

SAR TEST REPORT

Applicant Honor Device Co., Ltd.
FCC ID 2AYGCMTN-NX3
Product Smart Phone
Model MTN-NX3
Report No. EFTA25070279-IE-01-S1
Issue Date September 8, 2025

Eurofins 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.



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1 Test Laboratory

1.1 Notes of the Test Report

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1.2 Test Facility

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

Eurofins 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)

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

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
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 10mm)	1g SAR Hotspot (Separation 10mm)	Product Specific 10-g SAR (Separation 0mm)
GSM 850	0.27	0.28	0.16	NA
GSM 1900	0.74	0.46	0.26	NA
WCDMA Band II	0.76	0.66	0.66	NA
WCDMA Band IV	0.76	0.66	0.62	NA
WCDMA Band V	0.26	0.35	0.39	NA
LTE Band 2	0.72	0.66	0.81	NA
LTE Band 7	1.03	0.90	0.45	NA
LTE Band 12 (LTE Band 17)	0.14	0.25	0.33	NA
LTE Band 13	0.16	0.30	0.28	NA
LTE Band 26 (LTE Band 5)	0.22	0.34	0.30	NA
LTE Band 66 (LTE Band 4)	0.71	0.61	0.72	NA
LTE Band 41 (LTE Band 38)	0.78	0.72	0.43	NA
NR n2	0.78	0.63	0.89	1.83
NR n7	0.73	0.78	0.51	NA
NR n66	0.65	0.52	0.67	NA
NR n41 (NR n38)	0.76	0.79	0.62	NA
NR n78	0.61	0.72	0.34	NA
Wi-Fi (2.4GHz)	0.92	0.48	0.49	NA
Wi-Fi (5GHz)	0.55	0.60	0.69	0.71
Bluetooth	0.52	0.20	0.25	NA
Date of Testing: July 25,2025 ~ August 16, 2025				
Date of Sample Received: July 22,2025				
Note:				
1. 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.

2. All indications of Pass/Fail in this report are opinions expressed by Eurofins 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) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):

WWAN Antenna SAR for LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range 699-716 MHz); LTE Band 4 (Frequency range 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz); LTE Band 5 (Frequency range 824 ~ 849 MHz) is covered by LTE Band 26 (Frequency range: 814 ~ 849 MHz) ; LTE Band 38 (Frequency range 2570 ~ 2620 MHz) is covered by LTE Band 41 (Frequency range: 2496 ~ 2690MHz); NR N38 (Frequency range 2570 ~ 2620 MHz) is covered by NR N41(Frequency range: 2496 ~ 2690MHz) 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 exposure limits according to the FCC rule § 2.1093, the ANSI C95.1: 1992, IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

Table 2: Highest Simultaneous Transmission SAR

Exposure Configuration	1g SAR Head	1g SAR Body-worn (Separation 10mm)	1g SAR Hotspot (Separation 10mm)	Product Specific 10-g SAR (Separation 0mm)
Highest Simultaneous Transmission SAR (W/kg)	1.36	1.44	1.19	1.96
Note: The detail for simultaneous transmission consideration is described in chapter 10.3.				

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	MTN-NX3		
IMEI	Battery1	867306080009171; 867306080011466	
	Battery2	867306080010716; 867306080013009	
	Configuration 2	867306080017208; 867306080018123	
	Configuration 3	867306080017364; 867306080018289	
Hardware Version	HN2MTNM		
Software Version	9.0.0.102(C900E100R1P1)		
Antenna Type	Internal Antenna		
Device Class	B		
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 NR n2/n7/n38/n66: 3 NR n41/n78: 2		
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	HB5668A0EIW	Desay	1
	HB5668A0EIW	Sunwoda	2
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 ☐ Multi-slot Class:10-2UP ☒ Multi-slot Class:12-4UP ☐ Multi-slot Class:33-4UP	824 ~ 849		
	1900			1850 ~ 1910		
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No					
WCDMA	Band II	QPSK	HSDPA UE Category:10 HSUPA UE Category:6	1850 ~ 1910		
	Band IV			1710 ~ 1755		
	Band V			824 ~ 849		
LTE	FDD 2	QPSK, 16QAM, 64QAM, 256QAM	Rel.15 /Category 12	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	Rel.15	1850 ~ 1910		
	n7			2500 ~ 2570		
	n38			2570 ~ 2620		
	n41			2496 ~ 2690		
	n66			1710 ~ 1780		
	n78			3450 ~ 3550		
ENDC	/	DC_2A_n7A; DC_2A_n78A; DC_4A_n38A; DC_4A_n41A; DC_4A_n78A; DC_5A_n7A; DC_5A_n78A; DC_7A_n66A; DC_7A_n78A; DC_38A_n78A; DC_66A_n7A; DC_66A_n78A				
Bluetooth	2.4G	Version 5.2 BR/EDR + LE		2402 ~2480		
Wi-Fi	2.4G	DSSS, OFDM, OFDMA	802.11b/g/n/ax HT20/HE20	2412 ~ 2462		
		OFDM, OFDMA	802.11n/ax HT40/HE40	2422 ~ 2452		
	5G	OFDM, OFDMA	802.11a HT20/ n HT20/ HT40/ ac VHT20/ VHT40/ VHT80/ ax HE20/ HE40/ HE80	5150 ~ 5350 5470 ~ 5850		
			Does this device support MIMO ☐ Yes ☒ No			
NFC	13.56MHz					

Note:

1. The device incorporates the Smart Transmit (Smart TX) SAR averaging algorithm provided by Qualcomm

for cellular technologies. Smart Transmit controls the Tx power of the cellular based wireless device in real-time to maintain the time-averaged Tx power, and in turn, time-averaged RF exposure, below the predefined time-average power limit characterized for each technology and band.

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:

KDB 248227 D01 802.11Wi-Fi SAR v02r02
KDB 447498 D01 General RF Exposure Guidance v06
KDB 648474 D04 Handset SAR v01r03
KDB 648474 D03 Wireless Chargers Battery Cover v01r04
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 $> 15.0 \text{ cm}$ 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 3: 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 4: 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 5: 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 6: 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 SF4	11484	5.76
	4	4	10		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, 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, 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. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

3) 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.

4) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA, 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/HSPA+ channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCl and AG index values.

5) 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 7: 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.

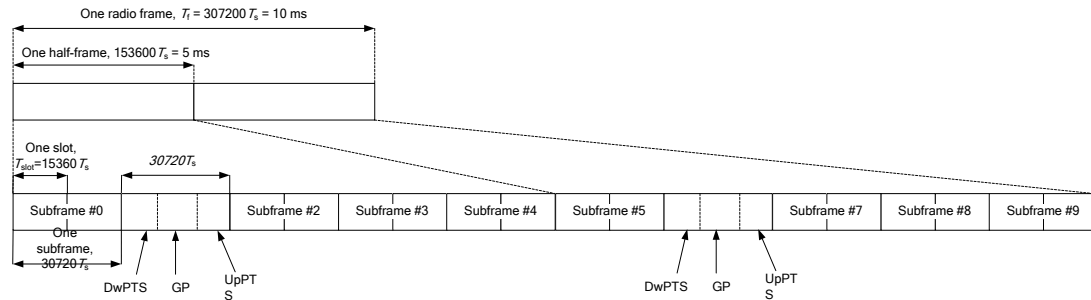


Figure 1: Frame structure type 2

Table 8: 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	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
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 9: 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:

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

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

$$\text{Uplink Component} = \text{UpPTS}$$

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.

$$\text{Duty cycle} = [(30720Ts * \text{Ups}) + \text{UpPTS} * \text{Specials}] / (307200Ts)$$

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

The screenshot shows the 'LTE Signaling - Configuration' window. The 'Physical Cell Setup' section is highlighted with a red box. The 'TDD' section is also highlighted with a red box, and the 'Uplink Downlink Configuration' is set to 0. The 'Special Subframe' is set to 7. The 'LTE Signaling' status is ON.

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.

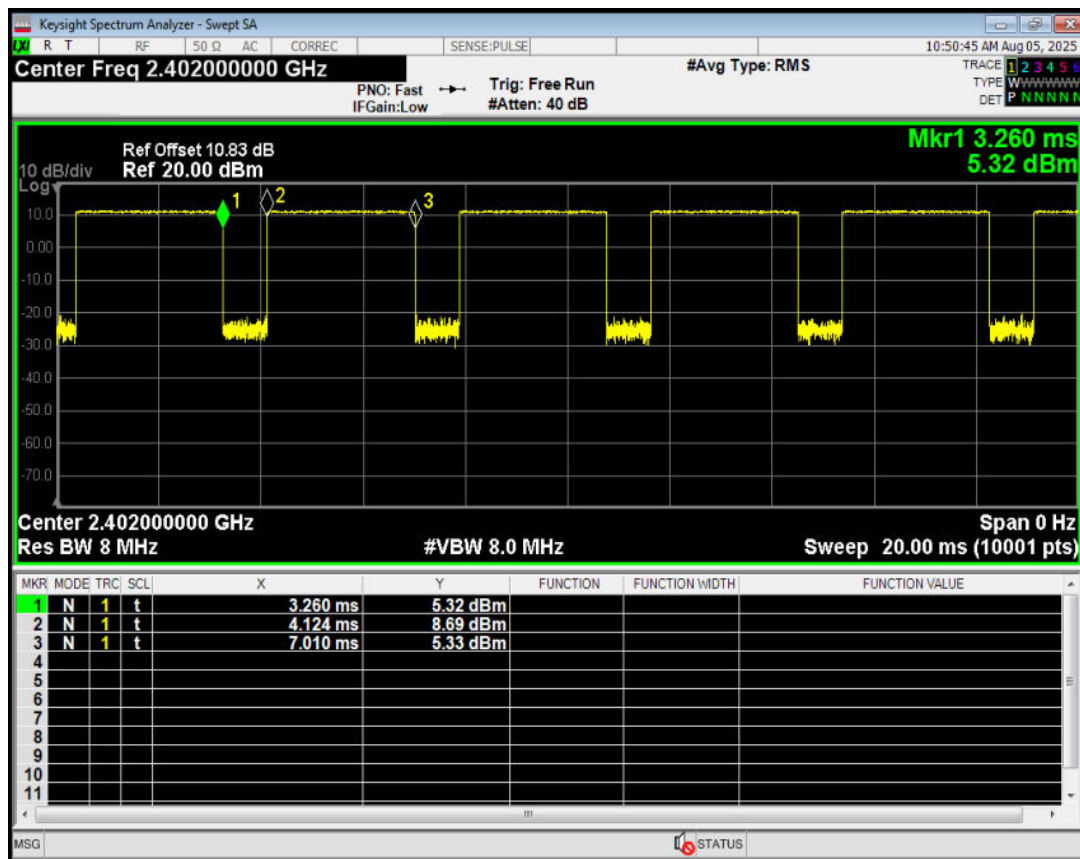
To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

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= 76.9%

5.3.8 Downlink LTE CA specification

The device supports LTE Advanced Rel. 15. Carrier Aggregation (CA) is supported for intra-band and inter-band operations, and more detailed information is provided in the tables below.

1) DL CA Intra band contiguous

E-UTRA CA configuration / Bandwidth combination set								
E-UTRA CA configuration	Uplink CA configurations (NOTE 3)	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					

CA_7C	CA_7C	15	15				40	0
		20	20					
		10	20				40	1
		15	15, 20					
		20	10, 15, 20					
		15	10, 15				40	2
		20	15, 20					
CA_12B	-	5	5, 10				15	0
CA_38C	CA_38C	15	15				40	0
		20	20					
CA_41C	CA_41C	10	20				40	0
		15	15, 20					
		20	10, 15, 20					
		5, 10	20				40	1
		15	15, 20					
		20	5, 10, 15, 20					
		10	15, 20				40	2
		15	10, 15, 20					
		20	10, 15, 20					
		10	20				40	3
		20	20					
CA_66C	-	5	20				40	0
		10	15, 20					
		15	10, 15, 20					
		20	5, 10, 15, 20					

NOTE 1: The CA configuration refers to an operating band and a CA bandwidth class specified in Table 5.6A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.

NOTE 2: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

NOTE 3: Uplink CA configurations are the configurations supported by the present release of specifications.

NOTE 4: Restricted to E-UTRA operation when inter-band carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

2) DL CA Intra band non-contiguous

E-UTRA CA configuration / Bandwidth combination set						
E-UTRA CA configuration	Uplink CA configurations	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]		
CA_66A-66A	NA	5,10,15,20	5,10,15,20		40	0

3) 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-26A	2			Yes	Yes	Yes	Yes	35	0
	26			Yes	Yes	Yes			
CA_2A-38A	2			Yes	Yes	Yes	Yes	40	0
	38			Yes	Yes	Yes	Yes		
CA_2A-2A-5A	2	See CA_2A-2A Bandwidth Combination Set 0 in Table 5.4.2A.1-3						50	0
	5			Yes	Yes				
CA_2A-4A-5A	2			Yes	Yes	Yes	Yes	50	0
	4			Yes	Yes	Yes	Yes		
	5			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-66A	2			Yes	Yes	Yes	Yes	60	0
	7			Yes	Yes	Yes	Yes		
	66			Yes	Yes	Yes	Yes		
CA_4A-12A	4	Yes	Yes	Yes	Yes			20	0
	12			Yes	Yes				
	4	Yes	Yes	Yes	Yes	Yes	Yes	30	1
	12			Yes	Yes				
	4			Yes	Yes	Yes	Yes	30	2
	12		Yes	Yes	Yes				
	4			Yes	Yes			20	3

	12			Yes	Yes			30	4
	4			Yes	Yes	Yes	Yes		
	12			Yes	Yes				
	4			Yes	Yes	Yes		20	5
	12			Yes					
CA_4A-17A	4			Yes	Yes			20	0
	17			Yes	Yes				
CA_4A-4A-5A	4	See CA_4A-4A Bandwidth Combination Set 0 in table 5.4.2A.1-3						50	0
	5			Yes	Yes				
CA_4A-4A-7A	4			Yes	Yes			40	0
	4			Yes	Yes				
	7			Yes	Yes	Yes	Yes		
	4			Yes	Yes	Yes	Yes	60	1
	4			Yes	Yes	Yes	Yes		
	7			Yes	Yes	Yes	Yes		
CA_7A-26A	7			Yes	Yes	Yes	Yes	35	0
	26			Yes	Yes	Yes			
CA_7A-7A-66A	7	See CA_7A-7A Bandwidth Combination Set 1 in Table 5.4.2A.1-3						60	0
	66			Yes	Yes	Yes	Yes		
CA_12A-66A	12			Yes	Yes				
	66	Yes	Yes	Yes	Yes				
	12			Yes	Yes				
	66	Yes	Yes	Yes	Yes	Yes	Yes		
	12		Yes	Yes	Yes				
	66			Yes	Yes	Yes	Yes		
	12			Yes	Yes				
	66			Yes	Yes				
	12			Yes	Yes				
	66			Yes	Yes	Yes	Yes		
	12			Yes					
	66			Yes	Yes	Yes			
CA_26A-41A	26			Yes	Yes	Yes		35	0
	41			Yes	Yes	Yes	Yes		
CA_38A-66A	38			Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes		

Index	2CC	Completely Covered by Measurement Superset	Index	3CC	Completely Covered by Measurement Superset
2CC #1	CA_2C	N/A	3CC #1	CA_2A-2A-5A	N/A
2CC #2	CA_7C	N/A	3CC #2	CA_2A-4A-5A	N/A
2CC #3	CA_12B	N/A	3CC #3	CA_2A-5A-7A	N/A
2CC #4	CA_38C	N/A	3CC #4	CA_2A-5A-66A	N/A
2CC #5	CA_41C	N/A	3CC #5	CA_2A-7A-66A	N/A
2CC #6	CA_66C	N/A	3CC #6	CA_4A-4A-5A	N/A
2CC #7	CA_2A-2A	3CC #1	3CC #7	CA_4A-4A-7A	N/A
2CC #8	CA_2A-4A	3CC #2	3CC #8	CA_7A-7A-66A	N/A
2CC #9	CA_2A-5A	3CC #3			
2CC #10	CA_2A-7A	3CC #3			
2CC #11	CA_2A-26A	N/A			
2CC #12	CA_2A-38A	N/A			
2CC #13	CA_2A-66A	3CC #4			
2CC #14	CA_4A-4A	3CC #6			
2CC #15	CA_4A-5A	3CC #6			
2CC #16	CA_4A-7A	3CC #7			
2CC #17	CA_4A-12A	N/A			
2CC #18	CA_4A-17A	N/A			
2CC #19	CA_5A-7A	3CC #3			
2CC #20	CA_5A-66A	3CC #4			
2CC #21	CA_7A-7A	3CC #8			
2CC #22	CA_7A-26A	N/A			
2CC #23	CA_7A-66A	3CC #8			
2CC #24	CA_12A-66A	N/A			
2CC #25	CA_26A-41A	N/A			
2CC #26	CA_38A-66A	N/A			
2CC #27	CA_66A-66A	N/A			

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

Mode	Band	Full Power	Antenna	Head(Receiver on)			Body wron&Product-specific 10g SAR(Receiver off)			Hotspot(Receiver off+Hotspot on)		
				Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission	
					WWAN+Wifi	WWAN+Wifi		WWAN+Wifi	WWAN+Wifi		WWAN+Wifi	WWAN+Wifi
					2.4G/5G/BT	5G+BT		2.4G/5G/BT	5G+BT		2.4G/5G/BT	5G+BT
				DSI 2	DSI 6	DSI 8	DSI 4	DSI 10	DSI 12	DSI 14	DSI 14	DSI 14
GSM (CS)	GSM850	32.5	0	0.0	1.0	1.5	0.0	1.0	1.5	4.0	4.0	4.0
	GSM1900	29.5	0	0.0	1.0	1.5	0.0	1.0	1.5	4.0	4.0	4.0
		29.0	2	3.5	5.0	5.5	0.0	2.0	4.5	5.5	5.5	5.5
12.2kbps RMC	WCDMA_B2	23.5	0	1.5	2.5	3.0	1.5	2.5	3.0	3.0	3.0	3.0
		23.0	2	7.0	8.5	9.0	1.5	3.5	6.0	9.0	9.0	9.0
	WCDMA_B4	23.3	0	1.0	2.0	2.5	1.0	2.0	2.5	2.5	2.5	2.5
		22.8	2	4.8	6.3	6.8	1.0	3.0	5.5	6.8	6.8	6.8
	WCDMA_B5	24.0	0	0.0	0.0	0.0	0.0	1.0	1.5	1.5	1.5	1.5
LTE Bands	LTE_B2	23.5	0	1.5	2.5	3.0	1.5	2.5	3.0	3.0	3.0	3.0
		23.0	2	6.5	8.0	8.5	1.0	3.0	5.5	8.5	8.5	8.5
	LTE_B4	23.5	0	1.0	2.0	2.5	1.0	2.0	2.5	2.5	2.5	2.5
		23.0	2	4.8	6.3	6.8	1.0	3.0	5.5	6.8	6.8	6.8
	LTE_B5	24.0	0	0.0	1.0	1.5	0.0	1.0	1.5	1.5	1.5	1.5
	LTE_B7	23.5	0	1.5	2.5	3.0	1.5	2.5	3.0	3.0	3.0	3.0
		22.8	2	6.5	8.0	9.0	4.5	6.5	9.0	9.0	9.0	9.0
		23.5	4	7.5	9.0	9.5	3.2	5.2	7.7	9.5	9.5	9.5
	LTE_B12	24.0	0	0.0	1.0	1.5	0.0	1.0	1.5	1.5	1.5	1.5
	LTE_B13	24.0	0	0.0	1.0	1.5	0.0	1.0	1.5	1.5	1.5	1.5
	LTE_B17	24.0	0	0.0	1.0	1.5	0.0	1.0	1.5	1.5	1.5	1.5
	LTE_B26	24.0	0	0.0	1.0	1.5	0.0	1.0	1.5	1.5	1.5	1.5
	LTE_B66	23.5	0	1.0	2.0	2.5	1.0	2.0	2.5	2.5	2.5	2.5
		23.0	2	4.5	6.0	6.5	1.0	3.0	5.5	6.5	6.5	6.5
	LTE_B38	23.5	4	6.0	7.5	8.0	0.5	2.5	5.0	8.0	8.0	8.0
		19.6	5	1.0	2.5	4.5	0.0	2.0	4.5	4.5	4.5	4.5
		21.2	0	0.0	1.0	1.5	0.0	1.0	1.5	1.5	1.5	1.5
		20.2	2	2.3	3.8	4.5	0.0	2.0	4.5	4.5	4.5	4.5
	LTE_B41	25.3	4	6.0	7.5	8.0	1.4	3.4	5.9	8.0	8.0	8.0
		21.4	5	1.5	3.0	4.5	0.0	2.0	4.5	4.5	4.5	4.5
		23.0	0	0.0	1.0	1.5	0.0	1.0	1.5	1.5	1.5	1.5
		22.0	2	2.3	3.8	5.3	0.8	2.8	5.3	5.3	5.3	5.3
NR	n2	23.0	0	1.5	2.5	3.0	1.5	2.5	3.0	3.0	3.0	3.0

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Bands		22.5	2	6.8	8.3	8.8	1.5	3.5	6.0	8.8	8.8	8.8
n7		23.0	4	7.3	8.8	9.3	3.0	5.0	7.5	9.3	9.3	9.3
		23.0	0	1.8	2.8	3.3	1.8	2.8	3.3	3.3	3.3	3.3
		22.3	2	6.5	8.0	9.5	5.0	7.0	9.5	9.5	9.5	9.5
		22.3	2	6.5	8.0	9.5	5.0	7.0	9.5	9.5	9.5	9.5
n66		23.0	0	1.2	2.2	2.7	1.2	2.2	2.7	2.7	2.7	2.7
		22.5	2	5.5	7.0	7.5	1.8	3.8	6.3	7.5	7.5	7.5
n38		23.3	4	7.5	9.0	9.5	4.0	6.0	8.5	9.5	9.5	9.5
		19.4	5	3.5	5.0	5.5	0.0	2.0	4.5	5.5	5.5	5.5
		21.0	0	0.8	1.8	2.3	0.8	1.8	2.3	2.3	2.3	2.3
		20.0	2	4.0	5.5	6.8	2.3	4.3	6.8	6.8	6.8	6.8
n41		25.3	4	9.5	11.0	11.5	6.0	8.0	10.5	11.5	11.5	11.5
		21.4	5	5.0	6.5	7.0	0.0	2.0	4.5	7.0	7.0	7.0
		23.0	0	2.5	3.5	4.0	2.5	3.5	4.0	4.0	4.0	4.0
		22.0	2	6.0	7.5	9.0	4.5	6.5	9.0	9.0	9.0	9.0
n78		26.0	7	12.5	14.0	14.5	8.0	10.0	12.5	14.5	14.5	14.5
		23.5	2	7.0	8.5	9.8	5.3	7.3	9.8	9.8	9.8	9.8
		25.0	6	8.0	9.5	10.0	4.7	6.7	9.2	10.0	10.0	10.0
		23.2	12	8.0	9.5	10.0	5.5	7.5	10.0	10.0	10.0	10.0

WLAN Reduced power level table

Band	Mode	Full Power	Antenna	Head(Receiver on)		Body wron&Product-specific 10g SAR(Receiver off)		Hotspot(Receiver off)	
				Standalone	Simultaneous transmission	Standalone	Simultaneous transmission	Standalone	Simultaneous transmission
					WWAN+Wifi 2.4G/5G/BT		WWAN+Wifi 2.4G/5G/BT		WWAN+Wifi 2.4G/5G/BT
2.4G	802.11b	20.0	13	1.0	4.5	0.5	2.5	0.0	0.0
	802.11g	20.0		1.0	4.5	0.5	2.5	0.0	0.0
	11n/11ax 20M	20.0		1.0	4.5	0.5	2.5	0.0	0.0
	11n/11ax 40M	19.0		0.0	3.5	0.0	1.5	0.0	0.0
	802.11b	19.0	9	0.5	4.0	0.0	1.0	0.0	0.0
	802.11g	19.0		0.5	4.0	0.0	1.0	0.0	0.0
	11n/11ax 20M	19.0		0.5	4.0	0.0	1.0	0.0	0.0
	11n/11ax 40M	18.0		0.0	3.0	0.0	1.0	0.0	0.0
5G U-NII-1	802.11a	18.0	8	3.5	7.0	2.0	4.0	2.0	3.0
	11n 20M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11n 40M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 20M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 40M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 80M	14.5		0	3.5	0.0	0.5	0.0	0.0
	802.11a	17.0	10	2	6.0	0.0	0.5	1.5	0.5
	11n 20M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11n 40M	17.5		2	6.0	0.0	0.5	1.5	0.5

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	11ac/11ax 20M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 40M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 80M	13.5		0	2.5	0.0	0.0	0.0	0.0
5G U-NII-2A	802.11a	18.0	8	3.5	7.0	2.0	4.0	2.0	3.0
	11n 20M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11n 40M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 20M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 40M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 80M	15.5		1	4.5	0.0	1.5	0.0	0.5
	802.11a	17.5	10	2	6.0	0.0	0.5	1.5	0.5
	11n 20M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11n 40M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 20M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 40M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 80M	13.0		0	3.5	0.0	0.0	0.0	0.0
5G U-NII-2C	802.11a	18.0	8	3.5	7.0	2.0	4.0	2.0	3.0
	11n 20M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11n 40M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 20M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 40M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 80M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	802.11a	17.5	10	2	6.0	0.0	0.5	1.5	0.5
	11n 20M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11n 40M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 20M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 40M	17.5		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 80M	16.5		2	6.0	0.0	0.5	1.5	0.5
5G U-NII-3	802.11a	18.0	8	3.5	7.0	2.0	4.0	2.0	3.0
	11n 20M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11n 40M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 20M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 40M	18.0		3.5	7.0	2.0	4.0	2.0	3.0
	11ac/11ax 80M	16.5		2	5.5	0.5	2.5	0.5	1.5
	802.11a	16.0	10	2	6.0	0.0	0.5	1.5	0.5
	11n 20M	16.0		2	6.0	0.0	0.5	1.5	0.5
	11n 40M	16.0		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 20M	16.0		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 40M	16.0		2	6.0	0.0	0.5	1.5	0.5
	11ac/11ax 80M	14.5		0	4.0	0.0	0.0	0.0	0.0
BT	GFSK	17.5	13	0.0	5.0	0.0	5.0	/	/
	GFSK	17.0	9	0.0	5.0	0.0	5.0	/	/

5.4 Smart Transmit Feature

The FCC's RF exposure limits are established on the basis of time-averaged RF exposure. This product incorporates Qualcomm's Smart Transmit feature, which regulates the instantaneous transmission power of WWAN transmitters. Its role is to guarantee that the product adheres to the FCC RF exposure limits within a specified time window for SAR (with a transmission frequency of $\leq 6\text{GHz}$). It aims to control and manage the transmission power in real time, ensuring that the time-averaged RF exposure complies with regulatory requirements at all times.

The Part 1 test in this report is intended to verify that the device meets the FCC SAR limits when transmitting at the maximum allowable time-averaged power levels in static transmission scenarios. The parameters derived from SAR characterization (referred to as SAR char) will serve as inputs for the Smart Transmit feature. These SAR char parameters will be entered through the Embedded File System (EFS) to activate the Smart Transmit feature. All conducted power and SAR measurements in this report (Part 1 test) were conducted by setting the Reserve_power_margin (Smart Transmit EFS entry) to 0dB.

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} . 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).

Band	Antenna	Head	Body	WWAN +Wifi5G+BT Head	WWAN +Wifi 2.4G/5G/BT Head	WWAN +Wifi5G+BT Body	WWAN +Wifi 2.4G/5G/BT Body	Hotspot	Pmax (dBm)
		DSI 2	DSI 4	DSI 6	DSI 8	DSI 10	DSI 12	DSI 14	
GSM_B850	0	32.5	32.5	31.0	31.5	31.0	31.5	28.5	32.5
GSM_B1900	0	29.5	29.5	28.0	28.5	28.0	28.5	25.5	29.5
GSM_B1900	2	25.5	29.0	23.5	24.0	24.5	27.0	23.5	29.0
WCDMA_B2	0	22.0	22.0	20.5	21.0	20.5	21.0	20.5	23.5
WCDMA_B2	2	16.0	21.5	14.0	14.5	17.0	19.5	14.0	23.0
WCDMA_B4	0	22.3	22.3	20.8	21.3	20.8	21.3	20.8	23.3
WCDMA_B4	2	18.0	21.8	16.0	16.5	17.3	19.8	16.0	22.8

WCDMA_B5	0	24.0	24.0	24.0	24.0	22.5	23.0	22.5	24.0
LTE_B2	0	22.0	22.0	20.5	21.0	20.5	21.0	20.5	23.5
LTE_B2	2	16.5	22.0	14.5	15.0	17.5	20.0	14.5	23.0
LTE_B4	0	22.5	22.5	21.0	21.5	21.0	21.5	21.0	23.5
LTE_B4	2	18.2	22.0	16.2	16.7	17.5	20.0	16.2	23.0
LTE_B5	0	24.0	24.0	22.5	23.0	22.5	23.0	22.5	24.0
LTE_B7	0	22.0	22.0	20.5	21.0	20.5	21.0	20.5	23.5
LTE_B7	2	16.3	18.3	13.8	14.8	13.8	16.3	13.8	22.8
LTE_B7	4	16.0	20.3	14.0	14.5	15.8	18.3	14.0	23.5
LTE_B12	0	24.0	24.0	22.5	23.0	22.5	23.0	22.5	24.0
LTE_B13	0	24.0	24.0	22.5	23.0	22.5	23.0	22.5	24.0
LTE_B17	0	24.0	24.0	22.5	23.0	22.5	23.0	22.5	24.0
LTE_B26	0	24.0	24.0	22.5	23.0	22.5	23.0	22.5	24.0
LTE_B66	0	22.5	22.5	21.0	21.5	21.0	21.5	21.0	23.5
LTE_B66	2	18.5	22.0	16.5	17.0	17.5	20.0	16.5	23.0
LTE_B38	4	17.5	23.0	15.5	16.0	18.5	21.0	15.5	23.5
LTE_B38	5	18.6	19.6	15.1	17.1	15.1	17.6	15.1	19.6
LTE_B38	0	21.2	21.2	19.7	20.2	19.7	20.2	19.7	21.2
LTE_B38	2	17.9	20.2	15.7	16.4	15.7	18.2	15.7	20.2
LTE_B41	4	19.3	23.9	17.3	17.8	19.4	21.9	17.3	25.3
LTE_B41	5	19.9	21.4	16.9	18.4	16.9	19.4	16.9	21.4
LTE_B41	0	23.0	23.0	21.5	22.0	21.5	22.0	21.5	23.0
LTE_B41	2	19.7	21.2	16.7	18.2	16.7	19.2	16.7	22.0
NR5G_N2	0	21.5	21.5	20.0	20.5	20.0	20.5	20.0	23.0
NR5G_N2	2	15.7	21.0	13.7	14.2	16.5	19.0	13.7	22.5
NR5G_N7	4	15.7	20.0	13.7	14.2	15.5	18.0	13.7	23.0
NR5G_N7	0	21.2	21.2	19.7	20.2	19.7	20.2	19.7	23.0
NR5G_N7	2	15.8	17.3	12.8	14.3	12.8	15.3	12.8	22.3
NR5G_N66	0	21.8	21.8	20.3	20.8	20.3	20.8	20.3	23.0
NR5G_N66	2	17.0	20.7	15.0	15.5	16.2	18.7	15.0	22.5
NR5G_N38	4	15.8	19.3	13.8	14.3	14.8	17.3	13.8	23.3
NR5G_N38	5	15.9	19.4	13.9	14.4	14.9	17.4	13.9	19.4
NR5G_N38	0	20.2	20.2	18.7	19.2	18.7	19.2	18.7	21.0
NR5G_N38	2	16.0	17.7	13.2	14.5	13.2	15.7	13.2	20.0
NR5G_N41	4	15.8	19.3	13.8	14.3	14.8	17.3	13.8	25.3
NR5G_N41	5	16.4	21.4	14.4	14.9	16.9	19.4	14.4	21.4
NR5G_N41	0	20.5	20.5	19.0	19.5	19.0	19.5	19.0	23.0
NR5G_N41	2	16.0	17.5	13.0	14.5	13.0	15.5	13.0	22.0
NR5G_N78	7	13.5	18.0	11.5	12.0	13.5	16.0	11.5	26.0
NR5G_N78	2	16.5	18.2	13.7	15.0	13.7	16.2	13.7	23.5
NR5G_N78	6	17.0	20.3	15.0	15.5	15.8	18.3	15.0	25.0
NR5G_N78	12	15.2	17.7	13.2	13.7	13.2	15.7	13.2	23.2

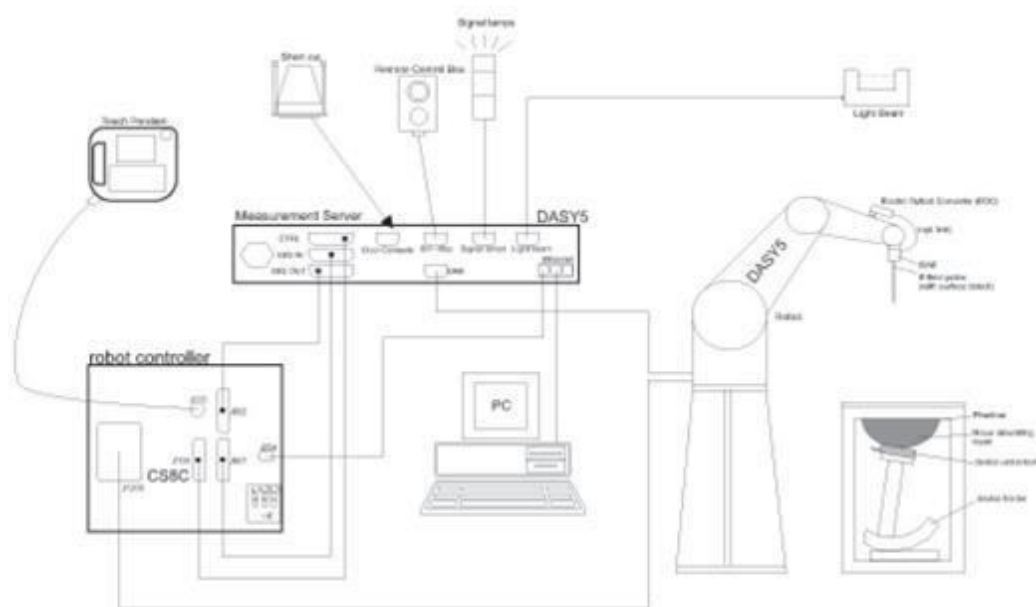
Note:

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.
3. The device have similar frequency in some LTE bands : LTE Band 4/66, 5/26, 12/17, 38/41; NR N38/41, since the supported frequency spans for the smaller LTE bands are completely cover by the larger LTE bands, therefore, only larger LTE bands were required to be tested for SAR.

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

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

Where: σ = Simulated tissue conductivity,
 ρ = Tissue density (kg/m³).

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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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	Software Version	Last Cal.	Cal. Due Date
Network Analyzer	Agilent	E5071B	MY42404014	/	2025-01-06	2026-01-05
Dielectric Probe Kit	SPEAG	DAK-3.5	1332	/	2025-06-15	2026-06-14
Power Meter	Agilent	E4417A	GB41291714	/	2025-05-06	2026-05-05
Power Sensor	Agilent	N8481H	MY50350004	/	2025-05-06	2026-05-05
Power Sensor	Agilent	E9327A	US40441622	/	2025-05-06	2026-05-05
Signal Generator	KEYSIGHT	N5182B-X07	MY51350303	/	2024-12-02	2025-12-01
Dual Directional Coupler	UCL	UCL-DDC056G-S	20010600118	/	/	/
Amplifier	R&S	SCU18F	101022	/	2025-05-06	2026-05-05
Wireless Communication Tester	Anritsu	MT8820C	6201342015	/	2025-05-06	2026-05-05
Wireless Communication Tester	Agilent	E5515C	MY48360988	/	2025-05-06	2026-05-05
Wireless Communication Tester	R&S	CMW 500	146734	/	2025-05-06	2026-05-05
E-field Probe	SPEAG	EX3DV4	3677	/	2025-05-28	2026-05-27
DAE	SPEAG	DAE4	1317	/	2024-09-10	2025-09-09
Validation Kit 750MHz	SPEAG	D750V3	1045	/	2023-09-12	2026-09-11
Validation Kit 835MHz	SPEAG	D835V2	4d020	/	2023-09-15	2026-09-14
Validation Kit 1750MHz	SPEAG	D1750V2	1033	/	2023-03-23	2026-03-22
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	/	2023-09-12	2026-09-11
Validation Kit 2450MHz	SPEAG	D2450V2	786	/	2023-09-12	2026-09-11
Validation Kit 2600MHz	SPEAG	D2600V2	1025	/	2024-05-08	2027-05-07
Validation Kit 3500MHz	SPEAG	D3500V2	1083	/	2022-10-09	2025-10-08
Validation Kit 5GHz	SPEAG	D5GHzV2	1203	/	2022-12-09	2025-12-08
Tissue test software	SPEAG	/	/	3.0.4.1	/	/
Temperature Probe	Auden	DTM3000	3905	/	2024-12-03	2025-12-02
Twin SAM Phantom	SPEAG	SAM2	1666	/	/	/
Hygrothermograph	Anymetr	HTC - 1	TA2025A041	/	2025-05-06	2026-05-05
Test System	SPEAG	TX90 XLspeag	F11/5H7CA1/A/01	52.10.4.15 27	/	/

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	42.0	0.90
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

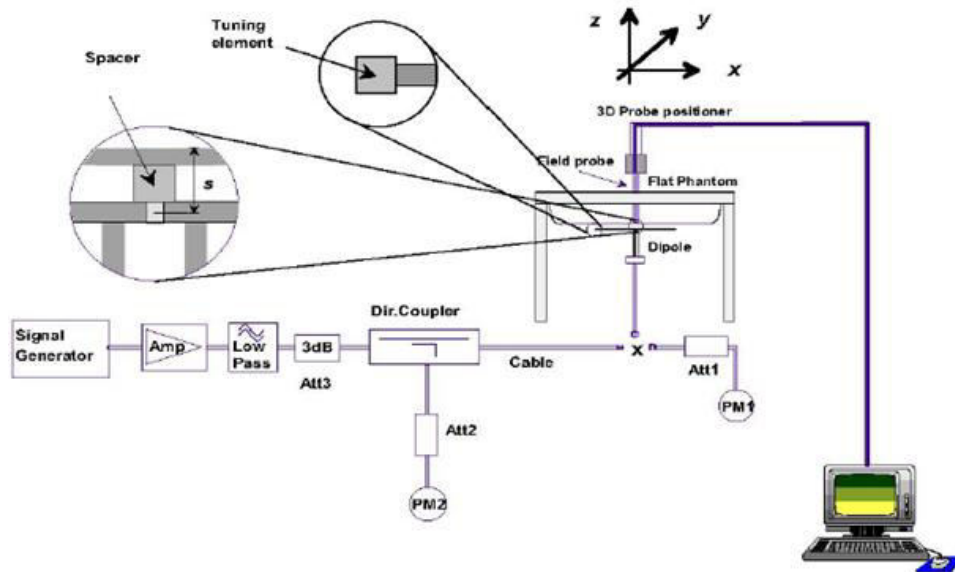
Measurements results

Frequency (MHz)	Test Date	Temp °C	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within ±5%)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
750	8/14/2025	21.5	42.3	0.88	42.0	0.90	0.95	-1.12
835	8/15/2025	21.5	41.4	0.88	41.5	0.90	-0.24	-2.22
1750	7/25/2025	21.5	40.2	1.34	40.1	1.37	0.25	-2.19
	7/26/2025	21.5	40.1	1.34	40.1	1.37	0.00	-2.19
	8/16/2025	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
1900	7/27/2025	21.5	40.1	1.41	40.0	1.40	0.25	0.71
	7/28/2025	21.5	40.2	1.43	40.0	1.40	0.50	2.14
	7/29/2025	21.5	40.0	1.40	40.0	1.40	0.00	0.00
2450	8/7/2025	21.5	38.6	1.81	39.2	1.80	-1.53	0.56
	8/8/2025	21.5	38.7	1.82	39.2	1.80	-1.28	1.11
2600	7/30/2025	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
	8/1/2025	21.5	38.4	1.94	39.0	1.96	-1.54	-1.02
	8/2/2025	21.5	38.3	1.99	39.0	1.96	-1.79	1.53
	8/4/2025	21.5	38.5	1.95	39.0	1.96	-1.28	-0.51
	8/5/2025	21.5	38.2	1.96	39.0	1.96	-2.05	0.00
	8/6/2025	21.5	39.0	1.98	39.0	1.96	0.00	1.02
3500	8/9/2025	21.5	37.1	2.83	37.9	2.91	-2.11	-2.75
	8/10/2025	21.5	37.9	2.85	37.9	2.91	0.00	-2.06
5250	8/11/2025	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
5600	8/12/2025	21.5	34.2	5.21	35.5	5.07	-3.66	2.76
5750	8/13/2025	21.5	34.9	5.21	35.4	5.22	-1.41	-0.19
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm.								

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	9/12/2023	30.4	/	51.9	/	-2.47	/
		9/11/2024	30.12	-0.9	52.3	0.4	-2.46	0.01
Dipole D835V2 SN: 4d020	Head Liquid	9/15/2023	28.3	/	50.6	/	-3.80	/
		9/14/2024	28.9	2.1	51.4	0.8	-3.66	0.14
Dipole D1750V2 SN: 1033	Head Liquid	3/23/2023	36.2	/	51.2	/	-0.98	/
		3/22/2024	35.4	-2.2	51.6	0.4	-1.28	-0.3
		3/21/2025	36.7	3.7	49.8	-1.8	-0.72	0.56
Dipole D1900V2 SN: 5d060	Head Liquid	9/12/2023	24.0	/	50.5	/	6.32	/
		9/11/2024	24.1	0.4	50.9	0.4	6.83	0.51
Dipole D2450V2 SN:786	Head Liquid	9/12/2023	28.2	/	52.2	/	3.34	/
		9/11/2024	28.6	1.4	52.8	0.6	3.43	0.09
Dipole D5GHzV2 (5250 MHz) SN: 1203	Head Liquid	12/9/2022	29.0	/	48.5	/	-3.20	/
		12/8/2023	28.4	-2.1	48.4	-0.1	-3.4	-0.2
		12/7/2024	28.6	0.7	49.3	0.9	-3.37	0.03
Dipole D5GHzV2 (5600 MHz) SN: 1203	Head Liquid	12/9/2022	30.4	/	51.7	/	2.60	/
		12/8/2023	30.5	0.3	51.5	-0.2	2.4	-0.2
		12/7/2024	30.8	1.0	51.9	0.4	2.85	0.45
Dipole D5GHzV2 (5750 MHz) SN: 1203	Head Liquid	12/9/2022	25.3	/	53.6	/	4.30	/
		12/8/2023	25.7	1.6	53.1	-0.5	4.7	0.4
		12/7/2024	26.1	1.6	54.5	1.4	4.62	-0.08

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	8/14/2025	21.5	2.13	8.52	8.47	0.59	1
835	8/15/2025	21.5	2.44	9.76	9.75	0.10	2
1750	7/25/2025	21.5	8.95	35.80	36.80	-2.72	3
	7/26/2025	21.5	9.11	36.44	36.80	-0.98	4
	8/16/2025	21.5	8.96	35.84	36.80	-2.61	5
1900	7/27/2025	21.5	9.88	39.52	40.40	-2.18	6
	7/28/2025	21.5	9.85	39.40	40.40	-2.48	7
	7/29/2025	21.5	9.55	38.20	40.40	-5.45	8
2450	8/7/2025	21.5	13.70	54.80	52.60	4.18	9
	8/8/2025	21.5	13.52	54.08	52.60	2.81	10
2600	7/30/2025	21.5	13.90	55.60	56.10	-0.89	11
	8/1/2025	21.5	13.88	55.52	56.10	-1.03	12
	8/2/2025	21.5	13.94	55.76	56.10	-0.61	13
	8/4/2025	21.5	13.90	55.60	56.10	-0.89	14
	8/5/2025	21.5	13.90	55.60	56.10	-0.89	15
	8/6/2025	21.5	13.85	55.40	56.10	-1.25	16
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	8/9/2025	21.5	6.57	65.70	64.50	1.86	17
	8/10/2025	21.5	6.53	65.30	64.50	1.24	18
5250	8/11/2025	21.5	7.87	78.70	77.70	1.29	19
5600	8/12/2025	21.5	7.67	76.70	80.30	-4.48	20
5750	8/13/2025	21.5	7.66	76.60	76.80	-0.26	21
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
750	2025/05/28	3677	EX3DV4	750	Head	41.9	0.89	PASS	PASS	PASS
835	2025/05/28	3677	EX3DV4	835	Head	41.5	0.90	PASS	PASS	PASS
1750	2025/05/28	3677	EX3DV4	1750	Head	40.1	1.37	PASS	PASS	PASS
1900	2025/05/28	3677	EX3DV4	1900	Head	40.0	1.40	PASS	PASS	PASS
2450	2025/05/28	3677	EX3DV4	2450	Head	39.2	1.80	PASS	PASS	PASS
2600	2025/05/28	3677	EX3DV4	2600	Head	39.0	1.96	PASS	PASS	PASS
3500	2025/05/28	3677	EX3DV4	3500	Head	37.9	2.91	PASS	PASS	PASS
5250	2025/05/28	3677	EX3DV4	5250	Head	35.9	4.71	PASS	PASS	PASS
5600	2025/05/28	3677	EX3DV4	5600	Head	35.5	5.07	PASS	PASS	PASS
5750	2025/05/28	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

All output power measurements for 2G/3G/4G WWAN technologies and bands in this section were performed by setting Reserve_power_margin (Qualcomm® Smart Transmit EFS entry) to 0dB. The details of test scenarios categorization in the table below.

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

GSM 850 Receiver on& Receiver off--Ant1		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	33.50	32.52	32.30	32.24	9.03	24.47	23.49	23.27	23.21
GPRS/ EGPRS (GMSK)	1 Tx Slot	33.50	33.00	32.61	32.88	9.03	24.47	23.97	23.58	23.85
	2 Tx Slots	30.50	29.77	29.65	29.66	6.02	24.48	23.75	23.63	23.64
	3 Tx Slots	28.70	28.08	27.87	28.07	4.26	24.44	23.82	23.61	23.81
	4 Tx Slots	27.00	26.17	26.22	26.39	3.01	23.99	23.16	23.21	23.38
EGPRS (8PSK)	1 Tx Slot	27.50	27.18	26.50	26.93	9.03	18.47	18.15	17.47	17.90
	2 Tx Slots	24.50	23.51	23.38	23.53	6.02	18.48	17.49	17.36	17.51
	3 Tx Slots	22.70	21.60	21.76	21.71	4.26	18.44	17.34	17.50	17.45
	4 Tx Slots	21.50	20.00	20.34	20.13	3.01	18.49	16.99	17.33	17.12
GSM 1900 Receiver on& Receiver off--Ant0		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	30.50	29.65	29.54	29.56	9.03	21.47	20.62	20.51	20.53
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.50	29.68	29.27	29.59	9.03	21.47	20.65	20.24	20.56
	2 Tx Slots	27.50	26.21	26.15	26.39	6.02	21.48	20.19	20.13	20.37
	3 Tx Slots	25.70	24.48	24.60	24.76	4.26	21.44	20.22	20.34	20.50
	4 Tx Slots	24.50	23.51	23.28	23.25	3.01	21.49	20.50	20.27	20.24
EGPRS (8PSK)	1 Tx Slot	26.50	25.61	25.31	25.34	9.03	17.47	16.58	16.28	16.31
	2 Tx Slots	23.50	22.15	22.20	22.14	6.02	17.48	16.13	16.18	16.12
	3 Tx Slots	21.70	20.42	20.59	20.11	4.26	17.44	16.16	16.33	15.85
	4 Tx Slots	20.50	19.22	19.28	18.60	3.01	17.49	16.21	16.27	15.59
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 850 GMSK (GPRS) mode with 2 time slots for Max power, GSM 1900 GMSK (GPRS) mode with 4 time slots for Max power, based on the output power measurements above.										

GSM 850 Hotspot on--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	29.50	28.49	28.33	28.54	9.03	20.47	19.46	19.30	19.51
GPRS/ EGPRS (GMSK)	1 Tx Slot	29.50	28.47	28.42	28.29	9.03	20.47	19.44	19.39	19.26
	2 Tx Slots	26.50	25.29	25.24	25.27	6.02	20.48	19.27	19.22	19.25
	3 Tx Slots	24.70	23.42	23.48	23.59	4.26	20.44	19.16	19.22	19.33
	4 Tx Slots	23.00	22.11	22.20	21.87	3.01	19.99	19.10	19.19	18.86
EGPRS (8PSK)	1 Tx Slot	27.50	26.70	26.69	26.68	9.03	18.47	17.67	17.66	17.65
	2 Tx Slots	24.50	23.70	23.03	23.73	6.02	18.48	17.68	17.01	17.71
	3 Tx Slots	22.70	21.09	21.13	21.21	4.26	18.44	16.83	16.87	16.95
	4 Tx Slots	21.50	20.44	19.96	20.20	3.01	18.49	17.43	16.95	17.19
GSM 1900 Hotspot on--Ant0		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	26.50	25.78	25.49	25.54	9.03	17.47	16.75	16.46	16.51
GPRS/ EGPRS (GMSK)	1 Tx Slot	26.50	25.29	25.21	25.59	9.03	17.47	16.26	16.18	16.56
	2 Tx Slots	23.50	22.34	22.65	22.61	6.02	17.48	16.32	16.63	16.59
	3 Tx Slots	21.70	20.81	20.71	20.91	4.26	17.44	16.55	16.45	16.65
	4 Tx Slots	20.50	19.23	19.31	19.56	3.01	17.49	16.22	16.30	16.55
EGPRS (8PSK)	1 Tx Slot	26.50	25.78	25.51	25.58	9.03	17.47	16.75	16.48	16.55
	2 Tx Slots	23.50	22.18	22.08	22.25	6.02	17.48	16.16	16.06	16.23
	3 Tx Slots	21.70	20.29	20.19	20.02	4.26	17.44	16.03	15.93	15.76
	4 Tx Slots	20.50	19.33	19.46	19.10	3.01	17.49	16.32	16.45	16.09
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 850 GMSK (GPRS) mode with 2 time slots for Max power, GSM 1900 GMSK (GPRS) mode with 4 time slots for Max power, based on the output power measurements above.										

GSM 1900 Receiver on--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	26.50	25.54	25.60	25.58	9.03	17.47	16.51	16.57	16.55
GPRS/ EGPRS (GMSK)	1 Tx Slot	26.50	25.43	25.54	25.39	9.03	17.47	16.40	16.51	16.36
	2 Tx Slots	23.50	22.57	22.42	22.27	6.02	17.48	16.55	16.40	16.25
	3 Tx Slots	21.70	20.63	20.54	20.75	4.26	17.44	16.37	16.28	16.49
	4 Tx Slots	20.00	19.45	19.52	19.62	3.01	16.99	16.44	16.51	16.61
EGPRS (8PSK)	1 Tx Slot	26.50	25.46	24.97	25.39	9.03	17.47	16.43	15.94	16.36
	2 Tx Slots	23.50	21.94	22.31	22.30	6.02	17.48	15.92	16.29	16.28
	3 Tx Slots	21.70	20.34	20.38	20.33	4.26	17.44	16.08	16.12	16.07
	4 Tx Slots	20.00	18.63	18.46	18.45	3.01	16.99	15.62	15.45	15.44
GSM 1900 Receiver off--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	30.00	28.78	28.78	29.04	9.03	20.97	19.75	19.75	20.01
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.00	29.28	29.00	28.98	9.03	20.97	20.25	19.97	19.95
	2 Tx Slots	27.00	25.58	25.89	25.79	6.02	20.98	19.56	19.87	19.77
	3 Tx Slots	25.20	24.08	24.21	24.17	4.26	20.94	19.82	19.95	19.91
	4 Tx Slots	23.50	22.98	23.11	22.99	3.01	20.49	19.97	20.10	19.98
EGPRS (8PSK)	1 Tx Slot	26.50	25.19	24.94	24.99	9.03	17.47	16.16	15.91	15.96
	2 Tx Slots	23.50	22.22	22.09	22.07	6.02	17.48	16.20	16.07	16.05
	3 Tx Slots	21.70	20.16	20.22	20.40	4.26	17.44	15.90	15.96	16.14
	4 Tx Slots	20.50	18.89	19.28	18.91	3.01	17.49	15.88	16.27	15.90
GSM 1900 Hotspot on--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	24.50	23.67	23.59	23.55	9.03	15.47	14.64	14.56	14.52
GPRS/ EGPRS (GMSK)	1 Tx Slot	24.50	23.64	23.41	23.49	9.03	15.47	14.61	14.38	14.46
	2 Tx Slots	21.50	20.79	20.70	20.88	6.02	15.48	14.77	14.68	14.86
	3 Tx Slots	19.70	18.94	18.87	18.94	4.26	15.44	14.68	14.61	14.68
	4 Tx Slots	18.00	17.57	17.62	17.60	3.01	14.99	14.56	14.61	14.59
EGPRS (8PSK)	1 Tx Slot	24.50	23.55	23.28	23.68	9.03	15.47	14.52	14.25	14.65
	2 Tx Slots	21.50	20.18	19.99	20.23	6.02	15.48	14.16	13.97	14.21
	3 Tx Slots	19.70	18.93	18.62	18.48	4.26	15.44	14.67	14.36	14.22
	4 Tx Slots	18.00	17.41	17.71	17.47	3.01	14.99	14.40	14.70	14.46
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 1900 GMSK (GPRS) mode with 2 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(dBm) Receiver on& Receiver off--Ant0				Band IV(dBm) Receiver on& Receiver off--Ant0				Band V(dBm) Receiver on& Receiver off--Ant1			
Tx Channel		9262	9400	9538	Tune-up Limit	1312	1413	1513	Tune-up Limit	4132	4183	4233	Tune-up Limit
Frequency(MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.6	846.6	
RMC	12.2kbps	22.47	22.42	22.27	23.00	22.79	22.68	22.71	23.30	24.31	24.26	24.24	25.00
AMR	12.2kbps	22.55	22.44	22.17	23.00	22.95	22.56	22.77	23.30	24.31	24.34	24.22	25.00
HSDPA	Sub 1	21.69	21.78	21.51	22.20	21.99	21.78	21.87	22.50	22.79	22.64	22.80	23.50
	Sub 2	21.63	21.68	21.53	22.20	21.85	21.88	22.05	22.50	22.85	22.68	22.78	23.50
	Sub 3	21.27	21.20	20.93	21.70	21.57	21.42	21.33	22.00	22.47	22.10	22.28	23.00
	Sub 4	21.19	21.14	20.83	21.70	21.39	21.44	21.39	22.00	22.29	22.30	22.22	23.00
HSUPA	Sub 1	21.53	21.52	21.39	22.20	21.93	21.86	21.81	22.50	22.77	22.90	22.72	23.50
	Sub 2	18.23	18.08	18.03	18.70	18.51	18.50	18.31	19.00	19.29	19.34	19.28	20.00
	Sub 3	19.23	18.98	18.81	19.70	19.65	19.30	19.47	20.00	20.39	20.30	20.24	21.00
	Sub 4	18.31	18.12	18.13	18.70	18.45	18.24	18.37	19.00	19.29	19.40	19.24	20.00
	Sub 5	21.83	21.78	21.33	22.20	21.89	22.04	21.91	22.50	22.89	22.72	22.62	23.50
DC-HSDPA	Sub 1	21.65	21.46	21.51	22.20	21.87	21.92	21.77	22.50	22.89	22.60	22.68	23.50
	Sub 2	21.73	21.54	21.61	22.20	22.13	21.78	21.97	22.50	22.85	22.70	22.80	23.50
	Sub 3	21.31	21.12	20.89	21.70	21.63	21.54	21.41	22.00	22.33	22.40	22.24	23.00
	Sub 4	21.09	21.06	21.13	21.70	21.53	21.28	21.57	22.00	22.47	22.38	22.10	23.00
HSPA+	16QAM	19.44	19.29	19.24	19.80	19.55	19.42	19.41	20.10	21.21	21.02	20.92	21.80

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(dBm) Hotspot on--Ant0				Band IV(dBm) Hotspot on--Ant0				Band V(dBm) Hotspot on--Ant1			
Tx Channel		9262	9400	9538	Tune-up Limit	1312	1413	1513	Tune-up Limit	4132	4183	4233	Tune-up Limit
Frequency(MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.6	846.6	
RMC	12.2kbps	21.03	20.91	20.78	21.50	21.26	21.19	21.13	21.80	22.91	22.88	22.90	23.50
AMR	12.2kbps	20.91	21.03	20.72	21.50	21.16	21.15	21.13	21.80	22.95	23.04	22.80	23.50
HSDPA	Sub 1	20.25	20.23	20.14	20.70	20.56	20.47	20.43	21.00	21.37	21.38	21.56	22.00
	Sub 2	20.39	19.97	20.10	20.70	20.52	20.45	20.25	21.00	21.53	21.32	21.42	22.00
	Sub 3	19.67	19.51	19.40	20.20	19.90	20.01	19.67	20.50	21.07	20.84	20.96	21.50
	Sub 4	19.59	19.67	19.36	20.20	19.90	20.05	19.95	20.50	20.75	20.92	21.06	21.50
HSUPA	Sub 1	20.23	19.99	19.88	20.70	20.46	20.41	20.23	21.00	21.35	21.40	21.48	22.00
	Sub 2	16.89	16.75	16.64	17.20	16.92	16.87	16.81	17.50	17.81	18.04	17.94	18.50
	Sub 3	17.73	17.67	17.36	18.20	18.02	17.83	17.75	18.50	18.89	18.76	18.80	19.50
	Sub 4	16.69	16.53	16.48	17.20	17.04	16.89	16.79	17.50	17.81	17.76	17.92	18.50
	Sub 5	20.27	20.17	20.10	20.70	20.56	20.51	20.49	21.00	21.51	21.36	21.50	22.00
DC-HSDPA	Sub 1	20.29	20.13	19.98	20.70	20.34	20.27	20.17	21.00	21.37	21.24	21.26	22.00
	Sub 2	20.11	19.95	20.00	20.70	20.44	20.29	20.39	21.00	21.51	21.32	21.48	22.00
	Sub 3	19.57	19.51	19.52	20.20	20.06	19.99	19.71	20.50	20.77	21.00	20.96	21.50
	Sub 4	19.65	19.49	19.62	20.20	20.08	19.89	19.71	20.50	20.99	20.98	20.78	21.50
HSPA+	16QAM	18.12	18.02	17.71	18.30	18.04	18.03	18.05	18.60	19.55	19.80	19.54	20.30

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(dBm) Receiver off--Ant2				Band IV(dBm) Receiver off--Ant2			
Tx Channel		9262	9400	9538	Tune-up Limit	1312	1413	1513	Tune-up Limit
Frequency(MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
RMC	12.2kbps	21.66	21.96	21.68	22.50	22.03	21.95	22.00	22.80
AMR	12.2kbps	21.54	21.82	21.80	22.50	22.07	22.07	22.06	22.80
HSDPA	Sub 1	20.82	21.30	20.82	21.70	21.27	21.13	21.20	22.00
	Sub 2	20.98	21.32	20.98	21.70	21.11	21.09	21.08	22.00
	Sub 3	20.44	20.72	20.48	21.20	20.73	20.67	20.60	21.50
	Sub 4	20.36	20.70	20.38	21.20	20.81	20.79	20.70	21.50
HSUPA	Sub 1	20.92	21.22	20.76	21.70	21.23	21.11	21.24	21.50
	Sub 2	17.34	17.72	17.26	18.20	17.61	17.63	17.86	18.50
	Sub 3	18.28	18.66	18.38	19.20	18.57	18.65	18.70	19.50
	Sub 4	17.38	17.78	17.24	18.20	17.89	17.75	17.76	18.50
	Sub 5	20.70	21.26	20.90	21.70	21.15	21.25	21.14	22.00
DC-HSDPA	Sub 1	20.90	21.12	20.96	21.70	21.09	21.15	21.36	22.00

	Sub 2	20.96	21.00	20.92	21.70	21.35	21.03	21.22	22.00
	Sub 3	20.40	20.78	20.52	21.20	20.67	20.81	20.78	21.50
	Sub 4	20.22	20.62	20.26	21.20	20.65	20.79	20.70	21.50

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(dBm) Receiver off--Ant2				Band IV(dBm) Receiver off--Ant2			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit
RMC	12.2kbps	21.66	21.96	21.68	22.50	22.03	21.95	22.00	22.80
AMR	12.2kbps	21.54	21.82	21.80	22.50	22.07	22.07	22.06	22.80
HSDPA	Sub 1	20.82	21.30	20.82	21.70	21.27	21.13	21.20	22.00
	Sub 2	20.98	21.32	20.98	21.70	21.11	21.09	21.08	22.00
	Sub 3	20.44	20.72	20.48	21.20	20.73	20.67	20.60	21.50
	Sub 4	20.36	20.70	20.38	21.20	20.81	20.79	20.70	21.50
HSUPA	Sub 1	20.92	21.22	20.76	21.70	21.23	21.11	21.24	21.50
	Sub 2	17.34	17.72	17.26	18.20	17.61	17.63	17.86	18.50
	Sub 3	18.28	18.66	18.38	19.20	18.57	18.65	18.70	19.50
	Sub 4	17.38	17.78	17.24	18.20	17.89	17.75	17.76	18.50
	Sub 5	20.70	21.26	20.90	21.70	21.15	21.25	21.14	22.00
DC-HSDPA	Sub 1	20.90	21.12	20.96	21.70	21.09	21.15	21.36	22.00
	Sub 2	20.96	21.00	20.92	21.70	21.35	21.03	21.22	22.00
	Sub 3	20.40	20.78	20.52	21.20	20.67	20.81	20.78	21.50
	Sub 4	20.22	20.62	20.26	21.20	20.65	20.79	20.70	21.50

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(dBm) Receiver on--Ant2				Band IV(dBm) Receiver on--Ant2			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit
RMC	12.2kbps	16.29	16.55	16.25	17.00	18.27	18.30	18.21	19.00
AMR	12.2kbps	16.25	16.57	16.35	17.00	18.17	18.46	18.05	19.00
HSDPA	Sub 1	15.55	15.89	15.43	16.20	17.31	17.66	17.57	18.20
	Sub 2	15.49	15.81	15.47	16.20	17.37	17.44	17.35	18.20
	Sub 3	14.87	15.27	14.89	15.70	17.01	16.98	16.87	17.70
	Sub 4	14.93	15.37	14.81	15.70	17.09	17.16	16.99	17.70
HSUPA	Sub 1	15.43	15.91	15.59	16.20	17.49	17.52	17.49	17.70
	Sub 2	12.07	12.11	12.03	12.70	13.95	13.90	14.03	14.70

DC-HSDPA	Sub 3	12.99	13.11	13.07	13.70	15.11	15.06	15.03	15.70
	Sub 4	11.93	12.33	12.03	12.70	14.07	13.94	13.81	14.70
	Sub 5	15.61	15.61	15.57	16.20	17.35	17.54	17.29	18.20
	Sub 1	15.47	15.79	15.43	16.20	17.37	17.48	17.41	18.20
DC-HSDPA	Sub 2	15.65	15.73	15.35	16.20	17.47	17.58	17.53	18.20
	Sub 3	14.95	15.37	15.05	15.70	16.87	17.02	16.97	17.70
	Sub 4	14.91	15.33	14.87	15.70	17.05	16.86	16.87	17.70
	Sub 1	15.47	15.79	15.43	16.20	17.37	17.48	17.41	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 II(dBm) Hotspot on--Ant2				Band IV(dBm) Hotspot on--Ant2			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit
RMC	12.2kbps	14.17	14.41	14.05	15.00	16.42	16.25	16.27	17.00
AMR	12.2kbps	14.25	14.41	14.03	15.00	16.56	16.29	16.25	17.00
HSDPA	Sub 1	13.47	13.73	13.35	14.20	15.56	15.43	15.63	16.20
	Sub 2	13.47	13.61	13.15	14.20	15.50	15.53	15.57	16.20
	Sub 3	12.73	13.01	12.61	13.70	15.18	14.95	15.05	15.70
	Sub 4	12.91	12.95	12.71	13.70	15.20	14.85	14.85	15.70
HSUPA	Sub 1	13.43	13.71	13.23	14.20	15.46	15.51	15.49	15.70
	Sub 2	9.93	10.21	9.79	10.70	12.20	11.95	12.03	12.70
	Sub 3	10.75	11.17	10.75	11.70	12.98	12.81	12.83	13.70
	Sub 4	9.85	10.01	9.61	10.70	12.14	11.97	12.11	12.70
	Sub 5	13.47	13.51	13.25	14.20	15.60	15.35	15.39	16.20
DC-HSDPA	Sub 1	13.39	13.61	13.25	14.20	15.70	15.41	15.57	16.20
	Sub 2	13.35	13.45	13.31	14.20	15.58	15.57	15.31	16.20
	Sub 3	12.77	13.13	12.81	13.70	15.00	14.89	15.05	15.70
	Sub 4	12.87	13.13	12.83	13.70	15.08	15.01	15.11	15.70

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".

