

SAR TEST REPORT

Applicant HONOR Device Co., Ltd.
FCC ID 2AYGCRBN-NX3
Product Smart Phone
Model RBN-NX3
Report No. R2212A1292-S1V6
Issue Date March 16, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **IEEE 1528-2013, ANSI C95.1: 1992, IEEE C95.1: 1991**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Wei Fangying

Prepared by: Wei Fangying

Fan Guangchang

Approved by: Fan Guangchang

TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

Table of Contents

1	Test Laboratory.....	5
1.1	Notes of the Test Report	5
1.2	Test Facility	5
1.3	Testing Location.....	5
1.4	Laboratory Environment.....	5
2	Statement of Compliance	6
3	Description of Equipment Under Test	8
4	Test Specification, Methods and Procedures	11
5	Operational Conditions during Test	12
5.1	Test Positions.....	12
5.1.1	Against Phantom Head	12
5.1.2	Body Worn Configuration.....	12
5.1.3	Phablet SAR Test Considerations.....	13
5.2	Measurement Variability.....	14
5.3	Test Configuration	15
5.3.1	GSM Test Configuration	15
5.3.2	WCDMA Test Configuration	15
5.3.3	LTE Test Configuration	19
5.3.4	Additional Requirements for TDD LTE Specification.....	20
5.3.5	5G NR Test Configuration	23
5.3.6	Wi-Fi Test Configuration	24
5.3.7	Bluetooth Test Configuration.....	25
5.3.8	Downlink LTE CA specification	26
5.3.9	SAR Detection Mechanism Specification	30
5.3.10	Country Code Detection Mechanism	37
5.3.11	Tx Varying Transmission Test Cases and Test Proposal.....	38
5.3.12	Smart Transmit feature for RF Exposure compliance	38
6	SAR Measurements System Configuration	44
6.1	SAR Measurement Set-up	44
6.2	DASY5 E-field Probe System.....	45
6.3	SAR Measurement Procedure	46
7	Main Test Equipment.....	48
8	Tissue Dielectric Parameter Measurements & System Check	49
8.1	Tissue Verification	49
8.2	System Check	51
8.3	SAR System Validation	55
9	Normal and Maximum Output Power	56
9.1	GSM Mode	56
9.2	WCDMA Mode	60
9.3	LTE Mode.....	68
9.4	CA Mode	203

9.5	NR Mode	204
9.6	WLAN Mode.....	520
9.7	Bluetooth Mode	529
10	Measured and Reported (Scaled) SAR Results	530
10.1	EUT Antenna Locations	530
10.2	Measured SAR Results	532
10.3	Simultaneous Transmission Analysis	610
11	Measurement Uncertainty	616
ANNEX A: Test Layout.....		617
ANNEX B: System Check Results.....		619
ANNEX C: Highest Graph Results.....		669
ANNEX D: Probe Calibration Certificate (SN: 3677).....		742
ANNEX E: Probe Calibration Certificate (SN: 7543).....		764
ANNEX F: D750V3 Dipole Calibration Certificate.....		773
ANNEX G: D835V2 Dipole Calibration Certificate		781
ANNEX H: D1750V2 Dipole Calibration Certificate		789
ANNEX I: D1900V2 Dipole Calibration Certificate		797
ANNEX J: D2450V2 Dipole Calibration Certificate		805
ANNEX K: D2600V2 Dipole Calibration Certificate.....		813
ANNEX L: D3500V2 Dipole Calibration Certificate		819
ANNEX M: D5GHzV2 Dipole Calibration Certificate.....		825
ANNEX N: DAE4 Calibration Certificate (SN: 1291).....		839
ANNEX O: DAE4 Calibration Certificate (SN: 1692).....		842
ANNEX P: The EUT Appearance		845
ANNEX Q: Test Setup Photos		846

Version	Revision description	Issue Date
Rev.0	Initial issue of report.	February 17, 2023
Rev.1	Update information and data.	February 20, 2023
Rev.2	Add description in Page 615.	March 13, 2023
Rev.3	Update description.	March 14, 2023
Rev.4	Update description and data.	March 15, 2023
Rev.5	Update data.	March 15, 2023
Rev.6	Update description and data.	March 16, 2023
Note: This revised report (Report No.: R2212A1292-S1V6) supersedes and replaces the previously issued report (Report No.: R2212A1292-S1V5). Please discard or destroy the previously issued report and dispose of it accordingly.		

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Fan Guangchang
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: fanguangchang@ta-shanghai.com

1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for the EUT are as follows:

Table 1: Highest Reported SAR

Mode	Highest Reported SAR (W/kg)			
	1g SAR Head	1g SAR Body-worn (Separation 15mm)	1g SAR Hotspot (Separation 10mm)	Product Specific 10-g SAR (Separation 0mm)
GSM 850	0.15	0.18	0.20	N/A
GSM 1900	0.69	0.31	0.56	N/A
WCDMA Band II	0.67	0.45	0.55	N/A
WCDMA Band IV	0.69	0.31	0.57	N/A
WCDMA Band V	0.24	0.24	0.40	N/A
LTE FDD 2	0.92	0.40	0.65	2.99
LTE FDD 4	0.94	0.41	0.65	N/A
LTE FDD 5	0.22	0.22	0.46	N/A
LTE FDD 7	0.60	0.44	0.43	N/A
LTE FDD 12 (LTE FDD 17)	0.15	0.25	0.37	N/A
LTE FDD 13	0.14	0.23	0.28	N/A
LTE FDD 26	0.18	0.22	0.37	N/A
LTE TDD 38	0.73	0.24	0.33	N/A
LTE TDD 41	0.81	0.28	0.26	N/A
LTE FDD 66	0.91	0.44	0.76	N/A
NR n2	0.68	0.42	0.62	N/A
NR n7	0.56	0.19	0.42	N/A
NR n38	0.60	0.19	0.54	N/A
NR n41	0.70	0.23	0.52	N/A
NR n66	0.66	0.38	0.67	N/A
NR n78	0.80	0.37	0.22	N/A
Wi-Fi (2.4G)	0.10	0.38	0.56	N/A
Wi-Fi (5G)	0.54	0.37	0.61	1.90
Bluetooth	0.15	0.26	0.26	N/A

Date of Testing: January 4, 2023 ~February 6, 2023

Date of Sample Received: December 27, 2022

Note:

- The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (1.6 W/kg and 4.0 W/kg) specified in ANSI C95.1: 1992/IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.
- All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai)

Co., Ltd. based on interpretations and/or observations of test results. Measurement
Uncertainties were not taken into account and are published for informational purposes only.

Note:

1) The Highest Reported SAR are as follows:

Head (W/kg)	Body-worn (W/kg)	Hotspot (W/kg)	Product Specific 10-g SAR (W/kg)	Simultaneous Transmission Exposure Conditions (W/kg)
0.94	0.45	0.76	2.99	1.48 for 1g 3.32 for 10g

2) For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions the handset a minimum of 15mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

3) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):

- a) Main and Div Antenna SAR for LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range 699-716 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

3 Description of Equipment Under Test

Client Information

Applicant	HONOR Device Co., Ltd.
Applicant address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer	HONOR Device Co., Ltd.
Manufacturer address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

General Technologies

Application Purpose	Original Grant		
EUT Stage	Identical Prototype		
Model	RBN-NX3		
SN	AH7GCP2C12200033		
Hardware Version	HN1RBNM		
Software Version	6.1.0.100（C900E100R1P1）		
Antenna Type	Internal Antenna		
Device Class	B		
Support VOIP	VoLTE or pre-installed VOIP applications are considered.		
Wi-Fi Hotspot	Wi-Fi 2.4G Wi-Fi 5G U-NII-1&U-NII-3		
Power Class	GSM 850: 4 GSM 1900: 1 WCDMA Band II/IV/V: 3 LTE FDD 2/4/5/7/12/13/17/26/66: 3 LTE TDD 38: 3 LTE TDD 41: 2/3 NR n2/n7/n38/n66: 3 NR n41/n78: 2/3		
Power Level	GSM 850: level 5 GSM 1900: level 0 WCDMA Band II/IV/V: all up bits LTE FDD 2/4/5/7/12/13/17/26/66: max power LTE TDD 38/41: max power NR n2/n7/n38/41/n66/n78: max power		
EUT Accessory			
Accessory	Model	Manufacture	No.
Battery	HB496590EFW-F	Honor Device Co., Ltd. (Manufacturer: SCUD)	1
	HB496590EFW-F	Honor Device Co., Ltd. (Manufacturer: NVT)	2
	HB496590EFW	Honor Device Co., Ltd. (Manufacturer: NVT)	3
	HB496590EFW	Honor Device Co., Ltd.	4

		(Manufacturer: SCUD)	
Earphone	1293-3283-3.5mm-339	BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD.	1
	EPAB542-2WH05-DH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	2
	MEND1532B528C00	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.	3
Note: The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.			

Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)		
GSM	850	Voice(GMSK) GPRS(GMSK) EGPRS(GMSK,8PSK)	☐ Multi-slot Class:8-1UP	824 ~ 849		
	1900		☐ Multi-slot Class:10-2UP ☒ Multi-slot Class:12-4UP ☐ Multi-slot Class:33-4UP	1850 ~ 1910		
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No					
WCDMA	Band II	QPSK	HSDPA UE Category:14	1850 ~ 1910		
	Band IV		HSUPA UE Category:6	1710 ~ 1755		
	Band V		DC-HSDPA UE Category:24	824 ~ 849		
LTE	FDD 2	QPSK, 16QAM, 64QAM	Rel.14 /Category 13	1850 ~ 1910		
	FDD 4			1710 ~ 1755		
	FDD 5			824 ~ 849		
	FDD 7			2500 ~ 2570		
	FDD 12			699 ~ 716		
	FDD 13			777 ~ 787		
	FDD 17			704 ~ 716		
	FDD 26			814 ~ 849		
	TDD 38			2570 ~ 2620		
	TDD 41			2496 ~ 2690		
	FDD 66			1710 ~ 1780		
	Does this device support Carrier Aggregation (CA) ☒ Yes downlink only ☐ No					
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No					
NR	n2	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	/	1850 ~ 1910		
	n7			2500 ~ 2570		
	n38			2570 ~ 2620		
	n41			2496 ~ 2690		
	n66			1710 ~ 1780		
	n78			3300 ~ 3800		
Bluetooth	2.4G	Version 5.1 BR/EDR + LE		2402 ~2480		
Wi-Fi	2.4G	DSSS, OFDM	802.11b/g/n HT20	2412 ~ 2462		
		OFDM	802.11n HT40	2422 ~ 2452		
	5G	OFDM	802.11a/n HT20/ HT40/ ac VHT20/ VHT40/ VHT80	5150 ~ 5350 5470 ~ 5850		
			Does this device support MIMO ☐ Yes ☒ No			
Note: Radio equipment in band n78 is only allowed to operate from 3450 MHz to 3550 MHz for Subset 1; 3700 MHz to 3800 MHz for Subset 2 for the transmitter and receiver.						

4 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528- 2013, ANSI C95.1: 1992, IEEE C95.1: 1991, the following FCC Published RF exposure KDB procedures:

Reference Standards

KDB 248227 D01 802.11Wi-Fi SAR v02r02
KDB 447498 D01 General RF Exposure Guidance v06
KDB 648474 D04 Handset SAR v01r03
KDB 690783 D01 SAR Listings on Grants v01r03
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v02r05
KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06 Hotspot Mode v02r01

5 Operational Conditions during Test

5.1 Test Positions

5.1.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2013 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

5.1.2 Body Worn Configuration

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

5.1.3 Phablet SAR Test Considerations

For smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

- a) The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
- b) The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions. The 1-g SAR at 5 mm for UMPC mini-tablets is not required. When hotspot mode applies, product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold. The normal tablet procedures in KDB Publication 616217 are required when the overall diagonal dimension of the device is > 20.0 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Product specific 10-g SAR is also not required for the front (top) surface of larger form factor full size tablets. The more conservative normal tablet SAR results can be used to support phablet mode product specific 10-g SAR.
- c) The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions.

5.2 Measurement Variability

Per FCC KDB Publication 865664 D01, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

5.3 Test Configuration

5.3.1 GSM Test Configuration

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Output power of reductions:

Table 2: The allowed power reduction in the multi-slot configuration

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power (dB)
1	0
2	0 to 3,0
3	1,8 to 4,8
4	3,0 to 6,0

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

5.3.2 WCDMA Test Configuration

5.3.2.1 3G SAR Test Reduction Procedure

The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations modes according to output power, exposure conditions and device operating capabilities. Maximum output power is verified by applying the applicable versions of 3GPP TS 34.121.

5.3.2.2 Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest SAR configuration in 12.2 kbps RMC for head exposure.

5.3.2.3 Body-worn Accessory SAR

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the EUT with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the EUT, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC

5.3.2.4 Release 5 HSDPA Test Configuration

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the “Release 5 HSDPA Data Devices” section of this document, for the highest SAR body-worn accessory exposure configuration in 12.2 kbps RMC. EUT with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Table 3: Subtests for WCDMA Release 5 HSDPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.
Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

5.3.2.5 Release 6 HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the “Release 6 HSPA Data Devices” section of this document, for the highest body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the ‘WCDMA EUT’ and ‘Release 5 HSDPA Data Devices’ sections of this document

Table 4: Sub-Test 5 Setup for Release 6 HSUPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Figure 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

Table 5: HSUPA UE Category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCHTTI (ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592

4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	2	2 SF2 & 2	11484	5.76
	4	4	10	SF4	20000	2.00
7 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	22996	?
	4	4	10		20000	?
NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE Categories 1 to 6 supports QPSK only. UE Category 7 supports QPSK and 16QAM. (TS25.306-7.3.0)						

5.3.2.6 HSPA and DC-HSDPA Test Configuration

SAR test exclusion may apply to 3GPP Rel. 6 HSPA and Rel. 8 DC-HSDPA. When SAR measurement is required for HSPA or DC-HSDPA, a KDB inquiry is required to confirm that the wireless mode configurations in the test setup have remained stable throughout the SAR measurements. Without prior KDB confirmation to determine the SAR results are acceptable, a PAG is required for equipment approval.

SAR test exclusion for HSPA and DC-HSDPA is determined according to the following:

- 1) The HSPA procedures are applied to configure 3GPP Rel. 6 HSPA devices in the required sub-test mode(s) to determine SAR test exclusion.
- 2) SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.
- 3) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA or DC-HSDPA:
 - a) The output power measurement results and applicable release version(s) of 3GPP TS 34.121. Power measurement difficulties due to test equipment setup or availability must be resolved between the grantee and its test lab.
 - b) The power measurement results are in agreement with the individual device implementation and specifications. When Enhanced MPR (E-MPR) applies, the normal MPR targets may be modified according to the Cubic Metric (CM) measured by the device, which must be taken into consideration.
 - c) The UE category, operating parameters, such as the β and Δ values used to configure the device for testing, power setback procedures described in 3GPP TS 34.121 for the power measurements, and HSPA channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCI and AG index values.
- 4) When SAR measurement is required, the test configurations, procedures and power measurement results must be clearly described to confirm that the required test parameters are used, including E-TFCI and AG index stability and output power conditions.

Table 6: HS-DSCH UE Category

HS-DSCH category	Maximum number of HS-DSCH codes received	Minimum inter-TTI interval	Maximum number of bits of an HS-DSCH transport block received within an HS-DSCH TTI NOTE 1	Total number of soft channel bits	Supported modulations without MIMO operation or dual cell operation	Supported modulations with MIMO operation and without dual cell operation	Supported modulations with dual cell operation
Category 1	5	3	7298	19200	QPSK, 16QAM	Not applicable (MIMO not supported)	Not applicable (dual cell operation not supported)
Category 2	5	3	7298	28800			
Category 3	5	2	7298	28800			
Category 4	5	2	7298	38400			
Category 5	5	1	7298	57600			
Category 6	5	1	7298	67200			
Category 7	10	1	14411	115200			
Category 8	10	1	14411	134400			
Category 9	15	1	20251	172800			
Category 10	15	1	27952	172800			
Category 11	5	2	3630	14400	QPSK		
Category 12	5	1	3630	28800			
Category 13	15	1	35280	259200	QPSK, 16QAM, 64QAM		
Category 14	15	1	42192	259200			
Category 15	15	1	23370	345600	QPSK, 16QAM		
Category 16	15	1	27952	345600			
Category 17 NOTE 2	15	1	35280	259200	QPSK, 16QAM, 64QAM	–	
			23370	345600	–	QPSK, 16QAM	
Category 18 NOTE 3	15	1	42192	259200	QPSK, 16QAM, 64QAM	–	
			27952	345600	–	QPSK, 16QAM	
Category 19	15	1	35280	518400	QPSK, 16QAM, 64QAM		
Category 20	15	1	42192	518400			
Category 21	15	1	23370	345600	–	–	QPSK, 16QAM
Category 22	15	1	27952	345600			QPSK, 16QAM, 64QAM
Category 23	15	1	35280	518400			
Category 24	15	1	42192	518400			

5.3.3 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to

3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest Channel Bandwidth Standalone SAR Test Requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other Channel Bandwidth Standalone SAR Test Requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

5.3.4 Additional Requirements for TDD LTE Specification

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

TDD LTE Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table: Uplink-downlink configurations for uplink-downlink configurations and Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS) for Special subframe configurations.

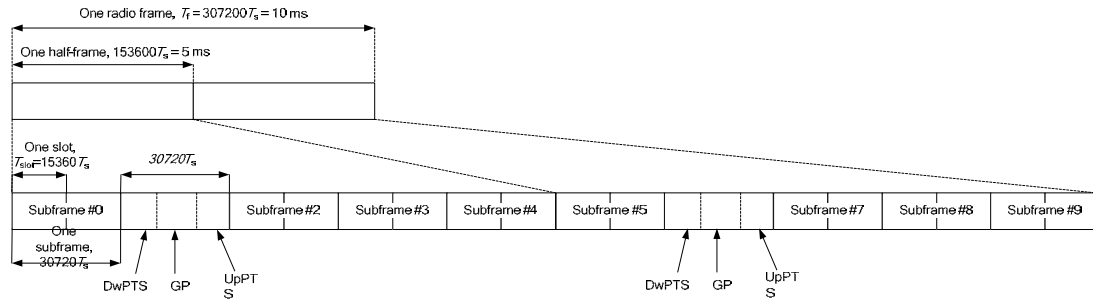


Figure 1: Frame structure type 2

Table 7: Configuration of Special Subframe (Lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 8: Uplink-Downlink Configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

According to Figure 1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below. The count of Uplink subframes are according to Table: Uplink-downlink configurations:

$$\text{Duty cycle} = (30720T_s \cdot \text{Ups} + \text{Uplink Component} \cdot \text{Specials}) / (307200T_s)$$

About the uplink component of Special subframes, we can figure out by Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS):

Uplink Component = UpPTS

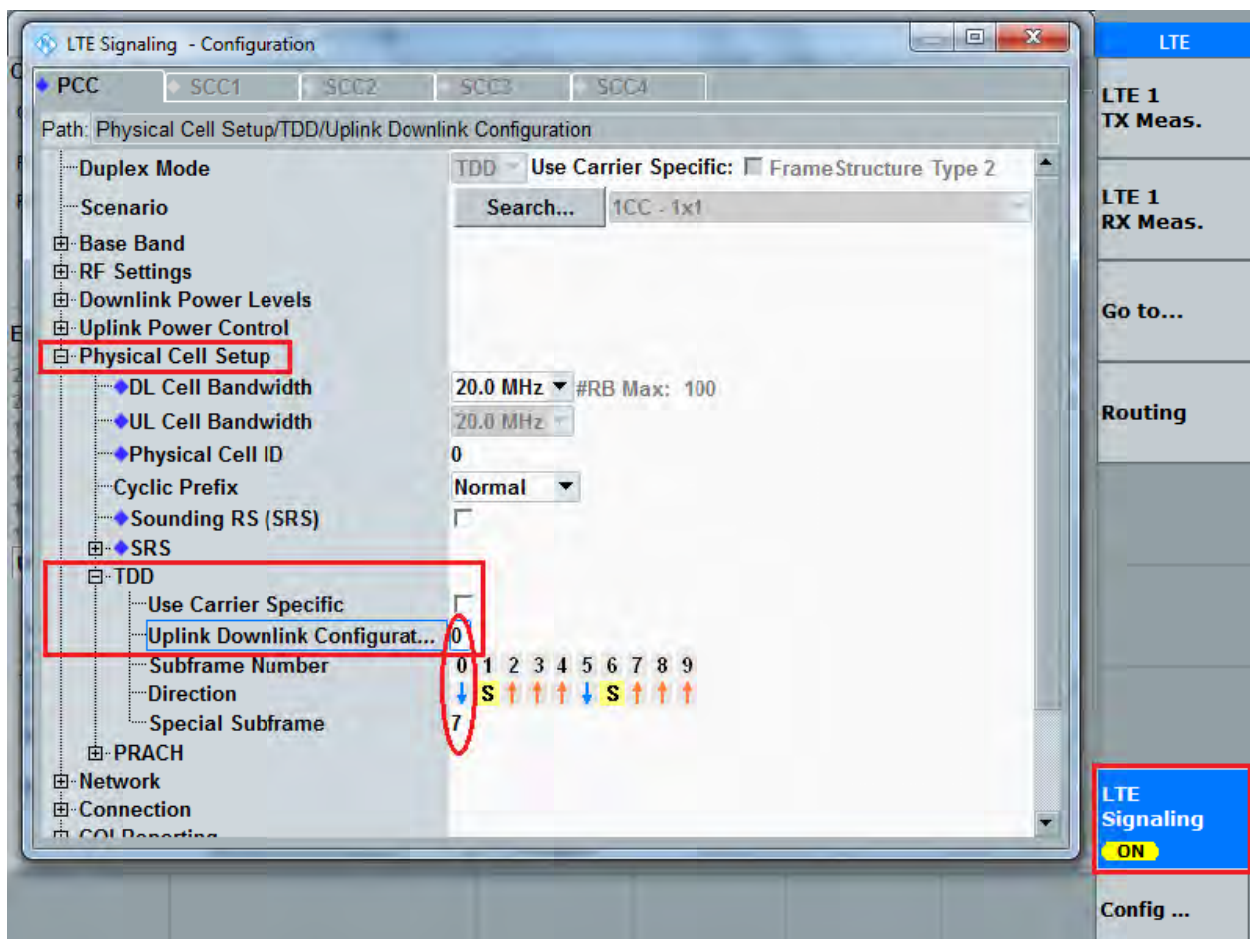
In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720Ts * \text{Ups}) + \text{UpPTS} * \text{Specials}] / (30720Ts)$$

And we can get different Duty cycles under different configurations:

Uplink-downlink configuration	Subframe number			Configuration of special subframe							
				Normal cyclic prefix in downlink				Extended cyclic prefix in downlink			
				Normal cyclic prefix in uplink		Extended cyclic prefix in uplink		Normal cyclic prefix in uplink		Extended cyclic prefix in uplink	
	D	S	U	configuration 0~4	configuration 5~9	configuration 0~4	configuration 5~9	configuration 0~3	configuration 4~7	configuration 0~3	configuration 4~7
0	2	2	6	61.43%	62.85%	61.67%	63.33%	61.43%	62.85%	61.67%	63.33%
1	4	2	4	41.43%	42.85%	41.67%	43.33%	41.43%	42.85%	41.67%	43.33%
2	6	2	2	21.43%	22.85%	21.67%	23.33%	21.43%	22.85%	21.67%	23.33%
3	6	1	3	30.71%	31.43%	30.83%	31.67%	30.71%	31.43%	30.83%	31.67%
4	7	1	2	20.71%	21.43%	20.83%	21.67%	20.71%	21.43%	20.83%	21.67%
5	8	1	1	10.71%	11.43%	10.83%	11.67%	10.71%	11.43%	10.83%	11.67%
6	3	2	5	51.43%	52.85%	51.67%	53.33%	51.43%	52.85%	51.67%	53.33%

SAR test Plan: For TDD LTE, SAR should be tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7 for Frame structure type



5.3.5 5G NR Test Configuration

For 5G NR SAR testing, due to test setup limitations, SAR testing for NR was performed using factory test mode software to establish the connection and perform SAR with 100% transmission.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

The worst-case scenario for all measurements is based on an engineering evaluation and QPSK was observed as the worst one and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM, 64QAM, 256QAM, and BPSK, modulations.

5.3.6 Wi-Fi Test Configuration

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; These are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the *initial test position(s)* by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The *initial test position(s)* is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the *reported SAR* for the *initial test position* is:

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the *initial test position* to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the *reported SAR* is ≤ 0.8 W/kg or all required test positions are tested.
 - ✧ For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
 - ✧ When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the *initial test position* and subsequent test positions, when the *reported SAR* is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the *reported SAR* is ≤ 1.2 W/kg or all required test channels are considered.
 - ✧ The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

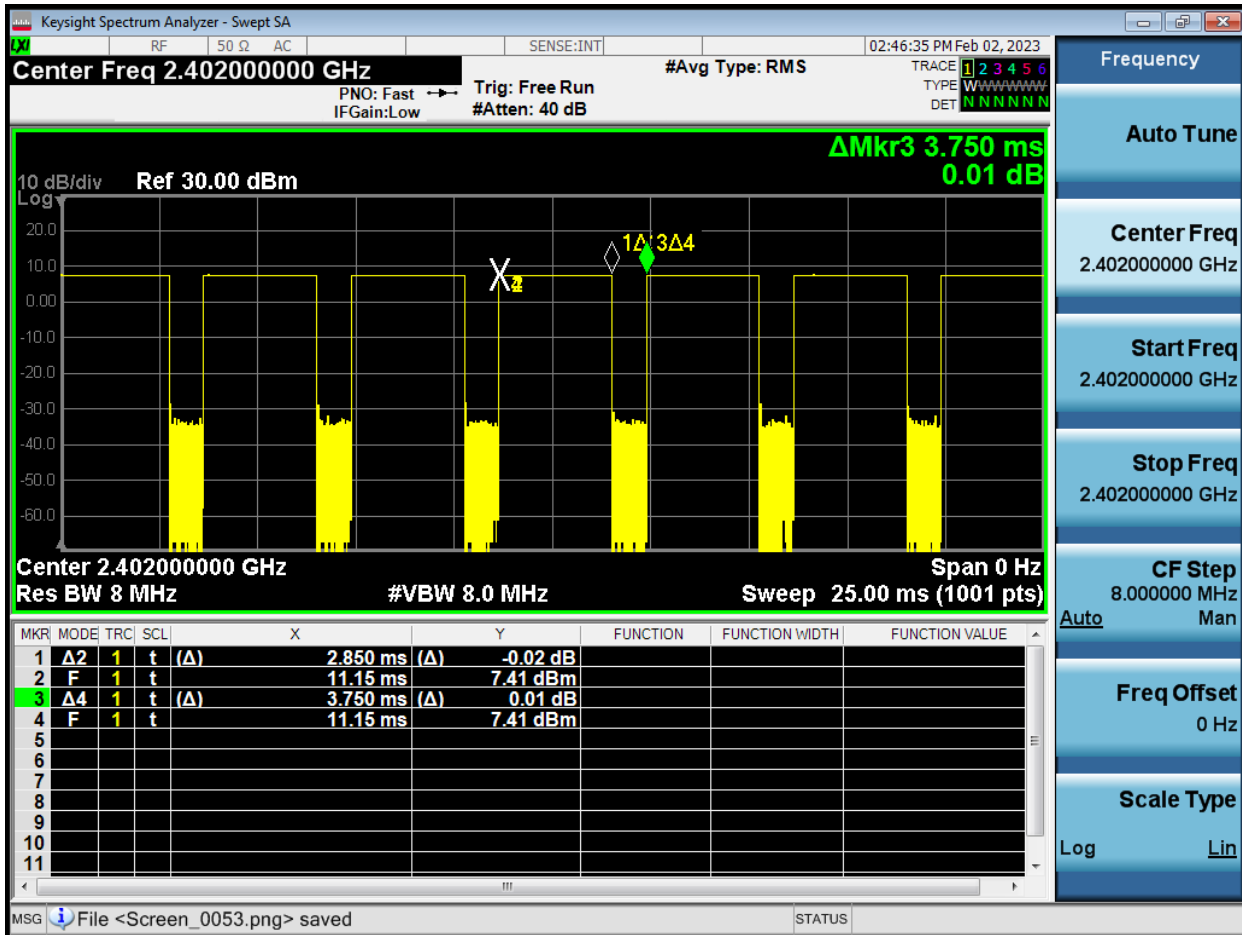
To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

5.3.7 Bluetooth Test Configuration

For Bluetooth SAR testing, Bluetooth engineering testing software installed on the EUT can provide continuous transmitting RF signal with maximum output power. And the CBT control the EUT operating with hopping off and data rate set for DH5.

The SAR measurement takes full account of the Bluetooth duty cycle and is reflected in the report, and the duty factor of the device is as follow:



Note: Duty factor= Ton (ms)/ T(on+off) (ms)=2.850/3.750*100%=76.0%

5.3.8 Downlink LTE CA specification

The device supports LTE advanced Rel. 13, Carrier Aggregation (CA) is supported for Intra band only, more details information is provided in tables below:

1) DL CA Intra band

E-UTRA CA configuration / Bandwidth combination set							
E-UTRA CA configuration	Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_2C	5	20				40	0
	10	15, 20					
	15	10, 15, 20					
	20	5, 10, 15, 20					

E-UTRA CA configuration / Bandwidth combination set							
E-UTRA CA configuration	Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_7A-7A	5	15				40	0
	10	10, 15					
	15	15, 20					
	20	20					
	5, 10, 15, 20	5, 10, 15, 20					
	5, 10, 15, 20	5, 10					
	10, 15, 20	10, 15, 20					
CA_66A-66A	5, 10, 15, 20	5, 10, 15, 20				40	0

2) DL CA Inter-band

E-UTRA CA configuration / Bandwidth combination set									
E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
	4			Yes	Yes	Yes	Yes		
	2			Yes	Yes			20	1
	4			Yes	Yes				
	2			Yes	Yes	Yes	Yes	40	2
	4			Yes	Yes	Yes	Yes		

CA_2A-5A	2			Yes	Yes	Yes	Yes	30	0
	5			Yes	Yes				
	2			Yes	Yes			20	1
	5			Yes	Yes				
CA_2A-7A	2			Yes	Yes	Yes	Yes	40	0
	7			Yes	Yes	Yes	Yes		
CA_2A-7A-7A	2			Yes	Yes	Yes	Yes	60	0
	7	See the CA_7A-7A Bandwidth combination set 1							
CA_2A-7C	2			Yes	Yes	Yes	Yes	60	0
	7	See the CA_7C Bandwidth combination set 1							
CA_2A-28A	2			Yes	Yes	Yes	Yes	40	0
	28			Yes	Yes	Yes	Yes		
CA_2A-66A	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes		
	2			Yes	Yes			20	1
	66			Yes	Yes				
	2			Yes	Yes	Yes	Yes	40	2
	66			Yes	Yes	Yes	Yes		
CA_4A-5A	4			Yes	Yes			20	0
	5			Yes	Yes				
	4			Yes	Yes	Yes	Yes	30	1
	5			Yes	Yes				
CA_4A-7A	4			Yes	Yes			30	0
	7			Yes	Yes	Yes	Yes		
	4			Yes	Yes	Yes	Yes	40	1
	7			Yes	Yes	Yes	Yes		
CA_4A-7C	4			Yes	Yes	Yes	Yes	60	0
	7	See CA_7C Bandwidth Combination Set 1							
CA_4A-28A	4			Yes	Yes	Yes	Yes	40	0
	28			Yes	Yes	Yes	Yes		
CA_5A-7A-66A-66A	5			Yes	Yes			70	0
	7				Yes	Yes	Yes		
	66	See CA_66A-66A Bandwidth Combination Set 0							
CA_5A-7C-66A-66A	5			Yes	Yes			90	0
	7	See CA_7C Bandwidth Combination Set 1							
	66	See CA_66A-66A Bandwidth Combination Set 0							
CA_5A-7C	5			Yes	Yes			50	0
	7	See CA_7C Bandwidth Combination Set 1							
CA_5A-7C-66A	5			Yes	Yes			70	0
	7	See CA_7C Bandwidth Combination Set 1							
	66			Yes	Yes	Yes	Yes		
CA_5A-66A	5			Yes	Yes			30	0
	66			Yes	Yes	Yes	Yes		

CA_5A-66A-66A	5			Yes	Yes			50	0
	66	See CA_66A-66A Bandwidth combination set 0							
CA_7C-28A	7	See CA_7C bandwidth combination set 2						60	0
	28			Yes	Yes	Yes	Yes		
	7	See CA_7C Bandwidth Combination Set 1						60	1
	28			Yes	Yes	Yes	Yes		
CA_7A-66A-66A	7			Yes	Yes	Yes	Yes	60	0
	66	See CA_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3							
CA_7C-66A-66A	7	See CA_7C Bandwidth Combination Set 1						80	0
	66	See CA_66A-66A Bandwidth Combination Set 0							
CA_28A-38A	28			Yes	Yes	Yes	Yes	40	0
	38			Yes	Yes	Yes	Yes		
CA_28A-66A	28			Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes		

E-UTRA CA configuration / Bandwidth combination set									
E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A-5A	2			Yes	Yes	Yes	Yes	50	0
	4			Yes	Yes	Yes	Yes		
	5			Yes	Yes				
CA_2A-4A-7A	2			Yes	Yes	Yes	Yes	60	0
	4			Yes	Yes	Yes	Yes		
	7			Yes	Yes	Yes	Yes		
CA_2A-4A-7C	2			Yes	Yes	Yes	Yes	80	0
	4			Yes	Yes	Yes	Yes		
	7	See CA_7C Bandwidth Combination Set 1							
CA_2A-4A-28A	2			Yes	Yes	Yes	Yes	60	0
	4			Yes	Yes	Yes	Yes		
	28			Yes	Yes	Yes	Yes		
CA_2A-5A-7A	2			Yes	Yes	Yes	Yes	50	0
	5			Yes	Yes				
	7				Yes	Yes	Yes		
CA_2A-5A-66A	2			Yes	Yes	Yes	Yes	50	0
	5			Yes	Yes				
	66			Yes	Yes	Yes	Yes		
CA_2A-7A-28A	2			Yes	Yes	Yes	Yes	60	0
	7			Yes	Yes	Yes	Yes		
	28			Yes	Yes	Yes	Yes		
CA_2A-7A-66A	2			Yes	Yes	Yes	Yes	60	0
	7			Yes	Yes	Yes	Yes		
	66			Yes	Yes	Yes	Yes		
CA_2A-28A-66A	2			Yes	Yes	Yes	Yes	60	0
	28			Yes	Yes	Yes	Yes		
	66			Yes	Yes	Yes	Yes		
CA_4A-7A-28A	4			Yes	Yes	Yes	Yes	60	0
	7			Yes	Yes	Yes	Yes		
	28			Yes	Yes	Yes	Yes		
CA_5A-7A-66A	5			Yes	Yes			50	0
	7				Yes	Yes	Yes		
	66			Yes	Yes	Yes	Yes		

Only yellow test -TCB workshop (April 2018)															
Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
2CC #1	CA_2C	N/A	No	3CC #1	CA_2A-4A-5A	N/A	No	4CC #1	CA_5A-7A-66A-66A	N/A	No	5CC #1	CA_5A-7C-66A-66A	N/A	No
2CC #2	CA_2A-4A	N/A	3CC #2	3CC #2	CA_2A-4A-7A	N/A	No	4CC #2	CA_2A-4A-7C	N/A	No	/	/	/	/
2CC #3	CA_2A-5A	N/A	3CC #3	3CC #3	CA_2A-5A-7A	N/A	No	4CC #3	CA_7C-66A-66A	N/A	5CC #1	/	/	/	/
2CC #4	CA_2A-7A	N/A	3CC #5	3CC #4	CA_2A-5A-66A	N/A	No	4CC #4	CA_5A-7C-66A	N/A	5CC #1	/	/	/	/
2CC #5	CA_2A-66A	N/A	3CC #6	3CC #5	CA_2A-7A-7A	N/A	No	/	/	/	/	/	/	/	/
2CC #6	CA_4A-5A	N/A	No	3CC #6	CA_2A-7A-66A	N/A	No	/	/	/	/	/	/	/	/
2CC #7	CA_4A-7A	N/A	3CC #2	3CC #7	CA_2A-7C	N/A	4CC #2	/	/	/	/	/	/	/	/
2CC #8	CA_5A-66A	N/A	3CC #9	3CC #8	CA_4A-7C	N/A	4CC #2	/	/	/	/	/	/	/	/
2CC #9	CA_66A-66A	N/A	3CC #10	3CC #9	CA_5A-7A-66A	N/A	4CC #1	/	/	/	/	/	/	/	/
2CC #10	CA_7A-7A	N/A	3CC #5	3CC #10	CA_5A-66A-66A	N/A	4CC #1	/	/	/	/	/	/	/	/
/	/	/	/	3CC #11	CA_7A-66A-66A	N/A	4CC #1	/	/	/	/	/	/	/	/
/	/	/	/	3CC #12	CA_5A-7C	N/A	5CC #1	/	/	/	/	/	/	/	/

For downlink carrier aggregation, SAR is not required for downlink carrier aggregation in active uplink maximum output power not more than 1/4dB higher than the maximum output power measured when downlink carrier aggregation inactive.

5.3.9 SAR Detection Mechanism Specification

This device support the receiver and hotspot detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios and provide enhanced user experience.

More details information followings:

WWAN Reduced power level table				
Antenna	Position	Receiver State	Hotspot State	Transmitting conditions
ANT0	Head	On	N/A	WWAN Only
		On	N/A	WWAN+WLAN2.4G/5G
	Body worn /Product-specific10g SAR	Off	N/A	WWAN Only
		Off	N/A	WWAN+WLAN2.4G/5G
	Hotspot	Off	On	WWAN Only
		Off	On	WWAN+WLAN2.4G/5G
ANT1	Head	On	N/A	WWAN Only
		On	N/A	WWAN+WLAN2.4G/5G
	Body worn /Product-specific10g SAR	Off	N/A	WWAN Only
		Off	N/A	WWAN+WLAN2.4G/5G
	Hotspot	Off	On	WWAN Only
		Off	On	WWAN+WLAN2.4G/5G

		Off	On	WWAN+WLAN2.4G/5G
ANT2	Head	On	N/A	WWAN Only
		On	N/A	WWAN+WLAN2.4G/5G
	Body worn /Product-specific10g SAR	Off	N/A	WWAN Only
		Off	N/A	WWAN+WLAN2.4G/5G
	Hotspot	Off	On	WWAN Only
		Off	On	WWAN+WLAN2.4G/5G
ANT3	Head	On	N/A	WWAN Only
		On	N/A	WWAN+WLAN2.4G/5G
	Body worn /Product-specific10g SAR	Off	N/A	WWAN Only
		Off	N/A	WWAN+WLAN2.4G/5G
	Hotspot	Off	On	WWAN Only
		Off	On	WWAN+WLAN2.4G/5G
ANT4	Head	On	N/A	WWAN Only
		On	N/A	WWAN+WLAN2.4G/5G
	Body worn /Product-specific10g SAR	Off	N/A	WWAN Only
		Off	N/A	WWAN+WLAN2.4G/5G
	Hotspot	Off	On	WWAN Only
		Off	On	WWAN+WLAN2.4G/5G
ANT5	Head	On	N/A	WWAN Only
		On	N/A	WWAN+WLAN2.4G/5G
	Body worn /Product-specific10g SAR	Off	N/A	WWAN Only
		Off	N/A	WWAN+WLAN2.4G/5G
	Hotspot	Off	On	WWAN Only
		Off	On	WWAN+WLAN2.4G/5G

WLAN Reduced power level table				
Antenna	Position	Receiver State	Hotspot State	Transmitting conditions
ANT7	Head	On	N/A	WLAN Only
		On	N/A	WWAN+WLAN2.4G/5G
	Body worn /Product-specific10g SAR	Off	N/A	WLAN Only
		Off	N/A	WWAN+WLAN2.4G/5G
	Hotspot	Off	On	WLAN Only
		Off	On	WWAN+WLAN2.4G/5G
ANT8	Head	On	N/A	WLAN Only
		On	N/A	WWAN+WLAN2.4G/5G
	Body worn /Product-specific10g SAR	Off	N/A	WLAN Only
		Off	N/A	WWAN+WLAN2.4G/5G
	Hotspot	Off	On	WLAN Only
		Off	On	WWAN+WLAN2.4G/5G

WWAN Reduced power level table

Mode	Band	Full Power	Antenna	Head (Receiver on)			Body worn & Product-specific 10g SAR (Receiver off)			Hotspot (Receiver off+ Hotspot on)		
				Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission	
					WWAN+ 2.4G WLAN	WWAN+ 5G WLAN		WWAN+ 2.4G WLAN	WWAN+ 5G WLAN		WWAN+ 2.4G WLAN	WWAN+ 5G WLAN
GSM (CS)	GSM 850	33.80	0	N/A	N/A	N/A	N/A	N/A	N/A	4.0	4.0	4.0
	GSM 1900	31.00	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		30.00	2	4.9	5.9	5.9	0.5	5.2	5.2	5.9	5.9	5.9
12.2kbps RMC	WCDMA B2	25.00	1	N/A	2.4	2.4	2.4	3.0	3.0	3.0	3.0	3.0
		24.00	2	8.9	9.9	9.9	4.0	8.8	8.8	9.9	9.9	9.9
	WCDMA B4	25.00	1	N/A	2.6	2.6	2.6	3.0	3.0	3.0	3.0	3.0
		24.00	2	2.0	5.5	5.5	2.6	7.4	7.4	7.4	7.4	7.4
	WCDMA B5	25.00	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LTE Bands	LTE B2	24.50	1	N/A	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
		23.50	2	7.4	8.4	8.4	2.4	7.2	7.2	7.4	7.4	7.4
	LTE B4	24.50	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
		23.50	2	2.9	3.9	3.9	0.9	5.7	5.7	5.7	5.7	5.7
	LTE B5	25.00	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LTE B7	23.50	1	N/A	2.0	2.0	1.6	2.0	2.0	2.0	2.0	2.0
		22.40	2	1.6	2.6	2.6	1.9	6.7	6.7	6.7	6.7	6.7
	LTE B12	25.00	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LTE B13	24.50	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LTE B17	24.80	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LTE B26	25.00	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LTE B38	24.50	5	3.0	4.0	4.0	0.5	4.6	4.6	4.6	4.6	4.6
		23.00	3	N/A	0.4	0.4	N/A	3.2	3.2	3.2	3.2	3.2
		22.00	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		20.90	2	N/A	N/A	N/A	N/A	2.2	2.2	2.2	2.2	2.2
	LTE B41(PC2)	26.20	5	2.7	3.7	3.7	0.4	5.2	5.2	5.2	5.2	5.2
		25.00	3	N/A	N/A	N/A	0.3	5.1	5.1	5.1	5.1	5.1
		24.00	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		22.90	2	N/A	N/A	N/A	N/A	3.6	3.6	3.6	3.6	3.6
	LTE B41(PC3)	24.00	5	2.1	3.1	3.1	N/A	4.6	4.6	4.6	4.6	4.6
		23.00	3	N/A	N/A	N/A	N/A	4.7	4.7	4.7	4.7	4.7
		21.50	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		20.50	2	N/A	N/A	N/A	N/A	2.8	2.8	2.8	2.8	2.8
	LTE B66	24.50	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
		23.50	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
SA Bands	NR B2	25.00	1	0.5	1.7	1.7	1.7	2.2	2.2	2.2	2.2	2.2
		24.00	2	8.1	9.1	9.1	3.3	8.1	8.1	9.1	9.1	9.1

	NR B7	24.00	1	0.5	3.2	3.2	3.2	3.7	3.7	3.7	3.7	3.7
		22.90	2	2.6	3.6	3.6	2.6	7.3	7.3	7.3	7.3	7.3
	NR B38	25.00	5	6.0	7.0	7.0	3.6	8.3	8.3	8.3	8.3	8.3
		23.50	3	1.4	2.4	2.4	3.3	8.1	8.1	8.1	8.1	8.1
		22.50	1	0.5	1.6	1.6	1.6	2.1	2.1	2.1	2.1	2.1
		21.40	2	1.0	2.0	2.0	1.7	6.4	6.4	6.4	6.4	6.4
	NR B41(PC2)	26.70	5	7.4	8.4	8.4	5.3	10.0	10.0	10.0	10.0	10.0
		25.50	3	3.3	4.3	4.3	5.1	10.0	10.0	10.0	10.0	10.0
		24.50	1	2.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0
		23.40	2	3.7	4.7	4.7	3.8	8.6	8.6	8.6	8.6	8.6
	NR B41(PC3)	24.00	5	4.7	5.7	5.7	2.6	7.3	7.3	7.3	7.3	7.3
		25.50	3	0.8	1.8	1.8	2.6	7.5	7.5	7.5	7.5	7.5
		24.50	1	N/A	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5
		23.40	2	1.3	2.3	2.3	1.4	6.2	6.2	6.2	6.2	6.2
	NR B66	25.00	1	0.5	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6
		24.00	2	4.5	5.5	5.5	1.7	6.5	6.5	6.5	6.5	6.5
	NR B78(PC2)	26.70	5	9.4	10.4	10.4	4.8	9.6	9.6	10.4	10.4	10.4
		26.00	4	0.5	1.0	1.0	4.9	9.6	9.6	9.6	9.6	9.6
		25.50	2	6.0	7.0	7.0	7.7	12.4	12.4	12.4	12.4	12.4
		24.50	3	1.5	2.5	2.5	5.1	9.9	9.9	9.9	9.9	9.9

NA: No power reduction.

WWAN Reduced power level table												
Mode	Band	Full Power	Antenna	Head (Receiver on)			Body worn &Product-specific 10g SAR(Receiver off)			Hotspot (Receiver off +Hotspot on)		
				Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission	
					WWAN+	WWAN+		WWAN+	WWAN+		WWAN+	WWAN+
					2.4G WLAN	5G WLAN		2.4G WLAN	5G WLAN		2.4G WLAN	5G WLAN
EN-DC (B2+N7)	LTE B2	24.5	1	N/A	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
	n 7	24.0	1	0.5	3.2	3.2	3.2	3.7	3.7	3.7	3.7	3.7
	LTE B2	23.5	2	7.4	8.4	8.4	2.4	7.2	7.2	7.4	7.4	7.4
	n 7	22.9	2	2.6	3.6	3.6	2.6	7.3	7.3	7.3	7.3	7.3
	LTE B2	23.5	2	7.4	8.4	8.4	2.4	7.2	7.2	7.4	7.4	7.4
	n 7	24.0	1	0.5	3.2	3.2	3.2	3.7	3.7	3.7	3.7	3.7
	LTE B2	24.5	1	N/A	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
	n 7	22.9	2	2.6	3.6	3.6	2.6	7.3	7.3	7.3	7.3	7.3
EN-DC (B66+N7)	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 7	24.0	1	0.5	3.2	3.2	3.2	3.7	3.7	3.7	3.7	3.7
	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 7	22.9	2	2.6	3.6	3.6	2.6	7.3	7.3	7.3	7.3	7.3

	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 7	24.0	1	0.5	3.2	3.2	3.2	3.7	3.7	3.7	3.7	3.7
	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 7	22.9	2	2.6	3.6	3.6	2.6	7.3	7.3	7.3	7.3	7.3
EN-DC (B66+N38)	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 38	25.0	5	6.0	7.0	7.0	3.6	8.3	8.3	8.3	8.3	8.3
	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 38	23.5	3	1.4	2.4	2.4	3.3	8.1	8.1	8.1	8.1	8.1
	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 38	21.4	2	1.0	2.0	2.0	1.7	6.4	6.4	6.4	6.4	6.4
	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 38	22.5	1	0.5	1.6	1.6	1.6	2.1	2.1	2.1	2.1	2.1
	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 38	25.0	5	6.0	7.0	7.0	3.6	8.3	8.3	8.3	8.3	8.3
	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 38	23.5	3	1.4	2.4	2.4	3.3	8.1	8.1	8.1	8.1	8.1
	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 38	21.4	2	1.0	2.0	2.0	1.7	6.4	6.4	6.4	6.4	6.4
	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 38	22.5	1	0.5	1.6	1.6	1.6	2.1	2.1	2.1	2.1	2.1
EN-DC (B7+N66)	LTE B7	23.5	1	N/A	2.0	2.0	1.6	2.0	2.0	2.0	2.0	2.0
	n 66	25.0	1	0.5	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6
	LTE B7	22.4	2	1.6	2.6	2.6	1.9	6.7	6.7	6.7	6.7	6.7
	n 66	24.0	2	4.5	5.5	5.5	1.7	6.5	6.5	6.5	6.5	6.5
	LTE B7	22.4	2	1.6	2.6	2.6	1.9	6.7	6.7	6.7	6.7	6.7
	n 66	25.0	1	0.5	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6
	LTE B7	23.5	1	N/A	2.0	2.0	1.6	2.0	2.0	2.0	2.0	2.0
	n 66	24.0	2	4.5	5.5	5.5	1.7	6.5	6.5	6.5	6.5	6.5
EN-DC (B2+N78)	LTE B2	24.5	1	N/A	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
	n 78	24.5	5	7.2	8.2	8.2	2.6	7.4	7.4	8.2	8.2	8.2
	LTE B2	24.5	1	N/A	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
	n 78	24.0	4	0.5	0.5	0.5	2.9	7.6	7.6	7.6	7.6	7.6
	LTE B2	24.5	1	N/A	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
	n 78	24.0	3	0.5	0.5	0.5	3.1	7.9	7.9	7.9	7.9	7.9
	LTE B2	24.5	1	N/A	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
	n 78	23.5	2	4.0	5.0	5.0	5.7	10.4	10.4	10.4	10.4	10.4
	LTE B2	23.5	2	7.4	8.4	8.4	2.4	7.2	7.2	7.4	7.4	7.4
	n 78	24.5	5	7.2	8.2	8.2	2.6	7.4	7.4	8.2	8.2	8.2
	LTE B2	23.5	2	7.4	8.4	8.4	2.4	7.2	7.2	7.4	7.4	7.4
	n 78	24.0	4	0.5	0.5	0.5	2.9	7.6	7.6	7.6	7.6	7.6

	LTE B2	23.5	2	7.4	8.4	8.4	2.4	7.2	7.2	7.4	7.4	7.4
	n 78	24.0	3	0.5	0.5	0.5	3.1	7.9	7.9	7.9	7.9	7.9
	LTE B2	23.5	2	7.4	8.4	8.4	2.4	7.2	7.2	7.4	7.4	7.4
	n 78	23.5	2	4.0	5.0	5.0	5.7	10.4	10.4	10.4	10.4	10.4
EN-DC (B5+N78)	LTE B5	25.0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	n 78	24.5	5	7.2	8.2	8.2	2.6	7.4	7.4	8.2	8.2	8.2
	LTE B5	25.0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	n 78	24.0	4	0.5	0.5	0.5	2.9	7.6	7.6	7.6	7.6	7.6
	LTE B5	25.0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	n 78	24.0	3	0.5	0.5	0.5	3.1	7.9	7.9	7.9	7.9	7.9
	LTE B5	25.0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	n 78	24.0	3	0.5	0.5	0.5	3.1	7.9	7.9	7.9	7.9	7.9
EN-DC (B7+N78)	LTE B7	23.5	1	N/A	2.0	2.0	1.6	2.0	2.0	2.0	2.0	2.0
	n 78	24.5	5	7.2	8.2	8.2	2.6	7.4	7.4	8.2	8.2	8.2
	LTE B7	23.5	1	N/A	2.0	2.0	1.6	2.0	2.0	2.0	2.0	2.0
	n 78	24.0	4	0.5	0.5	0.5	2.9	7.6	7.6	7.6	7.6	7.6
	LTE B7	23.5	1	N/A	2.0	2.0	1.6	2.0	2.0	2.0	2.0	2.0
	n 78	24.0	3	0.5	0.5	0.5	3.1	7.9	7.9	7.9	7.9	7.9
	LTE B7	23.5	1	N/A	2.0	2.0	1.6	2.0	2.0	2.0	2.0	2.0
	n 78	23.5	2	4.0	5.0	5.0	5.7	10.4	10.4	10.4	10.4	10.4
	LTE B7	22.4	2	1.6	2.6	2.6	1.9	6.7	6.7	6.7	6.7	6.7
	n 78	24.5	5	7.2	8.2	8.2	2.6	7.4	7.4	8.2	8.2	8.2
	LTE B7	22.4	2	1.6	2.6	2.6	1.9	6.7	6.7	6.7	6.7	6.7
	n 78	24.0	4	0.5	0.5	0.5	2.9	7.6	7.6	7.6	7.6	7.6
	LTE B7	22.4	2	1.6	2.6	2.6	1.9	6.7	6.7	6.7	6.7	6.7
	n 78	24.0	3	0.5	0.5	0.5	3.1	7.9	7.9	7.9	7.9	7.9
	LTE B7	22.4	2	1.6	2.6	2.6	1.9	6.7	6.7	6.7	6.7	6.7
	n 78	23.5	2	4.0	5.0	5.0	5.7	10.4	10.4	10.4	10.4	10.4
EN-DC (B66+N78)	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 78	24.5	5	7.2	8.2	8.2	2.6	7.4	7.4	8.2	8.2	8.2
	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 78	24.0	4	0.5	0.5	0.5	2.9	7.6	7.6	7.6	7.6	7.6
	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 78	24.0	3	0.5	0.5	0.5	3.1	7.9	7.9	7.9	7.9	7.9
	LTE B66	24.5	1	N/A	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.0
	n 78	23.5	2	4.0	5.0	5.0	5.7	10.4	10.4	10.4	10.4	10.4
	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 78	24.5	5	7.2	8.2	8.2	2.6	7.4	7.4	8.2	8.2	8.2
	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 78	24.0	4	0.5	0.5	0.5	2.9	7.6	7.6	7.6	7.6	7.6

	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 78	24.0	3	0.5	0.5	0.5	3.1	7.9	7.9	7.9	7.9	7.9
	LTE B66	23.5	2	3.3	4.3	4.3	1.0	5.8	5.8	5.8	5.8	5.8
	n 78	23.5	2	4.0	5.0	5.0	5.7	10.4	10.4	10.4	10.4	10.4

NA: No power reduction.

WLAN Reduced power level table									
Mode	Band	Full Power	Antenna	Head(Receiver on)		Body worn &Product-specific 10g SAR(Receiver off)		Hotspot(Receiver off)	
				Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Standalone	Simultaneous transmission
					WWAN+ 2.4/5G WLAN		WWAN+ 2.4/5G WLAN		WWAN+ 2.4/5G WLAN
2.4G	802.11b CH1-11	19.0	7	3.0	3.0	N/A	N/A	1.0	1.0
	802.11g CH1-11	19.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT20 CH1-11	19.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT40 CH3-9	18.0		2.0	2.0	N/A	N/A	N/A	N/A
5G U-NII-1	802.11a CH36-48	18.0	8	3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT20 CH36-48	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT40 CH38-46	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11acVHT20 CH36-48	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11acVHT40 CH38-46	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11acVHT80 CH42	12.5		N/A	N/A	N/A	N/A	N/A	N/A
5G U-NII-2A	802.11a CH52-64	18.0	8	3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT20 CH52-64	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT40 CH54-62	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11acVHT20 CH52-64	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11acVHT40 CH54-62	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11acVHT80 CH58	10.5		N/A	N/A	N/A	N/A	N/A	N/A
5G U-NII-2C	802.11a CH100-144	18.0	8	3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT20 CH100-144	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT40 CH102-142	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11ac VHT20 CH100-144	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11acVHT40 CH102-142	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11ac VHT80 CH106-138	17.0		2.0	2.0	N/A	N/A	N/A	N/A
5G U-NII-3	802.11a CH149-165	18.0	8	3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT20 CH149-165	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11n HT40 CH151-159	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11 ac VHT20 CH149-165	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11 acVHT40 CH151-159	18.0		3.0	3.0	N/A	N/A	1.0	1.0
	802.11 acVHT80 CH155	16.0		1.0	1.0	N/A	N/A	N/A	N/A

NA: No power reduction.

5.3.10 Country Code Detection Mechanism

The device uses the mobile country code (MCC) to indicate whether the users in CE countries or FCC countries. The selection between CE countries and FCC countries power levels is based on the country code detection mechanism. It can determine the countries where users are and set the relevant power level for Wi-Fi antennas accordingly.

Table: Summary of country code detection mechanism

Antenna	MCC OF CE COUNTRY (CE standard)	MCC OF FCC COUNTRY (FCC standard)
4G second ant (LTE B7/B38)	Power Level A1	Power Level B1
4G main ant (LTE B7/B38)	Power Level A2	Power Level B2
Wi-Fi 2.4G Ant	Power Level A3	Power Level B3
Wi-Fi 5G Ant	Power Level A4	Power Level B4

Table: Bands supporting country code detection mechanism

Main antenna power level(dBm)		
Ant/Band	CE countries	FCC countries
LTE Band 7	23	23
LTE Band 38	23.5	23.5
Second antenna power level(dBm)		
LTE Band 7	23	23
LTE Band 38	23.5	23.5
WiFi antenna power level(dBm)		
2.4G- wifi ant	17	15
5G- wifi ant	16.5	13

Summary test plan:

For conducted power test, both the full power level and reduced power level will be tested by setting different MCC to validate that the country code detection mechanism works.

For FCC SAR test,

- 1) Standalone FCC SAR of 4G second ant is evaluated at power level B1;(FCC mobile country code)
- 2) Standalone FCC SAR of 4G main ant is evaluated at power level B2; (FCC mobile country code)
- 3) Standalone FCC SAR of Wi-Fi 2.4G ant is evaluated at power level B3; (FCC mobile country code)
- 4) Standalone FCC SAR of Wi-Fi 5G ant evaluated at power level B4;(FCC mobile country code)

5.3.11 Tx Varying Transmission Test Cases and Test Proposal

To validate time averaging feature and demonstrate the compliance in Tx varying transmission conditions:

1. During a time-varying Tx power transmission: To prove that the Smart Transmit feature accounts for Tx power variations in time accurately.
2. During a call disconnect and re-establish scenario: To prove that the Smart Transmit feature accounts for history of past Tx power transmissions accurately.
3. During technology/band handover: To prove that the Smart Transmit feature functions correctly during transitions in technology/band.
4. During DSI (Device State Index) change: To prove that the Smart Transmit feature functions correctly during transition from one device state (DSI) to another.
5. During antenna (or beam) switch: To prove that the Smart Transmit feature functions correctly during transitions in antenna (such as AsDiv scenario) or beams (different antenna array configurations).
6. SAR exposure switching between two active radios (radio1 and radio2): To prove that the Smart Transmit feature functions correctly and ensures total RF exposure compliance when exposure varies among SAR_radio1 only, SAR_radio1 + SAR_radio2, and SAR_radio2 only scenarios.

5.3.12 Smart Transmit feature for RF Exposure compliance

The FCC RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window for SAR (transmit frequency ≤ 6 GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

The purpose of the Part 1 test in this report is to demonstrate that the device meets the FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels. The parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit Feature.

WLAN/BT operations are not enabled with Smart Transmit.

Term	Description
P_{limit}	The time-averaged RF power which corresponds to SAR_design_target.
P_{max}	Maximum tune up output power
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainties.
SAR Char	P_{limit} for all the technologies/bands for all applicable DSI

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} for frequencies < 6 GHz. P_{limit} and P_{reserve} are loaded via Embedded File System (EFS) onto the EUT.

When the wireless device operates at a power higher than “Tx power at SAR design target” power, The reserve_power_margin has to revert to a lower power (reserve Tx power) to maintain

time-average Tx power that is less than or equal to Tx_power_at_SAR_design_target.

Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI).

DSI and Corresponding Exposure Scenarios

Scenario	Description
DSI8	Receiver on(Standalone)
DSI5	Receiver on(WWAN+WLAN)
DSI3	Receiver off(Standalone)
DSI9	Receiver off(WWAN+WLAN)
DSI13	Hotspot on

< P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

Band	Antenna	Head(Receiver on)			Body worn & Product-specific 10g SAR (Receiver off)			Hotspot (Receiver off + Hotspot on)			Pmax*
		Stand alone	Simultaneous transmission		Stand alone	Simultaneous transmission		Stand alone	Simultaneous transmission		
			WWAN+	WWAN+		WWAN+	WWAN+				
			2.4G WLAN	5G WLAN		2.4G WLAN	5G WLAN				
		DSI 8	DSI 5	DSI 5	DSI 3	DSI 9	DSI 9	DSI 13	DSI 13	DSI 13	
GSM 850	0	32.3	32.3	32.3	32.3	32.3	32.3	28.3	28.3	28.3	32.3
GSM 1900	1	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
	2	23.6	22.6	22.6	28.0	23.3	23.3	22.6	22.6	22.6	28.5
WCDMA B2	1	23.5	21.1	21.1	21.1	20.5	20.5	20.5	20.5	20.5	23.5
	2	13.6	12.6	12.6	18.5	13.7	13.7	12.6	12.6	12.6	22.5
WCDMA B4	1	23.5	20.9	20.9	20.9	20.5	20.5	20.5	20.5	20.5	23.5
	2	20.5	17.0	17.0	19.9	15.1	15.1	15.1	15.1	15.1	22.5
WCDMA B5	0	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
LTE B2	1	23.0	22.2	22.2	22.2	21.5	21.5	21.5	21.5	21.5	23.0
	2	14.6	13.6	13.6	19.6	14.8	14.8	14.6	14.6	14.6	22.0
LTE B4	1	23.0	22.0	22.0	22.0	21.5	21.5	21.0	21.0	21.0	23.0
	2	19.1	18.1	18.1	21.1	16.3	16.3	16.3	16.3	16.3	21.1
LTE B5	0	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
LTE B7	1	22.0	20.0	20.0	20.4	20.0	20.0	20.0	20.0	20.0	22.0
	2	19.3	18.3	18.3	19.0	14.2	14.2	14.2	14.2	14.2	19.3
LTE B12	0	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
LTE B13	0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
LTE B17	0	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
LTE B26	0	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
LTE B38	5	20.0	19.0	19.0	22.5	18.4	18.4	18.4	18.4	18.4	22.5
	3	21.5	21.1	21.1	21.5	18.3	18.3	18.3	18.3	18.3	21.5
	1	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
	2	19.4	19.4	19.4	19.4	17.2	17.2	17.2	17.2	17.2	19.4

LTE B41 (PC2)	5	22.0	21.0	21.0	24.3	19.5	19.5	19.5	19.5	19.5	24.3
	3	23.5	23.5	23.5	23.2	18.4	18.4	18.4	18.4	18.4	23.5
	1	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
	2	21.4	21.4	21.4	21.4	17.8	17.8	17.8	17.8	17.8	21.4
LTE B41 (PC3)	5	20.4	19.4	19.4	22.5	17.9	17.9	17.9	17.9	17.9	22.5
	3	21.5	21.5	21.5	21.5	16.8	16.8	16.8	16.8	16.8	21.5
	1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2	19.0	19.0	19.0	19.0	16.2	16.2	16.2	16.2	16.2	19.0
LTE B66	1	23.0	22.0	22.0	22.0	21.5	21.5	21.0	21.0	21.0	23.0
	2	18.7	17.7	17.7	21.0	16.2	16.2	16.2	16.2	16.2	21.0
NR B2	1	23.0	21.8	21.8	21.8	21.3	21.3	21.3	21.3	21.3	23.0
	2	14.4	13.4	13.4	19.2	14.4	14.4	13.4	13.4	13.4	19.2
NR B7	1	22.0	19.3	19.3	19.3	18.8	18.8	18.8	18.8	18.8	22.0
	2	18.8	17.8	17.8	18.8	14.1	14.1	14.1	14.1	14.1	18.8
NR B38	5	17.5	16.5	16.5	19.9	15.2	15.2	15.2	15.2	15.2	19.9
	3	20.6	19.6	19.6	18.7	13.9	13.9	13.9	13.9	13.9	20.6
	1	20.5	19.4	19.4	19.4	18.9	18.9	18.9	18.9	18.9	20.5
	2	18.9	17.9	17.9	18.2	13.5	13.5	13.5	13.5	13.5	18.9
NR B41 (PC2)	5	17.8	16.8	16.8	19.9	15.2	15.2	15.2	15.2	15.2	19.9
	3	20.7	19.7	19.7	18.9	14.0	14.0	14.0	14.0	14.0	20.7
	1	20.5	19.5	19.5	19.5	19.0	19.0	19.0	19.0	19.0	20.5
	2	18.2	17.2	17.2	18.1	13.3	13.3	13.3	13.3	13.3	18.2
NR B41 (PC3)	5	17.8	16.8	16.8	19.9	15.2	15.2	15.2	15.2	15.2	19.9
	3	20.7	19.7	19.7	18.9	14.0	14.0	14.0	14.0	14.0	20.7
	1	21.5	19.5	19.5	19.5	19.0	19.0	19.0	19.0	19.0	21.5
	2	18.2	17.2	17.2	18.1	13.3	13.3	13.3	13.3	13.3	18.2
NR B66	1	23.0	21.5	21.5	21.5	20.9	20.9	20.9	20.9	20.9	23.0
	2	18.0	17.0	17.0	20.8	16.0	16.0	16.0	16.0	16.0	20.8
NR B78 (PC2)	5	15.8	14.8	14.8	20.4	15.6	15.6	14.8	14.8	14.8	20.4
	4	24.0	23.5	23.5	19.6	14.9	14.9	14.9	14.9	14.9	24.0
	2	18.0	17.0	17.0	16.3	11.6	11.6	11.6	11.6	11.6	18.0
	3	21.5	20.5	20.5	17.9	13.1	13.1	13.1	13.1	13.1	21.5
NR B78 (PC3)	5	15.8	14.8	14.8	20.4	15.6	15.6	14.8	14.8	14.8	20.4
	4	22.0	22.0	22.0	19.6	14.9	14.9	14.9	14.9	14.9	22.0
	2	18.0	17.0	17.0	16.3	11.6	11.6	11.6	11.6	11.6	18.0
	3	22.0	22.0	22.0	19.4	14.6	14.6	14.6	14.6	14.6	22.0

Note: 1. When $P_{\max} < P_{\text{limit}}$, the DUT will operate at a power level up to $P_{\max}$.

2. $P_{\max}$ is used for RF tune up procedure. The maximum allowed output power is equal to $P_{\max}$ + device uncertainty.

5G NR + LTE + WLAN + BT Sim-Tx analysis:

In 5G NR + LTE + WLAN + BT, 5G NR and LTE transmission are managed and controlled by Qualcomm Smart Transmit, while the RF exposure from WLAN and BT radios is managed using

legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1g SAR and 10g SAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR and $B \leq 1.0$.

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

if $A + C \leq 1.0$ and $B + C \leq 1.0$ can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ".

Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Band	Test scenario	Antenna	BW	Test Position	Dist. (mm)	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	worst case radio config 1g measured at P _{limit} (W/kg)
GSM 1900	time-varying Tx power transmission	ANT2	-	Top Edge	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	0.232
WCDMA IV		ANT2	-	Top Edge	10	RMC	Hotspot on	-	-	1413/1732.6	0.123
WCDMA II		ANT2	-	Top Edge	10	RMC	Hotspot on	-	-	9400/1880	0.228
LTE 2		ANT2	20MM	Top Edge	10	QPSK	Hotspot on	1	0	18900/1880	0.324
LTE 41 PC3		ANT5	20MM	Right Edge	10	QPSK	Hotspot on	50%	25	40185/2549.5	0.187
n38		ANT5	20MM	Right cheek	0	DFT-s-OFDM QPSK	Receiver on	50%	12	516000/2580	0.153
n78 PC3		ANT5	100MM	Left cheek	0	DFT-s-OFDM QPSK	Receiver on	50%	67	633332/3500	0.523
		ANT5	100MM	Left cheek	0	DFT-s-OFDM QPSK	WWAN+WLAN Receiver on	50%	67	633332/3500	0.398
LTE 41 PC3	Call Drop	ANT5	20MM	Right Edge	10	QPSK	Hotspot on	50%	25	40185/2549.5	0.187
WCDMA IV	Tech/band	ANT2	-	Top Edge	10	RMC	Hotspot on	-	-	1413/1732.6	0.123
LTE 2	switch	ANT2	20MM	Top Edge	10	QPSK	Hotspot on	1	0	18900/1880	0.324
WCDMA IV	Change Power Reduction	ANT2	-	Back Side	15	RMC	Receiver off	-	-	1413/1732.6	0.196
		ANT2	-	Back Side	10	RMC	Hotspot on	-	-	1413/1732.6	0.080
LTE 66	SARvsSAR	ANT2	20MM	Right cheek	0	QPSK	Receiver on	1	0	132322/1745	0.677
n78 PC3		ANT5	20MM	Right cheek	0	DFT-s-OFDM QPSK	Receiver on	50%	67	633332/3500	0.231

Time-varying Tx power measurement results

The purpose of the time-varying Tx power measurement is to demonstrate the effectiveness of power limiting enforcement and that the time- averaged Tx power when represented in time-averaged 1g SAR or 1g SAR values does not exceed FCC limit as shown in Eq. (1a) and (1b), rewritten below:

$$1g \text{ or } 10g \text{ SAR (t)} = \frac{\text{conducted Tx power(t)}}{\text{conducted Tx power P}_{\text{limit}}} * 1g \text{ or } 10g \text{ SAR P}_{\text{limit}} \quad (1a)$$

$$\frac{\frac{1}{T_{\text{SAR}}} \int_{t-T_{\text{SAR}}}^{t_1} 1g \text{ or } 10g \text{ SAR (t)} dt}{\text{FCC SAR limit}} \leq 1 \quad (1b)$$

where, conducted Tx power (t), conducted Tx power P_{limit} , and 1g or 10g SAR P_{limit} correspond to the measured instantaneous conducted Tx power, measured conducted Tx power at P_{limit} , and measured 1g SAR and 1g SAR values at P_{limit} reported in Part 1 test.

The conducted Tx power measurement for all selected configurations are reported in this section. In all the conducted Tx power plots, the dotted line represents the requested power by callbox (test sequence 1 or test sequence 2), the blue curve represents the instantaneous conducted Tx power measured using power meter, the green curve represents time- averaged power and red line represents the conducted power limit that corresponds to FCC limit of 1.6 W/kg for 1g SAR or 1.6 W/kg for 1g SAR.

Similarly, in all the 1g or 1g SAR plots (when converted using Eq. (1a)), the green curve represents the 100s/60s-time averaged 1g SAR or 1g SAR value calculated based on instantaneous 1g SAR or 1g SAR ; and the red line limit represents the FCC limit of 1.6 W/kg for 1g SAR or 1.6 W/kg for 1g SAR .

RF Exposure measurement:

Demonstrate the total RF exposure averaged over predefined time windows does not exceed FCC's SAR and PD limits, through time-averaged SAR and PD measurements for only scenario 1 to add confidence in the Smart Transmit feature validation, while avoiding the complexity in SAR/PD measurement (in particular, for scenario 3 requiring change in SAR probe calibration file to accommodate different bands and/or tissue simulating liquid).

For $f < 6$ transmission only (Scenario 1): measure instantaneous SAR versus time and demonstrate total time-averaged RF exposure is less than 1.0 at all times.

$$1g \text{ or } 10g \text{ SAR (t)} = \frac{\text{point SAR(t)}}{\text{point SAR}_{\text{P}_{\text{limit}}}} * 1g \text{ or } 10g \text{ SAR P}_{\text{limit}} \quad (2a)$$

$$\frac{\frac{1}{T_{\text{SAR}}} \int_{t-T_{\text{SAR}}}^{t_1} 1g \text{ or } 10g \text{ SAR (t)} dt}{\text{FCC SAR limit}} \leq 1 \quad (2 b)$$

Change in technology and band

This test is to demonstrate the correct power control by Smart Transmit during technology switches and/or band handovers.

Similar to the change in call, to validate the continuity of RF exposure

limiting during the transition, the technology and band handover needs to be performed when

EUT's Tx power is at P_{reserve} level (i.e., during Tx power enforcement) to make sure that the EUT's

Tx power from previous $P_{reserve}$ level to the new $P_{reserve}$ level (corresponding to new technology/band). As described in Section 2, the P_{limit} could vary with technology and band, but the instantaneous Tx power for a given band could be converted in 1g or 10g SAR exposure using Eq. (2a). Thus, the equations (1a) and (1b) can be written as follows for transmission scenario having change in technology/band,

$$1g \text{ or } 10g \text{ SAR}_1(t) = \frac{\text{conducted\_Tx\_power\_1}(t)}{\text{conducted\_Tx\_power\_Plimit\_1}} * 1g \text{ or } 10g \text{ SAR } P_{limit\_1} \quad (3a)$$

$$1g \text{ or } 10g \text{ SAR}_2(t) = \frac{\text{conducted\_Tx\_power\_2}(t)}{\text{conducted\_Tx\_power\_Plimit\_2}} * 1g \text{ or } 10g \text{ SAR } P_{limit\_2} \quad (3b)$$

$$\frac{\frac{1}{T1_{SAR}} \left[\int_{t-T1_{SAR}}^{t1} 1g \text{ or } 10g \text{ SAR}_1(t) dt + \int_{t-T2_{SAR}}^{t1} 1g \text{ or } 10g \text{ SAR}_2(t) dt \right]}{1g \text{ or } 10g \text{ SAR } P_{limit}} \leq 1 \quad (3c)$$

where, conducted_Tx_power_1(t), conducted_Tx_power_Plimit_1, and 1g or 1g SAR Plimit_1 correspond to the measured instantaneous conducted Tx power, measured conducted Tx power at P_{limit} , and measured 1g SAR or 1g SAR value at P_{limit} of technology 1/ band 1; conducted_Tx_power_2(t), conducted_Tx_power_Plimit_2(t), and 1g or 1g SAR Plimit_2 correspond to the measured instantaneous conducted Tx power, measured conducted Tx power at P_{limit} , and measured 1g SAR or 1g SAR value at P_{limit} of technology 2/band 2. Transition from technology 1/ band 1 to the technology 2/ band 2 happens at time- instant 't1'.

Change in time window

This test is to demonstrate the correct power control by Smart Transmit during the change in averaging time window when a specific band handover occurs. FCC specifies time-averaging windows of 100s for Tx frequency < 3GHz, and 60s for Tx frequency between 3GHz and 6GHz. Similar to the change in technology and band, to validate the continuity of RF exposure limiting during the transition, the band handover test needs to be performed when EUT handovers from operation band less than 3GHz to greater than 3GHz or vice versa.

$$1g \text{ or } 10g \text{ SAR}_1(t) = \frac{\text{conducted\_Tx\_power\_1}(t)}{\text{conducted\_Tx\_power\_Plimit\_1}} * 1g \text{ or } 10g \text{ SAR } P_{limit\_1} \quad (4a)$$

$$1g \text{ or } 10g \text{ SAR}_2(t) = \frac{\text{conducted\_Tx\_power\_2}(t)}{\text{conducted\_Tx\_power\_Plimit\_2}} * 1g \text{ or } 10g \text{ SAR } P_{limit\_2} \quad (4b)$$

$$\frac{\frac{1}{T1_{SAR}} \left[\int_{t-T1_{SAR}}^{t1} 1g \text{ or } 10g \text{ SAR}_1(t) dt \right] + \frac{1}{T2_{SAR}} \left[\int_{t-T2_{SAR}}^{t1} 1g \text{ or } 10g \text{ SAR}_2(t) dt \right]}{1g \text{ or } 10g \text{ SAR } P_{limit}} \leq 1 \quad (4c)$$

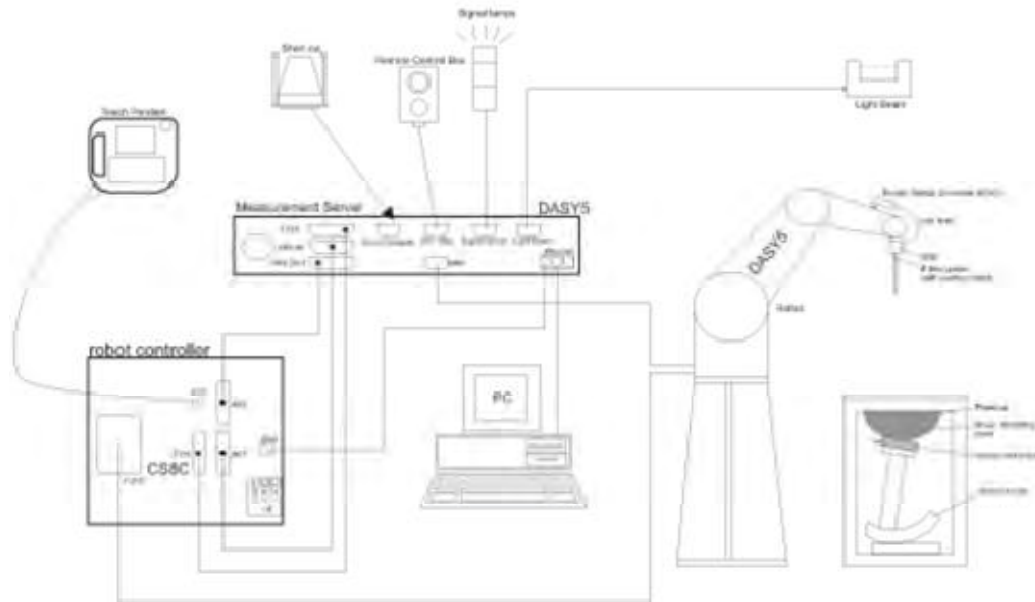
where, conducted_Tx_power_1(t), conducted_Tx_power_Plimit_1, and 1g or 10g SAR Plimit_1 correspond to the instantaneous Tx power, conducted Tx power at P_{limit} , and compliance 1g or 10g SAR values of band 1 at P_{limit_1} ; Conducted_Tx_power_2(t), conducted_Tx_power_Plimit_2, and 1g or 10g SAR Plimit_2 correspond to the instantaneous Tx power, conducted Tx power at P_{limit} , and compliance 1g_or_10gSAR values of band 2 at P_{limit_2} .

One of the two bands is less than 3GHz, another is greater than 3GHz. Transition from first band with time-averaging window 'T1_{SAR}' to the second band with time-averaging window 'T2_{SAR}' happens at time-instant 't1'.

6 SAR Measurements System Configuration

6.1 SAR Measurement Set-up

The DASY system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6.2 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

EX3DV4 Probe Specification

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure Scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.



E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than ± 0.25 dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$\text{SAR} = C \Delta T / \Delta t$$

Where: Δt = Exposure time (30 seconds),
 C = Heat capacity of tissue (brain or muscle),
 ΔT = Temperature increase due to RF exposure.

Or

$$\text{SAR} = |\mathbf{E}|^2 \sigma / \rho$$

Where: σ = Simulated tissue conductivity,
 ρ = Tissue density (kg/m^3).

6.3 SAR Measurement Procedure

Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

	≤3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤3GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{zoom}} \Delta y_{\text{zoom}}$			≤2GHz: ≤8mm 2 – 3GHz: ≤5mm*	3 – 4GHz: ≤5mm* 4 – 6GHz: ≤4mm*
Maximum zoom scan spatial resolution, normal to phantom surface	Uniform grid: $\Delta z_{\text{zoom}}(n)$		≤5mm	3 – 4GHz: ≤4mm 4 – 5GHz: ≤3mm 5 – 6GHz: ≤2mm
	Graded grid	$\Delta z_{\text{zoom}}(1)$: between 1 st two points closest to phantom surface	≤4mm	3 – 4GHz: ≤3mm 4 – 5GHz: ≤2.5mm 5 – 6GHz: ≤2mm
		$\Delta z_{\text{zoom}}(n>1)$: between subsequent points	≤1.5• $\Delta z_{\text{zoom}}(n-1)$	
Minimum zoom scan volume	X, y, z		≥30mm	3 – 4GHz: ≥28mm 4 – 5GHz: ≥25mm 5 – 6GHz: ≥22mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4W/kg, ≤8mm, ≤7mm and ≤5mm zoom scan resolution may be applied, respectively, for 2GHz to 3GHz, 3GHz to 4GHz and 4GHz to 6GHz.				

Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

7 Main Test Equipment

Name of Equipment	Manufacturer	Type/Model	Serial Number	Last Cal.	Cal. Due Date
Network Analyzer	Agilent	E5071B	MY42404014	2022-05-14	2023-05-13
Dielectric Probe Kit	SPEAG	DAK-12	1171	2022-10-29	2023-10-28
Power Meter	Agilent	E4417A	GB41291714	2022-05-14	2023-05-13
Power Sensor	Agilent	N8481H	MY50350004	2022-05-14	2023-05-13
Power Sensor	Agilent	E9327A	US40441622	2022-05-14	2023-05-13
Power Sensor	Agilent	NRP18S	101955	2022-05-14	2023-05-13
Signal Generator	Agilent	N5181A	MY50140143	2022-05-14	2023-05-13
Dual Directional Coupler	UCL	UCL-DDC0 56G-S	20010600118	/	/
Amplifier	INDEXSAR	TPA-005060 G01	13030502	2022-05-14	2023-05-13
Wireless Communication Tester	Anritsu	MT8820C	6201342015	2022-12-10	2023-12-09
Wireless communication tester	Starpoint	SP9500	20440	2022-12-10	2023-12-09
Wireless Communication Tester	Anritsu	MT8000A	6261844783	2022-05-14	2023-05-13
Wireless Communication Tester	R&S	CMW 500	146734	2022-05-14	2023-05-13
E-field Probe	SPEAG	EX3DV4	3677	2022-07-08	2023-07-07
DAE	SPEAG	DAE4	1291	2022-03-24	2023-03-23
E-field Probe	SPEAG	EX3DV4	7543	2022-12-10	2023-12-09
DAE	SPEAG	DAE4	1692	2022-11-18	2023-11-17
Validation Kit 750MHz	SPEAG	D750V3	1045	2020-08-28	2023-08-27
Validation Kit 835MHz	SPEAG	D835V2	4d020	2020-08-28	2023-08-27
Validation Kit 1750MHz	SPEAG	D1750V2	1033	2020-02-25	2023-02-24
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	2020-08-27	2023-08-26
Validation Kit 2450MHz	SPEAG	D2450V2	786	2020-08-27	2023-08-26
Validation Kit 2600MHz	SPEAG	D2600V2	1025	2021-04-23	2024-04-22
Validation Kit 3500MHz	SPEAG	D3500V2	1083	2022-10-09	2025-10-08
Validation Kit 5GHz	SPEAG	D5GHzV2	1151	2020-02-27	2023-02-26
Software for Tissue	Agilent	85070	/	/	/
Temperature Probe	Tianjin jinming	JM222	381	2022-05-14	2023-05-13
Twin SAM Phantom	SPEAG	SAM2	1666	/	/
Hygrothermograph	Anymetr	HTC - 1	TY2020A003	2022-05-14	2023-05-13
TX90 XL	SPEAG	Staubli TX90 XL	/	/	/
Software for Test	SPEAG	DASY52	52.10.4.1527	/	/

8 Tissue Dielectric Parameter Measurements & System Check

8.1 Tissue Verification

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 24 hours of use; or earlier if the dielectric parameters can become out of tolerance.

Target values

Frequency (MHz)	ϵ_r	$\sigma(\text{s/m})$
750	41.9	0.89
835	41.5	0.90
1750	40.1	1.37
1900	40.0	1.40
2450	39.2	1.80
2600	39.0	1.96
3500	37.9	2.91
5250	35.9	4.71
5600	35.5	5.07
5750	35.4	5.22

Measurements results

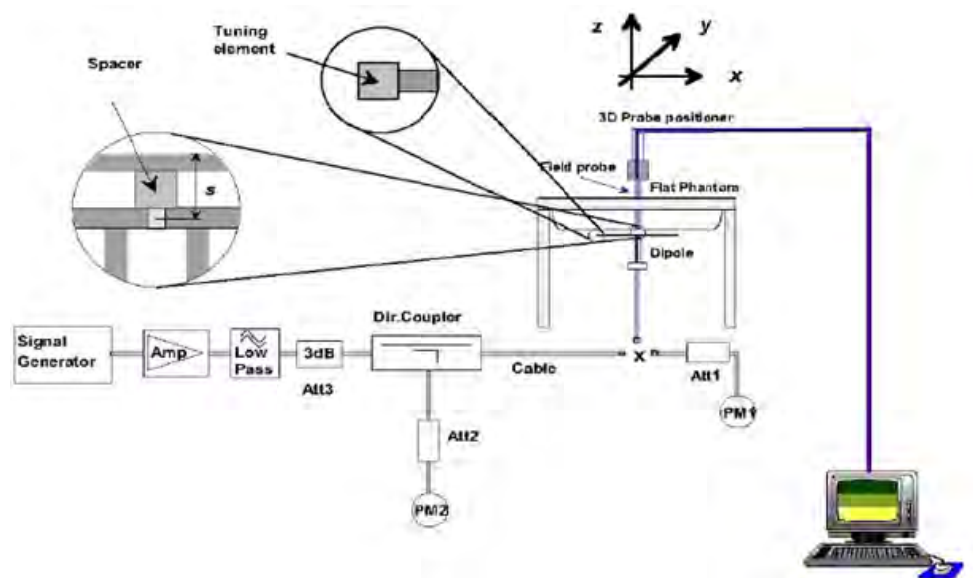
Frequency (MHz)	Test Date	Temp $^\circ\text{C}$	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within $\pm 5\%$)	
			ϵ_r	$\sigma(\text{s/m})$	ϵ_r	$\sigma(\text{s/m})$	Dev $\epsilon_r(\%)$	Dev $\sigma(\%)$
750	2023/1/6	21.5	42.3	0.88	41.9	0.89	0.95	-1.12
	2023/1/9	21.5	42.0	0.87	41.9	0.89	0.24	-2.25
835	2023/1/4	21.5	41.4	0.88	41.5	0.90	-0.24	-2.22
	2023/1/5	21.5	41.3	0.87	41.5	0.90	-0.48	-3.33
1750	2023/1/7	21.5	40.2	1.34	40.1	1.37	0.25	-2.19
	2023/1/8	21.5	40.1	1.34	40.1	1.37	0.00	-2.19
	2023/1/11	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
	2023/1/13	21.5	39.3	1.37	40.1	1.37	-2.00	0.00
	2023/1/14	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
1900	2023/1/10	21.5	40.1	1.41	40.0	1.40	0.25	0.71
	2023/1/12	21.5	40.2	1.43	40.0	1.40	0.50	2.14
	2023/1/15	21.5	40.0	1.40	40.0	1.40	0.00	0.00
	2023/1/17	21.5	40.5	1.34	40.0	1.40	1.25	-4.29

2450	2023/1/16	21.5	38.6	1.81	39.2	1.80	-1.53	0.56
	2023/1/29	21.5	38.7	1.82	39.2	1.80	-1.28	1.11
2600	2023/1/6	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
	2023/1/7	21.5	38.4	1.94	39.0	1.96	-1.54	-1.02
	2023/1/8	21.5	38.3	1.99	39.0	1.96	-1.79	1.53
	2023/1/10	21.5	38.5	1.95	39.0	1.96	-1.28	-0.51
	2023/1/11	21.5	38.2	1.96	39.0	1.96	-2.05	0.00
	2023/1/13	21.5	39.0	1.98	39.0	1.96	0.00	1.02
	2023/1/14	21.5	38.2	2.04	39.0	1.96	-2.05	4.08
	2023/1/15	21.5	38.4	1.93	39.0	1.96	-1.54	-1.53
	2023/1/19	21.5	38.3	1.99	39.0	1.96	-1.79	1.53
	2023/1/20	21.5	38.5	1.96	39.0	1.96	-1.28	0.00
	2023/1/21	21.5	38.1	1.94	39.0	1.96	-2.31	-1.02
	2023/1/22	21.5	39.2	1.98	39.0	1.96	0.51	1.02
	2023/1/23	21.5	38.0	2.01	39.0	1.96	-2.56	2.55
	2023/1/24	21.5	38.6	1.94	39.0	1.96	-1.03	-1.02
	2023/1/25	21.5	38.8	1.99	39.0	1.96	-0.51	1.53
	2023/1/26	21.5	38.5	1.92	39.0	1.96	-1.28	-2.04
	2023/1/27	21.5	38.2	1.95	39.0	1.96	-2.05	-0.51
	2023/1/28	21.5	39.4	1.98	39.0	1.96	1.03	1.02
	2023/1/29	21.5	38.9	1.95	39.0	1.96	-0.26	-0.51
3500	2023/1/18	21.5	37.1	2.83	37.9	2.91	-2.11	-2.75
	2023/1/19	21.5	37.9	2.85	37.9	2.91	0.00	-2.06
	2023/1/21	21.5	37.8	2.90	37.9	2.91	-0.26	-0.34
	2023/1/22	21.5	37.9	2.89	37.9	2.91	0.00	-0.69
	2023/1/25	21.5	37.1	2.84	37.9	2.91	-2.11	-2.41
	2023/1/26	21.5	37.8	2.85	37.9	2.91	-0.26	-2.06
	2023/1/27	21.5	37.4	2.91	37.9	2.91	-1.32	0.00
	2023/1/28	21.5	37.9	2.88	37.9	2.91	0.00	-1.03
	2023/2/1	21.5	37.2	2.84	37.9	2.91	-1.85	-2.41
	2023/2/5	21.5	37.9	2.85	37.9	2.91	0.00	-2.06
	2023/2/6	21.5	37.9	2.90	37.9	2.91	0.00	-0.34
5250	2023/1/20	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
	2023/1/23	21.5	35.7	4.74	35.9	4.71	-0.56	0.64
5600	2023/1/24	21.5	34.2	5.21	35.5	5.07	-3.66	2.76
5750	2023/2/2	21.5	34.9	5.21	35.4	5.22	-1.41	-0.19
	2023/2/4	21.5	35.2	5.32	35.4	5.22	-0.56	1.92
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.								

8.2 System Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured using the dielectric probe kit and the network analyzer. A system check measurement for every day was made following the determination of the dielectric parameters of the Tissue simulates, using the dipole validation kit. The dipole antenna was placed under the flat section of the twin SAM phantom.

System check is performed regularly on all frequency bands where tests are performed with the DASY system.



Picture 1 System Check setup



Picture 2 Setup Photo

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (< -20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Dipole		Date of Measurement	Return Loss (dB)	Δ %	Impedance (Ω)			
					Real	$\Delta\Omega$	Imaginary	$\Delta\Omega$
Dipole D750V3 SN: 1045	Head Liquid	8/28/2020	26.6	/	54.3	/	-2.29	/
		8/27/2021	26.2	-1.5	53.9	-0.4	-2.28	0.01
		8/26/2022	26.0	-0.8	52.1	-1.8	-2.25	0.03
Dipole D835V2 SN: 4d020	Head Liquid	8/28/2020	26.2	/	54.8	/	1.73	/
		8/27/2021	26.5	1.1	55.2	0.4	1.74	0.01
		8/26/2022	27.2	2.6	55.5	0.3	1.74	0
Dipole D1750V2 SN: 1033	Head Liquid	2/25/2020	38.3	/	48.8	/	-0.06	/
		2/24/2021	40.0	4.4	49.9	1.1	-0.06	0
		2/23/2022	40.6	1.5	51.1	1.2	-0.05	0.01
Dipole D1900V2 SN: 5d060	Head Liquid	8/27/2020	23.3	/	52.5	/	6.58	/
		8/26/2021	23.0	-1.3	51.9	-0.6	6.54	-0.04
		8/25/2022	22.2	-3.5	51.2	-0.7	6.53	-0.01
Dipole D2450V2 SN: 786	Head Liquid	8/27/2020	27.1	0.7	53.8	-0.7	1.43	-0.01
		8/26/2021	27.4	1.1	53.4	-0.4	1.43	0
		8/25/2022	22.9	/	50.1	/	-7.19	/
Dipole D2600V2 SN: 1025	Head Liquid	4/23/2021	22.4	-2.2	50.7	0.6	-7.23	-0.04
		4/22/2022	27.5	/	48.2	/	3.80	/
Dipole D5GHzV2 SN: 1151 (5250MHz)	Head Liquid	2/27/2020	23.4	/	52.4	/	-6.47	/
		2/26/2021	23.8	1.7	50.0	-2.4	-6.31	0.16
		2/25/2022	23.9	0.4	49.3	-0.7	-6.42	-0.11
Dipole D5GHzV2 SN: 1151 (5600MHz)	Head Liquid	2/27/2020	22.6	/	57.0	/	-3.86	/
		2/26/2021	21.5	-4.9	56.5	-0.9	-3.77	0.09
		2/25/2022	20.9	-2.8	56.3	-0.4	-3.83	-0.06
Dipole D5GHzV2 SN: 1151 (5750MHz)	Head Liquid	2/27/2020	25.0	/	55.9	/	0.16	/
		2/26/2021	26.8	-1.8	52.5	-3.4	0.15	-0.01
		2/25/2022	27.1	1.1	52.1	-0.4	0.16	0.01

System Check Results

Frequency (MHz)	Test Date	Temp °C	250mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
750	2023/1/6	21.5	2.13	8.52	8.37	1.79	1
	2023/1/9	21.5	2.10	8.40	8.37	0.36	2
835	2023/1/4	21.5	2.44	9.76	9.65	1.14	3
	2023/1/5	21.5	2.46	9.84	9.65	1.97	4
1750	2023/1/7	21.5	8.95	35.80	35.90	-0.28	5
	2023/1/8	21.5	9.11	36.44	35.90	1.50	6
	2023/1/11	21.5	8.96	35.84	35.90	-0.17	7
	2023/1/13	21.5	8.99	35.96	35.90	0.17	8
	2023/1/14	21.5	8.92	35.68	35.90	-0.61	9
1900	2023/1/10	21.5	9.88	39.52	39.50	0.05	10
	2023/1/12	21.5	9.85	39.40	39.50	-0.25	11
	2023/1/15	21.5	9.55	38.20	39.50	-3.29	12
	2023/1/17	21.5	9.60	38.40	39.50	-2.78	13
2450	2023/1/16	21.5	13.70	54.80	52.30	4.78	14
	2023/1/29	21.5	13.52	54.08	52.30	3.40	15
2600	2023/1/6	21.5	13.90	55.60	56.10	-0.89	16
	2023/1/7	21.5	13.88	55.52	56.10	-1.03	17
	2023/1/8	21.5	13.94	55.76	56.10	-0.61	18
	2023/1/10	21.5	13.90	55.60	56.10	-0.89	19
	2023/1/11	21.5	13.91	55.64	56.10	-0.82	20
	2023/1/13	21.5	13.85	55.40	56.10	-1.25	21
	2023/1/14	21.5	13.75	55.00	56.10	-1.96	22
	2023/1/15	21.5	13.86	55.44	56.10	-1.18	23
	2023/1/19	21.5	13.96	55.84	56.10	-0.46	24
	2023/1/20	21.5	13.92	55.68	56.10	-0.75	25
	2023/1/21	21.5	13.90	55.60	56.10	-0.89	26
	2023/1/22	21.5	13.87	55.48	56.10	-1.11	27
	2023/1/23	21.5	13.94	55.76	56.10	-0.61	28
	2023/1/24	21.5	13.89	55.56	56.10	-0.96	29
	2023/1/25	21.5	13.92	55.68	56.10	-0.75	30
	2023/1/26	21.5	13.89	55.56	56.10	-0.96	31
	2023/1/27	21.5	13.86	55.44	56.10	-1.18	32
	2023/1/28	21.5	13.86	55.44	56.10	-1.18	33
	2023/1/29	21.5	13.93	55.72	56.10	-0.68	34

Frequency (MHz)	Test Date	Temp °C	100mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
3500	2023/1/18	21.5	6.57	65.70	67.10	-2.09	35
	2023/1/19	21.5	6.53	65.30	67.10	-2.68	36
	2023/1/21	21.5	6.47	64.70	67.10	-3.58	37
	2023/1/22	21.5	6.55	65.50	67.10	-2.38	38
	2023/1/25	21.5	6.56	65.60	67.10	-2.24	39
	2023/1/26	21.5	6.53	65.30	67.10	-2.68	40
	2023/1/27	21.5	6.45	64.50	67.10	-3.87	41
	2023/1/28	21.5	6.55	65.50	67.10	-2.38	42
	2023/2/1	21.5	6.57	65.70	67.10	-2.09	43
	2023/2/5	21.5	6.50	65.00	67.10	-3.13	44
	2023/2/6	21.5	6.49	64.90	67.10	-3.28	45
5250	2023/1/20	21.5	7.87	78.70	78.00	0.90	46
	2023/1/23	21.5	7.54	75.40	78.00	-3.33	47
5600	2023/1/24	21.5	7.67	76.70	80.50	-4.72	48
5750	2023/2/2	21.5	7.66	76.60	77.40	-1.03	49
	2023/2/4	21.5	7.75	77.50	77.40	0.13	50
Note: Target Values used derive from the calibration certificate Data Storage and Evaluation.							

8.3 SAR System Validation

Per FCC KDB 865664 D02v01, SAR system verification is required to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.

Frequency [MHz]	Date	Probe SN	Probe Type	Probe Cal Point		PERM (Er)	COND (Σ)	CW Validation		
								Sensitivity	Probe Linearity	Probe Isotropy
2600	2022/12/10	7543	EX3DV4	2600	Head	39.0	1.96	PASS	PASS	PASS

Frequency [MHz]	Date	Probe SN	Probe Type	Probe Cal Point		PERM (Er)	COND (Σ)	CW Validation		
								Sensitivity	Probe Linearity	Probe Isotropy
750	2022/7/8	3677	EX3DV4	750	Head	41.9	0.89	PASS	PASS	PASS
835	2022/7/8	3677	EX3DV4	835	Head	41.5	0.90	PASS	PASS	PASS
1750	2022/7/8	3677	EX3DV4	1750	Head	40.1	1.37	PASS	PASS	PASS
1900	2022/7/8	3677	EX3DV4	1900	Head	40.0	1.40	PASS	PASS	PASS
2300	2022/7/8	3677	EX3DV4	2300	Head	39.5	1.67	PASS	PASS	PASS
2450	2022/7/8	3677	EX3DV4	2450	Head	39.2	1.80	PASS	PASS	PASS
2600	2022/7/8	3677	EX3DV4	2600	Head	39.0	1.96	PASS	PASS	PASS
3500	2022/7/8	3677	EX3DV4	3500	Head	37.9	2.91	PASS	PASS	PASS
3700	2022/7/8	3677	EX3DV4	3700	Head	37.7	3.12	PASS	PASS	PASS
3900	2022/7/8	3677	EX3DV4	3900	Head	37.5	3.32	PASS	PASS	PASS
5250	2022/7/8	3677	EX3DV4	5250	Head	35.9	4.71	PASS	PASS	PASS
5600	2022/7/8	3677	EX3DV4	5600	Head	35.5	5.07	PASS	PASS	PASS
5750	2022/7/8	3677	EX3DV4	5750	Head	35.4	5.22	PASS	PASS	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664D01v01 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5dB), such as OFDM according to KDB 865664.

9 Normal and Maximum Output Power

KDB 447498 D01 at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

9.1 GSM Mode

Main- Antenna

GSM 850 Receiver on &Receiver off Main Ant0		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	33.80	33.70	33.66	33.59	9.03	24.77	24.67	24.63	24.56
GPRS/ EGPRS (GMSK)	1 Tx Slot	33.80	33.68	33.65	33.50	9.03	24.77	24.65	24.62	24.47
	2 Tx Slots	31.50	30.50	30.40	30.20	6.02	25.48	24.48	24.38	24.18
	3 Tx Slots	30.00	29.20	28.90	28.62	4.26	25.74	24.94	24.64	24.36
	4 Tx Slots	28.50	27.62	26.53	26.54	3.01	25.49	24.61	23.52	23.53
EGPRS (8PSK)	1 Tx Slot	28.50	27.60	27.20	27.32	9.03	19.47	18.57	18.17	18.29
	2 Tx Slots	25.50	24.85	24.90	24.82	6.02	19.48	18.83	18.88	18.80
	3 Tx Slots	24.00	23.20	23.00	23.01	4.26	19.74	18.94	18.74	18.75
	4 Tx Slots	22.50	21.60	21.40	21.64	3.01	19.49	18.59	18.39	18.63
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 850 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.										

GSM 850 Hotspot on Main Ant0		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GSM	CS	29.80	29.04	28.74	28.72	9.03	20.77	20.01	19.71	19.69
GPRS/ EGPRS (GMSK)	1 Tx Slot	29.80	28.88	28.75	28.65	9.03	20.77	19.85	19.72	19.62
	2 Tx Slots	27.50	25.82	25.74	25.52	6.02	21.48	19.80	19.72	19.50
	3 Tx Slots	26.00	24.32	24.04	24.03	4.26	21.74	20.06	19.78	19.77
	4 Tx Slots	24.50	22.76	22.61	22.59	3.01	21.49	19.75	19.60	19.58
EGPRS (8PSK)	1 Tx Slot	28.50	26.51	26.52	26.55	9.03	19.47	17.48	17.49	17.52
	2 Tx Slots	25.50	23.97	24.07	23.82	6.02	19.48	17.95	18.05	17.80
	3 Tx Slots	24.00	22.63	22.56	22.07	4.26	19.74	18.37	18.30	17.81
	4 Tx Slots	22.50	21.07	20.77	20.67	3.01	19.49	18.06	17.76	17.66
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 850 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.										

GSM 1900 Receiver on &Receiver off &Hotspot on Main Ant1		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	31.00	29.95	29.42	29.79	9.03	21.97	20.92	20.39	20.76
GPRS/ EGPRS (GMSK)	1 Tx Slot	31.00	29.85	29.40	29.74	9.03	21.97	20.82	20.37	20.71
	2 Tx Slots	28.00	26.53	26.24	26.39	6.02	21.98	20.51	20.22	20.37
	3 Tx Slots	26.50	24.80	24.75	24.71	4.26	22.24	20.54	20.49	20.45
	4 Tx Slots	25.00	23.61	23.99	24.01	3.01	21.99	20.60	20.98	21.00
EGPRS (8PSK)	1 Tx Slot	27.00	25.64	25.45	25.73	9.03	17.97	16.61	16.42	16.70
	2 Tx Slots	24.00	22.65	23.38	22.65	6.02	17.98	16.63	17.36	16.63
	3 Tx Slots	22.50	20.54	21.56	21.02	4.26	18.24	16.28	17.30	16.76
	4 Tx Slots	21.00	19.77	19.85	19.54	3.01	17.99	16.76	16.84	16.53

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:

Standalone: GSM 1900 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.

Div – Antenna

GSM 1900 Receiver on Div Ant2		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	25.10	24.56	24.35	24.61	9.03	16.07	15.53	15.32	15.58
GPRS/ EGPRS (GMSK)	1 Tx Slot	25.10	24.47	24.31	24.53	9.03	16.07	15.44	15.28	15.50
	2 Tx Slots	22.10	21.45	21.41	21.52	6.02	16.08	15.43	15.39	15.50
	3 Tx Slots	20.60	19.60	19.48	19.62	4.26	16.34	15.34	15.22	15.36
	4 Tx Slots	19.10	17.75	17.92	17.85	3.01	16.09	14.74	14.91	14.84
EGPRS (8PSK)	1 Tx Slot	25.10	24.40	23.96	24.42	9.03	16.07	15.37	14.93	15.39
	2 Tx Slots	22.10	21.12	21.12	21.16	6.02	16.08	15.10	15.10	15.14
	3 Tx Slots	20.60	19.33	19.46	19.32	4.26	16.34	15.07	15.20	15.06
	4 Tx Slots	19.10	17.80	17.89	17.75	3.01	16.09	14.79	14.88	14.74
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 1900 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.										

GSM 1900 Receiver off Div Ant2		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	29.50	28.94	28.56	29.05	9.03	20.47	19.91	19.53	20.02
GPRS/ EGPRS (GMSK)	1 Tx Slot	29.50	28.89	28.56	29.02	9.03	20.47	19.86	19.53	19.99
	2 Tx Slots	26.50	25.55	25.59	25.65	6.02	20.48	19.53	19.57	19.63
	3 Tx Slots	25.00	23.99	24.01	24.17	4.26	20.74	19.73	19.75	19.91
	4 Tx Slots	23.50	22.76	22.66	22.76	3.01	20.49	19.75	19.65	19.75
EGPRS (8PSK)	1 Tx Slot	26.00	25.72	25.95	25.93	9.03	16.97	16.69	16.92	16.90
	2 Tx Slots	23.00	22.94	22.98	22.96	6.02	16.98	16.92	16.96	16.94
	3 Tx Slots	21.50	21.06	21.16	21.14	4.26	17.24	16.80	16.90	16.88
	4 Tx Slots	20.00	19.90	19.88	19.91	3.01	16.99	16.89	16.87	16.90
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 1900 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.										

GSM 1900 Hotspot on Div Ant2		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GSM	CS	24.10	23.78	23.35	23.96	9.03	15.07	14.75	14.32	14.93
GPRS/ EGPRS (GMSK)	1 Tx Slot	24.10	23.76	23.35	23.89	9.03	15.07	14.73	14.32	14.86
	2 Tx Slots	21.10	20.34	20.28	20.48	6.02	15.08	14.32	14.26	14.46
	3 Tx Slots	19.60	18.52	18.46	18.57	4.26	15.34	14.26	14.20	14.31
	4 Tx Slots	18.10	17.42	17.40	17.56	3.01	15.09	14.41	14.39	14.55
EGPRS (8PSK)	1 Tx Slot	24.10	23.14	23.16	23.15	9.03	15.07	14.11	14.13	14.12
	2 Tx Slots	21.10	20.95	20.95	20.93	6.02	15.08	14.93	14.93	14.91
	3 Tx Slots	19.60	18.45	18.47	18.52	4.26	15.34	14.19	14.21	14.26
	4 Tx Slots	18.10	17.36	17.15	17.08	3.01	15.09	14.35	14.14	14.07
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 1900 GMSK (GPRS) mode with 3 time slots for Max power, based on the output power measurements above.										

9.2 WCDMA Mode

The following tests were completed according to the test requirements outlined in the 3GPP TS34.121 specification.

WCDMA Band II					
Receiver on--Main Ant1		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	23.74	23.87	23.82	25.00
AMR	12.2k	23.86	23.83	23.80	25.00
HSDPA	Subtest 1	22.68	22.91	22.98	24.20
	Subtest 2	22.90	22.83	22.78	24.20
	Subtest 3	22.28	22.43	22.18	23.70
	Subtest 4	22.30	22.53	22.42	23.70
HSUPA	Subtest 1	22.50	22.63	22.68	24.10
	Subtest 2	20.76	20.65	20.60	22.10
	Subtest 3	21.64	21.73	21.74	23.10
	Subtest 4	20.68	20.83	20.78	22.10
	Subtest 5	22.56	22.67	22.80	24.10
DC-HSDPA	Subtest 1	22.68	22.73	22.70	24.20
	Subtest 2	22.74	22.85	22.88	24.20
	Subtest 3	22.30	22.47	22.18	23.70
	Subtest 4	22.08	22.45	22.24	23.70
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band II					
Receiver off --Main Ant1		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	21.45	21.45	21.42	22.60
AMR	12.2k	21.35	21.45	21.34	22.60
HSDPA	Subtest 1	20.39	20.39	20.50	21.80
	Subtest 2	20.47	20.37	20.34	21.80
	Subtest 3	20.05	19.89	20.02	21.30
	Subtest 4	20.07	19.81	20.00	21.30
HSUPA	Subtest 1	20.49	20.51	20.18	21.70
	Subtest 2	18.31	18.29	18.28	19.70
	Subtest 3	19.47	19.45	19.32	20.70

	Subtest 4	18.25	18.23	18.32	19.70
	Subtest 5	20.23	20.27	20.28	21.70
DC-HSDPA	Subtest 1	20.37	20.55	20.26	21.80
	Subtest 2	20.37	20.31	20.44	21.80
	Subtest 3	19.97	19.81	19.84	21.30
	Subtest 4	20.09	20.03	20.06	21.30
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band II					
Hotspot on--Main Ant1		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	20.81	20.82	20.81	22.00
AMR	12.2k	20.71	20.86	20.79	22.00
HSDPA	Subtest 1	19.88	19.86	19.66	21.20
	Subtest 2	19.90	19.84	19.65	21.20
	Subtest 3	19.40	19.35	19.15	20.70
	Subtest 4	19.36	19.36	19.15	20.70
HSUPA	Subtest 1	19.82	19.80	19.62	21.10
	Subtest 2	17.81	17.81	17.59	19.10
	Subtest 3	18.81	18.81	18.60	20.10
	Subtest 4	17.80	17.82	17.64	19.10
	Subtest 5	19.95	19.82	19.60	21.10
DC-HSDPA	Subtest 1	19.65	19.98	19.73	21.20
	Subtest 2	19.79	19.84	19.81	21.20
	Subtest 3	19.37	19.28	19.37	20.70
	Subtest 4	19.33	19.24	19.15	20.70

WCDMA Band IV					
Receiver on--Main Ant1		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	24.11	24.05	24.21	25.00
AMR	12.2k	24.17	24.19	24.37	25.00
HSDPA	Subtest 1	22.84	22.84	22.90	24.20
	Subtest 2	22.83	22.84	22.94	24.20
	Subtest 3	22.33	22.35	22.39	23.70
	Subtest 4	22.30	22.34	22.42	23.70
HSUPA	Subtest 1	22.77	22.87	22.90	24.10
	Subtest 2	20.76	20.88	20.89	22.10

	Subtest 3	21.78	21.84	21.89	23.10
	Subtest 4	20.78	20.87	20.90	22.10
	Subtest 5	22.78	22.87	22.90	24.10
	Subtest 1	23.03	23.21	23.35	24.20
DC-HSDPA	Subtest 2	22.95	22.99	23.23	24.20
	Subtest 3	22.69	22.65	22.73	23.70
	Subtest 4	22.51	22.49	22.85	23.70
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band IV					
Receiver off --Main Ant1		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	21.49	21.42	21.58	22.40
AMR	12.2k	21.55	21.54	21.72	22.40
HSDPA	Subtest 1	20.51	20.36	20.48	21.60
	Subtest 2	20.61	20.46	20.74	21.60
	Subtest 3	19.93	20.06	20.00	21.10
	Subtest 4	19.99	19.84	20.20	21.10
HSUPA	Subtest 1	20.53	20.48	20.46	21.50
	Subtest 2	18.43	18.28	18.34	19.50
	Subtest 3	19.51	19.26	19.36	20.50
	Subtest 4	18.49	18.38	18.36	19.50
	Subtest 5	20.25	20.16	20.54	21.50
DC-HSDPA	Subtest 1	20.57	20.58	20.46	21.60
	Subtest 2	20.45	20.44	20.48	21.60
	Subtest 3	19.93	19.90	20.04	21.10
	Subtest 4	20.03	19.80	20.02	21.10
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band IV					
Hotspot on--Main Ant1		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	21.10	21.08	21.23	22.00
AMR	12.2k	21.08	20.92	21.07	22.00
HSDPA	Subtest 1	19.94	20.12	20.07	21.20
	Subtest 2	20.02	19.94	20.29	21.20

	Subtest 3	19.58	19.60	19.79	20.70
	Subtest 4	19.66	19.46	19.79	20.70
HSUPA	Subtest 1	19.84	19.94	20.15	21.10
	Subtest 2	18.02	17.92	18.19	19.10
	Subtest 3	19.16	18.98	19.17	20.10
	Subtest 4	18.10	17.86	18.11	19.10
	Subtest 5	20.08	20.02	20.11	21.10
DC-HSDPA	Subtest 1	20.22	20.16	20.29	21.20
	Subtest 2	20.06	20.06	20.17	21.20
	Subtest 3	19.70	19.66	19.67	20.70
	Subtest 4	19.48	19.54	19.73	20.70
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band V					
Receiver on & Receiver off & Hotspot on--Main Ant0		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		4132/826.4	4183/836.6	4233/846.6	
RMC	12.2k	23.82	23.88	23.83	25.00
AMR	12.2k	23.98	23.86	23.85	25.00
HSDPA	Subtest 1	22.91	22.93	22.83	24.30
	Subtest 2	22.91	22.92	22.82	24.30
	Subtest 3	22.42	22.39	22.35	23.80
	Subtest 4	22.43	22.42	22.32	23.80
HSUPA	Subtest 1	22.88	22.89	22.80	24.00
	Subtest 2	20.91	20.88	20.80	22.00
	Subtest 3	21.88	21.88	21.79	23.00
	Subtest 4	20.88	20.89	20.79	22.00
	Subtest 5	22.89	22.88	22.80	24.00
DC-HSDPA	Subtest 1	22.80	23.10	23.01	24.30
	Subtest 2	23.02	22.82	22.95	24.30
	Subtest 3	22.52	22.48	22.35	23.80
	Subtest 4	22.26	22.42	22.57	23.80
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band II					
Receiver on--Div Ant2		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	13.92	13.88	13.92	15.10
AMR	12.2k	13.92	13.98	14.06	15.10
HSDPA	Subtest 1	13.02	13.04	12.84	14.30
	Subtest 2	12.90	13.02	12.92	14.30
	Subtest 3	12.44	12.26	12.52	13.80
	Subtest 4	12.56	12.28	12.30	13.80
HSUPA	Subtest 1	12.68	12.66	12.74	14.20
	Subtest 2	10.80	10.80	10.84	12.20
	Subtest 3	11.84	11.80	11.94	13.20
	Subtest 4	10.78	10.64	10.72	12.20
	Subtest 5	12.96	12.66	12.74	14.20
DC-HSDPA	Subtest 1	13.06	13.04	13.02	14.30
	Subtest 2	12.78	12.88	12.94	14.30
	Subtest 3	12.54	12.36	12.54	13.80
	Subtest 4	12.34	12.36	12.32	13.80
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band II					
Receiver off --Div Ant2		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	18.80	18.78	18.74	20.00
AMR	12.2k	18.82	18.66	18.76	20.00
HSDPA	Subtest 1	17.66	17.70	17.62	19.20
	Subtest 2	17.82	17.64	17.90	19.20
	Subtest 3	17.34	17.16	17.14	18.70
	Subtest 4	17.20	17.16	17.26	18.70
HSUPA	Subtest 1	17.74	17.62	17.58	19.10
	Subtest 2	15.56	15.72	15.72	17.10
	Subtest 3	16.62	16.70	16.64	18.10
	Subtest 4	15.66	15.84	15.72	17.10
	Subtest 5	17.68	17.54	17.78	19.10
DC-HSDPA	Subtest 1	17.92	17.92	17.86	19.20
	Subtest 2	17.74	17.66	17.80	19.20

	Subtest 3	17.24	17.42	17.12	18.70
	Subtest 4	17.18	17.36	17.14	18.70
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band II					
Hotspot on--Div Ant2		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	12.88	12.82	12.89	14.10
AMR	12.2k	12.72	12.92	12.75	14.10
HSDPA	Subtest 1	11.86	11.89	11.83	13.30
	Subtest 2	11.84	11.91	11.83	13.30
	Subtest 3	11.33	11.41	11.18	12.80
	Subtest 4	11.36	11.39	11.34	12.80
HSUPA	Subtest 1	11.84	11.85	11.81	13.20
	Subtest 2	9.84	9.85	9.99	11.20
	Subtest 3	10.66	10.85	10.69	12.20
	Subtest 4	9.70	9.86	9.79	11.20
	Subtest 5	11.78	11.85	11.77	13.20
DC-HSDPA	Subtest 1	11.90	11.70	12.03	13.30
	Subtest 2	11.92	11.72	12.05	13.30
	Subtest 3	11.34	11.32	11.31	12.80
	Subtest 4	11.44	11.26	11.55	12.80
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band IV					
Receiver on--Div Ant2		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	18.71	18.72	18.60	19.50
AMR	12.2k	18.81	18.56	18.58	19.50
HSDPA	Subtest 1	17.57	17.56	17.72	18.70
	Subtest 2	17.81	17.84	17.64	18.70
	Subtest 3	17.29	17.08	17.12	18.20
	Subtest 4	17.11	17.12	17.12	18.20
HSUPA	Subtest 1	17.71	17.66	17.62	18.60
	Subtest 2	15.53	15.62	15.64	16.60
	Subtest 3	16.57	16.68	16.32	17.60

	Subtest 4	15.65	15.56	15.42	16.60
	Subtest 5	17.73	17.50	17.52	18.60
DC-HSDPA	Subtest 1	17.53	17.78	17.64	18.70
	Subtest 2	17.61	17.78	17.60	18.70
	Subtest 3	17.11	17.28	17.08	18.20
	Subtest 4	17.31	17.12	17.06	18.20
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band IV					
Receiver off --Div Ant2		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	20.53	20.57	20.44	21.40
AMR	12.2k	20.45	20.51	20.40	21.40
HSDPA	Subtest 1	19.41	19.53	19.56	20.60
	Subtest 2	19.41	19.43	19.34	20.60
	Subtest 3	19.07	19.17	19.06	20.10
	Subtest 4	19.15	18.89	18.94	20.10
HSUPA	Subtest 1	19.29	19.29	19.26	20.50
	Subtest 2	17.33	17.47	17.28	18.50
	Subtest 3	18.39	18.45	18.20	19.50
	Subtest 4	17.33	17.31	17.46	18.50
	Subtest 5	19.35	19.47	19.18	20.50
DC-HSDPA	Subtest 1	19.41	19.65	19.58	20.60
	Subtest 2	19.35	19.49	19.58	20.60
	Subtest 3	19.15	19.19	18.90	20.10
	Subtest 4	19.11	18.95	18.82	20.10
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band IV					
Hotspot on--Div Ant2		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	15.76	15.83	15.66	16.60
AMR	12.2k	15.90	15.89	15.60	16.60
HSDPA	Subtest 1	14.74	14.81	14.70	15.80
	Subtest 2	14.84	14.83	14.52	15.80
	Subtest 3	14.20	14.43	14.16	15.30

	Subtest 4	14.28	14.23	14.14	15.30
HSUPA	Subtest 1	14.72	14.75	14.48	15.70
	Subtest 2	12.74	12.71	12.56	13.70
	Subtest 3	13.58	13.87	13.46	14.70
	Subtest 4	12.62	12.81	12.48	13.70
	Subtest 5	14.76	14.63	14.56	15.70
DC-HSDPA	Subtest 1	14.82	14.97	14.60	15.80
	Subtest 2	14.58	14.75	14.64	15.80
	Subtest 3	14.14	14.27	14.20	15.30
	Subtest 4	14.08	14.41	14.04	15.30
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

9.3 LTE Mode

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

LTE Band 2							
Receiver on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	22.79	22.96	22.82	24.50
		1	2	22.79	22.95	22.83	24.50
		1	5	22.84	22.89	22.84	24.50
		3	0	22.79	23.00	22.95	24.50
		3	2	22.84	22.99	22.95	24.50
		3	3	22.92	22.95	22.96	24.50
		6	0	21.92	22.04	22.05	23.50
	16QAM	1	0	22.09	22.20	22.26	23.50
		1	2	22.21	22.24	22.22	23.50
		1	5	22.15	22.22	22.17	23.50
		3	0	21.78	21.92	21.96	23.50
		3	2	21.88	21.98	21.97	23.50
		3	3	21.89	21.98	21.94	23.50
		6	0	20.95	21.04	21.05	22.50
	64QAM	1	0	20.90	21.02	21.14	22.50
		1	2	20.97	21.05	21.01	22.50
		1	5	21.02	21.02	20.94	22.50
		3	0	20.79	20.95	20.98	22.50
		3	2	20.92	21.04	21.01	22.50
		3	3	20.93	21.00	20.97	22.50
		6	0	19.98	20.07	20.05	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	22.81	23.00	22.85	24.50
		1	7	22.77	22.98	22.87	24.50

		1	14	22.87	22.94	22.88	24.50
		8	0	21.89	22.12	22.08	23.50
		8	4	21.96	22.09	22.07	23.50
		8	7	22.02	22.06	22.06	23.50
		15	0	21.92	22.08	22.08	23.50
	16QAM	1	0	22.09	22.22	22.29	23.50
		1	7	22.21	22.24	22.26	23.50
		1	14	22.17	22.26	22.20	23.50
		8	0	20.89	21.05	21.08	22.50
		8	4	20.99	21.11	21.09	22.50
		8	7	20.99	21.10	21.07	22.50
		15	0	20.98	21.08	21.08	22.50
	64QAM	1	0	20.93	21.04	21.17	22.50
		1	7	21.00	21.05	21.03	22.50
		1	14	21.04	21.01	20.97	22.50
		8	0	19.90	20.08	20.10	21.50
		8	4	20.03	20.17	20.13	21.50
		8	7	20.03	20.12	20.10	21.50
		15	0	20.01	20.11	20.08	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	22.78	22.98	22.81	24.50
		1	13	22.75	22.94	22.84	24.50
		1	24	22.84	22.89	22.84	24.50
		12	0	21.86	22.07	22.04	23.50
		12	6	21.94	22.05	22.02	23.50
		12	13	22.00	22.04	22.02	23.50
		25	0	21.92	22.07	22.06	23.50
	16QAM	1	0	22.09	22.18	22.26	23.50
		1	13	22.21	22.22	22.23	23.50
		1	24	22.14	22.24	22.16	23.50
		12	0	20.87	21.01	21.05	22.50
		12	6	20.96	21.06	21.05	22.50
		12	13	20.96	21.05	21.03	22.50
		25	0	20.96	21.04	21.03	22.50
	64QAM	1	0	20.90	21.04	21.14	22.50
		1	13	20.97	21.07	21.00	22.50
		1	24	21.05	20.99	20.93	22.50
		12	0	19.88	20.04	20.11	21.50
		12	6	20.00	20.12	20.09	21.50
		12	13	20.00	20.07	20.06	21.50
		25	0	19.99	20.07	20.03	21.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.80	22.99	22.84	24.50
		1	25	22.78	22.99	22.88	24.50
		1	49	22.86	22.93	22.87	24.50
		25	0	21.89	22.12	22.08	23.50
		25	13	21.97	22.10	22.06	23.50
		25	25	22.02	22.08	22.07	23.50
		50	0	21.96	22.09	22.10	23.50
	16QAM	1	0	22.13	22.21	22.28	23.50
		1	25	22.25	22.26	22.26	23.50
		1	49	22.17	22.26	22.19	23.50
		25	0	20.90	21.06	21.09	22.50
		25	13	20.98	21.10	21.08	22.50
		25	25	20.99	21.10	21.07	22.50
		50	0	20.99	21.09	21.07	22.50
	64QAM	1	0	20.92	21.03	21.16	22.50
		1	25	21.00	21.07	21.03	22.50
		1	49	21.04	21.01	20.96	22.50
		25	0	19.91	20.09	20.11	21.50
		25	13	20.02	20.16	20.12	21.50
		25	25	20.03	20.12	20.10	21.50
		50	0	20.02	20.12	20.07	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	22.79	22.95	22.82	24.50
		1	38	22.76	22.98	22.85	24.50
		1	74	22.83	22.88	22.83	24.50
		36	0	21.87	22.08	22.05	23.50
		36	18	21.94	22.05	22.02	23.50
		36	39	21.99	22.05	22.03	23.50
		75	0	21.94	22.05	22.05	23.50
	16QAM	1	0	22.11	22.19	22.26	23.50
		1	38	22.23	22.23	22.24	23.50
		1	74	22.15	22.22	22.16	23.50
		36	0	20.87	21.04	21.06	22.50
		36	18	20.95	21.05	21.04	22.50
		36	39	20.97	21.06	21.04	22.50
		75	0	20.96	21.04	21.03	22.50
	64QAM	1	0	20.87	21.01	21.14	22.50
		1	38	20.98	21.04	21.01	22.50
		1	74	21.05	21.00	20.97	22.50
		36	0	19.90	20.11	20.12	21.50

		36	18	20.00	20.13	20.11	21.50
		36	39	20.01	20.08	20.07	21.50
		75	0	19.99	20.07	20.03	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	22.76	22.91	22.79	24.50
		1	50	22.75	22.94	22.83	24.50
		1	99	22.81	22.87	22.80	24.50
		50	0	21.84	22.03	22.01	23.50
		50	25	21.92	22.01	21.99	23.50
		50	50	21.96	22.00	21.99	23.50
		100	0	21.91	22.00	22.01	23.50
	16QAM	1	0	22.08	22.15	22.21	23.50
		1	50	22.20	22.21	22.20	23.50
		1	99	22.12	22.19	22.14	23.50
		50	0	20.84	21.00	21.03	22.50
		50	25	20.92	21.03	21.01	22.50
		50	50	20.94	21.01	21.00	22.50
		100	0	20.94	21.00	21.00	22.50
	64QAM	1	0	20.85	20.97	21.09	22.50
		1	50	20.94	21.02	20.97	22.50
		1	99	20.99	20.94	20.91	22.50
		50	0	19.85	20.03	20.05	21.50
		50	25	19.96	20.09	20.05	21.50
		50	50	19.98	20.03	20.03	21.50
		100	0	19.97	20.03	20.00	21.50

LTE Band 2							
Receiver off-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.98	22.22	22.13	23.70
		1	2	21.96	22.17	21.96	23.70
		1	5	22.05	22.07	22.07	23.70
		3	0	22.13	22.37	22.29	23.70
		3	2	22.19	22.36	22.29	23.70
		3	3	22.25	22.32	22.34	23.70
		6	0	21.95	22.07	22.10	23.50
	16QAM	1	0	22.07	22.24	22.26	23.50
		1	2	22.06	22.27	22.16	23.50
		1	5	22.20	22.27	22.18	23.50
		3	0	21.78	21.92	21.95	23.50
		3	2	21.89	21.98	21.97	23.50

		3	3	21.87	21.98	21.95	23.50
		6	0	20.93	21.07	21.06	22.50
	64QAM	1	0	20.90	21.13	21.21	22.50
		1	2	20.89	21.14	21.18	22.50
		1	5	20.97	21.15	21.06	22.50
		3	0	20.81	20.96	20.96	22.50
		3	2	20.94	21.03	21.02	22.50
		3	3	20.91	21.06	21.01	22.50
		6	0	19.93	20.11	20.09	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.95	22.17	22.10	23.70
		1	7	21.92	22.16	21.96	23.70
		1	14	22.02	22.05	22.03	23.70
		8	0	21.84	22.06	22.01	23.50
		8	4	21.93	22.04	21.99	23.50
		8	7	21.95	22.03	22.03	23.50
		15	0	21.94	22.03	22.06	23.50
	16QAM	1	0	22.06	22.19	22.21	23.50
		1	7	22.05	22.24	22.14	23.50
		1	14	22.17	22.24	22.15	23.50
		8	0	20.84	21.00	21.02	22.50
		8	4	20.93	21.03	21.01	22.50
		8	7	20.92	21.01	21.01	22.50
		15	0	20.92	21.03	21.01	22.50
	64QAM	1	0	20.85	21.08	21.16	22.50
		1	7	20.86	21.11	21.14	22.50
		1	14	20.94	21.07	21.03	22.50
		8	0	19.87	20.04	20.03	21.50
		8	4	19.98	20.08	20.06	21.50
		8	7	19.96	20.09	20.07	21.50
		15	0	19.92	20.07	20.04	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.94	22.13	22.08	23.70
		1	13	21.90	22.15	21.93	23.70
		1	24	21.99	22.00	21.99	23.70
		12	0	21.82	22.02	21.98	23.50
		12	6	21.90	21.99	21.95	23.50
		12	13	21.92	22.00	21.99	23.50
		25	0	21.92	21.99	22.01	23.50
	16QAM	1	0	22.04	22.17	22.19	23.50
		1	13	22.03	22.21	22.12	23.50

		1	24	22.15	22.20	22.12	23.50
		12	0	20.81	20.98	20.99	22.50
		12	6	20.90	20.98	20.97	22.50
		12	13	20.90	20.97	20.98	22.50
		25	0	20.89	20.98	20.97	22.50
	64QAM	1	0	20.80	21.06	21.14	22.50
		1	13	20.84	21.08	21.12	22.50
		1	24	20.95	21.06	21.04	22.50
		12	0	19.86	20.06	20.04	21.50
		12	6	19.96	20.05	20.05	21.50
		12	13	19.94	20.05	20.04	21.50
		25	0	19.89	20.02	20.00	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.99	22.25	22.15	23.70
		1	25	21.95	22.21	22.01	23.70
		1	49	22.07	22.11	22.10	23.70
		25	0	21.89	22.15	22.08	23.50
		25	13	21.98	22.13	22.06	23.50
		25	25	22.01	22.11	22.11	23.50
		50	0	21.99	22.12	22.15	23.50
	16QAM	1	0	22.11	22.25	22.28	23.50
		1	25	22.10	22.29	22.20	23.50
		1	49	22.22	22.31	22.20	23.50
		25	0	20.90	21.06	21.08	22.50
		25	13	20.99	21.10	21.08	22.50
		25	25	20.97	21.10	21.08	22.50
		50	0	20.97	21.12	21.08	22.50
	64QAM	1	0	20.92	21.14	21.23	22.50
		1	25	20.92	21.16	21.20	22.50
		1	49	20.99	21.14	21.08	22.50
		25	0	19.93	20.10	20.09	21.50
		25	13	20.04	20.15	20.13	21.50
		25	25	20.01	20.18	20.14	21.50
		50	0	19.97	20.16	20.11	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.97	22.24	22.12	23.70
		1	38	21.92	22.16	21.97	23.70
		1	74	22.05	22.07	22.07	23.70
		36	0	21.86	22.10	22.04	23.50
		36	18	21.95	22.08	22.02	23.50
		36	39	21.99	22.07	22.06	23.50

	16QAM	75	0	21.95	22.10	22.11	23.50
		1	0	22.07	22.22	22.26	23.50
		1	38	22.06	22.25	22.17	23.50
		1	74	22.19	22.29	22.17	23.50
		36	0	20.87	21.01	21.04	22.50
		36	18	20.97	21.06	21.05	22.50
		36	39	20.94	21.05	21.04	22.50
		75	0	20.94	21.07	21.04	22.50
	64QAM	1	0	20.90	21.15	21.21	22.50
		1	38	20.89	21.16	21.17	22.50
		1	74	21.00	21.12	21.05	22.50
		36	0	19.90	20.05	20.09	21.50
		36	18	20.02	20.11	20.10	21.50
		36	39	19.98	20.13	20.10	21.50
		75	0	19.94	20.11	20.07	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.91	22.09	22.05	23.70
		1	50	21.89	22.11	21.91	23.70
		1	99	21.97	21.99	21.96	23.70
		50	0	21.79	21.97	21.94	23.50
		50	25	21.88	21.95	21.92	23.50
		50	50	21.89	21.95	21.95	23.50
		100	0	21.89	21.94	21.97	23.50
	16QAM	1	0	22.01	22.13	22.14	23.50
		1	50	22.00	22.19	22.08	23.50
		1	99	22.12	22.17	22.10	23.50
		50	0	20.78	20.94	20.96	22.50
		50	25	20.87	20.96	20.94	22.50
		50	50	20.87	20.92	20.94	22.50
		100	0	20.87	20.94	20.94	22.50
	64QAM	1	0	20.78	21.02	21.09	22.50
		1	50	20.80	21.06	21.08	22.50
		1	99	20.89	21.00	20.98	22.50
		50	0	19.81	19.98	19.97	21.50
		50	25	19.92	20.01	19.99	21.50
		50	50	19.91	20.00	20.00	21.50
		100	0	19.87	19.98	19.97	21.50

LTE Band 2							
Hotspot on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.25	21.53	21.41	23.00
		1	2	21.24	21.51	21.35	23.00
		1	5	21.34	21.47	21.41	23.00
		3	0	21.32	21.61	21.57	23.00
		3	2	21.42	21.58	21.59	23.00
		3	3	21.47	21.60	21.58	23.00
		6	0	21.37	21.62	21.59	23.00
	16QAM	1	0	21.55	21.73	21.79	23.00
		1	2	21.52	21.70	21.71	23.00
		1	5	21.66	21.81	21.66	23.00
		3	0	21.46	21.61	21.61	23.00
		3	2	21.58	21.67	21.68	23.00
		3	3	21.59	21.68	21.65	23.00
		6	0	20.92	21.06	21.09	22.50
	64QAM	1	0	20.98	21.14	21.20	22.50
		1	2	20.89	21.08	21.09	22.50
		1	5	20.89	21.13	21.03	22.50
		3	0	20.81	20.96	20.98	22.50
		3	2	20.88	21.02	21.01	22.50
		3	3	20.89	21.02	20.99	22.50
		6	0	19.95	20.09	20.10	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.23	21.46	21.39	23.00
		1	7	21.24	21.51	21.34	23.00
		1	14	21.31	21.45	21.37	23.00
		8	0	21.30	21.57	21.54	23.00
		8	4	21.40	21.54	21.56	23.00
		8	7	21.43	21.56	21.55	23.00
		15	0	21.36	21.55	21.54	23.00
	16QAM	1	0	21.54	21.70	21.74	23.00
		1	7	21.51	21.69	21.68	23.00
		1	14	21.64	21.76	21.64	23.00
		8	0	20.82	20.99	20.98	22.50
		8	4	20.92	21.02	21.02	22.50
		8	7	20.94	21.01	21.01	22.50
		15	0	20.91	21.02	21.04	22.50
	64QAM	1	0	20.93	21.09	21.15	22.50
		1	7	20.86	21.05	21.05	22.50

		1	14	20.86	21.05	21.00	22.50
		8	0	19.87	20.04	20.05	21.50
		8	4	19.92	20.07	20.05	21.50
		8	7	19.94	20.05	20.05	21.50
		15	0	19.94	20.05	20.05	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.20	21.44	21.35	23.00
		1	13	21.22	21.47	21.31	23.00
		1	24	21.28	21.40	21.33	23.00
		12	0	21.27	21.52	21.50	23.00
		12	6	21.38	21.50	21.51	23.00
		12	13	21.41	21.54	21.51	23.00
		25	0	21.36	21.54	21.52	23.00
	16QAM	1	0	21.54	21.66	21.71	23.00
		1	13	21.51	21.67	21.65	23.00
		1	24	21.61	21.74	21.60	23.00
		12	0	20.80	20.95	20.95	22.50
		12	6	20.89	20.97	20.98	22.50
		12	13	20.91	20.96	20.97	22.50
		25	0	20.89	20.98	20.99	22.50
	64QAM	1	0	20.90	21.09	21.12	22.50
		1	13	20.83	21.07	21.02	22.50
		1	24	20.87	21.03	20.96	22.50
		12	0	19.85	20.00	20.06	21.50
		12	6	19.89	20.02	20.01	21.50
		12	13	19.91	20.00	20.01	21.50
		25	0	19.92	20.01	20.00	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.22	21.45	21.38	23.00
		1	25	21.25	21.52	21.35	23.00
		1	49	21.30	21.44	21.36	23.00
		25	0	21.30	21.57	21.54	23.00
		25	13	21.41	21.55	21.55	23.00
		25	25	21.43	21.58	21.56	23.00
		50	0	21.40	21.56	21.56	23.00
	16QAM	1	0	21.58	21.69	21.73	23.00
		1	25	21.55	21.71	21.68	23.00
		1	49	21.64	21.76	21.63	23.00
		25	0	20.83	21.00	20.99	22.50
		25	13	20.91	21.01	21.01	22.50
		25	25	20.94	21.01	21.01	22.50

	64QAM	50	0	20.92	21.03	21.03	22.50
		1	0	20.92	21.08	21.14	22.50
		1	25	20.86	21.07	21.05	22.50
		1	49	20.86	21.05	20.99	22.50
		25	0	19.88	20.05	20.06	21.50
		25	13	19.91	20.06	20.04	21.50
		25	25	19.94	20.05	20.05	21.50
		50	0	19.95	20.06	20.04	21.50
		50	0	19.95	20.06	20.04	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.21	21.41	21.36	23.00
		1	38	21.23	21.51	21.32	23.00
		1	74	21.27	21.39	21.32	23.00
		36	0	21.28	21.53	21.51	23.00
		36	18	21.38	21.50	21.51	23.00
		36	39	21.40	21.55	21.52	23.00
		75	0	21.38	21.52	21.51	23.00
	16QAM	1	0	21.56	21.67	21.71	23.00
		1	38	21.53	21.68	21.66	23.00
		1	74	21.62	21.72	21.60	23.00
		36	0	20.80	20.98	20.96	22.50
		36	18	20.88	20.96	20.97	22.50
		36	39	20.92	20.97	20.98	22.50
		75	0	20.89	20.98	20.99	22.50
	64QAM	1	0	20.87	21.06	21.12	22.50
		1	38	20.84	21.04	21.03	22.50
		1	74	20.87	21.04	21.00	22.50
		36	0	19.87	20.07	20.07	21.50
		36	18	19.89	20.03	20.03	21.50
		36	39	19.92	20.01	20.02	21.50
		75	0	19.92	20.01	20.00	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.18	21.37	21.33	23.00
		1	50	21.22	21.47	21.30	23.00
		1	99	21.25	21.38	21.29	23.00
		50	0	21.25	21.48	21.47	23.00
		50	25	21.36	21.46	21.48	23.00
		50	50	21.37	21.50	21.48	23.00
		100	0	21.35	21.47	21.47	23.00
	16QAM	1	0	21.53	21.63	21.66	23.00
		1	50	21.50	21.66	21.62	23.00
		1	99	21.59	21.69	21.58	23.00

		50	0	20.77	20.94	20.93	22.50
		50	25	20.85	20.94	20.94	22.50
		50	50	20.89	20.92	20.94	22.50
		100	0	20.87	20.94	20.96	22.50
	64QAM	1	0	20.85	21.02	21.07	22.50
		1	50	20.80	21.02	20.99	22.50
		1	99	20.81	20.98	20.94	22.50
		50	0	19.82	19.99	20.00	21.50
		50	25	19.85	19.99	19.97	21.50
		50	50	19.89	19.96	19.98	21.50
		100	0	19.90	19.97	19.97	21.50

LTE Band 2							
Receiver on&Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	14.37	14.56	14.36	16.10
		1	2	14.35	14.39	14.37	16.10
		1	5	14.41	14.41	14.38	16.10
		3	0	14.47	14.55	14.56	16.10
		3	2	14.53	14.53	14.55	16.10
		3	3	14.55	14.53	14.52	16.10
		6	0	14.50	14.55	14.60	16.10
	16QAM	1	0	14.70	14.71	14.80	16.10
		1	2	14.67	14.70	14.66	16.10
		1	5	14.68	14.75	14.66	16.10
		3	0	14.47	14.48	14.51	16.10
		3	2	14.56	14.54	14.57	16.10
		3	3	14.52	14.53	14.54	16.10
		6	0	14.51	14.55	14.57	16.10
	64QAM	1	0	14.50	14.60	14.74	16.10
		1	2	14.47	14.57	14.65	16.10
		1	5	14.51	14.50	14.63	16.10
		3	0	14.49	14.50	14.57	16.10
		3	2	14.60	14.60	14.61	16.10
		3	3	14.52	14.56	14.59	16.10
		6	0	14.52	14.53	14.59	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	14.35	14.49	14.34	16.10
		1	7	14.35	14.39	14.36	16.10
		1	14	14.38	14.39	14.34	16.10
		8	0	14.45	14.51	14.53	16.10

		8	4	14.51	14.49	14.52	16.10
		8	7	14.51	14.49	14.49	16.10
		15	0	14.49	14.48	14.55	16.10
	16QAM	1	0	14.69	14.68	14.75	16.10
		1	7	14.66	14.69	14.63	16.10
		1	14	14.66	14.70	14.64	16.10
		8	0	14.44	14.47	14.49	16.10
		8	4	14.52	14.51	14.53	16.10
		8	7	14.50	14.49	14.51	16.10
		15	0	14.49	14.51	14.54	16.10
	64QAM	1	0	14.45	14.53	14.69	16.10
		1	7	14.44	14.52	14.62	16.10
		1	14	14.45	14.45	14.61	16.10
		8	0	14.46	14.49	14.51	16.10
		8	4	14.56	14.57	14.57	16.10
		8	7	14.50	14.52	14.56	16.10
		15	0	14.50	14.49	14.56	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	14.32	14.47	14.30	16.10
		1	13	14.33	14.35	14.33	16.10
		1	24	14.35	14.34	14.30	16.10
		12	0	14.42	14.46	14.49	16.10
		12	6	14.49	14.45	14.47	16.10
		12	13	14.49	14.47	14.45	16.10
		25	0	14.49	14.47	14.53	16.10
	16QAM	1	0	14.69	14.64	14.72	16.10
		1	13	14.66	14.67	14.60	16.10
		1	24	14.63	14.68	14.60	16.10
		12	0	14.42	14.43	14.46	16.10
		12	6	14.49	14.46	14.49	16.10
		12	13	14.47	14.44	14.47	16.10
		25	0	14.47	14.47	14.49	16.10
	64QAM	1	0	14.42	14.53	14.66	16.10
		1	13	14.41	14.54	14.59	16.10
		1	24	14.46	14.43	14.57	16.10
		12	0	14.44	14.45	14.52	16.10
		12	6	14.53	14.52	14.53	16.10
		12	13	14.47	14.47	14.52	16.10
		25	0	14.48	14.45	14.51	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	14.34	14.48	14.33	16.10

		1	25	14.36	14.40	14.37	16.10
		1	49	14.37	14.38	14.33	16.10
		25	0	14.45	14.51	14.53	16.10
		25	13	14.52	14.50	14.51	16.10
		25	25	14.51	14.51	14.50	16.10
		50	0	14.53	14.49	14.57	16.10
	16QAM	1	0	14.73	14.67	14.74	16.10
		1	25	14.70	14.71	14.63	16.10
		1	49	14.66	14.70	14.63	16.10
		25	0	14.45	14.48	14.50	16.10
		25	13	14.51	14.50	14.52	16.10
		25	25	14.50	14.49	14.51	16.10
		50	0	14.50	14.52	14.53	16.10
	64QAM	1	0	14.44	14.52	14.68	16.10
		1	25	14.44	14.54	14.62	16.10
		1	49	14.45	14.45	14.60	16.10
		25	0	14.47	14.50	14.52	16.10
		25	13	14.55	14.56	14.56	16.10
		25	25	14.50	14.52	14.56	16.10
		50	0	14.51	14.50	14.55	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	14.33	14.44	14.31	16.10
		1	38	14.34	14.39	14.34	16.10
		1	74	14.34	14.33	14.29	16.10
		36	0	14.43	14.47	14.50	16.10
		36	18	14.49	14.45	14.47	16.10
		36	39	14.48	14.48	14.46	16.10
		75	0	14.51	14.45	14.52	16.10
	16QAM	1	0	14.71	14.65	14.72	16.10
		1	38	14.68	14.68	14.61	16.10
		1	74	14.64	14.66	14.60	16.10
		36	0	14.42	14.46	14.47	16.10
		36	18	14.48	14.45	14.48	16.10
		36	39	14.48	14.45	14.48	16.10
		75	0	14.47	14.47	14.49	16.10
	64QAM	1	0	14.39	14.50	14.66	16.10
		1	38	14.42	14.51	14.60	16.10
		1	74	14.46	14.44	14.61	16.10
		36	0	14.46	14.52	14.53	16.10
		36	18	14.53	14.53	14.55	16.10
		36	39	14.48	14.48	14.53	16.10
		75	0	14.48	14.45	14.51	16.10

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	14.30	14.40	14.28	16.10
		1	50	14.33	14.35	14.32	16.10
		1	99	14.32	14.32	14.26	16.10
		50	0	14.40	14.42	14.46	16.10
		50	25	14.47	14.41	14.44	16.10
		50	50	14.45	14.43	14.42	16.10
		100	0	14.48	14.40	14.48	16.10
	16QAM	1	0	14.68	14.61	14.67	16.10
		1	50	14.65	14.66	14.57	16.10
		1	99	14.61	14.63	14.58	16.10
		50	0	14.39	14.42	14.44	16.10
		50	25	14.45	14.43	14.45	16.10
		50	50	14.45	14.40	14.44	16.10
		100	0	14.45	14.43	14.46	16.10
	64QAM	1	0	14.37	14.46	14.61	16.10
		1	50	14.38	14.49	14.56	16.10
		1	99	14.40	14.38	14.55	16.10
		50	0	14.41	14.44	14.46	16.10
		50	25	14.49	14.49	14.49	16.10
		50	50	14.45	14.43	14.49	16.10
		100	0	14.46	14.41	14.48	16.10

LTE Band 2							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	19.41	19.47	19.44	21.10
		1	2	19.39	19.42	19.34	21.10
		1	5	19.40	19.44	19.45	21.10
		3	0	19.46	19.56	19.55	21.10
		3	2	19.53	19.55	19.54	21.10
		3	3	19.54	19.52	19.55	21.10
		6	0	19.51	19.54	19.61	21.10
	16QAM	1	0	19.76	19.81	19.80	21.10
		1	2	19.62	19.65	19.71	21.10
		1	5	19.62	19.64	19.71	21.10
		3	0	19.51	19.54	19.55	21.10
		3	2	19.60	19.53	19.58	21.10
		3	3	19.55	19.55	19.56	21.10
		6	0	19.55	19.59	19.58	21.10
	64QAM	1	0	19.69	19.71	19.70	21.10

		1	2	19.66	19.65	19.60	21.10
		1	5	19.58	19.60	19.70	21.10
		3	0	19.81	19.80	19.85	21.10
		3	2	19.94	19.86	19.91	21.10
		3	3	19.88	19.90	19.89	21.10
		6	0	18.93	18.97	19.00	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	19.38	19.43	19.41	21.10
		1	7	19.38	19.38	19.32	21.10
		1	14	19.38	19.43	19.42	21.10
		8	0	19.43	19.51	19.51	21.10
		8	4	19.51	19.51	19.51	21.10
		8	7	19.51	19.47	19.51	21.10
		15	0	19.48	19.49	19.57	21.10
	16QAM	1	0	19.73	19.77	19.75	21.10
		1	7	19.59	19.63	19.67	21.10
		1	14	19.59	19.61	19.69	21.10
		8	0	19.48	19.50	19.52	21.10
		8	4	19.57	19.51	19.55	21.10
		8	7	19.52	19.50	19.52	21.10
		15	0	19.53	19.55	19.55	21.10
	64QAM	1	0	19.67	19.67	19.65	21.10
		1	7	19.62	19.63	19.56	21.10
		1	14	19.52	19.54	19.64	21.10
		8	0	18.87	18.88	18.92	20.50
		8	4	18.98	18.91	18.95	20.50
		8	7	18.93	18.93	18.95	20.50
		15	0	18.92	18.93	18.95	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	19.35	19.41	19.37	21.10
		1	13	19.36	19.34	19.29	21.10
		1	24	19.35	19.38	19.38	21.10
		12	0	19.40	19.46	19.47	21.10
		12	6	19.49	19.47	19.46	21.10
		12	13	19.49	19.45	19.47	21.10
		25	0	19.48	19.48	19.55	21.10
	16QAM	1	0	19.73	19.73	19.72	21.10
		1	13	19.59	19.61	19.64	21.10
		1	24	19.56	19.59	19.65	21.10
		12	0	19.46	19.46	19.49	21.10
		12	6	19.54	19.46	19.51	21.10

		12	13	19.49	19.45	19.48	21.10
		25	0	19.51	19.51	19.50	21.10
	64QAM	1	0	19.64	19.67	19.62	21.10
		1	13	19.59	19.65	19.53	21.10
		1	24	19.53	19.52	19.60	21.10
		12	0	18.85	18.84	18.93	20.50
		12	6	18.95	18.86	18.91	20.50
		12	13	18.90	18.88	18.91	20.50
		25	0	18.90	18.89	18.90	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	19.37	19.42	19.40	21.10
		1	25	19.39	19.39	19.33	21.10
		1	49	19.37	19.42	19.41	21.10
		25	0	19.43	19.51	19.51	21.10
		25	13	19.52	19.52	19.50	21.10
		25	25	19.51	19.49	19.52	21.10
		50	0	19.52	19.50	19.59	21.10
	16QAM	1	0	19.77	19.76	19.74	21.10
		1	25	19.63	19.65	19.67	21.10
		1	49	19.59	19.61	19.68	21.10
		25	0	19.49	19.51	19.53	21.10
		25	13	19.56	19.50	19.54	21.10
		25	25	19.52	19.50	19.52	21.10
		50	0	19.54	19.56	19.54	21.10
	64QAM	1	0	19.66	19.66	19.64	21.10
		1	25	19.62	19.65	19.56	21.10
		1	49	19.52	19.54	19.63	21.10
		25	0	18.88	18.89	18.93	20.50
		25	13	18.97	18.90	18.94	20.50
		25	25	18.93	18.93	18.95	20.50
		50	0	18.93	18.94	18.94	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	19.36	19.38	19.38	21.10
		1	38	19.37	19.38	19.30	21.10
		1	74	19.34	19.37	19.37	21.10
		36	0	19.41	19.47	19.48	21.10
		36	18	19.49	19.47	19.46	21.10
		36	39	19.48	19.46	19.48	21.10
		75	0	19.50	19.46	19.54	21.10
	16QAM	1	0	19.75	19.74	19.72	21.10
		1	38	19.61	19.62	19.65	21.10

		1	74	19.57	19.57	19.65	21.10
		36	0	19.46	19.49	19.50	21.10
		36	18	19.53	19.45	19.50	21.10
		36	39	19.50	19.46	19.49	21.10
		75	0	19.51	19.51	19.50	21.10
	64QAM	1	0	19.61	19.64	19.62	21.10
		1	38	19.60	19.62	19.54	21.10
		1	74	19.53	19.53	19.64	21.10
		36	0	18.87	18.91	18.94	20.50
		36	18	18.95	18.87	18.93	20.50
		36	39	18.91	18.89	18.92	20.50
		75	0	18.90	18.89	18.90	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	19.33	19.34	19.35	21.10
		1	50	19.48	19.34	19.28	21.10
		1	99	19.32	19.48	19.34	21.10
		50	0	19.38	19.42	19.38	21.10
		50	25	19.47	19.43	19.20	21.10
		50	50	19.45	19.41	19.25	21.10
		100	0	19.47	19.41	19.50	21.10
	16QAM	1	0	19.72	19.70	19.67	21.10
		1	50	19.58	19.60	19.61	21.10
		1	99	19.54	19.54	19.63	21.10
		50	0	19.43	19.45	19.47	21.10
		50	25	19.50	19.43	19.47	21.10
		50	50	19.47	19.41	19.45	21.10
		100	0	19.49	19.47	19.47	21.10
	64QAM	1	0	19.59	19.60	19.57	21.10
		1	50	19.56	19.60	19.50	21.10
		1	99	19.47	19.47	19.58	21.10
		50	0	18.82	18.83	18.87	20.50
		50	25	18.91	18.83	18.87	20.50
		50	50	18.88	18.84	18.88	20.50
		100	0	18.88	18.85	18.87	20.50

LTE Band 4							
Receiver on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	22.95	23.09	23.17	24.50
		1	2	22.87	22.94	22.94	24.50
		1	5	22.93	23.00	23.03	24.50

		3	0	22.96	23.07	23.08	24.50
		3	2	23.00	23.07	23.18	24.50
		3	3	23.03	23.09	23.14	24.50
		6	0	22.05	22.13	22.16	23.50
	16QAM	1	0	22.13	22.36	22.48	23.50
		1	2	22.07	22.28	22.39	23.50
		1	5	22.16	22.33	22.34	23.50
		3	0	21.96	22.03	22.03	23.50
		3	2	22.06	22.06	22.18	23.50
		3	3	22.03	22.13	22.10	23.50
		6	0	21.07	21.13	21.16	22.50
	64QAM	1	0	21.18	21.21	21.23	22.50
		1	2	21.25	21.20	21.12	22.50
		1	5	21.11	21.22	21.09	22.50
		3	0	20.95	21.02	21.08	22.50
		3	2	21.09	21.09	21.21	22.50
		3	3	21.03	21.15	21.13	22.50
		6	0	20.08	20.15	20.22	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	22.94	23.11	23.16	24.50
		1	7	22.83	22.93	22.95	24.50
		1	14	22.93	23.00	23.03	24.50
		8	0	22.03	22.14	22.17	23.50
		8	4	22.10	22.13	22.25	23.50
		8	7	22.11	22.18	22.20	23.50
		15	0	22.05	22.16	22.17	23.50
	16QAM	1	0	22.13	22.34	22.48	23.50
		1	7	22.07	22.26	22.40	23.50
		1	14	22.15	22.35	22.33	23.50
		8	0	21.05	21.12	21.12	22.50
		8	4	21.14	21.14	21.26	22.50
		8	7	21.10	21.20	21.19	22.50
		15	0	21.08	21.13	21.14	22.50
	64QAM	1	0	21.18	21.23	21.23	22.50
		1	7	21.25	21.22	21.11	22.50
		1	14	21.14	21.19	21.08	22.50
		8	0	20.04	20.11	20.21	21.50
		8	4	20.17	20.17	20.29	21.50
		8	7	20.10	20.22	20.22	21.50
		15	0	20.09	20.15	20.20	21.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	22.96	23.12	23.19	24.50
		1	13	22.86	22.98	22.99	24.50
		1	24	22.95	23.04	23.06	24.50
		12	0	22.06	22.19	22.21	23.50
		12	6	22.13	22.18	22.29	23.50
		12	13	22.13	22.22	22.25	23.50
		25	0	22.09	22.18	22.21	23.50
	16QAM	1	0	22.17	22.37	22.50	23.50
		1	13	22.11	22.30	22.43	23.50
		1	24	22.18	22.37	22.36	23.50
		12	0	21.08	21.17	21.16	22.50
		12	6	21.16	21.18	21.29	22.50
		12	13	21.13	21.25	21.23	22.50
		25	0	21.11	21.18	21.18	22.50
	64QAM	1	0	21.20	21.22	21.25	22.50
		1	13	21.28	21.22	21.14	22.50
		1	24	21.13	21.21	21.11	22.50
		12	0	20.07	20.16	20.21	21.50
		12	6	20.19	20.21	20.32	21.50
		12	13	20.13	20.27	20.26	21.50
		25	0	20.12	20.20	20.24	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	22.95	23.08	23.17	24.50
		1	25	22.84	22.97	22.96	24.50
		1	49	22.92	22.99	23.02	24.50
		25	0	22.04	22.15	22.18	23.50
		25	13	22.10	22.13	22.25	23.50
		25	25	22.10	22.19	22.21	23.50
		50	0	22.07	22.14	22.16	23.50
	16QAM	1	0	22.15	22.35	22.48	23.50
		1	25	22.09	22.27	22.41	23.50
		1	49	22.16	22.33	22.33	23.50
		25	0	21.05	21.15	21.13	22.50
		25	13	21.13	21.13	21.25	22.50
		25	25	21.11	21.21	21.20	22.50
		50	0	21.08	21.13	21.14	22.50
	64QAM	1	0	21.15	21.20	21.23	22.50
		1	25	21.26	21.19	21.12	22.50
		1	49	21.14	21.20	21.12	22.50
		25	0	20.06	20.18	20.22	21.50

		25	13	20.17	20.18	20.31	21.50
		25	25	20.11	20.23	20.23	21.50
		50	0	20.09	20.15	20.20	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	22.92	23.04	23.14	24.50
		1	38	22.83	22.93	22.94	24.50
		1	74	22.90	22.98	22.99	24.50
		36	0	22.01	22.10	22.14	23.50
		36	18	22.08	22.09	22.22	23.50
		36	39	22.07	22.14	22.17	23.50
		75	0	22.04	22.09	22.12	23.50
	16QAM	1	0	22.12	22.31	22.43	23.50
		1	38	22.06	22.25	22.37	23.50
		1	74	22.13	22.30	22.31	23.50
		36	0	21.02	21.11	21.10	22.50
		36	18	21.10	21.11	21.22	22.50
		36	39	21.08	21.16	21.16	22.50
		75	0	21.06	21.09	21.11	22.50
	64QAM	1	0	21.13	21.16	21.18	22.50
		1	38	21.22	21.17	21.08	22.50
		1	74	21.08	21.14	21.06	22.50
		36	0	20.01	20.10	20.15	21.50
		36	18	20.13	20.14	20.25	21.50
		36	39	20.08	20.18	20.19	21.50
		75	0	20.07	20.11	20.17	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	22.87	22.95	23.08	24.50
		1	50	22.81	22.89	22.90	24.50
		1	99	22.84	22.91	22.91	24.50
		50	0	21.96	22.01	22.07	23.50
		50	25	22.04	22.01	22.14	23.50
		50	50	22.01	22.08	22.10	23.50
		100	0	22.03	22.01	22.05	23.50
	16QAM	1	0	22.11	22.24	22.35	23.50
		1	50	22.05	22.22	22.31	23.50
		1	99	22.08	22.23	22.25	23.50
		50	0	20.97	21.06	21.05	22.50
		50	25	21.03	21.03	21.14	22.50
		50	50	21.03	21.07	21.09	22.50
		100	0	21.02	21.01	21.03	22.50
	64QAM	1	0	21.05	21.09	21.10	22.50

		1	50	21.16	21.14	21.02	22.50
		1	99	21.03	21.07	21.00	22.50
		50	0	19.96	20.05	20.10	21.50
		50	25	20.06	20.06	20.17	21.50
		50	50	20.03	20.09	20.12	21.50
		100	0	20.03	20.03	20.09	21.50

LTE Band 4							
Receiver off-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	21.88	22.06	22.00	23.50
		1	2	21.88	21.91	21.94	23.50
		1	5	21.90	21.87	21.88	23.50
		3	0	22.00	22.10	22.10	23.50
		3	2	22.06	22.12	22.18	23.50
		3	3	22.13	22.14	22.16	23.50
		6	0	22.01	22.01	22.01	23.50
	16QAM	1	0	22.09	22.39	22.37	23.50
		1	2	22.11	22.20	22.23	23.50
		1	5	22.16	22.20	22.22	23.50
		3	0	21.88	21.92	21.98	23.50
		3	2	21.97	21.94	22.03	23.50
		3	3	21.94	22.00	21.97	23.50
		6	0	21.01	21.02	21.02	22.50
	64QAM	1	0	21.17	20.99	21.04	22.50
		1	2	21.06	21.15	21.07	22.50
		1	5	21.11	21.16	21.09	22.50
		3	0	20.88	20.92	20.98	22.50
		3	2	20.99	20.96	21.08	22.50
		3	3	20.97	21.00	21.02	22.50
		6	0	20.02	20.01	20.05	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	21.90	22.10	22.03	23.50
		1	7	21.86	21.94	21.98	23.50
		1	14	21.93	21.92	21.92	23.50
		8	0	21.95	22.07	22.08	23.50
		8	4	22.03	22.07	22.15	23.50
		8	7	22.08	22.10	22.11	23.50
		15	0	22.01	22.05	22.04	23.50
	16QAM	1	0	22.09	22.41	22.40	23.50
		1	7	22.11	22.20	22.27	23.50

		1	14	22.18	22.24	22.25	23.50
		8	0	20.99	21.05	21.10	22.50
		8	4	21.08	21.07	21.15	22.50
		8	7	21.04	21.12	21.10	22.50
		15	0	21.04	21.06	21.05	22.50
	64QAM	1	0	21.20	21.01	21.07	22.50
		1	7	21.09	21.15	21.09	22.50
		1	14	21.13	21.15	21.12	22.50
		8	0	19.99	20.05	20.10	21.50
		8	4	20.10	20.09	20.20	21.50
		8	7	20.07	20.12	20.15	21.50
		15	0	20.05	20.05	20.08	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.87	22.08	21.99	23.50
		1	13	21.84	21.90	21.95	23.50
		1	24	21.90	21.87	21.88	23.50
		12	0	21.92	22.02	22.04	23.50
		12	6	22.01	22.03	22.10	23.50
		12	13	22.06	22.08	22.07	23.50
		25	0	22.01	22.04	22.02	23.50
	16QAM	1	0	22.09	22.37	22.37	23.50
		1	13	22.11	22.18	22.24	23.50
		1	24	22.15	22.22	22.21	23.50
		12	0	20.97	21.01	21.07	22.50
		12	6	21.05	21.02	21.11	22.50
		12	13	21.01	21.07	21.06	22.50
		25	0	21.02	21.02	21.00	22.50
	64QAM	1	0	21.17	21.01	21.04	22.50
		1	13	21.06	21.17	21.06	22.50
		1	24	21.14	21.13	21.08	22.50
		12	0	19.97	20.01	20.11	21.50
		12	6	20.07	20.04	20.16	21.50
		12	13	20.04	20.07	20.11	21.50
		25	0	20.03	20.01	20.03	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.89	22.09	22.02	23.50
		1	25	21.87	21.95	21.99	23.50
		1	49	21.92	21.91	21.91	23.50
		25	0	21.95	22.07	22.08	23.50
		25	13	22.04	22.08	22.14	23.50
		25	25	22.08	22.12	22.12	23.50

	16QAM	50	0	22.05	22.06	22.06	23.50
		1	0	22.13	22.40	22.39	23.50
		1	25	22.15	22.22	22.27	23.50
		1	49	22.18	22.24	22.24	23.50
		25	0	21.00	21.06	21.11	22.50
		25	13	21.07	21.06	21.14	22.50
		25	25	21.04	21.12	21.10	22.50
		50	0	21.05	21.07	21.04	22.50
	64QAM	1	0	21.19	21.00	21.06	22.50
		1	25	21.09	21.17	21.09	22.50
		1	49	21.13	21.15	21.11	22.50
		25	0	20.00	20.06	20.11	21.50
		25	13	20.09	20.08	20.19	21.50
		25	25	20.07	20.12	20.15	21.50
		50	0	20.06	20.06	20.07	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	21.88	22.05	22.00	23.50
		1	38	21.85	21.94	21.96	23.50
		1	74	21.89	21.86	21.87	23.50
		36	0	21.93	22.03	22.05	23.50
		36	18	22.01	22.03	22.10	23.50
		36	39	22.05	22.09	22.08	23.50
		75	0	22.03	22.02	22.01	23.50
	16QAM	1	0	22.11	22.38	22.37	23.50
		1	38	22.13	22.19	22.25	23.50
		1	74	22.16	22.20	22.21	23.50
		36	0	20.97	21.04	21.08	22.50
		36	18	21.04	21.01	21.10	22.50
		36	39	21.02	21.08	21.07	22.50
		75	0	21.02	21.02	21.00	22.50
	64QAM	1	0	21.14	20.98	21.04	22.50
		1	38	21.07	21.14	21.07	22.50
		1	74	21.14	21.14	21.12	22.50
		36	0	19.99	20.08	20.12	21.50
		36	18	20.07	20.05	20.18	21.50
		36	39	20.05	20.08	20.12	21.50
		75	0	20.03	20.01	20.03	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.85	22.01	21.97	23.50
		1	50	21.84	21.90	21.94	23.50
		1	99	21.87	21.85	21.84	23.50

		50	0	21.90	21.98	22.01	23.50
		50	25	21.99	21.99	22.07	23.50
		50	50	22.02	22.04	22.04	23.50
		100	0	22.00	21.97	21.97	23.50
	16QAM	1	0	22.08	22.34	22.32	23.50
		1	50	22.10	22.17	22.21	23.50
		1	99	22.13	22.17	22.19	23.50
		50	0	20.94	21.00	21.05	22.50
		50	25	21.01	20.99	21.07	22.50
		50	50	20.99	21.03	21.03	22.50
		100	0	21.00	20.98	20.97	22.50
	64QAM	1	0	21.12	20.94	20.99	22.50
		1	50	21.03	21.12	21.03	22.50
		1	99	21.08	21.08	21.06	22.50
		50	0	19.94	20.00	20.05	21.50
		50	25	20.03	20.01	20.12	21.50
		50	50	20.02	20.03	20.08	21.50
		100	0	20.01	19.97	20.00	21.50

LTE Band 4							
Hotspot on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	20.86	20.98	21.06	22.50
		1	2	20.85	20.91	20.96	22.50
		1	5	20.81	20.89	20.97	22.50
		3	0	20.88	20.95	21.01	22.50
		3	2	20.90	20.96	21.08	22.50
		3	3	20.98	21.00	21.06	22.50
		6	0	20.98	21.02	21.04	22.50
	16QAM	1	0	21.13	21.31	21.42	22.50
		1	2	21.09	21.22	21.26	22.50
		1	5	21.08	21.24	21.22	22.50
		3	0	20.92	20.94	20.99	22.50
		3	2	21.00	20.98	21.06	22.50
		3	3	20.98	21.04	21.00	22.50
		6	0	20.99	21.02	21.02	22.50
	64QAM	1	0	21.15	21.21	21.04	22.50
		1	2	21.10	21.10	21.16	22.50
		1	5	21.13	21.06	21.05	22.50
		3	0	20.87	20.93	20.96	22.50
		3	2	20.98	20.96	21.08	22.50
		3	3	20.94	21.04	20.99	22.50

		6	0	20.00	20.06	20.06	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	20.88	21.02	21.09	22.50
		1	7	20.83	20.94	21.00	22.50
		1	14	20.84	20.94	21.01	22.50
		8	0	20.94	21.03	21.10	22.50
		8	4	20.98	21.02	21.16	22.50
		8	7	21.04	21.07	21.12	22.50
		15	0	20.98	21.06	21.07	22.50
	16QAM	1	0	21.13	21.33	21.45	22.50
		1	7	21.09	21.22	21.30	22.50
		1	14	21.10	21.28	21.25	22.50
		8	0	20.99	21.03	21.07	22.50
		8	4	21.07	21.07	21.14	22.50
		8	7	21.04	21.12	21.09	22.50
		15	0	21.02	21.06	21.05	22.50
	64QAM	1	0	21.18	21.23	21.07	22.50
		1	7	21.13	21.10	21.18	22.50
		1	14	21.15	21.05	21.08	22.50
		8	0	19.98	20.06	20.08	21.50
		8	4	20.09	20.09	20.20	21.50
		8	7	20.04	20.16	20.12	21.50
		15	0	20.03	20.10	20.09	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	20.85	21.00	21.05	22.50
		1	13	20.81	20.90	20.97	22.50
		1	24	20.81	20.89	20.97	22.50
		12	0	20.91	20.98	21.06	22.50
		12	6	20.96	20.98	21.11	22.50
		12	13	21.02	21.05	21.08	22.50
		25	0	20.98	21.05	21.05	22.50
	16QAM	1	0	21.13	21.29	21.42	22.50
		1	13	21.09	21.20	21.27	22.50
		1	24	21.07	21.26	21.21	22.50
		12	0	20.97	20.99	21.04	22.50
		12	6	21.04	21.02	21.10	22.50
		12	13	21.01	21.07	21.05	22.50
		25	0	21.00	21.02	21.00	22.50
	64QAM	1	0	21.15	21.23	21.04	22.50
		1	13	21.10	21.12	21.15	22.50
		1	24	21.16	21.03	21.04	22.50

		12	0	19.96	20.02	20.09	21.50
		12	6	20.06	20.04	20.16	21.50
		12	13	20.01	20.11	20.08	21.50
		25	0	20.01	20.06	20.04	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	20.87	21.01	21.08	22.50
		1	25	20.84	20.95	21.01	22.50
		1	49	20.83	20.93	21.00	22.50
		25	0	20.94	21.03	21.10	22.50
		25	13	20.99	21.03	21.15	22.50
		25	25	21.04	21.09	21.13	22.50
		50	0	21.02	21.07	21.09	22.50
	16QAM	1	0	21.17	21.32	21.44	22.50
		1	25	21.13	21.24	21.30	22.50
		1	49	21.10	21.28	21.24	22.50
		25	0	21.00	21.04	21.08	22.50
		25	13	21.06	21.06	21.13	22.50
		25	25	21.04	21.12	21.09	22.50
		50	0	21.03	21.07	21.04	22.50
	64QAM	1	0	21.17	21.22	21.06	22.50
		1	25	21.13	21.12	21.18	22.50
		1	49	21.15	21.05	21.07	22.50
		25	0	19.99	20.07	20.09	21.50
		25	13	20.08	20.08	20.19	21.50
		25	25	20.04	20.16	20.12	21.50
		50	0	20.04	20.11	20.08	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	20.86	20.97	21.06	22.50
		1	38	20.82	20.94	20.98	22.50
		1	74	20.80	20.88	20.96	22.50
		36	0	20.92	20.99	21.07	22.50
		36	18	20.96	20.98	21.11	22.50
		36	39	21.01	21.06	21.09	22.50
		75	0	21.00	21.03	21.04	22.50
	16QAM	1	0	21.15	21.30	21.42	22.50
		1	38	21.11	21.21	21.28	22.50
		1	74	21.08	21.24	21.21	22.50
		36	0	20.97	21.02	21.05	22.50
		36	18	21.03	21.01	21.09	22.50
		36	39	21.02	21.08	21.06	22.50
		75	0	21.00	21.02	21.00	22.50

	64QAM	1	0	21.12	21.20	21.04	22.50
		1	38	21.11	21.09	21.16	22.50
		1	74	21.16	21.04	21.08	22.50
		36	0	19.98	20.09	20.10	21.50
		36	18	20.06	20.05	20.18	21.50
		36	39	20.02	20.12	20.09	21.50
		75	0	20.01	20.06	20.04	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	20.83	20.93	21.03	22.50
		1	50	20.81	20.90	20.96	22.50
		1	99	20.78	20.87	20.93	22.50
		50	0	20.89	20.94	21.03	22.50
		50	25	20.94	20.94	21.08	22.50
		50	50	20.98	21.01	21.05	22.50
		100	0	20.97	20.98	21.00	22.50
	16QAM	1	0	21.12	21.26	21.37	22.50
		1	50	21.08	21.19	21.24	22.50
		1	99	21.05	21.21	21.19	22.50
		50	0	20.94	20.98	21.02	22.50
		50	25	21.00	20.99	21.06	22.50
		50	50	20.99	21.03	21.02	22.50
		100	0	20.98	20.98	20.97	22.50
	64QAM	1	0	21.10	21.16	20.99	22.50
		1	50	21.07	21.07	21.12	22.50
		1	99	21.10	20.98	21.02	22.50
		50	0	19.93	20.01	20.03	21.50
		50	25	20.02	20.01	20.12	21.50
		50	50	19.99	20.07	20.05	21.50
		100	0	19.99	20.02	20.01	21.50

LTE Band 4							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	19.42	19.40	19.37	20.60
		1	2	19.22	19.24	19.22	20.60
		1	5	19.26	19.27	19.23	20.60
		3	0	19.39	19.51	19.46	20.60
		3	2	19.39	19.46	19.41	20.60
		3	3	19.36	19.41	19.39	20.60
		6	0	19.38	19.45	19.42	20.60
	16QAM	1	0	19.55	19.68	19.59	20.60

		1	2	19.50	19.50	19.49	20.60
		1	5	19.54	19.56	19.48	20.60
		3	0	19.40	19.42	19.42	20.60
		3	2	19.45	19.46	19.43	20.60
		3	3	19.29	19.44	19.38	20.60
		6	0	19.38	19.47	19.44	20.60
		1	0	19.53	19.66	19.68	20.60
	64QAM	1	2	19.43	19.47	19.54	20.60
		1	5	19.34	19.51	19.50	20.60
		3	0	19.31	19.35	19.38	20.60
		3	2	19.41	19.39	19.41	20.60
		3	3	19.22	19.39	19.33	20.60
		6	0	19.32	19.41	19.38	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	19.41	19.36	19.35	20.60
		1	7	19.20	19.23	19.19	20.60
		1	14	19.23	19.22	19.19	20.60
		8	0	19.37	19.47	19.43	20.60
		8	4	19.36	19.41	19.37	20.60
		8	7	19.33	19.38	19.35	20.60
		15	0	19.36	19.41	19.37	20.60
		1	0	19.53	19.66	19.57	20.60
	16QAM	1	7	19.48	19.47	19.47	20.60
		1	14	19.52	19.52	19.45	20.60
		8	0	19.37	19.40	19.39	20.60
		8	4	19.42	19.41	19.39	20.60
		8	7	19.27	19.40	19.35	20.60
		15	0	19.35	19.42	19.40	20.60
		1	0	19.48	19.64	19.66	20.60
		1	7	19.41	19.44	19.52	20.60
	64QAM	1	14	19.35	19.50	19.51	20.60
		8	0	19.30	19.37	19.39	20.50
		8	4	19.39	19.36	19.40	20.50
		8	7	19.20	19.35	19.30	20.50
		15	0	19.29	19.36	19.34	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	19.38	19.32	19.32	20.60
		1	13	19.19	19.19	19.17	20.60
		1	24	19.21	19.21	19.16	20.60
		12	0	19.34	19.42	19.39	20.60
		12	6	19.34	19.37	19.34	20.60