LTE Band 2								-IE-01-S1
Receiver on& Receiver off--Ant0				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	21.86	21.85	21.90	23.00	
		1	2	21.95	21.68	22.00	23.00	
		1	5	21.30	21.95	21.51	23.00	
		3	0	21.84	21.50	21.96	23.00	
		3	2	21.60	22.14	21.79	23.00	
		3	3	21.64	22.20	21.96	23.00	
		6	0	21.49	21.82	21.87	23.00	
	16QAM	1	0	22.12	21.73	22.10	23.00	
		1	2	22.08	21.94	21.91	23.00	
		1	5	21.69	22.33	21.76	23.00	
		3	0	21.14	21.52	21.58	23.00	
		3	2	21.16	21.41	21.44	23.00	
		3	3	21.35	21.34	21.52	23.00	
		6	0	21.38	21.32	21.38	23.00	
	64QAM	1	0	21.54	21.13	21.72	22.50	
		1	2	21.25	21.61	21.29	22.50	
		1	5	21.33	21.50	21.52	22.50	
		3	0	21.44	21.07	21.60	22.50	
		3	2	21.39	21.77	21.19	22.50	
		3	3	21.23	21.40	21.68	22.50	
		6	0	20.26	20.19	20.29	21.50	
	256QAM	1	0	18.08	18.28	18.36	19.50	
		1	2	18.26	18.24	18.24	19.50	
		1	5	18.19	18.31	17.67	19.50	
		3	0	17.97	18.25	18.17	19.50	
		3	2	18.45	18.65	18.05	19.50	
		3	3	18.31	18.29	18.13	19.50	
		6	0	18.23	18.33	18.35	19.50	
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up	
				18615/1851.5	18900/1880	19185/1908.5		
3MHz	QPSK	1	0	21.84	21.91	22.14	23.00	
		1	7	21.67	21.86	21.98	23.00	
		1	14	21.40	21.95	21.67	23.00	
		8	0	21.76	21.68	21.86	23.00	
		8	4	21.76	22.02	22.05	23.00	
		8	7	21.76	21.92	21.80	23.00	
		15	0	21.69	21.76	21.95	23.00	
	16QAM	1	0	22.08	21.83	22.22	23.00	
		1	7	21.92	22.20	22.25	23.00	
		1	14	21.85	22.21	21.82	23.00	
		8	0	21.16	21.42	21.38	22.50	
		8	4	21.14	21.47	21.44	22.50	

		8	7	21.09	21.52	21.60	22.50
		15	0	21.26	21.46	21.42	22.50
	64QAM	1	0	21.56	21.23	21.64	22.50
		1	7	21.17	21.49	21.71	22.50
		1	14	21.17	21.54	21.64	22.50
		8	0	20.28	20.25	20.31	21.50
		8	4	20.34	20.51	20.44	21.50
		8	7	20.33	20.63	20.59	21.50
		15	0	20.22	20.53	20.35	21.50
	256QAM	1	0	17.96	18.22	18.42	19.50
		1	7	18.16	18.32	18.30	19.50
		1	14	18.15	18.21	17.75	19.50
		8	0	18.03	18.25	18.21	19.50
		8	4	18.51	18.55	18.09	19.50
		8	7	18.43	18.29	18.23	19.50
		15	0	18.09	18.21	18.25	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.94	21.63	21.84	23.00
		1	13	21.67	21.88	21.74	23.00
		1	24	21.44	22.01	21.71	23.00
		12	0	21.66	21.74	21.76	23.00
		12	6	21.66	22.02	21.85	23.00
		12	13	21.60	21.90	21.72	23.00
		25	0	21.69	21.90	21.85	23.00
	16QAM	1	0	22.10	21.85	22.18	23.00
		1	13	21.72	22.00	21.97	23.00
		1	24	21.79	22.01	21.76	23.00
		12	0	21.04	21.12	21.54	22.50
		12	6	21.20	21.35	21.32	22.50
		12	13	21.21	21.54	21.32	22.50
		25	0	21.26	21.54	21.50	22.50
	64QAM	1	0	21.62	21.27	21.58	22.50
		1	13	21.19	21.63	21.55	22.50
		1	24	21.15	21.48	21.44	22.50
		12	0	20.16	20.17	20.31	21.50
		12	6	20.26	20.45	20.20	21.50
		12	13	20.01	20.63	20.49	21.50
		25	0	20.18	20.61	20.43	21.50
	256QAM	1	0	18.32	18.36	18.26	19.50
		1	13	18.10	18.22	18.10	19.50
		1	24	18.11	18.21	18.09	19.50
		12	0	18.35	18.21	18.13	19.50

		12	6	18.27	18.31	18.27	19.50
		12	13	18.17	18.15	18.23	19.50
		25	0	18.27	18.21	18.43	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.08	21.97	22.06	23.00
		1	25	21.73	22.00	21.74	23.00
		1	49	21.48	21.97	21.85	23.00
		25	0	21.94	21.78	21.78	23.00
		25	13	21.70	22.10	21.85	23.00
		25	25	21.54	21.88	21.78	23.00
		50	0	21.85	21.90	21.67	23.00
	16QAM	1	0	22.10	21.99	22.06	23.00
		1	25	21.80	22.24	22.09	23.00
		1	49	21.99	22.13	21.92	23.00
		25	0	21.12	21.48	21.34	22.50
		25	13	21.38	21.57	21.68	22.50
		25	25	21.37	21.32	21.70	22.50
		50	0	21.48	21.54	21.42	22.50
	64QAM	1	0	21.70	21.19	21.76	22.50
		1	25	21.11	21.69	21.65	22.50
		1	49	20.97	21.80	21.50	22.50
		25	0	20.12	20.09	20.23	21.50
		25	13	20.36	20.29	20.20	21.50
		25	25	20.07	20.55	20.47	21.50
		50	0	20.24	20.37	20.37	21.50
	256QAM	1	0	18.16	18.26	18.14	19.50
		1	25	18.18	18.10	18.12	19.50
		1	49	17.85	18.09	17.99	19.50
		25	0	18.05	18.19	18.19	19.50
		25	13	18.21	18.21	18.23	19.50
		25	25	18.19	18.09	18.13	19.50
		50	0	18.21	18.13	18.17	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.86	21.75	22.18	23.00
		1	38	21.55	22.06	21.84	23.00
		1	74	21.54	21.87	21.85	23.00
		36	0	21.78	21.78	21.90	23.00
		36	18	21.70	21.80	22.05	23.00
		36	39	21.56	21.88	21.92	23.00
		75	0	21.79	21.82	22.01	23.00
	16QAM	1	0	22.10	21.75	22.10	23.00

		1	38	21.78	22.26	22.25	23.00
		1	74	21.95	22.13	21.78	23.00
		36	0	21.16	21.34	21.42	22.50
		36	18	21.38	21.63	21.54	22.50
		36	39	21.19	21.38	21.56	22.50
		75	0	21.32	21.38	21.44	22.50
	64QAM	1	0	21.42	21.21	21.80	22.50
		1	38	21.27	21.71	21.53	22.50
		1	74	21.09	21.72	21.64	22.50
		36	0	20.26	20.21	20.33	21.50
		36	18	20.38	20.53	20.28	21.50
		36	39	20.09	20.71	20.45	21.50
		75	0	20.34	20.47	20.33	21.50
	256QAM	1	0	18.34	18.36	18.12	19.50
		1	38	18.16	18.10	18.22	19.50
		1	74	18.11	17.99	18.27	19.50
		36	0	18.21	18.29	18.19	19.50
		36	18	18.15	18.23	18.17	19.50
		36	39	18.15	18.29	18.09	19.50
		75	0	18.13	18.11	18.19	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.86	21.75	22.00	23.00
		1	50	21.61	21.88	21.88	23.00
		1	99	21.50	21.93	21.71	23.00
		50	0	21.74	21.72	21.84	23.00
		50	25	21.72	22.03	21.91	23.00
		50	50	21.66	21.92	21.90	23.00
		100	0	21.73	21.86	21.83	23.00
	16QAM	1	0	22.02	21.81	22.14	23.00
		1	50	21.90	22.10	22.15	23.00
		1	99	21.81	22.13	21.76	23.00
		50	0	21.24	21.26	21.46	22.50
		50	25	21.22	21.45	21.50	22.50
		50	50	21.17	21.48	21.48	22.50
		100	0	21.26	21.44	21.44	22.50
	64QAM	1	0	21.54	21.25	21.74	22.50
		1	50	21.19	21.53	21.55	22.50
		1	99	21.15	21.64	21.48	22.50
		50	0	20.22	20.27	20.37	21.50
		50	25	20.28	20.45	20.38	21.50
		50	50	20.17	20.57	20.47	21.50
		100	0	20.24	20.53	20.43	21.50

	256QAM	1	0	18.34	18.36	18.16	19.50
		1	50	18.32	18.22	18.08	19.50
		1	99	17.95	17.97	17.95	19.50
		50	0	18.19	18.31	18.19	19.50
		50	25	18.41	18.23	18.37	19.50
		50	50	18.13	18.13	18.29	19.50
		100	0	18.31	18.17	18.19	19.50
LTE Band 2							
Hotspot on--Ant0				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	20.29	20.28	20.92	21.50
		1	2	20.15	20.66	20.55	21.50
		1	5	19.92	20.45	20.56	21.50
		3	0	20.48	20.19	20.44	21.50
		3	2	20.24	20.48	20.51	21.50
		3	3	20.17	20.66	20.62	21.50
		6	0	20.07	20.51	20.43	21.50
	16QAM	1	0	20.66	20.43	21.01	21.50
		1	2	20.45	20.84	20.67	21.50
		1	5	20.53	20.60	20.62	21.50
		3	0	20.36	20.47	20.64	21.50
		3	2	20.22	20.37	20.79	21.50
		3	3	20.28	20.53	20.60	21.50
		6	0	20.30	20.45	20.69	21.50
	64QAM	1	0	20.58	20.64	20.62	21.50
		1	2	20.37	20.84	20.85	21.50
		1	5	20.22	20.51	20.46	21.50
		3	0	20.38	20.31	20.68	21.50
		3	2	20.08	20.28	20.72	21.50
		3	3	20.34	20.40	20.64	21.50
		6	0	20.17	20.67	20.58	21.50
	256QAM	1	0	18.57	18.43	18.41	19.50
		1	2	18.56	18.60	18.44	19.50
		1	5	18.52	18.32	18.68	19.50
		3	0	18.46	18.06	18.40	19.50
		3	2	18.21	18.11	18.03	19.50
		3	3	18.31	18.21	18.41	19.50
		6	0	17.97	18.55	18.13	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	20.37	20.16	20.76	21.50
		1	7	20.25	20.62	20.37	21.50

		1	14	20.02	20.39	20.40	21.50
		8	0	20.44	20.29	20.52	21.50
		8	4	20.22	20.50	20.63	21.50
		8	7	20.11	20.58	20.70	21.50
		15	0	20.17	20.35	20.51	21.50
	16QAM	1	0	20.60	20.33	20.95	21.50
		1	7	20.41	20.76	20.69	21.50
		1	14	20.47	20.60	20.52	21.50
		8	0	20.46	20.29	20.66	21.50
		8	4	20.30	20.45	20.63	21.50
		8	7	20.10	20.61	20.46	21.50
		15	0	20.40	20.47	20.61	21.50
	64QAM	1	0	20.52	20.54	20.74	21.50
		1	7	20.19	20.76	20.93	21.50
		1	14	20.18	20.37	20.48	21.50
		8	0	20.38	20.23	20.64	21.50
		8	4	20.18	20.40	20.66	21.50
		8	7	20.34	20.48	20.64	21.50
		15	0	20.21	20.51	20.64	21.50
	256QAM	1	0	18.41	18.29	18.39	19.50
		1	7	18.58	18.68	18.56	19.50
		1	14	18.36	18.30	18.54	19.50
		8	0	18.28	18.16	18.38	19.50
		8	4	18.21	18.21	18.09	19.50
		8	7	18.23	18.19	18.27	19.50
		15	0	17.93	18.39	18.13	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	20.27	20.30	20.72	21.50
		1	13	19.97	20.50	20.41	21.50
		1	24	20.12	20.27	20.28	21.50
		12	0	20.46	20.35	20.52	21.50
		12	6	20.02	20.54	20.55	21.50
		12	13	20.21	20.58	20.34	21.50
		25	0	20.09	20.31	20.31	21.50
	16QAM	1	0	20.46	20.37	20.69	21.50
		1	13	20.53	20.76	20.57	21.50
		1	24	20.33	20.46	20.52	21.50
		12	0	20.42	20.21	20.40	21.50
		12	6	20.20	20.47	20.63	21.50
		12	13	20.20	20.59	20.56	21.50
		25	0	20.42	20.53	20.33	21.50
	64QAM	1	0	20.46	20.36	20.64	21.50

		1	13	20.35	20.48	20.59	21.50
		1	24	20.26	20.33	20.46	21.50
		12	0	20.18	20.13	20.56	21.50
		12	6	20.18	20.50	20.66	21.50
		12	13	20.26	20.44	20.40	21.50
		25	0	20.31	20.43	20.38	21.50
	256QAM	1	0	18.43	18.53	18.49	19.50
		1	13	18.50	18.40	18.60	19.50
		1	24	18.34	18.32	18.50	19.50
		12	0	18.40	18.44	18.26	19.50
		12	6	18.15	18.23	18.35	19.50
		12	13	18.27	18.33	18.11	19.50
		25	0	18.13	18.19	18.29	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	20.49	20.30	20.48	21.50
		1	25	20.29	20.68	20.65	21.50
		1	49	19.94	20.41	20.48	21.50
		25	0	20.48	20.21	20.38	21.50
		25	13	20.26	20.54	20.45	21.50
		25	25	20.21	20.52	20.56	21.50
		50	0	20.47	20.41	20.59	21.50
	16QAM	1	0	20.50	20.19	20.83	21.50
		1	25	20.49	20.72	20.65	21.50
		1	49	20.59	20.52	20.46	21.50
		25	0	20.32	20.25	20.34	21.50
		25	13	20.30	20.73	20.65	21.50
		25	25	20.42	20.63	20.68	21.50
		50	0	20.26	20.49	20.43	21.50
	64QAM	1	0	20.54	20.66	20.76	21.50
		1	25	20.31	20.76	20.75	21.50
		1	49	20.04	20.51	20.52	21.50
		25	0	20.44	20.29	20.52	21.50
		25	13	20.06	20.34	20.66	21.50
		25	25	20.26	20.46	20.66	21.50
		50	0	20.43	20.31	20.32	21.50
	256QAM	1	0	18.37	18.37	18.53	19.50
		1	25	18.32	18.48	18.44	19.50
		1	49	18.32	18.20	18.22	19.50
		25	0	18.26	18.40	18.20	19.50
		25	13	18.27	18.05	18.33	19.50
		25	25	17.99	18.25	17.99	19.50
		50	0	18.17	18.11	18.27	19.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	20.35	20.16	20.80	21.50
		1	38	20.13	20.64	20.53	21.50
		1	74	20.20	20.41	20.24	21.50
		36	0	20.52	20.19	20.54	21.50
		36	18	20.30	20.68	20.45	21.50
		36	39	20.11	20.54	20.58	21.50
		75	0	20.39	20.47	20.57	21.50
	16QAM	1	0	20.60	20.27	20.93	21.50
		1	38	20.65	20.76	20.85	21.50
		1	74	20.51	20.50	20.72	21.50
		36	0	20.40	20.45	20.50	21.50
		36	18	20.12	20.65	20.69	21.50
		36	39	20.36	20.57	20.74	21.50
		75	0	20.22	20.47	20.47	21.50
	64QAM	1	0	20.52	20.34	20.66	21.50
		1	38	20.41	20.70	20.87	21.50
		1	74	20.18	20.35	20.60	21.50
		36	0	20.28	20.45	20.68	21.50
		36	18	20.26	20.62	20.54	21.50
		36	39	20.10	20.50	20.70	21.50
		75	0	20.45	20.61	20.64	21.50
	256QAM	1	0	18.35	18.39	18.29	19.50
		1	38	18.64	18.56	18.50	19.50
		1	74	18.54	18.34	18.58	19.50
		36	0	18.24	18.34	18.18	19.50
		36	18	18.23	18.21	18.21	19.50
		36	39	18.39	18.29	18.35	19.50
		75	0	18.19	18.43	18.23	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	20.47	20.22	20.66	21.50
		1	50	20.13	20.54	20.47	21.50
		1	99	20.08	20.45	20.28	21.50
		50	0	20.36	20.31	20.50	21.50
		50	25	20.22	20.50	20.57	21.50
		50	50	20.17	20.52	20.54	21.50
		100	0	20.27	20.43	20.45	21.50
	16QAM	1	0	20.60	20.33	20.81	21.50
		1	50	20.51	20.68	20.77	21.50
		1	99	20.37	20.60	20.58	21.50
		50	0	20.40	20.31	20.50	21.50

		50	25	20.20	20.51	20.61	21.50
		50	50	20.20	20.53	20.56	21.50
		100	0	20.32	20.47	20.45	21.50
	64QAM	1	0	20.62	20.44	20.70	21.50
		1	50	20.29	20.68	20.77	21.50
		1	99	20.18	20.45	20.54	21.50
		50	0	20.38	20.33	20.52	21.50
		50	25	20.20	20.50	20.58	21.50
		50	50	20.20	20.52	20.54	21.50
		100	0	20.29	20.47	20.50	21.50
		256QAM	1	0	18.35	18.45	18.49
	1		50	18.52	18.50	18.58	19.50
	1		99	18.46	18.32	18.48	19.50
	50		0	18.48	18.36	18.46	19.50
	50		25	18.39	18.29	18.15	19.50
50	50		18.27	18.13	18.17	19.50	
100	0		18.19	18.29	18.11	19.50	
LTE Band 2							
Receiver on--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	16.60	16.16	16.23	17.50
		1	2	16.16	16.54	16.41	17.50
		1	5	16.16	16.29	16.28	17.50
		3	0	16.38	16.34	16.33	17.50
		3	2	16.16	16.64	16.51	17.50
		3	3	15.88	16.54	16.28	17.50
		6	0	16.27	16.58	16.35	17.50
	16QAM	1	0	16.82	16.61	16.48	17.50
		1	2	16.17	16.75	16.61	17.50
		1	5	16.33	16.66	16.45	17.50
		3	0	16.54	16.32	16.10	17.50
		3	2	15.99	16.73	16.46	17.50
		3	3	16.05	16.45	16.24	17.50
		6	0	16.10	16.38	16.03	17.50
	64QAM	1	0	17.03	16.51	16.47	17.50
		1	2	16.36	16.88	16.52	17.50
		1	5	16.17	16.68	16.22	17.50
		3	0	16.47	16.50	16.13	17.50
		3	2	16.13	16.56	16.16	17.50
		3	3	16.22	16.58	16.49	17.50
		6	0	16.26	16.57	16.38	17.50
	256QAM	1	0	16.25	16.53	16.49	17.50

		1	2	16.26	16.84	16.50	17.50
		1	5	16.26	15.90	16.38	17.50
		3	0	15.87	16.01	16.31	17.50
		3	2	16.24	16.18	16.34	17.50
		3	3	16.57	16.21	16.47	17.50
		6	0	16.20	16.12	16.46	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	16.70	16.30	16.09	17.50
		1	7	15.98	16.52	16.31	17.50
		1	14	16.16	16.55	16.08	17.50
		8	0	16.28	16.34	16.15	17.50
		8	4	16.18	16.58	16.33	17.50
		8	7	16.18	16.50	16.32	17.50
		15	0	16.41	16.48	16.35	17.50
	16QAM	1	0	16.84	16.61	16.42	17.50
		1	7	16.19	16.83	16.53	17.50
		1	14	16.21	16.42	16.47	17.50
		8	0	16.30	16.20	16.28	17.50
		8	4	16.23	16.63	16.36	17.50
		8	7	15.97	16.35	16.32	17.50
		15	0	16.22	16.36	16.09	17.50
	64QAM	1	0	16.79	16.31	16.25	17.50
		1	7	16.24	16.68	16.60	17.50
		1	14	16.05	16.56	16.26	17.50
		8	0	16.37	16.44	16.15	17.50
		8	4	16.15	16.44	16.24	17.50
		8	7	16.18	16.40	16.53	17.50
		15	0	16.18	16.53	16.14	17.50
	256QAM	1	0	16.33	16.41	16.39	17.50
		1	7	16.32	16.74	16.62	17.50
		1	14	16.20	15.88	16.34	17.50
		8	0	15.89	15.93	16.27	17.50
		8	4	16.16	16.02	16.36	17.50
		8	7	16.43	16.11	16.45	17.50
		15	0	16.26	15.98	16.44	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	16.76	16.30	16.35	17.50
		1	13	16.20	16.80	16.37	17.50
		1	24	16.32	16.79	16.08	17.50
		12	0	16.68	16.44	16.27	17.50
		12	6	16.36	16.80	16.37	17.50

		12	13	16.38	16.60	16.52	17.50
		25	0	16.31	16.60	16.43	17.50
	16QAM	1	0	16.90	16.79	16.68	17.50
		1	13	16.51	16.75	16.83	17.50
		1	24	16.59	16.78	16.67	17.50
		12	0	16.64	16.38	16.46	17.50
		12	6	16.25	16.63	16.44	17.50
		12	13	16.31	16.71	16.68	17.50
		25	0	16.44	16.58	16.41	17.50
		1	0	17.03	16.71	16.51	17.50
	64QAM	1	13	16.52	16.74	16.64	17.50
		1	24	16.35	16.86	16.40	17.50
		12	0	16.49	16.64	16.41	17.50
		12	6	16.27	16.66	16.50	17.50
		12	13	16.22	16.64	16.53	17.50
		25	0	16.24	16.47	16.38	17.50
		1	0	16.63	16.51	16.59	17.50
	256QAM	1	13	16.70	16.86	16.76	17.50
		1	24	16.46	16.48	16.34	17.50
		12	0	16.45	16.31	16.43	17.50
		12	6	16.52	16.44	16.46	17.50
		12	13	16.55	16.65	16.63	17.50
		25	0	16.64	16.58	16.66	17.50
		1	0	16.63	16.51	16.59	17.50
		1	13	16.70	16.86	16.76	17.50
		1	24	16.46	16.48	16.34	17.50
		12	0	16.45	16.31	16.43	17.50
		12	6	16.52	16.44	16.46	17.50
		12	13	16.55	16.65	16.63	17.50
		25	0	16.64	16.58	16.66	17.50
		1	0	16.63	16.51	16.59	17.50
		1	13	16.70	16.86	16.76	17.50
		1	24	16.46	16.48	16.34	17.50
		12	0	16.45	16.31	16.43	17.50
		12	6	16.52	16.44	16.46	17.50
		12	13	16.55	16.65	16.63	17.50
		25	0	16.64	16.58	16.66	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	16.80	16.24	16.19	17.50
		1	25	16.18	16.44	16.41	17.50
		1	49	16.16	16.25	16.10	17.50
		25	0	16.32	16.26	16.27	17.50
		25	13	16.14	16.44	16.33	17.50
		25	25	16.24	16.46	16.46	17.50
		50	0	16.33	16.62	16.23	17.50
	16QAM	1	0	16.74	16.75	16.26	17.50
		1	25	16.23	16.69	16.71	17.50
		1	49	16.21	16.74	16.43	17.50
		25	0	16.32	16.10	16.08	17.50
		25	13	16.27	16.63	16.32	17.50
		25	25	16.19	16.43	16.22	17.50
		50	0	16.18	16.36	16.03	17.50
	64QAM	1	0	16.67	16.29	16.19	17.50
		1	25	16.42	16.54	16.58	17.50
		1	49	16.25	16.46	16.30	17.50
		25	0	16.37	16.44	16.13	17.50

		25	13	16.21	16.64	16.50	17.50
		25	25	16.12	16.28	16.23	17.50
		50	0	16.12	16.53	16.32	17.50
	256QAM	1	0	16.27	16.39	16.17	17.50
		1	25	16.56	16.34	16.52	17.50
		1	49	16.10	16.10	16.06	17.50
		25	0	16.23	16.03	16.07	17.50
		25	13	16.22	16.22	16.24	17.50
		25	25	16.31	16.41	16.31	17.50
		50	0	16.10	16.04	16.20	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	16.96	16.42	16.57	17.50
		1	38	16.22	16.92	16.39	17.50
		1	74	16.38	16.61	16.32	17.50
		36	0	16.70	16.54	16.47	17.50
		36	18	16.44	16.68	16.73	17.50
		36	39	16.30	16.76	16.66	17.50
		75	0	16.57	16.84	16.55	17.50
	16QAM	1	0	17.20	16.89	16.60	17.50
		1	38	16.31	16.87	16.85	17.50
		1	74	16.61	16.90	16.51	17.50
		36	0	16.80	16.70	16.34	17.50
		36	18	16.45	16.67	16.64	17.50
		36	39	16.33	16.63	16.72	17.50
		75	0	16.38	16.60	16.43	17.50
	64QAM	1	0	16.93	16.85	16.65	17.50
		1	38	16.50	16.88	16.92	17.50
		1	74	16.35	16.88	16.62	17.50
		36	0	16.71	16.54	16.49	17.50
		36	18	16.43	16.78	16.70	17.50
		36	39	16.26	16.62	16.81	17.50
		75	0	16.50	16.71	16.38	17.50
	256QAM	1	0	16.59	16.59	16.69	17.50
		1	38	16.64	16.80	16.98	17.50
		1	74	16.50	16.62	16.48	17.50
		36	0	16.33	16.37	16.33	17.50
		36	18	16.74	16.36	16.72	17.50
		36	39	16.85	16.65	16.85	17.50
		75	0	16.34	16.60	16.62	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	16.90	16.44	16.43	17.50

		1	50	16.30	16.80	16.45	17.50	
		1	99	16.36	16.69	16.28	17.50	
		50	0	16.64	16.56	16.43	17.50	
		50	25	16.44	16.95	16.57	17.50	
		50	50	16.32	16.68	16.60	17.50	
		100	0	16.51	16.80	16.49	17.50	
		16QAM	1	0	17.10	16.83	16.70	17.50
			1	50	16.41	16.95	16.85	17.50
			1	99	16.51	16.78	16.57	17.50
			50	0	16.64	16.52	16.38	17.50
			50	25	16.39	16.77	16.58	17.50
			50	50	16.31	16.71	16.60	17.50
	64QAM	100	0	16.48	16.66	16.45	17.50	
		1	0	17.03	16.67	16.61	17.50	
		1	50	16.54	16.82	16.78	17.50	
		1	99	16.31	16.86	16.44	17.50	
		50	0	16.61	16.58	16.41	17.50	
		50	25	16.41	16.76	16.54	17.50	
	256QAM	50	50	16.28	16.70	16.63	17.50	
		100	0	16.44	16.65	16.50	17.50	
		1	0	16.63	16.79	16.67	17.50	
		1	50	16.82	16.78	16.96	17.50	
		1	99	16.34	16.52	16.48	17.50	
		50	0	16.35	16.29	16.39	17.50	
		50	25	16.72	16.64	16.58	17.50	
		50	50	16.65	16.53	16.81	17.50	
	100	0	16.60	16.38	16.54	17.50		
LTE Band 2								
Receiver off--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	22.05	21.85	22.01	23.00	
		1	2	21.41	21.99	21.91	23.00	
		1	5	21.82	21.99	21.79	23.00	
		3	0	21.89	22.03	21.64	23.00	
		3	2	21.83	22.09	21.85	23.00	
		3	3	21.44	21.76	21.97	23.00	
		6	0	21.73	21.83	21.59	23.00	
	16QAM	1	0	22.51	21.95	21.92	23.00	
		1	2	21.66	22.43	22.62	23.00	
		1	5	21.87	21.85	21.81	23.00	
		3	0	22.61	21.91	22.00	23.00	
		3	2	21.60	22.61	22.80	23.00	

		3	3	21.85	21.87	21.85	23.00
		6	0	21.01	21.12	20.87	22.00
	64QAM	1	0	21.10	21.01	21.17	22.00
		1	2	20.95	21.70	21.06	22.00
		1	5	20.91	21.18	21.16	22.00
		3	0	21.00	20.99	21.39	22.00
		3	2	20.79	21.56	20.88	22.00
		3	3	20.73	21.06	21.00	22.00
		6	0	20.04	19.95	20.15	21.00
	256QAM	1	0	17.96	18.28	17.94	19.00
		1	2	18.43	18.47	18.25	19.00
		1	5	18.27	17.93	18.15	19.00
		3	0	18.19	18.19	17.95	19.00
		3	2	17.92	17.76	17.76	19.00
		3	3	17.66	17.56	17.80	19.00
		6	0	17.46	17.46	17.78	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	22.09	21.85	21.81	23.00
		1	7	21.65	22.01	22.03	23.00
		1	14	21.52	21.91	21.73	23.00
		8	0	21.87	22.01	21.88	23.00
		8	4	21.63	22.13	21.91	23.00
		8	7	21.44	22.04	22.11	23.00
		15	0	21.83	22.01	21.93	23.00
	16QAM	1	0	22.31	22.19	22.12	23.00
		1	7	21.96	22.35	22.42	23.00
		1	14	21.73	22.23	21.75	23.00
		8	0	20.89	21.01	20.88	22.00
		8	4	20.69	21.13	20.99	22.00
		8	7	20.57	21.09	21.13	22.00
		15	0	20.91	21.18	20.97	22.00
	64QAM	1	0	21.40	20.89	21.23	22.00
		1	7	20.97	21.40	21.18	22.00
		1	14	20.91	21.32	20.90	22.00
		8	0	19.89	19.98	19.79	21.00
		8	4	19.76	20.11	20.00	21.00
		8	7	19.78	20.24	20.16	21.00
		15	0	19.78	20.15	19.99	21.00
	256QAM	1	0	17.88	18.16	17.98	19.00
		1	7	18.25	18.33	18.15	19.00
		1	14	18.13	17.97	18.01	19.00
		8	0	18.03	18.01	17.89	19.00

		8	4	17.78	17.88	17.78	19.00
		8	7	17.72	17.56	17.72	19.00
		15	0	17.36	17.58	17.60	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.93	21.71	21.71	23.00
		1	13	21.61	21.93	21.85	23.00
		1	24	21.56	21.85	21.47	23.00
		12	0	21.89	21.95	21.80	23.00
		12	6	21.67	22.07	21.95	23.00
		12	13	21.56	21.98	21.83	23.00
		25	0	21.63	21.97	21.69	23.00
	16QAM	1	0	22.29	22.07	22.18	23.00
		1	13	21.84	22.21	22.34	23.00
		1	24	21.77	21.97	21.83	23.00
		12	0	20.93	20.75	20.84	22.00
		12	6	20.73	21.01	20.93	22.00
		12	13	20.61	20.99	20.99	22.00
		25	0	20.75	20.90	20.87	22.00
	64QAM	1	0	21.30	20.77	21.27	22.00
		1	13	20.95	21.48	20.94	22.00
		1	24	20.63	21.26	20.78	22.00
		12	0	19.81	20.02	19.83	21.00
		12	6	19.68	20.15	20.06	21.00
		12	13	19.72	19.98	20.00	21.00
		25	0	19.78	19.93	19.79	21.00
	256QAM	1	0	18.08	17.88	18.00	19.00
		1	13	18.03	18.23	17.97	19.00
		1	24	18.01	18.01	17.89	19.00
		12	0	17.89	18.07	17.89	19.00
		12	6	17.76	17.74	17.72	19.00
		12	13	17.64	17.78	17.74	19.00
		25	0	17.64	17.56	17.66	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.23	21.75	22.01	23.00
		1	25	21.39	22.13	22.05	23.00
		1	49	21.78	21.79	21.77	23.00
		25	0	21.91	22.03	21.68	23.00
		25	13	21.69	21.93	21.77	23.00
		25	25	21.60	22.16	22.01	23.00
		50	0	21.95	22.11	21.73	23.00
	16QAM	1	0	22.25	22.09	22.32	23.00

		1	25	22.02	22.59	22.44	23.00
		1	49	21.63	22.25	21.99	23.00
		25	0	21.09	21.05	20.92	22.00
		25	13	20.79	21.13	20.85	22.00
		25	25	20.47	21.07	21.11	22.00
		50	0	21.05	21.04	20.97	22.00
	64QAM	1	0	21.40	21.03	21.05	22.00
		1	25	20.95	21.40	21.22	22.00
		1	49	21.03	21.28	20.98	22.00
		25	0	19.99	19.84	19.97	21.00
		25	13	19.98	20.27	19.84	21.00
		25	25	19.60	20.02	20.00	21.00
		50	0	19.86	20.01	20.13	21.00
	256QAM	1	0	18.04	17.92	17.98	19.00
		1	25	18.13	18.03	18.17	19.00
		1	49	17.89	17.83	17.97	19.00
		25	0	17.85	17.93	17.85	19.00
		25	13	17.72	17.56	17.58	19.00
		25	25	17.62	17.46	17.58	19.00
		50	0	17.50	17.64	17.58	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	22.09	21.65	21.89	23.00
		1	38	21.73	22.05	22.07	23.00
		1	74	21.80	21.83	21.53	23.00
		36	0	21.91	21.87	21.82	23.00
		36	18	21.81	22.17	21.83	23.00
		36	39	21.52	21.92	22.13	23.00
		75	0	21.91	22.01	21.91	23.00
	16QAM	1	0	22.37	22.25	22.06	23.00
		1	38	21.82	22.51	22.44	23.00
		1	74	21.81	22.11	21.73	23.00
		36	0	20.89	20.91	20.96	22.00
		36	18	20.67	21.15	21.21	22.00
		36	39	20.75	21.05	20.97	22.00
		75	0	20.75	21.10	21.07	22.00
	64QAM	1	0	21.12	21.13	21.07	22.00
		1	38	20.97	21.38	21.04	22.00
		1	74	20.69	21.34	20.92	22.00
		36	0	19.85	20.00	19.77	21.00
		36	18	19.94	20.21	19.92	21.00
		36	39	19.72	20.02	20.04	21.00
		75	0	19.78	20.17	20.09	21.00

	256QAM	1	0	18.08	17.98	17.92	19.00
		1	38	18.19	18.15	18.09	19.00
		1	74	17.79	17.91	17.87	19.00
		36	0	18.01	17.83	18.17	19.00
		36	18	17.60	17.80	17.70	19.00
		36	39	17.76	17.84	17.76	19.00
		75	0	17.72	17.68	17.42	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	22.05	21.71	21.83	23.00
		1	50	21.57	22.03	21.97	23.00
		1	99	21.62	21.93	21.61	23.00
		50	0	21.89	21.85	21.76	23.00
		50	25	21.69	22.07	21.93	23.00
		50	50	21.54	22.04	21.95	23.00
		100	0	21.73	22.01	21.81	23.00
	16QAM	1	0	22.31	22.11	22.14	23.00
		1	50	21.82	22.39	22.38	23.00
		1	99	21.81	22.07	21.77	23.00
		50	0	20.99	20.95	20.90	22.00
		50	25	20.77	21.17	21.03	22.00
		50	50	20.65	21.13	21.01	22.00
		100	0	20.87	21.08	20.91	22.00
	64QAM	1	0	21.24	20.97	21.17	22.00
		1	50	20.93	21.42	21.10	22.00
		1	99	20.81	21.16	20.90	22.00
		50	0	19.97	19.92	19.85	21.00
		50	25	19.76	20.15	20.00	21.00
		50	50	19.68	20.10	20.02	21.00
		100	0	19.84	20.07	19.93	21.00
	256QAM	1	0	18.14	18.06	17.96	19.00
		1	50	18.23	18.25	17.95	19.00
		1	99	17.95	18.15	18.07	19.00
		50	0	17.87	17.85	17.87	19.00
		50	25	17.62	17.70	17.78	19.00
		50	50	17.64	17.70	17.76	19.00
		100	0	17.50	17.72	17.78	19.00
LTE Band 2							
Hotspot on--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	14.82	14.50	14.31	15.50
		1	2	14.23	14.80	14.35	15.50

		1	5	14.15	14.30	14.18	15.50
		3	0	14.43	14.43	14.28	15.50
		3	2	14.42	14.67	14.32	15.50
		3	3	14.01	14.67	14.39	15.50
		6	0	14.18	14.82	14.34	15.50
	16QAM	1	0	14.91	14.41	14.64	15.50
		1	2	14.52	15.02	14.96	15.50
		1	5	14.13	14.67	14.52	15.50
		3	0	14.63	14.50	14.12	15.50
		3	2	14.56	14.81	14.45	15.50
		3	3	14.19	14.79	14.60	15.50
		6	0	14.20	14.57	14.30	15.50
	64QAM	1	0	14.69	14.68	14.40	15.50
		1	2	14.33	14.53	14.31	15.50
		1	5	14.30	14.54	14.02	15.50
		3	0	14.46	14.52	14.45	15.50
		3	2	14.42	14.81	14.41	15.50
		3	3	14.11	14.70	14.48	15.50
		6	0	14.53	14.82	14.56	15.50
	256QAM	1	0	14.72	14.60	14.18	15.50
		1	2	14.43	14.33	14.73	15.50
		1	5	14.86	14.46	14.58	15.50
		3	0	14.30	14.48	14.36	15.50
		3	2	14.41	14.37	14.67	15.50
		3	3	14.72	14.36	14.72	15.50
		6	0	14.70	14.78	14.60	15.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	14.86	14.30	14.31	15.50
		1	7	14.03	14.68	14.23	15.50
		1	14	14.33	14.42	14.28	15.50
		8	0	14.57	14.49	14.20	15.50
		8	4	14.22	14.63	14.56	15.50
		8	7	14.27	14.71	14.37	15.50
		15	0	14.32	14.48	14.26	15.50
	16QAM	1	0	14.85	14.61	14.68	15.50
		1	7	14.22	14.94	14.74	15.50
		1	14	14.27	14.55	14.54	15.50
		8	0	14.47	14.40	14.26	15.50
		8	4	14.38	14.67	14.43	15.50
		8	7	14.17	14.71	14.40	15.50
		15	0	14.44	14.63	14.44	15.50
	64QAM	1	0	14.79	14.38	14.36	15.50

		1	7	14.25	14.51	14.27	15.50
		1	14	14.06	14.48	14.30	15.50
		8	0	14.48	14.44	14.19	15.50
		8	4	14.28	14.55	14.53	15.50
		8	7	14.23	14.44	14.40	15.50
		15	0	14.47	14.70	14.16	15.50
	256QAM	1	0	14.66	14.62	14.24	15.50
		1	7	14.29	14.39	14.55	15.50
		1	14	14.84	14.48	14.52	15.50
		8	0	14.22	14.44	14.40	15.50
		8	4	14.27	14.35	14.79	15.50
		8	7	14.64	14.40	14.58	15.50
		15	0	14.60	14.60	14.70	15.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	14.84	14.44	14.23	15.50
		1	13	13.95	14.58	14.23	15.50
		1	24	14.05	14.20	14.06	15.50
		12	0	14.43	14.43	14.16	15.50
		12	6	14.36	14.61	14.32	15.50
		12	13	13.99	14.71	14.51	15.50
		25	0	14.16	14.60	14.44	15.50
	16QAM	1	0	14.65	14.41	14.54	15.50
		1	13	14.20	14.90	14.78	15.50
		1	24	14.13	14.51	14.54	15.50
		12	0	14.35	14.50	14.36	15.50
		12	6	14.18	14.47	14.19	15.50
		12	13	13.99	14.55	14.56	15.50
		25	0	14.22	14.45	14.36	15.50
	64QAM	1	0	14.63	14.42	14.30	15.50
		1	13	14.09	14.51	14.29	15.50
		1	24	13.98	14.48	14.04	15.50
		12	0	14.44	14.46	14.27	15.50
		12	6	14.10	14.47	14.23	15.50
		12	13	14.15	14.50	14.38	15.50
		25	0	14.21	14.56	14.18	15.50
	256QAM	1	0	14.32	14.44	14.52	15.50
		1	13	14.45	14.67	14.69	15.50
		1	24	14.48	14.56	14.66	15.50
		12	0	14.42	14.30	14.46	15.50
		12	6	14.77	14.73	14.75	15.50
		12	13	14.66	14.56	14.48	15.50
		25	0	14.66	14.52	14.46	15.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	14.78	14.42	14.53	15.50
		1	25	14.29	14.76	14.41	15.50
		1	49	14.09	14.40	14.06	15.50
		25	0	14.43	14.37	14.08	15.50
		25	13	14.30	14.67	14.42	15.50
		25	25	14.11	14.63	14.37	15.50
		50	0	14.42	14.74	14.54	15.50
	16QAM	1	0	15.01	14.71	14.52	15.50
		1	25	14.42	14.92	14.78	15.50
		1	49	14.13	14.79	14.74	15.50
		25	0	14.33	14.48	14.38	15.50
		25	13	14.38	14.69	14.25	15.50
		25	25	14.17	14.51	14.66	15.50
		50	0	14.46	14.69	14.32	15.50
	64QAM	1	0	14.97	14.48	14.30	15.50
		1	25	14.37	14.51	14.51	15.50
		1	49	14.06	14.52	14.24	15.50
		25	0	14.60	14.30	14.37	15.50
		25	13	14.44	14.55	14.25	15.50
		25	25	14.05	14.46	14.64	15.50
		50	0	14.49	14.40	14.26	15.50
	256QAM	1	0	14.52	14.46	14.44	15.50
		1	25	14.35	14.57	14.35	15.50
		1	49	14.60	14.44	14.52	15.50
		25	0	14.42	14.28	14.38	15.50
		25	13	14.63	14.53	14.69	15.50
		25	25	14.32	14.42	14.52	15.50
		50	0	14.50	14.44	14.64	15.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	14.76	14.26	14.39	15.50
		1	38	14.15	14.58	14.35	15.50
		1	74	14.09	14.34	14.16	15.50
		36	0	14.65	14.41	14.32	15.50
		36	18	14.22	14.51	14.32	15.50
		36	39	14.25	14.75	14.33	15.50
		75	0	14.24	14.52	14.34	15.50
	16QAM	1	0	14.93	14.57	14.68	15.50
		1	38	14.50	15.08	14.76	15.50
		1	74	14.43	14.79	14.64	15.50
		36	0	14.45	14.54	14.46	15.50

		36	18	14.34	14.75	14.29	15.50
		36	39	14.11	14.77	14.56	15.50
		75	0	14.26	14.67	14.34	15.50
		1	0	14.71	14.38	14.56	15.50
		1	38	14.23	14.71	14.45	15.50
		1	74	14.26	14.74	14.12	15.50
		36	0	14.44	14.36	14.33	15.50
		36	18	14.42	14.77	14.45	15.50
		36	39	14.13	14.64	14.36	15.50
	64QAM	75	0	14.37	14.72	14.44	15.50
		1	0	14.64	14.46	14.48	15.50
		1	38	14.51	14.63	14.71	15.50
		1	74	14.68	14.74	14.66	15.50
		36	0	14.32	14.56	14.48	15.50
		36	18	14.53	14.55	14.73	15.50
		36	39	14.66	14.62	14.46	15.50
		75	0	14.56	14.76	14.70	15.50
	256QAM	1	0	14.64	14.46	14.48	15.50
		1	38	14.51	14.63	14.71	15.50
		1	74	14.68	14.74	14.66	15.50
		36	0	14.32	14.56	14.48	15.50
		36	18	14.53	14.55	14.73	15.50
		36	39	14.66	14.62	14.46	15.50
		75	0	14.56	14.76	14.70	15.50
		75	0	14.56	14.76	14.70	15.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	14.76	14.36	14.37	15.50
		1	50	14.13	14.62	14.33	15.50
		1	99	14.19	14.38	14.16	15.50
		50	0	14.47	14.41	14.24	15.50
		50	25	14.26	14.63	14.42	15.50
		50	50	14.17	14.61	14.45	15.50
		100	0	14.34	14.56	14.34	15.50
		100	0	14.34	14.56	14.34	15.50
	16QAM	1	0	14.79	14.51	14.64	15.50
		1	50	14.32	14.92	14.82	15.50
		1	99	14.29	14.63	14.54	15.50
		50	0	14.49	14.40	14.28	15.50
		50	25	14.28	14.61	14.39	15.50
		50	50	14.17	14.61	14.46	15.50
		100	0	14.32	14.55	14.32	15.50
		100	0	14.32	14.55	14.32	15.50
	64QAM	1	0	14.75	14.42	14.42	15.50
		1	50	14.27	14.55	14.31	15.50
		1	99	14.12	14.56	14.16	15.50
		50	0	14.48	14.40	14.21	15.50
		50	25	14.24	14.63	14.41	15.50
		50	50	14.17	14.52	14.44	15.50
		100	0	14.33	14.54	14.26	15.50
		100	0	14.33	14.54	14.26	15.50
	256QAM	1	0	14.32	14.50	14.48	15.50
		1	50	14.51	14.57	14.71	15.50
		1	99	14.68	14.58	14.60	15.50

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		50	0	14.54	14.54	14.30	15.50
		50	25	14.81	14.59	14.79	15.50
		50	50	14.58	14.58	14.44	15.50
		100	0	14.62	14.54	14.42	15.50

9.3 LTE Mode

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 1, 2 and 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
256 QAM	≥ 1						≤ 5

LTE Band 4							
Receiver on& Receiver off--Ant0				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	22.49	22.83	22.93	23.50
		1	2	22.36	22.61	22.85	23.50
		1	5	22.36	22.34	22.60	23.50
		3	0	22.67	22.11	22.68	23.50
		3	2	22.24	22.37	22.54	23.50
		3	3	22.25	22.24	22.58	23.50
		6	0	22.71	22.09	22.64	23.50
	16QAM	1	0	22.74	22.83	22.96	23.50
		1	2	22.36	22.49	22.69	23.50
		1	5	22.57	22.67	22.38	23.50
		3	0	22.92	22.97	22.92	23.50
		3	2	22.52	22.67	22.67	23.50
		3	3	22.65	22.81	22.36	23.50
		6	0	21.76	21.48	21.70	22.50
	64QAM	1	0	21.85	21.54	21.87	22.50
		1	2	21.51	21.29	22.15	22.50
		1	5	21.52	21.33	22.24	22.50
		3	0	21.93	21.48	22.09	22.50
		3	2	21.73	21.43	22.05	22.50
		3	3	21.52	21.37	22.34	22.50
		6	0	20.23	20.43	20.93	21.50
	256QAM	1	0	18.85	18.73	18.47	19.50
		1	2	18.79	18.53	18.73	19.50
		1	5	18.71	18.47	18.19	19.50

		3	0	18.47	18.45	18.71	19.50
		3	2	18.60	18.72	18.48	19.50
		3	3	18.49	18.59	18.47	19.50
		6	0	18.54	18.64	18.42	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	22.75	22.69	22.61	23.50
		1	7	22.54	22.45	22.65	23.50
		1	14	22.40	22.52	22.58	23.50
		8	0	22.51	22.33	22.66	23.50
		8	4	22.40	22.21	22.76	23.50
		8	7	22.33	22.22	22.74	23.50
		15	0	22.43	22.45	22.78	23.50
	16QAM	1	0	22.86	22.77	22.90	23.50
		1	7	22.42	22.65	23.01	23.50
		1	14	22.59	22.93	22.70	23.50
		8	0	21.60	21.47	21.79	22.50
		8	4	21.61	21.38	21.88	22.50
		8	7	21.49	21.37	21.78	22.50
		15	0	21.42	21.46	21.90	22.50
	64QAM	1	0	21.71	21.70	22.07	22.50
		1	7	21.57	21.51	22.09	22.50
		1	14	21.56	21.79	22.06	22.50
		8	0	20.50	20.59	20.66	21.50
		8	4	20.57	20.46	20.75	21.50
		8	7	20.29	20.56	20.86	21.50
		15	0	20.61	20.39	20.71	21.50
	256QAM	1	0	18.73	18.61	18.59	19.50
		1	7	18.81	18.61	18.55	19.50
		1	14	18.79	18.59	18.21	19.50
		8	0	18.51	18.47	18.59	19.50
		8	4	18.48	18.82	18.58	19.50
		8	7	18.47	18.67	18.49	19.50
		15	0	18.48	18.52	18.46	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	22.51	22.71	22.71	23.50
		1	13	22.22	22.45	22.59	23.50
		1	24	22.36	22.38	22.72	23.50
		12	0	22.43	22.31	22.46	23.50
		12	6	22.46	22.19	22.50	23.50
		12	13	22.25	22.28	22.66	23.50
		25	0	22.57	22.19	22.50	23.50

	16QAM	1	0	22.52	22.59	22.94	23.50
		1	13	22.60	22.41	22.77	23.50
		1	24	22.53	22.73	22.78	23.50
		12	0	21.48	21.33	21.81	22.50
		12	6	21.55	21.26	21.70	22.50
		12	13	21.51	21.41	21.82	22.50
		25	0	21.48	21.52	21.82	22.50
	64QAM	1	0	21.57	21.60	22.03	22.50
		1	13	21.45	21.55	21.87	22.50
		1	24	21.38	21.53	21.92	22.50
		12	0	20.44	20.57	20.60	21.50
		12	6	20.25	20.54	20.91	21.50
		12	13	20.29	20.24	20.74	21.50
		25	0	20.35	20.37	20.77	21.50
	256QAM	1	0	18.49	18.55	18.65	19.50
		1	13	18.85	18.69	18.63	19.50
		1	24	18.55	18.69	18.55	19.50
		12	0	18.51	18.55	18.67	19.50
		12	6	18.78	18.72	18.64	19.50
		12	13	18.49	18.59	18.75	19.50
		25	0	18.60	18.46	18.52	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	22.77	22.87	22.51	23.50
		1	25	22.52	22.41	22.85	23.50
		1	49	22.34	22.70	22.64	23.50
		25	0	22.45	22.35	22.46	23.50
		25	13	22.32	22.13	22.82	23.50
		25	25	22.21	22.44	22.46	23.50
		50	0	22.63	22.19	22.58	23.50
	16QAM	1	0	22.86	22.53	22.80	23.50
		1	25	22.46	22.57	23.03	23.50
		1	49	22.71	23.03	22.82	23.50
		25	0	21.28	21.37	21.75	22.50
		25	13	21.43	21.28	21.70	22.50
		25	25	21.23	21.53	21.80	22.50
		50	0	21.46	21.48	21.78	22.50
	64QAM	1	0	21.97	21.50	21.87	22.50
		1	25	21.71	21.67	22.09	22.50
		1	49	21.38	21.81	22.16	22.50
		25	0	20.54	20.51	20.92	21.50
		25	13	20.27	20.52	20.63	21.50
		25	25	20.23	20.60	20.54	21.50

		50	0	20.31	20.37	20.67	21.50
		1	0	18.49	18.53	18.65	19.50
		1	25	18.57	18.61	18.51	19.50
		1	49	18.39	18.55	18.63	19.50
		25	0	18.61	18.55	18.47	19.50
		25	13	18.62	18.60	18.46	19.50
		25	25	18.61	18.39	18.51	19.50
		50	0	18.28	18.38	18.34	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	22.75	22.85	22.79	23.50
		1	38	22.32	22.53	22.67	23.50
		1	74	22.40	22.40	22.80	23.50
		36	0	22.33	22.27	22.70	23.50
		36	18	22.38	22.35	22.88	23.50
		36	39	22.33	22.40	22.52	23.50
		75	0	22.55	22.39	22.74	23.50
	16QAM	1	0	22.68	22.67	23.08	23.50
		1	38	22.64	22.53	22.83	23.50
		1	74	22.71	22.95	22.82	23.50
		36	0	21.36	21.45	21.87	22.50
		36	18	21.55	21.38	21.66	22.50
		36	39	21.39	21.31	21.76	22.50
		75	0	21.42	21.56	21.70	22.50
	64QAM	1	0	21.87	21.46	21.91	22.50
		1	38	21.41	21.55	21.91	22.50
		1	74	21.56	21.85	22.08	22.50
		36	0	20.64	20.45	20.76	21.50
		36	18	20.51	20.54	20.81	21.50
		36	39	20.53	20.48	20.74	21.50
		75	0	20.37	20.53	20.65	21.50
	256QAM	1	0	18.59	18.47	18.49	19.50
		1	38	18.85	18.69	18.77	19.50
		1	74	18.77	18.63	18.41	19.50
		36	0	18.43	18.77	18.57	19.50
		36	18	18.80	18.72	18.66	19.50
		36	39	18.71	18.51	18.69	19.50
		75	0	18.40	18.64	18.46	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	22.69	22.67	22.69	23.50
		1	50	22.38	22.45	22.73	23.50
		1	99	22.40	22.52	22.62	23.50

		50	0	22.45	22.33	22.64	23.50
		50	25	22.44	22.31	22.70	23.50
		50	50	22.35	22.30	22.60	23.50
		100	0	22.47	22.31	22.68	23.50
	16QAM	1	0	22.72	22.65	22.90	23.50
		1	50	22.52	22.53	22.95	23.50
		1	99	22.53	22.83	22.74	23.50
		50	0	21.46	21.35	21.75	22.50
		50	25	21.45	21.34	21.78	22.50
		50	50	21.41	21.31	21.72	22.50
		100	0	21.48	21.44	21.76	22.50
	64QAM	1	0	21.75	21.54	21.95	22.50
		1	50	21.51	21.49	21.97	22.50
		1	99	21.48	21.69	22.06	22.50
		50	0	20.50	20.47	20.74	21.50
		50	25	20.45	20.44	20.81	21.50
		50	50	20.37	20.42	20.72	21.50
		100	0	20.47	20.45	20.77	21.50
	256QAM	1	0	18.57	18.49	18.67	19.50
		1	50	18.75	18.81	18.63	19.50
		1	99	18.55	18.45	18.51	19.50
		50	0	18.67	18.53	18.53	19.50
		50	25	18.64	18.54	18.64	19.50
		50	50	18.51	18.57	18.69	19.50
		100	0	18.56	18.52	18.44	19.50
LTE Band 4							
Hotspot on--Ant0				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	20.99	21.11	21.21	22.00
		1	2	20.78	21.24	21.40	22.00
		1	5	20.97	21.16	21.51	22.00
		3	0	20.84	21.09	21.28	22.00
		3	2	21.10	20.93	21.29	22.00
		3	3	21.12	21.03	20.85	22.00
		6	0	20.85	20.95	21.12	22.00
	16QAM	1	0	21.35	21.38	21.63	22.00
		1	2	21.21	21.14	21.48	22.00
		1	5	21.10	21.55	21.08	22.00
		3	0	21.43	21.54	21.65	22.00
		3	2	21.17	21.04	21.62	22.00
		3	3	21.10	21.69	21.14	22.00
		6	0	21.34	20.90	21.24	21.50

	64QAM	1	0	21.13	20.81	21.15	21.50
		1	2	21.12	21.04	20.69	21.50
		1	5	20.81	20.95	21.06	21.50
		3	0	21.01	20.59	20.81	21.50
		3	2	20.78	20.59	20.87	21.50
		3	3	20.91	20.72	20.83	21.50
		6	0	20.78	20.76	20.66	21.50
		1	0	18.08	18.40	18.30	19.50
		1	2	18.23	18.47	18.59	19.50
		1	5	18.35	18.81	18.67	19.50
		3	0	18.09	18.05	18.03	19.50
		3	2	18.28	18.64	18.30	19.50
		3	3	18.28	18.30	18.30	19.50
		6	0	18.16	18.12	18.54	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	21.23	21.15	21.15	22.00
		1	7	20.92	21.02	21.42	22.00
		1	14	20.97	21.28	21.23	22.00
		8	0	21.18	21.11	21.24	22.00
		8	4	21.12	20.99	21.23	22.00
		8	7	21.04	21.09	21.21	22.00
		15	0	21.05	21.13	21.34	22.00
	16QAM	1	0	21.35	21.36	21.53	22.00
		1	7	21.23	21.32	21.42	22.00
		1	14	21.12	21.51	21.46	22.00
		8	0	21.17	20.97	20.99	21.50
		8	4	21.00	21.14	21.07	21.50
		8	7	21.09	21.03	21.04	21.50
		15	0	21.12	21.14	21.04	21.50
	64QAM	1	0	21.05	21.15	21.13	21.50
		1	7	20.98	21.36	21.11	21.50
		1	14	20.97	20.93	21.16	21.50
		8	0	20.87	20.81	20.81	21.50
		8	4	20.96	20.71	21.03	21.50
		8	7	20.71	20.92	20.91	21.50
		15	0	20.78	20.84	21.00	21.50
	256QAM	1	0	17.98	18.22	18.30	19.50
		1	7	18.13	18.35	18.69	19.50
		1	14	18.47	18.71	18.57	19.50
		8	0	18.11	18.13	17.95	19.50
		8	4	18.10	18.52	18.24	19.50
		8	7	18.26	18.34	18.28	19.50