		12	13	19.30	19.33	19.31	20.60
		25	0	19.33	19.36	19.33	20.60
	16QAM	1	0	19.50	19.62	19.52	20.60
		1	13	19.45	19.45	19.43	20.60
		1	24	19.49	19.49	19.43	20.60
		12	0	19.34	19.36	19.36	20.60
		12	6	19.39	19.39	19.36	20.60
		12	13	19.24	19.35	19.31	20.60
		25	0	19.33	19.38	19.37	20.60
		1	0	19.46	19.60	19.61	20.60
	64QAM	1	13	19.37	19.42	19.48	20.60
		1	24	19.29	19.44	19.45	20.60
		12	0	19.25	19.29	19.32	20.50
		12	6	19.35	19.32	19.34	20.50
		12	13	19.17	19.30	19.26	20.50
		25	0	19.27	19.32	19.31	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	19.35	19.30	19.28	20.60
		1	25	19.17	19.15	19.14	20.60
		1	49	19.18	19.16	19.12	20.60
		25	0	19.31	19.37	19.35	20.60
		25	13	19.32	19.33	19.29	20.60
		25	25	19.28	19.31	19.27	20.60
		50	0	19.33	19.35	19.31	20.60
	16QAM	1	0	19.50	19.58	19.49	20.60
		1	25	19.45	19.43	19.40	20.60
		1	49	19.46	19.47	19.39	20.60
		25	0	19.32	19.32	19.33	20.60
		25	13	19.36	19.34	19.32	20.60
		25	25	19.21	19.30	19.27	20.60
		50	0	19.31	19.34	19.32	20.60
	64QAM	1	0	19.43	19.60	19.58	20.60
		1	25	19.34	19.44	19.45	20.60
		1	49	19.30	19.42	19.41	20.60
		25	0	19.23	19.25	19.33	20.50
		25	13	19.32	19.27	19.30	20.50
		25	25	19.14	19.25	19.22	20.50
		50	0	19.25	19.28	19.26	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	19.37	19.31	19.31	20.60
		1	38	19.20	19.20	19.18	20.60

		1	74	19.20	19.20	19.15	20.60
		36	0	19.34	19.42	19.39	20.60
		36	18	19.35	19.38	19.33	20.60
		36	39	19.30	19.35	19.32	20.60
		75	0	19.37	19.37	19.35	20.60
	16QAM	1	0	19.54	19.61	19.51	20.60
		1	38	19.49	19.47	19.43	20.60
		1	74	19.49	19.49	19.42	20.60
		36	0	19.35	19.37	19.37	20.60
		36	18	19.38	19.38	19.35	20.60
		36	39	19.24	19.35	19.31	20.60
		75	0	19.34	19.39	19.36	20.60
	64QAM	1	0	19.45	19.59	19.60	20.60
		1	38	19.37	19.44	19.48	20.60
		1	74	19.29	19.44	19.44	20.60
		36	0	19.26	19.30	19.33	20.50
		36	18	19.34	19.31	19.33	20.50
		36	39	19.17	19.30	19.26	20.50
		75	0	19.28	19.33	19.30	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	19.33	19.23	19.26	20.60
		1	50	19.17	19.15	19.13	20.60
		1	99	19.15	19.14	19.08	20.60
		50	0	19.29	19.33	19.32	20.60
		50	25	19.30	19.29	19.26	20.60
		50	50	19.24	19.27	19.24	20.60
		100	0	19.32	19.28	19.26	20.60
	16QAM	1	0	19.49	19.55	19.44	20.60
		1	50	19.44	19.42	19.37	20.60
		1	99	19.44	19.42	19.37	20.60
		50	0	19.29	19.31	19.31	20.60
		50	25	19.32	19.31	19.28	20.60
		50	50	19.19	19.26	19.24	20.60
		100	0	19.29	19.30	19.29	20.60
	64QAM	1	0	19.38	19.53	19.53	20.60
		1	50	19.31	19.39	19.42	20.60
		1	99	19.24	19.37	19.39	20.60
		50	0	19.20	19.24	19.27	20.50
		50	25	19.28	19.24	19.26	20.50
		50	50	19.12	19.21	19.19	20.50
		100	0	19.23	19.24	19.23	20.50

LTE Band 4							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	21.28	21.31	21.30	22.60
		1	2	21.19	21.18	21.16	22.60
		1	5	21.11	21.20	21.08	22.60
		3	0	21.27	21.31	21.23	22.60
		3	2	21.22	21.26	21.24	22.60
		3	3	21.15	21.24	21.21	22.60
		6	0	21.18	21.25	21.24	22.50
	16QAM	1	0	21.37	21.39	21.45	22.50
		1	2	21.33	21.29	21.29	22.50
		1	5	21.38	21.28	21.27	22.50
		3	0	21.16	21.12	21.13	22.50
		3	2	21.16	21.14	21.15	22.50
		3	3	21.07	21.12	21.07	22.50
		6	0	20.18	20.24	20.24	21.50
	64QAM	1	0	20.13	20.26	20.32	21.50
		1	2	20.15	20.14	20.14	21.50
		1	5	20.08	20.15	20.09	21.50
		3	0	20.16	20.14	20.13	21.50
		3	2	20.19	20.17	20.19	21.50
		3	3	20.08	20.16	20.09	21.50
		6	0	19.24	19.24	19.26	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	21.30	21.35	21.33	22.60
		1	7	21.17	21.21	21.20	22.60
		1	14	21.14	21.25	21.12	22.60
		8	0	21.27	21.33	21.26	22.50
		8	4	21.24	21.26	21.26	22.50
		8	7	21.15	21.25	21.21	22.50
		15	0	21.18	21.29	21.27	22.50
	16QAM	1	0	21.37	21.41	21.48	22.50
		1	7	21.33	21.29	21.33	22.50
		1	14	21.40	21.32	21.30	22.50
		8	0	20.27	20.25	20.25	21.50
		8	4	20.27	20.27	20.27	21.50
		8	7	20.17	20.24	20.20	21.50
		15	0	20.21	20.28	20.27	21.50
	64QAM	1	0	20.16	20.28	20.35	21.50
		1	7	20.18	20.14	20.16	21.50

		1	14	20.10	20.14	20.12	21.50
		8	0	19.27	19.27	19.25	20.50
		8	4	19.30	19.30	19.31	20.50
		8	7	19.18	19.28	19.22	20.50
		15	0	19.27	19.28	19.29	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.27	21.33	21.29	22.60
		1	13	21.15	21.17	21.17	22.60
		1	24	21.11	21.20	21.08	22.60
		12	0	21.24	21.28	21.22	22.50
		12	6	21.22	21.22	21.21	22.50
		12	13	21.13	21.23	21.17	22.50
		25	0	21.18	21.28	21.25	22.50
	16QAM	1	0	21.37	21.37	21.45	22.50
		1	13	21.33	21.27	21.30	22.50
		1	24	21.37	21.30	21.26	22.50
		12	0	20.25	20.21	20.22	21.50
		12	6	20.24	20.22	20.23	21.50
		12	13	20.14	20.19	20.16	21.50
		25	0	20.19	20.24	20.22	21.50
	64QAM	1	0	20.13	20.28	20.32	21.50
		1	13	20.15	20.16	20.13	21.50
		1	24	20.11	20.12	20.08	21.50
		12	0	19.25	19.23	19.26	20.50
		12	6	19.27	19.25	19.27	20.50
		12	13	19.15	19.23	19.18	20.50
		25	0	19.25	19.24	19.24	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.29	21.34	21.32	22.60
		1	25	21.18	21.22	21.21	22.60
		1	49	21.13	21.24	21.11	22.60
		25	0	21.27	21.33	21.26	22.50
		25	13	21.25	21.27	21.25	22.50
		25	25	21.15	21.27	21.22	22.50
		50	0	21.22	21.30	21.29	22.50
	16QAM	1	0	21.41	21.40	21.47	22.50
		1	25	21.37	21.31	21.33	22.50
		1	49	21.40	21.32	21.29	22.50
		25	0	20.28	20.26	20.26	21.50
		25	13	20.26	20.26	20.26	21.50
		25	25	20.17	20.24	20.20	21.50

	64QAM	50	0	20.22	20.29	20.26	21.50
		1	0	20.15	20.27	20.34	21.50
		1	25	20.18	20.16	20.16	21.50
		1	49	20.10	20.14	20.11	21.50
		25	0	19.28	19.28	19.26	20.50
		25	13	19.29	19.29	19.30	20.50
		25	25	19.18	19.28	19.22	20.50
		50	0	19.28	19.29	19.28	20.50
		50	0	19.28	19.29	19.28	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	21.28	21.30	21.30	22.60
		1	38	21.16	21.21	21.18	22.60
		1	74	21.10	21.19	21.07	22.60
		36	0	21.25	21.29	21.23	22.50
		36	18	21.22	21.22	21.21	22.50
		36	39	21.12	21.24	21.18	22.50
		75	0	21.20	21.26	21.24	22.50
	16QAM	1	0	21.39	21.38	21.45	22.50
		1	38	21.35	21.28	21.31	22.50
		1	74	21.38	21.28	21.26	22.50
		36	0	20.25	20.24	20.23	21.50
		36	18	20.23	20.21	20.22	21.50
		36	39	20.15	20.20	20.17	21.50
		75	0	20.19	20.24	20.22	21.50
	64QAM	1	0	20.10	20.25	20.32	21.50
		1	38	20.16	20.13	20.14	21.50
		1	74	20.11	20.13	20.12	21.50
		36	0	19.27	19.30	19.27	20.50
		36	18	19.27	19.26	19.29	20.50
		36	39	19.16	19.24	19.19	20.50
		75	0	19.25	19.24	19.24	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.25	21.26	21.27	22.60
		1	50	21.15	21.17	21.16	22.60
		1	99	21.08	21.18	21.04	22.60
		50	0	21.22	21.24	21.19	22.50
		50	25	21.20	21.18	21.18	22.50
		50	50	21.09	21.19	21.14	22.50
		100	0	21.17	21.21	21.20	22.50
	16QAM	1	0	21.36	21.34	21.40	22.50
		1	50	21.32	21.26	21.27	22.50
		1	99	21.35	21.25	21.24	22.50

		50	0	20.22	20.20	20.20	21.50
		50	25	20.20	20.19	20.19	21.50
		50	50	20.12	20.15	20.13	21.50
		100	0	20.17	20.20	20.19	21.50
	64QAM	1	0	20.08	20.21	20.27	21.50
		1	50	20.12	20.11	20.10	21.50
		1	99	20.05	20.07	20.06	21.50
		50	0	19.22	19.22	19.20	20.50
		50	25	19.23	19.22	19.23	20.50
		50	50	19.13	19.19	19.15	20.50
		100	0	19.23	19.20	19.21	20.50

LTE Band 4							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	16.48	16.50	16.51	17.80
		1	2	16.35	16.34	16.29	17.80
		1	5	16.36	16.39	16.29	17.80
		3	0	16.57	16.61	16.61	17.80
		3	2	16.52	16.58	16.57	17.80
		3	3	16.49	16.52	16.55	17.80
		6	0	16.50	16.57	16.61	17.80
	16QAM	1	0	16.66	16.82	16.82	17.80
		1	2	16.63	16.64	16.75	17.80
		1	5	16.63	16.72	16.69	17.80
		3	0	16.55	16.57	16.56	17.80
		3	2	16.58	16.61	16.59	17.80
		3	3	16.48	16.59	16.53	17.80
		6	0	16.53	16.62	16.58	17.80
	64QAM	1	0	16.80	16.72	16.71	17.80
		1	2	16.73	16.57	16.57	17.80
		1	5	16.59	16.63	16.54	17.80
		3	0	16.58	16.59	16.62	17.80
		3	2	16.62	16.64	16.61	17.80
		3	3	16.52	16.61	16.56	17.80
		6	0	16.57	16.65	16.61	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	16.44	16.42	16.46	17.80
		1	7	16.32	16.29	16.24	17.80
		1	14	16.31	16.33	16.22	17.80
		8	0	16.52	16.52	16.54	17.80

		8	4	16.47	16.49	16.50	17.80
		8	7	16.43	16.44	16.47	17.80
		15	0	16.45	16.48	16.52	17.80
	16QAM	1	0	16.61	16.76	16.75	17.80
		1	7	16.58	16.59	16.69	17.80
		1	14	16.58	16.65	16.64	17.80
		8	0	16.49	16.51	16.50	17.80
		8	4	16.52	16.54	16.52	17.80
		8	7	16.43	16.50	16.46	17.80
		15	0	16.48	16.53	16.51	17.80
		1	0	16.73	16.66	16.64	17.80
	64QAM	1	7	16.67	16.52	16.51	17.80
		1	14	16.54	16.56	16.49	17.80
		8	0	16.52	16.53	16.56	17.80
		8	4	16.56	16.57	16.54	17.80
		8	7	16.47	16.52	16.49	17.80
		15	0	16.52	16.56	16.54	17.80
		1	0	16.73	16.66	16.64	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	16.41	16.40	16.42	17.80
		1	13	16.30	16.25	16.21	17.80
		1	24	16.28	16.28	16.18	17.80
		12	0	16.49	16.47	16.50	17.80
		12	6	16.45	16.45	16.45	17.80
		12	13	16.41	16.42	16.43	17.80
		25	0	16.45	16.47	16.50	17.80
	16QAM	1	0	16.61	16.72	16.72	17.80
		1	13	16.58	16.57	16.66	17.80
		1	24	16.55	16.63	16.60	17.80
		12	0	16.47	16.47	16.47	17.80
		12	6	16.49	16.49	16.48	17.80
		12	13	16.40	16.45	16.42	17.80
		25	0	16.46	16.49	16.46	17.80
	64QAM	1	0	16.70	16.66	16.61	17.80
		1	13	16.64	16.54	16.48	17.80
		1	24	16.55	16.54	16.45	17.80
		12	0	16.50	16.49	16.57	17.80
		12	6	16.53	16.52	16.50	17.80
		12	13	16.44	16.47	16.45	17.80
		25	0	16.50	16.52	16.49	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	16.43	16.41	16.45	17.80

		1	25	16.33	16.30	16.25	17.80
		1	49	16.30	16.32	16.21	17.80
		25	0	16.52	16.52	16.54	17.80
		25	13	16.48	16.50	16.49	17.80
		25	25	16.43	16.46	16.48	17.80
		50	0	16.49	16.49	16.54	17.80
	16QAM	1	0	16.65	16.75	16.74	17.80
		1	25	16.62	16.61	16.69	17.80
		1	49	16.58	16.65	16.63	17.80
		25	0	16.50	16.52	16.51	17.80
		25	13	16.51	16.53	16.51	17.80
		25	25	16.43	16.50	16.46	17.80
		50	0	16.49	16.54	16.50	17.80
	64QAM	1	0	16.72	16.65	16.63	17.80
		1	25	16.67	16.54	16.51	17.80
		1	49	16.54	16.56	16.48	17.80
		25	0	16.53	16.54	16.57	17.80
		25	13	16.55	16.56	16.53	17.80
		25	25	16.47	16.52	16.49	17.80
		50	0	16.53	16.57	16.53	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	16.42	16.37	16.43	17.80
		1	38	16.31	16.29	16.22	17.80
		1	74	16.27	16.27	16.17	17.80
		36	0	16.50	16.48	16.51	17.80
		36	18	16.45	16.45	16.45	17.80
		36	39	16.40	16.43	16.44	17.80
		75	0	16.47	16.45	16.49	17.80
	16QAM	1	0	16.63	16.73	16.72	17.80
		1	38	16.60	16.58	16.67	17.80
		1	74	16.56	16.61	16.60	17.80
		36	0	16.47	16.50	16.48	17.80
		36	18	16.48	16.48	16.47	17.80
		36	39	16.41	16.46	16.43	17.80
		75	0	16.46	16.49	16.46	17.80
	64QAM	1	0	16.67	16.63	16.61	17.80
		1	38	16.65	16.51	16.49	17.80
		1	74	16.55	16.55	16.49	17.80
		36	0	16.52	16.56	16.58	17.80
		36	18	16.53	16.53	16.52	17.80
		36	39	16.45	16.48	16.46	17.80
		75	0	16.50	16.52	16.49	17.80

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	16.39	16.33	16.40	17.80
		1	50	16.30	16.25	16.20	17.80
		1	99	16.25	16.26	16.14	17.80
		50	0	16.47	16.43	16.47	17.80
		50	25	16.43	16.41	16.42	17.80
		50	50	16.37	16.38	16.40	17.80
		100	0	16.44	16.40	16.45	17.80
	16QAM	1	0	16.60	16.69	16.67	17.80
		1	50	16.57	16.56	16.63	17.80
		1	99	16.53	16.58	16.58	17.80
		50	0	16.44	16.46	16.45	17.80
		50	25	16.45	16.46	16.44	17.80
		50	50	16.38	16.41	16.39	17.80
		100	0	16.44	16.45	16.43	17.80
	64QAM	1	0	16.65	16.59	16.56	17.80
		1	50	16.61	16.49	16.45	17.80
		1	99	16.49	16.49	16.43	17.80
		50	0	16.47	16.48	16.51	17.80
		50	25	16.49	16.49	16.46	17.80
		50	50	16.42	16.43	16.42	17.80
		100	0	16.48	16.48	16.46	17.80

LTE Band 5							
Receiver on &Receiver off &Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	23.55	23.52	23.46	25.00
		1	2	23.49	23.42	23.37	25.00
		1	5	23.50	23.44	23.36	25.00
		3	0	23.60	23.52	23.46	25.00
		3	2	23.56	23.50	23.45	25.00
		3	3	23.56	23.53	23.51	25.00
		6	0	22.63	22.52	22.51	24.00
	16QAM	1	0	22.90	22.90	22.88	24.00
		1	2	22.77	22.87	22.74	24.00
		1	5	22.82	22.83	22.78	24.00
		3	0	22.61	22.48	22.46	24.00
		3	2	22.62	22.52	22.50	24.00
		3	3	22.58	22.60	22.56	24.00
		6	0	21.63	21.60	21.56	23.00

	64QAM	1	0	21.80	21.72	21.71	23.00
		1	2	21.69	21.65	21.70	23.00
		1	5	21.65	21.74	21.69	23.00
		3	0	21.62	21.54	21.50	23.00
		3	2	21.64	21.54	21.53	23.00
		3	3	21.61	21.61	21.54	23.00
		6	0	20.68	20.58	20.58	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	23.56	23.55	23.48	25.00
		1	7	23.48	23.46	23.42	25.00
		1	14	23.52	23.48	23.39	25.00
		8	0	22.70	22.64	22.59	24.00
		8	4	22.69	22.61	22.56	24.00
		8	7	22.66	22.66	22.62	24.00
		15	0	22.67	22.57	22.56	24.00
	16QAM	1	0	22.94	22.91	22.90	24.00
		1	7	22.81	22.89	22.78	24.00
		1	14	22.84	22.87	22.80	24.00
		8	0	21.73	21.62	21.59	23.00
		8	4	21.72	21.64	21.61	23.00
		8	7	21.68	21.72	21.69	23.00
		15	0	21.67	21.65	21.58	23.00
	64QAM	1	0	21.82	21.73	21.73	23.00
		1	7	21.72	21.67	21.72	23.00
		1	14	21.67	21.73	21.71	23.00
		8	0	20.74	20.68	20.63	22.00
		8	4	20.74	20.66	20.64	22.00
		8	7	20.71	20.73	20.67	22.00
		15	0	20.72	20.63	20.60	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	23.55	23.51	23.46	25.00
		1	13	23.46	23.45	23.39	25.00
		1	24	23.49	23.43	23.35	25.00
		12	0	22.68	22.60	22.56	24.00
		12	6	22.66	22.56	22.52	24.00
		12	13	22.63	22.63	22.58	24.00
		25	0	22.65	22.53	22.51	24.00
	16QAM	1	0	22.92	22.89	22.88	24.00
		1	13	22.79	22.86	22.76	24.00
		1	24	22.82	22.83	22.77	24.00
		12	0	21.70	21.60	21.56	23.00

		12	6	21.69	21.59	21.57	23.00
		12	13	21.66	21.68	21.66	23.00
		25	0	21.64	21.60	21.54	23.00
	64QAM	1	0	21.77	21.71	21.71	23.00
		1	13	21.70	21.64	21.70	23.00
		1	24	21.68	21.72	21.72	23.00
		12	0	20.73	20.70	20.64	22.00
		12	6	20.72	20.63	20.63	22.00
		12	13	20.69	20.69	20.64	22.00
		25	0	20.69	20.58	20.56	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	23.52	23.47	23.43	25.00
		1	25	23.45	23.41	23.37	25.00
		1	49	23.47	23.42	23.32	25.00
		25	0	22.65	22.55	22.52	24.00
		25	13	22.64	22.52	22.49	24.00
		25	25	22.60	22.58	22.54	24.00
		50	0	22.62	22.48	22.47	24.00
	16QAM	1	0	22.89	22.85	22.83	24.00
		1	25	22.76	22.84	22.72	24.00
		1	49	22.79	22.80	22.75	24.00
		25	0	21.67	21.56	21.53	23.00
		25	13	21.66	21.57	21.54	23.00
		25	25	21.63	21.63	21.62	23.00
		50	0	21.62	21.56	21.51	23.00
	64QAM	1	0	21.75	21.67	21.66	23.00
		1	25	21.66	21.62	21.66	23.00
		1	49	21.62	21.66	21.66	23.00
		25	0	20.68	20.62	20.57	22.00
		25	13	20.68	20.59	20.57	22.00
		25	25	20.66	20.64	20.60	22.00
		50	0	20.67	20.54	20.53	22.00

LTE Band 7							
Receiver on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.97	22.11	21.98	23.50
		1	13	21.97	22.11	21.94	23.50
		1	24	22.11	22.19	22.02	23.50
		12	0	21.01	21.19	21.18	22.50
		12	6	21.12	21.22	21.19	22.50

		12	13	21.17	21.26	21.16	22.50
		25	0	21.11	21.26	21.25	22.50
	16QAM	1	0	21.21	21.34	21.27	22.50
		1	13	21.29	21.43	21.26	22.50
		1	24	21.37	21.50	21.25	22.50
		12	0	20.03	20.17	20.15	21.50
		12	6	20.04	20.14	20.11	21.50
		12	13	20.15	20.11	20.09	21.50
		25	0	20.13	20.12	20.08	21.50
		1	0	20.05	20.21	20.16	21.50
	64QAM	1	13	19.95	20.35	20.21	21.50
		1	24	20.14	20.30	20.19	21.50
		12	0	18.94	19.10	19.11	20.50
		12	6	19.06	19.15	19.13	20.50
		12	13	19.01	19.20	19.11	20.50
		25	0	19.02	19.13	19.11	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.99	22.12	22.01	23.50
		1	25	22.00	22.16	21.98	23.50
		1	49	22.13	22.23	22.05	23.50
		25	0	21.04	21.24	21.22	22.50
		25	13	21.15	21.27	21.23	22.50
		25	25	21.19	21.30	21.21	22.50
		50	0	21.15	21.28	21.29	22.50
	16QAM	1	0	21.25	21.37	21.29	22.50
		1	25	21.33	21.47	21.29	22.50
		1	49	21.40	21.52	21.28	22.50
		25	0	20.06	20.22	20.19	21.50
		25	13	20.06	20.18	20.14	21.50
		25	25	20.18	20.16	20.13	21.50
		50	0	20.16	20.17	20.12	21.50
	64QAM	1	0	20.07	20.20	20.18	21.50
		1	25	19.98	20.35	20.24	21.50
		1	49	20.13	20.32	20.22	21.50
		25	0	18.97	19.15	19.11	20.50
		25	13	19.08	19.19	19.16	20.50
		25	25	19.04	19.25	19.15	20.50
		50	0	19.05	19.18	19.15	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.98	22.08	21.99	23.50
		1	38	21.98	22.15	21.95	23.50

		1	74	22.10	22.18	22.01	23.50
		36	0	21.02	21.20	21.19	22.50
		36	18	21.12	21.22	21.19	22.50
		36	39	21.16	21.27	21.17	22.50
		75	0	21.13	21.24	21.24	22.50
		1	0	21.23	21.35	21.27	22.50
		1	38	21.31	21.44	21.27	22.50
	16QAM	1	74	21.38	21.48	21.25	22.50
		36	0	20.03	20.20	20.16	21.50
		36	18	20.03	20.13	20.10	21.50
		36	39	20.16	20.12	20.10	21.50
		75	0	20.13	20.12	20.08	21.50
		1	0	20.02	20.18	20.16	21.50
		1	38	19.96	20.32	20.22	21.50
	64QAM	1	74	20.14	20.31	20.23	21.50
		36	0	18.96	19.17	19.12	20.50
		36	18	19.06	19.16	19.15	20.50
		36	39	19.02	19.21	19.12	20.50
		75	0	19.02	19.13	19.11	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.95	22.04	21.96	23.50
		1	50	21.97	22.11	21.93	23.50
		1	99	22.08	22.17	21.98	23.50
		50	0	20.99	21.15	21.15	22.50
		50	25	21.10	21.18	21.16	22.50
		50	50	21.13	21.22	21.13	22.50
		100	0	21.10	21.19	21.20	22.50
	16QAM	1	0	21.20	21.31	21.22	22.50
		1	50	21.28	21.42	21.23	22.50
		1	99	21.35	21.45	21.23	22.50
		50	0	20.00	20.16	20.13	21.50
		50	25	20.00	20.11	20.07	21.50
		50	50	20.13	20.07	20.06	21.50
		100	0	20.11	20.08	20.05	21.50
	64QAM	1	0	20.00	20.14	20.11	21.50
		1	50	19.92	20.30	20.18	21.50
		1	99	20.08	20.25	20.17	21.50
		50	0	18.91	19.09	19.05	20.50
		50	25	19.02	19.12	19.09	20.50
		50	50	18.99	19.16	19.08	20.50
		100	0	19.00	19.09	19.08	20.50

LTE Band 7							
Receiver off-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	20.53	20.61	20.57	21.90
		1	13	20.62	20.69	20.59	21.90
		1	24	20.66	20.82	20.66	21.90
		12	0	20.65	20.87	20.81	21.90
		12	6	20.75	20.89	20.86	21.90
		12	13	20.80	20.84	20.82	21.90
		25	0	20.72	20.86	20.85	21.90
	16QAM	1	0	20.81	20.97	20.97	21.90
		1	13	20.86	21.08	20.88	21.90
		1	24	20.99	21.07	20.90	21.90
		12	0	20.43	20.40	20.40	21.90
		12	6	20.41	20.48	20.49	21.90
		12	13	20.37	20.52	20.44	21.90
		25	0	20.35	20.47	20.45	21.90
	64QAM	1	0	20.42	20.53	20.54	21.90
		1	13	20.43	20.62	20.52	21.90
		1	24	20.49	20.69	20.55	21.90
		12	0	19.32	19.40	19.42	20.50
		12	6	19.42	19.52	19.48	20.50
		12	13	19.44	19.52	19.46	20.50
		25	0	19.37	19.52	19.45	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	20.56	20.65	20.60	21.90
		1	25	20.63	20.73	20.61	21.90
		1	49	20.68	20.83	20.69	21.90
		25	0	20.68	20.92	20.85	21.90
		25	13	20.77	20.93	20.89	21.90
		25	25	20.83	20.89	20.86	21.90
		50	0	20.75	20.91	20.89	21.90
	16QAM	1	0	20.84	21.01	21.02	21.90
		1	25	20.89	21.10	20.92	21.90
		1	49	21.02	21.10	20.92	21.90
		25	0	20.39	20.44	20.43	21.90
		25	13	20.44	20.50	20.52	21.90
		25	25	20.40	20.57	20.48	21.90
		50	0	20.37	20.51	20.48	21.90
	64QAM	1	0	20.40	20.57	20.59	21.90
		1	25	20.47	20.64	20.56	21.90

		1	49	20.55	20.75	20.61	21.90
		25	0	19.37	19.48	19.49	20.50
		25	13	19.46	19.56	19.54	20.50
		25	25	19.47	19.57	19.50	20.50
		50	0	19.39	19.56	19.48	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	20.50	20.59	20.53	21.90
		1	38	20.60	20.65	20.56	21.90
		1	74	20.63	20.77	20.62	21.90
		36	0	20.62	20.82	20.77	21.90
		36	18	20.73	20.85	20.81	21.90
		36	39	20.78	20.82	20.78	21.90
		75	0	20.72	20.85	20.83	21.90
	16QAM	1	0	20.81	20.93	20.94	21.90
		1	38	20.86	21.06	20.85	21.90
		1	74	20.96	21.05	20.86	21.90
		36	0	20.33	20.36	20.37	21.90
		36	18	20.38	20.43	20.45	21.90
		36	39	20.34	20.47	20.40	21.90
		75	0	20.33	20.43	20.40	21.90
	64QAM	1	0	20.43	20.53	20.51	21.90
		1	38	20.40	20.64	20.49	21.90
		1	74	20.50	20.67	20.51	21.90
		36	0	19.30	19.36	19.43	20.50
		36	18	19.39	19.47	19.44	20.50
		36	39	19.41	19.47	19.42	20.50
		75	0	19.35	19.48	19.40	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	20.47	20.51	20.50	21.90
		1	50	20.59	20.64	20.54	21.90
		1	99	20.59	20.74	20.57	21.90
		50	0	20.59	20.77	20.73	21.90
		50	25	20.70	20.80	20.77	21.90
		50	50	20.73	20.77	20.74	21.90
		100	0	20.70	20.77	20.77	21.90
	16QAM	1	0	20.79	20.89	20.88	21.90
		1	50	20.84	21.04	20.81	21.90
		1	99	20.93	20.99	20.83	21.90
		50	0	20.49	20.34	20.34	21.90
		50	25	20.33	20.39	20.40	21.90
		50	50	20.31	20.42	20.36	21.90

		100	0	20.50	20.38	20.36	21.90
	64QAM	1	0	20.45	20.45	20.45	21.90
		1	50	20.36	20.58	20.45	21.90
		1	99	20.43	20.61	20.48	21.90
		50	0	19.26	19.34	19.36	20.50
		50	25	19.34	19.43	19.39	20.50
		50	50	19.38	19.42	19.38	20.50
		100	0	19.32	19.43	19.36	20.50

LTE Band 7							
Hotspot on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	20.08	20.33	20.23	21.50
		1	13	20.20	20.34	20.20	21.50
		1	24	20.29	20.39	20.24	21.50
		12	0	20.28	20.45	20.43	21.50
		12	6	20.36	20.52	20.42	21.50
		12	13	20.39	20.50	20.42	21.50
		25	0	20.35	20.52	20.47	21.50
	16QAM	1	0	20.48	20.60	20.58	21.50
		1	13	20.42	20.65	20.48	21.50
		1	24	20.64	20.77	20.49	21.50
		12	0	20.26	20.39	20.38	21.50
		12	6	20.39	20.46	20.45	21.50
		12	13	20.37	20.52	20.44	21.50
		25	0	20.37	20.49	20.44	21.50
	64QAM	1	0	20.21	20.53	20.55	21.50
		1	13	20.33	20.65	20.55	21.50
		1	24	20.43	20.63	20.52	21.50
		12	0	19.29	19.43	19.46	20.50
		12	6	19.44	19.53	19.47	20.50
		12	13	19.41	19.53	19.44	20.50
		25	0	19.41	19.51	19.46	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	20.04	20.25	20.18	21.50
		1	25	20.17	20.29	20.15	21.50
		1	49	20.24	20.33	20.17	21.50
		25	0	20.23	20.36	20.36	21.50
		25	13	20.31	20.43	20.35	21.50
		25	25	20.33	20.42	20.34	21.50
		50	0	20.30	20.43	20.38	21.50

	16QAM	1	0	20.43	20.54	20.51	21.50
		1	25	20.37	20.60	20.42	21.50
		1	49	20.59	20.70	20.44	21.50
		25	0	20.20	20.33	20.32	21.50
		25	13	20.33	20.39	20.38	21.50
		25	25	20.32	20.43	20.37	21.50
		50	0	20.32	20.40	20.37	21.50
	64QAM	1	0	20.14	20.47	20.48	21.50
		1	25	20.27	20.60	20.49	21.50
		1	49	20.38	20.56	20.47	21.50
		25	0	19.23	19.37	19.40	20.50
		25	13	19.38	19.46	19.40	20.50
		25	25	19.36	19.44	19.37	20.50
		50	0	19.36	19.42	19.39	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	20.07	20.29	20.21	21.50
		1	38	20.18	20.33	20.17	21.50
		1	74	20.26	20.34	20.20	21.50
		36	0	20.26	20.41	20.40	21.50
		36	18	20.33	20.47	20.38	21.50
		36	39	20.36	20.47	20.38	21.50
		75	0	20.33	20.48	20.42	21.50
	16QAM	1	0	20.46	20.58	20.56	21.50
		1	38	20.40	20.62	20.46	21.50
		1	74	20.62	20.73	20.46	21.50
		36	0	20.23	20.37	20.35	21.50
		36	18	20.36	20.41	20.41	21.50
		36	39	20.35	20.48	20.41	21.50
		75	0	20.34	20.44	20.40	21.50
	64QAM	1	0	20.16	20.51	20.53	21.50
		1	38	20.31	20.62	20.53	21.50
		1	74	20.44	20.62	20.53	21.50
		36	0	19.28	19.45	19.47	20.50
		36	18	19.42	19.50	19.46	20.50
		36	39	19.39	19.49	19.41	20.50
		75	0	19.38	19.46	19.42	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	20.02	20.18	20.16	21.50
		1	50	20.17	20.29	20.14	21.50
		1	99	20.21	20.31	20.13	21.50
		50	0	20.21	20.32	20.33	21.50

		50	25	20.29	20.39	20.32	21.50
		50	50	20.29	20.38	20.31	21.50
		100	0	20.29	20.36	20.33	21.50
	16QAM	1	0	20.42	20.51	20.46	21.50
		1	50	20.36	20.59	20.39	21.50
		1	99	20.57	20.65	20.42	21.50
		50	0	20.17	20.32	20.30	21.50
		50	25	20.29	20.36	20.34	21.50
		50	50	20.30	20.39	20.34	21.50
		100	0	20.30	20.36	20.34	21.50
	64QAM	1	0	20.09	20.40	20.43	21.50
		1	50	20.24	20.55	20.46	21.50
		1	99	20.32	20.51	20.45	21.50
		50	0	19.20	19.36	19.34	20.50
		50	25	19.34	19.43	19.36	20.50
		50	50	19.34	19.40	19.34	20.50
		100	0	19.34	19.38	19.36	20.50

LTE Band 7							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	19.65	19.75	19.85	20.80
		1	13	19.59	19.81	19.91	20.80
		1	24	19.75	19.97	19.96	20.80
		12	0	19.76	19.91	19.92	20.80
		12	6	19.86	19.95	19.98	20.80
		12	13	19.88	20.00	20.05	20.80
		25	0	19.84	19.91	19.98	20.80
	16QAM	1	0	19.94	20.08	20.09	20.80
		1	13	20.01	20.15	20.16	20.80
		1	24	20.11	20.27	20.24	20.80
		12	0	19.46	19.56	19.65	20.40
		12	6	19.59	19.62	19.72	20.40
		12	13	19.57	19.74	19.77	20.40
		25	0	19.57	19.63	19.69	20.40
	64QAM	1	0	19.53	19.53	19.73	20.40
		1	13	19.53	19.73	19.73	20.40
		1	24	19.69	19.80	19.84	20.40
		12	0	18.46	18.59	18.71	19.40
		12	6	18.62	18.65	18.77	19.40
		12	13	18.59	18.74	18.80	19.40
		25	0	18.58	18.67	18.69	19.40

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.67	19.76	19.88	20.80
		1	25	19.62	19.86	19.95	20.80
		1	49	19.77	20.01	19.99	20.80
		25	0	19.79	19.96	19.96	20.80
		25	13	19.89	20.00	20.02	20.80
		25	25	19.90	20.04	20.10	20.80
		50	0	19.88	19.93	20.02	20.80
	16QAM	1	0	19.98	20.11	20.11	20.80
		1	25	20.05	20.19	20.19	20.80
		1	49	20.14	20.29	20.27	20.80
		25	0	19.49	19.61	19.69	20.40
		25	13	19.61	19.66	19.75	20.40
		25	25	19.60	19.79	19.81	20.40
		50	0	19.60	19.68	19.73	20.40
	64QAM	1	0	19.55	19.52	19.75	20.40
		1	25	19.56	19.73	19.76	20.40
		1	49	19.68	19.82	19.87	20.40
		25	0	18.49	18.64	18.71	19.40
		25	13	18.64	18.69	18.80	19.40
		25	25	18.62	18.79	18.84	19.40
		50	0	18.61	18.72	18.73	19.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.66	19.72	19.86	20.80
		1	38	19.60	19.85	19.92	20.80
		1	74	19.74	19.96	19.95	20.80
		36	0	19.77	19.92	19.93	20.80
		36	18	19.86	19.95	19.98	20.80
		36	39	19.87	20.01	20.06	20.80
		75	0	19.86	19.89	19.97	20.80
	16QAM	1	0	19.96	20.09	20.09	20.80
		1	38	20.03	20.16	20.17	20.80
		1	74	20.12	20.25	20.24	20.80
		36	0	19.46	19.59	19.66	20.40
		36	18	19.58	19.61	19.71	20.40
		36	39	19.58	19.75	19.78	20.40
		75	0	19.57	19.63	19.69	20.40
	64QAM	1	0	19.50	19.50	19.73	20.40
		1	38	19.54	19.70	19.74	20.40
		1	74	19.69	19.81	19.88	20.40
		36	0	18.48	18.66	18.72	19.40

		36	18	18.62	18.66	18.79	19.40
		36	39	18.60	18.75	18.81	19.40
		75	0	18.58	18.67	18.69	19.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	19.63	19.68	19.83	20.80
		1	50	19.59	19.81	19.90	20.80
		1	99	19.72	19.95	19.92	20.80
		50	0	19.74	19.87	19.89	20.80
		50	25	19.84	19.91	19.95	20.80
		50	50	19.84	19.96	20.02	20.80
		100	0	19.83	19.84	19.93	20.80
	16QAM	1	0	19.93	20.05	20.04	20.80
		1	50	20.00	20.14	20.13	20.80
		1	99	20.09	20.22	20.22	20.80
		50	0	19.43	19.55	19.63	20.40
		50	25	19.55	19.59	19.68	20.40
		50	50	19.55	19.70	19.74	20.40
		100	0	19.55	19.59	19.66	20.40
	64QAM	1	0	19.48	19.46	19.68	20.40
		1	50	19.50	19.68	19.70	20.40
		1	99	19.63	19.75	19.82	20.40
		50	0	18.43	18.58	18.65	19.40
		50	25	18.58	18.62	18.73	19.40
		50	50	18.57	18.70	18.77	19.40
		100	0	18.56	18.63	18.66	19.40

LTE Band 7							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	19.47	19.56	19.65	20.50
		1	13	19.48	19.59	19.63	20.50
		1	24	19.63	19.69	19.75	20.50
		12	0	19.61	19.70	19.81	20.50
		12	6	19.72	19.79	19.83	20.50
		12	13	19.73	19.86	19.90	20.50
		25	0	19.68	19.74	19.80	20.50
	16QAM	1	0	19.69	19.84	19.99	20.50
		1	13	19.75	19.90	20.06	20.50
		1	24	19.86	20.05	20.14	20.50
		12	0	19.51	19.61	19.71	20.40
		12	6	19.66	19.70	19.76	20.40

		12	13	19.63	19.80	19.82	20.40
		25	0	19.61	19.69	19.73	20.40
	64QAM	1	0	19.63	19.72	19.72	20.40
		1	13	19.74	19.78	19.83	20.40
		1	24	19.82	19.93	19.96	20.40
		12	0	18.52	18.61	18.69	19.40
		12	6	18.66	18.71	18.76	19.40
		12	13	18.63	18.81	18.82	19.40
		25	0	18.63	18.70	18.74	19.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.44	19.54	19.61	20.50
		1	25	19.46	19.55	19.60	20.50
		1	49	19.60	19.64	19.71	20.50
		25	0	19.58	19.65	19.77	20.50
		25	13	19.70	19.75	19.78	20.50
		25	25	19.71	19.84	19.86	20.50
		50	0	19.68	19.73	19.78	20.50
	16QAM	1	0	19.69	19.80	19.96	20.50
		1	25	19.75	19.88	20.03	20.50
		1	49	19.83	20.03	20.10	20.50
		25	0	19.49	19.57	19.68	20.40
		25	13	19.63	19.65	19.72	20.40
		25	25	19.60	19.75	19.78	20.40
		50	0	19.59	19.65	19.68	20.40
	64QAM	1	0	19.60	19.72	19.69	20.40
		1	25	19.71	19.80	19.80	20.40
		1	49	19.83	19.91	19.92	20.40
		25	0	18.50	18.57	18.70	19.40
		25	13	18.63	18.66	18.72	19.40
		25	25	18.60	18.76	18.78	19.40
		50	0	18.61	18.66	18.69	19.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.46	19.55	19.64	20.50
		1	38	19.49	19.60	19.64	20.50
		1	74	19.62	19.68	19.74	20.50
		36	0	19.61	19.70	19.81	20.50
		36	18	19.73	19.80	19.82	20.50
		36	39	19.73	19.88	19.91	20.50
		75	0	19.72	19.75	19.82	20.50
	16QAM	1	0	19.73	19.83	19.98	20.50
		1	38	19.79	19.92	20.06	20.50

		1	74	19.86	20.05	20.13	20.50
		36	0	19.52	19.62	19.72	20.40
		36	18	19.65	19.69	19.75	20.40
		36	39	19.63	19.80	19.82	20.40
		75	0	19.62	19.70	19.72	20.40
	64QAM	1	0	19.62	19.71	19.71	20.40
		1	38	19.74	19.80	19.83	20.40
		1	74	19.82	19.93	19.95	20.40
		36	0	18.53	18.62	18.70	19.40
		36	18	18.65	18.70	18.75	19.40
		36	39	18.63	18.81	18.82	19.40
		75	0	18.64	18.71	18.73	19.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	19.42	19.47	19.59	20.50
		1	50	19.46	19.55	19.59	20.50
		1	99	19.57	19.62	19.67	20.50
		50	0	19.56	19.61	19.74	20.50
		50	25	19.68	19.71	19.75	20.50
		50	50	19.67	19.80	19.83	20.50
		100	0	19.67	19.66	19.73	20.50
	16QAM	1	0	19.68	19.77	19.91	20.50
		1	50	19.74	19.87	20.00	20.50
		1	99	19.81	19.98	20.08	20.50
		50	0	19.46	19.56	19.66	20.40
		50	25	19.59	19.62	19.68	20.40
		50	50	19.58	19.71	19.75	20.40
		100	0	19.57	19.61	19.65	20.40
	64QAM	1	0	19.55	19.65	19.64	20.40
		1	50	19.68	19.75	19.77	20.40
		1	99	19.77	19.86	19.90	20.40
		50	0	18.47	18.56	18.64	19.40
		50	25	18.59	18.63	18.68	19.40
		50	50	18.58	18.72	18.75	19.40
		100	0	18.59	18.62	18.66	19.40

LTE Band 7							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	14.50	14.65	14.62	15.70
		1	13	14.64	14.68	14.66	15.70
		1	24	14.71	14.80	14.85	15.70

		12	0	14.76	14.85	14.88	15.70
		12	6	14.80	14.88	14.88	15.70
		12	13	14.85	14.97	14.97	15.70
		25	0	14.83	14.90	14.91	15.70
	16QAM	1	0	14.95	15.06	15.13	15.70
		1	13	15.04	15.12	15.18	15.70
		1	24	15.11	15.20	15.20	15.70
		12	0	14.80	14.89	14.97	15.70
		12	6	14.90	14.90	15.00	15.70
		12	13	14.91	15.02	15.08	15.70
		25	0	14.87	14.90	14.99	15.70
	64QAM	1	0	14.69	14.93	15.00	15.70
		1	13	14.85	15.07	15.13	15.70
		1	24	14.97	15.17	15.17	15.70
		12	0	14.79	14.88	14.98	15.70
		12	6	14.91	14.93	15.01	15.70
		12	13	14.88	15.06	15.10	15.70
		25	0	14.84	14.91	14.97	15.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	14.52	14.66	14.65	15.70
		1	25	14.67	14.73	14.70	15.70
		1	49	14.73	14.84	14.88	15.70
		25	0	14.79	14.90	14.92	15.70
		25	13	14.83	14.93	14.92	15.70
		25	25	14.87	15.01	15.02	15.70
		50	0	14.87	14.92	14.95	15.70
	16QAM	1	0	14.99	15.09	15.15	15.70
		1	25	15.08	15.16	15.21	15.70
		1	49	15.14	15.22	15.23	15.70
		25	0	14.83	14.94	15.01	15.70
		25	13	14.92	14.94	15.03	15.70
		25	25	14.94	15.07	15.12	15.70
		50	0	14.90	14.95	15.03	15.70
	64QAM	1	0	14.71	14.92	15.02	15.70
		1	25	14.88	15.07	15.16	15.70
		1	49	14.96	15.19	15.20	15.70
		25	0	14.82	14.93	14.98	15.70
		25	13	14.93	14.97	15.04	15.70
		25	25	14.91	15.11	15.14	15.70
		50	0	14.87	14.96	15.01	15.70

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	14.51	14.62	14.63	15.70
		1	38	14.65	14.72	14.67	15.70
		1	74	14.70	14.79	14.84	15.70
		36	0	14.77	14.86	14.89	15.70
		36	18	14.80	14.88	14.88	15.70
		36	39	14.84	14.98	14.98	15.70
		75	0	14.85	14.88	14.90	15.70
	16QAM	1	0	14.97	15.07	15.13	15.70
		1	38	15.06	15.13	15.19	15.70
		1	74	15.12	15.18	15.20	15.70
		36	0	14.80	14.92	14.98	15.70
		36	18	14.89	14.89	14.99	15.70
		36	39	14.92	15.03	15.09	15.70
		75	0	14.87	14.90	14.99	15.70
	64QAM	1	0	14.66	14.90	15.00	15.70
		1	38	14.86	15.04	15.14	15.70
		1	74	14.97	15.18	15.21	15.70
		36	0	14.81	14.95	14.99	15.70
		36	18	14.91	14.94	15.03	15.70
		36	39	14.89	15.07	15.11	15.70
		75	0	14.84	14.91	14.97	15.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	14.48	14.58	14.60	15.70
		1	50	14.64	14.68	14.65	15.70
		1	99	14.68	14.78	14.81	15.70
		50	0	14.74	14.81	14.85	15.70
		50	25	14.78	14.84	14.85	15.70
		50	50	14.81	14.93	14.94	15.70
		100	0	14.82	14.83	14.86	15.70
	16QAM	1	0	14.94	15.03	15.08	15.70
		1	50	15.03	15.11	15.15	15.70
		1	99	15.09	15.15	15.18	15.70
		50	0	14.77	14.88	14.95	15.70
		50	25	14.86	14.87	14.96	15.70
		50	50	14.89	14.98	15.05	15.70
		100	0	14.85	14.86	14.96	15.70
	64QAM	1	0	14.64	14.86	14.95	15.70
		1	50	14.82	15.02	15.10	15.70
		1	99	14.91	15.12	15.15	15.70
		50	0	14.76	14.87	14.92	15.70

		50	25	14.87	14.90	14.97	15.70
		50	50	14.86	15.02	15.07	15.70
		100	0	14.82	14.87	14.94	15.70

LTE Band 12							
Receiver on &Receiver off &Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	23.43	23.52	23.55	25.00
		1	2	23.51	23.60	23.52	25.00
		1	5	23.58	23.52	23.54	25.00
		3	0	23.54	23.58	23.56	25.00
		3	2	23.56	23.56	23.62	25.00
		3	3	23.63	23.62	23.66	25.00
		6	0	22.67	22.63	22.65	24.00
	16QAM	1	0	22.85	22.88	22.93	24.00
		1	2	22.80	22.93	22.85	24.00
		1	5	22.96	22.94	22.94	24.00
		3	0	22.50	22.56	22.53	24.00
		3	2	22.64	22.60	22.68	24.00
		3	3	22.60	22.66	22.62	24.00
		6	0	21.68	21.68	21.65	23.00
	64QAM	1	0	21.72	21.69	21.66	23.00
		1	2	21.73	21.65	21.78	23.00
		1	5	21.86	21.84	21.75	23.00
		3	0	21.56	21.56	21.59	23.00
		3	2	21.66	21.63	21.69	23.00
		3	3	21.68	21.70	21.65	23.00
		6	0	20.72	20.71	20.64	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	23.45	23.56	23.58	25.00
		1	7	23.49	23.63	23.56	25.00
		1	14	23.61	23.57	23.58	25.00
		8	0	22.64	22.70	22.69	24.00
		8	4	22.68	22.66	22.74	24.00
		8	7	22.73	22.73	22.76	24.00
		15	0	22.67	22.67	22.68	24.00
	16QAM	1	0	22.85	22.90	22.96	24.00
		1	7	22.80	22.93	22.89	24.00
		1	14	22.98	22.98	22.97	24.00
		8	0	21.61	21.69	21.65	23.00

		8	4	21.75	21.73	21.80	23.00
		8	7	21.70	21.78	21.75	23.00
		15	0	21.71	21.72	21.68	23.00
	64QAM	1	0	21.75	21.71	21.69	23.00
		1	7	21.76	21.65	21.80	23.00
		1	14	21.88	21.83	21.78	23.00
		8	0	20.67	20.69	20.71	22.00
		8	4	20.77	20.76	20.81	22.00
		8	7	20.78	20.82	20.78	22.00
		15	0	20.75	20.75	20.67	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	23.43	23.51	23.55	25.00
		1	13	23.48	23.63	23.54	25.00
		1	24	23.57	23.51	23.53	25.00
		12	0	22.62	22.66	22.66	24.00
		12	6	22.66	22.62	22.69	24.00
		12	13	22.70	22.72	22.73	24.00
		25	0	22.69	22.64	22.65	24.00
	16QAM	1	0	22.87	22.87	22.93	24.00
		1	13	22.82	22.92	22.87	24.00
		1	24	22.96	22.94	22.93	24.00
		12	0	21.59	21.68	21.63	23.00
		12	6	21.71	21.67	21.75	23.00
		12	13	21.68	21.74	21.72	23.00
		25	0	21.69	21.68	21.63	23.00
	64QAM	1	0	21.69	21.68	21.66	23.00
		1	13	21.74	21.64	21.78	23.00
		1	24	21.89	21.82	21.78	23.00
		12	0	20.67	20.72	20.73	22.00
		12	6	20.74	20.72	20.79	22.00
		12	13	20.76	20.78	20.75	22.00
		25	0	20.73	20.71	20.62	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	23.40	23.47	23.52	25.00
		1	25	23.47	23.59	23.52	25.00
		1	49	23.55	23.50	23.50	25.00
		25	0	22.59	22.61	22.62	24.00
		25	13	22.64	22.58	22.66	24.00
		25	25	22.67	22.67	22.69	24.00
		50	0	22.66	22.59	22.61	24.00
	16QAM	1	0	22.84	22.83	22.88	24.00

		1	25	22.79	22.90	22.83	24.00
		1	49	22.93	22.91	22.91	24.00
		25	0	21.56	21.64	21.60	23.00
		25	13	21.68	21.65	21.72	23.00
		25	25	21.65	21.69	21.68	23.00
		50	0	21.67	21.64	21.60	23.00
	64QAM	1	0	21.67	21.64	21.61	23.00
		1	25	21.70	21.62	21.74	23.00
		1	49	21.83	21.76	21.72	23.00
		25	0	20.62	20.64	20.66	22.00
		25	13	20.70	20.68	20.73	22.00
		25	25	20.73	20.73	20.71	22.00
		50	0	20.71	20.67	20.59	22.00

LTE Band 13							
Receiver on &Receiver off &Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	23.08	23.06	22.97	24.50
		1	13	22.95	22.95	22.91	24.50
		1	24	23.07	23.04	22.97	24.50
		12	0	22.21	22.19	22.10	23.50
		12	6	22.21	22.19	22.11	23.50
		12	13	22.25	22.21	22.15	23.50
		25	0	22.17	22.16	22.08	23.50
	16QAM	1	0	22.43	22.42	22.35	23.50
		1	13	22.37	22.36	22.33	23.50
		1	24	22.44	22.42	22.35	23.50
		12	0	21.21	21.18	21.13	22.50
		12	6	21.22	21.18	21.10	22.50
		12	13	21.29	21.27	21.18	22.50
		25	0	21.21	21.19	21.11	22.50
	64QAM	1	0	21.31	21.26	21.19	22.50
		1	13	21.21	21.18	21.15	22.50
		1	24	21.42	21.36	21.29	22.50
		12	0	20.24	20.21	20.16	21.50
		12	6	20.29	20.25	20.17	21.50
		12	13	20.32	20.30	20.21	21.50
		25	0	20.23	20.21	20.13	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	22.91	/	24.50

		1	25	/	22.87	/	24.50
		1	49	/	22.89	/	24.50
		25	0	/	22.03	/	23.50
		25	13	/	22.03	/	23.50
		25	25	/	22.08	/	23.50
		50	0	/	22.01	/	23.50
	16QAM	1	0	/	22.27	/	23.50
		1	25	/	22.27	/	23.50
		1	49	/	22.29	/	23.50
		25	0	/	21.08	/	22.50
		25	13	/	21.02	/	22.50
		25	25	/	21.11	/	22.50
		50	0	/	21.03	/	22.50
	64QAM	1	0	/	21.11	/	22.50
		1	25	/	21.09	/	22.50
		1	49	/	21.23	/	22.50
		25	0	/	20.11	/	21.50
		25	13	/	20.09	/	21.50
		25	25	/	20.14	/	21.50
		50	0	/	20.05	/	21.50

LTE Band 17							
Receiver on &Receiver off &Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	23.52	23.59	23.46	24.80
		1	13	23.47	23.53	23.51	24.80
		1	24	23.52	23.56	23.52	24.80
		12	0	22.62	22.62	22.64	23.80
		12	6	22.68	22.61	22.69	23.80
		12	13	22.73	22.63	22.61	23.80
		25	0	22.58	22.66	22.63	23.80
	16QAM	1	0	22.89	22.85	22.97	23.80
		1	13	22.88	22.89	22.87	23.80
		1	24	22.96	22.92	22.86	23.80
		12	0	21.62	21.63	21.70	22.80
		12	6	21.76	21.69	21.78	22.80
		12	13	21.69	21.68	21.65	22.80
		25	0	21.64	21.67	21.64	22.80
	64QAM	1	0	21.81	21.65	21.71	22.80
		1	13	21.74	21.70	21.75	22.80
		1	24	21.93	21.75	21.69	22.80

		12	0	20.67	20.63	20.70	21.80
		12	6	20.80	20.67	20.75	21.80
		12	13	20.72	20.68	20.67	21.80
		25	0	20.66	20.68	20.64	21.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	23.50	23.52	23.44	24.80
		1	25	23.47	23.53	23.50	24.80
		1	49	23.49	23.54	23.48	24.80
		25	0	22.60	22.58	22.61	23.80
		25	13	22.66	22.57	22.66	23.80
		25	25	22.69	22.59	22.58	23.80
		50	0	22.57	22.59	22.58	23.80
	16QAM	1	0	22.88	22.82	22.92	23.80
		1	25	22.87	22.88	22.84	23.80
		1	49	22.94	22.87	22.84	23.80
		25	0	21.59	21.62	21.68	22.80
		25	13	21.72	21.66	21.74	22.80
		25	25	21.67	21.64	21.62	22.80
		50	0	21.62	21.63	21.61	22.80
	64QAM	1	0	21.76	21.58	21.66	22.80
		1	25	21.71	21.65	21.72	22.80
		1	49	21.87	21.70	21.67	22.80
		25	0	20.64	20.62	20.64	21.80
		25	13	20.76	20.64	20.71	21.80
		25	25	20.70	20.64	20.64	21.80
		50	0	20.64	20.64	20.61	21.80

LTE Band 26							
Receiver on &Receiver off &Hotspot on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	23.51	23.42	23.40	25.00
		1	2	23.46	23.40	23.36	25.00
		1	5	23.46	23.37	23.32	25.00
		3	0	23.44	23.40	23.37	25.00
		3	2	23.47	23.40	23.47	25.00
		3	3	23.48	23.45	23.38	25.00
		6	0	22.57	22.44	22.45	24.00
	16QAM	1	0	22.80	22.68	22.77	24.00
		1	2	22.75	22.74	22.73	24.00
		1	5	22.76	22.67	22.66	24.00

		3	0	22.41	22.33	22.33	24.00
		3	2	22.52	22.35	22.47	24.00
		3	3	22.48	22.44	22.35	24.00
		6	0	21.56	21.46	21.44	23.00
	64QAM	1	0	21.76	21.64	21.66	23.00
		1	2	21.75	21.70	21.66	23.00
		1	5	21.63	21.65	21.56	23.00
		3	0	21.42	21.36	21.39	23.00
		3	2	21.53	21.40	21.48	23.00
		3	3	21.54	21.50	21.49	23.00
		6	0	20.58	20.49	20.49	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	23.50	23.44	23.39	25.00
		1	7	23.42	23.39	23.37	25.00
		1	14	23.46	23.37	23.32	25.00
		8	0	22.51	22.47	22.46	24.00
		8	4	22.57	22.46	22.54	24.00
		8	7	22.56	22.54	22.44	24.00
		15	0	22.57	22.47	22.46	24.00
	16QAM	1	0	22.80	22.66	22.77	24.00
		1	7	22.75	22.72	22.74	24.00
		1	14	22.75	22.69	22.65	24.00
		8	0	21.50	21.42	21.42	23.00
		8	4	21.60	21.43	21.55	23.00
		8	7	21.55	21.51	21.44	23.00
		15	0	21.57	21.46	21.42	23.00
	64QAM	1	0	21.76	21.66	21.66	23.00
		1	7	21.75	21.72	21.65	23.00
		1	14	21.66	21.62	21.55	23.00
		8	0	20.51	20.45	20.52	22.00
		8	4	20.61	20.48	20.56	22.00
		8	7	20.61	20.57	20.58	22.00
		15	0	20.59	20.49	20.47	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				26715/816.5	26865/831.5	27015/846.5	
5MHz	QPSK	1	0	23.52	23.45	23.42	25.00
		1	13	23.45	23.44	23.41	25.00
		1	24	23.48	23.41	23.35	25.00
		12	0	22.54	22.52	22.50	24.00
		12	6	22.60	22.51	22.58	24.00
		12	13	22.58	22.58	22.49	24.00
		25	0	22.61	22.49	22.50	24.00

	16QAM	1	0	22.84	22.69	22.79	24.00
		1	13	22.79	22.76	22.77	24.00
		1	24	22.78	22.71	22.68	24.00
		12	0	21.53	21.47	21.46	23.00
		12	6	21.62	21.47	21.58	23.00
		12	13	21.58	21.56	21.48	23.00
		25	0	21.60	21.51	21.46	23.00
	64QAM	1	0	21.78	21.65	21.68	23.00
		1	13	21.78	21.72	21.68	23.00
		1	24	21.65	21.64	21.58	23.00
		12	0	20.54	20.50	20.52	22.00
		12	6	20.63	20.52	20.59	22.00
		12	13	20.64	20.62	20.62	22.00
		25	0	20.62	20.54	20.51	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				26740/819	26865/831.5	26990/844	
10MHz	QPSK	1	0	23.51	23.41	23.40	25.00
		1	25	23.43	23.43	23.38	25.00
		1	49	23.45	23.36	23.31	25.00
		25	0	22.52	22.48	22.47	24.00
		25	13	22.57	22.46	22.54	24.00
		25	25	22.55	22.55	22.45	24.00
		50	0	22.59	22.45	22.45	24.00
	16QAM	1	0	22.82	22.67	22.77	24.00
		1	25	22.77	22.73	22.75	24.00
		1	49	22.76	22.67	22.65	24.00
		25	0	21.50	21.45	21.43	23.00
		25	13	21.59	21.42	21.54	23.00
		25	25	21.56	21.52	21.45	23.00
		50	0	21.57	21.46	21.42	23.00
	64QAM	1	0	21.73	21.63	21.66	23.00
		1	25	21.76	21.69	21.66	23.00
		1	49	21.66	21.63	21.59	23.00
		25	0	20.53	20.52	20.53	22.00
		25	13	20.61	20.49	20.58	22.00
		25	25	20.62	20.58	20.59	22.00
		50	0	20.59	20.49	20.47	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				26765/821.5	26865/831.5	26965/841.5	
15MHz	QPSK	1	0	23.48	23.37	23.37	25.00
		1	38	23.42	23.39	23.36	25.00
		1	74	23.43	23.35	23.28	25.00
		36	0	22.49	22.43	22.43	24.00

		36	18	22.55	22.42	22.51	24.00
		36	39	22.52	22.50	22.41	24.00
		75	0	22.56	22.40	22.41	24.00
	16QAM	1	0	22.79	22.63	22.72	24.00
		1	38	22.74	22.71	22.71	24.00
		1	74	22.73	22.64	22.63	24.00
		36	0	21.47	21.41	21.40	23.00
		36	18	21.56	21.40	21.51	23.00
		36	39	21.53	21.47	21.41	23.00
		75	0	21.55	21.42	21.39	23.00
	64QAM	1	0	21.71	21.59	21.61	23.00
		1	38	21.72	21.67	21.62	23.00
		1	74	21.60	21.57	21.53	23.00
		36	0	20.48	20.44	20.46	22.00
		36	18	20.57	20.45	20.52	22.00
		36	39	20.59	20.53	20.55	22.00
		75	0	20.57	20.45	20.44	22.00

LTE Band 38							
Receiver on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	20.93	20.90	20.84	21.50
		1	13	20.93	20.86	20.83	21.50
		1	24	20.94	20.94	20.85	21.50
		12	0	21.01	20.93	20.90	21.50
		12	6	21.04	21.04	20.92	21.50
		12	13	21.02	21.00	20.93	21.50
		25	0	21.01	21.04	20.91	21.50
	16QAM	1	0	21.03	21.03	20.96	21.50
		1	13	21.05	21.07	20.96	21.50
		1	24	21.07	21.07	20.99	21.50
		12	0	21.00	21.01	20.89	21.50
		12	6	21.06	21.05	21.01	21.50
		12	13	21.00	21.01	20.93	21.50
		25	0	20.99	21.02	20.94	21.50
	64QAM	1	0	20.80	20.81	20.70	21.50
		1	13	20.83	20.82	20.74	21.50
		1	24	20.81	20.85	20.69	21.50
		12	0	20.28	20.25	20.22	21.50
		12	6	20.37	20.33	20.28	21.50
		12	13	20.32	20.27	20.25	21.50
		25	0	20.29	20.35	20.21	21.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	20.95	20.91	20.87	21.50
		1	25	20.96	20.91	20.87	21.50
		1	49	20.96	20.98	20.88	21.50
		25	0	21.04	20.98	20.94	21.50
		25	13	21.07	21.09	20.96	21.50
		25	25	21.04	21.04	20.98	21.50
		50	0	21.05	21.06	20.95	21.50
	16QAM	1	0	21.07	21.06	20.98	21.50
		1	25	21.09	21.11	20.99	21.50
		1	49	21.10	21.09	21.02	21.50
		25	0	21.03	21.06	20.93	21.50
		25	13	21.08	21.09	21.04	21.50
		25	25	21.03	21.06	20.97	21.50
		50	0	21.02	21.07	20.98	21.50
	64QAM	1	0	20.82	20.80	20.72	21.50
		1	25	20.86	20.82	20.77	21.50
		1	49	20.80	20.87	20.72	21.50
		25	0	20.31	20.30	20.22	21.50
		25	13	20.39	20.37	20.31	21.50
		25	25	20.35	20.32	20.29	21.50
		50	0	20.32	20.40	20.25	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	20.94	20.87	20.85	21.50
		1	38	20.94	20.90	20.84	21.50
		1	74	20.93	20.93	20.84	21.50
		36	0	21.02	20.94	20.91	21.50
		36	18	21.04	21.04	20.92	21.50
		36	39	21.01	21.01	20.94	21.50
		75	0	21.03	21.02	20.90	21.50
	16QAM	1	0	21.05	21.04	20.96	21.50
		1	38	21.07	21.08	20.97	21.50
		1	74	21.08	21.05	20.99	21.50
		36	0	21.00	21.04	20.90	21.50
		36	18	21.05	21.04	21.00	21.50
		36	39	21.01	21.02	20.94	21.50
		75	0	20.99	21.02	20.94	21.50
	64QAM	1	0	20.77	20.78	20.70	21.50
		1	38	20.84	20.79	20.75	21.50
		1	74	20.81	20.86	20.73	21.50
		36	0	20.30	20.32	20.23	21.50

		36	18	20.37	20.34	20.30	21.50
		36	39	20.33	20.28	20.26	21.50
		75	0	20.29	20.35	20.21	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	20.91	20.83	20.82	21.50
		1	50	20.93	20.86	20.82	21.50
		1	99	20.91	20.92	20.81	21.50
		50	0	20.99	20.89	20.87	21.50
		50	25	21.06	21.00	20.89	21.50
		50	50	20.98	20.96	20.90	21.50
		100	0	21.00	20.97	20.86	21.50
	16QAM	1	0	21.02	21.00	20.91	21.50
		1	50	21.04	21.06	20.93	21.50
		1	99	21.05	21.02	20.97	21.50
		50	0	20.97	21.00	20.87	21.50
		50	25	21.02	21.02	20.97	21.50
		50	50	20.98	20.97	20.90	21.50
		100	0	20.97	20.98	20.91	21.50
	64QAM	1	0	20.75	20.74	20.65	21.50
		1	50	20.80	20.77	20.71	21.50
		1	99	20.75	20.80	20.67	21.50
		50	0	20.25	20.24	20.16	21.50
		50	25	20.33	20.30	20.24	21.50
		50	50	20.30	20.23	20.22	21.50
		100	0	20.27	20.31	20.18	21.50

LTE Band 38							
Receiver off-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	22.88	22.74	22.61	24.00
		1	13	22.83	22.67	22.60	24.00
		1	24	22.85	22.73	22.67	24.00
		12	0	22.40	22.25	22.08	23.50
		12	6	22.42	22.25	22.15	23.50
		12	13	22.33	22.21	22.17	23.50
		25	0	22.33	22.29	22.18	23.50
	16QAM	1	0	22.47	22.33	22.27	23.50
		1	13	22.48	22.30	22.22	23.50
		1	24	22.47	22.37	22.26	23.50
		12	0	21.40	21.23	21.18	22.50
		12	6	21.47	21.26	21.25	22.50

		12	13	21.29	21.27	21.20	22.50
		25	0	21.33	21.28	21.17	22.50
	64QAM	1	0	21.14	21.05	21.05	22.50
		1	13	21.21	21.05	21.03	22.50
		1	24	21.10	21.07	20.93	22.50
		12	0	20.41	20.22	20.21	21.50
		12	6	20.47	20.30	20.26	21.50
		12	13	20.32	20.31	20.20	21.50
		25	0	20.29	20.29	20.20	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	22.90	22.75	22.64	24.00
		1	25	22.86	22.72	22.64	24.00
		1	49	22.87	22.77	22.70	24.00
		25	0	22.43	22.30	22.12	23.50
		25	13	22.45	22.30	22.19	23.50
		25	25	22.35	22.25	22.22	23.50
		50	0	22.37	22.31	22.22	23.50
	16QAM	1	0	22.51	22.36	22.29	23.50
		1	25	22.52	22.34	22.25	23.50
		1	49	22.50	22.39	22.29	23.50
		25	0	21.43	21.28	21.22	22.50
		25	13	21.49	21.30	21.28	22.50
		25	25	21.32	21.32	21.24	22.50
		50	0	21.36	21.33	21.21	22.50
	64QAM	1	0	21.16	21.04	21.07	22.50
		1	25	21.24	21.05	21.06	22.50
		1	49	21.09	21.09	20.96	22.50
		25	0	20.44	20.27	20.21	21.50
		25	13	20.49	20.34	20.29	21.50
		25	25	20.35	20.36	20.24	21.50
		50	0	20.32	20.34	20.24	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	22.89	22.71	22.62	24.00
		1	38	22.84	22.71	22.61	24.00
		1	74	22.84	22.72	22.66	24.00
		36	0	22.41	22.26	22.09	23.50
		36	18	22.42	22.25	22.15	23.50
		36	39	22.32	22.22	22.18	23.50
		75	0	22.35	22.27	22.17	23.50
	16QAM	1	0	22.49	22.34	22.27	23.50
		1	38	22.50	22.31	22.23	23.50

		1	74	22.48	22.35	22.26	23.50
		36	0	21.40	21.26	21.19	22.50
		36	18	21.46	21.25	21.24	22.50
		36	39	21.30	21.28	21.21	22.50
		75	0	21.33	21.28	21.17	22.50
	64QAM	1	0	21.11	21.02	21.05	22.50
		1	38	21.22	21.02	21.04	22.50
		1	74	21.10	21.08	20.97	22.50
		36	0	20.43	20.29	20.22	21.50
		36	18	20.47	20.31	20.28	21.50
		36	39	20.33	20.32	20.21	21.50
		75	0	20.29	20.29	20.20	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	22.86	22.67	22.59	24.00
		1	50	22.83	22.67	22.59	24.00
		1	99	22.82	22.71	22.63	24.00
		50	0	22.38	22.21	22.05	23.50
		50	25	22.40	22.21	22.12	23.50
		50	50	22.29	22.17	22.14	23.50
		100	0	22.32	22.22	22.13	23.50
	16QAM	1	0	22.46	22.30	22.22	23.50
		1	50	22.47	22.29	22.19	23.50
		1	99	22.45	22.32	22.24	23.50
		50	0	21.37	21.22	21.16	22.50
		50	25	21.43	21.23	21.21	22.50
		50	50	21.27	21.23	21.17	22.50
		100	0	21.31	21.24	21.14	22.50
	64QAM	1	0	21.09	20.98	21.00	22.50
		1	50	21.18	21.00	21.00	22.50
		1	99	21.04	21.02	20.91	22.50
		50	0	20.38	20.21	20.15	21.50
		50	25	20.43	20.27	20.22	21.50
		50	50	20.30	20.27	20.17	21.50
		100	0	20.27	20.25	20.17	21.50

LTE Band 38							
Hotspot on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	18.79	18.77	18.60	19.90
		1	13	18.81	18.65	18.55	19.90
		1	24	18.83	18.79	18.61	19.90

		12	0	18.90	18.78	18.64	19.90
		12	6	18.95	18.79	18.70	19.90
		12	13	18.87	18.77	18.74	19.90
		25	0	18.84	18.82	18.76	19.90
	16QAM	1	0	18.99	18.85	18.79	19.90
		1	13	18.98	18.85	18.76	19.90
		1	24	18.97	18.89	18.79	19.90
		12	0	18.95	18.80	18.72	19.90
		12	6	18.97	18.84	18.79	19.90
		12	13	18.84	18.81	18.75	19.90
		25	0	18.85	18.81	18.65	19.90
	64QAM	1	0	18.69	18.54	18.42	19.90
		1	13	18.62	18.55	18.46	19.90
		1	24	18.60	18.52	18.48	19.90
		12	0	18.92	18.72	18.72	19.90
		12	6	18.93	18.80	18.72	19.90
		12	13	18.83	18.77	18.69	19.90
		25	0	18.79	18.78	18.71	19.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	18.81	18.78	18.63	19.90
		1	25	18.84	18.70	18.59	19.90
		1	49	18.85	18.83	18.64	19.90
		25	0	18.93	18.83	18.68	19.90
		25	13	18.98	18.84	18.74	19.90
		25	25	18.89	18.81	18.79	19.90
		50	0	18.88	18.84	18.80	19.90
	16QAM	1	0	19.03	18.88	18.81	19.90
		1	25	19.02	18.89	18.79	19.90
		1	49	19.00	18.91	18.82	19.90
		25	0	18.98	18.85	18.76	19.90
		25	13	18.99	18.88	18.82	19.90
		25	25	18.87	18.86	18.79	19.90
		50	0	18.88	18.86	18.69	19.90
	64QAM	1	0	18.71	18.53	18.44	19.90
		1	25	18.65	18.55	18.49	19.90
		1	49	18.59	18.54	18.51	19.90
		25	0	18.95	18.77	18.72	19.90
		25	13	18.95	18.84	18.75	19.90
		25	25	18.86	18.82	18.73	19.90
		50	0	18.82	18.83	18.75	19.90

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	18.80	18.74	18.61	19.90
		1	38	18.82	18.69	18.56	19.90
		1	74	18.82	18.78	18.60	19.90
		36	0	18.91	18.79	18.65	19.90
		36	18	18.95	18.79	18.70	19.90
		36	39	18.86	18.78	18.75	19.90
		75	0	18.86	18.80	18.75	19.90
	16QAM	1	0	19.01	18.86	18.79	19.90
		1	38	19.00	18.86	18.77	19.90
		1	74	18.98	18.87	18.79	19.90
		36	0	18.95	18.83	18.73	19.90
		36	18	18.96	18.83	18.78	19.90
		36	39	18.85	18.82	18.76	19.90
		75	0	18.85	18.81	18.65	19.90
	64QAM	1	0	18.66	18.51	18.42	19.90
		1	38	18.63	18.52	18.47	19.90
		1	74	18.60	18.53	18.52	19.90
		36	0	18.94	18.79	18.73	19.90
		36	18	18.93	18.81	18.74	19.90
		36	39	18.84	18.78	18.70	19.90
		75	0	18.79	18.78	18.71	19.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	18.77	18.70	18.58	19.90
		1	50	18.81	18.65	18.54	19.90
		1	99	18.80	18.77	18.57	19.90
		50	0	18.88	18.74	18.61	19.90
		50	25	18.93	18.75	18.67	19.90
		50	50	18.83	18.73	18.71	19.90
		100	0	18.83	18.75	18.71	19.90
	16QAM	1	0	18.98	18.82	18.74	19.90
		1	50	18.97	18.84	18.73	19.90
		1	99	18.95	18.84	18.77	19.90
		50	0	18.92	18.79	18.70	19.90
		50	25	18.93	18.81	18.75	19.90
		50	50	18.82	18.77	18.72	19.90
		100	0	18.83	18.77	18.62	19.90
	64QAM	1	0	18.64	18.47	18.37	19.90
		1	50	18.59	18.50	18.43	19.90
		1	99	18.54	18.47	18.46	19.90
		50	0	18.89	18.71	18.66	19.90

		50	25	18.89	18.77	18.68	19.90
		50	50	18.81	18.73	18.66	19.90
		100	0	18.77	18.74	18.68	19.90

LTE Band 38							
Receiver on& Receiver off-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	22.05	22.08	21.93	23.00
		1	13	22.05	22.17	21.91	23.00
		1	24	22.20	22.20	21.99	23.00
		12	0	21.17	21.14	21.05	22.00
		12	6	21.10	21.13	20.99	22.00
		12	13	21.13	21.13	21.13	22.00
		25	0	21.09	21.14	21.11	22.00
	16QAM	1	0	21.23	21.21	21.17	22.00
		1	13	21.24	21.17	21.05	22.00
		1	24	21.32	21.36	21.08	22.00
		12	0	20.11	20.13	20.22	21.00
		12	6	20.17	20.17	20.10	21.00
		12	13	20.11	20.12	20.15	21.00
		25	0	20.11	20.12	20.13	21.00
	64QAM	1	0	19.94	19.91	20.00	21.00
		1	13	20.05	19.98	19.85	21.00
		1	24	19.99	19.95	20.05	21.00
		12	0	19.17	19.15	19.06	20.00
		12	6	19.13	19.18	18.99	20.00
		12	13	19.13	19.15	18.95	20.00
		25	0	19.09	19.10	19.13	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	22.07	22.09	21.96	23.00
		1	25	22.08	22.22	21.95	23.00
		1	49	22.22	22.24	22.02	23.00
		25	0	21.20	21.19	21.09	22.00
		25	13	21.13	21.18	21.03	22.00
		25	25	21.15	21.17	21.18	22.00
		50	0	21.13	21.16	21.15	22.00
	16QAM	1	0	21.27	21.24	21.19	22.00
		1	25	21.28	21.21	21.08	22.00
		1	49	21.35	21.38	21.11	22.00
		25	0	20.14	20.18	20.26	21.00
		25	13	20.19	20.21	20.13	21.00

		25	25	20.14	20.17	20.19	21.00
		50	0	20.14	20.17	20.17	21.00
	64QAM	1	0	19.96	19.90	20.02	21.00
		1	25	20.08	19.98	19.88	21.00
		1	49	19.98	19.97	20.08	21.00
		25	0	19.20	19.20	19.06	20.00
		25	13	19.15	19.22	19.02	20.00
		25	25	19.16	19.20	18.99	20.00
		50	0	19.12	19.15	19.17	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	22.06	22.05	21.94	23.00
		1	38	22.06	22.21	21.92	23.00
		1	74	22.19	22.19	21.98	23.00
		36	0	21.18	21.15	21.06	22.00
		36	18	21.10	21.13	20.99	22.00
		36	39	21.12	21.14	21.14	22.00
		75	0	21.11	21.12	21.10	22.00
	16QAM	1	0	21.25	21.22	21.17	22.00
		1	38	21.26	21.18	21.06	22.00
		1	74	21.33	21.34	21.08	22.00
		36	0	20.11	20.16	20.23	21.00
		36	18	20.16	20.16	20.09	21.00
		36	39	20.12	20.13	20.16	21.00
		75	0	20.11	20.12	20.13	21.00
	64QAM	1	0	19.91	19.88	20.00	21.00
		1	38	20.06	19.95	19.86	21.00
		1	74	19.99	19.96	20.09	21.00
		36	0	19.19	19.22	19.07	20.00
		36	18	19.13	19.19	19.01	20.00
		36	39	19.14	19.16	18.96	20.00
		75	0	19.09	19.10	19.13	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	22.03	22.01	21.91	23.00
		1	50	22.05	22.17	21.90	23.00
		1	99	22.17	22.18	21.95	23.00
		50	0	21.17	21.10	21.02	22.00
		50	25	21.08	21.09	20.96	22.00
		50	50	21.09	21.09	21.10	22.00
		100	0	21.08	21.07	21.06	22.00
	16QAM	1	0	21.22	21.18	21.12	22.00
		1	50	21.23	21.16	21.02	22.00

		1	99	21.30	21.31	21.06	22.00
		50	0	20.08	20.12	20.20	21.00
		50	25	20.13	20.14	20.06	21.00
		50	50	20.09	20.08	20.12	21.00
		100	0	20.09	20.08	20.10	21.00
	64QAM	1	0	19.89	19.84	19.95	21.00
		1	50	20.02	19.93	19.82	21.00
		1	99	19.93	19.90	20.03	21.00
		50	0	19.14	19.14	19.00	20.00
		50	25	19.09	19.15	18.95	20.00
		50	50	19.11	19.11	18.92	20.00
		100	0	19.07	19.06	19.10	20.00

LTE Band 38							
Hotspot on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	18.85	18.96	18.86	19.80
		1	13	18.91	18.90	18.90	19.80
		1	24	19.02	18.94	18.94	19.80
		12	0	18.97	18.97	18.95	19.80
		12	6	18.95	18.99	18.99	19.80
		12	13	19.01	19.00	18.90	19.80
		25	0	18.94	18.99	19.00	19.80
	16QAM	1	0	19.06	19.10	19.05	19.80
		1	13	19.10	19.06	19.07	19.80
		1	24	19.17	19.20	19.10	19.80
		12	0	19.01	19.01	18.94	19.80
		12	6	19.06	18.99	19.06	19.80
		12	13	19.00	19.06	18.95	19.80
		25	0	18.99	19.02	18.99	19.80
	64QAM	1	0	18.71	18.79	18.69	19.80
		1	13	18.78	18.79	18.73	19.80
		1	24	18.83	18.80	18.69	19.80
		12	0	19.03	18.98	19.02	19.80
		12	6	19.01	18.96	19.03	19.80
		12	13	19.02	18.97	18.93	19.80
		25	0	18.95	18.97	18.96	19.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	18.87	18.97	18.89	19.80
		1	25	18.94	18.95	18.94	19.80
		1	49	19.04	18.98	18.97	19.80

		25	0	19.00	19.02	18.99	19.80
		25	13	18.98	19.04	19.03	19.80
		25	25	19.03	19.04	18.95	19.80
		50	0	18.98	19.01	19.04	19.80
	16QAM	1	0	19.10	19.13	19.07	19.80
		1	25	19.14	19.10	19.10	19.80
		1	49	19.20	19.22	19.13	19.80
		25	0	19.04	19.06	18.98	19.80
		25	13	19.08	19.03	19.09	19.80
		25	25	19.03	19.11	18.99	19.80
		50	0	19.02	19.07	19.03	19.80
	64QAM	1	0	18.73	18.78	18.71	19.80
		1	25	18.81	18.79	18.76	19.80
		1	49	18.82	18.82	18.72	19.80
		25	0	19.06	19.03	19.02	19.80
		25	13	19.03	19.00	19.06	19.80
		25	25	19.05	19.02	18.97	19.80
		50	0	18.98	19.02	19.00	19.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	18.86	18.93	18.87	19.80
		1	38	18.92	18.94	18.91	19.80
		1	74	19.01	18.93	18.93	19.80
		36	0	18.98	18.98	18.96	19.80
		36	18	18.95	18.99	18.99	19.80
		36	39	19.00	19.01	18.91	19.80
		75	0	18.96	18.97	18.99	19.80
	16QAM	1	0	19.08	19.11	19.05	19.80
		1	38	19.12	19.07	19.08	19.80
		1	74	19.18	19.18	19.10	19.80
		36	0	19.01	19.04	18.95	19.80
		36	18	19.05	18.98	19.05	19.80
		36	39	19.01	19.07	18.96	19.80
		75	0	18.99	19.02	18.99	19.80
	64QAM	1	0	18.68	18.76	18.69	19.80
		1	38	18.79	18.76	18.74	19.80
		1	74	18.83	18.81	18.73	19.80
		36	0	19.05	19.05	19.03	19.80
		36	18	19.01	18.97	19.05	19.80
		36	39	19.03	18.98	18.94	19.80
		75	0	18.95	18.97	18.96	19.80

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	18.83	18.89	18.84	19.80
		1	50	18.91	18.90	18.89	19.80
		1	99	18.99	18.92	18.90	19.80
		50	0	18.95	18.93	18.92	19.80
		50	25	18.93	18.95	18.96	19.80
		50	50	18.97	18.96	18.87	19.80
		100	0	18.93	18.92	18.95	19.80
	16QAM	1	0	19.05	19.07	19.00	19.80
		1	50	19.09	19.05	19.04	19.80
		1	99	19.15	19.15	19.08	19.80
		50	0	18.98	19.00	18.92	19.80
		50	25	19.02	18.96	19.02	19.80
		50	50	18.98	19.02	18.92	19.80
		100	0	18.97	18.98	18.96	19.80
	64QAM	1	0	18.66	18.72	18.64	19.80
		1	50	18.75	18.74	18.70	19.80
		1	99	18.77	18.75	18.67	19.80
		50	0	19.00	18.97	18.96	19.80
		50	25	18.97	18.93	18.99	19.80
		50	50	19.00	18.93	18.90	19.80
		100	0	18.93	18.93	18.93	19.80

LTE Band 38							
Receiver on&Receiver off&Hotspot on-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	20.53	20.43	20.06	22.00
		1	13	20.41	20.27	20.03	22.00
		1	24	20.33	20.08	20.14	22.00
		12	0	19.63	19.38	19.08	21.00
		12	6	19.56	19.29	19.08	21.00
		12	13	19.54	19.27	19.06	21.00
		25	0	19.53	19.28	19.11	21.00
	16QAM	1	0	19.86	19.66	19.38	21.00
		1	13	19.77	19.49	19.27	21.00
		1	24	19.69	19.50	19.25	21.00
		12	0	18.67	18.38	18.12	20.00
		12	6	18.62	18.35	18.18	20.00
		12	13	18.53	18.26	18.13	20.00
		25	0	18.50	18.32	18.12	20.00
	64QAM	1	0	18.69	18.50	18.23	20.00

		1	13	18.55	18.40	18.11	20.00
		1	24	18.52	18.15	18.12	20.00
		12	0	17.67	17.37	17.12	19.00
		12	6	17.62	17.32	17.15	19.00
		12	13	17.53	17.24	17.04	19.00
		25	0	17.57	17.29	17.11	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	20.55	20.44	20.09	22.00
		1	25	20.44	20.32	20.07	22.00
		1	49	20.35	20.12	20.17	22.00
		25	0	19.66	19.43	19.12	21.00
		25	13	19.59	19.34	19.12	21.00
		25	25	19.56	19.31	19.11	21.00
		50	0	19.57	19.30	19.15	21.00
	16QAM	1	0	19.90	19.69	19.40	21.00
		1	25	19.81	19.53	19.30	21.00
		1	49	19.72	19.52	19.28	21.00
		25	0	18.70	18.43	18.16	20.00
		25	13	18.64	18.39	18.21	20.00
		25	25	18.56	18.31	18.17	20.00
		50	0	18.53	18.37	18.16	20.00
	64QAM	1	0	18.71	18.49	18.25	20.00
		1	25	18.58	18.40	18.14	20.00
		1	49	18.51	18.17	18.15	20.00
		25	0	17.70	17.42	17.12	19.00
		25	13	17.64	17.36	17.18	19.00
		25	25	17.56	17.29	17.08	19.00
		50	0	17.60	17.34	17.15	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	20.54	20.40	20.07	22.00
		1	38	20.42	20.31	20.04	22.00
		1	74	20.32	20.07	20.13	22.00
		36	0	19.64	19.39	19.09	21.00
		36	18	19.56	19.29	19.08	21.00
		36	39	19.53	19.28	19.07	21.00
		75	0	19.55	19.26	19.10	21.00
	16QAM	1	0	19.88	19.67	19.38	21.00
		1	38	19.79	19.50	19.28	21.00
		1	74	19.70	19.48	19.25	21.00
		36	0	18.67	18.41	18.13	20.00
		36	18	18.61	18.34	18.17	20.00

		36	39	18.54	18.27	18.14	20.00
		75	0	18.50	18.32	18.12	20.00
	64QAM	1	0	18.66	18.47	18.23	20.00
		1	38	18.56	18.37	18.12	20.00
		1	74	18.52	18.16	18.16	20.00
		36	0	17.69	17.44	17.13	19.00
		36	18	17.62	17.33	17.17	19.00
		36	39	17.54	17.25	17.05	19.00
		75	0	17.57	17.29	17.11	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	20.72	20.36	20.04	22.00
		1	50	20.41	20.27	20.02	22.00
		1	99	20.30	20.06	20.10	22.00
		50	0	19.70	19.34	19.05	21.00
		50	25	19.54	19.25	19.05	21.00
		50	50	19.50	19.23	19.03	21.00
		100	0	19.52	19.21	19.06	21.00
	16QAM	1	0	19.85	19.63	19.33	21.00
		1	50	19.76	19.48	19.24	21.00
		1	99	19.67	19.45	19.23	21.00
		50	0	18.64	18.37	18.10	20.00
		50	25	18.58	18.32	18.14	20.00
		50	50	18.51	18.22	18.10	20.00
		100	0	18.48	18.28	18.09	20.00
	64QAM	1	0	18.64	18.43	18.18	20.00
		1	50	18.52	18.35	18.08	20.00
		1	99	18.46	18.10	18.10	20.00
		50	0	17.64	17.36	17.06	19.00
		50	25	17.58	17.29	17.11	19.00
		50	50	17.51	17.20	17.01	19.00
		100	0	17.55	17.25	17.08	19.00

LTE Band 38							
Receiver on&Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	19.92	20.24	20.33	20.90
		1	13	20.12	20.36	20.44	20.90
		1	24	20.32	20.51	20.61	20.90
		12	0	19.16	19.22	19.35	19.90
		12	6	19.29	19.26	19.46	19.90
		12	13	19.37	19.33	19.39	19.90

	16QAM	25	0	19.25	19.29	19.45	19.90
		1	0	19.09	19.21	19.34	19.90
		1	13	19.23	19.35	19.40	19.90
		1	24	19.31	19.50	19.55	19.90
		12	0	18.14	18.36	18.52	18.90
		12	6	18.29	18.45	18.63	18.90
		12	13	18.36	18.48	18.58	18.90
		25	0	18.26	18.42	18.60	18.90
	64QAM	1	0	17.77	18.02	18.17	18.90
		1	13	17.95	18.22	18.26	18.90
		1	24	18.16	18.32	18.27	18.90
		12	0	17.17	17.36	17.54	17.90
		12	6	17.32	17.42	17.65	17.90
		12	13	17.35	17.52	17.57	17.90
		25	0	17.25	17.42	17.57	17.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	19.94	20.25	20.36	20.90
		1	25	20.15	20.41	20.48	20.90
		1	49	20.34	20.55	20.64	20.90
		25	0	19.19	19.27	19.39	19.90
		25	13	19.32	19.31	19.50	19.90
		25	25	19.39	19.37	19.44	19.90
		50	0	19.29	19.31	19.49	19.90
	16QAM	1	0	19.13	19.24	19.36	19.90
		1	25	19.27	19.39	19.43	19.90
		1	49	19.34	19.52	19.58	19.90
		25	0	18.17	18.41	18.56	18.90
		25	13	18.31	18.49	18.66	18.90
		25	25	18.39	18.53	18.62	18.90
		50	0	18.29	18.47	18.64	18.90
	64QAM	1	0	17.79	18.01	18.19	18.90
		1	25	17.98	18.22	18.29	18.90
		1	49	18.15	18.34	18.30	18.90
		25	0	17.20	17.41	17.54	17.90
		25	13	17.34	17.46	17.68	17.90
		25	25	17.38	17.57	17.61	17.90
		50	0	17.28	17.47	17.61	17.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	19.93	20.21	20.34	20.90
		1	38	20.13	20.40	20.45	20.90
		1	74	20.31	20.50	20.60	20.90

		36	0	19.17	19.23	19.36	19.90
		36	18	19.29	19.26	19.46	19.90
		36	39	19.36	19.34	19.40	19.90
		75	0	19.27	19.27	19.44	19.90
	16QAM	1	0	19.11	19.22	19.34	19.90
		1	38	19.25	19.36	19.41	19.90
		1	74	19.32	19.48	19.55	19.90
		36	0	18.14	18.39	18.53	18.90
		36	18	18.28	18.44	18.62	18.90
		36	39	18.37	18.49	18.59	18.90
		75	0	18.26	18.42	18.60	18.90
	64QAM	1	0	17.74	17.99	18.17	18.90
		1	38	17.96	18.19	18.27	18.90
		1	74	18.16	18.33	18.31	18.90
		36	0	17.19	17.43	17.55	17.90
		36	18	17.32	17.43	17.67	17.90
		36	39	17.36	17.53	17.58	17.90
		75	0	17.25	17.42	17.57	17.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	19.90	20.17	20.31	20.90
		1	50	20.12	20.36	20.43	20.90
		1	99	20.29	20.49	20.57	20.90
		50	0	19.14	19.18	19.32	19.90
		50	25	19.27	19.22	19.43	19.90
		50	50	19.33	19.29	19.36	19.90
		100	0	19.24	19.22	19.40	19.90
	16QAM	1	0	19.08	19.18	19.29	19.90
		1	50	19.22	19.34	19.37	19.90
		1	99	19.29	19.45	19.53	19.90
		50	0	18.11	18.35	18.50	18.90
		50	25	18.25	18.42	18.59	18.90
		50	50	18.34	18.44	18.55	18.90
		100	0	18.24	18.38	18.57	18.90
	64QAM	1	0	17.72	17.95	18.12	18.90
		1	50	17.92	18.17	18.23	18.90
		1	99	18.10	18.27	18.25	18.90
		50	0	17.14	17.35	17.48	17.90
		50	25	17.28	17.39	17.61	17.90
		50	50	17.33	17.48	17.54	17.90
		100	0	17.23	17.38	17.54	17.90

LTE Band 38							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	17.86	18.15	18.30	18.70
		1	13	17.93	18.28	18.51	18.70
		1	24	18.22	18.51	18.60	18.70
		12	0	18.02	18.35	18.42	18.70
		12	6	18.16	18.42	18.53	18.70
		12	13	18.28	18.42	18.48	18.70
		25	0	18.09	18.32	18.53	18.70
	16QAM	1	0	17.91	18.28	18.53	18.70
		1	13	18.13	18.41	18.60	18.70
		1	24	18.39	18.60	18.61	18.70
		12	0	18.06	18.33	18.50	18.70
		12	6	18.21	18.44	18.60	18.70
		12	13	18.28	18.49	18.50	18.70
		25	0	18.12	18.41	18.55	18.70
	64QAM	1	0	17.72	17.90	18.06	18.70
		1	13	17.83	18.05	18.21	18.70
		1	24	18.04	18.22	18.30	18.70
		12	0	17.15	17.41	17.54	17.90
		12	6	17.30	17.51	17.70	17.90
		12	13	17.34	17.53	17.60	17.90
		25	0	17.25	17.41	17.69	17.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	17.84	18.10	18.27	18.70
		1	25	17.92	18.28	18.49	18.70
		1	49	18.18	18.45	18.55	18.70
		25	0	18.00	18.31	18.39	18.70
		25	13	18.14	18.38	18.48	18.70
		25	25	18.25	18.41	18.45	18.70
		50	0	18.11	18.29	18.50	18.70
	16QAM	1	0	17.93	18.25	18.50	18.70
		1	25	18.15	18.40	18.58	18.70
		1	49	18.37	18.56	18.57	18.70
		25	0	18.04	18.32	18.48	18.70
		25	13	18.17	18.38	18.55	18.70
		25	25	18.26	18.45	18.47	18.70
		50	0	18.10	18.37	18.50	18.70
	64QAM	1	0	17.66	17.87	18.03	18.70

		1	25	17.81	18.04	18.19	18.70
		1	49	18.05	18.21	18.30	18.70
		25	0	17.15	17.44	17.56	17.90
		25	13	17.27	17.47	17.68	17.90
		25	25	17.32	17.49	17.57	17.90
		50	0	17.23	17.37	17.64	17.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	17.81	18.06	18.24	18.70
		1	38	17.91	18.24	18.47	18.70
		1	74	18.16	18.44	18.52	18.70
		36	0	17.97	18.26	18.35	18.70
		36	18	18.12	18.34	18.45	18.70
		36	39	18.22	18.36	18.41	18.70
		75	0	18.08	18.24	18.46	18.70
	16QAM	1	0	17.90	18.21	18.45	18.70
		1	38	18.12	18.38	18.54	18.70
		1	74	18.34	18.53	18.55	18.70
		36	0	18.01	18.28	18.45	18.70
		36	18	18.14	18.36	18.52	18.70
		36	39	18.23	18.40	18.43	18.70
		75	0	18.08	18.33	18.47	18.70
	64QAM	1	0	17.64	17.83	17.98	18.70
		1	38	17.77	18.02	18.15	18.70
		1	74	17.99	18.15	18.24	18.70
		36	0	17.10	17.36	17.49	17.90
		36	18	17.23	17.43	17.62	17.90
		36	39	17.29	17.44	17.53	17.90
		75	0	17.21	17.33	17.61	17.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	17.77	17.98	18.19	18.70
		1	50	17.88	18.19	18.42	18.70
		1	99	18.11	18.38	18.45	18.70
		50	0	17.92	18.17	18.28	18.70
		50	25	18.07	18.25	18.38	18.70
		50	50	18.16	18.28	18.33	18.70
		100	0	18.03	18.15	18.37	18.70
	16QAM	1	0	17.85	18.15	18.38	18.70
		1	50	18.07	18.33	18.48	18.70
		1	99	18.29	18.46	18.50	18.70
		50	0	17.95	18.22	18.39	18.70
		50	25	18.08	18.29	18.45	18.70

		50	50	18.18	18.31	18.36	18.70
		100	0	18.03	18.24	18.40	18.70
	64QAM	1	0	17.57	17.77	17.91	18.70
		1	50	17.71	17.97	18.09	18.70
		1	99	17.94	18.08	18.19	18.70
		50	0	17.04	17.30	17.43	17.90
		50	25	17.17	17.36	17.55	17.90
		50	50	17.24	17.35	17.46	17.90
		100	0	17.16	17.24	17.54	17.90

LTE Band 41 PC2									
Receiver on-Main Ant5				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	22.93	22.76	22.98	23.04	22.99	23.50
		1	13	22.73	22.61	22.78	22.98	22.89	23.50
		1	24	22.83	22.73	22.81	23.09	22.95	23.50
		12	0	22.94	22.83	23.02	23.10	22.98	23.50
		12	6	22.98	22.83	23.07	23.24	23.07	23.50
		12	13	22.86	22.84	22.97	23.22	23.06	23.50
		25	0	22.98	22.87	23.02	23.26	23.11	23.50
	16QAM	1	0	23.23	23.15	23.31	23.34	23.32	23.50
		1	13	23.05	22.97	23.19	23.30	23.17	23.50
		1	24	23.20	22.99	23.09	23.36	23.25	23.50
		12	0	22.94	22.87	23.04	23.10	23.10	23.50
		12	6	23.01	22.91	23.12	23.26	23.12	23.50
		12	13	22.88	22.86	23.02	23.27	23.13	23.50
		25	0	23.00	22.91	23.08	23.26	23.08	23.50
	64QAM	1	0	23.03	22.95	23.11	23.13	23.17	23.50
		1	13	22.94	22.81	23.00	23.20	23.03	23.50
		1	24	22.93	22.75	23.00	23.26	23.05	23.50
		12	0	22.28	22.23	22.31	22.41	22.43	23.20
		12	6	22.33	22.23	22.40	22.55	22.43	23.20
		12	13	22.21	22.15	22.28	22.57	22.38	23.20
		25	0	22.35	22.19	22.36	22.61	22.41	23.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	23.00	23.05	23.02	22.94	22.79	23.50
		1	25	22.81	23.03	22.93	22.78	22.65	23.50
		1	49	22.83	23.13	22.98	22.87	22.76	23.50
		25	0	23.05	23.15	23.02	22.99	22.87	23.50
		25	13	23.10	23.29	23.11	23.03	22.87	23.50
		25	25	22.99	23.26	23.11	22.90	22.89	23.50

		50	0	23.06	23.28	23.15	23.00	22.91	23.50
		1	0	23.35	23.37	23.34	23.26	23.17	23.50
		1	25	23.23	23.34	23.20	23.09	23.00	23.50
		1	49	23.12	23.38	23.28	23.22	23.02	23.50
		25	0	23.07	23.15	23.14	22.99	22.91	23.50
		25	13	23.14	23.30	23.15	23.05	22.94	23.50
		25	25	23.05	23.32	23.17	22.93	22.90	23.50
		50	0	23.11	23.31	23.12	23.05	22.95	23.50
		1	0	23.13	23.12	23.19	23.02	22.97	23.50
		1	25	23.03	23.20	23.06	22.94	22.84	23.50
		1	49	22.99	23.28	23.08	22.95	22.78	23.50
		25	0	22.34	22.46	22.43	22.33	22.23	23.20
		25	13	22.42	22.59	22.46	22.37	22.26	23.20
		25	25	22.31	22.62	22.42	22.26	22.19	23.20
		50	0	22.39	22.66	22.45	22.40	22.23	23.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	22.90	22.77	22.99	23.01	23.00	23.50
		1	38	22.77	22.62	22.79	23.02	22.90	23.50
		1	74	22.82	22.72	22.80	23.08	22.94	23.50
		36	0	22.95	22.84	23.03	23.11	22.99	23.50
		36	18	22.98	22.83	23.07	23.24	23.07	23.50
		36	39	22.87	22.85	22.96	23.23	23.07	23.50
		75	0	22.96	22.86	23.04	23.24	23.10	23.50
	16QAM	1	0	23.24	23.15	23.33	23.35	23.32	23.50
		1	38	23.06	22.98	23.21	23.31	23.18	23.50
		1	74	23.18	22.99	23.10	23.34	23.25	23.50
		36	0	22.97	22.88	23.04	23.13	23.11	23.50
		36	18	23.00	22.90	23.11	23.25	23.11	23.50
		36	39	22.89	22.87	23.03	23.28	23.14	23.50
		75	0	23.00	22.91	23.08	23.26	23.08	23.50
	64QAM	1	0	23.00	22.95	23.08	23.10	23.17	23.50
		1	38	22.91	22.82	23.01	23.17	23.04	23.50
		1	74	22.94	22.79	23.00	23.27	23.09	23.50
		36	0	22.35	22.24	22.33	22.48	22.44	23.20
		36	18	22.34	22.25	22.40	22.56	22.45	23.20
		36	39	22.22	22.16	22.29	22.58	22.39	23.20
		75	0	22.35	22.19	22.36	22.61	22.41	23.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	22.96	22.97	22.97	22.86	22.74	23.50
		1	50	22.78	22.98	22.88	22.73	22.60	23.50
		1	99	22.78	23.09	22.91	22.81	22.69	23.50

		50	0	23.00	23.06	22.95	22.90	22.80	23.50
		50	25	23.05	23.20	23.04	22.94	22.80	23.50
		50	50	22.93	23.18	23.03	22.82	22.81	23.50
		100	0	23.01	23.19	23.06	22.91	22.82	23.50
	16QAM	1	0	23.30	23.31	23.27	23.20	23.10	23.50
		1	50	23.18	23.29	23.14	23.04	22.94	23.50
		1	99	23.07	23.31	23.23	23.15	22.97	23.50
		50	0	23.01	23.09	23.08	22.93	22.85	23.50
		50	25	23.08	23.23	23.08	22.98	22.87	23.50
		50	50	23.00	23.23	23.10	22.84	22.83	23.50
		100	0	23.06	23.22	23.05	22.96	22.88	23.50
	64QAM	1	0	23.06	23.06	23.12	22.96	22.90	23.50
		1	50	22.97	23.15	23.00	22.89	22.78	23.50
		1	99	22.94	23.21	23.03	22.88	22.73	23.50
		50	0	22.28	22.40	22.37	22.27	22.17	23.20
		50	25	22.36	22.52	22.39	22.30	22.19	23.20
		50	50	22.26	22.53	22.35	22.17	22.12	23.20
		100	0	22.34	22.57	22.38	22.31	22.16	23.20

LTE Band 41 PC2									
Receiver off-Main Ant5				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	24.79	24.80	24.71	24.53	24.59	25.80
		1	13	24.62	24.77	24.58	24.41	24.38	25.80
		1	24	24.67	24.78	24.74	24.49	24.42	25.80
		12	0	24.30	24.36	24.34	24.16	24.10	25.20
		12	6	24.37	24.57	24.35	24.17	24.14	25.20
		12	13	24.30	24.56	24.35	24.16	24.07	25.20
		25	0	24.28	24.55	24.29	24.18	24.16	25.20
	16QAM	1	0	24.52	24.64	24.61	24.40	24.35	25.20
		1	13	24.38	24.60	24.47	24.26	24.19	25.20
		1	24	24.40	24.72	24.53	24.36	24.29	25.20
		12	0	23.32	23.35	23.40	23.26	23.14	24.20
		12	6	23.40	23.53	23.37	23.24	23.19	24.20
		12	13	23.29	23.57	23.34	23.10	23.11	24.20
		25	0	23.37	23.53	23.40	23.21	23.13	24.20
	64QAM	1	0	23.39	23.40	23.36	23.30	23.22	24.20
		1	13	23.32	23.43	23.34	23.18	23.08	24.20
		1	24	23.30	23.46	23.35	23.22	22.99	24.20
		12	0	22.30	22.42	22.40	22.23	22.12	23.20
		12	6	22.38	22.53	22.37	22.28	22.11	23.20
		12	13	22.31	22.56	22.38	22.17	22.14	23.20

		25	0	22.35	22.58	22.37	22.27	22.15	23.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	24.55	24.60	24.76	24.78	24.67	25.80
		1	25	24.44	24.43	24.60	24.73	24.55	25.80
		1	49	24.51	24.46	24.64	24.73	24.70	25.80
		25	0	24.19	24.15	24.27	24.31	24.30	25.20
		25	13	24.20	24.19	24.35	24.53	24.30	25.20
		25	25	24.18	24.11	24.28	24.54	24.31	25.20
		50	0	24.22	24.18	24.28	24.54	24.27	25.20
	16QAM	1	0	24.44	24.38	24.52	24.60	24.58	25.20
		1	25	24.30	24.23	24.38	24.58	24.44	25.20
		1	49	24.39	24.31	24.37	24.70	24.49	25.20
		25	0	23.29	23.19	23.30	23.31	23.37	24.20
		25	13	23.26	23.23	23.37	23.48	23.33	24.20
		25	25	23.13	23.16	23.26	23.52	23.30	24.20
		50	0	23.24	23.18	23.35	23.49	23.35	24.20
	64QAM	1	0	23.32	23.21	23.36	23.40	23.33	24.20
		1	25	23.21	23.08	23.29	23.45	23.31	24.20
		1	49	23.21	23.01	23.31	23.44	23.31	24.20
		25	0	22.26	22.17	22.28	22.38	22.41	23.20
		25	13	22.30	22.15	22.35	22.48	22.33	23.20
		25	25	22.20	22.19	22.28	22.51	22.34	23.20
		50	0	22.30	22.20	22.33	22.54	22.32	23.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	24.54	24.56	24.78	24.79	24.70	25.80
		1	38	24.42	24.42	24.63	24.78	24.59	25.80
		1	74	24.48	24.41	24.66	24.77	24.73	25.80
		36	0	24.17	24.11	24.30	24.36	24.34	25.20
		36	18	24.17	24.14	24.38	24.58	24.34	25.20
		36	39	24.15	24.08	24.30	24.58	24.36	25.20
		75	0	24.20	24.14	24.32	24.56	24.31	25.20
	16QAM	1	0	24.42	24.36	24.56	24.63	24.60	25.20
		1	38	24.28	24.20	24.42	24.62	24.47	25.20
		1	74	24.37	24.27	24.40	24.72	24.52	25.20
		36	0	23.26	23.17	23.33	23.36	23.41	24.20
		36	18	23.23	23.18	23.39	23.52	23.36	24.20
		36	39	23.11	23.12	23.29	23.57	23.34	24.20
		75	0	23.21	23.13	23.38	23.54	23.39	24.20
	64QAM	1	0	23.27	23.19	23.38	23.39	23.35	24.20
		1	38	23.19	23.05	23.32	23.45	23.34	24.20
		1	74	23.22	23.00	23.30	23.46	23.34	24.20

		36	0	22.25	22.19	22.31	22.43	22.41	23.20
		36	18	22.28	22.12	22.37	22.52	22.36	23.20
		36	39	22.18	22.15	22.31	22.56	22.38	23.20
		75	0	22.27	22.15	22.36	22.59	22.36	23.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	24.74	24.71	24.65	24.51	24.52	25.80
		1	50	24.60	24.73	24.54	24.41	24.38	25.80
		1	99	24.61	24.71	24.66	24.46	24.40	25.80
		50	0	24.25	24.27	24.27	24.14	24.06	25.20
		50	25	24.33	24.49	24.27	24.15	24.10	25.20
		50	50	24.24	24.50	24.28	24.12	24.03	25.20
		100	0	24.27	24.47	24.22	24.17	24.09	25.20
	16QAM	1	0	24.51	24.57	24.53	24.39	24.32	25.20
		1	50	24.37	24.57	24.41	24.25	24.18	25.20
		1	99	24.35	24.65	24.47	24.34	24.24	25.20
		50	0	23.27	23.30	23.35	23.23	23.13	24.20
		50	25	23.33	23.45	23.29	23.20	23.16	24.20
		50	50	23.24	23.48	23.27	23.08	23.07	24.20
		100	0	23.33	23.45	23.32	23.19	23.09	24.20
	64QAM	1	0	23.31	23.33	23.28	23.25	23.15	24.20
		1	50	23.26	23.40	23.28	23.15	23.03	24.20
		1	99	23.25	23.39	23.29	23.16	22.94	24.20
		50	0	22.25	22.37	22.35	22.20	22.11	23.20
		50	25	22.31	22.45	22.29	22.24	22.08	23.20
		50	50	22.26	22.47	22.31	22.15	22.10	23.20
		100	0	22.31	22.50	22.29	22.25	22.11	23.20

LTE Band 41 PC2									
Hotspot on-Main Ant5				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	19.88	19.99	19.92	19.87	19.75	21.00
		1	13	19.81	19.93	19.80	19.66	19.58	21.00
		1	24	19.80	19.97	19.93	19.76	19.63	21.00
		12	0	19.95	20.01	20.02	19.91	19.80	21.00
		12	6	20.02	20.15	19.99	19.90	19.82	21.00
		12	13	19.97	20.12	19.97	19.79	19.80	21.00
		25	0	19.97	20.16	19.98	19.89	19.80	21.00
	16QAM	1	0	20.16	20.21	20.25	20.09	20.09	21.00
		1	13	20.06	20.22	20.03	19.99	19.94	21.00
		1	24	20.02	20.34	20.14	20.12	19.97	21.00
		12	0	19.95	20.01	20.01	19.85	19.83	21.00

		12	6	19.99	20.21	20.02	19.87	19.88	21.00
		12	13	19.93	20.19	19.97	19.81	19.85	21.00
		25	0	19.99	20.13	20.00	19.93	19.84	21.00
	64QAM	1	0	20.03	19.96	20.00	19.94	19.82	21.00
		1	13	19.89	20.05	19.95	19.78	19.68	21.00
		1	24	19.86	20.13	20.01	19.76	19.70	21.00
		12	0	19.87	20.05	20.03	19.87	19.83	21.00
		12	6	19.97	20.17	20.00	19.96	19.81	21.00
		12	13	19.88	20.15	20.01	19.77	19.78	21.00
		25	0	19.95	20.17	20.01	19.91	19.82	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	19.90	20.00	19.94	19.88	19.78	21.00
		1	25	19.84	19.98	19.83	19.71	19.62	21.00
		1	49	19.82	20.01	19.95	19.80	19.66	21.00
		25	0	19.98	20.06	20.05	19.96	19.84	21.00
		25	13	20.05	20.20	20.02	19.95	19.86	21.00
		25	25	19.99	20.16	19.99	19.83	19.85	21.00
		50	0	20.01	20.18	20.02	19.91	19.84	21.00
	16QAM	1	0	20.20	20.24	20.29	20.12	20.11	21.00
		1	25	20.10	20.26	20.07	20.03	19.97	21.00
		1	49	20.05	20.36	20.17	20.14	20.00	21.00
		25	0	19.98	20.06	20.04	19.90	19.87	21.00
		25	13	20.01	20.25	20.04	19.91	19.91	21.00
		25	25	19.96	20.24	20.00	19.86	19.89	21.00
		50	0	20.02	20.18	20.03	19.98	19.88	21.00
	64QAM	1	0	20.05	19.95	20.02	19.93	19.84	21.00
		1	25	19.92	20.05	19.98	19.78	19.71	21.00
		1	49	19.85	20.15	20.00	19.78	19.73	21.00
		25	0	19.90	20.10	20.06	19.92	19.83	21.00
		25	13	19.99	20.21	20.02	20.00	19.84	21.00
		25	25	19.91	20.20	20.04	19.82	19.82	21.00
		50	0	19.98	20.22	20.04	19.96	19.86	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	19.93	19.84	19.76	19.89	19.96	21.00
		1	38	19.81	19.70	19.59	19.82	19.97	21.00
		1	74	19.92	19.75	19.62	19.79	19.96	21.00
		36	0	20.03	19.92	19.81	19.96	20.02	21.00
		36	18	19.99	19.90	19.82	20.02	20.15	21.00
		36	39	19.96	19.80	19.81	19.96	20.13	21.00
		75	0	20.00	19.87	19.79	19.99	20.14	21.00
	16QAM	1	0	20.27	20.10	20.09	20.18	20.22	21.00

		1	38	20.05	20.00	19.95	20.08	20.23	21.00
		1	74	20.15	20.10	19.97	20.03	20.32	21.00
		36	0	20.01	19.88	19.84	19.95	20.04	21.00
		36	18	20.01	19.86	19.87	19.98	20.20	21.00
		36	39	19.98	19.82	19.86	19.94	20.20	21.00
		75	0	20.00	19.93	19.84	19.99	20.13	21.00
		1	0	19.97	19.91	19.82	20.00	19.93	21.00
	64QAM	1	38	19.96	19.75	19.69	19.90	20.02	21.00
		1	74	20.01	19.77	19.74	19.86	20.14	21.00
		36	0	20.05	19.94	19.84	19.89	20.12	21.00
		36	18	20.00	19.97	19.83	19.97	20.18	21.00
		36	39	20.02	19.78	19.79	19.89	20.16	21.00
		75	0	20.01	19.91	19.82	19.95	20.17	21.00
		1	0	19.97	19.91	19.82	20.00	19.93	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	19.96	19.92	19.90	19.80	19.73	21.00
		1	50	19.81	19.93	19.80	19.66	19.57	21.00
		1	99	19.77	19.95	19.90	19.74	19.59	21.00
		50	0	19.93	19.97	20.00	19.87	19.77	21.00
		50	25	20.00	20.11	19.97	19.86	19.79	21.00
		50	50	19.93	20.08	19.93	19.75	19.77	21.00
		100	0	19.96	20.09	19.97	19.82	19.75	21.00
		1	0	20.15	20.18	20.24	20.06	20.04	21.00
	16QAM	1	50	20.05	20.21	20.02	19.98	19.91	21.00
		1	99	20.00	20.29	20.12	20.07	19.95	21.00
		50	0	19.92	20.00	19.98	19.84	19.81	21.00
		50	25	19.95	20.18	19.98	19.84	19.84	21.00
		50	50	19.91	20.15	19.95	19.77	19.82	21.00
		100	0	19.97	20.09	19.98	19.89	19.81	21.00
		1	0	19.98	19.89	19.95	19.87	19.77	21.00
		1	50	19.86	20.00	19.92	19.73	19.65	21.00
	64QAM	1	99	19.80	20.08	19.95	19.71	19.68	21.00
		50	0	19.84	20.04	20.00	19.86	19.77	21.00
		50	25	19.93	20.14	19.96	19.93	19.77	21.00
		50	50	19.86	20.11	19.99	19.73	19.75	21.00
		100	0	19.93	20.13	19.99	19.87	19.79	21.00

LTE Band 41 PC2									
Receiver on-Div Ant3				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	24.18	24.18	24.34	24.23	24.14	25.00
		1	13	24.07	24.20	24.32	24.15	23.94	25.00

		1	24	24.10	24.34	24.43	24.20	24.08	25.00
		12	0	23.38	23.40	23.53	23.35	23.30	24.00
		12	6	23.36	23.47	23.53	23.44	23.29	24.00
		12	13	23.29	23.55	23.49	23.31	23.28	24.00
		25	0	23.35	23.56	23.59	23.43	23.30	24.00
	16QAM	1	0	23.60	23.55	23.72	23.57	23.56	24.00
		1	13	23.42	23.60	23.61	23.41	23.37	24.00
		1	24	23.40	23.71	23.74	23.59	23.43	24.00
		12	0	22.40	22.44	22.54	22.38	22.27	23.00
		12	6	22.40	22.55	22.58	22.44	22.32	23.00
		12	13	22.40	22.57	22.53	22.30	22.33	23.00
		25	0	22.37	22.52	22.59	22.47	22.26	23.00
	64QAM	1	0	22.58	22.81	22.58	22.54	22.47	23.00
		1	13	22.61	22.48	22.50	22.50	22.20	23.00
		1	24	22.38	22.60	22.50	22.37	22.28	23.00
		12	0	21.37	21.44	21.56	21.40	21.38	22.00
		12	6	21.41	21.53	21.56	21.46	21.31	22.00
		12	13	21.29	21.56	21.49	21.31	21.27	22.00
		25	0	21.36	21.56	21.57	21.42	21.32	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	24.24	24.17	24.20	24.19	24.37	25.00
		1	25	24.20	23.98	24.10	24.25	24.36	25.00
		1	49	24.24	24.11	24.12	24.38	24.46	25.00
		25	0	23.40	23.34	23.41	23.45	23.57	24.00
		25	13	23.49	23.33	23.39	23.52	23.57	24.00
		25	25	23.35	23.33	23.31	23.59	23.54	24.00
		50	0	23.45	23.34	23.39	23.58	23.63	24.00
	16QAM	1	0	23.60	23.58	23.64	23.58	23.74	24.00
		1	25	23.45	23.40	23.46	23.64	23.64	24.00
		1	49	23.61	23.46	23.43	23.73	23.77	24.00
		25	0	22.43	22.31	22.43	22.49	22.58	23.00
		25	13	22.48	22.35	22.42	22.59	22.61	23.00
		25	25	22.35	22.37	22.43	22.62	22.57	23.00
		50	0	22.52	22.30	22.40	22.57	22.63	23.00
	64QAM	1	0	22.53	22.49	22.60	22.80	22.60	23.00
		1	25	22.50	22.23	22.64	22.48	22.53	23.00
		1	49	22.39	22.31	22.37	22.62	22.53	23.00
		25	0	21.45	21.38	21.40	21.49	21.56	22.00
		25	13	21.50	21.34	21.43	21.57	21.59	22.00
		25	25	21.36	21.31	21.32	21.61	21.53	22.00
		50	0	21.47	21.36	21.39	21.61	21.61	22.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	24.19	24.15	24.35	24.20	24.15	25.00
		1	38	24.08	24.24	24.33	24.19	23.95	25.00
		1	74	24.09	24.33	24.42	24.19	24.07	25.00
		36	0	23.39	23.41	23.54	23.36	23.31	24.00
		36	18	23.36	23.47	23.53	23.44	23.29	24.00
		36	39	23.28	23.56	23.50	23.32	23.29	24.00
		75	0	23.37	23.54	23.58	23.41	23.29	24.00
	16QAM	1	0	23.62	23.56	23.72	23.58	23.56	24.00
		1	38	23.44	23.61	23.62	23.42	23.38	24.00
		1	74	23.41	23.69	23.74	23.57	23.43	24.00
		36	0	22.40	22.47	22.55	22.41	22.28	23.00
		36	18	22.39	22.54	22.57	22.43	22.31	23.00
		36	39	22.41	22.58	22.54	22.31	22.34	23.00
		75	0	22.37	22.52	22.59	22.47	22.26	23.00
	64QAM	1	0	22.55	22.78	22.58	22.51	22.47	23.00
		1	38	22.62	22.45	22.51	22.47	22.21	23.00
		1	74	22.38	22.61	22.54	22.38	22.32	23.00
		36	0	21.39	21.51	21.57	21.47	21.39	22.00
		36	18	21.41	21.54	21.58	21.47	21.33	22.00
		36	39	21.30	21.57	21.50	21.32	21.28	22.00
		75	0	21.36	21.56	21.57	21.42	21.32	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	24.16	24.11	24.32	24.16	24.12	25.00
		1	50	24.07	24.20	24.31	24.15	23.93	25.00
		1	99	24.07	24.32	24.39	24.18	24.04	25.00
		50	0	23.36	23.36	23.50	23.31	23.27	24.00
		50	25	23.34	23.43	23.50	23.40	23.26	24.00
		50	50	23.25	23.53	23.46	23.27	23.25	24.00
		100	0	23.34	23.49	23.54	23.36	23.25	24.00
	16QAM	1	0	23.59	23.52	23.67	23.54	23.51	24.00
		1	50	23.41	23.59	23.58	23.40	23.34	24.00
		1	99	23.38	23.66	23.72	23.54	23.41	24.00
		50	0	22.37	22.43	22.52	22.37	22.25	23.00
		50	25	22.36	22.52	22.54	22.41	22.28	23.00
		50	50	22.38	22.53	22.50	22.26	22.30	23.00
		100	0	22.35	22.48	22.56	22.43	22.23	23.00
	64QAM	1	0	22.53	22.74	22.53	22.47	22.42	23.00
		1	50	22.58	22.43	22.47	22.45	22.17	23.00
		1	99	22.32	22.55	22.48	22.32	22.26	23.00
		50	0	21.34	21.43	21.50	21.39	21.32	22.00

		50	25	21.37	21.50	21.52	21.43	21.27	22.00
		50	50	21.27	21.52	21.46	21.27	21.24	22.00
		100	0	21.34	21.52	21.54	21.38	21.29	22.00

LTE Band 41 PC2									
Receiver off-Div Ant3				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	23.94	23.73	23.97	23.82	23.99	24.70
		1	13	23.63	23.55	23.84	23.87	23.89	24.70
		1	24	23.72	23.65	23.79	23.92	24.08	24.70
		12	0	23.32	23.26	23.34	23.40	23.48	24.00
		12	6	23.38	23.25	23.33	23.49	23.52	24.00
		12	13	23.21	23.23	23.27	23.54	23.44	24.00
		25	0	23.41	23.24	23.35	23.54	23.52	24.00
	16QAM	1	0	23.57	23.52	23.61	23.61	23.73	24.00
		1	13	23.39	23.31	23.50	23.55	23.61	24.00
		1	24	23.53	23.38	23.36	23.69	23.77	24.00
		12	0	22.39	22.27	22.38	22.44	22.53	23.00
		12	6	22.37	22.30	22.38	22.49	22.54	23.00
		12	13	22.30	22.27	22.24	22.53	22.50	23.00
		25	0	22.36	22.26	22.35	22.53	22.55	23.00
	64QAM	1	0	22.53	22.33	22.54	22.48	22.61	23.00
		1	13	22.43	22.23	22.40	22.67	22.57	23.00
		1	24	22.30	22.22	22.38	22.57	22.50	23.00
		12	0	21.38	21.30	21.36	21.44	21.53	22.00
		12	6	21.40	21.33	21.37	21.51	21.60	22.00
		12	13	21.29	21.27	21.29	21.54	21.52	22.00
		25	0	21.40	21.28	21.39	21.54	21.60	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	23.99	23.83	24.02	23.95	23.76	24.70
		1	25	23.87	23.92	23.93	23.68	23.59	24.70
		1	49	23.81	23.96	24.11	23.76	23.68	24.70
		25	0	23.37	23.45	23.52	23.37	23.30	24.00
		25	13	23.36	23.54	23.56	23.43	23.29	24.00
		25	25	23.29	23.58	23.49	23.25	23.28	24.00
		50	0	23.39	23.56	23.56	23.43	23.28	24.00
	16QAM	1	0	23.65	23.64	23.75	23.60	23.54	24.00
		1	25	23.54	23.59	23.64	23.43	23.34	24.00
		1	49	23.39	23.71	23.80	23.55	23.41	24.00
		25	0	22.41	22.49	22.57	22.44	22.31	23.00
		25	13	22.40	22.53	22.57	22.41	22.33	23.00

		25	25	22.27	22.58	22.54	22.35	22.31	23.00
		50	0	22.38	22.58	22.59	22.41	22.30	23.00
	64QAM	1	0	22.56	22.47	22.63	22.52	22.35	23.00
		1	25	22.43	22.67	22.60	22.43	22.26	23.00
		1	49	22.37	22.59	22.53	22.32	22.25	23.00
		25	0	21.39	21.49	21.53	21.43	21.30	22.00
		25	13	21.39	21.55	21.63	21.44	21.36	22.00
		25	25	21.32	21.59	21.56	21.34	21.31	22.00
		50	0	21.42	21.59	21.64	21.45	21.32	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	23.91	23.74	23.98	23.79	24.00	24.70
		1	38	23.67	23.56	23.85	23.91	23.90	24.70
		1	74	23.71	23.64	23.78	23.91	24.07	24.70
		36	0	23.33	23.27	23.35	23.41	23.49	24.00
		36	18	23.38	23.25	23.33	23.49	23.52	24.00
		36	39	23.22	23.24	23.26	23.55	23.45	24.00
		75	0	23.39	23.23	23.37	23.52	23.51	24.00
	16QAM	1	0	23.58	23.52	23.63	23.62	23.73	24.00
		1	38	23.40	23.32	23.52	23.56	23.62	24.00
		1	74	23.51	23.38	23.37	23.67	23.77	24.00
		36	0	22.42	22.28	22.38	22.47	22.54	23.00
		36	18	22.36	22.29	22.37	22.48	22.53	23.00
		36	39	22.31	22.28	22.25	22.54	22.51	23.00
		75	0	22.36	22.26	22.35	22.53	22.55	23.00
	64QAM	1	0	22.50	22.33	22.51	22.45	22.61	23.00
		1	38	22.40	22.24	22.41	22.64	22.58	23.00
		1	74	22.31	22.26	22.38	22.58	22.54	23.00
		36	0	21.45	21.31	21.38	21.51	21.54	22.00
		36	18	21.41	21.35	21.37	21.52	21.62	22.00
		36	39	21.30	21.28	21.30	21.55	21.53	22.00
		75	0	21.40	21.28	21.39	21.54	21.60	22.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	23.95	23.75	23.97	23.87	23.71	24.70
		1	50	23.84	23.87	23.88	23.63	23.54	24.70
		1	99	23.76	23.90	24.04	23.70	23.61	24.70
		50	0	23.32	23.36	23.45	23.28	23.23	24.00
		50	25	23.31	23.45	23.49	23.34	23.22	24.00
		50	50	23.23	23.50	23.41	23.17	23.20	24.00
		100	0	23.34	23.47	23.47	23.34	23.19	24.00
	16QAM	1	0	23.60	23.58	23.68	23.54	23.47	24.00
		1	50	23.49	23.54	23.58	23.38	23.28	24.00

		1	99	23.34	23.64	23.75	23.48	23.36	24.00
		50	0	22.35	22.43	22.51	22.38	22.25	23.00
		50	25	22.34	22.46	22.50	22.34	22.26	23.00
		50	50	22.22	22.49	22.47	22.26	22.24	23.00
		100	0	22.33	22.49	22.52	22.32	22.23	23.00
	64QAM	1	0	22.49	22.41	22.56	22.46	22.28	23.00
		1	50	22.37	22.62	22.54	22.38	22.20	23.00
		1	99	22.32	22.52	22.48	22.25	22.20	23.00
		50	0	21.33	21.43	21.47	21.37	21.24	22.00
		50	25	21.33	21.48	21.56	21.37	21.29	22.00
		50	50	21.27	21.50	21.49	21.25	21.24	22.00
		100	0	21.37	21.50	21.57	21.36	21.25	22.00

LTE Band 41 PC2									
Hotspot on-Div Ant3				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	19.46	19.53	19.54	19.46	19.50	19.90
		1	13	19.39	19.52	19.38	19.39	19.31	19.90
		1	24	19.40	19.62	19.54	19.40	19.39	19.90
		12	0	19.46	19.57	19.62	19.46	19.53	19.90
		12	6	19.59	19.73	19.59	19.59	19.57	19.90
		12	13	19.54	19.73	19.56	19.54	19.39	19.90
		25	0	19.57	19.76	19.61	19.57	19.53	19.90
	16QAM	1	0	19.79	19.79	19.88	19.79	19.77	19.90
		1	13	19.61	19.81	19.71	19.61	19.58	19.90
		1	24	19.60	19.70	19.82	19.60	19.61	19.90
		12	0	19.56	19.61	19.62	19.56	19.49	19.90
		12	6	19.64	19.75	19.66	19.64	19.56	19.90
		12	13	19.53	19.77	19.65	19.53	19.46	19.90
		25	0	19.58	19.76	19.59	19.58	19.55	19.90
	64QAM	1	0	19.47	19.54	19.65	19.47	19.49	19.90
		1	13	19.49	19.64	19.50	19.49	19.42	19.90
		1	24	19.50	19.69	19.57	19.50	19.39	19.90
		12	0	19.47	19.58	19.63	19.47	19.49	19.90
		12	6	19.57	19.77	19.68	19.57	19.54	19.90
		12	13	19.54	19.78	19.62	19.54	19.41	19.90
		25	0	19.60	19.80	19.61	19.60	19.54	19.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	19.51	19.38	19.48	19.54	19.57	19.90
		1	25	19.36	19.24	19.42	19.57	19.42	19.90
		1	49	19.43	19.35	19.42	19.66	19.57	19.90

		25	0	19.58	19.42	19.49	19.62	19.66	19.90
		25	13	19.62	19.49	19.62	19.78	19.63	19.90
		25	25	19.43	19.43	19.56	19.77	19.61	19.90
		50	0	19.55	19.49	19.61	19.78	19.65	19.90
	16QAM	1	0	19.80	19.67	19.83	19.82	19.90	19.90
		1	25	19.62	19.54	19.65	19.85	19.74	19.90
		1	49	19.63	19.58	19.63	19.80	19.85	19.90
		25	0	19.54	19.50	19.59	19.66	19.66	19.90
		25	13	19.60	19.48	19.66	19.79	19.69	19.90
		25	25	19.51	19.44	19.56	19.82	19.69	19.90
		50	0	19.60	19.50	19.61	19.81	19.63	19.90
		50	0	19.60	19.50	19.61	19.81	19.63	19.90
	64QAM	1	0	19.48	19.50	19.49	19.53	19.67	19.90
		1	25	19.42	19.33	19.52	19.64	19.53	19.90
		1	49	19.41	19.33	19.49	19.71	19.60	19.90
		25	0	19.54	19.41	19.50	19.63	19.63	19.90
		25	13	19.58	19.49	19.59	19.81	19.71	19.90
		25	25	19.46	19.46	19.57	19.83	19.66	19.90
		50	0	19.59	19.49	19.63	19.85	19.65	19.90
		50	0	19.59	19.49	19.63	19.85	19.65	19.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	19.47	19.50	19.55	19.47	19.36	19.90
		1	38	19.40	19.56	19.39	19.35	19.21	19.90
		1	74	19.39	19.61	19.53	19.38	19.31	19.90
		36	0	19.47	19.58	19.63	19.54	19.39	19.90
		36	18	19.59	19.73	19.59	19.57	19.45	19.90
		36	39	19.53	19.74	19.57	19.40	19.39	19.90
		75	0	19.59	19.74	19.60	19.51	19.44	19.90
		75	0	19.59	19.74	19.60	19.51	19.44	19.90
	16QAM	1	0	19.81	19.80	19.88	19.78	19.65	19.90
		1	38	19.63	19.82	19.72	19.59	19.52	19.90
		1	74	19.61	19.88	19.82	19.59	19.55	19.90
		36	0	19.56	19.64	19.63	19.52	19.47	19.90
		36	18	19.63	19.74	19.65	19.55	19.44	19.90
		36	39	19.54	19.78	19.66	19.47	19.41	19.90
		75	0	19.58	19.76	19.59	19.55	19.46	19.90
		75	0	19.58	19.76	19.59	19.55	19.46	19.90
	64QAM	1	0	19.44	19.51	19.65	19.46	19.48	19.90
		1	38	19.50	19.61	19.51	19.39	19.31	19.90
		1	74	19.50	19.70	19.61	19.40	19.34	19.90
		36	0	19.49	19.65	19.64	19.56	19.42	19.90
		36	18	19.57	19.78	19.70	19.55	19.48	19.90
		36	39	19.55	19.79	19.63	19.42	19.43	19.90
		75	0	19.60	19.80	19.61	19.54	19.45	19.90
		75	0	19.60	19.80	19.61	19.54	19.45	19.90

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	19.44	19.46	19.52	19.43	19.33	19.90
		1	50	19.39	19.52	19.37	19.31	19.19	19.90
		1	99	19.37	19.60	19.50	19.37	19.28	19.90
		50	0	19.44	19.53	19.59	19.49	19.35	19.90
		50	25	19.57	19.69	19.56	19.53	19.42	19.90
		50	50	19.50	19.69	19.53	19.35	19.35	19.90
		100	0	19.56	19.69	19.56	19.46	19.40	19.90
	16QAM	1	0	19.78	19.76	19.83	19.74	19.60	19.90
		1	50	19.60	19.80	19.68	19.57	19.48	19.90
		1	99	19.58	19.85	19.80	19.56	19.53	19.90
		50	0	19.53	19.60	19.60	19.48	19.44	19.90
		50	25	19.60	19.72	19.62	19.53	19.41	19.90
		50	50	19.51	19.73	19.62	19.42	19.37	19.90
		100	0	19.56	19.72	19.56	19.51	19.43	19.90
	64QAM	1	0	19.42	19.47	19.60	19.42	19.43	19.90
		1	50	19.46	19.59	19.47	19.37	19.27	19.90
		1	99	19.44	19.64	19.55	19.34	19.28	19.90
		50	0	19.44	19.57	19.57	19.48	19.35	19.90
		50	25	19.53	19.74	19.64	19.51	19.42	19.90
		50	50	19.52	19.74	19.59	19.37	19.39	19.90
		100	0	19.58	19.76	19.58	19.50	19.42	19.90

LTE Band 41 PC2									
Receiver on&Receiver off&Hotspot on-Div Ant1				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	22.03	22.41	23.02	23.10	22.72	24.00
		1	13	22.08	22.32	22.95	23.07	22.46	24.00
		1	24	22.04	22.72	23.01	23.03	22.52	24.00
		12	0	21.09	21.56	22.24	22.24	21.72	23.00
		12	6	21.15	21.65	22.19	22.30	21.65	23.00
		12	13	21.09	21.70	22.11	22.22	21.57	23.00
		25	0	21.18	21.64	22.17	22.26	21.65	23.00
	16QAM	1	0	21.37	21.73	22.40	22.42	22.05	23.00
		1	13	21.21	21.69	22.37	22.35	21.76	23.00
		1	24	21.34	22.01	22.27	22.42	21.81	23.00
		12	0	20.25	20.64	21.26	21.23	20.71	22.00
		12	6	20.20	20.79	21.26	21.31	20.69	22.00
		12	13	20.10	20.79	21.18	21.31	20.61	22.00
		25	0	20.17	20.67	21.23	21.27	20.70	22.00

	64QAM	1	0	20.27	20.58	21.43	21.43	20.89	22.00
		1	13	20.16	20.72	21.35	21.33	20.61	22.00
		1	24	20.13	20.83	21.31	21.34	20.57	22.00
		12	0	19.17	19.61	20.23	20.26	19.78	21.00
		12	6	19.18	19.76	20.28	20.31	19.76	21.00
		12	13	19.09	19.80	20.19	20.23	19.60	21.00
		25	0	19.18	19.77	20.19	20.29	19.71	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	23.04	23.11	22.75	22.05	22.42	24.00
		1	25	22.98	23.12	22.50	22.11	22.37	24.00
		1	49	23.03	23.07	22.55	22.06	22.76	24.00
		25	0	22.27	22.29	21.76	21.12	21.61	23.00
		25	13	22.22	22.35	21.69	21.18	21.70	23.00
		25	25	22.13	22.26	21.62	21.11	21.74	23.00
		50	0	22.21	22.28	21.69	21.22	21.66	23.00
	16QAM	1	0	22.44	22.45	22.07	21.41	21.76	23.00
		1	25	22.41	22.39	21.79	21.25	21.73	23.00
		1	49	22.30	22.44	21.84	21.37	22.03	23.00
		25	0	21.29	21.28	20.75	20.28	20.69	22.00
		25	13	21.28	21.35	20.72	20.22	20.83	22.00
		25	25	21.21	21.36	20.65	20.13	20.84	22.00
		50	0	21.26	21.32	20.74	20.20	20.72	22.00
	64QAM	1	0	21.45	21.42	20.91	20.29	20.57	22.00
		1	25	21.38	21.33	20.64	20.19	20.72	22.00
		1	49	21.30	21.36	20.60	20.12	20.85	22.00
		25	0	20.26	20.31	19.78	19.20	19.66	21.00
		25	13	20.30	20.35	19.79	19.20	19.80	21.00
		25	25	20.22	20.28	19.64	19.12	19.85	21.00
		50	0	20.22	20.34	19.75	19.21	19.82	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	22.04	22.38	23.03	23.07	22.73	24.00
		1	38	22.09	22.36	22.96	23.11	22.47	24.00
		1	74	22.03	22.71	23.00	23.02	22.51	24.00
		36	0	21.10	21.57	22.25	22.25	21.73	23.00
		36	18	21.15	21.65	22.19	22.30	21.65	23.00
		36	39	21.08	21.71	22.10	22.23	21.58	23.00
		75	0	21.20	21.62	22.19	22.24	21.64	23.00
	16QAM	1	0	21.39	21.74	22.42	22.43	22.05	23.00
		1	38	21.23	21.70	22.39	22.36	21.77	23.00
		1	74	21.35	21.99	22.28	22.40	21.81	23.00
		36	0	20.25	20.67	21.26	21.26	20.72	22.00

		36	18	20.19	20.78	21.25	21.30	20.68	22.00
		36	39	20.11	20.80	21.19	21.32	20.62	22.00
		75	0	20.17	20.67	21.23	21.27	20.70	22.00
	64QAM	1	0	20.24	20.55	21.40	21.40	20.89	22.00
		1	38	20.17	20.69	21.36	21.30	20.62	22.00
		1	74	20.13	20.84	21.31	21.35	20.61	22.00
		36	0	19.19	19.68	20.25	20.33	19.79	21.00
		36	18	19.18	19.77	20.28	20.32	19.78	21.00
		36	39	19.10	19.81	20.20	20.24	19.61	21.00
		75	0	19.18	19.77	20.19	20.29	19.71	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	23.00	23.03	22.70	22.01	22.34	24.00
		1	50	22.95	23.07	22.45	22.08	22.32	24.00
		1	99	22.98	23.01	22.48	22.01	22.70	24.00
		50	0	22.22	22.20	21.69	21.07	21.52	23.00
		50	25	22.17	22.26	21.62	21.13	21.61	23.00
		50	50	22.07	22.18	21.54	21.05	21.66	23.00
		100	0	22.16	22.19	21.60	21.17	21.57	23.00
	16QAM	1	0	22.39	22.39	22.00	21.36	21.70	23.00
		1	50	22.36	22.34	21.73	21.20	21.68	23.00
		1	99	22.25	22.37	21.79	21.32	21.96	23.00
		50	0	21.23	21.22	20.69	20.22	20.63	22.00
		50	25	21.22	21.28	20.65	20.16	20.76	22.00
		50	50	21.16	21.27	20.58	20.08	20.75	22.00
		100	0	21.21	21.23	20.67	20.15	20.63	22.00
	64QAM	1	0	21.38	21.36	20.84	20.22	20.51	22.00
		1	50	21.32	21.28	20.58	20.13	20.67	22.00
		1	99	21.25	21.29	20.55	20.07	20.78	22.00
		50	0	20.20	20.25	19.72	19.14	19.60	21.00
		50	25	20.24	20.28	19.72	19.14	19.73	21.00
		50	50	20.17	20.19	19.57	19.07	19.76	21.00
		100	0	20.17	20.25	19.68	19.16	19.73	21.00

LTE Band 41 PC2									
Receiver on&Receiver off-Div Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	21.12	21.28	22.13	22.55	22.66	22.90
		1	13	21.05	21.50	22.15	22.54	22.38	22.90
		1	24	21.08	21.73	22.46	22.59	22.27	22.90
		12	0	20.41	20.58	21.32	21.68	21.60	21.90
		12	6	20.29	20.70	21.38	21.70	21.67	21.90

		12	13	20.27	20.69	21.40	21.68	21.49	21.90
		25	0	20.35	20.76	21.42	21.70	21.56	21.90
	16QAM	1	0	20.71	20.65	21.46	21.58	21.65	21.90
		1	13	20.43	20.80	21.51	21.63	21.70	21.90
		1	24	20.48	21.08	21.71	21.47	21.57	21.90
		12	0	19.52	19.59	20.34	20.68	20.64	20.90
		12	6	19.36	19.74	20.45	20.76	20.62	20.90
		12	13	19.26	19.72	20.41	20.69	20.53	20.90
		25	0	19.40	19.78	20.42	20.64	20.58	20.90
		1	0	19.69	19.59	20.31	20.77	20.81	20.90
	64QAM	1	13	19.43	19.72	20.37	20.65	20.60	20.90
		1	24	19.27	19.87	20.47	20.71	20.35	20.90
		12	0	18.50	18.63	19.35	19.70	19.64	19.90
		12	6	18.40	18.79	19.52	19.55	19.66	19.90
		12	13	18.33	18.77	19.45	19.67	19.59	19.90
		25	0	18.39	18.79	19.42	19.73	19.66	19.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	21.14	21.29	22.16	22.56	22.69	22.90
		1	25	21.08	21.55	22.19	22.59	22.42	22.90
		1	49	21.10	21.77	22.49	22.63	22.30	22.90
		25	0	20.44	20.63	21.36	21.73	21.64	21.90
		25	13	20.32	20.75	21.42	21.75	21.71	21.90
		25	25	20.29	20.73	21.45	21.72	21.54	21.90
		50	0	20.39	20.78	21.46	21.72	21.60	21.90
	16QAM	1	0	20.75	20.68	21.48	21.61	21.67	21.90
		1	25	20.47	20.84	21.54	21.67	21.73	21.90
		1	49	20.51	21.10	21.74	21.49	21.60	21.90
		25	0	19.55	19.64	20.38	20.73	20.68	20.90
		25	13	19.38	19.78	20.48	20.80	20.65	20.90
		25	25	19.29	19.77	20.45	20.74	20.57	20.90
		50	0	19.43	19.83	20.46	20.69	20.62	20.90
	64QAM	1	0	19.71	19.58	20.33	20.76	20.83	20.90
		1	25	19.46	19.72	20.40	20.65	20.63	20.90
		1	49	19.26	19.89	20.50	20.73	20.38	20.90
		25	0	18.53	18.68	19.35	19.75	19.64	19.90
		25	13	18.42	18.83	19.55	19.59	19.69	19.90
		25	25	18.36	18.82	19.49	19.72	19.63	19.90
		50	0	18.42	18.84	19.46	19.78	19.70	19.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	21.13	21.25	22.14	22.52	22.67	22.90
		1	38	21.06	21.54	22.16	22.58	22.39	22.90

		1	74	21.07	21.72	22.45	22.58	22.26	22.90
		36	0	20.42	20.59	21.33	21.69	21.61	21.90
		36	18	20.29	20.70	21.38	21.70	21.67	21.90
		36	39	20.26	20.70	21.41	21.69	21.50	21.90
		75	0	20.37	20.74	21.41	21.68	21.55	21.90
	16QAM	1	0	20.73	20.66	21.46	21.59	21.65	21.90
		1	38	20.45	20.81	21.52	21.64	21.71	21.90
		1	74	20.49	21.06	21.71	21.45	21.57	21.90
		36	0	19.52	19.62	20.35	20.71	20.65	20.90
		36	18	19.35	19.73	20.44	20.75	20.61	20.90
		36	39	19.27	19.73	20.42	20.70	20.54	20.90
		75	0	19.40	19.78	20.42	20.64	20.58	20.90
	64QAM	1	0	19.66	19.56	20.31	20.74	20.81	20.90
		1	38	19.44	19.69	20.38	20.62	20.61	20.90
		1	74	19.27	19.88	20.51	20.72	20.39	20.90
		36	0	18.52	18.70	19.36	19.77	19.65	19.90
		36	18	18.40	18.80	19.54	19.56	19.68	19.90
		36	39	18.34	18.78	19.46	19.68	19.60	19.90
		75	0	18.39	18.79	19.42	19.73	19.66	19.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	21.10	21.21	22.11	22.48	22.64	22.90
		1	50	21.05	21.50	22.14	22.54	22.37	22.90
		1	99	21.05	21.71	22.42	22.57	22.23	22.90
		50	0	20.39	20.54	21.29	21.64	21.57	21.90
		50	25	20.27	20.66	21.35	21.66	21.64	21.90
		50	50	20.23	20.65	21.37	21.64	21.46	21.90
		100	0	20.34	20.69	21.37	21.63	21.51	21.90
	16QAM	1	0	20.70	20.62	21.41	21.55	21.60	21.90
		1	50	20.42	20.79	21.48	21.62	21.67	21.90
		1	99	20.46	21.03	21.69	21.42	21.55	21.90
		50	0	19.49	19.58	20.32	20.67	20.62	20.90
		50	25	19.32	19.71	20.41	20.73	20.58	20.90
		50	50	19.24	19.68	20.38	20.65	20.50	20.90
		100	0	19.38	19.74	20.39	20.60	20.55	20.90
	64QAM	1	0	19.64	19.52	20.26	20.70	20.76	20.90
		1	50	19.40	19.67	20.34	20.60	20.57	20.90
		1	99	19.21	19.82	20.45	20.66	20.33	20.90
		50	0	18.47	18.62	19.29	19.69	19.58	19.90
		50	25	18.36	18.76	19.48	19.52	19.62	19.90
		50	50	18.31	18.73	19.42	19.63	19.56	19.90
		100	0	18.37	18.75	19.39	19.69	19.63	19.90

LTE Band 41 PC2									
Hotspot on-Div Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	17.93	17.97	18.81	19.10	19.14	19.30
		1	13	17.68	18.07	18.78	18.97	19.10	19.30
		1	24	17.69	18.34	19.15	19.10	18.86	19.30
		12	0	17.92	18.16	18.94	19.10	19.12	19.30
		12	6	17.79	18.26	19.09	19.16	19.07	19.30
		12	13	17.76	18.34	19.16	19.05	19.00	19.30
		25	0	17.80	18.21	19.04	19.14	19.07	19.30
	16QAM	1	0	17.86	18.17	19.13	19.23	19.15	19.30
		1	13	17.98	18.33	19.12	19.18	19.16	19.30
		1	24	17.90	18.56	19.16	19.15	19.10	19.30
		12	0	17.94	18.09	18.90	19.10	19.11	19.30
		12	6	17.98	18.24	19.06	19.18	19.06	19.30
		12	13	17.88	18.44	19.13	19.10	19.01	19.30
		25	0	17.95	18.26	19.07	19.15	19.05	19.30
	64QAM	1	0	17.99	18.00	18.94	19.13	19.09	19.30
		1	13	17.87	18.13	18.94	19.07	19.13	19.30
		1	24	17.76	18.34	19.17	19.10	18.82	19.30
		12	0	17.92	18.06	18.94	19.08	19.14	19.30
		12	6	18.00	18.22	19.16	19.15	19.14	19.30
		12	13	17.87	18.37	19.17	19.06	19.17	19.30
		25	0	17.92	18.34	19.04	19.17	19.13	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	17.92	17.93	18.79	19.11	19.17	19.30
		1	25	17.66	18.06	18.75	19.02	19.14	19.30
		1	49	17.66	18.29	19.11	19.14	18.89	19.30
		25	0	17.90	18.12	18.91	19.15	19.16	19.30
		25	13	17.76	18.21	19.05	19.21	19.11	19.30
		25	25	17.73	18.31	19.12	19.09	19.05	19.30
		50	0	17.78	18.17	18.99	19.16	19.11	19.30
	16QAM	1	0	17.84	18.15	19.11	19.26	19.17	19.30
		1	25	17.96	18.30	19.10	19.22	19.19	19.30
		1	49	17.88	18.52	19.13	19.17	19.13	19.30
		25	0	17.91	18.07	18.87	19.15	19.15	19.30
		25	13	17.95	18.19	19.02	19.22	19.09	19.30
		25	25	17.86	18.40	19.10	19.15	19.05	19.30
		50	0	17.92	18.21	19.03	19.20	19.09	19.30
	64QAM	1	0	17.94	17.98	18.92	19.12	19.11	19.30
		1	25	17.85	18.10	18.92	19.07	19.16	19.30

		1	49	17.77	18.33	19.18	19.12	18.85	19.30
		25	0	17.91	18.08	18.95	19.13	19.14	19.30
		25	13	17.98	18.19	19.15	19.19	19.17	19.30
		25	25	17.85	18.33	19.14	19.11	19.21	19.30
		50	0	17.89	18.29	19.00	19.22	19.17	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	17.89	17.89	18.76	19.07	19.15	19.30
		1	38	17.65	18.02	18.73	19.01	19.11	19.30
		1	74	17.64	18.28	19.08	19.09	18.85	19.30
		36	0	17.87	18.07	18.87	19.11	19.13	19.30
		36	18	17.74	18.17	19.02	19.16	19.07	19.30
		36	39	17.70	18.26	19.08	19.06	19.01	19.30
		75	0	17.75	18.12	18.95	19.12	19.06	19.30
	16QAM	1	0	17.81	18.11	19.06	19.24	19.15	19.30
		1	38	17.93	18.28	19.06	19.19	19.17	19.30
		1	74	17.85	18.49	19.11	19.13	19.10	19.30
		36	0	17.88	18.03	18.84	19.13	19.12	19.30
		36	18	17.92	18.17	18.99	19.17	19.05	19.30
		36	39	17.83	18.35	19.06	19.11	19.02	19.30
		75	0	17.90	18.17	19.00	19.15	19.05	19.30
	64QAM	1	0	17.92	17.94	18.87	19.10	19.09	19.30
		1	38	17.81	18.08	18.88	19.04	19.14	19.30
		1	74	17.71	18.27	19.12	19.11	18.86	19.30
		36	0	17.86	18.00	18.88	19.15	19.15	19.30
		36	18	17.94	18.15	19.09	19.16	19.16	19.30
		36	39	17.82	18.28	19.10	19.07	19.18	19.30
		75	0	17.87	18.25	18.97	19.17	19.13	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	17.84	17.80	18.70	19.03	19.12	19.30
		1	50	17.63	17.98	18.69	18.97	19.09	19.30
		1	99	17.58	18.21	19.00	19.08	18.82	19.30
		50	0	17.82	17.98	18.80	19.06	19.09	19.30
		50	25	17.70	18.09	18.94	19.12	19.04	19.30
		50	50	17.64	18.20	19.01	19.01	18.97	19.30
		100	0	17.74	18.04	18.88	19.07	19.02	19.30
	16QAM	1	0	17.80	18.04	18.98	19.20	19.10	19.30
		1	50	17.92	18.25	19.00	19.17	19.13	19.30
		1	99	17.80	18.42	19.05	19.10	19.08	19.30
		50	0	17.83	17.98	18.79	19.09	19.09	19.30
		50	25	17.85	18.09	18.91	19.15	19.02	19.30
		50	50	17.78	18.26	18.99	19.06	18.98	19.30

		100	0	17.86	18.09	18.92	19.11	19.02	19.30
	64QAM	1	0	17.84	17.87	18.79	19.06	19.04	19.30
		1	50	17.75	18.05	18.82	19.02	19.10	19.30
		1	99	17.66	18.20	19.06	19.05	18.80	19.30
		50	0	17.81	17.95	18.83	19.07	19.08	19.30
		50	25	17.87	18.07	19.01	19.12	19.10	19.30
		50	50	17.77	18.19	19.03	19.02	19.14	19.30
		100	0	17.83	18.17	18.89	19.13	19.10	19.30

LTE Band 41 PC3									
Receiver on-Main Ant5				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	20.57	20.80	20.61	20.63	20.57	21.90
		1	13	20.36	20.62	20.48	20.44	20.40	21.90
		1	24	20.43	20.78	20.60	20.50	20.44	21.90
		12	0	20.60	20.85	20.75	20.73	20.68	21.90
		12	6	20.62	20.96	20.76	20.71	20.62	21.90
		12	13	20.71	20.92	20.75	20.65	20.59	21.90
		25	0	20.58	21.00	20.78	20.70	20.69	21.90
	16QAM	1	0	20.62	20.76	20.82	20.69	20.72	21.90
		1	13	20.54	20.72	20.68	20.56	20.53	21.90
		1	24	20.63	20.89	20.78	20.73	20.61	21.90
		12	0	20.60	20.66	20.71	20.73	20.62	21.90
		12	6	20.73	20.81	20.79	20.71	20.63	21.90
		12	13	20.63	20.94	20.80	20.62	20.66	21.90
		25	0	20.65	20.93	20.76	20.73	20.66	21.90
	64QAM	1	0	20.64	20.58	20.71	20.50	20.62	21.90
		1	13	20.47	20.56	20.47	20.52	20.45	21.90
		1	24	20.48	20.73	20.55	20.50	20.57	21.90
		12	0	20.09	20.23	20.28	20.15	19.97	21.00
		12	6	20.19	20.40	20.34	20.19	20.01	21.00
		12	13	20.12	20.47	20.26	20.04	20.01	21.00
		25	0	20.13	20.44	20.27	20.15	19.98	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	20.59	20.81	20.64	20.65	20.58	21.90
		1	25	20.39	20.67	20.52	20.47	20.45	21.90
		1	49	20.45	20.82	20.63	20.52	20.48	21.90
		25	0	20.63	20.90	20.79	20.76	20.73	21.90
		25	13	20.65	21.01	20.80	20.74	20.67	21.90
		25	25	20.73	20.96	20.80	20.67	20.63	21.90
		50	0	20.62	21.02	20.82	20.74	20.71	21.90

	16QAM	1	0	20.66	20.79	20.84	20.73	20.75	21.90
		1	25	20.58	20.76	20.71	20.60	20.57	21.90
		1	49	20.66	20.91	20.81	20.76	20.63	21.90
		25	0	20.63	20.71	20.75	20.76	20.67	21.90
		25	13	20.75	20.85	20.82	20.73	20.67	21.90
		25	25	20.66	20.99	20.84	20.65	20.71	21.90
		50	0	20.68	20.98	20.80	20.76	20.71	21.90
	64QAM	1	0	20.66	20.57	20.73	20.52	20.61	21.90
		1	25	20.50	20.56	20.50	20.55	20.45	21.90
		1	49	20.47	20.75	20.58	20.49	20.59	21.90
		25	0	20.12	20.28	20.28	20.18	20.02	21.00
		25	13	20.21	20.44	20.37	20.21	20.05	21.00
		25	25	20.15	20.52	20.30	20.07	20.06	21.00
		50	0	20.16	20.49	20.31	20.18	20.03	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	20.64	20.54	20.58	20.77	20.62	21.90
		1	38	20.45	20.44	20.37	20.66	20.49	21.90
		1	74	20.49	20.43	20.42	20.77	20.59	21.90
		36	0	20.74	20.69	20.61	20.86	20.76	21.90
		36	18	20.71	20.62	20.62	20.96	20.76	21.90
		36	39	20.64	20.60	20.70	20.93	20.76	21.90
		75	0	20.72	20.67	20.60	20.98	20.77	21.90
	16QAM	1	0	20.71	20.73	20.64	20.77	20.82	21.90
		1	38	20.58	20.54	20.56	20.73	20.69	21.90
		1	74	20.74	20.59	20.64	20.87	20.78	21.90
		36	0	20.73	20.65	20.60	20.69	20.72	21.90
		36	18	20.70	20.62	20.72	20.80	20.78	21.90
		36	39	20.63	20.67	20.64	20.95	20.81	21.90
		75	0	20.73	20.66	20.65	20.93	20.76	21.90
	64QAM	1	0	20.47	20.59	20.61	20.55	20.71	21.90
		1	38	20.53	20.42	20.48	20.53	20.48	21.90
		1	74	20.50	20.58	20.48	20.74	20.59	21.90
		36	0	20.17	20.04	20.11	20.30	20.29	21.00
		36	18	20.19	20.02	20.19	20.41	20.36	21.00
		36	39	20.05	20.02	20.13	20.48	20.27	21.00
		75	0	20.15	19.98	20.13	20.44	20.27	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	20.55	20.73	20.59	20.61	20.50	21.90
		1	50	20.36	20.62	20.47	20.44	20.40	21.90
		1	99	20.40	20.76	20.56	20.47	20.42	21.90
		50	0	20.58	20.81	20.72	20.71	20.64	21.90

		50	25	20.60	20.92	20.73	20.69	20.58	21.90
		50	50	20.67	20.88	20.72	20.61	20.55	21.90
		100	0	20.57	20.93	20.73	20.69	20.62	21.90
	16QAM	1	0	20.61	20.73	20.77	20.68	20.69	21.90
		1	50	20.53	20.71	20.65	20.55	20.52	21.90
		1	99	20.61	20.84	20.76	20.71	20.56	21.90
		50	0	20.57	20.65	20.69	20.70	20.61	21.90
		50	25	20.69	20.78	20.75	20.67	20.60	21.90
		50	50	20.61	20.90	20.77	20.60	20.62	21.90
		100	0	20.63	20.89	20.73	20.71	20.62	21.90
	64QAM	1	0	20.59	20.51	20.66	20.45	20.55	21.90
		1	50	20.44	20.51	20.44	20.49	20.40	21.90
		1	99	20.42	20.68	20.53	20.44	20.52	21.90
		50	0	20.06	20.22	20.22	20.12	19.96	21.00
		50	25	20.15	20.37	20.30	20.15	19.98	21.00
		50	50	20.10	20.43	20.23	20.02	19.97	21.00
		100	0	20.11	20.40	20.24	20.13	19.94	21.00

LTE Band 41 PC3									
Receiver off-Main Ant5				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	22.81	22.83	22.79	22.73	22.67	24.00
		1	13	22.64	22.80	22.63	22.54	22.50	24.00
		1	24	22.64	22.90	22.71	22.69	22.62	24.00
		12	0	21.74	21.93	21.84	21.78	21.73	23.00
		12	6	21.80	22.05	21.88	21.81	21.73	23.00
		12	13	21.81	22.04	21.89	21.70	21.71	23.00
		25	0	21.85	22.08	21.92	21.82	21.72	23.00
	16QAM	1	0	21.87	21.97	21.98	21.89	21.81	23.00
		1	13	21.74	21.94	21.85	21.71	21.68	23.00
		1	24	21.76	22.04	21.94	21.86	21.74	23.00
		12	0	20.83	20.89	20.88	20.83	20.77	22.00
		12	6	20.87	21.05	20.91	20.85	20.78	22.00
		12	13	20.86	21.06	20.95	20.71	20.75	22.00
		25	0	20.89	21.04	20.92	20.79	20.77	22.00
	64QAM	1	0	20.55	20.66	20.77	20.65	20.48	22.00
		1	13	20.51	20.75	20.55	20.55	20.53	22.00
		1	24	20.54	20.75	20.61	20.48	20.47	22.00
		12	0	19.82	19.89	19.96	19.81	19.78	21.00
		12	6	19.90	20.03	19.97	19.85	19.77	21.00
		12	13	19.79	20.06	19.93	19.72	19.70	21.00
		25	0	19.84	20.06	19.90	19.85	19.76	21.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	22.74	22.70	22.83	22.84	22.82	24.00
		1	25	22.59	22.54	22.67	22.85	22.67	24.00
		1	49	22.73	22.65	22.66	22.94	22.74	24.00
		25	0	21.83	21.77	21.77	21.98	21.88	23.00
		25	13	21.86	21.77	21.83	22.10	21.92	23.00
		25	25	21.74	21.76	21.83	22.08	21.94	23.00
		50	0	21.84	21.76	21.89	22.10	21.96	23.00
	16QAM	1	0	21.92	21.83	21.91	22.00	22.00	23.00
		1	25	21.75	21.71	21.78	21.98	21.88	23.00
		1	49	21.88	21.77	21.79	22.06	21.97	23.00
		25	0	20.88	20.81	20.86	20.94	20.92	22.00
		25	13	20.89	20.81	20.89	21.09	20.94	22.00
		25	25	20.76	20.79	20.89	21.11	20.99	22.00
		50	0	20.84	20.81	20.92	21.09	20.96	22.00
	64QAM	1	0	20.64	20.50	20.57	20.65	20.79	22.00
		1	25	20.55	20.56	20.54	20.75	20.58	22.00
		1	49	20.50	20.50	20.53	20.77	20.64	22.00
		25	0	19.86	19.78	19.85	19.94	19.96	21.00
		25	13	19.89	19.80	19.92	20.07	20.00	21.00
		25	25	19.77	19.74	19.82	20.11	19.97	21.00
		50	0	19.90	19.80	19.87	20.11	19.94	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	22.70	22.68	22.82	22.80	22.80	24.00
		1	38	22.58	22.51	22.65	22.84	22.64	24.00
		1	74	22.68	22.61	22.63	22.89	22.70	24.00
		36	0	21.79	21.74	21.75	21.94	21.85	23.00
		36	18	21.81	21.73	21.80	22.05	21.88	23.00
		36	39	21.71	21.72	21.80	22.05	21.90	23.00
		75	0	21.80	21.71	21.87	22.06	21.91	23.00
	16QAM	1	0	21.90	21.81	21.89	21.98	21.98	23.00
		1	38	21.72	21.69	21.76	21.95	21.86	23.00
		1	74	21.84	21.74	21.77	22.02	21.94	23.00
		36	0	20.86	20.78	20.83	20.92	20.89	22.00
		36	18	20.84	20.77	20.86	21.04	20.90	22.00
		36	39	20.72	20.76	20.87	21.07	20.96	22.00
		75	0	20.79	20.77	20.89	21.04	20.92	22.00
	64QAM	1	0	20.62	20.48	20.52	20.63	20.77	22.00
		1	38	20.52	20.54	20.52	20.72	20.56	22.00
		1	74	20.49	20.51	20.54	20.76	20.65	22.00
		36	0	19.88	19.79	19.84	19.96	19.97	21.00

		36	18	19.86	19.79	19.90	20.04	19.99	21.00
		36	39	19.73	19.71	19.80	20.07	19.94	21.00
		75	0	19.85	19.76	19.84	20.06	19.90	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	22.79	22.76	22.77	22.66	22.65	24.00
		1	50	22.64	22.80	22.62	22.54	22.49	24.00
		1	99	22.61	22.88	22.67	22.67	22.58	24.00
		50	0	21.72	21.89	21.81	21.74	21.70	23.00
		50	25	21.78	22.01	21.85	21.77	21.70	23.00
		50	50	21.77	22.00	21.86	21.66	21.68	23.00
		100	0	21.84	22.01	21.87	21.75	21.67	23.00
	16QAM	1	0	21.86	21.94	21.93	21.86	21.76	23.00
		1	50	21.73	21.93	21.82	21.70	21.65	23.00
		1	99	21.74	21.99	21.92	21.81	21.72	23.00
		50	0	20.80	20.88	20.86	20.82	20.75	22.00
		50	25	20.83	21.02	20.87	20.82	20.74	22.00
		50	50	20.84	21.02	20.92	20.67	20.72	22.00
		100	0	20.87	21.00	20.89	20.75	20.74	22.00
	64QAM	1	0	20.50	20.59	20.72	20.58	20.43	22.00
		1	50	20.48	20.70	20.52	20.50	20.50	22.00
		1	99	20.48	20.70	20.59	20.43	20.45	22.00
		50	0	19.79	19.88	19.90	19.80	19.72	21.00
		50	25	19.86	20.00	19.93	19.82	19.73	21.00
		50	50	19.77	20.02	19.90	19.68	19.67	21.00
		100	0	19.82	20.02	19.87	19.81	19.73	21.00

LTE Band 41 PC3									
Hotspot on-Main Ant5				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	18.09	17.89	18.01	18.12	18.10	19.40
		1	13	17.86	17.92	17.82	18.05	17.98	19.40
		1	24	17.94	17.98	17.86	18.08	18.11	19.40
		12	0	18.08	17.98	18.03	18.17	18.16	19.40
		12	6	18.09	17.99	18.08	18.28	18.11	19.40
		12	13	17.96	17.93	18.05	18.28	18.14	19.40
		25	0	18.09	17.99	18.05	18.33	18.18	19.40
	16QAM	1	0	18.14	18.13	18.09	18.22	18.22	19.40
		1	13	18.00	17.93	18.04	18.22	18.08	19.40
		1	24	18.10	18.01	18.01	18.32	18.17	19.40
		12	0	18.06	18.00	18.08	18.18	18.13	19.40
		12	6	18.06	18.00	18.13	18.30	18.20	19.40

		12	13	17.99	17.98	18.09	18.27	18.10	19.40
		25	0	18.12	17.99	18.16	18.31	18.16	19.40
	64QAM	1	0	18.09	18.02	17.98	18.07	18.14	19.40
		1	13	17.96	17.98	17.99	18.21	18.02	19.40
		1	24	17.89	17.83	17.97	18.26	18.14	19.40
		12	0	18.02	17.96	17.98	18.09	18.13	19.40
		12	6	18.09	17.98	18.12	18.27	18.12	19.40
		12	13	17.90	17.91	18.03	18.26	18.11	19.40
		25	0	18.06	17.93	18.06	18.27	18.13	19.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	18.10	17.92	18.03	18.13	18.13	19.40
		1	25	17.91	17.96	17.85	18.10	18.02	19.40
		1	49	17.98	18.01	17.88	18.12	18.14	19.40
		25	0	18.13	18.02	18.06	18.22	18.20	19.40
		25	13	18.14	18.03	18.11	18.33	18.15	19.40
		25	25	18.00	17.98	18.07	18.32	18.19	19.40
		50	0	18.11	18.03	18.09	18.35	18.22	19.40
	16QAM	1	0	18.17	18.15	18.13	18.25	18.24	19.40
		1	25	18.04	17.96	18.08	18.26	18.11	19.40
		1	49	18.12	18.04	18.04	18.34	18.20	19.40
		25	0	18.11	18.04	18.11	18.23	18.17	19.40
		25	13	18.10	18.03	18.15	18.34	18.23	19.40
		25	25	18.04	18.02	18.12	18.32	18.14	19.40
		50	0	18.17	18.03	18.19	18.36	18.20	19.40
	64QAM	1	0	18.08	18.04	18.00	18.06	18.16	19.40
		1	25	17.96	18.01	18.02	18.21	18.05	19.40
		1	49	17.91	17.86	17.96	18.28	18.17	19.40
		25	0	18.07	17.96	18.01	18.14	18.13	19.40
		25	13	18.13	18.01	18.14	18.31	18.15	19.40
		25	25	17.95	17.95	18.06	18.31	18.15	19.40
		50	0	18.11	17.97	18.09	18.32	18.17	19.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	18.02	18.09	18.11	18.06	17.90	19.40
		1	38	17.83	18.09	17.99	17.90	17.93	19.40
		1	74	17.85	18.07	18.10	17.93	17.97	19.40
		36	0	18.04	18.18	18.17	18.09	17.99	19.40
		36	18	18.08	18.28	18.11	18.09	17.99	19.40
		36	39	18.04	18.29	18.15	17.97	17.94	19.40
		75	0	18.07	18.31	18.17	18.07	17.98	19.40
	16QAM	1	0	18.11	18.23	18.22	18.15	18.13	19.40
		1	38	18.06	18.23	18.09	18.01	17.94	19.40

		1	74	18.02	18.30	18.17	18.08	18.01	19.40
		36	0	18.08	18.21	18.14	18.09	18.01	19.40
		36	18	18.12	18.29	18.19	18.05	17.99	19.40
		36	39	18.10	18.28	18.11	18.00	17.99	19.40
		75	0	18.16	18.31	18.16	18.12	17.99	19.40
	64QAM	1	0	17.95	18.04	18.14	18.06	18.02	19.40
		1	38	18.00	18.18	18.03	17.93	17.99	19.40
		1	74	17.97	18.27	18.18	17.90	17.87	19.40
		36	0	18.00	18.16	18.14	18.09	17.97	19.40
		36	18	18.12	18.28	18.14	18.10	18.00	19.40
		36	39	18.04	18.27	18.12	17.91	17.92	19.40
		75	0	18.06	18.27	18.13	18.06	17.93	19.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	17.99	18.05	18.08	18.02	17.87	19.40
		1	50	17.82	18.05	17.97	17.86	17.91	19.40
		1	99	17.83	18.09	18.07	17.92	17.94	19.40
		50	0	18.01	18.13	18.13	18.04	17.95	19.40
		50	25	18.06	18.24	18.08	18.05	17.96	19.40
		50	50	18.01	18.24	18.11	17.92	17.90	19.40
		100	0	18.04	18.26	18.13	18.02	17.94	19.40
	16QAM	1	0	18.08	18.19	18.17	18.11	18.08	19.40
		1	50	18.03	18.21	18.05	17.99	17.90	19.40
		1	99	17.99	18.27	18.15	18.05	17.99	19.40
		50	0	18.05	18.17	18.11	18.05	17.98	19.40
		50	25	18.09	18.27	18.16	18.03	17.96	19.40
		50	50	18.07	18.23	18.07	17.95	17.95	19.40
		100	0	18.14	18.27	18.13	18.08	17.96	19.40
	64QAM	1	0	17.93	18.00	18.09	18.02	17.97	19.40
		1	50	17.96	18.16	17.99	17.91	17.95	19.40
		1	99	17.91	18.21	18.12	17.84	17.81	19.40
		50	0	17.95	18.08	18.07	18.01	17.90	19.40
		50	25	18.08	18.24	18.08	18.06	17.94	19.40
		50	50	18.01	18.22	18.08	17.86	17.88	19.40
		100	0	18.04	18.23	18.10	18.02	17.90	19.40

LTE Band 41 PC3									
Receiver on&Receiver off-Div Ant3				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	21.94	21.92	22.01	21.98	21.90	23.00
		1	13	21.78	22.00	21.96	21.77	21.71	23.00
		1	24	21.87	22.16	22.08	21.92	21.76	23.00