		15	0	18.28	18.22	18.40	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.01	21.13	21.11	22.00
		1	13	21.04	20.90	21.32	22.00
		1	24	20.79	21.30	21.23	22.00
		12	0	20.88	20.81	21.32	22.00
		12	6	21.10	20.95	21.07	22.00
		12	13	21.08	20.83	20.93	22.00
		25	0	21.07	20.91	21.10	22.00
	16QAM	1	0	21.47	21.04	21.49	22.00
		1	13	21.25	21.22	21.24	22.00
		1	24	21.04	21.21	21.14	22.00
		12	0	21.13	21.05	20.99	21.50
		12	6	20.92	20.86	20.91	21.50
		12	13	20.97	20.99	20.84	21.50
		25	0	21.10	20.80	20.88	21.50
	64QAM	1	0	21.01	20.95	20.95	21.50
		1	13	20.94	21.28	20.95	21.50
		1	24	21.03	20.83	20.98	21.50
		12	0	20.89	20.61	20.81	21.50
		12	6	20.74	20.73	20.87	21.50
		12	13	20.81	20.68	20.59	21.50
		25	0	20.78	20.82	20.90	21.50
	256QAM	1	0	18.20	18.38	18.14	19.50
		1	13	18.47	18.39	18.31	19.50
		1	24	18.51	18.53	18.49	19.50
		12	0	18.01	18.05	18.01	19.50
		12	6	18.40	18.28	18.30	19.50
		12	13	18.30	18.46	18.40	19.50
		25	0	18.12	18.36	18.16	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	20.97	21.17	21.03	22.00
		1	25	20.98	21.18	21.40	22.00
		1	49	20.91	21.16	21.31	22.00
		25	0	21.22	21.01	21.44	22.00
		25	13	21.24	20.95	21.15	22.00
		25	25	21.04	20.97	21.23	22.00
		50	0	21.01	21.23	21.38	22.00
	16QAM	1	0	21.41	21.32	21.47	22.00
		1	25	21.33	21.12	21.34	22.00
		1	49	21.08	21.59	21.34	22.00

			25	0	21.07	20.85	20.91	21.50
			25	13	20.90	21.06	21.27	21.50
			25	25	21.19	21.05	20.86	21.50
			50	0	21.18	21.08	20.94	21.50
		64QAM	1	0	21.19	20.95	21.15	21.50
			1	25	20.96	21.06	21.03	21.50
			1	49	20.89	21.03	21.04	21.50
			25	0	20.71	20.83	20.87	21.50
			25	13	20.76	20.65	20.93	21.50
			25	25	20.85	20.72	20.97	21.50
			50	0	20.84	20.62	20.86	21.50
		256QAM	1	0	18.32	18.28	18.24	19.50
			1	25	18.33	18.43	18.31	19.50
			1	49	18.25	18.45	18.33	19.50
			25	0	17.91	18.09	18.09	19.50
			25	13	18.12	18.16	18.32	19.50
			25	25	18.12	18.24	18.18	19.50
			50	0	18.06	18.24	18.32	19.50
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20025/1717.5	20175/1732.5	20325/1747.5	
15MHz		QPSK	1	0	21.17	21.25	21.23	22.00
			1	38	21.14	21.08	21.56	22.00
			1	74	21.03	21.14	21.31	22.00
			36	0	21.22	21.09	21.36	22.00
			36	18	21.20	20.95	21.31	22.00
			36	39	21.00	21.15	21.07	22.00
			75	0	21.19	21.01	21.40	22.00
		16QAM	1	0	21.57	21.28	21.37	22.00
			1	38	21.29	21.40	21.52	22.00
			1	74	21.08	21.35	21.34	22.00
			36	0	21.09	21.01	21.09	21.50
			36	18	21.08	21.20	21.09	21.50
			36	39	21.01	21.07	21.10	21.50
			75	0	21.00	20.90	21.04	21.50
		64QAM	1	0	21.11	21.23	21.17	21.50
			1	38	21.02	21.10	21.09	21.50
			1	74	21.03	21.13	21.16	21.50
			36	0	21.03	20.67	20.81	21.50
			36	18	20.70	20.81	20.89	21.50
			36	39	20.75	20.80	20.79	21.50
			75	0	21.00	20.74	20.74	21.50
		256QAM	1	0	18.06	18.38	18.30	19.50
			1	38	18.51	18.45	18.25	19.50

		1	74	18.35	18.37	18.49	19.50
		36	0	18.15	18.19	18.17	19.50
		36	18	18.18	18.46	18.14	19.50
		36	39	18.46	18.36	18.26	19.50
		75	0	18.16	18.22	18.10	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.15	21.09	21.15	22.00
		1	50	21.02	21.08	21.46	22.00
		1	99	20.91	21.26	21.29	22.00
		50	0	21.06	20.95	21.24	22.00
		50	25	21.04	20.97	21.25	22.00
		50	50	21.00	21.01	21.11	22.00
		100	0	21.07	21.01	21.24	22.00
	16QAM	1	0	21.39	21.22	21.47	22.00
		1	50	21.17	21.24	21.40	22.00
		1	99	21.20	21.39	21.30	22.00
		50	0	21.09	21.01	21.07	21.50
		50	25	21.04	21.02	21.09	21.50
		50	50	21.03	20.99	20.98	21.50
		100	0	21.10	21.00	21.04	21.50
	64QAM	1	0	21.03	21.11	21.09	21.50
		1	50	21.06	21.20	20.99	21.50
		1	99	20.95	20.95	21.12	21.50
		50	0	20.85	20.79	20.87	21.50
		50	25	20.82	20.81	20.91	21.50
		50	50	20.77	20.84	20.75	21.50
		100	0	20.88	20.78	20.86	21.50
	256QAM	1	0	18.24	18.22	18.16	19.50
		1	50	18.35	18.43	18.35	19.50
		1	99	18.47	18.47	18.53	19.50
		50	0	18.01	17.93	17.97	19.50
		50	25	18.24	18.40	18.28	19.50
		50	50	18.40	18.44	18.32	19.50
		100	0	18.18	18.32	18.28	19.50
LTE Band 4							
Receiver on--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	18.62	18.23	17.97	19.20
		1	2	18.26	17.93	18.06	19.20
		1	5	17.87	18.12	18.12	19.20
		3	0	18.11	18.22	18.52	19.20

		3	2	18.29	17.85	18.26	19.20
		3	3	18.27	17.96	18.40	19.20
		6	0	18.04	17.90	18.63	19.20
	16QAM	1	0	18.78	18.29	18.59	19.20
		1	2	18.36	18.17	18.48	19.20
		1	5	18.23	18.38	19.06	19.20
		3	0	18.14	17.79	18.27	19.20
		3	2	18.09	18.08	18.51	19.20
		3	3	18.11	17.95	18.17	19.20
		6	0	18.01	17.71	18.62	19.20
	64QAM	1	0	18.46	18.36	18.24	19.20
		1	2	18.09	18.21	18.60	19.20
		1	5	18.07	18.56	18.70	19.20
		3	0	17.98	18.00	18.45	19.20
		3	2	18.18	18.18	18.51	19.20
		3	3	17.63	18.25	18.28	19.20
		6	0	17.95	17.89	18.29	19.20
	256QAM	1	0	17.93	18.01	18.11	19.00
		1	2	18.08	18.06	17.94	19.00
		1	5	18.51	18.43	18.53	19.00
		3	0	17.75	17.51	17.69	19.00
		3	2	17.71	17.79	17.75	19.00
		3	3	17.84	18.00	17.42	19.00
		6	0	17.64	18.04	17.86	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	18.68	18.05	18.09	19.20
		1	7	18.02	17.81	18.44	19.20
		1	14	17.99	18.28	18.30	19.20
		8	0	18.37	18.06	18.36	19.20
		8	4	18.11	17.95	18.34	19.20
		8	7	18.07	17.94	18.26	19.20
		15	0	18.28	18.00	18.27	19.20
	16QAM	1	0	18.70	18.25	18.51	19.20
		1	7	18.24	18.43	18.78	19.20
		1	14	18.11	18.32	18.80	19.20
		8	0	18.24	17.93	18.37	19.20
		8	4	18.05	17.92	18.43	19.20
		8	7	18.11	17.95	18.25	19.20
		15	0	18.13	17.97	18.44	19.20
	64QAM	1	0	18.78	18.22	18.50	19.20
		1	7	18.25	18.15	18.60	19.20
		1	14	17.93	18.34	18.56	19.20

		8	0	18.48	18.06	18.21	19.20
		8	4	18.02	17.96	18.47	19.20
		8	7	17.91	18.05	18.42	19.20
		15	0	18.17	17.97	18.25	19.20
	256QAM	1	0	18.01	17.93	18.23	19.00
		1	7	18.16	17.96	17.96	19.00
		1	14	18.17	18.35	18.39	19.00
		8	0	18.05	17.95	18.05	19.00
		8	4	17.85	17.69	17.91	19.00
		8	7	17.94	17.92	17.62	19.00
		15	0	17.66	17.84	18.04	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	18.56	17.93	17.93	19.20
		1	13	18.00	17.75	18.24	19.20
		1	24	17.81	18.28	18.04	19.20
		12	0	18.19	17.86	18.22	19.20
		12	6	17.97	17.95	18.24	19.20
		12	13	17.85	17.76	18.16	19.20
		25	0	17.96	18.02	18.17	19.20
	16QAM	1	0	18.80	18.17	18.39	19.20
		1	13	18.16	18.07	18.68	19.20
		1	24	18.17	18.26	18.80	19.20
		12	0	18.28	17.87	18.21	19.20
		12	6	17.95	17.98	18.37	19.20
		12	13	17.97	17.75	18.31	19.20
		25	0	18.19	17.81	18.38	19.20
	64QAM	1	0	18.68	18.10	18.38	19.20
		1	13	18.27	18.07	18.38	19.20
		1	24	17.95	18.26	18.48	19.20
		12	0	18.38	17.72	18.15	19.20
		12	6	18.12	17.98	18.29	19.20
		12	13	17.91	17.97	18.34	19.20
		25	0	17.97	17.85	18.31	19.20
	256QAM	1	0	18.09	17.87	18.17	19.00
		1	13	18.00	18.00	17.94	19.00
		1	24	18.13	18.27	18.21	19.00
		12	0	17.83	17.85	17.85	19.00
		12	6	17.71	17.71	17.83	19.00
		12	13	17.66	17.74	17.72	19.00
		25	0	17.60	17.56	17.74	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	

10MHz	QPSK	1	0	18.54	17.91	17.95	19.20
		1	25	18.24	17.79	18.40	19.20
		1	49	17.79	18.28	18.26	19.20
		25	0	18.43	18.04	18.46	19.20
		25	13	18.27	17.77	18.54	19.20
		25	25	18.17	18.04	18.32	19.20
		50	0	18.12	18.16	18.47	19.20
	16QAM	1	0	18.64	18.23	18.61	19.20
		1	25	18.40	18.09	18.80	19.20
		1	49	18.05	18.58	18.78	19.20
		25	0	18.22	17.97	18.29	19.20
		25	13	18.27	17.84	18.51	19.20
		25	25	18.19	18.05	18.53	19.20
		50	0	18.29	17.79	18.36	19.20
	64QAM	1	0	18.58	18.32	18.38	19.20
		1	25	18.51	18.03	18.62	19.20
		1	49	18.09	18.64	18.70	19.20
		25	0	18.22	17.74	18.13	19.20
		25	13	18.20	18.12	18.41	19.20
		25	25	18.05	17.83	18.48	19.20
		50	0	18.15	17.99	18.57	19.20
	256QAM	1	0	17.97	17.89	18.25	19.00
		1	25	18.10	17.88	18.28	19.00
		1	49	18.43	18.45	18.17	19.00
		25	0	18.01	17.87	17.75	19.00
		25	13	17.75	17.65	17.73	19.00
		25	25	17.92	18.02	17.82	19.00
		50	0	17.68	17.88	17.90	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	18.68	17.93	18.31	19.20
		1	38	18.00	17.95	18.34	19.20
		1	74	17.95	18.30	18.38	19.20
		36	0	18.37	18.04	18.40	19.20
		36	18	18.27	17.85	18.48	19.20
		36	39	18.03	17.78	18.24	19.20
		75	0	18.04	17.86	18.47	19.20
	16QAM	1	0	18.60	18.07	18.61	19.20
		1	38	18.38	18.33	18.78	19.20
		1	74	18.03	18.40	18.74	19.20
		36	0	18.44	17.83	18.29	19.20
		36	18	18.05	17.80	18.37	19.20
		36	39	17.99	17.81	18.21	19.20

		75	0	18.31	17.91	18.24	19.20
		1	0	18.64	18.32	18.36	19.20
		1	38	18.31	18.23	18.62	19.20
		1	74	17.89	18.34	18.72	19.20
		36	0	18.46	18.02	18.39	19.20
		36	18	18.02	18.00	18.53	19.20
		36	39	18.13	18.03	18.50	19.20
		75	0	18.31	18.15	18.23	19.20
		1	0	17.97	17.89	18.23	19.00
		1	38	18.16	17.90	17.98	19.00
		1	74	18.15	18.15	18.29	19.00
		36	0	17.93	17.95	17.81	19.00
		36	18	17.77	17.69	17.91	19.00
		36	39	17.88	18.10	17.90	19.00
		75	0	17.74	17.64	18.04	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	18.54	18.03	18.13	19.20
		1	50	18.02	17.87	18.40	19.20
		1	99	17.87	18.22	18.20	19.20
		50	0	18.27	17.94	18.28	19.20
		50	25	18.11	17.87	18.38	19.20
		50	50	17.97	17.88	18.32	19.20
		100	0	18.12	17.94	18.29	19.20
	16QAM	1	0	18.70	18.19	18.49	19.20
		1	50	18.22	18.27	18.68	19.20
		1	99	18.15	18.38	18.70	19.20
		50	0	18.28	17.95	18.27	19.20
		50	25	18.13	17.92	18.35	19.20
		50	50	17.97	17.93	18.33	19.20
		100	0	18.17	17.95	18.32	19.20
	64QAM	1	0	18.74	18.20	18.38	19.20
		1	50	18.29	18.09	18.58	19.20
		1	99	17.95	18.42	18.60	19.20
		50	0	18.32	17.92	18.29	19.20
		50	25	18.12	17.94	18.43	19.20
		50	50	17.97	17.91	18.38	19.20
		100	0	18.15	17.97	18.35	19.20
	256QAM	1	0	17.99	18.01	18.27	19.00
		1	50	18.02	17.94	18.06	19.00
		1	99	18.25	18.23	18.23	19.00
		50	0	17.93	17.83	17.89	19.00
		50	25	17.79	17.77	17.75	19.00

		50	50	17.80	17.92	17.72	19.00
		100	0	17.76	17.76	17.92	19.00
LTE Band 4							
Receiver off--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	22.08	22.00	21.88	23.00
		1	2	21.72	21.89	22.16	23.00
		1	5	21.80	21.70	22.22	23.00
		3	0	22.06	21.73	21.81	23.00
		3	2	21.97	21.68	22.38	23.00
		3	3	21.95	21.71	22.31	23.00
		6	0	21.76	21.61	22.03	23.00
	16QAM	1	0	22.26	22.22	22.53	23.00
		1	2	22.03	21.67	22.43	23.00
		1	5	21.78	22.08	22.53	23.00
		3	0	22.16	22.38	22.61	23.00
		3	2	21.97	21.83	22.31	23.00
		3	3	21.90	22.04	22.43	23.00
		6	0	21.08	20.95	21.43	22.00
	64QAM	1	0	21.85	21.13	20.92	22.00
		1	2	21.07	20.92	21.47	22.00
		1	5	20.70	20.89	21.15	22.00
		3	0	21.77	21.19	20.80	22.00
		3	2	20.95	21.04	21.41	22.00
		3	3	20.70	20.99	21.29	22.00
		6	0	20.16	19.90	20.33	21.00
	256QAM	1	0	17.99	17.95	18.03	19.00
		1	2	17.68	17.72	17.92	19.00
		1	5	18.35	17.97	18.31	19.00
		3	0	17.97	17.87	17.73	19.00
		3	2	18.05	17.91	18.05	19.00
		3	3	17.92	17.74	17.86	19.00
		6	0	18.06	17.78	17.94	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	22.24	22.02	21.86	23.00
		1	7	21.70	21.83	22.20	23.00
		1	14	21.70	22.02	22.28	23.00
		8	0	22.16	21.73	22.07	23.00
		8	4	21.97	21.60	22.18	23.00
		8	7	21.67	21.75	22.31	23.00
		15	0	21.82	21.87	22.09	23.00

	16QAM	1	0	22.48	22.14	22.39	23.00
		1	7	22.09	21.95	22.69	23.00
		1	14	21.68	22.22	22.49	23.00
		8	0	20.98	20.87	21.27	22.00
		8	4	21.01	20.87	21.23	22.00
		8	7	21.01	20.94	21.19	22.00
		15	0	20.90	20.79	21.35	22.00
		1	0	21.63	20.89	21.00	22.00
		1	7	21.05	20.94	21.61	22.00
		1	14	21.04	21.13	21.33	22.00
		8	0	20.07	19.73	20.18	21.00
		8	4	19.99	19.87	20.33	21.00
		8	7	19.93	19.82	20.19	21.00
		15	0	20.06	19.94	20.29	21.00
	64QAM	1	0	18.17	18.33	18.17	19.00
		1	7	17.94	17.78	17.94	19.00
		1	14	18.27	18.19	18.41	19.00
		8	0	18.01	17.61	17.87	19.00
		8	4	18.11	17.87	17.85	19.00
		8	7	17.92	17.84	17.98	19.00
		15	0	18.08	17.94	18.14	19.00
	256QAM	1	0	18.17	18.33	18.17	19.00
		1	7	17.94	17.78	17.94	19.00
		1	14	18.27	18.19	18.41	19.00
		8	0	18.01	17.61	17.87	19.00
		8	4	18.11	17.87	17.85	19.00
		8	7	17.92	17.84	17.98	19.00
		15	0	18.08	17.94	18.14	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	22.34	22.06	21.90	23.00
		1	13	21.56	21.61	22.20	23.00
		1	24	21.58	21.86	22.14	23.00
		12	0	22.12	21.73	22.01	23.00
		12	6	21.93	21.66	22.02	23.00
		12	13	21.69	21.47	22.03	23.00
		25	0	21.96	21.51	22.21	23.00
	16QAM	1	0	22.46	21.92	22.39	23.00
		1	13	21.91	21.81	22.55	23.00
		1	24	21.68	22.22	22.33	23.00
		12	0	20.96	20.79	20.97	22.00
		12	6	20.95	20.85	21.39	22.00
		12	13	20.65	20.86	21.37	22.00
		25	0	21.00	20.77	21.27	22.00
	64QAM	1	0	21.35	20.87	20.84	22.00
		1	13	20.99	20.76	21.45	22.00
		1	24	20.86	21.19	21.09	22.00
		12	0	20.15	19.83	20.24	21.00
		12	6	19.85	19.69	20.27	21.00
		12	13	19.77	19.88	20.37	21.00

		25	0	20.06	19.80	20.25	21.00
		1	0	18.21	18.31	17.97	19.00
		1	13	17.66	17.84	18.00	19.00
		1	24	18.05	18.29	18.17	19.00
		12	0	17.91	17.67	17.73	19.00
		12	6	18.11	17.85	17.71	19.00
		12	13	17.72	17.68	17.78	19.00
		25	0	18.12	18.04	17.92	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	22.24	22.10	22.08	23.00
		1	25	21.94	21.77	22.10	23.00
		1	49	21.56	21.82	22.08	23.00
		25	0	22.22	21.73	22.03	23.00
		25	13	21.85	21.82	22.26	23.00
		25	25	21.53	21.73	22.37	23.00
		50	0	21.76	21.85	22.13	23.00
	16QAM	1	0	22.68	21.96	22.19	23.00
		1	25	22.21	21.79	22.53	23.00
		1	49	21.92	22.22	22.75	23.00
		25	0	20.92	20.85	21.25	22.00
		25	13	20.91	20.61	21.25	22.00
		25	25	20.77	20.72	21.43	22.00
		50	0	21.02	20.67	21.41	22.00
	64QAM	1	0	21.67	21.19	20.88	22.00
		1	25	21.17	21.06	21.55	22.00
		1	49	20.90	21.07	21.25	22.00
		25	0	20.21	19.77	20.10	21.00
		25	13	19.91	19.83	20.37	21.00
		25	25	19.79	19.86	20.37	21.00
		50	0	19.82	20.02	20.11	21.00
	256QAM	1	0	18.21	18.37	18.07	19.00
		1	25	17.74	17.94	17.88	19.00
		1	49	18.05	18.37	18.45	19.00
		25	0	17.89	17.61	17.79	19.00
		25	13	18.03	17.77	17.91	19.00
		25	25	18.00	17.58	17.72	19.00
		50	0	18.02	18.08	18.14	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	22.40	21.94	21.92	23.00
		1	38	21.72	21.81	22.14	23.00
		1	74	21.46	22.14	22.28	23.00

			36	0	22.00	21.63	22.09	23.00
			36	18	22.05	21.80	22.16	23.00
			36	39	21.73	21.57	22.07	23.00
			75	0	21.88	21.63	22.23	23.00
		16QAM	1	0	22.42	22.00	22.17	23.00
			1	38	22.13	21.75	22.73	23.00
			1	74	21.70	22.28	22.65	23.00
			36	0	21.22	20.73	21.09	22.00
			36	18	21.15	20.85	21.19	22.00
			36	39	20.79	20.80	21.31	22.00
			75	0	20.96	20.81	21.47	22.00
		64QAM	1	0	21.51	20.87	21.02	22.00
			1	38	21.21	20.94	21.59	22.00
	1		74	21.02	21.11	21.25	22.00	
	36		0	20.13	19.71	20.30	21.00	
	36		18	20.15	19.73	20.49	21.00	
	36		39	19.77	19.70	20.39	21.00	
	75		0	20.12	19.84	20.21	21.00	
		256QAM	1	0	18.29	18.23	18.01	19.00
			1	38	18.00	17.90	18.02	19.00
			1	74	18.07	18.17	18.27	19.00
			36	0	17.97	17.57	17.83	19.00
			36	18	17.97	18.01	18.05	19.00
			36	39	17.78	17.76	18.00	19.00
			75	0	18.04	18.08	17.98	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up	
				20050/1720	20175/1732.5	20300/1745		
20MHz		QPSK	1	0	22.26	22.00	21.94	23.00
			1	50	21.74	21.75	22.22	23.00
			1	99	21.56	21.96	22.12	23.00
			50	0	22.02	21.69	22.05	23.00
			50	25	21.89	21.66	22.22	23.00
			50	50	21.71	21.65	22.19	23.00
			100	0	21.86	21.71	22.17	23.00
	16QAM	1	0	22.46	22.12	22.29	23.00	
		1	50	22.01	21.81	22.59	23.00	
		1	99	21.74	22.14	22.53	23.00	
		50	0	21.08	20.79	21.15	22.00	
		50	25	20.99	20.79	21.29	22.00	
		50	50	20.85	20.78	21.29	22.00	
		100	0	21.00	20.83	21.29	22.00	
	64QAM	1	0	21.53	20.97	21.04	22.00	
		1	50	21.03	20.90	21.53	22.00	

		1	99	20.90	21.13	21.29	22.00
		50	0	20.15	19.79	20.18	21.00
		50	25	20.01	19.75	20.35	21.00
		50	50	19.83	19.82	20.29	21.00
		100	0	20.00	19.84	20.29	21.00
	256QAM	1	0	18.19	18.21	18.03	19.00
		1	50	17.86	17.76	17.96	19.00
		1	99	18.13	18.23	18.27	19.00
		50	0	17.87	17.69	17.87	19.00
		50	25	18.07	17.83	17.87	19.00
		50	50	17.90	17.72	17.90	19.00
		100	0	18.02	17.94	18.04	19.00
LTE Band 4							
Hotspot on--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	16.56	16.13	16.17	17.20
		1	2	16.01	16.16	16.55	17.20
		1	5	15.86	16.26	16.37	17.20
		3	0	16.60	16.18	16.43	17.20
		3	2	16.36	15.82	16.51	17.20
		3	3	16.37	15.97	16.62	17.20
		6	0	16.31	15.95	16.53	17.20
	16QAM	1	0	16.57	16.41	16.52	17.20
		1	2	16.38	16.29	16.57	17.20
		1	5	16.41	16.51	16.60	17.20
		3	0	16.32	15.99	16.35	17.20
		3	2	16.12	15.98	16.37	17.20
		3	3	15.92	15.91	16.33	17.20
		6	0	16.09	16.04	16.50	17.20
	64QAM	1	0	16.72	16.44	16.37	17.20
		1	2	16.34	16.49	16.54	17.20
		1	5	16.02	16.22	16.50	17.20
		3	0	16.39	16.11	16.14	17.20
		3	2	16.20	16.27	16.41	17.20
		3	3	16.04	16.02	16.49	17.20
		6	0	16.42	16.11	16.32	17.20
	256QAM	1	0	16.25	16.53	16.37	17.20
		1	2	16.37	16.43	16.51	17.20
		1	5	16.13	16.45	16.61	17.20
		3	0	15.89	15.65	16.11	17.20
		3	2	15.88	16.04	16.10	17.20
		3	3	15.93	15.75	15.85	17.20

		6	0	15.74	15.76	15.96	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	16.50	16.05	16.23	17.20
		1	7	16.17	16.16	16.59	17.20
		1	14	15.98	16.28	16.25	17.20
		8	0	16.54	15.90	16.37	17.20
		8	4	16.26	15.98	16.49	17.20
		8	7	16.01	16.07	16.50	17.20
		15	0	16.25	16.09	16.27	17.20
	16QAM	1	0	16.71	16.41	16.38	17.20
		1	7	16.44	16.21	16.75	17.20
		1	14	16.15	16.43	16.60	17.20
		8	0	16.22	15.87	16.25	17.20
		8	4	16.08	15.94	16.37	17.20
		8	7	15.94	15.87	16.27	17.20
		15	0	16.19	16.10	16.24	17.20
	64QAM	1	0	16.48	16.30	16.59	17.20
		1	7	16.36	16.31	16.66	17.20
		1	14	16.14	16.38	16.64	17.20
		8	0	16.39	15.97	16.16	17.20
		8	4	16.36	15.99	16.47	17.20
		8	7	16.18	16.08	16.35	17.20
		15	0	16.14	16.03	16.42	17.20
	256QAM	1	0	16.35	16.53	16.35	17.20
		1	7	16.23	16.45	16.33	17.20
		1	14	16.23	16.31	16.47	17.20
		8	0	16.01	15.75	15.95	17.20
		8	4	15.94	15.92	16.20	17.20
		8	7	15.77	15.79	15.89	17.20
		15	0	15.66	15.82	16.08	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	16.44	16.09	16.09	17.20
		1	13	16.13	15.98	16.55	17.20
		1	24	15.92	16.12	16.13	17.20
		12	0	16.48	15.80	16.13	17.20
		12	6	16.20	16.00	16.47	17.20
		12	13	16.03	15.85	16.28	17.20
		25	0	16.15	16.05	16.25	17.20
	16QAM	1	0	16.65	16.41	16.40	17.20
		1	13	16.20	16.19	16.53	17.20
		1	24	16.21	16.39	16.54	17.20

			12	0	16.24	15.85	16.37	17.20
			12	6	15.96	16.02	16.41	17.20
			12	13	16.06	15.81	16.25	17.20
			25	0	16.05	16.04	16.16	17.20
		64QAM	1	0	16.64	16.32	16.35	17.20
			1	13	16.10	16.15	16.40	17.20
			1	24	16.00	16.34	16.58	17.20
			12	0	16.13	16.01	16.08	17.20
			12	6	16.16	16.03	16.21	17.20
			12	13	16.04	16.04	16.41	17.20
			25	0	16.10	15.81	16.42	17.20
		256QAM	1	0	16.21	16.43	16.37	17.20
			1	13	16.39	16.25	16.21	17.20
			1	24	16.51	16.41	16.39	17.20
			12	0	16.07	15.95	16.11	17.20
			12	6	16.08	16.02	16.06	17.20
			12	13	16.05	15.95	15.87	17.20
			25	0	16.06	15.94	16.06	17.20
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20000/1715	20175/1732.5	20350/1750	
10MHz		QPSK	1	0	16.70	16.27	16.31	17.20
			1	25	16.33	16.16	16.59	17.20
			1	49	16.08	16.02	16.15	17.20
			25	0	16.60	15.92	16.47	17.20
			25	13	16.40	15.76	16.57	17.20
			25	25	16.21	16.15	16.50	17.20
			50	0	16.13	15.83	16.37	17.20
		16QAM	1	0	16.79	16.39	16.64	17.20
			1	25	16.10	16.15	16.43	17.20
			1	49	16.25	16.57	16.80	17.20
			25	0	16.38	15.83	16.25	17.20
			25	13	16.38	15.94	16.33	17.20
			25	25	16.06	15.97	16.13	17.20
			50	0	16.19	15.96	16.44	17.20
		64QAM	1	0	16.68	16.36	16.45	17.20
			1	25	16.38	16.01	16.62	17.20
			1	49	15.96	16.42	16.58	17.20
			25	0	16.25	16.05	16.02	17.20
			25	13	16.38	15.79	16.47	17.20
			25	25	15.96	15.76	16.21	17.20
			50	0	16.26	15.89	16.22	17.20
		256QAM	1	0	16.37	16.15	16.21	17.20
			1	25	16.09	16.37	16.33	17.20

		1	49	16.39	16.23	16.31	17.20
		25	0	16.01	15.81	16.07	17.20
		25	13	15.74	16.00	15.74	17.20
		25	25	15.89	15.99	15.89	17.20
		50	0	15.88	16.02	15.92	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	16.50	16.23	16.17	17.20
		1	38	16.19	16.08	16.51	17.20
		1	74	15.82	16.32	16.51	17.20
		36	0	16.46	16.08	16.31	17.20
		36	18	16.22	15.82	16.59	17.20
		36	39	16.03	15.99	16.30	17.20
		75	0	16.09	15.87	16.47	17.20
	16QAM	1	0	16.55	16.45	16.52	17.20
		1	38	16.30	16.15	16.63	17.20
		1	74	16.43	16.33	16.72	17.20
		36	0	16.24	16.09	16.33	17.20
		36	18	16.06	16.10	16.33	17.20
		36	39	16.20	16.05	16.33	17.20
		75	0	16.35	15.90	16.50	17.20
	64QAM	1	0	16.66	16.46	16.63	17.20
		1	38	16.24	16.33	16.62	17.20
		1	74	16.14	16.24	16.50	17.20
		36	0	16.25	16.07	16.38	17.20
		36	18	16.18	16.03	16.55	17.20
		36	39	16.04	15.90	16.47	17.20
		75	0	16.08	15.89	16.42	17.20
	256QAM	1	0	16.35	16.45	16.13	17.20
		1	38	16.19	16.21	16.13	17.20
		1	74	16.39	16.33	16.35	17.20
		36	0	15.91	15.97	15.97	17.20
		36	18	16.04	15.88	15.86	17.20
		36	39	15.83	16.01	16.11	17.20
		75	0	16.00	16.18	15.98	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	16.56	16.13	16.17	17.20
		1	50	16.11	16.12	16.53	17.20
		1	99	15.86	16.20	16.33	17.20
		50	0	16.38	15.96	16.29	17.20
		50	25	16.22	15.94	16.43	17.20
		50	50	16.05	15.97	16.36	17.20

	16QAM	100	0	16.21	15.99	16.35	17.20
		1	0	16.67	16.31	16.46	17.20
		1	50	16.28	16.27	16.61	17.20
		1	99	16.25	16.37	16.62	17.20
		50	0	16.30	15.97	16.27	17.20
		50	25	16.16	15.94	16.37	17.20
		50	50	16.02	15.91	16.31	17.20
		100	0	16.17	15.98	16.32	17.20
	64QAM	1	0	16.58	16.38	16.49	17.20
		1	50	16.20	16.15	16.58	17.20
		1	99	16.02	16.28	16.48	17.20
		50	0	16.31	15.95	16.20	17.20
		50	25	16.20	15.97	16.37	17.20
		50	50	16.04	15.94	16.35	17.20
		100	0	16.16	15.99	16.32	17.20
	256QAM	1	0	16.33	16.21	16.39	17.20
		1	50	16.37	16.27	16.37	17.20
		1	99	16.51	16.45	16.45	17.20
		50	0	15.87	15.99	15.95	17.20
		50	25	16.12	16.08	15.90	17.20
		50	50	16.07	15.87	15.83	17.20
		100	0	16.02	16.02	15.90	17.20

LTE Band 5							
Receiver on& Receiver off--Ant1				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	24.25	24.24	24.22	25.00
		1	2	24.34	24.25	24.22	25.00
		1	5	24.31	24.23	24.20	25.00
		3	0	24.31	24.22	24.18	25.00
		3	2	24.35	24.24	24.17	25.00
		3	3	24.33	24.23	24.16	25.00
		6	0	23.34	23.21	23.17	24.00
	16QAM	1	0	23.74	23.62	23.59	24.00
		1	2	23.79	23.68	23.65	24.00
		1	5	23.67	23.51	23.48	24.00
		3	0	23.46	23.41	23.30	24.00
		3	2	23.47	23.39	23.28	24.00
		3	3	23.55	23.42	23.41	24.00
		6	0	22.37	22.31	22.26	23.00
	64QAM	1	0	22.59	22.42	22.36	23.00
		1	2	22.62	22.35	22.30	23.00

		1	5	22.63	22.54	22.35	23.00
		3	0	22.45	22.33	22.31	23.00
		3	2	22.48	22.40	22.29	23.00
		3	3	22.46	22.27	22.30	23.00
		6	0	21.42	21.25	21.25	22.00
	256QAM	1	0	18.73	18.91	19.09	20.00
		1	2	19.31	19.09	19.05	20.00
		1	5	18.98	18.94	19.04	20.00
		3	0	18.88	19.08	18.74	20.00
		3	2	18.97	18.95	18.83	20.00
		3	3	18.78	18.90	18.78	20.00
		6	0	18.91	18.63	18.71	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	24.30	24.15	24.20	25.00
		1	7	24.38	24.30	24.32	25.00
		1	14	24.28	24.20	24.14	25.00
		8	0	23.36	23.20	23.21	24.00
		8	4	23.39	23.28	23.25	24.00
		8	7	23.38	23.29	23.22	24.00
		15	0	23.36	23.27	23.21	24.00
	16QAM	1	0	23.47	23.44	23.48	24.00
		1	7	23.73	23.59	23.56	24.00
		1	14	23.70	23.48	23.55	24.00
		8	0	22.39	22.24	22.28	23.00
		8	4	22.45	22.34	22.34	23.00
		8	7	22.42	22.36	22.31	23.00
		15	0	22.36	22.31	22.26	23.00
	64QAM	1	0	22.42	22.38	22.37	23.00
		1	7	22.67	22.56	22.42	23.00
		1	14	22.57	22.30	22.38	23.00
		8	0	21.34	21.19	21.29	22.00
		8	4	21.38	21.35	21.29	22.00
		8	7	21.40	21.26	21.28	22.00
		15	0	21.35	21.25	21.23	22.00
	256QAM	1	0	18.87	19.05	19.27	20.00
		1	7	19.23	19.05	19.31	20.00
		1	14	19.08	19.14	19.04	20.00
		8	0	18.92	18.80	18.82	20.00
		8	4	19.23	19.15	18.93	20.00
		8	7	18.72	19.04	18.62	20.00
		15	0	18.97	18.71	18.69	20.00
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)			Tune-up

		RB Allocation		20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.31	24.24	24.20	25.00
		1	13	24.45	24.36	24.35	25.00
		1	24	24.37	24.22	24.20	25.00
		12	0	23.36	23.21	23.17	24.00
		12	6	23.42	23.31	23.17	24.00
		12	13	23.37	23.27	23.24	24.00
		25	0	23.35	23.31	23.15	24.00
	16QAM	1	0	23.58	23.61	23.46	24.00
		1	13	23.85	23.68	23.64	24.00
		1	24	23.68	23.53	23.54	24.00
		12	0	22.39	22.22	22.19	23.00
		12	6	22.41	22.38	22.18	23.00
		12	13	22.45	22.29	22.25	23.00
		25	0	22.35	22.26	22.19	23.00
	64QAM	1	0	22.59	22.47	22.29	23.00
		1	13	22.56	22.50	22.53	23.00
		1	24	22.50	22.34	22.32	23.00
		12	0	21.39	21.23	21.15	22.00
		12	6	21.44	21.33	21.20	22.00
		12	13	21.34	21.31	21.21	22.00
		25	0	21.38	21.31	21.14	22.00
	256QAM	1	0	18.83	19.01	19.11	20.00
		1	13	19.37	19.11	19.11	20.00
		1	24	19.32	18.96	19.18	20.00
		12	0	18.94	19.06	19.02	20.00
		12	6	19.05	19.21	19.19	20.00
		12	13	18.90	19.06	18.66	20.00
		25	0	19.17	18.85	18.89	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	24.34	24.32	24.28	25.00
		1	25	24.38	24.34	24.31	25.00
		1	49	24.28	24.29	24.24	25.00
		25	0	23.29	23.25	23.18	24.00
		25	13	23.37	23.30	23.29	24.00
		25	25	23.36	23.29	23.23	24.00
		50	0	23.36	23.32	23.20	24.00
	16QAM	1	0	23.79	23.58	23.50	24.00
		1	25	23.70	23.54	23.44	24.00
		1	49	23.67	23.58	23.57	24.00
		25	0	22.32	22.25	22.20	23.00

		25	13	22.37	22.33	22.29	23.00
		25	25	22.34	22.29	22.26	23.00
		50	0	22.35	22.32	22.19	23.00
	64QAM	1	0	22.41	22.64	22.42	23.00
		1	25	22.64	22.51	22.35	23.00
		1	49	22.41	22.37	22.37	23.00
		25	0	21.24	21.27	21.18	22.00
		25	13	21.38	21.35	21.30	22.00
		25	25	21.36	21.24	21.25	22.00
		50	0	21.33	21.33	21.24	22.00
	256QAM	1	0	18.85	19.03	19.09	20.00
		1	25	19.23	19.03	19.13	20.00
		1	49	19.14	19.08	19.02	20.00
		25	0	18.88	18.98	18.90	20.00
25		13	19.05	19.03	19.03	20.00	
25		25	18.82	19.02	18.78	20.00	
50		0	19.01	18.81	18.83	20.00	
LTE Band 5							
Hotspot on--Ant1				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	22.83	22.74	22.73	23.50
		1	2	22.86	22.76	22.76	23.50
		1	5	22.84	22.72	22.75	23.50
		3	0	22.89	22.78	22.71	23.50
		3	2	22.86	22.77	22.72	23.50
		3	3	22.88	22.78	22.70	23.50
		6	0	22.86	22.76	22.72	23.50
	16QAM	1	0	23.13	23.08	23.10	23.50
		1	2	23.26	23.08	23.08	23.50
		1	5	23.06	23.10	23.16	23.50
		3	0	23.06	22.93	22.88	23.50
		3	2	23.01	22.97	22.87	23.50
		3	3	23.00	22.93	22.84	23.50
		6	0	22.48	22.35	22.32	23.00
	64QAM	1	0	22.52	22.37	22.35	23.00
		1	2	22.57	22.42	22.34	23.00
		1	5	22.59	22.49	22.38	23.00
		3	0	22.46	22.44	22.29	23.00
		3	2	22.43	22.39	22.33	23.00
		3	3	22.42	22.43	22.34	23.00
		6	0	21.41	21.31	21.22	22.00
	256QAM	1	0	18.99	18.83	19.01	20.00

		1	2	19.08	19.28	19.10	20.00
		1	5	18.90	18.94	18.86	20.00
		3	0	18.93	18.95	18.81	20.00
		3	2	18.81	18.91	19.05	20.00
		3	3	19.04	18.92	19.06	20.00
		6	0	18.81	18.89	19.05	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	22.79	22.70	22.65	23.50
		1	7	22.88	22.79	22.79	23.50
		1	14	22.79	22.72	22.69	23.50
		8	0	22.88	22.73	22.76	23.50
		8	4	22.87	22.82	22.76	23.50
		8	7	22.92	22.79	22.76	23.50
		15	0	22.88	22.79	22.74	23.50
	16QAM	1	0	23.14	23.11	23.02	23.50
		1	7	23.27	23.25	23.04	23.50
		1	14	23.10	23.17	23.04	23.50
		8	0	22.45	22.26	22.29	23.00
		8	4	22.49	22.37	22.33	23.00
		8	7	22.46	22.37	22.30	23.00
		15	0	22.43	22.31	22.25	23.00
	64QAM	1	0	22.48	22.42	22.37	23.00
		1	7	22.55	22.59	22.48	23.00
		1	14	22.67	22.50	22.40	23.00
		8	0	21.46	21.24	21.26	22.00
		8	4	21.48	21.31	21.29	22.00
		8	7	21.43	21.31	21.27	22.00
		15	0	21.40	21.28	21.28	22.00
	256QAM	1	0	18.75	18.99	18.89	20.00
		1	7	19.08	19.08	19.12	20.00
		1	14	19.06	18.92	18.90	20.00
		8	0	18.77	18.79	18.71	20.00
		8	4	18.95	18.93	18.83	20.00
		8	7	19.04	18.84	18.74	20.00
		15	0	18.87	18.73	18.73	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	22.84	22.77	22.72	23.50
		1	13	22.91	22.91	22.84	23.50
		1	24	22.80	22.77	22.79	23.50
		12	0	22.87	22.71	22.69	23.50
		12	6	22.94	22.82	22.73	23.50

		12	13	22.89	22.78	22.76	23.50
		25	0	22.90	22.80	22.69	23.50
	16QAM	1	0	23.22	23.18	23.11	23.50
		1	13	23.27	23.23	23.18	23.50
		1	24	23.17	23.14	23.06	23.50
		12	0	22.40	22.23	22.21	23.00
		12	6	22.45	22.40	22.29	23.00
		12	13	22.44	22.29	22.32	23.00
		25	0	22.38	22.34	22.19	23.00
		1	0	22.49	22.46	22.29	23.00
	64QAM	1	13	22.54	22.54	22.54	23.00
		1	24	22.46	22.36	22.42	23.00
		12	0	21.37	21.25	21.18	22.00
		12	6	21.46	21.38	21.22	22.00
		12	13	21.41	21.34	21.32	22.00
		25	0	21.36	21.26	21.22	22.00
		1	0	18.95	18.99	19.07	20.00
		1	13	19.20	19.30	19.24	20.00
	256QAM	1	24	18.96	18.94	18.80	20.00
		12	0	19.07	18.81	18.81	20.00
		12	6	18.93	18.79	18.81	20.00
		12	13	18.98	19.00	19.10	20.00
		25	0	18.87	18.81	19.07	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	22.86	22.85	22.78	23.50
		1	25	22.90	22.82	22.76	23.50
		1	49	22.79	22.80	22.72	23.50
		25	0	22.81	22.77	22.71	23.50
		25	13	22.90	22.89	22.79	23.50
		25	25	22.86	22.80	22.75	23.50
		50	0	22.87	22.81	22.74	23.50
	16QAM	1	0	23.18	23.31	22.99	23.50
		1	25	23.20	23.21	23.13	23.50
		1	49	23.11	23.13	23.17	23.50
		25	0	22.34	22.30	22.18	23.00
		25	13	22.42	22.40	22.33	23.00
		25	25	22.39	22.31	22.26	23.00
		50	0	22.40	22.35	22.20	23.00
	64QAM	1	0	22.50	22.50	22.31	23.00
		1	25	22.51	22.46	22.56	23.00
		1	49	22.53	22.37	22.44	23.00
		25	0	21.33	21.31	21.23	22.00

		25	13	21.43	21.38	21.35	22.00
		25	25	21.37	21.29	21.27	22.00
		50	0	21.38	21.35	21.20	22.00
	256QAM	1	0	18.77	18.85	18.83	20.00
		1	25	19.10	19.04	19.14	20.00
		1	49	18.96	18.98	19.06	20.00
		25	0	18.99	18.85	18.81	20.00
		25	13	19.07	19.01	18.81	20.00
		25	25	19.02	18.82	18.92	20.00
		50	0	18.87	19.05	19.07	20.00

LTE Band 7							
Receiver on& Receiver off--Ant0				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	21.87	21.95	21.94	23.00
		1	13	22.03	22.04	22.02	23.00
		1	24	21.98	21.99	22.01	23.00
		12	0	21.91	21.95	21.94	23.00
		12	6	21.99	22.01	21.98	23.00
		12	13	22.01	21.98	21.96	23.00
		25	0	21.94	21.99	21.98	23.00
	16QAM	1	0	22.14	22.33	22.38	23.00
		1	13	22.30	22.49	22.37	23.00
		1	24	22.26	22.37	22.21	23.00
		12	0	21.47	21.48	21.42	22.50
		12	6	21.52	21.55	21.49	22.50
		12	13	21.51	21.53	21.49	22.50
		25	0	21.49	21.52	21.45	22.50
	64QAM	1	0	21.62	21.77	21.61	22.50
		1	13	21.72	21.63	21.79	22.50
		1	24	21.69	21.68	21.54	22.50
		12	0	20.44	20.55	20.42	21.50
		12	6	20.46	20.51	20.49	21.50
		12	13	20.45	20.49	20.46	21.50
		25	0	20.45	20.52	20.44	21.50
	256QAM	1	0	18.74	18.58	18.76	19.50
		1	13	18.56	18.64	18.58	19.50
		1	24	18.62	18.86	18.64	19.50
		12	0	18.51	18.41	18.55	19.50
		12	6	18.63	18.55	18.75	19.50
		12	13	18.47	18.55	18.57	19.50
		25	0	18.64	18.68	18.42	19.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.93	22.03	21.92	23.00
		1	25	22.01	22.01	22.02	23.00
		1	49	22.00	22.05	22.04	23.00
		25	0	22.00	22.02	21.88	23.00
		25	13	22.07	22.03	21.92	23.00
		25	25	21.98	22.06	22.02	23.00
		50	0	21.96	22.05	21.89	23.00
	16QAM	1	0	22.19	22.39	22.32	23.00
		1	25	22.42	22.28	22.22	23.00
		1	49	22.39	22.39	22.35	23.00
		25	0	21.52	21.54	21.40	22.50
		25	13	21.58	21.55	21.42	22.50
		25	25	21.52	21.54	21.49	22.50
		50	0	21.40	21.49	21.40	22.50
	64QAM	1	0	21.51	21.64	21.49	22.50
		1	25	21.67	21.79	21.52	22.50
		1	49	21.70	21.69	21.63	22.50
		25	0	20.45	20.49	20.40	21.50
		25	13	20.54	20.58	20.44	21.50
		25	25	20.52	20.53	20.49	21.50
		50	0	20.42	20.52	20.42	21.50
	256QAM	1	0	18.52	18.44	18.58	19.50
		1	25	18.30	18.38	18.30	19.50
		1	49	18.60	18.60	18.54	19.50
		25	0	18.21	18.39	18.19	19.50
		25	13	18.69	18.65	18.41	19.50
		25	25	18.39	18.47	18.43	19.50
		50	0	18.50	18.62	18.50	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.73	21.85	21.75	23.00
		1	38	22.00	21.85	21.88	23.00
		1	74	21.94	21.78	21.88	23.00
		36	0	21.85	21.88	21.75	23.00
		36	18	21.87	21.88	21.83	23.00
		36	39	21.92	21.91	21.87	23.00
		75	0	21.85	21.91	21.80	23.00
	16QAM	1	0	22.04	22.07	22.00	23.00
		1	38	22.17	22.14	22.09	23.00
		1	74	22.18	22.15	22.16	23.00
		36	0	21.37	21.39	21.24	22.50

			36	18	21.38	21.44	21.35	22.50
			36	39	21.39	21.44	21.35	22.50
			75	0	21.36	21.44	21.26	22.50
		64QAM	1	0	21.52	21.52	21.40	22.50
			1	38	21.57	21.51	21.57	22.50
			1	74	21.61	21.58	21.60	22.50
			36	0	20.39	20.40	20.23	21.50
			36	18	20.31	20.40	20.39	21.50
			36	39	20.40	20.40	20.35	21.50
			75	0	20.33	20.44	20.27	21.50
		256QAM	1	0	18.50	18.48	18.66	19.50
			1	38	18.62	18.40	18.60	19.50
			1	74	18.58	18.80	18.80	19.50
			36	0	18.35	18.27	18.21	19.50
			36	18	18.73	18.77	18.57	19.50
			36	39	18.45	18.45	18.39	19.50
			75	0	18.56	18.64	18.48	19.50
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20850/2510	21100/2535	21350/2560	
20MHz		QPSK	1	0	21.72	21.92	21.79	23.00
			1	50	21.94	21.93	21.84	23.00
			1	99	21.98	21.88	21.85	23.00
			50	0	21.91	21.91	21.80	23.00
			50	25	21.98	21.91	21.82	23.00
			50	50	21.98	21.97	21.89	23.00
			100	0	22.00	21.94	21.81	23.00
		16QAM	1	0	21.81	21.97	22.02	23.00
			1	50	22.08	22.12	22.17	23.00
			1	99	22.17	22.16	22.18	23.00
			50	0	21.36	21.46	21.27	22.50
			50	25	21.51	21.42	21.32	22.50
			50	50	21.46	21.46	21.40	22.50
			100	0	21.49	21.44	21.29	22.50
		64QAM	1	0	21.47	21.58	21.46	22.50
			1	50	21.70	21.67	21.64	22.50
			1	99	21.67	21.61	21.65	22.50
			50	0	20.42	20.40	20.26	21.50
			50	25	20.49	20.46	20.32	21.50
			50	50	20.42	20.48	20.40	21.50
			100	0	20.48	20.47	20.33	21.50
		256QAM	1	0	18.64	18.50	18.68	19.50
			1	50	18.40	18.60	18.66	19.50
			1	99	18.84	18.58	18.76	19.50

		50	0	18.57	18.57	18.49	19.50
		50	25	18.75	18.77	18.61	19.50
		50	50	18.61	18.69	18.69	19.50
		100	0	18.54	18.50	18.56	19.50
LTE Band 7							
Hotspot on--Ant0				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	20.27	20.30	20.38	21.50
		1	13	20.39	20.40	20.42	21.50
		1	24	20.35	20.32	20.35	21.50
		12	0	20.29	20.37	20.37	21.50
		12	6	20.37	20.39	20.42	21.50
		12	13	20.33	20.38	20.37	21.50
		25	0	20.35	20.40	20.39	21.50
	16QAM	1	0	20.54	20.76	20.64	21.50
		1	13	20.65	20.67	20.79	21.50
		1	24	20.61	20.67	20.76	21.50
		12	0	20.32	20.42	20.42	21.00
		12	6	20.42	20.45	20.42	21.00
		12	13	20.38	20.40	20.42	21.00
		25	0	20.33	20.40	20.40	21.00
	64QAM	1	0	20.38	20.51	20.54	21.00
		1	13	20.44	20.62	20.54	21.00
		1	24	20.51	20.49	20.42	21.00
		12	0	20.33	20.42	20.36	21.00
		12	6	20.36	20.38	20.42	21.00
		12	13	20.42	20.42	20.45	21.00
		25	0	20.30	20.39	20.33	21.00
	256QAM	1	0	18.74	18.86	18.86	19.50
		1	13	18.45	18.57	18.47	19.50
		1	24	18.70	18.76	18.80	19.50
		12	0	18.60	18.52	18.64	19.50
		12	6	18.64	18.70	18.52	19.50
		12	13	18.62	18.70	18.48	19.50
		25	0	18.75	18.59	18.77	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	20.28	20.37	20.33	21.50
		1	25	20.39	20.39	20.42	21.50
		1	49	20.42	20.40	20.42	21.50
		25	0	20.33	20.40	20.31	21.50
		25	13	20.38	20.46	20.33	21.50

		25	25	20.35	20.40	20.42	21.50	
		50	0	20.32	20.40	20.33	21.50	
		16QAM	1	0	20.54	20.67	20.61	21.50
			1	25	20.67	20.62	20.69	21.50
			1	49	20.81	20.76	20.79	21.50
			25	0	20.38	20.46	20.31	21.00
			25	13	20.42	20.42	20.37	21.00
			25	25	20.38	20.42	20.45	21.00
			50	0	20.31	20.40	20.31	21.00
	64QAM	1	0	20.39	20.47	20.51	21.00	
		1	25	20.62	20.58	20.55	21.00	
		1	49	20.55	20.65	20.74	21.00	
		25	0	20.33	20.38	20.28	21.00	
		25	13	20.42	20.40	20.38	21.00	
		25	25	20.33	20.40	20.40	21.00	
		50	0	20.27	20.37	20.33	21.00	
		256QAM	1	0	18.58	18.58	18.72	19.50
			1	25	18.39	18.57	18.49	19.50
1			49	18.62	18.58	18.78	19.50	
25			0	18.44	18.62	18.62	19.50	
25			13	18.60	18.72	18.54	19.50	
25			25	18.50	18.60	18.64	19.50	
50			0	18.47	18.63	18.49	19.50	
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up	
				20825/2507.5	21100/2535	21375/2562.5		
15MHz	QPSK	1	0	20.08	20.14	20.13	21.50	
		1	38	20.27	20.17	20.29	21.50	
		1	74	20.42	20.27	20.28	21.50	
		36	0	20.22	20.30	20.17	21.50	
		36	18	20.21	20.27	20.19	21.50	
		36	39	20.26	20.30	20.27	21.50	
		75	0	20.23	20.27	20.21	21.50	
	16QAM	1	0	20.37	20.48	20.29	21.50	
		1	38	20.49	20.62	20.42	21.50	
		1	74	20.58	20.46	20.58	21.50	
		36	0	20.24	20.27	20.19	21.00	
		36	18	20.24	20.30	20.24	21.00	
		36	39	20.26	20.31	20.30	21.00	
		75	0	20.24	20.33	20.21	21.00	
	64QAM	1	0	20.42	20.42	20.21	21.00	
		1	38	20.49	20.45	20.39	21.00	
		1	74	20.45	20.40	20.33	21.00	
		36	0	20.20	20.24	20.15	21.00	

		36	18	20.22	20.26	20.19	21.00
		36	39	20.24	20.27	20.31	21.00
		75	0	20.24	20.27	20.17	21.00
	256QAM	1	0	18.94	18.72	18.92	19.50
		1	38	18.65	18.59	18.61	19.50
		1	74	18.74	18.70	18.68	19.50
		36	0	18.80	18.72	18.44	19.50
		36	18	18.78	18.64	18.70	19.50
		36	39	18.50	18.50	18.36	19.50
		75	0	18.69	18.49	18.57	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	20.12	20.38	20.19	21.50
		1	50	20.39	20.24	20.30	21.50
		1	99	20.46	20.31	20.32	21.50
		50	0	20.26	20.27	20.19	21.50
		50	25	20.38	20.29	20.20	21.50
		50	50	20.32	20.29	20.30	21.50
		100	0	20.35	20.32	20.22	21.50
	16QAM	1	0	20.26	20.46	20.35	21.50
		1	50	20.47	20.49	20.56	21.50
		1	99	20.54	20.42	20.73	21.50
		50	0	20.27	20.32	20.21	21.00
		50	25	20.33	20.31	20.24	21.00
		50	50	20.36	20.32	20.33	21.00
		100	0	20.38	20.33	20.26	21.00
	64QAM	1	0	20.23	20.29	20.35	21.00
		1	50	20.33	20.48	20.40	21.00
		1	99	20.48	20.62	20.49	21.00
		50	0	20.27	20.30	20.21	21.00
		50	25	20.35	20.32	20.24	21.00
		50	50	20.32	20.33	20.31	21.00
		100	0	20.37	20.32	20.22	21.00
	256QAM	1	0	18.82	18.78	18.80	19.50
		1	50	18.45	18.53	18.49	19.50
		1	99	18.70	18.74	18.64	19.50
		50	0	18.76	18.80	18.66	19.50
		50	25	18.60	18.80	18.72	19.50
		50	50	18.46	18.72	18.62	19.50
		100	0	18.73	18.61	18.67	19.50
LTE Band 7							
Receiver on--Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)			

		RB Allocation		20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	16.26	16.32	16.33	17.30
		1	13	16.38	16.39	16.39	17.30
		1	24	16.35	16.36	16.35	17.30
		12	0	16.34	16.30	16.36	17.30
		12	6	16.43	16.36	16.40	17.30
		12	13	16.35	16.35	16.36	17.30
		25	0	16.33	16.31	16.35	17.30
	16QAM	1	0	16.58	16.66	16.65	17.30
		1	13	16.71	16.76	16.72	17.30
		1	24	16.80	16.70	16.79	17.30
		12	0	16.37	16.37	16.44	17.30
		12	6	16.44	16.40	16.47	17.30
		12	13	16.46	16.36	16.42	17.30
		25	0	16.39	16.37	16.37	17.30
	64QAM	1	0	16.55	16.47	16.57	17.30
		1	13	16.56	16.56	16.59	17.30
		1	24	16.56	16.46	16.49	17.30
		12	0	16.38	16.36	16.38	17.30
		12	6	16.38	16.41	16.38	17.30
		12	13	16.40	16.38	16.42	17.30
		25	0	16.35	16.35	16.39	17.30
	256QAM	1	0	16.38	16.46	16.46	17.30
		1	13	16.34	16.36	16.50	17.30
		1	24	16.53	16.27	16.35	17.30
		12	0	16.31	16.41	16.25	17.30
		12	6	16.37	16.31	16.27	17.30
		12	13	16.34	16.24	16.46	17.30
		25	0	16.21	16.41	16.37	17.30
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
10MHz	QPSK	1	0	16.34	16.28	16.35	17.30
		1	25	16.40	16.35	16.42	17.30
		1	49	16.43	16.35	16.41	17.30
		25	0	16.34	16.36	16.34	17.30
		25	13	16.36	16.42	16.37	17.30
		25	25	16.42	16.41	16.40	17.30
		50	0	16.32	16.34	16.28	17.30
	16QAM	1	0	16.53	16.61	16.76	17.30
		1	25	16.73	16.70	16.70	17.30
		1	49	16.73	16.69	16.80	17.30
		25	0	16.42	16.40	16.39	17.30

			25	13	16.40	16.43	16.38	17.30
			25	25	16.43	16.41	16.44	17.30
			50	0	16.33	16.39	16.31	17.30
		64QAM	1	0	16.44	16.48	16.54	17.30
			1	25	16.58	16.55	16.64	17.30
			1	49	16.40	16.54	16.57	17.30
			25	0	16.37	16.35	16.31	17.30
			25	13	16.39	16.38	16.40	17.30
			25	25	16.40	16.37	16.43	17.30
			50	0	16.30	16.37	16.29	17.30
	256QAM		1	0	16.40	16.38	16.14	17.30
			1	25	16.44	16.24	16.28	17.30
			1	49	16.25	16.17	16.17	17.30
			25	0	16.23	16.13	16.31	17.30
			25	13	16.11	16.11	16.31	17.30
			25	25	16.26	16.20	16.28	17.30
			50	0	16.29	16.25	16.13	17.30
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK		1	0	16.09	16.23	16.15	17.30
			1	38	16.25	16.15	16.27	17.30
			1	74	16.22	16.30	16.38	17.30
			36	0	16.22	16.21	16.18	17.30
			36	18	16.27	16.25	16.21	17.30
			36	39	16.26	16.26	16.28	17.30
			75	0	16.28	16.26	16.19	17.30
			1	0	16.26	16.41	16.49	17.30
			1	38	16.55	16.51	16.34	17.30
			1	74	16.60	16.40	16.46	17.30
			36	0	16.24	16.23	16.20	17.30
			36	18	16.29	16.26	16.25	17.30
			36	39	16.28	16.27	16.32	17.30
			75	0	16.27	16.25	16.19	17.30
	16QAM		1	0	16.28	16.20	16.32	17.30
			1	38	16.52	16.20	16.28	17.30
			1	74	16.38	16.31	16.38	17.30
			36	0	16.25	16.23	16.20	17.30
			36	18	16.30	16.28	16.23	17.30
			36	39	16.26	16.24	16.32	17.30
			75	0	16.30	16.23	16.18	17.30
			1	0	16.50	16.12	16.22	17.30
	256QAM		1	38	16.46	16.48	16.40	17.30
			1	74	16.23	16.19	16.55	17.30

		36	0	16.33	16.37	16.31	17.30
		36	18	16.19	16.17	16.17	17.30
		36	39	16.24	16.18	16.20	17.30
		75	0	16.09	16.11	16.27	17.30
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	16.10	16.07	16.08	17.30
		1	50	16.39	16.26	16.28	17.30
		1	99	16.48	16.31	16.34	17.30
		50	0	16.26	16.25	16.17	17.30
		50	25	16.26	16.29	16.27	17.30
		50	50	16.66	16.31	16.34	17.30
		100	0	16.29	16.28	16.22	17.30
	16QAM	1	0	16.36	16.37	16.40	17.30
		1	50	16.67	16.48	16.59	17.30
		1	99	16.66	16.55	16.51	17.30
		50	0	16.28	16.24	16.23	17.30
		50	25	16.25	16.30	16.30	17.30
		50	50	16.34	16.32	16.35	17.30
		100	0	16.24	16.25	16.24	17.30
	64QAM	1	0	16.25	16.30	16.36	17.30
		1	50	16.49	16.40	16.31	17.30
		1	99	16.58	16.37	16.50	17.30
		50	0	16.29	16.29	16.17	17.30
		50	25	16.24	16.27	16.28	17.30
		50	50	16.34	16.32	16.33	17.30
		100	0	16.27	16.27	16.20	17.30
	256QAM	1	0	16.18	16.46	16.18	17.30
		1	50	16.54	16.44	16.52	17.30
		1	99	16.35	16.37	16.45	17.30
		50	0	16.35	16.47	16.39	17.30
		50	25	16.27	16.33	16.39	17.30
		50	50	16.36	16.32	16.34	17.30
		100	0	16.33	16.17	16.33	17.30
LTE Band 7							
Receiver off--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	17.99	18.02	18.06	19.30
		1	13	18.10	18.08	18.08	19.30
		1	24	18.10	18.07	18.07	19.30
		12	0	18.05	18.04	18.08	19.30
		12	6	18.08	18.08	18.14	19.30