		12	0	20.52	21.16	21.16	21.06	20.90	22.00
		12	6	21.12	21.17	21.16	21.06	20.91	22.00
		12	13	21.09	21.17	21.07	20.95	20.86	22.00
		25	0	20.98	21.16	21.17	21.03	20.89	22.00
	16QAM	1	0	21.03	21.07	21.21	21.08	21.05	22.00
		1	13	21.00	21.10	21.11	21.00	20.86	22.00
		1	24	21.10	21.26	21.22	21.11	20.91	22.00
		12	0	20.12	20.07	20.14	20.05	19.95	21.00
		12	6	20.15	20.14	20.20	20.02	19.95	21.00
		12	13	20.04	20.20	20.08	19.93	19.91	21.00
		25	0	20.06	20.16	20.16	20.03	19.95	21.00
	64QAM	1	0	19.82	19.82	19.88	19.88	19.76	21.00
		1	13	19.69	19.88	19.86	19.76	19.60	21.00
		1	24	19.69	19.96	19.82	19.68	19.61	21.00
		12	0	19.03	19.05	19.18	18.97	19.01	20.00
		12	6	19.00	19.14	19.17	19.05	19.01	20.00
		12	13	18.93	19.18	19.11	18.97	18.96	20.00
		25	0	19.02	19.20	19.17	19.08	18.96	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	21.99	21.93	21.96	21.93	22.04	23.00
		1	25	21.82	21.75	21.81	22.05	22.00	23.00
		1	49	21.96	21.79	21.89	22.20	22.11	23.00
		25	0	21.11	20.94	20.55	21.21	21.20	22.00
		25	13	21.11	20.95	21.15	21.22	21.20	22.00
		25	25	20.99	20.91	21.11	21.21	21.12	22.00
		50	0	21.05	20.93	21.02	21.18	21.21	22.00
	16QAM	1	0	21.11	21.07	21.07	21.10	21.23	22.00
		1	25	21.04	20.89	21.04	21.14	21.14	22.00
		1	49	21.13	20.94	21.13	21.28	21.25	22.00
		25	0	20.10	19.99	20.15	20.12	20.18	21.00
		25	13	20.06	19.98	20.17	20.18	20.23	21.00
		25	25	19.98	19.95	20.07	20.25	20.12	21.00
		50	0	20.08	19.99	20.09	20.21	20.20	21.00
	64QAM	1	0	19.87	19.78	19.84	19.81	19.90	21.00
		1	25	19.76	19.63	19.72	19.88	19.89	21.00
		1	49	19.70	19.64	19.68	19.98	19.85	21.00
		25	0	19.02	19.01	19.06	19.10	19.18	20.00
		25	13	19.09	19.04	19.02	19.18	19.20	20.00
		25	25	19.02	19.00	18.96	19.23	19.15	20.00
		50	0	19.13	19.00	19.05	19.25	19.21	20.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	21.95	21.91	21.95	21.89	22.02	23.00
		1	38	21.81	21.72	21.79	22.04	21.97	23.00
		1	74	21.91	21.75	21.86	22.15	22.07	23.00
		36	0	21.07	20.91	20.53	21.17	21.17	22.00
		36	18	21.06	20.91	21.12	21.17	21.16	22.00
		36	39	20.96	20.87	21.08	21.18	21.08	22.00
		75	0	21.01	20.88	21.00	21.14	21.16	22.00
	16QAM	1	0	21.09	21.05	21.05	21.08	21.21	22.00
		1	38	21.01	20.87	21.02	21.11	21.12	22.00
		1	74	21.09	20.91	21.11	21.24	21.22	22.00
		36	0	20.08	19.96	20.12	20.10	20.15	21.00
		36	18	20.01	19.94	20.14	20.13	20.19	21.00
		36	39	19.94	19.92	20.05	20.21	20.09	21.00
		75	0	20.03	19.95	20.06	20.16	20.16	21.00
	64QAM	1	0	19.85	19.76	19.79	19.79	19.88	21.00
		1	38	19.73	19.61	19.70	19.85	19.87	21.00
		1	74	19.69	19.65	19.69	19.97	19.86	21.00
		36	0	19.04	19.02	19.05	19.12	19.19	20.00
		36	18	19.06	19.03	19.00	19.15	19.19	20.00
		36	39	18.98	18.97	18.94	19.19	19.12	20.00
		75	0	19.08	18.96	19.02	19.20	19.17	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	21.92	21.85	21.99	21.91	21.88	23.00
		1	50	21.78	22.00	21.95	21.77	21.70	23.00
		1	99	21.84	22.14	22.04	21.90	21.72	23.00
		50	0	20.50	21.12	21.13	21.02	20.87	22.00
		50	25	21.10	21.13	21.13	21.02	20.88	22.00
		50	50	21.05	21.13	21.04	20.91	20.83	22.00
		100	0	20.97	21.09	21.12	20.96	20.84	22.00
	16QAM	1	0	21.02	21.04	21.16	21.05	21.00	22.00
		1	50	20.99	21.09	21.08	20.99	20.83	22.00
		1	99	21.08	21.21	21.20	21.06	20.89	22.00
		50	0	20.09	20.06	20.12	20.04	19.93	21.00
		50	25	20.11	20.11	20.16	19.99	19.91	21.00
		50	50	20.02	20.16	20.05	19.89	19.88	21.00
		100	0	20.04	20.12	20.13	19.99	19.92	21.00
	64QAM	1	0	19.77	19.75	19.83	19.81	19.71	21.00
		1	50	19.66	19.83	19.83	19.71	19.57	21.00
		1	99	19.63	19.91	19.80	19.63	19.59	21.00
		50	0	19.00	19.04	19.12	18.96	18.95	20.00

		50	25	18.96	19.11	19.13	19.02	18.97	20.00
		50	50	18.91	19.14	19.08	18.93	18.93	20.00
		100	0	19.00	19.16	19.14	19.04	18.93	20.00

LTE Band 41 PC3									
Hotspot on-Div Ant3				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	17.27	17.37	17.45	17.46	17.24	18.30
		1	13	17.13	17.34	17.34	17.27	17.08	18.30
		1	24	17.17	17.45	17.53	17.33	17.17	18.30
		12	0	17.40	17.54	17.55	17.44	17.36	18.30
		12	6	17.36	17.58	17.55	17.47	17.36	18.30
		12	13	17.40	17.60	17.50	17.36	17.33	18.30
		25	0	17.39	17.59	17.60	17.50	17.38	18.30
	16QAM	1	0	17.40	17.42	17.60	17.52	17.44	18.30
		1	13	17.28	17.49	17.55	17.40	17.28	18.30
		1	24	17.32	17.60	17.64	17.48	17.36	18.30
		12	0	17.46	17.46	17.52	17.44	17.31	18.30
		12	6	17.40	17.53	17.56	17.49	17.34	18.30
		12	13	17.34	17.62	17.53	17.36	17.35	18.30
		25	0	17.34	17.52	17.61	17.46	17.33	18.30
	64QAM	1	0	17.08	17.15	17.32	17.15	17.15	18.30
		1	13	17.00	17.14	17.23	17.17	16.95	18.30
		1	24	17.02	17.28	17.27	17.05	17.04	18.30
		12	0	17.41	17.51	17.61	17.42	17.38	18.30
		12	6	17.31	17.53	17.62	17.50	17.34	18.30
		12	13	17.36	17.62	17.50	17.40	17.30	18.30
		25	0	17.33	17.54	17.55	17.47	17.36	18.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	17.29	17.38	17.48	17.47	17.27	18.30
		1	25	17.16	17.39	17.38	17.32	17.12	18.30
		1	49	17.19	17.49	17.56	17.37	17.20	18.30
		25	0	17.43	17.59	17.59	17.49	17.40	18.30
		25	13	17.39	17.63	17.59	17.52	17.40	18.30
		25	25	17.42	17.64	17.55	17.40	17.38	18.30
		50	0	17.43	17.61	17.64	17.52	17.42	18.30
	16QAM	1	0	17.44	17.45	17.62	17.55	17.46	18.30
		1	25	17.32	17.53	17.58	17.44	17.31	18.30
		1	49	17.35	17.62	17.67	17.50	17.39	18.30
		25	0	17.49	17.51	17.56	17.49	17.35	18.30
25		13	17.42	17.57	17.59	17.53	17.37	18.30	

		25	25	17.37	17.67	17.57	17.41	17.39	18.30
		50	0	17.37	17.57	17.65	17.51	17.37	18.30
	64QAM	1	0	17.10	17.14	17.34	17.14	17.17	18.30
		1	25	17.03	17.14	17.26	17.17	16.98	18.30
		1	49	17.01	17.30	17.30	17.07	17.07	18.30
		25	0	17.44	17.56	17.61	17.47	17.38	18.30
		25	13	17.33	17.57	17.65	17.54	17.37	18.30
		25	25	17.39	17.67	17.54	17.45	17.34	18.30
		50	0	17.36	17.59	17.59	17.52	17.40	18.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	17.43	17.25	17.28	17.34	17.46	18.30
		1	38	17.31	17.09	17.14	17.38	17.35	18.30
		1	74	17.32	17.16	17.16	17.44	17.52	18.30
		36	0	17.45	17.37	17.41	17.55	17.56	18.30
		36	18	17.47	17.36	17.36	17.58	17.55	18.30
		36	39	17.37	17.34	17.39	17.61	17.51	18.30
		75	0	17.48	17.37	17.41	17.57	17.59	18.30
	16QAM	1	0	17.53	17.44	17.42	17.43	17.60	18.30
		1	38	17.41	17.29	17.30	17.50	17.56	18.30
		1	74	17.46	17.36	17.33	17.58	17.64	18.30
		36	0	17.47	17.32	17.46	17.49	17.53	18.30
		36	18	17.48	17.33	17.39	17.52	17.55	18.30
		36	39	17.37	17.36	17.35	17.63	17.54	18.30
		75	0	17.46	17.33	17.34	17.52	17.61	18.30
	64QAM	1	0	17.12	17.15	17.05	17.12	17.32	18.30
		1	38	17.14	16.96	17.01	17.11	17.24	18.30
		1	74	17.06	17.08	17.02	17.29	17.31	18.30
		36	0	17.49	17.39	17.43	17.58	17.62	18.30
		36	18	17.51	17.36	17.31	17.54	17.64	18.30
		36	39	17.41	17.31	17.37	17.63	17.51	18.30
		75	0	17.47	17.36	17.33	17.54	17.55	18.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	17.25	17.30	17.43	17.39	17.22	18.30
		1	50	17.13	17.34	17.33	17.27	17.07	18.30
		1	99	17.14	17.43	17.49	17.31	17.13	18.30
		50	0	17.38	17.50	17.52	17.40	17.33	18.30
		50	25	17.34	17.54	17.52	17.43	17.33	18.30
		50	50	17.36	17.56	17.47	17.32	17.30	18.30
		100	0	17.38	17.52	17.55	17.43	17.33	18.30
	16QAM	1	0	17.39	17.39	17.55	17.49	17.39	18.30
		1	50	17.27	17.48	17.52	17.39	17.25	18.30

		1	99	17.30	17.55	17.62	17.43	17.34	18.30
		50	0	17.43	17.45	17.50	17.43	17.29	18.30
		50	25	17.36	17.50	17.52	17.46	17.30	18.30
		50	50	17.32	17.58	17.50	17.32	17.32	18.30
		100	0	17.32	17.48	17.58	17.42	17.30	18.30
	64QAM	1	0	17.03	17.08	17.27	17.08	17.10	18.30
		1	50	16.97	17.09	17.20	17.12	16.92	18.30
		1	99	16.96	17.23	17.25	17.00	17.02	18.30
		50	0	17.38	17.50	17.55	17.41	17.32	18.30
		50	25	17.27	17.50	17.58	17.47	17.30	18.30
		50	50	17.34	17.58	17.47	17.36	17.27	18.30
		100	0	17.31	17.50	17.52	17.43	17.33	18.30

LTE Band 41 PC3									
Receiver on&Receiver off&Hotspot on-Div Ant1				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	20.87	20.93	20.23	19.93	20.16	21.50
		1	13	20.77	20.75	20.04	19.86	20.22	21.50
		1	24	20.86	20.68	20.04	19.95	20.48	21.50
		12	0	19.93	19.90	19.34	18.98	19.39	20.50
		12	6	19.95	20.00	19.26	18.99	19.50	20.50
		12	13	20.05	19.93	19.13	18.93	19.46	20.50
		25	0	19.90	20.02	19.24	19.01	19.45	20.50
	16QAM	1	0	19.96	19.97	19.42	19.01	19.36	20.50
		1	13	19.96	19.91	19.22	18.87	19.39	20.50
		1	24	20.02	19.89	19.23	19.07	19.67	20.50
		12	0	18.95	18.82	18.33	18.00	18.38	19.50
		12	6	19.01	19.00	18.32	18.03	18.50	19.50
		12	13	19.04	18.95	18.21	17.96	18.55	19.50
		25	0	18.97	19.02	18.31	18.04	18.52	19.50
	64QAM	1	0	18.58	18.66	18.10	17.67	18.05	19.50
		1	13	18.69	18.61	17.94	17.68	18.09	19.50
		1	24	18.72	18.61	17.85	17.71	18.19	19.50
		12	0	17.99	17.99	17.41	16.99	17.46	18.50
		12	6	18.00	18.06	17.32	17.04	17.52	18.50
		12	13	17.99	18.02	17.16	17.00	17.55	18.50
		25	0	17.87	18.03	17.28	17.02	17.51	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
10MHz	QPSK	1	0	20.89	20.94	20.26	19.92	20.15	21.50
		1	25	20.80	20.80	20.08	19.87	20.23	21.50

		1	49	20.88	20.72	20.07	19.94	20.47	21.50
		25	0	19.96	19.95	19.38	18.98	19.39	20.50
		25	13	19.98	20.05	19.30	19.00	19.49	20.50
		25	25	20.07	19.97	19.18	18.95	19.47	20.50
		50	0	19.94	20.04	19.28	19.02	19.47	20.50
	16QAM	1	0	20.00	20.00	19.44	19.00	19.35	20.50
		1	25	20.00	19.95	19.25	18.89	19.39	20.50
		1	49	20.05	19.91	19.26	19.07	19.66	20.50
		25	0	18.98	18.87	18.37	18.01	18.39	19.50
		25	13	19.03	19.04	18.35	18.02	18.49	19.50
		25	25	19.07	19.00	18.25	17.96	18.55	19.50
		50	0	19.00	19.07	18.35	18.05	18.51	19.50
	64QAM	1	0	18.60	18.65	18.12	17.66	18.04	19.50
		1	25	18.72	18.61	17.97	17.70	18.09	19.50
		1	49	18.71	18.63	17.88	17.71	18.18	19.50
		25	0	18.02	18.04	17.41	17.00	17.47	18.50
		25	13	18.02	18.10	17.35	17.03	17.51	18.50
		25	25	18.02	18.07	17.20	17.00	17.55	18.50
		50	0	17.90	18.08	17.32	17.03	17.50	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	20.88	20.90	20.24	19.88	20.13	21.50
		1	38	20.78	20.79	20.05	19.86	20.20	21.50
		1	74	20.85	20.67	20.03	19.89	20.43	21.50
		36	0	19.94	19.91	19.35	18.94	19.36	20.50
		36	18	19.95	20.00	19.26	18.95	19.45	20.50
		36	39	20.04	19.94	19.14	18.92	19.43	20.50
		75	0	19.92	20.00	19.23	18.98	19.42	20.50
	16QAM	1	0	19.98	19.98	19.42	18.98	19.33	20.50
		1	38	19.98	19.92	19.23	18.86	19.37	20.50
		1	74	20.03	19.87	19.23	19.03	19.63	20.50
		36	0	18.95	18.85	18.34	17.99	18.36	19.50
		36	18	19.00	18.99	18.31	17.97	18.45	19.50
		36	39	19.05	18.96	18.22	17.92	18.52	19.50
		75	0	18.97	19.02	18.31	18.00	18.47	19.50
	64QAM	1	0	18.55	18.63	18.10	17.64	18.02	19.50
		1	38	18.70	18.58	17.95	17.67	18.07	19.50
		1	74	18.72	18.62	17.89	17.70	18.19	19.50
		36	0	18.01	18.06	17.42	17.02	17.48	18.50
		36	18	18.00	18.07	17.34	17.00	17.50	18.50
		36	39	18.00	18.03	17.17	16.96	17.52	18.50
		75	0	17.87	18.03	17.28	16.98	17.46	18.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	20.85	20.86	20.21	19.84	20.10	21.50
		1	50	20.77	20.75	20.03	19.82	20.18	21.50
		1	99	20.83	20.66	20.00	19.88	20.40	21.50
		50	0	19.91	19.86	19.31	18.89	19.32	20.50
		50	25	19.93	19.96	19.23	18.91	19.42	20.50
		50	50	20.01	19.89	19.10	18.87	19.39	20.50
		100	0	19.89	19.95	19.19	18.93	19.38	20.50
	16QAM	1	0	19.95	19.94	19.37	18.94	19.28	20.50
		1	50	19.95	19.90	19.19	18.84	19.33	20.50
		1	99	20.00	19.84	19.21	19.00	19.61	20.50
		50	0	18.92	18.81	18.31	17.95	18.33	19.50
		50	25	18.97	18.97	18.28	17.95	18.42	19.50
		50	50	19.02	18.91	18.18	17.87	18.48	19.50
		100	0	18.95	18.98	18.28	17.96	18.44	19.50
	64QAM	1	0	18.53	18.59	18.05	17.60	17.97	19.50
		1	50	18.66	18.56	17.91	17.65	18.03	19.50
		1	99	18.66	18.56	17.83	17.64	18.13	19.50
		50	0	17.96	17.98	17.35	16.94	17.41	18.50
		50	25	17.96	18.03	17.28	16.96	17.44	18.50
		50	50	17.97	17.98	17.13	16.91	17.48	18.50
		100	0	17.85	17.99	17.25	16.94	17.43	18.50

LTE Band 41 PC3									
Receiver on&Receiver off-Div Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	19.11	19.16	19.80	20.32	20.27	20.50
		1	13	18.87	19.22	19.83	20.18	20.03	20.50
		1	24	18.92	19.53	20.19	20.38	19.98	20.50
		12	0	18.17	18.38	19.02	19.32	19.25	19.50
		12	6	18.03	18.48	19.12	19.35	19.27	19.50
		12	13	17.98	18.45	19.11	19.26	19.22	19.50
		25	0	18.01	18.53	19.13	19.37	19.30	19.50
	16QAM	1	0	18.21	18.25	19.03	19.31	19.47	19.50
		1	13	17.98	18.35	19.07	19.26	19.22	19.50
		1	24	17.99	18.62	19.27	19.38	19.12	19.50
		12	0	17.15	17.34	18.02	18.30	18.27	18.50
		12	6	17.06	17.45	18.15	18.39	18.35	18.50
		12	13	17.04	17.57	18.11	18.35	18.23	18.50
		25	0	17.02	17.50	18.14	18.40	18.29	18.50
	64QAM	1	0	16.98	16.91	17.71	18.04	18.17	18.50

		1	13	16.84	17.06	17.78	18.04	17.90	18.50
		1	24	16.68	17.23	17.93	17.97	17.79	18.50
		12	0	16.22	16.35	17.02	17.36	17.27	17.50
		12	6	16.11	16.51	17.17	17.37	17.31	17.50
		12	13	16.05	16.56	17.21	17.32	17.19	17.50
		25	0	16.06	16.53	17.19	17.36	17.27	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	19.10	19.12	19.78	20.33	20.30	20.50
		1	25	18.85	19.21	19.80	20.23	20.07	20.50
		1	49	18.89	19.48	20.15	20.42	20.01	20.50
		25	0	18.15	18.34	18.99	19.37	19.29	19.50
		25	13	18.00	18.43	19.08	19.40	19.31	19.50
		25	25	17.95	18.42	19.07	19.30	19.27	19.50
		50	0	17.99	18.49	19.08	19.39	19.34	19.50
	16QAM	1	0	18.19	18.23	19.01	19.34	19.49	19.50
		1	25	17.96	18.32	19.05	19.30	19.25	19.50
		1	49	17.97	18.58	19.24	19.40	19.15	19.50
		25	0	17.12	17.32	17.99	18.35	18.31	18.50
		25	13	17.03	17.40	18.11	18.43	18.38	18.50
		25	25	17.02	17.53	18.08	18.40	18.27	18.50
		50	0	16.99	17.45	18.10	18.45	18.33	18.50
	64QAM	1	0	16.93	16.89	17.69	18.03	18.19	18.50
		1	25	16.82	17.03	17.76	18.04	17.93	18.50
		1	49	16.69	17.22	17.94	17.99	17.82	18.50
		25	0	16.21	16.37	17.03	17.41	17.27	17.50
		25	13	16.09	16.48	17.16	17.41	17.34	17.50
		25	25	16.03	16.52	17.18	17.37	17.23	17.50
		50	0	16.03	16.48	17.15	17.41	17.31	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	19.07	19.08	19.75	20.29	20.28	20.50
		1	38	18.84	19.17	19.78	20.22	20.04	20.50
		1	74	18.87	19.47	20.12	20.37	19.97	20.50
		36	0	18.12	18.29	18.95	19.33	19.26	19.50
		36	18	17.98	18.39	19.05	19.35	19.27	19.50
		36	39	17.92	18.37	19.03	19.27	19.23	19.50
		75	0	17.96	18.44	19.04	19.35	19.29	19.50
	16QAM	1	0	18.16	18.19	18.96	19.32	19.47	19.50
		1	38	17.93	18.30	19.01	19.27	19.23	19.50
		1	74	17.94	18.55	19.22	19.36	19.12	19.50
		36	0	17.09	17.28	17.96	18.33	18.28	18.50
		36	18	17.00	17.38	18.08	18.38	18.34	18.50

		36	39	16.99	17.48	18.04	18.36	18.24	18.50
		75	0	16.97	17.41	18.07	18.40	18.29	18.50
	64QAM	1	0	16.91	16.85	17.64	18.01	18.17	18.50
		1	38	16.78	17.01	17.72	18.01	17.91	18.50
		1	74	16.63	17.16	17.88	17.98	17.83	18.50
		36	0	16.16	16.29	16.96	17.43	17.28	17.50
		36	18	16.05	16.44	17.10	17.38	17.33	17.50
		36	39	16.00	16.47	17.14	17.33	17.20	17.50
		75	0	16.01	16.44	17.12	17.36	17.27	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	19.02	18.99	19.69	20.25	20.25	20.50
		1	50	18.82	19.13	19.74	20.18	20.02	20.50
		1	99	18.81	19.40	20.04	20.36	19.94	20.50
		50	0	18.07	18.20	18.88	19.28	19.22	19.50
		50	25	17.94	18.31	18.97	19.31	19.24	19.50
		50	50	17.86	18.31	18.96	19.22	19.19	19.50
		100	0	17.95	18.36	18.97	19.30	19.25	19.50
	16QAM	1	0	18.15	18.12	18.88	19.28	19.42	19.50
		1	50	17.92	18.27	18.95	19.25	19.19	19.50
		1	99	17.89	18.48	19.16	19.33	19.10	19.50
		50	0	17.04	17.23	17.91	18.29	18.25	18.50
		50	25	16.93	17.30	18.00	18.36	18.31	18.50
		50	50	16.94	17.39	17.97	18.31	18.20	18.50
		100	0	16.93	17.33	17.99	18.36	18.26	18.50
	64QAM	1	0	16.83	16.78	17.56	17.97	18.12	18.50
		1	50	16.72	16.98	17.66	17.99	17.87	18.50
		1	99	16.58	17.09	17.82	17.92	17.77	18.50
		50	0	16.11	16.24	16.91	17.35	17.21	17.50
		50	25	15.98	16.36	17.02	17.34	17.27	17.50
		50	50	15.95	16.38	17.07	17.28	17.16	17.50
		100	0	15.97	16.36	17.04	17.32	17.24	17.50

LTE Band 41 PC3									
Hotspot on-Div Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	16.10	16.24	16.97	17.43	17.56	17.70
		1	13	15.90	16.34	17.00	17.31	17.31	17.70
		1	24	15.93	16.57	17.25	17.49	17.29	17.70
		12	0	16.17	16.38	17.08	17.51	17.50	17.70
		12	6	16.21	16.43	17.21	17.52	17.44	17.70
		12	13	16.18	16.60	17.26	17.43	17.37	17.70

		25	0	16.17	16.45	17.24	17.56	17.44	17.70
		1	0	16.24	16.22	17.11	17.49	17.60	17.70
		1	13	16.09	16.39	17.11	17.44	17.37	17.70
		1	24	16.02	16.60	17.40	17.57	17.27	17.70
		12	0	16.19	16.33	17.12	17.30	17.62	17.70
		12	6	16.16	16.40	17.24	17.50	17.51	17.70
		12	13	16.10	16.60	17.28	17.39	17.42	17.70
		25	0	16.15	16.40	17.19	17.46	17.49	17.70
		1	0	15.86	15.82	16.72	17.30	17.33	17.70
		1	13	15.81	16.06	16.79	17.25	17.09	17.70
		1	24	15.86	16.32	17.04	17.27	17.03	17.70
		12	0	16.20	16.27	17.13	17.29	17.31	17.50
		12	6	16.17	16.37	17.23	17.22	17.22	17.50
		12	13	16.09	16.58	17.24	17.25	17.14	17.50
		25	0	16.11	16.36	17.20	17.28	17.22	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	16.12	16.25	17.00	17.44	17.59	17.70
		1	25	15.93	16.39	17.04	17.36	17.35	17.70
		1	49	15.95	16.61	17.28	17.53	17.32	17.70
		25	0	16.20	16.43	17.12	17.56	17.54	17.70
		25	13	16.24	16.48	17.25	17.57	17.48	17.70
		25	25	16.20	16.64	17.31	17.47	17.42	17.70
		50	0	16.21	16.47	17.28	17.58	17.48	17.70
	16QAM	1	0	16.28	16.25	17.13	17.52	17.62	17.70
		1	25	16.13	16.43	17.14	17.48	17.40	17.70
		1	49	16.05	16.62	17.43	17.59	17.30	17.70
		25	0	16.22	16.38	17.16	17.35	17.66	17.70
		25	13	16.18	16.44	17.27	17.54	17.54	17.70
		25	25	16.13	16.65	17.32	17.44	17.46	17.70
		50	0	16.18	16.45	17.23	17.51	17.53	17.70
	64QAM	1	0	15.88	15.81	16.74	17.29	17.35	17.70
		1	25	15.84	16.06	16.82	17.25	17.12	17.70
		1	49	15.85	16.34	17.07	17.29	17.06	17.70
		25	0	16.23	16.32	17.13	17.34	17.31	17.50
		25	13	16.19	16.41	17.26	17.26	17.25	17.50
		25	25	16.12	16.63	17.28	17.30	17.18	17.50
		50	0	16.14	16.41	17.24	17.33	17.26	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	16.11	16.21	16.98	17.40	17.57	17.70
		1	38	15.91	16.38	17.01	17.35	17.32	17.70
		1	74	15.92	16.56	17.24	17.48	17.28	17.70

		36	0	16.18	16.39	17.09	17.52	17.51	17.70
		36	18	16.21	16.43	17.21	17.52	17.44	17.70
		36	39	16.17	16.61	17.27	17.44	17.38	17.70
		75	0	16.19	16.43	17.23	17.54	17.43	17.70
	16QAM	1	0	16.26	16.23	17.11	17.50	17.60	17.70
		1	38	16.11	16.40	17.12	17.45	17.38	17.70
		1	74	16.03	16.58	17.40	17.55	17.27	17.70
		36	0	16.19	16.36	17.13	17.33	17.63	17.70
		36	18	16.15	16.39	17.23	17.49	17.50	17.70
		36	39	16.11	16.61	17.29	17.40	17.43	17.70
		75	0	16.15	16.40	17.19	17.46	17.49	17.70
	64QAM	1	0	15.83	15.79	16.72	17.27	17.33	17.70
		1	38	15.82	16.03	16.80	17.22	17.10	17.70
		1	74	15.86	16.33	17.08	17.28	17.07	17.70
		36	0	16.22	16.34	17.14	17.36	17.32	17.50
		36	18	16.17	16.38	17.25	17.23	17.24	17.50
		36	39	16.10	16.59	17.25	17.26	17.15	17.50
		75	0	16.11	16.36	17.20	17.28	17.22	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	16.08	16.17	16.95	17.36	17.54	17.70
		1	50	15.90	16.34	16.99	17.31	17.30	17.70
		1	99	15.90	16.55	17.21	17.47	17.25	17.70
		50	0	16.15	16.34	17.05	17.47	17.47	17.70
		50	25	16.19	16.39	17.18	17.48	17.41	17.70
		50	50	16.14	16.56	17.23	17.39	17.34	17.70
		100	0	16.16	16.38	17.19	17.49	17.39	17.70
	16QAM	1	0	16.23	16.19	17.06	17.46	17.55	17.70
		1	50	16.08	16.38	17.08	17.43	17.34	17.70
		1	99	16.00	16.55	17.38	17.52	17.25	17.70
		50	0	16.16	16.32	17.10	17.29	17.60	17.70
		50	25	16.12	16.37	17.20	17.47	17.47	17.70
		50	50	16.08	16.56	17.25	17.35	17.39	17.70
		100	0	16.13	16.36	17.16	17.42	17.46	17.70
	64QAM	1	0	15.81	15.75	16.67	17.23	17.28	17.70
		1	50	15.78	16.01	16.76	17.20	17.06	17.70
		1	99	15.80	16.27	17.02	17.22	17.01	17.70
		50	0	16.17	16.26	17.07	17.28	17.25	17.50
		50	25	16.13	16.34	17.19	17.19	17.18	17.50
		50	50	16.07	16.54	17.21	17.21	17.11	17.50
		100	0	16.09	16.32	17.17	17.24	17.19	17.50

LTE Band 66							
Receiver on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	23.00	23.23	23.11	24.50
		1	2	22.92	23.01	22.92	24.50
		1	5	22.93	23.00	23.01	24.50
		3	0	22.90	23.12	23.03	24.50
		3	2	22.96	23.08	23.03	24.50
		3	3	23.01	23.09	23.05	24.50
		6	0	21.98	22.18	22.10	23.50
	16QAM	1	0	22.22	22.51	22.46	23.50
		1	2	22.16	22.37	22.33	23.50
		1	5	22.25	22.36	22.27	23.50
		3	0	21.89	22.04	22.01	23.50
		3	2	22.01	22.06	22.03	23.50
		3	3	22.00	22.16	22.04	23.50
		6	0	21.03	21.14	21.14	22.50
	64QAM	1	0	21.10	21.31	21.19	22.50
		1	2	21.21	21.15	21.27	22.50
		1	5	21.11	21.18	21.02	22.50
		3	0	20.90	21.04	21.06	22.50
		3	2	21.06	21.10	21.07	22.50
		3	3	21.01	21.16	21.09	22.50
		6	0	20.06	20.18	20.13	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.02	23.27	23.14	24.50
		1	7	22.90	23.04	22.96	24.50
		1	14	22.96	23.05	23.05	24.50
		8	0	22.00	22.24	22.16	23.50
		8	4	22.08	22.18	22.15	23.50
		8	7	22.11	22.20	22.15	23.50
		15	0	21.98	22.22	22.13	23.50
	16QAM	1	0	22.22	22.53	22.49	23.50
		1	7	22.16	22.37	22.37	23.50
		1	14	22.27	22.40	22.30	23.50
		8	0	21.00	21.17	21.13	22.50
		8	4	21.12	21.19	21.15	22.50
		8	7	21.10	21.28	21.17	22.50
		15	0	21.06	21.18	21.17	22.50
	64QAM	1	0	21.13	21.33	21.22	22.50
		1	7	21.24	21.15	21.29	22.50

		1	14	21.13	21.17	21.05	22.50
		8	0	20.01	20.17	20.18	21.50
		8	4	20.17	20.23	20.19	21.50
		8	7	20.11	20.28	20.22	21.50
		15	0	20.09	20.22	20.16	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.00	23.22	23.11	24.50
		1	13	22.89	23.04	22.94	24.50
		1	24	22.92	22.99	23.00	24.50
		12	0	21.98	22.20	22.13	23.50
		12	6	22.06	22.14	22.10	23.50
		12	13	22.08	22.19	22.12	23.50
		25	0	22.00	22.19	22.10	23.50
	16QAM	1	0	22.24	22.50	22.46	23.50
		1	13	22.18	22.36	22.35	23.50
		1	24	22.25	22.36	22.26	23.50
		12	0	20.98	21.16	21.11	22.50
		12	6	21.08	21.13	21.10	22.50
		12	13	21.08	21.24	21.14	22.50
		25	0	21.04	21.14	21.12	22.50
	64QAM	1	0	21.07	21.30	21.19	22.50
		1	13	21.22	21.14	21.27	22.50
		1	24	21.14	21.16	21.05	22.50
		12	0	20.01	20.20	20.20	21.50
		12	6	20.14	20.19	20.17	21.50
		12	13	20.09	20.24	20.19	21.50
		25	0	20.07	20.18	20.11	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	22.97	23.18	23.08	24.50
		1	25	22.88	23.00	22.92	24.50
		1	49	22.90	22.98	22.97	24.50
		25	0	21.95	22.15	22.09	23.50
		25	13	22.04	22.10	22.07	23.50
		25	25	22.05	22.14	22.08	23.50
		50	0	21.97	22.14	22.06	23.50
	16QAM	1	0	22.21	22.46	22.41	23.50
		1	25	22.15	22.34	22.31	23.50
		1	49	22.22	22.33	22.24	23.50
		25	0	20.95	21.12	21.08	22.50
		25	13	21.05	21.11	21.07	22.50
		25	25	21.05	21.19	21.10	22.50

	64QAM	50	0	21.02	21.10	21.09	22.50
		1	0	21.05	21.26	21.14	22.50
		1	25	21.18	21.12	21.23	22.50
		1	49	21.08	21.10	20.99	22.50
		25	0	19.96	20.12	20.13	21.50
		25	13	20.10	20.15	20.11	21.50
		25	25	20.06	20.19	20.15	21.50
		50	0	20.05	20.14	20.08	21.50
		50	0	20.05	20.14	20.08	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	22.94	23.16	23.04	24.50
		1	38	22.86	22.96	22.89	24.50
		1	74	22.87	22.93	22.93	24.50
		36	0	21.92	22.10	22.05	23.50
		36	18	22.02	22.06	22.02	23.50
		36	39	22.03	22.12	22.04	23.50
		75	0	21.97	22.13	22.04	23.50
	16QAM	1	0	22.21	22.42	22.38	23.50
		1	38	22.15	22.32	22.28	23.50
		1	74	22.19	22.31	22.20	23.50
		36	0	20.93	21.08	21.05	22.50
		36	18	21.02	21.06	21.03	22.50
		36	39	21.02	21.14	21.06	22.50
		75	0	21.00	21.06	21.04	22.50
	64QAM	1	0	21.02	21.26	21.11	22.50
		1	38	21.15	21.14	21.20	22.50
		1	74	21.09	21.08	20.95	22.50
		36	0	19.94	20.08	20.14	21.50
		36	18	20.07	20.10	20.07	21.50
		36	39	20.03	20.14	20.11	21.50
		75	0	20.03	20.10	20.03	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	22.92	23.09	23.02	24.50
		1	50	22.86	22.96	22.88	24.50
		1	99	22.84	22.91	22.89	24.50
		50	0	21.90	22.06	22.02	23.50
		50	25	22.00	22.02	21.99	23.50
		50	50	21.99	22.08	22.01	23.50
		100	0	21.96	22.06	21.99	23.50
	16QAM	1	0	22.20	22.39	22.33	23.50
		1	50	22.14	22.31	22.25	23.50
		1	99	22.17	22.26	22.18	23.50

		50	0	20.90	21.07	21.03	22.50
		50	25	20.98	21.03	20.99	22.50
		50	50	21.00	21.10	21.03	22.50
		100	0	20.98	21.02	21.01	22.50
	64QAM	1	0	20.97	21.19	21.06	22.50
		1	50	21.12	21.09	21.17	22.50
		1	99	21.03	21.03	20.93	22.50
		50	0	19.91	20.07	20.08	21.50
		50	25	20.03	20.07	20.03	21.50
		50	50	20.01	20.10	20.08	21.50
		100	0	20.01	20.06	20.00	21.50

LTE Band 66							
Receiver off-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.93	22.13	22.06	23.50
		1	2	21.83	22.01	21.95	23.50
		1	5	21.85	22.02	21.89	23.50
		3	0	22.09	22.29	22.17	23.50
		3	2	22.16	22.23	22.16	23.50
		3	3	22.17	22.24	22.22	23.50
		6	0	22.02	22.11	22.01	23.50
	16QAM	1	0	22.17	22.42	22.35	23.50
		1	2	22.16	22.40	22.23	23.50
		1	5	22.22	22.33	22.19	23.50
		3	0	21.87	22.01	21.93	23.50
		3	2	21.96	22.00	21.96	23.50
		3	3	21.95	22.06	21.97	23.50
		6	0	20.99	21.14	20.99	22.50
	64QAM	1	0	20.90	21.20	21.17	22.50
		1	2	21.04	21.09	21.10	22.50
		1	5	21.06	21.18	21.00	22.50
		3	0	20.85	21.04	20.98	22.50
		3	2	20.97	21.04	21.02	22.50
		3	3	20.97	21.09	21.01	22.50
		6	0	20.04	20.10	20.07	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.95	22.17	22.09	23.50
		1	7	21.81	22.04	21.99	23.50
		1	14	21.88	22.07	21.93	23.50
		8	0	21.97	22.19	22.08	23.50

		8	4	22.06	22.11	22.06	23.50
		8	7	22.05	22.13	22.10	23.50
		15	0	22.02	22.15	22.04	23.50
	16QAM	1	0	22.17	22.44	22.38	23.50
		1	7	22.16	22.40	22.27	23.50
		1	14	22.24	22.37	22.22	23.50
		8	0	20.98	21.14	21.05	22.50
		8	4	21.07	21.13	21.08	22.50
		8	7	21.05	21.18	21.10	22.50
		15	0	21.02	21.18	21.02	22.50
		1	0	20.93	21.22	21.20	22.50
	64QAM	1	7	21.07	21.09	21.12	22.50
		1	14	21.08	21.17	21.03	22.50
		8	0	19.96	20.17	20.10	21.50
		8	4	20.08	20.17	20.14	21.50
		8	7	20.07	20.21	20.14	21.50
		15	0	20.07	20.14	20.10	21.50
		15	0	20.07	20.14	20.10	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.92	22.15	22.05	23.50
		1	13	21.79	22.00	21.96	23.50
		1	24	21.85	22.02	21.89	23.50
		12	0	21.94	22.14	22.04	23.50
		12	6	22.04	22.07	22.01	23.50
		12	13	22.03	22.11	22.06	23.50
		25	0	22.02	22.14	22.02	23.50
	16QAM	1	0	22.17	22.40	22.35	23.50
		1	13	22.16	22.38	22.24	23.50
		1	24	22.21	22.35	22.18	23.50
		12	0	20.96	21.10	21.02	22.50
		12	6	21.04	21.08	21.04	22.50
		12	13	21.02	21.13	21.06	22.50
		25	0	21.00	21.14	20.97	22.50
	64QAM	1	0	20.90	21.22	21.17	22.50
		1	13	21.04	21.11	21.09	22.50
		1	24	21.09	21.15	20.99	22.50
		12	0	19.94	20.13	20.11	21.50
		12	6	20.05	20.12	20.10	21.50
		12	13	20.04	20.16	20.10	21.50
		25	0	20.05	20.10	20.05	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.94	22.16	22.08	23.50

		1	25	21.82	22.05	22.00	23.50
		1	49	21.87	22.06	21.92	23.50
		25	0	21.97	22.19	22.08	23.50
		25	13	22.07	22.12	22.05	23.50
		25	25	22.05	22.15	22.11	23.50
		50	0	22.06	22.16	22.06	23.50
	16QAM	1	0	22.21	22.43	22.37	23.50
		1	25	22.20	22.42	22.27	23.50
		1	49	22.24	22.37	22.21	23.50
		25	0	20.99	21.15	21.06	22.50
		25	13	21.06	21.12	21.07	22.50
		25	25	21.05	21.18	21.10	22.50
		50	0	21.03	21.19	21.01	22.50
	64QAM	1	0	20.92	21.21	21.19	22.50
		1	25	21.07	21.11	21.12	22.50
		1	49	21.08	21.17	21.02	22.50
		25	0	19.97	20.18	20.11	21.50
		25	13	20.07	20.16	20.13	21.50
		25	25	20.07	20.21	20.14	21.50
		50	0	20.08	20.15	20.09	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	21.93	22.12	22.06	23.50
		1	38	21.80	22.04	21.97	23.50
		1	74	21.84	22.01	21.88	23.50
		36	0	21.95	22.15	22.05	23.50
		36	18	22.04	22.07	22.01	23.50
		36	39	22.02	22.12	22.07	23.50
		75	0	22.04	22.12	22.01	23.50
	16QAM	1	0	22.19	22.41	22.35	23.50
		1	38	22.18	22.39	22.25	23.50
		1	74	22.22	22.33	22.18	23.50
		36	0	20.96	21.13	21.03	22.50
		36	18	21.03	21.07	21.03	22.50
		36	39	21.03	21.14	21.07	22.50
		75	0	21.00	21.14	20.97	22.50
	64QAM	1	0	20.87	21.19	21.17	22.50
		1	38	21.05	21.08	21.10	22.50
		1	74	21.09	21.16	21.03	22.50
		36	0	19.96	20.20	20.12	21.50
		36	18	20.05	20.13	20.12	21.50
		36	39	20.05	20.17	20.11	21.50
		75	0	20.05	20.10	20.05	21.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	21.90	22.08	22.03	23.50
		1	50	21.79	22.00	21.95	23.50
		1	99	21.82	22.00	21.85	23.50
		50	0	21.92	22.10	22.01	23.50
		50	25	22.02	22.03	21.98	23.50
		50	50	21.99	22.07	22.03	23.50
		100	0	22.01	22.07	21.97	23.50
	16QAM	1	0	22.16	22.37	22.30	23.50
		1	50	22.15	22.37	22.21	23.50
		1	99	22.19	22.30	22.16	23.50
		50	0	20.93	21.09	21.00	22.50
		50	25	21.00	21.05	21.00	22.50
		50	50	21.00	21.09	21.03	22.50
		100	0	20.98	21.10	20.94	22.50
	64QAM	1	0	20.85	21.15	21.12	22.50
		1	50	21.01	21.06	21.06	22.50
		1	99	21.03	21.10	20.97	22.50
		50	0	19.91	20.12	20.05	21.50
		50	25	20.01	20.09	20.06	21.50
		50	50	20.02	20.12	20.07	21.50
		100	0	20.03	20.06	20.02	21.50

LTE Band 66							
Hotspot on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	20.90	21.19	21.10	22.50
		1	2	20.86	21.07	20.90	22.50
		1	5	20.83	20.96	20.85	22.50
		3	0	20.98	21.16	21.06	22.50
		3	2	21.06	21.16	21.05	22.50
		3	3	21.08	21.18	21.11	22.50
		6	0	21.01	21.10	21.04	22.50
	16QAM	1	0	21.16	21.44	21.39	22.50
		1	2	21.15	21.32	21.27	22.50
		1	5	21.22	21.32	21.19	22.50
		3	0	20.96	21.10	21.09	22.50
		3	2	21.04	21.16	21.06	22.50
		3	3	21.05	21.16	21.10	22.50
		6	0	21.00	21.06	21.04	22.50
	64QAM	1	0	21.15	21.31	21.19	22.50

		1	2	21.15	21.20	21.09	22.50
		1	5	21.17	21.24	21.02	22.50
		3	0	20.87	21.01	21.00	22.50
		3	2	20.97	21.01	20.97	22.50
		3	3	20.98	21.07	20.99	22.50
		6	0	20.01	20.14	20.06	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	20.92	21.23	21.13	22.50
		1	7	20.84	21.10	20.94	22.50
		1	14	20.86	21.01	20.89	22.50
		8	0	20.97	21.17	21.08	22.50
		8	4	21.07	21.15	21.06	22.50
		8	7	21.07	21.18	21.10	22.50
		15	0	21.01	21.14	21.07	22.50
	16QAM	1	0	21.16	21.46	21.42	22.50
		1	7	21.15	21.32	21.31	22.50
		1	14	21.24	21.36	21.22	22.50
		8	0	20.96	21.12	21.10	22.50
		8	4	21.04	21.18	21.07	22.50
		8	7	21.04	21.17	21.12	22.50
		15	0	21.03	21.10	21.07	22.50
	64QAM	1	0	21.18	21.33	21.22	22.50
		1	7	21.18	21.20	21.11	22.50
		1	14	21.19	21.23	21.05	22.50
		8	0	19.98	20.14	20.12	21.50
		8	4	20.08	20.14	20.09	21.50
		8	7	20.08	20.19	20.12	21.50
		15	0	20.04	20.18	20.09	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	20.89	21.21	21.09	22.50
		1	13	20.82	21.06	20.91	22.50
		1	24	20.83	20.96	20.85	22.50
		12	0	20.94	21.12	21.04	22.50
		12	6	21.05	21.11	21.01	22.50
		12	13	21.05	21.16	21.06	22.50
		25	0	21.01	21.13	21.05	22.50
	16QAM	1	0	21.16	21.42	21.39	22.50
		1	13	21.15	21.30	21.28	22.50
		1	24	21.21	21.34	21.18	22.50
		12	0	20.94	21.08	21.07	22.50
		12	6	21.01	21.13	21.03	22.50

		12	13	21.01	21.12	21.08	22.50
		25	0	21.01	21.06	21.02	22.50
	64QAM	1	0	21.15	21.33	21.19	22.50
		1	13	21.15	21.22	21.08	22.50
		1	24	21.20	21.21	21.01	22.50
		12	0	19.96	20.10	20.13	21.50
		12	6	20.05	20.09	20.05	21.50
		12	13	20.05	20.14	20.08	21.50
		25	0	20.02	20.14	20.04	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	20.91	21.22	21.12	22.50
		1	25	20.85	21.11	20.95	22.50
		1	49	20.85	21.00	20.88	22.50
		25	0	20.97	21.17	21.08	22.50
		25	13	21.08	21.16	21.05	22.50
		25	25	21.07	21.20	21.11	22.50
		50	0	21.05	21.15	21.09	22.50
	16QAM	1	0	21.20	21.45	21.41	22.50
		1	25	21.19	21.34	21.31	22.50
		1	49	21.24	21.36	21.21	22.50
		25	0	20.97	21.13	21.11	22.50
		25	13	21.03	21.17	21.06	22.50
		25	25	21.04	21.17	21.12	22.50
		50	0	21.04	21.11	21.06	22.50
	64QAM	1	0	21.17	21.32	21.21	22.50
		1	25	21.18	21.22	21.11	22.50
		1	49	21.19	21.23	21.04	22.50
		25	0	19.99	20.15	20.13	21.50
		25	13	20.07	20.13	20.08	21.50
		25	25	20.08	20.19	20.12	21.50
		50	0	20.05	20.19	20.08	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	20.90	21.18	21.10	22.50
		1	38	20.83	21.10	20.92	22.50
		1	74	20.82	20.95	20.84	22.50
		36	0	20.95	21.13	21.05	22.50
		36	18	21.05	21.11	21.01	22.50
		36	39	21.04	21.17	21.07	22.50
		75	0	21.03	21.11	21.04	22.50
	16QAM	1	0	21.18	21.43	21.39	22.50
		1	38	21.17	21.31	21.29	22.50

		1	74	21.22	21.32	21.18	22.50
		36	0	20.94	21.11	21.08	22.50
		36	18	21.00	21.12	21.02	22.50
		36	39	21.02	21.13	21.09	22.50
		75	0	21.01	21.06	21.02	22.50
	64QAM	1	0	21.12	21.30	21.19	22.50
		1	38	21.16	21.19	21.09	22.50
		1	74	21.20	21.22	21.05	22.50
		36	0	19.98	20.17	20.14	21.50
		36	18	20.05	20.10	20.07	21.50
		36	39	20.06	20.15	20.09	21.50
		75	0	20.02	20.14	20.04	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	20.87	21.52	21.07	22.50
		1	50	20.82	21.06	20.90	22.50
		1	99	20.80	20.94	20.81	22.50
		50	0	20.92	21.08	21.01	22.50
		50	25	21.03	21.07	20.98	22.50
		50	50	21.01	21.50	21.03	22.50
		100	0	21.00	21.06	21.00	22.50
	16QAM	1	0	21.15	21.39	21.34	22.50
		1	50	21.14	21.29	21.25	22.50
		1	99	21.19	21.29	21.16	22.50
		50	0	20.91	21.07	21.05	22.50
		50	25	20.97	21.10	20.99	22.50
		50	50	20.99	21.08	21.05	22.50
		100	0	20.99	21.02	20.99	22.50
	64QAM	1	0	21.10	21.26	21.14	22.50
		1	50	21.12	21.17	21.05	22.50
		1	99	21.14	21.16	20.99	22.50
		50	0	19.93	20.09	20.07	21.50
		50	25	20.01	20.06	20.01	21.50
		50	50	20.03	20.10	20.05	21.50
		100	0	20.00	20.10	20.01	21.50

LTE Band 66							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	18.95	19.10	18.87	20.20
		1	2	18.81	18.85	18.74	20.20
		1	5	18.94	18.76	18.64	20.20

		3	0	18.99	19.03	18.89	20.20
		3	2	19.00	19.02	18.84	20.20
		3	3	19.00	18.98	18.87	20.20
		6	0	18.92	19.05	18.89	20.20
	16QAM	1	0	19.03	19.13	19.09	20.20
		1	2	18.98	18.90	19.00	20.20
		1	5	19.04	19.02	18.98	20.20
		3	0	19.00	19.00	18.86	20.20
		3	2	19.06	19.03	18.88	20.20
		3	3	18.96	19.01	18.88	20.20
		6	0	18.96	19.02	18.88	20.20
	64QAM	1	0	19.11	19.04	19.09	20.20
		1	2	18.98	19.00	19.04	20.20
		1	5	19.02	18.99	18.94	20.20
		3	0	18.90	18.90	18.90	20.20
		3	2	18.98	18.91	18.90	20.20
		3	3	18.99	18.99	18.91	20.20
		6	0	18.98	19.01	18.85	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	18.93	19.03	18.85	20.20
		1	7	18.81	18.85	18.73	20.20
		1	14	18.91	18.74	18.60	20.20
		8	0	18.97	18.99	18.86	20.20
		8	4	18.98	18.98	18.81	20.20
		8	7	18.96	18.94	18.84	20.20
		15	0	18.91	18.98	18.84	20.20
	16QAM	1	0	19.02	19.10	19.04	20.20
		1	7	18.97	18.89	18.97	20.20
		1	14	19.02	18.97	18.96	20.20
		8	0	18.97	18.99	18.84	20.20
		8	4	19.02	19.00	18.84	20.20
		8	7	18.94	18.97	18.85	20.20
		15	0	18.94	18.98	18.85	20.20
	64QAM	1	0	19.06	18.97	19.04	20.20
		1	7	18.95	18.95	19.01	20.20
		1	14	18.96	18.94	18.92	20.20
		8	0	18.87	18.89	18.84	20.20
		8	4	18.94	18.88	18.86	20.20
		8	7	18.97	18.95	18.88	20.20
		15	0	18.96	18.97	18.82	20.20

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	18.90	19.01	18.81	20.20
		1	13	18.79	18.81	18.70	20.20
		1	24	18.88	18.69	18.56	20.20
		12	0	18.94	18.94	18.82	20.20
		12	6	18.96	18.94	18.76	20.20
		12	13	18.94	18.92	18.80	20.20
		25	0	18.91	18.97	18.82	20.20
	16QAM	1	0	19.02	19.06	19.01	20.20
		1	13	18.97	18.87	18.94	20.20
		1	24	18.99	18.95	18.92	20.20
		12	0	18.95	18.95	18.81	20.20
		12	6	18.99	18.95	18.80	20.20
		12	13	18.91	18.92	18.81	20.20
		25	0	18.92	18.94	18.80	20.20
	64QAM	1	0	19.03	18.97	19.01	20.20
		1	13	18.92	18.97	18.98	20.20
		1	24	18.97	18.92	18.88	20.20
		12	0	18.85	18.85	18.85	20.20
		12	6	18.91	18.83	18.82	20.20
		12	13	18.94	18.90	18.84	20.20
		25	0	18.94	18.93	18.77	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	18.92	19.02	18.84	20.20
		1	25	18.82	18.86	18.74	20.20
		1	49	18.90	18.73	18.59	20.20
		25	0	18.97	18.99	18.86	20.20
		25	13	18.99	18.99	18.80	20.20
		25	25	18.96	18.96	18.85	20.20
		50	0	18.95	18.99	18.86	20.20
	16QAM	1	0	19.06	19.09	19.03	20.20
		1	25	19.01	18.91	18.97	20.20
		1	49	19.02	18.97	18.95	20.20
		25	0	18.98	19.00	18.85	20.20
		25	13	19.01	18.99	18.83	20.20
		25	25	18.94	18.97	18.85	20.20
		50	0	18.95	18.99	18.84	20.20
	64QAM	1	0	19.05	18.96	19.03	20.20
		1	25	18.95	18.97	19.01	20.20
		1	49	18.96	18.94	18.91	20.20
		25	0	18.88	18.90	18.85	20.20

		25	13	18.93	18.87	18.85	20.20
		25	25	18.97	18.95	18.88	20.20
		50	0	18.97	18.98	18.81	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	18.91	18.98	18.82	20.20
		1	38	18.80	18.85	18.71	20.20
		1	74	18.87	18.68	18.55	20.20
		36	0	18.95	18.95	18.83	20.20
		36	18	18.96	18.94	18.76	20.20
		36	39	18.93	18.93	18.81	20.20
		75	0	18.93	18.95	18.81	20.20
	16QAM	1	0	19.04	19.07	19.01	20.20
		1	38	18.99	18.88	18.95	20.20
		1	74	19.00	18.93	18.92	20.20
		36	0	18.95	18.98	18.82	20.20
		36	18	18.98	18.94	18.79	20.20
		36	39	18.92	18.93	18.82	20.20
		75	0	18.92	18.94	18.80	20.20
	64QAM	1	0	19.00	18.94	19.01	20.20
		1	38	18.93	18.94	18.99	20.20
		1	74	18.97	18.93	18.92	20.20
		36	0	18.87	18.92	18.86	20.20
		36	18	18.91	18.84	18.84	20.20
		36	39	18.95	18.91	18.85	20.20
		75	0	18.94	18.93	18.77	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	18.88	18.94	18.79	20.20
		1	50	18.79	18.81	18.69	20.20
		1	99	18.85	18.67	18.52	20.20
		50	0	18.92	18.90	18.79	20.20
		50	25	18.94	18.90	18.73	20.20
		50	50	18.90	18.88	18.77	20.20
		100	0	18.90	18.90	18.77	20.20
	16QAM	1	0	19.01	19.03	18.96	20.20
		1	50	18.96	18.86	18.91	20.20
		1	99	18.97	18.90	18.90	20.20
		50	0	18.92	18.94	18.79	20.20
		50	25	18.95	18.92	18.76	20.20
		50	50	18.89	18.88	18.78	20.20
		100	0	18.90	18.90	18.77	20.20
	64QAM	1	0	18.98	18.90	18.96	20.20

		1	50	18.89	18.92	18.95	20.20
		1	99	18.91	18.87	18.86	20.20
		50	0	18.82	18.84	18.79	20.20
		50	25	18.87	18.80	18.78	20.20
		50	50	18.92	18.86	18.81	20.20
		100	0	18.92	18.89	18.74	20.20

LTE Band 66							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.17	21.29	21.11	22.50
		1	2	21.10	21.04	20.99	22.50
		1	5	21.11	20.99	20.97	22.50
		3	0	21.22	21.29	21.07	22.50
		3	2	21.19	21.24	21.07	22.50
		3	3	21.23	21.17	21.15	22.50
		6	0	21.18	21.25	21.13	22.50
	16QAM	1	0	21.32	21.45	21.34	22.50
		1	2	21.28	21.26	21.27	22.50
		1	5	21.32	21.27	21.20	22.50
		3	0	21.14	21.12	20.97	22.50
		3	2	21.18	21.22	21.03	22.50
		3	3	21.15	21.20	21.04	22.50
		6	0	20.20	20.27	20.15	21.50
	64QAM	1	0	20.24	20.36	20.34	21.50
		1	2	20.22	20.18	20.25	21.50
		1	5	20.23	20.27	20.21	21.50
		3	0	20.18	20.17	20.01	21.50
		3	2	20.24	20.23	20.07	21.50
		3	3	20.17	20.20	20.05	21.50
		6	0	19.20	19.29	19.11	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.17	21.28	21.11	22.50
		1	7	21.07	21.07	21.01	22.50
		1	14	21.10	20.98	20.96	22.50
		8	0	21.25	21.32	21.12	22.50
		8	4	21.24	21.25	21.09	22.50
		8	7	21.25	21.22	21.17	22.50
		15	0	21.20	21.26	21.13	22.50
	16QAM	1	0	21.34	21.44	21.34	22.50
		1	7	21.30	21.25	21.29	22.50

		1	14	21.32	21.27	21.19	22.50
		8	0	20.23	20.24	20.07	21.50
		8	4	20.25	20.29	20.10	21.50
		8	7	20.23	20.28	20.14	21.50
		15	0	20.21	20.27	20.13	21.50
	64QAM	1	0	20.21	20.35	20.34	21.50
		1	7	20.23	20.17	20.25	21.50
		1	14	20.26	20.25	20.24	21.50
		8	0	19.29	19.33	19.15	20.50
		8	4	19.32	19.32	19.17	20.50
		8	7	19.25	19.28	19.15	20.50
		15	0	19.21	19.29	19.09	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.14	21.24	21.08	22.50
		1	13	21.06	21.03	20.99	22.50
		1	24	21.08	20.97	20.93	22.50
		12	0	21.22	21.27	21.08	22.50
		12	6	21.22	21.21	21.06	22.50
		12	13	21.22	21.17	21.13	22.50
		25	0	21.17	21.21	21.09	22.50
	16QAM	1	0	21.31	21.40	21.29	22.50
		1	13	21.27	21.23	21.25	22.50
		1	24	21.29	21.24	21.17	22.50
		12	0	20.20	20.20	20.04	21.50
		12	6	20.22	20.27	20.07	21.50
		12	13	20.20	20.23	20.10	21.50
		25	0	20.19	20.23	20.10	21.50
	64QAM	1	0	20.19	20.31	20.29	21.50
		1	13	20.19	20.15	20.21	21.50
		1	24	20.20	20.19	20.18	21.50
		12	0	19.24	19.25	19.08	20.50
		12	6	19.28	19.28	19.11	20.50
		12	13	19.22	19.23	19.11	20.50
		25	0	19.19	19.25	19.06	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.11	21.22	21.04	22.50
		1	25	21.04	20.99	20.96	22.50
		1	49	21.05	20.92	20.89	22.50
		25	0	21.19	21.22	21.04	22.50
		25	13	21.20	21.17	21.01	22.50
		25	25	21.20	21.15	21.09	22.50

	16QAM	50	0	21.17	21.20	21.07	22.50
		1	0	21.31	21.36	21.26	22.50
		1	25	21.27	21.21	21.22	22.50
		1	49	21.26	21.22	21.13	22.50
		25	0	20.18	20.16	20.01	21.50
		25	13	20.19	20.22	20.03	21.50
		25	25	20.17	20.18	20.06	21.50
		50	0	20.17	20.19	20.05	21.50
	64QAM	1	0	20.16	20.31	20.26	21.50
		1	25	20.16	20.17	20.18	21.50
		1	49	20.21	20.17	20.14	21.50
		25	0	19.22	19.21	19.09	20.50
		25	13	19.25	19.23	19.07	20.50
		25	25	19.19	19.18	19.07	20.50
		50	0	19.17	19.21	19.01	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	21.13	21.23	21.07	22.50
		1	38	21.07	21.04	21.00	22.50
		1	74	21.07	20.96	20.92	22.50
		36	0	21.22	21.27	21.08	22.50
		36	18	21.23	21.22	21.05	22.50
		36	39	21.22	21.19	21.14	22.50
		75	0	21.21	21.22	21.11	22.50
	16QAM	1	0	21.35	21.39	21.28	22.50
		1	38	21.31	21.25	21.25	22.50
		1	74	21.29	21.24	21.16	22.50
		36	0	20.21	20.21	20.05	21.50
		36	18	20.21	20.26	20.06	21.50
		36	39	20.20	20.23	20.10	21.50
		75	0	20.20	20.24	20.09	21.50
	64QAM	1	0	20.18	20.30	20.28	21.50
		1	38	20.19	20.17	20.21	21.50
		1	74	20.20	20.19	20.17	21.50
		36	0	19.25	19.26	19.09	20.50
		36	18	19.27	19.27	19.10	20.50
		36	39	19.22	19.23	19.11	20.50
		75	0	19.20	19.26	19.05	20.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	21.09	21.15	21.02	22.50
		1	50	21.04	20.99	20.95	22.50
		1	99	21.02	20.90	20.85	22.50

		50	0	21.17	21.18	21.01	22.50
		50	25	21.18	21.13	20.98	22.50
		50	50	21.16	21.11	21.06	22.50
		100	0	21.16	21.13	21.02	22.50
	16QAM	1	0	21.30	21.33	21.21	22.50
		1	50	21.26	21.20	21.19	22.50
		1	99	21.24	21.17	21.11	22.50
		50	0	20.15	20.15	19.99	21.50
		50	25	20.15	20.19	19.99	21.50
		50	50	20.15	20.14	20.03	21.50
		100	0	20.15	20.15	20.02	21.50
	64QAM	1	0	20.11	20.24	20.21	21.50
		1	50	20.13	20.12	20.15	21.50
		1	99	20.15	20.12	20.12	21.50
		50	0	19.19	19.20	19.03	20.50
		50	25	19.21	19.20	19.03	20.50
		50	50	19.17	19.14	19.04	20.50
		100	0	19.15	19.17	18.98	20.50

LTE Band 66							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	16.38	16.44	16.25	17.70
		1	2	16.21	16.30	16.20	17.70
		1	5	16.32	16.26	16.15	17.70
		3	0	16.43	16.48	16.36	17.70
		3	2	16.42	16.48	16.29	17.70
		3	3	16.46	16.43	16.33	17.70
		6	0	16.42	16.48	16.35	17.70
	16QAM	1	0	16.54	16.68	16.58	17.70
		1	2	16.46	16.46	16.50	17.70
		1	5	16.47	16.52	16.43	17.70
		3	0	16.35	16.38	16.30	17.70
		3	2	16.38	16.32	16.28	17.70
		3	3	16.32	16.35	16.34	17.70
		6	0	16.32	16.36	16.32	17.70
	64QAM	1	0	16.55	16.53	16.37	17.70
		1	2	16.55	16.37	16.37	17.70
		1	5	16.50	16.39	16.34	17.70
		3	0	16.39	16.42	16.40	17.70
		3	2	16.53	16.52	16.38	17.70
		3	3	16.47	16.50	16.42	17.70

		6	0	16.48	16.48	16.34	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				1319871711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	16.35	16.40	16.22	17.70
		1	7	16.20	16.26	16.18	17.70
		1	14	16.30	16.25	16.12	17.70
		8	0	16.40	16.43	16.32	17.70
		8	4	16.40	16.44	16.26	17.70
		8	7	16.43	16.38	16.29	17.70
		15	0	16.39	16.43	16.31	17.70
	16QAM	1	0	16.51	16.64	16.53	17.70
		1	7	16.43	16.44	16.46	17.70
		1	14	16.44	16.49	16.41	17.70
		8	0	16.32	16.34	16.27	17.70
		8	4	16.35	16.30	16.25	17.70
		8	7	16.29	16.30	16.30	17.70
		15	0	16.30	16.32	16.29	17.70
	64QAM	1	0	16.53	16.49	16.32	17.70
		1	7	16.51	16.35	16.33	17.70
		1	14	16.44	16.33	16.28	17.70
		8	0	16.34	16.34	16.33	17.70
		8	4	16.49	16.48	16.32	17.70
		8	7	16.44	16.45	16.38	17.70
		15	0	16.46	16.44	16.31	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	16.32	16.38	16.18	17.70
		1	13	16.18	16.22	16.15	17.70
		1	24	16.27	16.20	16.08	17.70
		12	0	16.37	16.38	16.28	17.70
		12	6	16.38	16.40	16.21	17.70
		12	13	16.41	16.36	16.25	17.70
		25	0	16.39	16.42	16.29	17.70
	16QAM	1	0	16.51	16.60	16.50	17.70
		1	13	16.43	16.42	16.43	17.70
		1	24	16.41	16.47	16.37	17.70
		12	0	16.30	16.30	16.24	17.70
		12	6	16.32	16.25	16.21	17.70
		12	13	16.26	16.25	16.26	17.70
		25	0	16.28	16.28	16.24	17.70
	64QAM	1	0	16.50	16.49	16.29	17.70
		1	13	16.48	16.37	16.30	17.70
		1	24	16.45	16.31	16.24	17.70

		12	0	16.32	16.30	16.34	17.70
		12	6	16.46	16.43	16.28	17.70
		12	13	16.41	16.40	16.34	17.70
		25	0	16.44	16.40	16.26	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	16.34	16.39	16.21	17.70
		1	25	16.21	16.27	16.19	17.70
		1	49	16.29	16.24	16.11	17.70
		25	0	16.40	16.43	16.32	17.70
		25	13	16.41	16.45	16.25	17.70
		25	25	16.43	16.40	16.30	17.70
		50	0	16.43	16.44	16.33	17.70
	16QAM	1	0	16.55	16.63	16.52	17.70
		1	25	16.47	16.46	16.46	17.70
		1	49	16.44	16.49	16.40	17.70
		25	0	16.33	16.35	16.28	17.70
		25	13	16.34	16.29	16.24	17.70
		25	25	16.29	16.30	16.30	17.70
		50	0	16.31	16.33	16.28	17.70
	64QAM	1	0	16.52	16.48	16.31	17.70
		1	25	16.51	16.37	16.33	17.70
		1	49	16.44	16.33	16.27	17.70
		25	0	16.35	16.35	16.34	17.70
		25	13	16.48	16.47	16.31	17.70
		25	25	16.44	16.45	16.38	17.70
		50	0	16.47	16.45	16.30	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	16.33	16.35	16.19	17.70
		1	38	16.19	16.26	16.16	17.70
		1	74	16.26	16.19	16.07	17.70
		36	0	16.38	16.39	16.29	17.70
		36	18	16.38	16.40	16.21	17.70
		36	39	16.40	16.37	16.26	17.70
		75	0	16.41	16.40	16.28	17.70
	16QAM	1	0	16.53	16.61	16.50	17.70
		1	38	16.45	16.43	16.44	17.70
		1	74	16.42	16.45	16.37	17.70
		36	0	16.30	16.33	16.25	17.70
		36	18	16.31	16.24	16.20	17.70
		36	39	16.27	16.26	16.27	17.70
		75	0	16.28	16.28	16.24	17.70

	64QAM	1	0	16.47	16.46	16.29	17.70
		1	38	16.49	16.34	16.31	17.70
		1	74	16.45	16.32	16.28	17.70
		36	0	16.34	16.37	16.35	17.70
		36	18	16.46	16.44	16.30	17.70
		36	39	16.42	16.41	16.35	17.70
		75	0	16.44	16.40	16.26	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	16.30	16.31	16.16	17.70
		1	50	16.18	16.22	16.14	17.70
		1	99	16.24	16.18	16.04	17.70
		50	0	16.35	16.34	16.25	17.70
		50	25	16.36	16.36	16.18	17.70
		50	50	16.37	16.32	16.22	17.70
		100	0	16.38	16.35	16.24	17.70
	16QAM	1	0	16.50	16.57	16.45	17.70
		1	50	16.42	16.41	16.40	17.70
		1	99	16.39	16.42	16.35	17.70
		50	0	16.27	16.29	16.22	17.70
		50	25	16.28	16.22	16.17	17.70
		50	50	16.24	16.21	16.23	17.70
		100	0	16.26	16.24	16.21	17.70
	64QAM	1	0	16.45	16.42	16.24	17.70
		1	50	16.45	16.32	16.27	17.70
		1	99	16.39	16.26	16.22	17.70
		50	0	16.29	16.29	16.28	17.70
		50	25	16.42	16.40	16.24	17.70
		50	50	16.39	16.36	16.31	17.70
		100	0	16.42	16.36	16.23	17.70

9.4 CA Mode

DL Intra Band Contiguous Measured Results																			
CA configuration	CC1 UL					CC2 DL			CC3 DL			CC4 DL			Aggregated BW	MPR	CA Active (dBm)	CA Inactive (dBm)	Delta
	Modle	BW (MHz)	Channel	Fre (MHz)	RB, Offset	BW (MHz)	Channel	Fre (MHz)	BW (MHz)	Channel	Fre (MHz)	BW (MHz)	Channel	Fre (MHz)					
CA_2C	QPSK	20	18801	1870.1	1,50	20	999	1969.9	/	/	/	/	/	/	40	0	22.75	22.78	-0.03
DL Inter Band(2 Bands)Measured Results																			
CA configuration	CC1 UL					CC2 DL			CC3 DL			CC4 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
	Modle	BW (MHz)	Channel	Fre (MHz)	RB, Offset	BW (MHz)	Channel	Fre (MHz)	BW (MHz)	Channel	Fre (MHz)	BW (MHz)	Channel	Fre (MHz)					
CA_4A-5A	QPSK	20	20175	1732.5	1,0	10	2600	889	/	/	/	/	/	/	30	0	22.52	22.63	-0.11
DL Inter Band(3 Bands)Measured Results																			
CA configuration	CC1 UL					CC2 DL			CC3 DL			CC4 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
	Modle	BW (MHz)	Channel	Fre (MHz)	RB, Offset	BW (MHz)	Channel	Fre (MHz)	BW (MHz)	Channel	Fre (MHz)	BW (MHz)	Channel	Fre (MHz)					
CA_2A-4A-5A	QPSK	20	18900	1880	1,0	20	2300	21455	10	2525	881.5	/	/	/	50	0	22.77	22.78	-0.01
CA_2A-4A-7A	QPSK	20	18900	1880	1,0	20	2300	21455	20	3350	2680	/	/	/	60	0	22.78	22.78	0
CA_2A-5A-7A	QPSK	20	18900	1880	1,0	10	2525	881.5	20	3350	2680	/	/	/	50	0	22.78	22.78	0
CA_2A-5A-66A	QPSK	20	18900	1880	1,0	10	2525	881.5	20	67036	2170	/	/	/	60	0	22.75	22.78	-0.03
CA_2A-7A-7A	QPSK	20	18900	1880	1,0	20	2850	2630	20	3350	2680	/	/	/	60	0	22.62	22.78	-0.16
CA_2A-7A-66A	QPSK	20	18900	1880	1,0	20	2850	2630	20	67036	2170	/	/	/	60	0	22.73	22.78	-0.05
DL Inter Band(4 Bands)Measured Results																			
CA configuration	CC1 UL					CC2 DL			CC3 DL			CC4 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
	Modle	BW (MHz)	Channel	Fre (MHz)	RB, Offset	BW (MHz)	Channel	Fre (MHz)	BW (MHz)	Channel	Fre (MHz)	BW (MHz)	Channel	Fre (MHz)					
CA_5A-7A-66A-66A	QPSK	10	20450	829	1,0	20	3100	2655	20	66786	2145	20	67036	2170	70	0	23.06	23.11	-0.05
CA_2A-4A-7C	QPSK	20	18700	1860	1,0	20	2300	2145	20	3100	2655	20	3350	2680	80	0	22.74	22.78	-0.04

DL Inter Band(5 Bands)Measured Results																						
CA configurati on	CC1 UL					CC2 DL			CC3 DL			CC4 DL			CC5 DL			Aggregat ed BW	MP R	CA	CA	Delt a
	Modle	BW (MHz)	Channel	Fre (MHz)	RB, Offset	BW (MHz)	Chann el	Fre (MHz)	BW (MHz)	Chann el	Fre (MHz)	BW (MHz)	Chann el	Fre (MHz)	BW (MHz)	Chann el	Fre (MHz)			Inactiv e (dBm)	Active (dBm)	
CA_5A-7C -66A-66A	QPSK	10	20450	829	1,25	20	3100	2655	20	3350	2680	20	67036	2170	20	67036	2170	90	0	23.11	23.11	0

9.5 NR Mode

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power 3

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0^2
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16 QAM	≤ 2		≤ 1
DFT-s-OFDM 64 QAM		≤ 2.5	
DFT-s-OFDM 256 QAM		≤ 4.5	
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16 QAM	≤ 3		≤ 2
CP-OFDM 64 QAM		≤ 3.5	
CP-OFDM 256 QAM		≤ 6.5	
NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.			
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.			

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3⁴

Modulation ⁴	Channel bandwidth / Transmission bandwidth (N_{RB}) ⁴						MPR (dB) ⁴
	1.4 ⁴ MHz ⁴	3.0 ⁴ MHz ⁴	5 ⁴ MHz ⁴	10 ⁴ MHz ⁴	15 ⁴ MHz ⁴	20 ⁴ MHz ⁴	
QPSK ⁴	$> 5^4$	$> 4^4$	$> 8^4$	$> 12^4$	$> 16^4$	$> 18^4$	$\leq 1^4$
16 QAM ⁴	$\leq 5^4$	$\leq 4^4$	$\leq 8^4$	$\leq 12^4$	$\leq 16^4$	$\leq 18^4$	$\leq 1^4$
16 QAM ⁴	$> 5^4$	$> 4^4$	$> 8^4$	$> 12^4$	$> 16^4$	$> 18^4$	$\leq 2^4$
64 QAM ⁴	$\leq 5^4$	$\leq 4^4$	$\leq 8^4$	$\leq 12^4$	$\leq 16^4$	$\leq 18^4$	$\leq 2^4$
64 QAM ⁴	$> 5^4$	$> 4^4$	$> 8^4$	$> 12^4$	$> 16^4$	$> 18^4$	$\leq 3^4$

NR n2							
Receiver on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	23.15	23.50	23.11	25.00
		1	23	23.09	23.48	23.20	25.00
		12	6	23.20	23.56	23.29	25.00
		25	0	23.16	23.13	23.25	24.50
	DFT-s-OFDM QPSK	1	1	23.46	23.56	23.55	25.00
		1	23	23.50	23.56	23.48	25.00
		12	6	23.48	23.61	23.52	25.00
		25	0	22.48	22.59	22.49	24.00
	DFT-s-OFDM 16QAM	1	1	22.62	22.51	22.57	24.00
		1	23	22.62	22.57	22.58	24.00
		12	6	22.75	22.59	22.67	24.00
	DFT-s-OFDM 64QAM	1	1	21.05	20.90	20.99	22.50
		1	23	21.10	20.97	21.04	22.50
		12	6	21.32	21.19	21.27	22.50
	DFT-s-OFDM 256QAM	1	1	19.25	19.09	19.18	20.50
		1	23	19.32	19.11	19.24	20.50
		12	6	19.21	19.09	19.15	20.50
	CP-OFDM QPSK	1	1	22.10	21.93	22.04	23.50
	CP-OFDM 16QAM	1	1	21.74	21.57	21.70	23.00
	CP-OFDM 64QAM	1	1	20.17	20.02	20.11	21.50
	CP-OFDM 256QAM	1	1	16.60	16.60	16.60	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	23.14	23.46	23.09	25.00
		1	50	23.07	23.47	23.17	25.00
		25	12	23.17	23.51	23.25	25.00
		50	0	23.14	23.09	23.22	24.50
	DFT-s-OFDM QPSK	1	1	23.43	23.51	23.51	25.00
		1	50	23.47	23.53	23.44	25.00
		25	12	23.46	23.57	23.47	25.00
		50	0	22.46	22.57	22.47	24.00
	DFT-s-OFDM 16QAM	1	1	22.60	22.48	22.55	24.00
		1	50	22.60	22.53	22.55	24.00
		25	12	22.72	22.57	22.64	24.00

	DFT-s-OFDM 64QAM	1	1	21.02	20.85	20.95	22.50
		1	50	21.08	20.93	21.01	22.50
		25	12	21.29	21.14	21.23	22.50
	DFT-s-OFDM 256QAM	1	1	19.20	19.07	19.16	20.50
		1	50	19.30	19.08	19.22	20.50
		25	12	19.22	19.08	19.16	20.50
	CP-OFDM QPSK	1	1	22.09	21.95	22.05	23.50
	CP-OFDM 16QAM	1	1	21.72	21.54	21.69	23.00
	CP-OFDM 64QAM	1	1	20.15	19.98	20.08	21.50
	CP-OFDM 256QAM	1	1	16.57	16.55	16.56	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	23.17	23.57	23.13	25.00
		1	77	23.09	23.48	23.21	25.00
		36	18	23.23	23.58	23.33	25.00
		75	0	23.18	23.17	23.28	24.50
	DFT-s-OFDM QPSK	1	1	23.48	23.60	23.58	25.00
		1	77	23.54	23.60	23.51	25.00
		36	18	23.49	23.68	23.57	25.00
		75	0	22.49	22.62	22.54	24.00
	DFT-s-OFDM 16QAM	1	1	22.63	22.52	22.60	24.00
		1	77	22.64	22.62	22.60	24.00
		36	18	22.78	22.60	22.69	24.00
	DFT-s-OFDM 64QAM	1	1	21.09	20.93	21.03	22.50
		1	77	21.12	21.01	21.07	22.50
		36	18	21.34	21.23	21.30	22.50
	DFT-s-OFDM 256QAM	1	1	19.30	19.16	19.23	20.50
		1	77	19.35	19.16	19.27	20.50
		36	18	19.27	19.14	19.17	20.50
	CP-OFDM QPSK	1	1	22.13	21.94	22.10	23.50
	CP-OFDM 16QAM	1	1	21.78	21.60	21.74	23.00
	CP-OFDM 64QAM	1	1	20.19	20.06	20.14	21.50
	CP-OFDM 256QAM	1	1	16.62	16.64	16.63	18.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	23.11	23.42	23.06	25.00
		1	104	23.06	23.43	23.15	25.00
		50	25	23.15	23.50	23.22	25.00
		100	0	23.11	23.04	23.18	24.50
	DFT-s-OFDM QPSK	1	1	23.41	23.47	23.48	25.00
		1	104	23.44	23.48	23.40	25.00
		50	25	23.43	23.52	23.43	25.00
		100	0	22.43	22.53	22.42	24.00
	DFT-s-OFDM 16QAM	1	1	22.57	22.46	22.51	24.00
		1	104	22.57	22.50	22.53	24.00
		50	25	22.69	22.53	22.61	24.00
	DFT-s-OFDM 64QAM	1	1	20.99	20.83	20.92	22.50
		1	104	21.05	20.88	20.97	22.50
		50	25	21.27	21.10	21.20	22.50
	DFT-s-OFDM 256QAM	1	1	19.18	19.03	19.11	20.50
		1	104	19.26	19.06	19.18	20.50
		50	25	19.16	19.02	19.10	20.50
	CP-OFDM QPSK	1	1	22.04	21.87	21.98	23.50
	CP-OFDM 16QAM	1	1	21.68	21.50	21.63	23.00
	CP-OFDM 64QAM	1	1	20.12	19.93	20.04	21.50
	CP-OFDM 256QAM	1	1	16.55	16.51	16.53	18.50

NR n2							
Receiver off-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.33	22.47	22.50	23.30
		1	23	22.33	22.40	22.44	23.30
		12	6	22.48	22.39	22.48	23.30
		25	0	22.35	22.44	22.49	23.30
	DFT-s-OFDM QPSK	1	1	22.25	22.33	22.34	23.30
		1	23	22.30	22.33	22.30	23.30
		12	6	22.16	22.43	22.32	23.30
		25	0	22.19	22.39	22.28	23.30
	DFT-s-OFDM 16QAM	1	1	22.30	22.26	22.42	23.30
		1	23	22.44	22.42	22.48	23.30
		12	6	22.46	22.38	22.53	23.30

	DFT-s-OFDM 64QAM	1	1	20.83	20.77	20.89	22.50
		1	23	20.86	20.82	20.96	22.50
		12	6	21.16	21.13	21.29	22.50
	DFT-s-OFDM 256QAM	1	1	19.17	19.09	19.25	20.50
		1	23	19.23	19.12	19.30	20.50
		12	6	20.01	19.97	20.05	20.50
	CP-OFDM QPSK	1	1	21.89	21.83	21.96	23.30
	CP-OFDM 16QAM	1	1	21.53	21.49	21.59	23.00
	CP-OFDM 64QAM	1	1	20.03	19.99	20.13	21.50
	CP-OFDM 256QAM	1	1	16.32	16.29	16.52	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	22.30	22.45	22.46	23.30
		1	50	22.31	22.36	22.41	23.30
		25	12	22.45	22.34	22.44	23.30
		50	0	22.32	22.39	22.45	23.30
	DFT-s-OFDM QPSK	1	1	22.23	22.29	22.29	23.30
		1	50	22.28	22.31	22.26	23.30
		25	12	22.16	22.42	22.30	23.30
		50	0	22.19	22.35	22.25	23.30
	DFT-s-OFDM 16QAM	1	1	22.30	22.24	22.39	23.30
		1	50	22.41	22.40	22.44	23.30
		25	12	22.44	22.34	22.50	23.30
	DFT-s-OFDM 64QAM	1	1	20.80	20.72	20.85	22.50
		1	50	20.83	20.77	20.92	22.50
		25	12	21.14	21.09	21.24	22.50
	DFT-s-OFDM 256QAM	1	1	19.14	19.09	19.22	20.50
		1	50	19.20	19.14	19.27	20.50
		25	12	20.02	19.95	20.01	20.50
	CP-OFDM QPSK	1	1	21.87	21.79	21.97	23.30
	CP-OFDM 16QAM	1	1	21.50	21.44	21.55	23.00
	CP-OFDM 64QAM	1	1	20.00	19.94	20.09	21.50
	CP-OFDM 256QAM	1	1	16.30	16.40	16.55	18.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.32	22.46	22.49	23.30
		1	77	22.34	22.41	22.45	23.30
		36	18	22.47	22.38	22.47	23.30
		75	0	22.35	22.44	22.49	23.30
	DFT-s-OFDM QPSK	1	1	22.26	22.34	22.33	23.30
		1	77	22.30	22.35	22.31	23.30
		36	18	22.20	22.44	22.34	23.30
		75	0	22.23	22.38	22.27	23.30
	DFT-s-OFDM 16QAM	1	1	22.34	22.28	22.42	23.30
		1	77	22.44	22.42	22.47	23.30
		36	18	22.47	22.39	22.54	23.30
	DFT-s-OFDM 64QAM	1	1	20.82	20.76	20.88	22.50
		1	77	20.86	20.82	20.96	22.50
		36	18	21.17	21.14	21.28	22.50
	DFT-s-OFDM 256QAM	1	1	19.16	19.08	19.24	20.50
		1	77	19.23	19.14	19.30	20.50
		36	18	20.01	19.97	20.04	20.50
	CP-OFDM QPSK	1	1	21.90	21.84	21.97	23.30
	CP-OFDM 16QAM	1	1	21.52	21.48	21.58	23.00
	CP-OFDM 64QAM	1	1	20.03	19.99	20.13	21.50
	CP-OFDM 256QAM	1	1	16.48	16.30	16.51	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	22.28	22.38	22.44	23.30
		1	104	22.31	22.36	22.40	23.30
		50	25	22.42	22.32	22.40	23.30
		100	0	22.30	22.35	22.42	23.30
	DFT-s-OFDM QPSK	1	1	22.21	22.25	22.26	23.30
		1	104	22.24	22.27	22.23	23.30
		50	25	22.15	22.35	22.25	23.30
		100	0	22.18	22.32	22.20	23.30
	DFT-s-OFDM 16QAM	1	1	22.29	22.23	22.36	23.30
		1	104	22.39	22.35	22.42	23.30
		50	25	22.41	22.33	22.48	23.30
	DFT-s-OFDM 64QAM	1	1	20.76	20.69	20.81	22.50
		1	104	20.81	20.73	20.89	22.50
		50	25	21.12	21.05	21.21	22.50

	DFT-s-OFDM 256QAM	1	1	19.09	19.02	19.17	20.50
		1	104	19.17	19.09	19.24	20.50
		50	25	19.96	19.90	19.99	20.50
	CP-OFDM QPSK	1	1	21.84	21.78	21.91	23.30
	CP-OFDM 16QAM	1	1	21.46	21.41	21.51	23.00
	CP-OFDM 64QAM	1	1	19.98	19.90	20.06	21.50
	CP-OFDM 256QAM	1	1	16.28	16.21	16.44	18.50

NR n2							
Hotspot on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	21.92	21.91	21.97	22.80
		1	23	21.87	21.83	21.92	22.80
		12	6	21.96	21.87	22.03	22.80
		25	0	21.95	21.90	21.97	22.80
	DFT-s-OFDM QPSK	1	1	21.78	21.82	21.75	22.80
		1	23	21.85	21.81	21.69	22.80
		12	6	21.71	21.89	21.78	22.80
		25	0	21.74	21.86	21.83	22.80
	DFT-s-OFDM 16QAM	1	1	21.90	21.76	21.84	22.80
		1	23	21.97	21.90	21.91	22.80
		12	6	22.05	21.89	21.98	22.80
	DFT-s-OFDM 64QAM	1	1	20.86	20.73	20.81	22.50
		1	23	20.91	20.77	20.84	22.50
		12	6	21.22	21.10	21.16	22.50
	DFT-s-OFDM 256QAM	1	1	19.22	19.09	19.14	20.50
		1	23	19.27	19.13	19.19	20.50
		12	6	19.20	19.07	19.10	20.50
	CP-OFDM QPSK	1	1	21.75	21.61	21.72	22.80
	CP-OFDM 16QAM	1	1	21.56	21.45	21.51	22.80
	CP-OFDM 64QAM	1	1	20.08	19.94	20.01	21.50
	CP-OFDM 256QAM	1	1	16.51	16.27	16.55	18.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	21.94	21.92	22.00	22.80
		1	50	21.90	21.88	21.96	22.80
		25	12	21.98	21.91	22.06	22.80
		50	0	21.98	21.95	22.01	22.80
	DFT-s-OFDM QPSK	1	1	21.81	21.87	21.79	22.80
		1	50	21.87	21.85	21.74	22.80
		25	12	21.75	21.91	21.82	22.80
		50	0	21.78	21.89	21.85	22.80
	DFT-s-OFDM 16QAM	1	1	21.94	21.80	21.87	22.80
		1	50	22.00	21.92	21.94	22.80
		25	12	22.08	21.94	22.02	22.80
	DFT-s-OFDM 64QAM	1	1	20.88	20.77	20.84	22.50
		1	50	20.94	20.82	20.88	22.50
		25	12	21.25	21.15	21.20	22.50
	DFT-s-OFDM 256QAM	1	1	19.24	19.08	19.16	20.50
		1	50	19.30	19.13	19.22	20.50
		25	12	19.19	19.09	19.13	20.50
	CP-OFDM QPSK	1	1	21.78	21.66	21.72	22.80
	CP-OFDM 16QAM	1	1	21.58	21.49	21.54	22.80
	CP-OFDM 64QAM	1	1	20.11	19.99	20.05	21.50
	CP-OFDM 256QAM	1	1	16.54	16.44	16.37	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	21.93	21.88	21.98	22.80
		1	77	21.88	21.87	21.93	22.80
		36	18	21.95	21.86	22.02	22.80
		75	0	21.96	21.91	21.98	22.80
	DFT-s-OFDM QPSK	1	1	21.78	21.82	21.75	22.80
		1	77	21.84	21.82	21.70	22.80
		36	18	21.73	21.87	21.77	22.80
		75	0	21.76	21.87	21.83	22.80
	DFT-s-OFDM 16QAM	1	1	21.92	21.77	21.85	22.80
		1	77	21.98	21.88	21.91	22.80
		36	18	22.05	21.92	21.99	22.80
	DFT-s-OFDM 64QAM	1	1	20.85	20.72	20.80	22.50
		1	77	20.92	20.78	20.85	22.50
		36	18	21.22	21.10	21.16	22.50

	DFT-s-OFDM 256QAM	1	1	19.19	19.06	19.14	20.50
		1	77	19.28	19.10	19.20	20.50
		36	18	19.20	19.08	19.14	20.50
	CP-OFDM QPSK	1	1	21.77	21.68	21.73	22.80
	CP-OFDM 16QAM	1	1	21.56	21.46	21.53	22.80
	CP-OFDM 64QAM	1	1	20.09	19.95	20.02	21.50
	CP-OFDM 256QAM	1	1	16.51	16.27	16.33	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	21.90	21.84	21.95	22.80
		1	104	21.87	21.83	21.91	22.80
		50	25	21.93	21.85	21.99	22.80
		100	0	21.93	21.86	21.94	22.80
	DFT-s-OFDM QPSK	1	1	21.76	21.78	21.72	22.80
		1	104	21.81	21.77	21.66	22.80
		50	25	21.70	21.82	21.73	22.80
		100	0	21.73	21.83	21.78	22.80
	DFT-s-OFDM 16QAM	1	1	21.89	21.75	21.81	22.80
		1	104	21.95	21.85	21.89	22.80
		50	25	22.02	21.88	21.96	22.80
	DFT-s-OFDM 64QAM	1	1	20.82	20.70	20.77	22.50
		1	104	20.89	20.73	20.81	22.50
		50	25	21.20	21.06	21.13	22.50
	DFT-s-OFDM 256QAM	1	1	19.17	19.02	19.09	20.50
		1	104	19.24	19.08	19.16	20.50
		50	25	19.14	19.02	19.08	20.50
	CP-OFDM QPSK	1	1	21.72	21.60	21.66	22.80
	CP-OFDM 16QAM	1	1	21.52	21.42	21.47	22.80
	CP-OFDM 64QAM	1	1	20.06	19.90	19.98	21.50
	CP-OFDM 256QAM	1	1	16.49	16.23	16.30	18.50

NR n2							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	14.67	14.77	14.70	15.90
		1	23	14.66	14.62	14.61	15.90
		12	6	14.73	14.74	14.66	15.90
		25	0	14.62	14.74	14.58	15.90
	DFT-s-OFDM QPSK	1	1	14.78	14.71	14.69	15.90
		1	23	14.75	14.66	14.67	15.90
		12	6	14.79	14.76	14.66	15.90
		25	0	14.82	14.70	14.70	15.90
	DFT-s-OFDM 16QAM	1	1	14.90	14.81	15.01	15.90
		1	23	14.82	14.81	14.99	15.90
		12	6	14.78	14.69	14.76	15.90
	DFT-s-OFDM 64QAM	1	1	14.71	14.61	14.65	15.90
		1	23	14.66	14.60	14.87	15.90
		12	6	14.79	14.75	14.71	15.90
	DFT-s-OFDM 256QAM	1	1	15.09	15.00	14.71	15.90
		1	23	15.04	15.00	14.98	15.90
		12	6	14.88	14.73	14.87	15.90
	CP-OFDM QPSK	1	1	14.71	14.57	14.88	15.90
	CP-OFDM 16QAM	1	1	14.96	14.83	14.77	15.90
	CP-OFDM 64QAM	1	1	14.77	14.66	14.74	15.90
	CP-OFDM 256QAM	1	1	14.75	14.69	14.89	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	14.69	14.78	14.73	15.90
		1	50	14.69	14.67	14.65	15.90
		25	12	14.75	14.78	14.69	15.90
		50	0	14.65	14.79	14.62	15.90
	DFT-s-OFDM QPSK	1	1	14.81	14.76	14.73	15.90
		1	50	14.77	14.70	14.72	15.90
		25	12	14.83	14.78	14.70	15.90
		50	0	14.86	14.73	14.72	15.90
	DFT-s-OFDM 16QAM	1	1	14.94	14.85	15.04	15.90
		1	50	14.85	14.83	15.02	15.90
		25	12	14.81	14.74	14.80	15.90
	DFT-s-OFDM	1	1	14.73	14.65	14.68	15.90

	64QAM	1	50	14.69	14.65	14.91	15.90
		25	12	14.82	14.80	14.75	15.90
	DFT-s-OFDM 256QAM	1	1	15.11	14.99	14.73	15.90
		1	50	15.07	15.00	15.01	15.90
		25	12	14.87	14.75	14.90	15.90
	CP-OFDM QPSK	1	1	14.74	14.62	14.88	15.90
	CP-OFDM 16QAM	1	1	14.98	14.87	14.80	15.90
	CP-OFDM 64QAM	1	1	14.80	14.71	14.78	15.90
	CP-OFDM 256QAM	1	1	14.78	14.74	14.93	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	14.68	14.74	14.71	15.90
		1	77	14.67	14.66	14.62	15.90
		36	18	14.72	14.73	14.65	15.90
		75	0	14.63	14.75	14.59	15.90
	DFT-s-OFDM QPSK	1	1	14.78	14.71	14.69	15.90
		1	77	14.74	14.67	14.68	15.90
		36	18	14.81	14.74	14.65	15.90
		75	0	14.84	14.71	14.70	15.90
	DFT-s-OFDM 16QAM	1	1	14.92	14.82	15.02	15.90
		1	77	14.83	14.79	14.99	15.90
		36	18	14.78	14.72	14.77	15.90
	DFT-s-OFDM 64QAM	1	1	14.70	14.60	14.64	15.90
		1	77	14.67	14.61	14.88	15.90
		36	18	14.79	14.75	14.71	15.90
	DFT-s-OFDM 256QAM	1	1	15.06	14.97	14.71	15.90
		1	77	15.05	14.97	14.99	15.90
		36	18	14.88	14.74	14.91	15.90
	CP-OFDM QPSK	1	1	14.73	14.64	14.89	15.90
	CP-OFDM 16QAM	1	1	14.96	14.84	14.79	15.90
	CP-OFDM 64QAM	1	1	14.78	14.67	14.75	15.90
	CP-OFDM 256QAM	1	1	14.75	14.69	14.89	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM	1	1	14.65	14.70	14.68	15.90

	BPSK	1	104	14.66	14.62	14.60	15.90
		50	25	14.70	14.72	14.62	15.90
		100	0	14.60	14.70	14.55	15.90
	DFT-s-OFDM QPSK	1	1	14.76	14.67	14.66	15.90
		1	104	14.71	14.62	14.64	15.90
		50	25	14.78	14.69	14.61	15.90
		100	0	14.81	14.67	14.65	15.90
	DFT-s-OFDM 16QAM	1	1	14.89	14.80	14.98	15.90
		1	104	14.80	14.76	14.97	15.90
		50	25	14.75	14.68	14.74	15.90
	DFT-s-OFDM 64QAM	1	1	14.67	14.58	14.61	15.90
		1	104	14.64	14.56	14.84	15.90
		50	25	14.77	14.71	14.68	15.90
	DFT-s-OFDM 256QAM	1	1	15.04	14.93	14.66	15.90
		1	104	15.01	14.95	14.95	15.90
		50	25	14.82	14.68	14.85	15.90
	CP-OFDM QPSK	1	1	14.68	14.56	14.82	15.90
	CP-OFDM 16QAM	1	1	14.92	14.80	14.73	15.90
	CP-OFDM 64QAM	1	1	14.75	14.62	14.71	15.90
	CP-OFDM 256QAM	1	1	14.73	14.65	14.86	15.90

NR n2							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	19.85	19.83	19.84	20.70
		1	23	19.83	19.78	19.83	20.70
		12	6	19.99	19.85	19.95	20.70
		25	0	19.91	19.81	19.87	20.70
	DFT-s-OFDM QPSK	1	1	19.87	19.72	19.73	20.70
		1	23	19.86	19.76	19.77	20.70
		12	6	19.74	19.87	19.71	20.70
		25	0	19.72	19.82	19.80	20.70
	DFT-s-OFDM 16QAM	1	1	19.37	19.44	19.52	20.70
		1	23	19.44	19.47	19.48	20.70
		12	6	19.84	19.84	19.93	20.70
	DFT-s-OFDM 64QAM	1	1	19.69	19.72	19.80	20.70
		1	23	19.74	19.80	19.87	20.70
		12	6	19.81	19.87	19.93	20.70

	DFT-s-OFDM 256QAM	1	1	18.35	18.44	18.49	19.50
		1	23	18.36	18.41	18.47	19.50
		12	6	18.18	18.18	18.21	19.50
	CP-OFDM QPSK	1	1	19.69	19.72	19.83	20.70
	CP-OFDM 16QAM	1	1	19.96	19.96	20.02	20.70
	CP-OFDM 64QAM	1	1	19.13	19.18	19.25	20.50
	CP-OFDM 256QAM	1	1	15.73	15.79	15.85	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	19.87	19.84	19.87	20.70
		1	50	19.86	19.83	19.87	20.70
		25	12	20.01	19.89	19.98	20.70
		50	0	19.94	19.86	19.91	20.70
	DFT-s-OFDM QPSK	1	1	19.90	19.77	19.77	20.70
		1	50	19.88	19.80	19.82	20.70
		25	12	19.78	19.89	19.75	20.70
		50	0	19.76	19.85	19.82	20.70
	DFT-s-OFDM 16QAM	1	1	19.41	19.48	19.55	20.70
		1	50	19.47	19.49	19.51	20.70
		25	12	19.87	19.89	19.97	20.70
	DFT-s-OFDM 64QAM	1	1	19.71	19.76	19.83	20.70
		1	50	19.77	19.85	19.91	20.70
		25	12	19.84	19.92	19.97	20.70
	DFT-s-OFDM 256QAM	1	1	18.37	18.43	18.51	19.50
		1	50	18.39	18.41	18.50	19.50
		25	12	18.17	18.20	18.24	19.50
	CP-OFDM QPSK	1	1	19.72	19.77	19.83	20.70
	CP-OFDM 16QAM	1	1	19.98	20.00	20.05	20.70
	CP-OFDM 64QAM	1	1	19.16	19.23	19.29	20.50
	CP-OFDM 256QAM	1	1	15.76	15.84	15.89	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	19.86	19.80	19.85	20.70
		1	77	19.84	19.82	19.84	20.70
		36	18	19.98	19.84	19.94	20.70

		75	0	19.92	19.82	19.88	20.70
	DFT-s-OFDM QPSK	1	1	19.87	19.72	19.73	20.70
		1	77	19.85	19.77	19.78	20.70
		36	18	19.76	19.85	19.70	20.70
		75	0	19.74	19.83	19.80	20.70
	DFT-s-OFDM 16QAM	1	1	19.39	19.45	19.53	20.70
		1	77	19.45	19.45	19.48	20.70
		36	18	19.84	19.87	19.94	20.70
	DFT-s-OFDM 64QAM	1	1	19.68	19.71	19.79	20.70
		1	77	19.75	19.81	19.88	20.70
		36	18	19.81	19.87	19.93	20.70
	DFT-s-OFDM 256QAM	1	1	18.32	18.41	18.49	19.50
		1	77	18.37	18.38	18.48	19.50
		36	18	18.18	18.19	18.25	19.50
	CP-OFDM QPSK	1	1	19.71	19.79	19.84	20.70
	CP-OFDM 16QAM	1	1	19.96	19.97	20.04	20.70
	CP-OFDM 64QAM	1	1	19.14	19.19	19.26	20.50
	CP-OFDM 256QAM	1	1	15.73	15.79	15.85	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	19.83	19.76	19.82	20.70
		1	104	19.83	19.78	19.82	20.70
		50	25	19.96	19.83	19.91	20.70
		100	0	19.89	19.77	19.84	20.70
	DFT-s-OFDM QPSK	1	1	19.85	19.68	19.70	20.70
		1	104	19.82	19.72	19.74	20.70
		50	25	19.73	19.80	19.66	20.70
		100	0	19.71	19.79	19.75	20.70
	DFT-s-OFDM 16QAM	1	1	19.36	19.43	19.49	20.70
		1	104	19.42	19.42	19.46	20.70
		50	25	19.81	19.83	19.91	20.70
	DFT-s-OFDM 64QAM	1	1	19.65	19.69	19.76	20.70
		1	104	19.72	19.76	19.84	20.70
		50	25	19.79	19.83	19.90	20.70
	DFT-s-OFDM 256QAM	1	1	18.30	18.37	18.44	19.50
		1	104	18.33	18.36	18.44	19.50
		50	25	18.12	18.13	18.19	19.50
	CP-OFDM QPSK	1	1	19.66	19.71	19.77	20.70

	CP-OFDM 16QAM	1	1	19.92	19.93	19.98	20.70
	CP-OFDM 64QAM	1	1	19.11	19.14	19.22	20.50
	CP-OFDM 256QAM	1	1	15.71	15.75	15.82	17.50

NR n2							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376000/1880	381500/1907.5	
5MHz	DFT-s-OFDM BPSK	1	1	13.94	13.92	14.03	14.90
		1	23	13.76	13.78	13.85	14.90
		12	6	13.88	13.81	13.97	14.90
		25	0	13.87	13.88	13.95	14.90
	DFT-s-OFDM QPSK	1	1	14.00	13.85	13.77	14.90
		1	23	13.99	13.79	13.78	14.90
		12	6	13.85	13.87	13.78	14.90
		25	0	13.87	13.83	13.83	14.90
	DFT-s-OFDM 16QAM	1	1	13.52	13.46	13.52	14.90
		1	23	13.49	13.46	13.45	14.90
		12	6	13.94	13.85	13.86	14.90
	DFT-s-OFDM 64QAM	1	1	13.87	13.77	13.81	14.90
		1	23	13.81	13.75	13.76	14.90
		12	6	13.89	13.86	13.87	14.90
	DFT-s-OFDM 256QAM	1	1	14.15	14.07	14.11	14.90
		1	23	14.21	14.03	14.13	14.90
		12	6	13.94	13.87	13.89	14.90
	CP-OFDM QPSK	1	1	13.92	13.83	13.88	14.90
	CP-OFDM 16QAM	1	1	14.11	14.04	14.09	14.90
	CP-OFDM 64QAM	1	1	14.13	14.07	14.08	14.90
	CP-OFDM 256QAM	1	1	13.82	13.79	13.80	14.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	13.96	13.97	14.06	14.90
		1	50	13.77	13.78	13.87	14.90
		25	12	13.92	13.87	14.02	14.90
		50	0	13.89	13.92	13.98	14.90
	DFT-s-OFDM	1	1	14.02	13.89	13.82	14.90

	QPSK	1	50	14.02	13.80	13.81	14.90
		25	12	13.83	13.90	13.81	14.90
		50	0	13.85	13.86	13.86	14.90
	DFT-s-OFDM 16QAM	1	1	13.50	13.47	13.54	14.90
		1	50	13.51	13.50	13.49	14.90
		25	12	13.96	13.86	13.88	14.90
	DFT-s-OFDM 64QAM	1	1	13.91	13.83	13.86	14.90
		1	50	13.83	13.79	13.79	14.90
		25	12	13.91	13.90	13.92	14.90
	DFT-s-OFDM 256QAM	1	1	14.21	14.10	14.14	14.90
		1	50	14.23	14.04	14.15	14.90
		25	12	13.93	13.88	13.89	14.90
	CP-OFDM QPSK	1	1	13.92	13.80	13.86	14.90
	CP-OFDM 16QAM	1	1	14.14	14.08	14.11	14.90
	CP-OFDM 64QAM	1	1	14.15	14.11	14.11	14.90
	CP-OFDM 256QAM	1	1	13.84	13.83	13.85	14.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376000/1880	380500/1902.5	
15MHz	DFT-s-OFDM BPSK	1	1	13.91	13.88	14.00	14.90
		1	77	13.75	13.74	13.83	14.90
		36	18	13.86	13.80	13.94	14.90
		75	0	13.84	13.83	13.91	14.90
	DFT-s-OFDM QPSK	1	1	13.98	13.81	13.74	14.90
		1	77	13.96	13.74	13.74	14.90
		36	18	13.82	13.82	13.74	14.90
		75	0	13.84	13.79	13.78	14.90
	DFT-s-OFDM 16QAM	1	1	13.49	13.44	13.48	14.90
		1	77	13.46	13.43	13.43	14.90
		36	18	13.91	13.81	13.83	14.90
	DFT-s-OFDM 64QAM	1	1	13.84	13.75	13.78	14.90
		1	77	13.78	13.70	13.72	14.90
		36	18	13.87	13.82	13.84	14.90
	DFT-s-OFDM 256QAM	1	1	14.13	14.03	14.06	14.90
		1	77	14.17	14.01	14.09	14.90
		36	18	13.88	13.81	13.83	14.90
	CP-OFDM QPSK	1	1	13.87	13.75	13.81	14.90
	CP-OFDM 16QAM	1	1	14.07	14.00	14.03	14.90

	CP-OFDM 64QAM	1	1	14.10	14.02	14.04	14.90
	CP-OFDM 256QAM	1	1	13.80	13.75	13.77	14.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	13.86	13.79	13.94	14.90
		1	104	13.73	13.70	13.79	14.90
		50	25	13.80	13.73	13.86	14.90
		100	0	13.79	13.74	13.84	14.90
	DFT-s-OFDM QPSK	1	1	13.94	13.73	13.66	14.90
		1	104	13.90	13.68	13.67	14.90
		50	25	13.81	13.74	13.67	14.90
		100	0	13.83	13.72	13.70	14.90
	DFT-s-OFDM 16QAM	1	1	13.48	13.41	13.42	14.90
		1	104	13.41	13.36	13.37	14.90
		50	25	13.86	13.76	13.78	14.90
	DFT-s-OFDM 64QAM	1	1	13.77	13.67	13.70	14.90
		1	104	13.73	13.61	13.65	14.90
		50	25	13.83	13.74	13.76	14.90
	DFT-s-OFDM 256QAM	1	1	14.05	13.96	13.98	14.90
		1	104	14.11	13.98	14.03	14.90
		50	25	13.83	13.74	13.77	14.90
	CP-OFDM QPSK	1	1	13.82	13.70	13.76	14.90
	CP-OFDM 16QAM	1	1	14.00	13.92	13.95	14.90
	CP-OFDM 64QAM	1	1	14.05	13.93	13.97	14.90
	CP-OFDM 256QAM	1	1	13.76	13.67	13.69	14.90

NR n7							
Receiver on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.84	22.97	22.94	24.00
		1	23	22.93	22.83	22.69	24.00
		12	6	22.93	22.90	22.59	24.00
		25	0	22.48	22.43	22.36	23.50
	DFT-s-OFDM QPSK	1	1	22.72	23.00	22.89	24.00
		1	23	22.81	22.99	22.81	24.00
		12	6	22.76	22.95	22.73	24.00

		25	0	21.81	21.90	21.75	23.00
	DFT-s-OFDM 16QAM	1	1	22.27	22.24	22.35	23.00
		1	23	22.33	22.35	22.37	23.00
		12	6	21.97	21.93	22.04	23.00
	DFT-s-OFDM 64QAM	1	1	20.35	20.31	20.42	21.50
		1	23	20.37	20.37	20.46	21.50
		12	6	20.41	20.40	20.49	21.50
	DFT-s-OFDM 256QAM	1	1	18.47	18.46	18.54	19.50
		1	23	18.48	18.47	18.56	19.50
		12	6	18.54	18.50	18.56	19.50
	CP-OFDM QPSK	1	1	21.36	21.31	21.45	22.50
	CP-OFDM 16QAM	1	1	20.73	20.69	20.78	22.00
	CP-OFDM 64QAM	1	1	19.56	19.55	19.65	20.50
	CP-OFDM 256QAM	1	1	15.85	15.84	15.93	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	22.86	22.98	22.97	24.00
		1	50	22.96	22.88	22.73	24.00
		25	12	22.95	22.94	22.62	24.00
		50	0	22.51	22.48	22.40	23.50
	DFT-s-OFDM QPSK	1	1	22.75	23.05	22.93	24.00
		1	50	22.83	23.03	22.86	24.00
		25	12	22.80	22.97	22.77	24.00
		50	0	21.85	21.93	21.77	23.00
	DFT-s-OFDM 16QAM	1	1	22.31	22.28	22.38	23.00
		1	50	22.36	22.37	22.40	23.00
		25	12	22.00	21.98	22.08	23.00
	DFT-s-OFDM 64QAM	1	1	20.37	20.35	20.45	21.50
		1	50	20.40	20.42	20.50	21.50
		25	12	20.44	20.45	20.53	21.50
	DFT-s-OFDM 256QAM	1	1	18.49	18.45	18.56	19.50
		1	50	18.51	18.47	18.59	19.50
		25	12	18.53	18.52	18.59	19.50
	CP-OFDM QPSK	1	1	21.39	21.36	21.45	22.50
	CP-OFDM 16QAM	1	1	20.75	20.73	20.81	22.00
	CP-OFDM 64QAM	1	1	19.59	19.60	19.69	20.50

	CP-OFDM 256QAM	1	1	15.88	15.89	15.97	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501500/2507.5	507000/2535	512500/2562.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.85	22.94	22.95	24.00
		1	77	22.94	22.87	22.70	24.00
		36	18	22.92	22.89	22.58	24.00
		75	0	22.49	22.44	22.37	23.50
	DFT-s-OFDM QPSK	1	1	22.72	23.00	22.89	24.00
		1	77	22.80	23.00	22.82	24.00
		36	18	22.78	22.93	22.72	24.00
		75	0	21.83	21.91	21.75	23.00
	DFT-s-OFDM 16QAM	1	1	22.29	22.25	22.36	23.00
		1	77	22.34	22.33	22.37	23.00
		36	18	21.97	21.96	22.05	23.00
	DFT-s-OFDM 64QAM	1	1	20.34	20.30	20.41	21.50
		1	77	20.38	20.38	20.47	21.50
		36	18	20.41	20.40	20.49	21.50
	DFT-s-OFDM 256QAM	1	1	18.44	18.43	18.54	19.50
		1	77	18.49	18.44	18.57	19.50
		36	18	18.54	18.51	18.60	19.50
	CP-OFDM QPSK	1	1	21.38	21.38	21.46	22.50
	CP-OFDM 16QAM	1	1	20.73	20.70	20.80	22.00
	CP-OFDM 64QAM	1	1	19.57	19.56	19.66	20.50
	CP-OFDM 256QAM	1	1	15.85	15.84	15.93	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	22.82	22.90	22.92	24.00
		1	104	22.93	22.83	22.68	24.00
		50	25	22.90	22.88	22.55	24.00
		100	0	22.46	22.39	22.33	23.50
	DFT-s-OFDM QPSK	1	1	22.70	22.96	22.86	24.00
		1	104	22.77	22.95	22.78	24.00
		50	25	22.75	22.88	22.68	24.00
		100	0	21.80	21.87	21.70	23.00
	DFT-s-OFDM 16QAM	1	1	22.26	22.23	22.32	23.00
		1	104	22.31	22.30	22.35	23.00
		50	25	21.94	21.92	22.02	23.00
	DFT-s-OFDM	1	1	20.31	20.28	20.38	21.50

	64QAM	1	104	20.35	20.33	20.43	21.50
		50	25	20.39	20.36	20.46	21.50
	DFT-s-OFDM 256QAM	1	1	18.42	18.39	18.49	19.50
		1	104	18.45	18.42	18.53	19.50
		50	25	18.48	18.45	18.54	19.50
	CP-OFDM QPSK	1	1	21.33	21.30	21.39	22.50
	CP-OFDM 16QAM	1	1	20.69	20.66	20.74	22.00
	CP-OFDM 64QAM	1	1	19.54	19.51	19.62	20.50
	CP-OFDM 256QAM	1	1	15.83	15.80	15.90	17.50

NR n7							
Receiver off-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5MHz	DFT-s-OFDM BPSK	1	1	19.63	19.76	19.75	20.80
		1	23	19.54	19.67	19.70	20.80
		12	6	19.82	19.70	19.84	20.80
		25	0	19.92	19.81	19.91	20.80
	DFT-s-OFDM QPSK	1	1	19.58	19.75	19.54	20.80
		1	23	19.71	19.76	19.52	20.80
		12	6	19.56	19.77	19.59	20.80
		25	0	19.63	19.73	19.58	20.80
	DFT-s-OFDM 16QAM	1	1	19.73	19.66	19.82	20.80
		1	23	19.76	19.74	19.76	20.80
		12	6	19.79	19.74	19.81	20.80
	DFT-s-OFDM 64QAM	1	1	19.78	19.74	19.84	20.80
		1	23	19.88	19.89	19.96	20.80
		12	6	19.81	19.82	19.89	20.80
	DFT-s-OFDM 256QAM	1	1	18.72	18.63	18.79	19.50
		1	23	18.79	18.70	18.82	19.50
		12	6	18.56	18.54	18.57	19.50
	CP-OFDM QPSK	1	1	19.57	19.52	19.62	20.80
	CP-OFDM 16QAM	1	1	19.61	19.57	19.64	20.80
	CP-OFDM 64QAM	1	1	19.56	19.57	19.63	20.50
	CP-OFDM 256QAM	1	1	15.92	15.93	16.00	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	19.62	19.72	19.73	20.80
		1	50	19.52	19.66	19.67	20.80
		25	12	19.79	19.65	19.80	20.80
		50	0	19.90	19.77	19.88	20.80
	DFT-s-OFDM QPSK	1	1	19.55	19.70	19.50	20.80
		1	50	19.68	19.73	19.48	20.80
		25	12	19.54	19.73	19.54	20.80
		50	0	19.61	19.71	19.56	20.80
	DFT-s-OFDM 16QAM	1	1	19.71	19.63	19.80	20.80
		1	50	19.74	19.70	19.73	20.80
		25	12	19.76	19.72	19.78	20.80
	DFT-s-OFDM 64QAM	1	1	19.75	19.69	19.80	20.80
		1	50	19.86	19.85	19.93	20.80
		25	12	19.78	19.77	19.85	20.80
	DFT-s-OFDM 256QAM	1	1	18.67	18.61	18.77	19.50
		1	50	18.77	18.67	18.80	19.50
		25	12	18.57	18.53	18.58	19.50
	CP-OFDM QPSK	1	1	19.56	19.54	19.63	20.80
	CP-OFDM 16QAM	1	1	19.59	19.54	19.63	20.80
	CP-OFDM 64QAM	1	1	19.54	19.53	19.60	20.50
	CP-OFDM 256QAM	1	1	15.89	15.88	15.96	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501500/2507.5	507000/2535	512500/2562.5	
15MHz	DFT-s-OFDM BPSK	1	1	19.59	19.68	19.70	20.80
		1	77	19.51	19.62	19.65	20.80
		36	18	19.77	19.64	19.77	20.80
		75	0	19.87	19.72	19.84	20.80
	DFT-s-OFDM QPSK	1	1	19.53	19.66	19.47	20.80
		1	77	19.65	19.68	19.44	20.80
		36	18	19.51	19.68	19.50	20.80
		75	0	19.58	19.67	19.51	20.80
	DFT-s-OFDM 16QAM	1	1	19.68	19.61	19.76	20.80
		1	77	19.71	19.67	19.71	20.80
		36	18	19.73	19.68	19.75	20.80
	DFT-s-OFDM 64QAM	1	1	19.72	19.67	19.77	20.80
		1	77	19.83	19.80	19.89	20.80
		36	18	19.76	19.73	19.82	20.80

	DFT-s-OFDM 256QAM	1	1	18.65	18.57	18.72	19.50
		1	77	18.73	18.65	18.76	19.50
		36	18	18.51	18.47	18.52	19.50
	CP-OFDM QPSK	1	1	19.51	19.46	19.56	20.80
	CP-OFDM 16QAM	1	1	19.55	19.50	19.57	20.80
	CP-OFDM 64QAM	1	1	19.51	19.48	19.56	20.50
	CP-OFDM 256QAM	1	1	15.87	15.84	15.93	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	19.55	19.60	19.65	20.80
		1	104	19.48	19.57	19.60	20.80
		50	25	19.72	19.58	19.70	20.80
		100	0	19.82	19.63	19.77	20.80
	DFT-s-OFDM QPSK	1	1	19.48	19.57	19.40	20.80
		1	104	19.59	19.60	19.36	20.80
		50	25	19.46	19.59	19.41	20.80
		100	0	19.53	19.61	19.44	20.80
	DFT-s-OFDM 16QAM	1	1	19.63	19.56	19.70	20.80
		1	104	19.66	19.60	19.66	20.80
		50	25	19.67	19.62	19.69	20.80
	DFT-s-OFDM 64QAM	1	1	19.66	19.60	19.70	20.80
		1	104	19.78	19.71	19.82	20.80
		50	25	19.71	19.64	19.75	20.80
	DFT-s-OFDM 256QAM	1	1	18.58	18.51	18.65	19.50
		1	104	18.67	18.60	18.70	19.50
		50	25	18.46	18.40	18.47	19.50
	CP-OFDM QPSK	1	1	19.45	19.40	19.50	20.80
	CP-OFDM 16QAM	1	1	19.49	19.43	19.50	20.80
	CP-OFDM 64QAM	1	1	19.46	19.39	19.49	20.50
	CP-OFDM 256QAM	1	1	15.82	15.75	15.86	17.50

NR n7							
Hotspot on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5MHz	DFT-s-OFDM BPSK	1	1	19.23	19.10	19.18	20.30
		1	23	19.21	19.09	19.20	20.30
		12	6	19.29	19.10	19.24	20.30
		25	0	19.12	19.14	18.68	20.30
	DFT-s-OFDM QPSK	1	1	18.98	19.01	19.03	20.30
		1	23	19.12	19.06	18.93	20.30
		12	6	18.98	19.15	18.93	20.30
		25	0	19.03	19.10	18.94	20.30
	DFT-s-OFDM 16QAM	1	1	19.45	19.34	19.42	20.30
		1	23	19.48	19.45	19.46	20.30
		12	6	19.26	19.10	19.19	20.30
	DFT-s-OFDM 64QAM	1	1	19.26	19.13	19.21	20.30
		1	23	19.29	19.19	19.26	20.30
		12	6	19.27	19.16	19.22	20.30
	DFT-s-OFDM 256QAM	1	1	18.71	18.65	18.70	19.50
		1	23	18.79	18.72	18.78	19.50
		12	6	18.51	18.43	18.46	19.50
	CP-OFDM QPSK	1	1	19.04	18.91	19.02	20.30
	CP-OFDM 16QAM	1	1	19.34	19.23	19.29	20.30
	CP-OFDM 64QAM	1	1	19.57	19.44	19.51	20.30
	CP-OFDM 256QAM	1	1	15.74	15.73	15.69	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	19.25	19.11	19.21	20.30
		1	50	19.24	19.14	19.24	20.30
		25	12	19.31	19.14	19.27	20.30
		50	0	19.15	19.19	18.72	20.30
	DFT-s-OFDM QPSK	1	1	19.01	19.06	19.07	20.30
		1	50	19.14	19.10	18.98	20.30
		25	12	19.02	19.17	18.97	20.30
		50	0	19.07	19.13	18.96	20.30
	DFT-s-OFDM 16QAM	1	1	19.49	19.38	19.45	20.30
		1	50	19.51	19.47	19.49	20.30
		25	12	19.29	19.15	19.23	20.30
	DFT-s-OFDM	1	1	19.28	19.17	19.24	20.30

	64QAM	1	50	19.32	19.24	19.30	20.30
		25	12	19.30	19.21	19.26	20.30
	DFT-s-OFDM 256QAM	1	1	18.73	18.64	18.72	19.50
		1	50	18.82	18.72	18.81	19.50
		25	12	18.50	18.45	18.49	19.50
	CP-OFDM QPSK	1	1	19.07	18.96	19.02	20.30
	CP-OFDM 16QAM	1	1	19.36	19.27	19.32	20.30
	CP-OFDM 64QAM	1	1	19.60	19.49	19.55	20.30
	CP-OFDM 256QAM	1	1	15.77	15.78	15.73	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501500/2507.5	507000/2535	512500/2562.5	
15MHz	DFT-s-OFDM BPSK	1	1	19.24	19.07	19.19	20.30
		1	77	19.22	19.13	19.21	20.30
		36	18	19.28	19.09	19.23	20.30
		75	0	19.13	19.15	18.69	20.30
	DFT-s-OFDM QPSK	1	1	18.98	19.01	19.03	20.30
		1	77	19.11	19.07	18.94	20.30
		36	18	19.00	19.13	18.92	20.30
		75	0	19.05	19.11	18.94	20.30
	DFT-s-OFDM 16QAM	1	1	19.47	19.35	19.43	20.30
		1	77	19.49	19.43	19.46	20.30
		36	18	19.26	19.13	19.20	20.30
	DFT-s-OFDM 64QAM	1	1	19.25	19.12	19.20	20.30
		1	77	19.30	19.20	19.27	20.30
		36	18	19.27	19.16	19.22	20.30
	DFT-s-OFDM 256QAM	1	1	18.68	18.62	18.70	19.50
		1	77	18.80	18.69	18.79	19.50
		36	18	18.51	18.44	18.50	19.50
	CP-OFDM QPSK	1	1	19.06	18.98	19.03	20.30
	CP-OFDM 16QAM	1	1	19.34	19.24	19.31	20.30
	CP-OFDM 64QAM	1	1	19.58	19.45	19.52	20.30
	CP-OFDM 256QAM	1	1	15.74	15.73	15.69	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM	1	1	19.21	19.03	19.16	20.30

	BPSK	1	104	19.21	19.09	19.19	20.30
		50	25	19.26	19.08	19.20	20.30
		100	0	19.10	19.10	18.65	20.30
	DFT-s-OFDM QPSK	1	1	18.96	18.97	19.00	20.30
		1	104	19.08	19.02	18.90	20.30
		50	25	18.97	19.08	18.88	20.30
		100	0	19.02	19.07	18.89	20.30
	DFT-s-OFDM 16QAM	1	1	19.44	19.33	19.39	20.30
		1	104	19.46	19.40	19.44	20.30
		50	25	19.23	19.09	19.17	20.30
	DFT-s-OFDM 64QAM	1	1	19.22	19.10	19.17	20.30
		1	104	19.27	19.15	19.23	20.30
		50	25	19.25	19.12	19.19	20.30
	DFT-s-OFDM 256QAM	1	1	18.66	18.58	18.65	19.50
		1	104	18.76	18.67	18.75	19.50
		50	25	18.45	18.38	18.44	19.50
	CP-OFDM QPSK	1	1	19.01	18.90	18.96	20.30
	CP-OFDM 16QAM	1	1	19.30	19.20	19.25	20.30
	CP-OFDM 64QAM	1	1	19.55	19.40	19.48	20.30
	CP-OFDM 256QAM	1	1	15.72	15.69	15.66	17.50

NR n7							
Receiver on&Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5MHz	DFT-s-OFDM BPSK	1	1	19.72	19.69	19.66	20.30
		1	23	19.62	19.63	19.62	20.30
		12	6	19.80	19.68	19.76	20.30
		25	0	19.73	19.69	19.71	20.30
	DFT-s-OFDM QPSK	1	1	19.59	19.78	19.71	20.30
		1	23	19.62	19.73	19.63	20.30
		12	6	19.51	19.72	19.65	20.30
		25	0	19.51	19.75	19.71	20.30
	DFT-s-OFDM 16QAM	1	1	19.65	19.51	19.63	20.30
		1	23	19.56	19.49	19.50	20.30
		12	6	19.81	19.69	19.75	20.30
	DFT-s-OFDM 64QAM	1	1	19.68	19.58	19.64	20.30
		1	23	19.81	19.71	19.76	20.30
		12	6	19.81	19.71	19.79	20.30

	DFT-s-OFDM 256QAM	1	1	18.30	18.17	18.27	18.40
		1	23	18.21	18.30	18.32	18.40
		12	6	18.17	18.10	18.12	18.40
	CP-OFDM QPSK	1	1	19.61	19.51	19.57	20.30
	CP-OFDM 16QAM	1	1	19.47	19.38	19.45	20.30
	CP-OFDM 64QAM	1	1	19.18	19.20	19.25	19.40
	CP-OFDM 256QAM	1	1	16.00	15.90	15.98	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	19.68	19.64	19.62	20.30
		1	50	19.62	19.60	19.61	20.30
		25	12	19.77	19.66	19.72	20.30
		50	0	19.70	19.64	19.67	20.30
	DFT-s-OFDM QPSK	1	1	19.58	19.75	19.67	20.30
		1	50	19.59	19.70	19.60	20.30
		25	12	19.52	19.68	19.63	20.30
		50	0	19.52	19.70	19.65	20.30
	DFT-s-OFDM 16QAM	1	1	19.66	19.51	19.59	20.30
		1	50	19.53	19.46	19.47	20.30
		25	12	19.79	19.66	19.73	20.30
	DFT-s-OFDM 64QAM	1	1	19.64	19.55	19.60	20.30
		1	50	19.78	19.66	19.72	20.30
		25	12	19.80	19.68	19.75	20.30
	DFT-s-OFDM 256QAM	1	1	18.29	18.12	18.21	18.40
		1	50	18.17	18.30	18.28	18.40
		25	12	18.11	18.04	18.05	18.40
	CP-OFDM QPSK	1	1	19.57	19.44	19.51	20.30
	CP-OFDM 16QAM	1	1	19.42	19.33	19.38	20.30
	CP-OFDM 64QAM	1	1	19.15	19.15	19.21	19.40
	CP-OFDM 256QAM	1	1	15.99	15.87	15.94	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501500/2507.5	507000/2535	512500/2562.5	
15MHz	DFT-s-OFDM BPSK	1	1	19.67	19.60	19.60	20.30
		1	77	19.60	19.59	19.58	20.30
		36	18	19.74	19.61	19.68	20.30

		75	0	19.68	19.60	19.64	20.30
	DFT-s-OFDM QPSK	1	1	19.55	19.70	19.63	20.30
		1	77	19.56	19.67	19.56	20.30
		36	18	19.50	19.64	19.58	20.30
		75	0	19.50	19.68	19.63	20.30
	DFT-s-OFDM 16QAM	1	1	19.64	19.48	19.57	20.30
		1	77	19.51	19.42	19.44	20.30
		36	18	19.76	19.64	19.70	20.30
	DFT-s-OFDM 64QAM	1	1	19.61	19.50	19.56	20.30
		1	77	19.76	19.62	19.69	20.30
		36	18	19.77	19.63	19.71	20.30
	DFT-s-OFDM 256QAM	1	1	18.24	18.10	18.19	18.40
		1	77	18.15	18.27	18.26	18.40
		36	18	18.12	18.03	18.06	18.40
	CP-OFDM QPSK	1	1	19.56	19.46	19.52	20.30
	CP-OFDM 16QAM	1	1	19.40	19.30	19.37	20.30
	CP-OFDM 64QAM	1	1	19.13	19.11	19.18	19.40
	CP-OFDM 256QAM	1	1	15.96	15.82	15.90	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	19.64	19.56	19.57	20.30
		1	104	19.59	19.55	19.56	20.30
		50	25	19.72	19.60	19.65	20.30
		100	0	19.65	19.55	19.60	20.30
	DFT-s-OFDM QPSK	1	1	19.53	19.66	19.60	20.30
		1	104	19.53	19.62	19.52	20.30
		50	25	19.47	19.59	19.54	20.30
		100	0	19.47	19.64	19.58	20.30
	DFT-s-OFDM 16QAM	1	1	19.61	19.46	19.53	20.30
		1	104	19.48	19.39	19.42	20.30
		50	25	19.73	19.60	19.67	20.30
	DFT-s-OFDM 64QAM	1	1	19.58	19.48	19.53	20.30
		1	104	19.73	19.57	19.65	20.30
		50	25	19.75	19.59	19.68	20.30
	DFT-s-OFDM 256QAM	1	1	18.22	18.06	18.14	18.40
		1	104	18.11	18.25	18.22	18.40
		50	25	18.06	17.97	18.00	18.40
	CP-OFDM QPSK	1	1	19.51	19.38	19.45	20.30

	CP-OFDM 16QAM	1	1	19.36	19.26	19.31	20.30
	CP-OFDM 64QAM	1	1	19.10	19.06	19.14	19.40
	CP-OFDM 256QAM	1	1	15.94	15.78	15.87	16.40

NR n7							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500500/2502.5	507000/2535	513500/2567.5	
5MHz	DFT-s-OFDM BPSK	1	1	14.84	14.83	14.79	15.60
		1	23	14.66	14.69	14.70	15.60
		12	6	14.87	14.83	14.89	15.60
		25	0	14.91	14.92	14.91	15.60
	DFT-s-OFDM QPSK	1	1	14.75	14.84	14.73	15.60
		1	23	14.80	14.77	14.74	15.60
		12	6	14.56	14.93	14.78	15.60
		25	0	14.67	14.90	14.78	15.60
	DFT-s-OFDM 16QAM	1	1	14.49	14.43	14.58	15.60
		1	23	14.46	14.44	14.48	15.60
		12	6	14.90	14.84	14.95	15.60
	DFT-s-OFDM 64QAM	1	1	14.90	14.87	14.93	15.60
		1	23	14.84	14.84	14.91	15.60
		12	6	14.93	14.94	15.03	15.60
	DFT-s-OFDM 256QAM	1	1	15.18	15.08	15.22	15.60
		1	23	15.13	15.01	15.20	15.60
		12	6	14.92	14.90	14.98	15.60
	CP-OFDM QPSK	1	1	14.80	14.74	14.85	15.60
	CP-OFDM 16QAM	1	1	15.00	14.97	15.03	15.60
	CP-OFDM 64QAM	1	1	14.88	14.88	14.95	15.60
	CP-OFDM 256QAM	1	1	14.50	14.51	14.60	15.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	14.82	14.78	14.76	15.60
		1	50	14.65	14.69	14.68	15.60
		25	12	14.83	14.77	14.84	15.60
		50	0	14.89	14.88	14.88	15.60
	DFT-s-OFDM	1	1	14.73	14.80	14.68	15.60

	QPSK	1	50	14.77	14.76	14.71	15.60
		25	12	14.58	14.90	14.75	15.60
		50	0	14.69	14.87	14.75	15.60
	DFT-s-OFDM 16QAM	1	1	14.51	14.42	14.56	15.60
		1	50	14.44	14.40	14.44	15.60
		25	12	14.88	14.83	14.93	15.60
	DFT-s-OFDM 64QAM	1	1	14.86	14.81	14.88	15.60
		1	50	14.82	14.80	14.88	15.60
		25	12	14.91	14.90	14.98	15.60
	DFT-s-OFDM 256QAM	1	1	15.12	15.05	15.19	15.60
		1	50	15.11	15.00	15.18	15.60
		25	12	14.93	14.89	14.98	15.60
	CP-OFDM QPSK	1	1	14.80	14.77	14.87	15.60
	CP-OFDM 16QAM	1	1	14.97	14.93	15.01	15.60
	CP-OFDM 64QAM	1	1	14.86	14.84	14.92	15.60
	CP-OFDM 256QAM	1	1	14.48	14.47	14.55	15.60
	CP-OFDM 256QAM	1	1	14.48	14.47	14.55	15.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501500/2507.5	507000/2535	512500/2562.5	
15MHz	DFT-s-OFDM BPSK	1	1	14.79	14.74	14.73	15.60
		1	77	14.64	14.65	14.66	15.60
		36	18	14.81	14.76	14.81	15.60
		75	0	14.86	14.83	14.84	15.60
	DFT-s-OFDM QPSK	1	1	14.71	14.76	14.65	15.60
		1	77	14.74	14.71	14.67	15.60
		36	18	14.55	14.85	14.71	15.60
		75	0	14.66	14.83	14.70	15.60
	DFT-s-OFDM 16QAM	1	1	14.48	14.40	14.52	15.60
		1	77	14.41	14.37	14.42	15.60
		36	18	14.85	14.79	14.90	15.60
	DFT-s-OFDM 64QAM	1	1	14.83	14.79	14.85	15.60
		1	77	14.79	14.75	14.84	15.60
		36	18	14.89	14.86	14.95	15.60
	DFT-s-OFDM 256QAM	1	1	15.10	15.01	15.14	15.60
		1	77	15.07	14.98	15.14	15.60
		36	18	14.87	14.83	14.92	15.60
	CP-OFDM QPSK	1	1	14.75	14.69	14.80	15.60
	CP-OFDM 16QAM	1	1	14.93	14.89	14.95	15.60

	CP-OFDM 64QAM	1	1	14.83	14.79	14.88	15.60
	CP-OFDM 256QAM	1	1	14.46	14.43	14.52	15.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	14.75	14.66	14.68	15.60
		1	104	14.61	14.60	14.61	15.60
		50	25	14.76	14.70	14.74	15.60
		100	0	14.81	14.74	14.77	15.60
	DFT-s-OFDM QPSK	1	1	14.66	14.67	14.58	15.60
		1	104	14.68	14.63	14.59	15.60
		50	25	14.50	14.76	14.62	15.60
		100	0	14.61	14.77	14.63	15.60
	DFT-s-OFDM 16QAM	1	1	14.43	14.35	14.46	15.60
		1	104	14.36	14.30	14.37	15.60
		50	25	14.79	14.73	14.84	15.60
	DFT-s-OFDM 64QAM	1	1	14.77	14.72	14.78	15.60
		1	104	14.74	14.66	14.77	15.60
		50	25	14.84	14.77	14.88	15.60
	DFT-s-OFDM 256QAM	1	1	15.03	14.95	15.07	15.60
		1	104	15.01	14.93	15.08	15.60
		50	25	14.82	14.76	14.87	15.60
	CP-OFDM QPSK	1	1	14.69	14.63	14.74	15.60
	CP-OFDM 16QAM	1	1	14.87	14.82	14.88	15.60
	CP-OFDM 64QAM	1	1	14.78	14.70	14.81	15.60
	CP-OFDM 256QAM	1	1	14.41	14.34	14.45	15.60

NR n38							
Receiver on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	18.29	18.18	18.22	19.00
		1	49	18.16	18.13	18.16	19.00
		25	12	18.16	18.09	18.14	19.00
		50	0	18.19	18.10	18.15	19.00
	DFT-s-OFDM QPSK	1	1	18.37	18.20	18.27	19.00
		1	49	18.32	18.16	18.18	19.00
		25	12	18.24	18.16	18.09	19.00

		50	0	18.25	18.20	18.09	19.00
	DFT-s-OFDM 16QAM	1	1	18.17	18.09	18.24	19.00
		1	49	18.20	18.14	18.20	19.00
		25	12	18.02	17.96	18.04	19.00
	DFT-s-OFDM 64QAM	1	1	18.18	18.13	18.22	19.00
		1	49	18.16	18.08	18.20	19.00
		25	12	18.13	18.06	18.17	19.00
	DFT-s-OFDM 256QAM	1	1	18.06	17.98	18.13	19.00
		1	49	18.19	18.11	18.22	19.00
		25	12	18.10	18.04	18.11	19.00
	CP-OFDM QPSK	1	1	18.04	17.98	18.09	19.00
	CP-OFDM 16QAM	1	1	18.11	18.06	18.12	19.00
	CP-OFDM 64QAM	1	1	18.38	18.30	18.41	19.00
	CP-OFDM 256QAM	1	1	17.01	16.94	17.05	18.50

NR n38							
Receiver off-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	20.35	20.83	20.90	21.40
		1	49	20.95	20.78	20.81	21.40
		25	12	20.84	20.73	20.80	21.40
		50	0	20.82	20.63	20.68	21.40
	DFT-s-OFDM QPSK	1	1	20.70	20.74	20.83	21.40
		1	49	20.72	20.84	20.78	21.40
		25	12	20.62	20.69	20.71	21.40
		50	0	20.69	20.60	20.70	21.40
	DFT-s-OFDM 16QAM	1	1	20.79	20.71	20.84	21.40
		1	49	20.84	20.79	20.86	21.40
		25	12	20.78	20.72	20.84	21.40
	DFT-s-OFDM 64QAM	1	1	20.85	20.76	20.90	21.40
		1	49	20.76	20.67	20.80	21.40
		25	12	20.75	20.67	20.81	21.40
	DFT-s-OFDM 256QAM	1	1	19.25	19.16	19.26	20.50
		1	49	19.30	19.24	19.31	20.50
		25	12	19.30	19.25	19.31	20.50
	CP-OFDM QPSK	1	1	20.73	20.66	20.78	21.40
	CP-OFDM	1	1	20.73	20.67	20.78	21.40

	16QAM						
	CP-OFDM 64QAM	1	1	20.58	20.51	20.65	21.40
	CP-OFDM 256QAM	1	1	16.95	16.86	17.00	18.50

NR n38							
Hotspot on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	15.78	15.74	15.76	16.70
		1	49	15.79	15.78	15.79	16.70
		25	12	15.77	15.70	15.74	16.70
		50	0	15.75	15.70	15.73	16.70
	DFT-s-OFDM QPSK	1	1	15.98	15.76	15.83	16.70
		1	49	15.89	15.80	15.76	16.70
		25	12	15.69	15.73	15.68	16.70
		50	0	15.70	15.73	15.66	16.70
	DFT-s-OFDM 16QAM	1	1	15.81	15.74	15.82	16.70
		1	49	15.80	15.77	15.81	16.70
		25	12	15.76	15.69	15.81	16.70
	DFT-s-OFDM 64QAM	1	1	15.86	15.81	15.91	16.70
		1	49	15.84	15.76	15.91	16.70
		25	12	15.82	15.73	15.87	16.70
	DFT-s-OFDM 256QAM	1	1	15.68	15.60	15.72	16.70
		1	49	15.67	15.60	15.75	16.70
		25	12	15.73	15.70	15.79	16.70
	CP-OFDM QPSK	1	1	15.67	15.60	15.72	16.70
	CP-OFDM 16QAM	1	1	15.72	15.67	15.77	16.70
	CP-OFDM 64QAM	1	1	16.09	16.01	16.16	16.70
	CP-OFDM 256QAM	1	1	15.66	15.57	15.71	16.70

NR n38							
Receiver on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	21.48	21.36	21.41	22.10
		1	49	21.31	21.20	21.25	22.10
		25	12	21.22	21.10	21.17	22.10

		50	0	21.17	21.04	21.11	22.10
	DFT-s-OFDM QPSK	1	1	21.22	20.96	21.20	22.10
		1	49	20.97	21.03	21.06	22.10
		25	12	20.86	20.98	21.03	22.10
		50	0	20.72	20.90	20.95	22.10
	DFT-s-OFDM 16QAM	1	1	20.93	20.80	20.87	22.10
		1	49	20.75	20.71	20.71	22.10
		25	12	21.00	20.90	20.92	22.10
	DFT-s-OFDM 64QAM	1	1	19.57	19.46	19.50	21.00
		1	49	19.65	19.53	19.57	21.00
		25	12	19.55	19.44	19.48	21.00
	DFT-s-OFDM 256QAM	1	1	17.45	17.31	17.38	19.00
		1	49	17.48	17.37	17.40	19.00
		25	12	17.12	17.05	17.06	19.00
	CP-OFDM QPSK	1	1	20.35	20.24	20.29	22.00
	CP-OFDM 16QAM	1	1	20.05	19.99	20.00	21.50
	CP-OFDM 64QAM	1	1	18.57	18.46	18.49	20.00
	CP-OFDM 256QAM	1	1	15.02	15.08	15.06	17.00

NR n38							
Receiver off-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	19.46	19.36	19.44	20.20
		1	49	19.28	19.23	19.28	20.20
		25	12	19.30	19.21	19.27	20.20
		50	0	18.97	18.86	18.95	20.20
	DFT-s-OFDM QPSK	1	1	19.24	19.11	19.20	20.20
		1	49	19.23	19.13	19.10	20.20
		25	12	19.04	19.09	19.27	20.20
		50	0	19.06	19.10	19.05	20.20
	DFT-s-OFDM 16QAM	1	1	19.06	18.98	18.99	20.20
		1	49	19.06	19.02	19.03	20.20
		25	12	19.21	19.12	19.14	20.20
	DFT-s-OFDM 64QAM	1	1	19.14	19.06	19.09	20.20
		1	49	19.20	19.08	19.12	20.20
		25	12	19.20	19.09	19.11	20.20
	DFT-s-OFDM 256QAM	1	1	17.16	17.06	17.08	19.00
		1	49	17.28	17.16	17.21	19.00

		25	12	17.18	17.12	17.15	19.00
	CP-OFDM QPSK	1	1	19.18	19.05	19.11	20.20
	CP-OFDM 16QAM	1	1	19.40	19.32	19.35	20.20
	CP-OFDM 64QAM	1	1	18.42	18.30	18.34	20.00
	CP-OFDM 256QAM	1	1	15.13	15.02	15.04	17.00

NR n38							
Hotspot on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	14.29	14.25	14.31	15.40
		1	49	14.31	14.27	14.31	15.40
		25	12	14.19	14.18	14.22	15.40
		50	0	14.27	14.22	14.29	15.40
	DFT-s-OFDM QPSK	1	1	14.24	14.25	14.35	15.40
		1	49	14.31	14.28	14.37	15.40
		25	12	14.25	14.20	14.24	15.40
		50	0	14.12	14.16	14.22	15.40
	DFT-s-OFDM 16QAM	1	1	14.10	14.07	14.15	15.40
		1	49	14.11	14.10	14.13	15.40
		25	12	14.23	14.18	14.29	15.40
	DFT-s-OFDM 64QAM	1	1	14.16	14.15	14.21	15.40
		1	49	14.23	14.20	14.27	15.40
		25	12	14.23	14.19	14.29	15.40
	DFT-s-OFDM 256QAM	1	1	14.18	14.14	14.19	15.40
		1	49	14.27	14.20	14.28	15.40
		25	12	14.26	14.21	14.27	15.40
	CP-OFDM QPSK	1	1	14.24	14.19	14.29	15.40
	CP-OFDM 16QAM	1	1	14.42	14.41	14.47	15.40
	CP-OFDM 64QAM	1	1	14.18	14.15	14.25	15.40
	CP-OFDM 256QAM	1	1	14.21	14.17	14.26	15.40

NR n38							
Receiver on-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	20.83	20.77	20.58	22.50
		1	49	20.77	20.70	20.75	22.50
		25	12	20.58	20.64	20.72	22.50
		50	0	20.19	20.16	20.33	22.00
	DFT-s-OFDM QPSK	1	1	20.82	20.68	20.92	22.50
		1	49	20.66	20.76	20.81	22.50
		25	12	20.60	20.58	20.65	22.50
		50	0	19.62	19.53	19.56	21.50
	DFT-s-OFDM 16QAM	1	1	19.64	19.69	19.58	21.50
		1	49	19.62	19.64	19.58	21.50
		25	12	19.55	19.61	19.47	21.50
	DFT-s-OFDM 64QAM	1	1	18.27	18.32	18.20	20.00
		1	49	18.32	18.36	18.24	20.00
		25	12	18.18	18.24	18.11	20.00
	DFT-s-OFDM 256QAM	1	1	15.72	15.73	15.65	18.00
		1	49	15.80	15.81	15.72	18.00
		25	12	15.90	15.91	15.84	18.00
	CP-OFDM QPSK	1	1	19.16	19.21	19.10	21.00
	CP-OFDM 16QAM	1	1	18.85	18.90	18.80	20.50
	CP-OFDM 64QAM	1	1	17.12	17.19	17.04	19.00
	CP-OFDM 256QAM	1	1	13.92	13.88	13.76	16.00

NR n38							
Receiver off-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	20.10	20.05	20.14	20.90
		1	49	19.96	19.94	20.00	20.90
		25	12	19.80	19.74	19.81	20.90
		50	0	19.80	19.75	19.85	20.90
	DFT-s-OFDM QPSK	1	1	19.92	19.63	19.73	20.90
		1	49	19.75	19.91	19.71	20.90
		25	12	19.58	19.74	19.61	20.90
		50	0	19.62	19.66	19.64	20.90

	DFT-s-OFDM 16QAM	1	1	19.91	19.86	19.96	20.90
		1	49	19.96	19.91	19.98	20.90
		25	12	19.75	19.68	19.81	20.90
	DFT-s-OFDM 64QAM	1	1	18.47	18.40	18.52	20.00
		1	49	18.48	18.41	18.52	20.00
		25	12	18.38	18.30	18.44	20.00
	DFT-s-OFDM 256QAM	1	1	16.12	16.03	16.13	18.00
		1	49	16.15	16.08	16.16	18.00
		25	12	16.08	16.02	16.09	18.00
	CP-OFDM QPSK	1	1	19.19	19.14	19.24	20.90
	CP-OFDM 16QAM	1	1	18.72	18.66	18.77	20.50
	CP-OFDM 64QAM	1	1	17.25	17.18	17.32	19.00
	CP-OFDM 256QAM	1	1	13.95	14.06	14.18	16.00

NR n38							
Hotspot on-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	19.44	19.30	19.36	20.40
		1	49	19.30	19.20	19.24	20.40
		25	12	19.24	19.10	19.18	20.40
		50	0	19.28	19.16	19.23	20.40
	DFT-s-OFDM QPSK	1	1	19.30	19.17	19.14	20.40
		1	49	19.19	19.11	19.10	20.40
		25	12	18.98	19.02	19.58	20.40
		50	0	19.02	19.01	19.06	20.40
	DFT-s-OFDM 16QAM	1	1	18.98	19.01	19.06	20.40
		1	49	19.07	19.08	19.10	20.40
		25	12	19.02	19.04	19.10	20.40
	DFT-s-OFDM 64QAM	1	1	18.24	18.27	18.32	20.00
		1	49	18.25	18.27	18.31	20.00
		25	12	18.11	18.14	18.20	20.00
	DFT-s-OFDM 256QAM	1	1	15.90	15.93	15.94	18.00
		1	49	16.05	16.08	16.09	18.00
		25	12	15.83	15.86	15.87	18.00
	CP-OFDM QPSK	1	1	19.22	19.25	19.30	20.40
	CP-OFDM 16QAM	1	1	18.90	18.93	18.98	20.40

	CP-OFDM 64QAM	1	1	17.06	17.09	17.16	19.00
	CP-OFDM 256QAM	1	1	13.97	14.00	14.05	16.00

NR n38							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	19.86	19.73	19.77	20.40
		1	49	19.57	19.50	19.53	20.40
		25	12	19.56	19.44	19.49	20.40
		50	0	19.59	19.45	19.50	20.40
	DFT-s-OFDM QPSK	1	1	19.52	19.45	19.54	20.40
		1	49	19.48	19.37	19.38	20.40
		25	12	19.30	19.40	19.37	20.40
		50	0	18.80	18.94	18.86	20.40
	DFT-s-OFDM 16QAM	1	1	18.58	18.56	18.48	20.40
		1	49	18.57	18.56	18.50	20.40
		25	12	18.90	18.86	18.80	20.40
	DFT-s-OFDM 64QAM	1	1	17.19	17.16	17.11	18.90
		1	49	17.27	17.24	17.16	18.90
		25	12	17.16	17.13	17.06	18.90
	DFT-s-OFDM 256QAM	1	1	15.16	15.11	15.03	16.90
		1	49	15.08	15.03	14.95	16.90
		25	12	15.23	15.20	15.14	16.90
	CP-OFDM QPSK	1	1	18.24	18.22	18.16	19.90
	CP-OFDM 16QAM	1	1	17.74	17.72	17.67	19.40
	CP-OFDM 64QAM	1	1	16.35	16.31	16.23	17.90
	CP-OFDM 256QAM	1	1	13.03	13.00	12.93	14.90

NR n38							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	18.41	18.35	18.49	19.70
		1	49	18.37	18.32	18.43	19.70
		25	12	18.22	18.15	18.28	19.70
		50	0	18.29	18.23	18.34	19.70

	DFT-s-OFDM QPSK	1	1	18.48	18.50	18.64	19.70
		1	49	18.44	18.36	18.60	19.70
		25	12	18.20	18.28	18.52	19.70
		50	0	18.22	18.24	18.55	19.70
	DFT-s-OFDM 16QAM	1	1	18.50	18.38	18.45	19.70
		1	49	18.36	18.30	18.33	19.70
		25	12	18.29	18.20	18.27	19.70
	DFT-s-OFDM 64QAM	1	1	16.99	16.92	16.97	18.90
		1	49	17.07	16.95	17.03	18.90
		25	12	17.05	16.93	17.02	18.90
	DFT-s-OFDM 256QAM	1	1	15.10	14.99	15.07	16.90
		1	49	15.07	14.95	15.02	16.90
		25	12	14.99	14.93	14.96	16.90
	CP-OFDM QPSK	1	1	17.89	17.80	17.87	19.70
	CP-OFDM 16QAM	1	1	17.81	17.70	17.75	19.40
	CP-OFDM 64QAM	1	1	16.19	16.07	16.15	17.90
	CP-OFDM 256QAM	1	1	13.03	12.91	13.00	14.90

NR n38							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	13.77	13.75	13.86	15.00
		1	49	13.75	13.74	13.79	15.00
		25	12	13.70	13.66	13.77	15.00
		50	0	13.70	13.67	13.79	15.00
	DFT-s-OFDM QPSK	1	1	13.84	13.66	13.83	15.00
		1	49	13.78	13.70	13.74	15.00
		25	12	13.74	13.76	13.71	15.00
		50	0	13.73	13.79	13.70	15.00
	DFT-s-OFDM 16QAM	1	1	13.90	13.80	13.81	15.00
		1	49	13.82	13.77	13.78	15.00
		25	12	13.75	13.66	13.68	15.00
	DFT-s-OFDM 64QAM	1	1	13.68	13.56	13.59	15.00
		1	49	13.67	13.55	13.59	15.00
		25	12	13.68	13.60	13.62	15.00
	DFT-s-OFDM 256QAM	1	1	13.67	13.57	13.59	15.00
		1	49	13.68	13.56	13.61	15.00
		25	12	13.76	13.70	13.73	15.00

	CP-OFDM QPSK	1	1	13.69	13.56	13.62	15.00
	CP-OFDM 16QAM	1	1	13.98	13.90	13.93	15.00
	CP-OFDM 64QAM	1	1	13.95	13.83	13.87	15.00
	CP-OFDM 256QAM	1	1	13.03	12.92	12.94	14.90

NR n41 PC2							
Receiver on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	18.00	17.99	18.06	19.30
		1	49	17.74	17.74	17.78	19.30
		25	12	17.95	17.90	18.03	19.30
		50	0	17.82	17.81	17.89	19.30
	DFT-s-OFDM QPSK	1	1	18.07	17.92	18.38	19.30
		1	49	18.08	17.88	17.93	19.30
		25	12	17.81	17.94	18.13	19.30
		50	0	17.71	17.81	18.11	19.30
	DFT-s-OFDM 16QAM	1	1	17.81	17.76	17.80	19.30
		1	49	17.92	17.89	17.89	19.30
		25	12	17.96	17.86	17.88	19.30
	DFT-s-OFDM 64QAM	1	1	17.98	17.89	17.92	19.30
		1	49	17.93	17.85	17.87	19.30
		25	12	17.95	17.90	17.92	19.30
	DFT-s-OFDM 256QAM	1	1	17.77	17.67	17.70	19.30
		1	49	17.76	17.60	17.68	19.30
		25	12	17.98	17.91	17.93	19.30
	CP-OFDM QPSK	1	1	17.83	17.71	17.77	19.30
	CP-OFDM 16QAM	1	1	17.86	17.79	17.82	19.30
	CP-OFDM 64QAM	1	1	18.12	18.04	18.06	19.30
	CP-OFDM 256QAM	1	1	17.73	17.68	17.70	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	17.97	17.97	18.02	19.30
		1	76	17.72	17.70	17.75	19.30
		36	18	17.92	17.85	17.99	19.30

		75	0	17.79	17.76	17.85	19.30
	DFT-s-OFDM QPSK	1	1	18.05	17.88	18.33	19.30
		1	76	18.06	17.86	17.89	19.30
		36	18	17.81	17.93	18.11	19.30
		75	0	17.71	17.77	18.08	19.30
	DFT-s-OFDM 16QAM	1	1	17.81	17.74	17.77	19.30
		1	76	17.89	17.87	17.85	19.30
		36	18	17.94	17.82	17.85	19.30
	DFT-s-OFDM 64QAM	1	1	17.95	17.84	17.88	19.30
		1	76	17.90	17.80	17.83	19.30
		36	18	17.93	17.86	17.87	19.30
	DFT-s-OFDM 256QAM	1	1	17.74	17.67	17.67	19.30
		1	76	17.73	17.62	17.65	19.30
		36	18	17.99	17.89	17.89	19.30
	CP-OFDM QPSK	1	1	17.81	17.67	17.78	19.30
	CP-OFDM 16QAM	1	1	17.83	17.74	17.78	19.30
	CP-OFDM 64QAM	1	1	18.09	17.99	18.02	19.30
	CP-OFDM 256QAM	1	1	17.71	17.64	17.65	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	17.99	17.98	18.05	19.30
		1	104	17.75	17.75	17.79	19.30
		50	25	17.94	17.89	18.02	19.30
		100	0	17.82	17.81	17.89	19.30
	DFT-s-OFDM QPSK	1	1	18.08	17.93	18.37	19.30
		1	104	18.08	17.90	17.94	19.30
		50	25	17.85	17.95	18.15	19.30
		100	0	17.75	17.80	18.10	19.30
	DFT-s-OFDM 16QAM	1	1	17.85	17.78	17.80	19.30
		1	104	17.92	17.89	17.88	19.30
		50	25	17.97	17.87	17.89	19.30
	DFT-s-OFDM 64QAM	1	1	17.97	17.88	17.91	19.30
		1	104	17.93	17.85	17.87	19.30
		50	25	17.96	17.91	17.91	19.30
	DFT-s-OFDM 256QAM	1	1	17.76	17.66	17.69	19.30
		1	104	17.76	17.62	17.68	19.30
		50	25	17.98	17.91	17.92	19.30
	CP-OFDM QPSK	1	1	17.84	17.72	17.78	19.30

	CP-OFDM 16QAM	1	1	17.85	17.78	17.81	19.30
	CP-OFDM 64QAM	1	1	18.12	18.04	18.06	19.30
	CP-OFDM 256QAM	1	1	17.74	17.69	17.69	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	18.03	18.03	18.09	19.30
		1	131	17.75	17.78	17.80	19.30
		64	32	17.97	17.91	18.06	19.30
		128	0	17.85	17.86	17.93	19.30
	DFT-s-OFDM QPSK	1	1	18.09	17.96	18.41	19.30
		1	131	18.11	17.93	17.97	19.30
		64	32	17.84	17.99	18.17	19.30
		128	0	17.74	17.85	18.16	19.30
	DFT-s-OFDM 16QAM	1	1	17.84	17.78	17.84	19.30
		1	131	17.95	17.92	17.91	19.30
		64	32	17.99	17.90	17.91	19.30
	DFT-s-OFDM 64QAM	1	1	18.01	17.91	17.95	19.30
		1	131	17.96	17.90	17.91	19.30
		64	32	17.97	17.94	17.95	19.30
	DFT-s-OFDM 256QAM	1	1	17.79	17.71	17.75	19.30
		1	131	17.80	17.62	17.72	19.30
		64	32	18.04	17.97	17.99	19.30
	CP-OFDM QPSK	1	1	17.88	17.79	17.84	19.30
	CP-OFDM 16QAM	1	1	17.90	17.83	17.88	19.30
	CP-OFDM 64QAM	1	1	18.15	18.09	18.10	19.30
	CP-OFDM 256QAM	1	1	17.75	17.72	17.73	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	18.04	18.07	18.11	19.30
		1	160	17.77	17.79	17.83	19.30
		81	40	18.00	17.96	18.10	19.30
		162	0	17.87	17.90	17.96	19.30
	DFT-s-OFDM QPSK	1	1	18.12	18.01	18.45	19.30
		1	160	18.14	17.96	18.01	19.30
		81	40	17.86	18.03	18.22	19.30
		162	0	17.76	17.87	18.18	19.30

	DFT-s-OFDM 16QAM	1	1	17.86	17.81	17.86	19.30
		1	160	17.97	17.96	17.94	19.30
		81	40	18.02	17.92	17.94	19.30
	DFT-s-OFDM 64QAM	1	1	18.04	17.96	17.99	19.30
		1	160	17.98	17.94	17.94	19.30
		81	40	18.00	17.99	17.99	19.30
	DFT-s-OFDM 256QAM	1	1	17.84	17.73	17.77	19.30
		1	160	17.82	17.65	17.74	19.30
		81	40	18.03	17.98	17.98	19.30
	CP-OFDM QPSK	1	1	17.89	17.77	17.83	19.30
	CP-OFDM 16QAM	1	1	17.92	17.86	17.89	19.30
	CP-OFDM 64QAM	1	1	18.17	18.13	18.13	19.30
		1	1	17.78	17.77	17.77	19.30
		1	1	17.78	17.77	17.77	19.30
	CP-OFDM 256QAM	1	1	17.78	17.77	17.77	19.30
		1	1	17.78	17.77	17.77	19.30
		1	1	17.78	17.77	17.77	19.30
	CP-OFDM 256QAM	1	1	17.78	17.77	17.77	19.30
		1	1	17.78	17.77	17.77	19.30
		1	1	17.78	17.77	17.77	19.30
	CP-OFDM 256QAM	1	1	17.78	17.77	17.77	19.30
		1	1	17.78	17.77	17.77	19.30
		1	1	17.78	17.77	17.77	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	17.98	17.94	18.03	19.30
		1	215	17.73	17.74	17.76	19.30
		108	54	17.91	17.84	17.98	19.30
		216	0	17.80	17.77	17.86	19.30
	DFT-s-OFDM QPSK	1	1	18.05	17.88	18.33	19.30
		1	215	18.05	17.87	17.90	19.30
		108	54	17.83	17.91	18.10	19.30
		216	0	17.73	17.78	18.08	19.30
	DFT-s-OFDM 16QAM	1	1	17.83	17.75	17.78	19.30
		1	215	17.90	17.85	17.85	19.30
		108	54	17.94	17.85	17.86	19.30
	DFT-s-OFDM 64QAM	1	1	17.94	17.83	17.87	19.30
		1	215	17.91	17.81	17.84	19.30
		108	54	17.93	17.86	17.87	19.30
	DFT-s-OFDM 256QAM	1	1	17.71	17.64	17.67	19.30
		1	215	17.74	17.59	17.66	19.30
		108	54	17.99	17.90	17.93	19.30
	CP-OFDM QPSK	1	1	17.83	17.74	17.79	19.30
	CP-OFDM 16QAM	1	1	17.83	17.75	17.80	19.30
	CP-OFDM 64QAM	1	1	18.10	18.00	18.03	19.30
	CP-OFDM	1	1	17.71	17.64	17.65	19.30

	256QAM						
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	18.02	18.06	18.08	19.30
		1	243	17.74	17.74	17.79	19.30
		120	60	17.98	17.92	18.07	19.30
		243	0	17.84	17.85	17.92	19.30
	DFT-s-OFDM QPSK	1	1	18.09	17.96	18.41	19.30
		1	243	18.12	17.92	17.96	19.30
		120	60	17.82	18.01	18.18	19.30
		243	0	17.72	17.84	18.16	19.30
	DFT-s-OFDM 16QAM	1	1	17.82	17.77	17.83	19.30
		1	243	17.94	17.94	17.91	19.30
		120	60	17.99	17.87	17.90	19.30
	DFT-s-OFDM 64QAM	1	1	18.02	17.92	17.96	19.30
		1	243	17.95	17.89	17.90	19.30
		120	60	17.97	17.94	17.95	19.30
	DFT-s-OFDM 256QAM	1	1	17.82	17.74	17.75	19.30
		1	243	17.79	17.65	17.71	19.30
		120	60	18.04	17.96	17.95	19.30
	CP-OFDM QPSK	1	1	17.86	17.72	17.83	19.30
	CP-OFDM 16QAM	1	1	17.90	17.82	17.86	19.30
	CP-OFDM 64QAM	1	1	18.14	18.08	18.09	19.30
	CP-OFDM 256QAM	1	1	17.75	17.72	17.73	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	17.95	17.90	18.00	19.30
		1	271	17.72	17.70	17.74	19.30
		135	67	17.89	17.83	17.95	19.30
		270	0	17.77	17.72	17.82	19.30
	DFT-s-OFDM QPSK	1	1	18.03	17.84	18.30	19.30
		1	271	18.02	17.82	17.86	19.30
		135	67	17.80	17.86	18.06	19.30
		270	0	17.70	17.74	18.03	19.30
	DFT-s-OFDM 16QAM	1	1	17.80	17.73	17.74	19.30
		1	271	17.87	17.82	17.83	19.30
		135	67	17.91	17.81	17.83	19.30
	DFT-s-OFDM 64QAM	1	1	17.91	17.81	17.84	19.30
		1	271	17.88	17.76	17.80	19.30

		135	67	17.91	17.82	17.84	19.30
	DFT-s-OFDM 256QAM	1	1	17.69	17.60	17.62	19.30
		1	271	17.70	17.57	17.62	19.30
		135	67	17.93	17.84	17.87	19.30
	CP-OFDM QPSK	1	1	17.78	17.66	17.72	19.30
	CP-OFDM 16QAM	1	1	17.79	17.71	17.74	19.30
	CP-OFDM 64QAM	1	1	18.07	17.95	17.99	19.30
	CP-OFDM 256QAM	1	1	17.69	17.60	17.62	19.30

NR n41 PC2							
Receiver off-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	20.25	20.26	20.32	21.40
		1	49	20.10	20.11	20.22	21.40
		25	12	20.28	20.23	20.39	21.40
		50	0	20.20	20.23	20.32	21.40
	DFT-s-OFDM QPSK	1	1	20.09	20.26	20.43	21.40
		1	49	20.34	20.16	20.04	21.40
		25	12	20.00	20.24	20.24	21.40
		50	0	20.01	20.11	20.23	21.40
	DFT-s-OFDM 16QAM	1	1	20.07	20.10	20.10	21.40
		1	49	20.22	20.25	20.19	21.40
		25	12	20.26	20.21	20.13	21.40
	DFT-s-OFDM 64QAM	1	1	20.20	20.17	20.10	21.40
		1	49	20.23	20.24	20.12	21.40
		25	12	20.31	20.34	20.27	21.40
	DFT-s-OFDM 256QAM	1	1	20.03	19.97	19.92	21.40
		1	49	20.07	19.93	19.91	21.40
		25	12	20.29	20.27	20.19	21.40
	CP-OFDM QPSK	1	1	19.99	19.94	19.88	21.40
	CP-OFDM 16QAM	1	1	20.16	20.13	20.08	21.40
	CP-OFDM 64QAM	1	1	20.31	20.32	20.20	21.40
	CP-OFDM 256QAM	1	1	18.89	18.97	18.90	20.20

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	20.22	20.24	20.28	21.40
		1	76	20.08	20.07	20.19	21.40
		36	18	20.25	20.18	20.35	21.40
		75	0	20.17	20.18	20.28	21.40
	DFT-s-OFDM QPSK	1	1	20.07	20.22	20.38	21.40
		1	76	20.32	20.14	20.00	21.40
		36	18	20.00	20.23	20.22	21.40
		75	0	20.01	20.07	20.20	21.40
	DFT-s-OFDM 16QAM	1	1	20.07	20.08	20.07	21.40
		1	76	20.19	20.23	20.15	21.40
		36	18	20.24	20.17	20.10	21.40
	DFT-s-OFDM 64QAM	1	1	20.17	20.12	20.06	21.40
		1	76	20.20	20.19	20.08	21.40
		36	18	20.29	20.30	20.22	21.40
	DFT-s-OFDM 256QAM	1	1	20.00	19.97	19.89	21.40
		1	76	20.04	19.95	19.88	21.40
		36	18	20.30	20.25	20.15	21.40
	CP-OFDM QPSK	1	1	19.97	19.90	19.89	21.40
	CP-OFDM 16QAM	1	1	20.13	20.08	20.04	21.40
	CP-OFDM 64QAM	1	1	20.28	20.27	20.16	21.40
	CP-OFDM 256QAM	1	1	18.87	18.93	18.85	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	20.24	20.25	20.31	21.40
		1	104	20.11	20.12	20.23	21.40
		50	25	20.27	20.22	20.38	21.40
		100	0	20.20	20.23	20.32	21.40
	DFT-s-OFDM QPSK	1	1	20.10	20.27	20.42	21.40
		1	104	20.34	20.18	20.05	21.40
		50	25	20.04	20.25	20.26	21.40
		100	0	20.05	20.10	20.22	21.40
	DFT-s-OFDM 16QAM	1	1	20.11	20.12	20.10	21.40
		1	104	20.22	20.25	20.18	21.40
		50	25	20.27	20.22	20.14	21.40
	DFT-s-OFDM 64QAM	1	1	20.19	20.16	20.09	21.40
		1	104	20.23	20.24	20.12	21.40
		50	25	20.32	20.35	20.26	21.40

	DFT-s-OFDM 256QAM	1	1	20.02	19.96	19.91	21.40
		1	104	20.07	19.95	19.91	21.40
		50	25	20.29	20.27	20.18	21.40
	CP-OFDM QPSK	1	1	20.00	19.95	19.89	21.40
	CP-OFDM 16QAM	1	1	20.15	20.12	20.07	21.40
	CP-OFDM 64QAM	1	1	20.31	20.32	20.20	21.40
	CP-OFDM 256QAM	1	1	18.90	18.98	18.89	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	20.23	20.21	20.29	21.40
		1	131	20.09	20.11	20.20	21.40
		64	32	20.24	20.17	20.34	21.40
		128	0	20.18	20.19	20.29	21.40
	DFT-s-OFDM QPSK	1	1	20.07	20.22	20.38	21.40
		1	131	20.31	20.15	20.01	21.40
		64	32	20.02	20.21	20.21	21.40
		128	0	20.03	20.08	20.20	21.40
	DFT-s-OFDM 16QAM	1	1	20.09	20.09	20.08	21.40
		1	131	20.20	20.21	20.15	21.40
		64	32	20.24	20.20	20.11	21.40
	DFT-s-OFDM 64QAM	1	1	20.16	20.11	20.05	21.40
		1	131	20.21	20.20	20.09	21.40
		64	32	20.29	20.30	20.22	21.40
	DFT-s-OFDM 256QAM	1	1	19.97	19.94	19.89	21.40
		1	131	20.05	19.92	19.89	21.40
		64	32	20.30	20.26	20.19	21.40
	CP-OFDM QPSK	1	1	19.99	19.97	19.90	21.40
	CP-OFDM 16QAM	1	1	20.13	20.09	20.06	21.40
	CP-OFDM 64QAM	1	1	20.29	20.28	20.17	21.40
	CP-OFDM 256QAM	1	1	18.87	18.93	18.85	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	20.20	20.17	20.26	21.40
		1	160	20.08	20.07	20.18	21.40
		81	40	20.22	20.16	20.31	21.40

		162	0	20.15	20.14	20.25	21.40
	DFT-s-OFDM QPSK	1	1	20.05	20.18	20.35	21.40
		1	160	20.28	20.10	19.97	21.40
		81	40	19.99	20.16	20.17	21.40
		162	0	20.00	20.04	20.15	21.40
	DFT-s-OFDM 16QAM	1	1	20.06	20.07	20.04	21.40
		1	160	20.17	20.18	20.13	21.40
		81	40	20.21	20.16	20.08	21.40
	DFT-s-OFDM 64QAM	1	1	20.13	20.09	20.02	21.40
		1	160	20.18	20.15	20.05	21.40
		81	40	20.27	20.26	20.19	21.40
	DFT-s-OFDM 256QAM	1	1	19.95	19.90	19.84	21.40
		1	160	20.01	19.90	19.85	21.40
		81	40	20.24	20.20	20.13	21.40
	CP-OFDM QPSK	1	1	19.94	19.89	19.83	21.40
	CP-OFDM 16QAM	1	1	20.09	20.05	20.00	21.40
	CP-OFDM 64QAM	1	1	20.26	20.23	20.13	21.40
	CP-OFDM 256QAM	1	1	18.85	18.89	18.82	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	20.17	20.15	20.22	21.40
		1	215	20.06	20.03	20.15	21.40
		108	54	20.19	20.11	20.27	21.40
		216	0	20.12	20.09	20.21	21.40
	DFT-s-OFDM QPSK	1	1	20.03	20.14	20.30	21.40
		1	215	20.26	20.08	19.93	21.40
		108	54	19.99	20.15	20.15	21.40
		216	0	20.00	20.00	20.12	21.40
	DFT-s-OFDM 16QAM	1	1	20.06	20.05	20.01	21.40
		1	215	20.14	20.16	20.09	21.40
		108	54	20.19	20.12	20.05	21.40
	DFT-s-OFDM 64QAM	1	1	20.10	20.04	19.98	21.40
		1	215	20.15	20.10	20.01	21.40
		108	54	20.25	20.22	20.14	21.40
	DFT-s-OFDM 256QAM	1	1	19.92	19.90	19.81	21.40
		1	215	19.98	19.92	19.82	21.40
		108	54	20.25	20.18	20.09	21.40
	CP-OFDM QPSK	1	1	19.92	19.85	19.84	21.40

	CP-OFDM 16QAM	1	1	20.06	20.00	19.96	21.40
	CP-OFDM 64QAM	1	1	20.23	20.18	20.09	21.40
	CP-OFDM 256QAM	1	1	18.83	18.85	18.77	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	20.19	20.16	20.25	21.40
		1	243	20.09	20.08	20.19	21.40
		120	60	20.21	20.15	20.30	21.40
		243	0	20.15	20.14	20.25	21.40
	DFT-s-OFDM QPSK	1	1	20.06	20.19	20.34	21.40
		1	243	20.28	20.12	19.98	21.40
		120	60	20.03	20.17	20.19	21.40
		243	0	20.04	20.03	20.14	21.40
	DFT-s-OFDM 16QAM	1	1	20.10	20.09	20.04	21.40
		1	243	20.17	20.18	20.12	21.40
		120	60	20.22	20.17	20.09	21.40
	DFT-s-OFDM 64QAM	1	1	20.12	20.08	20.01	21.40
		1	243	20.18	20.15	20.05	21.40
		120	60	20.28	20.27	20.18	21.40
	DFT-s-OFDM 256QAM	1	1	19.94	19.89	19.83	21.40
		1	243	20.01	19.92	19.85	21.40
		120	60	20.24	20.20	20.12	21.40
	CP-OFDM QPSK	1	1	19.95	19.90	19.84	21.40
	CP-OFDM 16QAM	1	1	20.08	20.04	19.99	21.40
	CP-OFDM 64QAM	1	1	20.26	20.23	20.13	21.40
	CP-OFDM 256QAM	1	1	18.86	18.90	18.81	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	20.15	20.08	20.20	21.40
		1	271	20.06	20.03	20.14	21.40
		135	67	20.16	20.09	20.23	21.40
		270	0	20.10	20.05	20.18	21.40
	DFT-s-OFDM QPSK	1	1	20.01	20.10	20.27	21.40
		1	271	20.22	20.04	19.90	21.40
		135	67	19.98	20.08	20.10	21.40
		270	0	19.99	19.97	20.07	21.40

	DFT-s-OFDM 16QAM	1	1	20.05	20.04	19.98	21.40
		1	271	20.12	20.11	20.07	21.40
		135	67	20.16	20.11	20.03	21.40
	DFT-s-OFDM 64QAM	1	1	20.06	20.01	19.94	21.40
		1	271	20.13	20.06	19.98	21.40
		135	67	20.23	20.18	20.11	21.40
	DFT-s-OFDM 256QAM	1	1	19.87	19.83	19.76	21.40
		1	271	19.95	19.87	19.79	21.40
		135	67	20.19	20.13	20.07	21.40
	CP-OFDM QPSK	1	1	19.89	19.84	19.78	21.40
	CP-OFDM 16QAM	1	1	20.02	19.97	19.92	21.40
	CP-OFDM 64QAM	1	1	20.21	20.14	20.06	21.40
	CP-OFDM 256QAM	1	1	18.81	18.81	18.74	20.20

NR n41 PC2							
Hotspot on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	15.34	15.28	15.28	16.70
		1	49	15.29	15.27	15.28	16.70
		25	12	15.42	15.30	15.41	16.70
		50	0	15.35	15.35	15.35	16.70
	DFT-s-OFDM QPSK	1	1	15.30	15.33	15.56	16.70
		1	49	15.55	15.29	15.08	16.70
		25	12	15.22	15.47	15.24	16.70
		50	0	15.24	15.34	15.31	16.70
	DFT-s-OFDM 16QAM	1	1	15.19	15.15	15.24	16.70
		1	49	15.29	15.28	15.26	16.70
		25	12	15.44	15.32	15.36	16.70
	DFT-s-OFDM 64QAM	1	1	15.45	15.34	15.40	16.70
		1	49	15.44	15.39	15.41	16.70
		25	12	15.35	15.33	15.37	16.70
	DFT-s-OFDM 256QAM	1	1	15.14	15.03	15.10	16.70
		1	49	15.33	15.09	15.25	16.70
		25	12	15.40	15.32	15.36	16.70
	CP-OFDM QPSK	1	1	15.18	15.10	15.14	16.70
	CP-OFDM 16QAM	1	1	15.23	15.15	15.22	16.70

	CP-OFDM 64QAM	1	1	15.44	15.39	15.41	16.70
	CP-OFDM 256QAM	1	1	15.07	15.05	15.09	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	15.31	15.24	15.25	16.70
		1	76	15.28	15.23	15.26	16.70
		36	18	15.40	15.29	15.38	16.70
		75	0	15.32	15.30	15.31	16.70
	DFT-s-OFDM QPSK	1	1	15.28	15.29	15.53	16.70
		1	76	15.52	15.24	15.04	16.70
		36	18	15.19	15.42	15.20	16.70
		75	0	15.21	15.30	15.26	16.70
	DFT-s-OFDM 16QAM	1	1	15.16	15.13	15.20	16.70
		1	76	15.26	15.25	15.24	16.70
		36	18	15.41	15.28	15.33	16.70
	DFT-s-OFDM 64QAM	1	1	15.42	15.32	15.37	16.70
		1	76	15.41	15.34	15.37	16.70
		36	18	15.33	15.29	15.34	16.70
	DFT-s-OFDM 256QAM	1	1	15.12	14.99	15.05	16.70
		1	76	15.29	15.07	15.21	16.70
		36	18	15.34	15.26	15.30	16.70
	CP-OFDM QPSK	1	1	15.13	15.02	15.07	16.70
	CP-OFDM 16QAM	1	1	15.19	15.11	15.16	16.70
	CP-OFDM 64QAM	1	1	15.41	15.34	15.37	16.70
	CP-OFDM 256QAM	1	1	15.05	15.01	15.06	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	15.28	15.22	15.21	16.70
		1	104	15.26	15.19	15.23	16.70
		50	25	15.37	15.24	15.34	16.70
		100	0	15.29	15.25	15.27	16.70
	DFT-s-OFDM QPSK	1	1	15.26	15.25	15.48	16.70
		1	104	15.50	15.22	15.00	16.70
		50	25	15.19	15.41	15.18	16.70
		100	0	15.21	15.26	15.23	16.70
	DFT-s-OFDM 16QAM	1	1	15.16	15.11	15.17	16.70
		1	104	15.23	15.23	15.20	16.70

		50	25	15.39	15.24	15.30	16.70
	DFT-s-OFDM 64QAM	1	1	15.39	15.27	15.33	16.70
		1	104	15.38	15.29	15.33	16.70
		50	25	15.31	15.25	15.29	16.70
	DFT-s-OFDM 256QAM	1	1	15.09	14.99	15.02	16.70
		1	104	15.26	15.09	15.18	16.70
		50	25	15.35	15.24	15.26	16.70
	CP-OFDM QPSK	1	1	15.11	14.98	15.08	16.70
	CP-OFDM 16QAM	1	1	15.16	15.06	15.12	16.70
	CP-OFDM 64QAM	1	1	15.38	15.29	15.33	16.70
	CP-OFDM 256QAM	1	1	15.03	14.97	15.01	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	15.30	15.23	15.24	16.70
		1	131	15.29	15.24	15.27	16.70
		64	32	15.39	15.28	15.37	16.70
		128	0	15.32	15.30	15.31	16.70
	DFT-s-OFDM QPSK	1	1	15.29	15.30	15.52	16.70
		1	131	15.52	15.26	15.05	16.70
		64	32	15.23	15.43	15.22	16.70
		128	0	15.25	15.29	15.25	16.70
	DFT-s-OFDM 16QAM	1	1	15.20	15.15	15.20	16.70
		1	131	15.26	15.25	15.23	16.70
		64	32	15.42	15.29	15.34	16.70
	DFT-s-OFDM 64QAM	1	1	15.41	15.31	15.36	16.70
		1	131	15.41	15.34	15.37	16.70
		64	32	15.34	15.30	15.33	16.70
	DFT-s-OFDM 256QAM	1	1	15.11	14.98	15.04	16.70
		1	131	15.29	15.09	15.21	16.70
		64	32	15.34	15.26	15.29	16.70
	CP-OFDM QPSK	1	1	15.14	15.03	15.08	16.70
	CP-OFDM 16QAM	1	1	15.18	15.10	15.15	16.70
	CP-OFDM 64QAM	1	1	15.41	15.34	15.37	16.70
	CP-OFDM 256QAM	1	1	15.06	15.02	15.05	16.70

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	15.29	15.19	15.22	16.70
		1	160	15.27	15.23	15.24	16.70
		81	40	15.36	15.23	15.33	16.70
		162	0	15.30	15.26	15.28	16.70
	DFT-s-OFDM QPSK	1	1	15.26	15.25	15.48	16.70
		1	160	15.49	15.23	15.01	16.70
		81	40	15.21	15.39	15.17	16.70
		162	0	15.23	15.27	15.23	16.70
	DFT-s-OFDM 16QAM	1	1	15.18	15.12	15.18	16.70
		1	160	15.24	15.21	15.20	16.70
		81	40	15.39	15.27	15.31	16.70
	DFT-s-OFDM 64QAM	1	1	15.38	15.26	15.32	16.70
		1	160	15.39	15.30	15.34	16.70
		81	40	15.31	15.25	15.29	16.70
	DFT-s-OFDM 256QAM	1	1	15.06	14.96	15.02	16.70
		1	160	15.27	15.06	15.19	16.70
		81	40	15.35	15.25	15.30	16.70
	CP-OFDM QPSK	1	1	15.13	15.05	15.09	16.70
	CP-OFDM 16QAM	1	1	15.16	15.07	15.14	16.70
	CP-OFDM 64QAM	1	1	15.39	15.30	15.34	16.70
	CP-OFDM 256QAM	1	1	15.03	14.97	15.01	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	15.26	15.15	15.19	16.70
		1	215	15.26	15.19	15.22	16.70
		108	54	15.34	15.22	15.30	16.70
		216	0	15.27	15.21	15.24	16.70
	DFT-s-OFDM QPSK	1	1	15.24	15.21	15.45	16.70
		1	215	15.46	15.18	14.97	16.70
		108	54	15.18	15.34	15.13	16.70
		216	0	15.20	15.23	15.18	16.70
	DFT-s-OFDM 16QAM	1	1	15.15	15.10	15.14	16.70
		1	215	15.21	15.18	15.18	16.70
		108	54	15.36	15.23	15.28	16.70
	DFT-s-OFDM 64QAM	1	1	15.35	15.24	15.29	16.70
		1	215	15.36	15.25	15.30	16.70
		108	54	15.29	15.21	15.26	16.70

	DFT-s-OFDM 256QAM	1	1	15.04	14.92	14.97	16.70
		1	215	15.23	15.04	15.15	16.70
		108	54	15.29	15.19	15.24	16.70
	CP-OFDM QPSK	1	1	15.08	14.97	15.02	16.70
	CP-OFDM 16QAM	1	1	15.12	15.03	15.08	16.70
	CP-OFDM 64QAM	1	1	15.36	15.25	15.30	16.70
	CP-OFDM 256QAM	1	1	15.01	14.93	14.98	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	15.23	15.13	15.15	16.70
		1	243	15.24	15.15	15.19	16.70
		120	60	15.31	15.17	15.26	16.70
		243	0	15.24	15.16	15.20	16.70
	DFT-s-OFDM QPSK	1	1	15.22	15.17	15.40	16.70
		1	243	15.44	15.16	14.93	16.70
		120	60	15.18	15.33	15.11	16.70
		243	0	15.20	15.19	15.15	16.70
	DFT-s-OFDM 16QAM	1	1	15.15	15.08	15.11	16.70
		1	243	15.18	15.16	15.14	16.70
		120	60	15.34	15.19	15.25	16.70
	DFT-s-OFDM 64QAM	1	1	15.32	15.19	15.25	16.70
		1	243	15.33	15.20	15.26	16.70
		120	60	15.27	15.17	15.21	16.70
	DFT-s-OFDM 256QAM	1	1	15.01	14.92	14.94	16.70
		1	243	15.20	15.06	15.12	16.70
		120	60	15.30	15.17	15.20	16.70
	CP-OFDM QPSK	1	1	15.06	14.93	15.03	16.70
	CP-OFDM 16QAM	1	1	15.09	14.98	15.04	16.70
	CP-OFDM 64QAM	1	1	15.33	15.20	15.26	16.70
	CP-OFDM 256QAM	1	1	14.99	14.89	14.93	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	15.21	15.06	15.13	16.70
		1	271	15.24	15.15	15.18	16.70
		135	67	15.28	15.15	15.22	16.70

		270	0	15.22	15.12	15.17	16.70
	DFT-s-OFDM QPSK	1	1	15.20	15.13	15.37	16.70
		1	271	15.40	15.12	14.90	16.70
		135	67	15.17	15.26	15.06	16.70
		270	0	15.19	15.16	15.10	16.70
	DFT-s-OFDM 16QAM	1	1	15.14	15.07	15.08	16.70
		1	271	15.16	15.11	15.12	16.70
		135	67	15.31	15.18	15.23	16.70
	DFT-s-OFDM 64QAM	1	1	15.28	15.16	15.21	16.70
		1	271	15.31	15.16	15.23	16.70
		135	67	15.25	15.13	15.18	16.70
	DFT-s-OFDM 256QAM	1	1	14.96	14.85	14.89	16.70
		1	271	15.17	15.01	15.09	16.70
		135	67	15.24	15.12	15.18	16.70
	CP-OFDM QPSK	1	1	15.03	14.92	14.97	16.70
	CP-OFDM 16QAM	1	1	15.05	14.95	15.00	16.70
	CP-OFDM 64QAM	1	1	15.31	15.16	15.23	16.70
	CP-OFDM 256QAM	1	1	14.97	14.85	14.90	16.70

NR n41 PC2							
Receiver on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	21.22	21.25	21.19	22.20
		1	49	21.13	21.10	21.12	22.20
		25	12	20.99	20.94	21.01	22.20
		50	0	21.02	21.00	21.00	22.20
	DFT-s-OFDM QPSK	1	1	21.02	20.77	20.95	22.20
		1	49	20.85	21.02	20.99	22.20
		25	12	20.76	20.92	21.08	22.20
		50	0	20.69	20.65	20.95	22.20
	DFT-s-OFDM 16QAM	1	1	20.93	20.82	20.87	22.20
		1	49	21.01	21.02	20.97	22.20
		25	12	21.30	21.18	21.22	22.20
	DFT-s-OFDM 64QAM	1	1	20.81	20.70	20.73	22.20
		1	49	21.07	21.03	21.02	22.20
		25	12	20.87	20.83	20.84	22.20
	DFT-s-OFDM 256QAM	1	1	19.98	19.90	19.90	21.00
		1	49	20.26	20.19	20.19	21.00

		25	12	19.75	19.72	19.68	21.00
	CP-OFDM QPSK	1	1	20.72	20.61	20.68	22.20
	CP-OFDM 16QAM	1	1	20.72	20.64	20.68	22.20
	CP-OFDM 64QAM	1	1	20.69	20.63	20.64	22.00
	CP-OFDM 256QAM	1	1	17.22	17.17	17.16	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	21.18	21.17	21.14	22.20
		1	76	21.10	21.05	21.07	22.20
		36	18	20.94	20.88	20.94	22.20
		75	0	20.97	20.91	20.93	22.20
	DFT-s-OFDM QPSK	1	1	20.97	20.68	20.88	22.20
		1	76	20.79	20.94	20.91	22.20
		36	18	20.71	20.83	20.99	22.20
		75	0	20.64	20.59	20.88	22.20
	DFT-s-OFDM 16QAM	1	1	20.88	20.77	20.81	22.20
		1	76	20.96	20.95	20.92	22.20
		36	18	21.24	21.12	21.16	22.20
	DFT-s-OFDM 64QAM	1	1	20.75	20.63	20.66	22.20
		1	76	21.02	20.94	20.95	22.20
		36	18	20.82	20.74	20.77	22.20
	DFT-s-OFDM 256QAM	1	1	19.91	19.84	19.83	21.00
		1	76	20.20	20.14	20.13	21.00
		36	18	19.70	19.65	19.63	21.00
	CP-OFDM QPSK	1	1	20.66	20.55	20.62	22.20
	CP-OFDM 16QAM	1	1	20.66	20.57	20.61	22.20
	CP-OFDM 64QAM	1	1	20.64	20.54	20.57	22.00
	CP-OFDM 256QAM	1	1	17.17	17.08	17.09	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	21.20	21.24	21.16	22.20
		1	104	21.10	21.05	21.08	22.20
		50	25	20.97	20.90	20.98	22.20
		100	0	20.99	20.95	20.96	22.20
	DFT-s-OFDM	1	1	20.99	20.72	20.91	22.20

	QPSK	1	104	20.83	20.98	20.94	22.20
		50	25	20.72	20.90	21.04	22.20
		100	0	20.65	20.62	20.93	22.20
	DFT-s-OFDM 16QAM	1	1	20.89	20.78	20.84	22.20
		1	104	20.98	21.00	20.94	22.20
		50	25	21.27	21.13	21.18	22.20
	DFT-s-OFDM 64QAM	1	1	20.79	20.66	20.70	22.20
		1	104	21.04	20.98	20.98	22.20
		50	25	20.84	20.78	20.80	22.20
	DFT-s-OFDM 256QAM	1	1	19.96	19.91	19.88	21.00
		1	104	20.23	20.19	20.16	21.00
		50	25	19.76	19.70	19.65	21.00
	CP-OFDM QPSK	1	1	20.69	20.56	20.68	22.20
	CP-OFDM 16QAM	1	1	20.70	20.60	20.65	22.20
	CP-OFDM 64QAM	1	1	20.66	20.58	20.60	22.00
	CP-OFDM 256QAM	1	1	17.19	17.12	17.12	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	21.20	21.18	21.17	22.20
		1	131	21.13	21.10	21.11	22.20
		64	32	20.96	20.92	20.97	22.20
		128	0	21.00	20.96	20.97	22.20
	DFT-s-OFDM QPSK	1	1	21.00	20.73	20.92	22.20
		1	131	20.81	20.98	20.96	22.20
		64	32	20.75	20.85	21.03	22.20
		128	0	20.68	20.62	20.90	22.20
	DFT-s-OFDM 16QAM	1	1	20.92	20.81	20.84	22.20
		1	131	20.99	20.97	20.95	22.20
		64	32	21.27	21.17	21.20	22.20
	DFT-s-OFDM 64QAM	1	1	20.77	20.67	20.69	22.20
		1	131	21.05	20.99	20.99	22.20
		64	32	20.85	20.79	20.81	22.20
	DFT-s-OFDM 256QAM	1	1	19.93	19.83	19.85	21.00
		1	131	20.23	20.14	20.16	21.00
		64	32	19.69	19.67	19.66	21.00
	CP-OFDM QPSK	1	1	20.69	20.60	20.62	22.20
	CP-OFDM 16QAM	1	1	20.68	20.61	20.64	22.20

	CP-OFDM 64QAM	1	1	20.67	20.59	20.61	22.00
	CP-OFDM 256QAM	1	1	17.20	17.13	17.13	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	21.19	21.14	21.15	22.20
		1	160	21.11	21.09	21.08	22.20
		81	40	20.93	20.87	20.93	22.20
		162	0	20.98	20.92	20.94	22.20
	DFT-s-OFDM QPSK	1	1	20.97	20.68	20.88	22.20
		1	160	20.78	20.95	20.92	22.20
		81	40	20.73	20.81	20.98	22.20
		162	0	20.66	20.60	20.88	22.20
	DFT-s-OFDM 16QAM	1	1	20.90	20.78	20.82	22.20
		1	160	20.97	20.93	20.92	22.20
		81	40	21.24	21.15	21.17	22.20
	DFT-s-OFDM 64QAM	1	1	20.74	20.62	20.65	22.20
		1	160	21.03	20.95	20.96	22.20
		81	40	20.82	20.74	20.77	22.20
	DFT-s-OFDM 256QAM	1	1	19.88	19.81	19.83	21.00
		1	160	20.21	20.11	20.14	21.00
		81	40	19.70	19.66	19.67	21.00
	CP-OFDM QPSK	1	1	20.68	20.62	20.63	22.20
	CP-OFDM 16QAM	1	1	20.66	20.58	20.63	22.20
	CP-OFDM 64QAM	1	1	20.65	20.55	20.58	22.00
	CP-OFDM 256QAM	1	1	17.17	17.08	17.09	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	21.26	21.30	21.23	22.20
		1	215	21.13	21.13	21.13	22.20
		108	54	21.02	20.96	21.05	22.20
		216	0	21.05	21.05	21.04	22.20
	DFT-s-OFDM QPSK	1	1	21.03	20.80	20.99	22.20
		1	215	20.88	21.05	21.02	22.20
		108	54	20.75	20.96	21.10	22.20
		216	0	20.68	20.70	21.01	22.20
	DFT-s-OFDM 16QAM	1	1	20.92	20.82	20.91	22.20
		1	215	21.04	21.05	21.00	22.20

		108	54	21.32	21.21	21.24	22.20
	DFT-s-OFDM 64QAM	1	1	20.85	20.73	20.77	22.20
		1	215	21.10	21.08	21.06	22.20
		108	54	20.88	20.86	20.88	22.20
	DFT-s-OFDM 256QAM	1	1	20.01	19.95	19.96	21.00
		1	215	20.30	20.19	20.23	21.00
		108	54	19.81	19.78	19.75	21.00
	CP-OFDM QPSK	1	1	20.76	20.68	20.74	22.20
	CP-OFDM 16QAM	1	1	20.77	20.69	20.75	22.20
	CP-OFDM 64QAM	1	1	20.72	20.68	20.68	22.00
	CP-OFDM 256QAM	1	1	17.23	17.20	17.20	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	21.23	21.26	21.20	22.20
		1	243	21.12	21.09	21.11	22.20
		120	60	21.00	20.95	21.02	22.20
		243	0	21.02	21.00	21.00	22.20
	DFT-s-OFDM QPSK	1	1	21.01	20.76	20.96	22.20
		1	243	20.85	21.00	20.98	22.20
		120	60	20.72	20.91	21.06	22.20
		243	0	20.65	20.66	20.96	22.20
	DFT-s-OFDM 16QAM	1	1	20.89	20.80	20.87	22.20
		1	243	21.01	21.02	20.98	22.20
		120	60	21.29	21.17	21.21	22.20
	DFT-s-OFDM 64QAM	1	1	20.82	20.71	20.74	22.20
		1	243	21.07	21.03	21.02	22.20
		120	60	20.86	20.82	20.85	22.20
	DFT-s-OFDM 256QAM	1	1	19.99	19.91	19.91	21.00
		1	243	20.26	20.17	20.19	21.00
		120	60	19.75	19.72	19.69	21.00
	CP-OFDM QPSK	1	1	20.71	20.60	20.67	22.20
	CP-OFDM 16QAM	1	1	20.73	20.65	20.69	22.20
	CP-OFDM 64QAM	1	1	20.69	20.63	20.64	22.00
	CP-OFDM 256QAM	1	1	17.21	17.16	17.17	19.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	21.16	21.10	21.12	22.20
		1	271	21.10	21.05	21.06	22.20
		135	67	20.91	20.86	20.90	22.20
		270	0	20.95	20.87	20.90	22.20
	DFT-s-OFDM QPSK	1	1	20.95	20.64	20.85	22.20
		1	271	20.75	20.90	20.88	22.20
		135	67	20.70	20.76	20.94	22.20
		270	0	20.63	20.56	20.83	22.20
	DFT-s-OFDM 16QAM	1	1	20.87	20.76	20.78	22.20
		1	271	20.94	20.90	20.90	22.20
		135	67	21.21	21.11	21.14	22.20
	DFT-s-OFDM 64QAM	1	1	20.71	20.60	20.62	22.20
		1	271	21.00	20.90	20.92	22.20
		135	67	20.80	20.70	20.74	22.20
	DFT-s-OFDM 256QAM	1	1	19.86	19.77	19.78	21.00
		1	271	20.17	20.09	20.10	21.00
		135	67	19.64	19.60	19.61	21.00
	CP-OFDM QPSK	1	1	20.63	20.54	20.56	22.20
	CP-OFDM 16QAM	1	1	20.62	20.54	20.57	22.20
	CP-OFDM 64QAM	1	1	20.62	20.50	20.54	22.00
	CP-OFDM 256QAM	1	1	17.15	17.04	17.06	19.00

NR n41 PC2							
Receiver off-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	19.01	19.06	19.04	20.40
		1	49	19.15	19.13	19.18	20.40
		25	12	18.99	18.98	19.05	20.40
		50	0	19.00	19.01	19.05	20.40
	DFT-s-OFDM QPSK	1	1	19.15	18.72	18.99	20.40
		1	49	19.13	18.98	19.04	20.40
		25	12	18.87	18.96	19.05	20.40
		50	0	18.82	18.90	19.09	20.40
	DFT-s-OFDM 16QAM	1	1	19.22	19.12	19.24	20.40
		1	49	19.25	19.22	19.21	20.40
		25	12	18.98	18.82	18.90	20.40

	DFT-s-OFDM 64QAM	1	1	19.03	18.91	18.97	20.40
		1	49	19.31	19.22	19.27	20.40
		25	12	19.03	18.92	19.00	20.40
	DFT-s-OFDM 256QAM	1	1	19.01	18.85	18.92	20.40
		1	49	19.08	18.93	19.01	20.40
		25	12	18.91	18.83	18.82	20.40
	CP-OFDM QPSK	1	1	18.84	18.70	18.82	20.40
	CP-OFDM 16QAM	1	1	18.93	18.82	18.88	20.40
	CP-OFDM 64QAM	1	1	18.98	18.89	18.94	20.40
	CP-OFDM 256QAM	1	1	17.27	17.17	17.25	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	19.03	19.07	19.07	20.40
		1	76	19.18	19.18	19.22	20.40
		36	18	19.01	19.02	19.08	20.40
		75	0	19.03	19.06	19.09	20.40
	DFT-s-OFDM QPSK	1	1	19.18	18.77	19.03	20.40
		1	76	19.15	19.02	19.09	20.40
		36	18	18.91	18.98	19.09	20.40
		75	0	18.86	18.93	19.11	20.40
	DFT-s-OFDM 16QAM	1	1	19.26	19.16	19.27	20.40
		1	76	19.28	19.24	19.24	20.40
		36	18	19.01	18.87	18.94	20.40
	DFT-s-OFDM 64QAM	1	1	19.05	18.95	19.00	20.40
		1	76	19.34	19.27	19.31	20.40
		36	18	19.06	18.97	19.04	20.40
	DFT-s-OFDM 256QAM	1	1	19.03	18.84	18.94	20.40
		1	76	19.11	18.93	19.04	20.40
		36	18	18.90	18.85	18.85	20.40
	CP-OFDM QPSK	1	1	18.87	18.75	18.82	20.40
	CP-OFDM 16QAM	1	1	18.95	18.86	18.91	20.40
	CP-OFDM 64QAM	1	1	19.01	18.94	18.98	20.40
	CP-OFDM 256QAM	1	1	17.30	17.22	17.29	19.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	19.02	19.03	19.05	20.40
		1	104	19.16	19.17	19.19	20.40
		50	25	18.98	18.97	19.04	20.40
		100	0	19.01	19.02	19.06	20.40
	DFT-s-OFDM QPSK	1	1	19.15	18.72	18.99	20.40
		1	104	19.12	18.99	19.05	20.40
		50	25	18.89	18.94	19.04	20.40
		100	0	18.84	18.91	19.09	20.40
	DFT-s-OFDM 16QAM	1	1	19.24	19.13	19.25	20.40
		1	104	19.26	19.20	19.21	20.40
		50	25	18.98	18.85	18.91	20.40
	DFT-s-OFDM 64QAM	1	1	19.02	18.90	18.96	20.40
		1	104	19.32	19.23	19.28	20.40
		50	25	19.03	18.92	19.00	20.40
	DFT-s-OFDM 256QAM	1	1	18.98	18.82	18.92	20.40
		1	104	19.09	18.90	19.02	20.40
		50	25	18.91	18.84	18.86	20.40
	CP-OFDM QPSK	1	1	18.86	18.77	18.83	20.40
	CP-OFDM 16QAM	1	1	18.93	18.83	18.90	20.40
	CP-OFDM 64QAM	1	1	18.99	18.90	18.95	20.40
	CP-OFDM 256QAM	1	1	17.27	17.17	17.25	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	18.99	18.99	19.02	20.40
		1	131	19.15	19.13	19.17	20.40
		64	32	18.96	18.96	19.01	20.40
		128	0	18.98	18.97	19.02	20.40
	DFT-s-OFDM QPSK	1	1	19.13	18.68	18.96	20.40
		1	131	19.09	18.94	19.01	20.40
		64	32	18.86	18.89	19.00	20.40
		128	0	18.81	18.87	19.04	20.40
	DFT-s-OFDM 16QAM	1	1	19.21	19.11	19.21	20.40
		1	131	19.23	19.17	19.19	20.40
		64	32	18.95	18.81	18.88	20.40
	DFT-s-OFDM 64QAM	1	1	18.99	18.88	18.93	20.40
		1	131	19.29	19.18	19.24	20.40
		64	32	19.01	18.88	18.97	20.40

	DFT-s-OFDM 256QAM	1	1	18.96	18.78	18.87	20.40
		1	131	19.05	18.88	18.98	20.40
		64	32	18.85	18.78	18.80	20.40
	CP-OFDM QPSK	1	1	18.81	18.69	18.76	20.40
	CP-OFDM 16QAM	1	1	18.89	18.79	18.84	20.40
	CP-OFDM 64QAM	1	1	18.96	18.85	18.91	20.40
	CP-OFDM 256QAM	1	1	17.25	17.13	17.22	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	18.96	18.97	18.98	20.40
		1	160	19.13	19.09	19.14	20.40
		81	40	18.93	18.91	18.97	20.40
		162	0	18.95	18.92	18.98	20.40
	DFT-s-OFDM QPSK	1	1	19.11	18.64	18.91	20.40
		1	160	19.07	18.92	18.97	20.40
		81	40	18.86	18.88	18.98	20.40
		162	0	18.81	18.83	19.01	20.40
	DFT-s-OFDM 16QAM	1	1	19.21	19.09	19.18	20.40
		1	160	19.20	19.15	19.15	20.40
		81	40	18.93	18.77	18.85	20.40
	DFT-s-OFDM 64QAM	1	1	18.96	18.83	18.89	20.40
		1	160	19.26	19.13	19.20	20.40
		81	40	18.99	18.84	18.92	20.40
	DFT-s-OFDM 256QAM	1	1	18.93	18.78	18.84	20.40
		1	160	19.02	18.90	18.95	20.40
		81	40	18.86	18.76	18.76	20.40
	CP-OFDM QPSK	1	1	18.79	18.65	18.77	20.40
	CP-OFDM 16QAM	1	1	18.86	18.74	18.80	20.40
	CP-OFDM 64QAM	1	1	18.93	18.80	18.87	20.40
	CP-OFDM 256QAM	1	1	17.23	17.09	17.17	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	18.98	18.98	19.01	20.40
		1	215	19.16	19.14	19.18	20.40
		108	54	18.95	18.95	19.00	20.40

		216	0	18.98	18.97	19.02	20.40
	DFT-s-OFDM QPSK	1	1	19.14	18.69	18.95	20.40
		1	215	19.09	18.96	19.02	20.40
		108	54	18.90	18.90	19.02	20.40
		216	0	18.85	18.86	19.03	20.40
	DFT-s-OFDM 16QAM	1	1	19.25	19.13	19.21	20.40
		1	215	19.23	19.17	19.18	20.40
		108	54	18.96	18.82	18.89	20.40
	DFT-s-OFDM 64QAM	1	1	18.98	18.87	18.92	20.40
		1	215	19.29	19.18	19.24	20.40
		108	54	19.02	18.89	18.96	20.40
	DFT-s-OFDM 256QAM	1	1	18.95	18.77	18.86	20.40
		1	215	19.05	18.90	18.98	20.40
		108	54	18.85	18.78	18.79	20.40
	CP-OFDM QPSK	1	1	18.82	18.70	18.77	20.40
	CP-OFDM 16QAM	1	1	18.88	18.78	18.83	20.40
	CP-OFDM 64QAM	1	1	18.96	18.85	18.91	20.40
	CP-OFDM 256QAM	1	1	17.26	17.14	17.21	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	18.97	18.94	18.99	20.40
		1	243	19.14	19.13	19.15	20.40
		120	60	18.92	18.90	18.96	20.40
		243	0	18.96	18.93	18.99	20.40
	DFT-s-OFDM QPSK	1	1	19.11	18.64	18.91	20.40
		1	243	19.06	18.93	18.98	20.40
		120	60	18.88	18.86	18.97	20.40
		243	0	18.83	18.84	19.01	20.40
	DFT-s-OFDM 16QAM	1	1	19.23	19.10	19.19	20.40
		1	243	19.21	19.13	19.15	20.40
		120	60	18.93	18.80	18.86	20.40
		243	0	18.93	18.80	18.86	20.40
	DFT-s-OFDM 64QAM	1	1	18.95	18.82	18.88	20.40
		1	243	19.27	19.14	19.21	20.40
		120	60	18.99	18.84	18.92	20.40
		243	0	18.99	18.84	18.92	20.40
	DFT-s-OFDM 256QAM	1	1	18.90	18.75	18.84	20.40
		1	243	19.03	18.87	18.96	20.40
		120	60	18.86	18.77	18.80	20.40
		243	0	18.86	18.77	18.80	20.40
	CP-OFDM QPSK	1	1	18.81	18.72	18.78	20.40

	CP-OFDM 16QAM	1	1	18.86	18.75	18.82	20.40
	CP-OFDM 64QAM	1	1	18.94	18.81	18.88	20.40
	CP-OFDM 256QAM	1	1	17.23	17.09	17.17	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	18.94	18.90	18.96	20.40
		1	271	19.13	19.09	19.13	20.40
		135	67	18.90	18.89	18.93	20.40
		270	0	18.93	18.88	18.95	20.40
	DFT-s-OFDM QPSK	1	1	19.09	18.60	18.88	20.40
		1	271	19.03	18.88	18.94	20.40
		135	67	18.85	18.81	18.93	20.40
		270	0	18.80	18.80	18.96	20.40
	DFT-s-OFDM 16QAM	1	1	19.20	19.08	19.15	20.40
		1	271	19.18	19.10	19.13	20.40
		135	67	18.90	18.76	18.83	20.40
	DFT-s-OFDM 64QAM	1	1	18.92	18.80	18.85	20.40
		1	271	19.24	19.09	19.17	20.40
		135	67	18.97	18.80	18.89	20.40
	DFT-s-OFDM 256QAM	1	1	18.88	18.71	18.79	20.40
		1	271	18.99	18.85	18.92	20.40
		135	67	18.80	18.71	18.74	20.40
	CP-OFDM QPSK	1	1	18.76	18.64	18.71	20.40
	CP-OFDM 16QAM	1	1	18.82	18.71	18.76	20.40
	CP-OFDM 64QAM	1	1	18.91	18.76	18.84	20.40
	CP-OFDM 256QAM	1	1	17.21	17.05	17.14	19.00

NR n41 PC2							
Hotspot on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	14.12	14.14	14.13	15.50
		1	49	14.34	14.34	14.37	15.50
		25	12	14.22	14.17	14.21	15.50
		50	0	14.15	14.16	14.14	15.50
	DFT-s-OFDM	1	1	14.03	14.06	14.22	15.50

	QPSK	1	49	14.19	14.26	14.47	15.50
		25	12	13.89	14.14	14.26	15.50
		50	0	13.97	14.15	14.25	15.50
	DFT-s-OFDM 16QAM	1	1	13.92	13.96	14.09	15.50
		1	49	14.23	14.29	14.28	15.50
		25	12	14.13	14.26	14.20	15.50
	DFT-s-OFDM 64QAM	1	1	14.11	14.16	14.18	15.50
		1	49	14.17	14.18	14.29	15.50
		25	12	14.15	14.43	14.32	15.50
	DFT-s-OFDM 256QAM	1	1	14.14	14.02	14.16	15.50
		1	49	14.32	14.19	14.16	15.50
		25	12	14.32	14.14	14.36	15.50
	CP-OFDM QPSK	1	1	14.19	14.05	14.40	15.50
	CP-OFDM 16QAM	1	1	14.23	14.21	14.32	15.50
	CP-OFDM 64QAM	1	1	14.45	14.21	14.31	15.50
	CP-OFDM 256QAM	1	1	14.25	13.97	14.58	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	14.09	14.12	14.09	15.50
		1	76	14.32	14.30	14.34	15.50
		36	18	14.19	14.12	14.17	15.50
		75	0	14.12	14.11	14.10	15.50
	DFT-s-OFDM QPSK	1	1	14.01	14.02	14.17	15.50
		1	76	14.17	14.24	14.43	15.50
		36	18	13.89	14.13	14.24	15.50
		75	0	13.97	14.11	14.22	15.50
	DFT-s-OFDM 16QAM	1	1	13.92	13.94	14.06	15.50
		1	76	14.20	14.27	14.24	15.50
		36	18	14.11	14.22	14.17	15.50
	DFT-s-OFDM 64QAM	1	1	14.08	14.11	14.14	15.50
		1	76	14.14	14.13	14.25	15.50
		36	18	14.13	14.39	14.27	15.50
	DFT-s-OFDM 256QAM	1	1	14.11	14.02	14.13	15.50
		1	76	14.29	14.21	14.13	15.50
		36	18	14.33	14.12	14.32	15.50
	CP-OFDM QPSK	1	1	14.17	14.01	14.41	15.50
	CP-OFDM 16QAM	1	1	14.20	14.16	14.28	15.50

	CP-OFDM 64QAM	1	1	14.42	14.16	14.27	15.50
	CP-OFDM 256QAM	1	1	14.23	13.93	14.53	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	14.11	14.13	14.12	15.50
		1	104	14.35	14.35	14.38	15.50
		50	25	14.21	14.16	14.20	15.50
		100	0	14.15	14.16	14.14	15.50
	DFT-s-OFDM QPSK	1	1	14.04	14.07	14.21	15.50
		1	104	14.19	14.28	14.48	15.50
		50	25	13.93	14.15	14.28	15.50
		100	0	14.01	14.14	14.24	15.50
	DFT-s-OFDM 16QAM	1	1	13.96	13.98	14.09	15.50
		1	104	14.23	14.29	14.27	15.50
		50	25	14.14	14.27	14.21	15.50
	DFT-s-OFDM 64QAM	1	1	14.10	14.15	14.17	15.50
		1	104	14.17	14.18	14.29	15.50
		50	25	14.16	14.44	14.31	15.50
	DFT-s-OFDM 256QAM	1	1	14.13	14.01	14.15	15.50
		1	104	14.32	14.21	14.16	15.50
		50	25	14.32	14.14	14.35	15.50
	CP-OFDM QPSK	1	1	14.20	14.06	14.41	15.50
	CP-OFDM 16QAM	1	1	14.22	14.20	14.31	15.50
	CP-OFDM 64QAM	1	1	14.45	14.21	14.31	15.50
	CP-OFDM 256QAM	1	1	14.26	13.98	14.57	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	14.10	14.09	14.10	15.50
		1	131	14.33	14.34	14.35	15.50
		64	32	14.18	14.11	14.16	15.50
		128	0	14.13	14.12	14.11	15.50
	DFT-s-OFDM QPSK	1	1	14.01	14.02	14.17	15.50
		1	131	14.16	14.25	14.44	15.50
		64	32	13.91	14.11	14.23	15.50
		128	0	13.99	14.12	14.22	15.50
	DFT-s-OFDM 16QAM	1	1	13.94	13.95	14.07	15.50
		1	131	14.21	14.25	14.24	15.50

		64	32	14.11	14.25	14.18	15.50
	DFT-s-OFDM 64QAM	1	1	14.07	14.10	14.13	15.50
		1	131	14.15	14.14	14.26	15.50
		64	32	14.13	14.39	14.27	15.50
	DFT-s-OFDM 256QAM	1	1	14.08	13.99	14.13	15.50
		1	131	14.30	14.18	14.14	15.50
		64	32	14.33	14.13	14.36	15.50
	CP-OFDM QPSK	1	1	14.19	14.08	14.42	15.50
	CP-OFDM 16QAM	1	1	14.20	14.17	14.30	15.50
	CP-OFDM 64QAM	1	1	14.43	14.17	14.28	15.50
	CP-OFDM 256QAM	1	1	14.23	13.93	14.53	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	14.07	14.05	14.07	15.50
		1	160	14.32	14.30	14.33	15.50
		81	40	14.16	14.10	14.13	15.50
		162	0	14.10	14.07	14.07	15.50
	DFT-s-OFDM QPSK	1	1	13.99	13.98	14.14	15.50
		1	160	14.13	14.20	14.40	15.50
		81	40	13.88	14.06	14.19	15.50
		162	0	13.96	14.08	14.17	15.50
	DFT-s-OFDM 16QAM	1	1	13.91	13.93	14.03	15.50
		1	160	14.18	14.22	14.22	15.50
		81	40	14.08	14.21	14.15	15.50
	DFT-s-OFDM 64QAM	1	1	14.04	14.08	14.10	15.50
		1	160	14.12	14.09	14.22	15.50
		81	40	14.11	14.35	14.24	15.50
	DFT-s-OFDM 256QAM	1	1	14.06	13.95	14.08	15.50
		1	160	14.26	14.16	14.10	15.50
		81	40	14.27	14.07	14.30	15.50
	CP-OFDM QPSK	1	1	14.14	14.00	14.35	15.50
	CP-OFDM 16QAM	1	1	14.16	14.13	14.24	15.50
	CP-OFDM 64QAM	1	1	14.40	14.12	14.24	15.50
	CP-OFDM 256QAM	1	1	14.21	13.89	14.50	15.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	14.04	14.03	14.03	15.50
		1	215	14.30	14.26	14.30	15.50
		108	54	14.13	14.05	14.09	15.50
		216	0	14.07	14.02	14.03	15.50
	DFT-s-OFDM QPSK	1	1	13.97	13.94	14.09	15.50
		1	215	14.11	14.18	14.36	15.50
		108	54	13.88	14.05	14.17	15.50
		216	0	13.96	14.04	14.14	15.50
	DFT-s-OFDM 16QAM	1	1	13.91	13.91	14.00	15.50
		1	215	14.15	14.20	14.18	15.50
		108	54	14.06	14.17	14.12	15.50
	DFT-s-OFDM 64QAM	1	1	14.01	14.03	14.06	15.50
		1	215	14.09	14.04	14.18	15.50
		108	54	14.09	14.31	14.19	15.50
	DFT-s-OFDM 256QAM	1	1	14.03	13.95	14.05	15.50
		1	215	14.23	14.18	14.07	15.50
		108	54	14.28	14.05	14.26	15.50
	CP-OFDM QPSK	1	1	14.12	13.96	14.36	15.50
	CP-OFDM 16QAM	1	1	14.13	14.08	14.20	15.50
	CP-OFDM 64QAM	1	1	14.37	14.07	14.20	15.50
	CP-OFDM 256QAM	1	1	14.19	13.85	14.45	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	14.06	14.04	14.06	15.50
		1	243	14.33	14.31	14.34	15.50
		120	60	14.15	14.09	14.12	15.50
		243	0	14.10	14.07	14.07	15.50
	DFT-s-OFDM QPSK	1	1	14.00	13.99	14.13	15.50
		1	243	14.13	14.22	14.41	15.50
		120	60	13.92	14.07	14.21	15.50
		243	0	14.00	14.07	14.16	15.50
	DFT-s-OFDM 16QAM	1	1	13.95	13.95	14.03	15.50
		1	243	14.18	14.22	14.21	15.50
		120	60	14.09	14.22	14.16	15.50
	DFT-s-OFDM 64QAM	1	1	14.03	14.07	14.09	15.50
		1	243	14.12	14.09	14.22	15.50
		120	60	14.12	14.36	14.23	15.50

	DFT-s-OFDM 256QAM	1	1	14.05	13.94	14.07	15.50
		1	243	14.26	14.18	14.10	15.50
		120	60	14.27	14.07	14.29	15.50
	CP-OFDM QPSK	1	1	14.15	14.01	14.36	15.50
	CP-OFDM 16QAM	1	1	14.15	14.12	14.23	15.50
	CP-OFDM 64QAM	1	1	14.40	14.12	14.24	15.50
	CP-OFDM 256QAM	1	1	14.22	13.90	14.49	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	14.02	13.96	14.01	15.50
		1	271	14.30	14.26	14.29	15.50
		135	67	14.10	14.03	14.05	15.50
		270	0	14.05	13.98	14.00	15.50
	DFT-s-OFDM QPSK	1	1	13.95	13.90	14.06	15.50
		1	271	14.07	14.14	14.33	15.50
		135	67	13.87	13.98	14.12	15.50
		270	0	13.95	14.01	14.09	15.50
	DFT-s-OFDM 16QAM	1	1	13.90	13.90	13.97	15.50
		1	271	14.13	14.15	14.16	15.50
		135	67	14.03	14.16	14.10	15.50
	DFT-s-OFDM 64QAM	1	1	13.97	14.00	14.02	15.50
		1	271	14.07	14.00	14.15	15.50
		135	67	14.07	14.27	14.16	15.50
	DFT-s-OFDM 256QAM	1	1	13.98	13.88	14.00	15.50
		1	271	14.20	14.13	14.04	15.50
		135	67	14.22	14.00	14.24	15.50
	CP-OFDM QPSK	1	1	14.09	13.95	14.30	15.50
	CP-OFDM 16QAM	1	1	14.09	14.05	14.16	15.50
	CP-OFDM 64QAM	1	1	14.35	14.03	14.17	15.50
	CP-OFDM 256QAM	1	1	14.17	13.81	14.42	15.50

NR n41 PC2							
Receiver on-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	22.85	22.82	22.82	24.50
		1	49	22.70	22.65	22.76	24.50
		25	12	22.73	22.75	22.72	24.50
		50	0	22.13	22.12	22.09	24.00
	DFT-s-OFDM QPSK	1	1	23.00	22.59	23.20	24.50
		1	49	22.78	22.57	22.63	24.50
		25	12	22.61	22.59	22.58	24.50
		50	0	21.54	21.55	21.65	23.50
	DFT-s-OFDM 16QAM	1	1	21.87	21.85	21.86	23.50
		1	49	21.84	21.80	21.94	23.50
		25	12	21.52	21.59	21.48	22.50
	DFT-s-OFDM 64QAM	1	1	20.25	20.14	21.47	22.00
		1	49	20.16	20.13	19.93	22.00
		25	12	20.26	20.32	20.27	22.00
	DFT-s-OFDM 256QAM	1	1	18.41	18.36	18.37	20.00
		1	49	18.42	18.47	18.19	20.00
		25	12	18.33	18.36	18.38	20.00
	CP-OFDM QPSK	1	1	21.17	21.17	21.22	23.00
	CP-OFDM 16QAM	1	1	20.33	20.27	20.35	22.50
	CP-OFDM 64QAM	1	1	19.37	19.33	19.38	21.00
	CP-OFDM 256QAM	1	1	16.08	15.99	16.07	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	22.88	22.86	22.85	24.50
		1	76	22.71	22.69	22.78	24.50
		36	18	22.75	22.76	22.75	24.50
		75	0	22.16	22.17	22.13	24.00
	DFT-s-OFDM QPSK	1	1	23.02	22.63	23.23	24.50
		1	76	22.81	22.62	22.67	24.50
		36	18	22.64	22.64	22.62	24.50
		75	0	21.57	21.59	21.70	23.50
	DFT-s-OFDM 16QAM	1	1	21.84	21.83	21.82	23.50
		1	76	21.82	21.76	21.91	23.50
		36	18	21.49	21.54	21.44	22.50

	DFT-s-OFDM 64QAM	1	1	20.22	20.09	21.43	22.00
		1	76	20.14	20.09	19.88	22.00
		36	18	20.24	20.30	20.23	22.00
	DFT-s-OFDM 256QAM	1	1	18.41	18.35	18.35	20.00
		1	76	18.42	18.43	18.16	20.00
		36	18	18.33	18.34	18.35	20.00
	CP-OFDM QPSK	1	1	21.14	21.15	21.18	23.00
	CP-OFDM 16QAM	1	1	20.31	20.23	20.32	22.50
	CP-OFDM 64QAM	1	1	19.34	19.28	19.34	21.00
	CP-OFDM 256QAM	1	1	16.05	15.94	16.03	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	22.87	22.83	22.85	24.50
		1	104	22.73	22.70	22.80	24.50
		50	25	22.75	22.79	22.75	24.50
		100	0	22.16	22.17	22.13	24.00
	DFT-s-OFDM QPSK	1	1	23.03	22.64	23.24	24.50
		1	104	22.80	22.61	22.68	24.50
		50	25	22.65	22.61	22.62	24.50
		100	0	21.58	21.58	21.67	23.50
	DFT-s-OFDM 16QAM	1	1	21.90	21.89	21.89	23.50
		1	104	21.85	21.84	21.96	23.50
		50	25	21.54	21.60	21.51	22.50
	DFT-s-OFDM 64QAM	1	1	20.28	20.19	21.51	22.00
		1	104	20.18	20.17	19.96	22.00
		50	25	20.29	20.37	20.31	22.00
	DFT-s-OFDM 256QAM	1	1	18.44	18.41	18.41	20.00
		1	104	18.45	18.51	18.24	20.00
		50	25	18.36	18.38	18.42	20.00
	CP-OFDM QPSK	1	1	21.20	21.20	21.24	23.00
	CP-OFDM 16QAM	1	1	20.36	20.31	20.38	22.50
	CP-OFDM 64QAM	1	1	19.40	19.35	19.41	21.00
	CP-OFDM 256QAM	1	1	16.11	16.04	16.11	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	22.89	22.90	22.87	24.50
		1	131	22.73	22.70	22.81	24.50
		64	32	22.78	22.81	22.79	24.50
		128	0	22.18	22.21	22.16	24.00
	DFT-s-OFDM QPSK	1	1	23.05	22.68	23.27	24.50
		1	131	22.84	22.65	22.71	24.50
		64	32	22.66	22.68	22.67	24.50
		128	0	21.59	21.61	21.72	23.50
	DFT-s-OFDM 16QAM	1	1	21.86	21.84	21.85	23.50
		1	131	21.85	21.81	21.95	23.50
		64	32	21.51	21.58	21.47	22.50
	DFT-s-OFDM 64QAM	1	1	20.25	20.14	21.47	22.00
		1	131	20.17	20.14	19.92	22.00
		64	32	20.26	20.34	20.28	22.00
	DFT-s-OFDM 256QAM	1	1	18.45	18.37	18.39	20.00
		1	131	18.46	18.46	18.18	20.00
		64	32	18.37	18.38	18.38	20.00
	CP-OFDM QPSK	1	1	21.17	21.17	21.21	23.00
	CP-OFDM 16QAM	1	1	20.34	20.28	20.36	22.50
	CP-OFDM 64QAM	1	1	19.36	19.32	19.37	21.00
	CP-OFDM 256QAM	1	1	16.08	15.99	16.07	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	22.87	22.89	22.84	24.50
		1	160	22.70	22.65	22.77	24.50
		81	40	22.76	22.77	22.76	24.50
		162	0	22.15	22.16	22.12	24.00
	DFT-s-OFDM QPSK	1	1	23.02	22.63	23.23	24.50
		1	160	22.82	22.61	22.66	24.50
		81	40	22.62	22.66	22.63	24.50
		162	0	21.55	21.58	21.70	23.50
	DFT-s-OFDM 16QAM	1	1	21.85	21.80	21.83	23.50
		1	160	21.83	21.80	21.92	23.50
		81	40	21.48	21.53	21.43	22.50
	DFT-s-OFDM 64QAM	1	1	20.23	20.10	21.44	22.00
		1	160	20.14	20.09	19.88	22.00
		81	40	20.23	20.31	20.24	22.00

	DFT-s-OFDM 256QAM	1	1	18.43	18.33	18.34	20.00
		1	160	18.44	18.44	18.16	20.00
		81	40	18.35	18.35	18.36	20.00
	CP-OFDM QPSK	1	1	21.15	21.13	21.18	23.00
	CP-OFDM 16QAM	1	1	20.31	20.26	20.33	22.50
	CP-OFDM 64QAM	1	1	19.33	19.27	19.33	21.00
	CP-OFDM 256QAM	1	1	16.06	15.95	16.04	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	22.86	22.79	22.83	24.50
		1	215	22.71	22.69	22.77	24.50
		108	54	22.72	22.74	22.71	24.50
		216	0	22.14	22.13	22.10	24.00
	DFT-s-OFDM QPSK	1	1	23.00	22.59	23.20	24.50
		1	215	22.77	22.58	22.64	24.50
		108	54	22.63	22.57	22.57	24.50
		216	0	21.56	21.56	21.65	23.50
	DFT-s-OFDM 16QAM	1	1	21.91	21.93	21.91	23.50
		1	215	21.87	21.85	21.99	23.50
		108	54	21.57	21.65	21.55	22.50
	DFT-s-OFDM 64QAM	1	1	20.30	20.23	21.54	22.00
		1	215	20.21	20.22	20.00	22.00
		108	54	20.32	20.40	20.35	22.00
	DFT-s-OFDM 256QAM	1	1	18.46	18.45	18.46	20.00
		1	215	18.47	18.53	18.26	20.00
		108	54	18.38	18.41	18.44	20.00
	CP-OFDM QPSK	1	1	21.22	21.24	21.27	23.00
	CP-OFDM 16QAM	1	1	20.39	20.33	20.41	22.50
	CP-OFDM 64QAM	1	1	19.43	19.40	19.45	21.00
	CP-OFDM 256QAM	1	1	16.13	16.08	16.14	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	22.90	22.91	22.88	24.50
		1	243	22.72	22.69	22.80	24.50
		120	60	22.79	22.82	22.80	24.50

		243	0	22.18	22.21	22.16	24.00
	DFT-s-OFDM QPSK	1	1	23.04	22.67	23.28	24.50
		1	243	22.84	22.63	22.70	24.50
		120	60	22.62	22.67	22.65	24.50
		243	0	21.55	21.62	21.73	23.50
	DFT-s-OFDM 16QAM	1	1	21.89	21.92	21.88	23.50
		1	243	21.84	21.80	21.95	23.50
		120	60	21.55	21.61	21.52	22.50
	DFT-s-OFDM 64QAM	1	1	20.27	20.18	21.50	22.00
		1	243	20.18	20.17	20.02	22.00
		120	60	20.30	20.36	20.30	22.00
	DFT-s-OFDM 256QAM	1	1	18.42	18.43	18.42	20.00
		1	243	18.43	18.50	18.24	20.00
		120	60	18.34	18.37	18.41	20.00
	CP-OFDM QPSK	1	1	21.19	21.22	21.24	23.00
	CP-OFDM 16QAM	1	1	20.36	20.28	20.37	22.50
	CP-OFDM 64QAM	1	1	19.41	19.36	19.42	21.00
	CP-OFDM 256QAM	1	1	16.10	16.03	16.10	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	22.83	22.75	22.80	24.50
		1	271	22.70	22.65	22.75	24.50
		135	67	22.70	22.73	22.68	24.50
		270	0	22.11	22.08	22.06	24.00
	DFT-s-OFDM QPSK	1	1	22.98	22.55	23.17	24.50
		1	271	22.74	22.53	22.60	24.50
		135	67	22.60	22.52	22.53	24.50
		270	0	21.53	21.52	21.60	23.50
	DFT-s-OFDM 16QAM	1	1	21.82	21.76	21.80	23.50
		1	271	21.82	21.76	21.90	23.50
		135	67	21.46	21.52	21.40	22.50
	DFT-s-OFDM 64QAM	1	1	20.20	20.05	21.40	22.00
		1	271	20.12	20.05	19.85	22.00
		135	67	20.20	20.26	20.20	22.00
	DFT-s-OFDM 256QAM	1	1	18.40	18.28	18.30	20.00
		1	271	18.41	18.40	18.11	20.00
		135	67	18.32	18.33	18.32	20.00
	CP-OFDM QPSK	1	1	21.12	21.10	21.16	23.00

	CP-OFDM 16QAM	1	1	20.28	20.22	20.30	22.50
	CP-OFDM 64QAM	1	1	19.30	19.25	19.30	21.00
	CP-OFDM 256QAM	1	1	16.03	15.90	16.00	18.00

NR n41 PC2							
Receiver off-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	20.07	20.07	19.88	21.00
		1	49	19.79	19.64	19.66	21.00
		25	12	20.08	19.60	19.76	21.00
		50	0	19.43	19.54	19.67	21.00
	DFT-s-OFDM QPSK	1	1	19.66	19.51	19.58	21.00
		1	49	19.66	19.38	19.35	21.00
		25	12	19.47	19.45	19.39	21.00
		50	0	19.41	19.42	19.38	21.00
	DFT-s-OFDM 16QAM	1	1	20.39	20.39	20.29	21.00
		1	49	20.14	20.47	20.39	21.00
		25	12	20.24	20.48	20.31	21.00
	DFT-s-OFDM 64QAM	1	1	19.94	20.08	19.91	21.00
		1	49	20.04	20.12	20.12	21.00
		25	12	20.04	20.01	19.91	21.00
	DFT-s-OFDM 256QAM	1	1	18.28	18.28	18.31	20.00
		1	49	18.19	18.24	18.36	20.00
		25	12	18.14	18.10	18.21	20.00
	CP-OFDM QPSK	1	1	20.41	20.53	20.28	21.00
	CP-OFDM 16QAM	1	1	20.54	20.63	20.23	21.00
	CP-OFDM 64QAM	1	1	20.12	20.08	19.86	21.00
	CP-OFDM 256QAM	1	1	16.00	16.16	16.07	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	19.98	19.98	20.16	21.00
		1	76	19.77	19.60	19.63	21.00
		36	18	20.05	19.55	19.72	21.00
		75	0	19.40	19.49	19.63	21.00
	DFT-s-OFDM	1	1	19.64	19.47	19.53	21.00

	QPSK	1	76	19.64	19.36	19.31	21.00
		36	18	19.47	19.44	19.37	21.00
		75	0	19.41	19.38	19.35	21.00
	DFT-s-OFDM 16QAM	1	1	20.36	20.35	20.26	21.00
		1	76	20.13	20.43	20.37	21.00
		36	18	20.22	20.47	20.28	21.00
	DFT-s-OFDM 64QAM	1	1	19.91	20.03	19.87	21.00
		1	76	20.02	20.08	20.09	21.00
		36	18	20.01	19.96	19.87	21.00
	DFT-s-OFDM 256QAM	1	1	18.25	18.23	18.27	20.00
		1	76	18.16	18.20	18.31	20.00
		36	18	18.11	18.08	18.17	20.00
	CP-OFDM QPSK	1	1	20.38	20.50	20.26	21.00
	CP-OFDM 16QAM	1	1	20.51	20.59	20.20	21.00
	CP-OFDM 64QAM	1	1	20.09	20.06	19.83	21.00
	CP-OFDM 256QAM	1	1	15.97	16.11	16.03	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	19.94	19.96	20.12	21.00
		1	104	19.80	19.65	19.67	21.00
		50	25	20.07	19.59	19.75	21.00
		100	0	19.43	19.54	19.67	21.00
	DFT-s-OFDM QPSK	1	1	19.67	19.52	19.57	21.00
		1	104	19.66	19.40	19.36	21.00
		50	25	19.51	19.46	19.41	21.00
		100	0	19.45	19.41	19.37	21.00
	DFT-s-OFDM 16QAM	1	1	20.33	20.33	20.22	21.00
		1	104	20.11	20.39	20.34	21.00
		50	25	20.19	20.42	20.24	21.00
	DFT-s-OFDM 64QAM	1	1	19.88	19.98	19.83	21.00
		1	104	20.00	20.04	20.04	21.00
		50	25	19.99	19.94	19.83	21.00
	DFT-s-OFDM 256QAM	1	1	18.25	18.22	18.25	20.00
		1	104	18.16	18.16	18.28	20.00
		50	25	18.11	18.06	18.14	20.00
	CP-OFDM QPSK	1	1	20.35	20.48	20.22	21.00
	CP-OFDM 16QAM	1	1	20.49	20.55	20.17	21.00

	CP-OFDM 64QAM	1	1	20.06	20.01	19.79	21.00
	CP-OFDM 256QAM	1	1	15.94	16.06	15.99	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2665	
50MHz	DFT-s-OFDM BPSK	1	1	19.91	19.98	20.09	21.00
		1	131	19.80	19.68	19.68	21.00
		64	32	20.10	19.61	19.79	21.00
		128	0	19.46	19.59	19.71	21.00
	DFT-s-OFDM QPSK	1	1	19.68	19.55	19.61	21.00
		1	131	19.69	19.43	19.39	21.00
		64	32	19.50	19.50	19.43	21.00
		128	0	19.44	19.46	19.43	21.00
	DFT-s-OFDM 16QAM	1	1	20.40	20.43	20.31	21.00
		1	131	20.16	20.48	20.42	21.00
		64	32	20.27	20.53	20.35	21.00
	DFT-s-OFDM 64QAM	1	1	19.96	20.12	19.94	21.00
		1	131	20.07	20.17	20.16	21.00
		64	32	20.07	20.04	19.95	21.00
	DFT-s-OFDM 256QAM	1	1	18.30	18.32	18.36	20.00
		1	131	18.21	18.26	18.38	20.00
		64	32	18.16	18.13	18.23	20.00
	CP-OFDM QPSK	1	1	20.43	20.57	20.31	21.00
	CP-OFDM 16QAM	1	1	20.57	20.65	20.26	21.00
	CP-OFDM 64QAM	1	1	20.15	20.13	19.90	21.00
	CP-OFDM 256QAM	1	1	16.02	16.20	16.10	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	20.11	20.15	19.93	21.00
		1	160	19.82	19.69	19.71	21.00
		81	40	20.13	19.66	19.83	21.00
		162	0	19.48	19.63	19.74	21.00
	DFT-s-OFDM QPSK	1	1	19.71	19.60	19.65	21.00
		1	160	19.72	19.46	19.43	21.00
		81	40	19.52	19.54	19.48	21.00
		162	0	19.46	19.48	19.45	21.00
	DFT-s-OFDM 16QAM	1	1	20.35	20.34	20.25	21.00
		1	160	20.14	20.44	20.38	21.00

		81	40	20.21	20.46	20.27	21.00
	DFT-s-OFDM 64QAM	1	1	19.91	20.03	19.87	21.00
		1	160	20.03	20.09	20.08	21.00
		81	40	20.01	19.98	19.88	21.00
		1	1	18.29	18.24	18.29	20.00
	DFT-s-OFDM 256QAM	1	160	18.20	18.19	18.30	20.00
		81	40	18.15	18.10	18.17	20.00
		1	1	20.38	20.50	20.25	21.00
	CP-OFDM 16QAM	1	1	20.52	20.60	20.21	21.00
	CP-OFDM 64QAM	1	1	20.08	20.05	19.82	21.00
	CP-OFDM 256QAM	1	1	15.97	16.11	16.03	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	20.09	20.14	19.90	21.00
		1	215	19.79	19.64	19.67	21.00
		108	54	20.11	19.62	19.80	21.00
		216	0	19.45	19.58	19.70	21.00
	DFT-s-OFDM QPSK	1	1	19.68	19.55	19.61	21.00
		1	215	19.70	19.42	19.38	21.00
		108	54	19.48	19.52	19.44	21.00
		216	0	19.42	19.45	19.43	21.00
	DFT-s-OFDM 16QAM	1	1	20.34	20.30	20.23	21.00
		1	215	20.12	20.43	20.35	21.00
		108	54	20.18	20.41	20.23	21.00
	DFT-s-OFDM 64QAM	1	1	19.89	19.99	19.84	21.00
		1	215	20.00	20.04	20.04	21.00
		108	54	19.98	19.95	19.84	21.00
	DFT-s-OFDM 256QAM	1	1	18.27	18.20	18.24	20.00
		1	215	18.18	18.17	18.28	20.00
		108	54	18.13	18.07	18.15	20.00
	CP-OFDM QPSK	1	1	20.36	20.46	20.22	21.00
	CP-OFDM 16QAM	1	1	20.49	20.58	20.18	21.00
	CP-OFDM 64QAM	1	1	20.05	20.00	19.78	21.00
	CP-OFDM 256QAM	1	1	15.95	16.07	16.00	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	20.05	20.02	19.85	21.00
		1	243	19.78	19.64	19.64	21.00
		120	60	20.04	19.54	19.71	21.00
		243	0	19.41	19.50	19.64	21.00
	DFT-s-OFDM QPSK	1	1	19.64	19.47	19.53	21.00
		1	243	19.63	19.37	19.32	21.00
		120	60	19.49	19.42	19.36	21.00
		243	0	19.43	19.39	19.35	21.00
	DFT-s-OFDM 16QAM	1	1	20.38	20.42	20.28	21.00
		1	243	20.13	20.43	20.38	21.00
		120	60	20.25	20.49	20.32	21.00
	DFT-s-OFDM 64QAM	1	1	19.93	20.07	19.90	21.00
		1	243	20.04	20.12	20.12	21.00
		120	60	20.05	20.00	19.90	21.00
	DFT-s-OFDM 256QAM	1	1	18.26	18.30	18.32	20.00
		1	243	18.17	18.23	18.36	20.00
		120	60	18.12	18.09	18.20	20.00
	CP-OFDM QPSK	1	1	20.40	20.55	20.28	21.00
	CP-OFDM 16QAM	1	1	20.54	20.60	20.22	21.00
	CP-OFDM 64QAM	1	1	20.13	20.09	19.87	21.00
	CP-OFDM 256QAM	1	1	15.99	16.15	16.06	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	19.97	20.01	20.15	21.00
		1	271	19.77	19.60	19.62	21.00
		135	67	20.02	19.53	19.68	21.00
		270	0	19.38	19.45	19.60	21.00
	DFT-s-OFDM QPSK	1	1	19.62	19.43	19.50	21.00
		1	271	19.60	19.32	19.28	21.00
		135	67	19.46	19.37	19.32	21.00
		270	0	19.40	19.35	19.30	21.00
	DFT-s-OFDM 16QAM	1	1	20.31	20.26	20.20	21.00
		1	271	20.11	20.39	20.33	21.00
		135	67	20.16	20.40	20.20	21.00
	DFT-s-OFDM 64QAM	1	1	19.86	19.94	19.80	21.00
		1	271	19.98	20.00	20.01	21.00
		135	67	19.95	19.90	19.80	21.00

	DFT-s-OFDM 256QAM	1	1	18.24	18.15	18.20	20.00
		1	271	18.15	18.13	18.23	20.00
		135	67	18.10	18.05	18.11	20.00
	CP-OFDM QPSK	1	1	20.33	20.43	20.20	21.00
	CP-OFDM 16QAM	1	1	20.46	20.54	20.15	21.00
	CP-OFDM 64QAM	1	1	20.02	19.98	19.75	21.00
	CP-OFDM 256QAM	1	1	15.92	16.02	15.96	18.00

NR n41 PC2							
Hotspot on-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	19.38	19.32	19.33	20.50
		1	49	19.32	19.26	19.31	20.50
		25	12	19.48	19.33	19.43	20.50
		50	0	19.46	19.36	19.42	20.50
	DFT-s-OFDM QPSK	1	1	19.42	19.33	20.01	20.50
		1	49	19.54	19.22	19.61	20.50
		25	12	19.38	19.39	19.65	20.50
		50	0	19.31	19.30	19.60	20.50
	DFT-s-OFDM 16QAM	1	1	19.71	19.83	19.29	20.50
		1	49	19.89	20.06	19.14	20.50
		25	12	19.88	19.99	19.54	20.50
	DFT-s-OFDM 64QAM	1	1	20.03	20.19	19.97	20.50
		1	49	19.89	19.88	19.65	20.50
		25	12	20.15	20.08	19.87	20.50
	DFT-s-OFDM 256QAM	1	1	18.16	18.23	18.16	20.00
		1	49	18.15	18.21	18.15	20.00
		25	12	18.06	18.13	18.03	20.00
	CP-OFDM QPSK	1	1	19.83	19.90	19.80	20.50
	CP-OFDM 16QAM	1	1	19.94	20.09	19.94	20.50
	CP-OFDM 64QAM	1	1	19.12	19.10	18.90	20.00
	CP-OFDM 256QAM	1	1	15.97	16.23	16.13	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	19.40	19.33	19.36	20.50
		1	76	19.35	19.31	19.35	20.50
		36	18	19.50	19.37	19.46	20.50
		75	0	19.49	19.41	19.46	20.50
	DFT-s-OFDM QPSK	1	1	19.45	19.38	20.05	20.50
		1	76	19.56	19.26	19.66	20.50
		36	18	19.42	19.41	19.69	20.50
		75	0	19.35	19.33	19.62	20.50
	DFT-s-OFDM 16QAM	1	1	19.68	19.79	19.26	20.50
		1	76	19.88	20.02	19.12	20.50
		36	18	19.86	19.98	19.51	20.50
	DFT-s-OFDM 64QAM	1	1	20.00	20.14	19.93	20.50
		1	76	19.87	19.84	19.62	20.50
		36	18	20.12	20.03	19.83	20.50
	DFT-s-OFDM 256QAM	1	1	18.13	18.18	18.12	20.00
		1	76	18.12	18.17	18.10	20.00
		36	18	18.03	18.11	17.99	20.00
	CP-OFDM QPSK	1	1	19.80	19.87	19.78	20.50
	CP-OFDM 16QAM	1	1	19.91	20.05	19.91	20.50
	CP-OFDM 64QAM	1	1	19.09	19.08	18.87	20.00
	CP-OFDM 256QAM	1	1	15.94	16.18	16.09	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	19.40	19.39	19.35	20.50
		1	104	19.32	19.26	19.32	20.50
		50	25	19.51	19.35	19.47	20.50
		100	0	19.48	19.40	19.45	20.50
	DFT-s-OFDM QPSK	1	1	19.44	19.37	20.04	20.50
		1	104	19.58	19.26	19.64	20.50
		50	25	19.39	19.46	19.70	20.50
		100	0	19.32	19.33	19.65	20.50
	DFT-s-OFDM 16QAM	1	1	19.65	19.77	19.22	20.50
		1	104	19.86	19.98	19.09	20.50
		50	25	19.83	19.93	19.47	20.50
	DFT-s-OFDM 64QAM	1	1	19.97	20.09	19.89	20.50
		1	104	19.85	19.80	19.57	20.50
		50	25	20.10	20.01	19.79	20.50

	DFT-s-OFDM 256QAM	1	1	18.13	18.17	18.10	20.00
		1	104	18.12	18.13	18.07	20.00
		50	25	18.03	18.09	17.96	20.00
	CP-OFDM QPSK	1	1	19.77	19.85	19.74	20.50
	CP-OFDM 16QAM	1	1	19.89	20.01	19.88	20.50
	CP-OFDM 64QAM	1	1	19.06	19.03	18.83	20.00
	CP-OFDM 256QAM	1	1	15.91	16.13	16.05	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5329982664.99	
50MHz	DFT-s-OFDM BPSK	1	1	19.39	19.29	19.34	20.50
		1	131	19.33	19.30	19.32	20.50
		64	32	19.47	19.32	19.42	20.50
		128	0	19.47	19.37	19.43	20.50
	DFT-s-OFDM QPSK	1	1	19.42	19.33	20.01	20.50
		1	131	19.53	19.23	19.62	20.50
		64	32	19.40	19.37	19.64	20.50
		128	0	19.33	19.31	19.60	20.50
	DFT-s-OFDM 16QAM	1	1	19.72	19.87	19.31	20.50
		1	131	19.91	20.07	19.17	20.50
		64	32	19.91	20.04	19.58	20.50
	DFT-s-OFDM 64QAM	1	1	20.05	20.23	20.00	20.50
		1	131	19.92	19.93	19.69	20.50
		64	32	20.18	20.11	19.91	20.50
	DFT-s-OFDM 256QAM	1	1	18.18	18.27	18.21	20.00
		1	131	18.17	18.23	18.17	20.00
		64	32	18.08	18.16	18.05	20.00
	CP-OFDM QPSK	1	1	19.85	19.94	19.83	20.50
	CP-OFDM 16QAM	1	1	19.97	20.11	19.97	20.50
	CP-OFDM 64QAM	1	1	19.15	19.15	18.94	20.00
	CP-OFDM 256QAM	1	1	15.99	16.27	16.16	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	19.42	19.40	19.38	20.50
		1	160	19.35	19.31	19.36	20.50
		81	40	19.53	19.39	19.50	20.50

		162	0	19.51	19.45	19.49	20.50
	DFT-s-OFDM QPSK	1	1	19.47	19.42	20.08	20.50
		1	160	19.60	19.30	19.69	20.50
		81	40	19.43	19.48	19.74	20.50
		162	0	19.36	19.36	19.67	20.50
	DFT-s-OFDM 16QAM	1	1	19.67	19.78	19.25	20.50
		1	160	19.89	20.03	19.13	20.50
		81	40	19.85	19.97	19.50	20.50
	DFT-s-OFDM 64QAM	1	1	20.00	20.14	19.93	20.50
		1	160	19.88	19.85	19.61	20.50
		81	40	20.12	20.05	19.84	20.50
	DFT-s-OFDM 256QAM	1	1	18.17	18.19	18.14	20.00
		1	160	18.16	18.16	18.09	20.00
		81	40	18.07	18.13	17.99	20.00
	CP-OFDM QPSK	1	1	19.80	19.87	19.77	20.50
	CP-OFDM 16QAM	1	1	19.92	20.06	19.92	20.50
	CP-OFDM 64QAM	1	1	19.08	19.07	18.86	20.00
	CP-OFDM 256QAM	1	1	15.94	16.18	16.09	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	19.43	19.41	19.39	20.50
		1	215	19.34	19.30	19.35	20.50
		108	54	19.54	19.40	19.51	20.50
		216	0	19.51	19.45	19.49	20.50
	DFT-s-OFDM QPSK	1	1	19.46	19.41	20.09	20.50
		1	215	19.60	19.28	19.68	20.50
		108	54	19.39	19.47	19.72	20.50
		216	0	19.32	19.37	19.68	20.50
	DFT-s-OFDM 16QAM	1	1	19.70	19.86	19.28	20.50
		1	215	19.88	20.02	19.13	20.50
		108	54	19.89	20.00	19.55	20.50
	DFT-s-OFDM 64QAM	1	1	20.02	20.18	19.96	20.50
		1	215	19.89	19.88	19.65	20.50
		108	54	20.16	20.07	19.86	20.50
	DFT-s-OFDM 256QAM	1	1	18.14	18.25	18.17	20.00
		1	215	18.13	18.20	18.15	20.00
		108	54	18.04	18.12	18.02	20.00
	CP-OFDM QPSK	1	1	19.82	19.92	19.80	20.50

	CP-OFDM 16QAM	1	1	19.94	20.06	19.93	20.50
	CP-OFDM 64QAM	1	1	19.13	19.11	18.91	20.00
	CP-OFDM 256QAM	1	1	15.96	16.22	16.12	18.00
Bandwidth	Modulation	RB allocation	offset	20.15			Tune-up
				19.73	19.85	19.98	
90MHz	DFT-s-OFDM BPSK	1	1	19.41	19.36	19.36	20.50
		1	243	19.33	19.30	19.33	20.50
		120	60	19.50	19.34	19.46	20.50
		243	0	19.49	19.41	19.46	20.50
	DFT-s-OFDM QPSK	1	1	19.44	19.37	20.04	20.50
		1	243	19.57	19.27	19.65	20.50
		120	60	19.41	19.44	19.69	20.50
		243	0	19.34	19.34	19.65	20.50
	DFT-s-OFDM 16QAM	1	1	19.66	19.74	19.23	20.50
		1	243	19.87	20.02	19.10	20.50
		120	60	19.82	19.92	19.46	20.50
	DFT-s-OFDM 64QAM	1	1	19.98	20.10	19.90	20.50
		1	243	19.85	19.80	19.57	20.50
		120	60	20.09	20.02	19.80	20.50
	DFT-s-OFDM 256QAM	1	1	18.15	18.15	18.09	20.00
		1	243	18.14	18.14	18.07	20.00
		120	60	18.05	18.10	17.97	20.00
	CP-OFDM QPSK	1	1	19.78	19.83	19.74	20.50
	CP-OFDM 16QAM	1	1	19.89	20.04	19.89	20.50
	CP-OFDM 64QAM	1	1	19.05	19.02	18.82	20.00
	CP-OFDM 256QAM	1	1	15.92	16.14	16.06	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	19.36	19.25	19.31	20.50
		1	271	19.32	19.26	19.30	20.50
		135	67	19.45	19.31	19.39	20.50
		270	0	19.44	19.32	19.39	20.50
	DFT-s-OFDM QPSK	1	1	19.40	19.29	19.98	20.50
		1	271	19.50	19.18	19.58	20.50
		135	67	19.37	19.32	19.60	20.50
		270	0	19.30	19.27	19.55	20.50

	DFT-s-OFDM 16QAM	1	1	19.63	19.70	19.20	20.50
		1	271	19.86	19.98	19.08	20.50
		135	67	19.80	19.91	19.43	20.50
	DFT-s-OFDM 64QAM	1	1	19.95	20.05	19.86	20.50
		1	271	19.83	19.76	19.54	20.50
		135	67	20.06	19.97	19.76	20.50
	DFT-s-OFDM 256QAM	1	1	18.12	18.10	18.05	20.00
		1	271	18.11	18.10	18.02	20.00
		135	67	18.02	18.08	17.93	20.00
	CP-OFDM QPSK	1	1	19.75	19.80	19.72	20.50
	CP-OFDM 16QAM	1	1	19.86	20.00	19.86	20.50
	CP-OFDM 64QAM	1	1	19.02	19.00	18.79	20.00
	CP-OFDM 256QAM	1	1	15.89	16.09	16.02	18.00

NR n41 PC2							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	18.27	18.23	18.22	19.70
		1	49	18.29	18.28	18.30	19.70
		25	12	18.31	18.20	18.28	19.70
		50	0	18.24	18.22	18.23	19.70
	DFT-s-OFDM QPSK	1	1	18.58	18.19	18.57	19.70
		1	49	18.66	18.34	18.57	19.70
		25	12	18.34	18.22	18.44	19.70
		50	0	18.37	18.19	18.40	19.70
	DFT-s-OFDM 16QAM	1	1	18.23	18.16	18.28	19.70
		1	49	18.49	18.44	18.46	19.70
		25	12	18.32	18.17	18.25	19.70
	DFT-s-OFDM 64QAM	1	1	18.39	18.27	18.34	19.70
		1	49	18.60	18.53	18.57	19.70
		25	12	18.26	18.19	18.26	19.70
	DFT-s-OFDM 256QAM	1	1	17.32	17.14	17.23	18.90
		1	49	17.57	17.36	17.50	18.90
		25	12	17.18	17.10	17.14	18.90
	CP-OFDM QPSK	1	1	18.18	18.07	18.13	19.70
	CP-OFDM 16QAM	1	1	18.12	18.03	18.08	19.70

	CP-OFDM 64QAM	1	1	18.07	18.00	18.04	19.70
	CP-OFDM 256QAM	1	1	14.48	14.41	14.48	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	18.22	18.14	18.16	19.70
		1	76	18.27	18.24	18.26	19.70
		36	18	18.25	18.13	18.20	19.70
		75	0	18.19	18.13	18.16	19.70
	DFT-s-OFDM QPSK	1	1	18.54	18.11	18.49	19.70
		1	76	18.60	18.28	18.50	19.70
		36	18	18.33	18.14	18.37	19.70
		75	0	18.36	18.12	18.32	19.70
	DFT-s-OFDM 16QAM	1	1	18.22	18.13	18.22	19.70
		1	76	18.44	18.37	18.40	19.70
		36	18	18.27	18.12	18.20	19.70
	DFT-s-OFDM 64QAM	1	1	18.32	18.19	18.26	19.70
		1	76	18.55	18.44	18.50	19.70
		36	18	18.22	18.11	18.18	19.70
	DFT-s-OFDM 256QAM	1	1	17.24	17.07	17.15	18.90
		1	76	17.51	17.33	17.44	18.90
		36	18	17.13	17.03	17.08	18.90
	CP-OFDM QPSK	1	1	18.13	18.02	18.08	19.70
	CP-OFDM 16QAM	1	1	18.05	17.95	18.00	19.70
	CP-OFDM 64QAM	1	1	18.02	17.91	17.97	19.70
	CP-OFDM 256QAM	1	1	14.44	14.33	14.40	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	18.19	18.12	18.12	19.70
		1	104	18.25	18.20	18.23	19.70
		50	25	18.22	18.08	18.16	19.70
		100	0	18.16	18.08	18.12	19.70
	DFT-s-OFDM QPSK	1	1	18.52	18.07	18.44	19.70
		1	104	18.58	18.26	18.46	19.70
		50	25	18.33	18.13	18.35	19.70
		100	0	18.36	18.08	18.29	19.70
	DFT-s-OFDM 16QAM	1	1	18.22	18.11	18.19	19.70
		1	104	18.41	18.35	18.36	19.70

		50	25	18.25	18.08	18.17	19.70
	DFT-s-OFDM 64QAM	1	1	18.29	18.14	18.22	19.70
		1	104	18.52	18.39	18.46	19.70
		50	25	18.20	18.07	18.13	19.70
	DFT-s-OFDM 256QAM	1	1	17.21	17.07	17.12	18.90
		1	104	17.48	17.35	17.41	18.90
		50	25	17.14	17.01	17.04	18.90
	CP-OFDM QPSK	1	1	18.11	17.98	18.09	19.70
	CP-OFDM 16QAM	1	1	18.02	17.90	17.96	19.70
	CP-OFDM 64QAM	1	1	17.99	17.86	17.93	19.70
	CP-OFDM 256QAM	1	1	14.42	14.29	14.35	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5329982664.99	
50MHz	DFT-s-OFDM BPSK	1	1	18.24	18.21	18.18	19.70
		1	131	18.27	18.24	18.27	19.70
		64	32	18.28	18.15	18.24	19.70
		128	0	18.21	18.17	18.19	19.70
	DFT-s-OFDM QPSK	1	1	18.56	18.15	18.52	19.70
		1	131	18.64	18.32	18.53	19.70
		64	32	18.34	18.21	18.42	19.70
		128	0	18.37	18.15	18.37	19.70
	DFT-s-OFDM 16QAM	1	1	18.23	18.14	18.25	19.70
		1	131	18.46	18.42	18.42	19.70
		64	32	18.30	18.13	18.22	19.70
	DFT-s-OFDM 64QAM	1	1	18.36	18.22	18.30	19.70
		1	131	18.57	18.48	18.53	19.70
		64	32	18.24	18.15	18.21	19.70
	DFT-s-OFDM 256QAM	1	1	17.29	17.14	17.20	18.90
		1	131	17.54	17.38	17.47	18.90
		64	32	17.19	17.08	17.10	18.90
	CP-OFDM QPSK	1	1	18.16	18.03	18.14	19.70
	CP-OFDM 16QAM	1	1	18.09	17.98	18.04	19.70
	CP-OFDM 64QAM	1	1	18.04	17.95	18.00	19.70
	CP-OFDM 256QAM	1	1	14.46	14.37	14.43	16.90

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	18.26	18.22	18.21	19.70
		1	160	18.30	18.29	18.31	19.70
		81	40	18.30	18.19	18.27	19.70
		162	0	18.24	18.22	18.23	19.70
	DFT-s-OFDM QPSK	1	1	18.59	18.20	18.56	19.70
		1	160	18.66	18.36	18.58	19.70
		81	40	18.38	18.23	18.46	19.70
		162	0	18.41	18.18	18.39	19.70
	DFT-s-OFDM 16QAM	1	1	18.27	18.18	18.28	19.70
		1	160	18.49	18.44	18.45	19.70
		81	40	18.33	18.18	18.26	19.70
	DFT-s-OFDM 64QAM	1	1	18.38	18.26	18.33	19.70
		1	160	18.60	18.53	18.57	19.70
		81	40	18.27	18.20	18.25	19.70
	DFT-s-OFDM 256QAM	1	1	17.31	17.13	17.22	18.90
		1	160	17.57	17.38	17.50	18.90
		81	40	17.18	17.10	17.13	18.90
	CP-OFDM QPSK	1	1	18.19	18.08	18.14	19.70
	CP-OFDM 16QAM	1	1	18.11	18.02	18.07	19.70
	CP-OFDM 64QAM	1	1	18.07	18.00	18.04	19.70
	CP-OFDM 256QAM	1	1	14.49	14.42	14.47	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	18.25	18.18	18.19	19.70
		1	215	18.28	18.28	18.28	19.70
		108	54	18.27	18.14	18.23	19.70
		216	0	18.22	18.18	18.20	19.70
	DFT-s-OFDM QPSK	1	1	18.56	18.15	18.52	19.70
		1	215	18.63	18.33	18.54	19.70
		108	54	18.36	18.19	18.41	19.70
		216	0	18.39	18.16	18.37	19.70
	DFT-s-OFDM 16QAM	1	1	18.25	18.15	18.26	19.70
		1	215	18.47	18.40	18.42	19.70
		108	54	18.30	18.16	18.23	19.70
	DFT-s-OFDM 64QAM	1	1	18.35	18.21	18.29	19.70
		1	215	18.58	18.49	18.54	19.70
		108	54	18.24	18.15	18.21	19.70

	DFT-s-OFDM 256QAM	1	1	17.26	17.11	17.20	18.90
		1	215	17.55	17.35	17.48	18.90
		108	54	17.19	17.09	17.14	18.90
	CP-OFDM QPSK	1	1	18.18	18.10	18.15	19.70
	CP-OFDM 16QAM	1	1	18.09	17.99	18.06	19.70
	CP-OFDM 64QAM	1	1	18.05	17.96	18.01	19.70
	CP-OFDM 256QAM	1	1	14.46	14.37	14.43	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	18.31	18.31	18.27	19.70
		1	243	18.32	18.33	18.35	19.70
		120	60	18.36	18.26	18.35	19.70
		243	0	18.29	18.31	18.30	19.70
	DFT-s-OFDM QPSK	1	1	18.63	18.28	18.64	19.70
		1	243	18.72	18.42	18.65	19.70
		120	60	18.39	18.31	18.53	19.70
		243	0	18.42	18.25	18.47	19.70
	DFT-s-OFDM 16QAM	1	1	18.28	18.21	18.34	19.70
		1	243	18.54	18.51	18.51	19.70
		120	60	18.38	18.23	18.31	19.70
	DFT-s-OFDM 64QAM	1	1	18.45	18.34	18.41	19.70
		1	243	18.65	18.62	18.64	19.70
		120	60	18.31	18.28	18.33	19.70
	DFT-s-OFDM 256QAM	1	1	17.39	17.20	17.30	18.90
		1	243	17.63	17.41	17.56	18.90
		120	60	17.23	17.17	17.19	18.90
	CP-OFDM QPSK	1	1	18.24	18.13	18.19	19.70
	CP-OFDM 16QAM	1	1	18.18	18.10	18.15	19.70
	CP-OFDM 64QAM	1	1	18.12	18.09	18.11	19.70
	CP-OFDM 256QAM	1	1	14.53	14.50	14.55	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	18.17	18.05	18.10	19.70
		1	271	18.25	18.20	18.22	19.70
		135	67	18.19	18.06	18.12	19.70

		270	0	18.14	18.04	18.09	19.70
	DFT-s-OFDM QPSK	1	1	18.50	18.03	18.41	19.70
		1	271	18.54	18.22	18.43	19.70
		135	67	18.32	18.06	18.30	19.70
		270	0	18.35	18.05	18.24	19.70
	DFT-s-OFDM 16QAM	1	1	18.21	18.10	18.16	19.70
		1	271	18.39	18.30	18.34	19.70
		135	67	18.22	18.07	18.15	19.70
	DFT-s-OFDM 64QAM	1	1	18.25	18.11	18.18	19.70
		1	271	18.50	18.35	18.43	19.70
		135	67	18.18	18.03	18.10	19.70
	DFT-s-OFDM 256QAM	1	1	17.16	17.00	17.07	18.90
		1	271	17.45	17.30	17.38	18.90
		135	67	17.08	16.96	17.02	18.90
	CP-OFDM QPSK	1	1	18.08	17.97	18.03	19.70
	CP-OFDM 16QAM	1	1	17.98	17.87	17.92	19.70
	CP-OFDM 64QAM	1	1	17.97	17.82	17.90	19.70
	CP-OFDM 256QAM	1	1	14.40	14.25	14.32	16.90

NR n41 PC2							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	18.21	18.21	18.31	19.60
		1	49	18.26	18.24	18.33	19.60
		25	12	18.22	18.15	18.32	19.60
		50	0	18.20	18.17	18.32	19.60
	DFT-s-OFDM QPSK	1	1	18.56	18.15	18.52	19.60
		1	49	18.64	18.32	18.53	19.60
		25	12	18.34	18.21	18.42	19.60
		50	0	18.37	18.15	18.37	19.60
	DFT-s-OFDM 16QAM	1	1	18.18	18.19	18.19	19.60
		1	49	18.43	18.47	18.38	19.60
		25	12	18.27	18.20	18.14	19.60
	DFT-s-OFDM 64QAM	1	1	18.34	18.29	18.23	19.60
		1	49	18.56	18.55	18.45	19.60
		25	12	18.22	18.23	18.14	19.60
	DFT-s-OFDM 256QAM	1	1	17.26	17.23	17.13	18.90
		1	49	17.54	17.45	17.39	18.90

		25	12	17.19	17.14	17.04	18.90
	CP-OFDM QPSK	1	1	18.15	18.08	18.08	19.60
	CP-OFDM 16QAM	1	1	18.09	18.04	17.99	19.60
	CP-OFDM 64QAM	1	1	18.03	18.02	17.92	19.60
	CP-OFDM 256QAM	1	1	14.43	14.63	14.36	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	18.23	18.22	18.34	19.60
		1	76	18.29	18.29	18.37	19.60
		36	18	18.24	18.19	18.35	19.60
		75	0	18.23	18.22	18.36	19.60
	DFT-s-OFDM QPSK	1	1	18.59	18.20	18.56	19.60
		1	76	18.66	18.36	18.58	19.60
		36	18	18.38	18.23	18.46	19.60
		75	0	18.41	18.18	18.39	19.60
	DFT-s-OFDM 16QAM	1	1	18.22	18.23	18.22	19.60
		1	76	18.46	18.49	18.41	19.60
		36	18	18.30	18.25	18.18	19.60
	DFT-s-OFDM 64QAM	1	1	18.36	18.33	18.26	19.60
		1	76	18.59	18.60	18.49	19.60
		36	18	18.25	18.28	18.18	19.60
	DFT-s-OFDM 256QAM	1	1	17.28	17.22	17.15	18.90
		1	76	17.57	17.45	17.42	18.90
		36	18	17.18	17.16	17.07	18.90
	CP-OFDM QPSK	1	1	18.18	18.13	18.08	19.60
	CP-OFDM 16QAM	1	1	18.11	18.08	18.02	19.60
	CP-OFDM 64QAM	1	1	18.06	18.07	17.96	19.60
	CP-OFDM 256QAM	1	1	14.46	14.68	14.40	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	18.22	18.18	18.32	19.60
		1	104	18.27	18.28	18.34	19.60
		50	25	18.21	18.14	18.31	19.60
		100	0	18.21	18.18	18.33	19.60
	DFT-s-OFDM	1	1	18.56	18.15	18.52	19.60

	QPSK	1	104	18.63	18.33	18.54	19.60
		50	25	18.36	18.19	18.41	19.60
		100	0	18.39	18.16	18.37	19.60
	DFT-s-OFDM 16QAM	1	1	18.20	18.20	18.20	19.60
		1	104	18.44	18.45	18.38	19.60
		50	25	18.27	18.23	18.15	19.60
	DFT-s-OFDM 64QAM	1	1	18.33	18.28	18.22	19.60
		1	104	18.57	18.56	18.46	19.60
		50	25	18.22	18.23	18.14	19.60
	DFT-s-OFDM 256QAM	1	1	17.23	17.20	17.13	18.90
		1	104	17.55	17.42	17.40	18.90
		50	25	17.19	17.15	17.08	18.90
	CP-OFDM QPSK	1	1	18.17	18.15	18.09	19.60
	CP-OFDM 16QAM	1	1	18.09	18.05	18.01	19.60
	CP-OFDM 64QAM	1	1	18.04	18.03	17.93	19.60
	CP-OFDM 256QAM	1	1	14.43	14.63	14.36	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5329982664.99	
50MHz	DFT-s-OFDM BPSK	1	1	18.19	18.14	18.29	19.60
		1	131	18.26	18.24	18.32	19.60
		64	32	18.19	18.13	18.28	19.60
		128	0	18.18	18.13	18.29	19.60
	DFT-s-OFDM QPSK	1	1	18.54	18.11	18.49	19.60
		1	131	18.60	18.28	18.50	19.60
		64	32	18.33	18.14	18.37	19.60
		128	0	18.36	18.12	18.32	19.60
	DFT-s-OFDM 16QAM	1	1	18.17	18.18	18.16	19.60
		1	131	18.41	18.42	18.36	19.60
		64	32	18.24	18.19	18.12	19.60
	DFT-s-OFDM 64QAM	1	1	18.30	18.26	18.19	19.60
		1	131	18.54	18.51	18.42	19.60
		64	32	18.20	18.19	18.11	19.60
	DFT-s-OFDM 256QAM	1	1	17.21	17.16	17.08	18.90
		1	131	17.51	17.40	17.36	18.90
		64	32	17.13	17.09	17.02	18.90
	CP-OFDM QPSK	1	1	18.12	18.07	18.02	19.60
	CP-OFDM 16QAM	1	1	18.05	18.01	17.95	19.60

	CP-OFDM 64QAM	1	1	18.01	17.98	17.89	19.60
	CP-OFDM 256QAM	1	1	14.41	14.59	14.33	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	18.16	18.12	18.25	19.60
		1	160	18.24	18.20	18.29	19.60
		81	40	18.16	18.08	18.24	19.60
		162	0	18.15	18.08	18.25	19.60
	DFT-s-OFDM QPSK	1	1	18.52	18.07	18.44	19.60
		1	160	18.58	18.26	18.46	19.60
		81	40	18.33	18.13	18.35	19.60
		162	0	18.36	18.08	18.29	19.60
	DFT-s-OFDM 16QAM	1	1	18.17	18.16	18.13	19.60
		1	160	18.38	18.40	18.32	19.60
		81	40	18.22	18.15	18.09	19.60
	DFT-s-OFDM 64QAM	1	1	18.27	18.21	18.15	19.60
		1	160	18.51	18.46	18.38	19.60
		81	40	18.18	18.15	18.06	19.60
	DFT-s-OFDM 256QAM	1	1	17.18	17.16	17.05	18.90
		1	160	17.48	17.42	17.33	18.90
		81	40	17.14	17.07	16.98	18.90
	CP-OFDM QPSK	1	1	18.10	18.03	18.03	19.60
	CP-OFDM 16QAM	1	1	18.02	17.96	17.91	19.60
	CP-OFDM 64QAM	1	1	17.98	17.93	17.85	19.60
	CP-OFDM 256QAM	1	1	14.39	14.55	14.28	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	18.18	18.13	18.28	19.60
		1	215	18.27	18.25	18.33	19.60
		108	54	18.18	18.12	18.27	19.60
		216	0	18.18	18.13	18.29	19.60
	DFT-s-OFDM QPSK	1	1	18.55	18.12	18.48	19.60
		1	215	18.60	18.30	18.51	19.60
		108	54	18.37	18.15	18.39	19.60
		216	0	18.40	18.11	18.31	19.60
	DFT-s-OFDM 16QAM	1	1	18.21	18.20	18.16	19.60
		1	215	18.41	18.42	18.35	19.60

		108	54	18.25	18.20	18.13	19.60
	DFT-s-OFDM 64QAM	1	1	18.29	18.25	18.18	19.60
		1	215	18.54	18.51	18.42	19.60
		108	54	18.21	18.20	18.10	19.60
	DFT-s-OFDM 256QAM	1	1	17.20	17.15	17.07	18.90
		1	215	17.51	17.42	17.36	18.90
		108	54	17.13	17.09	17.01	18.90
	CP-OFDM QPSK	1	1	18.13	18.08	18.03	19.60
	CP-OFDM 16QAM	1	1	18.04	18.00	17.94	19.60
	CP-OFDM 64QAM	1	1	18.01	17.98	17.89	19.60
	CP-OFDM 256QAM	1	1	14.42	14.60	14.32	16.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	18.17	18.09	18.26	19.60
		1	243	18.25	18.24	18.30	19.60
		120	60	18.15	18.07	18.23	19.60
		243	0	18.16	18.09	18.26	19.60
	DFT-s-OFDM QPSK	1	1	18.52	18.07	18.44	19.60
		1	243	18.57	18.27	18.47	19.60
		120	60	18.35	18.11	18.34	19.60
		243	0	18.38	18.09	18.29	19.60
	DFT-s-OFDM 16QAM	1	1	18.19	18.17	18.14	19.60
		1	243	18.39	18.38	18.32	19.60
		120	60	18.22	18.18	18.10	19.60
	DFT-s-OFDM 64QAM	1	1	18.26	18.20	18.14	19.60
		1	243	18.52	18.47	18.39	19.60
		120	60	18.18	18.15	18.06	19.60
	DFT-s-OFDM 256QAM	1	1	17.15	17.13	17.05	18.90
		1	243	17.49	17.39	17.34	18.90
		120	60	17.14	17.08	17.02	18.90
	CP-OFDM QPSK	1	1	18.12	18.10	18.04	19.60
	CP-OFDM 16QAM	1	1	18.02	17.97	17.93	19.60
	CP-OFDM 64QAM	1	1	17.99	17.94	17.86	19.60
	CP-OFDM 256QAM	1	1	14.39	14.55	14.28	16.90

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	18.14	18.05	18.23	19.60
		1	271	18.24	18.20	18.28	19.60
		135	67	18.13	18.06	18.20	19.60
		270	0	18.13	18.04	18.22	19.60
	DFT-s-OFDM QPSK	1	1	18.50	18.03	18.41	19.60
		1	271	18.54	18.22	18.43	19.60
		135	67	18.32	18.06	18.30	19.60
		270	0	18.35	18.05	18.24	19.60
	DFT-s-OFDM 16QAM	1	1	18.16	18.15	18.10	19.60
		1	271	18.36	18.35	18.30	19.60
		135	67	18.19	18.14	18.07	19.60
	DFT-s-OFDM 64QAM	1	1	18.23	18.18	18.11	19.60
		1	271	18.49	18.42	18.35	19.60
		135	67	18.16	18.11	18.03	19.60
	DFT-s-OFDM 256QAM	1	1	17.13	17.09	17.00	18.90
		1	271	17.45	17.37	17.30	18.90
		135	67	17.08	17.02	16.96	18.90
	CP-OFDM QPSK	1	1	18.07	18.02	17.97	19.60
	CP-OFDM 16QAM	1	1	17.98	17.93	17.87	19.60
	CP-OFDM 64QAM	1	1	17.96	17.89	17.82	19.60
	CP-OFDM 256QAM	1	1	14.37	14.51	14.25	16.90

NR n41 PC2							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	13.25	13.28	13.30	14.80
		1	49	13.36	13.36	13.39	14.80
		25	12	13.29	13.25	13.36	14.80
		50	0	13.24	13.24	13.30	14.80
	DFT-s-OFDM QPSK	1	1	13.34	13.23	13.15	14.80
		1	49	13.34	13.45	13.24	14.80
		25	12	13.17	13.32	13.30	14.80
		50	0	13.24	13.27	13.26	14.80
	DFT-s-OFDM 16QAM	1	1	13.16	13.06	13.10	14.80
		1	49	13.35	13.35	13.32	14.80
		25	12	12.95	12.82	12.86	14.80

	DFT-s-OFDM 64QAM	1	1	13.33	13.22	13.25	14.80
		1	49	13.45	13.39	13.40	14.80
		25	12	13.31	13.20	13.23	14.80
	DFT-s-OFDM 256QAM	1	1	13.35	13.32	13.31	14.80
		1	49	13.48	13.45	13.44	14.80
		25	12	13.26	13.20	13.18	14.80
	CP-OFDM QPSK	1	1	13.17	13.05	13.12	14.80
	CP-OFDM 16QAM	1	1	12.98	12.86	12.90	14.80
	CP-OFDM 64QAM	1	1	13.13	13.01	13.04	14.80
	CP-OFDM 256QAM	1	1	12.99	12.91	12.92	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	13.27	13.29	13.33	14.80
		1	76	13.39	13.41	13.43	14.80
		36	18	13.31	13.29	13.39	14.80
		75	0	13.27	13.29	13.34	14.80
	DFT-s-OFDM QPSK	1	1	13.37	13.28	13.19	14.80
		1	76	13.36	13.49	13.29	14.80
		36	18	13.21	13.34	13.34	14.80
		75	0	13.28	13.30	13.28	14.80
	DFT-s-OFDM 16QAM	1	1	13.20	13.10	13.13	14.80
		1	76	13.38	13.37	13.35	14.80
		36	18	12.98	12.87	12.90	14.80
	DFT-s-OFDM 64QAM	1	1	13.35	13.26	13.28	14.80
		1	76	13.48	13.44	13.44	14.80
		36	18	13.34	13.25	13.27	14.80
	DFT-s-OFDM 256QAM	1	1	13.37	13.31	13.33	14.80
		1	76	13.51	13.45	13.47	14.80
		36	18	13.25	13.22	13.21	14.80
	CP-OFDM QPSK	1	1	13.20	13.10	13.12	14.80
	CP-OFDM 16QAM	1	1	13.00	12.90	12.93	14.80
	CP-OFDM 64QAM	1	1	13.16	13.06	13.08	14.80
	CP-OFDM 256QAM	1	1	13.02	12.96	12.96	14.80

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	13.31	13.34	13.37	14.80
		1	104	13.39	13.44	13.44	14.80
		50	25	13.34	13.31	13.43	14.80
		100	0	13.30	13.34	13.38	14.80
	DFT-s-OFDM QPSK	1	1	13.38	13.31	13.23	14.80
		1	104	13.39	13.52	13.32	14.80
		50	25	13.20	13.38	13.36	14.80
		100	0	13.27	13.35	13.34	14.80
	DFT-s-OFDM 16QAM	1	1	13.19	13.10	13.17	14.80
		1	104	13.41	13.40	13.38	14.80
		50	25	13.00	12.90	12.92	14.80
	DFT-s-OFDM 64QAM	1	1	13.39	13.29	13.32	14.80
		1	104	13.51	13.49	13.48	14.80
		50	25	13.35	13.28	13.31	14.80
	DFT-s-OFDM 256QAM	1	1	13.40	13.36	13.39	14.80
		1	104	13.55	13.45	13.51	14.80
		50	25	13.31	13.28	13.28	14.80
	CP-OFDM QPSK	1	1	13.24	13.17	13.18	14.80
	CP-OFDM 16QAM	1	1	13.05	12.95	13.00	14.80
	CP-OFDM 64QAM	1	1	13.19	13.11	13.12	14.80
	CP-OFDM 256QAM	1	1	13.03	12.99	13.00	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	13.26	13.25	13.31	14.80
		1	131	13.37	13.40	13.40	14.80
		64	32	13.28	13.24	13.35	14.80
		128	0	13.25	13.25	13.31	14.80
	DFT-s-OFDM QPSK	1	1	13.34	13.23	13.15	14.80
		1	131	13.33	13.46	13.25	14.80
		64	32	13.19	13.30	13.29	14.80
		128	0	13.26	13.28	13.26	14.80
	DFT-s-OFDM 16QAM	1	1	13.18	13.07	13.11	14.80
		1	131	13.36	13.33	13.32	14.80
		64	32	12.95	12.85	12.87	14.80
	DFT-s-OFDM 64QAM	1	1	13.32	13.21	13.24	14.80
		1	131	13.46	13.40	13.41	14.80
		64	32	13.31	13.20	13.23	14.80

	DFT-s-OFDM 256QAM	1	1	13.32	13.29	13.31	14.80
		1	131	13.49	13.42	13.45	14.80
		64	32	13.26	13.21	13.22	14.80
	CP-OFDM QPSK	1	1	13.19	13.12	13.13	14.80
	CP-OFDM 16QAM	1	1	12.98	12.87	12.92	14.80
	CP-OFDM 64QAM	1	1	13.14	13.02	13.05	14.80
	CP-OFDM 256QAM	1	1	12.99	12.91	12.92	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	13.32	13.38	13.39	14.80
		1	160	13.41	13.45	13.47	14.80
		81	40	13.37	13.36	13.47	14.80
		162	0	13.32	13.38	13.41	14.80
	DFT-s-OFDM QPSK	1	1	13.41	13.36	13.27	14.80
		1	160	13.42	13.55	13.36	14.80
		81	40	13.22	13.42	13.41	14.80
		162	0	13.29	13.37	13.36	14.80
	DFT-s-OFDM 16QAM	1	1	13.21	13.13	13.19	14.80
		1	160	13.43	13.44	13.41	14.80
		81	40	13.03	12.92	12.95	14.80
	DFT-s-OFDM 64QAM	1	1	13.42	13.34	13.36	14.80
		1	160	13.53	13.53	13.51	14.80
		81	40	13.38	13.33	13.35	14.80
	DFT-s-OFDM 256QAM	1	1	13.45	13.38	13.41	14.80
		1	160	13.57	13.48	13.53	14.80
		81	40	13.30	13.29	13.27	14.80
	CP-OFDM QPSK	1	1	13.25	13.15	13.17	14.80
	CP-OFDM 16QAM	1	1	13.07	12.98	13.01	14.80
	CP-OFDM 64QAM	1	1	13.21	13.15	13.15	14.80
	CP-OFDM 256QAM	1	1	13.06	13.04	13.04	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	13.33	13.39	13.40	14.80
		1	215	13.40	13.44	13.46	14.80
		108	54	13.38	13.37	13.48	14.80

		216	0	13.32	13.38	13.41	14.80
	DFT-s-OFDM QPSK	1	1	13.40	13.35	13.28	14.80
		1	215	13.42	13.53	13.35	14.80
		108	54	13.18	13.41	13.39	14.80
		216	0	13.25	13.38	13.37	14.80
	DFT-s-OFDM 16QAM	1	1	13.17	13.11	13.19	14.80
		1	215	13.43	13.44	13.42	14.80
		108	54	13.02	12.91	12.94	14.80
	DFT-s-OFDM 64QAM	1	1	13.43	13.35	13.37	14.80
		1	215	13.53	13.53	13.51	14.80
		108	54	13.37	13.32	13.36	14.80
	DFT-s-OFDM 256QAM	1	1	13.46	13.39	13.42	14.80
		1	215	13.57	13.46	13.53	14.80
		108	54	13.30	13.29	13.28	14.80
	CP-OFDM QPSK	1	1	13.24	13.14	13.16	14.80
	CP-OFDM 16QAM	1	1	13.08	12.99	13.02	14.80
	CP-OFDM 64QAM	1	1	13.21	13.15	13.15	14.80
	CP-OFDM 256QAM	1	1	13.05	13.03	13.05	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	13.30	13.37	13.36	14.80
		1	243	13.38	13.40	13.43	14.80
		120	60	13.35	13.32	13.44	14.80
		243	0	13.29	13.33	13.37	14.80
	DFT-s-OFDM QPSK	1	1	13.38	13.31	13.23	14.80
		1	243	13.40	13.51	13.31	14.80
		120	60	13.18	13.40	13.37	14.80
		243	0	13.25	13.34	13.34	14.80
	DFT-s-OFDM 16QAM	1	1	13.17	13.09	13.16	14.80
		1	243	13.40	13.42	13.38	14.80
		120	60	13.00	12.87	12.91	14.80
	DFT-s-OFDM 64QAM	1	1	13.40	13.30	13.33	14.80
		1	243	13.50	13.48	13.47	14.80
		120	60	13.35	13.28	13.31	14.80
	DFT-s-OFDM 256QAM	1	1	13.43	13.39	13.39	14.80
		1	243	13.54	13.48	13.50	14.80
		120	60	13.31	13.27	13.24	14.80
	CP-OFDM QPSK	1	1	13.22	13.10	13.17	14.80

	CP-OFDM 16QAM	1	1	13.05	12.94	12.98	14.80
	CP-OFDM 64QAM	1	1	13.18	13.10	13.11	14.80
	CP-OFDM 256QAM	1	1	13.03	12.99	13.00	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	13.23	13.21	13.28	14.80
		1	271	13.36	13.36	13.38	14.80
		135	67	13.26	13.23	13.32	14.80
		270	0	13.22	13.20	13.27	14.80
	DFT-s-OFDM QPSK	1	1	13.32	13.19	13.12	14.80
		1	271	13.30	13.41	13.21	14.80
		135	67	13.16	13.25	13.25	14.80
		270	0	13.23	13.24	13.21	14.80
	DFT-s-OFDM 16QAM	1	1	13.15	13.05	13.07	14.80
		1	271	13.33	13.30	13.30	14.80
		135	67	12.92	12.81	12.84	14.80
	DFT-s-OFDM 64QAM	1	1	13.29	13.19	13.21	14.80
		1	271	13.43	13.35	13.37	14.80
		135	67	13.29	13.16	13.20	14.80
	DFT-s-OFDM 256QAM	1	1	13.30	13.25	13.26	14.80
		1	271	13.45	13.40	13.41	14.80
		135	67	13.20	13.15	13.16	14.80
	CP-OFDM QPSK	1	1	13.14	13.04	13.06	14.80
	CP-OFDM 16QAM	1	1	12.94	12.83	12.86	14.80
	CP-OFDM 64QAM	1	1	13.11	12.97	13.01	14.80
	CP-OFDM 256QAM	1	1	12.97	12.87	12.89	14.80

NR n41 PC3							
Receiver on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	17.98	17.95	17.94	19.30
		1	49	17.88	17.88	17.88	19.30
		25	12	17.96	17.88	17.92	19.30
		50	0	17.86	17.83	17.83	19.30
	DFT-s-OFDM	1	1	17.97	17.84	17.84	19.30

	QPSK	1	49	18.04	17.80	17.47	19.30
		25	12	17.71	17.93	17.97	19.30
		50	0	17.59	17.80	17.58	19.30
	DFT-s-OFDM 16QAM	1	1	17.87	17.83	17.94	19.30
		1	49	18.02	18.00	18.03	19.30
		25	12	18.00	17.92	18.03	19.30
	DFT-s-OFDM 64QAM	1	1	17.75	17.69	17.78	19.30
		1	49	18.11	18.07	18.15	19.30
		25	12	17.95	17.92	18.03	19.30
	DFT-s-OFDM 256QAM	1	1	17.87	17.79	17.88	19.30
		1	49	17.67	17.56	17.68	19.30
		25	12	17.87	17.83	17.89	19.30
	CP-OFDM QPSK	1	1	17.82	17.76	17.84	19.30
	CP-OFDM 16QAM	1	1	18.10	18.06	18.14	19.30
	CP-OFDM 64QAM	1	1	17.79	17.75	17.85	18.00
	CP-OFDM 256QAM	1	1	15.86	15.83	15.92	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	17.97	17.94	17.93	19.30
		1	76	17.89	17.89	17.89	19.30
		36	18	17.95	17.87	17.91	19.30
		75	0	17.86	17.83	17.83	19.30
	DFT-s-OFDM QPSK	1	1	17.98	17.85	17.83	19.30
		1	76	18.04	17.82	17.48	19.30
		36	18	17.75	17.94	17.99	19.30
		75	0	17.63	17.79	17.57	19.30
	DFT-s-OFDM 16QAM	1	1	17.91	17.85	17.94	19.30
		1	76	18.02	18.00	18.02	19.30
		36	18	18.01	17.93	18.04	19.30
	DFT-s-OFDM 64QAM	1	1	17.74	17.68	17.77	19.30
		1	76	18.11	18.07	18.15	19.30
		36	18	17.96	17.93	18.02	19.30
	DFT-s-OFDM 256QAM	1	1	17.86	17.78	17.87	19.30
		1	76	17.67	17.58	17.68	19.30
		36	18	17.87	17.83	17.88	19.30
	CP-OFDM QPSK	1	1	17.83	17.77	17.85	19.30
	CP-OFDM 16QAM	1	1	18.09	18.05	18.13	19.30

	CP-OFDM 64QAM	1	1	17.79	17.75	17.85	18.00
	CP-OFDM 256QAM	1	1	15.87	15.84	15.91	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	17.95	17.93	17.90	19.30
		1	104	17.86	17.84	17.85	19.30
		50	25	17.93	17.83	17.88	19.30
		100	0	17.83	17.78	17.79	19.30
	DFT-s-OFDM QPSK	1	1	17.95	17.80	17.79	19.30
		1	104	18.02	17.78	17.43	19.30
		50	25	17.71	17.92	17.95	19.30
		100	0	17.59	17.76	17.55	19.30
	DFT-s-OFDM 16QAM	1	1	17.87	17.81	17.91	19.30
		1	104	17.99	17.98	17.99	19.30
		50	25	17.98	17.88	18.00	19.30
	DFT-s-OFDM 64QAM	1	1	17.72	17.64	17.74	19.30
		1	104	18.08	18.02	18.11	19.30
		50	25	17.93	17.88	17.98	19.30
	DFT-s-OFDM 256QAM	1	1	17.84	17.79	17.85	19.30
		1	104	17.64	17.58	17.65	19.30
		50	25	17.88	17.81	17.85	19.30
	CP-OFDM QPSK	1	1	17.80	17.72	17.85	19.30
	CP-OFDM 16QAM	1	1	18.07	18.01	18.10	19.30
	CP-OFDM 64QAM	1	1	17.76	17.70	17.81	18.00
	CP-OFDM 256QAM	1	1	15.84	15.79	15.87	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	18.02	18.03	17.99	19.30
		1	131	17.91	17.93	17.93	19.30
		64	32	18.01	17.94	17.99	19.30
		128	0	17.91	17.92	17.90	19.30
	DFT-s-OFDM QPSK	1	1	18.02	17.93	17.91	19.30
		1	131	18.10	17.88	17.55	19.30
		64	32	17.76	18.02	18.06	19.30
		128	0	17.64	17.86	17.65	19.30
	DFT-s-OFDM 16QAM	1	1	17.92	17.88	18.00	19.30
		1	131	18.07	18.07	18.08	19.30

		64	32	18.06	17.98	18.09	19.30
	DFT-s-OFDM 64QAM	1	1	17.81	17.76	17.85	19.30
		1	131	18.16	18.16	18.22	19.30
		64	32	18.00	18.01	18.10	19.30
	DFT-s-OFDM 256QAM	1	1	17.94	17.85	17.95	19.30
		1	131	17.73	17.61	17.74	19.30
		64	32	17.92	17.90	17.94	19.30
	CP-OFDM QPSK	1	1	17.88	17.82	17.90	19.30
	CP-OFDM 16QAM	1	1	18.16	18.13	18.21	19.30
	CP-OFDM 64QAM	1	1	17.84	17.84	17.92	18.00
	CP-OFDM 256QAM	1	1	15.91	15.92	15.99	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	18.01	17.99	17.97	19.30
		1	160	17.89	17.92	17.90	19.30
		81	40	17.98	17.89	17.95	19.30
		162	0	17.89	17.88	17.87	19.30
	DFT-s-OFDM QPSK	1	1	17.99	17.88	17.87	19.30
		1	160	18.07	17.85	17.51	19.30
		81	40	17.74	17.98	18.01	19.30
		162	0	17.62	17.84	17.63	19.30
	DFT-s-OFDM 16QAM	1	1	17.90	17.85	17.98	19.30
		1	160	18.05	18.03	18.05	19.30
		81	40	18.03	17.96	18.06	19.30
	DFT-s-OFDM 64QAM	1	1	17.78	17.71	17.81	19.30
		1	160	18.14	18.12	18.19	19.30
		81	40	17.97	17.96	18.06	19.30
	DFT-s-OFDM 256QAM	1	1	17.89	17.83	17.93	19.30
		1	160	17.71	17.58	17.72	19.30
		81	40	17.93	17.89	17.95	19.30
	CP-OFDM QPSK	1	1	17.87	17.84	17.91	19.30
	CP-OFDM 16QAM	1	1	18.14	18.10	18.20	19.30
	CP-OFDM 64QAM	1	1	17.82	17.80	17.89	18.00
	CP-OFDM 256QAM	1	1	15.88	15.87	15.95	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	18.00	18.02	17.96	19.30
		1	215	17.88	17.88	17.89	19.30
		108	54	17.99	17.90	17.96	19.30
		216	0	17.88	17.87	17.86	19.30
	DFT-s-OFDM QPSK	1	1	17.99	17.88	17.87	19.30
		1	215	18.08	17.84	17.50	19.30
		108	54	17.72	18.00	18.02	19.30
		216	0	17.60	17.83	17.63	19.30
	DFT-s-OFDM 16QAM	1	1	17.88	17.84	17.97	19.30
		1	215	18.04	18.05	18.05	19.30
		108	54	18.03	17.93	18.05	19.30
	DFT-s-OFDM 64QAM	1	1	17.79	17.72	17.82	19.30
		1	215	18.13	18.11	18.18	19.30
		108	54	17.97	17.96	18.06	19.30
	DFT-s-OFDM 256QAM	1	1	17.92	17.86	17.93	19.30
		1	215	17.70	17.61	17.71	19.30
		108	54	17.93	17.88	17.91	19.30
	CP-OFDM QPSK	1	1	17.85	17.77	17.90	19.30
	CP-OFDM 16QAM	1	1	18.14	18.09	18.18	19.30
	CP-OFDM 64QAM	1	1	17.81	17.79	17.88	18.00
	CP-OFDM 256QAM	1	1	15.88	15.87	15.95	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	17.96	17.90	17.91	19.30
		1	243	17.87	17.88	17.86	19.30
		120	60	17.92	17.82	17.87	19.30
		243	0	17.84	17.79	17.80	19.30
	DFT-s-OFDM QPSK	1	1	17.95	17.80	17.79	19.30
		1	243	18.01	17.79	17.44	19.30
		120	60	17.73	17.90	17.94	19.30
		243	0	17.61	17.77	17.55	19.30
	DFT-s-OFDM 16QAM	1	1	17.89	17.82	17.92	19.30
		1	243	18.00	17.96	17.99	19.30
		120	60	17.98	17.91	18.01	19.30
	DFT-s-OFDM 64QAM	1	1	17.71	17.63	17.73	19.30
		1	243	18.09	18.03	18.12	19.30
		120	60	17.93	17.88	17.98	19.30

	DFT-s-OFDM 256QAM	1	1	17.81	17.76	17.85	19.30
		1	243	17.65	17.55	17.66	19.30
		120	60	17.88	17.82	17.89	19.30
	CP-OFDM QPSK	1	1	17.82	17.79	17.86	19.30
	CP-OFDM 16QAM	1	1	18.07	18.02	18.12	19.30
	CP-OFDM 64QAM	1	1	17.77	17.71	17.82	18.00
	CP-OFDM 256QAM	1	1	15.84	15.79	15.87	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	17.93	17.86	17.88	19.30
		1	271	17.86	17.84	17.84	19.30
		135	67	17.90	17.81	17.84	19.30
		270	0	17.81	17.74	17.76	19.30
	DFT-s-OFDM QPSK	1	1	17.93	17.76	17.76	19.30
		1	271	17.98	17.74	17.40	19.30
		135	67	17.70	17.85	17.90	19.30
		270	0	17.58	17.73	17.50	19.30
	DFT-s-OFDM 16QAM	1	1	17.86	17.80	17.88	19.30
		1	271	17.97	17.93	17.97	19.30
		135	67	17.95	17.87	17.98	19.30
	DFT-s-OFDM 64QAM	1	1	17.68	17.61	17.70	19.30
		1	271	18.06	17.98	18.08	19.30
		135	67	17.91	17.84	17.95	19.30
	DFT-s-OFDM 256QAM	1	1	17.79	17.72	17.80	19.30
		1	271	17.61	17.53	17.62	19.30
		135	67	17.82	17.76	17.83	19.30
	CP-OFDM QPSK	1	1	17.77	17.71	17.79	19.30
	CP-OFDM 16QAM	1	1	18.03	17.98	18.06	19.30
	CP-OFDM 64QAM	1	1	17.74	17.66	17.78	18.00
	CP-OFDM 256QAM	1	1	15.82	15.75	15.84	18.00

NR n41 PC3							
Receiver off-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	20.20	20.24	20.26	21.40
		1	49	20.14	20.19	20.21	21.40
		25	12	20.24	20.19	20.39	21.40
		50	0	20.15	20.20	20.26	21.40
	DFT-s-OFDM QPSK	1	1	20.22	20.22	20.36	21.40
		1	49	20.34	20.21	19.97	21.40
		25	12	20.02	20.28	20.16	21.40
		50	0	19.99	20.13	20.13	21.40
	DFT-s-OFDM 16QAM	1	1	20.12	20.06	20.13	21.40
		1	49	20.16	20.15	20.12	21.40
		25	12	20.27	20.15	20.19	21.40
	DFT-s-OFDM 64QAM	1	1	20.06	19.95	20.01	21.40
		1	49	20.06	20.01	20.03	21.40
		25	12	20.31	20.29	20.31	21.40
	DFT-s-OFDM 256QAM	1	1	18.45	18.34	18.41	20.00
		1	49	18.48	18.26	18.40	20.00
		25	12	18.66	18.58	18.61	20.00
	CP-OFDM QPSK	1	1	20.09	20.01	20.05	21.40
	CP-OFDM 16QAM	1	1	20.42	20.34	20.41	21.40
	CP-OFDM 64QAM	1	1	19.71	19.66	19.68	21.00
	CP-OFDM 256QAM	1	1	15.89	15.87	16.06	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	20.17	20.20	20.23	21.40
		1	76	20.13	20.15	20.19	21.40
		36	18	20.22	20.18	20.36	21.40
		75	0	20.12	20.15	20.22	21.40
	DFT-s-OFDM QPSK	1	1	20.20	20.18	20.33	21.40
		1	76	20.31	20.16	19.93	21.40
		36	18	19.99	20.23	20.12	21.40
		75	0	19.96	20.09	20.08	21.40
	DFT-s-OFDM 16QAM	1	1	20.09	20.04	20.09	21.40
		1	76	20.13	20.12	20.10	21.40
		36	18	20.24	20.11	20.16	21.40

	DFT-s-OFDM 64QAM	1	1	20.03	19.93	19.98	21.40
		1	76	20.03	19.96	19.99	21.40
		36	18	20.29	20.25	20.28	21.40
	DFT-s-OFDM 256QAM	1	1	18.43	18.30	18.36	20.00
		1	76	18.44	18.24	18.36	20.00
		36	18	18.60	18.52	18.55	20.00
	CP-OFDM QPSK	1	1	20.04	19.93	19.98	21.40
	CP-OFDM 16QAM	1	1	20.38	20.30	20.35	21.40
	CP-OFDM 64QAM	1	1	19.68	19.61	19.64	21.00
	CP-OFDM 256QAM	1	1	15.87	15.83	16.03	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	20.13	20.12	20.18	21.40
		1	104	20.10	20.10	20.14	21.40
		50	25	20.17	20.12	20.29	21.40
		100	0	20.07	20.06	20.15	21.40
	DFT-s-OFDM QPSK	1	1	20.15	20.09	20.26	21.40
		1	104	20.25	20.08	19.85	21.40
		50	25	19.94	20.14	20.03	21.40
		100	0	19.91	20.03	20.01	21.40
	DFT-s-OFDM 16QAM	1	1	20.04	19.99	20.03	21.40
		1	104	20.08	20.05	20.05	21.40
		50	25	20.18	20.05	20.10	21.40
	DFT-s-OFDM 64QAM	1	1	19.97	19.86	19.91	21.40
		1	104	19.98	19.87	19.92	21.40
		50	25	20.24	20.16	20.21	21.40
	DFT-s-OFDM 256QAM	1	1	18.36	18.24	18.29	20.00
		1	104	18.38	18.19	18.30	20.00
		50	25	18.55	18.45	18.50	20.00
	CP-OFDM QPSK	1	1	19.98	19.87	19.92	21.40
	CP-OFDM 16QAM	1	1	20.32	20.23	20.28	21.40
	CP-OFDM 64QAM	1	1	19.63	19.52	19.57	21.00
	CP-OFDM 256QAM	1	1	15.82	15.74	15.96	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	20.10	20.10	20.14	21.40
		1	131	20.08	20.06	20.11	21.40
		64	32	20.14	20.07	20.25	21.40
		128	0	20.04	20.01	20.11	21.40
	DFT-s-OFDM QPSK	1	1	20.13	20.05	20.21	21.40
		1	131	20.23	20.06	19.81	21.40
		64	32	19.94	20.13	20.01	21.40
		128	0	19.91	19.99	19.98	21.40
	DFT-s-OFDM 16QAM	1	1	20.04	19.97	20.00	21.40
		1	131	20.05	20.03	20.01	21.40
		64	32	20.16	20.01	20.07	21.40
	DFT-s-OFDM 64QAM	1	1	19.94	19.81	19.87	21.40
		1	131	19.95	19.82	19.88	21.40
		64	32	20.22	20.12	20.16	21.40
	DFT-s-OFDM 256QAM	1	1	18.33	18.24	18.26	20.00
		1	131	18.35	18.21	18.27	20.00
		64	32	18.56	18.43	18.46	20.00
	CP-OFDM QPSK	1	1	19.96	19.83	19.93	21.40
	CP-OFDM 16QAM	1	1	20.29	20.18	20.24	21.40
	CP-OFDM 64QAM	1	1	19.60	19.47	19.53	21.00
	CP-OFDM 256QAM	1	1	15.80	15.70	15.91	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	20.21	20.28	20.28	21.40
		1	160	20.16	20.20	20.24	21.40
		81	40	20.27	20.24	20.43	21.40
		162	0	20.17	20.24	20.29	21.40
	DFT-s-OFDM QPSK	1	1	20.25	20.27	20.40	21.40
		1	160	20.37	20.24	20.01	21.40
		81	40	20.04	20.32	20.21	21.40
		162	0	20.01	20.15	20.15	21.40
	DFT-s-OFDM 16QAM	1	1	20.14	20.09	20.15	21.40
		1	160	20.18	20.19	20.15	21.40
		81	40	20.30	20.17	20.22	21.40
	DFT-s-OFDM 64QAM	1	1	20.09	20.00	20.05	21.40
		1	160	20.08	20.05	20.06	21.40
		81	40	20.34	20.34	20.35	21.40

	DFT-s-OFDM 256QAM	1	1	18.50	18.36	18.43	20.00
		1	160	18.50	18.29	18.42	20.00
		81	40	18.65	18.59	18.60	20.00
	CP-OFDM QPSK	1	1	20.10	19.99	20.04	21.40
	CP-OFDM 16QAM	1	1	20.44	20.37	20.42	21.40
	CP-OFDM 64QAM	1	1	19.73	19.70	19.71	21.00
	CP-OFDM 256QAM	1	1	15.92	15.92	16.10	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	20.16	20.16	20.21	21.40
		1	215	20.11	20.14	20.16	21.40
		108	54	20.19	20.13	20.32	21.40
		216	0	20.10	20.11	20.19	21.40
	DFT-s-OFDM QPSK	1	1	20.17	20.13	20.29	21.40
		1	215	20.28	20.13	19.89	21.40
		108	54	19.97	20.19	20.07	21.40
		216	0	19.94	20.07	20.06	21.40
	DFT-s-OFDM 16QAM	1	1	20.07	20.01	20.07	21.40
		1	215	20.11	20.08	20.07	21.40
		108	54	20.21	20.09	20.13	21.40
	DFT-s-OFDM 64QAM	1	1	20.00	19.88	19.94	21.40
		1	215	20.01	19.92	19.96	21.40
		108	54	20.26	20.20	20.24	21.40
	DFT-s-OFDM 256QAM	1	1	18.38	18.28	18.34	20.00
		1	215	18.42	18.21	18.34	20.00
		108	54	18.61	18.51	18.56	20.00
	CP-OFDM QPSK	1	1	20.03	19.95	19.99	21.40
	CP-OFDM 16QAM	1	1	20.36	20.27	20.34	21.40
	CP-OFDM 64QAM	1	1	19.66	19.57	19.61	21.00
	CP-OFDM 256QAM	1	1	15.84	15.78	15.99	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	20.12	20.11	20.17	21.40
		1	243	20.11	20.11	20.15	21.40
		120	60	20.16	20.11	20.28	21.40

		243	0	20.07	20.06	20.15	21.40
	DFT-s-OFDM QPSK	1	1	20.16	20.10	20.25	21.40
		1	243	20.25	20.10	19.86	21.40
		120	60	19.98	20.15	20.05	21.40
		243	0	19.95	20.02	20.00	21.40
	DFT-s-OFDM 16QAM	1	1	20.08	20.01	20.03	21.40
		1	243	20.08	20.05	20.04	21.40
		120	60	20.19	20.06	20.11	21.40
	DFT-s-OFDM 64QAM	1	1	19.96	19.85	19.90	21.40
		1	243	19.98	19.87	19.92	21.40
		120	60	20.25	20.17	20.20	21.40
	DFT-s-OFDM 256QAM	1	1	18.35	18.23	18.28	20.00
		1	243	18.38	18.21	18.30	20.00
		120	60	18.55	18.45	18.49	20.00
	CP-OFDM QPSK	1	1	19.99	19.88	19.93	21.40
	CP-OFDM 16QAM	1	1	20.31	20.22	20.27	21.40
	CP-OFDM 64QAM	1	1	19.63	19.52	19.57	21.00
	CP-OFDM 256QAM	1	1	15.83	15.75	15.95	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	20.08	20.03	20.12	21.40
		1	271	20.08	20.06	20.10	21.40
		135	67	20.11	20.05	20.21	21.40
		270	0	20.02	19.97	20.08	21.40
	DFT-s-OFDM QPSK	1	1	20.11	20.01	20.18	21.40
		1	271	20.19	20.02	19.78	21.40
		135	67	19.93	20.06	19.96	21.40
		270	0	19.90	19.96	19.93	21.40
	DFT-s-OFDM 16QAM	1	1	20.03	19.96	19.97	21.40
		1	271	20.03	19.98	19.99	21.40
		135	67	20.13	20.00	20.05	21.40
	DFT-s-OFDM 64QAM	1	1	19.90	19.78	19.83	21.40
		1	271	19.93	19.78	19.85	21.40
		135	67	20.20	20.08	20.13	21.40
	DFT-s-OFDM 256QAM	1	1	18.28	18.17	18.21	20.00
		1	271	18.32	18.16	18.24	20.00
		135	67	18.50	18.38	18.44	20.00
	CP-OFDM QPSK	1	1	19.93	19.82	19.87	21.40

	CP-OFDM 16QAM	1	1	20.25	20.15	20.20	21.40
	CP-OFDM 64QAM	1	1	19.58	19.43	19.50	21.00
	CP-OFDM 256QAM	1	1	15.78	15.66	15.88	18.00

NR n41 PC3							
Hotspot on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	15.69	15.65	15.63	16.70
		1	49	15.64	15.58	15.64	16.70
		25	12	15.92	15.78	15.88	16.70
		50	0	15.74	15.69	15.72	16.70
	DFT-s-OFDM QPSK	1	1	15.43	15.71	15.83	16.70
		1	49	15.78	15.66	15.51	16.70
		25	12	15.59	15.84	15.73	16.70
		50	0	15.58	15.62	15.71	16.70
	DFT-s-OFDM 16QAM	1	1	15.70	15.61	15.64	16.70
		1	49	15.72	15.70	15.57	16.70
		25	12	15.86	15.73	15.84	16.70
	DFT-s-OFDM 64QAM	1	1	15.58	15.48	15.69	16.70
		1	49	15.62	15.53	16.04	16.70
		25	12	15.85	15.79	15.91	16.70
	DFT-s-OFDM 256QAM	1	1	15.61	15.55	15.49	16.70
		1	49	15.55	15.53	15.65	16.70
		25	12	15.79	15.73	15.66	16.70
	CP-OFDM QPSK	1	1	15.60	15.53	15.83	16.70
	CP-OFDM 16QAM	1	1	15.96	15.88	15.54	16.70
	CP-OFDM 64QAM	1	1	15.81	15.78	15.57	16.70
	CP-OFDM 256QAM	1	1	15.37	15.35	15.81	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	15.71	15.66	15.66	16.70
		1	76	15.67	15.63	15.68	16.70
		36	18	15.94	15.82	15.91	16.70
		75	0	15.77	15.74	15.76	16.70
	DFT-s-OFDM	1	1	15.46	15.76	15.87	16.70

	QPSK	1	76	15.80	15.70	15.56	16.70
		36	18	15.63	15.86	15.77	16.70
		75	0	15.62	15.65	15.73	16.70
	DFT-s-OFDM 16QAM	1	1	15.74	15.65	15.67	16.70
		1	76	15.75	15.72	15.60	16.70
		36	18	15.89	15.78	15.88	16.70
	DFT-s-OFDM 64QAM	1	1	15.60	15.52	15.72	16.70
		1	76	15.65	15.58	16.08	16.70
		36	18	15.88	15.84	15.95	16.70
	DFT-s-OFDM 256QAM	1	1	15.63	15.54	15.51	16.70
		1	76	15.58	15.53	15.68	16.70
		36	18	15.78	15.75	15.69	16.70
	CP-OFDM QPSK	1	1	15.63	15.58	15.83	16.70
	CP-OFDM 16QAM	1	1	15.98	15.92	15.57	16.70
	CP-OFDM 64QAM	1	1	15.84	15.83	15.61	16.70
	CP-OFDM 256QAM	1	1	15.40	15.40	15.85	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	15.70	15.62	15.64	16.70
		1	104	15.65	15.62	15.65	16.70
		50	25	15.91	15.77	15.87	16.70
		100	0	15.75	15.70	15.73	16.70
	DFT-s-OFDM QPSK	1	1	15.43	15.71	15.83	16.70
		1	104	15.77	15.67	15.52	16.70
		50	25	15.61	15.82	15.72	16.70
		100	0	15.60	15.63	15.71	16.70
	DFT-s-OFDM 16QAM	1	1	15.72	15.62	15.65	16.70
		1	104	15.73	15.68	15.57	16.70
		50	25	15.86	15.76	15.85	16.70
	DFT-s-OFDM 64QAM	1	1	15.57	15.47	15.68	16.70
		1	104	15.63	15.54	16.05	16.70
		50	25	15.85	15.79	15.91	16.70
	DFT-s-OFDM 256QAM	1	1	15.58	15.52	15.49	16.70
		1	104	15.56	15.50	15.66	16.70
		50	25	15.79	15.74	15.70	16.70
	CP-OFDM QPSK	1	1	15.62	15.60	15.84	16.70
	CP-OFDM 16QAM	1	1	15.96	15.89	15.56	16.70

	CP-OFDM 64QAM	1	1	15.82	15.79	15.58	16.70
	CP-OFDM 256QAM	1	1	15.37	15.35	15.81	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	15.73	15.73	15.68	16.70
		1	131	15.67	15.63	15.69	16.70
		64	32	15.97	15.84	15.95	16.70
		128	0	15.79	15.78	15.79	16.70
	DFT-s-OFDM QPSK	1	1	15.48	15.80	15.90	16.70
		1	131	15.84	15.74	15.59	16.70
		64	32	15.64	15.93	15.82	16.70
		128	0	15.63	15.68	15.78	16.70
	DFT-s-OFDM 16QAM	1	1	15.75	15.66	15.70	16.70
		1	131	15.77	15.77	15.62	16.70
		64	32	15.92	15.79	15.90	16.70
	DFT-s-OFDM 64QAM	1	1	15.64	15.55	15.76	16.70
		1	131	15.67	15.62	16.11	16.70
		64	32	15.90	15.88	15.98	16.70
	DFT-s-OFDM 256QAM	1	1	15.68	15.61	15.56	16.70
		1	131	15.61	15.58	15.71	16.70
		64	32	15.84	15.80	15.71	16.70
	CP-OFDM QPSK	1	1	15.66	15.59	15.89	16.70
	CP-OFDM 16QAM	1	1	16.02	15.95	15.61	16.70
	CP-OFDM 64QAM	1	1	15.86	15.87	15.64	16.70
	CP-OFDM 256QAM	1	1	15.42	15.44	15.88	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	15.72	15.69	15.66	16.70
		1	160	15.65	15.62	15.66	16.70
		81	40	15.94	15.79	15.91	16.70
		162	0	15.77	15.74	15.76	16.70
	DFT-s-OFDM QPSK	1	1	15.45	15.75	15.86	16.70
		1	160	15.81	15.71	15.55	16.70
		81	40	15.62	15.89	15.77	16.70
		162	0	15.61	15.66	15.76	16.70
	DFT-s-OFDM 16QAM	1	1	15.73	15.63	15.68	16.70
		1	160	15.75	15.73	15.59	16.70

		81	40	15.89	15.77	15.87	16.70
	DFT-s-OFDM 64QAM	1	1	15.61	15.50	15.72	16.70
		1	160	15.65	15.58	16.08	16.70
		81	40	15.87	15.83	15.94	16.70
	DFT-s-OFDM 256QAM	1	1	15.63	15.59	15.54	16.70
		1	160	15.59	15.55	15.69	16.70
		81	40	15.85	15.79	15.72	16.70
	CP-OFDM QPSK	1	1	15.65	15.61	15.90	16.70
	CP-OFDM 16QAM	1	1	16.00	15.92	15.60	16.70
	CP-OFDM 64QAM	1	1	15.84	15.83	15.61	16.70
	CP-OFDM 256QAM	1	1	15.39	15.39	15.84	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	15.67	15.58	15.61	16.70
		1	215	15.64	15.58	15.63	16.70
		108	54	15.89	15.76	15.84	16.70
		216	0	15.72	15.65	15.69	16.70
	DFT-s-OFDM QPSK	1	1	15.41	15.67	15.80	16.70
		1	215	15.74	15.62	15.48	16.70
		108	54	15.58	15.77	15.68	16.70
		216	0	15.57	15.59	15.66	16.70
	DFT-s-OFDM 16QAM	1	1	15.69	15.60	15.61	16.70
		1	215	15.70	15.65	15.55	16.70
		108	54	15.83	15.72	15.82	16.70
	DFT-s-OFDM 64QAM	1	1	15.54	15.45	15.65	16.70
		1	215	15.60	15.49	16.01	16.70
		108	54	15.83	15.75	15.88	16.70
	DFT-s-OFDM 256QAM	1	1	15.56	15.48	15.44	16.70
		1	215	15.52	15.48	15.62	16.70
		108	54	15.73	15.68	15.64	16.70
	CP-OFDM QPSK	1	1	15.57	15.52	15.77	16.70
	CP-OFDM 16QAM	1	1	15.92	15.85	15.50	16.70
	CP-OFDM 64QAM	1	1	15.79	15.74	15.54	16.70
	CP-OFDM 256QAM	1	1	15.35	15.31	15.78	16.70

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	15.71	15.72	15.65	16.70
		1	243	15.64	15.58	15.65	16.70
		120	60	15.95	15.80	15.92	16.70
		243	0	15.76	15.73	15.75	16.70
	DFT-s-OFDM QPSK	1	1	15.45	15.75	15.86	16.70
		1	243	15.82	15.70	15.54	16.70
		120	60	15.60	15.91	15.78	16.70
		243	0	15.59	15.65	15.76	16.70
	DFT-s-OFDM 16QAM	1	1	15.71	15.62	15.67	16.70
		1	243	15.74	15.75	15.59	16.70
		120	60	15.89	15.74	15.86	16.70
	DFT-s-OFDM 64QAM	1	1	15.62	15.51	15.73	16.70
		1	243	15.64	15.57	16.07	16.70
		120	60	15.87	15.83	15.94	16.70
	DFT-s-OFDM 256QAM	1	1	15.66	15.62	15.54	16.70
		1	243	15.58	15.58	15.68	16.70
		120	60	15.85	15.78	15.68	16.70
	CP-OFDM QPSK	1	1	15.63	15.54	15.89	16.70
	CP-OFDM 16QAM	1	1	16.00	15.91	15.58	16.70
	CP-OFDM 64QAM	1	1	15.83	15.82	15.60	16.70
	CP-OFDM 256QAM	1	1	15.39	15.39	15.84	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	15.63	15.50	15.56	16.70
		1	271	15.61	15.53	15.58	16.70
		135	67	15.84	15.70	15.77	16.70
		270	0	15.67	15.56	15.62	16.70
	DFT-s-OFDM QPSK	1	1	15.36	15.58	15.73	16.70
		1	271	15.68	15.54	15.40	16.70
		135	67	15.53	15.68	15.59	16.70
		270	0	15.52	15.53	15.59	16.70
	DFT-s-OFDM 16QAM	1	1	15.64	15.55	15.55	16.70
		1	271	15.65	15.58	15.50	16.70
		135	67	15.77	15.66	15.76	16.70
	DFT-s-OFDM 64QAM	1	1	15.48	15.38	15.58	16.70
		1	271	15.55	15.40	15.94	16.70
		135	67	15.78	15.66	15.81	16.70

	DFT-s-OFDM 256QAM	1	1	15.49	15.42	15.37	16.70
		1	271	15.46	15.43	15.56	16.70
		135	67	15.68	15.61	15.59	16.70
	CP-OFDM QPSK	1	1	15.51	15.46	15.71	16.70
	CP-OFDM 16QAM	1	1	15.86	15.78	15.43	16.70
	CP-OFDM 64QAM	1	1	15.74	15.65	15.47	16.70
	CP-OFDM 256QAM	1	1	15.30	15.22	15.71	16.70

NR n41 PC3							
Receiver on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	21.59	21.63	21.73	22.20
		1	49	21.73	21.79	21.60	22.20
		25	12	21.57	21.74	21.80	22.20
		50	0	21.50	21.61	21.61	22.20
	DFT-s-OFDM QPSK	1	1	21.66	21.67	21.86	22.20
		1	49	21.82	21.92	21.95	22.20
		25	12	21.57	21.80	21.82	22.20
		50	0	20.87	21.03	21.05	22.20
	DFT-s-OFDM 16QAM	1	1	21.09	21.14	21.32	22.20
		1	49	21.40	21.40	21.31	22.20
		25	12	20.96	21.07	21.04	22.20
	DFT-s-OFDM 64QAM	1	1	19.48	19.35	19.61	21.00
		1	49	19.53	19.68	19.55	21.00
		25	12	19.39	19.62	19.71	21.00
	DFT-s-OFDM 256QAM	1	1	17.48	17.37	17.58	19.00
		1	49	17.55	17.62	17.57	19.00
		25	12	17.46	17.56	17.69	19.00
	CP-OFDM QPSK	1	1	20.46	20.41	20.52	22.00
	CP-OFDM 16QAM	1	1	20.11	20.01	20.17	21.50
	CP-OFDM 64QAM	1	1	18.30	18.38	18.34	20.00
	CP-OFDM 256QAM	1	1	15.59	15.57	15.71	17.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	21.55	21.55	21.68	22.20
		1	76	21.70	21.74	21.55	22.20
		36	18	21.52	21.68	21.73	22.20
		75	0	21.45	21.52	21.54	22.20
	DFT-s-OFDM QPSK	1	1	21.61	21.58	21.79	22.20
		1	76	21.76	21.84	21.87	22.20
		36	18	21.52	21.71	21.73	22.20
		75	0	20.82	20.97	20.98	22.20
	DFT-s-OFDM 16QAM	1	1	21.04	21.09	21.26	22.20
		1	76	21.35	21.33	21.26	22.20
		36	18	20.90	21.01	20.98	22.20
	DFT-s-OFDM 64QAM	1	1	19.42	19.28	19.54	21.00
		1	76	19.48	19.59	19.48	21.00
		36	18	19.34	19.53	19.64	21.00
	DFT-s-OFDM 256QAM	1	1	17.41	17.31	17.51	19.00
		1	76	17.49	17.57	17.51	19.00
		36	18	17.41	17.49	17.64	19.00
	CP-OFDM QPSK	1	1	20.40	20.35	20.46	22.00
	CP-OFDM 16QAM	1	1	20.05	19.94	20.10	21.50
	CP-OFDM 64QAM	1	1	18.25	18.29	18.27	20.00
	CP-OFDM 256QAM	1	1	15.54	15.48	15.64	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	21.58	21.59	21.71	22.20
		1	104	21.71	21.78	21.57	22.20
		50	25	21.54	21.69	21.76	22.20
		100	0	21.48	21.57	21.58	22.20
	DFT-s-OFDM QPSK	1	1	21.63	21.62	21.82	22.20
		1	104	21.79	21.89	21.91	22.20
		50	25	21.55	21.76	21.77	22.20
		100	0	20.85	21.01	21.03	22.20
	DFT-s-OFDM 16QAM	1	1	21.07	21.11	21.30	22.20
		1	104	21.38	21.36	21.28	22.20
		50	25	20.93	21.05	21.01	22.20
	DFT-s-OFDM 64QAM	1	1	19.45	19.30	19.57	21.00
		1	104	19.51	19.64	19.52	21.00
		50	25	19.36	19.57	19.67	21.00

	DFT-s-OFDM 256QAM	1	1	17.43	17.35	17.56	19.00
		1	104	17.53	17.59	17.55	19.00
		50	25	17.47	17.55	17.70	19.00
	CP-OFDM QPSK	1	1	20.45	20.43	20.53	22.00
	CP-OFDM 16QAM	1	1	20.09	19.98	20.16	21.50
	CP-OFDM 64QAM	1	1	18.28	18.34	18.31	20.00
	CP-OFDM 256QAM	1	1	15.56	15.52	15.67	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	21.52	21.53	21.64	22.20
		1	131	21.68	21.70	21.52	22.20
		64	32	21.49	21.63	21.69	22.20
		128	0	21.42	21.47	21.50	22.20
	DFT-s-OFDM QPSK	1	1	21.59	21.54	21.74	22.20
		1	131	21.74	21.82	21.83	22.20
		64	32	21.52	21.70	21.71	22.20
		128	0	20.82	20.93	20.95	22.20
	DFT-s-OFDM 16QAM	1	1	21.04	21.07	21.23	22.20
		1	131	21.32	21.31	21.22	22.20
		64	32	20.88	20.97	20.95	22.20
	DFT-s-OFDM 64QAM	1	1	19.39	19.23	19.50	21.00
		1	131	19.45	19.54	19.44	21.00
		64	32	19.32	19.49	19.59	21.00
	DFT-s-OFDM 256QAM	1	1	17.38	17.31	17.48	19.00
		1	131	17.46	17.59	17.48	19.00
		64	32	17.42	17.47	17.60	19.00
	CP-OFDM QPSK	1	1	20.38	20.31	20.47	22.00
	CP-OFDM 16QAM	1	1	20.02	19.89	20.06	21.50
	CP-OFDM 64QAM	1	1	18.22	18.24	18.23	20.00
	CP-OFDM 256QAM	1	1	15.52	15.44	15.59	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	21.57	21.62	21.70	22.20
		1	160	21.70	21.74	21.56	22.20
		81	40	21.55	21.70	21.77	22.20

		162	0	21.47	21.56	21.57	22.20
	DFT-s-OFDM QPSK	1	1	21.63	21.62	21.82	22.20
		1	160	21.80	21.88	21.90	22.20
		81	40	21.53	21.78	21.78	22.20
		162	0	20.83	21.00	21.03	22.20
	DFT-s-OFDM 16QAM	1	1	21.05	21.10	21.29	22.20
		1	160	21.37	21.38	21.28	22.20
		81	40	20.93	21.02	21.00	22.20
	DFT-s-OFDM 64QAM	1	1	19.46	19.31	19.58	21.00
		1	160	19.50	19.63	19.51	21.00
		81	40	19.36	19.57	19.67	21.00
	DFT-s-OFDM 256QAM	1	1	17.46	17.38	17.56	19.00
		1	160	17.52	17.62	17.54	19.00
		81	40	17.47	17.54	17.66	19.00
	CP-OFDM QPSK	1	1	20.43	20.36	20.52	22.00
	CP-OFDM 16QAM	1	1	20.09	19.97	20.14	21.50
	CP-OFDM 64QAM	1	1	18.27	18.33	18.30	20.00
	CP-OFDM 256QAM	1	1	15.56	15.52	15.67	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	21.54	21.54	21.67	22.20
		1	215	21.71	21.75	21.56	22.20
		108	54	21.51	21.67	21.72	22.20
		216	0	21.45	21.52	21.54	22.20
	DFT-s-OFDM QPSK	1	1	21.62	21.59	21.78	22.20
		1	215	21.76	21.86	21.88	22.20
		108	54	21.56	21.72	21.75	22.20
		216	0	20.86	20.96	20.97	22.20
	DFT-s-OFDM 16QAM	1	1	21.08	21.11	21.26	22.20
		1	215	21.35	21.33	21.25	22.20
		108	54	20.91	21.02	20.99	22.20
	DFT-s-OFDM 64QAM	1	1	19.41	19.27	19.53	21.00
		1	215	19.48	19.59	19.48	21.00
		108	54	19.35	19.54	19.63	21.00
	DFT-s-OFDM 256QAM	1	1	17.40	17.30	17.50	19.00
		1	215	17.49	17.59	17.51	19.00
		108	54	17.41	17.49	17.63	19.00
	CP-OFDM QPSK	1	1	20.41	20.36	20.47	22.00

	CP-OFDM 16QAM	1	1	20.04	19.93	20.09	21.50
	CP-OFDM 64QAM	1	1	18.25	18.29	18.27	20.00
	CP-OFDM 256QAM	1	1	15.55	15.49	15.63	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	21.60	21.64	21.74	22.20
		1	243	21.72	21.78	21.59	22.20
		120	60	21.58	21.75	21.81	22.20
		243	0	21.50	21.61	21.61	22.20
	DFT-s-OFDM QPSK	1	1	21.65	21.66	21.87	22.20
		1	243	21.82	21.90	21.94	22.20
		120	60	21.53	21.79	21.80	22.20
		243	0	20.83	21.04	21.06	22.20
	DFT-s-OFDM 16QAM	1	1	21.05	21.12	21.32	22.20
		1	243	21.40	21.40	21.32	22.20
		120	60	20.95	21.06	21.03	22.20
	DFT-s-OFDM 64QAM	1	1	19.49	19.36	19.62	21.00
		1	243	19.53	19.68	19.55	21.00
		120	60	19.38	19.61	19.72	21.00
	DFT-s-OFDM 256QAM	1	1	17.49	17.38	17.59	19.00
		1	243	17.55	17.60	17.57	19.00
		120	60	17.46	17.56	17.70	19.00
	CP-OFDM QPSK	1	1	20.45	20.40	20.51	22.00
	CP-OFDM 16QAM	1	1	20.12	20.02	20.18	21.50
	CP-OFDM 64QAM	1	1	18.30	18.38	18.34	20.00
	CP-OFDM 256QAM	1	1	15.58	15.56	15.72	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	21.50	21.46	21.62	22.20
		1	271	21.68	21.70	21.51	22.20
		135	67	21.46	21.61	21.65	22.20
		270	0	21.40	21.43	21.47	22.20
	DFT-s-OFDM QPSK	1	1	21.57	21.50	21.71	22.20
		1	271	21.70	21.78	21.80	22.20
		135	67	21.51	21.63	21.66	22.20
		270	0	20.81	20.90	20.90	22.20

	DFT-s-OFDM 16QAM	1	1	21.03	21.06	21.20	22.20
		1	271	21.30	21.26	21.20	22.20
		135	67	20.85	20.96	20.93	22.20
	DFT-s-OFDM 64QAM	1	1	19.35	19.20	19.46	21.00
		1	271	19.43	19.50	19.41	21.00
		135	67	19.30	19.45	19.56	21.00
	DFT-s-OFDM 256QAM	1	1	17.33	17.24	17.43	19.00
		1	271	17.43	17.54	17.45	19.00
		135	67	17.36	17.42	17.58	19.00
	CP-OFDM QPSK	1	1	20.35	20.30	20.41	22.00
	CP-OFDM 16QAM	1	1	19.98	19.86	20.02	21.50
	CP-OFDM 64QAM	1	1	18.20	18.20	18.20	20.00
	CP-OFDM 256QAM	1	1	15.50	15.40	15.56	17.00

NR n41 PC3							
Receiver off-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	19.44	19.39	19.37	20.40
		1	49	19.43	19.42	19.41	20.40
		25	12	19.25	19.15	19.22	20.40
		50	0	19.23	19.17	19.17	20.40
	DFT-s-OFDM QPSK	1	1	19.36	19.08	19.32	20.40
		1	49	19.33	19.27	19.40	20.40
		25	12	19.10	19.13	19.19	20.40
		50	0	19.02	19.12	19.18	20.40
	DFT-s-OFDM 16QAM	1	1	19.88	19.80	19.64	20.40
		1	49	19.94	19.99	19.54	20.40
		25	12	19.80	19.77	19.84	20.40
	DFT-s-OFDM 64QAM	1	1	18.92	19.04	19.05	20.40
		1	49	18.94	19.24	19.02	20.40
		25	12	19.19	19.40	19.03	20.40
	DFT-s-OFDM 256QAM	1	1	17.07	17.47	17.17	19.00
		1	49	17.25	17.61	17.25	19.00
		25	12	17.34	17.54	17.43	19.00
	CP-OFDM QPSK	1	1	19.52	19.81	19.80	20.40
	CP-OFDM 16QAM	1	1	19.81	19.81	19.90	20.40

	CP-OFDM 64QAM	1	1	18.14	18.33	18.07	20.00
	CP-OFDM 256QAM	1	1	15.23	15.32	15.13	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	19.41	19.35	19.34	20.40
		1	76	19.42	19.38	19.39	20.40
		36	18	19.23	19.14	19.19	20.40
		75	0	19.20	19.12	19.13	20.40
	DFT-s-OFDM QPSK	1	1	19.34	19.04	19.29	20.40
		1	76	19.30	19.22	19.36	20.40
		36	18	19.07	19.08	19.15	20.40
		75	0	18.99	19.08	19.13	20.40
	DFT-s-OFDM 16QAM	1	1	19.90	19.81	19.67	20.40
		1	76	19.97	20.04	19.58	20.40
		36	18	19.82	19.81	19.87	20.40
	DFT-s-OFDM 64QAM	1	1	18.95	19.09	19.09	20.40
		1	76	18.97	19.29	19.06	20.40
		36	18	19.21	19.44	19.08	20.40
	DFT-s-OFDM 256QAM	1	1	17.11	17.49	17.21	19.00
		1	76	17.29	17.64	17.27	19.00
		36	18	17.38	17.58	17.46	19.00
	CP-OFDM QPSK	1	1	19.55	19.83	19.83	20.40
	CP-OFDM 16QAM	1	1	19.84	19.86	19.94	20.40
	CP-OFDM 64QAM	1	1	18.16	18.37	18.10	20.00
	CP-OFDM 256QAM	1	1	15.26	15.37	15.17	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	19.38	19.33	19.30	20.40
		1	104	19.40	19.34	19.36	20.40
		50	25	19.20	19.09	19.15	20.40
		100	0	19.17	19.07	19.09	20.40
	DFT-s-OFDM QPSK	1	1	19.32	19.00	19.24	20.40
		1	104	19.28	19.20	19.32	20.40
		50	25	19.07	19.07	19.13	20.40
		100	0	18.99	19.04	19.10	20.40
	DFT-s-OFDM 16QAM	1	1	19.89	19.77	19.65	20.40
		1	104	19.95	20.03	19.55	20.40

		50	25	19.79	19.76	19.83	20.40
	DFT-s-OFDM 64QAM	1	1	18.93	19.05	19.06	20.40
		1	104	18.94	19.24	19.02	20.40
		50	25	19.18	19.41	19.04	20.40
	DFT-s-OFDM 256QAM	1	1	17.09	17.45	17.16	19.00
		1	104	17.27	17.62	17.25	19.00
		50	25	17.36	17.55	17.44	19.00
	CP-OFDM QPSK	1	1	19.53	19.79	19.80	20.40
	CP-OFDM 16QAM	1	1	19.81	19.84	19.91	20.40
	CP-OFDM 64QAM	1	1	18.13	18.32	18.06	20.00
	CP-OFDM 256QAM	1	1	15.24	15.33	15.14	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	19.45	19.43	19.39	20.40
		1	131	19.45	19.43	19.44	20.40
		64	32	19.28	19.20	19.26	20.40
		128	0	19.25	19.21	19.20	20.40
	DFT-s-OFDM QPSK	1	1	19.39	19.13	19.36	20.40
		1	131	19.36	19.30	19.44	20.40
		64	32	19.12	19.17	19.24	20.40
		128	0	19.04	19.14	19.20	20.40
	DFT-s-OFDM 16QAM	1	1	19.91	19.82	19.68	20.40
		1	131	19.96	20.03	19.57	20.40
		64	32	19.83	19.82	19.88	20.40
	DFT-s-OFDM 64QAM	1	1	18.95	19.09	19.09	20.40
		1	131	18.96	19.28	19.07	20.40
		64	32	19.21	19.42	19.07	20.40
	DFT-s-OFDM 256QAM	1	1	17.07	17.48	17.19	19.00
		1	131	17.25	17.65	17.28	19.00
		64	32	17.34	17.56	17.46	19.00
	CP-OFDM QPSK	1	1	19.55	19.83	19.84	20.40
	CP-OFDM 16QAM	1	1	19.83	19.85	19.93	20.40
	CP-OFDM 64QAM	1	1	18.17	18.38	18.11	20.00
	CP-OFDM 256QAM	1	1	15.26	15.37	15.17	17.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	19.40	19.34	19.33	20.40
		1	160	19.43	19.39	19.40	20.40
		81	40	19.22	19.13	19.18	20.40
		162	0	19.20	19.12	19.13	20.40
	DFT-s-OFDM QPSK	1	1	19.35	19.05	19.28	20.40
		1	160	19.30	19.24	19.37	20.40
		81	40	19.11	19.09	19.17	20.40
		162	0	19.03	19.07	19.12	20.40
	DFT-s-OFDM 16QAM	1	1	19.94	19.86	19.71	20.40
		1	160	19.97	20.07	19.59	20.40
		81	40	19.85	19.83	19.91	20.40
	DFT-s-OFDM 64QAM	1	1	18.98	19.14	19.13	20.40
		1	160	18.98	19.32	19.10	20.40
		81	40	19.24	19.47	19.11	20.40
	DFT-s-OFDM 256QAM	1	1	17.10	17.53	17.23	19.00
		1	160	17.28	17.69	17.33	19.00
		81	40	17.37	17.58	17.50	19.00
	CP-OFDM QPSK	1	1	19.58	19.86	19.86	20.40
	CP-OFDM 16QAM	1	1	19.86	19.89	19.96	20.40
	CP-OFDM 64QAM	1	1	18.20	18.40	18.14	20.00
	CP-OFDM 256QAM	1	1	15.29	15.42	15.21	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	19.39	19.30	19.31	20.40
		1	215	19.41	19.38	19.37	20.40
		108	54	19.19	19.08	19.14	20.40
		216	0	19.18	19.08	19.10	20.40
	DFT-s-OFDM QPSK	1	1	19.32	19.00	19.24	20.40
		1	215	19.27	19.21	19.33	20.40
		108	54	19.09	19.05	19.12	20.40
		216	0	19.01	19.05	19.10	20.40
	DFT-s-OFDM 16QAM	1	1	19.95	19.90	19.73	20.40
		1	215	19.99	20.08	19.62	20.40
		108	54	19.88	19.88	19.95	20.40
	DFT-s-OFDM 64QAM	1	1	19.00	19.18	19.16	20.40
		1	215	19.01	19.37	19.14	20.40
		108	54	19.27	19.50	19.15	20.40

	DFT-s-OFDM 256QAM	1	1	17.12	17.57	17.28	19.00
		1	215	17.30	17.71	17.35	19.00
		108	54	17.39	17.61	17.52	19.00
	CP-OFDM QPSK	1	1	19.60	19.90	19.89	20.40
	CP-OFDM 16QAM	1	1	19.89	19.91	19.99	20.40
	CP-OFDM 64QAM	1	1	18.23	18.45	18.18	20.00
	CP-OFDM 256QAM	1	1	15.31	15.46	15.24	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	19.43	19.42	19.36	20.40
		1	243	19.42	19.38	19.40	20.40
		120	60	19.26	19.16	19.23	20.40
		243	0	19.22	19.16	19.16	20.40
	DFT-s-OFDM QPSK	1	1	19.36	19.08	19.32	20.40
		1	243	19.34	19.26	19.39	20.40
		120	60	19.08	19.15	19.20	20.40
		243	0	19.00	19.11	19.18	20.40
	DFT-s-OFDM 16QAM	1	1	19.93	19.89	19.70	20.40
		1	243	19.96	20.03	19.58	20.40
		120	60	19.86	19.84	19.92	20.40
	DFT-s-OFDM 64QAM	1	1	18.97	19.13	19.12	20.40
		1	243	18.98	19.32	19.10	20.40
		120	60	19.25	19.46	19.10	20.40
	DFT-s-OFDM 256QAM	1	1	17.08	17.55	17.24	19.00
		1	243	17.26	17.68	17.33	19.00
		120	60	17.35	17.57	17.49	19.00
	CP-OFDM QPSK	1	1	19.57	19.88	19.86	20.40
	CP-OFDM 16QAM	1	1	19.86	19.86	19.95	20.40
	CP-OFDM 64QAM	1	1	18.21	18.41	18.15	20.00
	CP-OFDM 256QAM	1	1	15.28	15.41	15.20	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	19.36	19.26	19.28	20.40
		1	271	19.40	19.34	19.35	20.40
		135	67	19.17	19.07	19.11	20.40

		270	0	19.15	19.03	19.06	20.40
	DFT-s-OFDM QPSK	1	1	19.30	18.96	19.21	20.40
		1	271	19.24	19.16	19.29	20.40
		135	67	19.06	19.00	19.08	20.40
		270	0	18.98	19.01	19.05	20.40
	DFT-s-OFDM 16QAM	1	1	19.86	19.73	19.62	20.40
		1	271	19.94	19.99	19.53	20.40
		135	67	19.77	19.75	19.80	20.40
	DFT-s-OFDM 64QAM	1	1	18.90	19.00	19.02	20.40
		1	271	18.92	19.20	18.99	20.40
		135	67	19.15	19.36	19.00	20.40
	DFT-s-OFDM 256QAM	1	1	17.06	17.40	17.12	19.00
		1	271	17.24	17.58	17.20	19.00
		135	67	17.33	17.53	17.40	19.00
	CP-OFDM QPSK	1	1	19.50	19.76	19.78	20.40
	CP-OFDM 16QAM	1	1	19.78	19.80	19.88	20.40
	CP-OFDM 64QAM	1	1	18.10	18.30	18.03	20.00
	CP-OFDM 256QAM	1	1	15.21	15.28	15.10	17.00

NR n41 PC3							
Hotspot on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	14.11	14.02	14.07	15.50
		1	49	14.42	14.34	14.39	15.50
		25	12	14.19	14.07	14.14	15.50
		50	0	14.16	14.04	14.11	15.50
	DFT-s-OFDM QPSK	1	1	14.12	13.93	14.11	15.50
		1	49	14.16	14.22	14.22	15.50
		25	12	13.96	14.01	14.10	15.50
		50	0	13.97	14.01	14.15	15.50
	DFT-s-OFDM 16QAM	1	1	13.80	13.68	13.79	15.50
		1	49	14.12	14.04	14.09	15.50
		25	12	14.18	14.04	14.10	15.50
	DFT-s-OFDM 64QAM	1	1	13.99	13.88	13.93	15.50
		1	49	14.37	14.25	14.31	15.50
		25	12	14.18	14.08	14.15	15.50
	DFT-s-OFDM 256QAM	1	1	14.08	13.92	14.01	15.50
		1	49	14.30	14.11	14.22	15.50

		25	12	14.12	14.02	14.07	15.50
	CP-OFDM QPSK	1	1	13.97	13.85	13.91	15.50
	CP-OFDM 16QAM	1	1	13.95	13.86	13.91	15.50
	CP-OFDM 64QAM	1	1	14.28	14.16	14.22	15.50
	CP-OFDM 256QAM	1	1	13.81	13.71	13.78	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	14.14	14.06	14.10	15.50
		1	76	14.43	14.38	14.41	15.50
		36	18	14.21	14.08	14.17	15.50
		75	0	14.19	14.09	14.15	15.50
	DFT-s-OFDM QPSK	1	1	14.14	13.97	14.14	15.50
		1	76	14.19	14.27	14.26	15.50
		36	18	13.99	14.06	14.14	15.50
		75	0	14.00	14.05	14.20	15.50
	DFT-s-OFDM 16QAM	1	1	13.83	13.70	13.83	15.50
		1	76	14.15	14.07	14.11	15.50
		36	18	14.21	14.08	14.13	15.50
	DFT-s-OFDM 64QAM	1	1	14.02	13.90	13.96	15.50
		1	76	14.40	14.30	14.35	15.50
		36	18	14.20	14.12	14.18	15.50
	DFT-s-OFDM 256QAM	1	1	14.10	13.96	14.06	15.50
		1	76	14.34	14.13	14.26	15.50
		36	18	14.18	14.08	14.13	15.50
	CP-OFDM QPSK	1	1	14.02	13.93	13.98	15.50
	CP-OFDM 16QAM	1	1	13.99	13.90	13.97	15.50
	CP-OFDM 64QAM	1	1	14.31	14.21	14.26	15.50
	CP-OFDM 256QAM	1	1	13.83	13.75	13.81	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	14.08	14.00	14.03	15.50
		1	104	14.40	14.30	14.36	15.50
		50	25	14.16	14.02	14.10	15.50
		100	0	14.13	13.99	14.07	15.50
	DFT-s-OFDM	1	1	14.10	13.89	14.06	15.50

	QPSK	1	104	14.14	14.20	14.18	15.50
		50	25	13.96	14.00	14.08	15.50
		100	0	13.97	13.97	14.12	15.50
	DFT-s-OFDM 16QAM	1	1	13.80	13.66	13.76	15.50
		1	104	14.09	14.02	14.05	15.50
		50	25	14.16	14.00	14.07	15.50
	DFT-s-OFDM 64QAM	1	1	13.96	13.83	13.89	15.50
		1	104	14.34	14.20	14.27	15.50
		50	25	14.16	14.04	14.10	15.50
	DFT-s-OFDM 256QAM	1	1	14.05	13.92	13.98	15.50
		1	104	14.27	14.13	14.19	15.50
		50	25	14.13	14.00	14.03	15.50
	CP-OFDM QPSK	1	1	13.95	13.81	13.92	15.50
	CP-OFDM 16QAM	1	1	13.92	13.81	13.87	15.50
	CP-OFDM 64QAM	1	1	14.25	14.11	14.18	15.50
	CP-OFDM 256QAM	1	1	13.79	13.67	13.73	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	14.10	14.01	14.06	15.50
		1	131	14.43	14.35	14.40	15.50
		64	32	14.18	14.06	14.13	15.50
		128	0	14.16	14.04	14.11	15.50
	DFT-s-OFDM QPSK	1	1	14.13	13.94	14.10	15.50
		1	131	14.16	14.24	14.23	15.50
		64	32	14.00	14.02	14.12	15.50
		128	0	14.01	14.00	14.14	15.50
	DFT-s-OFDM 16QAM	1	1	13.84	13.70	13.79	15.50
		1	131	14.12	14.04	14.08	15.50
		64	32	14.19	14.05	14.11	15.50
	DFT-s-OFDM 64QAM	1	1	13.98	13.87	13.92	15.50
		1	131	14.37	14.25	14.31	15.50
		64	32	14.19	14.09	14.14	15.50
	DFT-s-OFDM 256QAM	1	1	14.07	13.91	14.00	15.50
		1	131	14.30	14.13	14.22	15.50
		64	32	14.12	14.02	14.06	15.50
	CP-OFDM QPSK	1	1	13.98	13.86	13.92	15.50
	CP-OFDM 16QAM	1	1	13.94	13.85	13.90	15.50

	CP-OFDM 64QAM	1	1	14.28	14.16	14.22	15.50
	CP-OFDM 256QAM	1	1	13.82	13.72	13.77	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	14.13	14.09	14.09	15.50
		1	160	14.42	14.34	14.40	15.50
		81	40	14.22	14.09	14.18	15.50
		162	0	14.18	14.08	14.14	15.50
	DFT-s-OFDM QPSK	1	1	14.14	13.97	14.14	15.50
		1	160	14.20	14.26	14.25	15.50
		81	40	13.97	14.08	14.15	15.50
		162	0	13.98	14.04	14.20	15.50
	DFT-s-OFDM 16QAM	1	1	13.81	13.69	13.82	15.50
		1	160	14.14	14.09	14.11	15.50
		81	40	14.21	14.05	14.12	15.50
	DFT-s-OFDM 64QAM	1	1	14.03	13.91	13.97	15.50
		1	160	14.39	14.29	14.34	15.50
		81	40	14.20	14.12	14.18	15.50
	DFT-s-OFDM 256QAM	1	1	14.13	13.99	14.06	15.50
		1	160	14.33	14.16	14.25	15.50
		81	40	14.18	14.07	14.09	15.50
	CP-OFDM QPSK	1	1	14.00	13.86	13.97	15.50
	CP-OFDM 16QAM	1	1	13.99	13.89	13.95	15.50
	CP-OFDM 64QAM	1	1	14.30	14.20	14.25	15.50
	CP-OFDM 256QAM	1	1	13.83	13.75	13.81	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	14.15	14.10	14.12	15.50
		1	215	14.45	14.39	14.44	15.50
		108	54	14.24	14.13	14.21	15.50
		216	0	14.21	14.13	14.18	15.50
	DFT-s-OFDM QPSK	1	1	14.17	14.02	14.18	15.50
		1	215	14.22	14.30	14.30	15.50
		108	54	14.01	14.10	14.19	15.50
		216	0	14.02	14.07	14.22	15.50
	DFT-s-OFDM 16QAM	1	1	13.85	13.73	13.85	15.50
		1	215	14.17	14.11	14.14	15.50

		108	54	14.24	14.10	14.16	15.50
	DFT-s-OFDM 64QAM	1	1	14.05	13.95	14.00	15.50
		1	215	14.42	14.34	14.38	15.50
		108	54	14.23	14.17	14.22	15.50
	DFT-s-OFDM 256QAM	1	1	14.15	13.98	14.08	15.50
		1	215	14.36	14.16	14.28	15.50
		108	54	14.17	14.09	14.12	15.50
	CP-OFDM QPSK	1	1	14.03	13.91	13.97	15.50
	CP-OFDM 16QAM	1	1	14.01	13.93	13.98	15.50
	CP-OFDM 64QAM	1	1	14.33	14.25	14.29	15.50
	CP-OFDM 256QAM	1	1	13.86	13.80	13.85	15.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	14.09	13.97	14.04	15.50
		1	243	14.41	14.34	14.37	15.50
		120	60	14.15	14.01	14.09	15.50
		243	0	14.14	14.00	14.08	15.50
	DFT-s-OFDM QPSK	1	1	14.10	13.89	14.06	15.50
		1	243	14.13	14.21	14.19	15.50
		120	60	13.98	13.98	14.07	15.50
		243	0	13.99	13.98	14.12	15.50
	DFT-s-OFDM 16QAM	1	1	13.82	13.67	13.77	15.50
		1	243	14.10	14.00	14.05	15.50
		120	60	14.16	14.03	14.08	15.50
	DFT-s-OFDM 64QAM	1	1	13.95	13.82	13.88	15.50
		1	243	14.35	14.21	14.28	15.50
		120	60	14.16	14.04	14.10	15.50
	DFT-s-OFDM 256QAM	1	1	14.02	13.89	13.98	15.50
		1	243	14.28	14.10	14.20	15.50
		120	60	14.13	14.01	14.07	15.50
	CP-OFDM QPSK	1	1	13.97	13.88	13.93	15.50
	CP-OFDM 16QAM	1	1	13.92	13.82	13.89	15.50
	CP-OFDM 64QAM	1	1	14.26	14.12	14.19	15.50
	CP-OFDM 256QAM	1	1	13.79	13.67	13.73	15.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	14.06	13.93	14.01	15.50
		1	271	14.40	14.30	14.35	15.50
		135	67	14.13	14.00	14.06	15.50
		270	0	14.11	13.95	14.04	15.50
	DFT-s-OFDM QPSK	1	1	14.08	13.85	14.03	15.50
		1	271	14.10	14.16	14.15	15.50
		135	67	13.95	13.93	14.03	15.50
		270	0	13.96	13.94	14.07	15.50
	DFT-s-OFDM 16QAM	1	1	13.79	13.65	13.73	15.50
		1	271	14.07	13.97	14.03	15.50
		135	67	14.13	13.99	14.05	15.50
	DFT-s-OFDM 64QAM	1	1	13.92	13.80	13.85	15.50
		1	271	14.32	14.16	14.24	15.50
		135	67	14.14	14.00	14.07	15.50
	DFT-s-OFDM 256QAM	1	1	14.00	13.85	13.93	15.50
		1	271	14.24	14.08	14.16	15.50
		135	67	14.07	13.95	14.01	15.50
	CP-OFDM QPSK	1	1	13.92	13.80	13.86	15.50
	CP-OFDM 16QAM	1	1	13.88	13.78	13.83	15.50
	CP-OFDM 64QAM	1	1	14.23	14.07	14.15	15.50
	CP-OFDM 256QAM	1	1	13.77	13.63	13.70	15.50

NR n41 PC3							
Receiver on-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	21.75	21.99	21.69	23.50
		1	49	21.83	21.84	21.64	23.50
		25	12	21.78	21.87	21.71	23.50
		50	0	21.25	21.39	21.16	23.00
	DFT-s-OFDM QPSK	1	1	21.66	21.88	21.90	23.50
		1	49	21.66	21.81	21.70	23.50
		25	12	21.53	21.79	21.62	23.50
		50	0	20.57	21.03	20.98	22.50
	DFT-s-OFDM 16QAM	1	1	20.71	20.74	20.76	22.50
		1	49	21.05	20.67	20.74	22.50
		25	12	20.76	21.06	20.59	22.50

	DFT-s-OFDM 64QAM	1	1	19.11	19.70	19.10	21.00
		1	49	19.21	19.65	19.37	21.00
		25	12	19.24	19.78	19.13	21.00
	DFT-s-OFDM 256QAM	1	1	17.36	17.83	17.42	19.00
		1	49	17.48	17.68	17.29	19.00
		25	12	17.25	17.74	17.14	19.00
	CP-OFDM QPSK	1	1	20.20	20.80	20.15	22.00
	CP-OFDM 16QAM	1	1	19.87	20.20	19.68	21.50
	CP-OFDM 64QAM	1	1	18.10	18.81	18.19	20.00
	CP-OFDM 256QAM	1	1	14.96	14.98	14.88	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	21.72	21.97	21.65	23.50
		1	76	21.81	21.80	21.61	23.50
		36	18	21.75	21.82	21.67	23.50
		75	0	21.22	21.34	21.12	23.00
	DFT-s-OFDM QPSK	1	1	21.64	21.84	21.85	23.50
		1	76	21.64	21.79	21.66	23.50
		36	18	21.53	21.78	21.60	23.50
		75	0	20.57	20.99	20.95	22.50
	DFT-s-OFDM 16QAM	1	1	20.71	20.72	20.73	22.50
		1	76	21.02	20.65	20.70	22.50
		36	18	20.74	21.02	20.56	22.50
	DFT-s-OFDM 64QAM	1	1	19.08	19.65	19.06	21.00
		1	76	19.18	19.60	19.33	21.00
		36	18	19.22	19.74	19.08	21.00
	DFT-s-OFDM 256QAM	1	1	17.33	17.83	17.39	19.00
		1	76	17.45	17.70	17.26	19.00
		36	18	17.26	17.72	17.10	19.00
	CP-OFDM QPSK	1	1	20.18	20.76	20.16	22.00
	CP-OFDM 16QAM	1	1	19.84	20.15	19.64	21.50
	CP-OFDM 64QAM	1	1	18.07	18.76	18.15	20.00
	CP-OFDM 256QAM	1	1	14.94	14.94	14.83	17.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	21.78	22.03	21.72	23.50
		1	104	21.84	21.88	21.66	23.50
		50	25	21.80	21.88	21.74	23.50
		100	0	21.28	21.44	21.20	23.00
	DFT-s-OFDM QPSK	1	1	21.68	21.92	21.93	23.50
		1	104	21.69	21.86	21.74	23.50
		50	25	21.56	21.84	21.66	23.50
		100	0	20.60	21.07	21.03	22.50
	DFT-s-OFDM 16QAM	1	1	20.74	20.76	20.80	22.50
		1	104	21.08	20.70	20.76	22.50
		50	25	20.79	21.10	20.62	22.50
	DFT-s-OFDM 64QAM	1	1	19.14	19.72	19.13	21.00
		1	104	19.24	19.70	19.41	21.00
		50	25	19.26	19.82	19.16	21.00
	DFT-s-OFDM 256QAM	1	1	17.38	17.87	17.47	19.00
		1	104	17.52	17.70	17.33	19.00
		50	25	17.31	17.80	17.20	19.00
	CP-OFDM QPSK	1	1	20.25	20.88	20.22	22.00
	CP-OFDM 16QAM	1	1	19.91	20.24	19.74	21.50
	CP-OFDM 64QAM	1	1	18.13	18.86	18.23	20.00
	CP-OFDM 256QAM	1	1	14.98	15.02	14.91	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	21.74	21.98	21.68	23.50
		1	131	21.84	21.85	21.65	23.50
		64	32	21.77	21.86	21.70	23.50
		128	0	21.25	21.39	21.16	23.00
	DFT-s-OFDM QPSK	1	1	21.67	21.89	21.89	23.50
		1	131	21.66	21.83	21.71	23.50
		64	32	21.57	21.80	21.64	23.50
		128	0	20.61	21.02	20.97	22.50
	DFT-s-OFDM 16QAM	1	1	20.75	20.76	20.76	22.50
		1	131	21.05	20.67	20.73	22.50
		64	32	20.77	21.07	20.60	22.50
	DFT-s-OFDM 64QAM	1	1	19.10	19.69	19.09	21.00
		1	131	19.21	19.65	19.37	21.00
		64	32	19.25	19.79	19.12	21.00