			12	13	18.08	18.10	18.08	19.30
			25	0	18.06	18.04	18.08	19.30
		16QAM	1	0	18.48	18.44	18.32	19.30
			1	13	18.65	18.48	18.55	19.30
			1	24	18.48	18.32	18.42	19.30
			12	0	18.08	18.06	18.12	19.30
			12	6	18.17	18.12	18.14	19.30
			12	13	18.14	18.11	18.11	19.30
			25	0	18.08	18.07	18.15	19.30
		64QAM	1	0	18.32	18.21	18.32	19.30
			1	13	18.19	18.20	18.31	19.30
			1	24	18.37	18.26	18.26	19.30
			12	0	18.12	18.08	18.13	19.30
			12	6	18.12	18.17	18.13	19.30
			12	13	18.15	18.05	18.11	19.30
			25	0	18.10	18.06	18.12	19.30
		256QAM	1	0	17.55	17.67	17.59	18.80
			1	13	17.39	17.51	17.75	18.80
			1	24	17.73	17.69	17.45	18.80
			12	0	17.40	17.36	17.24	18.80
			12	6	17.50	17.48	17.40	18.80
			12	13	17.68	17.56	17.64	18.80
			25	0	17.60	17.38	17.26	18.80
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20800/2505	21100/2535	21400/2565	
10MHz		QPSK	1	0	18.02	18.08	18.08	19.30
			1	25	18.08	18.13	18.15	19.30
			1	49	18.12	18.08	18.15	19.30
			25	0	18.08	18.08	18.03	19.30
			25	13	18.07	18.11	18.05	19.30
			25	25	18.07	18.07	18.13	19.30
			50	0	18.05	18.06	18.05	19.30
		16QAM	1	0	18.29	18.44	18.40	19.30
			1	25	18.40	18.27	18.47	19.30
			1	49	18.36	18.36	18.45	19.30
			25	0	18.11	18.08	18.03	19.30
			25	13	18.11	18.15	18.10	19.30
			25	25	18.12	18.12	18.15	19.30
			50	0	18.10	18.10	18.05	19.30
		64QAM	1	0	18.12	18.22	18.33	19.30
			1	25	18.26	18.31	18.17	19.30
			1	49	18.23	18.24	18.33	19.30
			25	0	18.14	18.08	18.05	19.30

			25	13	18.08	18.11	18.10	19.30
			25	25	18.13	18.12	18.17	19.30
			50	0	18.08	18.12	18.07	19.30
		256QAM	1	0	17.57	17.69	17.73	18.80
			1	25	17.35	17.45	17.55	18.80
			1	49	17.83	17.61	17.61	18.80
			25	0	17.58	17.24	17.30	18.80
			25	13	17.36	17.60	17.36	18.80
			25	25	17.60	17.52	17.66	18.80
			50	0	17.50	17.66	17.48	18.80
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20825/2507.5	21100/2535	21375/2562.5	
15MHz		QPSK	1	0	17.86	17.82	17.90	19.30
			1	38	17.97	17.92	17.87	19.30
			1	74	18.06	17.89	17.94	19.30
			36	0	17.95	17.92	17.87	19.30
			36	18	18.01	17.94	17.90	19.30
			36	39	17.95	17.97	17.98	19.30
			75	0	18.02	17.99	17.92	19.30
		16QAM	1	0	18.05	18.17	18.12	19.30
			1	38	18.31	18.21	18.24	19.30
			1	74	18.40	18.17	18.21	19.30
			36	0	17.97	17.92	17.89	19.30
			36	18	18.06	17.96	17.90	19.30
			36	39	17.97	17.95	18.02	19.30
			75	0	18.04	17.95	17.90	19.30
		64QAM	1	0	18.19	18.05	18.07	19.30
			1	38	18.29	18.05	18.02	19.30
			1	74	18.11	18.08	18.13	19.30
			36	0	17.92	17.97	17.85	19.30
			36	18	18.03	17.99	17.86	19.30
			36	39	18.01	17.96	17.98	19.30
			75	0	18.05	17.98	17.92	19.30
		256QAM	1	0	17.69	17.65	17.53	18.80
			1	38	17.69	17.79	17.77	18.80
			1	74	17.75	17.49	17.79	18.80
			36	0	17.56	17.30	17.56	18.80
			36	18	17.42	17.54	17.60	18.80
			36	39	17.72	17.66	17.46	18.80
			75	0	17.68	17.66	17.48	18.80
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20850/2510	21100/2535	21350/2560	
20MHz		QPSK	1	0	17.89	17.89	17.78	19.30

			1	50	18.15	18.01	17.87	19.30
			1	99	18.11	18.08	17.90	19.30
			50	0	17.99	17.97	17.90	19.30
			50	25	17.99	17.99	18.02	19.30
			50	50	17.99	18.01	18.04	19.30
			100	0	17.99	17.99	17.92	19.30
		16QAM	1	0	18.14	18.10	18.19	19.30
			1	50	18.15	18.22	18.26	19.30
			1	99	18.20	18.24	18.33	19.30
			50	0	17.98	17.95	17.89	19.30
			50	25	17.98	17.99	18.02	19.30
			50	50	18.06	18.01	18.01	19.30
			100	0	17.99	17.96	17.92	19.30
	64QAM		1	0	18.10	18.26	18.17	19.30
			1	50	18.19	18.06	18.11	19.30
			1	99	18.28	18.24	18.15	19.30
			50	0	17.99	17.97	17.90	19.30
			50	25	17.97	17.99	18.04	19.30
			50	50	18.02	17.97	18.04	19.30
			100	0	18.04	17.95	17.96	19.30
			1	0	17.57	17.65	17.63	18.80
	256QAM		1	50	17.53	17.61	17.69	18.80
			1	99	17.71	17.59	17.63	18.80
			50	0	17.38	17.32	17.42	18.80
			50	25	17.42	17.66	17.52	18.80
			50	50	17.68	17.70	17.58	18.80
			100	0	17.56	17.54	17.40	18.80

LTE Band 7

Hotspot on--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	13.60	13.68	13.68	14.80
		1	13	13.67	13.80	13.77	14.80
		1	24	13.69	13.73	13.72	14.80
		12	0	13.62	13.70	13.72	14.80
		12	6	13.70	13.77	13.73	14.80
		12	13	13.67	13.70	13.73	14.80
		25	0	13.66	13.70	13.68	14.80
	16QAM	1	0	13.83	14.04	13.93	14.80
		1	13	13.91	13.91	14.05	14.80
		1	24	13.97	13.98	13.90	14.80
		12	0	13.57	13.61	13.62	14.80
		12	6	13.66	13.64	13.70	14.80

		12	13	13.67	13.63	13.71	14.80
		25	0	13.63	13.57	13.65	14.80
	64QAM	1	0	13.80	13.75	13.82	14.80
		1	13	13.85	13.95	13.78	14.80
		1	24	13.84	13.86	13.75	14.80
		12	0	13.60	13.54	13.59	14.80
		12	6	13.65	13.66	13.70	14.80
		12	13	13.68	13.60	13.66	14.80
		25	0	13.61	13.59	13.63	14.80
		256QAM	1	0	13.81	13.75	13.81
	1		13	13.81	13.77	13.57	14.80
	1		24	13.82	13.78	13.84	14.80
	12		0	13.45	13.57	13.61	14.80
	12		6	13.60	13.68	13.52	14.80
	12		13	13.71	13.49	13.57	14.80
	25		0	13.41	13.41	13.67	14.80
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	13.64	13.70	13.72	14.80
		1	25	13.67	13.73	13.73	14.80
		1	49	13.74	13.71	13.76	14.80
		25	0	13.69	13.75	13.65	14.80
		25	13	13.73	13.77	13.68	14.80
		25	25	13.78	13.75	13.71	14.80
		50	0	13.73	13.71	13.65	14.80
	16QAM	1	0	13.78	13.92	13.96	14.80
		1	25	13.88	13.98	13.97	14.80
		1	49	13.96	13.87	14.01	14.80
		25	0	13.66	13.63	13.61	14.80
		25	13	13.64	13.67	13.65	14.80
		25	25	13.67	13.67	13.72	14.80
		50	0	13.55	13.59	13.60	14.80
	64QAM	1	0	13.69	13.69	13.63	14.80
		1	25	13.72	13.84	13.89	14.80
		1	49	13.86	13.79	13.82	14.80
		25	0	13.59	13.60	13.61	14.80
		25	13	13.66	13.65	13.67	14.80
		25	25	13.62	13.65	13.71	14.80
		50	0	13.57	13.62	13.58	14.80
	256QAM	1	0	13.65	13.57	13.53	14.80
		1	25	13.49	13.61	13.53	14.80
		1	49	13.64	13.72	13.70	14.80
		25	0	13.53	13.55	13.53	14.80

		25	13	13.54	13.60	13.64	14.80
		25	25	13.59	13.59	13.65	14.80
		50	0	13.61	13.33	13.53	14.80
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	13.41	13.54	13.38	14.80
		1	38	13.52	13.64	13.51	14.80
		1	74	13.58	13.52	13.57	14.80
		36	0	13.56	13.59	13.50	14.80
		36	18	13.62	13.63	13.56	14.80
		36	39	13.66	13.63	13.59	14.80
		75	0	13.58	13.61	13.51	14.80
	16QAM	1	0	13.80	13.61	13.59	14.80
		1	38	13.85	13.64	13.59	14.80
		1	74	13.75	13.69	13.64	14.80
		36	0	13.50	13.47	13.39	14.80
		36	18	13.56	13.49	13.46	14.80
		36	39	13.56	13.54	13.52	14.80
		75	0	13.54	13.51	13.46	14.80
	64QAM	1	0	13.56	13.66	13.39	14.80
		1	38	13.60	13.63	13.42	14.80
		1	74	13.84	13.49	13.73	14.80
		36	0	13.47	13.49	13.45	14.80
		36	18	13.55	13.46	13.49	14.80
		36	39	13.52	13.52	13.55	14.80
		75	0	13.57	13.49	13.48	14.80
	256QAM	1	0	13.63	13.67	13.75	14.80
		1	38	13.77	13.87	13.85	14.80
		1	74	14.02	13.70	13.74	14.80
		36	0	13.45	13.55	13.35	14.80
		36	18	13.58	13.58	13.66	14.80
		36	39	13.79	13.51	13.55	14.80
		75	0	13.57	13.69	13.41	14.80
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	13.51	13.51	13.46	14.80
		1	50	13.61	13.63	13.53	14.80
		1	99	13.75	13.58	13.59	14.80
		50	0	13.58	13.60	13.50	14.80
		50	25	13.66	13.66	13.61	14.80
		50	50	13.71	13.67	13.60	14.80
		100	0	13.63	13.65	13.55	14.80
	16QAM	1	0	13.50	13.62	13.79	14.80

		1	50	13.81	13.79	13.78	14.80
		1	99	13.89	13.90	13.85	14.80
		50	0	13.52	13.57	13.47	14.80
		50	25	13.51	13.54	13.53	14.80
		50	50	13.58	13.56	13.60	14.80
		100	0	13.53	13.53	13.50	14.80
	64QAM	1	0	13.58	13.69	13.65	14.80
		1	50	13.65	13.73	13.67	14.80
		1	99	13.87	13.81	13.80	14.80
		50	0	13.56	13.52	13.47	14.80
		50	25	13.54	13.57	13.54	14.80
		50	50	13.60	13.58	13.57	14.80
		100	0	13.50	13.52	13.51	14.80
	256QAM	1	0	13.67	13.75	13.65	14.80
		1	50	13.61	13.67	13.85	14.80
		1	99	13.88	13.88	13.76	14.80
		50	0	13.47	13.61	13.43	14.80
		50	25	13.56	13.56	13.72	14.80
		50	50	13.57	13.51	13.57	14.80
		100	0	13.63	13.51	13.53	14.80

LTE Band 7

Receiver on--Ant4				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	15.46	16.11	15.61	17.00
		1	13	15.98	15.91	15.83	17.00
		1	24	16.32	15.73	15.68	17.00
		12	0	16.00	16.04	15.82	17.00
		12	6	16.06	15.86	15.76	17.00
		12	13	16.15	15.97	15.78	17.00
		25	0	15.95	16.00	15.60	17.00
	16QAM	1	0	15.64	15.48	15.48	17.00
		1	13	16.21	16.05	16.13	17.00
		1	24	16.19	16.31	16.01	17.00
		12	0	15.97	15.87	15.93	17.00
		12	6	16.10	15.98	16.12	17.00
		12	13	15.68	15.80	15.56	17.00
		25	0	15.87	16.05	16.03	17.00
	64QAM	1	0	15.57	15.79	15.81	17.00
		1	13	16.12	16.08	16.20	17.00
		1	24	15.78	15.74	15.82	17.00
		12	0	15.74	15.94	15.78	17.00
		12	6	16.21	16.15	16.05	17.00

		12	13	16.31	16.27	16.17	17.00
		25	0	16.01	16.11	15.93	17.00
	256QAM	1	0	15.69	15.95	15.67	17.00
		1	13	15.68	15.86	15.62	17.00
		1	24	15.59	15.57	15.57	17.00
		12	0	15.90	15.64	15.74	17.00
		12	6	15.93	16.07	16.07	17.00
		12	13	15.99	15.93	15.89	17.00
		25	0	16.07	15.89	15.85	17.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	15.52	16.01	15.93	17.00
		1	25	16.14	15.71	15.91	17.00
		1	49	16.06	15.89	15.58	17.00
		25	0	15.98	15.94	15.74	17.00
		25	13	15.98	16.08	15.92	17.00
		25	25	16.11	15.83	15.86	17.00
		50	0	16.05	15.96	15.52	17.00
	16QAM	1	0	15.36	15.48	15.52	17.00
		1	25	16.35	15.91	16.33	17.00
		1	49	15.87	16.27	15.95	17.00
		25	0	15.69	15.87	16.21	17.00
		25	13	16.28	16.00	15.84	17.00
		25	25	15.80	15.56	15.72	17.00
		50	0	16.05	16.27	16.11	17.00
	64QAM	1	0	15.69	15.55	15.97	17.00
		1	25	16.04	16.06	16.10	17.00
		1	49	15.66	15.86	15.92	17.00
		25	0	15.88	16.08	15.92	17.00
		25	13	16.17	16.05	15.81	17.00
		25	25	16.17	16.27	16.31	17.00
		50	0	16.05	16.37	15.99	17.00
	256QAM	1	0	15.81	15.95	15.85	17.00
		1	25	15.78	15.72	15.72	17.00
		1	49	15.37	15.65	15.59	17.00
		25	0	15.90	15.72	15.82	17.00
		25	13	16.19	16.05	16.19	17.00
		25	25	15.93	16.15	15.77	17.00
		50	0	16.13	16.17	16.03	17.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	15.22	16.07	15.69	17.00
		1	38	16.04	15.79	15.91	17.00

			1	74	16.20	15.77	15.56	17.00
			36	0	15.96	16.02	15.82	17.00
			36	18	15.96	15.88	15.90	17.00
			36	39	16.30	16.07	15.70	17.00
			75	0	15.97	15.74	15.70	17.00
		16QAM	1	0	15.46	15.50	15.42	17.00
			1	38	16.07	15.97	16.25	17.00
			1	74	16.03	16.13	15.93	17.00
			36	0	15.91	15.97	16.13	17.00
			36	18	16.18	16.08	16.00	17.00
			36	39	15.80	15.76	15.54	17.00
			75	0	16.07	16.25	16.25	17.00
		64QAM	1	0	15.57	15.77	15.97	17.00
			1	38	15.96	16.10	16.20	17.00
			1	74	15.72	15.72	15.74	17.00
			36	0	15.78	16.08	15.76	17.00
			36	18	15.93	15.99	16.01	17.00
			36	39	16.13	16.35	16.27	17.00
			75	0	16.05	16.07	16.05	17.00
	256QAM		1	0	15.91	15.87	15.85	17.00
			1	38	15.80	15.88	15.58	17.00
			1	74	15.69	15.75	15.49	17.00
			36	0	15.76	15.70	15.78	17.00
			36	18	16.15	15.91	16.21	17.00
			36	39	15.79	16.03	15.87	17.00
			75	0	15.81	15.95	16.03	17.00
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20850/2510	21100/2535	21350/2560	
20MHz		QPSK	1	0	15.30	16.03	15.71	17.00
			1	50	16.02	15.85	15.73	17.00
			1	99	16.24	15.81	15.62	17.00
			50	0	15.84	16.02	15.70	17.00
			50	25	16.02	15.96	15.80	17.00
			50	50	16.21	15.91	15.78	17.00
			100	0	16.08	15.99	15.78	17.00
		16QAM	1	0	15.54	15.48	15.48	17.00
			1	50	16.15	16.09	16.23	17.00
			1	99	16.05	16.19	15.99	17.00
			50	0	15.87	15.89	15.99	17.00
			50	25	16.10	16.06	15.98	17.00
			50	50	15.70	15.64	15.66	17.00
			100	0	15.91	16.09	16.07	17.00
		64QAM	1	0	15.67	15.65	15.85	17.00

		1	50	16.00	16.14	16.10	17.00
		1	99	15.72	15.80	15.78	17.00
		50	0	15.82	15.98	15.86	17.00
		50	25	16.05	16.05	15.93	17.00
		50	50	16.15	16.33	16.27	17.00
		100	0	15.99	16.17	15.93	17.00
	256QAM	1	0	15.73	15.91	15.67	17.00
		1	50	15.70	15.88	15.62	17.00
		1	99	15.55	15.63	15.59	17.00
		50	0	15.76	15.66	15.66	17.00
		50	25	15.99	15.93	16.11	17.00
		50	50	15.85	15.95	15.93	17.00
	100	0	15.91	15.99	15.91	17.00	
LTE Band 7							
Receiver off--Ant4				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	20.10	20.13	19.72	21.30
		1	13	20.02	19.82	19.64	21.30
		1	24	20.24	19.93	19.42	21.30
		12	0	19.98	20.10	19.75	21.30
		12	6	20.14	19.83	19.74	21.30
		12	13	20.18	19.95	19.82	21.30
		25	0	19.93	19.73	19.50	21.30
	16QAM	1	0	19.60	19.44	19.80	21.30
		1	13	20.21	20.21	19.74	21.30
		1	24	20.62	20.32	20.56	21.30
		12	0	19.85	19.83	19.99	21.30
		12	6	20.14	20.06	20.22	21.30
		12	13	20.20	20.30	20.16	21.30
		25	0	19.92	20.18	20.00	21.30
	64QAM	1	0	19.50	19.78	19.62	21.30
		1	13	20.23	20.15	20.17	21.30
		1	24	20.35	20.43	20.41	21.30
		12	0	19.76	19.74	19.92	21.30
		12	6	19.61	19.87	19.73	21.30
		12	13	19.81	19.63	20.03	21.30
		25	0	19.69	19.85	19.63	21.30
	256QAM	1	0	16.94	16.76	16.88	18.50
		1	13	16.82	16.78	17.02	18.50
		1	24	17.11	17.05	17.45	18.50
		12	0	17.09	17.13	17.35	18.50
		12	6	17.24	17.38	17.30	18.50

		12	13	16.89	16.75	16.97	18.50
		25	0	16.96	16.86	16.90	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	19.31	19.93	19.82	21.30
		1	25	19.92	19.92	19.76	21.30
		1	49	20.44	19.93	19.40	21.30
		25	0	19.76	20.06	19.69	21.30
		25	13	20.00	19.95	19.74	21.30
		25	25	20.32	19.91	19.82	21.30
		50	0	19.85	19.85	19.46	21.30
	16QAM	1	0	19.50	19.70	19.70	21.30
		1	25	20.37	20.29	19.86	21.30
		1	49	20.54	20.52	20.36	21.30
		25	0	19.97	19.97	20.05	21.30
		25	13	20.08	20.08	20.04	21.30
		25	25	20.14	20.14	20.06	21.30
		50	0	20.06	20.10	19.84	21.30
	64QAM	1	0	19.78	19.62	19.38	21.30
		1	25	20.41	20.37	20.03	21.30
		1	49	20.37	20.41	20.57	21.30
		25	0	19.80	19.84	19.78	21.30
		25	13	19.57	19.81	19.81	21.30
		25	25	19.83	19.69	20.07	21.30
		50	0	19.63	19.79	19.69	21.30
	256QAM	1	0	17.00	16.62	16.94	18.50
		1	25	16.84	16.94	16.98	18.50
		1	49	17.13	16.99	17.39	18.50
		25	0	16.97	17.29	17.29	18.50
		25	13	17.38	17.34	17.06	18.50
		25	25	16.67	16.91	17.19	18.50
		50	0	16.98	16.66	16.82	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	19.53	20.21	19.58	21.30
		1	38	20.14	19.88	19.68	21.30
		1	74	20.42	19.87	19.36	21.30
		36	0	19.78	19.86	19.81	21.30
		36	18	20.20	20.03	19.84	21.30
		36	39	20.22	19.95	19.54	21.30
		75	0	19.89	19.97	19.50	21.30
	16QAM	1	0	19.66	19.64	19.74	21.30
		1	38	20.21	20.21	19.80	21.30

			1	74	20.62	20.52	20.60	21.30
			36	0	19.91	19.95	20.01	21.30
			36	18	20.08	19.98	20.02	21.30
			36	39	20.10	20.20	20.32	21.30
			75	0	19.80	20.18	19.82	21.30
		64QAM	1	0	19.68	19.90	19.56	21.30
			1	38	20.37	20.41	20.09	21.30
			1	74	20.59	20.55	20.37	21.30
			36	0	19.70	19.70	19.72	21.30
			36	18	19.61	19.65	19.81	21.30
			36	39	19.89	19.85	19.81	21.30
			75	0	19.83	19.79	19.81	21.30
		256QAM	1	0	17.02	16.70	16.76	18.50
			1	38	16.98	16.88	17.16	18.50
			1	74	17.21	17.07	17.39	18.50
			36	0	17.23	17.15	17.21	18.50
			36	18	17.18	17.28	17.20	18.50
			36	39	17.01	16.77	17.01	18.50
			75	0	16.78	16.78	16.94	18.50
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20850/2510	21100/2535	21350/2560	
20MHz		QPSK	1	0	19.33	20.05	19.60	21.30
			1	50	19.96	19.84	19.62	21.30
			1	99	20.24	19.81	19.46	21.30
			50	0	19.82	19.98	19.63	21.30
			50	25	20.02	19.91	19.78	21.30
			50	50	20.16	19.87	19.66	21.30
			100	0	19.97	19.81	19.58	21.30
		16QAM	1	0	19.58	19.52	19.74	21.30
			1	50	20.19	20.09	19.80	21.30
			1	99	20.46	20.38	20.42	21.30
			50	0	19.83	19.81	19.97	21.30
			50	25	20.04	20.06	20.12	21.30
			50	50	20.14	20.26	20.24	21.30
			100	0	19.92	20.02	19.84	21.30
		64QAM	1	0	19.56	19.74	19.52	21.30
			1	50	20.19	20.25	20.13	21.30
			1	99	20.43	20.53	20.43	21.30
			50	0	19.70	19.78	19.84	21.30
			50	25	19.69	19.75	19.79	21.30
			50	50	19.83	19.73	19.93	21.30
			100	0	19.65	19.81	19.69	21.30
		256QAM	1	0	16.88	16.78	16.80	18.50

		1	50	16.90	16.88	17.00	18.50
		1	99	17.21	17.09	17.29	18.50
		50	0	17.11	17.21	17.19	18.50
		50	25	17.26	17.22	17.14	18.50
		50	50	16.85	16.75	16.97	18.50
		100	0	16.88	16.76	16.78	18.50
LTE Band 7							
Hotspot on--Ant4				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	13.91	14.66	14.30	15.00
		1	13	14.78	14.60	14.37	15.00
		1	24	14.93	14.49	14.14	15.00
		12	0	14.41	14.67	14.27	15.00
		12	6	14.68	14.56	14.59	15.00
		12	13	14.95	14.68	14.49	15.00
		25	0	14.49	14.55	14.33	15.00
	16QAM	1	0	14.20	14.08	14.04	15.00
		1	13	14.62	14.78	14.52	15.00
		1	24	14.47	14.51	14.35	15.00
		12	0	14.38	14.38	14.48	15.00
		12	6	14.76	14.78	14.62	15.00
		12	13	14.85	14.75	14.58	15.00
		25	0	14.51	14.59	14.53	15.00
	64QAM	1	0	14.17	14.11	14.39	15.00
		1	13	14.60	14.48	14.76	15.00
		1	24	14.79	14.69	14.73	15.00
		12	0	14.34	14.44	14.42	15.00
		12	6	14.70	14.76	14.44	15.00
		12	13	14.92	14.57	14.82	15.00
		25	0	14.70	14.90	14.46	15.00
	256QAM	1	0	14.42	14.26	14.26	15.00
		1	13	14.11	14.11	14.35	15.00
		1	24	14.26	14.30	14.52	15.00
		12	0	14.76	14.54	14.44	15.00
		12	6	14.58	14.54	14.54	15.00
		12	13	14.78	14.86	14.78	15.00
		25	0	14.49	14.55	14.49	15.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	13.93	14.62	14.22	15.00
		1	25	14.62	14.50	14.15	15.00
		1	49	14.81	14.55	13.96	15.00

			25	0	14.43	14.63	14.43	15.00
			25	13	14.52	14.78	14.49	15.00
			25	25	14.87	14.46	14.59	15.00
			50	0	14.81	14.57	14.33	15.00
		16QAM	1	0	14.08	14.16	14.10	15.00
			1	25	14.64	14.74	14.52	15.00
			1	49	14.55	14.51	14.37	15.00
			25	0	14.44	14.60	14.40	15.00
			25	13	14.60	14.54	14.70	15.00
			25	25	14.73	14.83	14.88	15.00
		64QAM	50	0	14.63	14.45	14.65	15.00
			1	0	14.39	13.97	14.35	15.00
	1		25	14.56	14.50	14.62	15.00	
	1		49	14.81	14.79	14.47	15.00	
	25		0	14.26	14.32	14.16	15.00	
	25		13	14.78	14.82	14.38	15.00	
	25		25	14.84	14.85	14.84	15.00	
		50	0	14.38	14.80	14.50	15.00	
		256QAM	1	0	14.54	14.02	14.34	15.00
			1	25	14.27	14.07	14.21	15.00
			1	49	14.24	14.04	14.58	15.00
			25	0	14.78	14.60	14.28	15.00
			25	13	14.30	14.76	14.64	15.00
			25	25	14.54	14.78	14.58	15.00
	50		0	14.53	14.29	14.41	15.00	
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up	
				20825/2507.5	21100/2535	21375/2562.5		
15MHz	QPSK	1	0	14.01	14.64	14.42	15.00	
		1	38	14.54	14.50	14.21	15.00	
		1	74	14.93	14.47	14.02	15.00	
		36	0	14.39	14.63	14.41	15.00	
		36	18	14.54	14.48	14.55	15.00	
		36	39	14.71	14.66	14.55	15.00	
		75	0	14.51	14.59	14.29	15.00	
	16QAM	1	0	14.20	14.34	13.96	15.00	
		1	38	14.78	14.66	14.72	15.00	
		1	74	14.45	14.51	14.51	15.00	
		36	0	14.36	14.48	14.52	15.00	
		36	18	14.76	14.68	14.84	15.00	
		36	39	14.77	14.67	14.72	15.00	
		75	0	14.47	14.47	14.37	15.00	
	64QAM	1	0	14.17	14.21	14.35	15.00	
		1	38	14.50	14.40	14.76	15.00	

		1	74	14.65	14.63	14.71	15.00	
		36	0	14.42	14.44	14.40	15.00	
		36	18	14.62	14.84	14.54	15.00	
		36	39	14.94	14.61	14.88	15.00	
		75	0	14.64	14.88	14.62	15.00	
		256QAM	1	0	14.50	14.28	14.42	15.00
			1	38	14.13	14.11	14.45	15.00
			1	74	14.42	14.26	14.56	15.00
			36	0	14.80	14.38	14.62	15.00
			36	18	14.64	14.66	14.82	15.00
	36		39	14.70	14.80	14.80	15.00	
	75	0	14.35	14.29	14.25	15.00		
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	13.41	14.18	13.74	15.00	
		1	50	14.12	14.06	13.75	15.00	
		1	99	14.37	13.99	13.64	15.00	
		50	0	13.93	14.15	13.81	15.00	
		50	25	14.14	14.10	13.95	15.00	
		50	50	14.29	14.02	13.87	15.00	
		100	0	14.09	14.07	13.75	15.00	
	16QAM	1	0	13.70	13.68	13.58	15.00	
		1	50	14.10	14.18	14.08	15.00	
		1	99	13.95	13.93	13.91	15.00	
		50	0	13.94	13.94	13.94	15.00	
		50	25	14.16	14.16	14.34	15.00	
		50	50	14.29	14.29	14.45	15.00	
		100	0	14.03	13.95	13.97	15.00	
	64QAM	1	0	13.67	13.59	13.81	15.00	
		1	50	14.00	14.00	14.12	15.00	
		1	99	14.19	14.11	14.13	15.00	
		50	0	13.92	13.88	13.84	15.00	
		50	25	14.12	14.30	14.02	15.00	
		50	50	14.28	14.15	14.34	15.00	
		100	0	14.06	14.24	14.06	15.00	
	256QAM	1	0	13.82	13.76	13.70	15.00	
		1	50	13.61	13.71	13.73	15.00	
		1	99	13.78	13.68	13.92	15.00	
		50	0	14.10	14.02	14.04	15.00	
		50	25	14.00	14.00	14.10	15.00	
		50	50	14.22	14.20	14.14	15.00	
		100	0	13.91	13.93	13.85	15.00	

LTE Band 12							
Receiver on& Receiver off--Ant1				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	24.34	24.20	24.23	25.00
		1	2	24.32	24.29	24.32	25.00
		1	5	24.22	24.25	24.24	25.00
		3	0	24.32	24.27	24.27	25.00
		3	2	24.30	24.30	24.25	25.00
		3	3	24.30	24.31	24.25	25.00
		6	0	23.32	23.23	23.27	24.00
	16QAM	1	0	23.64	23.64	23.58	24.00
		1	2	23.55	23.76	23.70	24.00
		1	5	23.57	23.57	23.74	24.00
		3	0	23.49	23.43	23.46	24.00
		3	2	23.41	23.47	23.41	24.00
		3	3	23.43	23.38	23.42	24.00
		6	0	22.43	22.31	22.37	23.00
	64QAM	1	0	22.48	22.47	22.38	23.00
		1	2	22.56	22.62	22.51	23.00
		1	5	22.32	22.50	22.45	23.00
		3	0	22.37	22.35	22.42	23.00
		3	2	22.37	22.42	22.36	23.00
		3	3	22.44	22.40	22.32	23.00
		6	0	21.36	21.33	21.27	22.00
	256QAM	1	0	19.12	19.10	19.04	20.00
		1	2	19.20	19.34	19.22	20.00
		1	5	19.05	18.99	19.23	20.00
		3	0	18.99	19.03	19.01	20.00
		3	2	18.97	19.11	19.09	20.00
		3	3	19.07	19.19	19.19	20.00
		6	0	19.01	19.07	19.13	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	24.26	24.21	24.23	25.00
		1	7	24.31	24.29	24.32	25.00
		1	14	24.23	24.23	24.26	25.00
		8	0	23.31	23.27	23.29	24.00
		8	4	23.37	23.38	23.31	24.00
		8	7	23.33	23.37	23.30	24.00
		15	0	23.32	23.25	23.28	24.00
	16QAM	1	0	23.63	23.66	23.64	24.00
		1	7	23.74	23.70	23.74	24.00

			1	14	23.71	23.59	23.55	24.00
			8	0	22.44	22.35	22.41	23.00
			8	4	22.43	22.46	22.43	23.00
			8	7	22.45	22.42	22.40	23.00
			15	0	22.33	22.26	22.33	23.00
		64QAM	1	0	22.58	22.52	22.40	23.00
			1	7	22.52	22.47	22.41	23.00
			1	14	22.50	22.48	22.55	23.00
			8	0	21.39	21.34	21.36	22.00
			8	4	21.41	21.39	21.35	22.00
			8	7	21.32	21.38	21.31	22.00
			15	0	21.34	21.29	21.30	22.00
		256QAM	1	0	19.10	19.02	19.04	20.00
			1	7	19.26	19.16	19.26	20.00
			1	14	19.13	19.09	19.07	20.00
			8	0	19.01	19.01	18.89	20.00
			8	4	19.13	18.85	18.91	20.00
			8	7	18.99	19.03	19.17	20.00
			15	0	19.01	19.09	18.95	20.00
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					23035/701.5	23095/707.5	23155/713.5	
5MHz		QPSK	1	0	24.24	24.24	24.28	25.00
			1	13	24.34	24.33	24.42	25.00
			1	24	24.27	24.28	24.24	25.00
			12	0	23.34	23.24	23.23	24.00
			12	6	23.36	23.41	23.27	24.00
			12	13	23.36	23.33	23.34	24.00
			25	0	23.34	23.24	23.23	24.00
		16QAM	1	0	23.74	23.64	23.64	24.00
			1	13	23.71	23.70	23.82	24.00
			1	24	23.66	23.57	23.70	24.00
			12	0	22.34	22.27	22.27	23.00
			12	6	22.39	22.41	22.33	23.00
			12	13	22.40	22.37	22.38	23.00
			25	0	22.35	22.28	22.26	23.00
		64QAM	1	0	22.39	22.49	22.44	23.00
			1	13	22.68	22.61	22.52	23.00
			1	24	22.47	22.56	22.54	23.00
			12	0	21.31	21.27	21.33	22.00
			12	6	21.39	21.38	21.29	22.00
			12	13	21.38	21.33	21.37	22.00
			25	0	21.36	21.30	21.21	22.00
		256QAM	1	0	19.20	19.36	19.06	20.00

		1	13	19.36	19.26	19.24	20.00
		1	24	18.95	19.15	19.05	20.00
		12	0	18.91	19.03	18.99	20.00
		12	6	19.15	19.01	19.21	20.00
		12	13	19.03	19.19	19.11	20.00
		25	0	19.25	19.09	19.11	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	24.29	24.18	24.32	25.00
		1	25	24.38	24.33	24.38	25.00
		1	49	24.36	24.34	24.31	25.00
		25	0	23.26	23.27	23.28	24.00
		25	13	23.38	23.31	23.37	24.00
		25	25	23.41	23.39	23.38	24.00
		50	0	23.36	23.26	23.26	24.00
	16QAM	1	0	23.74	23.63	23.77	24.00
		1	25	23.69	23.74	23.77	24.00
		1	49	23.73	23.80	23.74	24.00
		25	0	22.23	22.30	22.26	23.00
		25	13	22.40	22.33	22.38	23.00
		25	25	22.43	22.42	22.40	23.00
		50	0	22.36	22.29	22.34	23.00
	64QAM	1	0	22.60	22.34	22.62	23.00
		1	25	22.55	22.49	22.55	23.00
		1	49	22.52	22.51	22.38	23.00
		25	0	21.25	21.26	21.28	22.00
		25	13	21.38	21.33	21.39	22.00
		25	25	21.41	21.40	21.36	22.00
		50	0	21.37	21.33	21.30	22.00
	256QAM	1	0	19.26	19.02	19.26	20.00
		1	25	19.30	19.22	19.20	20.00
		1	49	19.21	19.01	19.03	20.00
		25	0	19.05	18.99	18.99	20.00
		25	13	19.21	19.17	19.19	20.00
		25	25	19.15	19.01	19.15	20.00
		50	0	18.95	19.05	19.01	20.00
LTE Band 12							
Hotspot on--Ant1				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	22.77	22.76	22.79	23.50
		1	2	22.81	22.88	22.82	23.50
		1	5	22.76	22.82	22.76	23.50

			3	0	22.81	22.82	22.83	23.50
			3	2	22.82	22.85	22.82	23.50
			3	3	22.84	22.78	22.80	23.50
			6	0	22.83	22.73	22.83	23.50
		16QAM	1	0	23.20	23.09	23.14	23.50
			1	2	23.06	23.26	23.11	23.50
			1	5	23.07	23.16	23.08	23.50
			3	0	22.88	22.98	22.98	23.50
			3	2	22.95	23.01	22.91	23.50
			3	3	22.91	22.90	22.98	23.50
			6	0	22.44	22.29	22.43	23.00
		64QAM	1	0	22.55	22.42	22.43	23.00
			1	2	22.41	22.51	22.38	23.00
			1	5	22.59	22.47	22.53	23.00
			3	0	22.40	22.41	22.44	23.00
			3	2	22.44	22.47	22.36	23.00
			3	3	22.46	22.45	22.32	23.00
			6	0	21.38	21.31	21.29	22.00
		256QAM	1	0	18.78	18.84	19.00	20.00
			1	2	18.68	18.80	19.18	20.00
			1	5	19.07	18.95	19.17	20.00
			3	0	18.76	18.80	18.84	20.00
			3	2	19.13	18.81	18.81	20.00
			3	3	19.15	18.79	19.19	20.00
			6	0	18.88	18.86	18.68	20.00
	Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					23025/700.5	23095/707.5	23165/714.5	
3MHz		QPSK	1	0	22.73	22.76	22.78	23.50
			1	7	22.87	22.83	22.87	23.50
			1	14	22.76	22.77	22.77	23.50
			8	0	22.85	22.78	22.87	23.50
			8	4	22.84	22.86	22.89	23.50
			8	7	22.85	22.83	22.86	23.50
			15	0	22.83	22.78	22.83	23.50
		16QAM	1	0	23.13	23.00	23.09	23.50
			1	7	23.19	23.17	23.25	23.50
			1	14	23.07	23.07	23.10	23.50
			8	0	22.43	22.41	22.42	23.00
			8	4	22.47	22.48	22.49	23.00
			8	7	22.43	22.51	22.42	23.00
			15	0	22.39	22.35	22.35	23.00
		64QAM	1	0	22.59	22.53	22.57	23.00
			1	7	22.67	22.61	22.59	23.00

		1	14	22.46	22.41	22.36	23.00
		8	0	21.39	21.34	21.37	22.00
		8	4	21.46	21.47	21.37	22.00
		8	7	21.37	21.40	21.33	22.00
		15	0	21.37	21.26	21.37	22.00
	256QAM	1	0	18.94	18.74	19.04	20.00
		1	7	18.72	18.88	19.16	20.00
		1	14	18.97	19.35	19.15	20.00
		8	0	18.94	18.96	18.94	20.00
		8	4	19.23	18.73	18.79	20.00
		8	7	19.33	18.73	19.21	20.00
		15	0	18.84	19.00	18.92	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	22.76	22.76	22.84	23.50
		1	13	22.88	22.88	22.92	23.50
		1	24	22.78	22.81	22.89	23.50
		12	0	22.83	22.78	22.81	23.50
		12	6	22.90	22.91	22.83	23.50
		12	13	22.84	22.88	22.88	23.50
		25	0	22.85	22.78	22.81	23.50
	16QAM	1	0	23.05	23.12	23.13	23.50
		1	13	23.29	23.20	23.32	23.50
		1	24	23.21	23.15	23.06	23.50
		12	0	22.42	22.33	22.32	23.00
		12	6	22.41	22.45	22.36	23.00
		12	13	22.42	22.39	22.38	23.00
		25	0	22.35	22.32	22.29	23.00
	64QAM	1	0	22.42	22.50	22.31	23.00
		1	13	22.54	22.55	22.52	23.00
		1	24	22.57	22.50	22.62	23.00
		12	0	21.34	21.32	21.27	22.00
		12	6	21.40	21.42	21.34	22.00
		12	13	21.41	21.38	21.39	22.00
		25	0	21.33	21.32	21.28	22.00
	256QAM	1	0	18.80	18.78	18.92	20.00
		1	13	19.00	19.16	19.16	20.00
		1	24	19.15	19.31	19.15	20.00
		12	0	19.04	18.80	18.98	20.00
		12	6	19.01	18.95	18.81	20.00
		12	13	19.15	18.99	19.11	20.00
		25	0	19.10	18.96	18.90	20.00
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)			Tune-up

		RB Allocation		23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	22.83	22.75	22.82	23.50
		1	25	22.83	22.88	22.87	23.50
		1	49	22.91	22.82	22.87	23.50
		25	0	22.76	22.78	22.77	23.50
		25	13	22.88	22.80	22.87	23.50
		25	25	22.91	22.88	22.88	23.50
		50	0	22.85	22.78	22.76	23.50
	16QAM	1	0	23.05	23.12	23.13	23.50
		1	25	23.21	23.16	23.20	23.50
		1	49	23.26	23.15	23.15	23.50
		25	0	22.33	22.32	22.30	23.00
		25	13	22.41	22.36	22.44	23.00
		25	25	22.37	22.43	22.42	23.00
		50	0	22.41	22.34	22.29	23.00
	64QAM	1	0	22.45	22.49	22.64	23.00
		1	25	22.52	22.56	22.54	23.00
		1	49	22.59	22.58	22.50	23.00
		25	0	21.28	21.32	21.31	22.00
		25	13	21.42	21.37	21.43	22.00
		25	25	21.42	21.43	21.36	22.00
		50	0	21.39	21.34	21.28	22.00
	256QAM	1	0	18.92	18.84	19.04	20.00
		1	25	18.86	18.98	19.10	20.00
		1	49	19.05	19.13	19.27	20.00
		25	0	18.86	18.88	18.86	20.00
		25	13	19.07	18.79	18.81	20.00
		25	25	19.13	18.91	19.19	20.00
		50	0	18.94	19.04	18.84	20.00

LTE Band 13							
Receiver on& Receiver off--Ant1				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	24.10	24.09	24.04	25.00
		1	13	24.11	24.20	24.13	25.00
		1	24	24.05	24.11	24.00	25.00
		12	0	23.03	23.01	22.99	24.00
		12	6	23.15	23.05	23.08	24.00
		12	13	23.10	23.11	23.03	24.00
		25	0	23.07	23.03	23.04	24.00
	16QAM	1	0	23.29	23.36	23.37	24.00
		1	13	23.43	23.39	23.46	24.00
		1	24	23.39	23.34	23.34	24.00
		12	0	22.03	22.09	22.01	23.00
		12	6	22.16	22.05	22.12	23.00
		12	13	22.14	22.15	22.10	23.00
		25	0	22.10	22.02	22.09	23.00
	64QAM	1	0	22.25	22.35	22.26	23.00
		1	13	22.32	22.13	22.35	23.00
		1	24	22.25	22.37	22.24	23.00
		12	0	21.06	21.02	21.03	22.00
		12	6	21.17	21.05	21.09	22.00
		12	13	21.09	21.11	21.09	22.00
		25	0	21.03	21.03	21.07	22.00
	256QAM	1	0	18.90	18.78	18.78	20.00
		1	13	18.91	18.77	18.87	20.00
		1	24	18.90	18.96	18.96	20.00
		12	0	18.87	18.63	18.91	20.00
		12	6	18.94	18.78	18.82	20.00
		12	13	18.69	18.85	18.63	20.00
		25	0	18.61	18.83	18.71	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	24.05	/	25.00
		1	25	/	24.13	/	25.00
		1	49	/	24.05	/	25.00
		25	0	/	23.06	/	24.00
		25	13	/	23.04	/	24.00
		25	25	/	23.08	/	24.00
		50	0	/	23.04	/	24.00
	16QAM	1	0	/	23.42	/	24.00

			1	25	/	23.41	/	24.00		
			1	49	/	23.42	/	24.00		
			25	0	/	22.07	/	23.00		
			25	13	/	22.07	/	23.00		
			25	25	/	22.11	/	23.00		
			50	0	/	22.01	/	23.00		
		64QAM	1	0	/	22.20	/	23.00		
			1	25	/	22.33	/	23.00		
			1	49	/	22.27	/	23.00		
			25	0	/	21.08	/	22.00		
			25	13	/	21.07	/	22.00		
			25	25	/	21.11	/	22.00		
			50	0	/	21.04	/	22.00		
			1	0	/	18.76	/	20.00		
			1	25	/	18.87	/	20.00		
			1	49	/	19.06	/	20.00		
			25	0	/	18.89	/	20.00		
			25	13	/	18.96	/	20.00		
		256QAM	25	25	/	18.93	/	20.00		
			50	0	/	18.75	/	20.00		
			LTE Band 13							
			Hotspot on--Ant1				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	22.57	22.60	22.58	23.50		
			1	13	22.68	22.67	22.64	23.50		
			1	24	22.61	22.60	22.54	23.50		
			12	0	22.54	22.58	22.54	23.50		
			12	6	22.67	22.59	22.63	23.50		
			12	13	22.64	22.62	22.60	23.50		
			25	0	22.63	22.56	22.61	23.50		
		16QAM	1	0	22.89	22.98	22.92	23.50		
			1	13	23.06	22.94	23.01	23.50		
			1	24	22.89	22.98	22.89	23.50		
			12	0	22.07	22.09	22.00	23.00		
			12	6	22.17	22.15	22.17	23.00		
	12		13	22.18	22.17	22.10	23.00			
	25		0	22.13	22.03	22.13	23.00			
	64QAM	1	0	22.31	22.36	22.26	23.00			
		1	13	22.32	22.37	22.27	23.00			
		1	24	22.46	22.31	22.17	23.00			
		12	0	21.09	21.09	21.04	22.00			
		12	6	21.18	21.08	21.17	22.00			

		12	13	21.10	21.14	21.09	22.00
		25	0	21.10	21.09	21.09	22.00
	256QAM	1	0	18.82	18.60	18.74	20.00
		1	13	18.83	18.89	18.89	20.00
		1	24	18.81	18.91	18.93	20.00
		12	0	18.52	18.64	18.68	20.00
		12	6	18.62	18.70	18.72	20.00
		12	13	18.69	18.69	18.85	20.00
		25	0	18.80	18.58	18.60	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	22.58	/	23.50
		1	25	/	22.68	/	23.50
		1	49	/	22.56	/	23.50
		25	0	/	22.62	/	23.50
		25	13	/	22.62	/	23.50
		25	25	/	22.64	/	23.50
		50	0	/	22.57	/	23.50
	16QAM	1	0	/	23.03	/	23.50
		1	25	/	22.93	/	23.50
		1	49	/	22.92	/	23.50
		25	0	/	22.09	/	23.00
		25	13	/	22.12	/	23.00
		25	25	/	22.17	/	23.00
		50	0	/	22.09	/	23.00
	64QAM	1	0	/	22.26	/	23.00
		1	25	/	22.42	/	23.00
		1	49	/	22.25	/	23.00
		25	0	/	21.10	/	22.00
		25	13	/	21.10	/	22.00
		25	25	/	21.14	/	22.00
		50	0	/	21.12	/	22.00
	256QAM	1	0	/	18.84	/	20.00
		1	25	/	18.77	/	20.00
		1	49	/	18.57	/	20.00
		25	0	/	18.48	/	20.00
		25	13	/	18.84	/	20.00
		25	25	/	18.57	/	20.00
		50	0	/	18.80	/	20.00

LTE Band 17							
Receiver on& Receiver off--Ant1				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	24.13	24.16	24.25	25.00
		1	13	24.24	24.35	24.36	25.00
		1	24	24.25	24.26	24.30	25.00
		12	0	23.13	23.19	23.20	24.00
		12	6	23.26	23.27	23.28	24.00
		12	13	23.22	23.28	23.27	24.00
		25	0	23.22	23.23	23.27	24.00
	16QAM	1	0	23.60	23.54	23.58	24.00
		1	13	23.54	23.74	23.68	24.00
		1	24	23.57	23.47	23.62	24.00
		12	0	22.16	22.24	22.23	23.00
		12	6	22.25	22.24	22.34	23.00
		12	13	22.26	22.34	22.35	23.00
		25	0	22.27	22.23	22.30	23.00
	64QAM	1	0	22.32	22.16	22.45	23.00
		1	13	22.35	22.47	22.57	23.00
		1	24	22.44	22.44	22.33	23.00
		12	0	21.11	21.26	21.23	22.00
		12	6	21.28	21.23	21.37	22.00
		12	13	21.25	21.30	21.31	22.00
		25	0	21.22	21.23	21.33	22.00
	256QAM	1	0	19.23	18.97	18.99	20.00
		1	13	19.28	19.06	19.26	20.00
		1	24	19.17	18.93	18.91	20.00
		12	0	18.98	19.10	19.24	20.00
		12	6	19.11	19.33	19.25	20.00
		12	13	19.24	19.32	19.40	20.00
		25	0	19.29	18.95	19.21	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	24.16	24.14	24.18	25.00
		1	25	24.28	24.32	24.30	25.00
		1	49	24.25	24.32	24.30	25.00
		25	0	23.21	23.24	23.24	24.00
		25	13	23.33	23.27	23.28	24.00
		25	25	23.31	23.33	23.34	24.00
		50	0	23.24	23.22	23.24	24.00
	16QAM	1	0	23.50	23.49	23.55	24.00

		1	25	23.52	23.69	23.79	24.00
		1	49	23.59	23.66	23.66	24.00
		25	0	22.25	22.18	22.27	23.00
		25	13	22.36	22.28	22.24	23.00
		25	25	22.31	22.33	22.33	23.00
		50	0	22.24	22.25	22.27	23.00
	64QAM	1	0	22.39	22.27	22.46	23.00
		1	25	22.39	22.51	22.51	23.00
		1	49	22.57	22.47	22.56	23.00
		25	0	21.17	21.20	21.24	22.00
		25	13	21.33	21.27	21.29	22.00
		25	25	21.31	21.33	21.35	22.00
	256QAM	50	0	21.22	21.25	21.20	22.00
		1	0	19.09	19.27	19.07	20.00
		1	25	19.36	19.30	19.12	20.00
		1	49	19.21	19.07	18.93	20.00
		25	0	19.30	19.22	19.20	20.00
		25	13	19.21	19.31	19.11	20.00
	25	25	19.14	19.22	19.08	20.00	
	50	0	19.11	19.09	19.09	20.00	
	LTE Band 17						
	Hotspot on--Ant1				Maximum Output Power (dBm)		
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	22.70	22.68	22.75	23.50
		1	13	22.78	22.90	22.89	23.50
		1	24	22.82	22.81	22.74	23.50
		12	0	22.68	22.75	22.74	23.50
		12	6	22.80	22.78	22.87	23.50
		12	13	22.78	22.85	22.83	23.50
		25	0	22.76	22.78	22.83	23.50
	16QAM	1	0	23.05	23.02	23.01	23.50
		1	13	23.18	23.19	23.13	23.50
		1	24	23.15	23.10	23.10	23.50
		12	0	22.20	22.24	22.24	23.00
		12	6	22.33	22.32	22.37	23.00
		12	13	22.29	22.38	22.36	23.00
		25	0	22.25	22.25	22.30	23.00
	64QAM	1	0	22.40	22.33	22.45	23.00
		1	13	22.29	22.46	22.48	23.00
		1	24	22.50	22.54	22.34	23.00
		12	0	21.17	21.24	21.22	22.00
		12	6	21.28	21.30	21.40	22.00

		12	13	21.28	21.39	21.30	22.00
		25	0	21.27	21.27	21.32	22.00
	256QAM	1	0	19.11	18.97	18.97	20.00
		1	13	19.08	18.94	19.14	20.00
		1	24	19.01	19.23	19.21	20.00
		12	0	18.94	18.86	19.22	20.00
		12	6	19.27	19.23	19.25	20.00
		12	13	19.26	19.26	19.18	20.00
		25	0	19.01	19.05	19.23	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	22.67	22.66	22.77	23.50
		1	25	22.83	22.86	22.93	23.50
		1	49	22.82	22.89	22.92	23.50
		25	0	22.75	22.77	22.76	23.50
		25	13	22.86	22.81	22.80	23.50
		25	25	22.91	22.87	22.88	23.50
		50	0	22.78	22.78	22.78	23.50
	16QAM	1	0	23.04	22.95	23.03	23.50
		1	25	22.96	23.17	23.12	23.50
		1	49	23.11	23.04	23.17	23.50
		25	0	22.27	22.25	22.24	23.00
		25	13	22.35	22.33	22.30	23.00
		25	25	22.29	22.38	22.36	23.00
		50	0	22.24	22.27	22.26	23.00
	64QAM	1	0	22.29	22.38	22.42	23.00
		1	25	22.59	22.53	22.54	23.00
		1	49	22.41	22.61	22.68	23.00
		25	0	21.21	21.25	21.23	22.00
		25	13	21.35	21.30	21.30	22.00
		25	25	21.35	21.33	21.36	22.00
		50	0	21.25	21.24	21.30	22.00
	256QAM	1	0	19.23	19.25	19.17	20.00
		1	25	19.12	19.06	19.30	20.00
		1	49	19.13	19.29	19.09	20.00
		25	0	19.04	18.86	19.20	20.00
		25	13	19.25	19.05	19.31	20.00
		25	25	19.32	19.18	19.16	20.00
		50	0	18.91	19.01	19.01	20.00

LTE Band 26							
Receiver on& Receiver off--Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth h	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26797/824.7	26915/836.5	27033/848.3	
1.4MHz	QPSK	1	0	24.57	24.48	24.42	25.00
		1	2	24.15	24.59	24.49	25.00
		1	5	24.18	24.57	24.32	25.00
		3	0	24.24	24.47	24.40	25.00
		3	2	24.07	24.53	24.50	25.00
		3	3	24.33	24.50	24.36	25.00
		6	0	23.43	23.53	23.38	24.00
	16QAM	1	0	23.55	23.86	23.73	24.00
		1	2	23.46	23.70	23.71	24.00
		1	5	23.33	23.86	23.62	24.00
		3	0	23.35	23.62	23.46	24.00
		3	2	23.13	23.63	23.53	24.00
		3	3	23.19	23.57	23.47	24.00
		6	0	22.46	22.61	22.42	23.00
	64QAM	1	0	22.64	22.66	22.54	23.00
		1	2	22.58	22.78	22.45	23.00
		1	5	22.56	22.73	22.55	23.00
		3	0	22.17	22.57	22.52	23.00
		3	2	22.29	22.62	22.44	23.00
		3	3	22.32	22.63	22.45	23.00
		6	0	21.25	21.69	21.44	22.00
	256QAM	1	0	18.91	18.75	19.17	20.00
		1	2	18.88	18.92	19.24	20.00
		1	5	18.77	18.75	18.77	20.00
		3	0	18.82	18.84	18.96	20.00
		3	2	18.95	18.93	18.91	20.00
		3	3	18.56	18.76	18.68	20.00
		6	0	18.93	18.83	18.77	20.00
Bandwidth h	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26915/836.5	26915/836.5	27025/847.5	
3MHz	QPSK	1	0	24.41	24.61	24.42	25.00
		1	7	24.11	24.66	24.59	25.00
		1	14	24.16	24.51	24.29	25.00
		8	0	23.38	23.49	23.38	24.00
		8	4	23.23	23.58	23.44	24.00
		8	7	23.47	23.53	23.37	24.00
		15	0	23.27	23.46	23.41	24.00
	16QAM	1	0	23.75	23.83	23.62	24.00

		1	7	23.62	23.65	23.84	24.00	
		1	14	23.59	23.72	23.72	24.00	
		8	0	22.31	22.55	22.48	23.00	
		8	4	22.45	22.67	22.51	23.00	
		8	7	22.25	22.65	22.48	23.00	
		15	0	22.46	22.47	22.38	23.00	
	64QAM	1	0	22.66	22.80	22.38	23.00	
		1	7	22.46	22.75	22.62	23.00	
		1	14	22.40	22.70	22.49	23.00	
		8	0	21.21	21.51	21.41	22.00	
		8	4	21.41	21.64	21.48	22.00	
		8	7	21.36	21.52	21.43	22.00	
	256QAM	15	0	21.33	21.46	21.41	22.00	
		1	0	19.05	18.97	18.95	20.00	
		1	7	19.10	19.12	19.06	20.00	
		1	14	19.03	18.97	18.99	20.00	
		8	0	19.04	18.92	19.06	20.00	
		8	4	18.85	19.01	19.03	20.00	
		8	7	18.86	18.80	18.82	20.00	
		15	0	18.87	18.97	18.79	20.00	
Bandwidth		Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
					26815/826.5	26915/836.5	27015/846.5	
5MHz	QPSK	1	0	24.47	24.55	24.40	25.00	
		1	13	24.03	24.59	24.49	25.00	
		1	24	24.12	24.54	24.39	25.00	
		12	0	23.16	23.50	23.42	24.00	
		12	6	23.35	23.59	23.46	24.00	
		12	13	23.17	23.56	23.44	24.00	
		25	0	23.31	23.47	23.44	24.00	
	16QAM	1	0	23.49	23.75	23.68	24.00	
		1	13	23.44	23.88	23.79	24.00	
		1	24	23.43	23.71	23.73	24.00	
		12	0	22.37	22.49	22.46	23.00	
		12	6	22.35	22.60	22.47	23.00	
		12	13	22.39	22.58	22.48	23.00	
		25	0	22.16	22.47	22.41	23.00	
	64QAM	1	0	22.54	22.74	22.62	23.00	
		1	13	22.54	22.71	22.61	23.00	
		1	24	22.38	22.69	22.54	23.00	
		12	0	21.27	21.57	21.44	22.00	
		12	6	21.33	21.63	21.47	22.00	
		12	13	21.28	21.56	21.48	22.00	
		25	0	21.09	21.53	21.45	22.00	

	256QAM	1	0	18.79	18.81	18.85	20.00
		1	13	18.98	19.04	18.78	20.00
		1	24	18.91	18.99	18.89	20.00
		12	0	18.80	18.80	18.90	20.00
		12	6	18.79	18.99	18.87	20.00
		12	13	18.80	18.68	18.82	20.00
		25	0	18.71	18.87	18.99	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26840/829	26915/836.5	26990/844	
10MHz	QPSK	1	0	24.61	24.66	24.54	25.00
		1	25	24.37	24.69	24.53	25.00
		1	49	24.24	24.50	24.41	25.00
		25	0	23.50	23.49	23.36	24.00
		25	13	23.27	23.52	23.40	24.00
		25	25	23.55	23.57	23.49	24.00
		50	0	23.39	23.49	23.40	24.00
	16QAM	1	0	23.73	23.79	23.78	24.00
		1	25	23.42	23.86	23.76	24.00
		1	49	23.45	23.75	23.66	24.00
		25	0	22.41	22.51	22.38	23.00
		25	13	22.39	22.59	22.43	23.00
		25	25	22.51	22.59	22.47	23.00
		50	0	22.40	22.50	22.41	23.00
	64QAM	1	0	22.62	22.64	22.61	23.00
		1	25	22.48	22.78	22.75	23.00
		1	49	22.40	22.53	22.47	23.00
		25	0	21.31	21.55	21.37	22.00
		25	13	21.45	21.46	21.42	22.00
		25	25	21.40	21.59	21.47	22.00
		50	0	21.43	21.51	21.41	22.00
	256QAM	1	0	18.89	19.09	19.13	20.00
		1	25	18.98	18.78	19.12	20.00
		1	49	18.83	18.99	18.91	20.00
		25	0	19.02	18.82	19.14	20.00
		25	13	18.77	18.81	18.73	20.00
		25	25	18.88	18.88	18.72	20.00
		50	0	18.77	18.71	18.73	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26865/831.5	26915/836.5	26965/841.5	
15MHz	QPSK	1	0	24.33	24.34	24.41	25.00
		1	38	24.23	24.46	24.21	25.00
		1	74	24.38	24.29	24.24	25.00
		36	0	23.38	23.39	23.32	24.00