	DFT-s-OFDM 256QAM	1	1	17.35	17.82	17.41	19.00
		1	131	17.48	17.70	17.29	19.00
		64	32	17.25	17.74	17.13	19.00
	CP-OFDM QPSK	1	1	20.21	20.81	20.16	22.00
	CP-OFDM 16QAM	1	1	19.86	20.19	19.67	21.50
	CP-OFDM 64QAM	1	1	18.10	18.81	18.19	20.00
	CP-OFDM 256QAM	1	1	14.97	14.99	14.87	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	21.73	21.94	21.66	23.50
		1	160	21.82	21.84	21.62	23.50
		81	40	21.74	21.81	21.66	23.50
		162	0	21.23	21.35	21.13	23.00
	DFT-s-OFDM QPSK	1	1	21.64	21.84	21.85	23.50
		1	160	21.63	21.80	21.67	23.50
		81	40	21.55	21.76	21.59	23.50
		162	0	20.59	21.00	20.95	22.50
	DFT-s-OFDM 16QAM	1	1	20.73	20.73	20.74	22.50
		1	160	21.03	20.63	20.70	22.50
		81	40	20.74	21.05	20.57	22.50
	DFT-s-OFDM 64QAM	1	1	19.07	19.64	19.05	21.00
		1	160	19.19	19.61	19.34	21.00
		81	40	19.22	19.74	19.08	21.00
	DFT-s-OFDM 256QAM	1	1	17.30	17.80	17.39	19.00
		1	160	17.46	17.67	17.27	19.00
		81	40	17.26	17.73	17.14	19.00
	CP-OFDM QPSK	1	1	20.20	20.83	20.17	22.00
	CP-OFDM 16QAM	1	1	19.84	20.16	19.66	21.50
	CP-OFDM 64QAM	1	1	18.08	18.77	18.16	20.00
	CP-OFDM 256QAM	1	1	14.94	14.94	14.83	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	21.79	22.07	21.74	23.50
		1	215	21.86	21.89	21.69	23.50
		108	54	21.83	21.93	21.78	23.50

		216	0	21.30	21.48	21.23	23.00
	DFT-s-OFDM QPSK	1	1	21.71	21.97	21.97	23.50
		1	215	21.72	21.89	21.78	23.50
		108	54	21.58	21.88	21.71	23.50
		216	0	20.62	21.09	21.05	22.50
	DFT-s-OFDM 16QAM	1	1	20.76	20.79	20.82	22.50
		1	215	21.10	20.74	20.79	22.50
		108	54	20.82	21.12	20.65	22.50
	DFT-s-OFDM 64QAM	1	1	19.17	19.77	19.17	21.00
		1	215	19.26	19.74	19.44	21.00
		108	54	19.29	19.87	19.20	21.00
	DFT-s-OFDM 256QAM	1	1	17.43	17.89	17.49	19.00
		1	215	17.54	17.73	17.35	19.00
		108	54	17.30	17.81	17.19	19.00
	CP-OFDM QPSK	1	1	20.26	20.86	20.21	22.00
	CP-OFDM 16QAM	1	1	19.93	20.27	19.75	21.50
	CP-OFDM 64QAM	1	1	18.15	18.90	18.26	20.00
	CP-OFDM 256QAM	1	1	15.01	15.07	14.95	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	21.77	22.06	21.71	23.50
		1	243	21.83	21.84	21.65	23.50
		120	60	21.81	21.89	21.75	23.50
		243	0	21.27	21.43	21.19	23.00
	DFT-s-OFDM QPSK	1	1	21.68	21.92	21.93	23.50
		1	243	21.70	21.85	21.73	23.50
		120	60	21.54	21.86	21.67	23.50
		243	0	20.58	21.06	21.03	22.50
	DFT-s-OFDM 16QAM	1	1	20.72	20.75	20.79	22.50
		1	243	21.07	20.72	20.76	22.50
		120	60	20.79	21.07	20.61	22.50
	DFT-s-OFDM 64QAM	1	1	19.15	19.73	19.14	21.00
		1	243	19.23	19.69	19.40	21.00
		120	60	19.26	19.82	19.16	21.00
	DFT-s-OFDM 256QAM	1	1	17.41	17.90	17.47	19.00
		1	243	17.51	17.73	17.32	19.00
		120	60	17.31	17.79	17.16	19.00
	CP-OFDM QPSK	1	1	20.23	20.81	20.21	22.00

	CP-OFDM 16QAM	1	1	19.91	20.23	19.72	21.50
	CP-OFDM 64QAM	1	1	18.12	18.85	18.22	20.00
	CP-OFDM 256QAM	1	1	14.98	15.02	14.91	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	21.70	21.90	21.63	23.50
		1	271	21.81	21.80	21.60	23.50
		135	67	21.72	21.80	21.63	23.50
		270	0	21.20	21.30	21.09	23.00
	DFT-s-OFDM QPSK	1	1	21.62	21.80	21.82	23.50
		1	271	21.60	21.75	21.63	23.50
		135	67	21.52	21.71	21.55	23.50
		270	0	20.56	20.96	20.90	22.50
	DFT-s-OFDM 16QAM	1	1	20.70	20.71	20.70	22.50
		1	271	21.00	20.60	20.68	22.50
		135	67	20.71	21.01	20.54	22.50
	DFT-s-OFDM 64QAM	1	1	19.04	19.62	19.02	21.00
		1	271	19.16	19.56	19.30	21.00
		135	67	19.20	19.70	19.05	21.00
	DFT-s-OFDM 256QAM	1	1	17.28	17.76	17.34	19.00
		1	271	17.42	17.65	17.23	19.00
		135	67	17.20	17.67	17.08	19.00
	CP-OFDM QPSK	1	1	20.15	20.75	20.10	22.00
	CP-OFDM 16QAM	1	1	19.80	20.12	19.60	21.50
	CP-OFDM 64QAM	1	1	18.05	18.72	18.12	20.00
	CP-OFDM 256QAM	1	1	14.92	14.90	14.80	17.00

NR n41 PC3							
Receiver off-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	20.16	20.16	20.24	21.00
		1	49	19.99	19.97	20.05	21.00
		25	12	20.11	20.04	20.21	21.00
		50	0	19.60	19.57	19.68	21.00
	DFT-s-OFDM	1	1	20.09	19.95	20.07	21.00

	QPSK	1	49	20.20	19.90	19.83	21.00
		25	12	19.96	19.99	19.94	21.00
		50	0	19.69	19.69	19.72	21.00
	DFT-s-OFDM 16QAM	1	1	19.23	19.21	19.28	21.00
		1	49	19.39	19.35	19.36	21.00
		25	12	19.64	19.67	19.69	21.00
	DFT-s-OFDM 64QAM	1	1	19.54	19.54	19.53	21.00
		1	49	19.52	19.43	19.55	21.00
		25	12	19.66	19.65	19.58	21.00
	DFT-s-OFDM 256QAM	1	1	17.93	17.92	18.03	19.00
		1	49	17.78	17.75	17.74	19.00
		25	12	17.78	17.83	17.95	19.00
	CP-OFDM QPSK	1	1	19.65	19.60	19.34	21.00
	CP-OFDM 16QAM	1	1	19.48	19.51	19.59	21.00
	CP-OFDM 64QAM	1	1	18.70	18.80	18.72	20.00
	CP-OFDM 256QAM	1	1	15.69	15.69	15.77	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	20.11	20.07	20.18	21.00
		1	76	19.97	19.93	20.01	21.00
		36	18	20.05	19.97	20.13	21.00
		75	0	19.55	19.48	19.61	21.00
	DFT-s-OFDM QPSK	1	1	20.05	19.87	19.99	21.00
		1	76	20.14	19.84	19.76	21.00
		36	18	19.95	19.91	19.87	21.00
		75	0	19.67	19.68	19.69	21.00
	DFT-s-OFDM 16QAM	1	1	19.20	19.16	19.24	21.00
		1	76	19.37	19.31	19.33	21.00
		36	18	19.61	19.62	19.65	21.00
	DFT-s-OFDM 64QAM	1	1	19.51	19.49	19.49	21.00
		1	76	19.50	19.39	19.50	21.00
		36	18	19.62	19.63	19.54	21.00
	DFT-s-OFDM 256QAM	1	1	17.89	17.89	18.01	19.00
		1	76	17.74	17.71	17.71	19.00
		36	18	17.75	17.81	17.92	19.00
	CP-OFDM QPSK	1	1	19.62	19.55	19.30	21.00
	CP-OFDM 16QAM	1	1	19.46	19.47	19.56	21.00

	CP-OFDM 64QAM	1	1	18.67	18.75	18.68	20.00
	CP-OFDM 256QAM	1	1	15.66	15.64	15.73	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	20.18	20.17	20.27	21.00
		1	104	20.02	20.02	20.09	21.00
		50	25	20.13	20.08	20.24	21.00
		100	0	19.63	19.62	19.72	21.00
	DFT-s-OFDM QPSK	1	1	20.12	20.00	20.11	21.00
		1	104	20.22	19.94	19.88	21.00
		50	25	20.00	20.01	19.98	21.00
		100	0	19.70	19.70	19.73	21.00
	DFT-s-OFDM 16QAM	1	1	19.22	19.20	19.27	21.00
		1	104	19.40	19.36	19.37	21.00
		50	25	19.64	19.67	19.69	21.00
	DFT-s-OFDM 64QAM	1	1	19.53	19.53	19.54	21.00
		1	104	19.52	19.41	19.54	21.00
		50	25	19.62	19.64	19.56	21.00
	DFT-s-OFDM 256QAM	1	1	17.89	17.93	18.04	19.00
		1	104	17.74	17.73	17.74	19.00
		50	25	17.78	17.83	17.96	19.00
	CP-OFDM QPSK	1	1	19.64	19.59	19.33	21.00
	CP-OFDM 16QAM	1	1	19.49	19.52	19.60	21.00
	CP-OFDM 64QAM	1	1	18.70	18.80	18.72	20.00
	CP-OFDM 256QAM	1	1	15.68	15.68	15.78	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	20.17	20.13	20.25	21.00
		1	131	20.00	20.01	20.06	21.00
		64	32	20.10	20.03	20.20	21.00
		128	0	19.61	19.58	19.69	21.00
	DFT-s-OFDM QPSK	1	1	20.09	19.95	20.07	21.00
		1	131	20.19	19.91	19.84	21.00
		64	32	19.98	19.97	19.93	21.00
		128	0	19.73	19.74	19.76	21.00
	DFT-s-OFDM 16QAM	1	1	19.23	19.24	19.29	21.00
		1	131	19.42	19.37	19.40	21.00

		64	32	19.67	19.72	19.73	21.00
	DFT-s-OFDM 64QAM	1	1	19.55	19.57	19.57	21.00
		1	131	19.55	19.46	19.58	21.00
		64	32	19.65	19.69	19.60	21.00
	DFT-s-OFDM 256QAM	1	1	17.92	17.97	18.09	19.00
		1	131	17.77	17.75	17.78	19.00
		64	32	17.81	17.86	17.98	19.00
	CP-OFDM QPSK	1	1	19.67	19.63	19.36	21.00
	CP-OFDM 16QAM	1	1	19.52	19.54	19.63	21.00
	CP-OFDM 64QAM	1	1	18.73	18.85	18.76	20.00
	CP-OFDM 256QAM	1	1	15.70	15.72	15.81	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	20.13	20.08	20.21	21.00
		1	160	20.00	19.98	20.05	21.00
		81	40	20.07	20.01	20.16	21.00
		162	0	19.58	19.53	19.65	21.00
	DFT-s-OFDM QPSK	1	1	20.08	19.92	20.03	21.00
		1	160	20.16	19.88	19.81	21.00
		81	40	19.99	19.93	19.91	21.00
		162	0	19.68	19.65	19.70	21.00
	DFT-s-OFDM 16QAM	1	1	19.21	19.20	19.25	21.00
		1	160	19.36	19.30	19.32	21.00
		81	40	19.62	19.63	19.66	21.00
	DFT-s-OFDM 64QAM	1	1	19.51	19.49	19.49	21.00
		1	160	19.49	19.40	19.51	21.00
		81	40	19.64	19.61	19.53	21.00
	DFT-s-OFDM 256QAM	1	1	17.91	17.90	18.01	19.00
		1	160	17.76	17.72	17.72	19.00
		81	40	17.76	17.79	17.92	19.00
	CP-OFDM QPSK	1	1	19.62	19.58	19.31	21.00
	CP-OFDM 16QAM	1	1	19.45	19.46	19.55	21.00
	CP-OFDM 64QAM	1	1	18.68	18.76	18.69	20.00
	CP-OFDM 256QAM	1	1	15.66	15.64	15.73	17.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	20.12	20.04	20.19	21.00
		1	215	19.98	19.97	20.02	21.00
		108	54	20.04	19.96	20.12	21.00
		216	0	19.56	19.49	19.62	21.00
	DFT-s-OFDM QPSK	1	1	20.05	19.87	19.99	21.00
		1	215	20.13	19.85	19.77	21.00
		108	54	19.97	19.89	19.86	21.00
		216	0	19.65	19.61	19.67	21.00
	DFT-s-OFDM 16QAM	1	1	19.20	19.16	19.23	21.00
		1	215	19.34	19.29	19.29	21.00
		108	54	19.59	19.58	19.62	21.00
	DFT-s-OFDM 64QAM	1	1	19.49	19.45	19.46	21.00
		1	215	19.46	19.35	19.47	21.00
		108	54	19.61	19.56	19.49	21.00
	DFT-s-OFDM 256QAM	1	1	17.88	17.86	17.96	19.00
		1	215	17.73	17.70	17.68	19.00
		108	54	17.73	17.76	17.90	19.00
	CP-OFDM QPSK	1	1	19.59	19.54	19.28	21.00
	CP-OFDM 16QAM	1	1	19.42	19.44	19.52	21.00
	CP-OFDM 64QAM	1	1	18.65	18.71	18.65	20.00
	CP-OFDM 256QAM	1	1	15.64	15.60	15.70	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	20.19	20.18	20.28	21.00
		1	243	20.01	20.01	20.08	21.00
		120	60	20.14	20.09	20.25	21.00
		243	0	19.63	19.62	19.72	21.00
	DFT-s-OFDM QPSK	1	1	20.11	19.99	20.12	21.00
		1	243	20.22	19.92	19.87	21.00
		120	60	19.96	20.00	19.96	21.00
		243	0	19.62	19.59	19.63	21.00
	DFT-s-OFDM 16QAM	1	1	19.18	19.12	19.20	21.00
		1	243	19.31	19.24	19.25	21.00
		120	60	19.56	19.53	19.58	21.00
	DFT-s-OFDM 64QAM	1	1	19.47	19.41	19.41	21.00
		1	243	19.44	19.33	19.43	21.00
		120	60	19.61	19.55	19.47	21.00

	DFT-s-OFDM 256QAM	1	1	17.88	17.82	17.93	19.00
		1	243	17.73	17.68	17.65	19.00
		120	60	17.70	17.74	17.86	19.00
	CP-OFDM QPSK	1	1	19.57	19.50	19.25	21.00
	CP-OFDM 16QAM	1	1	19.39	19.39	19.48	21.00
	CP-OFDM 64QAM	1	1	18.60	18.66	18.61	20.00
	CP-OFDM 256QAM	1	1	15.62	15.56	15.65	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	20.09	20.00	20.16	21.00
		1	271	19.97	19.93	20.00	21.00
		135	67	20.02	19.95	20.09	21.00
		270	0	19.53	19.44	19.58	21.00
	DFT-s-OFDM QPSK	1	1	20.03	19.83	19.96	21.00
		1	271	20.10	19.80	19.73	21.00
		135	67	19.94	19.84	19.82	21.00
		270	0	19.60	19.52	19.61	21.00
	DFT-s-OFDM 16QAM	1	1	19.18	19.12	19.19	21.00
		1	271	19.28	19.22	19.21	21.00
		135	67	19.54	19.49	19.55	21.00
	DFT-s-OFDM 64QAM	1	1	19.45	19.37	19.38	21.00
		1	271	19.40	19.29	19.40	21.00
		135	67	19.60	19.48	19.42	21.00
	DFT-s-OFDM 256QAM	1	1	17.87	17.79	17.88	19.00
		1	271	17.72	17.67	17.62	19.00
		135	67	17.68	17.69	17.84	19.00
	CP-OFDM QPSK	1	1	19.54	19.49	19.23	21.00
	CP-OFDM 16QAM	1	1	19.35	19.36	19.44	21.00
	CP-OFDM 64QAM	1	1	18.60	18.62	18.58	20.00
	CP-OFDM 256QAM	1	1	15.60	15.52	15.62	17.00

NR n41 PC3							
Hotspot on-Div Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	19.53	19.43	19.45	20.50
		1	49	19.32	19.28	19.30	20.50
		25	12	19.46	19.34	19.41	20.50
		50	0	19.58	19.48	19.51	20.50
	DFT-s-OFDM QPSK	1	1	19.78	19.31	19.79	20.50
		1	49	19.73	19.28	19.47	20.50
		25	12	19.54	19.37	19.51	20.50
		50	0	18.99	18.96	19.04	20.50
	DFT-s-OFDM 16QAM	1	1	19.05	19.03	19.06	20.50
		1	49	18.68	18.66	18.74	20.50
		25	12	19.08	19.15	19.14	20.50
	DFT-s-OFDM 64QAM	1	1	19.16	18.98	19.09	20.50
		1	49	18.89	18.91	18.99	20.50
		25	12	19.14	19.03	19.09	20.50
	DFT-s-OFDM 256QAM	1	1	17.84	17.77	17.83	19.00
		1	49	17.81	17.76	17.91	19.00
		25	12	17.64	17.73	17.82	19.00
	CP-OFDM QPSK	1	1	19.07	18.98	19.03	20.50
	CP-OFDM 16QAM	1	1	18.94	18.92	19.07	20.50
	CP-OFDM 64QAM	1	1	18.80	18.70	18.78	20.00
	CP-OFDM 256QAM	1	1	15.49	15.50	15.55	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	19.50	19.41	19.41	20.50
		1	76	19.30	19.24	19.27	20.50
		36	18	19.43	19.29	19.37	20.50
		75	0	19.55	19.43	19.47	20.50
	DFT-s-OFDM QPSK	1	1	19.76	19.27	19.74	20.50
		1	76	19.71	19.26	19.43	20.50
		36	18	19.54	19.36	19.49	20.50
		75	0	18.99	18.92	19.01	20.50
	DFT-s-OFDM 16QAM	1	1	19.08	19.07	19.09	20.50
		1	76	18.69	18.70	18.76	20.50
		36	18	19.10	19.16	19.17	20.50

	DFT-s-OFDM 64QAM	1	1	19.19	19.03	19.13	20.50
		1	76	18.91	18.95	19.02	20.50
		36	18	19.17	19.08	19.13	20.50
	DFT-s-OFDM 256QAM	1	1	17.87	17.82	17.87	19.00
		1	76	17.84	17.80	17.96	19.00
		36	18	17.67	17.75	17.86	19.00
	CP-OFDM QPSK	1	1	19.10	19.01	19.05	20.50
	CP-OFDM 16QAM	1	1	18.97	18.96	19.10	20.50
	CP-OFDM 64QAM	1	1	18.83	18.72	18.81	20.00
	CP-OFDM 256QAM	1	1	15.52	15.55	15.59	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	19.55	19.50	19.47	20.50
		1	104	19.32	19.28	19.31	20.50
		50	25	19.49	19.36	19.45	20.50
		100	0	19.60	19.52	19.54	20.50
	DFT-s-OFDM QPSK	1	1	19.80	19.35	19.82	20.50
		1	104	19.77	19.32	19.50	20.50
		50	25	19.55	19.44	19.56	20.50
		100	0	19.00	18.99	19.09	20.50
	DFT-s-OFDM 16QAM	1	1	19.09	19.11	19.11	20.50
		1	104	18.71	18.71	18.79	20.50
		50	25	19.13	19.21	19.21	20.50
	DFT-s-OFDM 64QAM	1	1	19.21	19.07	19.16	20.50
		1	104	18.94	19.00	19.06	20.50
		50	25	19.20	19.11	19.17	20.50
	DFT-s-OFDM 256QAM	1	1	17.89	17.86	17.92	19.00
		1	104	17.86	17.82	17.98	19.00
		50	25	17.69	17.78	17.88	19.00
	CP-OFDM QPSK	1	1	19.12	19.05	19.08	20.50
	CP-OFDM 16QAM	1	1	19.00	18.98	19.13	20.50
	CP-OFDM 64QAM	1	1	18.86	18.77	18.85	20.00
	CP-OFDM 256QAM	1	1	15.54	15.59	15.62	17.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	19.52	19.42	19.44	20.50
		1	131	19.33	19.29	19.31	20.50
		64	32	19.45	19.33	19.40	20.50
		128	0	19.58	19.48	19.51	20.50
	DFT-s-OFDM QPSK	1	1	19.79	19.32	19.78	20.50
		1	131	19.73	19.30	19.48	20.50
		64	32	19.58	19.38	19.53	20.50
		128	0	19.03	18.95	19.03	20.50
	DFT-s-OFDM 16QAM	1	1	19.07	19.10	19.08	20.50
		1	131	18.68	18.66	18.75	20.50
		64	32	19.11	19.17	19.18	20.50
	DFT-s-OFDM 64QAM	1	1	19.18	19.02	19.12	20.50
		1	131	18.91	18.95	19.02	20.50
		64	32	19.18	19.07	19.12	20.50
	DFT-s-OFDM 256QAM	1	1	17.85	17.84	17.88	19.00
		1	131	17.82	17.79	17.96	19.00
		64	32	17.65	17.74	17.85	19.00
	CP-OFDM QPSK	1	1	19.09	19.03	19.05	20.50
	CP-OFDM 16QAM	1	1	18.97	18.93	19.09	20.50
	CP-OFDM 64QAM	1	1	18.84	18.73	18.82	20.00
	CP-OFDM 256QAM	1	1	15.51	15.54	15.58	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	19.57	19.51	19.50	20.50
		1	160	19.35	19.33	19.35	20.50
		81	40	19.51	19.40	19.48	20.50
		162	0	19.63	19.57	19.58	20.50
	DFT-s-OFDM QPSK	1	1	19.83	19.40	19.86	20.50
		1	160	19.79	19.36	19.55	20.50
		81	40	19.59	19.46	19.60	20.50
		162	0	19.04	19.02	19.11	20.50
	DFT-s-OFDM 16QAM	1	1	19.02	19.01	19.02	20.50
		1	160	18.66	18.62	18.71	20.50
		81	40	19.05	19.10	19.10	20.50
	DFT-s-OFDM 64QAM	1	1	19.13	18.93	19.05	20.50
		1	160	18.87	18.87	18.94	20.50
		81	40	19.12	19.01	19.05	20.50

	DFT-s-OFDM 256QAM	1	1	17.84	17.76	17.81	19.00
		1	160	17.81	17.72	17.88	19.00
		81	40	17.64	17.71	17.79	19.00
	CP-OFDM QPSK	1	1	19.04	18.96	18.99	20.50
	CP-OFDM 16QAM	1	1	18.92	18.88	19.04	20.50
	CP-OFDM 64QAM	1	1	18.77	18.65	18.74	20.00
	CP-OFDM 256QAM	1	1	15.46	15.45	15.51	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	19.56	19.47	19.48	20.50
		1	215	19.33	19.32	19.32	20.50
		108	54	19.48	19.35	19.44	20.50
		216	0	19.61	19.53	19.55	20.50
	DFT-s-OFDM QPSK	1	1	19.80	19.35	19.82	20.50
		1	215	19.76	19.33	19.51	20.50
		108	54	19.57	19.42	19.55	20.50
		216	0	19.02	19.00	19.09	20.50
	DFT-s-OFDM 16QAM	1	1	19.10	19.12	19.12	20.50
		1	215	18.70	18.70	18.78	20.50
		108	54	19.14	19.22	19.22	20.50
	DFT-s-OFDM 64QAM	1	1	19.21	19.07	19.16	20.50
		1	215	18.93	18.99	19.07	20.50
		108	54	19.20	19.09	19.16	20.50
	DFT-s-OFDM 256QAM	1	1	17.85	17.85	17.90	19.00
		1	215	17.82	17.83	17.99	19.00
		108	54	17.65	17.76	17.88	19.00
	CP-OFDM QPSK	1	1	19.12	19.05	19.09	20.50
	CP-OFDM 16QAM	1	1	18.99	18.97	19.12	20.50
	CP-OFDM 64QAM	1	1	18.87	18.78	18.86	20.00
	CP-OFDM 256QAM	1	1	15.54	15.59	15.62	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	19.51	19.38	19.42	20.50
		1	243	19.31	19.28	19.28	20.50
		120	60	19.42	19.28	19.36	20.50

		243	0	19.56	19.44	19.48	20.50
	DFT-s-OFDM QPSK	1	1	19.76	19.27	19.74	20.50
		1	243	19.70	19.27	19.44	20.50
		120	60	19.56	19.34	19.48	20.50
		243	0	19.01	18.93	19.01	20.50
	DFT-s-OFDM 16QAM	1	1	19.04	19.02	19.05	20.50
		1	243	18.69	18.67	18.75	20.50
		120	60	19.07	19.14	19.13	20.50
	DFT-s-OFDM 64QAM	1	1	19.16	18.98	19.09	20.50
		1	243	18.90	18.92	18.98	20.50
		120	60	19.14	19.05	19.10	20.50
	DFT-s-OFDM 256QAM	1	1	17.88	17.78	17.85	19.00
		1	243	17.85	17.75	17.90	19.00
		120	60	17.68	17.75	17.82	19.00
	CP-OFDM QPSK	1	1	19.07	18.98	19.02	20.50
	CP-OFDM 16QAM	1	1	18.95	18.93	19.08	20.50
	CP-OFDM 64QAM	1	1	18.79	18.69	18.77	20.00
	CP-OFDM 256QAM	1	1	15.49	15.50	15.55	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	19.48	19.34	19.39	20.50
		1	271	19.30	19.24	19.26	20.50
		135	67	19.40	19.27	19.33	20.50
		270	0	19.53	19.39	19.44	20.50
	DFT-s-OFDM QPSK	1	1	19.74	19.23	19.71	20.50
		1	271	19.67	19.22	19.40	20.50
		135	67	19.53	19.29	19.44	20.50
		270	0	18.98	18.89	18.96	20.50
	DFT-s-OFDM 16QAM	1	1	19.00	18.94	19.00	20.50
		1	271	18.66	18.62	18.70	20.50
		135	67	19.02	19.08	19.06	20.50
	DFT-s-OFDM 64QAM	1	1	19.11	18.89	19.02	20.50
		1	271	18.85	18.83	18.91	20.50
		135	67	19.08	18.97	19.02	20.50
	DFT-s-OFDM 256QAM	1	1	17.83	17.69	17.76	19.00
		1	271	17.80	17.69	17.83	19.00
		135	67	17.63	17.70	17.76	19.00
	CP-OFDM QPSK	1	1	19.02	18.91	18.97	20.50

	CP-OFDM 16QAM	1	1	18.89	18.87	19.02	20.50
	CP-OFDM 64QAM	1	1	18.73	18.62	18.70	20.00
	CP-OFDM 256QAM	1	1	15.44	15.41	15.48	17.00

NR n41 PC3							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	19.09	19.17	19.13	19.70
		1	49	19.11	19.21	18.99	19.70
		25	12	19.11	19.20	19.25	19.70
		50	0	19.10	19.26	19.19	19.70
	DFT-s-OFDM QPSK	1	1	19.02	19.27	19.33	19.70
		1	49	19.13	19.29	18.46	19.70
		25	12	18.99	19.15	19.27	19.70
		50	0	18.69	18.94	18.89	19.70
	DFT-s-OFDM 16QAM	1	1	18.98	19.07	19.10	19.70
		1	49	19.10	19.22	19.04	19.70
		25	12	18.71	18.83	18.94	19.70
	DFT-s-OFDM 64QAM	1	1	17.22	17.40	17.27	19.00
		1	49	17.20	17.40	17.22	19.00
		25	12	17.20	17.57	17.45	19.00
	DFT-s-OFDM 256QAM	1	1	15.38	15.38	15.46	17.00
		1	49	15.52	15.48	15.32	17.00
		25	12	15.30	15.36	15.51	17.00
	CP-OFDM QPSK	1	1	18.31	18.31	18.41	19.70
	CP-OFDM 16QAM	1	1	17.43	17.47	17.53	19.50
	CP-OFDM 64QAM	1	1	16.41	16.48	16.55	18.00
	CP-OFDM 256QAM	1	1	12.99	13.07	13.07	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	19.05	19.09	19.08	19.70
		1	76	19.08	19.16	18.94	19.70
		36	18	19.06	19.14	19.18	19.70
		75	0	19.05	19.17	19.12	19.70
	DFT-s-OFDM	1	1	18.97	19.18	19.26	19.70

	QPSK	1	76	19.07	19.21	18.38	19.70
		36	18	18.94	19.06	19.18	19.70
		75	0	18.64	18.88	18.82	19.70
	DFT-s-OFDM 16QAM	1	1	18.93	19.02	19.04	19.70
		1	76	19.05	19.15	18.99	19.70
		36	18	18.65	18.77	18.88	19.70
	DFT-s-OFDM 64QAM	1	1	17.16	17.33	17.20	19.00
		1	76	17.15	17.31	17.15	19.00
		36	18	17.15	17.48	17.38	19.00
	DFT-s-OFDM 256QAM	1	1	15.31	15.32	15.39	17.00
		1	76	15.46	15.43	15.26	17.00
		36	18	15.25	15.29	15.46	17.00
	CP-OFDM QPSK	1	1	18.25	18.25	18.35	19.70
	CP-OFDM 16QAM	1	1	17.37	17.40	17.46	19.50
	CP-OFDM 64QAM	1	1	16.36	16.39	16.48	18.00
	CP-OFDM 256QAM	1	1	12.94	12.98	13.00	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	19.08	19.13	19.11	19.70
		1	104	19.09	19.20	18.96	19.70
		50	25	19.08	19.15	19.21	19.70
		100	0	19.08	19.22	19.16	19.70
	DFT-s-OFDM QPSK	1	1	18.99	19.22	19.29	19.70
		1	104	19.10	19.26	18.42	19.70
		50	25	18.97	19.11	19.22	19.70
		100	0	18.67	18.92	18.87	19.70
	DFT-s-OFDM 16QAM	1	1	18.96	19.04	19.08	19.70
		1	104	19.08	19.18	19.01	19.70
		50	25	18.68	18.81	18.91	19.70
	DFT-s-OFDM 64QAM	1	1	17.19	17.35	17.23	19.00
		1	104	17.18	17.36	17.19	19.00
		50	25	17.17	17.52	17.41	19.00
	DFT-s-OFDM 256QAM	1	1	15.33	15.36	15.44	17.00
		1	104	15.50	15.45	15.30	17.00
		50	25	15.31	15.35	15.52	17.00
	CP-OFDM QPSK	1	1	18.30	18.33	18.42	19.70
	CP-OFDM 16QAM	1	1	17.41	17.44	17.52	19.50

	CP-OFDM 64QAM	1	1	16.39	16.44	16.52	18.00
	CP-OFDM 256QAM	1	1	12.96	13.02	13.03	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	19.07	19.16	19.10	19.70
		1	131	19.08	19.16	18.95	19.70
		64	32	19.09	19.16	19.22	19.70
		128	0	19.07	19.21	19.15	19.70
	DFT-s-OFDM QPSK	1	1	18.99	19.22	19.29	19.70
		1	131	19.11	19.25	18.41	19.70
		64	32	18.95	19.13	19.23	19.70
		128	0	18.65	18.91	18.87	19.70
	DFT-s-OFDM 16QAM	1	1	18.94	19.03	19.07	19.70
		1	131	19.07	19.20	19.01	19.70
		64	32	18.68	18.78	18.90	19.70
	DFT-s-OFDM 64QAM	1	1	17.20	17.36	17.24	19.00
		1	131	17.17	17.35	17.18	19.00
		64	32	17.17	17.52	17.41	19.00
	DFT-s-OFDM 256QAM	1	1	15.36	15.39	15.44	17.00
		1	131	15.49	15.48	15.29	17.00
		64	32	15.31	15.34	15.48	17.00
	CP-OFDM QPSK	1	1	18.28	18.26	18.41	19.70
	CP-OFDM 16QAM	1	1	17.41	17.43	17.50	19.50
	CP-OFDM 64QAM	1	1	16.38	16.43	16.51	18.00
	CP-OFDM 256QAM	1	1	12.96	13.02	13.03	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	19.02	19.07	19.04	19.70
		1	160	19.06	19.12	18.91	19.70
		81	40	19.03	19.09	19.14	19.70
		162	0	19.02	19.12	19.08	19.70
	DFT-s-OFDM QPSK	1	1	18.95	19.14	19.21	19.70
		1	160	19.05	19.19	18.34	19.70
		81	40	18.94	19.05	19.16	19.70
		162	0	18.64	18.84	18.79	19.70
	DFT-s-OFDM 16QAM	1	1	18.93	19.00	19.01	19.70
		1	160	19.02	19.13	18.95	19.70

		81	40	18.63	18.73	18.85	19.70
	DFT-s-OFDM 64QAM	1	1	17.13	17.28	17.16	19.00
		1	160	17.12	17.26	17.11	19.00
		81	40	17.13	17.44	17.33	19.00
	DFT-s-OFDM 256QAM	1	1	15.28	15.32	15.36	17.00
		1	160	15.43	15.45	15.23	17.00
		81	40	15.26	15.27	15.42	17.00
	CP-OFDM QPSK	1	1	18.23	18.21	18.36	19.70
	CP-OFDM 16QAM	1	1	17.34	17.35	17.42	19.50
	CP-OFDM 64QAM	1	1	16.33	16.34	16.44	18.00
	CP-OFDM 256QAM	1	1	12.92	12.94	12.95	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	19.10	19.18	19.14	19.70
		1	215	19.10	19.20	18.98	19.70
		108	54	19.12	19.21	19.26	19.70
		216	0	19.10	19.26	19.19	19.70
	DFT-s-OFDM QPSK	1	1	19.01	19.26	19.34	19.70
		1	215	19.13	19.27	18.45	19.70
		108	54	18.95	19.14	19.25	19.70
		216	0	18.65	18.95	18.90	19.70
	DFT-s-OFDM 16QAM	1	1	18.94	19.05	19.10	19.70
		1	215	19.10	19.22	19.05	19.70
		108	54	18.70	18.82	18.93	19.70
	DFT-s-OFDM 64QAM	1	1	17.23	17.41	17.28	19.00
		1	215	17.20	17.40	17.22	19.00
		108	54	17.19	17.56	17.46	19.00
	DFT-s-OFDM 256QAM	1	1	15.39	15.39	15.47	17.00
		1	215	15.52	15.46	15.32	17.00
		108	54	15.30	15.36	15.52	17.00
	CP-OFDM QPSK	1	1	18.30	18.30	18.40	19.70
	CP-OFDM 16QAM	1	1	17.44	17.48	17.54	19.50
	CP-OFDM 64QAM	1	1	16.41	16.48	16.55	18.00
	CP-OFDM 256QAM	1	1	12.98	13.06	13.08	15.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	19.13	19.22	19.17	19.70
		1	243	19.11	19.24	19.00	19.70
		120	60	19.14	19.22	19.29	19.70
		243	0	19.13	19.31	19.23	19.70
	DFT-s-OFDM QPSK	1	1	19.03	19.30	19.37	19.70
		1	243	19.16	19.32	18.49	19.70
		120	60	18.98	19.19	19.29	19.70
		243	0	18.68	18.99	18.95	19.70
	DFT-s-OFDM 16QAM	1	1	18.97	19.07	19.14	19.70
		1	243	19.13	19.25	19.07	19.70
		120	60	18.73	18.86	18.96	19.70
	DFT-s-OFDM 64QAM	1	1	17.26	17.43	17.31	19.00
		1	243	17.23	17.45	17.26	19.00
		120	60	17.21	17.60	17.49	19.00
	DFT-s-OFDM 256QAM	1	1	15.41	15.43	15.52	17.00
		1	243	15.56	15.48	15.36	17.00
		120	60	15.36	15.42	15.58	17.00
	CP-OFDM QPSK	1	1	18.35	18.38	18.47	19.70
	CP-OFDM 16QAM	1	1	17.48	17.52	17.60	19.50
	CP-OFDM 64QAM	1	1	16.44	16.53	16.59	18.00
	CP-OFDM 256QAM	1	1	13.00	13.10	13.11	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	19.00	19.00	19.02	19.70
		1	271	19.06	19.12	18.90	19.70
		135	67	19.00	19.07	19.10	19.70
		270	0	19.00	19.08	19.05	19.70
	DFT-s-OFDM QPSK	1	1	18.93	19.10	19.18	19.70
		1	271	19.01	19.15	18.31	19.70
		135	67	18.93	18.98	19.11	19.70
		270	0	18.63	18.81	18.74	19.70
	DFT-s-OFDM 16QAM	1	1	18.92	18.99	18.98	19.70
		1	271	19.00	19.08	18.93	19.70
		135	67	18.60	18.72	18.83	19.70
	DFT-s-OFDM 64QAM	1	1	17.09	17.25	17.12	19.00
		1	271	17.10	17.22	17.08	19.00
		135	67	17.11	17.40	17.30	19.00

	DFT-s-OFDM 256QAM	1	1	15.23	15.25	15.31	17.00
		1	271	15.40	15.40	15.20	17.00
		135	67	15.20	15.22	15.40	17.00
	CP-OFDM QPSK	1	1	18.20	18.20	18.30	19.70
	CP-OFDM 16QAM	1	1	17.30	17.32	17.38	19.50
	CP-OFDM 64QAM	1	1	16.31	16.30	16.41	18.00
	CP-OFDM 256QAM	1	1	12.90	12.90	12.92	15.00

NR n41 PC3							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	18.39	18.38	18.47	19.60
		1	49	18.48	18.48	18.56	19.60
		25	12	18.45	18.40	18.57	19.60
		50	0	18.50	18.49	18.61	19.60
	DFT-s-OFDM QPSK	1	1	18.48	18.46	19.12	19.60
		1	49	18.72	18.53	19.01	19.60
		25	12	18.54	18.41	18.90	19.60
		50	0	18.07	18.04	18.56	19.60
	DFT-s-OFDM 16QAM	1	1	18.77	18.77	18.36	19.60
		1	49	18.48	18.80	18.15	19.60
		25	12	18.61	18.70	18.33	19.60
	DFT-s-OFDM 64QAM	1	1	17.15	17.17	17.17	19.00
		1	49	17.37	17.20	17.33	19.00
		25	12	17.26	17.28	17.27	19.00
	DFT-s-OFDM 256QAM	1	1	15.11	15.28	15.02	17.00
		1	49	15.14	15.47	15.14	17.00
		25	12	15.33	15.33	15.16	17.00
	CP-OFDM QPSK	1	1	18.15	18.29	18.01	19.60
	CP-OFDM 16QAM	1	1	17.88	17.77	17.75	19.50
	CP-OFDM 64QAM	1	1	16.09	16.23	15.98	18.00
	CP-OFDM 256QAM	1	1	12.99	13.13	13.13	15.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	18.36	18.36	18.43	19.60
		1	76	18.46	18.44	18.53	19.60
		36	18	18.42	18.35	18.53	19.60
		75	0	18.47	18.44	18.57	19.60
	DFT-s-OFDM QPSK	1	1	18.46	18.42	19.07	19.60
		1	76	18.70	18.51	18.97	19.60
		36	18	18.54	18.40	18.88	19.60
		75	0	18.07	18.00	18.53	19.60
	DFT-s-OFDM 16QAM	1	1	18.80	18.81	18.39	19.60
		1	76	18.49	18.84	18.17	19.60
		36	18	18.63	18.71	18.36	19.60
	DFT-s-OFDM 64QAM	1	1	17.18	17.22	17.21	19.00
		1	76	17.39	17.24	17.36	19.00
		36	18	17.29	17.33	17.31	19.00
	DFT-s-OFDM 256QAM	1	1	15.14	15.33	15.06	17.00
		1	76	15.17	15.51	15.19	17.00
		36	18	15.36	15.35	15.20	17.00
	CP-OFDM QPSK	1	1	18.18	18.32	18.03	19.60
	CP-OFDM 16QAM	1	1	17.91	17.81	17.78	19.50
	CP-OFDM 64QAM	1	1	16.12	16.25	16.01	18.00
	CP-OFDM 256QAM	1	1	13.02	13.18	13.17	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	18.38	18.37	18.46	19.60
		1	104	18.49	18.49	18.57	19.60
		50	25	18.44	18.39	18.56	19.60
		100	0	18.50	18.49	18.61	19.60
	DFT-s-OFDM QPSK	1	1	18.49	18.47	19.11	19.60
		1	104	18.72	18.55	19.02	19.60
		50	25	18.58	18.42	18.92	19.60
		100	0	18.11	18.03	18.55	19.60
	DFT-s-OFDM 16QAM	1	1	18.79	18.84	18.38	19.60
		1	104	18.48	18.80	18.16	19.60
		50	25	18.64	18.72	18.37	19.60
	DFT-s-OFDM 64QAM	1	1	17.17	17.21	17.20	19.00
		1	104	17.39	17.24	17.36	19.00
		50	25	17.30	17.32	17.30	19.00

	DFT-s-OFDM 256QAM	1	1	15.12	15.35	15.07	17.00
		1	104	15.15	15.50	15.19	17.00
		50	25	15.34	15.34	15.19	17.00
	CP-OFDM QPSK	1	1	18.17	18.34	18.03	19.60
	CP-OFDM 16QAM	1	1	17.91	17.78	17.77	19.50
	CP-OFDM 64QAM	1	1	16.13	16.26	16.02	18.00
	CP-OFDM 256QAM	1	1	13.01	13.17	13.16	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	18.37	18.33	18.44	19.60
		1	131	18.47	18.48	18.54	19.60
		64	32	18.41	18.34	18.52	19.60
		128	0	18.48	18.45	18.58	19.60
	DFT-s-OFDM QPSK	1	1	18.46	18.42	19.07	19.60
		1	131	18.69	18.52	18.98	19.60
		64	32	18.56	18.38	18.87	19.60
		128	0	18.09	18.01	18.53	19.60
	DFT-s-OFDM 16QAM	1	1	18.81	18.85	18.41	19.60
		1	131	18.51	18.85	18.20	19.60
		64	32	18.66	18.76	18.40	19.60
	DFT-s-OFDM 64QAM	1	1	17.20	17.26	17.24	19.00
		1	131	17.42	17.29	17.40	19.00
		64	32	17.32	17.36	17.35	19.00
	DFT-s-OFDM 256QAM	1	1	15.16	15.37	15.11	17.00
		1	131	15.19	15.53	15.21	17.00
		64	32	15.38	15.38	15.22	17.00
	CP-OFDM QPSK	1	1	18.20	18.36	18.06	19.60
	CP-OFDM 16QAM	1	1	17.94	17.83	17.81	19.50
	CP-OFDM 64QAM	1	1	16.15	16.30	16.05	18.00
	CP-OFDM 256QAM	1	1	13.04	13.22	13.20	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	18.34	18.29	18.41	19.60
		1	160	18.46	18.44	18.52	19.60
		81	40	18.39	18.33	18.49	19.60

		162	0	18.45	18.40	18.54	19.60
	DFT-s-OFDM QPSK	1	1	18.44	18.38	19.04	19.60
		1	160	18.66	18.47	18.94	19.60
		81	40	18.53	18.33	18.83	19.60
		162	0	18.06	17.97	18.48	19.60
	DFT-s-OFDM 16QAM	1	1	18.74	18.75	18.32	19.60
		1	160	18.46	18.76	18.12	19.60
		81	40	18.58	18.65	18.29	19.60
	DFT-s-OFDM 64QAM	1	1	17.12	17.12	17.13	19.00
		1	160	17.35	17.16	17.28	19.00
		81	40	17.24	17.26	17.23	19.00
	DFT-s-OFDM 256QAM	1	1	15.11	15.27	15.00	17.00
		1	160	15.14	15.43	15.11	17.00
		81	40	15.33	15.31	15.13	17.00
	CP-OFDM QPSK	1	1	18.12	18.27	17.97	19.60
	CP-OFDM 16QAM	1	1	17.86	17.73	17.72	19.50
	CP-OFDM 64QAM	1	1	16.06	16.18	15.94	18.00
	CP-OFDM 256QAM	1	1	12.96	13.08	13.09	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	18.31	18.27	18.37	19.60
		1	215	18.44	18.40	18.49	19.60
		108	54	18.36	18.28	18.45	19.60
		216	0	18.42	18.35	18.50	19.60
	DFT-s-OFDM QPSK	1	1	18.42	18.34	18.99	19.60
		1	215	18.64	18.45	18.90	19.60
		108	54	18.53	18.32	18.81	19.60
		216	0	18.06	17.93	18.45	19.60
	DFT-s-OFDM 16QAM	1	1	18.76	18.76	18.35	19.60
		1	215	18.49	18.81	18.16	19.60
		108	54	18.60	18.69	18.32	19.60
	DFT-s-OFDM 64QAM	1	1	17.15	17.17	17.17	19.00
		1	215	17.38	17.21	17.32	19.00
		108	54	17.26	17.30	17.28	19.00
	DFT-s-OFDM 256QAM	1	1	15.15	15.29	15.04	17.00
		1	215	15.18	15.46	15.13	17.00
		108	54	15.37	15.35	15.16	17.00
	CP-OFDM QPSK	1	1	18.15	18.29	18.00	19.60

	CP-OFDM 16QAM	1	1	17.89	17.78	17.76	19.50
	CP-OFDM 64QAM	1	1	16.08	16.22	15.97	18.00
	CP-OFDM 256QAM	1	1	12.99	13.13	13.13	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	18.33	18.28	18.40	19.60
		1	243	18.47	18.45	18.53	19.60
		120	60	18.38	18.32	18.48	19.60
		243	0	18.45	18.40	18.54	19.60
	DFT-s-OFDM QPSK	1	1	18.45	18.39	19.03	19.60
		1	243	18.66	18.49	18.95	19.60
		120	60	18.57	18.34	18.85	19.60
		243	0	18.10	17.96	18.47	19.60
	DFT-s-OFDM 16QAM	1	1	18.75	18.72	18.33	19.60
		1	243	18.47	18.80	18.13	19.60
		120	60	18.57	18.64	18.28	19.60
	DFT-s-OFDM 64QAM	1	1	17.13	17.13	17.14	19.00
		1	243	17.35	17.16	17.28	19.00
		120	60	17.23	17.27	17.24	19.00
	DFT-s-OFDM 256QAM	1	1	15.13	15.25	14.99	17.00
		1	243	15.16	15.44	15.11	17.00
		120	60	15.35	15.32	15.14	17.00
	CP-OFDM QPSK	1	1	18.13	18.25	17.97	19.60
	CP-OFDM 16QAM	1	1	17.86	17.76	17.73	19.50
	CP-OFDM 64QAM	1	1	16.05	16.17	15.93	18.00
	CP-OFDM 256QAM	1	1	12.97	13.09	13.10	15.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	18.29	18.20	18.35	19.60
		1	271	18.44	18.40	18.48	19.60
		135	67	18.33	18.26	18.41	19.60
		270	0	18.40	18.31	18.47	19.60
	DFT-s-OFDM QPSK	1	1	18.40	18.30	18.96	19.60
		1	271	18.60	18.41	18.87	19.60
		135	67	18.52	18.25	18.76	19.60
		270	0	18.05	17.90	18.40	19.60

	DFT-s-OFDM 16QAM	1	1	18.72	18.68	18.30	19.60
		1	271	18.46	18.76	18.11	19.60
		135	67	18.55	18.63	18.25	19.60
	DFT-s-OFDM 64QAM	1	1	17.10	17.08	17.10	19.00
		1	271	17.33	17.12	17.25	19.00
		135	67	17.20	17.22	17.20	19.00
	DFT-s-OFDM 256QAM	1	1	15.10	15.20	14.95	17.00
		1	271	15.13	15.40	15.06	17.00
		135	67	15.32	15.30	15.10	17.00
	CP-OFDM QPSK	1	1	18.10	18.22	17.95	19.60
	CP-OFDM 16QAM	1	1	17.83	17.72	17.70	19.50
	CP-OFDM 64QAM	1	1	16.02	16.15	15.90	18.00
	CP-OFDM 256QAM	1	1	12.94	13.04	13.06	15.00

NR n41 PC3							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	13.33	13.30	13.40	14.80
		1	49	13.42	13.44	13.48	14.80
		25	12	13.32	13.31	13.42	14.80
		50	0	13.32	13.32	13.41	14.80
	DFT-s-OFDM QPSK	1	1	13.38	13.28	13.32	14.80
		1	49	13.43	13.47	13.47	14.80
		25	12	13.27	13.32	13.37	14.80
		50	0	13.23	13.28	13.37	14.80
	DFT-s-OFDM 16QAM	1	1	13.38	13.26	13.37	14.80
		1	49	13.61	13.53	13.58	14.80
		25	12	13.49	13.35	13.41	14.80
	DFT-s-OFDM 64QAM	1	1	13.37	13.26	13.31	14.80
		1	49	13.63	13.51	13.57	14.80
		25	12	13.42	13.32	13.39	14.80
	DFT-s-OFDM 256QAM	1	1	13.36	13.20	13.29	14.80
		1	49	13.58	13.39	13.50	14.80
		25	12	13.38	13.28	13.33	14.80
	CP-OFDM QPSK	1	1	13.23	13.11	13.17	14.80
	CP-OFDM 16QAM	1	1	13.15	13.06	13.11	14.80

	CP-OFDM 64QAM	1	1	13.84	13.72	13.78	14.80
	CP-OFDM 256QAM	1	1	12.70	12.60	12.78	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	13.30	13.28	13.36	14.80
		1	76	13.40	13.40	13.45	14.80
		36	18	13.29	13.26	13.38	14.80
		75	0	13.29	13.27	13.37	14.80
	DFT-s-OFDM QPSK	1	1	13.36	13.24	13.27	14.80
		1	76	13.41	13.45	13.43	14.80
		36	18	13.27	13.31	13.35	14.80
		75	0	13.23	13.24	13.34	14.80
	DFT-s-OFDM 16QAM	1	1	13.38	13.24	13.34	14.80
		1	76	13.58	13.51	13.54	14.80
		36	18	13.47	13.31	13.38	14.80
	DFT-s-OFDM 64QAM	1	1	13.34	13.21	13.27	14.80
		1	76	13.60	13.46	13.53	14.80
		36	18	13.40	13.28	13.34	14.80
	DFT-s-OFDM 256QAM	1	1	13.33	13.20	13.26	14.80
		1	76	13.55	13.41	13.47	14.80
		36	18	13.39	13.26	13.29	14.80
	CP-OFDM QPSK	1	1	13.21	13.07	13.18	14.80
	CP-OFDM 16QAM	1	1	13.12	13.01	13.07	14.80
	CP-OFDM 64QAM	1	1	13.81	13.67	13.74	14.80
	CP-OFDM 256QAM	1	1	12.68	12.56	12.73	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	13.32	13.29	13.39	14.80
		1	104	13.43	13.45	13.49	14.80
		50	25	13.31	13.30	13.41	14.80
		100	0	13.32	13.32	13.41	14.80
	DFT-s-OFDM QPSK	1	1	13.39	13.29	13.31	14.80
		1	104	13.43	13.49	13.48	14.80
		50	25	13.31	13.33	13.39	14.80
		100	0	13.27	13.27	13.36	14.80
	DFT-s-OFDM 16QAM	1	1	13.42	13.28	13.37	14.80
		1	104	13.61	13.53	13.57	14.80

		50	25	13.50	13.36	13.42	14.80
	DFT-s-OFDM 64QAM	1	1	13.36	13.25	13.30	14.80
		1	104	13.63	13.51	13.57	14.80
		50	25	13.43	13.33	13.38	14.80
	DFT-s-OFDM 256QAM	1	1	13.35	13.19	13.28	14.80
		1	104	13.58	13.41	13.50	14.80
		50	25	13.38	13.28	13.32	14.80
	CP-OFDM QPSK	1	1	13.24	13.12	13.18	14.80
	CP-OFDM 16QAM	1	1	13.14	13.05	13.10	14.80
	CP-OFDM 64QAM	1	1	13.84	13.72	13.78	14.80
	CP-OFDM 256QAM	1	1	12.71	12.61	12.77	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	5.33E+09	
50MHz	DFT-s-OFDM BPSK	1	1	13.38	13.39	13.46	14.80
		1	131	13.44	13.48	13.52	14.80
		64	32	13.38	13.38	13.50	14.80
		128	0	13.37	13.41	13.48	14.80
	DFT-s-OFDM QPSK	1	1	13.42	13.36	13.40	14.80
		1	131	13.49	13.53	13.54	14.80
		64	32	13.28	13.40	13.44	14.80
		128	0	13.24	13.35	13.45	14.80
	DFT-s-OFDM 16QAM	1	1	13.39	13.29	13.43	14.80
		1	131	13.66	13.60	13.64	14.80
		64	32	13.54	13.40	13.46	14.80
	DFT-s-OFDM 64QAM	1	1	13.44	13.34	13.39	14.80
		1	131	13.68	13.60	13.64	14.80
		64	32	13.46	13.40	13.47	14.80
	DFT-s-OFDM 256QAM	1	1	13.44	13.27	13.37	14.80
		1	131	13.64	13.42	13.56	14.80
		64	32	13.43	13.35	13.39	14.80
	CP-OFDM QPSK	1	1	13.28	13.16	13.22	14.80
	CP-OFDM 16QAM	1	1	13.22	13.14	13.19	14.80
	CP-OFDM 64QAM	1	1	13.89	13.81	13.85	14.80
	CP-OFDM 256QAM	1	1	12.74	12.68	12.86	14.80

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	13.31	13.25	13.37	14.80
		1	160	13.41	13.44	13.46	14.80
		81	40	13.28	13.25	13.37	14.80
		162	0	13.30	13.28	13.38	14.80
	DFT-s-OFDM QPSK	1	1	13.36	13.24	13.27	14.80
		1	160	13.40	13.46	13.44	14.80
		81	40	13.29	13.29	13.34	14.80
		162	0	13.25	13.25	13.34	14.80
	DFT-s-OFDM 16QAM	1	1	13.40	13.25	13.35	14.80
		1	160	13.59	13.49	13.54	14.80
		81	40	13.47	13.34	13.39	14.80
	DFT-s-OFDM 64QAM	1	1	13.33	13.20	13.26	14.80
		1	160	13.61	13.47	13.54	14.80
		81	40	13.40	13.28	13.34	14.80
	DFT-s-OFDM 256QAM	1	1	13.30	13.17	13.26	14.80
		1	160	13.56	13.38	13.48	14.80
		81	40	13.39	13.27	13.33	14.80
	CP-OFDM QPSK	1	1	13.23	13.14	13.19	14.80
	CP-OFDM 16QAM	1	1	13.12	13.02	13.09	14.80
	CP-OFDM 64QAM	1	1	13.82	13.68	13.75	14.80
	CP-OFDM 256QAM	1	1	12.68	12.56	12.73	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	13.37	13.38	13.45	14.80
		1	215	13.45	13.49	13.53	14.80
		108	54	13.37	13.37	13.49	14.80
		216	0	13.37	13.41	13.48	14.80
	DFT-s-OFDM QPSK	1	1	13.43	13.37	13.39	14.80
		1	215	13.49	13.55	13.55	14.80
		108	54	13.32	13.41	13.46	14.80
		216	0	13.28	13.34	13.44	14.80
	DFT-s-OFDM 16QAM	1	1	13.43	13.31	13.43	14.80
		1	215	13.66	13.60	13.63	14.80
		108	54	13.55	13.41	13.47	14.80
	DFT-s-OFDM 64QAM	1	1	13.43	13.33	13.38	14.80
		1	215	13.68	13.60	13.64	14.80
		108	54	13.47	13.41	13.46	14.80

	DFT-s-OFDM 256QAM	1	1	13.43	13.26	13.36	14.80
		1	215	13.64	13.44	13.56	14.80
		108	54	13.43	13.35	13.38	14.80
	CP-OFDM QPSK	1	1	13.29	13.17	13.23	14.80
	CP-OFDM 16QAM	1	1	13.21	13.13	13.18	14.80
	CP-OFDM 64QAM	1	1	13.89	13.81	13.85	14.80
	CP-OFDM 256QAM	1	1	12.75	12.69	12.85	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	13.36	13.34	13.43	14.80
		1	243	13.43	13.48	13.50	14.80
		120	60	13.34	13.32	13.45	14.80
		243	0	13.35	13.37	13.45	14.80
	DFT-s-OFDM QPSK	1	1	13.40	13.32	13.35	14.80
		1	243	13.46	13.52	13.51	14.80
		120	60	13.30	13.37	13.41	14.80
		243	0	13.26	13.32	13.42	14.80
	DFT-s-OFDM 16QAM	1	1	13.41	13.28	13.41	14.80
		1	243	13.64	13.56	13.60	14.80
		120	60	13.52	13.39	13.44	14.80
	DFT-s-OFDM 64QAM	1	1	13.40	13.28	13.34	14.80
		1	243	13.66	13.56	13.61	14.80
		120	60	13.44	13.36	13.42	14.80
	DFT-s-OFDM 256QAM	1	1	13.38	13.24	13.34	14.80
		1	243	13.62	13.41	13.54	14.80
		120	60	13.44	13.34	13.39	14.80
	CP-OFDM QPSK	1	1	13.28	13.19	13.24	14.80
	CP-OFDM 16QAM	1	1	13.19	13.10	13.17	14.80
	CP-OFDM 64QAM	1	1	13.87	13.77	13.82	14.80
	CP-OFDM 256QAM	1	1	12.72	12.64	12.81	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	13.28	13.21	13.34	14.80
		1	271	13.40	13.40	13.44	14.80
		135	67	13.26	13.24	13.34	14.80

		270	0	13.27	13.23	13.34	14.80
	DFT-s-OFDM QPSK	1	1	13.34	13.20	13.24	14.80
		1	271	13.37	13.41	13.40	14.80
		135	67	13.26	13.24	13.30	14.80
		270	0	13.22	13.21	13.29	14.80
	DFT-s-OFDM 16QAM	1	1	13.37	13.23	13.31	14.80
		1	271	13.56	13.46	13.52	14.80
		135	67	13.44	13.30	13.36	14.80
	DFT-s-OFDM 64QAM	1	1	13.30	13.18	13.23	14.80
		1	271	13.58	13.42	13.50	14.80
		135	67	13.38	13.24	13.31	14.80
	DFT-s-OFDM 256QAM	1	1	13.28	13.13	13.21	14.80
		1	271	13.52	13.36	13.44	14.80
		135	67	13.33	13.21	13.27	14.80
	CP-OFDM QPSK	1	1	13.18	13.06	13.12	14.80
	CP-OFDM 16QAM	1	1	13.08	12.98	13.03	14.80
	CP-OFDM 64QAM	1	1	13.79	13.63	13.71	14.80
	CP-OFDM 256QAM	1	1	12.66	12.52	12.70	14.80

NR n66							
Receiver on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	23.12	23.23	23.17	25.00
		1	23	23.11	23.25	23.23	25.00
		12	6	23.22	23.20	23.29	25.00
		25	0	22.74	22.72	22.63	24.50
	DFT-s-OFDM QPSK	1	1	23.32	23.15	23.31	25.00
		1	23	23.37	23.37	23.30	25.00
		12	6	23.24	23.23	23.41	25.00
		25	0	22.26	22.27	22.30	24.00
	DFT-s-OFDM 16QAM	1	1	22.21	22.15	22.32	24.00
		1	23	22.26	22.25	22.29	24.00
		12	6	22.38	22.28	22.47	24.00
	DFT-s-OFDM 64QAM	1	1	20.81	20.73	20.88	22.50
		1	23	20.90	20.84	21.01	22.50
		12	6	20.91	20.86	21.05	22.50
	DFT-s-OFDM 256QAM	1	1	19.07	19.02	19.16	20.50
		1	23	19.29	19.23	19.37	20.50

		12	6	18.82	18.75	18.82	20.50
	CP-OFDM QPSK	1	1	21.69	21.61	21.81	23.50
	CP-OFDM 16QAM	1	1	21.67	21.61	21.75	23.00
	CP-OFDM 64QAM	1	1	19.84	19.78	19.97	21.50
	CP-OFDM 256QAM	1	1	16.42	16.30	16.54	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	23.14	23.24	23.20	25.00
		1	50	23.14	23.30	23.27	25.00
		25	12	23.24	23.24	23.32	25.00
		50	0	22.77	22.77	22.67	24.50
	DFT-s-OFDM QPSK	1	1	23.35	23.20	23.35	25.00
		1	50	23.39	23.41	23.35	25.00
		25	12	23.28	23.25	23.45	25.00
		50	0	22.30	22.30	22.32	24.00
	DFT-s-OFDM 16QAM	1	1	22.25	22.19	22.35	24.00
		1	50	22.29	22.27	22.32	24.00
		25	12	22.41	22.33	22.51	24.00
	DFT-s-OFDM 64QAM	1	1	20.83	20.77	20.91	22.50
		1	50	20.93	20.89	21.05	22.50
		25	12	20.94	20.91	21.09	22.50
	DFT-s-OFDM 256QAM	1	1	19.09	19.01	19.18	20.50
		1	50	19.32	19.23	19.40	20.50
		25	12	18.81	18.77	18.85	20.50
	CP-OFDM QPSK	1	1	21.72	21.66	21.81	23.50
	CP-OFDM 16QAM	1	1	21.69	21.65	21.78	23.00
	CP-OFDM 64QAM	1	1	19.87	19.83	20.01	21.50
	CP-OFDM 256QAM	1	1	16.19	16.16	16.58	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	23.13	23.20	23.18	25.00
		1	77	23.12	23.29	23.24	25.00
		36	18	23.21	23.19	23.28	25.00
		75	0	22.75	22.73	22.64	24.50
	DFT-s-OFDM	1	1	23.32	23.15	23.31	25.00

	QPSK	1	77	23.36	23.38	23.31	25.00
		36	18	23.26	23.21	23.40	25.00
		75	0	22.28	22.28	22.30	24.00
	DFT-s-OFDM 16QAM	1	1	22.23	22.16	22.33	24.00
		1	77	22.27	22.23	22.29	24.00
		36	18	22.38	22.31	22.48	24.00
	DFT-s-OFDM 64QAM	1	1	20.80	20.72	20.87	22.50
		1	77	20.91	20.85	21.02	22.50
		36	18	20.91	20.86	21.05	22.50
	DFT-s-OFDM 256QAM	1	1	19.04	18.99	19.16	20.50
		1	77	19.30	19.20	19.38	20.50
		36	18	18.82	18.76	18.86	20.50
	CP-OFDM QPSK	1	1	21.71	21.68	21.82	23.50
Bandwidth	CP-OFDM 16QAM	1	1	21.67	21.62	21.77	23.00
	CP-OFDM 64QAM	1	1	19.85	19.79	19.98	21.50
	CP-OFDM 256QAM	1	1	16.22	16.38	16.54	18.50
	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	23.10	23.16	23.15	25.00
		1	104	23.11	23.25	23.22	25.00
		50	25	23.19	23.18	23.25	25.00
		100	0	22.72	22.68	22.60	24.50
	DFT-s-OFDM QPSK	1	1	23.30	23.11	23.28	25.00
		1	104	23.33	23.33	23.27	25.00
		50	25	23.23	23.16	23.36	25.00
		100	0	22.25	22.24	22.25	24.00
	DFT-s-OFDM 16QAM	1	1	22.20	22.14	22.29	24.00
		1	104	22.24	22.20	22.27	24.00
		50	25	22.35	22.27	22.45	24.00
	DFT-s-OFDM 64QAM	1	1	20.77	20.70	20.84	22.50
		1	104	20.88	20.80	20.98	22.50
		50	25	20.89	20.82	21.02	22.50
	DFT-s-OFDM 256QAM	1	1	19.02	18.95	19.11	20.50
		1	104	19.26	19.18	19.34	20.50
		50	25	18.76	18.70	18.80	20.50
	CP-OFDM QPSK	1	1	21.66	21.60	21.75	23.50
	CP-OFDM 16QAM	1	1	21.63	21.58	21.71	23.00

	CP-OFDM 64QAM	1	1	19.82	19.74	19.94	21.50
	CP-OFDM 256QAM	1	1	16.14	16.07	16.51	18.50

NR n66							
Receiver off-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	21.83	21.89	21.90	23.00
		1	23	21.87	21.90	21.93	23.00
		12	6	21.90	21.88	22.00	23.00
		25	0	21.93	21.98	22.02	23.00
	DFT-s-OFDM QPSK	1	1	21.81	21.92	21.80	23.00
		1	23	21.88	22.01	21.96	23.00
		12	6	21.78	21.99	21.91	23.00
		25	0	21.85	21.95	21.92	23.00
	DFT-s-OFDM 16QAM	1	1	21.90	21.85	21.99	23.00
		1	23	21.98	22.00	21.98	23.00
		12	6	22.01	21.95	22.03	23.00
	DFT-s-OFDM 64QAM	1	1	20.83	20.80	20.89	22.50
		1	23	20.92	20.96	21.00	22.50
		12	6	20.96	20.98	21.04	22.50
	DFT-s-OFDM 256QAM	1	1	18.98	18.95	19.05	20.50
		1	23	19.21	19.18	19.24	20.50
		12	6	18.81	18.84	18.82	20.50
	CP-OFDM QPSK	1	1	21.73	21.68	21.78	23.00
	CP-OFDM 16QAM	1	1	21.27	21.24	21.30	23.00
	CP-OFDM 64QAM	1	1	20.10	20.11	20.17	21.50
	CP-OFDM 256QAM	1	1	16.62	16.37	16.58	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	21.82	21.85	21.88	23.00
		1	50	21.85	21.89	21.90	23.00
		25	12	21.87	21.83	21.96	23.00
		50	0	21.91	21.94	21.99	23.00
	DFT-s-OFDM QPSK	1	1	21.78	21.87	21.76	23.00
		1	50	21.85	21.98	21.92	23.00
		25	12	21.76	21.95	21.86	23.00

		50	0	21.83	21.93	21.90	23.00
	DFT-s-OFDM 16QAM	1	1	21.88	21.82	21.97	23.00
		1	50	21.96	21.96	21.95	23.00
		25	12	21.98	21.93	22.00	23.00
		25	12	21.98	21.93	22.00	23.00
	DFT-s-OFDM 64QAM	1	1	20.80	20.75	20.85	22.50
		1	50	20.90	20.92	20.97	22.50
		25	12	20.93	20.93	21.00	22.50
		25	12	20.93	20.93	21.00	22.50
	DFT-s-OFDM 256QAM	1	1	18.93	18.93	19.03	20.50
		1	50	19.19	19.15	19.22	20.50
		25	12	18.82	18.83	18.83	20.50
		25	12	18.82	18.83	18.83	20.50
	CP-OFDM QPSK	1	1	21.72	21.70	21.79	23.00
	CP-OFDM 16QAM	1	1	21.25	21.21	21.29	23.00
	CP-OFDM 64QAM	1	1	20.08	20.07	20.14	21.50
	CP-OFDM 256QAM	1	1	16.59	16.41	16.54	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	21.79	21.81	21.85	23.00
		1	77	21.84	21.85	21.88	23.00
		36	18	21.85	21.82	21.93	23.00
		75	0	21.88	21.89	21.95	23.00
	DFT-s-OFDM QPSK	1	1	21.76	21.83	21.73	23.00
		1	77	21.82	21.93	21.88	23.00
		36	18	21.73	21.90	21.82	23.00
		75	0	21.80	21.89	21.85	23.00
	DFT-s-OFDM 16QAM	1	1	21.85	21.80	21.93	23.00
		1	77	21.93	21.93	21.93	23.00
		36	18	21.95	21.89	21.97	23.00
		36	18	21.95	21.89	21.97	23.00
	DFT-s-OFDM 64QAM	1	1	20.77	20.73	20.82	22.50
		1	77	20.87	20.87	20.93	22.50
		36	18	20.91	20.89	20.97	22.50
		36	18	20.91	20.89	20.97	22.50
	DFT-s-OFDM 256QAM	1	1	18.91	18.89	18.98	20.50
		1	77	19.15	19.13	19.18	20.50
		36	18	18.76	18.77	18.77	20.50
		36	18	18.76	18.77	18.77	20.50
	CP-OFDM QPSK	1	1	21.67	21.62	21.72	23.00
	CP-OFDM 16QAM	1	1	21.21	21.17	21.23	23.00
	CP-OFDM 64QAM	1	1	20.05	20.02	20.10	21.50

	CP-OFDM 256QAM	1	1	16.57	16.37	16.51	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	21.75	21.73	21.80	23.00
		1	104	21.81	21.80	21.83	23.00
		50	25	21.80	21.76	21.86	23.00
		100	0	21.83	21.80	21.88	23.00
	DFT-s-OFDM QPSK	1	1	21.71	21.74	21.66	23.00
		1	104	21.76	21.85	21.80	23.00
		50	25	21.68	21.81	21.73	23.00
		100	0	21.75	21.83	21.78	23.00
	DFT-s-OFDM 16QAM	1	1	21.80	21.75	21.87	23.00
		1	104	21.88	21.86	21.88	23.00
		50	25	21.89	21.83	21.91	23.00
	DFT-s-OFDM 64QAM	1	1	20.71	20.66	20.75	22.50
		1	104	20.82	20.78	20.86	22.50
		50	25	20.86	20.80	20.90	22.50
	DFT-s-OFDM 256QAM	1	1	18.84	18.83	18.91	20.50
		1	104	19.09	19.08	19.12	20.50
		50	25	18.71	18.70	18.72	20.50
	CP-OFDM QPSK	1	1	21.67	21.56	21.66	23.00
	CP-OFDM 16QAM	1	1	21.15	21.10	21.16	23.00
	CP-OFDM 64QAM	1	1	20.00	19.93	20.03	21.50
	CP-OFDM 256QAM	1	1	16.52	16.28	16.44	18.50

NR n66							
Hotspot on-Main Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	21.16	21.18	21.15	22.40
		1	23	21.20	21.18	21.20	22.40
		12	6	21.27	21.17	21.23	22.40
		25	0	21.32	21.26	21.28	22.40
	DFT-s-OFDM QPSK	1	1	21.15	21.17	21.21	22.40
		1	23	21.12	21.27	21.29	22.40
		12	6	21.13	21.27	21.30	22.40
		25	0	21.11	21.24	21.33	22.40
	DFT-s-OFDM	1	1	21.34	21.17	21.28	22.40

	16QAM	1	23	21.39	21.32	21.33	22.40
		12	6	21.36	21.21	21.29	22.40
	DFT-s-OFDM 64QAM	1	1	20.83	20.68	20.78	22.40
		1	23	20.96	20.82	20.89	22.40
		12	6	20.92	20.81	20.86	22.40
	DFT-s-OFDM 256QAM	1	1	19.04	18.90	18.96	20.50
		1	23	19.27	19.14	19.19	20.50
		12	6	18.85	18.75	18.75	20.50
	CP-OFDM QPSK	1	1	21.14	20.99	21.11	22.40
	CP-OFDM 16QAM	1	1	21.11	21.00	21.06	22.40
	CP-OFDM 64QAM	1	1	20.11	19.97	20.04	21.50
	CP-OFDM 256QAM	1	1	16.35	16.17	16.25	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	21.18	21.19	21.18	22.40
		1	50	21.23	21.23	21.24	22.40
		25	12	21.29	21.21	21.26	22.40
		50	0	21.35	21.31	21.32	22.40
	DFT-s-OFDM QPSK	1	1	21.18	21.22	21.25	22.40
		1	50	21.14	21.31	21.34	22.40
		25	12	21.17	21.29	21.34	22.40
		50	0	21.15	21.27	21.35	22.40
	DFT-s-OFDM 16QAM	1	1	21.38	21.21	21.31	22.40
		1	50	21.42	21.34	21.36	22.40
		25	12	21.39	21.26	21.33	22.40
	DFT-s-OFDM 64QAM	1	1	20.85	20.72	20.81	22.40
		1	50	20.99	20.87	20.93	22.40
		25	12	20.95	20.86	20.90	22.40
	DFT-s-OFDM 256QAM	1	1	19.06	18.89	18.98	20.50
		1	50	19.30	19.14	19.22	20.50
		25	12	18.84	18.77	18.78	20.50
	CP-OFDM QPSK	1	1	21.17	21.04	21.11	22.40
	CP-OFDM 16QAM	1	1	21.13	21.04	21.09	22.40
	CP-OFDM 64QAM	1	1	20.14	20.02	20.08	21.50
	CP-OFDM 256QAM	1	1	16.38	16.22	16.29	18.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	21.17	21.15	21.16	22.40
		1	77	21.21	21.22	21.21	22.40
		36	18	21.26	21.16	21.22	22.40
		75	0	21.33	21.27	21.29	22.40
	DFT-s-OFDM QPSK	1	1	21.15	21.17	21.21	22.40
		1	77	21.11	21.28	21.30	22.40
		36	18	21.15	21.25	21.29	22.40
		75	0	21.13	21.25	21.33	22.40
	DFT-s-OFDM 16QAM	1	1	21.36	21.18	21.29	22.40
		1	77	21.40	21.30	21.33	22.40
		36	18	21.36	21.24	21.30	22.40
	DFT-s-OFDM 64QAM	1	1	20.82	20.67	20.77	22.40
		1	77	20.97	20.83	20.90	22.40
		36	18	20.92	20.81	20.86	22.40
	DFT-s-OFDM 256QAM	1	1	19.01	18.87	18.96	20.50
		1	77	19.28	19.11	19.20	20.50
		36	18	18.85	18.76	18.79	20.50
	CP-OFDM QPSK	1	1	21.16	21.06	21.12	22.40
	CP-OFDM 16QAM	1	1	21.11	21.01	21.08	22.40
	CP-OFDM 64QAM	1	1	20.12	19.98	20.05	21.50
	CP-OFDM 256QAM	1	1	16.35	16.17	16.25	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	21.14	21.11	21.13	22.40
		1	104	21.20	21.18	21.19	22.40
		50	25	21.24	21.15	21.19	22.40
		100	0	21.30	21.22	21.25	22.40
	DFT-s-OFDM QPSK	1	1	21.13	21.13	21.18	22.40
		1	104	21.08	21.23	21.26	22.40
		50	25	21.12	21.20	21.25	22.40
		100	0	21.10	21.21	21.28	22.40
	DFT-s-OFDM 16QAM	1	1	21.33	21.16	21.25	22.40
		1	104	21.37	21.27	21.31	22.40
		50	25	21.33	21.20	21.27	22.40
	DFT-s-OFDM 64QAM	1	1	20.79	20.65	20.74	22.40
		1	104	20.94	20.78	20.86	22.40
		50	25	20.90	20.77	20.83	22.40

	DFT-s-OFDM 256QAM	1	1	18.99	18.83	18.91	20.50
		1	104	19.24	19.09	19.16	20.50
		50	25	18.79	18.70	18.73	20.50
	CP-OFDM QPSK	1	1	21.11	20.98	21.05	22.40
	CP-OFDM 16QAM	1	1	21.07	20.97	21.02	22.40
	CP-OFDM 64QAM	1	1	20.09	19.93	20.01	21.50
	CP-OFDM 256QAM	1	1	16.33	16.13	16.22	18.50

NR n66							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	18.96	18.97	19.04	19.50
		1	23	18.90	18.86	18.94	19.50
		12	6	18.86	18.84	18.95	19.50
		25	0	18.91	18.88	19.00	19.50
	DFT-s-OFDM QPSK	1	1	18.88	18.91	18.77	19.50
		1	23	18.94	18.92	18.75	19.50
		12	6	18.82	18.88	18.76	19.50
		25	0	18.85	18.86	18.79	19.50
	DFT-s-OFDM 16QAM	1	1	18.87	18.82	18.87	19.50
		1	23	18.81	18.82	18.81	19.50
		12	6	18.82	18.74	18.78	19.50
	DFT-s-OFDM 64QAM	1	1	19.04	18.97	19.02	19.50
		1	23	19.02	18.99	19.01	19.50
		12	6	18.88	18.82	18.85	19.50
	DFT-s-OFDM 256QAM	1	1	18.47	18.44	18.46	19.50
		1	23	18.44	18.40	18.43	19.50
		12	6	18.40	18.34	18.35	19.50
	CP-OFDM QPSK	1	1	18.81	18.75	18.82	19.50
	CP-OFDM 16QAM	1	1	18.76	18.69	18.73	19.50
	CP-OFDM 64QAM	1	1	18.94	18.89	18.91	19.50
	CP-OFDM 256QAM	1	1	15.72	15.68	15.71	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	18.98	18.98	19.07	19.50
		1	50	18.93	18.91	18.98	19.50
		25	12	18.88	18.88	18.98	19.50
		50	0	18.94	18.93	19.04	19.50
	DFT-s-OFDM QPSK	1	1	18.91	18.96	18.81	19.50
		1	50	18.96	18.96	18.80	19.50
		25	12	18.86	18.90	18.80	19.50
		50	0	18.89	18.89	18.81	19.50
	DFT-s-OFDM 16QAM	1	1	18.91	18.86	18.90	19.50
		1	50	18.84	18.84	18.84	19.50
		25	12	18.85	18.79	18.82	19.50
	DFT-s-OFDM 64QAM	1	1	19.06	19.01	19.05	19.50
		1	50	19.05	19.04	19.05	19.50
		25	12	18.91	18.87	18.89	19.50
	DFT-s-OFDM 256QAM	1	1	18.49	18.43	18.48	19.50
		1	50	18.47	18.40	18.46	19.50
		25	12	18.39	18.36	18.38	19.50
	CP-OFDM QPSK	1	1	18.84	18.80	18.82	19.50
	CP-OFDM 16QAM	1	1	18.78	18.73	18.76	19.50
	CP-OFDM 64QAM	1	1	18.97	18.94	18.95	19.50
	CP-OFDM 256QAM	1	1	15.75	15.73	15.75	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	18.97	18.94	19.05	19.50
		1	77	18.91	18.90	18.95	19.50
		36	18	18.85	18.83	18.94	19.50
		75	0	18.92	18.89	19.01	19.50
	DFT-s-OFDM QPSK	1	1	18.88	18.91	18.77	19.50
		1	77	18.93	18.93	18.76	19.50
		36	18	18.84	18.86	18.75	19.50
		75	0	18.87	18.87	18.79	19.50
	DFT-s-OFDM 16QAM	1	1	18.89	18.83	18.88	19.50
		1	77	18.82	18.80	18.81	19.50
		36	18	18.82	18.77	18.79	19.50
	DFT-s-OFDM 64QAM	1	1	19.03	18.96	19.01	19.50
		1	77	19.03	19.00	19.02	19.50
		36	18	18.88	18.82	18.85	19.50

	DFT-s-OFDM 256QAM	1	1	18.44	18.41	18.46	19.50
		1	77	18.45	18.37	18.44	19.50
		36	18	18.40	18.35	18.39	19.50
	CP-OFDM QPSK	1	1	18.83	18.82	18.83	19.50
	CP-OFDM 16QAM	1	1	18.76	18.70	18.75	19.50
	CP-OFDM 64QAM	1	1	18.95	18.90	18.92	19.50
	CP-OFDM 256QAM	1	1	15.72	15.68	15.71	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	18.94	18.90	19.02	19.50
		1	104	18.90	18.86	18.93	19.50
		50	25	18.83	18.82	18.91	19.50
		100	0	18.89	18.84	18.97	19.50
	DFT-s-OFDM QPSK	1	1	18.86	18.87	18.74	19.50
		1	104	18.90	18.88	18.72	19.50
		50	25	18.81	18.81	18.71	19.50
		100	0	18.84	18.83	18.74	19.50
	DFT-s-OFDM 16QAM	1	1	18.86	18.81	18.84	19.50
		1	104	18.79	18.77	18.79	19.50
		50	25	18.79	18.73	18.76	19.50
	DFT-s-OFDM 64QAM	1	1	19.00	18.94	18.98	19.50
		1	104	19.00	18.95	18.98	19.50
		50	25	18.86	18.78	18.82	19.50
	DFT-s-OFDM 256QAM	1	1	18.42	18.37	18.41	19.50
		1	104	18.41	18.35	18.40	19.50
		50	25	18.34	18.29	18.33	19.50
	CP-OFDM QPSK	1	1	18.78	18.74	18.76	19.50
	CP-OFDM 16QAM	1	1	18.72	18.66	18.69	19.50
	CP-OFDM 64QAM	1	1	18.92	18.85	18.88	19.50
	CP-OFDM 256QAM	1	1	15.70	15.64	15.68	17.50

NR n66							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	21.66	21.71	21.68	22.30
		1	23	21.60	21.59	21.62	22.30
		12	6	21.70	21.65	21.74	22.30
		25	0	21.70	21.71	21.73	22.30
	DFT-s-OFDM QPSK	1	1	21.68	21.72	21.64	22.30
		1	23	21.70	21.75	21.64	22.30
		12	6	21.62	21.77	21.63	22.30
		25	0	21.66	21.55	21.60	22.30
	DFT-s-OFDM 16QAM	1	1	21.52	21.44	21.64	22.30
		1	23	21.53	21.52	21.57	22.30
		12	6	21.68	21.60	21.74	22.30
	DFT-s-OFDM 64QAM	1	1	20.87	20.82	20.97	21.50
		1	23	20.41	20.39	20.52	21.50
		12	6	20.30	20.29	20.39	21.50
	DFT-s-OFDM 256QAM	1	1	18.64	18.57	18.72	19.50
		1	23	18.60	18.53	18.67	19.50
		12	6	18.48	18.43	18.47	19.50
	CP-OFDM QPSK	1	1	21.64	21.56	21.74	22.30
	CP-OFDM 16QAM	1	1	21.41	21.36	21.47	22.00
	CP-OFDM 64QAM	1	1	19.55	19.53	19.66	20.50
	CP-OFDM 256QAM	1	1	15.99	15.98	16.11	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	21.62	21.63	21.63	22.30
		1	50	21.57	21.54	21.57	22.30
		25	12	21.65	21.59	21.67	22.30
		50	0	21.65	21.62	21.66	22.30
	DFT-s-OFDM QPSK	1	1	21.63	21.63	21.57	22.30
		1	50	21.64	21.67	21.56	22.30
		25	12	21.57	21.68	21.54	22.30
		50	0	21.61	21.49	21.53	22.30
	DFT-s-OFDM 16QAM	1	1	21.47	21.39	21.58	22.30
		1	50	21.48	21.45	21.52	22.30
		25	12	21.62	21.54	21.68	22.30

	DFT-s-OFDM 64QAM	1	1	20.81	20.75	20.90	21.50
		1	50	20.36	20.30	20.45	21.50
		25	12	20.25	20.20	20.32	21.50
	DFT-s-OFDM 256QAM	1	1	18.57	18.51	18.65	19.50
		1	50	18.54	18.48	18.61	19.50
		25	12	18.43	18.36	18.42	19.50
	CP-OFDM QPSK	1	1	21.58	21.50	21.68	22.30
	CP-OFDM 16QAM	1	1	21.35	21.29	21.40	22.00
	CP-OFDM 64QAM	1	1	19.50	19.44	19.59	20.50
	CP-OFDM 256QAM	1	1	15.94	15.89	16.04	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	21.64	21.64	21.66	22.30
		1	77	21.60	21.59	21.61	22.30
		36	18	21.67	21.63	21.70	22.30
		75	0	21.68	21.67	21.70	22.30
	DFT-s-OFDM QPSK	1	1	21.66	21.68	21.61	22.30
		1	77	21.66	21.71	21.61	22.30
		36	18	21.61	21.70	21.58	22.30
		75	0	21.65	21.52	21.55	22.30
	DFT-s-OFDM 16QAM	1	1	21.51	21.43	21.61	22.30
		1	77	21.51	21.47	21.55	22.30
		36	18	21.65	21.59	21.72	22.30
	DFT-s-OFDM 64QAM	1	1	20.83	20.79	20.93	21.50
		1	77	20.39	20.35	20.49	21.50
		36	18	20.28	20.25	20.36	21.50
	DFT-s-OFDM 256QAM	1	1	18.59	18.50	18.67	19.50
		1	77	18.57	18.48	18.64	19.50
		36	18	18.42	18.38	18.45	19.50
	CP-OFDM QPSK	1	1	21.61	21.55	21.68	22.30
	CP-OFDM 16QAM	1	1	21.37	21.33	21.43	22.00
	CP-OFDM 64QAM	1	1	19.53	19.49	19.63	20.50
	CP-OFDM 256QAM	1	1	15.97	15.94	16.08	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	21.60	21.56	21.61	22.30
		1	104	21.57	21.54	21.56	22.30
		50	25	21.62	21.57	21.63	22.30
		100	0	21.63	21.58	21.63	22.30
	DFT-s-OFDM QPSK	1	1	21.61	21.59	21.54	22.30
		1	104	21.60	21.63	21.53	22.30
		50	25	21.56	21.61	21.49	22.30
		100	0	21.60	21.46	21.48	22.30
	DFT-s-OFDM 16QAM	1	1	21.46	21.38	21.55	22.30
		1	104	21.46	21.40	21.50	22.30
		50	25	21.59	21.53	21.66	22.30
	DFT-s-OFDM 64QAM	1	1	20.77	20.72	20.86	21.50
		1	104	20.34	20.26	20.42	21.50
		50	25	20.23	20.16	20.29	21.50
	DFT-s-OFDM 256QAM	1	1	18.52	18.44	18.60	19.50
		1	104	18.51	18.43	18.58	19.50
		50	25	18.37	18.31	18.40	19.50
	CP-OFDM QPSK	1	1	21.55	21.49	21.62	22.30
	CP-OFDM 16QAM	1	1	21.31	21.26	21.36	22.00
	CP-OFDM 64QAM	1	1	19.48	19.40	19.56	20.50
	CP-OFDM 256QAM	1	1	15.92	15.85	16.01	17.50

NR n66							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	16.75	16.72	16.69	17.50
		1	23	16.63	16.61	16.62	17.50
		12	6	16.68	16.62	16.66	17.50
		25	0	16.73	16.69	16.68	17.50
	DFT-s-OFDM QPSK	1	1	16.66	16.70	16.63	17.50
		1	23	16.74	16.66	16.59	17.50
		12	6	16.59	16.66	16.56	17.50
		25	0	16.57	16.63	16.60	17.50
	DFT-s-OFDM 16QAM	1	1	16.44	16.48	16.60	17.50
		1	23	16.47	16.52	16.54	17.50
		12	6	16.65	16.69	16.76	17.50

	DFT-s-OFDM 64QAM	1	1	16.66	16.71	16.79	17.50
		1	23	16.58	16.69	16.72	17.50
		12	6	16.58	16.69	16.76	17.50
	DFT-s-OFDM 256QAM	1	1	16.75	16.78	16.86	17.50
		1	23	16.75	16.76	16.87	17.50
		12	6	16.61	16.68	16.70	17.50
	CP-OFDM QPSK	1	1	16.75	16.77	16.87	17.50
	CP-OFDM 16QAM	1	1	16.88	16.92	17.03	17.50
	CP-OFDM 64QAM	1	1	16.72	16.84	16.88	17.50
	CP-OFDM 256QAM	1	1	15.93	16.04	16.02	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	16.74	16.68	16.67	17.50
		1	50	16.61	16.60	16.59	17.50
		25	12	16.65	16.57	16.62	17.50
		50	0	16.71	16.65	16.65	17.50
	DFT-s-OFDM QPSK	1	1	16.63	16.65	16.59	17.50
		1	50	16.71	16.63	16.55	17.50
		25	12	16.57	16.62	16.51	17.50
		50	0	16.55	16.61	16.58	17.50
	DFT-s-OFDM 16QAM	1	1	16.42	16.45	16.58	17.50
		1	50	16.45	16.48	16.51	17.50
		25	12	16.62	16.67	16.73	17.50
	DFT-s-OFDM 64QAM	1	1	16.63	16.66	16.75	17.50
		1	50	16.56	16.65	16.69	17.50
		25	12	16.55	16.64	16.72	17.50
	DFT-s-OFDM 256QAM	1	1	16.70	16.76	16.84	17.50
		1	50	16.73	16.73	16.85	17.50
		25	12	16.62	16.67	16.71	17.50
	CP-OFDM QPSK	1	1	16.74	16.79	16.88	17.50
	CP-OFDM 16QAM	1	1	16.86	16.89	17.02	17.50
	CP-OFDM 64QAM	1	1	16.70	16.80	16.85	17.50
	CP-OFDM 256QAM	1	1	15.90	15.99	15.98	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	16.71	16.64	16.64	17.50
		1	77	16.60	16.56	16.57	17.50
		36	18	16.63	16.56	16.59	17.50
		75	0	16.68	16.60	16.61	17.50
	DFT-s-OFDM QPSK	1	1	16.61	16.61	16.56	17.50
		1	77	16.68	16.58	16.51	17.50
		36	18	16.54	16.57	16.47	17.50
		75	0	16.52	16.57	16.53	17.50
	DFT-s-OFDM 16QAM	1	1	16.39	16.43	16.54	17.50
		1	77	16.42	16.45	16.49	17.50
		36	18	16.59	16.63	16.70	17.50
	DFT-s-OFDM 64QAM	1	1	16.60	16.64	16.72	17.50
		1	77	16.53	16.60	16.65	17.50
		36	18	16.53	16.60	16.69	17.50
	DFT-s-OFDM 256QAM	1	1	16.68	16.72	16.79	17.50
		1	77	16.69	16.71	16.81	17.50
		36	18	16.56	16.61	16.65	17.50
	CP-OFDM QPSK	1	1	16.69	16.71	16.81	17.50
	CP-OFDM 16QAM	1	1	16.82	16.85	16.96	17.50
	CP-OFDM 64QAM	1	1	16.67	16.75	16.81	17.50
	CP-OFDM 256QAM	1	1	15.88	15.95	15.95	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	16.66	16.55	16.58	17.50
		1	104	16.58	16.52	16.53	17.50
		50	25	16.57	16.49	16.51	17.50
		100	0	16.63	16.51	16.54	17.50
	DFT-s-OFDM QPSK	1	1	16.57	16.53	16.48	17.50
		1	104	16.62	16.52	16.44	17.50
		50	25	16.53	16.49	16.40	17.50
		100	0	16.51	16.50	16.45	17.50
	DFT-s-OFDM 16QAM	1	1	16.38	16.40	16.48	17.50
		1	104	16.37	16.38	16.43	17.50
		50	25	16.54	16.58	16.65	17.50
	DFT-s-OFDM 64QAM	1	1	16.53	16.56	16.64	17.50
		1	104	16.48	16.51	16.58	17.50
		50	25	16.49	16.52	16.61	17.50

	DFT-s-OFDM 256QAM	1	1	16.60	16.65	16.71	17.50
		1	104	16.63	16.68	16.75	17.50
		50	25	16.51	16.54	16.59	17.50
	CP-OFDM QPSK	1	1	16.64	16.66	16.76	17.50
	CP-OFDM 16QAM	1	1	16.75	16.77	16.88	17.50
	CP-OFDM 64QAM	1	1	16.62	16.66	16.74	17.50
	CP-OFDM 256QAM	1	1	15.84	15.87	15.87	17.50

NR n78 PC2							
Receiver on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	16.02	15.98	15.87	17.30
		1	49	15.99	16.00	15.98	17.30
		25	12	16.01	15.94	15.95	17.30
		50	0	16.07	16.04	15.97	17.30
	DFT-s-OFDM QPSK	1	1	15.92	15.90	15.85	17.30
		1	49	16.19	16.15	16.11	17.30
		25	12	15.96	15.97	15.88	17.30
		50	0	15.91	15.91	15.90	17.30
	DFT-s-OFDM 16QAM	1	1	15.69	15.67	15.71	17.30
		1	49	15.97	15.92	15.85	17.30
		25	12	15.98	15.94	15.92	17.30
	DFT-s-OFDM 64QAM	1	1	15.89	15.81	15.79	17.30
		1	49	16.01	15.98	15.91	17.30
		25	12	16.02	16.00	15.95	17.30
	DFT-s-OFDM 256QAM	1	1	16.00	15.94	15.89	17.30
		1	49	16.05	15.97	15.97	17.30
		25	12	15.98	15.93	15.87	17.30
	CP-OFDM QPSK	1	1	15.82	15.80	15.78	17.30
	CP-OFDM 16QAM	1	1	16.24	16.17	16.16	17.30
	CP-OFDM 64QAM	1	1	16.26	16.23	16.16	17.30
	CP-OFDM 256QAM	1	1	15.64	15.62	15.57	17.30

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	15.99	15.94	15.84	17.30
		1	76	15.98	15.96	15.96	17.30
		36	18	15.99	15.93	15.92	17.30
		75	0	16.04	15.99	15.93	17.30
	DFT-s-OFDM QPSK	1	1	15.90	15.86	15.82	17.30
		1	76	16.16	16.10	16.07	17.30
		36	18	15.93	15.92	15.84	17.30
		75	0	15.88	15.87	15.85	17.30
	DFT-s-OFDM 16QAM	1	1	15.66	15.65	15.67	17.30
		1	76	15.94	15.89	15.83	17.30
		36	18	15.95	15.90	15.89	17.30
	DFT-s-OFDM 64QAM	1	1	15.86	15.79	15.76	17.30
		1	76	15.98	15.93	15.87	17.30
		36	18	16.00	15.96	15.92	17.30
	DFT-s-OFDM 256QAM	1	1	15.98	15.90	15.84	17.30
		1	76	16.01	15.95	15.93	17.30
		36	18	15.92	15.87	15.81	17.30
	CP-OFDM QPSK	1	1	15.77	15.72	15.71	17.30
	CP-OFDM 16QAM	1	1	16.20	16.13	16.10	17.30
	CP-OFDM 64QAM	1	1	16.23	16.18	16.12	17.30
	CP-OFDM 256QAM	1	1	15.62	15.58	15.54	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	15.96	15.92	15.80	17.30
		1	104	15.96	15.92	15.93	17.30
		50	25	15.96	15.88	15.88	17.30
		100	0	16.01	15.94	15.89	17.30
	DFT-s-OFDM QPSK	1	1	15.88	15.82	15.77	17.30
		1	104	16.14	16.08	16.03	17.30
		50	25	15.93	15.91	15.82	17.30
		100	0	15.88	15.83	15.82	17.30
	DFT-s-OFDM 16QAM	1	1	15.66	15.63	15.64	17.30
		1	104	15.91	15.87	15.79	17.30
		50	25	15.93	15.86	15.86	17.30
	DFT-s-OFDM 64QAM	1	1	15.83	15.74	15.72	17.30
		1	104	15.95	15.88	15.83	17.30
		50	25	15.98	15.92	15.87	17.30

	DFT-s-OFDM 256QAM	1	1	15.95	15.90	15.81	17.30
		1	104	15.98	15.97	15.90	17.30
		50	25	15.93	15.85	15.77	17.30
	CP-OFDM QPSK	1	1	15.75	15.68	15.72	17.30
	CP-OFDM 16QAM	1	1	16.17	16.08	16.06	17.30
	CP-OFDM 64QAM	1	1	16.20	16.13	16.08	17.30
	CP-OFDM 256QAM	1	1	15.60	15.54	15.49	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	15.98	15.93	15.83	17.30
		1	131	15.99	15.97	15.97	17.30
		64	32	15.98	15.92	15.91	17.30
		128	0	16.04	15.99	15.93	17.30
	DFT-s-OFDM QPSK	1	1	15.91	15.87	15.81	17.30
		1	131	16.16	16.12	16.08	17.30
		64	32	15.97	15.93	15.86	17.30
		128	0	15.92	15.86	15.84	17.30
	DFT-s-OFDM 16QAM	1	1	15.70	15.67	15.67	17.30
		1	131	15.94	15.89	15.82	17.30
		64	32	15.96	15.91	15.90	17.30
	DFT-s-OFDM 64QAM	1	1	15.85	15.78	15.75	17.30
		1	131	15.98	15.93	15.87	17.30
		64	32	16.01	15.97	15.91	17.30
	DFT-s-OFDM 256QAM	1	1	15.97	15.89	15.83	17.30
		1	131	16.01	15.97	15.93	17.30
		64	32	15.92	15.87	15.80	17.30
	CP-OFDM QPSK	1	1	15.78	15.73	15.72	17.30
	CP-OFDM 16QAM	1	1	16.19	16.12	16.09	17.30
	CP-OFDM 64QAM	1	1	16.23	16.18	16.12	17.30
	CP-OFDM 256QAM	1	1	15.63	15.59	15.53	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	16.03	16.02	15.89	17.30
		1	160	16.01	16.01	16.01	17.30
		81	40	16.04	15.99	15.99	17.30

		162	0	16.09	16.08	16.00	17.30
	DFT-s-OFDM QPSK	1	1	15.95	15.95	15.89	17.30
		1	160	16.22	16.18	16.15	17.30
		81	40	15.98	16.01	15.93	17.30
		162	0	15.93	15.93	15.92	17.30
	DFT-s-OFDM 16QAM	1	1	15.71	15.70	15.73	17.30
		1	160	15.99	15.96	15.88	17.30
		81	40	16.01	15.96	15.95	17.30
	DFT-s-OFDM 64QAM	1	1	15.92	15.86	15.83	17.30
		1	160	16.03	16.02	15.94	17.30
		81	40	16.05	16.05	15.99	17.30
	DFT-s-OFDM 256QAM	1	1	16.05	15.96	15.91	17.30
		1	160	16.07	16.00	15.99	17.30
		81	40	15.97	15.94	15.86	17.30
	CP-OFDM QPSK	1	1	15.83	15.78	15.77	17.30
	CP-OFDM 16QAM	1	1	16.26	16.20	16.17	17.30
	CP-OFDM 64QAM	1	1	16.28	16.27	16.19	17.30
	CP-OFDM 256QAM	1	1	15.67	15.67	15.61	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	15.97	15.89	15.81	17.30
		1	187	15.97	15.96	15.94	17.30
		92	45	15.95	15.87	15.87	17.30
		180	0	16.02	15.95	15.90	17.30
	DFT-s-OFDM QPSK	1	1	15.88	15.82	15.77	17.30
		1	187	16.13	16.09	16.04	17.30
		92	45	15.95	15.89	15.81	17.30
		180	0	15.90	15.84	15.82	17.30
	DFT-s-OFDM 16QAM	1	1	15.68	15.64	15.65	17.30
		1	187	15.92	15.85	15.79	17.30
		92	46	15.93	15.89	15.87	17.30
	DFT-s-OFDM 64QAM	1	1	15.82	15.73	15.71	17.30
		1	187	15.96	15.89	15.84	17.30
		92	46	15.98	15.92	15.87	17.30
	DFT-s-OFDM 256QAM	1	1	15.92	15.87	15.81	17.30
		1	187	15.99	15.94	15.91	17.30
		92	46	15.93	15.86	15.81	17.30
	CP-OFDM QPSK	1	1	15.77	15.75	15.73	17.30

	CP-OFDM 16QAM	1	1	16.17	16.09	16.08	17.30
	CP-OFDM 64QAM	1	1	16.21	16.14	16.09	17.30
	CP-OFDM 256QAM	1	1	15.60	15.54	15.49	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	16.01	16.01	15.86	17.30
		1	215	15.98	15.96	15.97	17.30
		108	54	16.02	15.95	15.96	17.30
		216	0	16.06	16.03	15.96	17.30
	DFT-s-OFDM QPSK	1	1	15.92	15.90	15.85	17.30
		1	215	16.20	16.14	16.10	17.30
		108	54	15.94	15.99	15.89	17.30
		216	0	15.89	15.90	15.90	17.30
	DFT-s-OFDM 16QAM	1	1	15.67	15.66	15.70	17.30
		1	215	15.96	15.94	15.85	17.30
		108	54	15.98	15.91	15.91	17.30
	DFT-s-OFDM 64QAM	1	1	15.90	15.82	15.80	17.30
		1	215	16.00	15.97	15.90	17.30
		108	54	16.02	16.00	15.95	17.30
	DFT-s-OFDM 256QAM	1	1	16.03	15.97	15.89	17.30
		1	215	16.04	16.00	15.96	17.30
		108	54	15.98	15.92	15.83	17.30
	CP-OFDM QPSK	1	1	15.80	15.73	15.77	17.30
	CP-OFDM 16QAM	1	1	16.24	16.16	16.14	17.30
	CP-OFDM 64QAM	1	1	16.25	16.22	16.15	17.30
	CP-OFDM 256QAM	1	1	15.64	15.62	15.57	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	15.94	15.85	15.78	17.30
		1	243	15.96	15.92	15.92	17.30
		120	60	15.93	15.86	15.84	17.30
		243	0	15.99	15.90	15.86	17.30
	DFT-s-OFDM QPSK	1	1	15.86	15.78	15.74	17.30
		1	243	16.10	16.04	16.00	17.30
		120	60	15.92	15.84	15.77	17.30
		243	0	15.87	15.80	15.77	17.30

	DFT-s-OFDM 16QAM	1	1	15.65	15.62	15.61	17.30
		1	243	15.89	15.82	15.77	17.30
		120	60	15.90	15.85	15.84	17.30
	DFT-s-OFDM 64QAM	1	1	15.79	15.71	15.68	17.30
		1	243	15.93	15.84	15.80	17.30
		120	60	15.96	15.88	15.84	17.30
	DFT-s-OFDM 256QAM	1	1	15.90	15.83	15.76	17.30
		1	243	15.95	15.92	15.87	17.30
		120	60	15.87	15.80	15.75	17.30
	CP-OFDM QPSK	1	1	15.72	15.67	15.66	17.30
	CP-OFDM 16QAM	1	1	16.13	16.05	16.02	17.30
	CP-OFDM 64QAM	1	1	16.18	16.09	16.05	17.30
	CP-OFDM 256QAM	1	1	15.58	15.50	15.46	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	15.73	/	17.30
		1	271	/	15.90	/	17.30
		135	67	/	15.78	/	17.30
		270	0	/	15.81	/	17.30
	DFT-s-OFDM QPSK	1	1	/	15.70	/	17.30
		1	271	/	15.94	/	17.30
		135	67	/	15.76	/	17.30
		270	0	/	15.76	/	17.30
	DFT-s-OFDM 16QAM	1	1	/	15.60	/	17.30
		1	271	/	15.72	/	17.30
		135	67	/	15.79	/	17.30
	DFT-s-OFDM 64QAM	1	1	/	15.61	/	17.30
		1	271	/	15.75	/	17.30
		135	67	/	15.80	/	17.30
	DFT-s-OFDM 256QAM	1	1	/	15.68	/	17.30
		1	271	/	15.81	/	17.30
		135	67	/	15.70	/	17.30
	CP-OFDM QPSK	1	1	/	15.61	/	17.30
	CP-OFDM 16QAM	1	1	/	15.95	/	17.30
	CP-OFDM 64QAM	1	1	/	16.00	/	17.30
	CP-OFDM	1	1	/	15.42	/	17.30

	256QAM						

NR n78 PC2							
Receiver off-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	20.57	20.52	20.49	21.90
		1	49	20.67	20.58	20.61	21.90
		25	12	20.61	20.47	20.56	21.90
		50	0	20.63	20.52	20.54	21.90
	DFT-s-OFDM QPSK	1	1	20.52	20.43	20.46	21.90
		1	49	20.76	20.57	20.63	21.90
		25	12	20.57	20.55	20.53	21.90
		50	0	20.58	20.54	20.58	21.90
	DFT-s-OFDM 16QAM	1	1	20.25	20.18	20.24	21.90
		1	49	20.49	20.41	20.42	21.90
		25	12	20.64	20.47	20.53	21.90
	DFT-s-OFDM 64QAM	1	1	20.45	20.29	20.37	21.90
		1	49	20.61	20.50	20.52	21.90
		25	12	20.64	20.55	20.58	21.90
	DFT-s-OFDM 256QAM	1	1	20.60	20.42	20.49	21.90
		1	49	20.65	20.50	20.57	21.90
		25	12	20.70	20.55	20.56	21.90
	CP-OFDM QPSK	1	1	20.45	20.24	20.34	21.90
	CP-OFDM 16QAM	1	1	20.79	20.61	20.69	21.90
	CP-OFDM 64QAM	1	1	20.81	20.70	20.72	21.90
CP-OFDM 256QAM	1	1	18.70	18.61	18.64	20.20	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	20.59	20.53	20.52	21.90
		1	76	20.70	20.63	20.65	21.90
		36	18	20.63	20.51	20.59	21.90
		75	0	20.66	20.57	20.58	21.90
	DFT-s-OFDM QPSK	1	1	20.55	20.48	20.50	21.90
		1	76	20.78	20.61	20.68	21.90
		36	18	20.61	20.57	20.57	21.90
		75	0	20.62	20.57	20.60	21.90
	DFT-s-OFDM 16QAM	1	1	20.29	20.22	20.27	21.90
		1	76	20.52	20.43	20.45	21.90

		36	18	20.67	20.52	20.57	21.90
	DFT-s-OFDM 64QAM	1	1	20.47	20.33	20.40	21.90
		1	76	20.64	20.55	20.56	21.90
		36	18	20.67	20.60	20.62	21.90
	DFT-s-OFDM 256QAM	1	1	20.62	20.41	20.51	21.90
		1	76	20.68	20.50	20.60	21.90
		36	18	20.69	20.57	20.59	21.90
	CP-OFDM QPSK	1	1	20.48	20.29	20.34	21.90
	CP-OFDM 16QAM	1	1	20.81	20.65	20.72	21.90
	CP-OFDM 64QAM	1	1	20.84	20.75	20.76	21.90
	CP-OFDM 256QAM	1	1	18.73	18.66	18.68	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	20.52	20.43	20.43	21.90
		1	104	20.65	20.54	20.57	21.90
		50	25	20.55	20.40	20.48	21.90
		100	0	20.58	20.43	20.47	21.90
	DFT-s-OFDM QPSK	1	1	20.48	20.35	20.38	21.90
		1	104	20.70	20.51	20.56	21.90
		50	25	20.56	20.47	20.46	21.90
		100	0	20.57	20.47	20.50	21.90
	DFT-s-OFDM 16QAM	1	1	20.24	20.15	20.18	21.90
		1	104	20.44	20.34	20.36	21.90
		50	25	20.59	20.42	20.48	21.90
	DFT-s-OFDM 64QAM	1	1	20.38	20.21	20.29	21.90
		1	104	20.56	20.41	20.45	21.90
		50	25	20.60	20.47	20.50	21.90
	DFT-s-OFDM 256QAM	1	1	20.52	20.35	20.41	21.90
		1	104	20.59	20.47	20.51	21.90
		50	25	20.65	20.48	20.50	21.90
	CP-OFDM QPSK	1	1	20.40	20.19	20.29	21.90
	CP-OFDM 16QAM	1	1	20.72	20.53	20.61	21.90
	CP-OFDM 64QAM	1	1	20.76	20.61	20.65	21.90
	CP-OFDM 256QAM	1	1	18.66	18.53	18.56	20.20

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	20.54	20.44	20.46	21.90
		1	131	20.68	20.59	20.61	21.90
		64	32	20.57	20.44	20.51	21.90
		128	0	20.61	20.48	20.51	21.90
	DFT-s-OFDM QPSK	1	1	20.51	20.40	20.42	21.90
		1	131	20.72	20.55	20.61	21.90
		64	32	20.60	20.49	20.50	21.90
		128	0	20.61	20.50	20.52	21.90
	DFT-s-OFDM 16QAM	1	1	20.28	20.19	20.21	21.90
		1	131	20.47	20.36	20.39	21.90
		64	32	20.62	20.47	20.52	21.90
	DFT-s-OFDM 64QAM	1	1	20.40	20.25	20.32	21.90
		1	131	20.59	20.46	20.49	21.90
		64	32	20.63	20.52	20.54	21.90
	DFT-s-OFDM 256QAM	1	1	20.54	20.34	20.43	21.90
		1	131	20.62	20.47	20.54	21.90
		64	32	20.64	20.50	20.53	21.90
	CP-OFDM QPSK	1	1	20.43	20.24	20.29	21.90
	CP-OFDM 16QAM	1	1	20.74	20.57	20.64	21.90
	CP-OFDM 64QAM	1	1	20.79	20.66	20.69	21.90
	CP-OFDM 256QAM	1	1	18.69	18.58	18.60	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	20.58	20.49	20.50	21.90
		1	160	20.68	20.62	20.62	21.90
		81	40	20.60	20.46	20.55	21.90
		162	0	20.64	20.53	20.55	21.90
	DFT-s-OFDM QPSK	1	1	20.52	20.43	20.46	21.90
		1	160	20.75	20.58	20.64	21.90
		81	40	20.59	20.53	20.52	21.90
		162	0	20.60	20.55	20.58	21.90
	DFT-s-OFDM 16QAM	1	1	20.27	20.19	20.25	21.90
		1	160	20.50	20.39	20.42	21.90
		81	40	20.64	20.50	20.54	21.90
	DFT-s-OFDM 64QAM	1	1	20.44	20.28	20.36	21.90
		1	160	20.62	20.51	20.53	21.90
		81	40	20.64	20.55	20.58	21.90

	DFT-s-OFDM 256QAM	1	1	20.57	20.39	20.49	21.90
		1	160	20.66	20.47	20.58	21.90
		81	40	20.70	20.56	20.60	21.90
	CP-OFDM QPSK	1	1	20.47	20.31	20.35	21.90
	CP-OFDM 16QAM	1	1	20.79	20.62	20.71	21.90
	CP-OFDM 64QAM	1	1	20.82	20.71	20.73	21.90
	CP-OFDM 256QAM	1	1	18.70	18.61	18.64	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	20.53	20.40	20.44	21.90
		1	187	20.66	20.58	20.58	21.90
		92	45	20.54	20.39	20.47	21.90
		180	0	20.59	20.44	20.48	21.90
	DFT-s-OFDM QPSK	1	1	20.48	20.35	20.38	21.90
		1	187	20.69	20.52	20.57	21.90
		92	45	20.58	20.45	20.45	21.90
		180	0	20.59	20.48	20.50	21.90
	DFT-s-OFDM 16QAM	1	1	20.26	20.16	20.19	21.90
		1	187	20.45	20.32	20.36	21.90
		92	46	20.59	20.45	20.49	21.90
	DFT-s-OFDM 64QAM	1	1	20.37	20.20	20.28	21.90
		1	187	20.57	20.42	20.46	21.90
		92	46	20.60	20.47	20.50	21.90
	DFT-s-OFDM 256QAM	1	1	20.49	20.32	20.41	21.90
		1	187	20.60	20.44	20.52	21.90
		92	46	20.65	20.49	20.54	21.90
	CP-OFDM QPSK	1	1	20.42	20.26	20.30	21.90
	CP-OFDM 16QAM	1	1	20.72	20.54	20.63	21.90
	CP-OFDM 64QAM	1	1	20.77	20.62	20.66	21.90
	CP-OFDM 256QAM	1	1	18.66	18.53	18.56	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	20.55	20.45	20.47	21.90
		1	215	20.67	20.58	20.60	21.90
		108	54	20.58	20.45	20.52	21.90

		216	0	20.61	20.48	20.51	21.90
	DFT-s-OFDM QPSK	1	1	20.50	20.39	20.43	21.90
		1	215	20.72	20.53	20.60	21.90
		108	54	20.56	20.48	20.48	21.90
		216	0	20.57	20.51	20.53	21.90
	DFT-s-OFDM 16QAM	1	1	20.24	20.17	20.21	21.90
		1	215	20.47	20.36	20.40	21.90
		108	54	20.61	20.46	20.51	21.90
	DFT-s-OFDM 64QAM	1	1	20.41	20.26	20.33	21.90
		1	215	20.59	20.46	20.49	21.90
		108	54	20.62	20.51	20.55	21.90
	DFT-s-OFDM 256QAM	1	1	20.55	20.35	20.44	21.90
		1	215	20.62	20.45	20.54	21.90
		108	54	20.64	20.50	20.54	21.90
	CP-OFDM QPSK	1	1	20.42	20.23	20.28	21.90
	CP-OFDM 16QAM	1	1	20.75	20.58	20.65	21.90
	CP-OFDM 64QAM	1	1	20.79	20.66	20.69	21.90
	CP-OFDM 256QAM	1	1	18.68	18.57	18.61	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	20.50	20.36	20.41	21.90
		1	243	20.65	20.54	20.56	21.90
		120	60	20.52	20.38	20.44	21.90
		243	0	20.56	20.39	20.44	21.90
	DFT-s-OFDM QPSK	1	1	20.46	20.31	20.35	21.90
		1	243	20.66	20.47	20.53	21.90
		120	60	20.55	20.40	20.41	21.90
		243	0	20.56	20.44	20.45	21.90
	DFT-s-OFDM 16QAM	1	1	20.23	20.14	20.15	21.90
		1	243	20.42	20.29	20.34	21.90
		120	60	20.56	20.41	20.46	21.90
	DFT-s-OFDM 64QAM	1	1	20.34	20.18	20.25	21.90
		1	243	20.54	20.37	20.42	21.90
		120	60	20.58	20.43	20.47	21.90
	DFT-s-OFDM 256QAM	1	1	20.47	20.28	20.36	21.90
		1	243	20.56	20.42	20.48	21.90
		120	60	20.59	20.43	20.48	21.90
	CP-OFDM QPSK	1	1	20.37	20.18	20.23	21.90

	CP-OFDM 16QAM	1	1	20.68	20.50	20.57	21.90
	CP-OFDM 64QAM	1	1	20.74	20.57	20.62	21.90
	CP-OFDM 256QAM	1	1	18.64	18.49	18.53	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	20.30	/	21.90
		1	271	/	20.50	/	21.90
		135	67	/	20.30	/	21.90
		270	0	/	20.32	/	21.90
	DFT-s-OFDM QPSK	1	1	/	20.23	/	21.90
		1	271	/	20.40	/	21.90
		135	67	/	20.33	/	21.90
		270	0	/	20.36	/	21.90
	DFT-s-OFDM 16QAM	1	1	/	20.08	/	21.90
		1	271	/	20.23	/	21.90
		135	67	/	20.36	/	21.90
	DFT-s-OFDM 64QAM	1	1	/	20.10	/	21.90
		1	271	/	20.30	/	21.90
		135	67	/	20.35	/	21.90
	DFT-s-OFDM 256QAM	1	1	/	20.20	/	21.90
		1	271	/	20.36	/	21.90
		135	67	/	20.37	/	21.90
	CP-OFDM QPSK	1	1	/	20.13	/	21.90
	CP-OFDM 16QAM	1	1	/	20.42	/	21.90
	CP-OFDM 64QAM	1	1	/	20.50	/	21.90
	CP-OFDM 256QAM	1	1	/	18.41	/	20.20

NR n78 PC2							
Hotspot on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	14.94	14.99	14.81	16.30
		1	49	14.99	15.02	14.97	16.30
		25	12	15.13	15.06	15.04	16.30
		50	0	15.12	15.15	15.02	16.30
	DFT-s-OFDM	1	1	15.03	15.07	14.97	16.30

	QPSK	1	49	15.25	15.21	15.14	16.30
		25	12	15.04	15.18	15.06	16.30
		50	0	15.04	15.12	15.09	16.30
	DFT-s-OFDM 16QAM	1	1	14.71	14.71	14.75	16.30
		1	49	15.06	15.06	14.94	16.30
		25	12	15.11	15.05	15.00	16.30
	DFT-s-OFDM 64QAM	1	1	14.98	14.90	14.84	16.30
		1	49	15.08	15.11	14.98	16.30
		25	12	15.08	15.12	15.02	16.30
	DFT-s-OFDM 256QAM	1	1	15.04	14.99	14.92	16.30
		1	49	15.16	15.07	15.07	16.30
		25	12	15.13	15.09	14.98	16.30
	CP-OFDM QPSK	1	1	14.86	14.82	14.81	16.30
	CP-OFDM 16QAM	1	1	15.27	15.20	15.15	16.30
	CP-OFDM 64QAM	1	1	15.30	15.33	15.20	16.30
	CP-OFDM 256QAM	1	1	14.64	14.68	14.58	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	14.96	15.00	14.84	16.30
		1	76	15.02	15.07	15.01	16.30
		36	18	15.15	15.10	15.07	16.30
		75	0	15.15	15.20	15.06	16.30
	DFT-s-OFDM QPSK	1	1	15.06	15.12	15.01	16.30
		1	76	15.27	15.25	15.19	16.30
		36	18	15.08	15.20	15.10	16.30
		75	0	15.08	15.15	15.11	16.30
	DFT-s-OFDM 16QAM	1	1	14.75	14.75	14.78	16.30
		1	76	15.09	15.08	14.97	16.30
		36	18	15.14	15.10	15.04	16.30
	DFT-s-OFDM 64QAM	1	1	15.00	14.94	14.87	16.30
		1	76	15.11	15.16	15.02	16.30
		36	18	15.11	15.17	15.06	16.30
	DFT-s-OFDM 256QAM	1	1	15.06	14.98	14.94	16.30
		1	76	15.19	15.07	15.10	16.30
		36	18	15.12	15.11	15.01	16.30
	CP-OFDM QPSK	1	1	14.89	14.87	14.81	16.30
	CP-OFDM 16QAM	1	1	15.29	15.24	15.18	16.30

	CP-OFDM 64QAM	1	1	15.33	15.38	15.24	16.30
	CP-OFDM 256QAM	1	1	14.67	14.73	14.62	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	14.95	14.96	14.82	16.30
		1	104	15.00	15.06	14.98	16.30
		50	25	15.12	15.05	15.03	16.30
		100	0	15.13	15.16	15.03	16.30
	DFT-s-OFDM QPSK	1	1	15.03	15.07	14.97	16.30
		1	104	15.24	15.22	15.15	16.30
		50	25	15.06	15.16	15.05	16.30
		100	0	15.06	15.13	15.09	16.30
	DFT-s-OFDM 16QAM	1	1	14.73	14.72	14.76	16.30
		1	104	15.07	15.04	14.94	16.30
		50	25	15.11	15.08	15.01	16.30
		100	0	15.11	15.08	15.01	16.30
	DFT-s-OFDM 64QAM	1	1	14.97	14.89	14.83	16.30
		1	104	15.09	15.12	14.99	16.30
		50	25	15.08	15.12	15.02	16.30
		100	0	15.08	15.12	15.02	16.30
	DFT-s-OFDM 256QAM	1	1	15.01	14.96	14.92	16.30
		1	104	15.17	15.04	15.08	16.30
		50	25	15.13	15.10	15.02	16.30
		100	0	15.13	15.10	15.02	16.30
	CP-OFDM QPSK	1	1	14.88	14.89	14.82	16.30
	CP-OFDM 16QAM	1	1	15.27	15.21	15.17	16.30
	CP-OFDM 64QAM	1	1	15.31	15.34	15.21	16.30
	CP-OFDM 256QAM	1	1	14.64	14.68	14.58	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	14.92	14.92	14.79	16.30
		1	131	14.99	15.02	14.96	16.30
		64	32	15.10	15.04	15.00	16.30
		128	0	15.10	15.11	14.99	16.30
	DFT-s-OFDM QPSK	1	1	15.01	15.03	14.94	16.30
		1	131	15.21	15.17	15.11	16.30
		64	32	15.03	15.11	15.01	16.30
		128	0	15.03	15.09	15.04	16.30
	DFT-s-OFDM 16QAM	1	1	14.70	14.70	14.72	16.30
		1	131	15.04	15.01	14.92	16.30

		64	32	15.08	15.04	14.98	16.30
	DFT-s-OFDM 64QAM	1	1	14.94	14.87	14.80	16.30
		1	131	15.06	15.07	14.95	16.30
		64	32	15.06	15.08	14.99	16.30
	DFT-s-OFDM 256QAM	1	1	14.99	14.92	14.87	16.30
		1	131	15.13	15.02	15.04	16.30
		64	32	15.07	15.04	14.96	16.30
	CP-OFDM QPSK	1	1	14.83	14.81	14.75	16.30
	CP-OFDM 16QAM	1	1	15.23	15.17	15.11	16.30
	CP-OFDM 64QAM	1	1	15.28	15.29	15.17	16.30
	CP-OFDM 256QAM	1	1	14.62	14.64	14.55	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	14.89	14.90	14.75	16.30
		1	160	14.97	14.98	14.93	16.30
		81	40	15.07	14.99	14.96	16.30
		162	0	15.07	15.06	14.95	16.30
	DFT-s-OFDM QPSK	1	1	14.99	14.99	14.89	16.30
		1	160	15.19	15.15	15.07	16.30
		81	40	15.03	15.10	14.99	16.30
		162	0	15.03	15.05	15.01	16.30
	DFT-s-OFDM 16QAM	1	1	14.70	14.68	14.69	16.30
		1	160	15.01	14.99	14.88	16.30
		81	40	15.06	15.00	14.95	16.30
	DFT-s-OFDM 64QAM	1	1	14.91	14.82	14.76	16.30
		1	160	15.03	15.02	14.91	16.30
		81	40	15.04	15.04	14.94	16.30
	DFT-s-OFDM 256QAM	1	1	14.96	14.92	14.84	16.30
		1	160	15.10	15.04	15.01	16.30
		81	40	15.08	15.02	14.92	16.30
	CP-OFDM QPSK	1	1	14.81	14.77	14.76	16.30
	CP-OFDM 16QAM	1	1	15.20	15.12	15.07	16.30
	CP-OFDM 64QAM	1	1	15.25	15.24	15.13	16.30
	CP-OFDM 256QAM	1	1	14.60	14.60	14.50	16.30

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	14.91	14.91	14.78	16.30
		1	187	15.00	15.03	14.97	16.30
		92	45	15.09	15.03	14.99	16.30
		180	0	15.10	15.11	14.99	16.30
	DFT-s-OFDM QPSK	1	1	15.02	15.04	14.93	16.30
		1	187	15.21	15.19	15.12	16.30
		92	45	15.07	15.12	15.03	16.30
		180	0	15.07	15.08	15.03	16.30
	DFT-s-OFDM 16QAM	1	1	14.74	14.72	14.72	16.30
		1	187	15.04	15.01	14.91	16.30
		92	46	15.09	15.05	14.99	16.30
	DFT-s-OFDM 64QAM	1	1	14.93	14.86	14.79	16.30
		1	187	15.06	15.07	14.95	16.30
		92	46	15.07	15.09	14.98	16.30
	DFT-s-OFDM 256QAM	1	1	14.98	14.91	14.86	16.30
		1	187	15.13	15.04	15.04	16.30
		92	46	15.07	15.04	14.95	16.30
	CP-OFDM QPSK	1	1	14.84	14.82	14.76	16.30
	CP-OFDM 16QAM	1	1	15.22	15.16	15.10	16.30
	CP-OFDM 64QAM	1	1	15.28	15.29	15.17	16.30
	CP-OFDM 256QAM	1	1	14.63	14.65	14.54	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	14.90	14.87	14.76	16.30
		1	215	14.98	15.02	14.94	16.30
		108	54	15.06	14.98	14.95	16.30
		216	0	15.08	15.07	14.96	16.30
	DFT-s-OFDM QPSK	1	1	14.99	14.99	14.89	16.30
		1	215	15.18	15.16	15.08	16.30
		108	54	15.05	15.08	14.98	16.30
		216	0	15.05	15.06	15.01	16.30
	DFT-s-OFDM 16QAM	1	1	14.72	14.69	14.70	16.30
		1	215	15.02	14.97	14.88	16.30
		108	54	15.06	15.03	14.96	16.30
	DFT-s-OFDM 64QAM	1	1	14.90	14.81	14.75	16.30
		1	215	15.04	15.03	14.92	16.30
		108	54	15.04	15.04	14.94	16.30

	DFT-s-OFDM 256QAM	1	1	14.93	14.89	14.84	16.30
		1	215	15.11	15.01	15.02	16.30
		108	54	15.08	15.03	14.96	16.30
	CP-OFDM QPSK	1	1	14.83	14.84	14.77	16.30
	CP-OFDM 16QAM	1	1	15.20	15.13	15.09	16.30
	CP-OFDM 64QAM	1	1	15.26	15.25	15.14	16.30
	CP-OFDM 256QAM	1	1	14.60	14.60	14.50	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	14.87	14.83	14.73	16.30
		1	243	14.97	14.98	14.92	16.30
		120	60	15.04	14.97	14.92	16.30
		243	0	15.05	15.02	14.92	16.30
	DFT-s-OFDM QPSK	1	1	14.97	14.95	14.86	16.30
		1	243	15.15	15.11	15.04	16.30
		120	60	15.02	15.03	14.94	16.30
		243	0	15.02	15.02	14.96	16.30
	DFT-s-OFDM 16QAM	1	1	14.69	14.67	14.66	16.30
		1	243	14.99	14.94	14.86	16.30
		120	60	15.03	14.99	14.93	16.30
	DFT-s-OFDM 64QAM	1	1	14.87	14.79	14.72	16.30
		1	243	15.01	14.98	14.88	16.30
		120	60	15.02	15.00	14.91	16.30
	DFT-s-OFDM 256QAM	1	1	14.91	14.85	14.79	16.30
		1	243	15.07	14.99	14.98	16.30
		120	60	15.02	14.97	14.90	16.30
	CP-OFDM QPSK	1	1	14.78	14.76	14.70	16.30
	CP-OFDM 16QAM	1	1	15.16	15.09	15.03	16.30
	CP-OFDM 64QAM	1	1	15.23	15.20	15.10	16.30
	CP-OFDM 256QAM	1	1	14.58	14.56	14.47	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	14.64	/	16.30
		1	271	/	14.86	/	16.30
		135	67	/	14.81	/	16.30

		270	0	/	14.81	/	16.30
	DFT-s-OFDM QPSK	1	1	/	14.75	/	16.30
		1	271	/	14.93	/	16.30
		135	67	/	14.83	/	16.30
		270	0	/	14.83	/	16.30
	DFT-s-OFDM 16QAM	1	1	/	14.56	/	16.30
		1	271	/	14.78	/	16.30
		135	67	/	14.85	/	16.30
	DFT-s-OFDM 64QAM	1	1	/	14.61	/	16.30
		1	271	/	14.77	/	16.30
		135	67	/	14.80	/	16.30
	DFT-s-OFDM 256QAM	1	1	/	14.66	/	16.30
		1	271	/	14.88	/	16.30
		135	67	/	14.78	/	16.30
	CP-OFDM QPSK	1	1	/	14.58	/	16.30
	CP-OFDM 16QAM	1	1	/	14.89	/	16.30
	CP-OFDM 64QAM	1	1	/	14.99	/	16.30
	CP-OFDM 256QAM	1	1	/	14.36	/	16.30

NR n78 PC2							
Receiver on-Div Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	24.97	24.92	24.82	26.00
		1	49	24.70	24.68	24.68	26.00
		25	12	24.83	24.77	24.76	26.00
		50	0	24.55	24.50	24.44	25.50
	DFT-s-OFDM QPSK	1	1	24.97	24.93	24.89	26.00
		1	49	24.94	24.88	24.85	26.00
		25	12	24.92	24.91	24.83	26.00
		50	0	23.99	23.98	23.96	25.00
	DFT-s-OFDM 16QAM	1	1	24.21	24.20	24.22	25.00
		1	49	24.30	24.25	24.19	25.00
		25	12	23.97	23.92	23.91	25.00
	DFT-s-OFDM 64QAM	1	1	22.63	22.56	22.53	23.50
		1	49	22.53	22.48	22.42	23.50
		25	12	22.55	22.51	22.47	23.50
	DFT-s-OFDM 256QAM	1	1	20.60	20.52	20.46	21.50
		1	49	20.50	20.44	20.42	21.50

		25	12	20.46	20.41	20.35	21.50
	CP-OFDM QPSK	1	1	23.47	23.42	23.41	24.50
	CP-OFDM 16QAM	1	1	22.92	22.85	22.82	24.00
	CP-OFDM 64QAM	1	1	21.45	21.40	21.34	22.50
	CP-OFDM 256QAM	1	1	17.75	17.71	17.67	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	24.94	24.90	24.78	26.00
		1	76	24.68	24.64	24.65	26.00
		36	18	24.80	24.72	24.72	26.00
		75	0	24.52	24.45	24.40	25.50
	DFT-s-OFDM QPSK	1	1	24.95	24.89	24.84	26.00
		1	76	24.92	24.86	24.81	26.00
		36	18	24.92	24.90	24.81	26.00
		75	0	23.99	23.94	23.93	25.00
	DFT-s-OFDM 16QAM	1	1	24.21	24.18	24.19	25.00
		1	76	24.27	24.23	24.15	25.00
		36	18	23.95	23.88	23.88	25.00
	DFT-s-OFDM 64QAM	1	1	22.60	22.51	22.49	23.50
		1	76	22.50	22.43	22.38	23.50
		36	18	22.53	22.47	22.42	23.50
	DFT-s-OFDM 256QAM	1	1	20.57	20.52	20.43	21.50
		1	76	20.47	20.46	20.39	21.50
		36	18	20.47	20.39	20.31	21.50
	CP-OFDM QPSK	1	1	23.45	23.38	23.42	24.50
	CP-OFDM 16QAM	1	1	22.89	22.80	22.78	24.00
	CP-OFDM 64QAM	1	1	21.42	21.35	21.30	22.50
	CP-OFDM 256QAM	1	1	17.73	17.67	17.62	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	24.96	24.91	24.81	26.00
		1	104	24.71	24.69	24.69	26.00
		50	25	24.82	24.76	24.75	26.00
		100	0	24.55	24.50	24.44	25.50
	DFT-s-OFDM	1	1	24.98	24.94	24.88	26.00

	QPSK	1	104	24.94	24.90	24.86	26.00
		50	25	24.96	24.92	24.85	26.00
		100	0	24.03	23.97	23.95	25.00
	DFT-s-OFDM 16QAM	1	1	24.25	24.22	24.22	25.00
		1	104	24.30	24.25	24.18	25.00
		50	25	23.98	23.93	23.92	25.00
	DFT-s-OFDM 64QAM	1	1	22.62	22.55	22.52	23.50
		1	104	22.53	22.48	22.42	23.50
		50	25	22.56	22.52	22.46	23.50
	DFT-s-OFDM 256QAM	1	1	20.59	20.51	20.45	21.50
		1	104	20.50	20.46	20.42	21.50
		50	25	20.46	20.41	20.34	21.50
	CP-OFDM QPSK	1	1	23.48	23.43	23.42	24.50
	CP-OFDM 16QAM	1	1	22.91	22.84	22.81	24.00
	CP-OFDM 64QAM	1	1	21.45	21.40	21.34	22.50
	CP-OFDM 256QAM	1	1	17.76	17.72	17.66	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	24.99	24.99	24.84	26.00
		1	131	24.70	24.68	24.69	26.00
		64	32	24.86	24.79	24.80	26.00
		128	0	24.57	24.54	24.47	25.50
	DFT-s-OFDM QPSK	1	1	24.99	24.97	24.92	26.00
		1	131	24.98	24.92	24.88	26.00
		64	32	24.93	24.98	24.88	26.00
		128	0	24.00	24.01	24.01	25.00
	DFT-s-OFDM 16QAM	1	1	24.22	24.21	24.25	25.00
		1	131	24.32	24.30	24.21	25.00
		64	32	24.00	23.93	23.93	25.00
	DFT-s-OFDM 64QAM	1	1	22.67	22.59	22.57	23.50
		1	131	22.55	22.52	22.45	23.50
		64	32	22.57	22.55	22.50	23.50
	DFT-s-OFDM 256QAM	1	1	20.65	20.59	20.51	21.50
		1	131	20.53	20.49	20.45	21.50
		64	32	20.52	20.46	20.37	21.50
	CP-OFDM QPSK	1	1	23.50	23.43	23.47	24.50
	CP-OFDM 16QAM	1	1	22.96	22.88	22.86	24.00

	CP-OFDM 64QAM	1	1	21.47	21.44	21.37	22.50
	CP-OFDM 256QAM	1	1	17.77	17.75	17.70	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	25.01	25.00	24.87	26.00
		1	160	24.73	24.73	24.73	26.00
		81	40	24.88	24.83	24.83	26.00
		162	0	24.60	24.59	24.51	25.50
	DFT-s-OFDM QPSK	1	1	25.02	25.02	24.96	26.00
		1	160	25.00	24.96	24.93	26.00
		81	40	24.97	25.00	24.92	26.00
		162	0	24.04	24.04	24.03	25.00
	DFT-s-OFDM 16QAM	1	1	24.26	24.25	24.28	25.00
		1	160	24.35	24.32	24.24	25.00
		81	40	24.03	23.98	23.97	25.00
	DFT-s-OFDM 64QAM	1	1	22.69	22.63	22.60	23.50
		1	160	22.58	22.57	22.49	23.50
		81	40	22.60	22.60	22.54	23.50
	DFT-s-OFDM 256QAM	1	1	20.67	20.58	20.53	21.50
		1	160	20.56	20.49	20.48	21.50
		81	40	20.51	20.48	20.40	21.50
	CP-OFDM QPSK	1	1	23.53	23.48	23.47	24.50
	CP-OFDM 16QAM	1	1	22.98	22.92	22.89	24.00
	CP-OFDM 64QAM	1	1	21.50	21.49	21.41	22.50
	CP-OFDM 256QAM	1	1	17.80	17.80	17.66	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	24.95	24.87	24.79	26.00
		1	187	24.69	24.68	24.66	26.00
		92	45	24.79	24.71	24.71	26.00
		180	0	24.53	24.46	24.41	25.50
	DFT-s-OFDM QPSK	1	1	24.95	24.89	24.84	26.00
		1	187	24.91	24.87	24.82	26.00
		92	45	24.94	24.88	24.80	26.00
		180	0	24.01	23.95	23.93	25.00
	DFT-s-OFDM 16QAM	1	1	24.23	24.19	24.20	25.00
		1	187	24.28	24.21	24.15	25.00

		92	46	23.95	23.91	23.89	25.00
	DFT-s-OFDM 64QAM	1	1	22.59	22.50	22.48	23.50
		1	187	22.51	22.44	22.39	23.50
		92	46	22.53	22.47	22.42	23.50
	DFT-s-OFDM 256QAM	1	1	20.54	20.49	20.43	21.50
		1	187	20.48	20.43	20.40	21.50
		92	46	20.47	20.40	20.35	21.50
	CP-OFDM QPSK	1	1	23.47	23.45	23.43	24.50
	CP-OFDM 16QAM	1	1	22.89	22.81	22.80	24.00
	CP-OFDM 64QAM	1	1	21.43	21.36	21.31	22.50
	CP-OFDM 256QAM	1	1	17.73	17.52	17.62	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	25.00	24.96	24.85	26.00
		1	215	24.71	24.72	24.70	26.00
		108	54	24.85	24.78	24.79	26.00
		216	0	24.58	24.55	24.48	25.50
	DFT-s-OFDM QPSK	1	1	24.99	24.97	24.92	26.00
		1	215	24.97	24.93	24.89	26.00
		108	54	24.95	24.96	24.87	26.00
		216	0	24.02	24.02	24.01	25.00
	DFT-s-OFDM 16QAM	1	1	24.24	24.22	24.26	25.00
		1	215	24.33	24.28	24.21	25.00
		108	54	24.00	23.96	23.94	25.00
	DFT-s-OFDM 64QAM	1	1	22.66	22.58	22.56	23.50
		1	215	22.56	22.53	22.46	23.50
		108	54	22.57	22.55	22.50	23.50
	DFT-s-OFDM 256QAM	1	1	20.62	20.56	20.51	21.50
		1	215	20.54	20.46	20.46	21.50
		108	54	20.52	20.47	20.41	21.50
	CP-OFDM QPSK	1	1	23.52	23.50	23.48	24.50
	CP-OFDM 16QAM	1	1	22.96	22.89	22.88	24.00
	CP-OFDM 64QAM	1	1	21.48	21.45	21.38	22.50
	CP-OFDM 256QAM	1	1	17.77	17.75	17.70	19.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	24.92	24.83	24.76	26.00
		1	243	24.68	24.64	24.64	26.00
		120	60	24.77	24.70	24.68	26.00
		243	0	24.50	24.41	24.37	25.50
	DFT-s-OFDM QPSK	1	1	24.93	24.85	24.81	26.00
		1	243	24.88	24.82	24.78	26.00
		120	60	24.91	24.83	24.76	26.00
		243	0	23.98	23.91	23.88	25.00
	DFT-s-OFDM 16QAM	1	1	24.20	24.17	24.16	25.00
		1	243	24.25	24.18	24.13	25.00
		120	60	23.92	23.87	23.86	25.00
	DFT-s-OFDM 64QAM	1	1	22.56	22.48	22.45	23.50
		1	243	22.48	22.39	22.35	23.50
		120	60	22.51	22.43	22.39	23.50
	DFT-s-OFDM 256QAM	1	1	20.52	20.45	20.38	21.50
		1	243	20.44	20.41	20.36	21.50
		120	60	20.41	20.34	20.29	21.50
	CP-OFDM QPSK	1	1	23.42	23.37	23.36	24.50
	CP-OFDM 16QAM	1	1	22.85	22.77	22.74	24.00
	CP-OFDM 64QAM	1	1	21.40	21.31	21.27	22.50
	CP-OFDM 256QAM	1	1	17.71	17.63	17.59	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	24.70	/	26.00
		1	271	/	24.60	/	26.00
		135	67	/	24.60	/	26.00
		270	0	/	24.30	/	25.50
	DFT-s-OFDM QPSK	1	1	/	24.73	/	26.00
		1	271	/	24.71	/	26.00
		135	67	/	24.69	/	26.00
		270	0	/	23.80	/	25.00
	DFT-s-OFDM 16QAM	1	1	/	24.10	/	25.00
		1	271	/	24.07	/	25.00
		135	67	/	23.81	/	25.00
	DFT-s-OFDM 64QAM	1	1	/	22.37	/	23.50
		1	271	/	22.28	/	23.50
		135	67	/	22.31	/	23.50

	DFT-s-OFDM 256QAM	1	1	/	20.30	/	21.50
		1	271	/	20.30	/	21.50
		135	67	/	20.23	/	21.50
	CP-OFDM QPSK	1	1	/	23.31	/	24.50
	CP-OFDM 16QAM	1	1	/	22.66	/	24.00
	CP-OFDM 64QAM	1	1	/	21.20	/	22.50
	CP-OFDM 256QAM	1	1	/	17.51	/	19.50

NR n78 PC2							
Receiver off-Div Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	19.86	19.89	19.82	21.10
		1	49	19.82	19.87	19.83	21.10
		25	12	19.89	19.86	19.84	21.10
		50	0	19.83	19.87	19.81	21.10
	DFT-s-OFDM QPSK	1	1	19.90	19.94	19.88	21.10
		1	49	19.96	19.94	19.91	21.10
		25	12	19.80	19.88	19.83	21.10
		50	0	19.77	19.83	19.82	21.10
	DFT-s-OFDM 16QAM	1	1	20.08	20.08	20.11	21.10
		1	49	20.09	20.09	20.03	21.10
		25	12	19.85	19.83	19.80	21.10
	DFT-s-OFDM 64QAM	1	1	19.96	19.92	19.88	21.10
		1	49	19.89	19.93	19.87	21.10
		25	12	19.83	19.87	19.81	21.10
	DFT-s-OFDM 256QAM	1	1	19.97	19.93	19.92	21.10
		1	49	19.89	19.81	19.84	21.10
		25	12	19.87	19.83	19.82	21.10
	CP-OFDM QPSK	1	1	19.98	19.98	19.99	21.10
	CP-OFDM 16QAM	1	1	19.85	19.82	19.82	21.10
	CP-OFDM 64QAM	1	1	19.80	19.84	19.78	21.10
	CP-OFDM 256QAM	1	1	17.71	17.75	17.69	19.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	19.83	19.85	19.79	21.10
		1	76	19.81	19.83	19.81	21.10
		36	18	19.87	19.85	19.81	21.10
		75	0	19.80	19.82	19.77	21.10
	DFT-s-OFDM QPSK	1	1	19.88	19.90	19.85	21.10
		1	76	19.93	19.89	19.87	21.10
		36	18	19.77	19.83	19.79	21.10
		75	0	19.74	19.79	19.77	21.10
	DFT-s-OFDM 16QAM	1	1	20.05	20.06	20.07	21.10
		1	76	20.06	20.06	20.01	21.10
		36	18	19.82	19.79	19.77	21.10
	DFT-s-OFDM 64QAM	1	1	19.93	19.90	19.85	21.10
		1	76	19.86	19.88	19.83	21.10
		36	18	19.81	19.83	19.78	21.10
	DFT-s-OFDM 256QAM	1	1	19.95	19.89	19.87	21.10
		1	76	19.85	19.79	19.80	21.10
		36	18	19.81	19.77	19.76	21.10
	CP-OFDM QPSK	1	1	19.93	19.90	19.92	21.10
	CP-OFDM 16QAM	1	1	19.81	19.78	19.76	21.10
	CP-OFDM 64QAM	1	1	19.77	19.79	19.74	21.10
	CP-OFDM 256QAM	1	1	17.69	17.71	17.66	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	19.80	19.83	19.75	21.10
		1	104	19.79	19.79	19.78	21.10
		50	25	19.84	19.80	19.77	21.10
		100	0	19.77	19.77	19.73	21.10
	DFT-s-OFDM QPSK	1	1	19.86	19.86	19.80	21.10
		1	104	19.91	19.87	19.83	21.10
		50	25	19.77	19.82	19.77	21.10
		100	0	19.74	19.75	19.74	21.10
	DFT-s-OFDM 16QAM	1	1	20.05	20.04	20.04	21.10
		1	104	20.03	20.04	19.97	21.10
		50	25	19.80	19.75	19.74	21.10
	DFT-s-OFDM 64QAM	1	1	19.90	19.85	19.81	21.10
		1	104	19.83	19.83	19.79	21.10
		50	25	19.79	19.79	19.73	21.10

	DFT-s-OFDM 256QAM	1	1	19.92	19.89	19.84	21.10
		1	104	19.82	19.81	19.77	21.10
		50	25	19.82	19.75	19.72	21.10
	CP-OFDM QPSK	1	1	19.91	19.86	19.93	21.10
	CP-OFDM 16QAM	1	1	19.78	19.73	19.72	21.10
	CP-OFDM 64QAM	1	1	19.74	19.74	19.70	21.10
	CP-OFDM 256QAM	1	1	17.67	17.67	17.61	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	19.82	19.84	19.78	21.10
		1	131	19.82	19.84	19.82	21.10
		64	32	19.86	19.84	19.80	21.10
		128	0	19.80	19.82	19.77	21.10
	DFT-s-OFDM QPSK	1	1	19.89	19.91	19.84	21.10
		1	131	19.93	19.91	19.88	21.10
		64	32	19.81	19.84	19.81	21.10
		128	0	19.78	19.78	19.76	21.10
	DFT-s-OFDM 16QAM	1	1	20.09	20.08	20.07	21.10
		1	131	20.06	20.06	20.00	21.10
		64	32	19.83	19.80	19.78	21.10
	DFT-s-OFDM 64QAM	1	1	19.92	19.89	19.84	21.10
		1	131	19.86	19.88	19.83	21.10
		64	32	19.82	19.84	19.77	21.10
	DFT-s-OFDM 256QAM	1	1	19.94	19.88	19.86	21.10
		1	131	19.85	19.81	19.80	21.10
		64	32	19.81	19.77	19.75	21.10
	CP-OFDM QPSK	1	1	19.94	19.91	19.93	21.10
	CP-OFDM 16QAM	1	1	19.80	19.77	19.75	21.10
	CP-OFDM 64QAM	1	1	19.77	19.79	19.74	21.10
	CP-OFDM 256QAM	1	1	17.70	17.72	17.65	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	19.87	19.93	19.84	21.10
		1	160	19.84	19.88	19.86	21.10
		81	40	19.92	19.91	19.88	21.10

		162	0	19.85	19.91	19.84	21.10
	DFT-s-OFDM QPSK	1	1	19.93	19.99	19.92	21.10
		1	160	19.99	19.97	19.95	21.10
		81	40	19.82	19.92	19.88	21.10
		162	0	19.79	19.85	19.84	21.10
	DFT-s-OFDM 16QAM	1	1	20.10	20.11	20.13	21.10
		1	160	20.11	20.13	20.06	21.10
		81	40	19.88	19.85	19.83	21.10
	DFT-s-OFDM 64QAM	1	1	19.99	19.97	19.92	21.10
		1	160	19.91	19.97	19.90	21.10
		81	40	19.86	19.92	19.85	21.10
	DFT-s-OFDM 256QAM	1	1	20.02	19.95	19.94	21.10
		1	160	19.91	19.84	19.86	21.10
		81	40	19.86	19.84	19.81	21.10
	CP-OFDM QPSK	1	1	19.99	19.96	19.98	21.10
	CP-OFDM 16QAM	1	1	19.87	19.85	19.83	21.10
	CP-OFDM 64QAM	1	1	19.82	19.88	19.81	21.10
	CP-OFDM 256QAM	1	1	17.74	17.80	17.73	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	19.85	19.92	19.81	21.10
		1	187	19.81	19.83	19.82	21.10
		92	45	19.90	19.87	19.85	21.10
		180	0	19.82	19.86	19.80	21.10
	DFT-s-OFDM QPSK	1	1	19.90	19.94	19.88	21.10
		1	187	19.97	19.93	19.90	21.10
		92	45	19.78	19.90	19.84	21.10
		180	0	19.75	19.82	19.82	21.10
	DFT-s-OFDM 16QAM	1	1	20.06	20.07	20.10	21.10
		1	187	20.08	20.11	20.03	21.10
		92	46	19.85	19.80	19.79	21.10
	DFT-s-OFDM 64QAM	1	1	19.97	19.93	19.89	21.10
		1	187	19.88	19.92	19.86	21.10
		92	46	19.83	19.87	19.81	21.10
	DFT-s-OFDM 256QAM	1	1	20.00	19.96	19.92	21.10
		1	187	19.88	19.84	19.83	21.10
		92	46	19.87	19.82	19.78	21.10
	CP-OFDM QPSK	1	1	19.96	19.91	19.98	21.10

	CP-OFDM 16QAM	1	1	19.85	19.81	19.80	21.10
	CP-OFDM 64QAM	1	1	19.79	19.83	19.77	21.10
	CP-OFDM 256QAM	1	1	17.71	17.75	17.69	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	19.81	19.80	19.76	21.10
		1	215	19.80	19.83	19.79	21.10
		108	54	19.83	19.79	19.76	21.10
		216	0	19.78	19.78	19.74	21.10
	DFT-s-OFDM QPSK	1	1	19.86	19.86	19.80	21.10
		1	215	19.90	19.88	19.84	21.10
		108	54	19.79	19.80	19.76	21.10
		216	0	19.76	19.76	19.74	21.10
	DFT-s-OFDM 16QAM	1	1	20.07	20.05	20.05	21.10
		1	215	20.04	20.02	19.97	21.10
		108	54	19.80	19.78	19.75	21.10
	DFT-s-OFDM 64QAM	1	1	19.89	19.84	19.80	21.10
		1	215	19.84	19.84	19.80	21.10
		108	54	19.79	19.79	19.73	21.10
	DFT-s-OFDM 256QAM	1	1	19.89	19.86	19.84	21.10
		1	215	19.83	19.78	19.78	21.10
		108	54	19.82	19.76	19.76	21.10
	CP-OFDM QPSK	1	1	19.93	19.93	19.94	21.10
	CP-OFDM 16QAM	1	1	19.78	19.74	19.74	21.10
	CP-OFDM 64QAM	1	1	19.75	19.75	19.71	21.10
	CP-OFDM 256QAM	1	1	17.67	17.67	17.61	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	19.78	19.76	19.73	21.10
		1	243	19.79	19.79	19.77	21.10
		120	60	19.81	19.78	19.73	21.10
		243	0	19.75	19.73	19.70	21.10
	DFT-s-OFDM QPSK	1	1	19.84	19.82	19.77	21.10
		1	243	19.87	19.83	19.80	21.10
		120	60	19.76	19.75	19.72	21.10
		243	0	19.73	19.72	19.69	21.10

	DFT-s-OFDM 16QAM	1	1	20.04	20.03	20.01	21.10
		1	243	20.01	19.99	19.95	21.10
		120	60	19.77	19.74	19.72	21.10
	DFT-s-OFDM 64QAM	1	1	19.86	19.82	19.77	21.10
		1	243	19.81	19.79	19.76	21.10
		120	60	19.77	19.75	19.70	21.10
	DFT-s-OFDM 256QAM	1	1	19.87	19.82	19.79	21.10
		1	243	19.79	19.76	19.74	21.10
		120	60	19.76	19.70	19.70	21.10
	CP-OFDM QPSK	1	1	19.88	19.85	19.87	21.10
	CP-OFDM 16QAM	1	1	19.74	19.70	19.68	21.10
	CP-OFDM 64QAM	1	1	19.72	19.70	19.67	21.10
	CP-OFDM 256QAM	1	1	17.65	17.63	17.58	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	19.70	/	21.10
		1	271	/	19.75	/	21.10
		135	67	/	19.70	/	21.10
		270	0	/	19.66	/	21.10
	DFT-s-OFDM QPSK	1	1	/	19.74	/	21.10
		1	271	/	19.76	/	21.10
		135	67	/	19.68	/	21.10
		270	0	/	19.64	/	21.10
	DFT-s-OFDM 16QAM	1	1	/	19.97	/	21.10
		1	271	/	19.93	/	21.10
		135	67	/	19.69	/	21.10
	DFT-s-OFDM 64QAM	1	1	/	19.74	/	21.10
		1	271	/	19.72	/	21.10
		135	67	/	19.67	/	21.10
	DFT-s-OFDM 256QAM	1	1	/	19.74	/	21.10
		1	271	/	19.70	/	21.10
		135	67	/	19.64	/	21.10
	CP-OFDM QPSK	1	1	/	19.80	/	21.10
	CP-OFDM 16QAM	1	1	/	19.62	/	21.10
	CP-OFDM 64QAM	1	1	/	19.63	/	21.10
	CP-OFDM	1	1	/	17.55	/	19.50

	256QAM						

NR n78 PC2							
Hotspot on-Div Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	15.32	15.30	15.25	16.40
		1	49	15.16	15.14	15.14	16.40
		25	12	15.27	15.20	15.18	16.40
		50	0	15.29	15.26	15.22	16.40
	DFT-s-OFDM QPSK	1	1	15.39	15.35	15.33	16.40
		1	49	15.33	15.26	15.23	16.40
		25	12	15.23	15.23	15.21	16.40
		50	0	15.22	15.20	15.20	16.40
	DFT-s-OFDM 16QAM	1	1	15.41	15.37	15.39	16.40
		1	49	15.55	15.51	15.48	16.40
		25	12	15.21	15.16	15.13	16.40
	DFT-s-OFDM 64QAM	1	1	15.31	15.24	15.20	16.40
		1	49	15.22	15.19	15.15	16.40
		25	12	15.29	15.25	15.23	16.40
	DFT-s-OFDM 256QAM	1	1	15.34	15.25	15.21	16.40
		1	49	15.20	15.11	15.11	16.40
		25	12	15.24	15.20	15.13	16.40
	CP-OFDM QPSK	1	1	15.38	15.33	15.30	16.40
	CP-OFDM 16QAM	1	1	15.31	15.24	15.20	16.40
	CP-OFDM 64QAM	1	1	15.28	15.25	15.21	16.40
	CP-OFDM 256QAM	1	1	14.82	14.78	14.76	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	15.34	15.37	15.27	16.40
		1	76	15.16	15.14	15.15	16.40
		36	18	15.30	15.22	15.22	16.40
		75	0	15.31	15.30	15.25	16.40
	DFT-s-OFDM QPSK	1	1	15.41	15.39	15.36	16.40
		1	76	15.37	15.30	15.26	16.40
		36	18	15.24	15.30	15.26	16.40
		75	0	15.23	15.23	15.25	16.40
	DFT-s-OFDM 16QAM	1	1	15.42	15.38	15.42	16.40
		1	76	15.57	15.56	15.50	16.40

		36	18	15.24	15.17	15.15	16.40
	DFT-s-OFDM 64QAM	1	1	15.35	15.27	15.24	16.40
		1	76	15.24	15.23	15.18	16.40
		36	18	15.31	15.29	15.26	16.40
	DFT-s-OFDM 256QAM	1	1	15.39	15.32	15.26	16.40
		1	76	15.23	15.16	15.14	16.40
		36	18	15.30	15.25	15.15	16.40
	CP-OFDM QPSK	1	1	15.41	15.34	15.36	16.40
	CP-OFDM 16QAM	1	1	15.35	15.27	15.24	16.40
	CP-OFDM 64QAM	1	1	15.30	15.29	15.24	16.40
	CP-OFDM 256QAM	1	1	14.84	14.82	14.79	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	15.29	15.28	15.21	16.40
		1	104	15.14	15.10	15.11	16.40
		50	25	15.24	15.15	15.14	16.40
		100	0	15.26	15.21	15.18	16.40
	DFT-s-OFDM QPSK	1	1	15.37	15.31	15.28	16.40
		1	104	15.31	15.24	15.19	16.40
		50	25	15.23	15.22	15.19	16.40
		100	0	15.22	15.16	15.17	16.40
	DFT-s-OFDM 16QAM	1	1	15.41	15.35	15.36	16.40
		1	104	15.52	15.49	15.44	16.40
		50	25	15.19	15.12	15.10	16.40
	DFT-s-OFDM 64QAM	1	1	15.28	15.19	15.16	16.40
		1	104	15.19	15.14	15.11	16.40
		50	25	15.27	15.21	15.18	16.40
	DFT-s-OFDM 256QAM	1	1	15.31	15.25	15.18	16.40
		1	104	15.17	15.13	15.08	16.40
		50	25	15.25	15.18	15.09	16.40
	CP-OFDM QPSK	1	1	15.36	15.29	15.31	16.40
	CP-OFDM 16QAM	1	1	15.28	15.19	15.16	16.40
	CP-OFDM 64QAM	1	1	15.25	15.20	15.17	16.40
	CP-OFDM 256QAM	1	1	14.80	14.74	14.71	16.40

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	15.31	15.29	15.24	16.40
		1	131	15.17	15.15	15.15	16.40
		64	32	15.26	15.19	15.17	16.40
		128	0	15.29	15.26	15.22	16.40
	DFT-s-OFDM QPSK	1	1	15.40	15.36	15.32	16.40
		1	131	15.33	15.28	15.24	16.40
		64	32	15.27	15.24	15.23	16.40
		128	0	15.26	15.19	15.19	16.40
	DFT-s-OFDM 16QAM	1	1	15.45	15.39	15.39	16.40
		1	131	15.55	15.51	15.47	16.40
		64	32	15.22	15.17	15.14	16.40
	DFT-s-OFDM 64QAM	1	1	15.30	15.23	15.19	16.40
		1	131	15.22	15.19	15.15	16.40
		64	32	15.30	15.26	15.22	16.40
	DFT-s-OFDM 256QAM	1	1	15.33	15.24	15.20	16.40
		1	131	15.20	15.13	15.11	16.40
		64	32	15.24	15.20	15.12	16.40
	CP-OFDM QPSK	1	1	15.39	15.34	15.31	16.40
	CP-OFDM 16QAM	1	1	15.30	15.23	15.19	16.40
	CP-OFDM 64QAM	1	1	15.28	15.25	15.21	16.40
	CP-OFDM 256QAM	1	1	14.83	14.79	14.75	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	15.36	15.38	15.30	16.40
		1	160	15.19	15.19	15.19	16.40
		81	40	15.32	15.26	15.25	16.40
		162	0	15.34	15.35	15.29	16.40
	DFT-s-OFDM QPSK	1	1	15.44	15.44	15.40	16.40
		1	160	15.39	15.34	15.31	16.40
		81	40	15.28	15.32	15.30	16.40
		162	0	15.27	15.26	15.27	16.40
	DFT-s-OFDM 16QAM	1	1	15.46	15.42	15.45	16.40
		1	160	15.60	15.58	15.53	16.40
		81	40	15.27	15.22	15.19	16.40
	DFT-s-OFDM 64QAM	1	1	15.37	15.31	15.27	16.40
		1	160	15.27	15.28	15.22	16.40
		81	40	15.34	15.34	15.30	16.40

	DFT-s-OFDM 256QAM	1	1	15.41	15.31	15.28	16.40
		1	160	15.26	15.16	15.17	16.40
		81	40	15.29	15.27	15.18	16.40
	CP-OFDM QPSK	1	1	15.44	15.39	15.36	16.40
	CP-OFDM 16QAM	1	1	15.37	15.31	15.27	16.40
	CP-OFDM 64QAM	1	1	15.33	15.34	15.28	16.40
	CP-OFDM 256QAM	1	1	14.87	14.87	14.83	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	15.35	15.34	15.28	16.40
		1	187	15.17	15.18	15.16	16.40
		92	45	15.29	15.21	15.21	16.40
		180	0	15.32	15.31	15.26	16.40
	DFT-s-OFDM QPSK	1	1	15.41	15.39	15.36	16.40
		1	187	15.36	15.31	15.27	16.40
		92	45	15.26	15.28	15.25	16.40
		180	0	15.25	15.24	15.25	16.40
	DFT-s-OFDM 16QAM	1	1	15.44	15.39	15.43	16.40
		1	187	15.58	15.54	15.50	16.40
		92	46	15.24	15.20	15.16	16.40
	DFT-s-OFDM 64QAM	1	1	15.34	15.26	15.23	16.40
		1	187	15.25	15.24	15.19	16.40
		92	46	15.31	15.29	15.26	16.40
	DFT-s-OFDM 256QAM	1	1	15.36	15.29	15.26	16.40
		1	187	15.24	15.13	15.15	16.40
		92	46	15.30	15.26	15.19	16.40
	CP-OFDM QPSK	1	1	15.43	15.41	15.37	16.40
	CP-OFDM 16QAM	1	1	15.35	15.28	15.26	16.40
	CP-OFDM 64QAM	1	1	15.31	15.30	15.25	16.40
	CP-OFDM 256QAM	1	1	14.84	14.82	14.79	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	15.30	15.25	15.22	16.40
		1	215	15.15	15.14	15.12	16.40
		108	54	15.23	15.14	15.13	16.40

		216	0	15.27	15.22	15.19	16.40
	DFT-s-OFDM QPSK	1	1	15.37	15.31	15.28	16.40
		1	215	15.30	15.25	15.20	16.40
		108	54	15.25	15.20	15.18	16.40
		216	0	15.24	15.17	15.17	16.40
	DFT-s-OFDM 16QAM	1	1	15.43	15.36	15.37	16.40
		1	215	15.53	15.47	15.44	16.40
		108	54	15.19	15.15	15.11	16.40
	DFT-s-OFDM 64QAM	1	1	15.27	15.18	15.15	16.40
		1	215	15.20	15.15	15.12	16.40
		108	54	15.27	15.21	15.18	16.40
	DFT-s-OFDM 256QAM	1	1	15.28	15.22	15.18	16.40
		1	215	15.18	15.10	15.09	16.40
		108	54	15.25	15.19	15.13	16.40
	CP-OFDM QPSK	1	1	15.38	15.36	15.32	16.40
	CP-OFDM 16QAM	1	1	15.28	15.20	15.18	16.40
	CP-OFDM 64QAM	1	1	15.26	15.21	15.18	16.40
	CP-OFDM 256QAM	1	1	14.80	14.74	14.71	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	15.27	15.21	15.19	16.40
		1	243	15.14	15.10	15.10	16.40
		120	60	15.21	15.13	15.10	16.40
		243	0	15.24	15.17	15.15	16.40
	DFT-s-OFDM QPSK	1	1	15.35	15.27	15.25	16.40
		1	243	15.27	15.20	15.16	16.40
		120	60	15.22	15.15	15.14	16.40
		243	0	15.21	15.13	15.12	16.40
	DFT-s-OFDM 16QAM	1	1	15.40	15.34	15.33	16.40
		1	243	15.50	15.44	15.42	16.40
		120	60	15.16	15.11	15.08	16.40
		1	1	15.24	15.16	15.12	16.40
	DFT-s-OFDM 64QAM	1	243	15.17	15.10	15.08	16.40
		120	60	15.25	15.17	15.15	16.40
		1	1	15.26	15.18	15.13	16.40
	DFT-s-OFDM 256QAM	1	243	15.14	15.08	15.05	16.40
		120	60	15.19	15.13	15.07	16.40
	CP-OFDM QPSK	1	1	15.33	15.28	15.25	16.40

	CP-OFDM 16QAM	1	1	15.24	15.16	15.12	16.40
	CP-OFDM 64QAM	1	1	15.23	15.16	15.14	16.40
	CP-OFDM 256QAM	1	1	14.78	14.70	14.68	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	15.10	/	16.40
		1	271	/	15.06	/	16.40
		135	67	/	15.03	/	16.40
		270	0	/	15.06	/	16.40
	DFT-s-OFDM QPSK	1	1	/	15.17	/	16.40
		1	271	/	15.10	/	16.40
		135	67	/	15.06	/	16.40
		270	0	/	15.05	/	16.40
	DFT-s-OFDM 16QAM	1	1	/	15.30	/	16.40
		1	271	/	15.35	/	16.40
		135	67	/	15.03	/	16.40
	DFT-s-OFDM 64QAM	1	1	/	15.04	/	16.40
		1	271	/	14.99	/	16.40
		135	67	/	15.07	/	16.40
	DFT-s-OFDM 256QAM	1	1	/	15.06	/	16.40
		1	271	/	15.02	/	16.40
		135	67	/	15.00	/	16.40
	CP-OFDM QPSK	1	1	/	15.20	/	16.40
	CP-OFDM 16QAM	1	1	/	15.04	/	16.40
	CP-OFDM 64QAM	1	1	/	15.05	/	16.40
	CP-OFDM 256QAM	1	1	/	14.60	/	16.40

NR n78 PC2							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	18.07	18.08	18.15	19.50
		1	49	18.38	18.35	18.41	19.50
		25	12	18.39	18.33	18.44	19.50
		50	0	18.36	18.33	18.43	19.50
	DFT-s-OFDM	1	1	18.09	18.06	18.16	19.50

	QPSK	1	49	18.50	18.44	18.55	19.50
		25	12	18.39	18.40	18.54	19.50
		50	0	18.36	18.33	18.45	19.50
	DFT-s-OFDM 16QAM	1	1	18.03	17.98	18.07	19.50
		1	49	18.40	18.38	18.45	19.50
		25	12	18.39	18.31	18.39	19.50
	DFT-s-OFDM 64QAM	1	1	18.18	18.11	18.22	19.50
		1	49	18.60	18.57	18.67	19.50
		25	12	18.31	18.28	18.38	19.50
	DFT-s-OFDM 256QAM	1	1	18.09	18.04	18.16	19.50
		1	49	18.48	18.44	18.53	19.50
		25	12	18.38	18.32	18.39	19.50
	CP-OFDM QPSK	1	1	17.98	17.90	18.02	19.50
	CP-OFDM 16QAM	1	1	17.88	17.81	17.92	19.50
	CP-OFDM 64QAM	1	1	18.16	18.13	18.23	19.50
	CP-OFDM 256QAM	1	1	17.51	17.48	17.58	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	18.10	18.12	18.18	19.50
		1	76	18.39	18.39	18.43	19.50
		36	18	18.41	18.34	18.47	19.50
		75	0	18.39	18.38	18.47	19.50
	DFT-s-OFDM QPSK	1	1	18.11	18.10	18.19	19.50
		1	76	18.53	18.49	18.59	19.50
		36	18	18.42	18.45	18.58	19.50
		75	0	18.39	18.37	18.50	19.50
	DFT-s-OFDM 16QAM	1	1	18.06	18.00	18.11	19.50
		1	76	18.43	18.41	18.47	19.50
		36	18	18.42	18.35	18.42	19.50
	DFT-s-OFDM 64QAM	1	1	18.21	18.13	18.25	19.50
		1	76	18.63	18.62	18.71	19.50
		36	18	18.33	18.32	18.41	19.50
	DFT-s-OFDM 256QAM	1	1	18.11	18.08	18.21	19.50
		1	76	18.52	18.46	18.57	19.50
		36	18	18.44	18.38	18.45	19.50
	CP-OFDM QPSK	1	1	18.03	17.98	18.09	19.50
	CP-OFDM 16QAM	1	1	17.92	17.85	17.98	19.50

	CP-OFDM 64QAM	1	1	18.19	18.18	18.27	19.50
	CP-OFDM 256QAM	1	1	17.53	17.52	17.61	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	18.09	18.09	18.18	19.50
		1	104	18.41	18.40	18.45	19.50
		50	25	18.41	18.37	18.47	19.50
		100	0	18.39	18.38	18.47	19.50
	DFT-s-OFDM QPSK	1	1	18.12	18.11	18.20	19.50
		1	104	18.52	18.48	18.60	19.50
		50	25	18.43	18.42	18.58	19.50
		100	0	18.40	18.36	18.47	19.50
	DFT-s-OFDM 16QAM	1	1	18.07	18.02	18.10	19.50
		1	104	18.43	18.40	18.48	19.50
		50	25	18.42	18.36	18.43	19.50
	DFT-s-OFDM 64QAM	1	1	18.20	18.15	18.25	19.50
		1	104	18.63	18.62	18.71	19.50
		50	25	18.34	18.33	18.42	19.50
	DFT-s-OFDM 256QAM	1	1	18.11	18.03	18.18	19.50
		1	104	18.51	18.44	18.56	19.50
		50	25	18.37	18.34	18.42	19.50
	CP-OFDM QPSK	1	1	18.01	17.95	18.02	19.50
	CP-OFDM 16QAM	1	1	17.90	17.85	17.95	19.50
	CP-OFDM 64QAM	1	1	18.19	18.18	18.27	19.50
	CP-OFDM 256QAM	1	1	17.54	17.53	17.62	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	18.08	18.05	18.16	19.50
		1	131	18.39	18.39	18.42	19.50
		64	32	18.38	18.32	18.43	19.50
		128	0	18.37	18.34	18.44	19.50
	DFT-s-OFDM QPSK	1	1	18.09	18.06	18.16	19.50
		1	131	18.49	18.45	18.56	19.50
		64	32	18.41	18.38	18.53	19.50
		128	0	18.38	18.34	18.45	19.50
	DFT-s-OFDM 16QAM	1	1	18.05	17.99	18.08	19.50
		1	131	18.41	18.36	18.45	19.50

		64	32	18.39	18.34	18.40	19.50
	DFT-s-OFDM 64QAM	1	1	18.17	18.10	18.21	19.50
		1	131	18.61	18.58	18.68	19.50
		64	32	18.31	18.28	18.38	19.50
	DFT-s-OFDM 256QAM	1	1	18.06	18.01	18.16	19.50
		1	131	18.49	18.41	18.54	19.50
		64	32	18.38	18.33	18.43	19.50
	CP-OFDM QPSK	1	1	18.00	17.97	18.03	19.50
	CP-OFDM 16QAM	1	1	17.88	17.82	17.94	19.50
	CP-OFDM 64QAM	1	1	18.17	18.14	18.24	19.50
	CP-OFDM 256QAM	1	1	17.51	17.48	17.58	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	18.09	18.15	18.17	19.50
		1	160	18.38	18.35	18.42	19.50
		81	40	18.42	18.35	18.48	19.50
		162	0	18.38	18.37	18.46	19.50
	DFT-s-OFDM QPSK	1	1	18.11	18.10	18.19	19.50
		1	160	18.54	18.48	18.58	19.50
		81	40	18.40	18.47	18.59	19.50
		162	0	18.37	18.36	18.50	19.50
	DFT-s-OFDM 16QAM	1	1	18.04	17.99	18.10	19.50
		1	160	18.42	18.43	18.47	19.50
		81	40	18.42	18.32	18.41	19.50
	DFT-s-OFDM 64QAM	1	1	18.22	18.14	18.26	19.50
		1	160	18.62	18.61	18.70	19.50
		81	40	18.33	18.32	18.41	19.50
	DFT-s-OFDM 256QAM	1	1	18.14	18.11	18.21	19.50
		1	160	18.51	18.49	18.56	19.50
		81	40	18.44	18.37	18.41	19.50
	CP-OFDM QPSK	1	1	18.01	17.91	18.08	19.50
	CP-OFDM 16QAM	1	1	17.92	17.84	17.96	19.50
	CP-OFDM 64QAM	1	1	18.18	18.17	18.26	19.50
	CP-OFDM 256QAM	1	1	17.53	17.52	17.61	19.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	18.05	18.01	18.13	19.50
		1	187	18.38	18.35	18.40	19.50
		92	45	18.36	18.31	18.40	19.50
		180	0	18.34	18.29	18.40	19.50
	DFT-s-OFDM QPSK	1	1	18.07	18.02	18.13	19.50
		1	187	18.46	18.40	18.52	19.50
		92	45	18.38	18.33	18.49	19.50
		180	0	18.35	18.30	18.40	19.50
	DFT-s-OFDM 16QAM	1	1	18.02	17.97	18.04	19.50
		1	187	18.38	18.33	18.43	19.50
		92	46	18.36	18.30	18.37	19.50
	DFT-s-OFDM 64QAM	1	1	18.14	18.08	18.18	19.50
		1	187	18.58	18.53	18.64	19.50
		92	46	18.29	18.24	18.35	19.50
	DFT-s-OFDM 256QAM	1	1	18.04	17.97	18.11	19.50
		1	187	18.45	18.39	18.50	19.50
		92	46	18.32	18.27	18.37	19.50
	CP-OFDM QPSK	1	1	17.95	17.89	17.96	19.50
	CP-OFDM 16QAM	1	1	17.84	17.78	17.88	19.50
	CP-OFDM 64QAM	1	1	18.14	18.09	18.20	19.50
	CP-OFDM 256QAM	1	1	17.49	17.44	17.55	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	18.11	18.16	18.20	19.50
		1	215	18.41	18.40	18.46	19.50
		108	54	18.44	18.39	18.51	19.50
		216	0	18.41	18.42	18.50	19.50
	DFT-s-OFDM QPSK	1	1	18.14	18.15	18.23	19.50
		1	215	18.56	18.52	18.63	19.50
		108	54	18.44	18.49	18.63	19.50
		216	0	18.41	18.39	18.52	19.50
	DFT-s-OFDM 16QAM	1	1	18.08	18.03	18.13	19.50
		1	215	18.45	18.45	18.50	19.50
		108	54	18.45	18.37	18.45	19.50
	DFT-s-OFDM 64QAM	1	1	18.24	18.18	18.29	19.50
		1	215	18.65	18.66	18.74	19.50
		108	54	18.36	18.37	18.45	19.50

	DFT-s-OFDM 256QAM	1	1	18.16	18.10	18.23	19.50
		1	215	18.54	18.49	18.59	19.50
		108	54	18.43	18.39	18.44	19.50
	CP-OFDM QPSK	1	1	18.04	17.96	18.08	19.50
	CP-OFDM 16QAM	1	1	17.94	17.88	17.99	19.50
	CP-OFDM 64QAM	1	1	18.21	18.22	18.30	19.50
	CP-OFDM 256QAM	1	1	17.56	17.57	17.65	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	18.04	17.97	18.11	19.50
		1	243	18.36	18.34	18.37	19.50
		120	60	18.33	18.26	18.36	19.50
		243	0	18.32	18.25	18.37	19.50
	DFT-s-OFDM QPSK	1	1	18.04	17.97	18.09	19.50
		1	243	18.43	18.37	18.48	19.50
		120	60	18.36	18.29	18.44	19.50
		243	0	18.33	18.28	18.38	19.50
	DFT-s-OFDM 16QAM	1	1	18.00	17.94	18.02	19.50
		1	243	18.36	18.29	18.40	19.50
		120	60	18.33	18.28	18.34	19.50
	DFT-s-OFDM 64QAM	1	1	18.11	18.03	18.14	19.50
		1	243	18.56	18.49	18.61	19.50
		120	60	18.26	18.19	18.31	19.50
	DFT-s-OFDM 256QAM	1	1	17.99	17.95	18.09	19.50
		1	243	18.43	18.36	18.48	19.50
		120	60	18.33	18.26	18.38	19.50
	CP-OFDM QPSK	1	1	17.94	17.91	17.97	19.50
	CP-OFDM 16QAM	1	1	17.82	17.75	17.87	19.50
	CP-OFDM 64QAM	1	1	18.12	18.05	18.17	19.50
	CP-OFDM 256QAM	1	1	17.46	17.39	17.51	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	17.90	/	19.50
		1	271	/	18.28	/	19.50
		135	67	/	18.22	/	19.50

		270	0	/	18.16	/	19.50
	DFT-s-OFDM QPSK	1	1	/	17.90	/	19.50
		1	271	/	18.28	/	19.50
		135	67	/	18.20	/	19.50
		270	0	/	18.19	/	19.50
	DFT-s-OFDM 16QAM	1	1	/	17.88	/	19.50
		1	271	/	18.24	/	19.50
		135	67	/	18.21	/	19.50
	DFT-s-OFDM 64QAM	1	1	/	17.98	/	19.50
		1	271	/	18.40	/	19.50
		135	67	/	18.12	/	19.50
	DFT-s-OFDM 256QAM	1	1	/	17.86	/	19.50
		1	271	/	18.30	/	19.50
		135	67	/	18.14	/	19.50
	CP-OFDM QPSK	1	1	/	17.76	/	19.50
	CP-OFDM 16QAM	1	1	/	17.65	/	19.50
	CP-OFDM 64QAM	1	1	/	17.96	/	19.50
	CP-OFDM 256QAM	1	1	/	17.32	/	19.00

NR n78 PC2							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	16.48	16.45	16.42	17.80
		1	49	16.77	16.82	16.79	17.80
		25	12	16.75	16.61	16.70	17.80
		50	0	16.71	16.69	16.68	17.80
	DFT-s-OFDM QPSK	1	1	16.40	16.39	16.40	17.80
		1	49	16.94	16.85	16.87	17.80
		25	12	16.65	16.69	16.71	17.80
		50	0	16.61	16.62	16.70	17.80
	DFT-s-OFDM 16QAM	1	1	16.29	16.24	16.34	17.80
		1	49	16.82	16.75	16.74	17.80
		25	12	16.65	16.57	16.57	17.80
	DFT-s-OFDM 64QAM	1	1	16.56	16.40	16.46	17.80
		1	49	16.98	16.96	16.95	17.80
		25	12	16.63	16.62	16.63	17.80
	DFT-s-OFDM 256QAM	1	1	16.50	16.35	16.43	17.80
		1	49	16.90	16.71	16.81	17.80

		25	12	16.79	16.68	16.69	17.80
	CP-OFDM QPSK	1	1	16.40	16.32	16.36	17.80
	CP-OFDM 16QAM	1	1	16.28	16.14	16.22	17.80
	CP-OFDM 64QAM	1	1	16.52	16.50	16.49	17.80
	CP-OFDM 256QAM	1	1	16.17	16.16	16.17	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	16.45	16.41	16.39	17.80
		1	76	16.76	16.78	16.77	17.80
		36	18	16.73	16.60	16.67	17.80
		75	0	16.68	16.64	16.64	17.80
	DFT-s-OFDM QPSK	1	1	16.38	16.35	16.37	17.80
		1	76	16.91	16.80	16.83	17.80
		36	18	16.62	16.64	16.67	17.80
		75	0	16.58	16.58	16.65	17.80
	DFT-s-OFDM 16QAM	1	1	16.26	16.22	16.30	17.80
		1	76	16.79	16.72	16.72	17.80
		36	18	16.62	16.53	16.54	17.80
	DFT-s-OFDM 64QAM	1	1	16.53	16.38	16.43	17.80
		1	76	16.95	16.91	16.91	17.80
		36	18	16.61	16.58	16.60	17.80
	DFT-s-OFDM 256QAM	1	1	16.48	16.31	16.38	17.80
		1	76	16.86	16.69	16.77	17.80
		36	18	16.73	16.62	16.63	17.80
	CP-OFDM QPSK	1	1	16.35	16.24	16.29	17.80
	CP-OFDM 16QAM	1	1	16.24	16.10	16.16	17.80
	CP-OFDM 64QAM	1	1	16.49	16.45	16.45	17.80
	CP-OFDM 256QAM	1	1	16.15	16.12	16.14	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	16.49	16.49	16.44	17.80
		1	104	16.79	16.83	16.82	17.80
		50	25	16.78	16.66	16.74	17.80
		100	0	16.73	16.73	16.71	17.80
	DFT-s-OFDM	1	1	16.43	16.44	16.44	17.80

	QPSK	1	104	16.97	16.88	16.91	17.80
		50	25	16.67	16.73	16.76	17.80
		100	0	16.63	16.64	16.72	17.80
	DFT-s-OFDM 16QAM	1	1	16.31	16.27	16.36	17.80
		1	104	16.84	16.79	16.77	17.80
		50	25	16.68	16.59	16.60	17.80
	DFT-s-OFDM 64QAM	1	1	16.59	16.45	16.50	17.80
		1	104	17.00	17.00	16.98	17.80
		50	25	16.66	16.67	16.67	17.80
	DFT-s-OFDM 256QAM	1	1	16.55	16.37	16.45	17.80
		1	104	16.92	16.74	16.83	17.80
		50	25	16.78	16.69	16.68	17.80
	CP-OFDM QPSK	1	1	16.41	16.30	16.35	17.80
	CP-OFDM 16QAM	1	1	16.30	16.17	16.23	17.80
	CP-OFDM 64QAM	1	1	16.54	16.54	16.52	17.80
	CP-OFDM 256QAM	1	1	16.20	16.21	16.21	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	16.47	16.48	16.41	17.80
		1	131	16.76	16.78	16.78	17.80
		64	32	16.76	16.62	16.71	17.80
		128	0	16.70	16.68	16.67	17.80
	DFT-s-OFDM QPSK	1	1	16.40	16.39	16.40	17.80
		1	131	16.95	16.84	16.86	17.80
		64	32	16.63	16.71	16.72	17.80
		128	0	16.59	16.61	16.70	17.80
	DFT-s-OFDM 16QAM	1	1	16.27	16.23	16.33	17.80
		1	131	16.81	16.77	16.74	17.80
		64	32	16.65	16.54	16.56	17.80
	DFT-s-OFDM 64QAM	1	1	16.57	16.41	16.47	17.80
		1	131	16.97	16.95	16.94	17.80
		64	32	16.63	16.62	16.63	17.80
	DFT-s-OFDM 256QAM	1	1	16.53	16.38	16.43	17.80
		1	131	16.89	16.74	16.80	17.80
		64	32	16.79	16.67	16.65	17.80
	CP-OFDM QPSK	1	1	16.38	16.25	16.35	17.80
	CP-OFDM 16QAM	1	1	16.28	16.13	16.20	17.80

	CP-OFDM 64QAM	1	1	16.51	16.49	16.48	17.80
	CP-OFDM 256QAM	1	1	16.17	16.16	16.17	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	16.42	16.39	16.35	17.80
		1	160	16.74	16.74	16.74	17.80
		81	40	16.70	16.55	16.63	17.80
		162	0	16.65	16.59	16.60	17.80
	DFT-s-OFDM QPSK	1	1	16.36	16.31	16.32	17.80
		1	160	16.89	16.78	16.79	17.80
		81	40	16.62	16.63	16.65	17.80
		162	0	16.58	16.54	16.62	17.80
	DFT-s-OFDM 16QAM	1	1	16.26	16.20	16.27	17.80
		1	160	16.76	16.70	16.68	17.80
		81	40	16.60	16.49	16.51	17.80
	DFT-s-OFDM 64QAM	1	1	16.50	16.33	16.39	17.80
		1	160	16.92	16.86	16.87	17.80
		81	40	16.59	16.54	16.55	17.80
	DFT-s-OFDM 256QAM	1	1	16.45	16.31	16.35	17.80
		1	160	16.83	16.71	16.74	17.80
		81	40	16.74	16.60	16.59	17.80
	CP-OFDM QPSK	1	1	16.33	16.20	16.30	17.80
	CP-OFDM 16QAM	1	1	16.21	16.05	16.12	17.80
	CP-OFDM 64QAM	1	1	16.46	16.40	16.41	17.80
	CP-OFDM 256QAM	1	1	16.13	16.08	16.09	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	16.44	16.40	16.38	17.80
		1	187	16.77	16.79	16.78	17.80
		92	45	16.72	16.59	16.66	17.80
		180	0	16.68	16.64	16.64	17.80
	DFT-s-OFDM QPSK	1	1	16.39	16.36	16.36	17.80
		1	187	16.91	16.82	16.84	17.80
		92	45	16.66	16.65	16.69	17.80
		180	0	16.62	16.57	16.64	17.80
	DFT-s-OFDM 16QAM	1	1	16.30	16.24	16.30	17.80
		1	187	16.79	16.72	16.71	17.80

		92	46	16.63	16.54	16.55	17.80
	DFT-s-OFDM 64QAM	1	1	16.52	16.37	16.42	17.80
		1	187	16.95	16.91	16.91	17.80
		92	46	16.62	16.59	16.59	17.80
	DFT-s-OFDM 256QAM	1	1	16.47	16.30	16.37	17.80
		1	187	16.86	16.71	16.77	17.80
		92	46	16.73	16.62	16.62	17.80
	CP-OFDM QPSK	1	1	16.36	16.25	16.30	17.80
	CP-OFDM 16QAM	1	1	16.23	16.09	16.15	17.80
	CP-OFDM 64QAM	1	1	16.49	16.45	16.45	17.80
	CP-OFDM 256QAM	1	1	16.16	16.13	16.13	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	16.50	16.50	16.45	17.80
		1	215	16.78	16.82	16.81	17.80
		108	54	16.79	16.67	16.75	17.80
		216	0	16.73	16.73	16.71	17.80
	DFT-s-OFDM QPSK	1	1	16.42	16.43	16.45	17.80
		1	215	16.97	16.86	16.90	17.80
		108	54	16.63	16.72	16.74	17.80
		216	0	16.59	16.65	16.73	17.80
	DFT-s-OFDM 16QAM	1	1	16.27	16.25	16.36	17.80
		1	215	16.84	16.79	16.78	17.80
		108	54	16.67	16.58	16.59	17.80
	DFT-s-OFDM 64QAM	1	1	16.60	16.46	16.51	17.80
		1	215	17.00	17.00	16.98	17.80
		108	54	16.65	16.66	16.68	17.80
	DFT-s-OFDM 256QAM	1	1	16.56	16.38	16.46	17.80
		1	215	16.92	16.72	16.83	17.80
		108	54	16.78	16.69	16.69	17.80
	CP-OFDM QPSK	1	1	16.40	16.29	16.34	17.80
	CP-OFDM 16QAM	1	1	16.31	16.18	16.24	17.80
	CP-OFDM 64QAM	1	1	16.54	16.54	16.52	17.80
	CP-OFDM 256QAM	1	1	16.19	16.20	16.22	17.80

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	16.40	16.32	16.33	17.80
		1	243	16.74	16.74	16.73	17.80
		120	60	16.67	16.53	16.59	17.80
		243	0	16.63	16.55	16.57	17.80
	DFT-s-OFDM QPSK	1	1	16.34	16.27	16.29	17.80
		1	243	16.85	16.74	16.76	17.80
		120	60	16.61	16.56	16.60	17.80
		243	0	16.57	16.51	16.57	17.80
	DFT-s-OFDM 16QAM	1	1	16.25	16.19	16.24	17.80
		1	243	16.74	16.65	16.66	17.80
		120	60	16.57	16.48	16.49	17.80
	DFT-s-OFDM 64QAM	1	1	16.46	16.30	16.35	17.80
		1	243	16.90	16.82	16.84	17.80
		120	60	16.57	16.50	16.52	17.80
	DFT-s-OFDM 256QAM	1	1	16.40	16.24	16.30	17.80
		1	243	16.80	16.66	16.71	17.80
		120	60	16.68	16.55	16.57	17.80
	CP-OFDM QPSK	1	1	16.30	16.19	16.24	17.80
	CP-OFDM 16QAM	1	1	16.17	16.02	16.08	17.80
	CP-OFDM 64QAM	1	1	16.44	16.36	16.38	17.80
	CP-OFDM 256QAM	1	1	16.11	16.04	16.06	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	16.19	/	17.80
		1	271	/	16.66	/	17.80
		135	67	/	16.45	/	17.80
		270	0	/	16.41	/	17.80
	DFT-s-OFDM QPSK	1	1	/	16.15	/	17.80
		1	271	/	16.63	/	17.80
		135	67	/	16.43	/	17.80
		270	0	/	16.40	/	17.80
	DFT-s-OFDM 16QAM	1	1	/	16.14	/	17.80
		1	271	/	16.55	/	17.80
		135	67	/	16.39	/	17.80
	DFT-s-OFDM 64QAM	1	1	/	16.20	/	17.80
		1	271	/	16.68	/	17.80
		135	67	/	16.38	/	17.80

	DFT-s-OFDM 256QAM	1	1	/	16.13	/	17.80
		1	271	/	16.61	/	17.80
		135	67	/	16.42	/	17.80
	CP-OFDM QPSK	1	1	/	16.06	/	17.80
	CP-OFDM 16QAM	1	1	/	15.90	/	17.80
	CP-OFDM 64QAM	1	1	/	16.22	/	17.80
	CP-OFDM 256QAM	1	1	/	15.92	/	17.80

NR n78 PC2							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	12.08	12.18	12.16	13.10
		1	49	12.47	12.53	12.55	13.10
		25	12	12.44	12.44	12.56	13.10
		50	0	12.42	12.52	12.53	13.10
	DFT-s-OFDM QPSK	1	1	12.11	12.21	12.25	13.10
		1	49	12.63	12.61	12.73	13.10
		25	12	12.26	12.43	12.43	13.10
		50	0	12.22	12.34	12.39	13.10
	DFT-s-OFDM 16QAM	1	1	12.03	12.06	12.15	13.10
		1	49	12.64	12.68	12.71	13.10
		25	12	12.43	12.40	12.48	13.10
	DFT-s-OFDM 64QAM	1	1	12.32	12.31	12.42	13.10
		1	49	12.66	12.76	12.77	13.10
		25	12	12.35	12.45	12.49	13.10
	DFT-s-OFDM 256QAM	1	1	12.25	12.17	12.33	13.10
		1	49	12.66	12.56	12.72	13.10
		25	12	12.44	12.44	12.51	13.10
	CP-OFDM QPSK	1	1	11.94	11.91	11.99	13.10
	CP-OFDM 16QAM	1	1	11.98	11.97	12.08	13.10
	CP-OFDM 64QAM	1	1	12.16	12.26	12.27	13.10
	CP-OFDM 256QAM	1	1	11.85	11.95	11.99	13.10

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	12.05	12.16	12.12	13.10
		1	76	12.45	12.49	12.52	13.10
		36	18	12.41	12.39	12.52	13.10
		75	0	12.39	12.47	12.49	13.10
	DFT-s-OFDM QPSK	1	1	12.09	12.17	12.20	13.10
		1	76	12.61	12.59	12.69	13.10
		36	18	12.26	12.42	12.41	13.10
		75	0	12.22	12.30	12.36	13.10
	DFT-s-OFDM 16QAM	1	1	12.03	12.04	12.12	13.10
		1	76	12.61	12.66	12.67	13.10
		36	18	12.41	12.36	12.45	13.10
	DFT-s-OFDM 64QAM	1	1	12.29	12.26	12.38	13.10
		1	76	12.63	12.71	12.73	13.10
		36	18	12.33	12.41	12.44	13.10
	DFT-s-OFDM 256QAM	1	1	12.22	12.17	12.30	13.10
		1	76	12.63	12.58	12.69	13.10
		36	18	12.45	12.42	12.47	13.10
	CP-OFDM QPSK	1	1	11.92	11.87	12.00	13.10
	CP-OFDM 16QAM	1	1	11.95	11.92	12.04	13.10
	CP-OFDM 64QAM	1	1	12.13	12.21	12.23	13.10
	CP-OFDM 256QAM	1	1	11.83	11.91	11.94	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	12.07	12.17	12.15	13.10
		1	104	12.48	12.54	12.56	13.10
		50	25	12.43	12.43	12.55	13.10
		100	0	12.42	12.52	12.53	13.10
	DFT-s-OFDM QPSK	1	1	12.12	12.22	12.24	13.10
		1	104	12.63	12.63	12.74	13.10
		50	25	12.30	12.44	12.45	13.10
		100	0	12.26	12.33	12.38	13.10
	DFT-s-OFDM 16QAM	1	1	12.07	12.08	12.15	13.10
		1	104	12.64	12.68	12.70	13.10
		50	25	12.44	12.41	12.49	13.10
	DFT-s-OFDM 64QAM	1	1	12.31	12.30	12.41	13.10
		1	104	12.66	12.76	12.77	13.10
		50	25	12.36	12.46	12.48	13.10

	DFT-s-OFDM 256QAM	1	1	12.24	12.16	12.32	13.10
		1	104	12.66	12.58	12.72	13.10
		50	25	12.44	12.44	12.50	13.10
	CP-OFDM QPSK	1	1	11.95	11.92	12.00	13.10
	CP-OFDM 16QAM	1	1	11.97	11.96	12.07	13.10
	CP-OFDM 64QAM	1	1	12.16	12.26	12.27	13.10
	CP-OFDM 256QAM	1	1	11.86	11.96	11.98	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	12.11	12.22	12.19	13.10
		1	131	12.48	12.57	12.57	13.10
		64	32	12.46	12.45	12.59	13.10
		128	0	12.45	12.57	12.57	13.10
	DFT-s-OFDM QPSK	1	1	12.13	12.25	12.28	13.10
		1	131	12.66	12.66	12.77	13.10
		64	32	12.29	12.48	12.47	13.10
		128	0	12.25	12.38	12.44	13.10
	DFT-s-OFDM 16QAM	1	1	12.06	12.08	12.19	13.10
		1	131	12.67	12.71	12.73	13.10
		64	32	12.46	12.44	12.51	13.10
	DFT-s-OFDM 64QAM	1	1	12.35	12.33	12.45	13.10
		1	131	12.69	12.81	12.81	13.10
		64	32	12.37	12.49	12.52	13.10
	DFT-s-OFDM 256QAM	1	1	12.27	12.21	12.38	13.10
		1	131	12.70	12.58	12.76	13.10
		64	32	12.50	12.50	12.57	13.10
	CP-OFDM QPSK	1	1	11.99	11.99	12.06	13.10
	CP-OFDM 16QAM	1	1	12.02	12.01	12.14	13.10
	CP-OFDM 64QAM	1	1	12.19	12.31	12.31	13.10
	CP-OFDM 256QAM	1	1	11.87	11.99	12.02	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	12.03	12.09	12.10	13.10
		1	160	12.45	12.49	12.51	13.10
		81	40	12.38	12.37	12.48	13.10

		162	0	12.37	12.43	12.46	13.10
	DFT-s-OFDM QPSK	1	1	12.07	12.13	12.17	13.10
		1	160	12.57	12.55	12.66	13.10
		81	40	12.25	12.35	12.36	13.10
		162	0	12.21	12.27	12.31	13.10
	DFT-s-OFDM 16QAM	1	1	12.02	12.03	12.09	13.10
		1	160	12.59	12.61	12.65	13.10
		81	40	12.38	12.35	12.43	13.10
	DFT-s-OFDM 64QAM	1	1	12.25	12.23	12.34	13.10
		1	160	12.61	12.67	12.70	13.10
		81	40	12.31	12.37	12.41	13.10
	DFT-s-OFDM 256QAM	1	1	12.17	12.10	12.25	13.10
		1	160	12.60	12.53	12.66	13.10
		81	40	12.39	12.37	12.45	13.10
	CP-OFDM QPSK	1	1	11.89	11.86	11.94	13.10
	CP-OFDM 16QAM	1	1	11.91	11.89	12.00	13.10
	CP-OFDM 64QAM	1	1	12.11	12.17	12.20	13.10
	CP-OFDM 256QAM	1	1	11.81	11.87	11.91	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	12.00	12.07	12.06	13.10
		1	187	12.43	12.45	12.48	13.10
		92	45	12.35	12.32	12.44	13.10
		180	0	12.34	12.38	12.42	13.10
	DFT-s-OFDM QPSK	1	1	12.05	12.09	12.12	13.10
		1	187	12.55	12.53	12.62	13.10
		92	45	12.25	12.34	12.34	13.10
		180	0	12.21	12.23	12.28	13.10
	DFT-s-OFDM 16QAM	1	1	12.02	12.01	12.06	13.10
		1	187	12.56	12.59	12.61	13.10
		92	46	12.36	12.31	12.40	13.10
	DFT-s-OFDM 64QAM	1	1	12.22	12.18	12.30	13.10
		1	187	12.58	12.62	12.66	13.10
		92	46	12.29	12.33	12.36	13.10
	DFT-s-OFDM 256QAM	1	1	12.14	12.10	12.22	13.10
		1	187	12.57	12.55	12.63	13.10
		92	46	12.40	12.35	12.41	13.10
	CP-OFDM QPSK	1	1	11.87	11.82	11.95	13.10

	CP-OFDM 16QAM	1	1	11.88	11.84	11.96	13.10
	CP-OFDM 64QAM	1	1	12.08	12.12	12.16	13.10
	CP-OFDM 256QAM	1	1	11.79	11.83	11.86	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	12.06	12.13	12.13	13.10
		1	215	12.46	12.53	12.53	13.10
		108	54	12.40	12.38	12.51	13.10
		216	0	12.40	12.48	12.50	13.10
	DFT-s-OFDM QPSK	1	1	12.09	12.17	12.20	13.10
		1	215	12.60	12.60	12.70	13.10
		108	54	12.28	12.40	12.40	13.10
		216	0	12.24	12.31	12.36	13.10
	DFT-s-OFDM 16QAM	1	1	12.05	12.05	12.13	13.10
		1	215	12.62	12.64	12.67	13.10
		108	54	12.41	12.39	12.46	13.10
	DFT-s-OFDM 64QAM	1	1	12.28	12.25	12.37	13.10
		1	215	12.64	12.72	12.74	13.10
		108	54	12.33	12.41	12.44	13.10
	DFT-s-OFDM 256QAM	1	1	12.19	12.14	12.30	13.10
		1	215	12.64	12.55	12.70	13.10
		108	54	12.45	12.43	12.51	13.10
	CP-OFDM QPSK	1	1	11.94	11.94	12.01	13.10
	CP-OFDM 16QAM	1	1	11.95	11.93	12.06	13.10
	CP-OFDM 64QAM	1	1	12.14	12.22	12.24	13.10
	CP-OFDM 256QAM	1	1	11.83	11.91	11.94	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	11.98	12.00	12.04	13.10
		1	243	12.43	12.45	12.47	13.10
		120	60	12.32	12.30	12.40	13.10
		243	0	12.32	12.34	12.39	13.10
	DFT-s-OFDM QPSK	1	1	12.03	12.05	12.09	13.10
		1	243	12.51	12.49	12.59	13.10
		120	60	12.24	12.27	12.29	13.10
		243	0	12.20	12.20	12.23	13.10

	DFT-s-OFDM 16QAM	1	1	12.01	12.00	12.03	13.10
		1	243	12.54	12.54	12.59	13.10
		120	60	12.33	12.30	12.38	13.10
	DFT-s-OFDM 64QAM	1	1	12.18	12.15	12.26	13.10
		1	243	12.56	12.58	12.63	13.10
		120	60	12.27	12.29	12.33	13.10
	DFT-s-OFDM 256QAM	1	1	12.09	12.03	12.17	13.10
		1	243	12.54	12.50	12.60	13.10
		120	60	12.34	12.30	12.39	13.10
	CP-OFDM QPSK	1	1	11.84	11.81	11.89	13.10
	CP-OFDM 16QAM	1	1	11.84	11.81	11.92	13.10
	CP-OFDM 64QAM	1	1	12.06	12.08	12.13	13.10
	CP-OFDM 256QAM	1	1	11.77	11.79	11.83	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	11.87	/	13.10
		1	271	/	12.38	/	13.10
		135	67	/	12.18	/	13.10
		270	0	/	12.20	/	13.10
	DFT-s-OFDM QPSK	1	1	/	11.92	/	13.10
		1	271	/	12.35	/	13.10
		135	67	/	12.17	/	13.10
		270	0	/	12.13	/	13.10
	DFT-s-OFDM 16QAM	1	1	/	11.94	/	13.10
		1	271	/	12.42	/	13.10
		135	67	/	12.19	/	13.10
	DFT-s-OFDM 64QAM	1	1	/	12.01	/	13.10
		1	271	/	12.44	/	13.10
		135	67	/	12.16	/	13.10
	DFT-s-OFDM 256QAM	1	1	/	11.89	/	13.10
		1	271	/	12.39	/	13.10
		135	67	/	12.18	/	13.10
	CP-OFDM QPSK	1	1	/	11.70	/	13.10
	CP-OFDM 16QAM	1	1	/	11.67	/	13.10
	CP-OFDM 64QAM	1	1	/	11.94	/	13.10
	CP-OFDM	1	1	/	11.66	/	13.10

	256QAM						

NR n78 PC2							
Receiver on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	21.74	21.74	21.64	23.00
		1	49	21.73	21.76	21.70	23.00
		25	12	21.91	21.85	21.80	23.00
		50	0	21.78	21.79	21.69	23.00
	DFT-s-OFDM QPSK	1	1	21.72	21.74	21.65	23.00
		1	49	21.46	21.42	21.35	23.00
		25	12	21.75	21.83	21.74	23.00
		50	0	21.24	21.30	21.24	23.00
	DFT-s-OFDM 16QAM	1	1	21.28	21.28	21.27	23.00
		1	49	22.12	21.83	21.67	23.00
		25	12	21.18	21.14	21.08	23.00
	DFT-s-OFDM 64QAM	1	1	20.42	20.35	20.28	22.00
		1	49	21.56	21.73	20.01	22.00
		25	12	20.16	20.18	20.09	22.00
	DFT-s-OFDM 256QAM	1	1	19.55	19.48	19.42	20.00
		1	49	19.25	19.14	19.13	20.00
		25	12	19.05	19.02	18.95	20.00
	CP-OFDM QPSK	1	1	21.20	21.18	21.12	23.00
	CP-OFDM 16QAM	1	1	20.72	20.66	20.60	22.50
	CP-OFDM 64QAM	1	1	19.94	19.95	19.85	21.00
CP-OFDM 256QAM	1	1	17.49	17.51	17.42	18.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	21.75	21.78	21.66	23.00
		1	76	21.75	21.77	21.73	23.00
		36	18	21.94	21.90	21.84	23.00
		75	0	21.80	21.83	21.72	23.00
	DFT-s-OFDM QPSK	1	1	21.75	21.79	21.69	23.00
		1	76	21.49	21.45	21.39	23.00
		36	18	21.77	21.87	21.79	23.00
		75	0	21.26	21.32	21.26	23.00
	DFT-s-OFDM 16QAM	1	1	21.30	21.31	21.29	23.00
		1	76	22.09	21.86	22.00	23.00

		36	18	21.21	21.16	21.11	23.00
	DFT-s-OFDM 64QAM	1	1	20.45	20.40	20.32	22.00
		1	76	21.09	20.78	20.89	22.00
		36	18	20.19	20.23	20.13	22.00
	DFT-s-OFDM 256QAM	1	1	19.60	19.50	19.44	20.00
		1	76	19.27	19.17	19.15	20.00
		36	18	19.04	19.03	18.94	20.00
	CP-OFDM QPSK	1	1	21.21	21.16	21.11	23.00
	CP-OFDM 16QAM	1	1	20.74	20.69	20.61	22.50
	CP-OFDM 64QAM	1	1	19.96	19.99	19.88	21.00
	CP-OFDM 256QAM	1	1	17.52	17.56	17.46	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	21.71	21.70	21.61	23.00
		1	104	21.72	21.72	21.68	23.00
		50	25	21.89	21.84	21.77	23.00
		100	0	21.75	21.74	21.65	23.00
	DFT-s-OFDM QPSK	1	1	21.70	21.70	21.62	23.00
		1	104	21.43	21.37	21.31	23.00
		50	25	21.72	21.78	21.70	23.00
		100	0	21.21	21.26	21.19	23.00
	DFT-s-OFDM 16QAM	1	1	21.25	21.26	21.23	23.00
		1	104	21.87	21.56	21.50	23.00
		50	25	21.15	21.10	21.05	23.00
	DFT-s-OFDM 64QAM	1	1	20.39	20.33	20.25	22.00
		1	104	21.12	20.02	21.00	22.00
		50	25	20.14	20.14	20.06	22.00
	DFT-s-OFDM 256QAM	1	1	19.53	19.44	19.37	20.00
		1	104	19.21	19.12	19.09	20.00
		50	25	18.99	18.96	18.89	20.00
	CP-OFDM QPSK	1	1	21.15	21.10	21.05	23.00
	CP-OFDM 16QAM	1	1	20.68	20.62	20.54	22.50
	CP-OFDM 64QAM	1	1	19.91	19.90	19.81	21.00
	CP-OFDM 256QAM	1	1	17.47	17.47	17.39	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	21.73	21.77	21.63	23.00
		1	131	21.72	21.72	21.69	23.00
		64	32	21.92	21.86	21.81	23.00
		128	0	21.77	21.78	21.68	23.00
	DFT-s-OFDM QPSK	1	1	21.72	21.74	21.65	23.00
		1	131	21.47	21.41	21.34	23.00
		64	32	21.73	21.85	21.75	23.00
		128	0	21.22	21.29	21.24	23.00
	DFT-s-OFDM 16QAM	1	1	21.26	21.27	21.26	23.00
		1	131	21.97	21.93	22.00	23.00
		64	32	21.18	21.11	21.07	23.00
	DFT-s-OFDM 64QAM	1	1	20.43	20.36	20.29	22.00
		1	131	20.90	21.09	21.03	22.00
		64	32	20.16	20.18	20.09	22.00
	DFT-s-OFDM 256QAM	1	1	19.58	19.51	19.42	20.00
		1	131	19.24	19.17	19.12	20.00
		64	32	19.05	19.01	18.91	20.00
	CP-OFDM QPSK	1	1	21.18	21.11	21.11	23.00
	CP-OFDM 16QAM	1	1	20.72	20.65	20.58	22.50
	CP-OFDM 64QAM	1	1	19.93	19.94	19.84	21.00
	CP-OFDM 256QAM	1	1	17.49	17.51	17.42	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	21.68	21.68	21.57	23.00
		1	160	21.70	21.68	21.65	23.00
		81	40	21.86	21.79	21.73	23.00
		162	0	21.72	21.69	21.61	23.00
	DFT-s-OFDM QPSK	1	1	21.68	21.66	21.57	23.00
		1	160	21.41	21.35	21.27	23.00
		81	40	21.72	21.77	21.68	23.00
		162	0	21.21	21.22	21.16	23.00
	DFT-s-OFDM 16QAM	1	1	21.25	21.24	21.20	23.00
		1	160	22.07	21.87	21.90	23.00
		81	40	21.13	21.06	21.02	23.00
	DFT-s-OFDM 64QAM	1	1	20.36	20.28	20.21	22.00
		1	160	21.02	21.00	21.13	22.00
		81	40	20.12	20.10	20.01	22.00

	DFT-s-OFDM 256QAM	1	1	19.50	19.44	19.34	20.00
		1	160	19.18	19.14	19.06	20.00
		81	40	19.00	18.94	18.85	20.00
	CP-OFDM QPSK	1	1	21.13	21.06	21.06	23.00
	CP-OFDM 16QAM	1	1	20.65	20.57	21.00	22.50
	CP-OFDM 64QAM	1	1	19.88	19.85	19.77	21.00
	CP-OFDM 256QAM	1	1	17.45	17.43	17.34	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	21.70	21.69	21.60	23.00
		1	187	21.73	21.73	21.69	23.00
		92	45	21.88	21.83	21.76	23.00
		180	0	21.75	21.74	21.65	23.00
	DFT-s-OFDM QPSK	1	1	21.71	21.71	21.61	23.00
		1	187	21.43	21.39	21.32	23.00
		92	45	21.76	21.79	21.72	23.00
		180	0	21.25	21.25	21.18	23.00
	DFT-s-OFDM 16QAM	1	1	21.29	21.28	21.23	23.00
		1	187	22.05	21.80	22.00	23.00
		92	46	21.16	21.11	21.06	23.00
	DFT-s-OFDM 64QAM	1	1	20.38	20.32	20.24	22.00
		1	187	21.28	21.08	20.02	22.00
		92	46	20.15	20.15	20.05	22.00
	DFT-s-OFDM 256QAM	1	1	19.52	19.43	19.36	20.00
		1	187	19.21	19.14	19.09	20.00
		92	46	18.99	18.96	18.88	20.00
	CP-OFDM QPSK	1	1	21.16	21.11	21.06	23.00
	CP-OFDM 16QAM	1	1	20.67	20.61	20.53	22.50
	CP-OFDM 64QAM	1	1	19.91	19.90	19.81	21.00
	CP-OFDM 256QAM	1	1	17.48	17.48	17.38	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	21.76	21.79	21.67	23.00
		1	215	21.74	21.76	21.72	23.00
		108	54	21.95	21.91	21.85	23.00

		216	0	21.80	21.83	21.72	23.00
	DFT-s-OFDM QPSK	1	1	21.74	21.78	21.70	23.00
		1	215	21.49	21.43	21.38	23.00
		108	54	21.73	21.86	21.77	23.00
		216	0	21.22	21.33	21.27	23.00
	DFT-s-OFDM 16QAM	1	1	21.26	21.29	21.29	23.00
		1	215	21.76	22.01	21.87	23.00
		108	54	21.20	21.15	21.10	23.00
	DFT-s-OFDM 64QAM	1	1	20.46	20.41	20.33	22.00
		1	215	20.98	20.90	20.97	22.00
		108	54	20.18	20.22	20.14	22.00
	DFT-s-OFDM 256QAM	1	1	19.61	19.51	19.45	20.00
		1	215	19.27	19.15	19.15	20.00
		108	54	19.04	19.03	18.95	20.00
	CP-OFDM QPSK	1	1	21.20	21.15	21.10	23.00
	CP-OFDM 16QAM	1	1	20.75	20.70	20.62	22.50
	CP-OFDM 64QAM	1	1	19.96	19.99	19.88	21.00
	CP-OFDM 256QAM	1	1	17.51	17.55	17.47	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	21.69	21.65	21.58	23.00
		1	243	21.71	21.72	21.66	23.00
		120	60	21.85	21.78	21.72	23.00
		243	0	21.73	21.70	21.62	23.00
	DFT-s-OFDM QPSK	1	1	21.68	21.66	21.57	23.00
		1	243	21.40	21.36	21.28	23.00
		120	60	21.74	21.75	21.67	23.00
		243	0	21.23	21.23	21.16	23.00
	DFT-s-OFDM 16QAM	1	1	21.27	21.25	21.21	23.00
		1	243	21.79	22.00	21.86	23.00
		120	60	21.13	21.09	21.03	23.00
		243	0	21.23	21.23	21.16	23.00
	DFT-s-OFDM 64QAM	1	1	20.35	20.27	20.20	22.00
		1	243	21.34	21.00	21.23	22.00
		120	60	20.12	20.10	20.01	22.00
		243	0	20.12	20.10	20.01	22.00
	DFT-s-OFDM 256QAM	1	1	19.47	19.41	19.34	20.00
		1	243	19.19	19.11	19.07	20.00
		120	60	19.00	18.95	18.89	20.00
	CP-OFDM QPSK	1	1	21.15	21.13	21.07	23.00

	CP-OFDM 16QAM	1	1	20.65	20.58	20.52	22.50
	CP-OFDM 64QAM	1	1	19.89	19.86	19.78	21.00
	CP-OFDM 256QAM	1	1	17.45	17.43	17.34	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	21.46	/	23.00
		1	271	/	21.60	/	23.00
		135	67	/	21.62	/	23.00
		270	0	/	21.49	/	23.00
	DFT-s-OFDM QPSK	1	1	/	21.46	/	23.00
		1	271	/	21.18	/	23.00
		135	67	/	21.55	/	23.00
		270	0	/	21.04	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.14	/	23.00
		1	271	/	21.10	/	23.00
		135	67	/	22.00	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	20.09	/	22.00
		1	271	/	20.40	/	22.00
		135	67	/	21.00	/	22.00
	DFT-s-OFDM 256QAM	1	1	/	19.22	/	20.00
		1	271	/	19.00	/	20.00
		135	67	/	18.76	/	20.00
	CP-OFDM QPSK	1	1	/	22.00	/	23.00
	CP-OFDM 16QAM	1	1	/	21.50	/	22.50
	CP-OFDM 64QAM	1	1	/	19.65	/	21.00
	CP-OFDM 256QAM	1	1	/	17.23	/	18.00

NR n78 PC2							
Receiver off-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	18.31	18.45	18.24	19.40
		1	49	18.48	18.56	18.48	19.40
		25	12	18.42	18.52	18.39	19.40
		50	0	18.39	18.54	18.34	19.40
	DFT-s-OFDM	1	1	18.20	18.36	18.20	19.40

	QPSK	1	49	18.52	18.59	18.48	19.40
		25	12	18.28	18.49	18.32	19.40
		50	0	18.25	18.45	18.32	19.40
	DFT-s-OFDM 16QAM	1	1	17.98	18.08	18.05	19.40
		1	49	18.39	18.49	18.34	19.40
		25	12	18.36	18.41	18.31	19.40
	DFT-s-OFDM 64QAM	1	1	18.17	18.27	18.11	19.40
		1	49	18.37	18.52	18.32	19.40
		25	12	18.39	18.55	18.39	19.40
	DFT-s-OFDM 256QAM	1	1	18.32	18.38	18.25	19.40
		1	49	18.56	18.56	18.53	19.40
		25	12	18.41	18.51	18.36	19.40
	CP-OFDM QPSK	1	1	18.18	18.23	18.13	19.40
	CP-OFDM 16QAM	1	1	18.19	18.29	18.13	19.40
	CP-OFDM 64QAM	1	1	18.46	18.61	18.41	19.40
	CP-OFDM 256QAM	1	1	17.44	17.60	17.44	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	18.28	18.43	18.20	19.40
		1	76	18.46	18.52	18.45	19.40
		36	18	18.39	18.47	18.35	19.40
		75	0	18.36	18.49	18.30	19.40
	DFT-s-OFDM QPSK	1	1	18.18	18.32	18.15	19.40
		1	76	18.50	18.57	18.44	19.40
		36	18	18.28	18.48	18.30	19.40
		75	0	18.25	18.41	18.29	19.40
	DFT-s-OFDM 16QAM	1	1	17.98	18.06	18.02	19.40
		1	76	18.36	18.47	18.30	19.40
		36	18	18.34	18.37	18.28	19.40
	DFT-s-OFDM 64QAM	1	1	18.14	18.22	18.07	19.40
		1	76	18.34	18.47	18.28	19.40
		36	18	18.37	18.51	18.34	19.40
	DFT-s-OFDM 256QAM	1	1	18.29	18.38	18.22	19.40
		1	76	18.53	18.58	18.50	19.40
		36	18	18.42	18.49	18.32	19.40
	CP-OFDM QPSK	1	1	18.16	18.19	18.14	19.40
	CP-OFDM 16QAM	1	1	18.16	18.24	18.09	19.40

	CP-OFDM 64QAM	1	1	18.43	18.56	18.37	19.40
	CP-OFDM 256QAM	1	1	17.42	17.56	17.39	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	18.30	18.44	18.23	19.40
		1	104	18.49	18.57	18.49	19.40
		50	25	18.41	18.51	18.38	19.40
		100	0	18.39	18.54	18.34	19.40
	DFT-s-OFDM QPSK	1	1	18.21	18.37	18.19	19.40
		1	104	18.52	18.61	18.49	19.40
		50	25	18.32	18.50	18.34	19.40
		100	0	18.29	18.44	18.31	19.40
	DFT-s-OFDM 16QAM	1	1	18.02	18.10	18.05	19.40
		1	104	18.39	18.49	18.33	19.40
		50	25	18.37	18.42	18.32	19.40
	DFT-s-OFDM 64QAM	1	1	18.16	18.26	18.10	19.40
		1	104	18.37	18.52	18.32	19.40
		50	25	18.40	18.56	18.38	19.40
	DFT-s-OFDM 256QAM	1	1	18.31	18.37	18.24	19.40
		1	104	18.56	18.58	18.53	19.40
		50	25	18.41	18.51	18.35	19.40
	CP-OFDM QPSK	1	1	18.19	18.24	18.14	19.40
	CP-OFDM 16QAM	1	1	18.18	18.28	18.12	19.40
	CP-OFDM 64QAM	1	1	18.46	18.61	18.41	19.40
	CP-OFDM 256QAM	1	1	17.45	17.61	17.43	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	18.29	18.40	18.21	19.40
		1	131	18.47	18.56	18.46	19.40
		64	32	18.38	18.46	18.34	19.40
		128	0	18.37	18.50	18.31	19.40
	DFT-s-OFDM QPSK	1	1	18.18	18.32	18.15	19.40
		1	131	18.49	18.58	18.45	19.40
		64	32	18.30	18.46	18.29	19.40
		128	0	18.27	18.42	18.29	19.40
	DFT-s-OFDM 16QAM	1	1	18.00	18.07	18.03	19.40
		1	131	18.37	18.45	18.30	19.40

		64	32	18.34	18.40	18.29	19.40
	DFT-s-OFDM 64QAM	1	1	18.13	18.21	18.06	19.40
		1	131	18.35	18.48	18.29	19.40
		64	32	18.37	18.51	18.34	19.40
	DFT-s-OFDM 256QAM	1	1	18.26	18.35	18.22	19.40
		1	131	18.54	18.55	18.51	19.40
		64	32	18.42	18.50	18.36	19.40
	CP-OFDM QPSK	1	1	18.18	18.26	18.15	19.40
	CP-OFDM 16QAM	1	1	18.16	18.25	18.11	19.40
	CP-OFDM 64QAM	1	1	18.44	18.57	18.38	19.40
	CP-OFDM 256QAM	1	1	17.42	17.56	17.39	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	18.26	18.36	18.18	19.40
		1	160	18.46	18.52	18.44	19.40
		81	40	18.36	18.45	18.31	19.40
		162	0	18.34	18.45	18.27	19.40
	DFT-s-OFDM QPSK	1	1	18.16	18.28	18.12	19.40
		1	160	18.46	18.53	18.41	19.40
		81	40	18.27	18.41	18.25	19.40
		162	0	18.24	18.38	18.24	19.40
	DFT-s-OFDM 16QAM	1	1	17.97	18.05	17.99	19.40
		1	160	18.34	18.42	18.28	19.40
		81	40	18.31	18.36	18.26	19.40
	DFT-s-OFDM 64QAM	1	1	18.10	18.19	18.03	19.40
		1	160	18.32	18.43	18.25	19.40
		81	40	18.35	18.47	18.31	19.40
	DFT-s-OFDM 256QAM	1	1	18.24	18.31	18.17	19.40
		1	160	18.50	18.53	18.47	19.40
		81	40	18.36	18.44	18.30	19.40
	CP-OFDM QPSK	1	1	18.13	18.18	18.08	19.40
	CP-OFDM 16QAM	1	1	18.12	18.21	18.05	19.40
	CP-OFDM 64QAM	1	1	18.41	18.52	18.34	19.40
	CP-OFDM 256QAM	1	1	17.40	17.52	17.36	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	18.23	18.34	18.14	19.40
		1	187	18.44	18.48	18.41	19.40
		92	45	18.33	18.40	18.27	19.40
		180	0	18.31	18.40	18.23	19.40
	DFT-s-OFDM QPSK	1	1	18.14	18.24	18.07	19.40
		1	187	18.44	18.51	18.37	19.40
		92	45	18.27	18.40	18.23	19.40
		180	0	18.24	18.34	18.21	19.40
	DFT-s-OFDM 16QAM	1	1	17.97	18.03	17.96	19.40
		1	187	18.31	18.40	18.24	19.40
		92	46	18.29	18.32	18.23	19.40
	DFT-s-OFDM 64QAM	1	1	18.07	18.14	17.99	19.40
		1	187	18.29	18.38	18.21	19.40
		92	46	18.33	18.43	18.26	19.40
	DFT-s-OFDM 256QAM	1	1	18.21	18.31	18.14	19.40
		1	187	18.47	18.55	18.44	19.40
		92	46	18.37	18.42	18.26	19.40
	CP-OFDM QPSK	1	1	18.11	18.14	18.09	19.40
	CP-OFDM 16QAM	1	1	18.09	18.16	18.01	19.40
	CP-OFDM 64QAM	1	1	18.38	18.47	18.30	19.40
	CP-OFDM 256QAM	1	1	17.38	17.48	17.31	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	18.25	18.35	18.17	19.40
		1	215	18.47	18.53	18.45	19.40
		108	54	18.35	18.44	18.30	19.40
		216	0	18.34	18.45	18.27	19.40
	DFT-s-OFDM QPSK	1	1	18.17	18.29	18.11	19.40
		1	215	18.46	18.55	18.42	19.40
		108	54	18.31	18.42	18.27	19.40
		216	0	18.28	18.37	18.23	19.40
	DFT-s-OFDM 16QAM	1	1	18.01	18.07	17.99	19.40
		1	215	18.34	18.42	18.27	19.40
		108	54	18.32	18.37	18.27	19.40
	DFT-s-OFDM 64QAM	1	1	18.09	18.18	18.02	19.40
		1	215	18.32	18.43	18.25	19.40
		108	54	18.36	18.48	18.30	19.40

	DFT-s-OFDM 256QAM	1	1	18.23	18.30	18.16	19.40
		1	215	18.50	18.55	18.47	19.40
		108	54	18.36	18.44	18.29	19.40
	CP-OFDM QPSK	1	1	18.14	18.19	18.09	19.40
	CP-OFDM 16QAM	1	1	18.11	18.20	18.04	19.40
	CP-OFDM 64QAM	1	1	18.41	18.52	18.34	19.40
	CP-OFDM 256QAM	1	1	17.41	17.53	17.35	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	18.24	18.31	18.15	19.40
		1	243	18.45	18.52	18.42	19.40
		120	60	18.32	18.39	18.26	19.40
		243	0	18.32	18.41	18.24	19.40
	DFT-s-OFDM QPSK	1	1	18.14	18.24	18.07	19.40
		1	243	18.43	18.52	18.38	19.40
		120	60	18.29	18.38	18.22	19.40
		243	0	18.26	18.35	18.21	19.40
	DFT-s-OFDM 16QAM	1	1	17.99	18.04	17.97	19.40
		1	243	18.32	18.38	18.24	19.40
		120	60	18.29	18.35	18.24	19.40
	DFT-s-OFDM 64QAM	1	1	18.06	18.13	17.98	19.40
		1	243	18.30	18.39	18.22	19.40
		120	60	18.33	18.43	18.26	19.40
	DFT-s-OFDM 256QAM	1	1	18.18	18.28	18.14	19.40
		1	243	18.48	18.52	18.45	19.40
		120	60	18.37	18.43	18.30	19.40
	CP-OFDM QPSK	1	1	18.13	18.21	18.10	19.40
	CP-OFDM 16QAM	1	1	18.09	18.17	18.03	19.40
	CP-OFDM 64QAM	1	1	18.39	18.48	18.31	19.40
	CP-OFDM 256QAM	1	1	17.38	17.48	17.31	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	18.10	/	19.40
		1	271	/	18.40	/	19.40
		135	67	/	18.20	/	19.40

		270	0	/	18.18	/	19.40
	DFT-s-OFDM QPSK	1	1	/	18.02	/	19.40
		1	271	/	18.30	/	19.40
		135	67	/	18.17	/	19.40
		270	0	/	18.15	/	19.40
	DFT-s-OFDM 16QAM	1	1	/	17.92	/	19.40
		1	271	/	18.20	/	19.40
		135	67	/	18.18	/	19.40
	DFT-s-OFDM 64QAM	1	1	/	17.91	/	19.40
		1	271	/	18.16	/	19.40
		135	67	/	18.21	/	19.40
	DFT-s-OFDM 256QAM	1	1	/	18.04	/	19.40
		1	271	/	18.38	/	19.40
		135	67	/	18.18	/	19.40
	CP-OFDM QPSK	1	1	/	18.00	/	19.40
	CP-OFDM 16QAM	1	1	/	17.93	/	19.40
	CP-OFDM 64QAM	1	1	/	18.25	/	19.40
	CP-OFDM 256QAM	1	1	/	17.26	/	18.00

NR n78 PC2							
Hotspot on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	13.48	13.47	13.36	14.60
		1	49	13.75	13.76	13.74	14.60
		25	12	13.62	13.54	13.55	14.60
		50	0	13.63	13.62	13.55	14.60
	DFT-s-OFDM QPSK	1	1	13.47	13.45	13.40	14.60
		1	49	13.80	13.75	13.71	14.60
		25	12	13.55	13.57	13.48	14.60
		50	0	13.49	13.48	13.47	14.60
	DFT-s-OFDM 16QAM	1	1	13.15	13.10	13.14	14.60
		1	49	13.62	13.58	13.51	14.60
		25	12	13.54	13.50	13.48	14.60
	DFT-s-OFDM 64QAM	1	1	13.32	13.24	13.22	14.60
		1	49	13.63	13.62	13.55	14.60
		25	12	13.58	13.56	13.51	14.60
	DFT-s-OFDM 256QAM	1	1	13.57	13.50	13.45	14.60
		1	49	13.80	13.69	13.69	14.60

		25	12	13.60	13.56	13.50	14.60
	CP-OFDM QPSK	1	1	13.46	13.44	13.42	14.60
	CP-OFDM 16QAM	1	1	13.43	13.36	13.35	14.60
	CP-OFDM 64QAM	1	1	13.74	13.73	13.66	14.60
	CP-OFDM 256QAM	1	1	13.35	13.33	13.28	14.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	13.45	13.45	13.32	14.60
		1	76	13.73	13.72	13.71	14.60
		36	18	13.59	13.49	13.51	14.60
		75	0	13.60	13.57	13.51	14.60
	DFT-s-OFDM QPSK	1	1	13.45	13.41	13.35	14.60
		1	76	13.78	13.73	13.67	14.60
		36	18	13.55	13.56	13.46	14.60
		75	0	13.49	13.44	13.44	14.60
	DFT-s-OFDM 16QAM	1	1	13.15	13.08	13.11	14.60
		1	76	13.59	13.56	13.47	14.60
		36	18	13.52	13.46	13.45	14.60
	DFT-s-OFDM 64QAM	1	1	13.29	13.19	13.18	14.60
		1	76	13.60	13.57	13.51	14.60
		36	18	13.56	13.52	13.46	14.60
	DFT-s-OFDM 256QAM	1	1	13.54	13.50	13.42	14.60
		1	76	13.77	13.71	13.66	14.60
		36	18	13.61	13.54	13.46	14.60
	CP-OFDM QPSK	1	1	13.44	13.40	13.43	14.60
	CP-OFDM 16QAM	1	1	13.40	13.31	13.31	14.60
	CP-OFDM 64QAM	1	1	13.71	13.68	13.62	14.60
	CP-OFDM 256QAM	1	1	13.33	13.29	13.23	14.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	13.51	13.51	13.39	14.60
		1	104	13.76	13.80	13.76	14.60
		50	25	13.64	13.55	13.58	14.60
		100	0	13.66	13.67	13.59	14.60
	DFT-s-OFDM	1	1	13.49	13.49	13.43	14.60

	QPSK	1	104	13.83	13.80	13.75	14.60
		50	25	13.58	13.62	13.52	14.60
		100	0	13.52	13.52	13.52	14.60
	DFT-s-OFDM 16QAM	1	1	13.18	13.12	13.18	14.60
		1	104	13.65	13.61	13.53	14.60
		50	25	13.57	13.54	13.51	14.60
	DFT-s-OFDM 64QAM	1	1	13.35	13.26	13.25	14.60
		1	104	13.66	13.67	13.59	14.60
		50	25	13.60	13.60	13.54	14.60
	DFT-s-OFDM 256QAM	1	1	13.59	13.54	13.50	14.60
		1	104	13.84	13.71	13.73	14.60
		50	25	13.66	13.62	13.56	14.60
	CP-OFDM QPSK	1	1	13.51	13.52	13.49	14.60
	CP-OFDM 16QAM	1	1	13.47	13.40	13.41	14.60
	CP-OFDM 64QAM	1	1	13.77	13.78	13.70	14.60
	CP-OFDM 256QAM	1	1	13.37	13.37	13.31	14.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	13.47	13.46	13.35	14.60
		1	131	13.76	13.77	13.75	14.60
		64	32	13.61	13.53	13.54	14.60
		128	0	13.63	13.62	13.55	14.60
	DFT-s-OFDM QPSK	1	1	13.48	13.46	13.39	14.60
		1	131	13.80	13.77	13.72	14.60
		64	32	13.59	13.58	13.50	14.60
		128	0	13.53	13.47	13.46	14.60
	DFT-s-OFDM 16QAM	1	1	13.19	13.12	13.14	14.60
		1	131	13.62	13.58	13.50	14.60
		64	32	13.55	13.51	13.49	14.60
	DFT-s-OFDM 64QAM	1	1	13.31	13.23	13.21	14.60
		1	131	13.63	13.62	13.55	14.60
		64	32	13.59	13.57	13.50	14.60
	DFT-s-OFDM 256QAM	1	1	13.56	13.49	13.44	14.60
		1	131	13.80	13.71	13.69	14.60
		64	32	13.60	13.56	13.49	14.60
	CP-OFDM QPSK	1	1	13.47	13.45	13.43	14.60
	CP-OFDM 16QAM	1	1	13.42	13.35	13.34	14.60

	CP-OFDM 64QAM	1	1	13.74	13.73	13.66	14.60
	CP-OFDM 256QAM	1	1	13.36	13.34	13.27	14.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	13.52	13.55	13.41	14.60
		1	160	13.78	13.81	13.79	14.60
		81	40	13.67	13.60	13.62	14.60
		162	0	13.68	13.71	13.62	14.60
	DFT-s-OFDM QPSK	1	1	13.52	13.54	13.47	14.60
		1	160	13.86	13.83	13.79	14.60
		81	40	13.60	13.66	13.57	14.60
		162	0	13.54	13.54	13.54	14.60
	DFT-s-OFDM 16QAM	1	1	13.20	13.15	13.20	14.60
		1	160	13.67	13.65	13.56	14.60
		81	40	13.60	13.56	13.54	14.60
	DFT-s-OFDM 64QAM	1	1	13.38	13.31	13.29	14.60
		1	160	13.68	13.71	13.62	14.60
		81	40	13.63	13.65	13.58	14.60
	DFT-s-OFDM 256QAM	1	1	13.64	13.56	13.52	14.60
		1	160	13.86	13.74	13.75	14.60
		81	40	13.65	13.63	13.55	14.60
	CP-OFDM QPSK	1	1	13.52	13.50	13.48	14.60
	CP-OFDM 16QAM	1	1	13.49	13.43	13.42	14.60
	CP-OFDM 64QAM	1	1	13.79	13.82	13.73	14.60
	CP-OFDM 256QAM	1	1	13.40	13.42	13.35	14.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	13.50	13.54	13.38	14.60
		1	187	13.75	13.76	13.75	14.60
		92	45	13.65	13.56	13.59	14.60
		180	0	13.65	13.66	13.58	14.60
	DFT-s-OFDM QPSK	1	1	13.49	13.49	13.43	14.60
		1	187	13.84	13.79	13.74	14.60
		92	45	13.56	13.64	13.53	14.60
		180	0	13.50	13.51	13.52	14.60
	DFT-s-OFDM 16QAM	1	1	13.16	13.11	13.17	14.60
		1	187	13.64	13.63	13.53	14.60

		92	46	13.57	13.51	13.50	14.60
	DFT-s-OFDM 64QAM	1	1	13.36	13.27	13.26	14.60
		1	187	13.65	13.66	13.58	14.60
		92	46	13.60	13.60	13.54	14.60
	DFT-s-OFDM 256QAM	1	1	13.62	13.57	13.50	14.60
		1	187	13.83	13.74	13.72	14.60
		92	46	13.66	13.61	13.52	14.60
	CP-OFDM QPSK	1	1	13.49	13.45	13.48	14.60
	CP-OFDM 16QAM	1	1	13.47	13.39	13.39	14.60
	CP-OFDM 64QAM	1	1	13.76	13.77	13.69	14.60
	CP-OFDM 256QAM	1	1	13.37	13.37	13.31	14.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	13.46	13.42	13.33	14.60
		1	215	13.74	13.76	13.72	14.60
		108	54	13.58	13.48	13.50	14.60
		216	0	13.61	13.58	13.52	14.60
	DFT-s-OFDM QPSK	1	1	13.45	13.41	13.35	14.60
		1	215	13.77	13.74	13.68	14.60
		108	54	13.57	13.54	13.45	14.60
		216	0	13.51	13.45	13.44	14.60
	DFT-s-OFDM 16QAM	1	1	13.17	13.09	13.12	14.60
		1	215	13.60	13.54	13.47	14.60
		108	54	13.52	13.49	13.46	14.60
	DFT-s-OFDM 64QAM	1	1	13.28	13.18	13.17	14.60
		1	215	13.61	13.58	13.52	14.60
		108	54	13.56	13.52	13.46	14.60
	DFT-s-OFDM 256QAM	1	1	13.51	13.47	13.42	14.60
		1	215	13.78	13.68	13.67	14.60
		108	54	13.61	13.55	13.50	14.60
	CP-OFDM QPSK	1	1	13.46	13.47	13.44	14.60
	CP-OFDM 16QAM	1	1	13.40	13.32	13.33	14.60
	CP-OFDM 64QAM	1	1	13.72	13.69	13.63	14.60
	CP-OFDM 256QAM	1	1	13.33	13.29	13.23	14.60

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	13.43	13.38	13.30	14.60
		1	243	13.73	13.72	13.70	14.60
		120	60	13.56	13.47	13.47	14.60
		243	0	13.58	13.53	13.48	14.60
	DFT-s-OFDM QPSK	1	1	13.43	13.37	13.32	14.60
		1	243	13.74	13.69	13.64	14.60
		120	60	13.54	13.49	13.41	14.60
		243	0	13.48	13.41	13.39	14.60
	DFT-s-OFDM 16QAM	1	1	13.14	13.07	13.08	14.60
		1	243	13.57	13.51	13.45	14.60
		120	60	13.49	13.45	13.43	14.60
	DFT-s-OFDM 64QAM	1	1	13.25	13.16	13.14	14.60
		1	243	13.58	13.53	13.48	14.60
		120	60	13.54	13.48	13.43	14.60
	DFT-s-OFDM 256QAM	1	1	13.49	13.43	13.37	14.60
		1	243	13.74	13.66	13.63	14.60
		120	60	13.55	13.49	13.44	14.60
	CP-OFDM QPSK	1	1	13.41	13.39	13.37	14.60
	CP-OFDM 16QAM	1	1	13.36	13.28	13.27	14.60
	CP-OFDM 64QAM	1	1	13.69	13.64	13.59	14.60
	CP-OFDM 256QAM	1	1	13.31	13.25	13.20	14.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	13.22	/	14.60
		1	271	/	13.66	/	14.60
		135	67	/	13.38	/	14.60
		270	0	/	13.39	/	14.60
	DFT-s-OFDM QPSK	1	1	/	13.25	/	14.60
		1	271	/	13.54	/	14.60
		135	67	/	13.36	/	14.60
		270	0	/	13.33	/	14.60
	DFT-s-OFDM 16QAM	1	1	/	13.03	/	14.60
		1	271	/	13.38	/	14.60
		135	67	/	13.35	/	14.60
	DFT-s-OFDM 64QAM	1	1	/	13.04	/	14.60
		1	271	/	13.39	/	14.60
		135	67	/	13.36	/	14.60

	DFT-s-OFDM 256QAM	1	1	/	13.24	/	14.60
		1	271	/	13.53	/	14.60
		135	67	/	13.33	/	14.60
	CP-OFDM QPSK	1	1	/	13.25	/	14.60
	CP-OFDM 16QAM	1	1	/	13.14	/	14.60
	CP-OFDM 64QAM	1	1	/	13.50	/	14.60
	CP-OFDM 256QAM	1	1	/	13.13	/	14.60

NR n78 PC3							
Receiver on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	16.06	16.05	15.94	17.30
		1	49	15.99	16.00	15.98	17.30
		25	12	16.06	15.98	15.99	17.30
		50	0	16.06	16.05	15.98	17.30
	DFT-s-OFDM QPSK	1	1	15.99	15.97	15.92	17.30
		1	49	16.19	16.14	16.10	17.30
		25	12	15.98	16.00	15.91	17.30
		50	0	15.96	15.95	15.94	17.30
	DFT-s-OFDM 16QAM	1	1	16.00	15.95	15.99	17.30
		1	49	16.24	16.20	16.13	17.30
		25	12	15.96	15.92	15.90	17.30
	DFT-s-OFDM 64QAM	1	1	16.04	15.96	15.94	17.30
		1	49	16.12	16.11	16.04	17.30
		25	12	16.02	16.00	15.95	17.30
	DFT-s-OFDM 256QAM	1	1	16.06	15.99	15.94	17.30
		1	49	16.12	16.01	16.01	17.30
		25	12	16.08	16.04	15.98	17.30
	CP-OFDM QPSK	1	1	15.86	15.84	15.82	17.30
	CP-OFDM 16QAM	1	1	16.02	15.95	15.94	17.30
	CP-OFDM 64QAM	1	1	16.18	16.17	16.10	17.30
	CP-OFDM 256QAM	1	1	15.78	15.76	15.71	17.30

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	16.03	16.01	15.91	17.30
		1	76	15.98	15.96	15.96	17.30
		36	18	16.04	15.97	15.96	17.30
		75	0	16.03	16.00	15.94	17.30
	DFT-s-OFDM QPSK	1	1	15.97	15.93	15.89	17.30
		1	76	16.16	16.09	16.06	17.30
		36	18	15.95	15.95	15.87	17.30
		75	0	15.93	15.91	15.89	17.30
	DFT-s-OFDM 16QAM	1	1	15.97	15.93	15.95	17.30
		1	76	16.21	16.17	16.11	17.30
		36	18	15.93	15.88	15.87	17.30
	DFT-s-OFDM 64QAM	1	1	16.01	15.94	15.91	17.30
		1	76	16.09	16.06	16.00	17.30
		36	18	16.00	15.96	15.92	17.30
	DFT-s-OFDM 256QAM	1	1	16.04	15.95	15.89	17.30
		1	76	16.08	15.99	15.97	17.30
		36	18	16.02	15.98	15.92	17.30
	CP-OFDM QPSK	1	1	15.81	15.76	15.75	17.30
	CP-OFDM 16QAM	1	1	15.98	15.91	15.88	17.30
	CP-OFDM 64QAM	1	1	16.15	16.12	16.06	17.30
	CP-OFDM 256QAM	1	1	15.76	15.72	15.68	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	16.07	16.09	15.96	17.30
		1	104	16.01	16.01	16.01	17.30
		50	25	16.09	16.03	16.03	17.30
		100	0	16.08	16.09	16.01	17.30
	DFT-s-OFDM QPSK	1	1	16.02	16.02	15.96	17.30
		1	104	16.22	16.17	16.14	17.30
		50	25	16.00	16.04	15.96	17.30
		100	0	15.98	15.97	15.96	17.30
	DFT-s-OFDM 16QAM	1	1	16.02	15.98	16.01	17.30
		1	104	16.26	16.24	16.16	17.30
		50	25	15.99	15.94	15.93	17.30
	DFT-s-OFDM 64QAM	1	1	16.07	16.01	15.98	17.30
		1	104	16.14	16.15	16.07	17.30
		50	25	16.05	16.05	15.99	17.30

	DFT-s-OFDM 256QAM	1	1	16.11	16.01	15.96	17.30
		1	104	16.14	16.04	16.03	17.30
		50	25	16.07	16.05	15.97	17.30
	CP-OFDM QPSK	1	1	15.87	15.82	15.81	17.30
	CP-OFDM 16QAM	1	1	16.04	15.98	15.95	17.30
	CP-OFDM 64QAM	1	1	16.20	16.21	16.13	17.30
	CP-OFDM 256QAM	1	1	15.81	15.81	15.75	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	16.00	15.99	15.87	17.30
		1	131	15.96	15.92	15.93	17.30
		64	32	16.01	15.92	15.92	17.30
		128	0	16.00	15.95	15.90	17.30
	DFT-s-OFDM QPSK	1	1	15.95	15.89	15.84	17.30
		1	131	16.14	16.07	16.02	17.30
		64	32	15.95	15.94	15.85	17.30
		128	0	15.93	15.87	15.86	17.30
	DFT-s-OFDM 16QAM	1	1	15.97	15.91	15.92	17.30
		1	131	16.18	16.15	16.07	17.30
		64	32	15.91	15.84	15.84	17.30
	DFT-s-OFDM 64QAM	1	1	15.98	15.89	15.87	17.30
		1	131	16.06	16.01	15.96	17.30
		64	32	15.98	15.92	15.87	17.30
	DFT-s-OFDM 256QAM	1	1	16.01	15.95	15.86	17.30
		1	131	16.05	16.01	15.94	17.30
		64	32	16.03	15.96	15.88	17.30
	CP-OFDM QPSK	1	1	15.79	15.72	15.76	17.30
	CP-OFDM 16QAM	1	1	15.95	15.86	15.84	17.30
	CP-OFDM 64QAM	1	1	16.12	16.07	16.02	17.30
	CP-OFDM 256QAM	1	1	15.74	15.68	15.63	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	16.05	16.08	15.93	17.30
		1	160	15.98	15.96	15.97	17.30
		81	40	16.07	15.99	16.00	17.30

		162	0	16.05	16.04	15.97	17.30
	DFT-s-OFDM QPSK	1	1	15.99	15.97	15.92	17.30
		1	160	16.20	16.13	16.09	17.30
		81	40	15.96	16.02	15.92	17.30
		162	0	15.94	15.94	15.94	17.30
	DFT-s-OFDM 16QAM	1	1	15.98	15.94	15.98	17.30
		1	160	16.23	16.22	16.13	17.30
		81	40	15.96	15.89	15.89	17.30
	DFT-s-OFDM 64QAM	1	1	16.05	15.97	15.95	17.30
		1	160	16.11	16.10	16.03	17.30
		81	40	16.02	16.00	15.95	17.30
	DFT-s-OFDM 256QAM	1	1	16.09	16.02	15.94	17.30
		1	160	16.11	16.04	16.00	17.30
		81	40	16.08	16.03	15.94	17.30
	CP-OFDM QPSK	1	1	15.84	15.77	15.81	17.30
	CP-OFDM 16QAM	1	1	16.02	15.94	15.92	17.30
	CP-OFDM 64QAM	1	1	16.17	16.16	16.09	17.30
	CP-OFDM 256QAM	1	1	15.78	15.76	15.71	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	16.08	16.10	15.97	17.30
		1	187	16.00	16.00	16.00	17.30
		92	45	16.10	16.04	16.04	17.30
		180	0	16.08	16.09	16.01	17.30
	DFT-s-OFDM QPSK	1	1	16.01	16.01	15.97	17.30
		1	187	16.22	16.15	16.13	17.30
		92	45	15.96	16.03	15.94	17.30
		180	0	15.94	15.98	15.97	17.30
	DFT-s-OFDM 16QAM	1	1	15.98	15.96	16.01	17.30
		1	187	16.26	16.24	16.17	17.30
		92	46	15.98	15.93	15.92	17.30
		1	1	16.08	16.02	15.99	17.30
	DFT-s-OFDM 64QAM	1	187	16.14	16.15	16.07	17.30
		92	46	16.04	16.04	16.00	17.30
		1	1	16.12	16.02	15.97	17.30
		1	187	16.14	16.02	16.03	17.30
		92	46	16.07	16.05	15.98	17.30
	CP-OFDM QPSK	1	1	15.86	15.81	15.80	17.30

	CP-OFDM 16QAM	1	1	16.05	15.99	15.96	17.30
	CP-OFDM 64QAM	1	1	16.20	16.21	16.13	17.30
	CP-OFDM 256QAM	1	1	15.80	15.80	15.76	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	16.02	16.00	15.90	17.30
		1	215	15.99	15.97	15.97	17.30
		108	54	16.03	15.96	15.95	17.30
		216	0	16.03	16.00	15.94	17.30
	DFT-s-OFDM QPSK	1	1	15.98	15.94	15.88	17.30
		1	215	16.16	16.11	16.07	17.30
		108	54	15.99	15.96	15.89	17.30
		216	0	15.97	15.90	15.88	17.30
	DFT-s-OFDM 16QAM	1	1	16.01	15.95	15.95	17.30
		1	215	16.21	16.17	16.10	17.30
		108	54	15.94	15.89	15.88	17.30
	DFT-s-OFDM 64QAM	1	1	16.00	15.93	15.90	17.30
		1	215	16.09	16.06	16.00	17.30
		108	54	16.01	15.97	15.91	17.30
	DFT-s-OFDM 256QAM	1	1	16.03	15.94	15.88	17.30
		1	215	16.08	16.01	15.97	17.30
		108	54	16.02	15.98	15.91	17.30
	CP-OFDM QPSK	1	1	15.82	15.77	15.76	17.30
	CP-OFDM 16QAM	1	1	15.97	15.90	15.87	17.30
	CP-OFDM 64QAM	1	1	16.15	16.12	16.06	17.30
	CP-OFDM 256QAM	1	1	15.77	15.73	15.67	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	16.01	15.96	15.88	17.30
		1	243	15.97	15.96	15.94	17.30
		120	60	16.00	15.91	15.91	17.30
		243	0	16.01	15.96	15.91	17.30
	DFT-s-OFDM QPSK	1	1	15.95	15.89	15.84	17.30
		1	243	16.13	16.08	16.03	17.30
		120	60	15.97	15.92	15.84	17.30
		243	0	15.95	15.88	15.86	17.30

	DFT-s-OFDM 16QAM	1	1	15.99	15.92	15.93	17.30
		1	243	16.19	16.13	16.07	17.30
		120	60	15.91	15.87	15.85	17.30
	DFT-s-OFDM 64QAM	1	1	15.97	15.88	15.86	17.30
		1	243	16.07	16.02	15.97	17.30
		120	60	15.98	15.92	15.87	17.30
	DFT-s-OFDM 256QAM	1	1	15.98	15.92	15.86	17.30
		1	243	16.06	15.98	15.95	17.30
		120	60	16.03	15.97	15.92	17.30
	CP-OFDM QPSK	1	1	15.81	15.79	15.77	17.30
	CP-OFDM 16QAM	1	1	15.95	15.87	15.86	17.30
	CP-OFDM 64QAM	1	1	16.13	16.08	16.03	17.30
	CP-OFDM 256QAM	1	1	15.74	15.68	15.63	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	15.80	/	17.30
		1	271	/	15.90	/	17.30
		135	67	/	15.82	/	17.30
		270	0	/	15.82	/	17.30
	DFT-s-OFDM QPSK	1	1	/	15.77	/	17.30
		1	271	/	15.93	/	17.30
		135	67	/	15.79	/	17.30
		270	0	/	15.80	/	17.30
	DFT-s-OFDM 16QAM	1	1	/	15.88	/	17.30
		1	271	/	16.00	/	17.30
		135	67	/	15.77	/	17.30
	DFT-s-OFDM 64QAM	1	1	/	15.76	/	17.30
		1	271	/	15.88	/	17.30
		135	67	/	15.80	/	17.30
	DFT-s-OFDM 256QAM	1	1	/	15.73	/	17.30
		1	271	/	15.85	/	17.30
		135	67	/	15.81	/	17.30
	CP-OFDM QPSK	1	1	/	15.65	/	17.30
	CP-OFDM 16QAM	1	1	/	15.73	/	17.30
	CP-OFDM 64QAM	1	1	/	15.94	/	17.30
	CP-OFDM	1	1	/	15.56	/	17.30

	256QAM						

NR n78 PC3							
Receiver off-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	20.51	20.47	20.47	21.90
		1	49	20.55	20.53	20.55	21.90
		25	12	20.61	20.46	20.59	21.90
		50	0	20.59	20.52	20.57	21.90
	DFT-s-OFDM QPSK	1	1	20.47	20.40	20.45	21.90
		1	49	20.62	20.52	20.57	21.90
		25	12	20.63	20.62	20.64	21.90
		50	0	20.61	20.52	20.64	21.90
	DFT-s-OFDM 16QAM	1	1	20.62	20.48	20.61	21.90
		1	49	20.64	20.56	20.57	21.90
		25	12	20.65	20.53	20.58	21.90
	DFT-s-OFDM 64QAM	1	1	20.37	20.21	20.31	21.90
		1	49	20.54	20.47	20.52	21.90
		25	12	20.32	20.25	20.30	21.90
	DFT-s-OFDM 256QAM	1	1	18.33	18.24	18.32	20.00
		1	49	18.47	18.32	18.41	20.00
		25	12	18.45	18.29	18.36	20.00
	CP-OFDM QPSK	1	1	20.47	20.39	20.48	21.90
	CP-OFDM 16QAM	1	1	20.58	20.41	20.56	21.90
	CP-OFDM 64QAM	1	1	19.42	19.35	19.40	21.00
CP-OFDM 256QAM	1	1	16.23	16.16	16.21	18.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	20.48	20.43	20.44	21.90
		1	76	20.54	20.49	20.53	21.90
		36	18	20.59	20.45	20.56	21.90
		75	0	20.56	20.47	20.53	21.90
	DFT-s-OFDM QPSK	1	1	20.45	20.36	20.42	21.90
		1	76	20.59	20.47	20.53	21.90
		36	18	20.60	20.57	20.60	21.90
		75	0	20.58	20.48	20.59	21.90
	DFT-s-OFDM 16QAM	1	1	20.59	20.46	20.57	21.90
		1	76	20.61	20.53	20.55	21.90

		36	18	20.62	20.49	20.55	21.90
	DFT-s-OFDM 64QAM	1	1	20.34	20.19	20.28	21.90
		1	76	20.51	20.42	20.48	21.90
		36	18	20.30	20.21	20.27	21.90
	DFT-s-OFDM 256QAM	1	1	18.31	18.20	18.27	20.00
		1	76	18.43	18.30	18.37	20.00
		36	18	18.39	18.23	18.30	20.00
	CP-OFDM QPSK	1	1	20.42	20.31	20.41	21.90
	CP-OFDM 16QAM	1	1	20.54	20.37	20.50	21.90
	CP-OFDM 64QAM	1	1	19.39	19.30	19.36	21.00
	CP-OFDM 256QAM	1	1	16.21	16.12	16.18	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	20.52	20.51	20.49	21.90
		1	104	20.57	20.54	20.58	21.90
		50	25	20.64	20.51	20.63	21.90
		100	0	20.61	20.56	20.60	21.90
	DFT-s-OFDM QPSK	1	1	20.50	20.45	20.49	21.90
		1	104	20.65	20.55	20.61	21.90
		50	25	20.65	20.66	20.69	21.90
		100	0	20.63	20.54	20.66	21.90
	DFT-s-OFDM 16QAM	1	1	20.64	20.51	20.63	21.90
		1	104	20.66	20.60	20.60	21.90
		50	25	20.68	20.55	20.61	21.90
	DFT-s-OFDM 64QAM	1	1	20.40	20.26	20.35	21.90
		1	104	20.56	20.51	20.55	21.90
		50	25	20.35	20.30	20.34	21.90
	DFT-s-OFDM 256QAM	1	1	18.38	18.26	18.34	20.00
		1	104	18.49	18.35	18.43	20.00
		50	25	18.44	18.30	18.35	20.00
	CP-OFDM QPSK	1	1	20.48	20.37	20.47	21.90
	CP-OFDM 16QAM	1	1	20.60	20.44	20.57	21.90
	CP-OFDM 64QAM	1	1	19.44	19.39	19.43	21.00
	CP-OFDM 256QAM	1	1	16.26	16.21	16.25	18.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	20.48	20.43	20.44	21.90
		1	131	20.54	20.49	20.53	21.90
		64	32	20.59	20.45	20.56	21.90
		128	0	20.56	20.47	20.53	21.90
	DFT-s-OFDM QPSK	1	1	20.45	20.36	20.42	21.90
		1	131	20.59	20.47	20.53	21.90
		64	32	20.60	20.57	20.60	21.90
		128	0	20.58	20.48	20.59	21.90
	DFT-s-OFDM 16QAM	1	1	20.59	20.46	20.57	21.90
		1	131	20.61	20.53	20.55	21.90
		64	32	20.62	20.49	20.55	21.90
	DFT-s-OFDM 64QAM	1	1	20.34	20.19	20.28	21.90
		1	131	20.51	20.42	20.48	21.90
		64	32	20.30	20.21	20.27	21.90
	DFT-s-OFDM 256QAM	1	1	18.31	18.20	18.27	20.00
		1	131	18.43	18.30	18.37	20.00
		64	32	18.39	18.23	18.30	20.00
	CP-OFDM QPSK	1	1	20.42	20.31	20.41	21.90
	CP-OFDM 16QAM	1	1	20.54	20.37	20.50	21.90
	CP-OFDM 64QAM	1	1	19.39	19.30	19.36	21.00
	CP-OFDM 256QAM	1	1	16.21	16.12	16.18	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	20.50	20.44	20.47	21.90
		1	160	20.57	20.54	20.57	21.90
		81	40	20.61	20.49	20.59	21.90
		162	0	20.59	20.52	20.57	21.90
	DFT-s-OFDM QPSK	1	1	20.48	20.41	20.46	21.90
		1	160	20.61	20.51	20.58	21.90
		81	40	20.64	20.59	20.64	21.90
		162	0	20.62	20.51	20.61	21.90
	DFT-s-OFDM 16QAM	1	1	20.63	20.50	20.60	21.90
		1	160	20.64	20.55	20.58	21.90
		81	40	20.65	20.54	20.59	21.90
	DFT-s-OFDM 64QAM	1	1	20.36	20.23	20.31	21.90
		1	160	20.54	20.47	20.52	21.90
		81	40	20.33	20.26	20.31	21.90

	DFT-s-OFDM 256QAM	1	1	18.33	18.19	18.29	20.00
		1	160	18.46	18.30	18.40	20.00
		81	40	18.38	18.25	18.33	20.00
	CP-OFDM QPSK	1	1	20.45	20.36	20.41	21.90
	CP-OFDM 16QAM	1	1	20.56	20.41	20.53	21.90
	CP-OFDM 64QAM	1	1	19.42	19.35	19.40	21.00
	CP-OFDM 256QAM	1	1	16.24	16.17	16.22	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	20.50	20.50	20.46	21.90
		1	187	20.54	20.49	20.54	21.90
		92	45	20.62	20.47	20.60	21.90
		180	0	20.58	20.51	20.56	21.90
	DFT-s-OFDM QPSK	1	1	20.47	20.40	20.45	21.90
		1	187	20.63	20.51	20.56	21.90
		92	45	20.61	20.64	20.65	21.90
		180	0	20.59	20.51	20.64	21.90
	DFT-s-OFDM 16QAM	1	1	20.60	20.47	20.60	21.90
		1	187	20.63	20.58	20.57	21.90
		92	46	20.65	20.50	20.57	21.90
	DFT-s-OFDM 64QAM	1	1	20.38	20.22	20.32	21.90
		1	187	20.53	20.46	20.51	21.90
		92	46	20.32	20.25	20.30	21.90
	DFT-s-OFDM 256QAM	1	1	18.36	18.27	18.32	20.00
		1	187	18.46	18.35	18.40	20.00
		92	46	18.45	18.28	18.32	20.00
	CP-OFDM QPSK	1	1	20.45	20.32	20.47	21.90
	CP-OFDM 16QAM	1	1	20.58	20.40	20.54	21.90
	CP-OFDM 64QAM	1	1	19.41	19.34	19.39	21.00
	CP-OFDM 256QAM	1	1	16.23	16.16	16.21	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	20.53	20.52	20.50	21.90
		1	215	20.56	20.53	20.57	21.90
		108	54	20.65	20.52	20.64	21.90

		216	0	20.61	20.56	20.60	21.90
	DFT-s-OFDM QPSK	1	1	20.49	20.44	20.50	21.90
		1	215	20.65	20.53	20.60	21.90
		108	54	20.61	20.65	20.67	21.90
		216	0	20.59	20.55	20.67	21.90
	DFT-s-OFDM 16QAM	1	1	20.60	20.49	20.63	21.90
		1	215	20.66	20.60	20.61	21.90
		108	54	20.67	20.54	20.60	21.90
	DFT-s-OFDM 64QAM	1	1	20.41	20.27	20.36	21.90
		1	215	20.56	20.51	20.55	21.90
		108	54	20.34	20.29	20.35	21.90
	DFT-s-OFDM 256QAM	1	1	18.39	18.27	18.35	20.00
		1	215	18.49	18.33	18.43	20.00
		108	54	18.44	18.30	18.36	20.00
	CP-OFDM QPSK	1	1	20.47	20.36	20.46	21.90
	CP-OFDM 16QAM	1	1	20.61	20.45	20.58	21.90
	CP-OFDM 64QAM	1	1	19.44	19.39	19.43	21.00
	CP-OFDM 256QAM	1	1	16.25	16.20	16.26	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	20.46	20.36	20.42	21.90
		1	243	20.54	20.49	20.52	21.90
		120	60	20.56	20.43	20.52	21.90
		243	0	20.54	20.43	20.50	21.90
	DFT-s-OFDM QPSK	1	1	20.43	20.32	20.39	21.90
		1	243	20.55	20.43	20.50	21.90
		120	60	20.59	20.50	20.55	21.90
		243	0	20.57	20.45	20.54	21.90
	DFT-s-OFDM 16QAM	1	1	20.58	20.45	20.54	21.90
		1	243	20.59	20.48	20.53	21.90
		120	60	20.59	20.48	20.53	21.90
		1	1	20.30	20.16	20.24	21.90
	DFT-s-OFDM 64QAM	1	243	20.49	20.38	20.45	21.90
		120	60	20.28	20.17	20.24	21.90
		1	1	18.26	18.13	18.22	20.00
		1	243	18.40	18.25	18.34	20.00
		120	60	18.33	18.18	18.28	20.00
	CP-OFDM QPSK	1	1	20.39	20.30	20.35	21.90

	CP-OFDM 16QAM	1	1	20.50	20.34	20.46	21.90
	CP-OFDM 64QAM	1	1	19.37	19.26	19.33	21.00
	CP-OFDM 256QAM	1	1	16.19	16.08	16.15	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	20.30	/	21.90
		1	271	/	20.44	/	21.90
		135	67	/	20.38	/	21.90
		270	0	/	20.35	/	21.90
	DFT-s-OFDM QPSK	1	1	/	20.25	/	21.90
		1	271	/	20.35	/	21.90
		135	67	/	20.40	/	21.90
		270	0	/	20.36	/	21.90
	DFT-s-OFDM 16QAM	1	1	/	20.40	/	21.90
		1	271	/	20.43	/	21.90
		135	67	/	20.42	/	21.90
	DFT-s-OFDM 64QAM	1	1	/	20.10	/	21.90
		1	271	/	20.30	/	21.90
		135	67	/	20.10	/	21.90
	DFT-s-OFDM 256QAM	1	1	/	18.04	/	20.00
		1	271	/	18.20	/	20.00
		135	67	/	18.10	/	20.00
	CP-OFDM QPSK	1	1	/	20.16	/	21.90
	CP-OFDM 16QAM	1	1	/	20.26	/	21.90
	CP-OFDM 64QAM	1	1	/	19.18	/	21.00
	CP-OFDM 256QAM	1	1	/	16.01	/	18.00

NR n78 PC3							
Hotspot on&WWAN+WLAN Receiver on-Main Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	14.90	14.83	14.88	16.30
		1	49	14.95	14.94	14.96	16.30
		25	12	14.98	14.88	14.98	16.30
		50	0	15.01	14.94	15.00	16.30

	DFT-s-OFDM QPSK	1	1	14.95	14.90	14.97	16.30
		1	49	15.10	15.02	15.08	16.30
		25	12	14.92	14.89	14.95	16.30
		50	0	14.93	14.88	14.97	16.30
	DFT-s-OFDM 16QAM	1	1	14.96	14.90	14.98	16.30
		1	49	15.12	15.05	15.10	16.30
		25	12	14.89	14.82	14.86	16.30
	DFT-s-OFDM 64QAM	1	1	15.02	14.91	15.00	16.30
		1	49	15.19	15.12	15.18	16.30
		25	12	14.94	14.89	14.96	16.30
	DFT-s-OFDM 256QAM	1	1	14.95	14.84	14.93	16.30
		1	49	15.07	14.95	15.03	16.30
		25	12	15.08	14.97	15.03	16.30
	CP-OFDM QPSK	1	1	14.85	14.76	14.80	16.30
	CP-OFDM 16QAM	1	1	15.02	14.89	14.99	16.30
	CP-OFDM 64QAM	1	1	15.08	15.01	15.07	16.30
	CP-OFDM 256QAM	1	1	14.70	14.65	14.72	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	14.87	14.79	14.85	16.30
		1	76	14.94	14.90	14.94	16.30
		36	18	14.96	14.87	14.95	16.30
		75	0	14.98	14.89	14.96	16.30
	DFT-s-OFDM QPSK	1	1	14.93	14.86	14.94	16.30
		1	76	15.07	14.97	15.04	16.30
		36	18	14.89	14.84	14.91	16.30
		75	0	14.90	14.84	14.92	16.30
	DFT-s-OFDM 16QAM	1	1	14.93	14.88	14.94	16.30
		1	76	15.09	15.02	15.08	16.30
		36	18	14.86	14.78	14.83	16.30
	DFT-s-OFDM 64QAM	1	1	14.99	14.89	14.97	16.30
		1	76	15.16	15.07	15.14	16.30
		36	18	14.92	14.85	14.93	16.30
	DFT-s-OFDM 256QAM	1	1	14.93	14.80	14.88	16.30
		1	76	15.03	14.93	14.99	16.30
		36	18	15.02	14.91	14.97	16.30
	CP-OFDM QPSK	1	1	14.80	14.68	14.73	16.30
	CP-OFDM	1	1	14.98	14.85	14.93	16.30

	16QAM						
	CP-OFDM 64QAM	1	1	15.05	14.96	15.03	16.30
	CP-OFDM 256QAM	1	1	14.68	14.61	14.69	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	14.91	14.87	14.90	16.30
		1	104	14.97	14.95	14.99	16.30
		50	25	15.01	14.93	15.02	16.30
		100	0	15.03	14.98	15.03	16.30
	DFT-s-OFDM QPSK	1	1	14.98	14.95	15.01	16.30
		1	104	15.13	15.05	15.12	16.30
		50	25	14.94	14.93	15.00	16.30
		100	0	14.95	14.90	14.99	16.30
	DFT-s-OFDM 16QAM	1	1	14.98	14.93	15.00	16.30
		1	104	15.14	15.09	15.13	16.30
		50	25	14.92	14.84	14.89	16.30
	DFT-s-OFDM 64QAM	1	1	15.05	14.96	15.04	16.30
		1	104	15.21	15.16	15.21	16.30
		50	25	14.97	14.94	15.00	16.30
	DFT-s-OFDM 256QAM	1	1	15.00	14.86	14.95	16.30
		1	104	15.09	14.98	15.05	16.30
		50	25	15.07	14.98	15.02	16.30
	CP-OFDM QPSK	1	1	14.86	14.74	14.79	16.30
	CP-OFDM 16QAM	1	1	15.04	14.92	15.00	16.30
	CP-OFDM 64QAM	1	1	15.10	15.05	15.10	16.30
	CP-OFDM 256QAM	1	1	14.73	14.70	14.76	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	14.84	14.77	14.81	16.30
		1	131	14.92	14.86	14.91	16.30
		64	32	14.93	14.82	14.91	16.30
		128	0	14.95	14.84	14.92	16.30
	DFT-s-OFDM QPSK	1	1	14.91	14.82	14.89	16.30
		1	131	15.05	14.95	15.00	16.30
		64	32	14.89	14.83	14.89	16.30
		128	0	14.90	14.80	14.89	16.30
	DFT-s-OFDM	1	1	14.93	14.86	14.91	16.30

	16QAM	1	131	15.06	15.00	15.04	16.30
		64	32	14.84	14.74	14.80	16.30
	DFT-s-OFDM 64QAM	1	1	14.96	14.84	14.93	16.30
		1	131	15.13	15.02	15.10	16.30
		64	32	14.90	14.81	14.88	16.30
	DFT-s-OFDM 256QAM	1	1	14.90	14.80	14.85	16.30
		1	131	15.00	14.95	14.96	16.30
		64	32	15.03	14.89	14.93	16.30
	CP-OFDM QPSK	1	1	14.78	14.64	14.74	16.30
	CP-OFDM 16QAM	1	1	14.95	14.80	14.89	16.30
	CP-OFDM 64QAM	1	1	15.02	14.91	14.99	16.30
		1	1	14.66	14.57	14.64	16.30
	CP-OFDM 256QAM	1	1	14.66	14.57	14.64	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	14.89	14.86	14.87	16.30
		1	160	14.94	14.90	14.95	16.30
		81	40	14.99	14.89	14.99	16.30
		162	0	15.00	14.93	14.99	16.30
	DFT-s-OFDM QPSK	1	1	14.95	14.90	14.97	16.30
		1	160	15.11	15.01	15.07	16.30
		81	40	14.90	14.91	14.96	16.30
		162	0	14.91	14.87	14.97	16.30
	DFT-s-OFDM 16QAM	1	1	14.94	14.89	14.97	16.30
		1	160	15.11	15.07	15.10	16.30
		81	40	14.89	14.79	14.85	16.30
	DFT-s-OFDM 64QAM	1	1	15.03	14.92	15.01	16.30
		1	160	15.18	15.11	15.17	16.30
		81	40	14.94	14.89	14.96	16.30
	DFT-s-OFDM 256QAM	1	1	14.98	14.87	14.93	16.30
		1	160	15.06	14.98	15.02	16.30
		81	40	15.08	14.96	14.99	16.30
	CP-OFDM QPSK	1	1	14.83	14.69	14.79	16.30
	CP-OFDM 16QAM	1	1	15.02	14.88	14.97	16.30
	CP-OFDM 64QAM	1	1	15.07	15.00	15.06	16.30
	CP-OFDM 256QAM	1	1	14.70	14.65	14.72	16.30

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	14.92	14.88	14.91	16.30
		1	187	14.96	14.94	14.98	16.30
		92	45	15.02	14.94	15.03	16.30
		180	0	15.03	14.98	15.03	16.30
	DFT-s-OFDM QPSK	1	1	14.97	14.94	15.02	16.30
		1	187	15.13	15.03	15.11	16.30
		92	45	14.90	14.92	14.98	16.30
		180	0	14.91	14.91	15.00	16.30
	DFT-s-OFDM 16QAM	1	1	14.94	14.91	15.00	16.30
		1	187	15.14	15.09	15.14	16.30
		92	46	14.91	14.83	14.88	16.30
	DFT-s-OFDM 64QAM	1	1	15.06	14.97	15.05	16.30
		1	187	15.21	15.16	15.21	16.30
		92	46	14.96	14.93	15.01	16.30
	DFT-s-OFDM 256QAM	1	1	15.01	14.87	14.96	16.30
		1	187	15.09	14.96	15.05	16.30
		92	46	15.07	14.98	15.03	16.30
	CP-OFDM QPSK	1	1	14.85	14.73	14.78	16.30
	CP-OFDM 16QAM	1	1	15.05	14.93	15.01	16.30
	CP-OFDM 64QAM	1	1	15.10	15.05	15.10	16.30
	CP-OFDM 256QAM	1	1	14.72	14.69	14.77	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	14.86	14.78	14.84	16.30
		1	215	14.95	14.91	14.95	16.30
		108	54	14.95	14.86	14.94	16.30
		216	0	14.98	14.89	14.96	16.30
	DFT-s-OFDM QPSK	1	1	14.94	14.87	14.93	16.30
		1	215	15.07	14.99	15.05	16.30
		108	54	14.93	14.85	14.93	16.30
		216	0	14.94	14.83	14.91	16.30
	DFT-s-OFDM 16QAM	1	1	14.97	14.90	14.94	16.30
		1	215	15.09	15.02	15.07	16.30
		108	54	14.87	14.79	14.84	16.30
	DFT-s-OFDM 64QAM	1	1	14.98	14.88	14.96	16.30
		1	215	15.16	15.07	15.14	16.30
		108	54	14.93	14.86	14.92	16.30

	DFT-s-OFDM 256QAM	1	1	14.92	14.79	14.87	16.30
		1	215	15.03	14.95	14.99	16.30
		108	54	15.02	14.91	14.96	16.30
	CP-OFDM QPSK	1	1	14.81	14.69	14.74	16.30
	CP-OFDM 16QAM	1	1	14.97	14.84	14.92	16.30
	CP-OFDM 64QAM	1	1	15.05	14.96	15.03	16.30
	CP-OFDM 256QAM	1	1	14.69	14.62	14.68	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	14.85	14.74	14.82	16.30
		1	243	14.93	14.90	14.92	16.30
		120	60	14.92	14.81	14.90	16.30
		243	0	14.96	14.85	14.93	16.30
	DFT-s-OFDM QPSK	1	1	14.91	14.82	14.89	16.30
		1	243	15.04	14.96	15.01	16.30
		120	60	14.91	14.81	14.88	16.30
		243	0	14.92	14.81	14.89	16.30
	DFT-s-OFDM 16QAM	1	1	14.95	14.87	14.92	16.30
		1	243	15.07	14.98	15.04	16.30
		120	60	14.84	14.77	14.81	16.30
	DFT-s-OFDM 64QAM	1	1	14.95	14.83	14.92	16.30
		1	243	15.14	15.03	15.11	16.30
		120	60	14.90	14.81	14.88	16.30
	DFT-s-OFDM 256QAM	1	1	14.87	14.77	14.85	16.30
		1	243	15.01	14.92	14.97	16.30
		120	60	15.03	14.90	14.97	16.30
	CP-OFDM QPSK	1	1	14.80	14.71	14.75	16.30
	CP-OFDM 16QAM	1	1	14.95	14.81	14.91	16.30
	CP-OFDM 64QAM	1	1	15.03	14.92	15.00	16.30
	CP-OFDM 256QAM	1	1	14.66	14.57	14.64	16.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	14.68	/	16.30
		1	271	/	14.86	/	16.30
		135	67	/	14.77	/	16.30

		270	0	/	14.78	/	16.30
	DFT-s-OFDM QPSK	1	1	/	14.76	/	16.30
		1	271	/	14.87	/	16.30
		135	67	/	14.75	/	16.30
		270	0	/	14.76	/	16.30
	DFT-s-OFDM 16QAM	1	1	/	14.84	/	16.30
		1	271	/	14.93	/	16.30
		135	67	/	14.70	/	16.30
	DFT-s-OFDM 64QAM	1	1	/	14.77	/	16.30
		1	271	/	14.96	/	16.30
		135	67	/	14.75	/	16.30
	DFT-s-OFDM 256QAM	1	1	/	14.68	/	16.30
		1	271	/	14.87	/	16.30
		135	67	/	14.78	/	16.30
	CP-OFDM QPSK	1	1	/	14.60	/	16.30
	CP-OFDM 16QAM	1	1	/	14.73	/	16.30
	CP-OFDM 64QAM	1	1	/	14.85	/	16.30
	CP-OFDM 256QAM	1	1	/	14.51	/	16.30

NR n78 PC3							
Receiver on-Div Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	22.30	22.26	22.27	24.00
		1	49	22.11	22.12	22.11	24.00
		25	12	22.26	22.19	22.25	24.00
		50	0	21.79	21.75	21.77	23.50
	DFT-s-OFDM QPSK	1	1	22.21	22.18	22.20	24.00
		1	49	22.29	22.23	22.25	24.00
		25	12	22.27	22.24	22.28	24.00
		50	0	21.20	21.15	21.21	23.00
	DFT-s-OFDM 16QAM	1	1	21.19	21.13	21.18	23.00
		1	49	21.26	21.22	21.23	23.00
		25	12	21.23	21.18	21.19	23.00
	DFT-s-OFDM 64QAM	1	1	19.72	19.64	19.69	21.50
		1	49	19.73	19.69	19.71	21.50
		25	12	19.78	19.75	19.77	21.50
	DFT-s-OFDM 256QAM	1	1	17.78	17.70	17.76	19.50
		1	49	17.74	17.65	17.70	19.50

		25	12	17.88	17.76	17.78	19.50
	CP-OFDM QPSK	1	1	20.75	20.68	20.73	22.50
	CP-OFDM 16QAM	1	1	20.14	20.04	20.10	22.00
	CP-OFDM 64QAM	1	1	18.86	18.82	18.84	20.50
	CP-OFDM 256QAM	1	1	15.55	15.52	15.54	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	22.32	22.27	22.30	24.00
		1	76	22.14	22.17	22.15	24.00
		36	18	22.28	22.23	22.28	24.00
		75	0	21.82	21.80	21.81	23.50
	DFT-s-OFDM QPSK	1	1	22.24	22.23	22.24	24.00
		1	76	22.31	22.27	22.30	24.00
		36	18	22.31	22.26	22.32	24.00
		75	0	21.24	21.18	21.23	23.00
	DFT-s-OFDM 16QAM	1	1	21.23	21.17	21.21	23.00
		1	76	21.29	21.24	21.26	23.00
		36	18	21.26	21.23	21.23	23.00
	DFT-s-OFDM 64QAM	1	1	19.74	19.68	19.72	21.50
		1	76	19.76	19.74	19.75	21.50
		36	18	19.81	19.80	19.81	21.50
	DFT-s-OFDM 256QAM	1	1	17.80	17.69	17.78	19.50
		1	76	17.77	17.65	17.73	19.50
		36	18	17.87	17.78	17.81	19.50
	CP-OFDM QPSK	1	1	20.78	20.73	20.73	22.50
	CP-OFDM 16QAM	1	1	20.16	20.08	20.13	22.00
	CP-OFDM 64QAM	1	1	18.89	18.87	18.88	20.50
	CP-OFDM 256QAM	1	1	15.58	15.57	15.58	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	22.31	22.23	22.28	24.00
		1	104	22.12	22.16	22.12	24.00
		50	25	22.25	22.18	22.24	24.00
		100	0	21.80	21.76	21.78	23.50
	DFT-s-OFDM	1	1	22.21	22.18	22.20	24.00

	QPSK	1	104	22.28	22.24	22.26	24.00
		50	25	22.29	22.22	22.27	24.00
		100	0	21.22	21.16	21.21	23.00
	DFT-s-OFDM 16QAM	1	1	21.21	21.14	21.19	23.00
		1	104	21.27	21.20	21.23	23.00
		50	25	21.23	21.21	21.20	23.00
	DFT-s-OFDM 64QAM	1	1	19.71	19.63	19.68	21.50
		1	104	19.74	19.70	19.72	21.50
		50	25	19.78	19.75	19.77	21.50
	DFT-s-OFDM 256QAM	1	1	17.75	17.67	17.76	19.50
		1	104	17.75	17.62	17.71	19.50
		50	25	17.88	17.77	17.82	19.50
	CP-OFDM QPSK	1	1	20.77	20.75	20.74	22.50
	CP-OFDM 16QAM	1	1	20.14	20.05	20.12	22.00
	CP-OFDM 64QAM	1	1	18.87	18.83	18.85	20.50
	CP-OFDM 256QAM	1	1	15.55	15.52	15.54	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	22.35	22.35	22.33	24.00
		1	131	22.13	22.16	22.15	24.00
		64	32	22.32	22.26	22.33	24.00
		128	0	21.84	21.84	21.84	23.50
	DFT-s-OFDM QPSK	1	1	22.25	22.26	22.28	24.00
		1	131	22.35	22.29	22.32	24.00
		64	32	22.28	22.32	22.35	24.00
		128	0	21.21	21.22	21.29	23.00
	DFT-s-OFDM 16QAM	1	1	21.20	21.16	21.24	23.00
		1	131	21.31	21.29	21.29	23.00
		64	32	21.28	21.23	21.24	23.00
	DFT-s-OFDM 64QAM	1	1	19.79	19.72	19.77	21.50
		1	131	19.78	19.78	19.78	21.50
		64	32	19.82	19.83	19.85	21.50
	DFT-s-OFDM 256QAM	1	1	17.86	17.77	17.84	19.50
		1	131	17.80	17.68	17.76	19.50
		64	32	17.93	17.83	17.84	19.50
	CP-OFDM QPSK	1	1	20.80	20.73	20.78	22.50
	CP-OFDM 16QAM	1	1	20.21	20.12	20.18	22.00

	CP-OFDM 64QAM	1	1	18.91	18.91	18.91	20.50
	CP-OFDM 256QAM	1	1	15.59	15.60	15.62	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	22.37	22.36	22.36	24.00
		1	160	22.16	22.21	22.19	24.00
		81	40	22.34	22.30	22.36	24.00
		162	0	21.87	21.89	21.88	23.50
	DFT-s-OFDM QPSK	1	1	22.28	22.31	22.32	24.00
		1	160	22.37	22.33	22.37	24.00
		81	40	22.32	22.34	22.39	24.00
		162	0	21.25	21.25	21.31	23.00
	DFT-s-OFDM 16QAM	1	1	21.24	21.20	21.27	23.00
		1	160	21.34	21.31	21.32	23.00
		81	40	21.31	21.28	21.28	23.00
		162	0	21.25	21.25	21.31	23.00
	DFT-s-OFDM 64QAM	1	1	19.81	19.76	19.80	21.50
		1	160	19.81	19.83	19.82	21.50
		81	40	19.85	19.88	19.89	21.50
		162	0	19.87	19.89	19.88	21.50
	DFT-s-OFDM 256QAM	1	1	17.88	17.76	17.86	19.50
		1	160	17.83	17.68	17.79	19.50
		81	40	17.92	17.85	17.87	19.50
		162	0	17.92	17.85	17.87	19.50
	CP-OFDM QPSK	1	1	20.83	20.78	20.78	22.50
	CP-OFDM 16QAM	1	1	20.23	20.16	20.21	22.00
	CP-OFDM 64QAM	1	1	18.94	18.96	18.95	20.50
	CP-OFDM 256QAM	1	1	15.62	15.65	15.66	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	22.36	22.32	22.34	24.00
		1	187	22.14	22.20	22.16	24.00
		92	45	22.31	22.25	22.32	24.00
		180	0	21.85	21.85	21.85	23.50
	DFT-s-OFDM QPSK	1	1	22.25	22.26	22.28	24.00
		1	187	22.34	22.30	22.33	24.00
		92	45	22.30	22.30	22.34	24.00
		180	0	21.23	21.23	21.29	23.00
	DFT-s-OFDM 16QAM	1	1	21.22	21.17	21.25	23.00
		1	187	21.32	21.27	21.29	23.00
		92	45	21.32	21.27	21.29	23.00
		180	0	21.32	21.27	21.29	23.00

		92	46	21.28	21.26	21.25	23.00
	DFT-s-OFDM 64QAM	1	1	19.78	19.71	19.76	21.50
		1	187	19.79	19.79	19.79	21.50
		92	46	19.82	19.83	19.85	21.50
	DFT-s-OFDM 256QAM	1	1	17.83	17.74	17.84	19.50
		1	187	17.81	17.65	17.77	19.50
		92	46	17.93	17.84	17.88	19.50
	CP-OFDM QPSK	1	1	20.82	20.80	20.79	22.50
	CP-OFDM 16QAM	1	1	20.21	20.13	20.20	22.00
	CP-OFDM 64QAM	1	1	18.92	18.92	18.92	20.50
	CP-OFDM 256QAM	1	1	15.59	15.60	15.62	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	22.33	22.28	22.31	24.00
		1	215	22.13	22.16	22.14	24.00
		108	54	22.29	22.24	22.29	24.00
		216	0	21.82	21.80	21.81	23.50
	DFT-s-OFDM QPSK	1	1	22.23	22.22	22.25	24.00
		1	215	22.31	22.25	22.29	24.00
		108	54	22.27	22.25	22.30	24.00
		216	0	21.20	21.19	21.24	23.00
	DFT-s-OFDM 16QAM	1	1	21.19	21.15	21.21	23.00
		1	215	21.29	21.24	21.27	23.00
		108	54	21.25	21.22	21.22	23.00
	DFT-s-OFDM 64QAM	1	1	19.75	19.69	19.73	21.50
		1	215	19.76	19.74	19.75	21.50
		108	54	19.80	19.79	19.82	21.50
	DFT-s-OFDM 256QAM	1	1	17.81	17.70	17.79	19.50
		1	215	17.77	17.63	17.73	19.50
		108	54	17.87	17.78	17.82	19.50
	CP-OFDM QPSK	1	1	20.77	20.72	20.72	22.50
	CP-OFDM 16QAM	1	1	20.17	20.09	20.14	22.00
	CP-OFDM 64QAM	1	1	18.89	18.87	18.88	20.50
	CP-OFDM 256QAM	1	1	15.57	15.56	15.59	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	22.28	22.19	22.25	24.00
		1	243	22.11	22.12	22.10	24.00
		120	60	22.23	22.17	22.21	24.00
		243	0	21.77	21.71	21.74	23.50
	DFT-s-OFDM QPSK	1	1	22.19	22.14	22.17	24.00
		1	243	22.25	22.19	22.22	24.00
		120	60	22.26	22.17	22.23	24.00
		243	0	21.19	21.12	21.16	23.00
	DFT-s-OFDM 16QAM	1	1	21.18	21.12	21.15	23.00
		1	243	21.24	21.17	21.21	23.00
		120	60	21.20	21.17	21.17	23.00
	DFT-s-OFDM 64QAM	1	1	19.68	19.61	19.65	21.50
		1	243	19.71	19.65	19.68	21.50
		120	60	19.76	19.71	19.74	21.50
	DFT-s-OFDM 256QAM	1	1	17.73	17.63	17.71	19.50
		1	243	17.71	17.60	17.67	19.50
		120	60	17.82	17.71	17.76	19.50
	CP-OFDM QPSK	1	1	20.72	20.67	20.67	22.50
	CP-OFDM 16QAM	1	1	20.10	20.01	20.06	22.00
	CP-OFDM 64QAM	1	1	18.84	18.78	18.81	20.50
	CP-OFDM 256QAM	1	1	15.53	15.48	15.51	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	22.10	/	24.00
		1	271	/	22.06	/	24.00
		135	67	/	22.10	/	24.00
		270	0	/	21.61	/	23.50
	DFT-s-OFDM QPSK	1	1	/	22.06	/	24.00
		1	271	/	22.08	/	24.00
		135	67	/	22.11	/	24.00
		270	0	/	21.07	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.09	/	23.00
		1	271	/	21.09	/	23.00
		135	67	/	21.08	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	19.52	/	21.50
		1	271	/	19.55	/	21.50
		135	67	/	19.63	/	21.50

	DFT-s-OFDM 256QAM	1	1	/	17.51	/	19.50
		1	271	/	17.52	/	19.50
		135	67	/	17.60	/	19.50
	CP-OFDM QPSK	1	1	/	20.54	/	22.50
	CP-OFDM 16QAM	1	1	/	19.90	/	22.00
	CP-OFDM 64QAM	1	1	/	18.68	/	20.50
	CP-OFDM 256QAM	1	1	/	15.40	/	17.50

NR n78 PC3							
Receiver off-Div Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	19.95	19.99	19.83	21.10
		1	49	19.75	19.76	19.75	21.10
		25	12	19.97	19.88	19.91	21.10
		50	0	19.96	19.97	19.89	21.10
	DFT-s-OFDM QPSK	1	1	19.93	19.93	19.87	21.10
		1	49	19.96	19.91	19.86	21.10
		25	12	19.94	20.02	19.91	21.10
		50	0	19.89	19.90	19.91	21.10
	DFT-s-OFDM 16QAM	1	1	19.86	19.81	19.87	21.10
		1	49	19.65	19.64	19.54	21.10
		25	12	19.90	19.84	19.83	21.10
	DFT-s-OFDM 64QAM	1	1	19.74	19.65	19.64	21.10
		1	49	19.64	19.65	19.57	21.10
		25	12	19.82	19.82	19.76	21.10
	DFT-s-OFDM 256QAM	1	1	17.91	17.86	17.79	19.50
		1	49	17.79	17.70	17.68	19.50
		25	12	17.89	17.84	17.75	19.50
	CP-OFDM QPSK	1	1	19.80	19.76	19.79	21.10
	CP-OFDM 16QAM	1	1	19.75	19.67	19.67	21.10
	CP-OFDM 64QAM	1	1	18.83	18.84	18.76	20.50
	CP-OFDM 256QAM	1	1	15.57	15.57	15.51	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	19.97	20.00	19.86	21.10
		1	76	19.78	19.81	19.79	21.10
		36	18	19.99	19.92	19.94	21.10
		75	0	19.99	20.02	19.93	21.10
	DFT-s-OFDM QPSK	1	1	19.96	19.98	19.91	21.10
		1	76	19.98	19.95	19.91	21.10
		36	18	19.98	20.04	19.95	21.10
		75	0	19.93	19.93	19.93	21.10
	DFT-s-OFDM 16QAM	1	1	19.90	19.85	19.90	21.10
		1	76	19.68	19.66	19.57	21.10
		36	18	19.93	19.89	19.87	21.10
	DFT-s-OFDM 64QAM	1	1	19.76	19.69	19.67	21.10
		1	76	19.67	19.70	19.61	21.10
		36	18	19.85	19.87	19.80	21.10
	DFT-s-OFDM 256QAM	1	1	17.93	17.85	17.81	19.50
		1	76	17.82	17.70	17.71	19.50
		36	18	17.88	17.86	17.78	19.50
	CP-OFDM QPSK	1	1	19.83	19.81	19.79	21.10
	CP-OFDM 16QAM	1	1	19.77	19.71	19.70	21.10
	CP-OFDM 64QAM	1	1	18.86	18.89	18.80	20.50
	CP-OFDM 256QAM	1	1	15.60	15.62	15.55	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	19.96	19.96	19.84	21.10
		1	104	19.76	19.80	19.76	21.10
		50	25	19.96	19.87	19.90	21.10
		100	0	19.97	19.98	19.90	21.10
	DFT-s-OFDM QPSK	1	1	19.93	19.93	19.87	21.10
		1	104	19.95	19.92	19.87	21.10
		50	25	19.96	20.00	19.90	21.10
		100	0	19.91	19.91	19.91	21.10
	DFT-s-OFDM 16QAM	1	1	19.88	19.82	19.88	21.10
		1	104	19.66	19.62	19.54	21.10
		50	25	19.90	19.87	19.84	21.10
	DFT-s-OFDM 64QAM	1	1	19.73	19.64	19.63	21.10
		1	104	19.65	19.66	19.58	21.10
		50	25	19.82	19.82	19.76	21.10

	DFT-s-OFDM 256QAM	1	1	17.88	17.83	17.79	19.50
		1	104	17.80	17.67	17.69	19.50
		50	25	17.89	17.85	17.79	19.50
	CP-OFDM QPSK	1	1	19.82	19.83	19.80	21.10
	CP-OFDM 16QAM	1	1	19.75	19.68	19.69	21.10
	CP-OFDM 64QAM	1	1	18.84	18.85	18.77	20.50
	CP-OFDM 256QAM	1	1	15.57	15.57	15.51	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	19.93	19.92	19.81	21.10
		1	131	19.75	19.76	19.74	21.10
		64	32	19.94	19.86	19.87	21.10
		128	0	19.94	19.93	19.86	21.10
	DFT-s-OFDM QPSK	1	1	19.91	19.89	19.84	21.10
		1	131	19.92	19.87	19.83	21.10
		64	32	19.93	19.95	19.86	21.10
		128	0	19.88	19.87	19.86	21.10
	DFT-s-OFDM 16QAM	1	1	19.85	19.80	19.84	21.10
		1	131	19.63	19.59	19.52	21.10
		64	32	19.87	19.83	19.81	21.10
	DFT-s-OFDM 64QAM	1	1	19.70	19.62	19.60	21.10
		1	131	19.62	19.61	19.54	21.10
		64	32	19.80	19.78	19.73	21.10
	DFT-s-OFDM 256QAM	1	1	17.86	17.79	17.74	19.50
		1	131	17.76	17.65	17.65	19.50
		64	32	17.83	17.79	17.73	19.50
	CP-OFDM QPSK	1	1	19.77	19.75	19.73	21.10
	CP-OFDM 16QAM	1	1	19.71	19.64	19.63	21.10
	CP-OFDM 64QAM	1	1	18.81	18.80	18.73	20.50
	CP-OFDM 256QAM	1	1	15.55	15.53	15.48	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	19.90	19.90	19.77	21.10
		1	160	19.73	19.72	19.71	21.10
		81	40	19.91	19.81	19.83	21.10

		162	0	19.91	19.88	19.82	21.10
	DFT-s-OFDM QPSK	1	1	19.89	19.85	19.79	21.10
		1	160	19.90	19.85	19.79	21.10
		81	40	19.93	19.94	19.84	21.10
		162	0	19.88	19.83	19.83	21.10
	DFT-s-OFDM 16QAM	1	1	19.85	19.78	19.81	21.10
		1	160	19.60	19.57	19.48	21.10
		81	40	19.85	19.79	19.78	21.10
	DFT-s-OFDM 64QAM	1	1	19.67	19.57	19.56	21.10
		1	160	19.59	19.56	19.50	21.10
		81	40	19.78	19.74	19.68	21.10
	DFT-s-OFDM 256QAM	1	1	17.83	17.79	17.71	19.50
		1	160	17.73	17.67	17.62	19.50
		81	40	17.84	17.77	17.69	19.50
	CP-OFDM QPSK	1	1	19.75	19.71	19.74	21.10
	CP-OFDM 16QAM	1	1	19.68	19.59	19.59	21.10
	CP-OFDM 64QAM	1	1	18.78	18.75	18.69	20.50
	CP-OFDM 256QAM	1	1	15.53	15.49	15.43	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	19.92	19.91	19.80	21.10
		1	187	19.76	19.77	19.75	21.10
		92	45	19.93	19.85	19.86	21.10
		180	0	19.94	19.93	19.86	21.10
	DFT-s-OFDM QPSK	1	1	19.92	19.90	19.83	21.10
		1	187	19.92	19.89	19.84	21.10
		92	45	19.97	19.96	19.88	21.10
		180	0	19.92	19.86	19.85	21.10
	DFT-s-OFDM 16QAM	1	1	19.89	19.82	19.84	21.10
		1	187	19.63	19.59	19.51	21.10
		92	46	19.88	19.84	19.82	21.10
	DFT-s-OFDM 64QAM	1	1	19.69	19.61	19.59	21.10
		1	187	19.62	19.61	19.54	21.10
		92	46	19.81	19.79	19.72	21.10
	DFT-s-OFDM 256QAM	1	1	17.85	17.78	17.73	19.50
		1	187	17.76	17.67	17.65	19.50
		92	46	17.83	17.79	17.72	19.50
	CP-OFDM QPSK	1	1	19.78	19.76	19.74	21.10

	CP-OFDM 16QAM	1	1	19.70	19.63	19.62	21.10
	CP-OFDM 64QAM	1	1	18.81	18.80	18.73	20.50
	CP-OFDM 256QAM	1	1	15.56	15.54	15.47	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	19.91	19.87	19.78	21.10
		1	215	19.74	19.76	19.72	21.10
		108	54	19.90	19.80	19.82	21.10
		216	0	19.92	19.89	19.83	21.10
	DFT-s-OFDM QPSK	1	1	19.89	19.85	19.79	21.10
		1	215	19.89	19.86	19.80	21.10
		108	54	19.95	19.92	19.83	21.10
		216	0	19.90	19.84	19.83	21.10
	DFT-s-OFDM 16QAM	1	1	19.87	19.79	19.82	21.10
		1	215	19.61	19.55	19.48	21.10
		108	54	19.85	19.82	19.79	21.10
	DFT-s-OFDM 64QAM	1	1	19.66	19.56	19.55	21.10
		1	215	19.60	19.57	19.51	21.10
		108	54	19.78	19.74	19.68	21.10
	DFT-s-OFDM 256QAM	1	1	17.80	17.76	17.71	19.50
		1	215	17.74	17.64	17.63	19.50
		108	54	17.84	17.78	17.73	19.50
	CP-OFDM QPSK	1	1	19.77	19.78	19.75	21.10
	CP-OFDM 16QAM	1	1	19.68	19.60	19.61	21.10
	CP-OFDM 64QAM	1	1	18.79	18.76	18.70	20.50
	CP-OFDM 256QAM	1	1	15.53	15.49	15.43	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	19.88	19.83	19.75	21.10
		1	243	19.73	19.72	19.70	21.10
		120	60	19.88	19.79	19.79	21.10
		243	0	19.89	19.84	19.79	21.10
	DFT-s-OFDM QPSK	1	1	19.87	19.81	19.76	21.10
		1	243	19.86	19.81	19.76	21.10
		120	60	19.92	19.87	19.79	21.10
		243	0	19.87	19.80	19.78	21.10

	DFT-s-OFDM 16QAM	1	1	19.84	19.77	19.78	21.10
		1	243	19.58	19.52	19.46	21.10
		120	60	19.82	19.78	19.76	21.10
	DFT-s-OFDM 64QAM	1	1	19.63	19.54	19.52	21.10
		1	243	19.57	19.52	19.47	21.10
		120	60	19.76	19.70	19.65	21.10
	DFT-s-OFDM 256QAM	1	1	17.78	17.72	17.66	19.50
		1	243	17.70	17.62	17.59	19.50
		120	60	17.78	17.72	17.67	19.50
	CP-OFDM QPSK	1	1	19.72	19.70	19.68	21.10
	CP-OFDM 16QAM	1	1	19.64	19.56	19.55	21.10
	CP-OFDM 64QAM	1	1	18.76	18.71	18.66	20.50
	CP-OFDM 256QAM	1	1	15.51	15.45	15.40	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	19.70	/	21.10
		1	271	/	19.68	/	21.10
		135	67	/	19.73	/	21.10
		270	0	/	19.73	/	21.10
	DFT-s-OFDM QPSK	1	1	/	19.71	/	21.10
		1	271	/	19.68	/	21.10
		135	67	/	19.74	/	21.10
		270	0	/	19.72	/	21.10
	DFT-s-OFDM 16QAM	1	1	/	19.73	/	21.10
		1	271	/	19.42	/	21.10
		135	67	/	19.70	/	21.10
	DFT-s-OFDM 64QAM	1	1	/	19.45	/	21.10
		1	271	/	19.41	/	21.10
		135	67	/	19.60	/	21.10
	DFT-s-OFDM 256QAM	1	1	/	17.56	/	19.50
		1	271	/	17.52	/	19.50
		135	67	/	17.55	/	19.50
	CP-OFDM QPSK	1	1	/	19.58	/	21.10
	CP-OFDM 16QAM	1	1	/	19.45	/	21.10
	CP-OFDM 64QAM	1	1	/	18.60	/	20.50
	CP-OFDM	1	1	/	15.35	/	17.50

	256QAM						

NR n78 PC3							
Hotspot on-Div Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	15.29	15.28	15.18	16.40
		1	49	15.09	15.09	15.09	16.40
		25	12	15.35	15.30	15.29	16.40
		50	0	15.29	15.28	15.22	16.40
	DFT-s-OFDM QPSK	1	1	15.37	15.37	15.31	16.40
		1	49	15.33	15.29	15.25	16.40
		25	12	15.31	15.34	15.27	16.40
		50	0	15.24	15.24	15.22	16.40
	DFT-s-OFDM 16QAM	1	1	15.25	15.24	15.24	16.40
		1	49	15.34	15.31	15.24	16.40
		25	12	15.27	15.22	15.21	16.40
	DFT-s-OFDM 64QAM	1	1	15.21	15.15	15.12	16.40
		1	49	15.15	15.14	15.08	16.40
		25	12	15.27	15.27	15.21	16.40
	DFT-s-OFDM 256QAM	1	1	15.56	15.47	15.41	16.40
		1	49	15.46	15.39	15.35	16.40
		25	12	15.31	15.28	15.21	16.40
	CP-OFDM QPSK	1	1	15.14	15.09	15.08	16.40
	CP-OFDM 16QAM	1	1	15.10	15.04	15.01	16.40
	CP-OFDM 64QAM	1	1	15.33	15.32	15.26	16.40
CP-OFDM 256QAM	1	1	14.96	14.96	14.90	16.40	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	15.30	15.31	15.18	16.40
		1	76	15.07	15.08	15.07	16.40
		36	18	15.35	15.27	15.29	16.40
		75	0	15.29	15.28	15.22	16.40
	DFT-s-OFDM QPSK	1	1	15.36	15.36	15.30	16.40
		1	76	15.34	15.30	15.24	16.40
		36	18	15.30	15.37	15.27	16.40
		75	0	15.23	15.25	15.25	16.40
	DFT-s-OFDM 16QAM	1	1	15.24	15.22	15.25	16.40
		1	76	15.34	15.32	15.23	16.40

		36	18	15.27	15.21	15.20	16.40
	DFT-s-OFDM 64QAM	1	1	15.22	15.13	15.12	16.40
		1	76	15.15	15.14	15.08	16.40
		36	18	15.26	15.26	15.20	16.40
	DFT-s-OFDM 256QAM	1	1	15.56	15.52	15.44	16.40
		1	76	15.47	15.41	15.36	16.40
		36	18	15.38	15.32	15.24	16.40
	CP-OFDM QPSK	1	1	15.16	15.12	15.15	16.40
	CP-OFDM 16QAM	1	1	15.12	15.04	15.04	16.40
	CP-OFDM 64QAM	1	1	15.33	15.32	15.26	16.40
	CP-OFDM 256QAM	1	1	14.95	14.95	14.89	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	15.28	15.24	15.16	16.40
		1	104	15.07	15.08	15.06	16.40
		50	25	15.32	15.25	15.25	16.40
		100	0	15.27	15.24	15.19	16.40
	DFT-s-OFDM QPSK	1	1	15.34	15.32	15.27	16.40
		1	104	15.30	15.26	15.21	16.40
		50	25	15.29	15.30	15.22	16.40
		100	0	15.22	15.22	15.20	16.40
	DFT-s-OFDM 16QAM	1	1	15.23	15.21	15.22	16.40
		1	104	15.32	15.27	15.21	16.40
		50	25	15.24	15.20	15.18	16.40
	DFT-s-OFDM 64QAM	1	1	15.18	15.10	15.08	16.40
		1	104	15.13	15.10	15.05	16.40
		50	25	15.24	15.22	15.17	16.40
	DFT-s-OFDM 256QAM	1	1	15.51	15.45	15.39	16.40
		1	104	15.44	15.36	15.33	16.40
		50	25	15.32	15.27	15.22	16.40
	CP-OFDM QPSK	1	1	15.13	15.11	15.09	16.40
	CP-OFDM 16QAM	1	1	15.08	15.01	15.00	16.40
	CP-OFDM 64QAM	1	1	15.31	15.28	15.23	16.40
	CP-OFDM 256QAM	1	1	14.93	14.91	14.86	16.40

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	15.31	15.35	15.20	16.40
		1	131	15.09	15.09	15.10	16.40
		64	32	15.38	15.32	15.33	16.40
		128	0	15.31	15.32	15.25	16.40
	DFT-s-OFDM QPSK	1	1	15.39	15.41	15.34	16.40
		1	131	15.37	15.33	15.28	16.40
		64	32	15.32	15.41	15.32	16.40
		128	0	15.25	15.27	15.27	16.40
	DFT-s-OFDM 16QAM	1	1	15.26	15.25	15.27	16.40
		1	131	15.36	15.36	15.26	16.40
		64	32	15.30	15.23	15.23	16.40
	DFT-s-OFDM 64QAM	1	1	15.25	15.18	15.16	16.40
		1	131	15.17	15.18	15.11	16.40
		64	32	15.29	15.31	15.24	16.40
	DFT-s-OFDM 256QAM	1	1	15.61	15.54	15.46	16.40
		1	131	15.49	15.44	15.38	16.40
		64	32	15.37	15.33	15.23	16.40
	CP-OFDM QPSK	1	1	15.17	15.10	15.14	16.40
	CP-OFDM 16QAM	1	1	15.14	15.07	15.05	16.40
	CP-OFDM 64QAM	1	1	15.35	15.36	15.29	16.40
	CP-OFDM 256QAM	1	1	14.98	15.00	14.93	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	15.27	15.27	15.15	16.40
		1	160	15.06	15.04	15.05	16.40
		81	40	15.33	15.26	15.26	16.40
		162	0	15.26	15.23	15.18	16.40
	DFT-s-OFDM QPSK	1	1	15.34	15.32	15.27	16.40
		1	160	15.31	15.25	15.20	16.40
		81	40	15.27	15.32	15.23	16.40
		162	0	15.20	15.21	15.20	16.40
	DFT-s-OFDM 16QAM	1	1	15.21	15.20	15.21	16.40
		1	160	15.31	15.29	15.21	16.40
		81	40	15.24	15.17	15.17	16.40
	DFT-s-OFDM 64QAM	1	1	15.19	15.11	15.09	16.40
		1	160	15.12	15.09	15.04	16.40
		81	40	15.24	15.22	15.17	16.40

	DFT-s-OFDM 256QAM	1	1	15.54	15.48	15.39	16.40
		1	160	15.43	15.39	15.32	16.40
		81	40	15.32	15.26	15.18	16.40
	CP-OFDM QPSK	1	1	15.11	15.04	15.08	16.40
	CP-OFDM 16QAM	1	1	15.08	15.00	14.98	16.40
	CP-OFDM 64QAM	1	1	15.30	15.27	15.22	16.40
	CP-OFDM 256QAM	1	1	14.93	14.91	14.86	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	15.29	15.34	15.17	16.40
		1	187	15.06	15.04	15.06	16.40
		92	45	15.36	15.28	15.30	16.40
		180	0	15.28	15.27	15.21	16.40
	DFT-s-OFDM QPSK	1	1	15.36	15.36	15.30	16.40
		1	187	15.35	15.29	15.23	16.40
		92	45	15.28	15.39	15.28	16.40
		180	0	15.21	15.24	15.25	16.40
	DFT-s-OFDM 16QAM	1	1	15.22	15.21	15.24	16.40
		1	187	15.33	15.34	15.23	16.40
		92	46	15.27	15.18	15.19	16.40
	DFT-s-OFDM 64QAM	1	1	15.23	15.14	15.13	16.40
		1	187	15.14	15.13	15.07	16.40
		92	46	15.26	15.26	15.20	16.40
	DFT-s-OFDM 256QAM	1	1	15.59	15.55	15.44	16.40
		1	187	15.46	15.44	15.35	16.40
		92	46	15.38	15.31	15.20	16.40
	CP-OFDM QPSK	1	1	15.14	15.05	15.14	16.40
	CP-OFDM 16QAM	1	1	15.12	15.03	15.02	16.40
	CP-OFDM 64QAM	1	1	15.32	15.31	15.25	16.40
	CP-OFDM 256QAM	1	1	14.95	14.95	14.89	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	15.32	15.36	15.21	16.40
		1	215	15.08	15.08	15.09	16.40
		108	54	15.39	15.33	15.34	16.40

		216	0	15.31	15.32	15.25	16.40
	DFT-s-OFDM QPSK	1	1	15.38	15.40	15.35	16.40
		1	215	15.37	15.31	15.27	16.40
		108	54	15.28	15.40	15.30	16.40
		216	0	15.21	15.28	15.28	16.40
	DFT-s-OFDM 16QAM	1	1	15.22	15.23	15.27	16.40
		1	215	15.36	15.36	15.27	16.40
		108	54	15.29	15.22	15.22	16.40
	DFT-s-OFDM 64QAM	1	1	15.26	15.19	15.17	16.40
		1	215	15.17	15.18	15.11	16.40
		108	54	15.28	15.30	15.25	16.40
	DFT-s-OFDM 256QAM	1	1	15.62	15.55	15.47	16.40
		1	215	15.49	15.42	15.38	16.40
		108	54	15.37	15.33	15.24	16.40
	CP-OFDM QPSK	1	1	15.16	15.09	15.13	16.40
	CP-OFDM 16QAM	1	1	15.15	15.08	15.06	16.40
	CP-OFDM 64QAM	1	1	15.35	15.36	15.29	16.40
	CP-OFDM 256QAM	1	1	14.97	14.99	14.94	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	15.25	15.20	15.13	16.40
		1	243	15.06	15.04	15.04	16.40
		120	60	15.30	15.24	15.22	16.40
		243	0	15.24	15.19	15.15	16.40
	DFT-s-OFDM QPSK	1	1	15.32	15.28	15.24	16.40
		1	243	15.27	15.21	15.17	16.40
		120	60	15.26	15.25	15.18	16.40
		243	0	15.19	15.18	15.15	16.40
	DFT-s-OFDM 16QAM	1	1	15.20	15.19	15.18	16.40
		1	243	15.29	15.24	15.19	16.40
		120	60	15.21	15.16	15.15	16.40
		1	1	15.15	15.08	15.05	16.40
	DFT-s-OFDM 64QAM	1	243	15.10	15.05	15.01	16.40
		120	60	15.22	15.18	15.14	16.40
		1	1	15.49	15.41	15.34	16.40
		1	243	15.40	15.34	15.29	16.40
		120	60	15.26	15.21	15.16	16.40
	CP-OFDM QPSK	1	1	15.08	15.03	15.02	16.40

	CP-OFDM 16QAM	1	1	15.04	14.97	14.94	16.40
	CP-OFDM 64QAM	1	1	15.28	15.23	15.19	16.40
	CP-OFDM 256QAM	1	1	14.91	14.87	14.83	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	15.07	/	16.40
		1	271	/	15.00	/	16.40
		135	67	/	15.14	/	16.40
		270	0	/	15.08	/	16.40
	DFT-s-OFDM QPSK	1	1	/	15.16	/	16.40
		1	271	/	15.10	/	16.40
		135	67	/	15.11	/	16.40
		270	0	/	15.07	/	16.40
	DFT-s-OFDM 16QAM	1	1	/	15.12	/	16.40
		1	271	/	15.13	/	16.40
		135	67	/	15.10	/	16.40
	DFT-s-OFDM 64QAM	1	1	/	14.97	/	16.40
		1	271	/	14.94	/	16.40
		135	67	/	15.06	/	16.40
	DFT-s-OFDM 256QAM	1	1	/	15.26	/	16.40
		1	271	/	15.23	/	16.40
		135	67	/	15.10	/	16.40
	CP-OFDM QPSK	1	1	/	14.97	/	16.40
	CP-OFDM 16QAM	1	1	/	14.86	/	16.40
	CP-OFDM 64QAM	1	1	/	15.12	/	16.40
	CP-OFDM 256QAM	1	1	/	14.75	/	16.40

NR n78 PC3							
Receiver on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	18.17	18.12	18.14	19.50
		1	49	18.44	18.42	18.43	19.50
		25	12	18.34	18.28	18.32	19.50
		50	0	18.33	18.27	18.30	19.50
	DFT-s-OFDM	1	1	18.09	18.04	18.07	19.50

	QPSK	1	49	18.60	18.52	18.55	19.50
		25	12	18.34	18.29	18.34	19.50
		50	0	18.28	18.22	18.27	19.50
	DFT-s-OFDM 16QAM	1	1	17.95	17.90	17.93	19.50
		1	49	18.42	18.38	18.40	19.50
		25	12	18.29	18.23	18.25	19.50
	DFT-s-OFDM 64QAM	1	1	17.87	17.80	17.84	19.50
		1	49	18.28	18.22	18.25	19.50
		25	12	18.23	18.18	18.21	19.50
	DFT-s-OFDM 256QAM	1	1	17.27	17.17	17.22	19.00
		1	49	17.45	17.38	17.41	19.00
		25	12	17.34	17.22	17.24	19.00
	CP-OFDM QPSK	1	1	18.04	17.94	18.00	19.50
	CP-OFDM 16QAM	1	1	18.33	18.23	18.27	19.50
	CP-OFDM 64QAM	1	1	17.91	17.85	17.88	19.50
	CP-OFDM 256QAM	1	1	15.15	15.10	15.13	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	18.19	18.13	18.17	19.50
		1	76	18.47	18.47	18.47	19.50
		36	18	18.36	18.32	18.35	19.50
		75	0	18.36	18.32	18.34	19.50
	DFT-s-OFDM QPSK	1	1	18.12	18.09	18.11	19.50
		1	76	18.62	18.56	18.60	19.50
		36	18	18.38	18.31	18.38	19.50
		75	0	18.32	18.25	18.29	19.50
	DFT-s-OFDM 16QAM	1	1	17.99	17.94	17.96	19.50
		1	76	18.45	18.40	18.43	19.50
		36	18	18.32	18.28	18.29	19.50
	DFT-s-OFDM 64QAM	1	1	17.89	17.84	17.87	19.50
		1	76	18.31	18.27	18.29	19.50
		36	18	18.26	18.23	18.25	19.50
	DFT-s-OFDM 256QAM	1	1	17.29	17.16	17.24	19.00
		1	76	17.48	17.38	17.44	19.00
		36	18	17.33	17.24	17.27	19.00
	CP-OFDM QPSK	1	1	18.07	17.99	18.00	19.50
	CP-OFDM 16QAM	1	1	18.35	18.27	18.30	19.50

	CP-OFDM 64QAM	1	1	17.94	17.90	17.92	19.50
	CP-OFDM 256QAM	1	1	15.18	15.15	15.17	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	18.23	18.18	18.21	19.50
		1	104	18.47	18.50	18.48	19.50
		50	25	18.39	18.34	18.39	19.50
		100	0	18.39	18.37	18.38	19.50
	DFT-s-OFDM QPSK	1	1	18.13	18.12	18.15	19.50
		1	104	18.65	18.59	18.63	19.50
		50	25	18.37	18.35	18.40	19.50
		100	0	18.31	18.30	18.35	19.50
	DFT-s-OFDM 16QAM	1	1	17.98	17.94	18.00	19.50
		1	104	18.48	18.43	18.46	19.50
		50	25	18.34	18.31	18.31	19.50
	DFT-s-OFDM 64QAM	1	1	17.93	17.87	17.91	19.50
		1	104	18.34	18.32	18.33	19.50
		50	25	18.27	18.26	18.29	19.50
	DFT-s-OFDM 256QAM	1	1	17.32	17.21	17.30	19.00
		1	104	17.52	17.38	17.48	19.00
		50	25	17.39	17.30	17.34	19.00
	CP-OFDM QPSK	1	1	18.11	18.06	18.06	19.50
	CP-OFDM 16QAM	1	1	18.40	18.32	18.37	19.50
	CP-OFDM 64QAM	1	1	17.97	17.95	17.96	19.50
	CP-OFDM 256QAM	1	1	15.19	15.18	15.21	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	18.24	18.22	18.23	19.50
		1	131	18.49	18.51	18.51	19.50
		64	32	18.42	18.39	18.43	19.50
		128	0	18.41	18.41	18.41	19.50
	DFT-s-OFDM QPSK	1	1	18.16	18.17	18.19	19.50
		1	131	18.68	18.62	18.67	19.50
		64	32	18.39	18.39	18.45	19.50
		128	0	18.33	18.32	18.37	19.50
	DFT-s-OFDM 16QAM	1	1	18.00	17.97	18.02	19.50
		1	131	18.50	18.47	18.49	19.50

		64	32	18.37	18.33	18.34	19.50
	DFT-s-OFDM 64QAM	1	1	17.96	17.92	17.95	19.50
		1	131	18.36	18.36	18.36	19.50
		64	32	18.30	18.31	18.33	19.50
	DFT-s-OFDM 256QAM	1	1	17.37	17.23	17.32	19.00
		1	131	17.54	17.41	17.50	19.00
		64	32	17.38	17.31	17.33	19.00
	CP-OFDM QPSK	1	1	18.12	18.04	18.05	19.50
	CP-OFDM 16QAM	1	1	18.42	18.35	18.38	19.50
	CP-OFDM 64QAM	1	1	17.99	17.99	17.99	19.50
	CP-OFDM 256QAM	1	1	15.22	15.23	15.25	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	18.22	18.21	18.20	19.50
		1	160	18.46	18.46	18.47	19.50
		81	40	18.40	18.35	18.40	19.50
		162	0	18.38	18.36	18.37	19.50
	DFT-s-OFDM QPSK	1	1	18.13	18.12	18.15	19.50
		1	160	18.66	18.58	18.62	19.50
		81	40	18.35	18.37	18.41	19.50
		162	0	18.29	18.29	18.35	19.50
	DFT-s-OFDM 16QAM	1	1	17.96	17.93	17.99	19.50
		1	160	18.47	18.45	18.46	19.50
		81	40	18.34	18.28	18.30	19.50
	DFT-s-OFDM 64QAM	1	1	17.94	17.88	17.92	19.50
		1	160	18.33	18.31	18.32	19.50
		81	40	18.27	18.26	18.29	19.50
	DFT-s-OFDM 256QAM	1	1	17.35	17.24	17.30	19.00
		1	160	17.51	17.41	17.47	19.00
		81	40	17.39	17.29	17.30	19.00
	CP-OFDM QPSK	1	1	18.09	17.99	18.05	19.50
	CP-OFDM 16QAM	1	1	18.40	18.31	18.35	19.50
	CP-OFDM 64QAM	1	1	17.96	17.94	17.95	19.50
	CP-OFDM 256QAM	1	1	15.19	15.18	15.21	17.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	18.18	18.09	18.15	19.50
		1	187	18.45	18.46	18.44	19.50
		92	45	18.33	18.27	18.31	19.50
		180	0	18.34	18.28	18.31	19.50
	DFT-s-OFDM QPSK	1	1	18.09	18.04	18.07	19.50
		1	187	18.59	18.53	18.56	19.50
		92	45	18.36	18.27	18.33	19.50
		180	0	18.30	18.23	18.27	19.50
	DFT-s-OFDM 16QAM	1	1	17.97	17.91	17.94	19.50
		1	187	18.43	18.36	18.40	19.50
		92	46	18.29	18.26	18.26	19.50
	DFT-s-OFDM 64QAM	1	1	17.86	17.79	17.83	19.50
		1	187	18.29	18.23	18.26	19.50
		92	46	18.23	18.18	18.21	19.50
	DFT-s-OFDM 256QAM	1	1	17.24	17.14	17.22	19.00
		1	187	17.46	17.35	17.42	19.00
		92	46	17.34	17.23	17.28	19.00
	CP-OFDM QPSK	1	1	18.06	18.01	18.01	19.50
	CP-OFDM 16QAM	1	1	18.33	18.24	18.29	19.50
	CP-OFDM 64QAM	1	1	17.92	17.86	17.89	19.50
	CP-OFDM 256QAM	1	1	15.15	15.10	15.13	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	18.25	18.23	18.24	19.50
		1	215	18.48	18.50	18.50	19.50
		108	54	18.43	18.40	18.44	19.50
		216	0	18.41	18.41	18.41	19.50
	DFT-s-OFDM QPSK	1	1	18.15	18.16	18.20	19.50
		1	215	18.68	18.60	18.66	19.50
		108	54	18.35	18.38	18.43	19.50
		216	0	18.29	18.33	18.38	19.50
	DFT-s-OFDM 16QAM	1	1	17.96	17.95	18.02	19.50
		1	215	18.50	18.47	18.50	19.50
		108	54	18.36	18.32	18.33	19.50
	DFT-s-OFDM 64QAM	1	1	17.97	17.93	17.96	19.50
		1	215	18.36	18.36	18.36	19.50
		108	54	18.29	18.30	18.34	19.50

	DFT-s-OFDM 256QAM	1	1	17.38	17.24	17.33	19.00
		1	215	17.54	17.39	17.50	19.00
		108	54	17.38	17.31	17.34	19.00
	CP-OFDM QPSK	1	1	18.11	18.03	18.04	19.50
	CP-OFDM 16QAM	1	1	18.43	18.36	18.39	19.50
	CP-OFDM 64QAM	1	1	17.99	17.99	17.99	19.50
	CP-OFDM 256QAM	1	1	15.21	15.22	15.26	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	18.15	18.05	18.12	19.50
		1	243	18.44	18.42	18.42	19.50
		120	60	18.31	18.26	18.28	19.50
		243	0	18.31	18.23	18.27	19.50
	DFT-s-OFDM QPSK	1	1	18.07	18.00	18.04	19.50
		1	243	18.56	18.48	18.52	19.50
		120	60	18.33	18.22	18.29	19.50
		243	0	18.27	18.19	18.22	19.50
	DFT-s-OFDM 16QAM	1	1	17.94	17.89	17.90	19.50
		1	243	18.40	18.33	18.38	19.50
		120	60	18.26	18.22	18.23	19.50
	DFT-s-OFDM 64QAM	1	1	17.83	17.77	17.80	19.50
		1	243	18.26	18.18	18.22	19.50
		120	60	18.21	18.14	18.18	19.50
	DFT-s-OFDM 256QAM	1	1	17.22	17.10	17.17	19.00
		1	243	17.42	17.33	17.38	19.00
		120	60	17.28	17.17	17.22	19.00
	CP-OFDM QPSK	1	1	18.01	17.93	17.94	19.50
	CP-OFDM 16QAM	1	1	18.29	18.20	18.23	19.50
	CP-OFDM 64QAM	1	1	17.89	17.81	17.85	19.50
	CP-OFDM 256QAM	1	1	15.13	15.06	15.10	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	18.00	/	19.50
		1	271	/	18.40	/	19.50
		135	67	/	18.20	/	19.50

		270	0	/	18.18	/	19.50
	DFT-s-OFDM QPSK	1	1	/	17.96	/	19.50
		1	271	/	18.42	/	19.50
		135	67	/	18.21	/	19.50
		270	0	/	18.18	/	19.50
	DFT-s-OFDM 16QAM	1	1	/	17.88	/	19.50
		1	271	/	18.28	/	19.50
		135	67	/	18.17	/	19.50
	DFT-s-OFDM 64QAM	1	1	/	17.70	/	19.50
		1	271	/	18.13	/	19.50
		135	67	/	18.10	/	19.50
	DFT-s-OFDM 256QAM	1	1	/	17.02	/	19.00
		1	271	/	17.27	/	19.00
		135	67	/	17.12	/	19.00
	CP-OFDM QPSK	1	1	/	17.88	/	19.50
	CP-OFDM 16QAM	1	1	/	18.13	/	19.50
	CP-OFDM 64QAM	1	1	/	17.76	/	19.50
	CP-OFDM 256QAM	1	1	/	15.02	/	17.00

NR n78 PC3							
Receiver off-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	16.48	16.61	16.44	17.80
		1	49	16.76	16.82	16.76	17.80
		25	12	16.65	16.73	16.61	17.80
		50	0	16.61	16.74	16.58	17.80
	DFT-s-OFDM QPSK	1	1	16.37	16.49	16.37	17.80
		1	49	16.91	16.97	16.86	17.80
		25	12	16.58	16.73	16.63	17.80
		50	0	16.63	16.76	16.69	17.80
	DFT-s-OFDM 16QAM	1	1	16.21	16.26	16.25	17.80
		1	49	16.77	16.86	16.73	17.80
		25	12	16.55	16.60	16.50	17.80
	DFT-s-OFDM 64QAM	1	1	16.20	16.29	16.14	17.80
		1	49	16.67	16.80	16.64	17.80
		25	12	16.58	16.70	16.58	17.80
	DFT-s-OFDM 256QAM	1	1	16.44	16.50	16.36	17.80
		1	49	16.76	16.76	16.70	17.80

		25	12	16.65	16.74	16.61	17.80
	CP-OFDM QPSK	1	1	16.26	16.31	16.21	17.80
	CP-OFDM 16QAM	1	1	16.65	16.74	16.59	17.80
	CP-OFDM 64QAM	1	1	16.24	16.37	16.21	17.80
	CP-OFDM 256QAM	1	1	15.21	15.33	15.21	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	16.45	16.59	16.40	17.80
		1	76	16.74	16.78	16.73	17.80
		36	18	16.62	16.68	16.57	17.80
		75	0	16.58	16.69	16.54	17.80
	DFT-s-OFDM QPSK	1	1	16.35	16.45	16.32	17.80
		1	76	16.89	16.95	16.82	17.80
		36	18	16.58	16.72	16.61	17.80
		75	0	16.63	16.72	16.66	17.80
	DFT-s-OFDM 16QAM	1	1	16.21	16.24	16.22	17.80
		1	76	16.74	16.84	16.69	17.80
		36	18	16.53	16.56	16.47	17.80
	DFT-s-OFDM 64QAM	1	1	16.17	16.24	16.10	17.80
		1	76	16.64	16.75	16.60	17.80
		36	18	16.56	16.66	16.53	17.80
	DFT-s-OFDM 256QAM	1	1	16.41	16.50	16.33	17.80
		1	76	16.73	16.78	16.67	17.80
		36	18	16.66	16.72	16.57	17.80
	CP-OFDM QPSK	1	1	16.24	16.27	16.22	17.80
	CP-OFDM 16QAM	1	1	16.62	16.69	16.55	17.80
	CP-OFDM 64QAM	1	1	16.21	16.32	16.17	17.80
	CP-OFDM 256QAM	1	1	15.19	15.29	15.16	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	16.47	16.60	16.43	17.80
		1	104	16.77	16.83	16.77	17.80
		50	25	16.64	16.72	16.60	17.80
		100	0	16.61	16.74	16.58	17.80
	DFT-s-OFDM	1	1	16.38	16.50	16.36	17.80

	QPSK	1	104	16.91	16.99	16.87	17.80
		50	25	16.62	16.74	16.65	17.80
		100	0	16.67	16.75	16.68	17.80
	DFT-s-OFDM 16QAM	1	1	16.25	16.28	16.25	17.80
		1	104	16.77	16.86	16.72	17.80
		50	25	16.56	16.61	16.51	17.80
	DFT-s-OFDM 64QAM	1	1	16.19	16.28	16.13	17.80
		1	104	16.67	16.80	16.64	17.80
		50	25	16.59	16.71	16.57	17.80
	DFT-s-OFDM 256QAM	1	1	16.43	16.49	16.35	17.80
		1	104	16.76	16.78	16.70	17.80
		50	25	16.65	16.74	16.60	17.80
	CP-OFDM QPSK	1	1	16.27	16.32	16.22	17.80
	CP-OFDM 16QAM	1	1	16.64	16.73	16.58	17.80
	CP-OFDM 64QAM	1	1	16.24	16.37	16.21	17.80
	CP-OFDM 256QAM	1	1	15.22	15.34	15.20	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	16.46	16.56	16.41	17.80
		1	131	16.75	16.82	16.74	17.80
		64	32	16.61	16.67	16.56	17.80
		128	0	16.59	16.70	16.55	17.80
	DFT-s-OFDM QPSK	1	1	16.35	16.45	16.32	17.80
		1	131	16.88	16.96	16.83	17.80
		64	32	16.60	16.70	16.60	17.80
		128	0	16.65	16.73	16.66	17.80
	DFT-s-OFDM 16QAM	1	1	16.23	16.25	16.23	17.80
		1	131	16.75	16.82	16.69	17.80
		64	32	16.53	16.59	16.48	17.80
	DFT-s-OFDM 64QAM	1	1	16.16	16.23	16.09	17.80
		1	131	16.65	16.76	16.61	17.80
		64	32	16.56	16.66	16.53	17.80
	DFT-s-OFDM 256QAM	1	1	16.38	16.47	16.33	17.80
		1	131	16.74	16.75	16.68	17.80
		64	32	16.66	16.73	16.61	17.80
	CP-OFDM QPSK	1	1	16.26	16.34	16.23	17.80
	CP-OFDM 16QAM	1	1	16.62	16.70	16.57	17.80

	CP-OFDM 64QAM	1	1	16.22	16.33	16.18	17.80
	CP-OFDM 256QAM	1	1	15.19	15.29	15.16	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	16.43	16.52	16.38	17.80
		1	160	16.74	16.78	16.72	17.80
		81	40	16.59	16.66	16.53	17.80
		162	0	16.56	16.65	16.51	17.80
	DFT-s-OFDM QPSK	1	1	16.33	16.41	16.29	17.80
		1	160	16.85	16.91	16.79	17.80
		81	40	16.57	16.65	16.56	17.80
		162	0	16.62	16.69	16.61	17.80
	DFT-s-OFDM 16QAM	1	1	16.20	16.23	16.19	17.80
		1	160	16.72	16.79	16.67	17.80
		81	40	16.50	16.55	16.45	17.80
	DFT-s-OFDM 64QAM	1	1	16.13	16.21	16.06	17.80
		1	160	16.62	16.71	16.57	17.80
		81	40	16.54	16.62	16.50	17.80
	DFT-s-OFDM 256QAM	1	1	16.36	16.43	16.28	17.80
		1	160	16.70	16.73	16.64	17.80
		81	40	16.60	16.67	16.55	17.80
	CP-OFDM QPSK	1	1	16.21	16.26	16.16	17.80
	CP-OFDM 16QAM	1	1	16.58	16.66	16.51	17.80
	CP-OFDM 64QAM	1	1	16.19	16.28	16.14	17.80
	CP-OFDM 256QAM	1	1	15.17	15.25	15.13	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	16.40	16.50	16.34	17.80
		1	187	16.72	16.74	16.69	17.80
		92	45	16.56	16.61	16.49	17.80
		180	0	16.53	16.60	16.47	17.80
	DFT-s-OFDM QPSK	1	1	16.31	16.37	16.24	17.80
		1	187	16.83	16.89	16.75	17.80
		92	45	16.57	16.64	16.54	17.80
		180	0	16.62	16.65	16.58	17.80
	DFT-s-OFDM 16QAM	1	1	16.20	16.21	16.16	17.80
		1	187	16.69	16.77	16.63	17.80

		92	46	16.48	16.51	16.42	17.80
	DFT-s-OFDM 64QAM	1	1	16.10	16.16	16.02	17.80
		1	187	16.59	16.66	16.53	17.80
		92	46	16.52	16.58	16.45	17.80
	DFT-s-OFDM 256QAM	1	1	16.33	16.43	16.25	17.80
		1	187	16.67	16.75	16.61	17.80
		92	46	16.61	16.65	16.51	17.80
	CP-OFDM QPSK	1	1	16.19	16.22	16.17	17.80
	CP-OFDM 16QAM	1	1	16.55	16.61	16.47	17.80
	CP-OFDM 64QAM	1	1	16.16	16.23	16.10	17.80
	CP-OFDM 256QAM	1	1	15.15	15.21	15.08	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	16.42	16.51	16.37	17.80
		1	215	16.75	16.79	16.73	17.80
		108	54	16.58	16.65	16.52	17.80
		216	0	16.56	16.65	16.51	17.80
	DFT-s-OFDM QPSK	1	1	16.34	16.42	16.28	17.80
		1	215	16.85	16.93	16.80	17.80
		108	54	16.61	16.66	16.58	17.80
		216	0	16.66	16.68	16.60	17.80
	DFT-s-OFDM 16QAM	1	1	16.24	16.25	16.19	17.80
		1	215	16.72	16.79	16.66	17.80
		108	54	16.51	16.56	16.46	17.80
	DFT-s-OFDM 64QAM	1	1	16.12	16.20	16.05	17.80
		1	215	16.62	16.71	16.57	17.80
		108	54	16.55	16.63	16.49	17.80
	DFT-s-OFDM 256QAM	1	1	16.35	16.42	16.27	17.80
		1	215	16.70	16.75	16.64	17.80
		108	54	16.60	16.67	16.54	17.80
	CP-OFDM QPSK	1	1	16.22	16.27	16.17	17.80
	CP-OFDM 16QAM	1	1	16.57	16.65	16.50	17.80
	CP-OFDM 64QAM	1	1	16.19	16.28	16.14	17.80
	CP-OFDM 256QAM	1	1	15.18	15.26	15.12	17.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	16.38	16.43	16.32	17.80
		1	243	16.72	16.74	16.68	17.80
		120	60	16.53	16.59	16.45	17.80
		243	0	16.51	16.56	16.44	17.80
	DFT-s-OFDM QPSK	1	1	16.29	16.33	16.21	17.80
		1	243	16.79	16.85	16.72	17.80
		120	60	16.56	16.57	16.49	17.80
		243	0	16.61	16.62	16.53	17.80
	DFT-s-OFDM 16QAM	1	1	16.19	16.20	16.13	17.80
		1	243	16.67	16.72	16.61	17.80
		120	60	16.45	16.50	16.40	17.80
	DFT-s-OFDM 64QAM	1	1	16.06	16.13	15.98	17.80
		1	243	16.57	16.62	16.50	17.80
		120	60	16.50	16.54	16.42	17.80
	DFT-s-OFDM 256QAM	1	1	16.28	16.36	16.20	17.80
		1	243	16.64	16.70	16.58	17.80
		120	60	16.55	16.60	16.49	17.80
	CP-OFDM QPSK	1	1	16.16	16.21	16.11	17.80
	CP-OFDM 16QAM	1	1	16.51	16.58	16.43	17.80
	CP-OFDM 64QAM	1	1	16.14	16.19	16.07	17.80
	CP-OFDM 256QAM	1	1	15.13	15.17	15.05	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	16.25	/	17.80
		1	271	/	16.68	/	17.80
		135	67	/	16.43	/	17.80
		270	0	/	16.40	/	17.80
	DFT-s-OFDM QPSK	1	1	/	16.17	/	17.80
		1	271	/	16.68	/	17.80
		135	67	/	16.42	/	17.80
		270	0	/	16.50	/	17.80
	DFT-s-OFDM 16QAM	1	1	/	16.12	/	17.80
		1	271	/	16.56	/	17.80
		135	67	/	16.39	/	17.80
	DFT-s-OFDM 64QAM	1	1	/	15.95	/	17.80
		1	271	/	16.46	/	17.80
		135	67	/	16.38	/	17.80

	DFT-s-OFDM 256QAM	1	1	/	16.13	/	17.80
		1	271	/	16.53	/	17.80
		135	67	/	16.44	/	17.80
	CP-OFDM QPSK	1	1	/	16.10	/	17.80
	CP-OFDM 16QAM	1	1	/	16.40	/	17.80
	CP-OFDM 64QAM	1	1	/	16.03	/	17.80
	CP-OFDM 256QAM	1	1	/	15.01	/	17.00

NR n78 PC3							
Hotspot on-Div Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	12.22	12.23	12.19	13.10
		1	49	12.57	12.59	12.60	13.10
		25	12	12.52	12.45	12.51	13.10
		50	0	12.49	12.50	12.49	13.10
	DFT-s-OFDM QPSK	1	1	12.20	12.22	12.23	13.10
		1	49	12.75	12.67	12.71	13.10
		25	12	12.39	12.48	12.52	13.10
		50	0	12.32	12.37	12.44	13.10
	DFT-s-OFDM 16QAM	1	1	12.01	12.01	12.08	13.10
		1	49	12.64	12.61	12.60	13.10
		25	12	12.42	12.34	12.36	13.10
	DFT-s-OFDM 64QAM	1	1	12.09	12.00	12.04	13.10
		1	49	12.52	12.53	12.52	13.10
		25	12	12.45	12.47	12.48	13.10
	DFT-s-OFDM 256QAM	1	1	12.25	12.10	12.17	13.10
		1	49	12.62	12.49	12.56	13.10
		25	12	12.50	12.43	12.42	13.10
	CP-OFDM QPSK	1	1	12.15	12.07	12.13	13.10
	CP-OFDM 16QAM	1	1	12.53	12.44	12.48	13.10
	CP-OFDM 64QAM	1	1	12.04	12.05	12.04	13.10
	CP-OFDM 256QAM	1	1	11.87	11.89	11.90	13.10

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	12.24	12.24	12.22	13.10
		1	76	12.60	12.64	12.64	13.10
		36	18	12.54	12.49	12.54	13.10
		75	0	12.52	12.55	12.53	13.10
	DFT-s-OFDM QPSK	1	1	12.23	12.27	12.27	13.10
		1	76	12.77	12.71	12.76	13.10
		36	18	12.43	12.50	12.56	13.10
		75	0	12.36	12.40	12.46	13.10
	DFT-s-OFDM 16QAM	1	1	12.05	12.05	12.11	13.10
		1	76	12.67	12.63	12.63	13.10
		36	18	12.45	12.39	12.40	13.10
	DFT-s-OFDM 64QAM	1	1	12.11	12.04	12.07	13.10
		1	76	12.55	12.58	12.56	13.10
		36	18	12.48	12.52	12.52	13.10
	DFT-s-OFDM 256QAM	1	1	12.27	12.09	12.19	13.10
		1	76	12.65	12.49	12.59	13.10
		36	18	12.49	12.45	12.45	13.10
	CP-OFDM QPSK	1	1	12.18	12.12	12.13	13.10
	CP-OFDM 16QAM	1	1	12.55	12.48	12.51	13.10
	CP-OFDM 64QAM	1	1	12.07	12.10	12.08	13.10
	CP-OFDM 256QAM	1	1	11.90	11.94	11.94	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	12.23	12.20	12.20	13.10
		1	104	12.58	12.63	12.61	13.10
		50	25	12.51	12.44	12.50	13.10
		100	0	12.50	12.51	12.50	13.10
	DFT-s-OFDM QPSK	1	1	12.20	12.22	12.23	13.10
		1	104	12.74	12.68	12.72	13.10
		50	25	12.41	12.46	12.51	13.10
		100	0	12.34	12.38	12.44	13.10
	DFT-s-OFDM 16QAM	1	1	12.03	12.02	12.09	13.10
		1	104	12.65	12.59	12.60	13.10
		50	25	12.42	12.37	12.37	13.10
	DFT-s-OFDM 64QAM	1	1	12.08	11.99	12.03	13.10
		1	104	12.53	12.54	12.53	13.10
		50	25	12.45	12.47	12.48	13.10

	DFT-s-OFDM 256QAM	1	1	12.22	12.07	12.17	13.10
		1	104	12.63	12.46	12.57	13.10
		50	25	12.50	12.44	12.46	13.10
	CP-OFDM QPSK	1	1	12.17	12.14	12.14	13.10
	CP-OFDM 16QAM	1	1	12.53	12.45	12.50	13.10
	CP-OFDM 64QAM	1	1	12.05	12.06	12.05	13.10
	CP-OFDM 256QAM	1	1	11.87	11.89	11.90	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	12.20	12.16	12.17	13.10
		1	131	12.57	12.59	12.59	13.10
		64	32	12.49	12.43	12.47	13.10
		128	0	12.47	12.46	12.46	13.10
	DFT-s-OFDM QPSK	1	1	12.18	12.18	12.20	13.10
		1	131	12.71	12.63	12.68	13.10
		64	32	12.38	12.41	12.47	13.10
		128	0	12.31	12.34	12.39	13.10
	DFT-s-OFDM 16QAM	1	1	12.00	12.00	12.05	13.10
		1	131	12.62	12.56	12.58	13.10
		64	32	12.39	12.33	12.34	13.10
	DFT-s-OFDM 64QAM	1	1	12.05	11.97	12.00	13.10
		1	131	12.50	12.49	12.49	13.10
		64	32	12.43	12.43	12.45	13.10
	DFT-s-OFDM 256QAM	1	1	12.20	12.03	12.12	13.10
		1	131	12.59	12.44	12.53	13.10
		64	32	12.44	12.38	12.40	13.10
	CP-OFDM QPSK	1	1	12.12	12.06	12.07	13.10
	CP-OFDM 16QAM	1	1	12.49	12.41	12.44	13.10
	CP-OFDM 64QAM	1	1	12.02	12.01	12.01	13.10
	CP-OFDM 256QAM	1	1	11.85	11.85	11.87	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	12.17	12.14	12.13	13.10
		1	160	12.55	12.55	12.56	13.10
		81	40	12.46	12.38	12.43	13.10

		162	0	12.44	12.41	12.42	13.10
	DFT-s-OFDM QPSK	1	1	12.16	12.14	12.15	13.10
		1	160	12.69	12.61	12.64	13.10
		81	40	12.38	12.40	12.45	13.10
		162	0	12.31	12.30	12.36	13.10
	DFT-s-OFDM 16QAM	1	1	12.00	11.98	12.02	13.10
		1	160	12.59	12.54	12.54	13.10
		81	40	12.37	12.29	12.31	13.10
	DFT-s-OFDM 64QAM	1	1	12.02	11.92	11.96	13.10
		1	160	12.47	12.44	12.45	13.10
		81	40	12.41	12.39	12.40	13.10
	DFT-s-OFDM 256QAM	1	1	12.17	12.03	12.09	13.10
		1	160	12.56	12.46	12.50	13.10
		81	40	12.45	12.36	12.36	13.10
	CP-OFDM QPSK	1	1	12.10	12.02	12.08	13.10
	CP-OFDM 16QAM	1	1	12.46	12.36	12.40	13.10
	CP-OFDM 64QAM	1	1	11.99	11.96	11.97	13.10
	CP-OFDM 256QAM	1	1	11.83	11.81	11.82	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	12.19	12.15	12.16	13.10
		1	187	12.58	12.60	12.60	13.10
		92	45	12.48	12.42	12.46	13.10
		180	0	12.47	12.46	12.46	13.10
	DFT-s-OFDM QPSK	1	1	12.19	12.19	12.19	13.10
		1	187	12.71	12.65	12.69	13.10
		92	45	12.42	12.42	12.49	13.10
		180	0	12.35	12.33	12.38	13.10
	DFT-s-OFDM 16QAM	1	1	12.04	12.02	12.05	13.10
		1	187	12.62	12.56	12.57	13.10
		92	46	12.40	12.34	12.35	13.10
	DFT-s-OFDM 64QAM	1	1	12.04	11.96	11.99	13.10
		1	187	12.50	12.49	12.49	13.10
		92	46	12.44	12.44	12.44	13.10
	DFT-s-OFDM 256QAM	1	1	12.19	12.02	12.11	13.10
		1	187	12.59	12.46	12.53	13.10
		92	46	12.44	12.38	12.39	13.10
	CP-OFDM QPSK	1	1	12.13	12.07	12.08	13.10

	CP-OFDM 16QAM	1	1	12.48	12.40	12.43	13.10
	CP-OFDM 64QAM	1	1	12.02	12.01	12.01	13.10
	CP-OFDM 256QAM	1	1	11.86	11.86	11.86	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	12.18	12.11	12.14	13.10
		1	215	12.56	12.59	12.57	13.10
		108	54	12.45	12.37	12.42	13.10
		216	0	12.45	12.42	12.43	13.10
	DFT-s-OFDM QPSK	1	1	12.16	12.14	12.15	13.10
		1	215	12.68	12.62	12.65	13.10
		108	54	12.40	12.38	12.44	13.10
		216	0	12.33	12.31	12.36	13.10
	DFT-s-OFDM 16QAM	1	1	12.02	11.99	12.03	13.10
		1	215	12.60	12.52	12.54	13.10
		108	54	12.37	12.32	12.32	13.10
	DFT-s-OFDM 64QAM	1	1	12.01	11.91	11.95	13.10
		1	215	12.48	12.45	12.46	13.10
		108	54	12.41	12.39	12.40	13.10
	DFT-s-OFDM 256QAM	1	1	12.14	12.00	12.09	13.10
		1	215	12.57	12.43	12.51	13.10
		108	54	12.45	12.37	12.40	13.10
	CP-OFDM QPSK	1	1	12.12	12.09	12.09	13.10
	CP-OFDM 16QAM	1	1	12.46	12.37	12.42	13.10
	CP-OFDM 64QAM	1	1	12.00	11.97	11.98	13.10
	CP-OFDM 256QAM	1	1	11.83	11.81	11.82	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	12.15	12.07	12.11	13.10
		1	243	12.55	12.55	12.55	13.10
		120	60	12.43	12.36	12.39	13.10
		243	0	12.42	12.37	12.39	13.10
	DFT-s-OFDM QPSK	1	1	12.14	12.10	12.12	13.10
		1	243	12.65	12.57	12.61	13.10
		120	60	12.37	12.33	12.40	13.10
		243	0	12.30	12.27	12.31	13.10

	DFT-s-OFDM 16QAM	1	1	11.99	11.97	11.99	13.10
		1	243	12.57	12.49	12.52	13.10
		120	60	12.34	12.28	12.29	13.10
	DFT-s-OFDM 64QAM	1	1	11.98	11.89	11.92	13.10
		1	243	12.45	12.40	12.42	13.10
		120	60	12.39	12.35	12.37	13.10
	DFT-s-OFDM 256QAM	1	1	12.12	11.96	12.04	13.10
		1	243	12.53	12.41	12.47	13.10
		120	60	12.39	12.31	12.34	13.10
	CP-OFDM QPSK	1	1	12.07	12.01	12.02	13.10
	CP-OFDM 16QAM	1	1	12.42	12.33	12.36	13.10
	CP-OFDM 64QAM	1	1	11.97	11.92	11.94	13.10
	CP-OFDM 256QAM	1	1	11.81	11.77	11.79	13.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	11.93	/	13.10
		1	271	/	12.46	/	13.10
		135	67	/	12.22	/	13.10
		270	0	/	12.21	/	13.10
	DFT-s-OFDM QPSK	1	1	/	11.93	/	13.10
		1	271	/	12.42	/	13.10
		135	67	/	12.17	/	13.10
		270	0	/	12.13	/	13.10
	DFT-s-OFDM 16QAM	1	1	/	11.86	/	13.10
		1	271	/	12.36	/	13.10
		135	67	/	12.17	/	13.10
	DFT-s-OFDM 64QAM	1	1	/	11.74	/	13.10
		1	271	/	12.24	/	13.10
		135	67	/	12.18	/	13.10
	DFT-s-OFDM 256QAM	1	1	/	11.82	/	13.10
		1	271	/	12.30	/	13.10
		135	67	/	12.18	/	13.10
	CP-OFDM QPSK	1	1	/	11.90	/	13.10
	CP-OFDM 16QAM	1	1	/	12.18	/	13.10
	CP-OFDM 64QAM	1	1	/	11.76	/	13.10
	CP-OFDM	1	1	/	11.60	/	13.10

	256QAM						

NR n78 PC3							
Receiver on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	22.86	22.85	22.92	24.00
		1	49	22.83	22.81	22.88	24.00
		25	12	22.92	22.88	23.00	24.00
		50	0	22.10	22.09	22.15	23.50
	DFT-s-OFDM QPSK	1	1	22.77	22.84	22.82	24.00
		1	49	22.66	22.83	22.87	24.00
		25	12	22.77	22.88	22.75	24.00
		50	0	21.78	21.89	21.80	23.00
	DFT-s-OFDM 16QAM	1	1	21.75	21.69	21.77	23.00
		1	49	21.87	21.86	21.87	23.00
		25	12	21.95	21.84	21.90	23.00
	DFT-s-OFDM 64QAM	1	1	20.31	20.26	20.31	21.50
		1	49	20.44	20.41	20.43	21.50
		25	12	20.44	20.38	20.44	21.50
	DFT-s-OFDM 256QAM	1	1	18.51	18.45	18.47	19.50
		1	49	18.62	18.51	18.55	19.50
		25	12	18.47	18.43	18.43	19.50
	CP-OFDM QPSK	1	1	21.20	21.10	21.15	22.50
	CP-OFDM 16QAM	1	1	20.61	20.56	20.61	22.00
	CP-OFDM 64QAM	1	1	19.28	19.22	19.27	20.50
	CP-OFDM 256QAM	1	1	16.45	16.40	16.45	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	22.89	22.89	22.95	24.00
		1	76	22.84	22.85	22.90	24.00
		36	18	22.94	22.89	23.03	24.00
		75	0	22.13	22.14	22.19	23.50
	DFT-s-OFDM QPSK	1	1	22.79	22.88	22.85	24.00
		1	76	22.69	22.88	22.91	24.00
		36	18	22.80	22.93	22.79	24.00
		75	0	21.81	21.93	21.85	23.00
	DFT-s-OFDM 16QAM	1	1	21.78	21.71	21.81	23.00
		1	76	21.90	21.89	21.89	23.00

		36	18	21.98	21.88	21.93	23.00
	DFT-s-OFDM 64QAM	1	1	20.34	20.28	20.34	21.50
		1	76	20.47	20.46	20.47	21.50
		36	18	20.46	20.42	20.47	21.50
	DFT-s-OFDM 256QAM	1	1	18.53	18.49	18.52	19.50
		1	76	18.66	18.53	18.59	19.50
		36	18	18.53	18.49	18.49	19.50
	CP-OFDM QPSK	1	1	21.25	21.18	21.22	22.50
	CP-OFDM 16QAM	1	1	20.65	20.60	20.67	22.00
	CP-OFDM 64QAM	1	1	19.31	19.27	19.31	20.50
	CP-OFDM 256QAM	1	1	16.47	16.44	16.48	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	22.83	22.83	22.88	24.00
		1	104	22.81	22.77	22.85	24.00
		50	25	22.89	22.83	22.96	24.00
		100	0	22.07	22.04	22.11	23.50
	DFT-s-OFDM QPSK	1	1	22.75	22.80	22.77	24.00
		1	104	22.64	22.81	22.83	24.00
		50	25	22.77	22.87	22.73	24.00
		100	0	21.78	21.85	21.77	23.00
	DFT-s-OFDM 16QAM	1	1	21.75	21.67	21.74	23.00
		1	104	21.84	21.84	21.83	23.00
		50	25	21.93	21.80	21.87	23.00
	DFT-s-OFDM 64QAM	1	1	20.28	20.21	20.27	21.50
		1	104	20.41	20.36	20.39	21.50
		50	25	20.42	20.34	20.39	21.50
	DFT-s-OFDM 256QAM	1	1	18.48	18.45	18.44	19.50
		1	104	18.59	18.53	18.52	19.50
		50	25	18.48	18.41	18.39	19.50
	CP-OFDM QPSK	1	1	21.18	21.06	21.16	22.50
	CP-OFDM 16QAM	1	1	20.58	20.51	20.57	22.00
	CP-OFDM 64QAM	1	1	19.25	19.17	19.23	20.50
	CP-OFDM 256QAM	1	1	16.43	16.36	16.40	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	22.85	22.84	22.91	24.00
		1	131	22.84	22.82	22.89	24.00
		64	32	22.91	22.87	22.99	24.00
		128	0	22.10	22.09	22.15	23.50
	DFT-s-OFDM QPSK	1	1	22.78	22.85	22.81	24.00
		1	131	22.66	22.85	22.88	24.00
		64	32	22.81	22.89	22.77	24.00
		128	0	21.82	21.88	21.79	23.00
	DFT-s-OFDM 16QAM	1	1	21.79	21.71	21.77	23.00
		1	131	21.87	21.86	21.86	23.00
		64	32	21.96	21.85	21.91	23.00
	DFT-s-OFDM 64QAM	1	1	20.30	20.25	20.30	21.50
		1	131	20.44	20.41	20.43	21.50
		64	32	20.45	20.39	20.43	21.50
	DFT-s-OFDM 256QAM	1	1	18.50	18.44	18.46	19.50
		1	131	18.62	18.53	18.55	19.50
		64	32	18.47	18.43	18.42	19.50
	CP-OFDM QPSK	1	1	21.21	21.11	21.16	22.50
	CP-OFDM 16QAM	1	1	20.60	20.55	20.60	22.00
	CP-OFDM 64QAM	1	1	19.28	19.22	19.27	20.50
	CP-OFDM 256QAM	1	1	16.46	16.41	16.44	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	22.90	22.93	22.97	24.00
		1	160	22.86	22.86	22.93	24.00
		81	40	22.97	22.94	23.07	24.00
		162	0	22.15	22.18	22.22	23.50
	DFT-s-OFDM QPSK	1	1	22.82	22.93	22.89	24.00
		1	160	22.72	22.91	22.95	24.00
		81	40	22.82	22.97	22.84	24.00
		162	0	21.83	21.95	21.87	23.00
	DFT-s-OFDM 16QAM	1	1	21.80	21.74	21.83	23.00
		1	160	21.92	21.93	21.92	23.00
		81	40	22.01	21.90	21.96	23.00
	DFT-s-OFDM 64QAM	1	1	20.37	20.33	20.38	21.50
		1	160	20.49	20.50	20.50	21.50
		81	40	20.49	20.47	20.51	21.50