		36	18	23.45	23.35	23.33	24.00
		36	39	23.39	23.46	23.35	24.00
		75	0	23.25	23.38	23.25	24.00
	16QAM	1	0	23.67	23.77	23.61	24.00
		1	38	23.56	23.64	23.60	24.00
		1	74	23.45	23.57	23.43	24.00
		36	0	22.39	22.37	22.31	23.00
		36	18	22.39	22.36	22.37	23.00
		36	39	22.45	22.48	22.35	23.00
		75	0	22.22	22.40	22.30	23.00
	64QAM	1	0	22.68	22.36	22.56	23.00
		1	38	22.44	22.67	22.50	23.00
		1	74	22.50	22.56	22.40	23.00
		36	0	21.43	21.40	21.31	22.00
		36	18	21.29	21.34	21.33	22.00
		36	39	21.26	21.42	21.34	22.00
		75	0	21.25	21.35	21.29	22.00
	256QAM	1	0	19.05	18.83	18.87	20.00
		1	38	19.04	19.00	18.94	20.00
		1	74	18.93	19.09	18.99	20.00
		36	0	18.92	19.10	18.88	20.00
		36	18	18.93	18.77	19.01	20.00
		36	39	18.92	18.92	18.86	20.00
		75	0	18.79	18.85	19.07	20.00
LTE Band 26							
Hotspot on--Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26697/814.7	26740/819	26783/823.3	
1.4MHz	QPSK	1	0	22.64	22.76	22.58	23.50
		1	2	22.89	22.93	22.87	23.50
		1	5	22.68	22.72	22.96	23.50
		3	0	22.66	22.90	22.52	23.50
		3	2	23.05	23.07	22.91	23.50
		3	3	22.60	22.84	23.04	23.50
		6	0	22.85	22.87	22.85	23.50
	16QAM	1	0	23.17	23.05	23.09	23.50
		1	2	23.36	22.96	23.16	23.50
		1	5	23.10	23.16	23.02	23.50
		3	0	22.91	23.17	23.19	23.50
		3	2	22.93	23.11	23.11	23.50
		3	3	23.17	23.15	23.29	23.50
		6	0	22.36	22.18	22.18	23.00
	64QAM	1	0	22.29	22.31	22.17	23.00

		1	2	22.12	22.48	22.28	23.00
		1	5	22.11	22.47	22.37	23.00
		3	0	21.97	21.93	21.87	23.00
		3	2	21.83	21.95	22.15	23.00
		3	3	22.04	22.24	22.28	23.00
		6	0	21.40	21.28	21.08	22.00
	256QAM	1	0	18.61	18.71	18.81	20.00
		1	2	19.26	19.12	19.02	20.00
		1	5	19.13	19.19	19.23	20.00
		3	0	18.92	18.98	18.94	20.00
		3	2	18.77	18.51	18.53	20.00
		3	3	18.72	18.74	18.78	20.00
		6	0	19.15	19.21	19.09	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26740/819	26775/822.5	
3MHz	QPSK	1	0	22.54	22.88	22.54	23.50
		1	7	22.73	22.63	22.85	23.50
		1	14	22.66	22.76	22.78	23.50
		8	0	22.65	22.83	22.67	23.50
		8	4	22.88	22.76	22.74	23.50
		8	7	22.96	22.88	22.78	23.50
		15	0	23.01	22.87	22.97	23.50
	16QAM	1	0	23.11	23.11	23.15	23.50
		1	7	22.94	23.06	23.00	23.50
		1	14	22.94	23.10	22.78	23.50
		8	0	22.03	22.31	21.95	23.00
		8	4	22.09	22.03	22.17	23.00
		8	7	22.07	22.11	22.43	23.00
		15	0	22.36	22.14	22.36	23.00
	64QAM	1	0	22.29	22.55	22.25	23.00
		1	7	22.12	22.30	22.14	23.00
		1	14	22.23	22.23	22.17	23.00
		8	0	20.91	21.19	21.31	22.00
		8	4	21.29	21.23	20.95	22.00
		8	7	21.30	21.18	21.02	22.00
		15	0	21.42	21.30	21.12	22.00
	256QAM	1	0	18.59	18.67	18.77	20.00
		1	7	19.12	18.96	19.08	20.00
		1	14	19.09	19.03	19.11	20.00
		8	0	18.88	18.96	18.78	20.00
		8	4	18.41	18.45	18.51	20.00
		8	7	18.76	18.60	18.80	20.00
		15	0	18.91	19.07	19.07	20.00

Bandwidth h	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune- up
				26715/816.5	26740/819	26765/821.5	
5MHz	QPSK	1	0	22.70	22.70	22.86	23.50
		1	13	22.83	22.91	22.95	23.50
		1	24	22.74	22.84	22.94	23.50
		12	0	22.57	22.79	22.83	23.50
		12	6	22.88	22.94	22.76	23.50
		12	13	22.72	22.74	22.74	23.50
		25	0	22.73	22.73	22.69	23.50
	16QAM	1	0	23.09	22.83	22.81	23.50
		1	13	23.06	23.02	23.08	23.50
		1	24	22.98	22.84	23.12	23.50
		12	0	22.13	22.03	21.99	23.00
		12	6	22.15	22.15	22.23	23.00
		12	13	22.21	22.29	22.21	23.00
		25	0	22.12	22.16	22.14	23.00
	64QAM	1	0	22.43	22.49	22.39	23.00
		1	13	22.30	22.20	22.24	23.00
		1	24	22.29	22.41	22.21	23.00
		12	0	21.09	21.25	21.25	22.00
		12	6	21.01	21.15	21.15	22.00
		12	13	21.16	21.24	21.08	22.00
		25	0	21.24	21.32	21.10	22.00
	256QAM	1	0	18.61	18.81	18.83	20.00
		1	13	19.00	19.24	19.18	20.00
		1	24	19.09	19.13	19.13	20.00
		12	0	19.02	18.96	18.88	20.00
		12	6	18.49	18.67	18.63	20.00
		12	13	18.70	18.74	18.68	20.00
		25	0	19.07	19.01	19.05	20.00
Bandwidth h	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune- up
				/	26740/819	/	
10MHz	QPSK	1	0	/	22.68	/	23.50
		1	25	/	22.77	/	23.50
		1	49	/	22.78	/	23.50
		25	0	/	22.69	/	23.50
		25	13	/	22.76	/	23.50
		25	25	/	22.82	/	23.50
		50	0	/	22.79	/	23.50
	16QAM	1	0	/	22.93	/	23.50
		1	25	/	23.12	/	23.50
		1	49	/	22.94	/	23.50
		25	0	/	22.11	/	23.00

		25	13	/	22.15	/	23.00
		25	25	/	22.21	/	23.00
		50	0	/	22.22	/	23.00
	64QAM	1	0	/	22.33	/	23.00
		1	25	/	22.26	/	23.00
		1	49	/	22.25	/	23.00
		25	0	/	21.09	/	22.00
		25	13	/	21.09	/	22.00
		25	25	/	21.20	/	22.00
		50	0	/	21.22	/	22.00
		256QAM	1	0	/	18.91	/
	1		25	/	19.08	/	20.00
	1		49	/	19.17	/	20.00
	25		0	/	18.80	/	20.00
	25		13	/	18.59	/	20.00
25	25		/	18.78	/	20.00	
50	0		/	19.13	/	20.00	
LTE Band 26							
Hotspot on--Ant1				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26797/824.7	26915/836.5	27033/848.3	
1.4MHz	QPSK	1	0	22.76	22.87	22.92	23.50
		1	2	23.10	22.59	22.70	23.50
		1	5	23.00	22.51	22.85	23.50
		3	0	22.90	22.91	23.08	23.50
		3	2	23.32	22.41	22.56	23.50
		3	3	23.02	22.57	22.81	23.50
		6	0	23.03	22.62	22.83	23.50
	16QAM	1	0	23.19	22.80	22.99	23.50
		1	2	23.21	22.90	22.90	23.50
		1	5	23.19	22.74	22.84	23.50
		3	0	23.17	22.98	23.05	23.50
		3	2	23.30	23.10	22.83	23.50
		3	3	23.34	22.83	23.09	23.50
		6	0	22.27	22.01	22.17	23.00
	64QAM	1	0	22.34	22.28	22.16	23.00
		1	2	22.37	22.08	22.17	23.00
		1	5	22.39	22.19	22.27	23.00
		3	0	22.01	21.89	22.10	23.00
		3	2	22.42	22.07	21.98	23.00
		3	3	22.34	22.00	22.14	23.00
		6	0	21.14	21.07	21.01	22.00
	256QAM	1	0	19.35	18.77	18.77	20.00

		1	2	19.24	18.94	19.22	20.00
		1	5	19.05	19.15	18.57	20.00
		3	0	18.64	18.82	19.26	20.00
		3	2	18.73	18.85	18.89	20.00
		3	3	18.82	18.94	18.72	20.00
		6	0	18.59	18.95	19.01	20.00
Bandwidth h	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune- up
				26915/836.5	26915/836.5	27025/847.5	
3MHz	QPSK	1	0	22.84	22.43	22.58	23.50
		1	7	22.86	22.51	22.46	23.50
		1	14	22.92	22.47	22.43	23.50
		8	0	22.77	22.82	22.73	23.50
		8	4	22.86	22.76	22.79	23.50
		8	7	22.89	22.60	22.73	23.50
		15	0	22.71	22.62	22.75	23.50
	16QAM	1	0	23.19	22.76	23.03	23.50
		1	7	23.33	22.94	22.94	23.50
		1	14	22.97	22.88	22.76	23.50
		8	0	22.43	22.04	21.97	23.00
		8	4	22.22	22.14	21.93	23.00
		8	7	22.28	22.19	22.03	23.00
		15	0	22.25	22.09	22.07	23.00
	64QAM	1	0	22.50	22.04	22.04	23.00
		1	7	22.51	22.10	21.99	23.00
		1	14	22.45	22.17	22.01	23.00
		8	0	21.17	21.09	21.10	22.00
		8	4	21.20	20.95	20.92	22.00
		8	7	21.18	21.00	21.02	22.00
		15	0	21.22	20.97	20.97	22.00
	256QAM	1	0	19.25	18.85	18.87	20.00
		1	7	19.12	19.02	19.00	20.00
		1	14	18.87	19.11	18.97	20.00
		8	0	18.54	18.72	19.16	20.00
		8	4	18.59	18.63	18.95	20.00
		8	7	18.88	19.02	19.02	20.00
		15	0	18.79	19.01	19.03	20.00
Bandwidth h	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune- up
				26815/826.5	26915/836.5	27015/846.5	
5MHz	QPSK	1	0	22.70	22.63	22.60	23.50
		1	13	23.10	22.91	22.48	23.50
		1	24	22.82	22.49	22.61	23.50
		12	0	22.77	22.80	22.47	23.50
		12	6	23.02	22.76	22.89	23.50

		12	13	22.99	22.98	22.81	23.50
		25	0	22.71	22.52	22.83	23.50
	16QAM	1	0	23.13	23.00	22.97	23.50
		1	13	23.33	22.72	23.12	23.50
		1	24	23.13	22.68	22.86	23.50
		12	0	22.17	22.32	22.05	23.00
		12	6	22.32	21.92	22.01	23.00
		12	13	22.34	22.01	22.15	23.00
		25	0	22.47	22.15	21.89	23.00
		1	0	22.48	22.06	22.42	23.00
	64QAM	1	13	22.39	22.34	22.19	23.00
		1	24	22.45	22.11	22.29	23.00
		12	0	21.31	21.15	20.98	22.00
		12	6	21.30	20.93	21.04	22.00
		12	13	21.28	21.06	21.10	22.00
		25	0	21.38	21.01	21.13	22.00
	256QAM	1	0	19.21	18.81	18.93	20.00
		1	13	19.06	18.86	18.84	20.00
		1	24	18.79	19.27	18.69	20.00
		12	0	18.46	18.78	19.16	20.00
		12	6	18.49	18.67	19.15	20.00
		12	13	18.78	18.78	18.74	20.00
		25	0	18.59	18.83	18.97	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26840/829	26915/836.5	26990/844	
10MHz	QPSK	1	0	22.86	22.75	22.90	23.50
		1	25	23.02	22.79	22.68	23.50
		1	49	22.86	22.51	22.75	23.50
		25	0	22.83	22.68	22.59	23.50
		25	13	22.96	22.76	22.89	23.50
		25	25	22.81	22.96	22.81	23.50
		50	0	22.81	22.82	22.65	23.50
	16QAM	1	0	23.27	22.82	23.01	23.50
		1	25	23.29	22.82	22.86	23.50
		1	49	23.13	22.86	22.96	23.50
		25	0	22.35	22.06	22.25	23.00
		25	13	22.20	21.98	22.13	23.00
		25	25	22.48	22.27	22.03	23.00
		50	0	22.45	22.01	22.17	23.00
	64QAM	1	0	22.52	22.14	22.12	23.00
		1	25	22.57	22.16	22.27	23.00
		1	49	22.61	22.37	22.11	23.00
		25	0	21.39	21.05	21.16	22.00

		25	13	21.38	20.99	21.02	22.00
		25	25	21.24	21.02	21.28	22.00
		50	0	21.48	21.03	21.11	22.00
	256QAM	1	0	19.03	18.71	18.81	20.00
		1	25	19.02	19.10	18.98	20.00
		1	49	19.17	19.19	18.89	20.00
		25	0	18.66	18.86	19.06	20.00
		25	13	18.57	18.61	18.91	20.00
		25	25	18.92	18.74	18.76	20.00
		50	0	18.69	19.09	19.03	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26865/831.5	26915/836.5	26965/841.5	
15MHz	QPSK	1	0	22.88	22.63	22.72	23.50
		1	38	22.88	22.71	22.64	23.50
		1	74	22.82	22.57	22.63	23.50
		36	0	22.87	22.72	22.63	23.50
		36	18	22.90	22.66	22.71	23.50
		36	39	22.87	22.78	22.67	23.50
		75	0	22.87	22.70	22.65	23.50
	16QAM	1	0	23.23	22.88	23.05	23.50
		1	38	23.25	22.88	22.92	23.50
		1	74	23.17	22.80	22.88	23.50
		36	0	22.33	22.10	22.09	23.00
		36	18	22.32	22.10	22.03	23.00
		36	39	22.36	22.13	22.11	23.00
		75	0	22.33	22.09	22.05	23.00
	64QAM	1	0	22.40	22.06	22.22	23.00
		1	38	22.43	22.24	22.17	23.00
		1	74	22.47	22.23	22.19	23.00
		36	0	21.31	21.09	21.04	22.00
		36	18	21.34	21.09	21.08	22.00
		36	39	21.34	21.12	21.10	22.00
		75	0	21.30	21.13	20.99	22.00
	256QAM	1	0	19.27	18.69	18.89	20.00
		1	38	19.24	18.96	18.92	20.00
		1	74	19.01	19.25	19.03	20.00
		36	0	18.54	18.88	19.32	20.00
		36	18	18.53	18.83	18.97	20.00
		36	39	19.00	18.82	18.88	20.00
		75	0	18.81	18.87	18.99	20.00

LTE Band 66							
Receiver on& Receiver off--Ant0				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	22.70	22.52	22.56	23.50
		1	2	22.50	22.60	22.51	23.50
		1	5	22.32	22.67	22.51	23.50
		3	0	22.84	22.70	22.74	23.50
		3	2	22.50	22.76	22.45	23.50
		3	3	22.26	22.73	22.59	23.50
		6	0	22.61	22.43	22.61	23.50
	16QAM	1	0	22.99	22.48	22.78	23.50
		1	2	22.86	22.65	23.00	23.50
		1	5	22.33	23.05	22.79	23.50
		3	0	22.56	22.47	22.26	23.50
		3	2	22.22	22.36	22.64	23.50
		3	3	22.15	22.66	22.56	23.50
		6	0	21.74	21.74	21.42	22.50
	64QAM	1	0	21.93	21.50	21.65	22.50
		1	2	21.41	21.83	21.88	22.50
		1	5	21.41	21.75	21.69	22.50
		3	0	21.35	21.17	21.51	22.50
		3	2	21.25	21.69	21.49	22.50
		3	3	21.18	21.52	21.40	22.50
		6	0	20.71	20.43	20.57	21.50
	256QAM	1	0	18.20	17.78	18.10	19.50
		1	2	18.54	18.78	18.56	19.50
		1	5	18.22	18.20	17.98	19.50
		3	0	18.56	18.42	18.26	19.50
		3	2	18.57	18.39	18.19	19.50
		3	3	18.47	18.51	18.61	19.50
		6	0	18.24	18.46	18.16	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	22.84	22.46	22.56	23.50
		1	7	22.38	22.60	22.77	23.50
		1	14	22.42	22.77	22.43	23.50
		8	0	22.61	22.38	22.70	23.50
		8	4	22.49	22.73	22.74	23.50
		8	7	22.49	22.54	22.52	23.50
		15	0	22.65	22.53	22.39	23.50
	16QAM	1	0	22.97	22.68	22.96	23.50

		1	7	22.62	22.79	22.92	23.50
		1	14	22.47	22.79	22.47	23.50
		8	0	21.54	21.59	21.48	22.50
		8	4	21.46	21.68	21.52	22.50
		8	7	21.49	21.60	21.62	22.50
		15	0	21.58	21.58	21.44	22.50
		1	0	21.75	21.74	21.67	22.50
	64QAM	1	7	21.37	21.81	21.82	22.50
		1	14	21.57	21.97	21.57	22.50
		8	0	20.59	20.59	20.63	21.50
		8	4	20.65	20.69	20.71	21.50
		8	7	20.46	20.74	20.44	21.50
		15	0	20.49	20.51	20.47	21.50
		1	0	18.32	17.86	18.16	19.50
	256QAM	1	7	18.48	18.76	18.68	19.50
		1	14	18.30	18.22	17.94	19.50
		8	0	18.54	18.28	18.36	19.50
		8	4	18.57	18.29	18.29	19.50
		8	7	18.33	18.49	18.53	19.50
		15	0	18.34	18.50	18.18	19.50
		1	0	18.32	17.86	18.16	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	22.64	22.30	22.66	23.50
		1	13	22.28	22.50	22.45	23.50
		1	24	22.46	22.79	22.17	23.50
		12	0	22.69	22.28	22.54	23.50
		12	6	22.35	22.43	22.58	23.50
		12	13	22.43	22.60	22.64	23.50
		25	0	22.35	22.63	22.39	23.50
	16QAM	1	0	22.81	22.44	22.86	23.50
		1	13	22.68	22.71	22.80	23.50
		1	24	22.29	22.83	22.61	23.50
		12	0	21.56	21.39	21.52	22.50
		12	6	21.40	21.54	21.50	22.50
		12	13	21.49	21.58	21.36	22.50
		25	0	21.32	21.48	21.48	22.50
	64QAM	1	0	21.81	21.76	21.63	22.50
		1	13	21.43	21.75	21.74	22.50
		1	24	21.41	21.97	21.45	22.50
		12	0	20.63	20.27	20.61	21.50
		12	6	20.37	20.57	20.53	21.50
		12	13	20.48	20.50	20.44	21.50
		25	0	20.53	20.37	20.35	21.50

	256QAM	1	0	18.24	18.22	18.16	19.50
		1	13	18.46	18.46	18.52	19.50
		1	24	18.26	18.16	18.22	19.50
		12	0	18.30	18.42	18.38	19.50
		12	6	18.33	18.43	18.47	19.50
		12	13	18.47	18.51	18.55	19.50
		25	0	18.28	18.20	18.24	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	22.76	22.34	22.46	23.50
		1	25	22.64	22.70	22.83	23.50
		1	49	22.64	22.73	22.43	23.50
		25	0	22.53	22.58	22.66	23.50
		25	13	22.67	22.71	22.52	23.50
		25	25	22.43	22.46	22.48	23.50
		50	0	22.55	22.41	22.71	23.50
	16QAM	1	0	22.91	22.48	22.92	23.50
		1	25	22.80	22.61	22.62	23.50
		1	49	22.45	22.75	22.61	23.50
		25	0	21.44	21.49	21.56	22.50
		25	13	21.46	21.70	21.70	22.50
		25	25	21.47	21.42	21.60	22.50
		50	0	21.52	21.52	21.48	22.50
	64QAM	1	0	21.77	21.54	21.75	22.50
		1	25	21.63	21.65	21.66	22.50
		1	49	21.51	22.01	21.57	22.50
		25	0	20.61	20.33	20.49	21.50
		25	13	20.35	20.75	20.79	21.50
		25	25	20.36	20.48	20.76	21.50
		50	0	20.53	20.45	20.47	21.50
	256QAM	1	0	18.00	18.12	17.98	19.50
		1	25	18.54	18.48	18.32	19.50
		1	49	18.22	18.02	18.26	19.50
		25	0	18.20	18.14	18.22	19.50
		25	13	18.35	18.35	18.31	19.50
		25	25	18.47	18.19	18.33	19.50
		50	0	18.32	18.36	18.28	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	22.82	22.58	22.56	23.50
		1	38	22.52	22.58	22.61	23.50
		1	74	22.54	22.73	22.45	23.50
		36	0	22.57	22.46	22.66	23.50

		36	18	22.57	22.47	22.56	23.50
		36	39	22.45	22.54	22.56	23.50
		75	0	22.57	22.45	22.67	23.50
	16QAM	1	0	23.01	22.62	22.94	23.50
		1	38	22.70	22.83	22.76	23.50
		1	74	22.33	22.75	22.49	23.50
		36	0	21.64	21.51	21.56	22.50
		36	18	21.40	21.76	21.78	22.50
		36	39	21.49	21.48	21.52	22.50
		75	0	21.54	21.76	21.68	22.50
	64QAM	1	0	21.67	21.54	21.77	22.50
		1	38	21.51	21.67	21.68	22.50
		1	74	21.49	21.77	21.59	22.50
		36	0	20.57	20.63	20.65	21.50
		36	18	20.59	20.63	20.53	21.50
		36	39	20.46	20.64	20.54	21.50
		75	0	20.57	20.55	20.71	21.50
	256QAM	1	0	18.14	18.30	18.34	19.50
		1	38	18.64	18.52	18.36	19.50
		1	74	18.04	18.24	18.20	19.50
		36	0	18.50	18.48	18.52	19.50
		36	18	18.23	18.61	18.59	19.50
		36	39	18.35	18.47	18.21	19.50
		75	0	18.24	18.32	18.14	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	22.68	22.46	22.60	23.50
		1	50	22.44	22.64	22.61	23.50
		1	99	22.42	22.69	22.33	23.50
		50	0	22.61	22.40	22.56	23.50
		50	25	22.49	22.59	22.58	23.50
		50	50	22.43	22.56	22.54	23.50
		100	0	22.53	22.55	22.49	23.50
	16QAM	1	0	22.83	22.62	22.90	23.50
		1	50	22.64	22.79	22.78	23.50
		1	99	22.43	22.87	22.55	23.50
		50	0	21.58	21.47	21.56	22.50
		50	25	21.52	21.60	21.62	22.50
		50	50	21.41	21.58	21.52	22.50
		100	0	21.52	21.58	21.52	22.50
	64QAM	1	0	21.75	21.66	21.77	22.50
		1	50	21.45	21.79	21.70	22.50
		1	99	21.45	21.87	21.49	22.50

		50	0	20.59	20.45	20.57	21.50
		50	25	20.51	20.63	20.61	21.50
		50	50	20.44	20.62	20.54	21.50
		100	0	20.53	20.57	20.53	21.50
	256QAM	1	0	18.06	18.22	18.04	19.50
		1	50	18.64	18.46	18.64	19.50
		1	99	18.24	18.26	18.20	19.50
		50	0	18.40	18.40	18.28	19.50
		50	25	18.53	18.47	18.45	19.50
		50	50	18.29	18.57	18.31	19.50
		100	0	18.42	18.32	18.30	19.50
LTE Band 66							
Hotspot on--Ant0				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	21.24	21.25	21.24	22.00
		1	2	21.01	21.31	21.53	22.00
		1	5	20.99	21.21	20.87	22.00
		3	0	21.00	21.12	21.12	22.00
		3	2	20.95	21.19	21.29	22.00
		3	3	21.12	21.18	21.12	22.00
		6	0	20.91	21.38	21.05	22.00
	16QAM	1	0	21.25	21.42	21.74	22.00
		1	2	21.06	21.30	21.34	22.00
		1	5	21.34	21.63	21.16	22.00
		3	0	21.20	20.94	21.11	22.00
		3	2	20.99	21.22	21.23	22.00
		3	3	20.85	20.97	21.35	22.00
		6	0	21.11	21.16	21.39	22.00
	64QAM	1	0	21.55	21.20	21.02	22.00
		1	2	20.94	20.90	21.37	22.00
		1	5	21.11	21.68	21.16	22.00
		3	0	20.57	20.81	20.74	22.00
		3	2	20.26	20.87	20.89	22.00
		3	3	20.44	20.83	20.63	22.00
		6	0	20.56	20.79	20.61	22.00
	256QAM	1	0	18.32	18.30	18.40	19.50
		1	2	18.50	18.38	18.60	19.50
		1	5	18.31	18.15	18.31	19.50
		3	0	18.78	18.26	18.56	19.50
		3	2	18.48	18.54	18.44	19.50
		3	3	18.46	18.54	18.18	19.50
		6	0	18.29	18.15	18.43	19.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.38	21.11	21.40	22.00
		1	7	21.05	21.23	21.37	22.00
		1	14	21.11	21.37	21.07	22.00
		8	0	21.20	21.30	21.22	22.00
		8	4	21.13	21.29	21.15	22.00
		8	7	20.84	21.26	21.20	22.00
		15	0	20.97	21.18	21.21	22.00
	16QAM	1	0	21.53	21.32	21.52	22.00
		1	7	21.38	21.50	21.50	22.00
		1	14	21.24	21.71	21.30	22.00
		8	0	21.10	21.20	21.17	22.00
		8	4	21.05	21.20	21.29	22.00
		8	7	20.99	21.19	21.13	22.00
		15	0	21.09	21.22	21.17	22.00
	64QAM	1	0	21.43	21.40	21.40	22.00
		1	7	21.14	21.22	21.57	22.00
		1	14	21.05	21.48	21.18	22.00
		8	0	20.75	20.87	20.70	21.50
		8	4	20.48	20.99	20.81	21.50
		8	7	20.64	20.81	20.87	21.50
		15	0	20.76	20.81	20.87	21.50
	256QAM	1	0	18.42	18.26	18.52	19.50
		1	7	18.46	18.32	18.54	19.50
		1	14	18.21	18.11	18.29	19.50
		8	0	18.72	18.26	18.40	19.50
		8	4	18.48	18.56	18.34	19.50
		8	7	18.34	18.40	18.14	19.50
		15	0	18.41	18.23	18.45	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.18	21.21	21.22	22.00
		1	13	20.83	21.21	21.11	22.00
		1	24	21.07	21.19	20.93	22.00
		12	0	21.22	21.00	21.12	22.00
		12	6	21.07	21.37	21.15	22.00
		12	13	20.84	21.24	21.02	22.00
		25	0	20.97	21.30	21.03	22.00
	16QAM	1	0	21.57	21.42	21.26	22.00
		1	13	21.28	21.26	21.58	22.00
		1	24	20.92	21.59	21.08	22.00
		12	0	21.12	21.10	21.23	22.00

		12	6	20.89	21.22	21.09	22.00
		12	13	20.87	21.09	21.01	22.00
		25	0	21.03	21.28	21.03	22.00
	64QAM	1	0	21.51	21.38	21.38	22.00
		1	13	21.04	21.24	21.57	22.00
		1	24	20.87	21.40	20.98	22.00
		12	0	20.79	20.75	20.72	21.50
		12	6	20.58	20.81	20.79	21.50
		12	13	20.42	20.83	20.77	21.50
		25	0	20.46	20.85	20.81	21.50
	256QAM	1	0	18.50	18.38	18.62	19.50
		1	13	18.46	18.38	18.48	19.50
		1	24	18.39	18.27	18.41	19.50
		12	0	18.52	18.32	18.50	19.50
		12	6	18.54	18.38	18.34	19.50
		12	13	18.34	18.40	18.32	19.50
		25	0	18.29	18.53	18.37	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.38	21.41	21.40	22.00
		1	25	21.15	21.19	21.23	22.00
		1	49	20.99	21.37	21.07	22.00
		25	0	21.38	21.38	21.24	22.00
		25	13	20.91	21.45	21.21	22.00
		25	25	20.74	21.40	21.40	22.00
		50	0	20.99	21.20	20.99	22.00
	16QAM	1	0	21.49	21.38	21.48	22.00
		1	25	21.10	21.54	21.64	22.00
		1	49	20.98	21.75	21.30	22.00
		25	0	21.30	21.34	21.07	22.00
		25	13	20.85	21.32	21.45	22.00
		25	25	21.05	21.27	21.13	22.00
		50	0	20.85	21.36	21.11	22.00
	64QAM	1	0	21.55	21.20	21.50	22.00
		1	25	21.20	21.32	21.67	22.00
		1	49	20.85	21.66	21.00	22.00
		25	0	20.75	21.05	20.86	21.50
		25	13	20.52	20.89	20.79	21.50
		25	25	20.70	20.99	20.81	21.50
		50	0	20.54	20.69	20.83	21.50
	256QAM	1	0	18.46	18.30	18.36	19.50
		1	25	18.48	18.30	18.30	19.50
		1	49	18.23	18.39	18.39	19.50

		25	0	18.40	18.32	18.52	19.50
		25	13	18.42	18.26	18.44	19.50
		25	25	18.18	18.26	18.40	19.50
		50	0	18.45	18.31	18.49	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	21.38	21.37	21.38	22.00
		1	38	21.13	21.31	21.27	22.00
		1	74	21.15	21.19	20.99	22.00
		36	0	21.26	21.30	21.30	22.00
		36	18	21.01	21.25	21.15	22.00
		36	39	20.96	21.28	21.10	22.00
		75	0	20.97	21.22	21.21	22.00
	16QAM	1	0	21.75	21.54	21.38	22.00
		1	38	21.28	21.64	21.70	22.00
		1	74	21.16	21.53	21.06	22.00
		36	0	21.08	21.14	21.15	22.00
		36	18	20.99	21.12	21.25	22.00
		36	39	21.07	21.21	21.33	22.00
		75	0	20.99	21.34	21.07	22.00
	64QAM	1	0	21.57	21.40	21.36	22.00
		1	38	21.14	21.18	21.73	22.00
		1	74	21.11	21.40	21.08	22.00
		36	0	20.71	20.73	20.86	21.50
		36	18	20.66	20.81	20.73	21.50
		36	39	20.46	20.95	20.95	21.50
		75	0	20.62	20.79	20.79	21.50
	256QAM	1	0	18.28	18.64	18.38	19.50
		1	38	18.34	18.44	18.60	19.50
		1	74	18.39	18.23	18.57	19.50
		36	0	18.40	18.52	18.54	19.50
		36	18	18.52	18.54	18.36	19.50
		36	39	18.44	18.54	18.52	19.50
		75	0	18.27	18.39	18.39	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	21.34	21.19	21.26	22.00
		1	50	20.95	21.25	21.29	22.00
		1	99	20.99	21.25	20.95	22.00
		50	0	21.16	21.20	21.18	22.00
		50	25	20.99	21.27	21.13	22.00
		50	50	20.92	21.22	21.20	22.00
		100	0	21.03	21.22	21.11	22.00

	16QAM	1	0	21.57	21.36	21.46	22.00
		1	50	21.26	21.46	21.58	22.00
		1	99	21.10	21.59	21.16	22.00
		50	0	21.18	21.20	21.17	22.00
		50	25	20.97	21.22	21.27	22.00
		50	50	20.93	21.25	21.17	22.00
		100	0	21.01	21.22	21.13	22.00
	64QAM	1	0	21.43	21.32	21.32	22.00
		1	50	21.08	21.24	21.55	22.00
		1	99	21.01	21.46	21.18	22.00
		50	0	20.81	20.85	20.76	21.50
		50	25	20.58	20.91	20.81	21.50
		50	50	20.58	20.85	20.79	21.50
		100	0	20.66	20.85	20.75	21.50
	256QAM	1	0	18.48	18.42	18.54	19.50
		1	50	18.36	18.56	18.50	19.50
		1	99	18.43	18.49	18.49	19.50
		50	0	18.40	18.38	18.30	19.50
		50	25	18.60	18.44	18.54	19.50
		50	50	18.50	18.20	18.46	19.50
		100	0	18.45	18.31	18.57	19.50

LTE Band 66

Receiver on--Ant0				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	18.76	18.03	17.83	19.50
		1	2	18.42	18.33	18.44	19.50
		1	5	18.01	18.55	18.26	19.50
		3	0	18.65	18.14	17.96	19.50
		3	2	18.36	18.12	18.10	19.50
		3	3	17.99	18.33	18.09	19.50
		6	0	18.21	18.06	18.24	19.50
	16QAM	1	0	19.42	18.19	18.39	19.50
		1	2	18.79	18.62	18.61	19.50
		1	5	17.86	19.17	18.70	19.50
		3	0	18.66	18.44	18.00	19.50
		3	2	18.27	18.66	17.94	19.50
		3	3	17.90	18.26	18.18	19.50
		6	0	18.02	18.46	18.46	19.50
	64QAM	1	0	19.31	17.95	18.54	19.50
		1	2	18.48	18.55	17.98	19.50
		1	5	18.17	18.96	18.15	19.50
		3	0	18.99	18.16	18.33	19.50

		3	2	18.00	18.55	17.96	19.50
		3	3	18.26	18.58	18.40	19.50
		6	0	18.46	18.53	18.12	19.50
	256QAM	1	0	17.56	17.49	17.58	19.00
		1	2	17.78	18.11	17.96	19.00
		1	5	17.45	18.36	17.83	19.00
		3	0	18.07	17.50	17.33	19.00
		3	2	17.66	17.67	17.48	19.00
		3	3	18.05	17.96	17.78	19.00
		6	0	17.88	17.85	17.38	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	18.72	17.93	18.21	19.50
		1	7	18.28	18.47	18.12	19.50
		1	14	18.17	18.49	18.14	19.50
		8	0	18.59	18.12	18.28	19.50
		8	4	18.34	18.52	18.18	19.50
		8	7	18.11	18.41	18.47	19.50
		15	0	18.41	18.42	18.36	19.50
	16QAM	1	0	19.36	18.31	18.59	19.50
		1	7	18.69	18.68	18.69	19.50
		1	14	18.20	19.05	18.50	19.50
		8	0	18.72	18.20	18.14	19.50
		8	4	18.41	18.54	18.18	19.50
		8	7	18.04	18.54	18.32	19.50
		15	0	18.28	18.38	18.16	19.50
	64QAM	1	0	19.17	18.31	18.54	19.50
		1	7	18.34	18.69	18.30	19.50
		1	14	18.17	18.92	18.29	19.50
		8	0	18.73	18.24	18.33	19.50
		8	4	18.16	18.49	18.14	19.50
		8	7	18.02	18.64	18.48	19.50
		15	0	18.24	18.45	18.14	19.50
	256QAM	1	0	17.78	17.49	17.46	19.00
		1	7	17.76	17.87	17.56	19.00
		1	14	17.57	18.24	17.85	19.00
		8	0	18.25	17.54	17.69	19.00
		8	4	17.48	17.97	17.50	19.00
		8	7	17.79	18.02	17.66	19.00
		15	0	17.62	18.01	17.70	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	18.72	17.83	18.23	19.50

		1	13	18.14	18.29	18.22	19.50
		1	24	17.95	18.45	18.08	19.50
		12	0	18.55	18.16	18.16	19.50
		12	6	18.10	18.44	18.14	19.50
		12	13	18.09	18.37	18.35	19.50
		25	0	18.11	18.36	18.20	19.50
	16QAM	1	0	19.18	18.39	18.53	19.50
		1	13	18.49	18.62	18.53	19.50
		1	24	18.24	18.81	18.30	19.50
		12	0	18.52	18.18	17.96	19.50
		12	6	18.29	18.54	18.04	19.50
		12	13	17.98	18.50	18.34	19.50
		25	0	18.36	18.42	18.18	19.50
	64QAM	1	0	19.07	17.97	18.20	19.50
		1	13	18.36	18.57	17.96	19.50
		1	24	18.05	18.74	18.23	19.50
		12	0	18.53	18.12	18.05	19.50
		12	6	18.08	18.57	18.00	19.50
		12	13	18.00	18.38	18.32	19.50
		25	0	18.18	18.49	18.16	19.50
	256QAM	1	0	17.66	17.55	17.78	19.00
		1	13	17.92	18.23	17.58	19.00
		1	24	17.61	18.12	17.83	19.00
		12	0	18.19	17.64	17.67	19.00
		12	6	17.78	17.83	17.64	19.00
		12	13	17.75	18.04	17.98	19.00
		25	0	17.54	17.73	17.52	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	18.62	17.99	18.01	19.50
		1	25	18.02	18.27	18.28	19.50
		1	49	17.91	18.63	18.02	19.50
		25	0	18.63	18.06	18.08	19.50
		25	13	18.10	18.36	18.38	19.50
		25	25	17.83	18.39	18.29	19.50
		50	0	18.19	18.56	18.14	19.50
	16QAM	1	0	19.14	18.43	18.55	19.50
		1	25	18.85	18.86	18.79	19.50
		1	49	18.28	19.13	18.24	19.50
		25	0	18.70	18.30	18.00	19.50
		25	13	18.13	18.38	18.04	19.50
		25	25	18.14	18.40	18.40	19.50
		50	0	18.40	18.26	18.10	19.50

	64QAM	1	0	19.13	18.05	18.20	19.50
		1	25	18.58	18.65	18.32	19.50
		1	49	17.97	18.94	18.25	19.50
		25	0	18.59	18.16	18.33	19.50
		25	13	18.28	18.35	18.14	19.50
		25	25	17.88	18.44	18.54	19.50
		50	0	18.38	18.37	18.16	19.50
	256QAM	1	0	17.76	17.65	17.62	19.00
		1	25	17.86	18.05	17.44	19.00
		1	49	17.49	17.98	17.77	19.00
		25	0	18.13	17.52	17.67	19.00
		25	13	17.66	17.73	17.66	19.00
		25	25	17.59	17.76	17.62	19.00
		50	0	17.56	17.79	17.42	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	18.86	18.03	18.21	19.50
		1	38	18.24	18.33	18.36	19.50
		1	74	17.89	18.67	18.06	19.50
		36	0	18.55	18.14	18.18	19.50
		36	18	18.36	18.32	18.08	19.50
		36	39	18.15	18.47	18.53	19.50
		75	0	18.19	18.52	18.16	19.50
	16QAM	1	0	19.32	18.25	18.63	19.50
		1	38	18.71	18.66	18.85	19.50
		1	74	18.24	18.87	18.58	19.50
		36	0	18.72	18.28	18.24	19.50
		36	18	18.23	18.58	18.14	19.50
		36	39	18.08	18.54	18.42	19.50
		75	0	18.44	18.50	18.16	19.50
	64QAM	1	0	19.07	18.07	18.36	19.50
		1	38	18.32	18.71	18.08	19.50
		1	74	18.29	18.68	18.33	19.50
		36	0	18.55	18.22	18.07	19.50
		36	18	18.42	18.53	18.14	19.50
		36	39	18.08	18.60	18.56	19.50
		75	0	18.26	18.61	18.14	19.50
	256QAM	1	0	17.58	17.37	17.60	19.00
		1	38	18.00	17.99	17.64	19.00
		1	74	17.47	18.02	17.83	19.00
		36	0	17.99	17.64	17.41	19.00
		36	18	17.80	17.99	17.82	19.00
		36	39	17.89	17.94	17.78	19.00

		75	0	17.86	17.77	17.64	19.00
Bandwidth	Modulation	RB Allocation	Offse t	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	18.78	17.99	18.15	19.50
		1	50	18.20	18.45	18.20	19.50
		1	99	18.01	18.51	18.18	19.50
		50	0	18.59	18.22	18.12	19.50
		50	25	18.22	18.44	18.20	19.50
		50	50	17.99	18.51	18.37	19.50
		100	0	18.25	18.38	18.20	19.50
	16QAM	1	0	19.22	18.33	18.53	19.50
		1	50	18.63	18.78	18.67	19.50
		1	99	18.20	18.93	18.40	19.50
		50	0	18.66	18.26	18.12	19.50
		50	25	18.29	18.50	18.20	19.50
		50	50	18.04	18.54	18.38	19.50
		100	0	18.26	18.38	18.20	19.50
	64QAM	1	0	19.03	18.15	18.38	19.50
		1	50	18.38	18.67	18.16	19.50
		1	99	18.13	18.78	18.37	19.50
		50	0	18.65	18.22	18.17	19.50
		50	25	18.26	18.49	18.20	19.50
		50	50	18.02	18.54	18.42	19.50
		100	0	18.24	18.43	18.20	19.50
	256QAM	1	0	17.82	17.49	17.86	19.00
		1	50	17.92	18.01	17.44	19.00
		1	99	17.53	18.06	17.95	19.00
		50	0	18.21	17.50	17.61	19.00
		50	25	17.58	17.83	17.78	19.00
		50	50	17.81	18.06	17.86	19.00
		100	0	17.78	17.99	17.52	19.00
LTE Band 66							
Receiver off--Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offse t	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	22.54	21.54	21.73	23.00
		1	2	22.01	22.18	21.86	23.00
		1	5	21.56	22.20	21.78	23.00
		3	0	22.24	21.90	21.73	23.00
		3	2	21.99	21.92	21.79	23.00
		3	3	21.42	21.82	21.82	23.00
		6	0	21.53	21.73	21.53	23.00
	16QAM	1	0	22.72	21.71	21.81	23.00

		1	2	21.88	22.35	21.99	23.00
		1	5	21.43	22.69	22.13	23.00
		3	0	22.80	21.87	21.91	23.00
		3	2	22.02	22.35	21.89	23.00
		3	3	21.59	22.81	22.19	23.00
		6	0	20.94	20.70	20.72	22.00
		1	0	21.61	20.91	20.45	22.00
	64QAM	1	2	20.80	21.10	20.61	22.00
		1	5	20.37	21.58	20.88	22.00
		3	0	21.77	20.93	20.61	22.00
		3	2	20.72	21.16	20.71	22.00
		3	3	20.47	21.60	20.94	22.00
		6	0	19.75	19.61	19.52	21.00
		1	0	17.57	17.78	17.78	19.00
	256QAM	1	2	17.58	18.09	18.12	19.00
		1	5	17.82	18.16	17.65	19.00
		3	0	17.89	17.56	17.31	19.00
		3	2	17.76	17.73	17.56	19.00
		3	3	17.67	17.88	17.66	19.00
		6	0	17.74	17.59	17.20	19.00
		1	0	17.57	17.78	17.78	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	22.40	21.60	21.77	23.00
		1	7	22.03	22.12	21.66	23.00
		1	14	21.46	22.30	21.84	23.00
		8	0	22.02	21.66	21.49	23.00
		8	4	21.85	22.12	21.59	23.00
		8	7	21.46	22.06	21.78	23.00
		15	0	21.91	21.81	21.85	23.00
	16QAM	1	0	22.50	21.69	22.13	23.00
		1	7	22.06	22.51	22.03	23.00
		1	14	21.59	22.57	22.09	23.00
		8	0	21.25	20.82	20.59	22.00
		8	4	20.86	21.05	20.74	22.00
		8	7	20.58	21.18	20.78	22.00
		15	0	20.70	21.02	20.80	22.00
	64QAM	1	0	21.47	20.59	20.93	22.00
		1	7	20.88	21.26	21.11	22.00
		1	14	20.31	21.44	20.98	22.00
		8	0	20.20	19.62	19.57	21.00
		8	4	19.70	20.02	19.78	21.00
		8	7	19.63	20.03	19.73	21.00
		15	0	19.89	19.99	19.70	21.00

	256QAM	1	0	17.61	18.08	17.64	19.00
		1	7	17.54	18.37	18.10	19.00
		1	14	17.96	18.32	17.87	19.00
		8	0	18.03	17.78	17.31	19.00
		8	4	17.80	17.55	17.64	19.00
		8	7	17.89	17.90	17.88	19.00
		15	0	17.84	17.45	17.36	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	22.38	21.68	21.65	23.00
		1	13	21.77	21.90	21.78	23.00
		1	24	21.36	22.08	21.52	23.00
		12	0	22.06	21.64	21.43	23.00
		12	6	21.75	21.80	21.53	23.00
		12	13	21.40	22.12	21.74	23.00
		25	0	21.55	21.87	21.79	23.00
	16QAM	1	0	22.42	21.61	21.79	23.00
		1	13	21.80	22.35	21.73	23.00
		1	24	21.53	22.43	22.07	23.00
		12	0	20.93	20.70	20.51	22.00
		12	6	20.66	21.07	20.72	22.00
		12	13	20.48	21.00	20.78	22.00
		25	0	20.74	20.74	20.54	22.00
	64QAM	1	0	21.41	20.61	20.61	22.00
		1	13	20.80	20.98	20.83	22.00
		1	24	20.47	21.36	20.64	22.00
		12	0	20.06	19.76	19.47	21.00
		12	6	19.80	19.84	19.56	21.00
		12	13	19.37	19.89	19.87	21.00
		25	0	19.61	19.67	19.78	21.00
	256QAM	1	0	17.83	18.04	17.92	19.00
		1	13	17.70	18.23	18.18	19.00
		1	24	17.84	18.38	17.93	19.00
		12	0	18.17	17.62	17.45	19.00
		12	6	17.70	17.73	17.48	19.00
		12	13	17.93	17.90	17.88	19.00
		25	0	17.70	17.49	17.38	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	22.54	21.48	21.69	23.00
		1	25	21.99	21.92	21.54	23.00
		1	49	21.30	22.14	21.68	23.00
		25	0	21.94	21.62	21.73	23.00

		25	13	21.83	21.94	21.87	23.00
		25	25	21.44	22.08	22.00	23.00
		50	0	21.77	21.95	21.63	23.00
		1	0	22.38	21.83	22.07	23.00
		1	25	21.92	22.49	21.85	23.00
		1	49	21.65	22.53	22.17	23.00
		25	0	21.05	20.60	20.49	22.00
		25	13	20.82	21.05	20.62	22.00
		25	25	20.68	21.20	20.94	22.00
		50	0	20.76	20.88	20.88	22.00
	16QAM	1	0	21.37	20.49	20.65	22.00
		1	25	21.06	21.08	20.87	22.00
		1	49	20.31	21.52	20.84	22.00
		25	0	20.06	19.58	19.83	21.00
		25	13	19.84	19.94	19.76	21.00
		25	25	19.29	20.09	20.01	21.00
		50	0	19.65	19.77	19.82	21.00
	64QAM	1	0	17.75	17.90	17.78	19.00
		1	25	17.62	18.27	18.02	19.00
		1	49	17.80	18.36	17.85	19.00
		25	0	18.05	17.66	17.29	19.00
		25	13	17.78	17.65	17.60	19.00
		25	25	17.85	17.88	17.72	19.00
		50	0	17.74	17.49	17.22	19.00
	256QAM	1	0	22.20	21.54	21.59	23.00
		1	38	21.89	22.06	21.82	23.00
		1	74	21.42	22.26	21.68	23.00
		36	0	22.08	21.84	21.51	23.00
		36	18	21.85	21.88	21.69	23.00
		36	39	21.40	22.22	21.88	23.00
		75	0	21.89	21.75	21.85	23.00
15MHz	QPSK	1	0	22.70	21.63	22.05	23.00
		1	38	21.96	22.31	21.79	23.00
		1	74	21.41	22.55	21.97	23.00
		36	0	21.11	20.68	20.57	22.00
		36	18	20.78	21.03	20.66	22.00
		36	39	20.56	20.98	20.98	22.00
		75	0	20.74	20.78	20.84	22.00
	16QAM	1	0	21.57	20.75	20.85	22.00
		1	38	20.96	21.08	20.99	22.00
		1	74	20.35	21.48	21.00	22.00
	64QAM	1	0	22.20	21.54	21.59	23.00
		1	38	21.89	22.06	21.82	23.00
		1	74	21.42	22.26	21.68	23.00
	QPSK	36	0	22.08	21.84	21.51	23.00
		36	18	21.85	21.88	21.69	23.00
		36	39	21.40	22.22	21.88	23.00
	16QAM	75	0	21.89	21.75	21.85	23.00
		1	0	22.70	21.63	22.05	23.00
		1	38	21.96	22.31	21.79	23.00
	64QAM	1	74	21.41	22.55	21.97	23.00
		36	0	21.11	20.68	20.57	22.00
		36	18	20.78	21.03	20.66	22.00
	256QAM	36	39	20.56	20.98	20.98	22.00
		75	0	20.74	20.78	20.84	22.00
		1	0	21.57	20.75	20.85	22.00
	16QAM	1	38	20.96	21.08	20.99	22.00
		1	74	20.35	21.48	21.00	22.00
		36	0	22.08	21.84	21.51	23.00
	64QAM	36	18	21.85	21.88	21.69	23.00
		36	39	21.40	22.22	21.88	23.00
		75	0	21.89	21.75	21.85	23.00

		36	0	20.10	19.66	19.77	21.00
		36	18	19.84	20.06	19.72	21.00
		36	39	19.53	19.97	20.01	21.00
		75	0	19.85	19.91	19.82	21.00
	256QAM	1	0	17.40	17.49	17.66	19.00
		1	38	17.56	18.15	17.86	19.00
		1	74	17.43	18.32	17.89	19.00
		36	0	18.17	17.48	17.23	19.00
		36	18	17.66	17.77	17.60	19.00
		36	39	17.83	17.98	17.82	19.00
		75	0	17.72	17.55	17.32	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	22.32	21.58	21.69	23.00
		1	50	21.89	22.00	21.72	23.00
		1	99	21.40	22.22	21.68	23.00
		50	0	22.12	21.72	21.57	23.00
		50	25	21.71	21.96	21.65	23.00
		50	50	21.48	22.04	21.84	23.00
		100	0	21.75	21.85	21.73	23.00
	16QAM	1	0	22.52	21.73	21.97	23.00
		1	50	21.98	22.35	21.91	23.00
		1	99	21.49	22.45	22.07	23.00
		50	0	21.09	20.70	20.61	22.00
		50	25	20.74	20.99	20.70	22.00
		50	50	20.52	21.04	20.84	22.00
		100	0	20.76	20.88	20.70	22.00
	64QAM	1	0	21.45	20.67	20.77	22.00
		1	50	20.86	21.12	20.97	22.00
		1	99	20.37	21.32	20.82	22.00
		50	0	20.12	19.72	19.61	21.00
		50	25	19.76	19.92	19.70	21.00
		50	50	19.47	20.03	19.83	21.00
		100	0	19.75	19.85	19.70	21.00
	256QAM	1	0	17.48	17.65	17.58	19.00
		1	50	17.84	18.01	17.90	19.00
		1	99	17.37	18.18	17.87	19.00
		50	0	18.01	17.54	17.35	19.00
		50	25	17.74	17.75	17.72	19.00
		50	50	18.17	17.84	17.70	19.00
		100	0	17.80	17.87	17.54	19.00
LTE Band 66							
Hotspot on--Ant0				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	16.73	15.93	15.92	17.50
		1	2	16.02	16.32	15.98	17.50
		1	5	15.93	16.44	15.94	17.50
		3	0	16.29	16.01	15.96	17.50
		3	2	16.07	16.31	16.19	17.50
		3	3	16.02	16.38	16.15	17.50
		6	0	16.11	16.50	16.10	17.50
	16QAM	1	0	16.90	16.30	16.43	17.50
		1	2	16.34	16.67	16.55	17.50
		1	5	15.86	16.63	16.28	17.50
		3	0	16.45	16.17	16.08	17.50
		3	2	16.28	16.24	15.71	17.50
		3	3	15.83	16.32	16.10	17.50
		6	0	16.36	16.05	15.93	17.50
	64QAM	1	0	17.03	15.93	16.24	17.50
		1	2	16.13	16.42	16.30	17.50
		1	5	16.22	16.84	16.44	17.50
		3	0	16.42	16.14	16.14	17.50
		3	2	15.83	16.48	16.20	17.50
		3	3	15.79	16.42	16.27	17.50
		6	0	16.36	16.38	16.35	17.50
	256QAM	1	0	16.53	16.23	16.20	17.50
		1	2	16.41	16.58	16.20	17.50
		1	5	16.38	16.54	16.74	17.50
		3	0	16.44	15.84	16.12	17.50
		3	2	16.31	16.46	15.98	17.50
		3	3	16.17	16.52	15.91	17.50
		6	0	16.50	16.26	15.93	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	16.83	16.03	16.04	17.50
		1	7	16.16	16.34	15.90	17.50
		1	14	16.01	16.64	16.12	17.50
		8	0	16.49	16.25	16.10	17.50
		8	4	16.15	16.43	16.03	17.50
		8	7	16.02	16.56	16.29	17.50
		15	0	16.21	16.30	16.06	17.50
	16QAM	1	0	16.96	16.08	16.33	17.50
		1	7	16.44	16.75	16.51	17.50
		1	14	15.94	16.87	16.34	17.50
		8	0	16.41	16.07	16.12	17.50

		8	4	16.28	16.28	15.95	17.50
		8	7	15.97	16.56	16.28	17.50
		15	0	16.20	16.19	16.09	17.50
	64QAM	1	0	17.03	16.09	16.10	17.50
		1	7	16.35	16.56	16.52	17.50
		1	14	16.12	16.74	16.48	17.50
		8	0	16.42	16.08	16.00	17.50
		8	4	16.19	16.48	16.14	17.50
		8	7	15.83	16.54	16.35	17.50
		15	0	16.34	16.16	16.01	17.50
		1	0	16.37	16.23	16.16	17.50
	256QAM	1	7	16.35	16.54	16.32	17.50
		1	14	16.40	16.52	16.60	17.50
		8	0	16.36	15.96	15.94	17.50
		8	4	16.21	16.46	16.10	17.50
		8	7	16.27	16.52	15.93	17.50
		15	0	16.42	16.16	15.93	17.50
		1	0	16.37	16.23	16.16	17.50
		1	7	16.35	16.54	16.32	17.50
		1	14	16.40	16.52	16.60	17.50
		8	0	16.36	15.96	15.94	17.50
		8	4	16.21	16.46	16.10	17.50
		8	7	16.27	16.52	15.93	17.50
		15	0	16.42	16.16	15.93	17.50
		1	0	16.37	16.23	16.16	17.50
		1	7	16.35	16.54	16.32	17.50
		1	14	16.40	16.52	16.60	17.50
		8	0	16.36	15.96	15.94	17.50
		8	4	16.21	16.46	16.10	17.50
		8	7	16.27	16.52	15.93	17.50
		15	0	16.42	16.16	15.93	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	16.71	15.77	16.06	17.50
		1	13	16.00	16.12	16.06	17.50
		1	24	15.79	16.36	15.92	17.50
		12	0	16.39	16.15	16.10	17.50
		12	6	16.03	16.17	15.99	17.50
		12	13	15.68	16.28	16.21	17.50
		25	0	16.15	16.26	15.88	17.50
		1	0	16.86	16.16	16.25	17.50
	16QAM	1	13	16.42	16.71	16.35	17.50
		1	24	15.88	16.69	16.34	17.50
		12	0	16.51	15.99	16.04	17.50
		12	6	16.04	16.22	15.91	17.50
		12	13	15.81	16.26	16.28	17.50
		25	0	16.00	16.35	15.87	17.50
		1	0	16.83	16.15	16.28	17.50
		1	13	16.25	16.52	16.36	17.50
	64QAM	1	24	15.96	16.78	16.38	17.50
		12	0	16.58	16.14	16.10	17.50
		12	6	15.95	16.24	16.00	17.50
		12	13	15.87	16.50	16.33	17.50
		25	0	16.06	16.34	15.89	17.50
		1	0	16.49	16.09	16.26	17.50
		1	13	16.19	16.60	16.32	17.50
		1	24	16.36	16.66	16.40	17.50
	256QAM	1	0	16.49	16.09	16.26	17.50
		1	13	16.19	16.60	16.32	17.50
		1	24	16.36	16.66	16.40	17.50

		12	0	16.44	16.24	16.02	17.50
		12	6	16.07	16.28	16.04	17.50
		12	13	16.25	16.38	16.19	17.50
		25	0	16.26	16.42	16.13	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	16.81	15.87	16.02	17.50
		1	25	16.22	16.44	16.16	17.50
		1	49	15.99	16.68	15.98	17.50
		25	0	16.65	15.97	16.02	17.50
		25	13	16.31	16.17	16.03	17.50
		25	25	15.94	16.50	16.37	17.50
		50	0	16.07	16.22	15.96	17.50
	16QAM	1	0	17.04	16.24	16.25	17.50
		1	25	16.68	16.83	16.67	17.50
		1	49	15.72	16.61	16.60	17.50
		25	0	16.65	16.19	15.82	17.50
		25	13	16.14	16.38	16.19	17.50
		25	25	16.01	16.36	16.18	17.50
		50	0	16.10	16.31	16.09	17.50
	64QAM	1	0	17.07	16.27	16.34	17.50
		1	25	16.15	16.46	16.22	17.50
		1	49	15.90	16.82	16.40	17.50
		25	0	16.62	16.06	16.06	17.50
		25	13	16.15	16.32	16.28	17.50
		25	25	15.83	16.26	16.07	17.50
		50	0	16.14	16.16	16.03	17.50
	256QAM	1	0	16.27	16.15	16.14	17.50
		1	25	16.29	16.56	16.34	17.50
		1	49	16.40	16.60	16.26	17.50
		25	0	16.56	16.04	16.08	17.50
		25	13	15.97	16.20	16.08	17.50
		25	25	16.21	16.28	16.33	17.50
		50	0	16.04	16.14	15.99	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	16.83	15.93	16.08	17.50
		1	38	16.24	16.32	15.98	17.50
		1	74	15.79	16.46	16.14	17.50
		36	0	16.61	16.07	15.94	17.50
		36	18	16.29	16.37	16.17	17.50
		36	39	16.04	16.44	16.21	17.50
		75	0	16.09	16.32	16.18	17.50

	16QAM	1	0	17.16	16.12	16.29	17.50
		1	38	16.64	16.59	16.37	17.50
		1	74	15.96	16.69	16.30	17.50
		36	0	16.63	16.19	16.12	17.50
		36	18	16.16	16.40	15.99	17.50
		36	39	15.97	16.42	16.20	17.50
		75	0	16.22	16.27	16.11	17.50
	64QAM	1	0	16.79	16.27	16.32	17.50
		1	38	16.37	16.70	16.34	17.50
		1	74	16.02	16.74	16.56	17.50
		36	0	16.56	16.06	16.02	17.50
		36	18	16.23	16.48	16.02	17.50
		36	39	15.99	16.48	16.41	17.50
		75	0	16.26	16.14	16.07	17.50
	256QAM	1	0	16.39	15.97	16.38	17.50
		1	38	16.29	16.38	16.28	17.50
		1	74	16.46	16.80	16.44	17.50
		36	0	16.60	16.06	15.98	17.50
		36	18	16.23	16.40	16.20	17.50
		36	39	16.07	16.30	16.25	17.50
		75	0	16.12	16.14	16.29	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	16.75	15.97	16.02	17.50
		1	50	16.08	16.32	16.00	17.50
		1	99	15.89	16.50	16.06	17.50
		50	0	16.51	16.11	16.02	17.50
		50	25	16.17	16.35	16.05	17.50
		50	50	15.88	16.42	16.25	17.50
		100	0	16.13	16.28	16.08	17.50
	16QAM	1	0	17.06	16.14	16.33	17.50
		1	50	16.50	16.65	16.47	17.50
		1	99	15.90	16.75	16.42	17.50
		50	0	16.49	16.11	15.96	17.50
		50	25	16.18	16.32	16.03	17.50
		50	50	15.91	16.40	16.26	17.50
		100	0	16.14	16.25	16.07	17.50
	64QAM	1	0	16.89	16.15	16.18	17.50
		1	50	16.27	16.52	16.36	17.50
		1	99	16.00	16.70	16.40	17.50
		50	0	16.50	16.10	16.02	17.50
		50	25	16.13	16.34	16.08	17.50
		50	50	15.91	16.42	16.23	17.50
		50	50	15.91	16.42	16.23	17.50

		100	0	16.18	16.26	16.09	17.50
	256QAM	1	0	16.23	16.03	16.26	17.50
		1	50	16.39	16.40	16.38	17.50
		1	99	16.40	16.76	16.52	17.50
		50	0	16.64	16.22	16.18	17.50
		50	25	16.23	16.24	16.20	17.50
		50	50	16.31	16.52	16.23	17.50
		100	0	16.12	16.40	16.07	17.50

LTE Band 38							
Receiver on& Receiver off--Ant0				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	21.19	21.10	20.77	22.20
		1	13	21.22	21.15	20.80	22.20
		1	24	21.07	21.02	20.76	22.20
		12	0	20.27	19.98	19.81	21.20
		12	6	20.23	19.99	19.85	21.20
		12	13	20.19	20.01	19.80	21.20
		25	0	20.24	19.96	19.82	21.20
	16QAM	1	0	20.14	20.08	19.82	21.20
		1	13	20.21	20.08	19.86	21.20
		1	24	20.06	19.92	19.82	21.20
		12	0	19.21	18.99	18.77	20.20
		12	6	19.26	18.97	18.88	20.20
		12	13	19.21	18.99	18.83	20.20
		25	0	19.27	18.99	18.79	20.20
	64QAM	1	0	19.12	19.05	18.80	20.20
		1	13	19.29	19.03	18.87	20.20
		1	24	19.13	18.95	18.74	20.20
		12	0	18.27	18.04	17.82	19.20
		12	6	18.26	17.99	17.83	19.20
		12	13	18.15	18.03	17.80	19.20
		25	0	18.24	17.96	17.86	19.20
	256QAM	1	0	15.61	15.63	15.57	17.20
		1	13	15.86	15.82	15.68	17.20
		1	24	15.74	15.78	15.80	17.20
		12	0	15.67	15.63	15.81	17.20
		12	6	15.88	15.80	15.82	17.20
		12	13	15.97	15.99	15.79	17.20
		25	0	15.89	15.89	15.87	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	21.10	21.17	20.90	22.20
		1	25	21.01	21.07	20.86	22.20
		1	49	20.90	20.92	20.86	22.20
		25	0	20.15	19.99	19.77	21.20
		25	13	20.12	20.01	19.80	21.20
		25	25	20.06	19.99	19.85	21.20
		50	0	20.12	19.98	19.76	21.20
	16QAM	1	0	20.27	19.90	19.87	21.20