	DFT-s-OFDM 256QAM	1	1	18.58	18.51	18.54	19.50
		1	160	18.68	18.56	18.61	19.50
		81	40	18.52	18.50	18.48	19.50
	CP-OFDM QPSK	1	1	21.26	21.16	21.21	22.50
	CP-OFDM 16QAM	1	1	20.67	20.63	20.68	22.00
	CP-OFDM 64QAM	1	1	19.33	19.31	19.34	20.50
	CP-OFDM 256QAM	1	1	16.50	16.49	16.52	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	22.84	22.80	22.89	24.00
		1	187	22.82	22.81	22.86	24.00
		92	45	22.88	22.82	22.95	24.00
		180	0	22.08	22.05	22.12	23.50
	DFT-s-OFDM QPSK	1	1	22.75	22.80	22.77	24.00
		1	187	22.63	22.82	22.84	24.00
		92	45	22.79	22.85	22.72	24.00
		180	0	21.80	21.86	21.77	23.00
	DFT-s-OFDM 16QAM	1	1	21.77	21.68	21.75	23.00
		1	187	21.85	21.82	21.83	23.00
		92	46	21.93	21.83	21.88	23.00
	DFT-s-OFDM 64QAM	1	1	20.27	20.20	20.26	21.50
		1	187	20.42	20.37	20.40	21.50
		92	46	20.42	20.34	20.39	21.50
	DFT-s-OFDM 256QAM	1	1	18.45	18.42	18.44	19.50
		1	187	18.60	18.50	18.53	19.50
		92	46	18.48	18.42	18.43	19.50
	CP-OFDM QPSK	1	1	21.20	21.13	21.17	22.50
	CP-OFDM 16QAM	1	1	20.58	20.52	20.59	22.00
	CP-OFDM 64QAM	1	1	19.26	19.18	19.24	20.50
	CP-OFDM 256QAM	1	1	16.43	16.36	16.40	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	22.88	22.92	22.94	24.00
		1	215	22.83	22.81	22.89	24.00
		108	54	22.95	22.90	23.04	24.00

		216	0	22.12	22.13	22.18	23.50
	DFT-s-OFDM QPSK	1	1	22.79	22.88	22.85	24.00
		1	215	22.70	22.87	22.90	24.00
		108	54	22.78	22.95	22.80	24.00
		216	0	21.79	21.92	21.85	23.00
	DFT-s-OFDM 16QAM	1	1	21.76	21.70	21.80	23.00
		1	215	21.89	21.91	21.89	23.00
		108	54	21.98	21.85	21.92	23.00
	DFT-s-OFDM 64QAM	1	1	20.35	20.29	20.35	21.50
		1	215	20.46	20.45	20.46	21.50
		108	54	20.46	20.42	20.47	21.50
	DFT-s-OFDM 256QAM	1	1	18.56	18.52	18.52	19.50
		1	215	18.65	18.56	18.58	19.50
		108	54	18.53	18.48	18.45	19.50
	CP-OFDM QPSK	1	1	21.23	21.11	21.21	22.50
	CP-OFDM 16QAM	1	1	20.65	20.59	20.65	22.00
	CP-OFDM 64QAM	1	1	19.30	19.26	19.30	20.50
	CP-OFDM 256QAM	1	1	16.47	16.44	16.48	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	22.81	22.76	22.86	24.00
		1	243	22.81	22.77	22.84	24.00
		120	60	22.86	22.81	22.92	24.00
		243	0	22.05	22.00	22.08	23.50
	DFT-s-OFDM QPSK	1	1	22.73	22.76	22.74	24.00
		1	243	22.60	22.77	22.80	24.00
		120	60	22.76	22.80	22.68	24.00
		243	0	21.77	21.82	21.72	23.00
	DFT-s-OFDM 16QAM	1	1	21.74	21.66	21.71	23.00
		1	243	21.82	21.79	21.81	23.00
		120	60	21.90	21.79	21.85	23.00
		243	0	20.24	20.18	20.23	21.50
	DFT-s-OFDM 64QAM	1	1	20.39	20.32	20.36	21.50
		1	243	20.40	20.30	20.36	21.50
		120	60	20.40	20.30	20.36	21.50
		243	0	18.43	18.38	18.39	19.50
	DFT-s-OFDM 256QAM	1	1	18.56	18.48	18.49	19.50
		1	243	18.56	18.48	18.49	19.50
		120	60	18.42	18.36	18.37	19.50
	CP-OFDM QPSK	1	1	21.15	21.05	21.10	22.50

	CP-OFDM 16QAM	1	1	20.54	20.48	20.53	22.00
	CP-OFDM 64QAM	1	1	19.23	19.13	19.20	20.50
	CP-OFDM 256QAM	1	1	16.41	16.32	16.37	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	22.70	/	24.00
		1	271	/	22.73	/	24.00
		135	67	/	22.73	/	24.00
		270	0	/	21.93	/	23.50
	DFT-s-OFDM QPSK	1	1	/	22.68	/	24.00
		1	271	/	22.70	/	24.00
		135	67	/	22.73	/	24.00
		270	0	/	21.74	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.60	/	23.00
		1	271	/	21.73	/	23.00
		135	67	/	21.74	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	20.10	/	21.50
		1	271	/	20.25	/	21.50
		135	67	/	20.22	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	18.30	/	19.50
		1	271	/	18.42	/	19.50
		135	67	/	18.30	/	19.50
	CP-OFDM QPSK	1	1	/	21.00	/	22.50
	CP-OFDM 16QAM	1	1	/	20.40	/	22.00
	CP-OFDM 64QAM	1	1	/	19.06	/	20.50
	CP-OFDM 256QAM	1	1	/	16.24	/	17.50

NR n78 PC3							
Receiver off-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	19.60	19.73	19.72	20.90
		1	49	19.91	19.94	19.98	20.90
		25	12	19.73	19.73	19.84	20.90
		50	0	19.73	19.81	19.86	20.90
	DFT-s-OFDM	1	1	19.53	19.61	19.66	20.90

	QPSK	1	49	19.89	19.95	20.01	20.90
		25	12	19.63	19.78	19.84	20.90
		50	0	19.66	19.72	19.82	20.90
	DFT-s-OFDM 16QAM	1	1	19.45	19.45	19.55	20.90
		1	49	19.86	19.94	19.95	20.90
		25	12	19.71	19.71	19.77	20.90
	DFT-s-OFDM 64QAM	1	1	19.09	19.10	19.19	20.90
		1	49	19.22	19.30	19.35	20.90
		25	12	19.08	19.16	19.21	20.90
	DFT-s-OFDM 256QAM	1	1	18.31	18.40	18.43	19.50
		1	49	18.40	18.43	18.47	19.50
		25	12	18.31	18.31	18.30	19.50
	CP-OFDM QPSK	1	1	19.67	19.73	19.77	20.90
	CP-OFDM 16QAM	1	1	20.00	20.06	20.14	20.90
	CP-OFDM 64QAM	1	1	19.04	19.08	19.08	20.50
	CP-OFDM 256QAM	1	1	16.28	16.36	16.38	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	19.62	19.74	19.75	20.90
		1	76	19.94	19.99	20.02	20.90
		36	18	19.75	19.77	19.87	20.90
		75	0	19.76	19.86	19.90	20.90
	DFT-s-OFDM QPSK	1	1	19.56	19.66	19.70	20.90
		1	76	19.91	19.99	20.06	20.90
		36	18	19.67	19.80	19.88	20.90
		75	0	19.70	19.75	19.84	20.90
	DFT-s-OFDM 16QAM	1	1	19.49	19.49	19.58	20.90
		1	76	19.89	19.96	19.98	20.90
		36	18	19.74	19.76	19.81	20.90
	DFT-s-OFDM 64QAM	1	1	19.11	19.14	19.22	20.90
		1	76	19.25	19.35	19.39	20.90
		36	18	19.11	19.21	19.25	20.90
	DFT-s-OFDM 256QAM	1	1	18.29	18.33	18.41	19.50
		1	76	18.40	18.43	18.46	19.50
		36	18	18.28	18.29	18.26	19.50
	CP-OFDM QPSK	1	1	19.65	19.69	19.74	20.90
	CP-OFDM 16QAM	1	1	19.98	20.02	20.11	20.90

	CP-OFDM 64QAM	1	1	19.00	19.04	19.05	20.50
	CP-OFDM 256QAM	1	1	16.27	16.29	16.33	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	19.61	19.70	19.73	20.90
		1	104	19.92	19.98	19.99	20.90
		50	25	19.72	19.72	19.83	20.90
		100	0	19.74	19.82	19.87	20.90
	DFT-s-OFDM QPSK	1	1	19.53	19.61	19.66	20.90
		1	104	19.88	19.96	20.02	20.90
		50	25	19.65	19.76	19.83	20.90
		100	0	19.68	19.73	19.82	20.90
	DFT-s-OFDM 16QAM	1	1	19.47	19.46	19.56	20.90
		1	104	19.87	19.92	19.95	20.90
		50	25	19.71	19.74	19.78	20.90
	DFT-s-OFDM 64QAM	1	1	19.08	19.09	19.18	20.90
		1	104	19.23	19.31	19.36	20.90
		50	25	19.08	19.16	19.21	20.90
	DFT-s-OFDM 256QAM	1	1	18.29	18.29	18.38	19.50
		1	104	18.40	18.41	18.43	19.50
		50	25	18.25	18.27	18.22	19.50
	CP-OFDM QPSK	1	1	19.63	19.65	19.71	20.90
	CP-OFDM 16QAM	1	1	19.95	19.97	20.07	20.90
	CP-OFDM 64QAM	1	1	18.97	18.99	19.01	20.50
	CP-OFDM 256QAM	1	1	16.25	16.25	16.28	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	19.68	19.84	19.82	20.90
		1	131	19.95	20.02	20.05	20.90
		64	32	19.82	19.85	19.96	20.90
		128	0	19.81	19.95	19.97	20.90
	DFT-s-OFDM QPSK	1	1	19.59	19.73	19.79	20.90
		1	131	19.97	20.03	20.12	20.90
		64	32	19.64	19.87	19.93	20.90
		128	0	19.67	19.83	19.93	20.90
	DFT-s-OFDM 16QAM	1	1	19.46	19.50	19.64	20.90
		1	131	19.94	20.03	20.05	20.90

		64	32	19.78	19.80	19.85	20.90
	DFT-s-OFDM 64QAM	1	1	19.19	19.23	19.31	20.90
		1	131	19.30	19.44	19.46	20.90
		64	32	19.14	19.28	19.34	20.90
	DFT-s-OFDM 256QAM	1	1	18.32	18.37	18.44	19.50
		1	131	18.41	18.47	18.48	19.50
		64	32	18.30	18.30	18.29	19.50
	CP-OFDM QPSK	1	1	19.68	19.74	19.78	20.90
	CP-OFDM 16QAM	1	1	20.00	20.06	20.14	20.90
	CP-OFDM 64QAM	1	1	19.03	19.09	19.09	20.50
	CP-OFDM 256QAM	1	1	16.30	16.34	16.37	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	19.65	19.82	19.78	20.90
		1	160	19.93	19.98	20.02	20.90
		81	40	19.79	19.80	19.92	20.90
		162	0	19.78	19.90	19.93	20.90
	DFT-s-OFDM QPSK	1	1	19.57	19.69	19.74	20.90
		1	160	19.95	20.01	20.08	20.90
		81	40	19.64	19.86	19.91	20.90
		162	0	19.67	19.79	19.90	20.90
	DFT-s-OFDM 16QAM	1	1	19.46	19.48	19.61	20.90
		1	160	19.91	20.01	20.01	20.90
		81	40	19.76	19.76	19.82	20.90
	DFT-s-OFDM 64QAM	1	1	19.16	19.18	19.27	20.90
		1	160	19.27	19.39	19.42	20.90
		81	40	19.12	19.24	19.29	20.90
	DFT-s-OFDM 256QAM	1	1	18.33	18.32	18.40	19.50
		1	160	18.44	18.45	18.46	19.50
		81	40	18.28	18.29	18.25	19.50
	CP-OFDM QPSK	1	1	19.66	19.70	19.75	20.90
	CP-OFDM 16QAM	1	1	19.97	20.01	20.10	20.90
	CP-OFDM 64QAM	1	1	19.00	19.04	19.05	20.50
	CP-OFDM 256QAM	1	1	16.28	16.30	16.32	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	19.67	19.83	19.81	20.90
		1	187	19.96	20.03	20.06	20.90
		92	45	19.81	19.84	19.95	20.90
		180	0	19.81	19.95	19.97	20.90
	DFT-s-OFDM QPSK	1	1	19.60	19.74	19.78	20.90
		1	187	19.97	20.05	20.13	20.90
		92	45	19.68	19.88	19.95	20.90
		180	0	19.71	19.82	19.92	20.90
	DFT-s-OFDM 16QAM	1	1	19.50	19.52	19.64	20.90
		1	187	19.94	20.03	20.04	20.90
		92	46	19.79	19.81	19.86	20.90
	DFT-s-OFDM 64QAM	1	1	19.18	19.22	19.30	20.90
		1	187	19.30	19.44	19.46	20.90
		92	46	19.15	19.29	19.33	20.90
	DFT-s-OFDM 256QAM	1	1	18.33	18.41	18.46	19.50
		1	187	18.43	18.48	18.51	19.50
		92	46	18.33	18.35	18.33	19.50
	CP-OFDM QPSK	1	1	19.70	19.78	19.81	20.90
	CP-OFDM 16QAM	1	1	20.03	20.11	20.18	20.90
	CP-OFDM 64QAM	1	1	19.06	19.12	19.13	20.50
	CP-OFDM 256QAM	1	1	16.32	16.38	16.42	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	19.66	19.79	19.79	20.90
		1	215	19.94	20.02	20.03	20.90
		108	54	19.78	19.79	19.91	20.90
		216	0	19.79	19.91	19.94	20.90
	DFT-s-OFDM QPSK	1	1	19.57	19.69	19.74	20.90
		1	215	19.94	20.02	20.09	20.90
		108	54	19.66	19.84	19.90	20.90
		216	0	19.69	19.80	19.90	20.90
	DFT-s-OFDM 16QAM	1	1	19.48	19.49	19.62	20.90
		1	215	19.92	19.99	20.01	20.90
		108	54	19.76	19.79	19.83	20.90
	DFT-s-OFDM 64QAM	1	1	19.15	19.17	19.26	20.90
		1	215	19.28	19.40	19.43	20.90
		108	54	19.12	19.24	19.29	20.90

	DFT-s-OFDM 256QAM	1	1	18.31	18.30	18.38	19.50
		1	215	18.42	18.42	18.44	19.50
		108	54	18.26	18.25	18.22	19.50
	CP-OFDM QPSK	1	1	19.63	19.68	19.72	20.90
	CP-OFDM 16QAM	1	1	19.94	19.96	20.06	20.90
	CP-OFDM 64QAM	1	1	18.98	19.00	19.02	20.50
	CP-OFDM 256QAM	1	1	16.25	16.25	16.28	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	19.58	19.66	19.70	20.90
		1	243	19.91	19.94	19.97	20.90
		120	60	19.70	19.71	19.80	20.90
		243	0	19.71	19.77	19.83	20.90
	DFT-s-OFDM QPSK	1	1	19.51	19.57	19.63	20.90
		1	243	19.85	19.91	19.98	20.90
		120	60	19.62	19.71	19.79	20.90
		243	0	19.65	19.69	19.77	20.90
	DFT-s-OFDM 16QAM	1	1	19.44	19.44	19.52	20.90
		1	243	19.84	19.89	19.93	20.90
		120	60	19.68	19.70	19.75	20.90
	DFT-s-OFDM 64QAM	1	1	19.05	19.07	19.15	20.90
		1	243	19.20	19.26	19.32	20.90
		120	60	19.06	19.12	19.18	20.90
	DFT-s-OFDM 256QAM	1	1	18.28	18.26	18.33	19.50
		1	243	18.39	18.40	18.40	19.50
		120	60	18.23	18.22	18.20	19.50
	CP-OFDM QPSK	1	1	19.60	19.64	19.69	20.90
	CP-OFDM 16QAM	1	1	19.91	19.94	20.03	20.90
	CP-OFDM 64QAM	1	1	18.95	18.95	18.98	20.50
	CP-OFDM 256QAM	1	1	16.23	16.21	16.25	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	19.50	/	20.90
		1	271	/	19.88	/	20.90
		135	67	/	19.62	/	20.90

		270	0	/	19.63	/	20.90
	DFT-s-OFDM QPSK	1	1	/	19.45	/	20.90
		1	271	/	19.76	/	20.90
		135	67	/	19.58	/	20.90
		270	0	/	19.61	/	20.90
	DFT-s-OFDM 16QAM	1	1	/	19.40	/	20.90
		1	271	/	19.76	/	20.90
		135	67	/	19.60	/	20.90
	DFT-s-OFDM 64QAM	1	1	/	18.95	/	20.90
		1	271	/	19.12	/	20.90
		135	67	/	19.00	/	20.90
	DFT-s-OFDM 256QAM	1	1	/	18.28	/	19.50
		1	271	/	18.38	/	19.50
		135	67	/	18.25	/	19.50
	CP-OFDM QPSK	1	1	/	19.50	/	20.90
	CP-OFDM 16QAM	1	1	/	19.80	/	20.90
	CP-OFDM 64QAM	1	1	/	18.94	/	20.50
	CP-OFDM 256QAM	1	1	/	16.20	/	17.50

NR n78 PC3							
Hotspot on-Div Ant3				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	14.92	15.16	15.02	16.10
		1	49	15.27	15.41	15.36	16.10
		25	12	15.13	15.27	15.23	16.10
		50	0	15.14	15.40	15.27	16.10
	DFT-s-OFDM QPSK	1	1	14.89	15.15	15.04	16.10
		1	49	15.35	15.53	15.46	16.10
		25	12	15.08	15.37	15.27	16.10
		50	0	14.84	15.03	14.99	16.10
	DFT-s-OFDM 16QAM	1	1	15.22	15.34	15.33	16.10
		1	49	15.09	15.27	15.17	16.10
		25	12	14.77	14.89	14.83	16.10
	DFT-s-OFDM 64QAM	1	1	15.21	15.37	15.30	16.10
		1	49	15.07	15.33	15.20	16.10
		25	12	14.94	15.20	15.09	16.10
	DFT-s-OFDM 256QAM	1	1	15.33	15.43	15.39	16.10
		1	49	15.08	15.14	15.13	16.10

		25	12	14.92	15.10	15.00	16.10
	CP-OFDM QPSK	1	1	14.92	15.04	14.98	16.10
	CP-OFDM 16QAM	1	1	15.32	15.48	15.41	16.10
	CP-OFDM 64QAM	1	1	14.98	15.24	15.11	16.10
	CP-OFDM 256QAM	1	1	14.77	15.03	14.92	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	14.89	15.14	14.98	16.10
		1	76	15.25	15.37	15.33	16.10
		36	18	15.10	15.22	15.19	16.10
		75	0	15.11	15.35	15.23	16.10
	DFT-s-OFDM QPSK	1	1	14.87	15.11	14.99	16.10
		1	76	15.33	15.51	15.42	16.10
		36	18	15.08	15.36	15.25	16.10
		75	0	14.84	14.99	14.96	16.10
	DFT-s-OFDM 16QAM	1	1	15.22	15.32	15.30	16.10
		1	76	15.06	15.25	15.13	16.10
		36	18	14.75	14.85	14.80	16.10
	DFT-s-OFDM 64QAM	1	1	15.18	15.32	15.26	16.10
		1	76	15.04	15.28	15.16	16.10
		36	18	14.92	15.16	15.04	16.10
	DFT-s-OFDM 256QAM	1	1	15.30	15.43	15.36	16.10
		1	76	15.05	15.16	15.10	16.10
		36	18	14.93	15.08	14.96	16.10
	CP-OFDM QPSK	1	1	14.90	15.00	14.99	16.10
	CP-OFDM 16QAM	1	1	15.29	15.43	15.37	16.10
	CP-OFDM 64QAM	1	1	14.95	15.19	15.07	16.10
	CP-OFDM 256QAM	1	1	14.75	14.99	14.87	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	14.91	15.15	15.01	16.10
		1	104	15.28	15.42	15.37	16.10
		50	25	15.12	15.26	15.22	16.10
		100	0	15.14	15.40	15.27	16.10
	DFT-s-OFDM	1	1	14.90	15.16	15.03	16.10

	QPSK	1	104	15.35	15.55	15.47	16.10
		50	25	15.12	15.38	15.29	16.10
		100	0	14.88	15.02	14.98	16.10
	DFT-s-OFDM 16QAM	1	1	15.26	15.36	15.33	16.10
		1	104	15.09	15.27	15.16	16.10
		50	25	14.78	14.90	14.84	16.10
	DFT-s-OFDM 64QAM	1	1	15.20	15.36	15.29	16.10
		1	104	15.07	15.33	15.20	16.10
		50	25	14.95	15.21	15.08	16.10
	DFT-s-OFDM 256QAM	1	1	15.32	15.42	15.38	16.10
		1	104	15.08	15.16	15.13	16.10
		50	25	14.92	15.10	14.99	16.10
	CP-OFDM QPSK	1	1	14.93	15.05	14.99	16.10
	CP-OFDM 16QAM	1	1	15.31	15.47	15.40	16.10
	CP-OFDM 64QAM	1	1	14.98	15.24	15.11	16.10
	CP-OFDM 256QAM	1	1	14.78	15.04	14.91	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	14.95	15.20	15.05	16.10
		1	131	15.28	15.45	15.38	16.10
		64	32	15.15	15.28	15.26	16.10
		128	0	15.17	15.45	15.31	16.10
	DFT-s-OFDM QPSK	1	1	14.91	15.19	15.07	16.10
		1	131	15.38	15.58	15.50	16.10
		64	32	15.11	15.42	15.31	16.10
		128	0	14.87	15.07	15.04	16.10
	DFT-s-OFDM 16QAM	1	1	15.25	15.36	15.37	16.10
		1	131	15.12	15.30	15.19	16.10
		64	32	14.80	14.93	14.86	16.10
	DFT-s-OFDM 64QAM	1	1	15.24	15.39	15.33	16.10
		1	131	15.10	15.38	15.24	16.10
		64	32	14.96	15.24	15.12	16.10
	DFT-s-OFDM 256QAM	1	1	15.35	15.47	15.44	16.10
		1	131	15.12	15.16	15.17	16.10
		64	32	14.98	15.16	15.06	16.10
	CP-OFDM QPSK	1	1	14.97	15.12	15.05	16.10
	CP-OFDM 16QAM	1	1	15.36	15.52	15.47	16.10

	CP-OFDM 64QAM	1	1	15.01	15.29	15.15	16.10
	CP-OFDM 256QAM	1	1	14.79	15.07	14.95	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	14.96	15.24	15.07	16.10
		1	160	15.30	15.46	15.41	16.10
		81	40	15.18	15.33	15.30	16.10
		162	0	15.19	15.49	15.34	16.10
	DFT-s-OFDM QPSK	1	1	14.94	15.24	15.11	16.10
		1	160	15.41	15.61	15.54	16.10
		81	40	15.13	15.46	15.36	16.10
		162	0	14.89	15.09	15.06	16.10
	DFT-s-OFDM 16QAM	1	1	15.27	15.39	15.39	16.10
		1	160	15.14	15.34	15.22	16.10
		81	40	14.83	14.95	14.89	16.10
	DFT-s-OFDM 64QAM	1	1	15.27	15.44	15.37	16.10
		1	160	15.12	15.42	15.27	16.10
		81	40	14.99	15.29	15.16	16.10
	DFT-s-OFDM 256QAM	1	1	15.40	15.49	15.46	16.10
		1	160	15.14	15.19	15.19	16.10
		81	40	14.97	15.17	15.05	16.10
	CP-OFDM QPSK	1	1	14.98	15.10	15.04	16.10
	CP-OFDM 16QAM	1	1	15.38	15.55	15.48	16.10
	CP-OFDM 64QAM	1	1	15.03	15.33	15.18	16.10
	CP-OFDM 256QAM	1	1	14.82	15.12	14.99	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	14.90	15.11	14.99	16.10
		1	187	15.26	15.41	15.34	16.10
		92	45	15.09	15.21	15.18	16.10
		180	0	15.12	15.36	15.24	16.10
	DFT-s-OFDM QPSK	1	1	14.87	15.11	14.99	16.10
		1	187	15.32	15.52	15.43	16.10
		92	45	15.10	15.34	15.24	16.10
		180	0	14.86	15.00	14.96	16.10
	DFT-s-OFDM 16QAM	1	1	15.24	15.33	15.31	16.10
		1	187	15.07	15.23	15.13	16.10

		92	46	14.75	14.88	14.81	16.10
	DFT-s-OFDM 64QAM	1	1	15.17	15.31	15.25	16.10
		1	187	15.05	15.29	15.17	16.10
		92	46	14.92	15.16	15.04	16.10
	DFT-s-OFDM 256QAM	1	1	15.27	15.40	15.36	16.10
		1	187	15.06	15.13	15.11	16.10
		92	46	14.93	15.09	15.00	16.10
	CP-OFDM QPSK	1	1	14.92	15.07	15.00	16.10
	CP-OFDM 16QAM	1	1	15.29	15.44	15.39	16.10
	CP-OFDM 64QAM	1	1	14.96	15.20	15.08	16.10
	CP-OFDM 256QAM	1	1	14.75	14.99	14.87	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	14.94	15.23	15.04	16.10
		1	215	15.27	15.41	15.37	16.10
		108	54	15.16	15.29	15.27	16.10
		216	0	15.16	15.44	15.30	16.10
	DFT-s-OFDM QPSK	1	1	14.91	15.19	15.07	16.10
		1	215	15.39	15.57	15.49	16.10
		108	54	15.09	15.44	15.32	16.10
		216	0	14.85	15.06	15.04	16.10
	DFT-s-OFDM 16QAM	1	1	15.23	15.35	15.36	16.10
		1	215	15.11	15.32	15.19	16.10
		108	54	14.80	14.90	14.85	16.10
	DFT-s-OFDM 64QAM	1	1	15.25	15.40	15.34	16.10
		1	215	15.09	15.37	15.23	16.10
		108	54	14.96	15.24	15.12	16.10
	DFT-s-OFDM 256QAM	1	1	15.38	15.50	15.44	16.10
		1	215	15.11	15.19	15.16	16.10
		108	54	14.98	15.15	15.02	16.10
	CP-OFDM QPSK	1	1	14.95	15.05	15.04	16.10
	CP-OFDM 16QAM	1	1	15.36	15.51	15.45	16.10
	CP-OFDM 64QAM	1	1	15.00	15.28	15.14	16.10
	CP-OFDM 256QAM	1	1	14.79	15.07	14.95	16.10

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	14.87	15.07	14.96	16.10
		1	243	15.25	15.37	15.32	16.10
		120	60	15.07	15.20	15.15	16.10
		243	0	15.09	15.31	15.20	16.10
	DFT-s-OFDM QPSK	1	1	14.85	15.07	14.96	16.10
		1	243	15.29	15.47	15.39	16.10
		120	60	15.07	15.29	15.20	16.10
		243	0	14.83	14.96	14.91	16.10
	DFT-s-OFDM 16QAM	1	1	15.21	15.31	15.27	16.10
		1	243	15.04	15.20	15.11	16.10
		120	60	14.72	14.84	14.78	16.10
	DFT-s-OFDM 64QAM	1	1	15.14	15.29	15.22	16.10
		1	243	15.02	15.24	15.13	16.10
		120	60	14.90	15.12	15.01	16.10
	DFT-s-OFDM 256QAM	1	1	15.25	15.36	15.31	16.10
		1	243	15.02	15.11	15.07	16.10
		120	60	14.87	15.03	14.94	16.10
	CP-OFDM QPSK	1	1	14.87	14.99	14.93	16.10
	CP-OFDM 16QAM	1	1	15.25	15.40	15.33	16.10
	CP-OFDM 64QAM	1	1	14.93	15.15	15.04	16.10
	CP-OFDM 256QAM	1	1	14.73	14.95	14.84	16.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	14.77	/	16.10
		1	271	/	15.18	/	16.10
		135	67	/	14.94	/	16.10
		270	0	/	14.97	/	16.10
	DFT-s-OFDM QPSK	1	1	/	14.72	/	16.10
		1	271	/	15.16	/	16.10
		135	67	/	14.95	/	16.10
		270	0	/	14.70	/	16.10
	DFT-s-OFDM 16QAM	1	1	/	15.10	/	16.10
		1	271	/	14.93	/	16.10
		135	67	/	14.61	/	16.10
	DFT-s-OFDM 64QAM	1	1	/	15.00	/	16.10
		1	271	/	14.90	/	16.10
		135	67	/	14.77	/	16.10

	DFT-s-OFDM 256QAM	1	1	/	15.10	/	16.10
		1	271	/	14.90	/	16.10
		135	67	/	14.76	/	16.10
	CP-OFDM QPSK	1	1	/	14.76	/	16.10
	CP-OFDM 16QAM	1	1	/	15.11	/	16.10
	CP-OFDM 64QAM	1	1	/	14.81	/	16.10
	CP-OFDM 256QAM	1	1	/	14.60	/	16.10

9.6 WLAN Mode

Wi-Fi 2.4G Ant7 Receiver off Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	19.00	17.42
	6/2437	19.00	17.06
	11/2462	19.00	17.11
802.11g (6M)	1/2412	16.00	14.63
	2/2417	19.00	17.83
	6/2437	19.00	17.26
	11/2462	16.00	14.51
802.11n-HT20 (MCS0)	1/2412	15.00	13.53
	2/2417	19.00	17.63
	6/2437	19.00	17.09
	11/2462	16.00	14.34
802.11n-HT40 (MCS0)	3/2422	13.00	11.65
	6/2437	18.00	16.36
	9/2452	15.50	13.68

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G Ant7 Receiver on Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	16.00	14.83
	6/2437	16.00	15.02
	11/2462	16.00	15.00
802.11g (6M)	1/2412	16.00	14.70
	6/2437	16.00	14.37
	11/2462	16.00	14.51
802.11n-HT20 (MCS0)	1/2412	15.00	13.47
	2/2417	16.00	14.60
	6/2437	16.00	14.12
	11/2462	16.00	14.34
802.11n-HT40 (MCS0)	3/2422	13.00	11.32
	6/2437	16.00	14.33
	9/2452	15.50	13.68

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G Ant7 Hotspot on Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	18.00	16.55
	6/2437	18.00	16.20
	11/2462	18.00	16.28
802.11g (6M)	1/2412	16.00	14.63
	2/2417	18.00	16.54
	6/2437	18.00	16.20
	11/2462	16.00	14.51
802.11n-HT20 (MCS0)	1/2412	15.00	13.49
	2/2417	18.00	16.61
	6/2437	18.00	16.16
	11/2462	16.00	14.34
802.11n-HT40 (MCS0)	3/2422	13.00	11.76
	6/2437	18.00	16.30
	9/2452	15.50	13.68

Note: Initial test configuration is 802.11b mode.

5GHz Wi-Fi U-NII-1 Ant8 Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	36/5180	16.00	14.15
	40/5200	18.00	16.22
	44/5220	18.00	16.42
	48/5240	18.00	16.57
802.11nHT20(MCS0)	36/5180	16.00	14.15
	40/5200	18.00	16.20
	44/5220	18.00	16.25
	48/5240	18.00	16.40
802.11nHT40(MCS0)	38/5190	14.00	12.10
	46/5230	18.00	16.47
802.11ac-VHT20(MCS0)	36/5180	16.00	14.20
	40/5200	18.00	16.15
	44/5220	18.00	16.21
	48/5240	18.00	16.39
802.11ac-VHT40(MCS0)	38/5190	14.00	12.23
	46/5230	18.00	16.46
802.11ac-VHT80(MCS0)	42/5210	12.50	11.02

5GHz Wi-Fi U-NII-2A Ant8 Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	52/5260	18.00	16.76
	56/5280	18.00	16.85
	60/5300	18.00	16.92
	64/5320	17.00	15.80
802.11nHT20(MCS0)	52/5260	18.00	16.56
	56/5280	18.00	16.70
	60/5300	18.00	16.76
	64/5320	17.00	15.62
802.11nHT40(MCS0)	54/5270	18.00	16.69
	62/5310	11.00	10.14
802.11ac-VHT20(MCS0)	52/5260	18.00	16.49
	56/5280	18.00	16.67
	60/5300	18.00	16.74
	64/5320	17.00	15.63
802.11ac-VHT40(MCS0)	54/5270	18.00	16.65
	62/5310	11.00	10.12
802.11ac-VHT80(MCS0)	58/5290	10.50	9.03

5GHz Wi-Fi U-NII-2C Ant8 Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	11.00	10.82
	104/5520	18.00	17.33
	116/5580	18.00	16.89
	132/5660	18.00	16.84
	140/5700	9.00	7.30
802.11nHT20 (MCS0)	100/5500	11.00	10.82
	104/5520	18.00	17.16
	116/5580	18.00	16.75
	132/5660	18.00	16.68
	140/5700	9.00	7.53
802.11nHT40 (MCS0)	102/5510	12.50	12.13
	110/5550	18.00	17.01
	118/5590	18.00	16.77
	126/5630	18.00	17.17
	134/5670	14.00	13.05
802.11ac-VHT20 (MCS0)	100/5500	11.00	10.80
	104/5520	18.00	17.16

	116/5580	18.00	16.70
	132/5660	18.00	16.67
	140/5700	9.00	7.70
802.11ac-VHT40 (MCS0)	102/5510	12.50	12.11
	110/5550	18.00	17.06
	118/5590	18.00	16.78
	126/5530	18.00	17.15
	134/5670	14.00	13.05
802.11ac-VHT80 (MCS0)	106/5530	10.00	8.05
	122/5610	17.00	15.63
	138/5690	17.00	15.63

5GHz Wi-Fi U-NII-3 Ant8 Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	149/5745	18.00	16.80
	157/5785	18.00	16.58
	165/5825	18.00	16.17
802.11nHT20(MCS0)	149/5745	18.00	16.48
	157/5785	18.00	16.44
	165/5825	18.00	16.01
802.11nHT40(MCS0)	151/5755	18.00	16.73
	159/5795	18.00	16.32
802.11ac-VHT20(MCS0)	149/5745	18.00	16.67
	157/5785	18.00	16.42
	165/5825	18.00	16.02
802.11ac-VHT40(MCS0)	151/5755	18.00	16.72
	159/5795	18.00	16.33
802.11ac-VHT80(MCS0)	155/5775	16.00	14.70

5GHz Wi-Fi U-NII-1 Ant8 Receiver on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	36/5180	15.00	13.20
	40/5200	15.00	13.40
	44/5220	15.00	13.65
	48/5240	15.00	13.70
802.11nHT20(MCS0)	36/5180	15.00	13.19
	40/5200	15.00	13.28
	44/5220	15.00	13.46
	48/5240	15.00	13.52
802.11nHT40(MCS0)	38/5190	14.00	12.26

	46/5230	15.00	13.68
802.11ac-VHT20(MCS0)	36/5180	15.00	13.20
	40/5200	15.00	13.30
	44/5220	15.00	13.45
	48/5240	15.00	13.47
802.11ac-VHT40(MCS0)	38/5190	14.00	12.23
	46/5230	15.00	13.68
802.11ac-VHT80(MCS0)	42/5210	12.50	11.02

5GHz Wi-Fi U-NII-2A Ant8 Receiver on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	52/5260	15.00	13.83
	56/5280	15.00	14.02
	60/5300	15.00	14.08
	64/5320	15.00	14.10
802.11nHT20(MCS0)	52/5260	15.00	13.76
	56/5280	15.00	13.85
	60/5300	15.00	13.91
	64/5320	15.00	13.91
802.11nHT40(MCS0)	54/5270	15.00	13.82
	62/5310	11.00	10.14
802.11ac-VHT20(MCS0)	52/5260	15.00	13.72
	56/5280	15.00	13.82
	60/5300	15.00	13.99
	64/5320	15.00	13.94
802.11ac-VHT40(MCS0)	54/5270	15.00	13.95
	62/5310	11.00	10.12
802.11ac-VHT80(MCS0)	58/5290	10.50	9.03

5GHz Wi-Fi U-NII-2C Ant8 Receiver on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	11.00	10.82
	104/5520	15.00	14.72
	116/5580	15.00	14.22
	132/5660	15.00	14.12
	140/5700	9.00	7.30
802.11nHT20 (MCS0)	100/5500	11.00	10.82
	104/5520	15.00	14.53
	116/5580	15.00	14.04
	132/5660	15.00	13.93

	140/5700	9.00	7.53
802.11nHT40 (MCS0)	102/5510	12.50	12.13
	110/5550	15.00	14.29
	118/5590	15.00	14.06
	126/5630	15.00	14.49
	134/5670	14.00	13.05
802.11ac-VHT20 (MCS0)	100/5500	11.00	10.80
	104/5520	15.00	14.48
	116/5580	15.00	13.98
	132/5660	15.00	13.95
	140/5700	9.00	7.70
802.11ac-VHT40 (MCS0)	102/5510	12.50	12.11
	110/5550	15.00	14.26
	118/5590	15.00	14.04
	126/5530	15.00	14.46
	134/5670	14.00	13.05
802.11ac-VHT80 (MCS0)	106/5530	10.00	8.05
	122/5610	15.00	14.02
	138/5690	15.00	13.88

5GHz Wi-Fi U-NII-3 Ant8 Receiver on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	149/5745	15.00	14.07
	157/5785	15.00	13.76
	165/5825	15.00	13.32
802.11nHT20(MCS0)	149/5745	15.00	13.88
	157/5785	15.00	13.56
	165/5825	15.00	13.18
802.11nHT40(MCS0)	151/5755	15.00	13.99
	159/5795	15.00	13.61
802.11ac-VHT20(MCS0)	149/5745	15.00	13.89
	157/5785	15.00	13.59
	165/5825	15.00	13.18
802.11ac-VHT40(MCS0)	151/5755	15.00	13.96
	159/5795	15.00	13.62
802.11ac-VHT80(MCS0)	155/5775	15.00	13.86

5GHz Wi-Fi U-NII-1 Ant8 Hotspot on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	36/5180	16.00	14.15
	40/5200	17.00	15.12
	44/5220	17.00	15.38
	48/5240	17.00	15.50
802.11nHT20(MCS0)	36/5180	16.00	14.15
	40/5200	17.00	15.04
	44/5220	17.00	15.22
	48/5240	17.00	15.33
802.11nHT40(MCS0)	38/5190	14.00	12.26
	46/5230	17.00	15.43
802.11ac-VHT20(MCS0)	36/5180	16.00	14.20
	40/5200	17.00	15.03
	44/5220	17.00	15.18
	48/5240	17.00	15.29
802.11ac-VHT40(MCS0)	38/5190	14.00	12.23
	46/5230	17.00	15.42
802.11ac-VHT80(MCS0)	42/5210	12.50	11.02

5GHz Wi-Fi U-NII-2A Ant8 Hotspot on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	52/5260	17.00	15.70
	56/5280	17.00	15.81
	60/5300	17.00	15.90
	64/5320	17.00	15.80
802.11nHT20(MCS0)	52/5260	17.00	15.48
	56/5280	17.00	15.66
	60/5300	17.00	15.71
	64/5320	17.00	15.62
802.11nHT40(MCS0)	54/5270	17.00	15.68
	62/5310	11.00	10.14
802.11ac-VHT20(MCS0)	52/5260	17.00	15.50
	56/5280	17.00	15.59
	60/5300	17.00	15.69
	64/5320	17.00	15.63
802.11ac-VHT40(MCS0)	54/5270	17.00	15.70
	62/5310	11.00	10.12
802.11ac-VHT80(MCS0)	58/5290	10.50	9.03

5GHz Wi-Fi U-NII-2C Ant8 Hotspot on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	11.00	10.82
	104/5520	17.00	16.30
	116/5580	17.00	15.89
	132/5660	17.00	15.93
	140/5700	9.00	7.30
802.11nHT20 (MCS0)	100/5500	11.00	10.82
	104/5520	17.00	16.16
	116/5580	17.00	15.75
	132/5660	17.00	15.76
	140/5700	9.00	7.53
802.11nHT40 (MCS0)	102/5510	12.50	12.13
	110/5550	17.00	16.01
	118/5590	17.00	15.82
	126/5630	17.00	16.17
	134/5670	14.00	13.05
802.11ac-VHT20 (MCS0)	100/5500	11.00	10.80
	104/5520	17.00	16.20
	116/5580	17.00	15.72
	132/5660	17.00	15.77
	140/5700	9.00	7.70
802.11ac-VHT40 (MCS0)	102/5510	12.50	12.11
	110/5550	17.00	16.01
	118/5590	17.00	15.83
	126/5530	17.00	16.17
	134/5670	14.00	13.05
802.11ac-VHT80 (MCS0)	106/5530	10.00	8.05
	122/5610	17.00	15.63
	138/5690	17.00	15.63

5GHz Wi-Fi U-NII-3 Ant8 Hotspot on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	149/5745	17.00	15.88
	157/5785	17.00	15.53
	165/5825	17.00	15.05
802.11nHT20(MCS0)	149/5745	17.00	15.70
	157/5785	17.00	15.35
	165/5825	17.00	15.02

802.11nHT40(MCS0)	151/5755	17.00	15.81
	159/5795	17.00	15.46
802.11ac-VHT20(MCS0)	149/5745	17.00	15.72
	157/5785	17.00	15.41
	165/5825	17.00	15.06
802.11ac-VHT40(MCS0)	151/5755	17.00	15.82
	159/5795	17.00	15.45
802.11ac-VHT80(MCS0)	155/5775	16.00	14.70

9.7 Bluetooth Mode

Bluetooth	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	13.14	12.99	12.82	14.50
π /4DQPSK	9.85	9.45	10.39	12.50
8DPSK	9.86	9.45	10.39	12.50
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK(1M)	4.85	5.01	7.10	10.50
GFSK(2M)	2.02	2.20	4.28	10.50

10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations

The Detailed Antenna Locations refer to *Antenna Locations*.

Main-Antenna	ANT 0	GSM 850/ WCDMA Band V/ LTE Band 5/12/13/26
	ANT 1	GSM 1900/ WCDMA Band II/ IV/ LTE Band 2/4/7/66/ NR Band 2/7/66
	ANT 5	LTE Band 38/41/ NR Band 38/41/78
Div-Antenna	ANT 1	LTE Band 38/41/ NR Band 38/41
	ANT 2	GSM 1900/ WCDMA Band II/ IV/LTE Band 2/4/7/38/41/66/ NR Band 2/7/38/41/66/78
	ANT 3	LTE Band 38/41/ NR Band 38/41/78
	ANT 4	NR Band 78
Bluetooth/Wi-Fi 2.4G Antenna	ANT 7	Bluetooth/Wi-Fi 2.4G
Wi-Fi 5G Antenna	ANT 8	Wi-Fi 5G

Overall (Length x Width): 163.62 mm x 75.23 mm Overall Diagonal: 172.60 mm/Display Diagonal: 160.60mm							
Distance of the Antenna to the EUT Surface/Edge							
Antenna		Back Side	Front Side	Left Edge	Right Edge	Top Edge	Bottom Edge
Main-Antenna	ANT 0	<25mm	<25mm	<25mm	>25mm	>25mm	<25mm
	ANT 1	<25mm	<25mm	>25mm	<25mm	>25mm	<25mm
	ANT 5	<25mm	<25mm	>25mm	<25mm	<25mm	>25mm
Div-Antenna	ANT 1	<25mm	<25mm	>25mm	<25mm	>25mm	<25mm
	ANT 2	<25mm	<25mm	<25mm	>25mm	<25mm	>25mm
	ANT 3	<25mm	<25mm	<25mm	>25mm	>25mm	>25mm
	ANT 4	<25mm	<25mm	>25mm	<25mm	>25mm	>25mm
Bluetooth/Wi-Fi 2.4G Antenna	ANT 7	<25mm	<25mm	>25mm	<25mm	<25mm	>25mm
Wi-Fi 5G Antenna	ANT 8	<25mm	<25mm	>25mm	<25mm	<25mm	>25mm
Hotspot mode, Positions for SAR Tests							
Mode		Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
Main-Antenna	ANT 0	Yes	Yes	Yes	N/A	N/A	Yes
	ANT 1	Yes	Yes	N/A	Yes	N/A	Yes
	ANT 5	Yes	Yes	N/A	Yes	Yes	N/A
Div-Antenna	ANT 1	Yes	Yes	N/A	Yes	N/A	Yes
	ANT 2	Yes	Yes	Yes	N/A	Yes	N/A
	ANT 3	Yes	Yes	Yes	N/A	N/A	N/A
	ANT 4	Yes	Yes	N/A	Yes	N/A	N/A
Bluetooth/Wi-Fi 2.4G Antenna	ANT 7	Yes	Yes	N/A	Yes	Yes	N/A

Wi-Fi 5G Antenna	ANT 8	Yes	Yes	N/A	Yes	Yes	N/A
Note: 1. Per KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge. 2. For smart phones with an overall diagonal dimension is 172.60mm. Per KDB 648474 D04, for smart phones with a display diagonal dimension $> 15.0\text{ cm}$ or an overall diagonal dimension $> 16.0\text{ cm}$, product specific 10-g SAR must be tested as a phablet to determine SAR compliance. For Phablet, Since hotspot mode 1-g <i>reported</i> SAR $< 1.2\text{W/kg}$, product specific 10-g SAR is no required. 3. Per FCC KDB 447498 D01, for each exposure position, testing of other requised channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is: a) $\leq 0.8\text{ W/kg}$ or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is $\leq 100\text{MHz}$ b) $\leq 0.6\text{ W/kg}$ or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz. c) $\leq 0.4\text{ W/kg}$ or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$. 4. When the original highest measured SAR is $\geq 0.80\text{ W/kg}$, the measurement was repeated once. 5. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was $\leq 1.2\text{ W/kg}$, no additional SAR evaluations using a headset cable were required.							

10.2 Measured SAR Results

Note:

- The value with blue color is the maximum SAR Value of each test band.
 - For GSM, when multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.
 - For WCDMA, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.
 - For LTE, QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are $\geq 50\%$ limit (1g).
 - Per 248227, for band U-NII-1 and U-NII-2A, when the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 - The highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
- Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.

Head SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No
GSM 850	Main (ANT 0)	Left cheek	0	GSM	Receiver on	-	-	190/836.6	33.80	33.66	0.129	0.044	1.03	0.133	/
		Left Tilt	0	GSM	Receiver on	-	-	190/836.6	33.80	33.66	0.071	0.020	1.03	0.073	/
		Right cheek	0	GSM	Receiver on	-	-	190/836.6	33.80	33.66	0.106	0.060	1.03	0.109	/
		Right Tilt	0	GSM	Receiver on	-	-	190/836.6	33.80	33.66	0.061	0.010	1.03	0.063	/
	Main (ANT 0)	Left cheek Battery 2	0	GSM	Receiver on	-	-	190/836.6	33.80	33.66	0.103	-0.170	1.03	0.106	/
		Left cheek Battery 3	0	GSM	Receiver on	-	-	190/836.6	33.80	33.66	0.141	0.035	1.03	0.146	51
		Left cheek Battery 4	0	GSM	Receiver on	-	-	190/836.6	33.80	33.66	0.105	0.012	1.03	0.108	/
GSM 1900	Main (ANT 1)	Left cheek	0	GSM	Receiver on	-	-	661/1880	31.00	29.42	0.072	0.060	1.44	0.104	/
		Left Tilt	0	GSM	Receiver on	-	-	661/1880	31.00	29.42	0.061	0.120	1.44	0.088	/
		Right cheek	0	GSM	Receiver on	-	-	661/1880	31.00	29.42	0.084	-0.030	1.44	0.121	/
		Right Tilt	0	GSM	Receiver on	-	-	661/1880	31.00	29.42	0.049	-0.05	1.44	0.071	/
	Div (ANT 2)	Left cheek	0	GSM	Receiver on	-	-	661/1880	25.10	24.35	0.251	0.07	1.19	0.298	/
		Left Tilt	0	GSM	Receiver on	-	-	661/1880	25.10	24.35	0.360	0.020	1.19	0.428	/
		Right cheek	0	GSM	Receiver on	-	-	661/1880	25.10	24.35	0.349	-0.010	1.19	0.415	/
		Right Tilt	0	GSM	Receiver on	-	-	661/1880	25.10	24.35	0.453	-0.030	1.19	0.538	/
	Div (ANT 2)	Right Tilt Battery 2	0	GSM	Receiver on	-	-	661/1880	25.10	24.35	0.488	-0.110	1.19	0.580	/
		Right Tilt	0	GSM	Receiver on	-	-	661/1880	25.10	24.35	0.493	0.160	1.19	0.586	/

		Battery 3													
		Right Tilt	0	GSM	Receiver on	-	-	661/1880	25.10	24.35	0.584	0.120	1.19	0.694	52
		Battery 4													
WCDMA II	Main (ANT 1)	Left cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	25.00	23.87	0.138	0.010	1.30	0.179	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	25.00	23.87	0.113	0.060	1.30	0.147	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	25.00	23.87	0.147	-0.060	1.30	0.191	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	25.00	23.87	0.101	0.010	1.30	0.131	/
	Div (ANT 2)	Left cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	15.10	13.88	0.296	0.030	1.32	0.392	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	15.10	13.88	0.422	0.026	1.32	0.559	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	15.10	13.88	0.432	-0.020	1.32	0.572	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	15.10	13.88	0.487	-0.120	1.32	0.645	/
	Div (ANT 2)	Right Tilt Battery 2	0	RMC 12.2K	Receiver on	-	-	9400/1880	15.10	13.88	0.465	0.019	1.32	0.616	/
		Right Tilt Battery 3	0	RMC 12.2K	Receiver on	-	-	9400/1880	15.10	13.88	0.502	-0.010	1.32	0.665	53
		Right Tilt Battery 4	0	RMC 12.2K	Receiver on	-	-	9400/1880	15.10	13.88	0.499	0.033	1.32	0.661	/
WCDMA IV	Main (ANT 1)	Left cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	25.00	24.05	0.185	0.028	1.24	0.230	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	25.00	24.05	0.133	-0.040	1.24	0.166	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	25.00	24.05	0.182	0.020	1.24	0.227	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	25.00	24.05	0.130	-0.030	1.24	0.162	/
	Div (ANT 2)	Left cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	19.50	18.72	0.301	-0.010	1.20	0.360	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	19.50	18.72	0.435	0.000	1.20	0.521	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	19.50	18.72	0.463	0.010	1.20	0.554	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	19.50	18.72	0.573	0.017	1.20	0.686	54
	Div (ANT 2)	Right Tilt Battery 2	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	19.50	18.72	0.535	-0.020	1.20	0.640	/
		Right Tilt Battery 3	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	19.50	18.72	0.505	0.040	1.20	0.604	/
		Right Tilt Battery 4	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	19.50	18.72	0.481	0.146	1.20	0.576	/
WCDMA V	Main (ANT 0)	Left cheek	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.00	23.88	0.118	0.030	1.29	0.153	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.00	23.88	0.059	0.030	1.29	0.076	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.00	23.88	0.105	0.040	1.29	0.136	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.00	23.88	0.054	0.030	1.29	0.070	/
	Main (ANT 0)	Left cheek Battery 2	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.00	23.88	0.136	-0.070	1.29	0.176	/
		Left cheek Battery 3	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.00	23.88	0.182	0.032	1.29	0.236	55
		Left cheek Battery 4	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.00	23.88	0.157	0.020	1.29	0.203	/
LTE 2	Main (ANT 1)	Left cheek	0	QPSK	Receiver on	1	50	18900/1880	24.50	22.94	0.097	-0.026	1.43	0.139	/
			0	QPSK	Receiver on	50%	0	18900/1880	23.50	22.03	0.076	0.037	1.40	0.107	/
		Left Tilt	0	QPSK	Receiver on	1	50	18900/1880	24.50	22.94	0.077	0.040	1.43	0.110	/

		Right cheek	0	QPSK	Receiver on	50%	0	18900/1880	23.50	22.03	0.062	0.019	1.40	0.087	/
			0	QPSK	Receiver on	1	50	18900/1880	24.50	22.94	0.093	0.057	1.43	0.134	/
			0	QPSK	Receiver on	50%	0	18900/1880	23.50	22.03	0.073	0.049	1.40	0.103	/
		Right Tilt	0	QPSK	Receiver on	1	50	18900/1880	24.50	22.94	0.083	0.060	1.43	0.118	/
			0	QPSK	Receiver on	50%	0	18900/1880	23.50	22.03	0.066	0.016	1.40	0.092	/
	Div (ANT 2)	Left cheek	0	QPSK	Receiver on	1	0	18900/1880	16.10	14.40	0.320	0.110	1.48	0.473	/
			0	QPSK	Receiver on	50%	25	18700/1860	16.10	14.47	0.322	0.020	1.46	0.469	/
		Left Tilt	0	QPSK	Receiver on	1	0	18900/1880	16.10	14.40	0.360	-0.080	1.48	0.532	/
			0	QPSK	Receiver on	50%	25	18700/1860	16.10	14.47	0.363	-0.010	1.46	0.528	/
		Right cheek	0	QPSK	Receiver on	1	0	18900/1880	16.10	14.40	0.471	-0.096	1.48	0.697	/
			0	QPSK	Receiver on	50%	25	18700/1860	16.10	14.47	0.460	0.069	1.46	0.670	/
		Right Tilt	0	QPSK	Receiver on	1	0	18900/1880	16.10	14.40	0.559	-0.020	1.48	0.827	/
			0	QPSK	Receiver on	1	50	18700/1860	16.10	14.33	0.512	0.070	1.50	0.770	/
			0	QPSK	Receiver on	1	50	19100/1900	16.10	14.32	0.568	-0.160	1.51	0.856	/
			0	QPSK	Receiver on	50%	25	18700/1860	16.10	14.47	0.560	0.029	1.46	0.815	/
			0	QPSK	Receiver on	50%	50	18900/1880	16.10	14.43	0.579	-0.091	1.47	0.851	/
			0	QPSK	Receiver on	50%	0	19100/1900	16.10	14.46	0.585	-0.190	1.46	0.853	/
			0	QPSK	Receiver on	100%	0	18700/1860	16.10	14.48	0.536	0.075	1.45	0.778	/
	Div (ANT 2)	Right Tilt SIM2	0	QPSK	Receiver on	1	50	19100/1900	16.10	14.32	0.542	-0.054	1.51	0.817	/
		Right Tilt Battery 2	0	QPSK	Receiver on	1	50	19100/1900	16.10	14.32	0.467	0.015	1.51	0.704	/
		Right Tilt Battery 3	0	QPSK	Receiver on	1	50	19100/1900	16.10	14.32	0.612	0.081	1.51	0.922	/
		Right Tilt Battery 4	0	QPSK	Receiver on	1	50	19100/1900	16.10	14.32	0.613	-0.010	1.51	0.924	56
LTE 4	Main (ANT 1)	Left cheek	0	QPSK	Receiver on	1	0	20300/1745	24.50	23.08	0.157	0.100	1.39	0.218	/
			0	QPSK	Receiver on	50%	25	20300/1745	23.50	22.14	0.128	0.025	1.37	0.175	/
		Left Tilt	0	QPSK	Receiver on	1	0	20300/1745	24.50	23.08	0.098	0.013	1.39	0.136	/
			0	QPSK	Receiver on	50%	25	20300/1745	23.50	22.14	0.075	0.080	1.37	0.103	/
		Right cheek	0	QPSK	Receiver on	1	0	20300/1745	24.50	23.08	0.121	0.032	1.39	0.168	/
			0	QPSK	Receiver on	50%	25	20300/1745	23.50	22.14	0.093	0.035	1.37	0.128	/
		Right Tilt	0	QPSK	Receiver on	1	0	20300/1745	24.50	23.08	0.118	0.080	1.39	0.164	/
			0	QPSK	Receiver on	50%	25	20300/1745	23.50	22.14	0.092	0.014	1.37	0.126	/
	Div (ANT 2)	Left cheek	0	QPSK	Receiver on	1	0	20050/1720	20.60	19.33	0.318	0.070	1.34	0.426	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	20.60	19.33	0.395	-0.010	1.34	0.529	/
		Left Tilt	0	QPSK	Receiver on	1	0	20050/1720	20.60	19.33	0.352	0.010	1.34	0.472	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	20.60	19.33	0.453	-0.010	1.34	0.607	/
		Right cheek	0	QPSK	Receiver on	1	0	20050/1720	20.60	19.33	0.440	-0.070	1.34	0.589	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	20.60	19.33	0.551	-0.020	1.34	0.738	/
		Right Tilt	0	QPSK	Receiver on	1	0	20050/1720	20.60	19.33	0.560	-0.050	1.34	0.750	/
			0	QPSK	Receiver on	50%	0	20175/1732.5	20.60	19.33	0.686	0.050	1.34	0.919	/
			0	QPSK	Receiver on	50%	25	20050/1720	20.60	19.30	0.476	-0.040	1.35	0.642	/

			0	QPSK	Receiver on	50%	0	20300/1745	20.60	19.32	0.564	-0.040	1.34	0.757	/
			0	QPSK	Receiver on	100%	0	20050/1720	20.60	19.32	0.552	-0.030	1.34	0.741	/
	Div (ANT 2)	Right Tilt Battery 2	0	QPSK	Receiver on	50%	0	20175/1732.5	20.60	19.33	0.699	-0.043	1.34	0.936	57
		Right Tilt Battery 3	0	QPSK	Receiver on	50%	0	20175/1732.5	20.60	19.33	0.419	-0.140	1.34	0.561	/
		Right Tilt Battery 4	0	QPSK	Receiver on	50%	0	20175/1732.5	20.60	19.33	0.675	-0.100	1.34	0.904	/
LTE 5	Main (ANT 0)	Left cheek	0	QPSK	Receiver on	1	0	20450/829	25.00	23.52	0.127	0.090	1.41	0.179	/
			0	QPSK	Receiver on	50%	0	20450/829	24.00	22.65	0.108	0.021	1.36	0.147	/
		Left Tilt	0	QPSK	Receiver on	1	0	20450/829	25.00	23.52	0.049	0.020	1.41	0.069	/
			0	QPSK	Receiver on	50%	0	20450/829	24.00	22.65	0.040	-0.044	1.36	0.055	/
		Right cheek	0	QPSK	Receiver on	1	0	20450/829	25.00	23.52	0.098	0.015	1.41	0.138	/
			0	QPSK	Receiver on	50%	0	20450/829	24.00	22.65	0.081	0.032	1.36	0.111	/
		Right Tilt	0	QPSK	Receiver on	1	0	20450/829	25.00	23.52	0.054	-0.028	1.41	0.076	/
			0	QPSK	Receiver on	50%	0	20450/829	24.00	22.65	0.044	0.160	1.36	0.060	/
	Main (ANT 0)	Left cheek Battery 2	0	QPSK	Receiver on	1	0	20450/829	25.00	23.52	0.138	0.050	1.41	0.194	/
		Left cheek Battery 3	0	QPSK	Receiver on	1	0	20450/829	25.00	23.52	0.156	0.064	1.41	0.219	58
		Left cheek Battery 4	0	QPSK	Receiver on	1	0	20450/829	25.00	23.52	0.112	0.040	1.41	0.157	/
LTE 7	Main (ANT 1)	Left cheek	0	QPSK	Receiver on	1	99	21100/2535	23.50	22.17	0.106	0.029	1.36	0.144	/
			0	QPSK	Receiver on	50%	50	21100/2535	22.50	21.22	0.093	0.047	1.34	0.125	/
		Left Tilt	0	QPSK	Receiver on	1	99	21100/2535	23.50	22.17	0.086	0.058	1.36	0.117	/
			0	QPSK	Receiver on	50%	50	21100/2535	22.50	21.22	0.069	0.056	1.34	0.093	/
		Right cheek	0	QPSK	Receiver on	1	99	21100/2535	23.50	22.17	0.180	0.013	1.36	0.244	/
			0	QPSK	Receiver on	50%	50	21100/2535	22.50	21.22	0.147	0.086	1.34	0.197	/
		Right Tilt	0	QPSK	Receiver on	1	99	21100/2535	23.50	22.17	0.120	0.026	1.36	0.163	/
			0	QPSK	Receiver on	50%	50	21100/2535	22.50	21.22	0.099	0.037	1.34	0.133	/
	Div (ANT 2)	Left cheek	0	QPSK	Receiver on	1	99	21100/2535	20.80	19.95	0.212	0.083	1.22	0.258	/
			0	QPSK	Receiver on	50%	50	21350/2560	20.80	20.02	0.240	0.024	1.20	0.287	/
		Left Tilt	0	QPSK	Receiver on	1	99	21100/2535	20.80	19.95	0.250	0.036	1.22	0.304	/
			0	QPSK	Receiver on	50%	50	21350/2560	20.80	20.02	0.275	0.036	1.20	0.329	/
		Right cheek	0	QPSK	Receiver on	1	99	21100/2535	20.80	19.95	0.416	0.190	1.22	0.506	/
			0	QPSK	Receiver on	50%	50	21350/2560	20.80	20.02	0.451	0.190	1.20	0.540	/
		Right Tilt	0	QPSK	Receiver on	1	99	21100/2535	20.80	19.95	0.372	-0.010	1.22	0.452	/
			0	QPSK	Receiver on	50%	50	21350/2560	20.80	20.02	0.404	0.037	1.20	0.483	/
	Div (ANT 2)	Right cheek Battery 2	0	QPSK	Receiver on	50%	50	21350/2560	20.80	20.02	0.502	-0.038	1.20	0.601	59
		Right cheek Battery 3	0	QPSK	Receiver on	50%	50	21350/2560	20.80	20.02	0.432	0.033	1.20	0.517	/
		Right cheek	0	QPSK	Receiver on	50%	50	21350/2560	20.80	20.02	0.465	0.014	1.20	0.556	/

		Battery 4													
LTE 12	Main (ANT 0)	Left cheek	0	QPSK	Receiver on	1	25	23095/707.5	25.00	23.59	0.083	0.049	1.38	0.115	/
			0	QPSK	Receiver on	50%	25	23130/711	24.00	22.69	0.068	0.011	1.35	0.091	/
		Left Tilt	0	QPSK	Receiver on	1	25	23095/707.5	25.00	23.59	0.036	-0.028	1.38	0.050	/
			0	QPSK	Receiver on	50%	25	23130/711	24.00	22.69	0.028	0.080	1.35	0.038	/
		Right cheek	0	QPSK	Receiver on	1	25	23095/707.5	25.00	23.59	0.077	0.085	1.38	0.107	/
			0	QPSK	Receiver on	50%	25	23130/711	24.00	22.69	0.061	0.012	1.35	0.082	/
		Right Tilt	0	QPSK	Receiver on	1	25	23095/707.5	25.00	23.59	0.049	-0.096	1.38	0.068	/
			0	QPSK	Receiver on	50%	25	23130/711	24.00	22.69	0.037	0.150	1.35	0.050	/
		Left cheek Battery 2	0	QPSK	Receiver on	1	25	23095/707.5	25.00	23.59	0.107	0.030	1.38	0.148	60
		Left cheek Battery 3	0	QPSK	Receiver on	1	25	23095/707.5	25.00	23.59	0.095	0.010	1.38	0.131	/
		Left cheek Battery 4	0	QPSK	Receiver on	1	25	23095/707.5	25.00	23.59	0.102	0.026	1.38	0.141	/
LTE 13	Main (ANT 0)	Left cheek	0	QPSK	Receiver on	1	0	23230/782	24.50	22.91	0.069	0.135	1.44	0.100	/
			0	QPSK	Receiver on	50%	25	23230/782	23.50	22.08	0.052	0.042	1.39	0.072	/
		Left Tilt	0	QPSK	Receiver on	1	0	23230/782	24.50	22.91	0.032	0.123	1.44	0.046	/
			0	QPSK	Receiver on	50%	25	23230/782	23.50	22.08	0.024	0.144	1.39	0.034	/
		Right cheek	0	QPSK	Receiver on	1	0	23230/782	24.50	22.91	0.061	0.028	1.44	0.088	/
			0	QPSK	Receiver on	50%	25	23230/782	23.50	22.08	0.050	-0.015	1.39	0.069	/
		Right Tilt	0	QPSK	Receiver on	1	0	23230/782	24.50	22.91	0.032	0.015	1.44	0.046	/
			0	QPSK	Receiver on	50%	25	23230/782	23.50	22.08	0.027	0.052	1.39	0.037	/
		Left cheek Battery 2	0	QPSK	Receiver on	1	0	23230/782	24.50	22.91	0.084	0.020	1.44	0.121	/
		Left cheek Battery 3	0	QPSK	Receiver on	1	0	23230/782	24.50	22.91	0.096	0.016	1.44	0.139	61
		Left cheek Battery 4	0	QPSK	Receiver on	1	0	23230/782	24.50	22.91	0.087	0.013	1.44	0.125	/
LTE 26	Main (ANT 0)	Left cheek	0	QPSK	Receiver on	1	0	26765/821.5	25.00	23.48	0.129	-0.020	1.42	0.183	62
			0	QPSK	Receiver on	50%	18	26765/821.5	24.00	22.55	0.098	0.085	1.40	0.137	/
		Left Tilt	0	QPSK	Receiver on	1	0	26765/821.5	25.00	23.48	0.049	0.060	1.42	0.069	/
			0	QPSK	Receiver on	50%	18	26765/821.5	24.00	22.55	0.040	0.071	1.40	0.056	/
		Right cheek	0	QPSK	Receiver on	1	0	26765/821.5	25.00	23.48	0.091	0.128	1.42	0.128	/
			0	QPSK	Receiver on	50%	18	26765/821.5	24.00	22.55	0.076	0.026	1.40	0.107	/
		Right Tilt	0	QPSK	Receiver on	1	0	26765/821.5	25.00	23.48	0.038	0.047	1.42	0.054	/
			0	QPSK	Receiver on	50%	18	26765/821.5	24.00	22.55	0.029	0.046	1.40	0.040	/
		Left cheek Battery 2	0	QPSK	Receiver on	1	0	26765/821.5	25.00	23.48	0.102	0.100	1.42	0.145	/
		Left cheek Battery 3	0	QPSK	Receiver on	1	0	26765/821.5	25.00	23.48	0.120	0.078	1.42	0.170	/
		Left cheek Battery 4	0	QPSK	Receiver on	1	0	26765/821.5	25.00	23.48	0.108	0.025	1.42	0.153	/

LTE 38	Main (ANT 5)	Left cheek	0	QPSK	Receiver on	1	50	37850/2580	21.50	20.93	0.596	-0.040	1.14	0.680	/
			0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.655	-0.010	1.11	0.725	63
		Left Tilt	0	QPSK	Receiver on	1	50	37850/2580	21.50	20.93	0.508	-0.060	1.14	0.579	/
			0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.520	0.030	1.11	0.575	/
		Right cheek	0	QPSK	Receiver on	1	50	37850/2580	21.50	20.93	0.216	-0.035	1.14	0.246	/
			0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.208	0.025	1.11	0.230	/
		Right Tilt	0	QPSK	Receiver on	1	50	37850/2580	21.50	20.93	0.229	-0.160	1.14	0.261	/
			0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.232	0.070	1.11	0.257	/
	Div (ANT 3)	Left cheek	0	QPSK	Receiver on	1	99	38000/2595	23.00	22.18	0.086	0.072	1.21	0.103	/
			0	QPSK	Receiver on	50%	0	37850/2580	22.00	21.17	0.062	0.090	1.21	0.075	/
		Left Tilt	0	QPSK	Receiver on	1	99	38000/2595	23.00	22.18	0.031	0.050	1.21	0.037	/
			0	QPSK	Receiver on	50%	0	37850/2580	22.00	21.17	0.021	0.107	1.21	0.025	/
		Right cheek	0	QPSK	Receiver on	1	99	38000/2595	23.00	22.18	0.128	0.139	1.21	0.155	/
			0	QPSK	Receiver on	50%	0	37850/2580	22.00	21.17	0.103	0.022	1.21	0.125	/
		Right Tilt	0	QPSK	Receiver on	1	99	38000/2595	23.00	22.18	0.051	0.052	1.21	0.062	/
			0	QPSK	Receiver on	50%	0	37850/2580	22.00	21.17	0.043	0.039	1.21	0.052	/
	Div (ANT 1)	Left cheek	0	QPSK	Receiver on	1	0	37850/2580	22.00	20.72	0.049	-0.034	1.34	0.066	/
			0	QPSK	Receiver on	50%	0	37850/2580	21.00	19.70	0.032	0.022	1.35	0.043	/
		Left Tilt	0	QPSK	Receiver on	1	0	37850/2580	22.00	20.72	0.030	0.082	1.34	0.041	/
			0	QPSK	Receiver on	50%	0	37850/2580	21.00	19.70	0.021	0.012	1.35	0.029	/
		Right cheek	0	QPSK	Receiver on	1	0	37850/2580	22.00	20.72	0.064	0.041	1.34	0.086	/
			0	QPSK	Receiver on	50%	0	37850/2580	21.00	19.70	0.059	0.021	1.35	0.080	/
		Right Tilt	0	QPSK	Receiver on	1	0	37850/2580	22.00	20.72	0.038	0.065	1.34	0.052	/
			0	QPSK	Receiver on	50%	0	37850/2580	21.00	19.70	0.031	0.012	1.35	0.042	/
	Div (ANT 2)	Left cheek	0	QPSK	Receiver on	1	99	38150/2610	20.90	20.57	0.162	0.040	1.08	0.175	/
			0	QPSK	Receiver on	50%	25	38150/2610	19.90	19.43	0.138	-0.025	1.11	0.154	/
		Left Tilt	0	QPSK	Receiver on	1	99	38150/2610	20.90	20.57	0.205	0.140	1.08	0.221	/
			0	QPSK	Receiver on	50%	25	38150/2610	19.90	19.43	0.168	0.103	1.11	0.187	/
		Right cheek	0	QPSK	Receiver on	1	99	38150/2610	20.90	20.57	0.320	0.038	1.08	0.345	/
			0	QPSK	Receiver on	50%	25	38150/2610	19.90	19.43	0.236	-0.070	1.11	0.263	/
		Right Tilt	0	QPSK	Receiver on	1	99	38150/2610	20.90	20.57	0.338	0.041	1.08	0.365	/
			0	QPSK	Receiver on	50%	25	38150/2610	19.90	19.43	0.285	-0.034	1.11	0.318	/
LTE 41 PC3	Main (ANT 5)	Left cheek Battery 2	0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.590	0.025	1.11	0.653	/
			0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.624	0.100	1.11	0.691	/
		Left cheek Battery 3	0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.578	0.012	1.11	0.640	/
			0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.578	0.012	1.11	0.640	/
		Left cheek Battery 4	0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.578	0.012	1.11	0.640	/
			0	QPSK	Receiver on	50%	25	37850/2580	21.50	21.06	0.578	0.012	1.11	0.640	/
		Right cheek	0	QPSK	Receiver on	1	99	40185/2549.5	21.90	20.76	0.518	0.023	1.30	0.673	/
			0	QPSK	Receiver on	50%	0	40185/2549.5	21.90	20.92	0.494	0.010	1.25	0.619	/
	Main (ANT 5)	Left Tilt	0	QPSK	Receiver on	1	99	40185/2549.5	21.90	20.76	0.526	0.140	1.30	0.684	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	21.90	20.92	0.532	0.010	1.25	0.667	/
		Right cheek	0	QPSK	Receiver on	1	99	40185/2549.5	21.90	20.76	0.217	-0.030	1.30	0.282	/
			0	QPSK	Receiver on	1	99	40185/2549.5	21.90	20.76	0.217	-0.030	1.30	0.282	/

LTE 41 PC2	Div (ANT 3)	Right Tilt	0	QPSK	Receiver on	50%	25	40185/2549.5	21.90	20.92	0.269	0.039	1.25	0.337	/
			0	QPSK	Receiver on	1	99	40185/2549.5	21.90	20.76	0.207	-0.060	1.30	0.269	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	21.90	20.92	0.205	0.070	1.25	0.257	/
		Left cheek	0	QPSK	Receiver on	1	99	40185/2549.5	23.00	22.14	0.076	0.130	1.22	0.093	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	22.00	21.13	0.063	0.060	1.22	0.077	/
		Left Tilt	0	QPSK	Receiver on	1	99	40185/2549.5	23.00	22.14	0.068	-0.110	1.22	0.083	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	22.00	21.13	0.055	-0.080	1.22	0.067	/
		Right cheek	0	QPSK	Receiver on	1	99	40185/2549.5	23.00	22.14	0.170	-0.080	1.22	0.207	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	22.00	21.13	0.145	-0.040	1.22	0.177	/
		Right Tilt	0	QPSK	Receiver on	1	99	40185/2549.5	23.00	22.14	0.063	0.010	1.22	0.077	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	22.00	21.13	0.048	-0.030	1.22	0.059	/
	Div (ANT 1)	Left cheek	0	QPSK	Receiver on	1	0	40185/2549.5	21.50	20.86	0.050	-0.023	1.16	0.058	/
			0	QPSK	Receiver on	50%	50	39750/2506	20.50	20.01	0.048	0.100	1.12	0.054	/
		Left Tilt	0	QPSK	Receiver on	1	0	40185/2549.5	21.50	20.86	0.028	-0.027	1.16	0.032	/
			0	QPSK	Receiver on	50%	50	39750/2506	20.50	20.01	0.026	-0.027	1.12	0.029	/
		Right cheek	0	QPSK	Receiver on	1	0	40185/2549.5	21.50	20.86	0.100	-0.139	1.16	0.116	/
			0	QPSK	Receiver on	50%	50	39750/2506	20.50	20.01	0.083	0.051	1.12	0.093	/
		Right Tilt	0	QPSK	Receiver on	1	0	40185/2549.5	21.50	20.86	0.041	0.057	1.16	0.048	/
			0	QPSK	Receiver on	50%	50	39750/2506	20.50	20.01	0.034	0.128	1.12	0.038	/
	Div (ANT 2)	Left cheek	0	QPSK	Receiver on	1	99	41055/2636.5	20.50	20.36	0.129	0.060	1.03	0.133	/
			0	QPSK	Receiver on	50%	25	41055/2636.5	19.50	19.31	0.094	0.069	1.04	0.099	/
		Left Tilt	0	QPSK	Receiver on	1	99	41055/2636.5	20.50	20.36	0.191	-0.031	1.03	0.197	/
			0	QPSK	Receiver on	50%	25	41055/2636.5	19.50	19.31	0.149	-0.032	1.04	0.156	/
		Right cheek	0	QPSK	Receiver on	1	99	41055/2636.5	20.50	20.36	0.337	0.038	1.03	0.348	/
			0	QPSK	Receiver on	50%	25	41055/2636.5	19.50	19.31	0.267	-0.027	1.04	0.279	/
		Right Tilt	0	QPSK	Receiver on	1	99	41055/2636.5	20.50	20.36	0.365	0.024	1.03	0.377	/
			0	QPSK	Receiver on	50%	25	41055/2636.5	19.50	19.31	0.297	0.028	1.04	0.310	/
	Main (ANT 5)	Left cheek	0	QPSK	Receiver on	1	99	40185/2549.5	23.50	23.09	0.468	0.036	1.10	0.514	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	23.50	23.20	0.470	0.010	1.07	0.504	/
		Left Tilt	0	QPSK	Receiver on	1	99	40185/2549.5	23.50	23.09	0.661	-0.010	1.10	0.726	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	23.50	23.20	0.667	0.020	1.07	0.715	/
		Right cheek	0	QPSK	Receiver on	1	99	40185/2549.5	23.50	23.09	0.303	0.050	1.10	0.333	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	23.50	23.20	0.322	0.021	1.07	0.345	/
		Right Tilt	0	QPSK	Receiver on	1	99	40185/2549.5	23.50	23.09	0.308	0.050	1.10	0.338	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	23.50	23.20	0.313	0.030	1.07	0.335	/
	Div (ANT 3)	Left cheek	0	QPSK	Receiver on	1	99	40620/2593	25.00	24.39	0.157	0.040	1.15	0.181	/
			0	QPSK	Receiver on	50%	50	40185/2549.5	24.00	23.53	0.116	0.070	1.11	0.129	/
		Left Tilt	0	QPSK	Receiver on	1	99	40620/2593	25.00	24.39	0.059	-0.028	1.15	0.068	/
			0	QPSK	Receiver on	50%	50	40185/2549.5	24.00	23.53	0.050	0.010	1.11	0.056	/
		Right cheek	0	QPSK	Receiver on	1	99	40620/2593	25.00	24.39	0.268	-0.060	1.15	0.308	/
			0	QPSK	Receiver on	50%	50	40185/2549.5	24.00	23.53	0.162	-0.020	1.11	0.181	/
		Right Tilt	0	QPSK	Receiver on	1	99	40620/2593	25.00	24.39	0.081	0.080	1.15	0.093	/
			0	QPSK	Receiver on	50%	50	40185/2549.5	24.00	23.53	0.062	-0.120	1.11	0.069	/

	Div (ANT 1)	Left cheek	0	QPSK	Receiver on	1	50	40185/2549.5	24.00	23.07	0.056	0.014	1.24	0.070	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	23.00	22.26	0.049	0.100	1.19	0.058	/
		Left Tilt	0	QPSK	Receiver on	1	50	40185/2549.5	24.00	23.07	0.041	0.094	1.24	0.051	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	23.00	22.26	0.035	0.075	1.19	0.042	/
		Right cheek	0	QPSK	Receiver on	1	50	40185/2549.5	24.00	23.07	0.104	0.100	1.24	0.129	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	23.00	22.26	0.090	0.040	1.19	0.106	/
		Right Tilt	0	QPSK	Receiver on	1	50	40185/2549.5	24.00	23.07	0.050	0.061	1.24	0.062	/
			0	QPSK	Receiver on	50%	25	40185/2549.5	23.00	22.26	0.045	0.042	1.19	0.053	/
	Div (ANT 2)	Left cheek	0	QPSK	Receiver on	1	0	41490/2680	22.90	22.64	0.139	-0.130	1.06	0.148	/
			0	QPSK	Receiver on	50%	25	41055/2636.5	21.90	21.66	0.095	-0.190	1.06	0.101	/
		Left Tilt	0	QPSK	Receiver on	1	0	41490/2680	22.90	22.64	0.185	-0.120	1.06	0.196	/
			0	QPSK	Receiver on	50%	25	41055/2636.5	21.90	21.66	0.132	-0.021	1.06	0.139	/
		Right cheek	0	QPSK	Receiver on	1	0	41490/2680	22.90	22.64	0.320	0.070	1.06	0.340	/
			0	QPSK	Receiver on	50%	25	41055/2636.5	21.90	21.66	0.228	0.098	1.06	0.241	/
		Right Tilt	0	QPSK	Receiver on	1	0	41490/2680	22.90	22.64	0.294	-0.180	1.06	0.312	/
			0	QPSK	Receiver on	50%	25	41055/2636.5	21.90	21.66	0.210	-0.130	1.06	0.222	/
	Main (ANT 5)	Left Tilt Battery 2	0	QPSK	Receiver on	1	99	40185/2549.5	23.50	23.09	0.733	0.110	1.10	0.806	64
		Left Tilt Battery 3	0	QPSK	Receiver on	1	99	40185/2549.5	23.50	23.09	0.642	0.026	1.10	0.706	/
		Left Tilt Battery 4	0	QPSK	Receiver on	1	99	40185/2549.5	23.50	23.09	0.628	0.014	1.10	0.690	/
LTE 66	Main (ANT 1)	Left cheek	0	QPSK	Receiver on	1	0	132322/1745	24.50	23.09	0.168	0.180	1.38	0.232	/
			0	QPSK	Receiver on	50%	50	132322/1745	23.50	22.08	0.109	0.024	1.39	0.151	/
		Left Tilt	0	QPSK	Receiver on	1	0	132322/1745	24.50	23.09	0.107	-0.050	1.38	0.148	/
			0	QPSK	Receiver on	50%	50	132322/1745	23.50	22.08	0.079	-0.190	1.39	0.110	/
		Right cheek	0	QPSK	Receiver on	1	0	132322/1745	24.50	23.09	0.148	-0.045	1.38	0.205	/
			0	QPSK	Receiver on	50%	50	132322/1745	23.50	22.08	0.110	0.160	1.39	0.153	/
		Right Tilt	0	QPSK	Receiver on	1	0	132322/1745	24.50	23.09	0.102	0.150	1.38	0.141	/
			0	QPSK	Receiver on	50%	50	132322/1745	23.50	22.08	0.096	0.010	1.39	0.133	/
	Div (ANT 2)	Left cheek	0	QPSK	Receiver on	1	0	132322/1745	20.20	18.94	0.331	-0.080	1.34	0.442	/
			0	QPSK	Receiver on	50%	25	132072/1720	20.20	18.94	0.309	-0.110	1.34	0.413	/
		Left Tilt	0	QPSK	Receiver on	1	0	132322/1745	20.20	18.94	0.446	0.010	1.34	0.596	/
			0	QPSK	Receiver on	50%	25	132072/1720	20.20	18.94	0.405	0.020	1.34	0.541	/
		Right cheek	0	QPSK	Receiver on	1	0	132322/1745	20.20	18.94	0.523	-0.074	1.34	0.699	/
			0	QPSK	Receiver on	50%	25	132072/1720	20.20	18.94	0.424	0.010	1.34	0.567	/
		Right Tilt	0	QPSK	Receiver on	1	0	132322/1745	20.20	18.94	0.565	-0.070	1.34	0.755	/
			0	QPSK	Receiver on	50%	25	132072/1720	20.20	18.94	0.496	0.053	1.34	0.663	/
	Div (ANT 2)	Right Tilt Battery 2	0	QPSK	Receiver on	1	0	132322/1745	20.20	18.94	0.453	-0.054	1.34	0.605	/
		Right Tilt Battery 3	0	QPSK	Receiver on	1	0	132322/1745	20.20	18.94	0.383	-0.110	1.34	0.512	/
		Right Tilt	0	QPSK	Receiver on	1	0	132322/1745	20.20	18.94	0.677	-0.082	1.34	0.905	65

Battery 4

Band	Antenna	Test Position	Dist. (mm)	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
n2	Main ANT1	Left cheek	0	SA	DFT-s-O FDM QPSK	Receiver on	1	104	376000/1880	25.00	23.48	0.101	-0.080	1.42	0.143	/
			0			Receiver on	50%	25	376000/1880	25.00	23.52	0.088	0.025	1.41	0.124	/
		Left Tilt	0			Receiver on	1	104	376000/1880	25.00	23.48	0.077	0.040	1.42	0.109	/
			0			Receiver on	50%	25	376000/1880	25.00	23.52	0.078	-0.050	1.41	0.110	/
		Right cheek	0			Receiver on	1	104	376000/1880	25.00	23.48	0.200	0.010	1.42	0.284	/
			0			Receiver on	50%	25	376000/1880	25.00	23.52	0.192	-0.050	1.41	0.270	/
		Right Tilt	0			Receiver on	1	104	376000/1880	25.00	23.48	0.085	0.040	1.42	0.121	/
			0			Receiver on	50%	25	376000/1880	25.00	23.52	0.088	0.010	1.41	0.124	/
	Div ANT2	Left cheek	0			Receiver on	1	1	372000/1860	15.90	14.76	0.264	0.020	1.30	0.343	/
			0			Receiver on	50%	25	372000/1860	15.90	14.78	0.277	0.020	1.29	0.358	/
		Left Tilt	0			Receiver on	1	1	372000/1860	15.90	14.76	0.326	0.070	1.30	0.424	/
			0			Receiver on	50%	25	372000/1860	15.90	14.78	0.340	0.030	1.29	0.440	/
		Right cheek	0			Receiver on	1	1	372000/1860	15.90	14.76	0.407	-0.020	1.30	0.529	/
			0			Receiver on	50%	25	372000/1860	15.90	14.78	0.439	0.030	1.29	0.568	/
		Right Tilt	0			Receiver on	1	1	372000/1860	15.90	14.76	0.421	-0.080	1.30	0.547	/
			0			Receiver on	50%	25	372000/1860	15.90	14.78	0.507	-0.020	1.29	0.656	/
	Div ANT2	Right Tilt Battery 2	0			Receiver on	50%	25	372000/1860	15.90	14.78	0.523	-0.055	1.29	0.677	66
		Right Tilt Battery 3	0			Receiver on	50%	25	372000/1860	15.90	14.78	0.477	0.013	1.29	0.617	/
		Right Tilt Battery 4	0			Receiver on	50%	25	372000/1860	15.90	14.78	0.502	0.027	1.29	0.650	/
n7	Main ANT1	Left cheek	0	SA& NSA	DFT-s-O FDM QPSK	Receiver on	1	1	507000/2535	24.00	22.96	0.187	-0.080	1.27	0.238	/
			0			Receiver on	50%	25	507000/2535	24.00	22.88	0.183	-0.022	1.29	0.237	/
		Left Tilt	0			Receiver on	1	1	507000/2535	24.00	22.96	0.130	0.020	1.27	0.165	/
			0			Receiver on	50%	25	507000/2535	24.00	22.88	0.130	-0.100	1.29	0.168	/
		Right cheek	0			Receiver on	1	1	507000/2535	24.00	22.96	0.403	0.010	1.27	0.512	/
			0			Receiver on	50%	25	507000/2535	24.00	22.88	0.400	0.030	1.29	0.518	/
		Right Tilt	0			Receiver on	1	1	507000/2535	24.00	22.96	0.123	0.080	1.27	0.156	/
			0			Receiver on	50%	25	507000/2535	24.00	22.88	0.120	0.010	1.29	0.155	/
	Div ANT2	Left cheek	0			Receiver on	1	1	507000/2535	20.30	19.66	0.187	-0.021	1.16	0.217	/
			0			Receiver on	50%	25	507000/2535	20.30	19.59	0.192	-0.070	1.18	0.226	/
		Left Tilt	0			Receiver on	1	1	507000/2535	20.30	19.66	0.234	-0.050	1.16	0.271	/
			0			Receiver on	50%	25	507000/2535	20.30	19.59	0.243	-0.070	1.18	0.286	/
		Right cheek	0			Receiver on	1	1	507000/2535	20.30	19.66	0.459	-0.050	1.16	0.532	/
			0			Receiver on	50%	25	507000/2535	20.30	19.59	0.468	0.010	1.18	0.551	/
		Right Tilt	0			Receiver on	1	1	507000/2535	20.30	19.66	0.449	-0.050	1.16	0.520	/
			0			Receiver on	50%	25	507000/2535	20.30	19.59	0.459	0.010	1.18	0.541	/

	Div ANT2	Right cheek Battery 2	0			Receiver on	50%	25	507000/2535	20.30	19.59	0.479	-0.048	1.18	0.564	67
		Right cheek Battery 3	0			Receiver on	50%	25	507000/2535	20.30	19.59	0.417	-0.057	1.18	0.491	/
		Right cheek Battery 4	0			Receiver on	50%	25	507000/2535	20.30	19.59	0.469	0.100	1.18	0.552	/
n38	Main ANT5	Left cheek	0	SA& NSA	DFT-s-O FDM QPSK	Receiver on	1	1	516000/2580	19.00	18.37	0.462	-0.020	1.16	0.534	/
			0			Receiver on	50%	12	516000/2580	19.00	18.24	0.475	0.010	1.19	0.566	/
		Left Tilt	0			Receiver on	1	1	516000/2580	19.00	18.37	0.373	-0.020	1.16	0.431	/
			0			Receiver on	50%	12	516000/2580	19.00	18.24	0.375	-0.070	1.19	0.447	/
		Right cheek	0			Receiver on	1	1	516000/2580	19.00	18.37	0.146	-0.030	1.16	0.169	/
			0			Receiver on	50%	12	516000/2580	19.00	18.24	0.153	0.020	1.19	0.182	/
		Right Tilt	0			Receiver on	1	1	516000/2580	19.00	18.37	0.164	-0.070	1.16	0.190	/
			0			Receiver on	50%	12	516000/2580	19.00	18.24	0.161	-0.050	1.19	0.192	/
	Div ANT3	Left cheek	0			Receiver on	1	1	516000/2580	22.10	21.22	0.189	-0.100	1.22	0.231	/
			0			Receiver on	50%	12	522000/2610	22.10	21.03	0.195	0.090	1.28	0.249	/
		Left Tilt	0			Receiver on	1	1	516000/2580	22.10	21.22	0.087	-0.029	1.22	0.107	/
			0			Receiver on	50%	12	522000/2610	22.10	21.03	0.093	-0.032	1.28	0.119	/
		Right cheek	0			Receiver on	1	1	516000/2580	22.10	21.22	0.265	-0.113	1.22	0.325	/
			0			Receiver on	50%	12	522000/2610	22.10	21.03	0.247	0.060	1.28	0.316	/
		Right Tilt	0			Receiver on	1	1	516000/2580	22.10	21.22	0.241	-0.100	1.22	0.295	/
			0			Receiver on	50%	12	522000/2610	22.10	21.03	0.278	-0.100	1.28	0.356	/
	Div ANT1	Left cheek	0			Receiver on	1	1	522000/2610	22.50	20.92	0.062	-0.050	1.44	0.089	/
			0			Receiver on	50%	12	522000/2610	22.50	20.65	0.054	-0.090	1.53	0.083	/
		Left Tilt	0			Receiver on	1	1	522000/2610	22.50	20.92	0.046	0.030	1.44	0.066	/
			0			Receiver on	50%	12	522000/2610	22.50	20.65	0.040	-0.110	1.53	0.061	/
		Right cheek	0			Receiver on	1	1	522000/2610	22.50	20.92	0.066	0.099	1.44	0.095	/
			0			Receiver on	50%	12	522000/2610	22.50	20.65	0.055	0.020	1.53	0.084	/
		Right Tilt	0			Receiver on	1	1	522000/2610	22.50	20.92	0.043	0.060	1.44	0.062	/
			0			Receiver on	50%	12	522000/2610	22.50	20.65	0.044	0.050	1.53	0.067	/
	Div ANT2	Left cheek	0			Receiver on	1	1	522000/2610	20.40	19.54	0.186	0.070	1.22	0.227	/
			0			Receiver on	50%	12	519000/2595	20.40	19.40	0.136	0.020	1.26	0.171	/
		Left Tilt	0			Receiver on	1	1	522000/2610	20.40	19.54	0.209	0.040	1.22	0.255	/
			0			Receiver on	50%	12	519000/2595	20.40	19.40	0.191	0.020	1.26	0.240	/
		Right cheek	0			Receiver on	1	1	522000/2610	20.40	19.54	0.425	0.080	1.22	0.518	/
			0			Receiver on	50%	12	519000/2595	20.40	19.40	0.404	-0.070	1.26	0.509	/
		Right Tilt	0			Receiver on	1	1	522000/2610	20.40	19.54	0.396	0.020	1.22	0.483	/
			0			Receiver on	50%	12	519000/2595	20.40	19.40	0.392	-0.010	1.26	0.493	/
	Main ANT5	Left cheek Battery 2	0			Receiver on	50%	12	516000/2580	19.00	18.24	0.433	0.025	1.19	0.516	/
		Left cheek Battery 3	0			Receiver on	50%	12	516000/2580	19.00	18.24	0.469	-0.054	1.19	0.559	/
		Left cheek	0			Receiver on	50%	12	516000/2580	19.00	18.24	0.505	-0.035	1.19	0.602	68

		Battery 4														
n41 PC2	Main ANT5	Left cheek	0	SA	DFT-s-O FDM QPSK	Receiver on	1	1	528000/2640	19.30	18.30	0.476	-0.100	1.26	0.599	/
			0			Receiver on	50%	67	528000/2640	19.30	18.06	0.415	0.030	1.33	0.552	/
		Left Tilt	0			Receiver on	1	1	528000/2640	19.30	18.30	0.410	0.030	1.26	0.516	/
			0			Receiver on	50%	67	528000/2640	19.30	18.06	0.347	-0.010	1.33	0.462	/
		Right cheek	0			Receiver on	1	1	528000/2640	19.30	18.30	0.184	-0.020	1.26	0.232	/
			0			Receiver on	50%	67	528000/2640	19.30	18.06	0.148	0.010	1.33	0.197	/
		Right Tilt	0			Receiver on	1	1	528000/2640	19.30	18.30	0.192	0.030	1.26	0.242	/
			0			Receiver on	50%	67	528000/2640	19.30	18.06	0.168	-0.060	1.33	0.224	/
	Div ANT3	Left cheek	0			Receiver on	1	1	509202/2546.01	22.20	20.95	0.153	-0.110	1.33	0.204	/
			0			Receiver on	50%	67	528000/2640	22.20	20.94	0.117	0.130	1.34	0.156	/
		Left Tilt	0			Receiver on	1	1	509202/2546.01	22.20	20.95	0.058	0.075	1.33	0.077	/
			0			Receiver on	50%	67	528000/2640	22.20	20.94	0.051	0.150	1.34	0.068	/
		Right cheek	0			Receiver on	1	1	509202/2546.01	22.20	20.95	0.268	0.140	1.33	0.357	/
			0			Receiver on	50%	67	528000/2640	22.20	20.94	0.222	0.020	1.34	0.297	/
		Right Tilt	0			Receiver on	1	1	509202/2546.01	22.20	20.95	0.075	0.040	1.33	0.100	/
			0			Receiver on	50%	67	528000/2640	22.20	20.94	0.067	0.020	1.34	0.090	/
	Div ANT1	Left cheek	0			Receiver on	1	1	528000/2640	24.50	23.17	0.111	-0.070	1.36	0.151	/
			0			Receiver on	50%	67	509202/2546.01	24.50	22.60	0.158	0.010	1.55	0.245	/
		Left Tilt	0			Receiver on	1	1	528000/2640	24.50	23.17	0.093	-0.100	1.36	0.126	/
			0			Receiver on	50%	67	509202/2546.01	24.50	22.60	0.124	0.020	1.55	0.192	/
		Right cheek	0			Receiver on	1	1	528000/2640	24.50	23.17	0.238	-0.070	1.36	0.323	/
			0			Receiver on	50%	67	509202/2546.01	24.50	22.60	0.267	0.035	1.55	0.414	/
		Right Tilt	0			Receiver on	1	1	528000/2640	24.50	23.17	0.088	-0.044	1.36	0.120	/
			0			Receiver on	50%	67	509202/2546.01	24.50	22.60	0.098	0.090	1.55	0.152	/
	Div ANT2	Left cheek	0			Receiver on	1	271	509202/2546.01	19.70	18.54	0.163	0.020	1.31	0.213	/
			0			Receiver on	50%	67	509202/2546.01	19.70	18.32	0.141	-0.150	1.37	0.194	/
		Left Tilt	0			Receiver on	1	271	509202/2546.01	19.70	18.54	0.199	0.150	1.31	0.260	/
			0			Receiver on	50%	67	509202/2546.01	19.70	18.32	0.184	-0.160	1.37	0.253	/
		Right cheek	0			Receiver on	1	271	509202/2546.01	19.70	18.54	0.371	0.020	1.31	0.485	/
			0			Receiver on	50%	67	509202/2546.01	19.70	18.32	0.380	0.050	1.37	0.522	/
		Right Tilt	0			Receiver on	1	271	509202/2546.01	19.70	18.54	0.313	0.060	1.31	0.409	/
			0			Receiver on	50%	67	509202/2546.01	19.70	18.32	0.308	0.090	1.37	0.423	/
	Main ANT5	Left cheek Battery 2	0			Receiver on	1	1	528000/2640	19.30	18.30	0.413	0.110	1.26	0.520	/
		Left cheek Battery 3	0			Receiver on	1	1	528000/2640	19.30	18.30	0.443	-0.072	1.26	0.558	/
		Left cheek Battery 4	0			Receiver on	1	1	528000/2640	19.30	18.30	0.556	-0.025	1.26	0.700	69
n41 PC3	Main ANT5	Left cheek	0	SA	DFT-s-O FDM QPSK	Receiver on	1	271	509202/2546.01	19.30	17.98	0.426	0.050	1.36	0.577	/
			0			Receiver on	50%	67	528000/2640	19.30	17.90	0.378	-0.040	1.38	0.522	/
		Left Tilt	0			Receiver on	1	271	509202/2546.01	19.30	17.98	0.328	-0.110	1.36	0.445	/
			0			Receiver on	50%	67	528000/2640	19.30	17.90	0.286	-0.080	1.38	0.395	/

n66	Div ANT3	Right cheek	0	SA& NSA	DFT-s-O FDM QPSK	Receiver on	1	271	509202/2546.01	19.30	17.98	0.145	-0.110	1.36	0.197	/
			0			Receiver on	50%	67	528000/2640	19.30	17.90	0.128	-0.110	1.38	0.177	/
		Right Tilt	0			Receiver on	1	271	509202/2546.01	19.30	17.98	0.146	-0.160	1.36	0.198	/
			0			Receiver on	50%	67	528000/2640	19.30	17.90	0.129	-0.150	1.38	0.178	/
		Left cheek	0			Receiver on	1	271	528000/2640	22.20	21.80	0.164	-0.030	1.10	0.180	/
			0			Receiver on	50%	67	528000/2640	22.20	21.66	0.161	0.030	1.13	0.182	/
		Left Tilt	0			Receiver on	1	271	528000/2640	22.20	21.80	0.079	-0.190	1.10	0.087	/
			0			Receiver on	50%	67	528000/2640	22.20	21.66	0.078	-0.036	1.13	0.088	/
		Right cheek	0			Receiver on	1	271	528000/2640	22.20	21.80	0.251	-0.040	1.10	0.275	/
			0			Receiver on	50%	67	528000/2640	22.20	21.66	0.291	-0.043	1.13	0.330	/
		Right Tilt	0			Receiver on	1	271	528000/2640	22.20	21.80	0.105	0.030	1.10	0.115	/
			0			Receiver on	50%	67	528000/2640	22.20	21.66	0.108	0.020	1.13	0.122	/
	Div ANT1	Left cheek	0			Receiver on	1	1	528000/2640	23.50	21.82	0.077	-0.024	1.47	0.113	/
			0			Receiver on	50%	67	518598/2592.99	23.50	21.71	0.066	-0.070	1.51	0.100	/
		Left Tilt	0			Receiver on	1	1	528000/2640	23.50	21.82	0.056	0.060	1.47	0.082	/
			0			Receiver on	50%	67	518598/2592.99	23.50	21.71	0.050	-0.110	1.51	0.076	/
		Right cheek	0			Receiver on	1	1	528000/2640	23.50	21.82	0.143	0.100	1.47	0.211	/
			0			Receiver on	50%	67	518598/2592.99	23.50	21.71	0.135	0.020	1.51	0.204	/
		Right Tilt	0			Receiver on	1	1	528000/2640	23.50	21.82	0.045	-0.080	1.47	0.066	/
			0			Receiver on	50%	67	518598/2592.99	23.50	21.71	0.044	-0.020	1.51	0.066	/
		Left cheek	0			Receiver on	1	1	528000/2640	19.70	19.18	0.133	0.160	1.13	0.150	/
			0			Receiver on	50%	67	528000/2640	19.70	19.11	0.141	-0.020	1.15	0.162	/
		Left Tilt	0			Receiver on	1	1	528000/2640	19.70	19.18	0.148	-0.170	1.13	0.167	/
			0			Receiver on	50%	67	528000/2640	19.70	19.11	0.158	-0.130	1.15	0.181	/
	Div ANT2	Right cheek	0			Receiver on	1	1	528000/2640	19.70	19.18	0.365	0.150	1.13	0.411	/
			0			Receiver on	50%	67	528000/2640	19.70	19.11	0.375	0.050	1.15	0.430	/
		Right Tilt	0			Receiver on	1	1	528000/2640	19.70	19.18	0.286	0.020	1.13	0.322	/
			0			Receiver on	50%	67	528000/2640	19.70	19.11	0.291	0.026	1.15	0.333	/
	Main ANT1	Left cheek	0			Receiver on	1	104	349000/1745	25.00	23.33	0.097	0.010	1.47	0.142	/
			0			Receiver on	50%	25	354000/1770	25.00	23.36	0.085	-0.020	1.46	0.124	/
		Left Tilt	0			Receiver on	1	104	349000/1745	25.00	23.33	0.088	-0.110	1.47	0.129	/
			0			Receiver on	50%	25	354000/1770	25.00	23.36	0.075	0.010	1.46	0.109	/
		Right cheek	0			Receiver on	1	104	349000/1745	25.00	23.33	0.176	-0.020	1.47	0.259	/
			0			Receiver on	50%	25	354000/1770	25.00	23.36	0.171	-0.010	1.46	0.249	/
		Right Tilt	0			Receiver on	1	104	349000/1745	25.00	23.33	0.106	-0.090	1.47	0.156	/
			0			Receiver on	50%	25	354000/1770	25.00	23.36	0.098	-0.010	1.46	0.143	/
		Left cheek	0			Receiver on	1	104	344000/1720	19.50	18.90	0.288	0.020	1.15	0.331	/
			0			Receiver on	50%	25	344000/1720	19.50	18.81	0.267	0.020	1.17	0.313	/
		Left Tilt	0			Receiver on	1	104	344000/1720	19.50	18.90	0.339	0.010	1.15	0.389	/
			0			Receiver on	50%	25	344000/1720	19.50	18.81	0.316	0.010	1.17	0.370	/
	Div ANT2	Right cheek	0			Receiver on	1	104	344000/1720	19.50	18.90	0.410	0.010	1.15	0.471	/
			0			Receiver on	50%	25	344000/1720	19.50	18.81	0.369	-0.020	1.17	0.433	/
		Right Tilt	0			Receiver on	1	104	344000/1720	19.50	18.90	0.441	-0.010	1.15	0.506	/
			0			Receiver on	1	104	344000/1720	19.50	18.90	0.441	-0.010	1.15	0.506	/

	Div ANT2		0			Receiver on	50%	25	344000/1720	19.50	18.81	0.407	0.040	1.17	0.477	/
		Right Tilt Battery 2	0			Receiver on	1	104	344000/1720	19.50	18.90	0.572	-0.020	1.15	0.657	70
		Right Tilt Battery 3	0			Receiver on	1	104	344000/1720	19.50	18.90	0.513	0.090	1.15	0.589	/
		Right Tilt Battery 4	0			Receiver on	1	104	344000/1720	19.50	18.90	0.542	-0.150	1.15	0.622	/
n78 PC2	Main ANT5	Left cheek	0	SA	DFT-s-O FDM QPSK	Receiver on	1	271	633332/3500	17.30	15.94	0.422	0.079	1.37	0.577	/
			0			Receiver on	50%	67	633332/3500	17.30	15.76	0.558	0.080	1.43	0.795	71
		Left Tilt	0			Receiver on	1	271	633332/3500	17.30	15.94	0.430	0.070	1.37	0.588	/
			0			Receiver on	50%	67	633332/3500	17.30	15.76	0.473	0.140	1.43	0.674	/
		Right cheek	0			Receiver on	1	271	633332/3500	17.30	15.94	0.268	0.029	1.37	0.367	/
			0			Receiver on	50%	67	633332/3500	17.30	15.76	0.305	-0.040	1.43	0.435	/
		Right Tilt	0			Receiver on	1	271	633332/3500	17.30	15.94	0.295	0.190	1.37	0.403	/
			0			Receiver on	50%	67	633332/3500	17.30	15.76	0.332	0.029	1.43	0.473	/
	Div ANT4	Left cheek	0			Receiver on	1	1	633332/3500	26.00	24.73	0.287	-0.040	1.34	0.384	/
			0			Receiver on	50%	67	633332/3500	26.00	24.69	0.319	-0.090	1.35	0.431	/
		Left Tilt	0			Receiver on	1	1	633332/3500	26.00	24.73	0.108	-0.100	1.34	0.145	/
			0			Receiver on	50%	67	633332/3500	26.00	24.69	0.129	-0.022	1.35	0.174	/
		Right cheek	0			Receiver on	1	1	633332/3500	26.00	24.73	0.175	0.022	1.34	0.234	/
			0			Receiver on	50%	67	633332/3500	26.00	24.69	0.169	0.109	1.35	0.229	/
		Right Tilt	0			Receiver on	1	1	633332/3500	26.00	24.73	0.029	0.026	1.34	0.039	/
			0			Receiver on	50%	67	633332/3500	26.00	24.69	0.051	0.190	1.35	0.069	/
	Div ANT2	Left cheek	0			Receiver on	1	271	633332/3500	19.50	18.28	0.140	-0.037	1.32	0.185	/
			0			Receiver on	50%	67	633332/3500	19.50	18.20	0.158	-0.170	1.35	0.213	/
		Left Tilt	0			Receiver on	1	271	633332/3500	19.50	18.28	0.130	-0.031	1.32	0.172	/
			0			Receiver on	50%	67	633332/3500	19.50	18.20	0.146	-0.070	1.35	0.197	/
		Right cheek	0			Receiver on	1	271	633332/3500	19.50	18.28	0.363	0.050	1.32	0.481	/
			0			Receiver on	50%	67	633332/3500	19.50	18.20	0.388	-0.030	1.35	0.523	/
		Right Tilt	0			Receiver on	1	271	633332/3500	19.50	18.28	0.249	0.020	1.32	0.330	/
			0			Receiver on	50%	67	633332/3500	19.50	18.20	0.285	-0.040	1.35	0.384	/
	Div ANT3	Left cheek	0			Receiver on	1	1	633332/3500	23.00	21.46	0.298	-0.052	1.43	0.425	/
			0			Receiver on	50%	67	633332/3500	23.00	21.55	0.209	-0.180	1.40	0.292	/
		Left Tilt	0			Receiver on	1	1	633332/3500	23.00	21.46	0.048	-0.038	1.43	0.068	/
			0			Receiver on	50%	67	633332/3500	23.00	21.55	0.033	-0.079	1.40	0.046	/
		Right cheek	0			Receiver on	1	1	633332/3500	23.00	21.46	0.405	0.080	1.43	0.577	/
			0			Receiver on	50%	67	633332/3500	23.00	21.55	0.322	0.020	1.40	0.450	/
		Right Tilt	0			Receiver on	1	1	633332/3500	23.00	21.46	0.097	0.125	1.43	0.138	/
			0			Receiver on	50%	67	633332/3500	23.00	21.55	0.065	-0.130	1.40	0.091	/
	Main ANT5	Left cheek Battery 2	0			Receiver on	50%	67	633332/3500	17.30	15.76	0.526	0.019	1.43	0.750	/
		Left cheek Battery 3	0			Receiver on	50%	67	633332/3500	17.30	15.76	0.482	-0.020	1.43	0.687	/

		Left cheek Battery 4	0		CP-OFD M QPSK	Receiver on	50%	67	633332/3500	17.30	15.76	0.516	0.040	1.43	0.736	/
		Left cheek	0			Receiver on	1	1	633332/3500	17.30	15.61	0.479	0.018	1.48	0.707	/
n78 PC3	Main ANT5	Left cheek	0	NSA	DFT-s- OFDM QPSK	Receiver on	1	271	633332/3500	17.30	15.93	0.471	0.013	1.37	0.646	/
			0			Receiver on	50%	67	633332/3500	17.30	15.79	0.523	-0.100	1.42	0.740	/
		Left Tilt	0			Receiver on	1	271	633332/3500	17.30	15.93	0.435	-0.180	1.37	0.596	/
			0			Receiver on	50%	67	633332/3500	17.30	15.79	0.452	0.050	1.42	0.640	/
		Right cheek	0			Receiver on	1	271	633332/3500	17.30	15.93	0.222	-0.070	1.37	0.304	/
			0			Receiver on	50%	67	633332/3500	17.30	15.79	0.231	-0.040	1.42	0.327	/
		Right Tilt	0			Receiver on	1	271	633332/3500	17.30	15.93	0.295	-0.010	1.37	0.404	/
			0			Receiver on	50%	67	633332/3500	17.30	15.79	0.302	-0.080	1.42	0.428	/
		Left cheek	0			WWAN+WLAN Receiver on	1	271	633332/3500	16.30	14.87	0.352	0.020	1.39	0.489	/
			0			WWAN+WLAN Receiver on	50%	67	633332/3500	16.30	14.75	0.398	0.017	1.43	0.569	/
	Div ANT4	Left cheek	0			Receiver on	1	271	633332/3500	24.00	22.08	0.136	-0.010	1.56	0.212	/
			0			Receiver on	50%	67	633332/3500	24.00	22.11	0.141	-0.020	1.55	0.218	/
		Left Tilt	0			Receiver on	1	271	633332/3500	24.00	22.08	0.076	0.010	1.56	0.118	/
			0			Receiver on	50%	67	633332/3500	24.00	22.11	0.049	0.030	1.55	0.076	/
		Right cheek	0			Receiver on	1	271	633332/3500	24.00	22.08	0.073	0.020	1.56	0.114	/
			0			Receiver on	50%	67	633332/3500	24.00	22.11	0.086	0.012	1.55	0.133	/
		Right Tilt	0			Receiver on	1	271	633332/3500	24.00	22.08	0.037	0.012	1.56	0.058	/
			0			Receiver on	50%	67	633332/3500	24.00	22.11	0.042	0.020	1.55	0.065	/
	Div ANT2	Left cheek	0			Receiver on	1	271	633332/3500	19.50	18.42	0.139	-0.025	1.28	0.178	/
			0			Receiver on	50%	67	633332/3500	19.50	18.21	0.164	0.130	1.35	0.221	/
		Left Tilt	0			Receiver on	1	271	633332/3500	19.50	18.42	0.127	-0.100	1.28	0.163	/
			0			Receiver on	50%	67	633332/3500	19.50	18.21	0.137	-0.024	1.35	0.184	/
		Right cheek	0			Receiver on	1	271	633332/3500	19.50	18.42	0.317	-0.030	1.28	0.406	/
			0			Receiver on	50%	67	633332/3500	19.50	18.21	0.347	0.050	1.35	0.467	/
		Right Tilt	0			Receiver on	1	271	633332/3500	19.50	18.42	0.246	0.010	1.28	0.315	/
			0			Receiver on	50%	67	633332/3500	19.50	18.21	0.286	0.040	1.35	0.385	/
	Div ANT3	Left cheek	0			Receiver on	1	271	633332/3500	24.00	22.70	0.228	-0.090	1.35	0.308	/
			0			Receiver on	50%	67	633332/3500	24.00	22.73	0.196	0.060	1.34	0.263	/
		Left Tilt	0			Receiver on	1	271	633332/3500	24.00	22.70	0.032	-0.050	1.35	0.043	/
			0			Receiver on	50%	67	633332/3500	24.00	22.73	0.029	-0.165	1.34	0.039	/
		Right cheek	0			Receiver on	1	271	633332/3500	24.00	22.70	0.335	-0.200	1.35	0.452	/
			0			Receiver on	50%	67	633332/3500	24.00	22.73	0.213	-0.028	1.34	0.285	/
		Right Tilt	0			Receiver on	1	271	633332/3500	24.00	22.70	0.079	-0.073	1.35	0.107	/
			0			Receiver on	50%	67	633332/3500	24.00	22.73	0.049	-0.053	1.34	0.066	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
2.4G	ANT7	Left Cheek	0	802.11b	98.0%	Receiver on	6/2437	16.00	15.02	0.067	0.010	1.28	0.086	/
		Left Tilt	0	802.11b	98.0%	Receiver on	6/2437	16.00	15.02	0.033	-0.130	1.28	0.042	/
		Right Cheek	0	802.11b	98.0%	Receiver on	6/2437	16.00	15.02	0.031	-0.170	1.28	0.040	/
		Right Tilt	0	802.11b	98.0%	Receiver on	6/2437	16.00	15.02	0.021	-0.200	1.28	0.027	/
		Left cheek Battery 2	0	802.11b	98.0%	Receiver on	6/2437	16.00	15.02	0.050	0.012	1.28	0.064	/
		Left cheek Battery 3	0	802.11b	98.0%	Receiver on	6/2437	16.00	15.02	0.080	-0.022	1.28	0.102	72
		Left cheek Battery 4	0	802.11b	98.0%	Receiver on	6/2437	16.00	15.02	0.061	-0.160	1.28	0.078	/
U-NII-1	ANT8	Left Cheek	0	802.11nHT40	100.0%	Receiver on	46/5230	15.00	13.68	0.081	0.052	1.36	0.110	/
		Left Tilt	0	802.11nHT40	100.0%	Receiver on	46/5230	15.00	13.68	0.027	0.055	1.36	0.036	/
		Right Cheek	0	802.11nHT40	100.0%	Receiver on	46/5230	15.00	13.68	0.012	0.033	1.36	0.017	/
		Right Tilt	0	802.11nHT40	100.0%	Receiver on	46/5230	15.00	13.68	0.011	0.039	1.36	0.015	/
		Left cheek Battery 2	0	802.11nHT40	100.0%	Receiver on	46/5230	15.00	13.68	0.119	0.080	1.36	0.161	/
		Left cheek Battery 3	0	802.11nHT40	100.0%	Receiver on	46/5230	15.00	13.68	0.095	0.050	1.36	0.129	/
		Left cheek Battery 4	0	802.11nHT40	100.0%	Receiver on	46/5230	15.00	13.68	0.094	0.150	1.36	0.127	/
U-NII-2A	ANT8	Left Cheek	0	802.11nHT40	100.0%	Receiver on	54/5270	15.00	13.82	0.173	0.181	1.31	0.227	/
		Left Tilt	0	802.11nHT40	100.0%	Receiver on	54/5270	15.00	13.82	0.119	0.024	1.31	0.156	/
		Right Cheek	0	802.11nHT40	100.0%	Receiver on	54/5270	15.00	13.82	0.041	0.129	1.31	0.053	/
		Right Tilt	0	802.11nHT40	100.0%	Receiver on	54/5270	15.00	13.82	0.047	0.170	1.31	0.062	/
		Left cheek Battery 2	0	802.11nHT40	100.0%	Receiver on	54/5270	15.00	13.82	0.124	0.080	1.31	0.163	/
		Left cheek Battery 3	0	802.11nHT40	100.0%	Receiver on	54/5270	15.00	13.82	0.104	0.060	1.31	0.136	/
		Left cheek Battery 4	0	802.11nHT40	100.0%	Receiver on	54/5270	15.00	13.82	0.102	0.110	1.31	0.134	/
U-NII-2C	ANT8	Left Cheek	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	15.00	14.02	0.428	-0.020	1.25	0.536	73
		Left Tilt	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	15.00	14.02	0.281	0.130	1.25	0.352	/
		Right Cheek	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	15.00	14.02	0.109	0.022	1.25	0.137	/
		Right Tilt	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	15.00	14.02	0.122	0.032	1.25	0.153	/
		Left cheek Battery 2	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	15.00	14.02	0.396	0.168	1.25	0.496	/
		Left cheek Battery 3	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	15.00	14.02	0.343	0.120	1.25	0.430	/
		Left cheek Battery 4	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	15.00	14.02	0.275	0.050	1.25	0.345	/
U-NII-3	ANT8	Left Cheek	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	15.00	13.86	0.372	0.047	1.30	0.484	/

		Left Tilt	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	15.00	13.86	0.101	0.120	1.30	0.131	/
		Right Cheek	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	15.00	13.86	0.068	-0.076	1.30	0.088	/
		Right Tilt	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	15.00	13.86	0.018	0.100	1.30	0.023	/
		Left cheek Battery 2	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	15.00	13.86	0.248	0.120	1.30	0.322	/
		Left cheek Battery 3	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	15.00	13.86	0.265	0.080	1.30	0.345	/
		Left cheek Battery 4	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	15.00	13.86	0.214	0.110	1.30	0.278	/
Bluetooth	ANT7	Left Cheek	0	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.060	-0.070	1.80	0.108	/
		Left Tilt	0	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.024	-0.020	1.80	0.043	/
		Right Cheek	0	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.020	-0.110	1.80	0.036	/
		Right Tilt	0	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.012	0.062	1.80	0.022	/
		Left cheek Battery 2	0	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.069	0.073	1.80	0.124	/
		Left cheek Battery 3	0	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.081	0.040	1.80	0.146	74
		Left cheek Battery 4	0	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.071	0.110	1.80	0.128	/

Body-worn SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM 850	Main (ANT 0)	Back Side	15	GSM	Receiver off	-	-	190/836.6	33.80	33.66	0.167	-0.050	1.03	0.172	/
		Front Side	15	GSM	Receiver off	-	-	190/836.6	33.80	33.66	0.102	-0.010	1.03	0.105	/
	Main (ANT 0)	Back Side Battery 2	15	GSM	Receiver off	-	-	190/836.6	33.80	33.66	0.125	-0.023	1.03	0.129	/
		Back Side Battery 3	15	GSM	Receiver off	-	-	190/836.6	33.80	33.66	0.173	0.014	1.03	0.179	75
		Back Side Battery 4	15	GSM	Receiver off	-	-	190/836.6	33.80	33.66	0.172	0.015	1.03	0.178	/
GSM 1900	Main (ANT 1)	Back Side	15	GSM	Receiver off	-	-	661/1880	31.00	29.42	0.166	0.010	1.44	0.239	/
		Front Side	15	GSM	Receiver off	-	-	661/1880	31.00	29.42	0.106	0.030	1.44	0.153	/
	Div (ANT 2)	Back Side	15	GSM	Receiver off	-	-	661/1880	29.50	28.56	0.253	0.023	1.24	0.314	76
		Front Side	15	GSM	Receiver off	-	-	661/1880	29.50	28.56	0.154	-0.070	1.24	0.191	/
	Div (ANT 2)	Back Side Battery 2	15	GSM	Receiver off	-	-	661/1880	29.50	28.56	0.228	0.015	1.24	0.283	/
		Back Side Battery 3	15	GSM	Receiver off	-	-	661/1880	29.50	28.56	0.178	0.011	1.24	0.221	/
		Back Side Battery 4	15	GSM	Receiver off	-	-	661/1880	29.50	28.56	0.182	0.068	1.24	0.226	/
WCDMA II	Main (ANT 1)	Back Side	15	RMC	Receiver off	-	-	9400/1880	22.60	21.45	0.201	0.090	1.30	0.262	/
		Front Side	15	RMC	Receiver off	-	-	9400/1880	22.60	21.45	0.124	0.018	1.30	0.162	/
	Div (ANT 2)	Back Side	15	RMC	Receiver off	-	-	9400/1880	20.00	18.78	0.279	-0.010	1.32	0.369	/
		Front Side	15	RMC	Receiver off	-	-	9400/1880	20.00	18.78	0.123	-0.050	1.32	0.163	/
	Div (ANT 2)	Back Side Battery 2	15	RMC	Receiver off	-	-	9400/1880	20.00	18.78	0.320	-0.090	1.32	0.424	/
		Back Side Battery 3	15	RMC	Receiver off	-	-	9400/1880	20.00	18.78	0.331	0.030	1.32	0.438	/
		Back Side Battery 4	15	RMC	Receiver off	-	-	9400/1880	20.00	18.78	0.339	-0.010	1.32	0.449	77
WCDMA IV	Main (ANT 1)	Back Side	15	RMC	Receiver off	-	-	1413/1732.6	22.40	21.42	0.209	0.050	1.25	0.262	/
		Front Side	15	RMC	Receiver off	-	-	1413/1732.6	22.40	21.42	0.121	0.010	1.25	0.152	/
	Div (ANT 2)	Back Side	15	RMC	Receiver off	-	-	1413/1732.6	21.40	20.57	0.196	0.020	1.21	0.237	/
		Front Side	15	RMC	Receiver off	-	-	1413/1732.6	21.40	20.57	0.124	0.080	1.21	0.150	/
	Main (ANT 1)	Back Side Battery 2	15	RMC	Receiver off	-	-	1413/1732.6	22.40	21.42	0.205	0.042	1.25	0.257	/
		Back Side Battery 3	15	RMC	Receiver off	-	-	1413/1732.6	22.40	21.42	0.201	0.016	1.25	0.252	/
		Back Side Battery 4	15	RMC	Receiver off	-	-	1413/1732.6	22.40	21.42	0.249	0.020	1.25	0.312	78
WCDMA V	Main (ANT 0)	Back Side	15	RMC	Receiver off	-	-	4183/836.6	25.00	23.88	0.187	-0.020	1.29	0.242	79
		Front Side	15	RMC	Receiver off	-	-	4183/836.6	25.00	23.88	0.155	0.010	1.29	0.201	/

	Main (ANT 0)	Back Side Battery 2	15	RMC	Receiver off	-	-	4183/836.6	25.00	23.88	0.166	0.010	1.29	0.215	/
		Back Side Battery 3	15	RMC	Receiver off	-	-	4183/836.6	25.00	23.88	0.173	-0.030	1.29	0.224	/
		Back Side Battery 4	15	RMC	Receiver off	-	-	4183/836.6	25.00	23.88	0.172	0.013	1.29	0.223	/
LTE 2	Main (ANT 1)	Back Side	15	QPSK	Receiver off	1	50	18900/1880	23.70	22.11	0.204	0.080	1.44	0.294	/
			15	QPSK	Receiver off	50%	0	18900/1880	23.50	21.97	0.179	-0.010	1.42	0.255	/
		Front Side	15	QPSK	Receiver off	1	50	18900/1880	23.70	22.11	0.166	0.017	1.44	0.239	/
			15	QPSK	Receiver off	50%	0	18900/1880	23.50	21.97	0.161	0.022	1.42	0.229	/
	Div (ANT 2)	Back Side	15	QPSK	Receiver off	1	50	18700/1860	21.10	19.48	0.239	-0.040	1.45	0.347	/
			15	QPSK	Receiver off	50%	25	18700/1860	21.10	19.47	0.235	0.010	1.46	0.342	/
		Front Side	15	QPSK	Receiver off	1	50	18700/1860	21.10	19.48	0.120	0.010	1.45	0.174	/
			15	QPSK	Receiver off	50%	25	18700/1860	21.10	19.47	0.125	0.020	1.46	0.182	/
	Div (ANT 2)	Back Side Battery 2	15	QPSK	Receiver off	1	50	18700/1860	21.10	19.48	0.178	0.100	1.45	0.258	/
		Back Side Battery 3	15	QPSK	Receiver off	1	50	18700/1860	21.10	19.48	0.272	0.027	1.45	0.395	80
		Back Side Battery 4	15	QPSK	Receiver off	1	50	18700/1860	21.10	19.48	0.265	0.049	1.45	0.385	/
LTE 4	Main (ANT 1)	Back Side	15	QPSK	Receiver off	1	0	20175/1732.5	23.50	22.01	0.261	0.010	1.41	0.368	/
			15	QPSK	Receiver off	50%	25	20300/1745	23.50	22.07	0.238	0.028	1.39	0.331	/
		Front Side	15	QPSK	Receiver off	1	0	20175/1732.5	23.50	22.01	0.172	0.032	1.41	0.242	/
			15	QPSK	Receiver off	50%	25	20300/1745	23.50	22.07	0.154	-0.030	1.39	0.214	/
	Div (ANT 2)	Back Side	15	QPSK	Receiver off	1	0	20300/1745	22.60	21.27	0.164	-0.010	1.36	0.223	/
			15	QPSK	Receiver off	50%	0	20175/1732.5	22.50	21.24	0.136	-0.030	1.34	0.182	/
		Front Side	15	QPSK	Receiver off	1	0	20300/1745	22.60	21.27	0.091	0.050	1.36	0.124	/
			15	QPSK	Receiver off	50%	0	20175/1732.5	22.50	21.24	0.088	-0.070	1.34	0.118	/
	Main (ANT 1)	Back Side Battery 2	15	QPSK	Receiver off	1	0	20175/1732.5	23.50	22.01	0.259	0.010	1.41	0.365	/
		Back Side Battery 3	15	QPSK	Receiver off	1	0	20175/1732.5	23.50	22.01	0.290	-0.090	1.41	0.409	81
		Back Side Battery 4	15	QPSK	Receiver off	1	0	20175/1732.5	23.50	22.01	0.289	0.032	1.41	0.407	/
LTE 5	Main (ANT 0)	Back Side	15	QPSK	Receiver off	1	0	20450/829	25.00	23.52	0.156	-0.110	1.41	0.219	82
			15	QPSK	Receiver off	50%	0	20450/829	24.00	22.65	0.133	0.052	1.36	0.181	/
		Front Side	15	QPSK	Receiver off	1	0	20450/829	25.00	23.52	0.102	0.027	1.41	0.143	/
			15	QPSK	Receiver off	50%	0	20450/829	24.00	22.65	0.080	0.100	1.36	0.109	/
	Main (ANT 0)	Back Side Battery 2	15	QPSK	Receiver off	1	0	20450/829	25.00	23.52	0.150	0.040	1.41	0.211	/
		Back Side Battery 3	15	QPSK	Receiver off	1	0	20450/829	25.00	23.52	0.153	0.022	1.41	0.215	/
		Back Side Battery 4	15	QPSK	Receiver off	1	0	20450/829	25.00	23.52	0.132	-0.100	1.41	0.186	/

LTE 7	Main (ANT 1)	Back Side	15	QPSK	Receiver off	1	99	21100/2535	21.90	20.74	0.292	0.026	1.31	0.381	/
			15	QPSK	Receiver off	50%	25	21100/2535	21.90	20.80	0.265	0.018	1.29	0.341	/
		Front Side	15	QPSK	Receiver off	1	99	21100/2535	21.90	20.74	0.125	-0.022	1.31	0.163	/
			15	QPSK	Receiver off	50%	25	21100/2535	21.90	20.80	0.125	0.044	1.29	0.161	/
	Div (ANT 2)	Back Side	15	QPSK	Receiver off	1	99	21350/2560	20.50	19.67	0.211	0.040	1.21	0.255	/
			15	QPSK	Receiver off	50%	50	21350/2560	20.50	19.83	0.213	-0.020	1.17	0.249	/
		Front Side	15	QPSK	Receiver off	1	99	21350/2560	20.50	19.67	0.095	0.035	1.21	0.115	/
			15	QPSK	Receiver off	50%	50	21350/2560	20.50	19.83	0.091	0.099	1.17	0.106	/
	Main (ANT 1)	Back Side Battery 2	15	QPSK	Receiver off	1	99	21100/2535	21.90	20.74	0.334	0.010	1.31	0.436	83
		Back Side Battery 3	15	QPSK	Receiver off	1	99	21100/2535	21.90	20.74	0.277	0.180	1.31	0.362	/
		Back Side Battery 4	15	QPSK	Receiver off	1	99	21100/2535	21.90	20.74	0.251	0.048	1.31	0.328	/
LTE 12	Main (ANT 0)	Back Side	15	QPSK	Receiver off	1	25	23095/707.5	25.00	23.59	0.132	0.015	1.38	0.183	/
			15	QPSK	Receiver off	50%	25	23130/711	24.00	22.69	0.108	0.032	1.35	0.146	/
		Front Side	15	QPSK	Receiver off	1	25	23095/707.5	25.00	23.59	0.094	-0.080	1.38	0.130	/
			15	QPSK	Receiver off	50%	25	23130/711	24.00	22.69	0.076	0.025	1.35	0.103	/
	Main (ANT 0)	Back Side Battery 2	15	QPSK	Receiver off	1	25	23095/707.5	25.00	23.59	0.180	0.010	1.38	0.249	84
		Back Side Battery 3	15	QPSK	Receiver off	1	25	23095/707.5	25.00	23.59	0.147	0.100	1.38	0.203	/
		Back Side Battery 4	15	QPSK	Receiver off	1	25	23095/707.5	25.00	23.59	0.148	0.026	1.38	0.205	/
LTE 13	Main (ANT 0)	Back Side	15	QPSK	Receiver off	1	0	23230/782	24.50	22.91	0.112	0.046	1.44	0.162	/
			15	QPSK	Receiver off	50%	25	23230/782	23.50	22.08	0.093	0.022	1.39	0.129	/
		Front Side	15	QPSK	Receiver off	1	0	23230/782	24.50	22.91	0.081	-0.018	1.44	0.117	/
			15	QPSK	Receiver off	50%	25	23230/782	23.50	22.08	0.065	0.029	1.39	0.090	/
	Main (ANT 0)	Back Side Battery 2	15	QPSK	Receiver off	1	0	23230/782	24.50	22.91	0.133	0.042	1.44	0.192	/
		Back Side Battery 3	15	QPSK	Receiver off	1	0	23230/782	24.50	22.91	0.139	-0.050	1.44	0.200	/
		Back Side Battery 4	15	QPSK	Receiver off	1	0	23230/782	24.50	22.91	0.157	0.017	1.44	0.226	85
LTE 26	Main (ANT 0)	Back Side	15	QPSK	Receiver off	1	0	26765/821.5	25.00	23.48	0.149	-0.080	1.42	0.211	/
			15	QPSK	Receiver off	50%	18	26765/821.5	24.00	22.55	0.116	0.017	1.40	0.162	/
		Front Side	15	QPSK	Receiver off	1	0	26765/821.5	25.00	23.48	0.089	0.120	1.42	0.126	/
			15	QPSK	Receiver off	50%	18	26765/821.5	24.00	22.55	0.074	0.048	1.40	0.103	/
	Main (ANT 0)	Back Side Battery 2	15	QPSK	Receiver off	1	0	26765/821.5	25.00	23.48	0.137	-0.080	1.42	0.194	/
		Back Side Battery 3	15	QPSK	Receiver off	1	0	26765/821.5	25.00	23.48	0.157	0.027	1.42	0.223	86
		Back Side Battery 4	15	QPSK	Receiver off	1	0	26765/821.5	25.00	23.48	0.121	0.044	1.42	0.172	/

LTE 38	Main (ANT 5)	Back Side	15	QPSK	Receiver off	1	0	37850/2580	24.00	22.86	0.183	0.015	1.30	0.238	87
			15	QPSK	Receiver off	50%	25	37850/2580	23.50	22.40	0.178	-0.032	1.29	0.229	/
		Front Side	15	QPSK	Receiver off	1	0	37850/2580	24.00	22.86	0.116	0.180	1.30	0.151	/
			15	QPSK	Receiver off	50%	25	37850/2580	23.50	22.40	0.103	0.024	1.29	0.133	/
	Div (ANT 3)	Back Side	15	QPSK	Receiver off	1	99	38000/2595	22.50	22.18	0.059	0.025	1.08	0.064	/
			15	QPSK	Receiver off	50%	0	37850/2580	22.00	21.17	0.050	0.060	1.21	0.061	/
		Front Side	15	QPSK	Receiver off	1	99	38000/2595	22.50	22.18	0.001	-0.110	1.08	0.001	/
			15	QPSK	Receiver off	50%	0	37850/2580	22.00	21.17	0.001	-0.030	1.21	0.001	/
	Div (ANT 1)	Back Side	15	QPSK	Receiver off	1	0	37850/2580	22.00	20.72	0.159	-0.040	1.34	0.213	/
			15	QPSK	Receiver off	50%	0	37850/2580	21.00	19.70	0.124	0.030	1.35	0.167	/
		Front Side	15	QPSK	Receiver off	1	0	37850/2580	22.00	20.72	0.050	-0.021	1.34	0.067	/
			15	QPSK	Receiver off	50%	0	37850/2580	21.00	19.70	0.040	-0.120	1.35	0.054	/
	Div (ANT 2)	Back Side	15	QPSK	Receiver off	1	99	38150/2610	20.90	20.57	0.102	0.035	1.08	0.110	/
			15	QPSK	Receiver off	50%	25	38150/2610	19.90	19.43	0.083	0.035	1.11	0.092	/
		Front Side	15	QPSK	Receiver off	1	99	38150/2610	20.90	20.57	0.032	0.160	1.08	0.035	/
			15	QPSK	Receiver off	50%	25	38150/2610	19.90	19.43	0.027	-0.100	1.11	0.030	/
	Main (ANT 5)	Back Side Battery 2	15	QPSK	Receiver off	1	0	37850/2580	24.00	22.86	0.152	0.024	1.30	0.198	/
		Back Side Battery 3	15	QPSK	Receiver off	1	0	37850/2580	24.00	22.86	0.167	0.012	1.30	0.217	/
		Back Side Battery 4	15	QPSK	Receiver off	1	0	37850/2580	24.00	22.86	0.163	-0.060	1.30	0.212	/
LTE 41 PC3	Main (ANT 5)	Back Side	15	QPSK	Receiver off	1	99	40185/2549.5	24.00	22.88	0.186	-0.110	1.29	0.241	/
			15	QPSK	Receiver off	50%	25	40185/2549.5	23.00	22.01	0.148	0.010	1.26	0.186	/
		Front Side	15	QPSK	Receiver off	1	99	40185/2549.5	24.00	22.88	0.108	0.022	1.29	0.140	/
			15	QPSK	Receiver off	50%	25	40185/2549.5	23.00	22.01	0.089	-0.010	1.26	0.112	/
	Div (ANT 3)	Back Side	15	QPSK	Receiver off	1	99	40185/2549.5	23.00	22.14	0.060	0.080	1.22	0.073	/
			15	QPSK	Receiver off	50%	25	40185/2549.5	22.00	21.13	0.045	0.024	1.22	0.055	/
		Front Side	15	QPSK	Receiver off	1	99	40185/2549.5	23.00	22.14	0.001	-0.017	1.22	0.001	/
			15	QPSK	Receiver off	50%	25	40185/2549.5	22.00	21.13	0.001	0.020	1.22	0.001	/
	Div (ANT 1)	Back Side	15	QPSK	Receiver off	1	0	40185/2549.5	21.50	20.86	0.096	0.015	1.16	0.111	/
			15	QPSK	Receiver off	50%	50	39750/2506	20.50	20.01	0.076	0.048	1.12	0.085	/
		Front Side	15	QPSK	Receiver off	1	0	40185/2549.5	21.50	20.86	0.051	-0.010	1.16	0.059	/
			15	QPSK	Receiver off	50%	50	39750/2506	20.50	20.01	0.043	0.022	1.12	0.048	/
	Div (ANT 2)	Back Side	15	QPSK	Receiver off	1	99	41055/2636.5	20.50	20.36	0.095	0.020	1.03	0.098	/
			15	QPSK	Receiver off	50%	25	41055/2636.5	19.50	19.31	0.082	0.010	1.04	0.086	/
		Front Side	15	QPSK	Receiver off	1	99	41055/2636.5	20.50	20.36	0.033	-0.020	1.03	0.034	/
			15	QPSK	Receiver off	50%	25	41055/2636.5	19.50	19.31	0.034	-0.030	1.04	0.036	/
LTE 41 PC2	Main (ANT 5)	Back Side	15	QPSK	Receiver off	1	0	39750/2506	25.80	24.74	0.158	0.040	1.28	0.202	/
			15	QPSK	Receiver off	50%	50	40185/2549.5	25.20	24.50	0.155	0.030	1.17	0.182	/
		Front Side	15	QPSK	Receiver off	1	0	39750/2506	25.80	24.74	0.096	-0.020	1.28	0.123	/
			15	QPSK	Receiver off	50%	50	40185/2549.5	25.20	24.50	0.091	-0.020	1.17	0.107	/
	Div	Back Side	15	QPSK	Receiver off	1	99	40620/2593	24.70	24.04	0.058	-0.050	1.16	0.068	/

	(ANT 3)	Front Side	15	QPSK	Receiver off	50%	50	40185/2549.5	24.00	23.50	0.051	0.027	1.12	0.057	/
			15	QPSK	Receiver off	1	99	40620/2593	24.70	24.04	0.002	0.010	1.16	0.002	/
			15	QPSK	Receiver off	50%	50	40185/2549.5	24.00	23.50	0.002	0.024	1.12	0.002	/
	Div (ANT 1)	Back Side	15	QPSK	Receiver off	1	50	40185/2549.5	24.00	23.07	0.112	0.038	1.24	0.139	/
			15	QPSK	Receiver off	50%	25	40185/2549.5	23.00	22.26	0.092	0.047	1.19	0.109	/
		Front Side	15	QPSK	Receiver off	1	50	40185/2549.5	24.00	23.07	0.057	0.015	1.24	0.071	/
			15	QPSK	Receiver off	50%	25	40185/2549.5	23.00	22.26	0.048	0.090	1.19	0.057	/
	Div (ANT 2)	Back Side	15	QPSK	Receiver off	1	0	41490/2680	22.90	22.64	0.121	0.027	1.06	0.128	/
			15	QPSK	Receiver off	50%	25	41055/2636.5	21.90	21.66	0.091	0.044	1.06	0.096	/
		Front Side	15	QPSK	Receiver off	1	0	41490/2680	22.90	22.64	0.068	0.016	1.06	0.072	/
			15	QPSK	Receiver off	50%	25	41055/2636.5	21.90	21.66	0.054	0.058	1.06	0.057	/
LTE 66	Main (ANT 5)	Back Side Battery 2	15	QPSK	Receiver off	1	99	40185/2549.5	24.00	22.88	0.183	-0.046	1.29	0.237	/
		Back Side Battery 3	15	QPSK	Receiver off	1	99	40185/2549.5	24.00	22.88	0.219	0.083	1.29	0.283	88
		Back Side Battery 4	15	QPSK	Receiver off	1	99	40185/2549.5	24.00	22.88	0.175	0.020	1.29	0.226	/
	Main (ANT 1)	Back Side	15	QPSK	Receiver off	1	0	132322/1745	23.50	22.08	0.305	0.036	1.39	0.423	/
			15	QPSK	Receiver off	50%	0	132322/1745	23.50	22.10	0.319	0.014	1.38	0.440	89
		Front Side	15	QPSK	Receiver off	1	0	132322/1745	23.50	22.08	0.220	0.080	1.39	0.305	/
			15	QPSK	Receiver off	50%	0	132322/1745	23.50	22.10	0.216	-0.011	1.38	0.298	/
	Div (ANT 2)	Back Side	15	QPSK	Receiver off	1	0	132322/1745	22.50	21.15	0.141	0.024	1.36	0.192	/
			15	QPSK	Receiver off	50%	0	132322/1745	22.50	21.18	0.151	0.015	1.36	0.205	/
		Front Side	15	QPSK	Receiver off	1	0	132322/1745	22.50	21.15	0.116	0.027	1.36	0.158	/
			15	QPSK	Receiver off	50%	0	132322/1745	22.50	21.18	0.122	0.020	1.36	0.165	/
	Main (ANT 1)	Back Side SIM2	15	QPSK	Receiver off	50%	0	132322/1745	23.50	22.10	0.274	-0.019	1.38	0.378	/
		Back Side Battery 2	15	QPSK	Receiver off	50%	0	132322/1745	23.50	22.10	0.273	-0.028	1.38	0.377	/
		Back Side Battery 3	15	QPSK	Receiver off	50%	0	132322/1745	23.50	22.10	0.282	0.040	1.38	0.389	/
		Back Side Battery 4	15	QPSK	Receiver off	50%	0	132322/1745	23.50	22.10	0.287	0.029	1.38	0.396	/

Band	Antenna	Test Position	Dist. (mm)	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
n2	Main ANT1	Back Side	15	SA	DFT-s-OFDM QPSK	Receiver off	1	104	376000/1880	23.30	22.27	0.218	0.015	1.27	0.276	/
			15			Receiver off	50%	25	376000/1881	23.30	22.35	0.216	0.028	1.24	0.269	/
		Front Side	15			Receiver off	1	104	376000/1880	23.30	22.27	0.134	-0.033	1.27	0.170	/
			15			Receiver off	50%	25	376000/1881	23.30	22.35	0.129	0.011	1.24	0.161	/
	Div ANT2	Back Side	15			Receiver off	1	1	372000/1860	20.70	19.85	0.235	0.024	1.22	0.286	/
			15			Receiver off	50%	25	376000/1880	20.70	19.80	0.261	0.019	1.23	0.321	/

		Front Side	15			Receiver off	1	1	372000/1860	20.70	19.85	0.159	0.060	1.22	0.193	/
			15			Receiver off	50%	25	376000/1880	20.70	19.80	0.160	0.015	1.23	0.197	/
	Div ANT2	Back Side Battery 2	15			Receiver off	50%	25	376000/1880	20.70	19.80	0.339	0.090	1.23	0.417	90
		Back Side Battery 3	15			Receiver off	50%	25	376000/1880	20.70	19.80	0.253	0.060	1.23	0.311	/
		Back Side Battery 4	15			Receiver off	50%	25	376000/1880	20.70	19.80	0.278	0.024	1.23	0.342	/
n7	Main ANT1	Back Side	15	SA&N SA	DFT-s- OFDM QPSK	Receiver off	1	104	507000/2535	20.80	19.60	0.139	0.014	1.32	0.183	/
			15			Receiver off	50%	25	507000/2536	20.80	19.59	0.141	0.022	1.32	0.186	/
		Front Side	15			Receiver off	1	104	507000/2535	20.80	19.60	0.087	-0.016	1.32	0.115	/
			15			Receiver off	50%	25	507000/2536	20.80	19.59	0.091	0.030	1.32	0.120	/
	Div ANT2	Back Side	15			Receiver off	1	1	507000/2535	20.30	19.66	0.162	0.020	1.16	0.188	91
			15			Receiver off	50%	25	507000/2535	20.30	19.59	0.158	0.048	1.18	0.186	/
		Front Side	15			Receiver off	1	1	507000/2535	20.30	19.66	0.069	0.015	1.16	0.080	/
			15			Receiver off	50%	25	507000/2535	20.30	19.59	0.073	-0.090	1.18	0.086	/
	Div ANT2	Back Side Battery 2	15			Receiver off	1	1	507000/2535	20.30	19.66	0.124	0.082	1.16	0.144	/
		Back Side Battery 3	15			Receiver off	1	1	507000/2535	20.30	19.66	0.130	0.050	1.16	0.151	/
		Back Side Battery 4	15			Receiver off	1	1	507000/2535	20.30	19.66	0.147	0.030	1.16	0.170	/
n38	Main ANT5	Back Side	15	SA&N SA	DFT-s- OFDM QPSK	Receiver off	1	49	519000/2595	21.40	20.84	0.166	0.013	1.14	0.189	92
			15			Receiver off	50%	12	522000/2610	21.40	20.71	0.161	0.020	1.17	0.189	/
		Front Side	15			Receiver off	1	49	519000/2595	21.40	20.84	0.099	-0.090	1.14	0.113	/
			15			Receiver off	50%	12	522000/2610	21.40	20.71	0.098	0.024	1.17	0.115	/
	Div ANT3	Back Side	15			Receiver off	1	1	516000/2580	20.20	19.24	0.061	0.100	1.25	0.076	/
			15			Receiver off	50%	12	522000/2610	20.20	19.27	0.060	0.038	1.24	0.074	/
		Front Side	15			Receiver off	1	1	516000/2580	20.20	19.24	0.001	0.011	1.25	0.001	/
			15			Receiver off	50%	12	522000/2610	20.20	19.27	0.001	0.024	1.24	0.001	/
	Div ANT1	Back Side	15			Receiver off	1	1	516000/2580	20.90	19.92	0.146	0.060	1.25	0.183	/
			15			Receiver off	50%	12	519000/2595	20.90	19.74	0.138	-0.050	1.31	0.180	/
		Front Side	15			Receiver off	1	1	516000/2580	20.90	19.92	0.085	0.028	1.25	0.107	/
			15			Receiver off	50%	12	519000/2595	20.90	19.74	0.090	0.033	1.31	0.118	/
	Div ANT2	Back Side	15			Receiver off	1	1	522000/2610	19.70	18.64	0.142	0.100	1.28	0.181	/
			15			Receiver off	50%	12	522000/2610	19.70	18.52	0.135	0.015	1.31	0.177	/
		Front Side	15			Receiver off	1	1	522000/2610	19.70	18.64	0.074	-0.080	1.28	0.094	/
			15			Receiver off	50%	12	522000/2610	19.70	18.52	0.077	0.030	1.31	0.101	/
	Main ANT5	Back Side Battery 2	15			Receiver off	1	49	519000/2595	21.40	20.84	0.129	0.084	1.14	0.147	/
		Back Side Battery 3	15			Receiver off	1	49	519000/2595	21.40	20.84	0.123	0.096	1.14	0.140	/
		Back Side	15			Receiver off	1	49	519000/2595	21.40	20.84	0.153	-0.100	1.14	0.174	/

		Battery 4															
n41 PC2	Main ANT5	Back Side	15	SA	DFT-s-OFDM QPSK	Receiver off	1	1	528000/2640	21.40	20.27	0.179	0.025	1.30	0.232	93	
			15			Receiver off	50%	67	528000/2640	21.40	20.10	0.151	0.016	1.35	0.204	/	
		Front Side	15			Receiver off	1	1	528000/2640	21.40	20.27	0.104	0.020	1.30	0.135	/	
			15			Receiver off	50%	67	528000/2640	21.40	20.10	0.086	-0.070	1.35	0.116	/	
	Div ANT3	Back Side	15			Receiver off	1	1	509202/2546.01	20.40	19.09	0.056	0.038	1.35	0.076	/	
			15			Receiver off	50%	67	528000/2640	20.40	18.93	0.045	0.090	1.40	0.063	/	
		Front Side	15			Receiver off	1	1	509202/2546.01	20.40	19.09	0.001	0.011	1.35	0.001	/	
			15			Receiver off	50%	67	528000/2640	20.40	18.93	0.001	0.170	1.40	0.001	/	
	Div ANT1	Back Side	15			Receiver off	1	1	509202/2546.01	21.00	19.62	0.163	0.024	1.37	0.224	/	
			15			Receiver off	50%	67	509202/2546.01	21.00	19.46	0.141	-0.033	1.43	0.201	/	
		Front Side	15			Receiver off	1	1	509202/2546.01	21.00	19.62	0.112	0.049	1.37	0.154	/	
			15			Receiver off	50%	67	509202/2546.01	21.00	19.46	0.099	0.025	1.43	0.141	/	
	Div ANT2	Back Side	15			Receiver off	1	271	509202/2546.01	19.60	18.54	0.121	0.060	1.28	0.154	/	
			15			Receiver off	50%	67	509202/2546.01	19.60	18.32	0.106	0.038	1.34	0.142	/	
		Front Side	15			Receiver off	1	271	509202/2546.01	19.60	18.54	0.060	0.012	1.28	0.077	/	
			15			Receiver off	50%	67	509202/2546.01	19.60	18.32	0.054	0.040	1.34	0.073	/	
	Main ANT5	Back Side Battery 2	15			Receiver off	1	1	528000/2640	21.40	20.27	0.136	0.061	1.30	0.176	/	
		Back Side Battery 3	15			Receiver off	1	1	528000/2640	21.40	20.27	0.115	0.055	1.30	0.149	/	
		Back Side Battery 4	15			Receiver off	1	1	528000/2640	21.40	20.27	0.132	0.010	1.30	0.171	/	
	n41 PC3	Main ANT5	Back Side			15	SA	DFT-s-OFDM QPSK	Receiver off	1	271	509202/2546.01	21.40	20.19	0.146	0.029	1.32
			15	Receiver off	50%	67			518598/2592.99	21.40	20.06	0.150	0.014	1.36	0.204	/	
Front Side			15	Receiver off	1	271			509202/2546.01	21.40	20.19	0.089	-0.020	1.32	0.118	/	
			15	Receiver off	50%	67			518598/2592.99	21.40	20.06	0.094	0.027	1.36	0.128	/	
Div ANT3		Back Side	15	Receiver off	1	1			509202/2546.01	20.40	19.30	0.067	0.030	1.29	0.086	/	
			15	Receiver off	50%	67			528000/2640	20.40	19.08	0.052	0.015	1.36	0.070	/	
		Front Side	15	Receiver off	1	1			509202/2546.01	20.40	19.30	0.001	0.018	1.29	0.001	/	
			15	Receiver off	50%	67			528000/2640	20.40	19.08	0.001	0.090	1.36	0.001	/	
Div ANT1		Back Side	15	Receiver off	1	271			509202/2546.01	21.00	20.10	0.143	0.024	1.23	0.176	/	
			15	Receiver off	50%	67			509202/2546.01	21.00	19.94	0.142	0.077	1.28	0.181	/	
		Front Side	15	Receiver off	1	271			509202/2546.01	21.00	20.10	0.100	0.024	1.23	0.123	/	
			15	Receiver off	50%	67			509202/2546.01	21.00	19.94	0.097	0.038	1.28	0.124	/	
Div ANT2		Back Side	15	Receiver off	1	1			528000/2640	19.60	18.96	0.133	-0.072	1.16	0.154	/	
			15	Receiver off	50%	67			528000/2640	19.60	18.76	0.143	0.048	1.21	0.174	/	
		Front Side	15	Receiver off	1	1			528000/2640	19.60	18.96	0.059	0.010	1.16	0.068	/	
			15	Receiver off	50%	67			528000/2640	19.60	18.76	0.070	0.012	1.21	0.085	/	
n66	Main ANT1	Back Side	15	SA&N SA	DFT-s-OFDM QPSK	Receiver off	1	104	349000/1745	23.00	21.85	0.263	0.100	1.30	0.343	/	
			15			Receiver off	50%	25	349000/1745	23.00	21.81	0.287	0.028	1.32	0.377	94	
		Front Side	15			Receiver off	1	104	349000/1745	23.00	21.85	0.159	0.020	1.30	0.207	/	
			15			Receiver off	50%	25	349000/1745	23.00	21.81	0.165	-0.019	1.32	0.217	/	

	Div ANT2	Back Side	15			Receiver off	1	104	349000/1745	22.30	21.63	0.194	0.032	1.17	0.226	/
			15			Receiver off	50%	25	349000/1745	22.30	21.61	0.184	0.015	1.17	0.216	/
		Front Side	15			Receiver off	1	104	349000/1745	22.30	21.63	0.147	0.080	1.17	0.172	/
			15			Receiver off	50%	25	349000/1745	22.30	21.61	0.138	0.024	1.17	0.162	/
	Main ANT1	Back Side Battery 2	15			Receiver off	50%	25	349000/1745	23.00	21.81	0.235	0.070	1.32	0.309	/
		Back Side Battery 3	15			Receiver off	50%	25	349000/1745	23.00	21.81	0.238	0.011	1.32	0.313	/
		Back Side Battery 4	15			Receiver off	50%	25	349000/1745	23.00	21.81	0.265	0.038	1.32	0.349	/
		Back Side	15			Receiver off	50%	25	349000/1745	23.00	21.81	0.265	0.038	1.32	0.349	/
		Back Side	15		CP-OFDM QPSK	Receiver off	1	1	344000/1720	23.00	21.67	0.261	0.046	1.36	0.355	/
						Receiver off	50%	25	349000/1745	23.00	21.81	0.238	0.011	1.32	0.313	/
						Receiver off	1	1	344000/1720	23.00	21.67	0.261	0.046	1.36	0.355	/
						Receiver off	50%	25	349000/1745	23.00	21.81	0.238	0.011	1.32	0.313	/
n78 PC2	Main ANT5	Back Side	15	SA	DFT-s- OFDM QPSK	Receiver off	1	271	633332/3500	21.90	20.40	0.214	0.022	1.41	0.302	/
			15			Receiver off	50%	67	633332/3500	21.90	20.33	0.254	0.018	1.44	0.365	95
		Front Side	15			Receiver off	1	271	633332/3500	21.90	20.40	0.187	0.130	1.41	0.264	/
			15			Receiver off	50%	67	633332/3500	21.90	20.33	0.206	0.025	1.44	0.296	/
	Div ANT4	Back Side	15			Receiver off	1	271	633332/3500	21.10	19.76	0.098	0.040	1.36	0.133	/
			15			Receiver off	50%	67	633332/3500	21.10	19.68	0.107	0.011	1.39	0.148	/
		Front Side	15			Receiver off	1	271	633332/3500	21.10	19.76	0.022	0.015	1.36	0.030	/
			15			Receiver off	50%	67	633332/3500	21.10	19.68	0.026	0.090	1.39	0.036	/
	Div ANT2	Back Side	15			Receiver off	1	271	633332/3500	17.80	16.63	0.071	0.027	1.31	0.093	/
			15			Receiver off	50%	67	633332/3500	17.80	16.43	0.088	0.070	1.37	0.121	/
		Front Side	15			Receiver off	1	271	633332/3500	17.80	16.63	0.038	0.030	1.31	0.050	/
			15			Receiver off	50%	67	633332/3500	17.80	16.43	0.040	0.016	1.37	0.055	/
	Div ANT3	Back Side	15			Receiver off	1	271	633332/3500	19.40	18.30	0.056	0.029	1.29	0.072	/
			15			Receiver off	50%	67	633332/3500	19.40	18.17	0.057	0.035	1.33	0.076	/
		Front Side	15			Receiver off	1	271	633332/3500	19.40	18.30	0.034	0.070	1.29	0.044	/
			15			Receiver off	50%	67	633332/3500	19.40	18.17	0.022	-0.048	1.33	0.029	/
	Main ANT5	Back Side Battery 2	15			Receiver off	50%	67	633332/3500	21.90	20.33	0.240	0.100	1.44	0.345	/
		Back Side Battery 3	15			Receiver off	50%	67	633332/3500	21.90	20.33	0.237	0.034	1.44	0.340	/
		Back Side Battery 4	15			Receiver off	50%	67	633332/3500	21.90	20.33	0.186	0.090	1.44	0.267	/
						Receiver off	50%	67	633332/3500	21.90	20.33	0.186	0.090	1.44	0.267	/
n78 PC3	Main ANT5	Back Side	15	NSA	DFT-s- OFDM QPSK	Receiver off	1	271	633332/3500	21.90	20.35	0.212	0.030	1.43	0.303	/
			15			Receiver off	50%	67	633332/3500	21.90	20.40	0.243	0.028	1.41	0.343	/
		Front Side	15			Receiver off	1	271	633332/3500	21.90	20.35	0.193	0.020	1.43	0.276	/
			15			Receiver off	50%	67	633332/3500	21.90	20.40	0.221	0.040	1.41	0.312	/
	Div ANT4	Back Side	15			Receiver off	1	1	633332/3500	21.10	19.71	0.113	-0.080	1.38	0.156	/
			15			Receiver off	50%	67	633332/3500	21.10	19.74	0.107	0.020	1.37	0.146	/
		Front Side	15			Receiver off	1	1	633332/3500	21.10	19.71	0.024	0.016	1.38	0.033	/
			15			Receiver off	50%	67	633332/3500	21.10	19.74	0.023	0.048	1.37	0.031	/
	Div	Back Side	15			Receiver off	1	271	633332/3500	17.80	16.68	0.073	0.022	1.29	0.094	/
						Receiver off	50%	67	633332/3500	21.10	19.74	0.023	0.048	1.37	0.031	/
						Receiver off	1	271	633332/3500	17.80	16.68	0.073	0.022	1.29	0.094	/
						Receiver off	50%	67	633332/3500	21.10	19.74	0.023	0.048	1.37	0.031	/

	ANT2	Front Side	15		Receiver off	50%	67	633332/3500	17.80	16.42	0.084	0.038	1.37	0.115	/
			15		Receiver off	1	271	633332/3500	17.80	16.68	0.039	0.010	1.29	0.050	/
			15		Receiver off	50%	67	633332/3500	17.80	16.42	0.039	0.120	1.37	0.054	/
	Div ANT3	Back Side	15		Receiver off	1	271	633332/3500	20.90	19.76	0.075	0.026	1.30	0.098	/
			15		Receiver off	50%	67	633332/3500	20.90	19.58	0.079	-0.040	1.36	0.107	/
		Front Side	15		Receiver off	1	271	633332/3500	20.90	19.76	0.039	0.010	1.30	0.051	/
			15		Receiver off	50%	67	633332/3500	20.90	19.58	0.042	0.011	1.36	0.057	/
			15		Receiver off	50%	67	633332/3500	20.90	19.58	0.042	0.011	1.36	0.057	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
2.4G	ANT7	Back Side	15	802.11b	98.0%	Receiver off	1/2412	19.00	17.42	0.192	-0.026	1.47	0.282	/
		Front Side	15	802.11b	98.0%	Receiver off	1/2412	19.00	17.42	0.083	0.110	1.47	0.122	/
		Back Side Battery 2	15	802.11b	98.0%	Receiver off	1/2412	19.00	17.42	0.210	0.020	1.47	0.308	/
		Back Side Battery 3	15	802.11b	98.0%	Receiver off	1/2412	19.00	17.42	0.259	0.050	1.47	0.380	96
		Back Side Battery 4	15	802.11b	98.0%	Receiver off	1/2412	19.00	17.42	0.241	0.010	1.47	0.354	/
U-NII-1	ANT8	Back Side	15	802.11nHT40	100.0%	Receiver off	46/5230	18.00	16.47	0.130	0.024	1.42	0.185	/
		Front Side	15	802.11nHT40	100.0%	Receiver off	46/5230	18.00	16.47	0.055	0.018	1.42	0.078	/
		Back Side Battery 2	15	802.11nHT40	100.0%	Receiver off	46/5230	18.00	16.47	0.146	-0.020	1.42	0.208	/
		Back Side Battery 3	15	802.11nHT40	100.0%	Receiver off	46/5230	18.00	16.47	0.084	0.110	1.42	0.119	/
		Back Side Battery 4	15	802.11nHT40	100.0%	Receiver off	46/5230	18.00	16.47	0.090	0.060	1.42	0.128	/
U-NII-2A	ANT8	Back Side	15	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.158	0.022	1.35	0.214	/
		Front Side	15	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.061	0.038	1.35	0.082	/
		Back Side Battery 2	15	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.149	0.015	1.35	0.201	/
		Back Side Battery 3	15	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.101	0.080	1.35	0.137	/
		Back Side Battery 4	15	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.098	0.110	1.35	0.133	/
U-NII-2C	ANT8	Back Side	15	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	0.267	0.012	1.21	0.323	/
		Front Side	15	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	0.103	-0.090	1.21	0.125	/
		Back Side Battery 2	15	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	0.235	0.042	1.21	0.284	/
		Back Side Battery 3	15	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	0.230	0.120	1.21	0.278	/
		Back Side Battery 4	15	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	0.201	0.022	1.21	0.243	/
U-NII-3	ANT8	Back Side	15	802.11nHT40	100.0%	Receiver off	151/5755	18.00	16.73	0.271	0.100	1.34	0.363	/

		Front Side	15	802.11nHT40	100.0%	Receiver off	151/5755	18.00	16.73	0.109	0.036	1.34	0.146	/
		Back Side Battery 2	15	802.11nHT40	100.0%	Receiver off	151/5755	18.00	16.73	0.274	0.014	1.34	0.367	97
		Back Side Battery 3	15	802.11nHT40	100.0%	Receiver off	151/5755	18.00	16.73	0.263	0.120	1.34	0.352	/
		Back Side Battery 4	15	802.11nHT40	100.0%	Receiver off	151/5755	18.00	16.73	0.213	0.050	1.34	0.285	/

Hotspot SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM 850	Main (ANT 0)	Back Side	10	GPRS 3TX Slots	Hotspot on	-	-	190/836.6	26.00	24.04	0.092	-0.070	1.57	0.144	/
		Front Side	10	GPRS 3TX Slots	Hotspot on	-	-	190/836.6	26.00	24.04	0.047	-0.020	1.57	0.074	/
		Left Edge	10	GPRS 3TX Slots	Hotspot on	-	-	190/836.6	26.00	24.04	0.097	0.040	1.57	0.152	/
		Right Edge	10	GPRS 3TX Slots	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	GPRS 3TX Slots	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	GPRS 3TX Slots	Hotspot on	-	-	190/836.6	26.00	24.04	0.041	-0.080	1.57	0.064	/
	Main (ANT 0)	Left Edge Battery 2	10	GPRS 3TX Slots	Hotspot on	-	-	190/836.6	26.00	24.04	0.081	-0.028	1.57	0.127	/
		Left Edge Battery 3	10	GPRS 3TX Slots	Hotspot on	-	-	190/836.6	26.00	24.04	0.094	0.040	1.57	0.148	/
		Left Edge Battery 4	10	GPRS 3TX Slots	Hotspot on	-	-	190/836.6	26.00	24.04	0.124	-0.012	1.57	0.195	98
GSM 1900	Main (ANT 1)	Back Side	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	26.50	24.75	0.224	0.040	1.50	0.335	/
		Front Side	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	26.50	24.75	0.129	0.070	1.50	0.193	/
		Left Edge	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	26.50	24.75	0.064	-0.120	1.50	0.096	/
		Right Edge	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	26.50	24.75	0.115	-0.080	1.50	0.172	/
		Top Edge	10	GPRS 3TX Slots	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	26.50	24.75	0.353	0.110	1.50	0.528	/
	Div (ANT 2)	Back Side	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	19.60	18.46	0.137	0.010	1.30	0.178	/
		Front Side	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	19.60	18.46	0.063	0.110	1.30	0.082	/
		Left Edge	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	19.60	18.46	0.025	0.110	1.30	0.033	/
		Right Edge	10	GPRS 3TX Slots	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	19.60	18.46	0.232	0.030	1.30	0.302	/
		Bottom Edge	10	GPRS 3TX Slots	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Main (ANT 1)	Bottom Edge Battery 2	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	26.50	24.75	0.376	0.026	1.50	0.563	99
		Bottom Edge Battery 3	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	26.50	24.75	0.315	0.038	1.50	0.471	/
		Bottom Edge Battery 4	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	26.50	24.75	0.337	0.020	1.50	0.504	/
WCDMA II	Main (ANT 1)	Back Side	10	RMC	Hotspot on	-	-	9400/1880	22.00	20.82	0.390	0.010	1.31	0.512	/
		Front Side	10	RMC	Hotspot on	-	-	9400/1880	22.00	20.82	0.253	0.010	1.31	0.332	/
		Left Edge	10	RMC	Hotspot on	-	-	9400/1880	22.00	20.82	0.089	0.020	1.31	0.117	/
		Right Edge	10	RMC	Hotspot on	-	-	9400/1880	22.00	20.82	0.150	-0.020	1.31	0.197	/
		Top Edge	10	RMC	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot on	-	-	9400/1880	22.00	20.82	0.409	-0.010	1.31	0.537	/
	Div (ANT 2)	Back Side	10	RMC	Hotspot on	-	-	9400/1880	14.10	12.82	0.106	0.010	1.34	0.142	/
		Front Side	10	RMC	Hotspot on	-	-	9400/1880	14.10	12.82	0.066	0.080	1.34	0.089	/
		Left Edge	10	RMC	Hotspot on	-	-	9400/1880	14.10	12.82	0.018	-0.050	1.34	0.024	/

		Right Edge	10	RMC	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	RMC	Hotspot on	-	-	9400/1880	14.10	12.82	0.228	0.050	1.34	0.306	/
		Bottom Edge	10	RMC	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Main (ANT 1)	Bottom Edge Battery 2	10	RMC	Hotspot on	-	-	9400/1880	22.00	20.82	0.393	0.033	1.31	0.516	/
		Bottom Edge Battery 3	10	RMC	Hotspot on	-	-	9400/1880	22.00	20.82	0.373	0.027	1.31	0.489	/
		Bottom Edge Battery 4	10	RMC	Hotspot on	-	-	9400/1880	22.00	20.82	0.419	0.090	1.31	0.550	100
WCDMA IV	Main (ANT 1)	Back Side	10	RMC	Hotspot on	-	-	1413/1732.6	22.00	21.08	0.418	0.010	1.24	0.517	/
		Front Side	10	RMC	Hotspot on	-	-	1413/1732.6	22.00	21.08	0.210	0.010	1.24	0.260	/
		Left Edge	10	RMC	Hotspot on	-	-	1413/1732.6	22.00	21.08	0.106	0.020	1.24	0.131	/
		Right Edge	10	RMC	Hotspot on	-	-	1413/1732.6	22.00	21.08	0.137	0.010	1.24	0.169	/
		Top Edge	10	RMC	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot on	-	-	1413/1732.6	22.00	21.08	0.394	0.010	1.24	0.487	/
	Div (ANT 2)	Back Side	10	RMC	Hotspot on	-	-	1413/1732.6	16.60	15.83	0.080	-0.010	1.19	0.096	/
		Front Side	10	RMC	Hotspot on	-	-	1413/1732.6	16.60	15.83	0.031	-0.020	1.19	0.037	/
		Left Edge	10	RMC	Hotspot on	-	-	1413/1732.6	16.60	15.83	0.024	0.047	1.19	0.029	/
		Right Edge	10	RMC	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	RMC	Hotspot on	-	-	1413/1732.6	16.60	15.83	0.123	0.060	1.19	0.147	/
		Bottom Edge	10	RMC	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Main (ANT 1)	Back Side Battery 2	10	RMC	Hotspot on	-	-	1413/1732.6	22.00	21.08	0.440	0.028	1.24	0.544	/
		Back Side Battery 3	10	RMC	Hotspot on	-	-	1413/1732.6	22.00	21.08	0.415	-0.026	1.24	0.513	/
		Back Side Battery 4	10	RMC	Hotspot on	-	-	1413/1732.6	22.00	21.08	0.462	0.017	1.24	0.571	101
WCDMA V	Main (ANT 0)	Back Side	10	RMC	Hotspot on	-	-	4183/836.6	25.00	23.88	0.232	-0.020	1.29	0.300	/
		Front Side	10	RMC	Hotspot on	-	-	4183/836.6	25.00	23.88	0.150	-0.030	1.29	0.194	/
		Left Edge	10	RMC	Hotspot on	-	-	4183/836.6	25.00	23.88	0.279	0.080	1.29	0.361	/
		Right Edge	10	RMC	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	RMC	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot on	-	-	4183/836.6	25.00	23.88	0.099	0.010	1.29	0.128	/
	Main (ANT 0)	Left Edge Battery 2	10	RMC	Hotspot on	-	-	4183/836.6	25.00	23.88	0.275	0.013	1.29	0.356	/
		Left Edge Battery 3	10	RMC	Hotspot on	-	-	4183/836.6	25.00	23.88	0.308	0.024	1.29	0.399	102
		Left Edge Battery 4	10	RMC	Hotspot on	-	-	4183/836.6	25.00	23.88	0.266	0.010	1.29	0.344	/
LTE 2	Main (ANT 1)	Back Side	10	QPSK	Hotspot on	1	50	18900/1880	23.00	21.47	0.331	0.018	1.42	0.471	/
			10	QPSK	Hotspot on	50%	50	18900/1880	23.00	21.50	0.318	0.026	1.41	0.449	/
		Front Side	10	QPSK	Hotspot on	1	50	18900/1880	23.00	21.47	0.231	0.049	1.42	0.329	/
			10	QPSK	Hotspot on	50%	50	18900/1880	23.00	21.50	0.302	0.033	1.41	0.427	/

		Left Edge	10	QPSK	Hotspot on	1	50	18900/1880	23.00	21.47	0.058	0.020	1.42	0.082	/
			10	QPSK	Hotspot on	50%	50	18900/1880	23.00	21.50	0.045	-0.010	1.41	0.064	/
		Right Edge	10	QPSK	Hotspot on	1	50	18900/1880	23.00	21.47	0.167	0.027	1.42	0.238	/
			10	QPSK	Hotspot on	50%	50	18900/1880	23.00	21.50	0.150	0.018	1.41	0.212	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	50	18900/1880	23.00	21.47	0.425	0.027	1.42	0.604	/
			10	QPSK	Hotspot on	50%	50	18900/1880	23.00	21.50	0.459	0.020	1.41	0.648	/
	Div (ANT 2)	Back Side	10	QPSK	Hotspot on	1	0	18900/1880	16.10	14.40	0.186	0.048	1.48	0.275	/
			10	QPSK	Hotspot on	50%	25	18700/1860	16.10	14.47	0.181	0.120	1.46	0.263	/
		Front Side	10	QPSK	Hotspot on	1	0	18900/1880	16.10	14.40	0.123	0.049	1.48	0.182	/
			10	QPSK	Hotspot on	50%	25	18700/1860	16.10	14.47	0.123	0.031	1.46	0.179	/
		Left Edge	10	QPSK	Hotspot on	1	0	18900/1880	16.10	14.40	0.043	0.015	1.48	0.064	/
			10	QPSK	Hotspot on	50%	25	18700/1860	16.10	14.47	0.043	0.011	1.46	0.063	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	0	18900/1880	16.10	14.40	0.324	0.010	1.48	0.479	/
			10	QPSK	Hotspot on	50%	25	18700/1860	16.10	14.47	0.285	-0.018	1.46	0.415	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Main (ANT 1)	Bottom Edge Battery 2	10	QPSK	Hotspot on	50%	50	18900/1880	23.00	21.50	0.461	0.025	1.41	0.651	103
		Bottom Edge Battery 3	10	QPSK	Hotspot on	50%	50	18900/1880	23.00	21.50	0.400	0.038	1.41	0.565	/
		Bottom Edge Battery 4	10	QPSK	Hotspot on	50%	50	18900/1880	23.00	21.50	0.438	0.010	1.41	0.619	/
LTE 4	Main (ANT 1)	Back Side	10	QPSK	Hotspot on	1	0	20300/1745	22.50	21.03	0.413	0.016	1.40	0.579	/
			10	QPSK	Hotspot on	50%	25	20300/1745	22.50	21.08	0.424	-0.014	1.39	0.588	/
		Front Side	10	QPSK	Hotspot on	1	0	20300/1745	22.50	21.03	0.164	0.018	1.40	0.230	/
			10	QPSK	Hotspot on	50%	25	20300/1745	22.50	21.08	0.223	0.050	1.39	0.309	/
		Left Edge	10	QPSK	Hotspot on	1	0	20300/1745	22.50	21.03	0.083	0.017	1.40	0.116	/
			10	QPSK	Hotspot on	50%	25	20300/1745	22.50	21.08	0.065	0.050	1.39	0.090	/
		Right Edge	10	QPSK	Hotspot on	1	0	20300/1745	22.50	21.03	0.180	0.049	1.40	0.253	/
			10	QPSK	Hotspot on	50%	25	20300/1745	22.50	21.08	0.185	-0.018	1.39	0.257	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	0	20300/1745	22.50	21.03	0.462	0.052	1.40	0.648	104
			10	QPSK	Hotspot on	50%	25	20300/1745	22.50	21.08	0.435	0.011	1.39	0.603	/
	Div (ANT 2)	Back Side	10	QPSK	Hotspot on	1	0	20300/1745	17.80	16.40	0.092	-0.026	1.38	0.127	/
			10	QPSK	Hotspot on	50%	0	20300/1745	17.80	16.47	0.096	0.040	1.36	0.130	/
		Front Side	10	QPSK	Hotspot on	1	0	20300/1745	17.80	16.40	0.074	0.037	1.38	0.102	/
			10	QPSK	Hotspot on	50%	0	20300/1745	17.80	16.47	0.085	0.015	1.36	0.115	/
		Left Edge	10	QPSK	Hotspot on	1	0	20300/1745	17.80	16.40	0.041	0.049	1.38	0.057	/
			10	QPSK	Hotspot on	1	0	20300/1745	17.80	16.40	0.041	0.049	1.38	0.057	/

			10	QPSK	Hotspot on	50%	0	20300/1745	17.80	16.47	0.045	0.022	1.36	0.061	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	0	20300/1745	17.80	16.40	0.191	0.018	1.38	0.264	/
			10	QPSK	Hotspot on	50%	0	20300/1745	17.80	16.47	0.203	0.023	1.36	0.276	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	10		N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	
	Main (ANT 1)	Bottom Edge Battery 2	10	QPSK	Hotspot on	1	0	20300/1745	22.50	21.03	0.448	-0.100	1.40	0.628	/
		Bottom Edge Battery 3	10	QPSK	Hotspot on	1	0	20300/1745	22.50	21.03	0.410	0.015	1.40	0.575	/
		Bottom Edge Battery 4	10	QPSK	Hotspot on	1	0	20300/1745	22.50	21.03	0.429	-0.033	1.40	0.602	/

LTE 5	Main (ANT 0)	Back Side	10	QPSK	Hotspot on	1	0	20450/829	25.00	23.52	0.325	0.012	1.41	0.457	105
			10	QPSK	Hotspot on	50%	0	20450/829	24.00	22.65	0.314	0.030	1.36	0.428	/
		Front Side	10	QPSK	Hotspot on	1	0	20450/829	25.00	23.52	0.148	0.024	1.41	0.208	/
			10	QPSK	Hotspot on	50%	0	20450/829	24.00	22.65	0.131	0.016	1.36	0.179	/
		Left Edge	10	QPSK	Hotspot on	1	0	20450/829	25.00	23.52	0.212	0.021	1.41	0.298	/
			10	QPSK	Hotspot on	50%	0	20450/829	24.00	22.65	0.196	0.090	1.36	0.267	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Bottom Edge	10	QPSK	Hotspot on	1	0	20450/829	25.00	23.52	0.108	0.023	1.41	0.152	/	
		10	QPSK	Hotspot on	50%	0	20450/829	24.00	22.65	0.063	0.011	1.36	0.086	/	
	Main (ANT 0)	Back Side Battery 2	10	QPSK	Hotspot on	1	0	20450/829	25.00	23.52	0.277	-0.160	1.41	0.389	/
		Back Side Battery 3	10	QPSK	Hotspot on	1	0	20450/829	25.00	23.52	0.264	0.042	1.41	0.371	/
		Back Side Battery 4	10	QPSK	Hotspot on	1	0	20450/829	25.00	23.52	0.262	0.039	1.41	0.368	/

LTE 7	Main (ANT 1)	Back Side	10	QPSK	Hotspot on	1	99	21100/2535	21.50	20.31	0.301	0.026	1.32	0.396	/
			10	QPSK	Hotspot on	50%	25	21100/2535	21.50	20.39	0.308	0.161	1.29	0.398	/
		Front Side	10	QPSK	Hotspot on	1	99	21100/2535	21.50	20.31	0.193	0.011	1.32	0.254	/
			10	QPSK	Hotspot on	50%	25	21100/2535	21.50	20.39	0.214	-0.050	1.29	0.276	/
		Left Edge	10	QPSK	Hotspot on	1	99	21100/2535	21.50	20.31	0.047	0.018	1.32	0.062	/
			10	QPSK	Hotspot on	50%	25	21100/2535	21.50	20.39	0.054	0.042	1.29	0.070	/
		Right Edge	10	QPSK	Hotspot on	1	99	21100/2535	21.50	20.31	0.294	-0.090	1.32	0.387	/
			10	QPSK	Hotspot on	50%	25	21100/2535	21.50	20.39	0.280	0.110	1.29	0.362	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	99	21100/2535	21.50	20.31	0.298	0.032	1.32	0.392	/
			10	QPSK	Hotspot on	50%	25	21100/2535	21.50	20.39	0.303	0.015	1.29	0.391	/

	Div (ANT 2)	Back Side	10	QPSK	Hotspot on	1	99	21350/2560	15.70	14.81	0.075	0.039	1.23	0.092	/
			10	QPSK	Hotspot on	50%	50	21350/2560	15.70	14.94	0.071	0.040	1.19	0.085	/
		Front Side	10	QPSK	Hotspot on	1	99	21350/2560	15.70	14.81	0.046	0.100	1.23	0.056	/
			10	QPSK	Hotspot on	50%	50	21350/2560	15.70	14.94	0.050	0.060	1.19	0.060	/
		Left Edge	10	QPSK	Hotspot on	1	99	21350/2560	15.70	14.81	0.094	-0.027	1.23	0.115	/
			10	QPSK	Hotspot on	50%	50	21350/2560	15.70	14.94	0.102	0.018	1.19	0.122	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	99	21350/2560	15.70	14.81	0.068	0.049	1.23	0.083	/
			10	QPSK	Hotspot on	50%	50	21350/2560	15.70	14.94	0.072	-0.020	1.19	0.086	/
	Main (ANT 1)	Back Side Battery 2	10	QPSK	Hotspot on	50%	25	21100/2535	21.50	20.39	0.334	-0.100	1.29	0.431	106
			10	QPSK	Hotspot on	50%	25	21100/2535	21.50	20.39	0.322	0.026	1.29	0.416	/
		Back Side Battery 4	10	QPSK	Hotspot on	50%	25	21100/2535	21.50	20.39	0.301	0.048	1.29	0.389	/
LTE 12	Main (ANT 0)	Back Side	10	QPSK	Hotspot on	1	25	23095/707.5	25.00	23.59	0.212	0.037	1.38	0.293	/
			10	QPSK	Hotspot on	50%	25	23130/711	24.00	22.69	0.161	0.018	1.35	0.218	/
		Front Side	10	QPSK	Hotspot on	1	25	23095/707.5	25.00	23.59	0.126	0.024	1.38	0.174	/
			10	QPSK	Hotspot on	50%	25	23130/711	24.00	22.69	0.098	-0.090	1.35	0.133	/
		Left Edge	10	QPSK	Hotspot on	1	25	23095/707.5	25.00	23.59	0.210	0.100	1.38	0.291	/
			10	QPSK	Hotspot on	50%	25	23130/711	24.00	22.69	0.152	0.025	1.35	0.206	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	25	23095/707.5	25.00	23.59	0.062	0.014	1.38	0.086	/
			10	QPSK	Hotspot on	50%	25	23130/711	24.00	22.69	0.058	0.020	1.35	0.078	/
	Main (ANT 0)	Back Side Battery 2	10	QPSK	Hotspot on	1	25	23095/707.5	25.00	23.59	0.225	-0.160	1.38	0.311	/
		Back Side Battery 3	10	QPSK	Hotspot on	1	25	23095/707.5	25.00	23.59	0.268	0.022	1.38	0.371	107
		Back Side Battery 4	10	QPSK	Hotspot on	1	25	23095/707.5	25.00	23.59	0.214	0.017	1.38	0.296	/
LTE 13	Main (ANT 0)	Back Side	10	QPSK	Hotspot on	1	0	23230/782	24.50	22.91	0.192	0.024	1.44	0.277	/
			10	QPSK	Hotspot on	50%	25	23230/782	23.50	22.08	0.151	0.090	1.39	0.209	/
		Front Side	10	QPSK	Hotspot on	1	0	23230/782	24.50	22.91	0.124	0.013	1.44	0.179	/
			10	QPSK	Hotspot on	50%	25	23230/782	23.50	22.08	0.098	-0.080	1.39	0.136	/
		Left Edge	10	QPSK	Hotspot on	1	0	23230/782	24.50	22.91	0.131	0.120	1.44	0.189	/
			10	QPSK	Hotspot on	50%	25	23230/782	23.50	22.08	0.104	0.026	1.39	0.144	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

		Top Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	0	23230/782	24.50	22.91	0.050	0.059	1.44	0.072	/
			10	QPSK	Hotspot on	50%	25	23230/782	23.50	22.08	0.049	0.030	1.39	0.068	/
	Main (ANT 0)	Back Side Battery 2	10	QPSK	Hotspot on	1	0	23230/782	24.50	22.91	0.189	-0.010	1.44	0.273	/
		Back Side Battery 3	10	QPSK	Hotspot on	1	0	23230/782	24.50	22.91	0.187	0.040	1.44	0.270	/
		Back Side Battery 4	10	QPSK	Hotspot on	1	0	23230/782	24.50	22.91	0.197	0.032	1.44	0.284	108
LTE 26	Main (ANT 0)	Back Side	10	QPSK	Hotspot on	1	0	26765/821.5	25.00	23.48	0.263	0.025	1.42	0.373	109
			10	QPSK	Hotspot on	50%	18	26765/821.5	24.00	22.55	0.201	0.028	1.40	0.281	/
		Front Side	10	QPSK	Hotspot on	1	0	26765/821.5	25.00	23.48	0.138	0.011	1.42	0.196	/
			10	QPSK	Hotspot on	50%	18	26765/821.5	24.00	22.55	0.117	-0.040	1.40	0.163	/
		Left Edge	10	QPSK	Hotspot on	1	0	26765/821.5	25.00	23.48	0.186	0.120	1.42	0.264	/
			10	QPSK	Hotspot on	50%	18	26765/821.5	24.00	22.55	0.167	0.090	1.40	0.233	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	0	26765/821.5	25.00	23.48	0.105	-0.024	1.42	0.149	/
			10	QPSK	Hotspot on	50%	18	26765/821.5	24.00	22.55	0.059	0.018	1.40	0.082	/
	Main (ANT 0)	Back Side Battery 2	10	QPSK	Hotspot on	1	0	26765/821.5	25.00	23.48	0.243	-0.020	1.42	0.345	/
		Back Side Battery 3	10	QPSK	Hotspot on	1	0	26765/821.5	25.00	23.48	0.250	0.011	1.42	0.355	/
		Back Side Battery 4	10	QPSK	Hotspot on	1	0	26765/821.5	25.00	23.48	0.224	0.023	1.42	0.318	/
LTE 38	Main (ANT 5)	Back Side	10	QPSK	Hotspot on	1	50	37850/2580	19.90	18.81	0.147	0.049	1.29	0.189	/
			10	QPSK	Hotspot on	50%	25	37850/2580	19.90	18.93	0.169	0.050	1.25	0.211	/
		Front Side	10	QPSK	Hotspot on	1	50	37850/2580	19.90	18.81	0.149	0.100	1.29	0.192	/
			10	QPSK	Hotspot on	50%	25	37850/2580	19.90	18.93	0.096	0.029	1.25	0.120	/
		Left Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	QPSK	Hotspot on	1	50	37850/2580	19.90	18.81	0.162	0.038	1.29	0.208	/
			10	QPSK	Hotspot on	50%	25	37850/2580	19.90	18.93	0.144	0.010	1.25	0.180	/
		Top Edge	10	QPSK	Hotspot on	1	50	37850/2580	19.90	18.81	0.088	0.029	1.29	0.113	/
			10	QPSK	Hotspot on	50%	25	37850/2580	19.90	18.93	0.095	-0.010	1.25	0.119	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div (ANT 3)	Back Side	10	QPSK	Hotspot on	1	99	37850/2580	18.30	18.99	0.056	0.027	0.85	0.048	/
			10	QPSK	Hotspot on	50%	50	37850/2580	18.30	18.97	0.058	0.010	0.86	0.050	/

LTE 41 PC3	Div (ANT 1)	Front Side	10	QPSK	Hotspot on	1	99	37850/2580	18.30	18.99	0.038	0.022	0.85	0.032	/
			10	QPSK	Hotspot on	50%	50	37850/2580	18.30	18.97	0.031	0.038	0.86	0.027	/
		Left Edge	10	QPSK	Hotspot on	1	99	37850/2580	18.30	18.99	0.001	0.015	0.85	0.001	/
			10	QPSK	Hotspot on	50%	50	37850/2580	18.30	18.97	0.001	0.011	0.86	0.001	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	99	37850/2580	18.30	18.99	0.001	-0.080	0.85	0.001	/
			10	QPSK	Hotspot on	50%	50	37850/2580	18.30	18.97	0.001	0.015	0.86	0.001	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div (ANT 2)	Back Side	10	QPSK	Hotspot on	1	0	37850/2580	22.00	20.72	0.179	0.022	1.34	0.240	/
			10	QPSK	Hotspot on	50%	0	37850/2580	21.00	19.70	0.154	-0.090	1.35	0.208	/
		Front Side	10	QPSK	Hotspot on	1	0	37850/2580	22.00	20.72	0.075	0.025	1.34	0.101	/
			10	QPSK	Hotspot on	50%	0	37850/2580	21.00	19.70	0.063	0.030	1.35	0.085	/
		Left Edge	10	QPSK	Hotspot on	1	0	37850/2580	22.00	20.72	0.002	0.011	1.34	0.003	/
			10	QPSK	Hotspot on	50%	0	37850/2580	21.00	19.70	0.002	0.018	1.35	0.003	/
		Right Edge	10	QPSK	Hotspot on	1	0	37850/2580	22.00	20.72	0.152	-0.100	1.34	0.204	/
			10	QPSK	Hotspot on	50%	0	37850/2580	21.00	19.70	0.122	0.024	1.35	0.165	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	0	37850/2580	22.00	20.72	0.249	0.032	1.34	0.334	110
			10	QPSK	Hotspot on	50%	0	37850/2580	21.00	19.70	0.223	0.018	1.35	0.301	/
	Div (ANT 1)	Back Side	10	QPSK	Hotspot on	1	99	38150/2610	18.70	18.45	0.102	-0.060	1.06	0.108	/
			10	QPSK	Hotspot on	50%	25	38150/2610	18.70	18.38	0.107	-0.080	1.08	0.115	/
		Front Side	10	QPSK	Hotspot on	1	99	38150/2610	18.70	18.45	0.057	0.110	1.06	0.060	/
			10	QPSK	Hotspot on	50%	25	38150/2610	18.70	18.38	0.060	-0.027	1.08	0.065	/
		Left Edge	10	QPSK	Hotspot on	1	99	38150/2610	18.70	18.45	0.098	0.018	1.06	0.104	/
			10	QPSK	Hotspot on	50%	25	38150/2610	18.70	18.38	0.104	0.040	1.08	0.112	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	99	38150/2610	18.70	18.45	0.090	-0.040	1.06	0.095	/
			10	QPSK	Hotspot on	50%	25	38150/2610	18.70	18.38	0.102	0.023	1.08	0.110	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
LTE 41 PC3	Div (ANT 5)	Back Side	10	QPSK	Hotspot on	1	99	40185/2549.5	19.40	18.09	0.167	0.022	1.35	0.226	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	19.40	18.24	0.161	0.043	1.31	0.210	/
		Front Side	10	QPSK	Hotspot on	1	99	40185/2549.5	19.40	18.09	0.111	0.150	1.35	0.150	/
	Div (ANT 1)	Bottom Edge Battery 2	10	QPSK	Hotspot on	1	0	37850/2580	22.00	20.72	0.186	0.028	1.34	0.250	/
		Bottom Edge Battery 3	10	QPSK	Hotspot on	1	0	37850/2580	22.00	20.72	0.220	0.021	1.34	0.295	/
		Bottom Edge Battery 4	10	QPSK	Hotspot on	1	0	37850/2580	22.00	20.72	0.214	0.015	1.34	0.287	/

Div (ANT 3)	Left Edge	10	QPSK	Hotspot on	50%	25	40185/2549.5	19.40	18.24	0.105	-0.080	1.31	0.137	/
		10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Right Edge	10	QPSK	Hotspot on	1	99	40185/2549.5	19.40	18.09	0.179	0.046	1.35	0.242	/
		10	QPSK	Hotspot on	50%	25	40185/2549.5	19.40	18.24	0.187	-0.098	1.31	0.244	/
	Top Edge	10	QPSK	Hotspot on	1	99	40185/2549.5	19.40	18.09	0.056	-0.090	1.35	0.076	/
		10	QPSK	Hotspot on	50%	25	40185/2549.5	19.40	18.24	0.052	0.015	1.31	0.068	/
	Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Back Side	10	QPSK	Hotspot on	1	99	40620/2593	18.30	17.49	0.040	0.048	1.21	0.048	/
		10	QPSK	Hotspot on	50%	50	40185/2549.5	18.30	17.56	0.044	0.032	1.19	0.052	/
	Front Side	10	QPSK	Hotspot on	1	99	40620/2593	18.30	17.49	0.001	0.015	1.21	0.001	/
		10	QPSK	Hotspot on	50%	50	40185/2549.5	18.30	17.56	0.001	-0.100	1.19	0.001	/
	Left Edge	10	QPSK	Hotspot on	1	99	40620/2593	18.30	17.49	0.001	0.028	1.21	0.001	/
		10	QPSK	Hotspot on	50%	50	40185/2549.5	18.30	17.56	0.002	0.022	1.19	0.002	/
	Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Top Edge	10	QPSK	Hotspot on	1	99	40620/2593	18.30	17.49	0.001	0.090	1.21	0.001	/
		10	QPSK	Hotspot on	50%	50	40185/2549.5	18.30	17.56	0.001	0.041	1.19	0.001	/
	Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Div (ANT 1)	Back Side	10	QPSK	Hotspot on	1	0	40185/2549.5	21.50	20.86	0.213	0.016	1.16	0.247	111
		10	QPSK	Hotspot on	50%	50	39750/2506	20.50	20.01	0.128	0.028	1.12	0.143	/
	Front Side	10	QPSK	Hotspot on	1	0	40185/2549.5	21.50	20.86	0.084	-0.090	1.16	0.097	/
		10	QPSK	Hotspot on	50%	50	39750/2506	20.50	20.01	0.066	0.046	1.12	0.074	/
	Left Edge	10	QPSK	Hotspot on	1	0	40185/2549.5	21.50	20.86	0.002	0.028	1.16	0.002	/
		10	QPSK	Hotspot on	50%	50	39750/2506	20.50	20.01	0.002	0.014	1.12	0.002	/
	Right Edge	10	QPSK	Hotspot on	1	0	40185/2549.5	21.50	20.86	0.155	0.011	1.16	0.180	/
		10	QPSK	Hotspot on	50%	50	39750/2506	20.50	20.01	0.115	-0.100	1.12	0.129	/
	Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Bottom Edge	10	QPSK	Hotspot on	1	0	40185/2549.5	21.50	20.86	0.187	0.042	1.16	0.217	/
		10	QPSK	Hotspot on	50%	50	39750/2506	20.50	20.01	0.123	0.030	1.12	0.138	/
Div (ANT 2)	Back Side	10	QPSK	Hotspot on	1	0	41490/2680	17.70	17.54	0.087	0.060	1.04	0.090	/
		10	QPSK	Hotspot on	50%	25	41055/2636.5	17.70	17.48	0.091	0.012	1.05	0.096	/
	Front Side	10	QPSK	Hotspot on	1	0	41490/2680	17.70	17.54	0.058	0.050	1.04	0.060	/
		10	QPSK	Hotspot on	50%	25	41055/2636.5	17.70	17.48	0.052	0.120	1.05	0.055	/
	Left Edge	10	QPSK	Hotspot on	1	0	41490/2680	17.70	17.54	0.080	0.035	1.04	0.083	/
		10	QPSK	Hotspot on	50%	25	41055/2636.5	17.70	17.48	0.075	0.090	1.05	0.079	/
	Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Top Edge	10	QPSK	Hotspot on	1	0	41490/2680	17.70	17.54	0.079	0.047	1.04	0.082	/
		10	QPSK	Hotspot on	50%	25	41055/2636.5	17.70	17.48	0.074	0.022	1.05	0.078	/

LTE 41 PC2		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Main (ANT 5)	Back Side	10	QPSK	Hotspot on	1	0	39750/2506	21.00	19.96	0.159	0.031	1.27	0.202	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	21.00	20.11	0.159	0.010	1.23	0.195	/
		Front Side	10	QPSK	Hotspot on	1	0	39750/2506	21.00	19.96	0.097	0.027	1.27	0.123	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	21.00	20.11	0.096	0.011	1.23	0.118	/
		Left Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	QPSK	Hotspot on	1	0	39750/2506	21.00	19.96	0.193	0.127	1.27	0.245	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	21.00	20.11	0.161	0.049	1.23	0.198	/
		Top Edge	10	QPSK	Hotspot on	1	0	39750/2506	21.00	19.96	0.083	0.020	1.27	0.105	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	21.00	20.11	0.077	0.018	1.23	0.095	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div (ANT 3)	Back Side	10	QPSK	Hotspot on	1	99	40185/2549.5	19.90	19.60	0.043	0.015	1.07	0.046	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	19.90	19.69	0.043	0.060	1.05	0.045	/
		Front Side	10	QPSK	Hotspot on	1	99	40185/2549.5	19.90	19.60	0.001	0.042	1.07	0.001	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	19.90	19.69	0.001	0.011	1.05	0.001	/
		Left Edge	10	QPSK	Hotspot on	1	99	40185/2549.5	19.90	19.60	0.001	0.024	1.07	0.001	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	19.90	19.69	0.001	-0.026	1.05	0.001	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	99	40185/2549.5	19.90	19.60	0.001	0.018	1.07	0.001	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	19.90	19.69	0.001	0.027	1.05	0.001	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div (ANT 1)	Back Side	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.07	0.182	0.023	1.24	0.225	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	23.00	22.26	0.187	-0.015	1.19	0.222	/
		Front Side	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.07	0.095	0.080	1.24	0.118	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	23.00	22.26	0.076	0.049	1.19	0.090	/
		Left Edge	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.07	0.002	-0.020	1.24	0.002	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	23.00	22.26	0.002	0.014	1.19	0.002	/
		Right Edge	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.07	0.192	0.060	1.24	0.238	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	23.00	22.26	0.150	0.020	1.19	0.178	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.07	0.207	0.017	1.24	0.256	/
			10	QPSK	Hotspot on	50%	25	40185/2549.5	23.00	22.26	0.196	0.025	1.19	0.232	/
	Div (ANT 2)	Back Side	10	QPSK	Hotspot on	1	0	41490/2680	19.30	19.12	0.093	0.090	1.04	0.097	/
			10	QPSK	Hotspot on	50%	25	41055/2636.5	19.30	19.12	0.088	0.030	1.04	0.092	/
		Front Side	10	QPSK	Hotspot on	1	0	41490/2680	19.30	19.12	0.051	0.048	1.04	0.053	/
			10	QPSK	Hotspot on	50%	25	41055/2636.5	19.30	19.12	0.048	0.015	1.04	0.050	/
		Left Edge	10	QPSK	Hotspot on	1	0	41490/2680	19.30	19.12	0.080	0.020	1.04	0.083	/

		Right Edge	10	QPSK	Hotspot on	50%	25	41055/2636.5	19.30	19.12	0.086	0.048	1.04	0.090	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	0	41490/2680	19.30	19.12	0.085	0.010	1.04	0.089	/
			10	QPSK	Hotspot on	50%	25	41055/2636.5	19.30	19.12	0.071	0.015	1.04	0.074	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div (ANT 1)	Bottom Edge Battery 2	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.07	0.185	0.020	1.24	0.229	/
		Bottom Edge Battery 3	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.07	0.148	0.131	1.24	0.183	/
		Bottom Edge Battery 4	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.07	0.172	-0.010	1.24	0.213	/
LTE 66	Main (ANT 1)	Back Side	10	QPSK	Hotspot on	1	0	132322/1745	22.50	21.52	0.391	-0.100	1.25	0.490	/
			10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.386	-0.080	1.26	0.486	/
		Front Side	10	QPSK	Hotspot on	1	0	132322/1745	22.50	21.52	0.293	0.015	1.25	0.367	/
			10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.291	-0.180	1.26	0.366	/
		Left Edge	10	QPSK	Hotspot on	1	0	132322/1745	22.50	21.52	0.100	0.024	1.25	0.125	/
			10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.097	0.070	1.26	0.122	/
		Right Edge	10	QPSK	Hotspot on	1	0	132322/1745	22.50	21.52	0.124	0.011	1.25	0.155	/
			10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.120	0.025	1.26	0.151	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	0	132322/1745	22.50	21.52	0.516	0.038	1.25	0.647	/
			10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.538	0.100	1.26	0.677	/
	Div (ANT 2)	Back Side	10	QPSK	Hotspot on	1	0	132322/1745	17.70	16.31	0.098	0.016	1.38	0.135	/
			10	QPSK	Hotspot on	50%	50	132072/1720	17.70	16.37	0.111	0.040	1.36	0.151	/
		Front Side	10	QPSK	Hotspot on	1	0	132322/1745	17.70	16.31	0.074	0.026	1.38	0.102	/
			10	QPSK	Hotspot on	50%	50	132072/1720	17.70	16.37	0.064	0.040	1.36	0.087	/
		Left Edge	10	QPSK	Hotspot on	1	0	132322/1745	17.70	16.31	0.044	0.038	1.38	0.061	/
			10	QPSK	Hotspot on	50%	50	132072/1720	17.70	16.37	0.040	0.017	1.36	0.054	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	0	132322/1745	17.70	16.31	0.233	-0.030	1.38	0.321	/
			10	QPSK	Hotspot on	50%	50	132072/1720	17.70	16.37	0.204	0.072	1.36	0.277	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Main (ANT 1)	Bottom Edge SIM2	10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.604	0.018	1.26	0.760	112
		Bottom Edge Battery 2	10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.569	0.000	1.26	0.716	/
		Bottom Edge Battery 3	10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.487	0.032	1.26	0.613	/

		Bottom Edge Battery 4	10	QPSK	Hotspot on	50%	50	132322/1745	22.50	21.50	0.532	0.011	1.26	0.670	/

Band	Antenna	Test Position	Dist. (mm)	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
n2	Main ANT1	Back Side	10	SA	DFT-s-OFDM QPSK	Hotspot on	1	104	372000/1860	22.80	21.81	0.340	0.042	1.26	0.427	/
			10			Hotspot on	50%	25	376000/1880	22.80	21.82	0.348	0.039	1.25	0.436	/
		Front Side	10			Hotspot on	1	104	372000/1860	22.80	21.81	0.197	0.011	1.26	0.247	/
			10			Hotspot on	50%	25	376000/1880	22.80	21.82	0.205	-0.018	1.25	0.257	/
		Left Edge	10			Hotspot on	1	104	372000/1860	22.80	21.81	0.001	0.100	1.26	0.001	/
			10			Hotspot on	50%	25	376000/1880	22.80	21.82	0.001	0.024	1.25	0.001	/
		Right Edge	10			Hotspot on	1	104	372000/1860	22.80	21.81	0.100	0.038	1.26	0.126	/
			10			Hotspot on	50%	25	376000/1880	22.80	21.82	0.150	0.150	1.25	0.188	/
		Top Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10			Hotspot on	1	104	372000/1860	22.80	21.81	0.418	-0.060	1.26	0.525	/
			10			Hotspot on	50%	25	376000/1880	22.80	21.82	0.413	0.037	1.25	0.518	/
	Div ANT2	Back Side	10			Hotspot on	1	1	372000/1860	14.90	13.94	0.121	0.022	1.25	0.151	/
			10			Hotspot on	50%	25	372000/1860	14.90	13.81	0.124	-0.080	1.29	0.159	/
		Front Side	10			Hotspot on	1	1	372000/1860	14.90	13.94	0.083	-0.026	1.25	0.104	/
			10			Hotspot on	50%	25	372000/1860	14.90	13.81	0.085	0.033	1.29	0.109	/
		Left Edge	10			Hotspot on	1	1	372000/1860	14.90	13.94	0.001	0.014	1.25	0.001	/
			10			Hotspot on	50%	25	372000/1860	14.90	13.81	0.001	0.050	1.29	0.001	/
		Right Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10			Hotspot on	1	1	372000/1860	14.90	13.94	0.216	0.013	1.25	0.269	/
			10			Hotspot on	50%	25	372000/1860	14.90	13.81	0.217	0.048	1.29	0.279	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Main ANT1	Bottom Edge Battery 2	10			Hotspot on	1	104	372000/1860	22.80	21.81	0.490	-0.078	1.26	0.615	113
		Bottom Edge Battery 3	10			Hotspot on	1	104	372000/1860	22.80	21.81	0.385	-0.020	1.26	0.484	/
		Bottom Edge Battery 4	10			Hotspot on	1	104	372000/1860	22.80	21.81	0.421	0.032	1.26	0.529	/
n7	Main ANT1	Back Side	10	SA&NSA	DFT-s-OFDM QPSK	Hotspot on	1	104	502000/2510	20.30	19.08	0.281	-0.026	1.32	0.372	/
			10			Hotspot on	50%	25	507000/2535	20.30	19.08	0.316	0.143	1.32	0.418	114
		Front Side	10			Hotspot on	1	104	502000/2510	20.30	19.08	0.198	0.014	1.32	0.262	/
			10			Hotspot on	50%	25	507000/2535	20.30	19.08	0.205	0.029	1.32	0.271	/
		Left Edge	10			Hotspot on	1	104	502000/2510	20.30	19.08	0.001	-0.065	1.32	0.001	/
			10			Hotspot on	50%	25	507000/2535	20.30	19.08	0.001	0.078	1.32	0.001	/
		Right Edge	10			Hotspot on	1	104	502000/2510	20.30	19.08	0.285	0.020	1.32	0.377	/
			10			Hotspot on	1	104	502000/2510	20.30	19.08	0.285	0.020	1.32	0.377	/

			10			Hotspot on	50%	25	507000/2535	20.30	19.08	0.248	0.027	1.32	0.328	/			
		Top Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/			
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/			
		Bottom Edge	10			Hotspot on	1	104	502000/2510	20.30	19.08	0.292	0.018	1.32	0.387	/			
			10			Hotspot on	50%	25	507000/2535	20.30	19.08	0.239	0.023	1.32	0.317	/			
		Div ANT2	Back Side			10	Hotspot on	1	104	502000/2510	15.60	14.68	0.090	0.048	1.24	0.111	/		
						10	Hotspot on	50%	25	507000/2535	15.60	14.76	0.099	0.010	1.21	0.120	/		
			Front Side			10	Hotspot on	1	104	502000/2510	15.60	14.68	0.040	-0.029	1.24	0.049	/		
						10	Hotspot on	50%	25	507000/2535	15.60	14.76	0.043	0.030	1.21	0.052	/		
			Left Edge			10	Hotspot on	1	104	502000/2510	15.60	14.68	0.109	0.015	1.24	0.135	/		
	10					Hotspot on	50%	25	507000/2535	15.60	14.76	0.106	0.048	1.21	0.129	/			
	Right Edge		10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/			
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/			
	Top Edge		10			Hotspot on	1	104	502000/2510	15.60	14.68	0.075	0.015	1.24	0.093	/			
			10			Hotspot on	50%	25	507000/2535	15.60	14.76	0.073	0.024	1.21	0.089	/			
	Bottom Edge		10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/			
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/			
	Main ANT1		Back Side Battery 2			10	Hotspot on	50%	25	507000/2535	20.30	19.08	0.268	0.020	1.32	0.355	/		
			Back Side Battery 3			10	Hotspot on	50%	25	507000/2535	20.30	19.08	0.290	0.061	1.32	0.384	/		
			Back Side Battery 4			10	Hotspot on	50%	25	507000/2535	20.30	19.08	0.262	0.072	1.32	0.347	/		
	n38		Main ANT5			Back Side	10	SA&NSA	DFT-s-OFDM QPSK	Hotspot on	1	1	516000/2580	16.70	15.98	0.124	0.030	1.18	0.146
		10					Hotspot on			50%	12	519000/2595	16.70	15.73	0.118	0.016	1.25	0.148	/
		Front Side				10	Hotspot on			1	1	516000/2580	16.70	15.98	0.076	-0.050	1.18	0.090	/
						10	Hotspot on			50%	12	519000/2595	16.70	15.73	0.069	0.010	1.25	0.086	/
		Left Edge				10	Hotspot on			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
						10	Hotspot on			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge				10	Hotspot on			1	1	516000/2580	16.70	15.98	0.132	0.012	1.18	0.156	/
						10	Hotspot on			50%	12	519000/2595	16.70	15.73	0.112	0.016	1.25	0.140	/
		Top Edge				10	Hotspot on			1	1	516000/2580	16.70	15.98	0.053	0.038	1.18	0.063	/
						10	Hotspot on			50%	12	519000/2595	16.70	15.73	0.071	0.040	1.25	0.089	/
Bottom Edge		10		Hotspot on	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	/			
		10		Hotspot on	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	/			
Div ANT3		Back Side	10	Hotspot on	1	49	522000/2610			15.40	14.37	0.044	0.014	1.27	0.056	/			
			10	Hotspot on	50%	12	516000/2580			15.40	14.25	0.043	0.025	1.30	0.056	/			
		Front Side	10	Hotspot on	1	49	522000/2610			15.40	14.37	0.001	0.011	1.27	0.001	/			
			10	Hotspot on	50%	12	516000/2580			15.40	14.25	0.001	-0.092	1.30	0.001	/			
		Left Edge	10	Hotspot on	1	49	522000/2610			15.40	14.37	0.001	0.060	1.27	0.001	/			
			10	Hotspot on	50%	12	516000/2580			15.40	14.25	0.001	0.032	1.30	0.001	/			
		Right Edge	10	Hotspot on	1	49	522000/2610			15.40	14.37	0.001	0.018	1.27	0.001	/			
			10	Hotspot on	50%	12	516000/2580			15.40	14.25	0.001	0.027	1.30	0.001	/			

		Top Edge	10			Hotspot on	1	49	522000/2610	15.40	14.37	0.001	0.120	1.27	0.001	/
			10			Hotspot on	50%	12	516000/2580	15.40	14.25	0.001	0.018	1.30	0.001	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT1	Back Side	10			Hotspot on	1	1	516000/2580	20.40	19.30	0.351	0.030	1.29	0.452	/
			10			Hotspot on	50%	12	522000/2610	20.40	19.58	0.411	-0.044	1.21	0.496	/
		Front Side	10			Hotspot on	1	1	516000/2580	20.40	19.30	0.134	0.026	1.29	0.173	/
			10			Hotspot on	50%	12	522000/2610	20.40	19.58	0.146	0.070	1.21	0.176	/
		Left Edge	10			Hotspot on	1	1	516000/2580	20.40	19.30	0.001	0.015	1.29	0.001	/
			10			Hotspot on	50%	12	522000/2610	20.40	19.58	0.001	0.011	1.21	0.001	/
		Right Edge	10			Hotspot on	1	1	516000/2580	20.40	19.30	0.158	0.030	1.29	0.204	/
			10			Hotspot on	50%	12	522000/2610	20.40	19.58	0.153	0.024	1.21	0.185	/
		Top Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10			Hotspot on	1	1	516000/2580	20.40	19.30	0.212	0.027	1.29	0.273	/
			10			Hotspot on	50%	12	522000/2610	20.40	19.58	0.294	0.018	1.21	0.355	/
	Div ANT2	Back Side	10			Hotspot on	1	1	516000/2580	15.00	13.84	0.100	-0.029	1.31	0.131	/
			10			Hotspot on	50%	12	519000/2595	15.00	13.76	0.096	0.040	1.33	0.128	/
		Front Side	10			Hotspot on	1	1	516000/2580	15.00	13.84	0.041	0.100	1.31	0.054	/
			10			Hotspot on	50%	12	519000/2595	15.00	13.76	0.043	0.052	1.33	0.057	/
		Left Edge	10			Hotspot on	1	1	516000/2580	15.00	13.84	0.097	0.038	1.31	0.127	/
			10			Hotspot on	50%	12	519000/2595	15.00	13.76	0.082	0.025	1.33	0.109	/
		Right Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10			Hotspot on	1	1	516000/2580	15.00	13.84	0.071	0.012	1.31	0.093	/
			10			Hotspot on	50%	12	519000/2595	15.00	13.76	0.065	0.041	1.33	0.086	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT1	Bottom Edge Battery 2	10			Hotspot on	50%	12	522000/2610	20.40	19.58	0.444	0.024	1.21	0.536	115
		Bottom Edge Battery 3	10			Hotspot on	50%	12	522000/2610	20.40	19.58	0.386	0.061	1.21	0.466	/
		Bottom Edge Battery 4	10			Hotspot on	50%	12	522000/2610	20.40	19.58	0.357	-0.010	1.21	0.431	/
n41 PC2	Main ANT5	Back Side	10	SA	DFT-s-OFDM QPSK	Hotspot on	1	271	509202/2546.01	16.70	15.40	0.108	0.022	1.35	0.146	/
			10			Hotspot on	50%	67	518598/2592.99	16.70	15.26	0.105	0.014	1.39	0.146	/
		Front Side	10			Hotspot on	1	271	509202/2546.01	16.70	15.40	0.062	-0.039	1.35	0.084	/
			10			Hotspot on	50%	67	518598/2592.99	16.70	15.26	0.061	0.055	1.39	0.085	/
		Left Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10			Hotspot on	1	271	509202/2546.01	16.70	15.40	0.104	0.014	1.35	0.140	/
			10			Hotspot on	50%	67	518598/2592.99	16.70	15.26	0.105	0.080	1.39	0.146	/
		Top Edge	10			Hotspot on	1	271	509202/2546.01	16.70	15.40	0.073	0.029	1.35	0.098	/
			10			Hotspot on	1	271	509202/2546.01	16.70	15.40	0.073	0.029	1.35	0.098	/

			10		Hotspot on	50%	67	518598/2592.99	16.70	15.26	0.064	0.014	1.39	0.089	/
		Bottom Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT3	Back Side	10		Hotspot on	1	271	528000/2640	15.50	14.33	0.022	-0.067	1.31	0.029	/
			10		Hotspot on	50%	67	528000/2640	15.50	14.12	0.014	0.012	1.37	0.019	/
		Front Side	10		Hotspot on	1	271	528000/2640	15.50	14.33	0.001	0.018	1.31	0.001	/
			10		Hotspot on	50%	67	528000/2640	15.50	14.12	0.001	0.020	1.37	0.001	/
		Left Edge	10		Hotspot on	1	271	528000/2640	15.50	14.33	0.001	0.050	1.31	0.001	/
			10		Hotspot on	50%	67	528000/2640	15.50	14.12	0.001	0.019	1.37	0.001	/
		Right Edge	10		Hotspot on	1	271	528000/2640	15.50	14.33	0.001	0.038	1.31	0.001	/
			10		Hotspot on	50%	67	528000/2640	15.50	14.12	0.001	0.044	1.37	0.001	/
		Top Edge	10		Hotspot on	1	271	528000/2640	15.50	14.33	0.001	0.020	1.31	0.001	/
			10		Hotspot on	50%	67	528000/2640	15.50	14.12	0.001	0.040	1.37	0.001	/
		Bottom Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT1	Back Side	10		Hotspot on	1	1	528000/2640	20.50	19.98	0.382	-0.100	1.13	0.431	/
			10		Hotspot on	50%	67	528000/2640	20.50	19.60	0.324	0.070	1.23	0.399	/
		Front Side	10		Hotspot on	1	1	528000/2640	20.50	19.98	0.238	0.033	1.13	0.268	/
			10		Hotspot on	50%	67	528000/2640	20.50	19.60	0.153	0.015	1.23	0.188	/
		Left Edge	10		Hotspot on	1	1	528000/2640	20.50	19.98	0.001	0.010	1.13	0.001	/
			10		Hotspot on	50%	67	528000/2640	20.50	19.60	0.001	0.014	1.23	0.001	/
		Right Edge	10		Hotspot on	1	1	528000/2640	20.50	19.98	0.249	-0.030	1.13	0.281	/
			10		Hotspot on	50%	67	528000/2640	20.50	19.60	0.159	0.039	1.23	0.196	/
		Top Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10		Hotspot on	1	1	528000/2640	20.50	19.98	0.253	0.027	1.13	0.285	/
			10		Hotspot on	50%	67	528000/2640	20.50	19.60	0.255	0.044	1.23	0.314	/
	Div ANT2	Back Side	10		Hotspot on	1	271	518598/2592.99	14.80	13.41	0.081	0.170	1.38	0.112	/
			10		Hotspot on	50%	67	518598/2592.99	14.80	13.25	0.073	-0.102	1.43	0.104	/
		Front Side	10		Hotspot on	1	271	518598/2592.99	14.80	13.41	0.001	0.014	1.38	0.001	/
			10		Hotspot on	50%	67	518598/2592.99	14.80	13.25	0.001	0.040	1.43	0.001	/
		Left Edge	10		Hotspot on	1	271	518598/2592.99	14.80	13.41	0.065	0.026	1.38	0.090	/
			10		Hotspot on	50%	67	518598/2592.99	14.80	13.25	0.071	0.080	1.43	0.101	/
		Right Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10		Hotspot on	1	271	518598/2592.99	14.80	13.41	0.071	-0.010	1.38	0.098	/
			10		Hotspot on	50%	67	518598/2592.99	14.80	13.25	0.052	0.023	1.43	0.074	/
		Bottom Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT1	Bottom Edge Battery 2	10		Hotspot on	1	1	528000/2640	20.50	19.98	0.458	0.027	1.13	0.516	116
		Bottom Edge Battery 3	10		Hotspot on	1	1	528000/2640	20.50	19.98	0.292	0.040	1.13	0.329	/

		Bottom Edge Battery 4	10			Hotspot on	1	1	528000/2640	20.50	19.98	0.336	0.070	1.13	0.379	/
n41 PC3	Main ANT5	Back Side	10	SA	DFT-s-OFDM QPSK	Hotspot on	1	1	528000/2640	16.70	15.73	0.128	0.060	1.25	0.160	/
			10			Hotspot on	50%	67	518598/2592.99	16.70	15.68	0.117	-0.026	1.26	0.148	/
		Front Side	10			Hotspot on	1	1	528000/2640	16.70	15.73	0.081	0.010	1.25	0.101	/
			10			Hotspot on	50%	67	518598/2592.99	16.70	15.68	0.075	0.030	1.26	0.095	/
		Left Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10			Hotspot on	1	1	528000/2640	16.70	15.73	0.131	0.028	1.25	0.164	/
			10			Hotspot on	50%	67	518598/2592.99	16.70	15.68	0.116	0.013	1.26	0.147	/
		Top Edge	10			Hotspot on	1	1	528000/2640	16.70	15.73	0.078	0.010	1.25	0.098	/
			10			Hotspot on	50%	67	518598/2592.99	16.70	15.68	0.082	0.011	1.26	0.104	/
	Div ANT3	Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side	10			Hotspot on	1	271	518598/2592.99	15.50	14.16	0.018	0.020	1.36	0.025	/
			10			Hotspot on	50%	67	528000/2640	15.50	14.03	0.015	0.038	1.40	0.021	/
		Front Side	10			Hotspot on	1	271	518598/2592.99	15.50	14.16	0.001	0.025	1.36	0.001	/
			10			Hotspot on	50%	67	528000/2640	15.50	14.03	0.001	-0.012	1.40	0.001	/
		Left Edge	10			Hotspot on	1	271	518598/2592.99	15.50	14.16	0.001	0.040	1.36	0.001	/
			10			Hotspot on	50%	67	528000/2640	15.50	14.03	0.001	0.028	1.40	0.001	/
		Right Edge	10			Hotspot on	1	271	518598/2592.99	15.50	14.16	0.001	0.034	1.36	0.001	/
			10			Hotspot on	50%	67	528000/2640	15.50	14.03	0.001	0.032	1.40	0.001	/
	Div ANT1	Top Edge	10			Hotspot on	1	271	518598/2592.99	15.50	14.16	0.001	0.010	1.36	0.001	/
			10			Hotspot on	50%	67	528000/2640	15.50	14.03	0.001	-0.100	1.40	0.001	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side	10			Hotspot on	1	1	509202/2546.01	20.50	19.74	0.345	0.096	1.19	0.411	/
			10			Hotspot on	50%	67	509202/2546.01	20.50	19.53	0.303	0.120	1.25	0.379	/
		Front Side	10			Hotspot on	1	1	509202/2546.01	20.50	19.74	0.246	0.022	1.19	0.293	/
			10			Hotspot on	50%	67	509202/2546.01	20.50	19.53	0.205	-0.018	1.25	0.256	/
		Left Edge	10			Hotspot on	1	1	509202/2546.01	20.50	19.74	0.001	0.013	1.19	0.001	/
			10			Hotspot on	50%	67	509202/2546.01	20.50	19.53	0.001	0.010	1.25	0.001	/
	Div ANT2	Right Edge	10			Hotspot on	1	1	509202/2546.01	20.50	19.74	0.283	0.036	1.19	0.337	/
			10			Hotspot on	50%	67	509202/2546.01	20.50	19.53	0.249	0.091	1.25	0.311	/
		Top Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10			Hotspot on	1	1	509202/2546.01	20.50	19.74	0.338	0.020	1.19	0.403	/
			10			Hotspot on	50%	67	509202/2546.01	20.50	19.53	0.264	-0.025	1.25	0.330	/
		Back Side	10			Hotspot on	1	271	518598/2592.99	14.80	13.41	0.076	-0.100	1.38	0.105	/
			10			Hotspot on	50%	67	528000/2640	14.80	13.30	0.071	0.070	1.41	0.100	/
		Front Side	10			Hotspot on	1	271	518598/2592.99	14.80	13.41	0.001	0.013	1.38	0.001	/
			10			Hotspot on	50%	67	528000/2640	14.80	13.30	0.001	0.010	1.41	0.001	/
		Left Edge	10			Hotspot on	1	271	518598/2592.99	14.80	13.41	0.066	-0.018	1.38	0.091	/

			10			Hotspot on	50%	67	528000/2640	14.80	13.30	0.065	0.024	1.41	0.092	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10			Hotspot on	1	271	518598/2592.99	14.80	13.41	0.058	0.050	1.38	0.080	/
			10			Hotspot on	50%	67	528000/2640	14.80	13.30	0.056	0.073	1.41	0.079	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
n66	Main ANT1	Back Side	10	SA&NSA	DFT-s-OFDM QPSK	Hotspot on	1	104	354000/1770	22.40	21.26	0.375	0.026	1.30	0.488	/
			10			Hotspot on	50%	25	354000/1770	22.40	21.25	0.413	0.038	1.30	0.538	/
		Front Side	10			Hotspot on	1	104	354000/1770	22.40	21.26	0.222	-0.020	1.30	0.289	/
			10			Hotspot on	50%	25	354000/1770	22.40	21.25	0.242	0.028	1.30	0.315	/
		Left Edge	10			Hotspot on	1	104	354000/1770	22.40	21.26	0.001	0.030	1.30	0.001	/
			10			Hotspot on	50%	25	354000/1770	22.40	21.25	0.001	0.015	1.30	0.001	/
		Right Edge	10			Hotspot on	1	104	354000/1770	22.40	21.26	0.150	0.090	1.30	0.195	/
			10			Hotspot on	50%	25	354000/1770	22.40	21.25	0.162	0.024	1.30	0.211	/
		Top Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Bottom Edge	10			Hotspot on	1	104	354000/1770	22.40	21.26	0.477	-0.160	1.30	0.620	/
			10			Hotspot on	50%	25	354000/1770	22.40	21.25	0.512	-0.017	1.30	0.667	117
	Div ANT2	Back Side	10			Hotspot on	1	104	344000/1720	17.50	16.62	0.099	0.030	1.22	0.121	/
			10			Hotspot on	50%	25	344000/1720	17.50	16.53	0.096	0.024	1.25	0.120	/
		Front Side	10			Hotspot on	1	104	344000/1720	17.50	16.62	0.077	0.082	1.22	0.094	/
			10			Hotspot on	50%	25	344000/1720	17.50	16.53	0.069	0.012	1.25	0.086	/
		Left Edge	10			Hotspot on	1	104	344000/1720	17.50	16.62	0.046	0.034	1.22	0.056	/
			10			Hotspot on	50%	25	344000/1720	17.50	16.53	0.045	-0.060	1.25	0.056	/
		Right Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10			Hotspot on	1	104	344000/1720	17.50	16.62	0.198	0.025	1.22	0.242	/
			10			Hotspot on	50%	25	344000/1720	17.50	16.53	0.136	0.011	1.25	0.170	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Main ANT1	Bottom Edge Battery 2	10			Hotspot on	50%	25	354000/1770	22.40	21.25	0.499	-0.030	1.30	0.650	/
		Bottom Edge Battery 3	10			Hotspot on	50%	25	354000/1770	22.40	21.25	0.432	-0.020	1.30	0.563	/
		Bottom Edge Battery 4	10			Hotspot on	50%	25	354000/1770	22.40	21.25	0.458	0.017	1.30	0.597	/
		Bottom Edge	10		CP-OFDM QPSK	Hotspot on	1	1	344000/1720	22.40	21.11	0.492	0.019	1.35	0.662	/
			10			Hotspot on	1	1	344000/1720	22.40	21.11	0.492	0.019	1.35	0.662	/
n78 PC2	Main ANT5	Back Side	10	SA	DFT-s-OFDM QPSK	Hotspot on	1	271	633332/3500	16.30	14.93	0.123	0.020	1.37	0.169	/
			10			Hotspot on	50%	67	633332/3500	16.30	14.83	0.122	0.013	1.40	0.171	/
		Front Side	10			Hotspot on	1	271	633332/3500	16.30	14.93	0.105	-0.060	1.37	0.144	/
			10			Hotspot on	50%	67	633332/3500	16.30	14.83	0.118	0.020	1.40	0.166	/

		Left Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10		Hotspot on	1	271	633332/3500	16.30	14.93	0.095	0.110	1.37	0.130	/
			10		Hotspot on	50%	67	633332/3500	16.30	14.83	0.104	0.027	1.40	0.146	/
		Top Edge	10		Hotspot on	1	271	633332/3500	16.30	14.93	0.107	0.043	1.37	0.147	/
			10		Hotspot on	50%	67	633332/3500	16.30	14.83	0.146	0.090	1.40	0.205	/
		Bottom Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT4	Back Side	10		Hotspot on	1	1	633332/3500	16.40	15.17	0.080	0.015	1.33	0.106	/
			10		Hotspot on	50%	67	633332/3500	16.40	15.06	0.096	0.070	1.36	0.131	/
		Front Side	10		Hotspot on	1	1	633332/3500	16.40	15.17	0.032	0.028	1.33	0.042	/
			10		Hotspot on	50%	67	633332/3500	16.40	15.06	0.025	0.040	1.36	0.034	/
		Left Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10		Hotspot on	1	1	633332/3500	16.40	15.17	0.037	-0.026	1.33	0.049	/
			10		Hotspot on	50%	67	633332/3500	16.40	15.06	0.024	0.024	1.36	0.033	/
		Top Edge	10		Hotspot on	1	1	633332/3500	16.40	15.17	0.025	0.030	1.33	0.033	/
			10		Hotspot on	50%	67	633332/3500	16.40	15.06	0.025	-0.010	1.36	0.034	/
		Bottom Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT2	Back Side	10		Hotspot on	1	271	633332/3500	13.10	12.35	0.054	0.028	1.19	0.064	/
			10		Hotspot on	50%	67	633332/3500	13.10	12.17	0.067	0.010	1.24	0.083	/
		Front Side	10		Hotspot on	1	271	633332/3500	13.10	12.35	0.029	0.050	1.19	0.034	/
			10		Hotspot on	50%	67	633332/3500	13.10	12.17	0.025	0.021	1.24	0.031	/
		Left Edge	10		Hotspot on	1	271	633332/3500	13.10	12.35	0.060	0.060	1.19	0.071	/
			10		Hotspot on	50%	67	633332/3500	13.10	12.17	0.071	-0.022	1.24	0.088	/
		Right Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10		Hotspot on	1	271	633332/3500	13.10	12.35	0.022	0.018	1.19	0.026	/
			10		Hotspot on	50%	67	633332/3500	13.10	12.17	0.026	0.024	1.24	0.032	/
		Bottom Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT3	Back Side	10		Hotspot on	1	271	633332/3500	14.60	13.54	0.048	0.032	1.28	0.061	/
			10		Hotspot on	50%	67	633332/3500	14.60	13.36	0.038	0.150	1.33	0.051	/
		Front Side	10		Hotspot on	1	271	633332/3500	14.60	13.54	0.029	0.016	1.28	0.037	/
			10		Hotspot on	50%	67	633332/3500	14.60	13.36	0.024	0.042	1.33	0.032	/
		Left Edge	10		Hotspot on	1	271	633332/3500	14.60	13.54	0.041	-0.090	1.28	0.052	/
			10		Hotspot on	50%	67	633332/3500	14.60	13.36	0.044	0.064	1.33	0.059	/
		Right Edge	10		Hotspot on	1	271	633332/3500	14.60	13.54	0.029	0.038	1.28	0.037	/
			10		Hotspot on	50%	67	633332/3500	14.60	13.36	0.019	-0.100	1.33	0.025	/
		Top Edge	10		Hotspot on	1	271	633332/3500	14.60	13.54	0.023	0.025	1.28	0.029	/
			10		Hotspot on	50%	67	633332/3500	14.60	13.36	0.027	0.018	1.33	0.036	/
		Bottom Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10			Hotspot on	50%	67	633332/3500	16.30	14.83	0.156	0.151	1.40	0.219	118
		Battery 2	10													
		Top Edge	10			Hotspot on	50%	67	633332/3500	16.30	14.83	0.138	-0.100	1.40	0.194	/
	Main ANT5	Battery 3	10													
		Top Edge	10			Hotspot on	50%	67	633332/3500	16.30	14.83	0.112	0.024	1.40	0.157	/
		Battery 4	10													
		Top Edge	10			Hotspot on	50%	67	633332/3500	16.30	14.83	0.112	0.024	1.40	0.157	/
n78 PC3	Main ANT5	Back Side	10	NSA	DFT-s-OFDM	Hotspot on	1	271	633332/3500	16.30	14.87	0.119	0.032	1.39	0.165	/
			10			Hotspot on	50%	67	633332/3500	16.30	14.75	0.127	0.100	1.43	0.181	/
		Front Side	10			Hotspot on	1	271	633332/3500	16.30	14.87	0.108	0.018	1.39	0.150	/
			10			Hotspot on	50%	67	633332/3500	16.30	14.75	0.118	-0.022	1.43	0.169	/
		Left Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10			Hotspot on	1	271	633332/3500	16.30	14.87	0.087	0.035	1.39	0.121	/
			10			Hotspot on	50%	67	633332/3500	16.30	14.75	0.103	0.018	1.43	0.147	/
		Top Edge	10			Hotspot on	1	271	633332/3500	16.30	14.87	0.115	0.024	1.39	0.160	/
			10			Hotspot on	50%	67	633332/3500	16.30	14.75	0.129	0.060	1.43	0.184	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT4	Back Side	10			Hotspot on	1	1	633332/3500	16.40	15.16	0.086	0.025	1.33	0.114	/
			10			Hotspot on	50%	67	633332/3500	16.40	15.11	0.100	0.100	1.35	0.135	/
		Front Side	10			Hotspot on	1	1	633332/3500	16.40	15.16	0.032	0.039	1.33	0.043	/
			10			Hotspot on	50%	67	633332/3500	16.40	15.11	0.024	0.022	1.35	0.032	/
		Left Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10			Hotspot on	1	1	633332/3500	16.40	15.16	0.038	0.090	1.33	0.051	/
			10			Hotspot on	50%	67	633332/3500	16.40	15.11	0.039	-0.018	1.35	0.052	/
		Top Edge	10			Hotspot on	1	1	633332/3500	16.40	15.16	0.031	0.025	1.33	0.041	/
			10			Hotspot on	50%	67	633332/3500	16.40	15.11	0.025	0.030	1.35	0.034	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
	Div ANT2	Back Side	10			Hotspot on	1	271	633332/3500	13.10	12.42	0.058	-0.100	1.17	0.068	/
			10			Hotspot on	50%	67	633332/3500	13.10	12.17	0.062	0.015	1.24	0.077	/
		Front Side	10			Hotspot on	1	271	633332/3500	13.10	12.42	0.025	0.022	1.17	0.029	/
			10			Hotspot on	50%	67	633332/3500	13.10	12.17	0.032	0.037	1.24	0.040	/
		Left Edge	10			Hotspot on	1	271	633332/3500	13.10	12.42	0.070	0.014	1.17	0.082	/
			10			Hotspot on	50%	67	633332/3500	13.10	12.17	0.068	-0.060	1.24	0.084	/
		Right Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	10			Hotspot on	1	271	633332/3500	13.10	12.42	0.023	0.010	1.17	0.027	/
			10			Hotspot on	50%	67	633332/3500	13.10	12.17	0.025	0.012	1.24	0.031	/
		Bottom Edge	10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10			Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

	Div ANT3	Back Side	10		Hotspot on	1	271	633332/3500	16.10	15.16	0.047	0.030	1.24	0.058	/
			10		Hotspot on	50%	67	633332/3500	16.10	14.95	0.054	0.025	1.30	0.070	/
		Front Side	10		Hotspot on	1	271	633332/3500	16.10	15.16	0.033	0.049	1.24	0.041	/
			10		Hotspot on	50%	67	633332/3500	16.10	14.95	0.021	0.010	1.30	0.027	/
		Left Edge	10		Hotspot on	1	271	633332/3500	16.10	15.16	0.056	0.080	1.24	0.070	/
			10		Hotspot on	50%	67	633332/3500	16.10	14.95	0.030	-0.022	1.30	0.039	/
		Right Edge	10		Hotspot on	1	271	633332/3500	16.10	15.16	0.030	0.010	1.24	0.037	/
			10		Hotspot on	50%	67	633332/3500	16.10	14.95	0.033	0.036	1.30	0.043	/
		Top Edge	10		Hotspot on	1	271	633332/3500	16.10	15.16	0.031	0.028	1.24	0.038	/
			10		Hotspot on	50%	67	633332/3500	16.10	14.95	0.033	0.017	1.30	0.043	/
		Bottom Edge	10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
			10		Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
2.4G	ANT7	Back Side	10	802.11b	98.0%	Hotspot on	1/2412	18.00	16.55	0.336	0.019	1.42	0.479	/
		Front Side	10	802.11b	98.0%	Hotspot on	1/2412	18.00	16.55	0.125	0.024	1.42	0.178	/
		Left Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	802.11b	98.0%	Hotspot on	1/2412	18.00	16.55	0.262	0.038	1.42	0.373	/
		Top Edge	10	802.11b	98.0%	Hotspot on	1/2412	18.00	16.55	0.061	0.100	1.42	0.087	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side Battery 2	10	802.11b	98.0%	Hotspot on	1/2412	18.00	16.55	0.385	0.019	1.42	0.549	/
		Back Side Battery 3	10	802.11b	98.0%	Hotspot on	1/2412	18.00	16.55	0.345	-0.030	1.42	0.492	/
		Back Side Battery 4	10	802.11b	98.0%	Hotspot on	1/2412	18.00	16.55	0.391	-0.020	1.42	0.557	119
U-NII-1	ANT8	Back Side	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.43	0.154	0.140	1.44	0.221	/
		Front Side	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.43	0.055	0.029	1.44	0.079	/
		Left Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.43	0.174	-0.030	1.44	0.250	/
		Top Edge	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.43	0.100	0.017	1.44	0.144	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge Battery 2	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.43	0.182	0.035	1.44	0.261	/
		Right Edge Battery 3	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.43	0.140	-0.050	1.44	0.201	/
		Right Edge Battery 4	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.43	0.165	0.030	1.44	0.237	/
U-NII-3	ANT8	Back Side	10	802.11nHT40	100.0%	Hotspot on	151/5755	17.00	15.81	0.276	0.053	1.32	0.363	/
		Front Side	10	802.11nHT40	100.0%	Hotspot on	151/5755	17.00	15.81	0.147	0.024	1.32	0.193	/
		Left Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

Bluetooth	ANT7	Right Edge	10	802.11nHT40	100.0%	Hotspot on	151/5755	17.00	15.81	0.461	0.172	1.32	0.606	120
		Top Edge	10	802.11nHT40	100.0%	Hotspot on	151/5755	17.00	15.81	0.188	0.039	1.32	0.247	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge Battery 2	10	802.11nHT40	100.0%	Hotspot on	151/5755	17.00	15.81	0.414	0.011	1.32	0.545	/
		Right Edge Battery 3	10	802.11nHT40	100.0%	Hotspot on	151/5755	17.00	15.81	0.429	-0.050	1.32	0.564	/
		Right Edge Battery 4	10	802.11nHT40	100.0%	Hotspot on	151/5755	17.00	15.81	0.407	0.060	1.32	0.535	/
		Back Side	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.072	-0.070	1.80	0.130	/
		Front Side	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.019	0.200	1.80	0.034	/
		Left Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Bluetooth	ANT7	Right Edge	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.054	0.030	1.80	0.097	/
		Top Edge	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.009	-0.030	1.80	0.016	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side Battery 2	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.144	0.012	1.80	0.259	121
		Back Side Battery 3	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.087	0.050	1.80	0.157	/
		Back Side Battery 4	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.082	0.110	1.80	0.148	/
		Back Side	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.082	0.110	1.80	0.148	/
		Front Side	10	DH5	76.0%	Full Power	0/2402	14.50	13.14	0.019	0.200	1.80	0.034	/
		Left Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

Product-specific 10g SAR Evaluation

Band	Antenna	Test Position	Mode	Power Reduction	RB	Offset	Channel Frequency(MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Scaling Factor	Report SAR1g (W/kg)	0mm SAR
GSM 850	Main (ANT 0)	Back Side	GPRS 3TX Slots	Full Power	-	-	190/836.6	30.00	26.00	0.144	2.51	0.363	NO
		Front Side	GPRS 3TX Slots	Full Power	-	-	190/836.6	30.00	26.00	0.074	2.51	0.185	NO
		Left Edge	GPRS 3TX Slots	Full Power	-	-	190/836.6	30.00	26.00	0.152	2.51	0.383	NO
		Right Edge	GPRS 3TX Slots	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	GPRS 3TX Slots	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	GPRS 3TX Slots	Full Power	-	-	190/836.6	30.00	26.00	0.064	2.51	0.162	NO
GSM 1900	Main (ANT 1)	Back Side	GPRS 3TX Slots	Full Power	-	-	661/1880	26.50	26.50	0.335	1.00	0.335	NO
		Front Side	GPRS 3TX Slots	Full Power	-	-	661/1880	26.50	26.50	0.193	1.00	0.193	NO
		Left Edge	GPRS 3TX Slots	Full Power	-	-	661/1880	26.50	26.50	0.096	1.00	0.096	NO
		Right Edge	GPRS 3TX Slots	Full Power	-	-	661/1880	26.50	26.50	0.172	1.00	0.172	NO
		Top Edge	GPRS 3TX Slots	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	GPRS 3TX Slots	Full Power	-	-	661/1880	26.50	26.50	0.528	1.00	0.528	NO
	Div (ANT 2)	Back Side	GPRS 3TX Slots	Full Power	-	-	661/1880	25.00	19.60	0.178	3.47	0.618	NO
		Front Side	GPRS 3TX Slots	Full Power	-	-	661/1880	25.00	19.60	0.082	3.47	0.284	NO
		Left Edge	GPRS 3TX Slots	Full Power	-	-	661/1880	25.00	19.60	0.033	3.47	0.113	NO
		Right Edge	GPRS 3TX Slots	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	GPRS 3TX Slots	Full Power	-	-	661/1880	25.00	19.60	0.302	3.47	1.046	NO
		Bottom Edge	GPRS 3TX Slots	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
WCDMA II	Main (ANT 1)	Back Side	RMC	Full Power	-	-	9400/1880	22.60	22.00	0.512	1.15	0.588	NO
		Front Side	RMC	Full Power	-	-	9400/1880	22.60	22.00	0.332	1.15	0.381	NO
		Left Edge	RMC	Full Power	-	-	9400/1880	22.60	22.00	0.117	1.15	0.134	NO
		Right Edge	RMC	Full Power	-	-	9400/1880	22.60	22.00	0.197	1.15	0.226	NO
		Top Edge	RMC	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	RMC	Full Power	-	-	9400/1880	22.60	22.00	0.537	1.15	0.616	NO
	Div (ANT 2)	Back Side	RMC	Full Power	-	-	9400/1880	20.00	14.10	0.142	3.89	0.554	NO
		Front Side	RMC	Full Power	-	-	9400/1880	20.00	14.10	0.089	3.89	0.345	NO
		Left Edge	RMC	Full Power	-	-	9400/1880	20.00	14.10	0.024	3.89	0.094	NO
		Right Edge	RMC	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	RMC	Full Power	-	-	9400/1880	20.00	14.10	0.306	3.89	1.191	NO
		Bottom Edge	RMC	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
WCDMA IV	Main (ANT 1)	Back Side	RMC	Full Power	-	-	1413/1732.6	22.40	22.00	0.517	1.10	0.566	NO
		Front Side	RMC	Full Power	-	-	1413/1732.6	22.40	22.00	0.260	1.10	0.285	NO
		Left Edge	RMC	Full Power	-	-	1413/1732.6	22.40	22.00	0.131	1.10	0.144	NO
		Right Edge	RMC	Full Power	-	-	1413/1732.6	22.40	22.00	0.169	1.10	0.186	NO
		Top Edge	RMC	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	RMC	Full Power	-	-	1413/1732.6	22.40	22.00	0.487	1.10	0.534	NO
	Div (ANT 2)	Back Side	RMC	Full Power	-	-	1413/1732.6	21.40	16.60	0.096	3.02	0.288	NO
		Front Side	RMC	Full Power	-	-	1413/1732.6	21.40	16.60	0.037	3.02	0.112	NO
		Left Edge	RMC	Full Power	-	-	1413/1732.6	21.40	16.60	0.029	3.02	0.087	NO

		Right Edge	RMC	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	RMC	Full Power	-	-	1413/1732.6	21.40	16.60	0.147	3.02	0.444	NO
		Bottom Edge	RMC	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
LTE 2	Main (ANT 1)	Back Side	QPSK	Full Power	1	50	18900/1880	23.70	23.00	0.471	1.17	0.553	NO
			QPSK	Full Power	50%	50	18900/1880	23.50	23.00	0.449	1.12	0.504	NO
		Front Side	QPSK	Full Power	1	50	18900/1880	23.70	23.00	0.329	1.17	0.386	NO
			QPSK	Full Power	50%	50	18900/1880	23.50	23.00	0.427	1.12	0.479	NO
		Left Edge	QPSK	Full Power	1	50	18900/1880	23.70	23.00	0.082	1.17	0.097	NO
			QPSK	Full Power	50%	50	18900/1880	23.50	23.00	0.064	1.12	0.071	NO
		Right Edge	QPSK	Full Power	1	50	18900/1880	23.70	23.00	0.238	1.17	0.279	NO
			QPSK	Full Power	50%	50	18900/1880	23.50	23.00	0.212	1.12	0.238	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	50	18900/1880	23.70	23.00	0.604	1.17	0.710	NO
			QPSK	Full Power	50%	50	18900/1880	23.50	23.00	0.648	1.12	0.727	NO
	Div (ANT 2)	Back Side	QPSK	Full Power	1	0	18900/1880	21.10	16.10	0.275	3.16	0.870	NO
			QPSK	Full Power	50%	25	18700/1860	21.10	16.10	0.263	3.16	0.833	NO
		Front Side	QPSK	Full Power	1	0	18900/1880	21.10	16.10	0.182	3.16	0.575	NO
			QPSK	Full Power	50%	25	18700/1860	21.10	16.10	0.179	3.16	0.566	NO
		Left Edge	QPSK	Full Power	1	0	18900/1880	21.10	16.10	0.064	3.16	0.201	NO
			QPSK	Full Power	50%	25	18700/1860	21.10	16.10	0.063	3.16	0.198	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	0	18900/1880	21.10	16.10	0.479	3.16	1.515	YES
			QPSK	Full Power	50%	25	18700/1860	21.10	16.10	0.415	3.16	1.312	YES
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
LTE 4	Main (ANT 1)	Back Side	QPSK	Full Power	1	0	20300/1745	23.50	22.50	0.579	1.26	0.729	NO
			QPSK	Full Power	50%	25	20300/1745	23.50	22.50	0.588	1.26	0.740	NO
		Front Side	QPSK	Full Power	1	0	20300/1745	23.50	22.50	0.230	1.26	0.290	NO
			QPSK	Full Power	50%	25	20300/1745	23.50	22.50	0.309	1.26	0.389	NO
		Left Edge	QPSK	Full Power	1	0	20300/1745	23.50	22.50	0.116	1.26	0.147	NO
			QPSK	Full Power	50%	25	20300/1745	23.50	22.50	0.090	1.26	0.113	NO
		Right Edge	QPSK	Full Power	1	0	20300/1745	23.50	22.50	0.253	1.26	0.318	NO
			QPSK	Full Power	50%	25	20300/1745	23.50	22.50	0.257	1.26	0.323	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	0	20300/1745	23.50	22.50	0.648	1.26	0.816	NO
			QPSK	Full Power	50%	25	20300/1745	23.50	22.50	0.603	1.26	0.759	NO
	Div (ANT 2)	Back Side	QPSK	Full Power	1	0	20300/1745	22.60	17.80	0.127	3.02	0.384	NO
			QPSK	Full Power	50%	0	20300/1745	22.50	17.80	0.130	2.95	0.385	NO
		Front Side	QPSK	Full Power	1	0	20300/1745	22.60	17.80	0.102	3.02	0.308	NO
			QPSK	Full Power	50%	0	20300/1745	22.50	17.80	0.115	2.95	0.341	NO

		Left Edge	QPSK	Full Power	1	0	20300/1745	22.60	17.80	0.057	3.02	0.171	NO
			QPSK	Full Power	50%	0	20300/1745	22.50	17.80	0.061	2.95	0.180	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	0	20300/1745	22.60	17.80	0.264	3.02	0.796	NO
			QPSK	Full Power	50%	0	20300/1745	22.50	17.80	0.276	2.95	0.814	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
LTE 7	Main (ANT 1)	Back Side	QPSK	Full Power	1	99	21100/2535	21.90	21.50	0.396	1.10	0.434	NO
			QPSK	Full Power	50%	25	21100/2535	21.90	21.50	0.398	1.10	0.436	NO
		Front Side	QPSK	Full Power	1	99	21100/2535	21.90	21.50	0.254	1.10	0.278	NO
			QPSK	Full Power	50%	25	21100/2535	21.90	21.50	0.276	1.10	0.303	NO
		Left Edge	QPSK	Full Power	1	99	21100/2535	21.90	21.50	0.062	1.10	0.068	NO
			QPSK	Full Power	50%	25	21100/2535	21.90	21.50	0.070	1.10	0.076	NO
		Right Edge	QPSK	Full Power	1	99	21100/2535	21.90	21.50	0.387	1.10	0.424	NO
			QPSK	Full Power	50%	25	21100/2535	21.90	21.50	0.362	1.10	0.396	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	99	21100/2535	21.90	21.50	0.392	1.10	0.430	NO
			QPSK	Full Power	50%	25	21100/2535	21.90	21.50	0.391	1.10	0.429	NO
	Div (ANT 2)	Back Side	QPSK	Full Power	1	99	21350/2560	20.50	15.70	0.092	3.02	0.278	NO
			QPSK	Full Power	50%	50	21350/2560	20.50	15.70	0.085	3.02	0.255	NO
		Front Side	QPSK	Full Power	1	99	21350/2560	20.50	15.70	0.056	3.02	0.171	NO
			QPSK	Full Power	50%	50	21350/2560	20.50	15.70	0.060	3.02	0.180	NO
		Left Edge	QPSK	Full Power	1	99	21350/2560	20.50	15.70	0.115	3.02	0.348	NO
			QPSK	Full Power	50%	50	21350/2560	20.50	15.70	0.122	3.02	0.367	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	99	21350/2560	20.50	15.70	0.083	3.02	0.252	NO
			QPSK	Full Power	50%	50	21350/2560	20.50	15.70	0.086	3.02	0.259	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
LTE 38	Main (ANT 5)	Back Side	QPSK	Full Power	1	50	37850/2580	24.00	19.90	0.189	2.57	0.486	NO
			QPSK	Full Power	50%	25	37850/2580	23.50	19.90	0.211	2.29	0.484	NO
		Front Side	QPSK	Full Power	1	50	37850/2580	24.00	19.90	0.192	2.57	0.492	NO
			QPSK	Full Power	50%	25	37850/2580	23.50	19.90	0.120	2.29	0.275	NO
		Left Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge	QPSK	Full Power	1	50	37850/2580	24.00	19.90	0.208	2.57	0.535	NO
			QPSK	Full Power	50%	25	37850/2580	23.50	19.90	0.180	2.29	0.412	NO
		Top Edge	N/A	Full Power	1	50	37850/2580	24.00	19.90	0.113	2.57	0.291	NO
			N/A	Full Power	50%	25	37850/2580	23.50	19.90	0.119	2.29	0.272	NO
		Bottom Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO

			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div (ANT 3)	Back Side	QPSK	Full Power	1	99	37850/2580	22.50	18.30	0.048	2.63	0.126	NO
			QPSK	Full Power	50%	50	37850/2580	22.00	18.30	0.050	2.34	0.117	NO
		Front Side	QPSK	Full Power	1	99	37850/2580	22.50	18.30	0.032	2.63	0.085	NO
			QPSK	Full Power	50%	50	37850/2580	22.00	18.30	0.027	2.34	0.062	NO
		Left Edge	QPSK	Full Power	1	99	37850/2580	22.50	18.30	0.001	2.63	0.002	NO
			QPSK	Full Power	50%	50	37850/2580	22.00	18.30	0.001	2.34	0.002	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	99	37850/2580	22.50	18.30	0.001	2.63	0.002	NO
			QPSK	Full Power	50%	50	37850/2580	22.00	18.30	0.001	2.34	0.002	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div (ANT 1)	Back Side	QPSK	Full Power	1	0	37850/2580	22.00	22.00	0.240	1.00	0.240	NO
			QPSK	Full Power	50%	0	37850/2580	21.00	21.00	0.208	1.00	0.208	NO
		Front Side	QPSK	Full Power	1	0	37850/2580	22.00	22.00	0.101	1.00	0.101	NO
			QPSK	Full Power	50%	0	37850/2580	21.00	21.00	0.085	1.00	0.085	NO
		Left Edge	QPSK	Full Power	1	0	37850/2580	22.00	22.00	0.003	1.00	0.003	NO
			QPSK	Full Power	50%	0	37850/2580	21.00	21.00	0.003	1.00	0.003	NO
		Right Edge	QPSK	Full Power	1	0	37850/2580	22.00	22.00	0.204	1.00	0.204	NO
			QPSK	Full Power	50%	0	37850/2580	21.00	21.00	0.165	1.00	0.165	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	0	37850/2580	22.00	22.00	0.334	1.00	0.334	NO
			QPSK	Full Power	50%	0	37850/2580	21.00	21.00	0.301	1.00	0.301	NO
LTE 41 PC3	Main (ANT 2)	Back Side	QPSK	Full Power	1	99	38150/2610	20.90	18.70	0.108	1.66	0.179	NO
			QPSK	Full Power	50%	25	38150/2610	19.90	18.70	0.115	1.32	0.152	NO
		Front Side	QPSK	Full Power	1	99	38150/2610	20.90	18.70	0.060	1.66	0.100	NO
			QPSK	Full Power	50%	25	38150/2610	19.90	18.70	0.065	1.32	0.085	NO
		Left Edge	QPSK	Full Power	1	99	38150/2610	20.90	18.70	0.104	1.66	0.172	NO
			QPSK	Full Power	50%	25	38150/2610	19.90	18.70	0.112	1.32	0.148	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	99	38150/2610	20.90	18.70	0.095	1.66	0.158	NO
			QPSK	Full Power	50%	25	38150/2610	19.90	18.70	0.110	1.32	0.145	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Main (ANT 5)	Back Side	QPSK	Full Power	1	99	40185/2549.5	24.00	19.40	0.226	2.88	0.651	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	19.40	0.210	2.29	0.482	NO
		Front Side	QPSK	Full Power	1	99	40185/2549.5	24.00	19.40	0.150	2.88	0.433	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	19.40	0.137	2.29	0.314	NO
		Left Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO

		Right Edge	QPSK	Full Power	1	99	40185/2549.5	24.00	19.40	0.242	2.88	0.698	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	19.40	0.244	2.29	0.560	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	99	40185/2549.5	24.00	19.40	0.001	2.88	0.004	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	19.40	0.001	2.29	0.003	NO
	Div (ANT 3)	Back Side	QPSK	Full Power	1	99	40620/2593	23.00	18.30	0.048	2.95	0.142	NO
			QPSK	Full Power	50%	50	40185/2549.5	22.00	18.30	0.052	2.34	0.122	NO
		Front Side	QPSK	Full Power	1	99	40620/2593	23.00	18.30	0.001	2.95	0.004	NO
			QPSK	Full Power	50%	50	40185/2549.5	22.00	18.30	0.001	2.34	0.003	NO
		Left Edge	QPSK	Full Power	1	99	40620/2593	23.00	18.30	0.001	2.95	0.004	NO
			QPSK	Full Power	50%	50	40185/2549.5	22.00	18.30	0.002	2.34	0.006	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	99	40620/2593	23.00	18.30	0.001	2.95	0.004	NO
			QPSK	Full Power	50%	50	40185/2549.5	22.00	18.30	0.001	2.34	0.003	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div (ANT 1)	Back Side	QPSK	Full Power	1	0	40185/2549.5	21.50	21.50	0.247	1.00	0.247	NO
			QPSK	Full Power	50%	50	39750/2506	20.50	20.50	0.143	1.00	0.143	NO
		Front Side	QPSK	Full Power	1	0	40185/2549.5	21.50	21.50	0.097	1.00	0.097	NO
			QPSK	Full Power	50%	50	39750/2506	20.50	20.50	0.074	1.00	0.074	NO
		Left Edge	QPSK	Full Power	1	0	40185/2549.5	21.50	21.50	0.002	1.00	0.002	NO
			QPSK	Full Power	50%	50	39750/2506	20.50	20.50	0.002	1.00	0.002	NO
		Right Edge	QPSK	Full Power	1	0	40185/2549.5	21.50	21.50	0.180	1.00	0.180	NO
			QPSK	Full Power	50%	50	39750/2506	20.50	20.50	0.129	1.00	0.129	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	0	40185/2549.5	21.50	21.50	0.217	1.00	0.217	NO
			QPSK	Full Power	50%	50	39750/2506	20.50	20.50	0.138	1.00	0.138	NO
	Div (ANT 2)	Back Side	QPSK	Full Power	1	0	41490/2680	20.50	17.70	0.090	1.91	0.172	NO
			QPSK	Full Power	50%	25	41055/2636.5	19.50	17.70	0.096	1.51	0.145	NO
		Front Side	QPSK	Full Power	1	0	41490/2680	20.50	17.70	0.060	1.91	0.115	NO
			QPSK	Full Power	50%	25	41055/2636.5	19.50	17.70	0.055	1.51	0.083	NO
		Left Edge	QPSK	Full Power	1	0	41490/2680	20.50	17.70	0.083	1.91	0.158	NO
			QPSK	Full Power	50%	25	41055/2636.5	19.50	17.70	0.079	1.51	0.119	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	0	41490/2680	20.50	17.70	0.082	1.91	0.156	NO
			QPSK	Full Power	50%	25	41055/2636.5	19.50	17.70	0.078	1.51	0.118	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
LTE 41	Main	Back Side	QPSK	Full Power	1	0	39750/2506	25.80	21.00	0.202	3.02	0.610	NO

SAR Test Report													
Report No.: R2212A1292-S1V6													
PC2	(ANT 5)		QPSK	Full Power	50%	25	40185/2549.5	25.20	21.00	0.195	2.63	0.513	NO
		Front Side	QPSK	Full Power	1	0	39750/2506	25.80	21.00	0.123	3.02	0.372	NO
			QPSK	Full Power	50%	25	40185/2549.5	25.20	21.00	0.118	2.63	0.310	NO
		Left Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge	QPSK	Full Power	1	0	39750/2506	25.80	21.00	0.245	3.02	0.741	NO
			QPSK	Full Power	50%	25	40185/2549.5	25.20	21.00	0.198	2.63	0.520	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	0	39750/2506	25.80	21.00	0.001	3.02	0.004	NO
			QPSK	Full Power	50%	25	40185/2549.5	25.20	21.00	0.001	2.63	0.003	NO
	Div (ANT 3)	Back Side	QPSK	Full Power	1	99	40185/2549.5	24.70	19.90	0.046	3.02	0.139	NO
			QPSK	Full Power	50%	25	40185/2549.5	24.00	19.90	0.045	2.57	0.116	NO
		Front Side	QPSK	Full Power	1	99	40185/2549.5	24.70	19.90	0.001	3.02	0.003	NO
			QPSK	Full Power	50%	25	40185/2549.5	24.00	19.90	0.001	2.57	0.003	NO
		Left Edge	QPSK	Full Power	1	99	40185/2549.5	24.70	19.90	0.001	3.02	0.003	NO
			QPSK	Full Power	50%	25	40185/2549.5	24.00	19.90	0.001	2.57	0.003	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	99	40185/2549.5	24.70	19.90	0.001	3.02	0.003	NO
			QPSK	Full Power	50%	25	40185/2549.5	24.00	19.90	0.001	2.57	0.003	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div (ANT 1)	Back Side	QPSK	Full Power	1	50	40185/2549.5	24.00	24.00	0.225	1.00	0.225	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	23.00	0.222	1.00	0.222	NO
		Front Side	QPSK	Full Power	1	50	40185/2549.5	24.00	24.00	0.118	1.00	0.118	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	23.00	0.090	1.00	0.090	NO
		Left Edge	QPSK	Full Power	1	50	40185/2549.5	24.00	24.00	0.002	1.00	0.002	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	23.00	0.002	1.00	0.002	NO
		Right Edge	QPSK	Full Power	1	50	40185/2549.5	24.00	24.00	0.238	1.00	0.238	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	23.00	0.178	1.00	0.178	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	50	40185/2549.5	24.00	24.00	0.256	1.00	0.256	NO
			QPSK	Full Power	50%	25	40185/2549.5	23.00	23.00	0.232	1.00	0.232	NO
	Div (ANT 2)	Back Side	QPSK	Full Power	1	0	41490/2680	22.90	19.30	0.097	2.29	0.222	NO
			QPSK	Full Power	50%	25	41055/2636.5	21.90	19.30	0.092	1.82	0.167	NO
		Front Side	QPSK	Full Power	1	0	41490/2680	22.90	19.30	0.053	2.29	0.122	NO
			QPSK	Full Power	50%	25	41055/2636.5	21.90	19.30	0.050	1.82	0.091	NO
		Left Edge	QPSK	Full Power	1	0	41490/2680	22.90	19.30	0.083	2.29	0.191	NO
			QPSK	Full Power	50%	25	41055/2636.5	21.90	19.30	0.090	1.82	0.163	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO

		Top Edge	QPSK	Full Power	1	0	41490/2680	22.90	19.30	0.089	2.29	0.203	NO
			QPSK	Full Power	50%	25	41055/2636.5	21.90	19.30	0.074	1.82	0.135	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
LTE 66	Main (ANT 1)	Back Side	QPSK	Full Power	1	0	132322/1745	23.50	22.50	0.490	1.26	0.617	NO
			QPSK	Full Power	50%	50	132322/1745	23.50	22.50	0.486	1.26	0.612	NO
		Front Side	QPSK	Full Power	1	0	132322/1745	23.50	22.50	0.367	1.26	0.462	NO
			QPSK	Full Power	50%	50	132322/1745	23.50	22.50	0.366	1.26	0.461	NO
		Left Edge	QPSK	Full Power	1	0	132322/1745	23.50	22.50	0.125	1.26	0.158	NO
			QPSK	Full Power	50%	50	132322/1745	23.50	22.50	0.122	1.26	0.154	NO
		Right Edge	QPSK	Full Power	1	0	132322/1745	23.50	22.50	0.155	1.26	0.196	NO
			QPSK	Full Power	50%	50	132322/1745	23.50	22.50	0.151	1.26	0.190	NO
		Top Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge	QPSK	Full Power	1	0	132322/1745	23.50	22.50	0.647	1.26	0.814	NO
			QPSK	Full Power	50%	50	132322/1745	23.50	22.50	0.677	1.26	0.853	NO
	Div (ANT 2)	Back Side	QPSK	Full Power	1	0	132322/1745	22.50	17.70	0.135	3.02	0.408	NO
			QPSK	Full Power	50%	50	132072/1720	22.50	17.70	0.151	3.02	0.455	NO
		Front Side	QPSK	Full Power	1	0	132322/1745	22.50	17.70	0.102	3.02	0.308	NO
			QPSK	Full Power	50%	50	132072/1720	22.50	17.70	0.087	3.02	0.263	NO
		Left Edge	QPSK	Full Power	1	0	132322/1745	22.50	17.70	0.061	3.02	0.183	NO
			QPSK	Full Power	50%	50	132072/1720	22.50	17.70	0.054	3.02	0.164	NO
		Right Edge	QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			QPSK	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	QPSK	Full Power	1	0	132322/1745	22.50	17.70	0.321	3.02	0.969	NO
			QPSK	Full Power	50%	50	132072/1720	22.50	17.70	0.277	3.02	0.837	NO
		Bottom Edge	N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			N/A	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO

Band	Antenna	Test Position	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Scaling Factor	Report SAR1g (W/kg)	0mm SAR
n2	Main ANT1	Back Side	SA	DFT-s-OFDM QPSK	Full Power	1	104	372000/1860	23.30	22.80	0.427	1.12	0.479	NO
					Full Power	50%	25	376000/1880	23.30	22.80	0.436	1.12	0.489	NO
		Front Side			Full Power	1	104	372000/1860	23.30	22.80	0.247	1.12	0.278	NO
					Full Power	50%	25	376000/1880	23.30	22.80	0.257	1.12	0.288	NO
		Left Edge			Full Power	1	104	372000/1860	23.30	22.80	0.001	1.12	0.001	NO
					Full Power	50%	25	376000/1880	23.30	22.80	0.001	1.12	0.001	NO
		Right Edge			Full Power	1	104	372000/1860	23.30	22.80	0.126	1.12	0.141	NO
					Full Power	50%	25	376000/1880	23.30	22.80	0.188	1.12	0.211	NO
		Top Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge			Full Power	1	104	372000/1860	23.30	22.80	0.525	1.12	0.589	NO

	Div ANT2				Full Power	50%	25	376000/1880	23.30	22.80	0.518	1.12	0.581	NO
		Back Side			Full Power	1	1	372000/1860	20.70	14.90	0.151	3.80	0.574	NO
		Front Side			Full Power	50%	25	372000/1860	20.70	14.90	0.159	3.80	0.606	NO
					Full Power	1	1	372000/1860	20.70	14.90	0.104	3.80	0.394	NO
		Left Edge			Full Power	50%	25	372000/1860	20.70	14.90	0.109	3.80	0.415	NO
					Full Power	1	1	372000/1860	20.70	14.90	0.001	3.80	0.005	NO
		Right Edge			Full Power	50%	25	372000/1860	20.70	14.90	0.001	3.80	0.005	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	1	1	372000/1860	20.70	14.90	0.269	3.80	1.024	NO
		Bottom Edge			Full Power	50%	25	372000/1860	20.70	14.90	0.279	3.80	1.060	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
n7	Main ANT1	Back Side	SA&NSA	DFT-s-OFDM	Full Power	1	104	502000/2510	20.80	20.30	0.372	1.12	0.418	NO
		Full Power			50%	25	507000/2535	20.80	20.30	0.418	1.12	0.470	NO	
		Front Side			Full Power	1	104	502000/2510	20.80	20.30	0.262	1.12	0.294	NO
					Full Power	50%	25	507000/2535	20.80	20.30	0.271	1.12	0.305	NO
		Left Edge			Full Power	1	104	502000/2510	20.80	20.30	0.001	1.12	0.001	NO
					Full Power	50%	25	507000/2535	20.80	20.30	0.001	1.12	0.001	NO
		Right Edge			Full Power	1	104	502000/2510	20.80	20.30	0.377	1.12	0.423	NO
					Full Power	50%	25	507000/2535	20.80	20.30	0.328	1.12	0.369	NO
		Top Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div ANT2	Bottom Edge			Full Power	1	104	502000/2510	20.80	20.30	0.387	1.12	0.434	NO
		Back Side			Full Power	50%	25	507000/2535	20.80	20.30	0.317	1.12	0.355	NO
					Full Power	1	104	502000/2510	20.30	15.60	0.111	2.95	0.328	NO
		Front Side			Full Power	50%	25	507000/2535	20.30	15.60	0.120	2.95	0.355	NO
					Full Power	1	104	502000/2510	20.30	15.60	0.049	2.95	0.146	NO
		Left Edge			Full Power	50%	25	507000/2535	20.30	15.60	0.052	2.95	0.154	NO
					Full Power	1	104	502000/2510	20.30	15.60	0.135	2.95	0.398	NO
		Right Edge			Full Power	50%	25	507000/2535	20.30	15.60	0.129	2.95	0.380	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	1	104	502000/2510	20.30	15.60	0.093	2.95	0.274	NO
		Bottom Edge			Full Power	50%	25	507000/2535	20.30	15.60	0.089	2.95	0.261	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
n66	Main ANT1	Back Side	SA&NSA	DFT-s-OFDM	Full Power	1	104	354000/1770	23.00	22.40	0.488	1.15	0.560	NO
		Full Power			50%	25	354000/1770	23.00	22.40	0.538	1.15	0.618	NO	
		Front Side			Full Power	1	104	354000/1770	23.00	22.40	0.289	1.15	0.331	NO
					Full Power	50%	25	354000/1770	23.00	22.40	0.315	1.15	0.362	NO
		Left Edge			Full Power	1	104	354000/1770	23.00	22.40	0.001	1.15	0.001	NO
					Full Power	50%	25	354000/1770	23.00	22.40	0.001	1.15	0.001	NO

		Right Edge			Full Power	1	104	354000/1770	23.00	22.40	0.195	1.15	0.224	NO
		Full Power			50%	25	354000/1770	23.00	22.40	0.211	1.15	0.242	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			1	104	354000/1770	23.00	22.40	0.620	1.15	0.712	NO	
		Full Power			50%	25	354000/1770	23.00	22.40	0.667	1.15	0.766	NO	
	Div ANT2	Back Side			Full Power	1	104	344000/1720	22.30	17.50	0.121	3.02	0.366	NO
		Full Power			50%	25	344000/1720	22.30	17.50	0.120	3.02	0.362	NO	
		Front Side			Full Power	1	104	344000/1720	22.30	17.50	0.094	3.02	0.285	NO
		Full Power			50%	25	344000/1720	22.30	17.50	0.086	3.02	0.261	NO	
		Left Edge			Full Power	1	104	344000/1720	22.30	17.50	0.056	3.02	0.170	NO
		Full Power			50%	25	344000/1720	22.30	17.50	0.056	3.02	0.170	NO	
		Right Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge			Full Power	1	104	344000/1720	22.30	17.50	0.242	3.02	0.732	NO
		Full Power			50%	25	344000/1720	22.30	17.50	0.170	3.02	0.513	NO	
		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
n38	Main ANT5	Back Side	SA&NSA	DFT-s-OFDM QPSK	Full Power	1	1	516000/2580	21.40	16.70	0.146	2.95	0.432	NO
		Full Power			50%	12	519000/2595	21.40	16.70	0.148	2.95	0.435	NO	
		Front Side			Full Power	1	1	516000/2580	21.40	16.70	0.090	2.95	0.265	NO
		Full Power			50%	12	519000/2595	21.40	16.70	0.086	2.95	0.255	NO	
		Left Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge			Full Power	1	1	516000/2580	21.40	16.70	0.156	2.95	0.460	NO
		Full Power			50%	12	519000/2595	21.40	16.70	0.140	2.95	0.413	NO	
		Top Edge			Full Power	1	1	516000/2580	21.40	16.70	0.063	2.95	0.185	NO
		Full Power			50%	12	519000/2595	21.40	16.70	0.089	2.95	0.262	NO	
	Bottom Edge	Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
	Full Power	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
	Div ANT3	Back Side			Full Power	1	49	522000/2610	20.20	15.40	0.056	3.02	0.168	NO
		Full Power			50%	12	516000/2580	20.20	15.40	0.056	3.02	0.169	NO	
		Front Side			Full Power	1	49	522000/2610	20.20	15.40	0.001	3.02	0.004	NO
		Full Power			50%	12	516000/2580	20.20	15.40	0.001	3.02	0.004	NO	
		Left Edge			Full Power	1	49	522000/2610	20.20	15.40	0.001	3.02	0.004	NO
		Full Power			50%	12	516000/2580	20.20	15.40	0.001	3.02	0.004	NO	
		Right Edge			Full Power	1	49	522000/2610	20.20	15.40	0.001	3.02	0.004	NO
		Full Power			50%	12	516000/2580	20.20	15.40	0.001	3.02	0.004	NO	
		Top Edge			Full Power	1	49	522000/2610	20.20	15.40	0.001	3.02	0.004	NO
		Full Power			50%	12	516000/2580	20.20	15.40	0.001	3.02	0.004	NO	
		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div	Back Side			Full Power	1	1	516000/2580	20.90	20.40	0.452	1.12	0.507	NO

	ANT1				Full Power	50%	12	522000/2610	20.90	20.40	0.496	1.12	0.557	NO
		Front Side			Full Power	1	1	516000/2580	20.90	20.40	0.173	1.12	0.194	NO
					Full Power	50%	12	522000/2610	20.90	20.40	0.176	1.12	0.198	NO
		Left Edge			Full Power	1	1	516000/2580	20.90	20.40	0.001	1.12	0.001	NO
					Full Power	50%	12	522000/2610	20.90	20.40	0.001	1.12	0.001	NO
		Right Edge			Full Power	1	1	516000/2580	20.90	20.40	0.204	1.12	0.228	NO
					Full Power	50%	12	522000/2610	20.90	20.40	0.185	1.12	0.207	NO
		Top Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Bottom Edge			Full Power	1	1	516000/2580	20.90	20.40	0.273	1.12	0.306	NO
	Div ANT2				Full Power	50%	12	522000/2610	20.90	20.40	0.355	1.12	0.398	NO
		Back Side			Full Power	1	1	516000/2580	19.70	15.00	0.131	2.95	0.385	NO
					Full Power	50%	12	519000/2595	19.70	15.00	0.128	2.95	0.377	NO
		Front Side			Full Power	1	1	516000/2580	19.70	15.00	0.054	2.95	0.158	NO
					Full Power	50%	12	519000/2595	19.70	15.00	0.057	2.95	0.169	NO
		Left Edge			Full Power	1	1	516000/2580	19.70	15.00	0.127	2.95	0.374	NO
					Full Power	50%	12	519000/2595	19.70	15.00	0.109	2.95	0.322	NO
		Right Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge			Full Power	1	1	516000/2580	19.70	15.00	0.093	2.95	0.274	NO
					Full Power	50%	12	519000/2595	19.70	15.00	0.086	2.95	0.255	NO
		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
n41 PC2	Main ANT5	Back Side	SA	DFT-s-OFDM QPSK	Full Power	1	271	509202/2546.01	21.40	16.70	0.146	2.95	0.430	NO
					Full Power	50%	67	518598/2592.99	21.40	16.70	0.146	2.95	0.432	NO
		Front Side			Full Power	1	271	509202/2546.01	21.40	16.70	0.084	2.95	0.247	NO
					Full Power	50%	67	518598/2592.99	21.40	16.70	0.085	2.95	0.251	NO
		Left Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge			Full Power	1	271	509202/2546.01	21.40	16.70	0.140	2.95	0.414	NO
					Full Power	50%	67	518598/2592.99	21.40	16.70	0.146	2.95	0.432	NO
		Top Edge			Full Power	1	271	509202/2546.01	21.40	16.70	0.098	2.95	0.291	NO
	Div ANT3				Full Power	50%	67	518598/2592.99	21.40	16.70	0.089	2.95	0.263	NO
		Back Side			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Front Side			Full Power	1	271	528000/2640	20.40	15.50	0.029	3.09	0.089	NO
					Full Power	50%	67	528000/2640	20.40	15.50	0.019	3.09	0.059	NO
		Left Edge			Full Power	1	271	528000/2640	20.40	15.50	0.001	3.09	0.004	NO
					Full Power	50%	67	528000/2640	20.40	15.50	0.001	3.09	0.004	NO
		Right Edge			Full Power	1	271	528000/2640	20.40	15.50	0.001	3.09	0.004	NO
					Full Power	50%	67	528000/2640	20.40	15.50	0.001	3.09	0.004	NO

		Top Edge			Full Power	1	271	528000/2640	20.40	15.50	0.001	3.09	0.004	NO	
		Full Power			50%	67	528000/2640	20.40	15.50	0.001	3.09	0.004	NO		
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO		
		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
	Div ANT1	Back Side			Full Power	1	1	528000/2640	21.00	20.50	0.431	1.12	0.483	NO	
		Full Power			50%	67	528000/2640	21.00	20.50	0.399	1.12	0.447	NO		
		Front Side			Full Power	1	1	528000/2640	21.00	20.50	0.268	1.12	0.301	NO	
		Full Power			50%	67	528000/2640	21.00	20.50	0.188	1.12	0.211	NO		
		Left Edge			Full Power	1	1	528000/2640	21.00	20.50	0.001	1.12	0.001	NO	
		Full Power			50%	67	528000/2640	21.00	20.50	0.001	1.12	0.001	NO		
		Right Edge			Full Power	1	1	528000/2640	21.00	20.50	0.281	1.12	0.315	NO	
		Full Power			50%	67	528000/2640	21.00	20.50	0.196	1.12	0.219	NO		
		Top Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO		
		Bottom Edge			Full Power	1	1	528000/2640	21.00	20.50	0.285	1.12	0.320	NO	
		Full Power			50%	67	528000/2640	21.00	20.50	0.314	1.12	0.352	NO		
	Div ANT2	Back Side			Full Power	1	271	518598/2592.99	19.60	14.80	0.112	3.02	0.337	NO	
		Full Power			50%	67	518598/2592.99	19.60	14.80	0.104	3.02	0.315	NO		
		Front Side			Full Power	1	271	518598/2592.99	19.60	14.80	0.001	3.02	0.004	NO	
		Full Power			50%	67	518598/2592.99	19.60	14.80	0.001	3.02	0.004	NO		
		Left Edge			Full Power	1	271	518598/2592.99	19.60	14.80	0.090	3.02	0.270	NO	
		Full Power			50%	67	518598/2592.99	19.60	14.80	0.101	3.02	0.306	NO		
		Right Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO		
		Top Edge			Full Power	1	271	518598/2592.99	19.60	14.80	0.098	3.02	0.295	NO	
		Full Power			50%	67	518598/2592.99	19.60	14.80	0.074	3.02	0.224	NO		
		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO		
	n41 PC3	Main ANT5			Back Side	Full Power	1	1	528000/2640	21.40	16.70	0.128	2.95	0.378	NO
					Full Power	50%	67	518598/2592.99	21.40	16.70	0.117	2.95	0.345	NO	
					Front Side	Full Power	1	1	528000/2640	21.40	16.70	0.081	2.95	0.239	NO
					Full Power	50%	67	518598/2592.99	21.40	16.70	0.075	2.95	0.221	NO	
Left Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO			
Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO				
Right Edge			Full Power	1	1	528000/2640	21.40	16.70	0.131	2.95	0.387	NO			
Full Power			50%	67	518598/2592.99	21.40	16.70	0.116	2.95	0.342	NO				
Top Edge			Full Power	1	1	528000/2640	21.40	16.70	0.078	2.95	0.230	NO			
Full Power			50%	67	518598/2592.99	21.40	16.70	0.082	2.95	0.242	NO				
Bottom Edge		Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO				
Full Power		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO					
Div ANT3		Back Side	Full Power	1	271	518598/2592.99	20.40	15.50	0.018	3.09	0.056	NO			
		Full Power	50%	67	528000/2640	20.40	15.50	0.015	3.09	0.046	NO				
		Front Side	Full Power	1	271	518598/2592.99	20.40	15.50	0.001	3.09	0.003	NO			

		Left Edge	Full Power	50%	67	528000/2640	20.40	15.50	0.001	3.09	0.003	NO
			Full Power	1	271	518598/2592.99	20.40	15.50	0.001	3.09	0.003	NO
			Full Power	50%	67	528000/2640	20.40	15.50	0.001	3.09	0.003	NO
			Full Power	1	271	518598/2592.99	20.40	15.50	0.001	3.09	0.003	NO
			Full Power	50%	67	528000/2640	20.40	15.50	0.001	3.09	0.003	NO
			Full Power	1	271	518598/2592.99	20.40	15.50	0.001	3.09	0.003	NO
			Full Power	50%	67	528000/2640	20.40	15.50	0.001	3.09	0.003	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	1	1	509202/2546.01	21.00	20.50	0.345	1.12	0.387	NO
	Div ANT1	Back Side	Full Power	50%	67	509202/2546.01	21.00	20.50	0.303	1.12	0.340	NO
			Full Power	1	1	509202/2546.01	21.00	20.50	0.246	1.12	0.276	NO
			Full Power	50%	67	509202/2546.01	21.00	20.50	0.205	1.12	0.230	NO
			Full Power	1	1	509202/2546.01	21.00	20.50	0.001	1.12	0.001	NO
			Full Power	50%	67	509202/2546.01	21.00	20.50	0.001	1.12	0.001	NO
			Full Power	1	1	509202/2546.01	21.00	20.50	0.283	1.12	0.318	NO
			Full Power	50%	67	509202/2546.01	21.00	20.50	0.249	1.12	0.279	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	1	1	509202/2546.01	21.00	20.50	0.338	1.12	0.379	NO
	Div ANT2	Back Side	Full Power	50%	67	509202/2546.01	21.00	20.50	0.264	1.12	0.296	NO
			Full Power	1	271	518598/2592.99	19.60	14.80	0.076	3.02	0.230	NO
			Full Power	50%	67	528000/2640	19.60	14.80	0.071	3.02	0.214	NO
			Full Power	1	271	518598/2592.99	19.60	14.80	0.001	3.02	0.003	NO
			Full Power	50%	67	528000/2640	19.60	14.80	0.001	3.02	0.003	NO
			Full Power	1	271	518598/2592.99	19.60	14.80	0.066	3.02	0.199	NO
			Full Power	50%	67	528000/2640	19.60	14.80	0.065	3.02	0.196	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	1	271	518598/2592.99	19.60	14.80	0.058	3.02	0.175	NO
n78 PC2	Main ANT5	Back Side	Full Power	50%	67	528000/2640	19.60	14.80	0.056	3.02	0.169	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Front Side	Full Power	1	271	633332/3500	21.90	16.30	0.169	3.63	0.612	NO
			Full Power	50%	67	633332/3500	21.90	16.30	0.171	3.63	0.621	NO
			Full Power	1	271	633332/3500	21.90	16.30	0.144	3.63	0.523	NO
			Full Power	50%	67	633332/3500	21.90	16.30	0.166	3.63	0.601	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	1	271	633332/3500	21.90	16.30	0.130	3.63	0.473	NO
			Full Power	50%	67	633332/3500	21.90	16.30	0.146	3.63	0.530	NO
			Full Power	1	271	633332/3500	21.90	16.30	0.147	3.63	0.533	NO
			Full Power	50%	67	633332/3500	21.90	16.30	0.205	3.63	0.744	NO

		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div ANT4	Back Side			Full Power	1	1	633332/3500	21.10	16.40	0.106	2.95	0.313	NO
					Full Power	50%	67	633332/3500	21.10	16.40	0.131	2.95	0.386	NO
		Front Side			Full Power	1	1	633332/3500	21.10	16.40	0.042	2.95	0.125	NO
					Full Power	50%	67	633332/3500	21.10	16.40	0.034	2.95	0.100	NO
		Left Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge			Full Power	1	1	633332/3500	21.10	16.40	0.049	2.95	0.145	NO
					Full Power	50%	67	633332/3500	21.10	16.40	0.033	2.95	0.096	NO
		Top Edge			Full Power	1	1	633332/3500	21.10	16.40	0.033	2.95	0.098	NO
					Full Power	50%	67	633332/3500	21.10	16.40	0.034	2.95	0.100	NO
		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div ANT2	Back Side			Full Power	1	271	633332/3500	17.80	13.10	0.064	2.95	0.189	NO
					Full Power	50%	67	633332/3500	17.80	13.10	0.083	2.95	0.245	NO
		Front Side			Full Power	1	271	633332/3500	17.80	13.10	0.034	2.95	0.102	NO
					Full Power	50%	67	633332/3500	17.80	13.10	0.031	2.95	0.091	NO
		Left Edge			Full Power	1	271	633332/3500	17.80	13.10	0.071	2.95	0.210	NO
					Full Power	50%	67	633332/3500	17.80	13.10	0.088	2.95	0.260	NO
		Right Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge			Full Power	1	271	633332/3500	17.80	13.10	0.026	2.95	0.077	NO
					Full Power	50%	67	633332/3500	17.80	13.10	0.032	2.95	0.095	NO
		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div ANT3	Back Side			Full Power	1	271	633332/3500	19.40	14.60	0.061	3.02	0.185	NO
					Full Power	50%	67	633332/3500	19.40	14.60	0.051	3.02	0.153	NO
		Front Side			Full Power	1	271	633332/3500	19.40	14.60	0.037	3.02	0.112	NO
					Full Power	50%	67	633332/3500	19.40	14.60	0.032	3.02	0.096	NO
		Left Edge			Full Power	1	271	633332/3500	19.40	14.60	0.052	3.02	0.158	NO
					Full Power	50%	67	633332/3500	19.40	14.60	0.059	3.02	0.177	NO
		Right Edge			Full Power	1	271	633332/3500	19.40	14.60	0.037	3.02	0.112	NO
					Full Power	50%	67	633332/3500	19.40	14.60	0.025	3.02	0.076	NO
		Top Edge			Full Power	1	271	633332/3500	19.40	14.60	0.029	3.02	0.089	NO
					Full Power	50%	67	633332/3500	19.40	14.60	0.036	3.02	0.108	NO
Bottom Edge		Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO			
		Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO			
n78 PC3	Main ANT5	Back Side	NSA	DFT-s-OFDM QPSK	Full Power	1	271	633332/3500	21.90	16.30	0.165	3.63	0.601	NO
					Full Power	50%	67	633332/3500	21.90	16.30	0.181	3.63	0.659	NO
		Front Side			Full Power	1	271	633332/3500	21.90	16.30	0.150	3.63	0.545	NO
					Full Power	50%	67	633332/3500	21.90	16.30	0.169	3.63	0.612	NO
		Left Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO

			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge	Full Power	1	271	633332/3500	21.90	16.30	0.121	3.63	0.439	NO
			Full Power	50%	67	633332/3500	21.90	16.30	0.147	3.63	0.534	NO
		Top Edge	Full Power	1	271	633332/3500	21.90	16.30	0.160	3.63	0.580	NO
			Full Power	50%	67	633332/3500	21.90	16.30	0.184	3.63	0.669	NO
		Bottom Edge	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div ANT4		Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Back Side	Full Power	1	1	633332/3500	21.10	16.40	0.114	2.95	0.338	NO
			Full Power	50%	67	633332/3500	21.10	16.40	0.135	2.95	0.397	NO
		Front Side	Full Power	1	1	633332/3500	21.10	16.40	0.043	2.95	0.126	NO
			Full Power	50%	67	633332/3500	21.10	16.40	0.032	2.95	0.095	NO
		Left Edge	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge	Full Power	1	1	633332/3500	21.10	16.40	0.051	2.95	0.149	NO
			Full Power	50%	67	633332/3500	21.10	16.40	0.052	2.95	0.155	NO
		Top Edge	Full Power	1	1	633332/3500	21.10	16.40	0.041	2.95	0.122	NO
			Full Power	50%	67	633332/3500	21.10	16.40	0.034	2.95	0.099	NO
		Bottom Edge	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div ANT2		Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Back Side	Full Power	1	271	633332/3500	17.80	13.10	0.068	2.95	0.200	NO
			Full Power	50%	67	633332/3500	17.80	13.10	0.077	2.95	0.227	NO
		Front Side	Full Power	1	271	633332/3500	17.80	13.10	0.029	2.95	0.086	NO
			Full Power	50%	67	633332/3500	17.80	13.10	0.040	2.95	0.117	NO
		Left Edge	Full Power	1	271	633332/3500	17.80	13.10	0.082	2.95	0.242	NO
			Full Power	50%	67	633332/3500	17.80	13.10	0.084	2.95	0.249	NO
		Right Edge	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Top Edge	Full Power	1	271	633332/3500	17.80	13.10	0.027	2.95	0.079	NO
			Full Power	50%	67	633332/3500	17.80	13.10	0.031	2.95	0.091	NO
		Bottom Edge	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
	Div ANT3		Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Back Side	Full Power	1	271	633332/3500	20.90	16.10	0.058	3.02	0.176	NO
			Full Power	50%	67	633332/3500	20.90	16.10	0.070	3.02	0.213	NO
		Front Side	Full Power	1	271	633332/3500	20.90	16.10	0.041	3.02	0.124	NO
			Full Power	50%	67	633332/3500	20.90	16.10	0.027	3.02	0.083	NO
		Left Edge	Full Power	1	271	633332/3500	20.90	16.10	0.070	3.02	0.210	NO
			Full Power	50%	67	633332/3500	20.90	16.10	0.039	3.02	0.118	NO
		Right Edge	Full Power	1	271	633332/3500	20.90	16.10	0.037	3.02	0.112	NO
			Full Power	50%	67	633332/3500	20.90	16.10	0.043	3.02	0.130	NO
		Top Edge	Full Power	1	271	633332/3500	20.90	16.10	0.038	3.02	0.116	NO
			Full Power	50%	67	633332/3500	20.90	16.10	0.043	3.02	0.130	NO
		Bottom Edge	Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO

n78 PC3	Main ANT5	Back Side	NSA	DFT-s-OFDM QPSK	Full Power	1	271	633332/3500	21.90	16.30	0.165	3.63	0.601	NO
		Full Power			50%	67	633332/3500	21.90	16.30	0.181	3.63	0.659	NO	
		Full Power			1	271	633332/3500	21.90	16.30	0.150	3.63	0.545	NO	
		Full Power			50%	67	633332/3500	21.90	16.30	0.169	3.63	0.612	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			1	271	633332/3500	21.90	16.30	0.121	3.63	0.439	NO	
		Full Power			50%	67	633332/3500	21.90	16.30	0.147	3.63	0.534	NO	
		Full Power			1	271	633332/3500	21.90	16.30	0.160	3.63	0.580	NO	
		Full Power			50%	67	633332/3500	21.90	16.30	0.184	3.63	0.669	NO	
	Full Power	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO		
	Full Power	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO		
	Div ANT4	Back Side			Full Power	1	1	633332/3500	21.10	16.40	0.114	2.95	0.338	NO
		Full Power			50%	67	633332/3500	21.10	16.40	0.135	2.95	0.397	NO	
		Full Power			1	1	633332/3500	21.10	16.40	0.043	2.95	0.126	NO	
		Full Power			50%	67	633332/3500	21.10	16.40	0.032	2.95	0.095	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO	
		Full Power			1	1	633332/3500	21.10	16.40	0.051	2.95	0.149	NO	
		Full Power			50%	67	633332/3500	21.10	16.40	0.052	2.95	0.155	NO	
		Full Power			1	1	633332/3500	21.10	16.40	0.041	2.95	0.122	NO	
		Full Power			50%	67	633332/3500	21.10	16.40	0.034	2.95	0.099	NO	
	Full Power	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO		
	Full Power	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO		
	Div ANT2	Back Side			Full Power	1	271	633332/3500	17.80	13.10	0.068	2.95	0.200	NO
		Full Power			50%	67	633332/3500	17.80	13.10	0.077	2.95	0.227	NO	
		Full Power			1	271	633332/3500	17.80	13.10	0.029	2.95	0.086	NO	
		Full Power			50%	67	633332/3500	17.80	13.10	0.040	2.95	0.117	NO	
		Full Power			1	271	633332/3500	17.80	13.10	0.082	2.95	0.242	NO	
		Full Power			50%	67	633332/3500	17.80	13.10	0.084	2.95	0.249	NO	
Full Power		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO				
Full Power		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO				
Full Power		1	271	633332/3500	17.80	13.10	0.027	2.95	0.079	NO				
Full Power		50%	67	633332/3500	17.80	13.10	0.031	2.95	0.091	NO				
Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO					
Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO					
Div ANT3	Back Side	Full Power	1	271	633332/3500	20.90	16.10	0.058	3.02	0.176	NO			
	Full Power	50%	67	633332/3500	20.90	16.10	0.070	3.02	0.213	NO				
	Full Power	1	271	633332/3500	20.90	16.10	0.041	3.02	0.124	NO				
	Full Power	50%	67	633332/3500	20.90	16.10	0.027	3.02	0.083	NO				
	Full Power	1	271	633332/3500	20.90	16.10	0.070	3.02	0.210	NO				
	Full Power	50%	67	633332/3500	20.90	16.10	0.039	3.02	0.118	NO				
	Right Edge	Full Power	1	271	633332/3500	20.90	16.10	0.037	3.02	0.112	NO			

					Full Power	50%	67	633332/3500	20.90	16.10	0.043	3.02	0.130	NO
		Top Edge			Full Power	1	271	633332/3500	20.90	16.10	0.038	3.02	0.116	NO
					Full Power	50%	67	633332/3500	20.90	16.10	0.043	3.02	0.130	NO
		Bottom Edge			Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
					Full Power	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO

Band	Antenna	Test Position	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Scaling Factor	Report SAR1g (W/kg)	Imm SAR
2.4G	ANT7	Back Side	802.11b	98.0%	Full Power	1/2412	19.00	18.00	0.479	1.28	0.615	NO
		Front Side	802.11b	98.0%	Full Power	1/2412	19.00	18.00	0.178	1.28	0.229	NO
		Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge	802.11b	98.0%	Full Power	1/2412	19.00	18.00	0.373	1.28	0.480	NO
		Top Edge	802.11b	98.0%	Full Power	1/2412	19.00	18.00	0.087	1.28	0.112	NO
		Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
U-NII-1	ANT8	Back Side	802.11nHT40	100.0%	Full Power	46/5230	18.00	17.00	0.221	1.26	0.278	NO
		Front Side	802.11nHT40	100.0%	Full Power	46/5230	18.00	17.00	0.079	1.26	0.099	NO
		Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge	802.11nHT40	100.0%	Full Power	46/5230	18.00	17.00	0.250	1.26	0.314	NO
		Top Edge	802.11nHT40	100.0%	Full Power	46/5230	18.00	17.00	0.144	1.26	0.181	NO
		Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
U-NII-3	ANT8	Back Side	802.11nHT40	100.0%	Full Power	151/5755	18.00	17.00	0.492	1.26	0.619	NO
		Front Side	802.11nHT40	100.0%	Full Power	151/5755	18.00	17.00	0.193	1.26	0.243	NO
		Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO
		Right Edge	802.11nHT40	100.0%	Full Power	151/5755	18.00	17.00	0.606	1.26	0.763	NO
		Top Edge	802.11nHT40	100.0%	Full Power	151/5755	18.00	17.00	0.247	1.26	0.311	NO
		Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NO

Product-specific 10g SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No.
LTE 2	Div (ANT 2)	Top Edge	0	QPSK	Receiver off	1	50	18700/1860	21.10	19.48	1.710	-0.111	1.45	2.483	/
			0	QPSK	Receiver off	1	99	18900/1880	21.10	19.48	1.950	0.016	1.45	2.832	/
			0	QPSK	Receiver off	1	0	19100/1900	21.10	19.35	1.870	0.020	1.50	2.798	/
			0	QPSK	Receiver off	50%	25	18700/1860	21.10	19.47	1.820	-0.113	1.46	2.649	/
			0	QPSK	Receiver off	50%	25	18900/1880	21.10	19.43	1.870	0.038	1.47	2.747	/
			0	QPSK	Receiver off	50%	0	19100/1900	21.10	19.38	1.910	0.150	1.49	2.838	/
			0	QPSK	Receiver off	100.0%	0	19100/1900	21.10	19.50	1.920	0.020	1.45	2.775	/
			0	QPSK	Receiver off	100.0%	0	18700/1860	21.10	19.47	1.920	0.019	1.46	2.794	/
			0	QPSK	Receiver off	100.0%	0	18900/1880	21.10	19.41	1.900	0.027	1.48	2.804	/
		Top Edge SIM2	0	QPSK	Receiver off	50%	0	19100/1900	21.10	19.38	1.990	0.090	1.49	2.957	/
		Top Edge Battery 2	0	QPSK	Receiver off	50%	0	19100/1900	21.10	19.38	2.010	-0.100	1.49	2.987	122
		Top Edge Battery 3	0	QPSK	Receiver off	50%	0	19100/1900	21.10	19.38	1.760	-0.146	1.49	2.615	/
		Top Edge Battery 4	0	QPSK	Receiver off	50%	0	19100/1900	21.10	19.38	1.940	0.030	1.49	2.883	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No.
U-NII-2A	ANT8	Back Side	0	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.530	-0.020	1.35	0.717	/
		Front Side	0	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.190	0.031	1.35	0.257	/
		Left Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.617	0.180	1.35	0.834	/
		Top Edge	0	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.178	0.025	1.35	0.241	/
		Bottom Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge Battery 2	0	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.574	0.017	1.35	0.776	/
		Right Edge Battery 3	0	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.532	0.110	1.35	0.719	/
		Right Edge Battery 4	0	802.11nHT40	100.0%	Receiver off	54/5270	18.00	16.69	0.458	0.020	1.35	0.619	/
U-NII-2C	ANT8	Back Side	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	1.350	0.024	1.21	1.634	/
		Front Side	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	0.509	0.060	1.21	0.616	/
		Left Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	1.570	0.110	1.21	1.901	123
		Top Edge	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	0.278	0.024	1.21	0.337	/
		Bottom Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

		Right Edge Battery 2	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	1.410	0.012	1.21	1.707	/
		Right Edge Battery 3	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	1.060	0.180	1.21	1.283	/
		Right Edge Battery 4	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.17	1.030	0.050	1.21	1.247	/

Smart Transmit feature for RF Exposure compliance

P_{limit} and P_{max} measurement results

The measured P_{limit} for all the selected radio configurations are listed in below Table P_{max} was also measured for radio configurations selected for testing time varying Tx power transmission scenarios.

Measured P_{limit} and P_{max} of selected radio configurations

Band	Test scenario	Antenna	BW	Test Position	Dist. (mm)	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	P _{limit} EFS setting (dBm)	Target P _{max} (dBm)	Measured P _{limit} (dBm)	Measured P _{max} (dBm)	Plot No.
GSM 1900	time-varying Tx power transmission	ANT2	-	Top Edge	10	GPRS 3TX Slots	Hotspot on	-	-	661/1880	22.60	28.50	13.80	19.37	1
WCDMA IV		ANT2	-	Top Edge	10	RMC	Hotspot on	-	-	1413/1732.6	15.10	22.50	16.00	23.36	2
WCDMA II		ANT2	-	Top Edge	10	RMC	Hotspot on	-	-	9400/1880	12.60	22.50	13.27	23.16	3
LTE 2		ANT2	20MM	Top Edge	10	QPSK	Hotspot on	1	0	18900/1880	14.60	22.00	14.95	21.35	4
LTE 41 PC3		ANT5	20MM	Right Edge	10	QPSK	Hotspot on	50%	25	40185/2549.5	17.90	22.50	17.09	22.48	5
n38		ANT5	20MM	Right cheek	0	DFT-s-OFDM QPSK	Receiver on	50%	12	516000/2580	17.50	20.50	14.65	14.70	6
n78 PC3		ANT5	100MM	Left cheek	0	DFT-s-OFDM QPSK	Receiver on	50%	67	633332/3500	15.80	22.00	15.86	16.60	7
		ANT5	100MM	Left cheek	0	DFT-s-OFDM QPSK	WWAN+WLAN Receiver on	50%	67	633332/3500	14.80	22.00	14.65	16.60	8
LTE 41 PC3	Call Drop	ANT5	20MM	Right Edge	10	QPSK	Hotspot on	50%	25	40185/2549.5	17.90	22.50	17.09	22.48	9
WCDMA IV	Tech/band switch	ANT2	-	Top Edge	10	RMC	Hotspot on	-	-	1413/1732.6	15.10	22.50	16.00	23.36	10
LTE 2		ANT2	20MM	Top Edge	10	QPSK	Hotspot on	1	0	18900/1880	14.60	22.00	14.95	21.35	
WCDMA IV	Change Power Reduction	ANT2	-	Back Side	15	RMC	Receiver off	-	-	1413/1732.6	19.90	23.50	20.78	24.17	11
		ANT2	-	Back Side	10	RMC	Hotspot on	-	-	1413/1732.6	15.10	23.50	16.44	24.17	
LTE 66	SARvsSAR	ANT2	20MM	Right cheek	0	QPSK	Receiver on	1	0	132322/1745	18.70	21.00	18.29	20.66	12
n78 PC3		ANT5	20MM	Right cheek	0	DFT-s-OFDM QPSK	Receiver on	50%	67	633332/3500	15.80	22.00	14.72	16.65	

SAR Design Target and Uncertainty

SAR design target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer. To account for total uncertainty, SAR design target should be determined as:

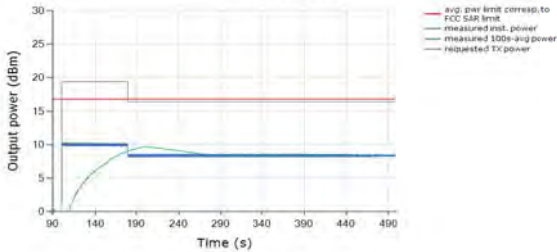
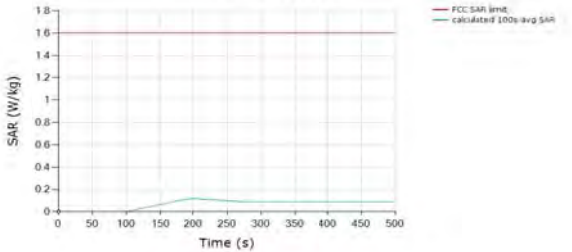
$$SAR\_design\_target < SAR_{regulatory\_limit} \times 10^{\frac{-total\ uncertainty}{1}}$$

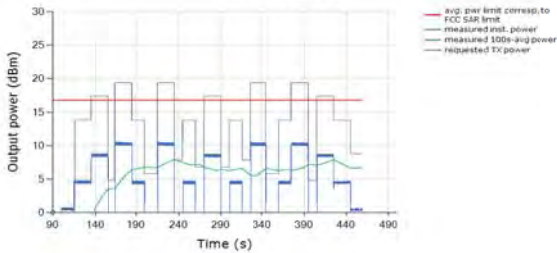
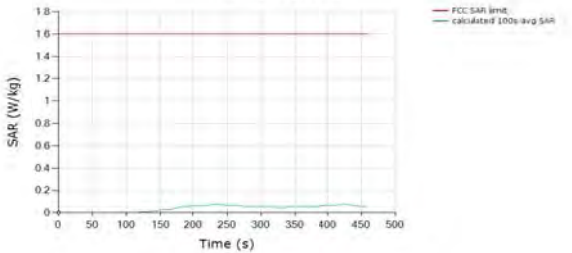
Exposure conditions	SAR design target W/kg(1g)	Remark
Head	1.10	/
Body	1.10	/

	Uncertainty dB 2/3/4G (except B7/B38/B41)/N5	Uncertainty dB B7/B38/B41	Uncertainty dB NR (except N5)
TxAGC Uncertainty	1.00	1.20	1.50
Device to device variation	0.50	0.50	0.50
Total uncertainty	1.10	1.30	1.55

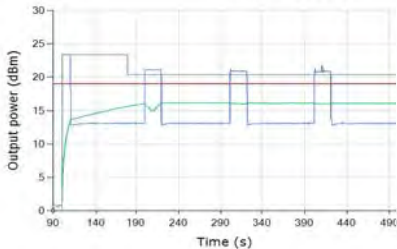
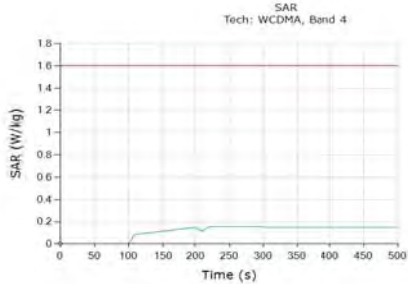
Note: the device uncertainty of P_{max} is provided by manufacturer

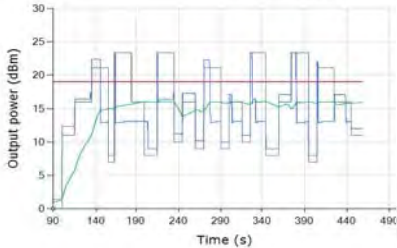
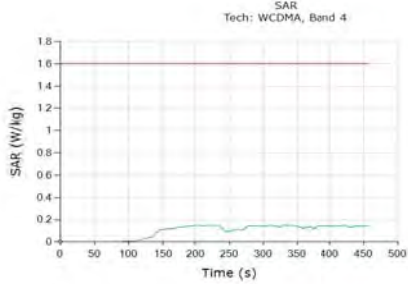
Plot No. 1 GSM 1900

Test sequence1:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.118(W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

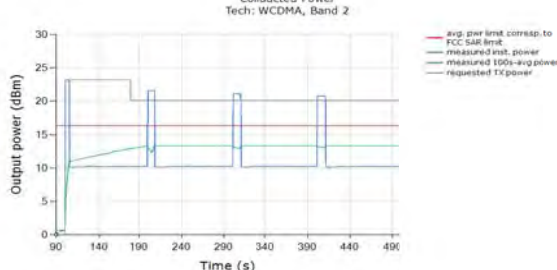
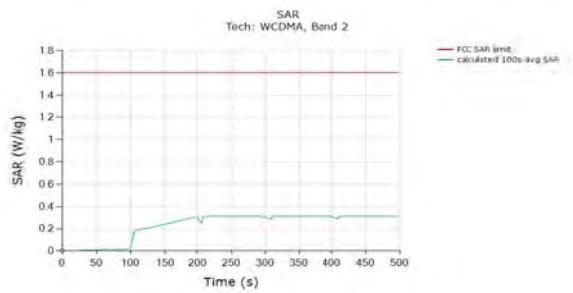
Test sequence2:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.078 (W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR.		

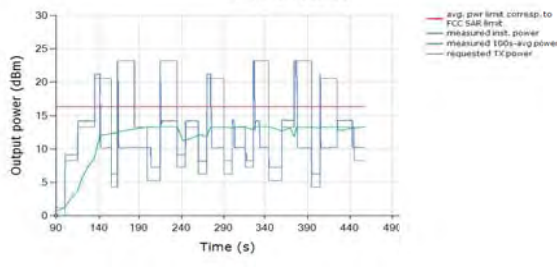
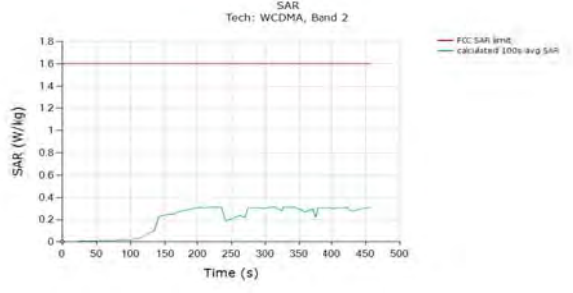
Plot No. 2 WCDMA IV

Test sequence1:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.153 (W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

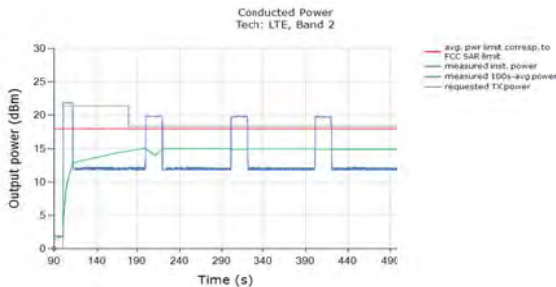
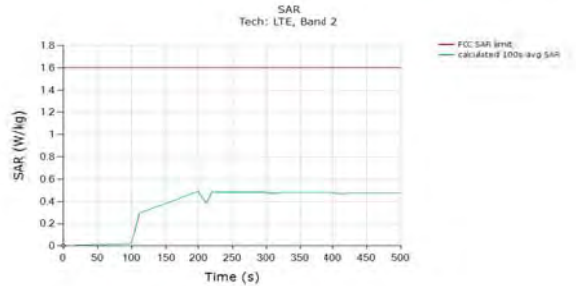
Test sequence2:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.149 (W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

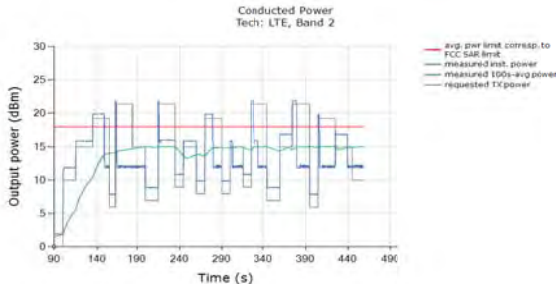
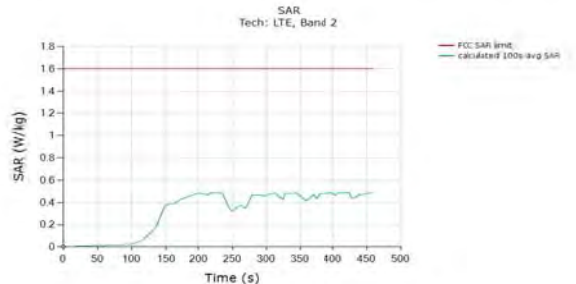
Plot No. 3 WCDMA II

Test sequence1:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.311 (W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

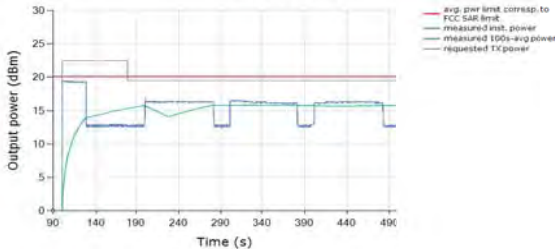
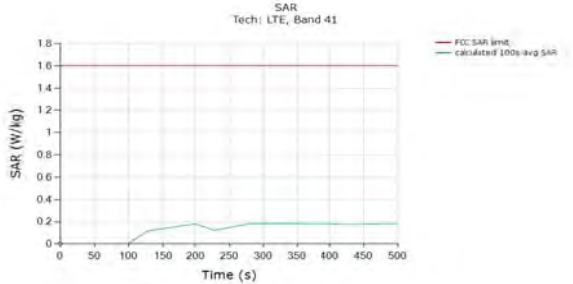
Test sequence2:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.314 (W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

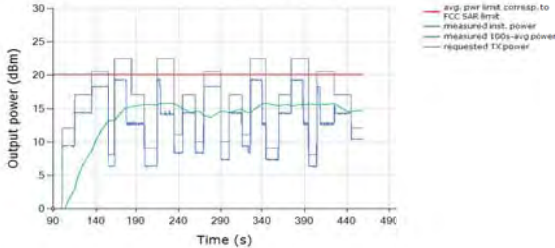
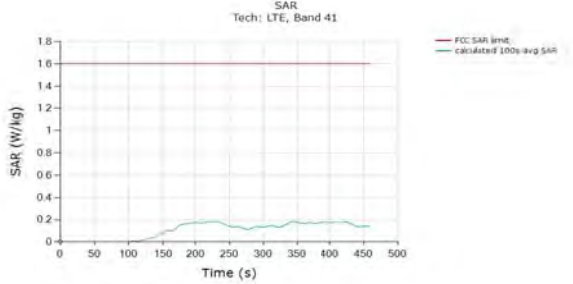
Plot No. 4 LTE Band 2

Test sequence1:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.490 (W/kg)
Conducted Power Tech: LTE, Band 2 	SAR Tech: LTE, Band 2 	
Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit		
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

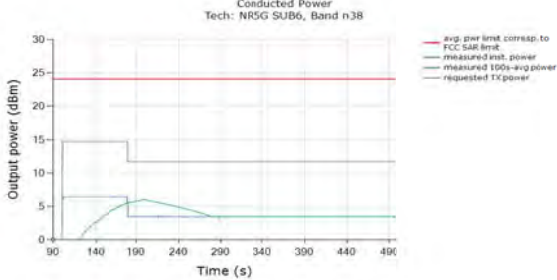
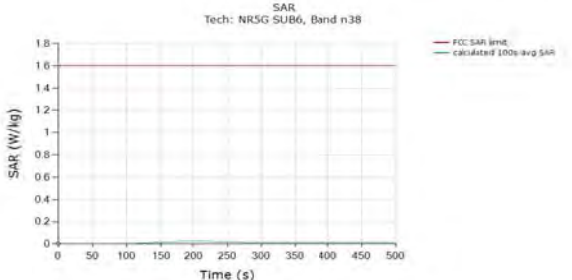
Test sequence2:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.488 (W/kg)
		
Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit		
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

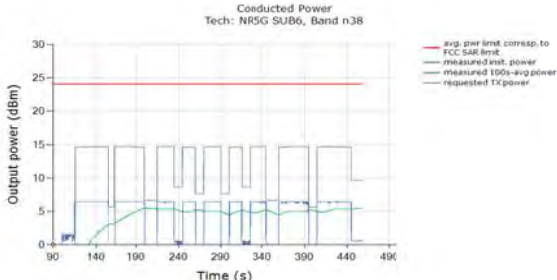
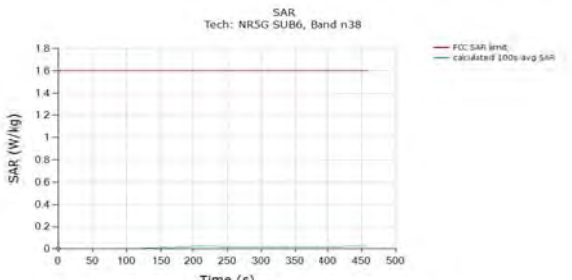
Plot No. 5 LTE Band 41(PC3)

Test sequence1:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.183 (W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

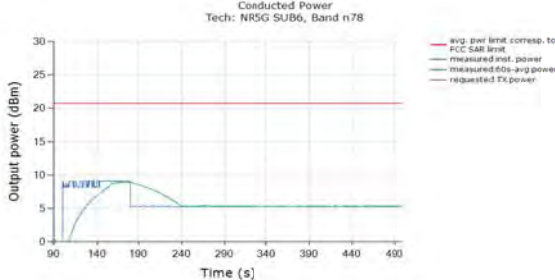
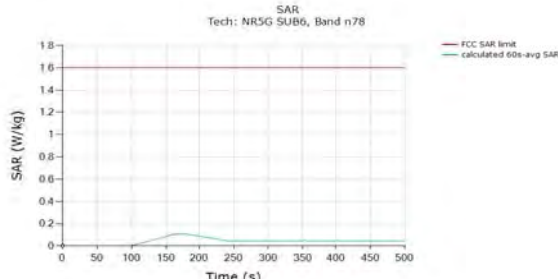
Test sequence2:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.181 (W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

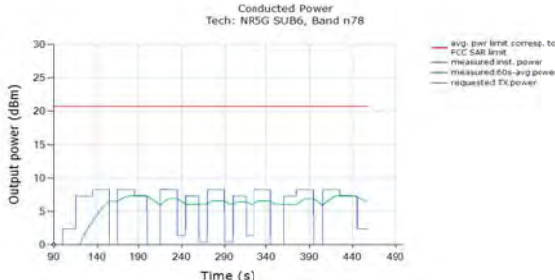
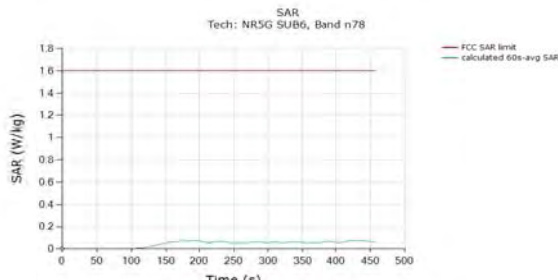
Plot No. 6 NR Band n38

Test sequence1:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.025(W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

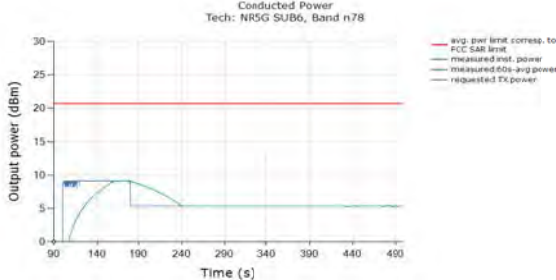
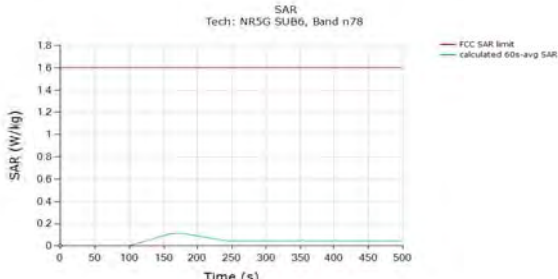
Test sequence2:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.022 (W/kg)
		Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

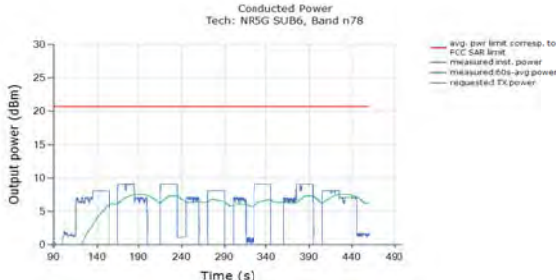
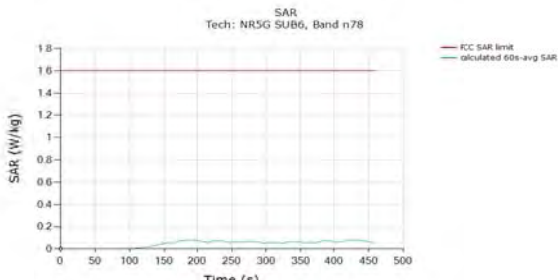
Plot No. 7 NR Band n78 (PC3)

Test sequence1:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 60s-time averaged 1g SAR(green curve)	0.106 (W/kg)
		
Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit		
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

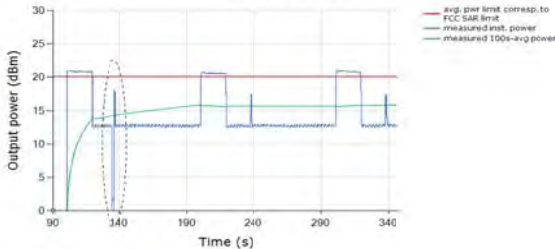
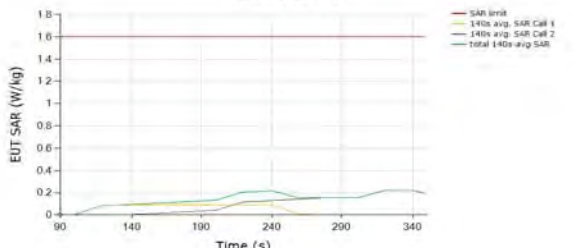
Test sequence2:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 60s-time averaged 1g SAR(green curve)	0.074 (W/kg)
		
Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit		
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

Plot No. 8 NR Band n78 (PC3)

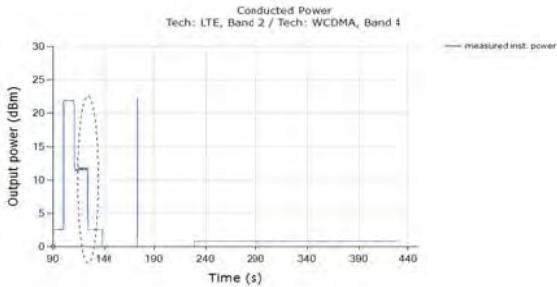
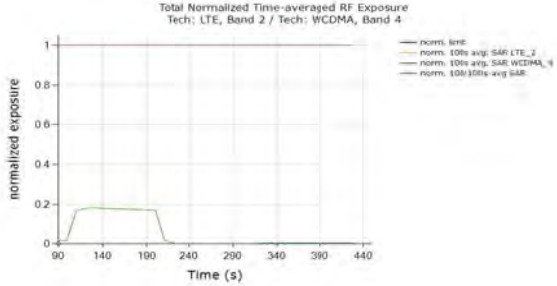
Test sequence1:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 60s-time averaged 1g SAR(green curve)	0.111(W/kg)
		
	Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit	
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

Test sequence2:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 60s-time averaged 1g SAR(green curve)	0.078(W/kg)
Conducted Power Tech: NR5G SUB6, Band n78 	SAR Tech: NR5G SUB6, Band n78 	
Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit		
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1g SAR.		

Plot No. 9 LTE Band 41 (PC3)

Test Calldrop:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.218(W/kg)
Conducted Power Tech: LTE, Band 41  avg. power limit corresp. to FCC SAR limit measured inst. power measured 100s-avg power SAR Call Drop Tech: LTE, Band 41  Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit.		
Above time-averaged conducted Tx power is converted/calculated into time-averaged 1g SAR using Equation (1a) in Section 5.3.12 and plotted below to demonstrate that the time-averaged 1g SAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:		
The test result validated the continuity of power limiting in call change scenario.		

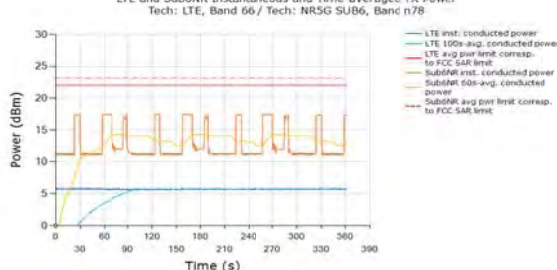
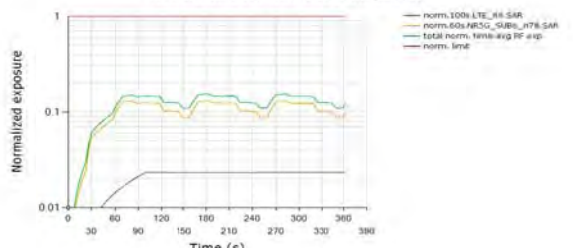
Plot No. 10 WCDMA IV & LTE Band 2

Test Tech/band switch:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.182(W/kg)
Conducted Power Tech: LTE, Band 2 / Tech: WCDMA, Band 4  Total Normalized Time-averaged RF Exposure Tech: LTE, Band 2 / Tech: WCDMA, Band 4  Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit		
All the time-averaged conducted Tx power measurement results were converted into time averaged normalized SAR values using Equation (3a), (3b) and (3c) in Section 5.3.12, and plotted below to demonstrate that the time- averaged normalized SAR versus time does not exceed the normalized FCC limit of 1.0:		
The test result validated the continuity of power limiting in technology/band switch scenario.		

Plot No. 11 WCDMA IV

Test Change Power Reduction:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 100s-time averaged 1g SAR(green curve)	0.088(W/kg)
Conducted Power Tech: WCDMA, Band 4 Total Normalized Time-averaged RF Exposure Tech: WCDMA, Band 4 Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit		
All the time-averaged conducted Tx power measurement results were converted into time averaged normalized SAR values using Equation (3a), (3b) and (3c) in Section 5.3.12, and plotted below to demonstrate that the time- averaged normalized SAR versus time does not exceed the normalized FCC limit of 1.0		
The test result validated the continuity of power limiting in technology/band switch scenario.		

Plot No. 12 LTE Band 66 & NR Band n78 (PC3)

Test SAR vs SAR:		
Power	FCC 1g SAR limit	1.6 (W/kg)
	Max 60s-time averaged 1g SAR(green curve)	0.154 (W/kg)
LTE and Sub6NR Instantaneous and Time-averaged TX Power Tech: LTE, Band 66 / Tech: NR5G SUB6, Band n78  Total Normalized Time-averaged RF Exposure Tech: LTE, Band 66 / Tech: NR5G SUB6, Band n78  Validated: Max time averaged SAR (green curve) is within device uncertainty of measured SAR at Plimit.		
All the conducted Tx power measurement results were converted into time-averaged normalized SAR values using Equation (4a), (4b) and (4c) in Section 5.3.12, and plotted below to demonstrate that the time-averaged normalized SAR versus time does not exceed the FCC limit of 1 unit. Equation (4a) is used to convert the LTE Tx power of device to obtain 100s-averaged normalized SAR in LTE 66 as shown in black curve. Similarly, equation (4b) is used to obtain 60s-averaged normalized SAR in Sub6 NR n78 as shown in orange curve. Equation (4c) is used to obtain total time-averaged normalized SAR as shown in green curve (i.e., sum of black and orange curves).		
The test result validated the continuity of power limiting in technology/band switch scenario.		

10.3 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product Specific 10-g SAR
Main Antenna + Bluetooth	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 2.4GHz	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 5GHz	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 5GHz + Bluetooth	Yes	Yes	Yes	Yes
Div Antenna + Bluetooth	Yes	Yes	Yes	Yes
Div Antenna + Wi-Fi 2.4GHz	Yes	Yes	Yes	Yes
Div Antenna + Wi-Fi 5GHz	Yes	Yes	Yes	Yes
Div Antenna + Wi-Fi 5GHz + Bluetooth	Yes	Yes	Yes	Yes
Wi-Fi 2.4GHz + Wi-Fi 5GHz	N/A	N/A	N/A	N/A
Wi-Fi 2.4GHz + Bluetooth	N/A	N/A	N/A	N/A
Main Antenna + Div Antenna	N/A	N/A	N/A	N/A

Note: VoLTE or pre-installed VOIP applications are considered.

General Note:

- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation $< 1.6\text{W/kg}$, simultaneously transmission SAR measurement is not necessary.
 - $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

The Maximum SAR_{1g} Value for 2G/3G/4G - Main Antenna

Test Position		SAR _{1g} (W/kg)	GSM 850	GSM 1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	2G/3G MAX.	LTE 2	LTE 4	LTE 5	LTE 7	LTE 12	LTE 13	LTE 26	LTE 38	LTE 41 (PC3)	LTE 41 (PC2)	LTE 66	4G MAX.
		ANT 0	ANT 1	ANT 1	ANT 1	ANT 0	SAR _{1g}	ANT 1	ANT 1	ANT 0	ANT 1	ANT 0	ANT 0	ANT 0	ANT 5	ANT 5	ANT 5	ANT 1	SAR _{1g}	
Head	Left Cheek	0.146	0.104	0.179	0.230	0.236	0.236	0.139	0.218	0.219	0.144	0.148	0.139	0.183	0.725	0.673	0.514	0.232	0.725	
	Left Tilt	0.073	0.088	0.147	0.166	0.076	0.166	0.110	0.136	0.069	0.117	0.050	0.046	0.069	0.579	0.684	0.806	0.148	0.806	
	Right Cheek	0.109	0.121	0.191	0.227	0.136	0.227	0.134	0.168	0.138	0.244	0.107	0.088	0.128	0.246	0.337	0.345	0.205	0.345	
	Right Tilt	0.063	0.071	0.131	0.162	0.070	0.162	0.118	0.164	0.076	0.163	0.068	0.046	0.054	0.261	0.269	0.338	0.141	0.338	
Body worn	Back Side	0.179	0.239	0.262	0.312	0.242	0.312	0.294	0.409	0.219	0.436	0.249	0.226	0.223	0.238	0.241	0.283	0.440	0.440	
	Front Side	0.105	0.153	0.162	0.152	0.201	0.201	0.239	0.242	0.143	0.163	0.130	0.117	0.126	0.151	0.140	0.123	0.305	0.305	
Hotspot	Back Side	0.144	0.335	0.512	0.571	0.300	0.571	0.471	0.588	0.457	0.431	0.371	0.284	0.373	0.211	0.226	0.202	0.490	0.588	
	Front Side	0.074	0.193	0.332	0.260	0.194	0.332	0.427	0.309	0.208	0.276	0.174	0.179	0.196	0.192	0.150	0.123	0.367	0.427	
	Left Edge	0.195	0.096	0.117	0.131	0.399	0.399	0.082	0.116	0.298	0.070	0.291	0.189	0.264	N/A	N/A	N/A	0.125	0.298	
	Right Edge	N/A	0.172	0.197	0.169	N/A	0.197	0.238	0.257	N/A	0.387	N/A	N/A	N/A	0.208	0.244	0.245	0.155	0.387	
	Top Edge	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.119	0.076	0.105	N/A	0.119	
	Bottom Edge	0.064	0.563	0.550	0.487	0.128	0.563	0.651	0.648	0.152	0.392	0.086	0.072	0.149	N/A	N/A	N/A	0.760	0.760	

The Maximum SAR_{1g} Value for 5G - Main Antenna

Test Position		SAR _{1g/10g} (W/kg)	NR n2	NR n7	NR n38	NR n41(PC2)	NR n41(PC3)	NR n66	NR n78 (PC2)	NR n78 (PC3)	MAX. SAR _{1g/10g}
		SA	SA&NSA	SA&NSA	SA	SA	SA&NSA	SA	NSA		
		ANT1	ANT1	ANT5	ANT5	ANT5	ANT1	ANT5	ANT5		
Head	Left Cheek	0.143	0.238	0.602	0.700	0.577	0.142	0.795	0.740	0.795	
	Left Tilt	0.110	0.168	0.447	0.516	0.445	0.129	0.674	0.640	0.674	
	Right Cheek	0.284	0.518	0.182	0.232	0.197	0.259	0.435	0.327	0.518	
	Right Tilt	0.124	0.156	0.192	0.242	0.198	0.156	0.473	0.428	0.473	
Body worn	Back Side	0.276	0.186	0.189	0.232	0.204	0.377	0.365	0.343	0.377	
	Front Side	0.170	0.120	0.115	0.135	0.128	0.217	0.296	0.312	0.312	
Hotspot	Back Side	0.436	0.418	0.148	0.146	0.160	0.538	0.171	0.181	0.538	
	Front Side	0.257	0.271	0.090	0.085	0.101	0.315	0.166	0.169	0.315	
	Left Edge	0.001	0.001	N/A	N/A	N/A	0.001	N/A	N/A	0.001	
	Right Edge	0.188	0.377	0.156	0.146	0.164	0.211	0.146	0.147	0.377	
	Top Edge	N/A	N/A	0.089	0.098	0.104	N/A	0.219	0.184	0.219	
	Bottom Edge	0.615	0.387	N/A	N/A	N/A	0.667	N/A	N/A	0.667	

The Maximum SAR_{1g} Value for 2G/3G/4G- Div Antenna

SAR _{1g/10g} (W/kg) Test Position		GSM 1900	WCDMA Band II	WCDMA Band IV	2G/3G MAX.	LTE 2	LTE 4	LTE 7	LTE 38			LTE 41 (PC3)			LTE 41 (PC2)			LTE 66	4G MAX.
		ANT2	ANT 2	ANT 2	SAR _{1g/10g}	ANT 2	ANT 2	ANT 2	ANT 3	ANT 1	ANT 2	ANT 3	ANT 1	ANT 2	ANT 3	ANT 1	ANT 2	ANT 2	SAR _{1g/10g}
Head	Left Cheek	0.298	0.392	0.360	0.392	0.473	0.529	0.287	0.103	0.066	0.175	0.093	0.058	0.133	0.181	0.070	0.148	0.442	0.529
	Left Tilt	0.428	0.559	0.521	0.559	0.532	0.607	0.329	0.037	0.041	0.221	0.083	0.032	0.197	0.068	0.051	0.196	0.596	0.607
	Right Cheek	0.415	0.572	0.554	0.572	0.697	0.738	0.601	0.155	0.086	0.345	0.207	0.116	0.348	0.308	0.129	0.340	0.699	0.738
	Right Tilt	0.694	0.665	0.686	0.694	0.924	0.936	0.483	0.062	0.052	0.365	0.077	0.048	0.377	0.093	0.062	0.312	0.905	0.936
Body worn	Back Side	0.314	0.449	0.237	0.449	0.395	0.223	0.255	0.064	0.213	0.110	0.073	0.111	0.098	0.068	0.139	0.128	0.205	0.395
	Front Side	0.191	0.163	0.150	0.191	0.182	0.124	0.115	0.001	0.067	0.035	0.001	0.059	0.036	0.002	0.071	0.072	0.165	0.182
Hotspot	Back Side	0.178	0.142	0.096	0.178	0.275	0.130	0.092	0.050	0.240	0.115	0.052	0.247	0.096	0.046	0.225	0.097	0.151	0.275
	Front Side	0.082	0.089	0.037	0.089	0.182	0.115	0.060	0.032	0.101	0.065	0.001	0.097	0.060	0.001	0.118	0.053	0.102	0.182
	Left Edge	0.033	0.024	0.029	0.033	0.064	0.061	0.122	0.001	0.003	0.112	0.002	0.002	0.083	0.001	0.002	0.090	0.061	0.122
	Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.204	N/A	N/A	0.180	N/A	N/A	0.238	N/A	N/A	0.238
	Top Edge	0.302	0.306	0.147	0.306	0.479	0.276	0.086	0.001	N/A	0.110	0.001	N/A	0.082	0.001	N/A	0.089	0.321	0.479
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.334	N/A	N/A	0.217	N/A	N/A	0.256	N/A	N/A	0.334
Product Specific 10-g SAR	Top Edge	N/A	N/A	N/A	N/A	2.987	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.987

The Maximum SAR_{1g} Value for 5G - Div Antenna

SAR _{1g/10g} (W/kg)		NR n2	NR n7	NR n38			NR n41(PC2)			NR n41(PC3)			NR n66	NR n78 (PC2)			NR n78 (PC3)			MAX. SAR _{1g/10g}
		SA	SA& NSA	SA&NSA			SA			SA			SA& NSA	SA			NSA			
		ANT2	ANT2	ANT3	ANT1	ANT2	ANT3	ANT1	ANT2	ANT3	ANT1	ANT2	ANT2	ANT4	ANT2	ANT3	ANT4	ANT2	ANT3	
Test Position																				
Head	Left Cheek	0.358	0.226	0.249	0.089	0.227	0.204	0.245	0.213	0.182	0.113	0.162	0.331	0.431	0.213	0.425	0.218	0.221	0.308	0.431
	Left Tilt	0.440	0.286	0.119	0.066	0.255	0.077	0.192	0.260	0.088	0.082	0.181	0.389	0.174	0.197	0.068	0.118	0.184	0.043	0.440
	Right Cheek	0.568	0.564	0.325	0.095	0.518	0.357	0.414	0.522	0.330	0.211	0.430	0.471	0.234	0.523	0.577	0.133	0.467	0.452	0.577
	Right Tilt	0.677	0.541	0.356	0.067	0.493	0.100	0.152	0.423	0.122	0.066	0.333	0.657	0.069	0.384	0.138	0.065	0.385	0.107	0.677
Body worn	Back Side	0.417	0.188	0.076	0.183	0.181	0.076	0.224	0.154	0.086	0.181	0.174	0.226	0.148	0.121	0.076	0.156	0.115	0.107	0.417
	Front Side	0.197	0.086	0.001	0.118	0.101	0.001	0.154	0.077	0.001	0.124	0.085	0.172	0.036	0.055	0.044	0.033	0.054	0.057	0.197
Hotspot	Back Side	0.159	0.120	0.056	0.536	0.131	0.029	0.516	0.112	0.025	0.411	0.105	0.121	0.131	0.083	0.061	0.135	0.077	0.070	0.536
	Front Side	0.109	0.052	0.001	0.176	0.057	0.001	0.268	0.001	0.001	0.293	0.001	0.094	0.042	0.034	0.037	0.043	0.040	0.041	0.293
	Left Edge	0.001	0.135	0.001	0.001	0.127	0.001	0.001	0.101	0.001	0.001	0.092	0.056	N/A	0.088	0.059	N/A	0.084	0.070	0.135
	Right Edge	N/A	N/A	0.001	0.204	N/A	0.001	0.281	N/A	0.001	0.337	N/A	N/A	0.049	N/A	0.037	0.052	N/A	0.043	0.337
	Top Edge	0.279	0.093	0.001	N/A	0.093	0.001	N/A	0.098	0.001	N/A	0.080	0.242	0.034	0.032	0.036	0.041	0.031	0.043	0.279
	Bottom Edge	N/A	N/A	N/A	0.355	N/A	N/A	0.314	N/A	N/A	0.403	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.403

The Maximum SAR_{1g/10g} Value for Wi-Fi 5G

Test Position		Wi-Fi 5G				MAX. SAR _{1g/10g}
		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	
		ANT8	ANT8	ANT8	ANT8	
Head	Left, Cheek	0.161	0.227	0.536	0.484	0.536
	Left, Tilt	0.036	0.156	0.352	0.131	0.352
	Right, Cheek	0.017	0.053	0.137	0.088	0.137
	Right, Tilt	0.015	0.062	0.153	0.023	0.153
Body worn	Back Side	0.208	0.214	0.323	0.367	0.367
	Front Side	0.078	0.082	0.125	0.146	0.146
Hotspot	Back Side	0.221	N/A	N/A	0.363	0.363
	Front Side	0.079	N/A	N/A	0.193	0.193
	Left Edge	N/A	N/A	N/A	N/A	N/A
	Right Edge	0.261	N/A	N/A	0.606	0.606
	Top Edge	0.144	N/A	N/A	0.247	0.247
	Bottom Edge	N/A	N/A	N/A	N/A	N/A
Product Specific 10-g SAR	Back Side	N/A	0.717	1.634	N/A	1.634
	Front Side	N/A	0.257	0.616	N/A	0.616
	Left Edge	N/A	N/A	N/A	N/A	N/A
	Right Edge	N/A	0.834	1.901	N/A	1.901
	Top Edge	N/A	0.241	0.337	N/A	0.337
	Bottom Edge	N/A	N/A	N/A	N/A	N/A

About Wi-Fi and Bluetooth and Main Antenna/ Div Antenna.

SAR1g/10g(W/kg)		Main- Antenna			Div- Antenna			Wi-Fi	Wi-Fi	Bluetooth	MAX. Σ SAR1g/10g					
		2G/3G	4G	5G NR	2G/3G	4G	5G NR	2.4G	5G							
		1	2	3	4	5	6	7	8	9	Max(1,4) +7	Max(2,5) +7	Max(3,6) +7	Max(1,4) +8+9	Max(2,5) +8+9	Max(3,6) +8+9
Head	Left, Cheek	0.236	0.725	0.795	0.392	0.529	0.431	0.102	0.536	0.146	0.494	0.827	0.897	1.074	1.407	1.477
	Left, Tilt	0.166	0.806	0.674	0.559	0.607	0.440	0.042	0.352	0.043	0.601	0.848	0.716	0.954	1.201	1.069
	Right, Cheek	0.227	0.345	0.518	0.572	0.738	0.577	0.040	0.137	0.036	0.612	0.778	0.617	0.745	0.911	0.750
	Right, Tilt	0.162	0.338	0.473	0.694	0.936	0.677	0.027	0.153	0.022	0.721	0.963	0.704	0.869	1.111	0.852
Body worn	Back Side	0.312	0.440	0.377	0.449	0.395	0.417	0.380	0.367	0.259	0.829	0.820	0.797	1.075	1.066	1.043
	Front Side	0.201	0.305	0.312	0.191	0.182	0.197	0.122	0.146	0.034	0.323	0.427	0.434	0.381	0.485	0.492
Hotspot	Back Side	0.571	0.588	0.538	0.178	0.275	0.536	0.557	0.363	0.259	1.128	1.145	1.095	1.193	1.210	1.160
	Front Side	0.332	0.427	0.315	0.089	0.182	0.293	0.178	0.193	0.034	0.510	0.605	0.493	0.559	0.654	0.542
	Left Edge	0.399	0.298	0.001	0.033	0.122	0.135	N/A	N/A	N/A	0.399	0.298	0.135	0.399	0.298	0.135
	Right Edge	0.197	0.387	0.377	N/A	0.238	0.337	0.373	0.606	0.097	0.570	0.760	0.750	0.900	1.090	1.080
	Top Edge	N/A	0.119	0.219	0.306	0.479	0.279	0.087	0.247	0.016	0.393	0.566	0.366	0.569	0.742	0.542
	Bottom Edge	0.563	0.760	0.667	N/A	0.334	0.403	N/A	N/A	N/A	0.563	0.760	0.667	0.563	0.760	0.667
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.634	N/A	0	0	0	1.634	1.634	1.634
	Front Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.616	N/A	0	0	0	0.616	0.616	0.616
	Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0
	Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.901	N/A	0	0	0	1.901	1.901	1.901
	Top Edge	N/A	N/A	N/A	N/A	2.987	N/A	N/A	0.337	N/A	0	2.987	0	0.337	3.324	0.337
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0

Note:

 1. The value with blue color is the maximum Σ SAR_{1g/10g} Value.

 2. MAX. Σ SAR_{1g/10g} = Unlicensed SAR_{MAX} + Licensed SAR_{MAX}

 3. MAX. Σ SAR_{1g} = 1.477W/kg < 1.6W/kg and MAX. Σ SAR_{10g} = 3.324W/kg < 4 W/kg, so the Simultaneous transmission SAR with volume scan are not required for Bluetooth, Wi-Fi 5G and Main-Antenna/ Div-Antenna.

Conclusion:

According to the KDB 690783 D01 section 1) d) i), when the sum of 1-g SAR applies for simultaneous transmission SAR test exclusion, the highest sum of 1-g SAR according to the highest reported stand-alone SAR values is used, and the highest Reported SAR for simultaneous transmission exposure conditions is 1.477 W/kg

	Max. SAR1g (W/kg)	Normalized RFx	Note
4G	0.936	≤1.0	/
5G NR	0.795	≤1.0	/
4G + 5G NR (EN-DC)	/	≤1.0	Total EN-DC SAR is ≤ SAR design target, Simultaneous transmission analysis for EN-DC operations is shown Page 612. The maximum SAR test result meets the standard limit.
WLAN	0.606	≤1.0	/
4G + WLAN	1.407	≤1.0	/
5G NR + WLAN	1.477	≤1.0	/
4G + 5G NR + WLAN	/	≤1.0	The derivation process is as follows

Mathematical Derivation of TER Compliance

$$\text{Total Normalized RFx} = \text{Normalized RFx}_{\text{Time Averaged WWAN}} + \text{Normalized RFx}_{\text{WLAN}} \leq 1.0 \quad (\text{i})$$

Since WWAN Smart Transmit algorithm adds directly the time-averaged RF exposure from 4G and time-averaged RF exposure from 5G NR, per chipset manufacturer's guidance, Normalized RF exposure from 4G and from 5G NR could be assumed as

$$\text{Normalized RFx}_{\text{Time Averaged WWAN}} = \frac{4\text{G SAR}}{4\text{G SAR Limit}} + \frac{5\text{G NR SAR}}{5\text{G NR SAR Limit}} \leq 1.0 \quad (\text{ii})$$

Smart Transmit algorithm assumes that 4G and 5G NR hotspots are co-located and therefore:

$$\text{Time Averaged WWAN} = [x(t)*A] + [(1-x(t)) *B] \leq 1.0 \text{ Normalized Limit} \quad (\text{iii})$$

A = Max normalized time-averaged SAR exposure from 4G

B = Max normalized time-averaged SAR exposure from 5G NR

x(t) = Ranges between [0, 1]

x(t) * A = Percentage of normalized time-averaged RF exposure from 4G

(1-x(t)) * B = Remaining percentage of RF exposure contribution from 5G NR

Smart Transmit controls "x" in real time such that the sum of these exposures never exceeds 1.0 Normalized Limit. If the equations below (iv a, iv b) are proven, then, mathematically equation (v) would be proven.

$$A + \text{norm. SAR from WLAN} \leq 1.0 \text{ normalized limit} \quad (\text{iv a})$$

$$B + \text{norm. SAR from WLAN} \leq 1.0 \text{ normalized limit} \quad (\text{iv b})$$

$$[x(t)*A] + [(1-x(t)) *B] + \text{norm. SAR from WLAN} \leq 1.0 \text{ normalized limit} \quad (\text{v})$$

11 Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528- 2013 is not required in SAR reports submitted for equipment approval. This also applies to the 10-g SAR required for phablets in KDB Publication 648474.

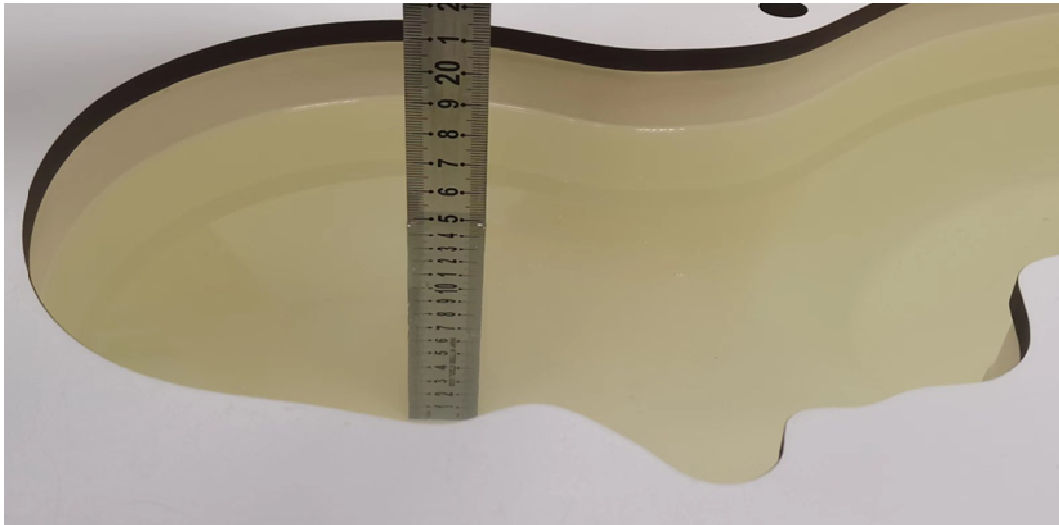
*****END OF REPORT *****

ANNEX A: Test Layout

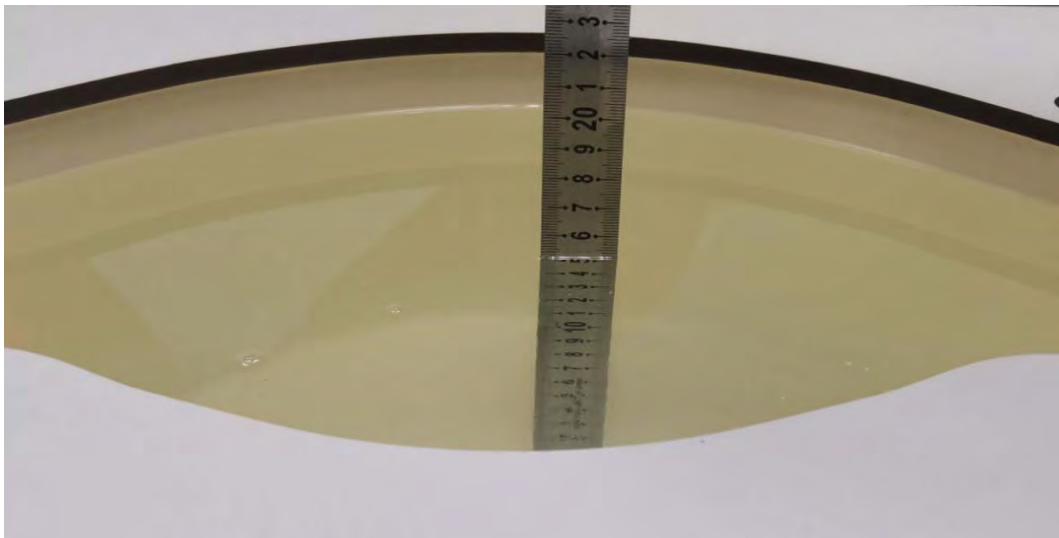


Tissue Simulating Liquids

For the measurement of the field distribution inside the flat phantom with DASY, the phantom must be filled with around 25 liters of homogeneous tissue simulating liquid. For SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is >15 cm, which is shown as below.



Picture 3: liquid depth in the head Phantom



Picture 4: Liquid depth in the flat Phantom

ANNEX B: System Check Results

Plot 1 System Performance Check at 750 MHz TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3

Date: 2023/1/6

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.63, 9.63, 9.63); Calibrated: 2022/7/8

Electronics: DAE4 SN1291; Calibrated: 2022/3/24

Phantom: SAM 2; Type: SAM; Serial: TP: 1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.29 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.653 V/m; Power Drift = -0.08 dB

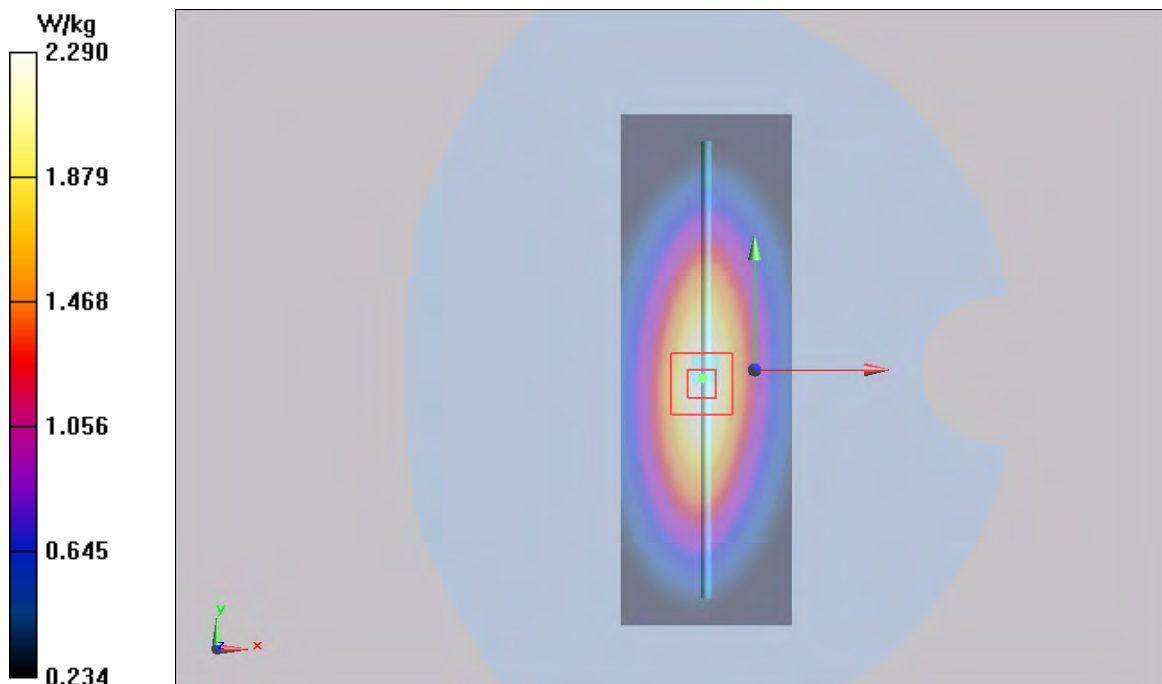
Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.41 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 68.7%

Maximum value of SAR (measured) = 2.29 W/kg



Plot 2 System Performance Check at 750 MHz TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3

Date: 2023/1/9

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 42.0$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3677; ConvF(9.63, 9.63, 9.63); Calibrated: 2022/7/8

Electronics: DAE4 SN1291; Calibrated: 2022/3/24

Phantom: SAM 2; Type: SAM; Serial: TP: 1666

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.31 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.557 V/m ; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.14 W/kg

SAR(1 g) = 2.10 W/kg ; SAR(10 g) = 1.37 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 68.5%

Maximum value of SAR (measured) = 2.264 W/kg