		1	25	20.07	19.92	19.83	21.20
		1	49	20.11	19.97	19.77	21.20
		25	0	19.14	19.03	18.82	20.20
		25	13	19.15	18.97	18.78	20.20
		25	25	19.04	19.06	18.83	20.20
		50	0	19.14	18.95	18.82	20.20
	64QAM	1	0	19.06	19.15	18.74	20.20
		1	25	19.13	19.08	18.78	20.20
		1	49	18.87	18.77	18.69	20.20
		25	0	18.20	18.03	17.82	19.20
		25	13	18.17	18.04	17.82	19.20
		25	25	18.07	18.04	17.86	19.20
		50	0	18.13	18.01	17.83	19.20
	256QAM	1	0	15.63	15.57	15.47	17.20
		1	25	15.70	15.80	15.84	17.20
		1	49	15.80	15.82	15.58	17.20
		25	0	15.61	15.61	15.71	17.20
		25	13	15.94	15.92	15.96	17.20
		25	25	15.91	15.63	15.87	17.20
		50	0	15.83	15.69	15.85	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	20.97	20.82	20.74	22.20
		1	38	20.79	20.81	20.69	22.20
		1	74	20.74	20.76	20.67	22.20
		36	0	19.99	19.87	19.65	21.20
		36	18	19.94	19.85	19.71	21.20
		36	39	19.90	19.86	19.69	21.20
		75	0	19.94	19.83	19.65	21.20
	16QAM	1	0	20.14	19.89	19.67	21.20
		1	38	19.90	19.83	19.70	21.20
		1	74	19.81	19.71	19.62	21.20
		36	0	18.95	18.87	18.65	20.20
		36	18	18.95	18.82	18.74	20.20
		36	39	18.96	18.83	18.77	20.20
		75	0	18.98	18.87	18.65	20.20
	64QAM	1	0	19.08	18.90	18.65	20.20
		1	38	18.82	18.89	18.46	20.20
		1	74	18.90	18.89	18.48	20.20
		36	0	18.01	17.86	17.67	19.20
		36	18	17.97	17.85	17.74	19.20
		36	39	17.95	17.83	17.72	19.20
		75	0	17.99	17.89	17.67	19.20

	256QAM	1	0	15.65	15.69	15.63	17.20
		1	38	15.78	15.90	15.70	17.20
		1	74	15.86	15.84	15.80	17.20
		36	0	15.87	15.49	15.87	17.20
		36	18	16.02	15.84	15.80	17.20
		36	39	15.79	16.05	16.01	17.20
		75	0	16.09	16.09	16.09	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	20.96	20.95	20.79	22.20
		1	50	20.76	20.86	20.72	22.20
		1	99	20.78	20.83	20.64	22.20
		50	0	19.92	19.89	19.71	21.20
		50	25	19.96	19.88	19.73	21.20
		50	50	19.92	19.86	19.69	21.20
		100	0	19.98	19.89	19.64	21.20
	16QAM	1	0	19.92	19.79	19.57	21.20
		1	50	19.94	19.79	19.63	21.20
		1	99	19.89	19.76	19.56	21.20
		50	0	18.94	18.86	18.67	20.20
		50	25	18.99	18.85	18.73	20.20
		50	50	18.96	18.83	18.70	20.20
		100	0	19.04	18.87	18.65	20.20
	64QAM	1	0	18.90	18.74	18.65	20.20
		1	50	18.85	18.83	18.67	20.20
		1	99	18.83	18.87	18.55	20.20
		50	0	17.94	17.90	17.67	19.20
		50	25	17.98	17.83	17.76	19.20
		50	50	17.97	17.87	17.78	19.20
		100	0	18.01	17.90	17.65	19.20
	256QAM	1	0	15.79	15.61	15.71	17.20
		1	50	15.68	15.94	15.82	17.20
		1	99	15.88	15.82	15.72	17.20
		50	0	15.63	15.63	15.73	17.20
		50	25	16.00	16.08	15.90	17.20
		50	50	15.95	15.79	15.93	17.20
		100	0	15.93	16.05	15.99	17.20
LTE Band 38							
Hotspot on--Ant0				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	19.94	19.93	19.72	20.70
		1	13	19.69	19.79	19.53	20.70

		1	24	19.60	19.82	19.35	20.70
		12	0	20.33	20.13	19.92	20.70
		12	6	20.33	20.08	19.99	20.70
		12	13	20.26	20.08	19.97	20.70
		25	0	20.28	20.08	19.92	20.70
		1	0	20.42	20.19	19.87	20.70
		1	13	20.30	20.13	19.73	20.70
		1	24	20.14	20.07	20.02	20.70
		12	0	19.35	19.12	18.87	20.20
		12	6	19.30	19.11	18.90	20.20
	16QAM	12	13	19.26	19.17	18.87	20.20
		25	0	19.33	19.07	18.92	20.20
		1	0	19.11	19.17	18.83	20.20
		1	13	19.24	19.13	18.94	20.20
		1	24	19.08	18.97	18.79	20.20
		12	0	18.33	18.08	17.95	19.20
		12	6	18.28	18.13	17.98	19.20
	64QAM	12	13	18.23	18.15	17.96	19.20
		25	0	18.29	18.07	17.94	19.20
		1	0	15.75	15.79	15.67	17.20
		1	13	15.82	15.80	15.68	17.20
		1	24	15.80	15.70	15.88	17.20
		12	0	15.71	15.69	15.95	17.20
		12	6	16.04	15.80	15.90	17.20
	256QAM	12	13	15.87	16.09	15.93	17.20
		25	0	15.79	15.97	15.91	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	19.88	19.99	19.66	20.70
		1	25	19.65	19.87	19.67	20.70
		1	49	19.80	19.82	19.73	20.70
		25	0	20.22	20.10	19.90	20.70
		25	13	20.20	20.10	19.90	20.70
		25	25	20.14	20.10	19.95	20.70
		50	0	20.19	20.06	19.87	20.70
	16QAM	1	0	20.36	20.17	19.99	20.70
		1	25	20.15	20.12	19.98	20.70
		1	49	20.15	20.03	19.92	20.70
		25	0	19.26	19.10	18.89	20.20
		25	13	19.22	19.08	18.90	20.20
		25	25	19.15	19.13	18.95	20.20
		50	0	19.23	19.07	18.86	20.20
	64QAM	1	0	19.26	19.08	18.87	20.20

		1	25	19.15	19.24	18.82	20.20
		1	49	19.03	19.15	18.82	20.20
		25	0	18.32	18.15	17.94	19.20
		25	13	18.24	18.12	17.96	19.20
		25	25	18.15	18.14	17.97	19.20
		50	0	18.21	18.08	17.92	19.20
	256QAM	1	0	15.63	15.47	15.37	17.20
		1	25	15.72	15.88	15.60	17.20
		1	49	15.64	15.82	15.68	17.20
		25	0	15.61	15.49	15.91	17.20
		25	13	15.84	15.80	15.72	17.20
		25	25	15.79	16.05	15.79	17.20
		50	0	15.99	15.69	15.79	17.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	19.86	19.93	19.88	20.70
		1	38	19.63	19.83	19.77	20.70
		1	74	19.96	19.98	19.71	20.70
		36	0	20.05	19.95	19.77	20.70
		36	18	20.02	19.92	19.83	20.70
		36	39	19.98	19.95	19.81	20.70
		75	0	20.03	19.97	19.74	20.70
	16QAM	1	0	20.17	19.92	19.64	20.70
		1	38	20.03	19.97	19.77	20.70
		1	74	19.89	19.78	19.63	20.70
		36	0	19.06	18.95	18.74	20.20
		36	18	19.02	18.92	18.83	20.20
		36	39	19.05	18.99	18.80	20.20
		75	0	19.07	18.96	18.74	20.20
	64QAM	1	0	19.03	18.92	18.79	20.20
		1	38	19.12	18.97	18.61	20.20
		1	74	18.90	18.79	18.80	20.20
		36	0	18.10	17.97	17.78	19.20
		36	18	18.08	17.99	17.83	19.20
		36	39	18.04	17.99	17.82	19.20
		75	0	18.10	17.98	17.82	19.20
	256QAM	1	0	15.79	15.57	15.55	17.20
		1	38	16.02	15.82	15.52	17.20
		1	74	15.76	15.76	15.98	17.20
		36	0	15.79	15.69	15.81	17.20
		36	18	15.88	15.96	15.92	17.20
		36	39	15.91	16.01	15.69	17.20
		75	0	16.05	15.87	15.87	17.20

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	19.94	19.77	19.66	20.70
		1	50	19.65	19.83	19.83	20.70
		1	99	19.72	19.86	19.55	20.70
		50	0	19.98	19.98	19.80	20.70
		50	25	20.01	19.95	19.83	20.70
		50	50	20.02	19.94	19.82	20.70
		100	0	20.06	19.96	19.74	20.70
	16QAM	1	0	20.24	19.82	19.77	20.70
		1	50	20.05	19.95	19.74	20.70
		1	99	19.86	19.82	19.74	20.70
		50	0	19.01	18.97	18.78	20.20
		50	25	19.05	18.97	18.81	20.20
		50	50	19.04	18.96	18.83	20.20
		100	0	19.05	18.98	18.78	20.20
	64QAM	1	0	19.14	18.82	18.77	20.20
		1	50	18.83	18.92	18.65	20.20
		1	99	18.85	18.76	18.72	20.20
		50	0	18.06	17.98	17.81	19.20
		50	25	18.10	17.96	17.88	19.20
		50	50	18.06	17.95	17.82	19.20
		100	0	18.10	17.99	17.82	19.20
	256QAM	1	0	15.71	15.73	15.65	17.20
		1	50	15.88	15.96	15.80	17.20
		1	99	15.84	15.70	15.70	17.20
		50	0	15.63	15.53	15.71	17.20
		50	25	16.06	15.76	15.82	17.20
		50	50	15.99	16.13	15.79	17.20
		100	0	15.79	15.77	15.79	17.20
LTE Band 38							
Receiver on--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	18.12	18.01	18.04	18.90
		1	13	18.11	18.08	18.10	18.90
		1	24	18.03	17.99	18.10	18.90
		12	0	18.12	18.04	18.14	18.90
		12	6	18.14	18.06	18.17	18.90
		12	13	18.10	18.02	18.15	18.90
		25	0	18.12	18.05	18.17	18.90
	16QAM	1	0	18.13	18.01	18.24	18.90
		1	13	18.12	18.19	18.13	18.90

		1	24	18.14	18.03	18.19	18.90
		12	0	18.14	18.04	18.08	18.90
		12	6	18.14	18.01	18.17	18.90
		12	13	18.13	18.03	18.19	18.90
		25	0	18.14	18.03	18.17	18.90
	64QAM	1	0	17.92	17.96	17.99	18.90
		1	13	18.13	18.13	18.03	18.90
		1	24	17.99	18.01	18.03	18.90
		12	0	17.23	17.13	17.21	18.20
		12	6	17.28	17.17	17.26	18.20
		12	13	17.17	17.13	17.29	18.20
		25	0	17.21	17.19	17.23	18.20
	256QAM	1	0	15.06	15.06	15.00	16.20
		1	13	14.83	14.91	14.73	16.20
		1	24	14.85	15.01	14.83	16.20
		12	0	14.93	15.05	15.13	16.20
		12	6	15.09	14.91	15.01	16.20
		12	13	15.04	14.98	15.04	16.20
		25	0	15.15	14.99	14.91	16.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	17.99	18.01	18.07	18.90
		1	25	17.96	18.10	18.15	18.90
		1	49	17.95	18.04	18.23	18.90
		25	0	18.11	18.06	18.08	18.90
		25	13	18.07	18.06	18.12	18.90
		25	25	18.04	18.08	18.14	18.90
		50	0	18.08	18.05	18.12	18.90
	16QAM	1	0	18.11	18.15	18.07	18.90
		1	25	18.06	18.10	18.15	18.90
		1	49	18.08	18.10	18.19	18.90
		25	0	18.12	18.01	18.11	18.90
		25	13	18.08	18.13	18.15	18.90
		25	25	18.07	18.11	18.15	18.90
		50	0	18.10	18.05	18.13	18.90
	64QAM	1	0	17.99	18.07	17.98	18.90
		1	25	18.05	18.12	18.01	18.90
		1	49	17.82	17.90	18.08	18.90
		25	0	17.24	17.14	17.22	18.20
		25	13	17.20	17.20	17.27	18.20
		25	25	17.15	17.21	17.30	18.20
		50	0	17.17	17.14	17.23	18.20
	256QAM	1	0	14.72	14.94	14.98	16.20

		1	25	14.63	14.65	14.75	16.20
		1	49	14.91	14.83	14.67	16.20
		25	0	14.85	14.77	14.87	16.20
		25	13	14.95	14.85	14.79	16.20
		25	25	14.98	14.88	15.00	16.20
		50	0	14.95	15.05	14.87	16.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	17.83	17.90	17.88	18.90
		1	38	17.79	17.94	17.90	18.90
		1	74	17.76	17.92	17.97	18.90
		36	0	17.90	17.94	17.98	18.90
		36	18	17.96	17.92	17.98	18.90
		36	39	17.92	17.99	18.04	18.90
		75	0	17.99	17.97	18.01	18.90
	16QAM	1	0	17.83	18.07	17.85	18.90
		1	38	17.98	17.90	17.96	18.90
		1	74	17.88	17.97	18.06	18.90
		36	0	17.92	17.94	17.98	18.90
		36	18	17.96	17.90	17.97	18.90
		36	39	17.92	17.98	18.04	18.90
		75	0	17.98	17.95	17.99	18.90
	64QAM	1	0	18.04	17.90	17.88	18.90
		1	38	17.83	17.83	17.99	18.90
		1	74	17.55	17.86	17.82	18.90
		36	0	17.00	17.01	17.07	18.20
		36	18	17.07	17.03	17.10	18.20
		36	39	17.04	17.07	17.15	18.20
		75	0	17.06	17.06	17.12	18.20
	256QAM	1	0	14.90	14.88	14.80	16.20
		1	38	14.93	14.79	14.97	16.20
		1	74	15.03	14.83	14.73	16.20
		36	0	14.99	15.15	15.05	16.20
		36	18	15.09	14.97	15.13	16.20
		36	39	14.98	15.10	15.10	16.20
		75	0	14.91	14.91	15.03	16.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	17.90	17.80	17.83	18.90
		1	50	17.82	17.87	17.85	18.90
		1	99	17.83	17.90	18.03	18.90
		50	0	17.90	17.92	17.96	18.90
		50	25	17.98	17.98	17.97	18.90

		50	50	17.97	17.98	17.97	18.90
		100	0	17.99	17.97	17.99	18.90
	16QAM	1	0	17.97	17.79	17.80	18.90
		1	50	17.94	18.05	17.81	18.90
		1	99	17.92	17.99	17.96	18.90
		50	0	17.90	17.92	17.96	18.90
		50	25	17.94	17.98	17.96	18.90
		50	50	17.92	17.98	17.95	18.90
		100	0	17.99	17.95	17.97	18.90
		64QAM	1	0	17.94	17.69	17.92
	1		50	18.03	17.86	17.83	18.90
	1		99	17.77	17.90	17.85	18.90
	50		0	16.99	17.01	17.07	18.20
	50		25	17.05	17.09	17.05	18.20
	50		50	17.05	17.11	17.08	18.20
	100		0	17.07	17.05	17.09	18.20
	256QAM	1	0	14.88	14.78	14.86	16.20
		1	50	14.65	14.87	14.87	16.20
		1	99	14.91	14.79	14.69	16.20
		50	0	14.95	14.95	15.13	16.20
		50	25	15.15	14.77	15.11	16.20
		50	50	15.14	14.80	14.94	16.20
		100	0	14.81	15.19	15.13	16.20
LTE Band 38							
Receiver off--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	20.20	20.06	20.11	21.20
		1	13	20.25	20.13	20.16	21.20
		1	24	20.08	20.04	20.12	21.20
		12	0	19.19	19.08	19.13	20.20
		12	6	19.20	19.10	19.20	20.20
		12	13	19.13	19.08	19.20	20.20
		25	0	19.16	19.04	19.20	20.20
	16QAM	1	0	19.26	19.11	19.04	20.20
		1	13	19.22	19.25	19.24	20.20
		1	24	19.16	19.08	19.24	20.20
		12	0	18.17	18.03	18.13	19.20
		12	6	18.19	18.06	18.16	19.20
		12	13	18.10	18.09	18.22	19.20
		25	0	18.19	18.08	18.22	19.20
	64QAM	1	0	17.94	18.10	18.20	19.20
		1	13	17.99	18.13	18.32	19.20

		1	24	18.13	18.13	18.10	19.20
		12	0	17.17	17.06	17.14	18.20
		12	6	17.26	17.10	17.25	18.20
		12	13	17.24	17.12	17.28	18.20
		25	0	17.20	17.05	17.22	18.20
	256QAM	1	0	15.10	14.66	14.63	16.20
		1	13	14.77	14.89	14.53	16.20
		1	24	15.07	14.93	14.43	16.20
		12	0	14.87	15.03	14.90	16.20
		12	6	15.13	14.81	14.33	16.20
		12	13	14.92	14.94	14.81	16.20
		25	0	14.95	15.03	14.63	16.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	20.07	20.11	20.08	21.20
		1	25	20.06	20.17	20.17	21.20
		1	49	19.97	20.10	20.17	21.20
		25	0	19.16	19.09	19.11	20.20
		25	13	19.11	19.09	19.19	20.20
		25	25	19.11	19.08	19.20	20.20
		50	0	19.11	19.13	19.16	20.20
	16QAM	1	0	19.22	19.29	19.18	20.20
		1	25	19.12	19.12	19.26	20.20
		1	49	19.11	19.15	19.26	20.20
		25	0	18.18	18.09	18.09	19.20
		25	13	18.13	18.09	18.20	19.20
		25	25	18.10	18.11	18.20	19.20
		50	0	18.13	18.13	18.19	19.20
	64QAM	1	0	18.20	17.97	18.00	19.20
		1	25	18.06	18.06	18.08	19.20
		1	49	18.07	18.03	18.19	19.20
		25	0	17.14	17.09	17.15	18.20
		25	13	17.15	17.11	17.19	18.20
		25	25	17.13	17.16	17.26	18.20
		50	0	17.17	17.13	17.20	18.20
	256QAM	1	0	15.06	14.94	14.85	16.20
		1	25	14.85	14.81	14.67	16.20
		1	49	14.97	14.91	14.53	16.20
		25	0	15.01	14.87	14.92	16.20
		25	13	15.11	15.03	14.71	16.20
		25	25	15.08	15.00	14.79	16.20
		50	0	14.81	15.03	14.79	16.20
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)			Tune-up

		RB Allocation		37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	19.95	19.90	19.87	21.20
		1	38	19.79	19.95	19.88	21.20
		1	74	19.81	19.91	19.95	21.20
		36	0	18.91	18.95	19.00	20.20
		36	18	18.97	18.97	19.01	20.20
		36	39	18.97	19.00	19.07	20.20
		75	0	19.01	19.00	19.02	20.20
	16QAM	1	0	19.06	18.92	18.81	20.20
		1	38	18.91	18.97	19.04	20.20
		1	74	18.79	18.85	19.04	20.20
		36	0	17.92	17.94	17.99	19.20
		36	18	17.99	17.99	18.02	19.20
		36	39	17.99	18.04	18.10	19.20
		75	0	17.97	17.97	18.06	19.20
	64QAM	1	0	17.91	17.88	17.95	19.20
		1	38	17.79	17.95	17.92	19.20
		1	74	17.74	17.88	17.85	19.20
		36	0	16.99	16.97	17.01	18.20
		36	18	16.96	16.99	17.02	18.20
		36	39	16.97	17.01	17.11	18.20
		75	0	16.99	17.02	17.06	18.20
	256QAM	1	0	15.26	14.92	14.59	16.20
		1	38	14.69	15.05	14.57	16.20
		1	74	15.19	14.87	14.71	16.20
		36	0	14.99	14.95	14.98	16.20
		36	18	15.27	14.95	14.47	16.20
		36	39	15.02	14.94	14.75	16.20
		75	0	14.89	14.87	14.59	16.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	19.93	19.86	19.86	21.20
		1	50	19.84	19.93	19.86	21.20
		1	99	19.90	19.90	19.95	21.20
		50	0	18.93	18.97	18.97	20.20
		50	25	19.01	19.00	19.03	20.20
		50	50	18.97	19.01	18.95	20.20
		100	0	19.02	19.01	19.01	20.20
	16QAM	1	0	19.03	18.85	18.88	20.20
		1	50	18.88	18.94	18.94	20.20
		1	99	19.01	18.95	19.07	20.20
		50	0	17.95	17.97	17.97	19.20

		50	25	18.01	18.03	18.01	19.20
		50	50	18.01	18.01	18.00	19.20
		100	0	18.03	18.01	18.04	19.20
	64QAM	1	0	17.97	18.03	18.02	19.20
		1	50	18.02	18.00	17.86	19.20
		1	99	18.06	17.93	18.20	19.20
		50	0	16.93	16.98	17.00	18.20
		50	25	17.03	17.03	17.08	18.20
		50	50	17.02	17.03	17.03	18.20
		100	0	17.05	17.02	17.07	18.20
		256QAM	1	0	14.92	15.08	14.84
	1		50	14.91	14.79	14.91	16.20
	1		99	14.91	15.01	14.97	16.20
	50		0	15.27	15.07	15.05	16.20
	50		25	14.75	15.25	14.95	16.20
50	50		14.96	15.12	15.00	16.20	
100	0		15.21	14.87	14.93	16.20	
LTE Band 38							
Hotspot on--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	16.00	15.85	15.90	16.70
		1	13	16.02	15.94	15.98	16.70
		1	24	15.92	15.87	15.97	16.70
		12	0	16.03	15.90	16.01	16.70
		12	6	15.97	15.93	16.06	16.70
		12	13	15.95	15.90	16.03	16.70
		25	0	15.99	15.88	16.03	16.70
	16QAM	1	0	15.99	15.85	16.07	16.70
		1	13	16.11	15.97	16.00	16.70
		1	24	15.93	15.96	15.95	16.70
		12	0	15.96	15.89	15.94	16.70
		12	6	16.01	15.91	16.06	16.70
		12	13	15.96	15.86	16.04	16.70
		25	0	16.02	15.87	15.98	16.70
	64QAM	1	0	15.89	15.74	15.97	16.70
		1	13	15.91	15.82	16.07	16.70
		1	24	15.90	15.91	16.01	16.70
		12	0	15.96	15.78	16.00	16.70
		12	6	15.99	16.01	16.03	16.70
		12	13	15.93	15.89	16.07	16.70
		25	0	15.96	15.94	15.98	16.70
	256QAM	1	0	15.08	15.06	14.76	16.20

		1	13	15.05	14.85	14.93	16.20
		1	24	15.05	14.97	14.89	16.20
		12	0	15.19	15.21	15.07	16.20
		12	6	14.85	15.39	15.03	16.20
		12	13	14.98	15.10	15.12	16.20
		25	0	15.23	14.99	15.03	16.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	15.89	15.94	16.00	16.70
		1	25	15.88	15.94	16.02	16.70
		1	49	15.84	15.95	16.16	16.70
		25	0	15.96	15.91	15.97	16.70
		25	13	15.98	15.94	16.01	16.70
		25	25	15.91	15.94	16.05	16.70
		50	0	15.96	15.91	16.00	16.70
	16QAM	1	0	16.02	15.89	16.00	16.70
		1	25	15.99	16.07	16.03	16.70
		1	49	15.87	16.01	15.98	16.70
		25	0	16.01	15.93	15.93	16.70
		25	13	15.98	15.93	16.02	16.70
		25	25	15.91	15.92	16.04	16.70
		50	0	15.96	15.92	16.02	16.70
	64QAM	1	0	15.96	15.89	15.91	16.70
		1	25	15.81	16.00	16.04	16.70
		1	49	15.91	15.78	16.03	16.70
		25	0	15.96	15.89	15.95	16.70
		25	13	15.96	15.93	16.05	16.70
		25	25	15.93	15.91	16.03	16.70
		50	0	15.96	15.92	15.97	16.70
	256QAM	1	0	14.92	14.94	14.82	16.20
		1	25	14.77	14.73	15.01	16.20
		1	49	14.95	15.07	15.01	16.20
		25	0	15.25	15.03	15.13	16.20
		25	13	14.61	15.19	14.89	16.20
		25	25	14.84	14.98	15.02	16.20
		50	0	15.01	14.81	14.99	16.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	15.79	15.85	15.69	16.70
		1	38	15.68	15.85	15.72	16.70
		1	74	15.70	15.88	15.85	16.70
		36	0	15.76	15.82	15.85	16.70
		36	18	15.81	15.83	15.88	16.70

		36	39	15.85	15.82	15.91	16.70
		75	0	15.84	15.84	15.88	16.70
	16QAM	1	0	15.92	15.87	15.66	16.70
		1	38	15.92	15.90	15.61	16.70
		1	74	15.82	15.79	15.85	16.70
		36	0	15.78	15.81	15.83	16.70
		36	18	15.85	15.80	15.88	16.70
		36	39	15.79	15.84	15.92	16.70
		75	0	15.85	15.79	15.89	16.70
		75	0	15.83	15.80	15.85	16.70
	64QAM	1	0	15.90	15.63	15.71	16.70
		1	38	15.74	15.65	15.67	16.70
		1	74	15.48	15.65	15.70	16.70
		36	0	15.76	15.78	15.78	16.70
		36	18	15.80	15.73	15.81	16.70
		36	39	15.79	15.80	15.89	16.70
		75	0	15.83	15.80	15.85	16.70
		75	0	15.35	15.03	15.09	16.20
	256QAM	1	0	14.82	15.28	14.96	16.20
		1	38	14.81	14.95	14.99	16.20
		1	74	14.89	15.07	15.01	16.20
		36	0	15.33	15.15	15.17	16.20
		36	18	14.61	15.45	15.03	16.20
		36	39	14.88	14.94	15.08	16.20
		75	0	15.35	15.03	15.09	16.20
		75	0	15.35	15.03	15.09	16.20
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	15.81	15.82	15.71	16.70
		1	50	15.71	15.87	15.69	16.70
		1	99	15.79	15.88	15.83	16.70
		50	0	15.80	15.86	15.81	16.70
		50	25	15.85	15.84	15.85	16.70
		50	50	15.87	15.85	15.84	16.70
		100	0	15.88	15.83	15.87	16.70
		100	0	15.88	15.83	15.87	16.70
	16QAM	1	0	15.86	15.81	15.70	16.70
		1	50	15.68	15.96	15.84	16.70
		1	99	15.92	15.86	15.93	16.70
		50	0	15.82	15.82	15.81	16.70
		50	25	15.84	15.85	15.86	16.70
		50	50	15.84	15.86	15.86	16.70
		100	0	15.89	15.85	15.83	16.70
		100	0	15.89	15.85	15.83	16.70
	64QAM	1	0	15.63	15.70	15.77	16.70
		1	50	15.75	15.66	15.75	16.70
		1	99	15.92	15.69	15.96	16.70
		50	0	15.80	15.78	15.76	16.70

		50	25	15.84	15.81	15.83	16.70
		50	50	15.84	15.81	15.77	16.70
		100	0	15.80	15.81	15.84	16.70
	256QAM	1	0	15.00	15.00	14.96	16.20
		1	50	14.91	14.89	15.01	16.20
		1	99	14.81	15.09	15.11	16.20
		50	0	15.33	14.97	15.15	16.20
		50	25	14.67	15.25	15.13	16.20
		50	50	15.04	15.02	14.92	16.20
		100	0	15.23	14.89	14.99	16.20
LTE Band 38							
Receiver on--Ant4				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	17.82	17.77	17.95	18.50
		1	13	17.89	17.89	17.99	18.50
		1	24	17.79	17.81	17.99	18.50
		12	0	17.89	17.81	18.02	18.50
		12	6	17.87	17.90	18.08	18.50
		12	13	17.82	17.90	18.05	18.50
		25	0	17.89	17.83	18.06	18.50
	16QAM	1	0	17.89	17.69	17.99	18.50
		1	13	17.78	17.98	18.04	18.50
		1	24	17.78	17.94	18.15	18.50
		12	0	17.83	17.80	18.08	18.50
		12	6	17.85	17.87	18.06	18.50
		12	13	17.85	17.92	18.04	18.50
		25	0	17.89	17.87	18.06	18.50
	64QAM	1	0	17.83	17.74	17.96	18.50
		1	13	17.82	17.80	18.08	18.50
		1	24	17.61	17.74	17.92	18.50
		12	0	17.88	17.85	18.11	18.50
		12	6	17.88	17.83	18.13	18.50
		12	13	17.88	17.94	18.07	18.50
		25	0	17.86	17.82	18.11	18.50
	256QAM	1	0	17.50	17.70	17.70	18.50
		1	13	17.88	17.82	17.80	18.50
		1	24	17.70	17.66	17.70	18.50
		12	0	17.68	17.88	17.86	18.50
		12	6	17.92	17.88	17.80	18.50
		12	13	17.92	17.98	17.92	18.50
		25	0	17.35	17.33	17.17	18.50
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)			Tune-up

		RB Allocation		37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	17.76	17.92	17.98	18.50
		1	25	17.79	17.97	18.05	18.50
		1	49	17.73	17.97	18.02	18.50
		25	0	17.86	17.86	17.96	18.50
		25	13	17.85	17.87	18.01	18.50
		25	25	17.79	17.94	18.10	18.50
		50	0	17.82	17.87	17.99	18.50
	16QAM	1	0	17.74	17.92	17.99	18.50
		1	25	17.74	17.94	18.11	18.50
		1	49	17.73	17.94	18.05	18.50
		25	0	17.83	17.82	17.96	18.50
		25	13	17.82	17.90	17.99	18.50
		25	25	17.85	17.98	18.07	18.50
		50	0	17.83	17.85	17.99	18.50
	64QAM	1	0	17.83	17.83	17.98	18.50
		1	25	17.86	18.08	18.06	18.50
		1	49	17.82	17.99	17.96	18.50
		25	0	17.85	17.88	17.97	18.50
		25	13	17.87	17.90	17.99	18.50
		25	25	17.83	17.97	18.08	18.50
		50	0	17.83	17.87	17.99	18.50
	256QAM	1	0	17.48	17.40	17.56	18.50
		1	25	17.78	17.74	17.84	18.50
		1	49	17.52	17.76	17.64	18.50
		25	0	17.84	17.66	17.76	18.50
		25	13	17.74	17.84	17.64	18.50
		25	25	17.84	17.78	17.80	18.50
		50	0	17.07	17.17	17.23	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	17.60	17.60	17.78	18.50
		1	38	17.60	17.69	17.77	18.50
		1	74	17.63	17.65	17.83	18.50
		36	0	17.65	17.74	17.79	18.50
		36	18	17.70	17.74	17.92	18.50
		36	39	17.70	17.85	17.90	18.50
		75	0	17.73	17.74	17.80	18.50
	16QAM	1	0	17.55	17.65	17.71	18.50
		1	38	17.56	17.85	17.89	18.50
		1	74	17.80	17.85	17.90	18.50
		36	0	17.64	17.74	17.74	18.50

		36	18	17.71	17.72	17.86	18.50
		36	39	17.70	17.80	17.92	18.50
		75	0	17.72	17.73	17.74	18.50
	64QAM	1	0	17.51	17.69	17.78	18.50
		1	38	17.60	17.76	17.83	18.50
		1	74	17.53	17.61	17.90	18.50
		36	0	17.65	17.73	17.74	18.50
		36	18	17.69	17.69	17.90	18.50
		36	39	17.71	17.77	17.90	18.50
		75	0	17.67	17.74	17.83	18.50
	256QAM	1	0	17.66	17.44	17.64	18.50
		1	38	17.70	17.64	17.86	18.50
		1	74	17.54	17.74	17.88	18.50
		36	0	17.74	17.82	17.58	18.50
		36	18	17.76	17.92	17.62	18.50
		36	39	17.78	17.72	18.04	18.50
		75	0	17.41	17.07	17.05	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	17.58	17.65	17.62	18.50
		1	50	17.60	17.71	17.72	18.50
		1	99	17.63	17.67	17.77	18.50
		50	0	17.67	17.72	17.77	18.50
		50	25	17.72	17.73	17.78	18.50
		50	50	17.70	17.83	17.92	18.50
		100	0	17.74	17.74	17.80	18.50
	16QAM	1	0	17.67	17.63	17.73	18.50
		1	50	17.65	17.76	17.83	18.50
		1	99	17.67	17.76	17.85	18.50
		50	0	17.65	17.74	17.74	18.50
		50	25	17.72	17.74	17.79	18.50
		50	50	17.71	17.82	17.88	18.50
		100	0	17.74	17.72	17.79	18.50
	64QAM	1	0	17.62	17.63	17.58	18.50
		1	50	17.58	17.72	17.74	18.50
		1	99	17.58	17.67	17.70	18.50
		50	0	17.67	17.74	17.74	18.50
		50	25	17.73	17.76	17.80	18.50
		50	50	17.70	17.85	17.90	18.50
		100	0	17.78	17.71	17.23	18.50
	256QAM	1	0	17.68	17.76	17.62	18.50
		1	50	17.82	17.74	17.82	18.50
		1	99	17.74	17.62	17.76	18.50

		50	0	17.90	17.88	17.74	18.50
		50	25	17.90	17.84	17.92	18.50
		50	50	18.02	17.88	17.86	18.50
		100	0	17.29	17.17	17.21	18.50
LTE Band 38							
Receiver off--Ant4				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	23.36	23.27	23.57	24.00
		1	13	23.38	23.36	23.68	24.00
		1	24	23.35	23.30	23.48	24.00
		12	0	22.69	22.65	22.80	23.00
		12	6	22.73	22.64	22.82	23.00
		12	13	22.69	22.72	22.81	23.00
		25	0	22.68	22.62	22.83	23.00
	16QAM	1	0	22.59	22.54	22.58	23.00
		1	13	22.66	22.78	22.79	23.00
		1	24	22.56	22.75	22.75	23.00
		12	0	21.72	21.62	21.80	22.00
		12	6	21.67	21.67	21.84	22.00
		12	13	21.64	21.71	21.79	22.00
		25	0	21.70	21.65	21.84	22.00
	64QAM	1	0	21.45	21.40	21.67	22.00
		1	13	21.51	21.60	21.71	22.00
		1	24	21.44	21.81	21.76	22.00
		12	0	20.74	20.65	20.81	21.00
		12	6	20.74	20.70	20.92	21.00
		12	13	20.67	20.74	20.83	21.00
		25	0	20.67	20.65	20.82	21.00
	256QAM	1	0	18.58	18.20	18.66	19.50
		1	13	18.48	18.58	18.48	19.50
		1	24	18.18	18.36	18.50	19.50
		12	0	18.43	18.69	18.27	19.50
		12	6	18.46	18.26	18.34	19.50
		12	13	18.53	18.31	18.23	19.50
		25	0	18.40	18.52	18.50	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	23.29	23.47	23.41	24.00
		1	25	23.26	23.45	23.48	24.00
		1	49	23.21	23.43	23.46	24.00
		25	0	22.65	22.65	22.72	23.00
		25	13	22.68	22.65	22.76	23.00

		25	25	22.63	22.74	22.84	23.00
		50	0	22.65	22.63	22.72	23.00
	16QAM	1	0	22.65	22.82	22.67	23.00
		1	25	22.68	22.72	22.81	23.00
		1	49	22.54	22.72	22.81	23.00
		25	0	21.67	21.64	21.74	22.00
		25	13	21.68	21.67	21.78	22.00
		25	25	21.65	21.74	21.81	22.00
		50	0	21.66	21.64	21.73	22.00
	64QAM	1	0	21.55	21.57	21.55	22.00
		1	25	21.53	21.75	21.68	22.00
		1	49	21.61	21.48	21.75	22.00
		25	0	20.67	20.64	20.74	21.00
		25	13	20.70	20.71	20.81	21.00
		25	25	20.71	20.77	20.85	21.00
		50	0	20.69	20.65	20.78	21.00
	256QAM	1	0	18.44	18.56	18.42	19.50
		1	25	18.48	18.80	18.32	19.50
		1	49	18.16	18.56	18.36	19.50
		25	0	18.43	18.67	18.47	19.50
		25	13	18.36	18.22	18.68	19.50
		25	25	18.67	18.41	18.59	19.50
		50	0	18.56	18.42	18.26	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	23.16	23.11	23.21	24.00
		1	38	23.08	23.17	23.25	24.00
		1	74	23.10	23.20	23.26	24.00
		36	0	22.45	22.48	22.57	23.00
		36	18	22.51	22.50	22.64	23.00
		36	39	22.45	22.58	22.71	23.00
		75	0	22.50	22.50	22.61	23.00
	16QAM	1	0	22.36	22.46	22.60	23.00
		1	38	22.40	22.61	22.50	23.00
		1	74	22.44	22.46	22.67	23.00
		36	0	21.44	21.48	21.55	22.00
		36	18	21.47	21.51	21.70	22.00
		36	39	21.51	21.59	21.73	22.00
		75	0	21.49	21.49	21.62	22.00
	64QAM	1	0	21.38	21.38	21.42	22.00
		1	38	21.40	21.40	21.62	22.00
		1	74	21.45	21.39	21.56	22.00
		36	0	20.47	20.54	20.58	21.00

		36	18	20.49	20.52	20.67	21.00
		36	39	20.46	20.58	20.67	21.00
		75	0	20.54	20.47	20.63	21.00
	256QAM	1	0	18.52	18.50	18.58	19.50
		1	38	18.54	18.72	18.54	19.50
		1	74	18.44	18.42	18.58	19.50
		36	0	18.33	18.71	18.47	19.50
		36	18	18.54	18.32	18.42	19.50
		36	39	18.47	18.49	18.37	19.50
		75	0	18.38	18.70	18.46	19.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	23.17	23.22	23.21	24.00
		1	50	23.06	23.20	23.27	24.00
		1	99	23.13	23.24	23.31	24.00
		50	0	22.48	22.51	22.52	23.00
		50	25	22.53	22.51	22.54	23.00
		50	50	22.50	22.55	22.61	23.00
		100	0	22.52	22.49	22.52	23.00
	16QAM	1	0	22.48	22.44	22.33	23.00
		1	50	22.41	22.59	22.48	23.00
		1	99	22.52	22.57	22.41	23.00
		50	0	21.44	21.52	21.52	22.00
		50	25	21.55	21.47	21.53	22.00
		50	50	21.47	21.57	21.63	22.00
		100	0	21.51	21.51	21.55	22.00
	64QAM	1	0	21.36	21.31	21.40	22.00
		1	50	21.51	21.48	21.47	22.00
		1	99	21.39	21.46	21.52	22.00
		50	0	20.44	20.51	20.51	21.00
		50	25	20.51	20.52	20.54	21.00
		50	50	20.49	20.60	20.69	21.00
		100	0	20.54	20.49	20.52	21.00
	256QAM	1	0	18.56	18.36	18.60	19.50
		1	50	18.66	18.70	18.50	19.50
		1	99	18.30	18.42	18.42	19.50
		50	0	18.33	18.59	18.31	19.50
		50	25	18.48	18.32	18.52	19.50
		50	50	18.51	18.31	18.39	19.50
		100	0	18.50	18.56	18.40	19.50
LTE Band 38							
Hotspot on--Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)			

		RB Allocation		37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	15.84	15.94	16.03	16.50
		1	13	16.00	16.00	16.03	16.50
		1	24	15.88	15.94	16.05	16.50
		12	0	15.92	15.87	16.07	16.50
		12	6	15.98	15.90	16.16	16.50
		12	13	15.92	15.98	16.10	16.50
		25	0	15.91	15.88	16.09	16.50
	16QAM	1	0	15.90	15.83	16.13	16.50
		1	13	15.88	15.98	16.19	16.50
		1	24	15.79	15.90	16.12	16.50
		12	0	15.92	15.85	16.08	16.50
		12	6	15.95	15.90	16.21	16.50
		12	13	15.86	15.98	16.11	16.50
		25	0	15.94	15.93	16.11	16.50
	64QAM	1	0	15.77	15.81	16.00	16.50
		1	13	15.91	15.82	15.99	16.50
		1	24	15.66	15.89	15.84	16.50
		12	0	15.91	15.89	16.09	16.50
		12	6	15.93	15.91	16.06	16.50
		12	13	15.91	15.96	16.04	16.50
		25	0	15.88	15.90	16.07	16.50
	256QAM	1	0	15.86	15.70	15.68	16.50
		1	13	15.77	15.69	15.85	16.50
		1	24	15.96	15.74	15.98	16.50
		12	0	15.78	15.74	15.92	16.50
		12	6	15.85	15.87	15.75	16.50
		12	13	15.89	16.11	15.97	16.50
		25	0	15.85	15.79	15.77	16.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
10MHz	QPSK	1	0	15.82	15.97	16.10	16.50
		1	25	15.81	16.04	16.17	16.50
		1	49	15.79	16.04	16.19	16.50
		25	0	15.90	15.87	15.97	16.50
		25	13	15.88	15.89	16.04	16.50
		25	25	15.88	16.00	16.10	16.50
		50	0	15.91	15.92	16.01	16.50
	16QAM	1	0	15.97	15.94	15.99	16.50
		1	25	15.90	16.07	15.97	16.50
		1	49	15.82	15.94	16.10	16.50
		25	0	15.91	15.93	16.00	16.50

		25	13	15.92	15.95	16.04	16.50
		25	25	15.88	16.02	16.14	16.50
		50	0	15.89	15.88	16.04	16.50
	64QAM	1	0	15.68	15.83	15.90	16.50
		1	25	15.77	15.97	16.16	16.50
		1	49	15.81	15.95	15.99	16.50
		25	0	15.87	15.93	16.01	16.50
		25	13	15.90	15.89	16.02	16.50
		25	25	15.85	15.96	16.12	16.50
		50	0	15.84	15.88	15.97	16.50
	256QAM	1	0	15.80	15.60	15.78	16.50
		1	25	15.59	15.67	15.77	16.50
		1	49	15.84	15.94	15.88	16.50
		25	0	15.80	15.58	15.74	16.50
		25	13	15.87	15.75	15.87	16.50
		25	25	15.93	16.05	15.85	16.50
		50	0	15.69	15.75	15.79	16.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	15.68	15.67	15.87	16.50
		1	38	15.64	15.74	15.94	16.50
		1	74	15.72	15.75	15.94	16.50
		36	0	15.73	15.79	15.84	16.50
		36	18	15.77	15.72	15.92	16.50
		36	39	15.78	15.90	15.96	16.50
		75	0	15.78	15.81	15.87	16.50
	16QAM	1	0	15.60	15.64	15.98	16.50
		1	38	15.60	15.84	15.81	16.50
		1	74	15.63	15.65	15.74	16.50
		36	0	15.69	15.79	15.89	16.50
		36	18	15.70	15.79	15.94	16.50
		36	39	15.76	15.88	15.98	16.50
		75	0	15.78	15.79	15.87	16.50
	64QAM	1	0	15.74	15.81	15.81	16.50
		1	38	15.56	15.68	15.89	16.50
		1	74	15.56	15.71	15.82	16.50
		36	0	15.64	15.73	15.78	16.50
		36	18	15.71	15.75	15.89	16.50
		36	39	15.73	15.85	15.93	16.50
		75	0	15.77	15.79	15.85	16.50
	256QAM	1	0	15.70	15.92	15.82	16.50
		1	38	15.77	15.89	15.93	16.50
		1	74	15.90	15.96	15.82	16.50

		36	0	15.60	15.72	15.64	16.50
		36	18	15.79	15.65	15.69	16.50
		36	39	16.05	16.07	15.85	16.50
		75	0	15.87	15.95	15.85	16.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	15.74	15.68	15.76	16.50
		1	50	15.63	15.74	15.79	16.50
		1	99	15.65	15.73	15.82	16.50
		50	0	15.72	15.77	15.80	16.50
		50	25	15.76	15.78	15.83	16.50
		50	50	15.78	15.90	15.99	16.50
		100	0	15.77	15.78	15.86	16.50
	16QAM	1	0	15.72	15.65	15.68	16.50
		1	50	15.59	15.71	15.88	16.50
		1	99	15.85	15.84	16.01	16.50
		50	0	15.66	15.82	15.82	16.50
		50	25	15.76	15.86	15.90	16.50
		50	50	15.77	15.87	16.01	16.50
		100	0	15.76	15.82	15.88	16.50
	64QAM	1	0	15.56	15.67	15.76	16.50
		1	50	15.52	15.53	15.79	16.50
		1	99	15.67	15.84	15.84	16.50
		50	0	15.69	15.74	15.78	16.50
		50	25	15.75	15.76	15.81	16.50
		50	50	15.79	15.88	15.95	16.50
		100	0	15.77	15.76	15.81	16.50
	256QAM	1	0	15.90	15.78	15.94	16.50
		1	50	15.91	15.77	15.83	16.50
		1	99	16.00	15.88	15.80	16.50
		50	0	15.68	15.68	15.82	16.50
		50	25	15.79	15.95	15.77	16.50
		50	50	15.93	15.83	15.97	16.50
		100	0	15.83	15.69	15.77	16.50
LTE Band 38							
Receiver on--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	19.02	19.03	18.97	19.60
		1	13	19.14	19.21	18.95	19.60
		1	24	18.99	19.02	18.99	19.60
		12	0	18.79	18.82	18.81	19.60
		12	6	18.83	18.79	18.87	19.60

		12	13	18.82	18.80	18.83	19.60
		25	0	18.80	18.80	18.81	19.60
	16QAM	1	0	18.76	18.78	18.71	19.60
		1	13	18.90	18.72	18.90	19.60
		1	24	18.87	18.79	18.86	19.60
		12	0	17.80	17.85	17.73	18.60
		12	6	17.83	17.80	17.89	18.60
		12	13	17.76	17.72	17.90	18.60
		25	0	17.79	17.77	17.86	18.60
		1	0	17.83	17.81	17.87	18.60
	64QAM	1	13	17.92	17.87	17.82	18.60
		1	24	17.76	17.85	17.86	18.60
		12	0	16.86	16.85	16.81	17.60
		12	6	16.82	16.79	16.86	17.60
		12	13	16.89	16.72	16.89	17.60
		25	0	16.86	16.77	16.84	17.60
	256QAM	1	0	14.57	14.39	14.35	15.60
		1	13	14.43	14.33	14.45	15.60
		1	24	14.65	14.47	14.63	15.60
		12	0	14.62	14.52	14.56	15.60
		12	6	14.43	14.75	14.97	15.60
		12	13	14.53	14.93	14.49	15.60
		25	0	14.53	14.71	14.59	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	18.90	18.98	18.99	19.60
		1	25	18.98	19.02	19.06	19.60
		1	49	18.96	18.99	19.08	19.60
		25	0	18.80	18.86	18.80	19.60
		25	13	18.76	18.81	18.83	19.60
		25	25	18.79	18.82	18.88	19.60
		50	0	18.79	18.81	18.85	19.60
	16QAM	1	0	18.70	18.82	18.81	19.60
		1	25	18.76	18.83	18.88	19.60
		1	49	18.86	18.88	18.86	19.60
		25	0	17.80	17.87	17.81	18.60
		25	13	17.81	17.80	17.87	18.60
		25	25	17.76	17.83	17.82	18.60
		50	0	17.74	17.79	17.85	18.60
	64QAM	1	0	17.74	17.86	17.78	18.60
		1	25	17.87	17.98	17.82	18.60
		1	49	17.17	17.78	17.89	18.60
		25	0	16.83	16.87	16.81	17.60

		25	13	16.74	16.85	16.87	17.60
		25	25	16.79	16.92	16.91	17.60
		50	0	16.79	16.81	16.29	17.60
	256QAM	1	0	14.59	14.53	14.55	15.60
		1	25	14.49	14.63	14.73	15.60
		1	49	14.47	14.55	14.63	15.60
		25	0	14.68	14.68	14.74	15.60
		25	13	14.77	14.69	14.67	15.60
		25	25	14.71	14.81	14.79	15.60
		50	0	14.65	14.67	14.65	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	18.79	18.78	18.73	19.60
		1	38	18.74	18.87	18.76	19.60
		1	74	18.79	18.87	18.81	19.60
		36	0	18.71	18.73	18.69	19.60
		36	18	18.64	18.67	18.76	19.60
		36	39	18.10	18.71	18.71	19.60
		75	0	18.67	18.65	18.72	19.60
	16QAM	1	0	18.61	18.55	18.55	19.60
		1	38	18.62	18.72	18.64	19.60
		1	74	18.71	18.74	18.56	19.60
		36	0	17.72	17.74	17.71	18.60
		36	18	17.62	17.69	17.71	18.60
		36	39	17.67	17.74	17.72	18.60
		75	0	17.67	17.70	17.72	18.60
	64QAM	1	0	17.63	17.62	17.51	18.60
		1	38	17.67	17.63	17.49	18.60
		1	74	17.67	17.63	17.61	18.60
		36	0	16.70	16.68	16.73	17.60
		36	18	16.67	16.68	16.73	17.60
		36	39	16.68	16.73	16.70	17.60
		75	0	16.68	16.69	16.74	17.60
	256QAM	1	0	14.37	14.27	14.51	15.60
		1	38	14.63	14.39	14.49	15.60
		1	74	14.47	14.31	14.33	15.60
		36	0	14.52	14.76	14.70	15.60
		36	18	14.65	14.65	14.77	15.60
		36	39	14.75	14.63	14.57	15.60
		75	0	14.49	14.75	14.49	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	18.77	18.85	18.83	19.60

		1	50	18.20	18.88	18.24	19.60	
		1	99	18.86	18.92	18.89	19.60	
		50	0	18.67	18.70	18.67	19.60	
		50	25	18.72	18.67	18.72	19.60	
		50	50	18.72	18.74	18.70	19.60	
		100	0	18.65	18.12	18.69	19.60	
		16QAM	1	0	18.58	18.62	18.55	19.60
			1	50	18.65	18.72	18.60	19.60
			1	99	18.74	18.62	18.72	19.60
			50	0	17.70	17.73	17.67	18.60
			50	25	17.74	17.69	17.76	18.60
			50	50	17.08	17.74	17.70	18.60
	64QAM	100	0	17.67	17.71	17.70	18.60	
		1	0	17.56	17.58	17.53	18.60	
		1	50	17.56	17.67	17.67	18.60	
		1	99	17.74	17.61	17.64	18.60	
		50	0	16.68	16.72	16.72	17.60	
		50	25	16.70	16.10	16.73	17.60	
		50	50	16.75	16.75	16.68	17.60	
	256QAM	100	0	16.62	16.67	16.77	17.60	
		1	0	14.33	14.55	14.61	15.60	
		1	50	14.71	14.43	14.53	15.60	
		1	99	14.41	14.39	14.41	15.60	
		50	0	14.58	14.68	14.88	15.60	
		50	25	14.83	14.69	14.71	15.60	
		50	50	14.73	14.93	14.81	15.60	
	100	0	14.85	14.59	14.59	15.60		
LTE Band 38								
Receiver off--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	19.51	19.51	19.47	20.60	
		1	13	19.59	19.65	19.63	20.60	
		1	24	19.15	19.63	19.58	20.60	
		12	0	18.87	18.10	18.60	19.60	
		12	6	18.65	18.07	18.63	19.60	
		12	13	18.36	18.27	18.83	19.60	
		25	0	18.78	18.75	18.03	19.60	
	16QAM	1	0	18.74	18.62	18.80	19.60	
		1	13	18.55	18.80	18.52	19.60	
		1	24	18.08	18.71	18.85	19.60	
		12	0	17.29	17.19	17.82	18.60	
		12	6	17.85	17.83	17.72	18.60	

		12	13	17.13	17.79	17.84	18.60
		25	0	17.72	17.89	17.83	18.60
	64QAM	1	0	17.71	17.49	17.50	18.60
		1	13	17.09	17.77	17.39	18.60
		1	24	16.89	17.75	17.81	18.60
		12	0	16.02	16.60	16.66	17.60
		12	6	16.94	16.59	16.76	17.60
		12	13	16.06	16.75	16.79	17.60
		25	0	16.17	16.61	16.23	17.60
		1	0	14.47	14.73	14.59	15.60
	256QAM	1	13	14.73	14.79	14.59	15.60
		1	24	14.55	14.51	14.63	15.60
		12	0	14.56	14.68	14.74	15.60
		12	6	14.73	14.75	14.39	15.60
		12	13	14.69	14.83	14.97	15.60
		25	0	14.81	14.59	14.47	15.60
		1	0	14.47	14.73	14.59	15.60
		1	13	14.73	14.79	14.59	15.60
		1	24	14.55	14.51	14.63	15.60
		12	0	14.56	14.68	14.74	15.60
		12	6	14.73	14.75	14.39	15.60
		12	13	14.69	14.83	14.97	15.60
		25	0	14.81	14.59	14.47	15.60
		1	0	14.47	14.73	14.59	15.60
		1	13	14.73	14.79	14.59	15.60
		1	24	14.55	14.51	14.63	15.60
		12	0	14.56	14.68	14.74	15.60
		12	6	14.73	14.75	14.39	15.60
		12	13	14.69	14.83	14.97	15.60
		25	0	14.81	14.59	14.47	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	19.37	19.53	19.47	20.60
		1	25	19.69	19.61	19.81	20.60
		1	49	19.21	19.67	19.84	20.60
		25	0	18.63	18.10	18.94	19.60
		25	13	18.83	18.17	18.99	19.60
		25	25	18.38	18.25	18.93	19.60
		50	0	18.54	18.87	18.31	19.60
		1	0	18.46	18.48	18.60	19.60
	16QAM	1	25	18.37	18.56	18.54	19.60
		1	49	18.28	19.01	18.85	19.60
		25	0	17.37	17.21	17.76	18.60
		25	13	17.89	17.89	17.72	18.60
		25	25	17.35	18.01	17.96	18.60
		50	0	17.88	17.61	17.97	18.60
		1	0	17.53	17.71	17.64	18.60
		1	25	17.07	17.95	17.47	18.60
	64QAM	1	49	16.99	17.69	17.85	18.60
		25	0	16.38	16.64	16.70	17.60
		25	13	16.98	16.99	16.70	17.60
		25	25	16.28	16.77	16.87	17.60
		50	0	16.21	16.77	16.41	17.60
		1	0	14.23	14.57	14.45	15.60
		1	25	14.89	14.79	14.77	15.60
		1	49	14.75	14.33	14.61	15.60
		25	0	14.52	14.70	14.52	15.60

		25	13	14.67	14.79	14.69	15.60
		25	25	14.55	15.01	14.97	15.60
		50	0	14.85	14.51	14.53	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	19.47	19.69	19.57	20.60
		1	38	19.63	19.83	19.69	20.60
		1	74	19.29	19.77	19.90	20.60
		36	0	18.73	18.24	18.72	19.60
		36	18	18.71	18.29	18.97	19.60
		36	39	18.44	18.11	18.85	19.60
		75	0	18.86	18.87	18.33	19.60
	16QAM	1	0	18.60	18.54	18.64	19.60
		1	38	18.49	18.68	18.64	19.60
		1	74	18.30	18.75	18.97	19.60
		36	0	17.31	17.21	17.72	18.60
		36	18	17.81	17.77	17.70	18.60
		36	39	17.27	17.87	17.92	18.60
		75	0	17.82	17.67	17.75	18.60
	64QAM	1	0	17.79	17.63	17.52	18.60
		1	38	17.09	17.63	17.31	18.60
		1	74	17.13	17.71	17.87	18.60
		36	0	16.40	16.78	16.60	17.60
		36	18	16.98	16.83	16.80	17.60
		36	39	16.40	16.81	16.69	17.60
		75	0	16.13	16.71	16.17	17.60
	256QAM	1	0	14.31	14.59	14.63	15.60
		1	38	14.83	14.63	14.71	15.60
		1	74	14.55	14.37	14.55	15.60
		36	0	14.68	14.52	14.62	15.60
		36	18	14.77	14.73	14.57	15.60
		36	39	14.61	14.99	14.83	15.60
		75	0	14.89	14.71	14.61	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	19.47	19.67	19.65	20.60
		1	50	19.69	19.69	19.61	20.60
		1	99	19.17	19.67	19.72	20.60
		50	0	18.79	18.22	18.76	19.60
		50	25	18.83	18.17	18.79	19.60
		50	50	18.52	18.21	18.77	19.60
		100	0	18.72	18.77	18.23	19.60
	16QAM	1	0	18.64	18.62	18.74	19.60

		1	50	18.49	18.74	18.64	19.60
		1	99	18.28	18.79	18.81	19.60
		50	0	17.19	17.17	17.72	18.60
		50	25	17.83	17.73	17.80	18.60
		50	50	17.17	17.83	17.76	18.60
		100	0	17.74	17.79	17.77	18.60
	64QAM	1	0	17.65	17.63	17.60	18.60
		1	50	17.17	17.73	17.31	18.60
		1	99	17.01	17.67	17.83	18.60
		50	0	16.22	16.76	16.72	17.60
		50	25	16.84	16.79	16.82	17.60
		50	50	16.24	16.83	16.79	17.60
		100	0	16.15	16.79	16.25	17.60
	256QAM	1	0	14.41	14.65	14.59	15.60
		1	50	14.75	14.71	14.59	15.60
		1	99	14.63	14.47	14.53	15.60
		50	0	14.66	14.62	14.70	15.60
		50	25	14.83	14.69	14.59	15.60
		50	50	14.63	14.91	14.87	15.60
		100	0	14.83	14.57	14.57	15.60

LTE Band 38

Hotspot on--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	15.60	15.66	15.69	16.10
		1	13	15.70	15.77	15.73	16.10
		1	24	15.67	15.69	15.75	16.10
		12	0	15.74	15.77	15.79	16.10
		12	6	15.76	15.74	15.80	16.10
		12	13	15.74	15.71	15.80	16.10
		25	0	15.70	15.71	15.75	16.10
	16QAM	1	0	15.63	15.79	15.88	16.10
		1	13	15.87	15.89	15.78	16.10
		1	24	15.69	15.81	15.68	16.10
		12	0	15.73	15.71	15.73	16.10
		12	6	15.69	15.75	15.73	16.10
		12	13	15.60	15.66	15.76	16.10
		25	0	15.74	15.72	15.76	16.10
	64QAM	1	0	15.49	15.58	15.56	16.10
		1	13	15.58	15.76	15.80	16.10
		1	24	15.55	15.71	15.68	16.10
		12	0	15.68	15.77	15.69	16.10
		12	6	15.75	15.77	15.79	16.10

		12	13	15.78	15.70	15.79	16.10
		25	0	15.70	15.74	15.77	16.10
	256QAM	1	0	14.31	14.59	14.59	15.60
		1	13	14.81	14.89	14.63	15.60
		1	24	14.53	14.45	14.47	15.60
		12	0	14.92	14.56	14.76	15.60
		12	6	14.93	14.59	14.41	15.60
		12	13	14.63	15.09	14.89	15.60
		25	0	14.91	14.55	14.85	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	15.66	15.77	15.77	16.10
		1	25	15.71	15.84	15.79	16.10
		1	49	15.68	15.92	15.83	16.10
		25	0	15.72	15.76	15.76	16.10
		25	13	15.71	15.78	15.76	16.10
		25	25	15.71	15.76	15.77	16.10
		50	0	15.68	15.71	15.77	16.10
	16QAM	1	0	15.61	15.78	15.80	16.10
		1	25	15.78	15.81	15.81	16.10
		1	49	15.81	15.79	15.82	16.10
		25	0	15.73	15.76	15.77	16.10
		25	13	15.63	15.71	15.79	16.10
		25	25	15.65	15.75	15.79	16.10
		50	0	15.62	15.66	15.74	16.10
	64QAM	1	0	15.67	15.83	15.73	16.10
		1	25	15.80	15.60	15.72	16.10
		1	49	15.64	15.71	15.79	16.10
		25	0	15.72	15.75	15.77	16.10
		25	13	15.72	15.71	15.81	16.10
		25	25	15.67	15.75	15.80	16.10
		50	0	15.67	15.72	15.75	16.10
	256QAM	1	0	14.47	14.47	14.53	15.60
		1	25	14.69	14.77	14.39	15.60
		1	49	14.39	14.45	14.53	15.60
		25	0	14.72	14.56	14.82	15.60
		25	13	14.87	14.65	14.41	15.60
		25	25	14.59	14.75	14.77	15.60
		50	0	15.01	14.33	14.73	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	15.48	15.50	15.43	16.10
		1	38	15.51	15.56	15.50	16.10

		1	74	15.62	15.63	15.56	16.10
		36	0	15.61	15.61	15.61	16.10
		36	18	15.56	15.59	15.64	16.10
		36	39	15.60	15.64	15.61	16.10
		75	0	15.56	15.57	15.63	16.10
	16QAM	1	0	15.57	15.53	15.44	16.10
		1	38	15.51	15.61	15.64	16.10
		1	74	15.43	15.69	15.52	16.10
		36	0	15.57	15.63	15.55	16.10
		36	18	15.52	15.60	15.65	16.10
		36	39	15.60	15.63	15.62	16.10
		75	0	15.55	15.62	15.62	16.10
	64QAM	1	0	15.51	15.24	15.53	16.10
		1	38	15.55	15.45	15.47	16.10
		1	74	15.63	15.74	15.64	16.10
		36	0	15.58	15.58	15.64	16.10
		36	18	15.50	15.57	15.62	16.10
		36	39	15.54	15.63	15.56	16.10
		75	0	15.52	15.58	15.57	16.10
	256QAM	1	0	14.63	14.65	14.79	15.60
		1	38	14.77	14.95	14.55	15.60
		1	74	14.67	14.35	14.71	15.60
		36	0	14.90	14.80	14.96	15.60
		36	18	14.75	14.77	14.35	15.60
		36	39	14.55	15.11	15.03	15.60
		75	0	14.93	14.63	14.53	15.60
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	15.48	15.49	15.69	16.10
		1	50	15.52	15.55	15.59	16.10
		1	99	15.62	15.52	15.73	16.10
		50	0	15.61	15.62	15.60	16.10
		50	25	15.65	15.60	15.65	16.10
		50	50	15.62	15.68	15.64	16.10
		100	0	15.55	15.66	15.67	16.10
	16QAM	1	0	15.60	15.47	15.61	16.10
		1	50	15.66	15.63	15.51	16.10
		1	99	15.66	15.48	15.66	16.10
		50	0	15.56	15.65	15.61	16.10
		50	25	15.65	15.63	15.62	16.10
		50	50	15.60	15.63	15.63	16.10
		100	0	15.59	15.55	15.64	16.10
	64QAM	1	0	15.41	15.54	15.58	16.10

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		1	50	15.37	15.49	15.55	16.10
		1	99	15.83	15.41	15.53	16.10
		50	0	15.53	15.63	15.53	16.10
		50	25	15.61	15.56	15.62	16.10
		50	50	15.57	15.61	15.59	16.10
		100	0	15.47	15.54	15.60	16.10
	256QAM	1	0	14.35	14.51	14.75	15.60
		1	50	14.85	14.97	14.45	15.60
		1	99	14.55	14.47	14.63	15.60
		50	0	14.72	14.68	14.88	15.60
		50	25	14.93	14.63	14.53	15.60
		50	50	14.47	15.05	14.91	15.60
		100	0	14.89	14.39	14.61	15.60

LTE Band 41									
Receiver on& Receiver off--Ant0				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	22.85	23.57	22.68	22.85	22.65	24.00
		1	13	23.07	23.60	22.76	22.92	22.82	24.00
		1	24	23.04	23.61	22.57	22.85	22.63	24.00
		12	0	21.85	22.58	21.59	21.78	21.72	23.00
		12	6	21.94	22.61	21.68	21.79	21.78	23.00
		12	13	21.96	22.51	21.62	21.72	21.75	23.00
		25	0	21.92	22.59	21.65	21.76	21.72	23.00
	16QAM	1	0	22.06	22.80	21.88	22.04	21.91	23.00
		1	13	22.34	22.89	21.94	22.04	21.92	23.00
		1	24	22.36	22.90	21.85	22.10	21.99	23.00
		12	0	20.86	21.57	20.61	20.81	20.79	22.00
		12	6	21.04	21.66	20.72	20.85	20.83	22.00
		12	13	21.06	21.58	20.61	20.65	20.78	22.00
		25	0	20.95	21.62	20.67	20.83	20.74	22.00
	64QAM	1	0	20.92	21.77	20.79	20.87	20.80	22.00
		1	13	21.24	21.78	20.79	21.08	20.90	22.00
		1	24	21.10	21.72	20.74	21.03	20.92	22.00
		12	0	19.90	20.61	19.65	19.78	19.74	21.00
		12	6	20.06	20.74	19.83	19.90	19.85	21.00
		12	13	20.02	20.58	19.72	19.73	19.83	21.00
		25	0	19.96	20.60	19.73	19.79	19.79	21.00
	256QAM	1	0	17.69	18.55	17.59	17.64	17.78	19.00
		1	13	17.87	18.44	17.46	17.70	17.64	19.00
		1	24	17.85	18.35	17.48	17.77	17.77	19.00
		12	0	17.90	18.37	17.61	17.75	17.73	19.00

		12	6	17.93	18.39	17.49	17.66	17.94	19.00
		12	13	17.87	18.34	17.70	17.64	17.80	19.00
		25	0	17.91	18.31	17.50	17.77	17.69	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	22.89	23.60	22.78	22.79	22.88	24.00
		1	25	23.12	23.59	22.76	22.93	22.77	24.00
		1	49	23.11	23.45	22.66	22.99	22.70	24.00
		25	0	21.96	22.57	21.63	21.76	21.82	23.00
		25	13	21.99	22.62	21.72	21.78	21.82	23.00
		25	25	22.03	22.50	21.62	21.75	21.76	23.00
		50	0	21.93	22.58	21.68	21.72	21.80	23.00
	16QAM	1	0	22.08	22.88	22.00	21.87	22.21	23.00
		1	25	22.31	22.88	21.97	22.17	22.04	23.00
		1	49	22.53	22.79	21.97	22.23	22.01	23.00
		25	0	20.99	21.58	20.65	20.83	20.90	22.00
		25	13	20.99	21.63	20.74	20.86	20.88	22.00
		25	25	21.10	21.54	20.67	20.80	20.79	22.00
		50	0	20.98	21.63	20.67	20.76	20.85	22.00
	64QAM	1	0	21.13	21.73	20.89	20.80	21.05	22.00
		1	25	21.31	21.72	20.79	21.01	20.97	22.00
		1	49	21.39	21.66	20.85	21.22	20.90	22.00
		25	0	20.02	20.60	19.71	19.79	19.92	21.00
		25	13	20.01	20.65	19.78	19.80	19.86	21.00
		25	25	20.11	20.54	19.73	19.83	19.80	21.00
		50	0	19.99	20.60	19.69	19.74	19.83	21.00
	256QAM	1	0	17.73	18.49	17.39	17.38	17.82	19.00
		1	25	17.77	18.46	17.48	17.60	17.56	19.00
		1	49	17.99	18.29	17.34	17.55	17.65	19.00
		25	0	17.96	18.21	17.55	17.55	17.67	19.00
		25	13	17.89	18.37	17.53	17.48	17.82	19.00
		25	25	17.85	18.52	17.58	17.72	17.62	19.00
		50	0	17.79	18.27	17.32	17.65	17.55	19.00
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	22.74	23.39	22.73	22.80	22.87	24.00
		1	38	23.06	23.53	22.63	22.78	22.83	24.00
		1	74	23.19	23.41	22.60	23.03	22.81	24.00
		36	0	21.84	22.42	21.55	21.64	21.90	23.00
		36	18	21.92	22.44	21.56	21.66	21.75	23.00
		36	39	22.02	22.33	21.51	21.68	21.66	23.00
		75	0	21.94	22.44	21.56	21.68	21.81	23.00
	16QAM	1	0	21.93	22.55	21.73	21.88	22.06	23.00

		1	38	22.17	22.62	21.76	21.79	21.97	23.00
		1	74	22.28	22.64	21.67	22.09	22.00	23.00
		36	0	20.76	21.49	20.57	20.64	20.90	22.00
		36	18	20.92	21.42	20.56	20.67	20.81	22.00
		36	39	21.02	21.40	20.51	20.69	20.67	22.00
		75	0	20.90	21.47	20.65	20.72	20.81	22.00
		1	0	20.82	21.58	20.86	20.81	21.03	22.00
	64QAM	1	38	21.07	21.49	20.67	20.76	20.79	22.00
		1	74	21.17	21.63	20.56	21.19	20.89	22.00
		36	0	19.86	20.45	19.58	19.69	19.90	21.00
		36	18	19.94	20.47	19.57	19.76	19.79	21.00
		36	39	20.04	20.38	19.53	19.69	19.67	21.00
		75	0	19.92	20.46	19.58	19.70	19.80	21.00
		1	0	18.01	18.37	17.35	17.66	17.62	19.00
	256QAM	1	38	18.07	18.56	17.64	17.74	17.84	19.00
		1	74	18.01	18.47	17.48	17.45	17.67	19.00
		36	0	17.84	18.23	17.51	17.67	17.75	19.00
		36	18	17.77	18.53	17.45	17.64	17.70	19.00
		36	39	18.05	18.58	17.42	17.58	17.94	19.00
		75	0	18.07	18.23	17.50	17.77	17.69	19.00
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	22.84	23.57	22.85	22.82	22.95	24.00
		1	50	23.15	23.52	22.71	22.76	22.90	24.00
		1	99	23.31	22.93	22.69	23.00	22.69	24.00
		50	0	21.85	22.52	21.63	21.60	21.85	23.00
		50	25	21.99	22.47	21.63	21.70	21.87	23.00
		50	50	22.03	22.33	21.56	21.71	21.70	23.00
		100	0	21.97	22.43	21.62	21.68	21.80	23.00
	16QAM	1	0	21.88	22.63	21.80	21.89	22.11	23.00
		1	50	22.18	22.64	21.66	22.07	21.90	23.00
		1	99	22.42	22.34	21.81	22.03	21.84	23.00
		50	0	20.89	21.55	20.64	20.64	20.90	22.00
		50	25	20.99	21.52	20.63	20.69	20.88	22.00
		50	50	21.08	21.39	20.58	20.67	20.74	22.00
		100	0	21.04	21.44	20.64	20.71	20.83	22.00
	64QAM	1	0	20.87	21.61	20.89	20.76	20.99	22.00
		1	50	21.12	21.54	20.71	20.79	20.90	22.00
		1	99	21.15	21.30	20.80	20.92	20.83	22.00
		50	0	19.89	20.53	19.63	19.64	19.90	21.00
		50	25	19.97	20.52	19.64	19.72	19.82	21.00
		50	50	20.03	20.37	19.58	19.73	19.73	21.00
		100	0	20.02	20.47	19.65	19.73	19.83	21.00

	256QAM	1	0	17.81	18.33	17.61	17.62	17.94	19.00
		1	50	17.79	18.34	17.66	17.74	17.62	19.00
		1	99	18.07	18.35	17.38	17.51	17.79	19.00
		50	0	18.08	18.53	17.61	17.69	17.75	19.00
		50	25	17.75	18.57	17.41	17.72	17.80	19.00
		50	50	18.03	18.30	17.58	17.78	17.74	19.00
		100	0	18.07	18.21	17.42	17.71	17.55	19.00
LTE Band 41									
Hotspot on--Ant0				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	21.75	22.30	21.73	21.86	21.85	22.50
		1	13	21.96	22.06	21.50	21.56	21.84	22.50
		1	24	22.11	22.23	21.70	21.98	21.75	22.50
		12	0	21.80	22.21	21.53	21.71	21.67	22.50
		12	6	21.89	22.27	21.62	21.69	21.72	22.50
		12	13	21.90	22.15	21.56	21.65	21.65	22.50
		25	0	21.86	22.22	21.57	21.72	21.67	22.50
	16QAM	1	0	22.02	21.90	21.92	21.80	20.82	22.50
		1	13	22.24	21.86	21.92	22.05	20.76	22.50
		1	24	22.30	21.99	21.62	22.01	21.77	22.50
		12	0	20.78	21.56	20.58	20.71	20.76	22.00
		12	6	20.99	21.64	20.61	20.73	20.76	22.00
		12	13	20.96	21.52	20.65	20.69	20.70	22.00
		25	0	20.90	21.55	20.63	20.74	20.70	22.00
	64QAM	1	0	20.97	21.60	20.83	20.94	20.82	22.00
		1	13	21.08	21.81	20.69	21.04	21.02	22.00
		1	24	21.13	21.55	20.56	20.89	20.74	22.00
		12	0	19.86	20.65	19.55	19.72	19.74	21.00
		12	6	19.95	20.62	19.67	19.83	19.76	21.00
		12	13	20.05	20.49	19.57	19.73	19.71	21.00
		25	0	19.89	20.57	19.64	19.73	19.70	21.00
	256QAM	1	0	18.10	18.48	17.77	17.70	18.13	19.00
		1	13	18.10	18.77	17.82	17.77	18.07	19.00
		1	24	18.01	18.38	17.93	17.85	17.81	19.00
		12	0	18.14	18.51	18.07	17.77	17.92	19.00
		12	6	18.12	18.33	17.76	17.95	17.87	19.00
		12	13	18.11	18.42	17.97	17.95	17.65	19.00
		25	0	18.18	18.73	17.65	17.67	17.74	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	21.67	22.26	21.77	21.92	21.97	22.50
		1	25	21.88	21.90	21.44	21.82	21.68	22.50

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		1	49	22.27	22.31	21.50	21.70	21.89	22.50
		25	0	21.88	22.21	21.56	21.69	21.78	22.50
		25	13	21.92	22.24	21.62	21.67	21.74	22.50
		25	25	21.97	22.13	21.53	21.68	21.70	22.50
		50	0	21.88	22.01	21.61	21.66	21.75	22.50
	16QAM	1	0	22.09	22.33	21.95	21.82	22.22	22.50
		1	25	22.26	22.06	21.90	22.11	21.90	22.50
		1	49	22.31	21.96	21.95	22.05	21.92	22.50
		25	0	20.90	21.49	20.61	20.74	20.78	22.00
		25	13	20.96	21.54	20.64	20.74	20.77	22.00
		25	25	20.99	21.48	20.54	20.71	20.74	22.00
		50	0	20.87	21.52	20.64	20.70	20.78	22.00
	64QAM	1	0	20.92	21.71	20.87	20.77	20.98	22.00
		1	25	21.20	21.73	20.80	20.97	20.92	22.00
		1	49	21.21	21.60	20.74	21.13	20.81	22.00
		25	0	19.96	20.54	19.62	19.72	19.83	21.00
		25	13	19.92	20.57	19.67	19.69	19.77	21.00
		25	25	20.02	20.49	19.61	19.71	19.74	21.00
		50	0	19.97	20.56	19.65	19.67	19.78	21.00
	256QAM	1	0	18.08	18.64	17.75	17.56	18.11	19.00
		1	25	17.92	18.53	17.74	17.87	18.07	19.00
		1	49	17.87	18.08	17.73	18.05	17.99	19.00
		25	0	18.02	18.23	18.01	17.99	18.04	19.00
		25	13	18.14	18.33	17.66	17.87	18.11	19.00
		25	25	17.89	18.54	17.67	17.93	17.99	19.00
		50	0	18.18	18.59	17.75	18.03	18.14	19.00
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)					Tune-up
		Allocation		39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	21.83	22.24	21.61	21.86	21.83	22.50
		1	38	22.06	22.16	21.48	21.60	21.94	22.50
		1	74	22.19	22.07	21.68	21.88	21.73	22.50
		36	0	21.77	22.03	21.48	21.55	21.84	22.50
		36	18	21.82	22.08	21.49	21.58	21.69	22.50
		36	39	21.92	21.97	21.44	21.59	21.60	22.50
		75	0	21.81	22.08	21.52	21.60	21.74	22.50
	16QAM	1	0	21.86	22.35	21.84	21.81	21.99	22.50
		1	38	22.11	22.20	21.55	21.90	21.87	22.50
		1	74	22.26	22.27	21.72	22.00	21.73	22.50
		36	0	20.74	21.40	20.52	20.58	20.86	22.00
		36	18	20.87	21.42	20.55	20.62	20.77	22.00
		36	39	20.98	21.33	20.40	20.62	20.63	22.00
		75	0	20.82	21.39	20.51	20.64	20.73	22.00
	64QAM	1	0	20.83	21.60	20.67	20.79	20.86	22.00

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		1	38	20.96	21.48	20.73	20.83	20.87	22.00
		1	74	21.26	21.48	20.54	20.96	20.76	22.00
		36	0	19.80	20.46	19.53	19.58	19.85	21.00
		36	18	19.86	20.40	19.49	19.63	19.76	21.00
		36	39	20.02	20.29	19.45	19.64	19.63	21.00
		75	0	19.90	20.40	19.58	19.65	19.72	21.00
		1	0	18.20	18.68	17.97	17.54	18.27	19.00
	256QAM	1	38	18.12	18.77	17.78	17.75	18.15	19.00
		1	74	18.09	18.08	17.73	17.95	17.89	19.00
		36	0	18.04	18.23	17.77	17.99	17.86	19.00
		36	18	18.16	18.55	17.80	17.89	18.11	19.00
		36	39	17.91	18.60	18.07	17.79	17.71	19.00
		75	0	18.16	18.71	17.87	17.81	18.02	19.00
		Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
39750/2506	40185/2549.5					40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	21.73	22.22	21.63	21.74	21.79	22.50
		1	50	22.06	22.06	21.58	21.66	21.86	22.50
		1	99	22.21	22.11	21.66	21.86	21.71	22.50
		50	0	21.82	22.17	21.53	21.57	21.83	22.50
		50	25	21.92	22.11	21.51	21.61	21.78	22.50
		50	50	21.96	21.97	21.47	21.61	21.64	22.50
		100	0	21.89	22.09	21.55	21.60	21.75	22.50
	16QAM	1	0	21.80	22.26	21.69	21.70	22.07	22.50
		1	50	22.16	22.25	21.69	21.84	22.01	22.50
		1	99	22.31	22.09	21.74	22.00	21.87	22.50
		50	0	20.83	21.49	20.56	20.53	20.86	22.00
		50	25	20.96	21.42	20.54	20.67	20.83	22.00
		50	50	20.96	21.29	20.51	20.65	20.67	22.00
		100	0	20.92	21.42	20.55	20.67	20.79	22.00
	64QAM	1	0	20.94	21.59	20.71	20.78	20.92	22.00
		1	50	21.15	21.37	20.62	20.82	20.83	22.00
		1	99	21.24	21.24	20.71	20.96	20.70	22.00
		50	0	19.86	20.49	19.57	19.58	19.83	21.00
		50	25	19.92	20.44	19.52	19.67	19.85	21.00
		50	50	19.99	20.31	19.53	19.67	19.67	21.00
		100	0	19.92	20.42	19.57	19.65	19.76	21.00
	256QAM	1	0	18.06	18.64	17.97	17.64	18.17	19.00
		1	50	17.92	18.57	17.64	17.85	18.09	19.00
		1	99	18.19	18.18	17.85	17.85	17.87	19.00
		50	0	18.12	18.53	17.93	17.97	17.86	19.00
		50	25	18.20	18.51	17.78	17.95	18.05	19.00
		50	50	17.99	18.58	17.77	17.89	17.81	19.00
		100	0	18.20	18.63	17.65	17.85	17.92	19.00

LTE Band 41									
Receiver on--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	19.62	20.22	19.54	19.97	19.71	20.70
		1	13	19.74	20.24	19.64	20.12	19.80	20.70
		1	24	19.74	20.11	19.58	19.99	19.71	20.70
		12	0	19.74	20.20	19.49	20.01	19.76	20.70
		12	6	19.79	20.14	19.58	20.01	19.76	20.70
		12	13	19.82	20.09	19.57	19.94	19.70	20.70
		25	0	19.78	20.09	19.58	20.01	19.71	20.70
	16QAM	1	0	19.99	20.48	19.88	20.23	19.90	20.70
		1	13	20.08	20.50	19.86	20.33	19.95	20.70
		1	24	20.15	20.39	19.80	20.30	19.99	20.70
		12	0	19.80	20.31	19.54	20.05	19.80	20.70
		12	6	19.88	20.25	19.64	20.06	19.79	20.70
		12	13	19.77	20.16	19.64	19.97	19.74	20.70
		25	0	19.74	20.13	19.58	19.98	19.73	20.70
	64QAM	1	0	19.89	20.38	19.63	20.21	19.89	20.70
		1	13	19.87	20.41	19.73	20.31	19.81	20.70
		1	24	20.06	20.29	19.71	20.15	19.88	20.70
		12	0	18.85	19.32	18.62	19.10	18.83	20.00
		12	6	18.94	19.30	18.77	19.13	18.80	20.00
		12	13	18.83	19.23	18.67	19.08	18.83	20.00
		25	0	18.87	19.21	18.65	19.11	18.83	20.00
	256QAM	1	0	17.04	17.69	16.63	17.14	16.76	18.00
		1	13	17.05	17.54	16.79	17.02	16.89	18.00
		1	24	17.22	17.30	16.69	17.20	16.94	18.00
		12	0	17.16	17.60	16.78	16.98	16.87	18.00
		12	6	17.06	17.63	16.71	17.06	16.86	18.00
		12	13	17.15	17.58	16.73	17.16	16.95	18.00
		25	0	17.10	17.36	16.77	17.24	16.96	18.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	19.82	20.23	19.57	19.97	19.74	20.70
		1	25	19.92	20.09	19.63	20.08	19.83	20.70
		1	49	20.05	20.03	19.60	20.08	19.71	20.70
		25	0	19.80	20.19	19.49	19.99	19.77	20.70
		25	13	19.79	20.12	19.60	19.96	19.78	20.70
		25	25	19.85	20.03	19.57	19.98	19.71	20.70
		50	0	19.80	20.09	19.58	19.92	19.78	20.70
	16QAM	1	0	20.03	20.57	19.81	20.37	20.05	20.70
		1	25	20.05	20.48	19.81	20.36	20.02	20.70

		1	49	20.24	20.36	19.76	20.29	20.03	20.70
		25	0	19.74	20.23	19.52	19.99	19.80	20.70
		25	13	19.76	20.13	19.63	19.92	19.83	20.70
		25	25	19.85	20.04	19.61	19.98	19.76	20.70
		50	0	19.78	20.09	19.61	19.95	19.74	20.70
	64QAM	1	0	19.89	20.50	19.71	20.17	19.92	20.70
		1	25	20.02	20.40	19.70	20.32	19.87	20.70
		1	49	20.12	20.18	19.77	20.08	19.83	20.70
		25	0	18.83	19.30	18.62	19.08	18.89	20.00
		25	13	18.88	19.56	18.72	19.06	18.90	20.00
		25	25	18.96	19.47	18.71	19.06	18.88	20.00
		50	0	18.85	19.52	18.69	19.04	18.88	20.00
	256QAM	1	0	17.02	17.59	16.55	16.96	16.66	18.00
		1	25	17.23	17.68	16.69	16.98	16.81	18.00
		1	49	17.00	17.38	16.73	17.04	16.82	18.00
		25	0	17.04	17.62	16.72	17.06	16.79	18.00
		25	13	16.90	17.55	16.39	17.14	16.68	18.00
		25	25	17.05	17.56	16.63	16.90	16.83	18.00
		50	0	17.12	17.30	16.73	16.96	16.72	18.00
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	19.67	20.36	19.54	19.72	19.78	20.70
		1	38	19.90	20.31	19.57	20.04	19.78	20.70
		1	74	20.12	20.20	19.73	20.05	19.81	20.70
		36	0	19.67	20.33	19.38	19.92	19.65	20.70
		36	18	19.74	20.22	19.48	19.83	19.71	20.70
		36	39	19.83	20.13	19.51	19.85	19.67	20.70
		75	0	19.76	20.23	19.51	19.94	19.67	20.70
	16QAM	1	0	19.78	20.47	19.58	20.01	19.99	20.70
		1	38	19.89	20.21	19.65	20.07	19.89	20.70
		1	74	20.27	19.91	19.90	20.15	19.83	20.70
		36	0	19.67	20.39	19.38	19.88	19.64	20.70
		36	18	19.76	20.24	19.48	19.85	19.71	20.70
		36	39	19.83	20.15	19.49	19.89	19.63	20.70
		75	0	19.71	20.20	19.47	19.92	19.69	20.70
	64QAM	1	0	19.60	20.29	19.40	20.08	19.83	20.70
		1	38	19.92	19.98	19.52	20.04	19.87	20.70
		1	74	20.06	20.17	19.74	20.11	19.79	20.70
		36	0	18.74	19.49	18.48	18.96	18.76	20.00
		36	18	18.83	19.33	18.55	18.96	18.77	20.00
		36	39	18.97	19.24	18.57	18.99	18.81	20.00
		75	0	18.79	19.35	18.58	19.05	18.81	20.00
	256QAM	1	0	17.04	17.45	16.71	17.00	17.06	18.00

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		1	38	17.27	17.48	16.53	17.12	16.83	18.00
		1	74	17.26	17.16	16.67	17.28	17.04	18.00
		36	0	17.22	17.42	16.82	16.88	16.77	18.00
		36	18	17.08	17.59	16.79	17.12	16.90	18.00
		36	39	17.05	17.78	16.53	17.08	16.81	18.00
		75	0	17.12	17.36	16.69	17.24	16.82	18.00
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	19.69	20.20	19.57	19.92	19.92	20.70
		1	50	20.08	20.12	19.63	19.99	19.71	20.70
		1	99	20.06	20.05	19.74	20.08	19.78	20.70
		50	0	19.72	20.40	19.40	19.85	19.65	20.70
		50	25	19.90	20.32	19.52	19.87	19.71	20.70
		50	50	20.02	20.07	19.49	19.88	19.65	20.70
		100	0	19.85	20.29	19.48	19.83	19.65	20.70
	16QAM	1	0	19.63	20.48	19.86	20.15	19.90	20.70
		1	50	20.17	20.09	19.60	20.17	19.79	20.70
		1	99	20.45	20.04	19.80	20.19	19.65	20.70
		50	0	19.72	20.46	19.40	19.89	19.64	20.70
		50	25	19.90	20.30	19.48	19.87	19.72	20.70
		50	50	19.98	20.14	19.49	19.89	19.69	20.70
		100	0	19.80	20.31	19.46	19.85	19.71	20.70
	64QAM	1	0	19.63	20.23	19.63	20.12	19.90	20.70
		1	50	20.01	20.05	19.52	19.96	19.76	20.70
		1	99	20.27	20.04	19.76	20.03	19.61	20.70
		50	0	18.82	19.53	18.49	18.96	18.74	20.00
		50	25	19.03	19.48	18.61	18.94	18.83	20.00
		50	50	19.08	19.22	18.61	19.02	18.76	20.00
		100	0	18.90	19.44	18.58	18.92	18.81	20.00
	256QAM	1	0	16.94	17.59	16.65	17.24	16.92	18.00
		1	50	17.27	17.76	16.67	17.08	16.97	18.00
		1	99	17.06	17.26	16.71	17.06	16.76	18.00
		50	0	17.06	17.66	16.64	16.92	16.93	18.00
		50	25	16.92	17.61	16.59	16.96	16.92	18.00
		50	50	17.19	17.68	16.67	17.00	16.89	18.00
		100	0	17.16	17.36	16.67	17.18	16.86	18.00
LTE Band 41									
Receiver off--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	21.27	21.94	20.99	21.45	21.23	22.20
		1	13	21.29	21.97	21.14	21.59	21.33	22.20
		1	24	21.30	21.96	21.08	21.51	21.17	22.20

		12	0	20.80	21.64	20.55	21.05	20.83	22.20
		12	6	20.86	21.59	20.73	21.12	20.82	22.20
		12	13	20.83	21.51	20.69	20.97	20.74	22.20
		25	0	20.79	21.52	20.63	21.07	20.79	22.20
	16QAM	1	0	21.05	21.90	20.89	21.17	21.05	22.20
		1	13	21.23	22.06	20.96	21.42	21.13	22.20
		1	24	21.06	21.83	20.94	21.32	20.97	22.20
		12	0	19.83	20.69	19.62	20.10	19.89	21.00
		12	6	19.92	20.65	19.67	20.15	19.86	21.00
		12	13	19.92	20.58	19.70	20.05	19.81	21.00
		25	0	19.88	20.54	19.67	20.08	19.83	21.00
	64QAM	1	0	19.95	20.79	19.79	20.12	19.92	21.00
		1	13	20.04	20.83	19.88	20.27	19.99	21.00
		1	24	20.10	20.61	19.87	20.17	19.96	21.00
		12	0	18.79	19.73	18.60	19.15	18.79	20.00
		12	6	18.86	19.58	18.71	19.10	18.85	20.00
		12	13	18.89	19.63	18.74	19.05	18.83	20.00
		25	0	18.87	19.58	18.65	19.11	18.82	20.00
	256QAM	1	0	16.91	17.51	16.42	16.89	16.85	18.00
		1	13	16.98	17.50	16.51	16.92	16.71	18.00
		1	24	17.04	17.33	16.70	17.00	16.73	18.00
		12	0	16.89	17.59	16.51	16.91	16.84	18.00
		12	6	16.87	17.49	16.44	17.07	16.91	18.00
		12	13	16.90	17.36	16.71	16.86	16.81	18.00
		25	0	17.02	17.21	16.62	17.16	16.85	18.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	21.24	22.08	21.11	21.52	21.30	22.20
		1	25	21.39	22.02	21.11	21.57	21.32	22.20
		1	49	21.47	21.85	21.17	21.55	21.21	22.20
		25	0	20.83	21.62	20.60	21.04	20.90	22.20
		25	13	20.86	21.55	20.71	21.03	20.88	22.20
		25	25	20.92	21.45	20.67	21.06	20.82	22.20
		50	0	20.82	21.49	20.67	20.99	20.85	22.20
	16QAM	1	0	20.99	22.05	21.01	21.24	21.10	22.20
		1	25	21.27	21.97	20.90	21.31	21.17	22.20
		1	49	21.37	21.73	20.95	21.36	21.05	22.20
		25	0	19.81	20.67	19.62	20.06	19.83	21.00
		25	13	19.86	20.56	19.73	20.04	19.92	21.00
		25	25	19.94	20.51	19.72	20.08	19.88	21.00
		50	0	19.85	20.55	19.73	20.02	19.88	21.00
	64QAM	1	0	19.95	20.99	19.87	20.22	20.07	21.00
		1	25	20.14	20.76	19.94	20.24	20.04	21.00

		1	49	20.38	20.65	19.86	20.27	20.07	21.00
		25	0	18.87	19.67	18.65	19.05	18.88	20.00
		25	13	18.92	19.58	18.69	19.08	18.90	20.00
		25	25	18.96	19.48	18.71	19.11	18.86	20.00
		50	0	18.85	19.56	18.69	19.02	18.87	20.00
	256QAM	1	0	16.85	17.51	16.44	17.03	16.77	18.00
		1	25	16.94	17.56	16.57	16.94	16.73	18.00
		1	49	17.08	17.09	16.58	16.96	16.73	18.00
		25	0	16.91	17.27	16.61	16.87	16.72	18.00
		25	13	16.61	17.51	16.46	16.83	16.69	18.00
		25	25	16.82	17.56	16.67	16.88	16.71	18.00
		50	0	17.12	17.33	16.64	16.92	16.63	18.00
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	21.04	21.95	21.11	21.27	21.31	22.20
		1	38	21.40	21.75	21.08	21.45	21.07	22.20
		1	74	21.57	21.68	21.11	21.63	21.26	22.20
		36	0	20.73	21.51	20.48	20.92	20.74	22.20
		36	18	20.77	21.30	20.55	20.88	20.78	22.20
		36	39	20.90	21.23	20.58	20.92	20.74	22.20
		75	0	20.81	21.32	20.57	20.94	20.78	22.20
	16QAM	1	0	20.74	21.72	20.73	21.07	21.05	22.20
		1	38	21.10	21.56	20.70	21.19	21.08	22.20
		1	74	21.17	21.52	20.83	21.32	20.92	22.20
		36	0	19.74	20.53	19.51	19.92	19.74	21.00
		36	18	19.83	20.33	19.58	19.90	19.82	21.00
		36	39	19.95	20.27	19.62	19.97	19.76	21.00
		75	0	19.83	20.35	19.57	19.99	19.77	21.00
	64QAM	1	0	19.83	20.65	19.73	20.08	19.98	21.00
		1	38	19.90	20.46	19.67	20.22	19.99	21.00
		1	74	20.13	20.30	19.83	20.07	19.92	21.00
		36	0	18.76	19.51	18.48	18.98	18.74	20.00
		36	18	18.85	19.33	18.60	18.90	18.76	20.00
		36	39	18.92	19.27	18.63	18.96	18.72	20.00
		75	0	18.83	19.33	18.60	18.99	18.80	20.00
	256QAM	1	0	16.63	17.51	16.40	16.85	16.75	18.00
		1	38	16.96	17.40	16.65	17.10	16.75	18.00
		1	74	17.26	17.25	16.58	17.16	16.73	18.00
		36	0	16.79	17.63	16.65	16.93	16.76	18.00
		36	18	16.83	17.69	16.52	16.87	16.65	18.00
		36	39	17.14	17.38	16.81	17.08	16.99	18.00
		75	0	17.20	17.37	16.74	17.20	16.71	18.00
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)					Tune-up

		RB Allocation		39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	21.24	22.08	21.02	21.48	21.42	22.20
		1	50	21.42	21.75	21.08	21.49	21.31	22.20
		1	99	21.81	21.51	21.26	21.63	21.24	22.20
		50	0	20.80	21.51	20.49	20.94	20.71	22.20
		50	25	20.98	21.40	20.58	20.89	20.77	22.20
		50	50	21.04	21.17	20.60	20.94	20.80	22.20
		100	0	20.92	21.42	20.60	20.92	20.78	22.20
	16QAM	1	0	20.81	21.80	20.74	21.17	21.11	22.20
		1	50	21.11	21.51	20.78	21.13	20.97	22.20
		1	99	21.42	21.17	20.95	21.19	20.89	22.20
		50	0	19.81	20.54	19.51	19.89	19.76	21.00
		50	25	20.01	20.46	19.58	19.95	19.78	21.00
		50	50	20.08	20.23	19.63	19.96	19.80	21.00
		100	0	19.97	20.44	19.62	19.89	19.79	21.00
	64QAM	1	0	19.69	20.74	19.82	20.03	19.97	21.00
		1	50	20.01	20.32	19.65	20.06	19.88	21.00
		1	99	20.35	20.13	19.90	20.15	19.90	21.00
		50	0	18.80	19.54	18.49	18.94	18.76	20.00
		50	25	18.97	19.45	18.58	18.95	18.80	20.00
		50	50	19.05	19.24	18.65	18.99	18.76	20.00
		100	0	18.92	19.44	18.60	18.90	18.83	20.00
	256QAM	1	0	16.85	17.65	16.52	17.03	16.71	18.00
		1	50	16.86	17.38	16.57	17.14	16.99	18.00
		1	99	17.20	17.21	16.54	16.88	16.79	18.00
		50	0	16.95	17.45	16.65	17.09	17.02	18.00
		50	25	16.79	17.63	16.42	16.85	16.93	18.00
		50	50	17.10	17.46	16.47	16.90	16.81	18.00
		100	0	17.24	17.43	16.68	17.08	16.83	18.00
LTE Band 41									
Hotspot on--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	16.90	17.24	16.68	17.15	16.93	17.70
		1	13	17.04	17.34	16.86	17.27	17.06	17.70
		1	24	17.01	17.18	16.78	17.19	16.86	17.70
		12	0	16.95	17.27	16.67	17.17	16.94	17.70
		12	6	16.92	17.25	16.79	17.17	16.95	17.70
		12	13	16.95	17.17	16.73	17.10	16.84	17.70
		25	0	16.93	17.20	16.75	17.19	16.89	17.70
	16QAM	1	0	17.10	17.58	16.91	17.49	17.11	17.70
		1	13	17.20	17.58	17.12	17.48	17.29	17.70

		1	24	17.23	17.43	16.99	17.49	17.17	17.70
		12	0	17.01	17.33	16.70	17.17	16.97	17.70
		12	6	17.04	17.31	16.80	17.22	16.94	17.70
		12	13	17.03	17.15	16.80	17.09	16.93	17.70
		25	0	16.98	17.17	16.79	17.17	16.91	17.70
	64QAM	1	0	17.17	17.45	16.87	17.39	16.99	17.70
		1	13	17.14	17.47	16.93	17.42	17.06	17.70
		1	24	17.28	17.45	16.90	17.33	16.95	17.70
		12	0	16.97	17.32	16.63	17.17	16.96	17.70
		12	6	17.05	17.25	16.77	17.21	16.94	17.70
		12	13	17.00	17.22	16.74	17.15	16.87	17.70
		25	0	16.91	17.25	16.77	17.20	16.88	17.70
	256QAM	1	0	17.02	17.38	16.71	17.40	17.34	17.70
		1	13	17.00	17.39	16.78	17.18	16.92	17.70
		1	24	17.48	16.93	16.80	17.38	16.99	17.70
		12	0	16.89	17.36	16.67	16.97	16.91	17.70
		12	6	17.17	16.99	16.79	17.02	16.84	17.70
		12	13	17.31	16.82	16.71	17.17	16.72	17.70
		25	0	16.93	17.09	16.72	17.03	16.79	17.70
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	16.97	17.36	16.79	17.19	16.93	17.70
		1	25	17.06	17.29	16.79	17.28	16.95	17.70
		1	49	17.24	17.16	16.86	17.30	16.88	17.70
		25	0	16.97	17.27	16.68	17.19	16.99	17.70
		25	13	17.01	17.24	16.78	17.15	16.99	17.70
		25	25	17.06	17.14	16.76	17.15	16.93	17.70
		50	0	16.96	17.17	16.79	17.14	16.95	17.70
	16QAM	1	0	17.13	17.33	17.08	17.48	17.14	17.70
		1	25	17.36	17.49	17.02	17.42	17.10	17.70
		1	49	17.52	17.42	17.07	17.55	17.12	17.70
		25	0	17.00	17.34	16.65	17.21	16.99	17.70
		25	13	17.00	17.18	16.76	17.15	17.00	17.70
		25	25	17.09	17.16	16.77	17.17	16.93	17.70
		50	0	16.98	17.18	16.74	17.09	16.96	17.70
	64QAM	1	0	17.13	17.58	16.89	17.32	17.24	17.70
		1	25	17.36	17.46	16.83	17.49	17.13	17.70
		1	49	17.31	17.38	17.01	17.26	17.03	17.70
		25	0	17.01	17.32	16.71	17.21	17.00	17.70
		25	13	17.01	17.16	16.81	17.15	17.01	17.70
		25	25	17.05	17.08	16.77	17.17	16.88	17.70
		50	0	16.97	17.18	16.80	17.13	16.95	17.70
	256QAM	1	0	16.88	17.34	16.53	17.22	17.26	17.70

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		1	25	16.90	17.11	16.64	17.02	17.04	17.70
		1	49	17.42	16.69	16.72	17.20	16.81	17.70
		25	0	17.03	17.32	16.69	16.87	16.93	17.70
		25	13	16.97	16.91	16.63	16.98	16.74	17.70
		25	25	17.03	16.78	16.63	16.97	16.92	17.70
		50	0	16.97	16.97	16.62	16.87	16.81	17.70
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	16.98	17.20	16.75	16.96	16.98	17.70
		1	38	17.07	17.11	16.67	17.12	16.83	17.70
		1	74	17.33	17.00	16.80	17.33	16.94	17.70
		36	0	16.86	17.15	16.52	17.06	16.82	17.70
		36	18	16.97	17.00	16.64	17.01	16.83	17.70
		36	39	17.04	16.92	16.66	17.07	16.80	17.70
		75	0	16.89	16.97	16.62	17.13	16.84	17.70
	16QAM	1	0	16.95	17.25	16.66	17.21	17.21	17.70
		1	38	17.13	17.27	16.81	17.30	17.01	17.70
		1	74	17.26	17.00	16.94	17.49	16.98	17.70
		36	0	16.90	17.14	16.56	17.07	16.78	17.70
		36	18	16.93	17.00	16.67	16.99	16.83	17.70
		36	39	17.04	16.92	16.69	17.05	16.85	17.70
		75	0	16.91	16.95	16.66	17.08	16.90	17.70
	64QAM	1	0	16.81	17.43	16.78	17.11	17.11	17.70
		1	38	17.02	17.09	16.77	17.22	17.03	17.70
		1	74	17.24	17.00	16.88	17.23	17.02	17.70
		36	0	16.87	17.14	16.58	17.06	16.80	17.70
		36	18	16.94	17.00	16.63	16.95	16.85	17.70
		36	39	17.01	16.88	16.64	17.03	16.79	17.70
		75	0	16.90	16.96	16.66	17.06	16.87	17.70
	256QAM	1	0	16.82	17.58	16.49	17.36	17.40	17.70
		1	38	17.02	17.11	16.60	17.12	16.78	17.70
		1	74	17.34	16.71	16.66	17.48	16.97	17.70
		36	0	17.07	17.24	16.47	17.21	16.85	17.70
		36	18	17.09	17.09	16.71	17.18	17.04	17.70
		36	39	17.13	16.92	16.69	17.21	16.64	17.70
		75	0	17.17	16.97	16.88	16.89	16.77	17.70
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	16.92	17.43	16.79	17.24	16.97	17.70
		1	50	17.19	17.08	16.52	17.20	16.81	17.70
		1	99	17.40	16.88	16.76	17.39	16.93	17.70
		50	0	16.96	17.27	16.56	17.06	16.82	17.70
		50	25	17.10	17.12	16.65	17.08	16.85	17.70

		50	50	17.14	16.90	16.67	17.06	16.83	17.70	
		100	0	17.03	17.12	16.65	17.05	16.88	17.70	
	16QAM	1	0	16.90	17.46	16.94	17.40	17.26	17.70	
		1	50	17.29	17.27	16.80	17.10	17.00	17.70	
		1	99	17.48	16.96	16.86	17.39	16.95	17.70	
		50	0	16.93	17.27	16.55	17.05	16.85	17.70	
		50	25	17.10	17.12	16.70	17.03	16.88	17.70	
		50	50	17.15	16.88	16.71	17.06	16.87	17.70	
		100	0	17.01	17.09	16.67	17.03	16.88	17.70	
		64QAM	1	0	16.96	17.38	16.67	17.24	17.20	17.70
	1		50	17.10	17.25	16.62	17.14	16.94	17.70	
	1		99	17.42	16.81	16.84	17.26	16.91	17.70	
	50		0	16.95	17.24	16.61	17.03	16.83	17.70	
	50		25	17.07	17.07	16.69	17.02	16.90	17.70	
	50		50	17.17	16.84	16.69	17.05	16.82	17.70	
	100		0	16.99	17.05	16.66	16.99	16.85	17.70	
	256QAM		1	0	17.10	17.26	16.63	17.18	17.12	17.70
		1	50	17.18	17.13	16.64	17.26	16.84	17.70	
		1	99	17.42	16.91	16.72	17.40	16.81	17.70	
		50	0	17.07	17.22	16.77	17.17	16.87	17.70	
		50	25	17.05	17.13	16.71	17.10	16.90	17.70	
		50	50	17.11	16.76	16.79	17.19	16.84	17.70	
		100	0	17.13	17.05	16.64	16.87	16.79	17.70	
		LTE Band 41								
	Receiver off--Ant4				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	23.95	24.55	24.01	24.22	23.83	24.90
			1	13	24.05	24.59	24.14	24.30	23.98	24.90
			1	24	24.19	24.45	24.08	24.09	23.81	24.90
12			0	23.83	24.48	23.99	24.12	23.76	24.90	
12			6	23.93	24.52	24.03	24.08	23.83	24.90	
12			13	24.02	24.37	24.01	24.01	23.75	24.90	
25			0	23.96	24.47	24.02	23.98	23.78	24.90	
16QAM			1	0	24.23	24.82	24.17	24.38	24.08	24.90
		1	13	24.25	24.79	24.42	24.48	24.14	24.90	
		1	24	24.30	24.72	24.30	24.40	24.01	24.90	
		12	0	23.05	23.64	23.18	23.27	22.93	24.30	
		12	6	23.08	23.66	23.19	23.23	22.93	24.30	
		12	13	23.13	23.53	23.18	23.12	22.89	24.30	
		25	0	23.02	23.67	23.15	23.13	22.94	24.30	
		64QAM	1	0	23.27	23.74	23.27	23.24	23.07	24.30
1			13	23.21	23.88	23.30	23.55	23.05	24.30	

		1	24	23.42	23.71	23.34	23.38	23.09	24.30
		12	0	22.05	22.67	22.18	22.26	21.92	23.30
		12	6	22.15	22.63	22.26	22.25	21.96	23.30
		12	13	22.14	22.54	22.20	22.17	22.01	23.30
		25	0	22.05	22.58	22.15	22.16	21.93	23.30
	256QAM	1	0	20.19	20.53	20.12	20.07	19.93	21.30
		1	13	20.26	20.50	20.05	20.29	19.85	21.30
		1	24	20.20	20.33	20.16	20.09	19.73	21.30
		12	0	20.15	20.36	19.95	20.09	19.84	21.30
		12	6	20.23	20.41	19.98	20.07	19.95	21.30
		12	13	20.28	20.46	20.07	20.31	20.03	21.30
		25	0	20.22	20.45	20.04	19.99	19.99	21.30
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	23.90	24.57	24.09	24.25	23.86	24.90
		1	25	24.08	24.54	24.10	24.18	23.85	24.90
		1	49	24.26	24.40	24.07	24.18	23.82	24.90
		25	0	23.93	24.47	23.97	24.14	23.79	24.90
		25	13	23.95	24.48	24.05	24.20	23.80	24.90
		25	25	24.04	24.38	24.01	24.08	23.82	24.90
		50	0	23.98	24.48	24.06	24.11	23.80	24.90
	16QAM	1	0	24.11	24.72	24.26	24.43	24.16	24.90
		1	25	24.29	24.76	24.31	24.48	24.07	24.90
		1	49	24.48	24.59	24.37	24.47	24.11	24.90
		25	0	23.03	23.60	23.11	23.26	22.90	24.30
		25	13	23.13	23.61	23.21	23.33	22.98	24.30
		25	25	23.21	23.51	23.18	23.20	22.97	24.30
		50	0	23.12	23.62	23.17	23.22	22.96	24.30
	64QAM	1	0	22.90	23.82	23.19	23.50	23.15	24.30
		1	25	23.41	23.83	23.32	23.42	23.23	24.30
		1	49	23.64	23.52	23.31	23.24	23.02	24.30
		25	0	22.04	22.62	22.08	22.26	21.95	23.30
		25	13	22.10	22.63	22.17	22.33	21.95	23.30
		25	25	22.17	22.48	22.16	22.22	21.95	23.30
		50	0	22.12	22.60	22.14	22.25	21.94	23.30
	256QAM	1	0	20.15	20.37	20.02	19.95	19.93	21.30
		1	25	20.10	20.50	19.91	20.03	19.97	21.30
		1	49	20.16	20.37	20.04	19.91	19.69	21.30
		25	0	20.23	20.38	20.03	20.13	19.92	21.30
		25	13	19.87	20.37	20.04	19.99	19.79	21.30
		25	25	20.06	20.56	19.95	20.21	19.69	21.30
		50	0	20.20	20.37	19.84	20.01	19.93	21.30
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)					Tune-up

		RB Allocation		39725/2503.5	40173/2548.3	40620/2593	41068/2637.8	41515/2682.5	
15MHz	QPSK	1	0	23.78	24.41	24.01	24.14	23.91	24.90
		1	38	24.19	24.40	23.97	24.14	23.70	24.90
		1	74	24.27	24.40	24.05	24.24	23.94	24.90
		36	0	23.81	24.35	23.82	24.00	23.71	24.90
		36	18	23.99	24.29	23.88	23.97	23.69	24.90
		36	39	24.04	24.17	23.90	23.97	23.71	24.90
		75	0	23.91	24.28	23.92	23.98	23.67	24.90
	16QAM	1	0	24.00	24.51	24.13	24.22	24.03	24.90
		1	38	24.21	24.42	24.09	24.12	23.91	24.90
		1	74	24.39	24.44	24.16	24.22	23.94	24.90
		36	0	22.91	23.46	22.94	23.16	22.85	24.30
		36	18	23.13	23.45	23.05	23.12	22.81	24.30
		36	39	23.15	23.29	23.04	23.08	22.79	24.30
		75	0	23.03	23.41	23.02	23.08	22.83	24.30
	64QAM	1	0	22.91	23.62	23.18	23.29	22.88	24.30
		1	38	23.27	23.43	22.93	23.23	22.90	24.30
		1	74	23.45	23.57	23.21	23.38	22.96	24.30
		36	0	21.87	22.47	21.98	22.18	21.88	23.30
		36	18	22.14	22.44	22.02	22.09	21.81	23.30
		36	39	22.17	22.28	22.06	22.13	21.86	23.30
		75	0	22.07	22.44	22.08	22.14	21.84	23.30
	256QAM	1	0	19.93	20.55	20.16	19.95	20.05	21.30
		1	38	20.20	20.34	19.87	20.29	19.91	21.30
		1	74	20.26	20.13	20.00	20.29	19.83	21.30
		36	0	20.13	20.56	20.23	20.21	19.92	21.30
		36	18	20.19	20.61	20.16	20.21	20.05	21.30
		36	39	20.14	20.58	19.93	20.27	19.81	21.30
		75	0	20.38	20.39	19.88	20.05	19.87	21.30
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	23.71	24.55	23.99	24.24	23.83	24.90
		1	50	24.27	24.46	24.07	24.16	23.80	24.90
		1	99	24.44	24.23	24.17	24.17	23.89	24.90
		50	0	23.92	24.35	23.85	24.10	23.75	24.90
		50	25	24.03	24.34	23.95	24.00	23.73	24.90
		50	50	24.16	24.16	23.93	23.99	23.69	24.90
		100	0	23.96	24.32	23.91	23.99	23.70	24.90
	16QAM	1	0	23.83	24.57	24.06	24.40	24.01	24.90
		1	50	24.38	24.58	24.06	24.23	23.92	24.90
		1	99	24.47	24.44	24.26	24.25	23.86	24.90
		50	0	23.03	23.49	22.99	23.17	22.85	24.30

		50	25	23.15	23.45	23.03	23.11	22.86	24.30
		50	50	23.31	23.30	23.08	23.10	22.85	24.30
		100	0	23.17	23.41	23.05	23.15	22.83	24.30
	64QAM	1	0	22.97	23.72	23.17	23.43	22.94	24.30
		1	50	23.44	23.54	23.01	23.38	22.98	24.30
		1	99	23.64	23.24	23.39	23.35	23.13	24.30
		50	0	22.07	22.49	21.96	22.13	21.83	23.30
		50	25	22.18	22.46	22.03	22.15	21.87	23.30
		50	50	22.30	22.29	22.04	22.09	21.83	23.30
		100	0	22.13	22.42	22.01	22.11	21.86	23.30
	256QAM	1	0	19.95	20.61	19.94	20.25	19.91	21.30
		1	50	20.36	20.34	20.07	20.09	19.97	21.30
		1	99	20.38	20.31	20.08	19.99	19.71	21.30
		50	0	20.27	20.58	19.99	20.01	19.88	21.30
50		25	20.07	20.63	20.06	20.05	19.93	21.30	
50		50	20.06	20.64	20.13	20.25	19.77	21.30	
100		0	20.20	20.25	20.22	19.99	19.71	21.30	

LTE Band 41									
Hotspot on--Ant4				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	17.40	17.97	17.52	17.69	17.29	18.30
		1	13	17.52	18.04	17.68	17.78	17.47	18.30
		1	24	17.53	17.92	17.59	17.63	17.27	18.30
		12	0	17.44	17.97	17.56	17.66	17.28	18.30
		12	6	17.49	18.02	17.58	17.60	17.32	18.30
		12	13	17.51	17.87	17.56	17.54	17.31	18.30
		25	0	17.41	18.00	17.57	17.57	17.31	18.30
	16QAM	1	0	17.59	18.20	17.72	17.90	17.51	18.30
		1	13	17.77	18.28	17.91	17.94	17.69	18.30
		1	24	17.82	18.16	17.76	17.83	17.49	18.30
		12	0	17.47	17.99	17.65	17.72	17.35	18.30
		12	6	17.52	17.99	17.68	17.66	17.34	18.30
		12	13	17.53	17.94	17.56	17.65	17.38	18.30
		25	0	17.42	18.00	17.60	17.57	17.29	18.30
	64QAM	1	0	17.54	18.13	17.66	17.79	17.54	18.30
		1	13	17.53	18.28	17.84	17.97	17.62	18.30
		1	24	17.63	18.04	17.87	17.75	17.44	18.30
		12	0	17.42	17.95	17.56	17.65	17.33	18.30
		12	6	17.49	18.07	17.65	17.57	17.29	18.30
		12	13	17.49	17.91	17.58	17.61	17.34	18.30
		25	0	17.47	17.97	17.61	17.54	17.27	18.30
	256QAM	1	0	17.25	17.99	17.57	17.69	17.41	18.30

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		1	13	17.82	17.95	17.52	17.59	17.28	18.30
		1	24	17.93	17.71	17.88	17.63	17.40	18.30
		12	0	17.61	17.90	17.34	17.62	17.17	18.30
		12	6	17.53	17.93	17.51	17.52	17.34	18.30
		12	13	17.78	17.80	17.43	17.42	17.30	18.30
		25	0	17.70	17.77	17.41	17.62	17.34	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	17.43	18.02	17.58	17.70	17.41	18.30
		1	25	17.54	18.04	17.65	17.76	17.33	18.30
		1	49	17.81	17.92	17.60	17.68	17.31	18.30
		25	0	17.45	18.00	17.50	17.68	17.32	18.30
		25	13	17.54	18.00	17.60	17.75	17.29	18.30
		25	25	17.61	17.88	17.58	17.59	17.29	18.30
		50	0	17.47	17.95	17.57	17.67	17.29	18.30
	16QAM	1	0	17.65	18.28	17.75	17.92	17.72	18.30
		1	25	17.81	18.22	17.81	17.95	17.54	18.30
		1	49	17.94	18.15	17.77	18.02	17.54	18.30
		25	0	17.49	18.00	17.54	17.69	17.35	18.30
		25	13	17.56	18.02	17.63	17.72	17.36	18.30
		25	25	17.62	17.91	17.62	17.62	17.29	18.30
		50	0	17.45	17.99	17.57	17.69	17.31	18.30
	64QAM	1	0	17.52	18.16	17.79	17.74	17.59	18.30
		1	25	17.74	18.24	17.72	17.82	17.45	18.30
		1	49	17.97	18.08	17.63	17.91	17.42	18.30
		25	0	17.45	17.95	17.53	17.67	17.34	18.30
		25	13	17.57	18.06	17.62	17.74	17.35	18.30
		25	25	17.65	17.88	17.58	17.59	17.31	18.30
		50	0	17.47	17.97	17.56	17.66	17.31	18.30
	256QAM	1	0	17.25	17.81	17.45	17.69	17.35	18.30
		1	25	17.92	17.67	17.44	17.61	17.22	18.30
		1	49	17.85	17.73	17.68	17.59	17.28	18.30
		25	0	17.43	17.96	17.28	17.66	17.13	18.30
		25	13	17.57	17.83	17.45	17.44	17.30	18.30
		25	25	17.66	17.60	17.33	17.38	17.10	18.30
		50	0	17.48	17.87	17.25	17.40	17.18	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	17.11	17.87	17.54	17.60	17.35	18.30
		1	38	17.69	17.69	17.58	17.47	17.22	18.30
		1	74	17.75	17.88	17.59	17.66	17.40	18.30
		36	0	17.38	17.84	17.35	17.60	17.26	18.30
		36	18	17.53	17.77	17.44	17.47	17.20	18.30

		36	39	17.58	17.69	17.45	17.49	17.17	18.30
		75	0	17.41	17.81	17.42	17.50	17.22	18.30
	16QAM	1	0	17.41	18.03	17.70	17.75	17.38	18.30
		1	38	17.77	17.88	17.62	17.82	17.37	18.30
		1	74	17.88	17.83	17.69	17.78	17.44	18.30
		36	0	17.38	17.88	17.40	17.59	17.28	18.30
		36	18	17.53	17.76	17.45	17.52	17.22	18.30
		36	39	17.61	17.70	17.47	17.45	17.19	18.30
		75	0	17.45	17.79	17.47	17.49	17.24	18.30
		1	0	17.36	17.91	17.70	17.85	17.35	18.30
	64QAM	1	38	17.65	17.91	17.61	17.63	17.40	18.30
		1	74	17.78	18.03	17.69	17.78	17.38	18.30
		36	0	17.34	17.88	17.38	17.63	17.24	18.30
		36	18	17.54	17.81	17.47	17.47	17.24	18.30
		36	39	17.59	17.70	17.50	17.50	17.18	18.30
		75	0	17.45	17.79	17.44	17.51	17.20	18.30
	256QAM	1	0	17.19	17.93	17.59	17.97	17.33	18.30
		1	38	17.66	17.87	17.60	17.67	17.28	18.30
		1	74	17.89	17.95	17.82	17.45	17.40	18.30
		36	0	17.55	17.82	17.58	17.78	17.23	18.30
		36	18	17.61	17.87	17.51	17.48	17.34	18.30
		36	39	17.58	17.60	17.53	17.54	17.20	18.30
		75	0	17.70	17.67	17.39	17.38	17.06	18.30
Bandwidth	Modulation	RB	Offset	Channel/Frequency(MHz)					Tune-up
		Allocation		39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	17.31	17.77	17.45	17.82	17.24	18.30
		1	50	17.79	17.88	17.56	17.76	17.34	18.30
		1	99	17.95	17.79	17.67	17.72	17.33	18.30
		50	0	17.51	17.90	17.38	17.60	17.25	18.30
		50	25	17.59	17.79	17.47	17.52	17.17	18.30
		50	50	17.70	17.68	17.45	17.47	17.18	18.30
		100	0	17.53	17.81	17.45	17.49	17.20	18.30
	16QAM	1	0	17.38	18.09	17.67	17.94	17.47	18.30
		1	50	17.79	17.90	17.57	17.75	17.42	18.30
		1	99	18.11	17.91	17.72	17.72	17.32	18.30
		50	0	17.49	17.88	17.42	17.61	17.24	18.30
		50	25	17.54	17.81	17.49	17.54	17.20	18.30
		50	50	17.74	17.70	17.45	17.50	17.20	18.30
		100	0	17.56	17.83	17.45	17.49	17.24	18.30
	64QAM	1	0	17.27	18.01	17.45	17.77	17.37	18.30
		1	50	17.82	17.83	17.54	17.57	17.38	18.30
		1	99	17.91	17.81	17.76	17.59	17.26	18.30
		50	0	17.51	17.90	17.36	17.58	17.27	18.30

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		50	25	17.57	17.83	17.47	17.52	17.20	18.30
		50	50	17.74	17.70	17.49	17.50	17.20	18.30
		100	0	17.58	17.81	17.41	17.56	17.20	18.30
	256QAM	1	0	17.35	17.93	17.41	17.79	17.45	18.30
		1	50	17.92	17.91	17.68	17.75	17.40	18.30
		1	99	17.81	17.99	17.92	17.69	17.32	18.30
		50	0	17.47	18.04	17.40	17.62	17.17	18.30
		50	25	17.59	17.93	17.43	17.44	17.30	18.30
		50	50	17.74	17.74	17.61	17.58	17.30	18.30
100		0	17.60	17.69	17.39	17.52	17.12	18.30	
LTE Band 41									
Receiver on--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	20.01	20.58	20.10	20.24	20.14	20.90
		1	13	20.24	20.65	20.20	20.37	20.27	20.90
		1	24	20.27	20.51	20.15	20.22	20.17	20.90
		12	0	19.99	20.65	20.10	20.26	20.15	20.90
		12	6	20.11	20.65	20.08	20.24	20.15	20.90
		12	13	20.15	20.52	20.03	20.23	20.13	20.90
		25	0	20.07	20.64	20.05	20.20	20.11	20.90
	16QAM	1	0	20.17	20.88	20.42	20.49	20.42	20.90
		1	13	20.49	20.80	20.39	20.67	20.44	20.90
		1	24	20.52	20.65	20.28	20.53	20.44	20.90
		12	0	19.32	20.02	19.47	19.56	19.48	20.90
		12	6	19.44	19.94	19.42	19.65	19.45	20.90
		12	13	19.51	19.79	19.48	19.56	19.42	20.90
		25	0	19.37	19.92	19.38	19.57	19.44	20.90
	64QAM	1	0	19.57	20.10	19.56	19.74	19.61	20.90
		1	13	19.60	20.23	19.67	19.76	19.72	20.90
		1	24	19.73	20.05	19.65	19.64	19.49	20.90
		12	0	18.37	18.92	18.44	18.55	18.49	19.90
		12	6	18.46	18.92	18.40	18.67	18.54	19.90
		12	13	18.48	18.92	18.38	18.65	18.42	19.90
		25	0	18.40	18.92	18.38	18.57	18.48	19.90
	256QAM	1	0	16.14	16.26	16.17	16.45	16.78	17.40
		1	13	16.17	16.38	16.14	16.61	16.45	17.40
		1	24	16.60	16.19	16.34	16.85	16.52	17.40
		12	0	16.11	16.45	16.30	16.58	16.67	17.40
		12	6	16.25	16.64	15.96	16.57	16.69	17.40
		12	13	16.42	16.59	16.18	16.83	16.56	17.40
		25	0	16.47	16.23	16.42	16.30	16.61	17.40
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)					Tune-up

		RB Allocation		39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	20.03	20.71	20.17	20.33	20.15	20.90
		1	25	20.37	20.62	20.19	20.40	20.22	20.90
		1	49	20.61	20.48	20.20	20.28	20.23	20.90
		25	0	20.11	20.60	20.12	20.20	20.08	20.90
		25	13	20.21	20.53	20.11	20.32	20.11	20.90
		25	25	20.35	20.45	20.13	20.28	20.17	20.90
		50	0	20.19	20.60	20.08	20.31	20.07	20.90
	16QAM	1	0	20.24	20.69	20.30	20.60	20.57	20.90
		1	25	20.67	20.75	20.38	20.51	20.49	20.90
		1	49	20.80	20.78	20.44	20.58	20.54	20.90
		25	0	19.37	19.96	19.46	19.53	19.40	20.90
		25	13	19.49	19.86	19.42	19.64	19.44	20.90
		25	25	19.65	19.81	19.44	19.61	19.49	20.90
		50	0	19.49	19.92	19.40	19.61	19.39	20.90
	64QAM	1	0	19.36	20.27	19.52	19.77	19.56	20.90
		1	25	19.85	20.06	19.67	19.86	19.65	20.90
		1	49	19.96	19.95	19.67	19.77	19.65	20.90
		25	0	18.42	18.97	18.42	18.54	18.40	19.90
		25	13	18.51	18.85	18.42	18.65	18.40	19.90
		25	25	18.65	18.78	18.39	18.61	18.52	19.90
		50	0	18.49	18.94	18.40	18.57	18.36	19.90
	256QAM	1	0	16.14	16.06	16.19	16.43	16.82	17.40
		1	25	16.27	16.58	16.30	16.87	16.49	17.40
		1	49	16.74	16.43	16.36	16.87	16.66	17.40
		25	0	16.07	16.63	16.42	16.74	16.45	17.40
		25	13	16.25	16.60	16.06	16.67	16.47	17.40
		25	25	16.30	16.85	16.42	16.73	16.60	17.40
		50	0	16.53	16.41	16.62	16.64	16.57	17.40
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	19.88	20.47	20.04	20.19	20.08	20.90
		1	38	20.42	20.47	20.15	20.02	20.17	20.90
		1	74	20.70	20.42	20.33	20.33	20.23	20.90
		36	0	20.06	20.48	20.02	20.14	19.94	20.90
		36	18	20.24	20.35	19.99	20.21	20.04	20.90
		36	39	20.46	20.30	20.06	20.17	20.02	20.90
		75	0	20.24	20.33	19.95	20.19	19.92	20.90
	16QAM	1	0	19.92	20.75	20.17	20.46	20.06	20.90
		1	38	20.52	20.77	20.30	20.39	20.29	20.90
		1	74	20.71	20.72	20.45	20.45	20.37	20.90
		36	0	19.38	19.82	19.31	19.42	19.28	20.90

		36	18	19.53	19.67	19.27	19.52	19.33	20.90
		36	39	19.79	19.58	19.36	19.53	19.31	20.90
		75	0	19.57	19.69	19.30	19.53	19.27	20.90
	64QAM	1	0	19.27	19.98	19.40	19.56	19.33	20.90
		1	38	19.82	19.90	19.58	19.67	19.24	20.90
		1	74	20.08	19.80	19.72	19.71	19.65	20.90
		36	0	18.37	18.83	18.32	18.46	18.24	19.90
		36	18	18.56	18.65	18.30	18.52	18.33	19.90
		36	39	18.77	18.64	18.35	18.51	18.37	19.90
		75	0	18.57	18.71	18.29	18.49	18.26	19.90
	256QAM	1	0	16.24	16.10	16.23	16.67	16.76	17.40
		1	38	16.27	16.56	16.32	16.67	16.55	17.40
		1	74	16.74	16.45	16.34	16.91	16.70	17.40
		36	0	16.11	16.51	16.18	16.92	16.49	17.40
		36	18	16.25	16.74	16.16	16.65	16.67	17.40
		36	39	16.32	16.69	16.56	16.85	16.62	17.40
		75	0	16.43	16.37	16.56	16.46	16.41	17.40
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	20.05	20.67	19.97	20.33	20.21	20.90
		1	50	20.63	20.42	20.20	20.30	20.08	20.90
		1	99	20.80	20.29	20.35	20.36	20.15	20.90
		50	0	20.17	20.49	20.03	20.12	19.90	20.90
		50	25	20.48	20.36	19.98	20.24	19.90	20.90
		50	50	20.65	20.23	20.05	20.21	20.05	20.90
		100	0	20.40	20.36	19.99	20.21	19.90	20.90
	16QAM	1	0	20.08	20.75	20.12	20.58	20.10	20.90
		1	50	20.65	20.62	20.26	20.33	20.27	20.90
		1	99	20.60	20.47	20.53	20.48	20.24	20.90
		50	0	19.48	19.85	19.30	19.42	19.26	20.90
		50	25	19.86	19.70	19.32	19.56	19.24	20.90
		50	50	19.96	19.58	19.38	19.55	19.35	20.90
		100	0	19.74	19.69	19.29	19.54	19.23	20.90
	64QAM	1	0	19.28	19.90	19.35	19.63	19.49	20.90
		1	50	19.89	20.02	19.33	19.70	19.44	20.90
		1	99	20.15	19.72	19.58	19.56	19.47	20.90
		50	0	18.49	18.90	18.32	18.45	18.24	19.90
		50	25	18.81	18.73	18.27	18.56	18.23	19.90
		50	50	18.96	18.58	18.38	18.49	18.33	19.90
		100	0	18.74	18.74	18.26	18.51	18.23	19.90
	256QAM	1	0	16.08	16.18	16.11	16.53	16.84	17.40
		1	50	16.25	16.48	16.22	16.71	16.57	17.40
		1	99	16.56	16.29	16.26	16.85	16.62	17.40

		50	0	16.21	16.43	16.30	16.78	16.61	17.40
		50	25	16.15	16.62	16.04	16.67	16.61	17.40
		50	50	16.38	16.63	16.38	16.73	16.50	17.40
		100	0	16.39	16.27	16.40	16.48	16.51	17.40
LTE Band 41									
Receiver off--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	21.21	21.87	21.37	21.47	21.44	22.40
		1	13	21.40	21.97	21.53	21.64	21.38	22.40
		1	24	21.48	21.82	21.44	21.47	21.40	22.40
		12	0	20.23	20.87	20.37	20.53	20.44	21.40
		12	6	20.32	20.90	20.35	20.58	20.45	21.40
		12	13	20.38	20.77	20.35	20.48	20.42	21.40
		25	0	20.30	20.83	20.32	20.51	20.39	21.40
	16QAM	1	0	20.47	21.29	20.67	20.83	20.67	21.40
		1	13	20.55	21.27	20.73	20.96	20.80	21.40
		1	24	20.67	21.11	20.58	20.82	20.65	21.40
		12	0	19.28	20.01	19.40	19.60	19.46	20.40
		12	6	19.36	19.96	19.38	19.60	19.44	20.40
		12	13	19.42	19.82	19.39	19.61	19.46	20.40
		25	0	19.31	19.92	19.31	19.54	19.42	20.40
	64QAM	1	0	19.44	20.19	19.51	19.74	19.63	20.40
		1	13	19.56	20.14	19.62	19.70	19.71	20.40
		1	24	19.60	19.98	19.57	19.61	19.51	20.40
		12	0	18.24	18.98	18.40	18.63	18.51	19.40
		12	6	18.44	18.98	18.40	18.56	18.44	19.40
		12	13	18.48	18.85	18.40	18.60	18.45	19.40
		25	0	18.31	18.97	18.38	18.54	18.44	19.40
	256QAM	1	0	16.35	16.74	16.28	16.38	16.03	17.40
		1	13	16.79	16.69	16.37	16.38	16.20	17.40
		1	24	17.01	16.40	16.22	16.43	16.30	17.40
		12	0	16.58	16.49	16.33	16.49	16.16	17.40
		12	6	16.61	16.75	16.35	16.36	16.14	17.40
		12	13	17.03	16.50	16.36	16.39	16.26	17.40
		25	0	16.58	16.61	16.37	16.55	16.02	17.40
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	21.24	21.91	21.39	21.56	21.40	22.40
		1	25	21.57	21.90	21.45	21.60	21.52	22.40
		1	49	21.83	21.81	21.52	21.49	21.46	22.40
		25	0	20.33	20.90	20.40	20.48	20.33	21.40
		25	13	20.42	20.77	20.35	20.58	20.40	21.40

		25	25	20.60	20.72	20.37	20.52	20.44	21.40
		50	0	20.45	20.85	20.36	20.55	20.33	21.40
	16QAM	1	0	20.56	21.24	20.71	20.83	20.73	21.40
		1	25	20.73	21.22	20.74	20.88	20.74	21.40
		1	49	21.26	21.07	20.74	20.97	20.74	21.40
		25	0	19.32	19.92	19.44	19.51	19.36	20.40
		25	13	19.49	19.78	19.42	19.63	19.42	20.40
		25	25	19.61	19.76	19.42	19.58	19.48	20.40
		50	0	19.45	19.90	19.36	19.58	19.36	20.40
		50	0	19.45	19.90	19.36	19.58	19.36	20.40
	64QAM	1	0	19.30	20.24	19.53	19.74	19.49	20.40
		1	25	19.76	20.11	19.63	19.74	19.67	20.40
		1	49	20.08	19.99	19.74	19.74	19.73	20.40
		25	0	18.39	18.96	18.47	18.48	18.37	19.40
		25	13	18.51	18.85	18.40	18.61	18.44	19.40
		25	25	18.63	18.76	18.42	18.57	18.46	19.40
		50	0	18.48	18.90	18.36	18.60	18.40	19.40
		50	0	18.48	18.90	18.36	18.60	18.40	19.40
	256QAM	1	0	16.39	16.60	16.12	16.38	16.23	17.40
		1	25	16.53	16.69	16.07	16.46	15.96	17.40
		1	49	16.85	16.48	16.36	16.35	16.12	17.40
		25	0	16.64	16.47	16.07	16.49	15.98	17.40
		25	13	16.47	16.45	16.31	16.44	16.10	17.40
		25	25	16.75	16.46	16.24	16.37	16.06	17.40
		50	0	16.68	16.49	16.01	16.21	16.14	17.40
		50	0	16.68	16.49	16.01	16.21	16.14	17.40
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	21.17	21.80	21.22	21.45	21.24	22.40
		1	38	21.48	21.49	21.40	21.33	21.37	22.40
		1	74	22.03	21.70	21.55	21.59	21.49	22.40
		36	0	20.33	20.74	20.29	20.40	20.24	21.40
		36	18	20.49	20.63	20.23	20.45	20.30	21.40
		36	39	20.72	20.56	20.30	20.44	20.33	21.40
		75	0	20.49	20.60	20.28	20.47	20.24	21.40
	16QAM	1	0	20.31	21.10	20.46	20.63	20.38	21.40
		1	38	20.73	20.77	20.53	20.61	20.51	21.40
		1	74	21.07	20.74	20.78	20.74	20.47	21.40
		36	0	19.35	19.85	19.33	19.42	19.26	20.40
		36	18	19.53	19.67	19.27	19.48	19.33	20.40
		36	39	19.76	19.65	19.33	19.54	19.37	20.40
		75	0	19.54	19.70	19.27	19.49	19.24	20.40
	64QAM	1	0	19.33	19.90	19.35	19.49	19.38	20.40
		1	38	19.81	19.85	19.51	19.52	19.49	20.40
		1	74	20.04	19.80	19.63	19.69	19.53	20.40
		36	0	18.33	18.82	18.31	18.40	18.30	19.40

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		36	18	18.54	18.65	18.28	18.52	18.30	19.40
		36	39	18.74	18.65	18.33	18.49	18.37	19.40
		75	0	18.53	18.69	18.27	18.52	18.32	19.40
	256QAM	1	0	16.51	16.82	16.32	16.24	15.95	17.40
		1	38	16.71	16.47	16.37	16.30	16.10	17.40
		1	74	16.69	16.40	16.50	16.53	16.22	17.40
		36	0	16.68	16.73	16.15	16.59	16.20	17.40
		36	18	16.57	16.61	16.07	16.40	16.32	17.40
		36	39	16.95	16.50	16.26	16.33	16.24	17.40
		75	0	16.48	16.55	16.43	16.37	16.22	17.40
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	21.20	21.78	21.40	21.65	21.40	22.40
		1	50	21.87	21.73	21.45	21.56	21.38	22.40
		1	99	22.11	21.60	21.64	21.57	21.49	22.40
		50	0	20.46	20.81	20.27	20.42	20.20	21.40
		50	25	20.80	20.64	20.27	20.53	20.20	21.40
		50	50	20.90	20.53	20.35	20.48	20.28	21.40
		100	0	20.69	20.65	20.26	20.47	20.21	21.40
	16QAM	1	0	20.42	21.20	20.46	20.71	20.57	21.40
		1	50	21.17	20.95	20.52	20.63	20.39	21.40
		1	99	21.29	20.95	20.81	20.74	20.58	21.40
		50	0	19.49	19.82	19.31	19.46	19.15	20.40
		50	25	19.80	19.67	19.30	19.56	19.21	20.40
		50	50	19.92	19.55	19.37	19.46	19.31	20.40
		100	0	19.71	19.65	19.30	19.48	19.23	20.40
	64QAM	1	0	19.22	19.95	19.45	19.73	19.51	20.40
		1	50	19.81	19.74	19.57	19.60	19.48	20.40
		1	99	20.30	19.82	19.55	19.67	19.51	20.40
		50	0	18.47	18.86	18.32	18.42	18.23	19.40
		50	25	18.77	18.69	18.31	18.52	18.24	19.40
		50	50	18.97	18.56	18.38	18.53	18.36	19.40
		100	0	18.74	18.67	18.31	18.51	18.20	19.40
	256QAM	1	0	16.47	16.78	16.12	16.30	16.09	17.40
		1	50	16.55	16.51	16.29	16.40	16.26	17.40
		1	99	16.97	16.60	16.40	16.37	16.14	17.40
		50	0	16.60	16.67	16.27	16.29	16.18	17.40
		50	25	16.67	16.57	16.27	16.58	16.10	17.40
		50	50	16.77	16.62	16.38	16.45	16.32	17.40
		100	0	16.56	16.63	16.31	16.39	16.26	17.40
LTE Band 41									
Hotspot on--Ant5				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation		Offset	Channel/Frequency(MHz)					

		RB Allocation		39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	17.13	17.78	17.29	17.46	17.29	17.90
		1	13	17.36	17.73	17.48	17.57	17.40	17.90
		1	24	17.42	17.74	17.31	17.42	17.32	17.90
		12	0	17.17	17.79	17.24	17.44	17.35	17.90
		12	6	17.28	17.80	17.24	17.49	17.35	17.90
		12	13	17.33	17.65	17.24	17.46	17.30	17.90
		25	0	17.23	17.74	17.23	17.46	17.32	17.90
	16QAM	1	0	17.33	17.80	17.49	17.70	17.61	17.90
		1	13	17.60	17.84	17.65	17.73	17.58	17.90
		1	24	17.65	17.83	17.67	17.71	17.62	17.90
		12	0	17.20	17.79	17.37	17.57	17.36	17.90
		12	6	17.27	17.70	17.33	17.57	17.45	17.90
		12	13	17.31	17.69	17.29	17.47	17.33	17.90
		25	0	17.20	17.82	17.29	17.48	17.30	17.90
	64QAM	1	0	17.22	17.79	17.52	17.58	17.56	17.90
		1	13	17.37	17.74	17.55	17.71	17.54	17.90
		1	24	17.72	17.77	17.49	17.56	17.44	17.90
		12	0	17.21	17.83	17.31	17.49	17.37	17.90
		12	6	17.27	17.68	17.27	17.44	17.47	17.90
		12	13	17.38	17.63	17.15	17.46	17.29	17.90
		25	0	17.21	17.74	17.24	17.44	17.29	17.90
	256QAM	1	0	16.53	17.21	16.61	16.92	16.69	17.40
		1	13	17.18	17.03	16.49	16.60	16.74	17.40
		1	24	17.18	16.85	17.00	16.62	16.64	17.40
		12	0	16.62	16.99	16.39	16.75	16.41	17.40
		12	6	17.07	16.96	16.47	16.77	16.44	17.40
		12	13	17.27	16.70	16.53	16.85	16.48	17.40
		25	0	16.88	16.88	16.43	16.69	16.49	17.40
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	17.23	17.81	17.28	17.49	17.37	17.90
		1	25	17.49	17.77	17.40	17.58	17.44	17.90
		1	49	17.74	17.67	17.40	17.45	17.42	17.90
		25	0	17.28	17.78	17.30	17.39	17.29	17.90
		25	13	17.40	17.69	17.27	17.51	17.31	17.90
		25	25	17.53	17.64	17.29	17.47	17.37	17.90
		50	0	17.39	17.71	17.28	17.49	17.27	17.90
	16QAM	1	0	17.58	17.71	17.60	17.83	17.61	17.90
		1	25	17.65	17.73	17.58	17.83	17.60	17.90
		1	49	17.72	17.69	17.71	17.65	17.58	17.90
		25	0	17.27	17.83	17.35	17.44	17.27	17.90

		25	13	17.40	17.69	17.30	17.54	17.33	17.90
		25	25	17.53	17.65	17.32	17.47	17.36	17.90
		50	0	17.33	17.74	17.29	17.53	17.28	17.90
	64QAM	1	0	17.35	17.73	17.40	17.63	17.48	17.90
		1	25	17.58	17.75	17.40	17.67	17.55	17.90
		1	49	17.80	17.85	17.49	17.51	17.49	17.90
		25	0	17.27	17.79	17.30	17.40	17.28	17.90
		25	13	17.40	17.72	17.24	17.47	17.31	17.90
		25	25	17.56	17.65	17.24	17.51	17.33	17.90
		50	0	17.36	17.76	17.24	17.49	17.27	17.90
	256QAM	1	0	16.53	16.87	16.33	16.70	16.43	17.40
		1	25	17.18	16.91	16.45	16.46	16.62	17.40
		1	49	17.08	16.83	16.72	16.66	16.82	17.40
		25	0	16.76	17.03	16.47	16.53	16.29	17.40
		25	13	16.93	16.84	16.29	16.67	16.42	17.40
		25	25	16.99	16.76	16.33	16.69	16.54	17.40
		50	0	16.74	16.64	16.47	16.71	16.51	17.40
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	17.08	17.56	17.03	17.42	17.29	17.90
		1	38	17.60	17.67	17.36	17.49	17.36	17.90
		1	74	17.81	17.60	17.52	17.55	17.36	17.90
		36	0	17.24	17.65	17.19	17.32	17.14	17.90
		36	18	17.45	17.49	17.15	17.33	17.24	17.90
		36	39	17.65	17.42	17.22	17.38	17.22	17.90
		75	0	17.40	17.53	17.17	17.40	17.13	17.90
	16QAM	1	0	17.24	17.70	17.40	17.56	17.52	17.90
		1	38	17.71	17.67	17.33	17.45	17.47	17.90
		1	74	17.76	17.85	17.64	17.58	17.38	17.90
		36	0	17.29	17.71	17.19	17.30	17.17	17.90
		36	18	17.46	17.51	17.15	17.39	17.22	17.90
		36	39	17.62	17.45	17.19	17.37	17.24	17.90
		75	0	17.44	17.56	17.17	17.36	17.20	17.90
	64QAM	1	0	17.29	17.73	17.35	17.38	17.29	17.90
		1	38	17.62	17.71	17.28	17.42	17.30	17.90
		1	74	17.82	17.61	17.55	17.53	17.38	17.90
		36	0	17.24	17.65	17.15	17.31	17.11	17.90
		36	18	17.42	17.49	17.13	17.42	17.20	17.90
		36	39	17.64	17.42	17.19	17.37	17.22	17.90
		75	0	17.39	17.49	17.15	17.38	17.11	17.90
	256QAM	1	0	16.43	17.25	16.35	16.88	16.75	17.40
		1	38	17.24	17.05	16.73	16.60	16.64	17.40
		1	74	16.90	16.99	16.76	16.56	16.64	17.40

		36	0	16.58	16.89	16.71	16.73	16.39	17.40
		36	18	17.13	16.76	16.49	16.55	16.36	17.40
		36	39	16.95	16.84	16.53	16.69	16.48	17.40
		75	0	16.68	16.72	16.29	16.89	16.39	17.40
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	17.13	17.58	17.22	17.42	17.20	17.90
		1	50	17.77	17.72	17.29	17.53	17.33	17.90
		1	99	17.80	17.52	17.55	17.49	17.35	17.90
		50	0	17.40	17.74	17.17	17.31	17.15	17.90
		50	25	17.64	17.53	17.21	17.42	17.15	17.90
		50	50	17.81	17.44	17.26	17.42	17.21	17.90
		100	0	17.56	17.57	17.17	17.42	17.15	17.90
	16QAM	1	0	17.17	17.87	17.37	17.60	17.49	17.90
		1	50	17.81	17.86	17.40	17.58	17.42	17.90
		1	99	17.78	17.70	17.52	17.62	17.45	17.90
		50	0	17.39	17.78	17.15	17.35	17.15	17.90
		50	25	17.73	17.61	17.19	17.42	17.17	17.90
		50	50	17.85	17.49	17.22	17.42	17.26	17.90
		100	0	17.58	17.58	17.15	17.35	17.17	17.90
	64QAM	1	0	17.15	17.77	17.21	17.46	17.27	17.90
		1	50	17.78	17.65	17.27	17.36	17.32	17.90
		1	99	17.72	17.51	17.54	17.40	17.44	17.90
		50	0	17.42	17.73	17.19	17.31	17.15	17.90
		50	25	17.69	17.52	17.17	17.39	17.12	17.90
		50	50	17.83	17.42	17.23	17.39	17.22	17.90
		100	0	17.56	17.54	17.17	17.39	17.13	17.90
	256QAM	1	0	16.51	16.99	16.67	16.78	16.59	17.40
		1	50	17.26	16.95	16.67	16.84	16.70	17.40
		1	99	17.04	16.91	17.02	16.66	16.78	17.40
		50	0	16.84	16.93	16.59	16.63	16.51	17.40
		50	25	17.05	16.70	16.35	16.65	16.32	17.40
		50	50	17.03	16.90	16.61	16.75	16.52	17.40
		100	0	16.88	16.74	16.39	16.69	16.47	17.40

9.4 CA Mode

Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive. SAR test is not required since maximum output power when downlink carrier aggregation active is not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive.

DL Intra Band Contiguous Measured Results													
CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)					
CA_2C	QPSK	20	18801	1870.1	1,0	20	999	1969.9	40	0	21.99	22.05	-0.06
CA_7C	QPSK	20	21001	2525.1	1,50	20	3199	2664.9	40	0	21.94	21.94	0
CA_12B	QPSK	10	23130	711	1,25	10	5031	731.1	20	0	24.38	24.38	0
CA_38C	QPSK	20	37901	2585.1	1,50	20	38099	2604.9	40	0	23.27	23.27	0
CA_41C	QPSK	20	40521	2583.1	1,0	20	40719	2602.9	40	0	23.57	23.57	0
CA_66C	QPSK	20	132223	1735.1	1,50	20	66885	2154.9	40	0	22.64	22.64	0
DL Intra Band Non-Contiguous Measured Results													
CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)					
CA_66A-66A	QPSK	20	132072	1720	1,50	20	67035	2169.9	40	0	22.64	22.64	0
DL Inter Band(2 Bands)Measured Results													
CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)					
CA_2A-26A	QPSK	20	18900	1880	1,0	15	8915	881.5	35	0	22.05	22.05	0
CA_2A-38A	QPSK	20	18900	1880	1,0	20	38000	2595	40	0	22.05	22.05	0
CA_4A-12A	QPSK	20	20175	1732.5	1,50	10	5095	737.5	30	0	22.70	22.73	-0.03
CA_4A-17A	QPSK	20	20175	1732.5	1,50	10	5790	740	30	0	22.73	22.73	0
CA_7A-26A	QPSK	20	21100	2535	1,50	15	8865	876.5	35	0	21.94	21.94	0
CA_12A-66A	QPSK	10	23095	707.5	1,25	20	66786	2145	30	0	24.36	24.38	-0.02
CA_26A-41A	QPSK	15	26865	831.5	1,38	20	40620	2593	35	0	24.46	24.46	0
CA_38A-66A	QPSK	20	38000	2595	1,50	20	67036	2170	40	0	23.27	23.27	0

DL Inter Band(3 Bands)Measured Results																
CA	CC1 UL					CC2 DL			CC3 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
configuration	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)	BW(MHz)	Channel	Fre(MHz)					
CA_2A-2A-5A	QPSK	20	18900	1880	1,0	20	1100	1980	10	2525	881.5	50	0	22.05	22.05	0
CA_2A-4A-5A	QPSK	20	18900	1880	1,0	20	2300	21455	10	2525	881.5	50	0	22.03	22.05	-0.02
CA_2A-5A-7A	QPSK	20	18900	1880	1,0	10	2525	881.5	20	3350	2680	50	0	22.01	22.05	-0.04

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CA_2A-5A-66A	QPSK	20	18900	1880	1,0	10	2525	881.5	20	67036	2170	50	0	22.05	22.05	0
CA_2A-7A-66A	QPSK	20	18900	1880	1,0	20	2850	2630	20	67036	2170	60	0	22.05	22.05	0
CA_4A-4A-5A	QPSK	20	20175	1732.5	1,50	20	2300	2145	10	2600	889	50	0	22.70	22.73	-0.03
CA_4A-4A-7A	QPSK	20	20175	1732.5	1,50	20	2300	2145	20	3350	2680	60	0	22.72	22.73	-0.01
CA_7A-7A-66A	QPSK	20	20850	2510	1,50	20	3100	2655	20	67036	2170	60	0	21.94	21.94	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.

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 and Table 6.2.2-2 and Table 6.2.2.3-2 of the 3GPP TS138.521-1.

Table 6.2.2.3-1: Maximum power reduction (MPR) for power class 3⁴

Modulation ⁴		MPR (dB) ⁴		
		Edge RB allocations ⁴	Outer RB allocations ⁴	Inner RB allocations ⁴
DFT-s-OFDM ⁴	Pi/2 BPSK ⁴	$\leq 3.5^{14}$	$\leq 1.2^{14}$	$\leq 0.2^{14}$
		$\leq 0.5^{24}$		0^{24}
	Pi/2 BPSK w Pi/2 BPSK DMRS ⁴	$\leq 0.5^{24}$	0^{24}	
	QPSK ⁴	$\leq 1^{4}$		0^{4}
	16 QAM ⁴	$\leq 2^{4}$		$\leq 1^{4}$
	64 QAM ⁴	$\leq 2.5^{4}$		
	256 QAM ⁴	$\leq 4.5^{4}$		
CP-OFDM ⁴	QPSK ⁴	$\leq 3^{4}$		$\leq 1.5^{4}$
	16 QAM ⁴	$\leq 3^{4}$		$\leq 2^{4}$
	64 QAM ⁴	$\leq 3.5^{4}$		
	256 QAM ⁴	$\leq 6.5^{4}$		
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. ⁴				
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation 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. ⁴				

Table 6.2.2.3-2: Maximum power reduction (MPR) for power class 2⁴

Modulation ⁴		MPR (dB) ⁴		
		Edge RB allocations ⁴	Outer RB allocations ⁴	Inner RB allocations ⁴
DFT-s-OFDM ⁴	Pi/2 BPSK ⁴	$\leq 3.5^{4}$	$\leq 0.5^{4}$	0^{4}
	QPSK ⁴	$\leq 3.5^{4}$	$\leq 1^{4}$	0^{4}
	16 QAM ⁴	$\leq 3.5^{4}$	$\leq 2^{4}$	$\leq 1^{4}$
	64 QAM ⁴	$\leq 3.5^{4}$	$\leq 2.5^{4}$	
	256 QAM ⁴	$\leq 4.5^{4}$		
CP-OFDM ⁴	QPSK ⁴	$\leq 3.5^{4}$	$\leq 3^{4}$	$\leq 1.5^{4}$
	16 QAM ⁴	$\leq 3.5^{4}$	$\leq 3^{4}$	$\leq 2^{4}$
	64 QAM ⁴	$\leq 3.5^{4}$		
	256 QAM ⁴	$\leq 6.5^{4}$		

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

n2							
Receiver on& Receiver off--Ant0				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	21.77	21.43	21.52	22.00
		1	23	21.48	21.59	21.38	22.00
		12	6	21.35	21.65	21.54	22.00
		25	0	21.23	21.51	21.56	22.00
	DFT-s-OFDM QPSK	1	1	21.64	21.39	21.47	22.00
		1	23	21.51	21.79	21.16	22.00
		12	6	21.42	21.45	21.71	22.00
		25	0	21.34	21.59	21.38	22.00
	DFT-s-OFDM 16QAM	1	1	21.88	21.50	21.56	22.00
	DFT-s-OFDM 64QAM	1	1	20.94	20.78	21.35	22.00
	DFT-s-OFDM 256QAM	1	1	19.18	18.99	19.17	20.00
	CP-OFDM QPSK	1	1	21.43	21.21	21.84	22.00
	CP-OFDM 16QAM	1	1	21.17	20.96	21.01	21.50
	CP-OFDM 64QAM	1	1	20.22	19.94	20.47	21.00
	CP-OFDM 256QAM	1	1	17.64	17.59	17.72	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	21.51	21.35	21.74	22.00
		1	50	21.26	21.85	21.44	22.00
		25	12	21.45	21.39	21.56	22.00
		50	0	21.25	21.37	21.74	22.00
	DFT-s-OFDM QPSK	1	1	21.58	21.29	21.53	22.00
		1	50	21.51	21.83	21.26	22.00
		25	12	21.36	21.57	21.59	22.00
		50	0	21.36	21.69	21.28	22.00
	DFT-s-OFDM 16QAM	1	1	21.84	21.46	21.72	22.00
	DFT-s-OFDM 64QAM	1	1	20.90	20.82	21.21	22.00

	DFT-s-OFDM 256QAM	1	1	19.20	19.03	18.91	20.00
	CP-OFDM QPSK	1	1	21.61	21.31	21.84	22.00
	CP-OFDM 16QAM	1	1	21.27	21.02	21.09	21.50
	CP-OFDM 64QAM	1	1	20.12	19.86	20.53	21.00
	CP-OFDM 256QAM	1	1	17.66	17.43	17.78	19.00
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	21.61	21.29	21.60	22.00
		1	77	21.54	21.79	21.36	22.00
		36	18	21.47	21.43	21.58	22.00
		75	0	21.29	21.43	21.72	22.00
	DFT-s-OFDM QPSK	1	1	21.64	21.35	21.65	22.00
		1	77	21.29	21.75	21.32	22.00
		36	18	21.26	21.61	21.61	22.00
		75	0	21.42	21.59	21.60	22.00
	DFT-s-OFDM 16QAM	1	1	21.80	21.34	21.60	22.00
	DFT-s-OFDM 64QAM	1	1	20.78	21.00	21.37	22.00
	DFT-s-OFDM 256QAM	1	1	19.36	19.03	19.15	20.00
	CP-OFDM QPSK	1	1	21.61	21.23	21.62	22.00
	CP-OFDM 16QAM	1	1	21.09	20.98	20.89	21.50
	CP-OFDM 64QAM	1	1	20.24	20.02	20.31	21.00
	CP-OFDM 256QAM	1	1	17.62	17.59	17.64	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	21.69	21.33	21.52	22.00
		1	104	21.40	21.63	21.32	22.00
		50	25	21.33	21.55	21.62	22.00
		100	0	21.33	21.55	21.58	22.00
	DFT-s-OFDM QPSK	1	1	21.62	21.41	21.53	22.00
		1	104	21.35	21.65	21.26	22.00
		50	25	21.32	21.53	21.59	22.00
		100	0	21.38	21.55	21.46	22.00
	DFT-s-OFDM 16QAM	1	1	21.74	21.38	21.62	22.00
	DFT-s-OFDM 64QAM	1	1	20.84	20.84	21.19	22.00
	DFT-s-OFDM 256QAM	1	1	19.28	19.09	19.01	20.00
	CP-OFDM QPSK	1	1	21.45	21.25	21.68	22.00
	CP-OFDM 16QAM	1	1	21.05	20.84	20.97	21.50

	CP-OFDM 64QAM	1	1	20.08	19.92	20.31	21.00
	CP-OFDM 256QAM	1	1	17.56	17.57	17.64	19.00
n2							
Hotspot on--Ant0				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	20.11	19.84	20.18	21.00
		1	23	19.77	20.02	19.93	21.00
		12	6	19.89	20.06	20.06	21.00
		25	0	19.89	20.10	20.12	21.00
	DFT-s-OFDM QPSK	1	1	20.09	20.09	20.05	21.00
		1	23	19.74	20.31	19.70	21.00
		12	6	20.00	20.07	20.21	21.00
		25	0	20.14	20.21	20.00	21.00
	DFT-s-OFDM 16QAM	1	1	20.02	20.06	20.29	21.00
	DFT-s-OFDM 64QAM	1	1	20.23	19.68	20.21	21.00
	DFT-s-OFDM 256QAM	1	1	19.22	19.10	18.94	20.00
	CP-OFDM QPSK	1	1	20.25	20.42	20.38	21.00
	CP-OFDM 16QAM	1	1	20.25	19.92	19.87	21.00
	CP-OFDM 64QAM	1	1	20.21	20.00	20.30	21.00
CP-OFDM 256QAM	1	1	17.63	17.54	17.60	19.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	20.23	19.94	20.24	21.00
		1	50	19.89	20.26	19.85	21.00
		25	12	20.05	19.90	20.12	21.00
		50	0	20.09	20.24	20.22	21.00
	DFT-s-OFDM QPSK	1	1	20.41	20.13	20.05	21.00
		1	50	19.84	20.17	19.98	21.00
		25	12	19.82	20.31	20.07	21.00
		50	0	19.92	19.91	19.94	21.00
	DFT-s-OFDM 16QAM	1	1	19.96	20.10	20.17	21.00
	DFT-s-OFDM 64QAM	1	1	20.07	19.68	20.19	21.00
	DFT-s-OFDM 256QAM	1	1	19.00	18.92	19.02	20.00
	CP-OFDM QPSK	1	1	20.35	20.50	20.36	21.00
	CP-OFDM 16QAM	1	1	20.05	19.60	19.93	21.00
	CP-OFDM 64QAM	1	1	20.13	19.72	20.36	21.00
	CP-OFDM 256QAM	1	1	17.63	17.74	17.82	19.00

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	20.33	19.80	20.20	21.00
		1	77	20.05	20.02	19.89	21.00
		36	18	20.15	20.04	20.30	21.00
		75	0	19.99	19.98	20.20	21.00
	DFT-s-OFDM QPSK	1	1	20.21	20.11	20.11	21.00
		1	77	19.96	20.23	19.64	21.00
		36	18	19.96	20.17	20.03	21.00
		75	0	20.02	20.25	20.02	21.00
	DFT-s-OFDM 16QAM	1	1	19.94	20.06	20.07	21.00
	DFT-s-OFDM 64QAM	1	1	20.19	19.76	20.27	21.00
	DFT-s-OFDM 256QAM	1	1	19.10	19.20	19.06	20.00
	CP-OFDM QPSK	1	1	20.33	20.18	20.28	21.00
	CP-OFDM 16QAM	1	1	19.99	19.88	20.09	21.00
	CP-OFDM 64QAM	1	1	20.27	20.00	20.36	21.00
CP-OFDM 256QAM	1	1	17.71	17.52	17.62	19.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	20.21	19.92	20.16	21.00
		1	104	19.87	20.08	19.85	21.00
		50	25	19.97	20.08	20.14	21.00
		100	0	19.97	20.08	20.02	21.00
	DFT-s-OFDM QPSK	1	1	20.19	20.03	20.11	21.00
		1	104	19.82	20.15	19.76	21.00
		50	25	19.96	20.13	20.11	21.00
		100	0	19.98	20.09	20.00	21.00
	DFT-s-OFDM 16QAM	1	1	20.02	19.92	20.13	21.00
	DFT-s-OFDM 64QAM	1	1	20.15	19.78	20.21	21.00
	DFT-s-OFDM 256QAM	1	1	19.12	19.10	19.02	20.00
	CP-OFDM QPSK	1	1	20.17	20.30	20.26	21.00
	CP-OFDM 16QAM	1	1	20.11	19.76	19.95	21.00
	CP-OFDM 64QAM	1	1	20.29	19.90	20.28	21.00
CP-OFDM 256QAM	1	1	17.63	17.52	17.62	19.00	
n2							
Receiver on--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	16.05	15.62	15.50	16.70
		1	23	15.48	15.39	15.10	16.70
		12	6	15.62	15.43	15.41	16.70
		25	0	15.71	15.48	15.51	16.70
	DFT-s-OFDM QPSK	1	1	16.24	15.39	15.47	16.70
		1	23	15.45	15.30	15.18	16.70
		12	6	15.77	15.46	15.38	16.70
		25	0	15.83	15.45	15.57	16.70
	DFT-s-OFDM 16QAM	1	1	16.13	15.15	15.77	16.70
	DFT-s-OFDM 64QAM	1	1	15.98	15.48	15.18	16.70
	DFT-s-OFDM 256QAM	1	1	16.25	15.01	15.52	16.70
	CP-OFDM QPSK	1	1	16.00	15.56	15.51	16.70
	CP-OFDM 16QAM	1	1	16.18	15.20	14.93	16.70
	CP-OFDM 64QAM	1	1	15.88	15.59	15.40	16.70
	CP-OFDM 256QAM	1	1	16.58	15.53	15.46	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	16.09	15.56	15.56	16.70
		1	50	15.54	15.47	15.10	16.70
		25	12	15.72	15.67	15.53	16.70
		50	0	15.71	15.44	15.43	16.70
	DFT-s-OFDM QPSK	1	1	16.24	15.37	15.59	16.70
		1	50	15.39	15.44	15.18	16.70
		25	12	15.65	15.46	15.42	16.70
		50	0	15.77	15.85	15.29	16.70
	DFT-s-OFDM 16QAM	1	1	16.27	15.15	15.89	16.70
	DFT-s-OFDM 64QAM	1	1	16.08	15.60	15.40	16.70
	DFT-s-OFDM 256QAM	1	1	16.35	15.01	15.38	16.70
	CP-OFDM QPSK	1	1	16.06	15.50	15.53	16.70
	CP-OFDM 16QAM	1	1	16.24	15.34	14.93	16.70
	CP-OFDM 64QAM	1	1	16.18	15.49	15.46	16.70
	CP-OFDM 256QAM	1	1	16.52	15.49	15.58	16.70
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	16.03	15.52	15.58	16.70
		1	77	15.30	15.63	15.14	16.70
		36	18	15.70	15.59	15.55	16.70
		75	0	15.89	15.58	15.41	16.70

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	DFT-s-OFDM QPSK	1	1	16.24	15.55	15.63	16.70
		1	77	15.47	15.38	15.26	16.70
		36	18	15.77	15.78	15.30	16.70
		75	0	15.75	15.57	15.35	16.70
	DFT-s-OFDM 16QAM	1	1	16.21	15.25	15.65	16.70
	DFT-s-OFDM 64QAM	1	1	16.06	15.52	15.24	16.70
	DFT-s-OFDM 256QAM	1	1	16.41	15.11	15.58	16.70
	CP-OFDM QPSK	1	1	16.02	15.48	15.51	16.70
	CP-OFDM 16QAM	1	1	16.24	15.14	14.99	16.70
	CP-OFDM 64QAM	1	1	15.96	15.51	15.56	16.70
	CP-OFDM 256QAM	1	1	16.64	15.73	15.68	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	16.13	15.52	15.48	16.70
		1	104	15.42	15.47	15.20	16.70
		50	25	15.64	15.57	15.41	16.70
		100	0	15.71	15.60	15.43	16.70
	DFT-s-OFDM QPSK	1	1	16.14	15.51	15.51	16.70
		1	104	15.47	15.48	15.12	16.70
		50	25	15.67	15.62	15.38	16.70
		100	0	15.73	15.65	15.47	16.70
	DFT-s-OFDM 16QAM	1	1	16.05	15.31	15.69	16.70
	DFT-s-OFDM 64QAM	1	1	15.90	15.50	15.36	16.70
	DFT-s-OFDM 256QAM	1	1	16.29	15.19	15.46	16.70
	CP-OFDM QPSK	1	1	16.04	15.56	15.41	16.70
	CP-OFDM 16QAM	1	1	16.32	15.26	15.01	16.70
	CP-OFDM 64QAM	1	1	16.04	15.59	15.38	16.70
	CP-OFDM 256QAM	1	1	16.50	15.57	15.54	16.70
n2							
Receiver off--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	21.72	20.97	20.96	22.00
		1	23	21.08	20.95	20.58	22.00
		12	6	21.16	21.08	20.79	22.00
		25	0	21.06	21.19	21.02	22.00
	DFT-s-OFDM QPSK	1	1	21.48	21.16	20.84	22.00
		1	23	21.05	21.08	20.74	22.00

		12	6	21.13	21.13	20.96	22.00
		25	0	21.23	21.14	20.99	22.00
	DFT-s-OFDM 16QAM	1	1	21.54	20.73	21.12	22.00
	DFT-s-OFDM 64QAM	1	1	21.49	21.19	20.81	22.00
	DFT-s-OFDM 256QAM	1	1	19.70	19.13	19.34	20.00
	CP-OFDM QPSK	1	1	21.07	21.06	20.77	22.00
	CP-OFDM 16QAM	1	1	20.79	20.82	20.66	21.50
	CP-OFDM 64QAM	1	1	20.72	20.67	20.17	21.00
	CP-OFDM 256QAM	1	1	18.60	17.93	18.06	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	21.66	21.13	21.20	22.00
		1	50	21.22	20.93	20.76	22.00
		25	12	21.02	21.30	20.89	22.00
		50	0	21.12	21.07	21.02	22.00
	DFT-s-OFDM QPSK	1	1	21.66	21.16	20.88	22.00
		1	50	21.11	21.26	20.62	22.00
		25	12	21.09	21.33	20.94	22.00
		50	0	21.45	21.10	20.89	22.00
	DFT-s-OFDM 16QAM	1	1	21.58	20.93	21.34	22.00
	DFT-s-OFDM 64QAM	1	1	21.59	21.29	20.87	22.00
	DFT-s-OFDM 256QAM	1	1	19.70	19.43	19.36	20.00
	CP-OFDM QPSK	1	1	21.33	20.92	21.07	22.00
	CP-OFDM 16QAM	1	1	20.83	20.82	20.48	21.50
	CP-OFDM 64QAM	1	1	20.76	20.51	20.43	21.00
	CP-OFDM 256QAM	1	1	18.62	17.99	18.24	19.00
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	21.58	20.95	21.20	22.00
		1	77	21.02	21.07	20.88	22.00
		36	18	21.36	21.30	21.05	22.00
		75	0	21.36	21.09	21.00	22.00
	DFT-s-OFDM QPSK	1	1	21.52	21.16	21.08	22.00
		1	77	20.97	21.04	20.56	22.00
		36	18	21.25	21.01	21.04	22.00
		75	0	21.21	21.32	21.13	22.00
	DFT-s-OFDM 16QAM	1	1	21.38	21.01	21.14	22.00

	DFT-s-OFDM 64QAM	1	1	21.49	21.21	21.01	22.00
	DFT-s-OFDM 256QAM	1	1	19.80	19.19	19.40	20.00
	CP-OFDM QPSK	1	1	21.19	20.90	20.99	22.00
	CP-OFDM 16QAM	1	1	21.13	20.78	20.44	21.50
	CP-OFDM 64QAM	1	1	20.58	20.55	20.37	21.00
	CP-OFDM 256QAM	1	1	18.78	18.21	18.26	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	21.66	21.05	21.04	22.00
		1	104	21.02	21.01	20.72	22.00
		50	25	21.18	21.12	20.93	22.00
		100	0	21.26	21.15	20.94	22.00
	DFT-s-OFDM QPSK	1	1	21.60	21.12	21.00	22.00
		1	104	21.01	21.04	20.68	22.00
		50	25	21.15	21.13	20.90	22.00
		100	0	21.23	21.18	21.03	22.00
	DFT-s-OFDM 16QAM	1	1	21.50	20.87	21.26	22.00
	DFT-s-OFDM 64QAM	1	1	21.43	21.11	20.87	22.00
	DFT-s-OFDM 256QAM	1	1	19.68	19.27	19.50	20.00
	CP-OFDM QPSK	1	1	21.17	20.98	20.95	22.00
	CP-OFDM 16QAM	1	1	20.99	20.72	20.56	21.50
	CP-OFDM 64QAM	1	1	20.66	20.57	20.37	21.00
	CP-OFDM 256QAM	1	1	18.68	18.11	18.08	19.00
n2							
Hotspot on--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	14.04	13.63	13.56	14.70
		1	23	13.42	13.46	13.33	14.70
		12	6	13.77	13.60	13.57	14.70
		25	0	13.88	13.73	13.41	14.70
	DFT-s-OFDM QPSK	1	1	14.03	13.70	13.59	14.70
		1	23	13.45	13.53	13.10	14.70
		12	6	13.70	13.52	13.33	14.70
		25	0	13.64	13.74	13.41	14.70
	DFT-s-OFDM 16QAM	1	1	13.94	13.50	13.85	14.70
	DFT-s-OFDM 64QAM	1	1	13.99	13.49	13.43	14.70

	DFT-s-OFDM 256QAM	1	1	14.32	13.43	13.44	14.70
	CP-OFDM QPSK	1	1	14.14	13.59	13.36	14.70
	CP-OFDM 16QAM	1	1	14.32	13.17	13.12	14.70
	CP-OFDM 64QAM	1	1	14.12	13.51	13.34	14.70
	CP-OFDM 256QAM	1	1	14.68	13.55	13.76	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376000/1880	381000/1905	
10MHz	DFT-s-OFDM BPSK	1	1	14.18	13.69	13.62	14.70
		1	50	13.54	13.24	13.05	14.70
		25	12	13.85	13.48	13.65	14.70
		50	0	13.82	13.57	13.37	14.70
	DFT-s-OFDM QPSK	1	1	14.29	13.68	13.47	14.70
		1	50	13.49	13.61	13.16	14.70
		25	12	13.66	13.64	13.59	14.70
		50	0	13.64	13.70	13.29	14.70
	DFT-s-OFDM 16QAM	1	1	13.90	13.54	13.69	14.70
	DFT-s-OFDM 64QAM	1	1	13.87	13.65	13.35	14.70
	DFT-s-OFDM 256QAM	1	1	14.50	13.25	13.72	14.70
	CP-OFDM QPSK	1	1	14.22	13.53	13.66	14.70
	CP-OFDM 16QAM	1	1	14.42	13.31	12.92	14.70
	CP-OFDM 64QAM	1	1	14.20	13.55	13.38	14.70
	CP-OFDM 256QAM	1	1	14.60	13.45	13.48	14.70
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	14.12	13.45	13.42	14.70
		1	77	13.42	13.54	13.19	14.70
		36	18	13.81	13.64	13.57	14.70
		75	0	13.68	13.53	13.47	14.70
	DFT-s-OFDM QPSK	1	1	14.27	13.70	13.43	14.70
		1	77	13.63	13.41	13.26	14.70
		36	18	13.70	13.52	13.31	14.70
		75	0	13.80	13.74	13.37	14.70
	DFT-s-OFDM 16QAM	1	1	14.14	13.48	13.79	14.70
	DFT-s-OFDM 64QAM	1	1	14.05	13.51	13.35	14.70
	DFT-s-OFDM 256QAM	1	1	14.42	13.33	13.62	14.70
	CP-OFDM QPSK	1	1	14.04	13.67	13.56	14.70
	CP-OFDM 16QAM	1	1	14.30	13.43	13.14	14.70

	CP-OFDM 64QAM	1	1	14.14	13.45	13.56	14.70
	CP-OFDM 256QAM	1	1	14.70	13.61	13.76	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376000/1880	380000/1900	
20MHz	DFT-s-OFDM BPSK	1	1	14.08	13.53	13.50	14.70
		1	104	13.50	13.42	13.21	14.70
		50	25	13.65	13.54	13.49	14.70
		100	0	13.74	13.61	13.41	14.70
	DFT-s-OFDM QPSK	1	1	14.09	13.56	13.49	14.70
		1	104	13.47	13.53	13.14	14.70
		50	25	13.66	13.60	13.43	14.70
		100	0	13.72	13.68	13.47	14.70
	DFT-s-OFDM 16QAM	1	1	14.04	13.40	13.75	14.70
	DFT-s-OFDM 64QAM	1	1	13.91	13.57	13.35	14.70
	DFT-s-OFDM 256QAM	1	1	14.34	13.29	13.54	14.70
	CP-OFDM QPSK	1	1	14.08	13.57	13.46	14.70
	CP-OFDM 16QAM	1	1	14.34	13.27	13.02	14.70
	CP-OFDM 64QAM	1	1	14.00	13.57	13.42	14.70
	CP-OFDM 256QAM	1	1	14.52	13.61	13.62	14.70

n7							
Receiver on& Receiver off--Ant0				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	21.72	21.77	21.56	22.20
		1	23	21.86	21.24	21.56	22.20
		12	6	21.77	21.63	21.41	22.20
		25	0	21.79	21.76	21.53	22.20
	DFT-s-OFDM QPSK	1	1	21.77	22.01	21.64	22.20
		1	23	21.71	21.58	21.61	22.20
		12	6	21.81	21.73	21.66	22.20
		25	0	21.79	21.19	21.48	22.20
	DFT-s-OFDM 16QAM	1	1	21.62	21.65	21.57	22.20
	DFT-s-OFDM 64QAM	1	1	21.64	21.77	21.63	22.20
	DFT-s-OFDM 256QAM	1	1	20.13	20.21	20.02	21.20
	CP-OFDM QPSK	1	1	21.50	21.85	21.52	22.20
	CP-OFDM 16QAM	1	1	21.82	22.08	21.39	22.20

	CP-OFDM 64QAM	1	1	21.19	21.32	20.98	22.20
	CP-OFDM 256QAM	1	1	18.67	19.16	18.42	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	21.46	22.01	21.78	22.20
		1	50	21.62	21.22	21.52	22.20
		25	12	21.77	21.59	21.69	22.20
		50	0	21.53	21.72	21.43	22.20
	DFT-s-OFDM QPSK	1	1	21.61	22.05	21.42	22.20
		1	50	21.97	21.72	21.69	22.20
		25	12	21.69	21.61	21.56	22.20
		50	0	21.65	21.33	21.42	22.20
	DFT-s-OFDM 16QAM	1	1	21.80	21.93	21.47	22.20
	DFT-s-OFDM 64QAM	1	1	21.50	21.71	21.45	22.20
	DFT-s-OFDM 256QAM	1	1	20.01	20.43	20.08	21.20
	CP-OFDM QPSK	1	1	21.68	21.93	21.54	22.20
	CP-OFDM 16QAM	1	1	22.06	21.88	21.27	22.20
	CP-OFDM 64QAM	1	1	20.99	21.50	20.86	22.20
	CP-OFDM 256QAM	1	1	18.73	19.28	18.58	20.20
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	21.58	21.79	21.80	22.20
		1	77	21.68	21.42	21.38	22.20
		36	18	21.71	21.73	21.49	22.20
		75	0	21.73	21.90	21.59	22.20
	DFT-s-OFDM QPSK	1	1	21.71	21.85	21.68	22.20
		1	77	21.67	21.62	21.53	22.20
		36	18	21.75	21.89	21.56	22.20
		75	0	21.61	21.11	21.44	22.20
	DFT-s-OFDM 16QAM	1	1	21.60	21.83	21.65	22.20
	DFT-s-OFDM 64QAM	1	1	21.44	21.81	21.39	22.20
	DFT-s-OFDM 256QAM	1	1	20.33	20.33	20.16	21.20
	CP-OFDM QPSK	1	1	21.42	21.87	21.50	22.20
	CP-OFDM 16QAM	1	1	21.92	22.14	21.31	22.20
	CP-OFDM 64QAM	1	1	21.27	21.26	21.06	22.20
	CP-OFDM 256QAM	1	1	18.57	19.10	18.46	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	

20MHz	DFT-s-OFDM BPSK	1	1	21.70	21.85	21.48	22.20
		1	104	21.82	21.02	21.30	22.20
		50	25	21.73	21.93	21.57	22.20
		100	0	21.53	21.84	21.81	22.20
	DFT-s-OFDM QPSK	1	1	21.93	22.15	21.34	22.20
		1	104	21.79	21.64	21.59	22.20
		50	25	21.75	21.83	21.68	22.20
		100	0	21.45	20.95	21.46	22.20
	DFT-s-OFDM 16QAM	1	1	21.50	21.59	21.51	22.20
	DFT-s-OFDM 64QAM	1	1	21.74	21.81	21.57	22.20
	DFT-s-OFDM 256QAM	1	1	20.09	20.03	19.94	21.20
	CP-OFDM QPSK	1	1	21.58	21.87	21.36	22.20
	CP-OFDM 16QAM	1	1	22.00	21.86	21.61	22.20
	CP-OFDM 64QAM	1	1	21.15	21.40	20.92	22.20
	CP-OFDM 256QAM	1	1	18.51	19.26	18.56	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502500/2512.5	507000/2535	511500/2562.5	
25MHz	DFT-s-OFDM BPSK	1	1	21.76	21.77	21.42	22.20
		1	131	21.88	21.16	21.18	22.20
		64	32	21.83	21.91	21.75	22.20
		128	0	21.59	21.78	21.71	22.20
	DFT-s-OFDM QPSK	1	1	21.85	22.03	21.44	22.20
		1	131	21.91	21.64	21.69	22.20
		64	32	21.63	22.01	21.84	22.20
		128	0	21.35	21.05	21.60	22.20
	DFT-s-OFDM 16QAM	1	1	21.38	21.53	21.69	22.20
	DFT-s-OFDM 64QAM	1	1	21.78	21.81	21.53	22.20
	DFT-s-OFDM 256QAM	1	1	20.07	20.11	19.98	21.20
	CP-OFDM QPSK	1	1	21.62	21.79	21.30	22.20
	CP-OFDM 16QAM	1	1	22.08	22.02	21.67	22.20
	CP-OFDM 64QAM	1	1	21.19	21.58	21.08	22.20
	CP-OFDM 256QAM	1	1	18.65	19.24	18.74	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503000/2515	507000/2535	511000/2565	
30MHz	DFT-s-OFDM BPSK	1	1	21.92	21.97	21.70	22.20
		1	158	21.68	21.02	21.42	22.20
		80	40	21.85	21.87	21.41	22.20
		160	0	21.67	21.66	21.53	22.20

	DFT-s-OFDM QPSK	1	1	21.95	22.13	21.50	22.20
		1	158	21.87	21.56	21.47	22.20
		80	40	21.71	21.85	21.48	22.20
		160	0	21.51	21.21	21.30	22.20
	DFT-s-OFDM 16QAM	1	1	21.68	21.75	21.37	22.20
	DFT-s-OFDM 64QAM	1	1	21.66	21.77	21.53	22.20
	DFT-s-OFDM 256QAM	1	1	20.21	20.25	19.90	21.20
	CP-OFDM QPSK	1	1	21.28	21.85	21.66	22.20
	CP-OFDM 16QAM	1	1	22.24	21.98	21.39	22.20
		CP-OFDM 64QAM	1	1	21.43	21.40	20.98
CP-OFDM 256QAM		1	1	18.49	19.14	18.42	20.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504000/2520	507000/2535	510000/2550	
40MHz	DFT-s-OFDM BPSK	1	1	21.64	21.79	21.62	22.20
		1	214	21.76	21.26	21.50	22.20
		108	54	21.71	21.69	21.51	22.20
		216	0	21.67	21.74	21.51	22.20
	DFT-s-OFDM QPSK	1	1	21.67	21.87	21.52	22.20
		1	214	21.79	21.54	21.47	22.20
		108	54	21.71	21.75	21.50	22.20
		216	0	21.69	21.15	21.52	22.20
	DFT-s-OFDM 16QAM	1	1	21.68	21.75	21.51	22.20
	DFT-s-OFDM 64QAM	1	1	21.50	21.73	21.51	22.20
	DFT-s-OFDM 256QAM	1	1	20.19	20.29	20.04	21.20
	CP-OFDM QPSK	1	1	21.50	21.71	21.52	22.20
	CP-OFDM 16QAM	1	1	21.92	21.98	21.31	22.20
	CP-OFDM 64QAM	1	1	21.09	21.34	20.94	22.20
	CP-OFDM 256QAM	1	1	18.53	19.10	18.52	20.20
n7							
Hotspot on--Ant0				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	19.98	20.31	19.96	20.70
		1	23	20.12	19.61	19.98	20.70
		12	6	20.04	20.14	19.92	20.70
		25	0	20.13	20.29	19.87	20.70
	DFT-s-OFDM QPSK	1	1	20.03	20.17	20.04	20.70
		1	23	20.19	20.00	19.98	20.70

		12	6	20.01	20.22	19.85	20.70
		25	0	20.07	19.95	19.75	20.70
	DFT-s-OFDM 16QAM	1	1	19.92	20.24	19.77	20.70
	DFT-s-OFDM 64QAM	1	1	19.89	20.18	19.88	20.70
	DFT-s-OFDM 256QAM	1	1	20.30	20.14	19.91	20.70
	CP-OFDM QPSK	1	1	19.93	20.10	20.02	20.70
	CP-OFDM 16QAM	1	1	20.51	20.34	19.65	20.70
	CP-OFDM 64QAM	1	1	19.93	20.26	19.94	20.70
	CP-OFDM 256QAM	1	1	18.55	19.17	18.46	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	20.28	20.29	19.98	20.70
		1	50	20.46	19.65	19.92	20.70
		25	12	20.24	20.34	19.84	20.70
		50	0	20.37	20.29	20.05	20.70
	DFT-s-OFDM QPSK	1	1	20.05	20.37	19.96	20.70
		1	50	20.37	20.02	20.18	20.70
		25	12	20.05	20.30	20.09	20.70
		50	0	20.23	20.35	19.95	20.70
	DFT-s-OFDM 16QAM	1	1	20.18	20.26	19.93	20.70
	DFT-s-OFDM 64QAM	1	1	20.03	20.08	20.20	20.70
	DFT-s-OFDM 256QAM	1	1	20.26	20.48	19.95	20.70
	CP-OFDM QPSK	1	1	19.93	20.12	19.90	20.70
	CP-OFDM 16QAM	1	1	20.37	20.40	19.65	20.70
	CP-OFDM 64QAM	1	1	19.91	20.50	19.94	20.70
	CP-OFDM 256QAM	1	1	18.73	18.95	18.42	19.70
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	19.96	20.29	20.20	20.70
		1	77	20.30	19.73	19.90	20.70
		36	18	20.16	20.18	20.14	20.70
		75	0	20.31	20.09	19.93	20.70
	DFT-s-OFDM QPSK	1	1	20.11	20.29	19.98	20.70
		1	77	20.29	20.16	19.92	20.70
		36	18	20.33	20.38	20.17	20.70
		75	0	20.27	20.09	19.83	20.70
	DFT-s-OFDM 16QAM	1	1	20.18	20.16	19.85	20.70

	DFT-s-OFDM 64QAM	1	1	20.09	20.24	20.10	20.70
	DFT-s-OFDM 256QAM	1	1	20.22	20.34	20.09	20.70
	CP-OFDM QPSK	1	1	19.89	20.20	19.98	20.70
	CP-OFDM 16QAM	1	1	20.33	20.38	19.69	20.70
	CP-OFDM 64QAM	1	1	20.23	20.32	19.98	20.70
	CP-OFDM 256QAM	1	1	18.59	19.11	18.66	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	20.10	20.31	20.32	20.70
		1	104	20.22	19.83	20.00	20.70
		50	25	20.26	20.06	20.04	20.70
		100	0	20.43	20.19	19.99	20.70
	DFT-s-OFDM QPSK	1	1	20.15	20.45	20.14	20.70
		1	104	20.25	20.32	20.06	20.70
		50	25	20.49	20.36	20.35	20.70
		100	0	20.21	20.01	19.89	20.70
	DFT-s-OFDM 16QAM	1	1	20.12	20.24	19.75	20.70
	DFT-s-OFDM 64QAM	1	1	20.13	20.36	20.22	20.70
	DFT-s-OFDM 256QAM	1	1	20.22	20.50	19.99	20.70
	CP-OFDM QPSK	1	1	19.99	20.28	19.98	20.70
	CP-OFDM 16QAM	1	1	20.35	20.40	19.63	20.70
	CP-OFDM 64QAM	1	1	20.27	20.44	20.14	20.70
	CP-OFDM 256QAM	1	1	18.59	19.05	18.56	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502500/2512.5	507000/2535	511500/2562.5	
25MHz	DFT-s-OFDM BPSK	1	1	20.28	20.31	20.22	20.70
		1	131	20.10	19.85	20.08	20.70
		64	32	20.44	20.04	20.06	20.70
		128	0	20.39	20.23	20.01	20.70
	DFT-s-OFDM QPSK	1	1	20.11	20.57	20.02	20.70
		1	131	20.17	20.44	20.06	20.70
		64	32	20.59	20.30	20.27	20.70
		128	0	20.35	19.93	20.07	20.70
	DFT-s-OFDM 16QAM	1	1	20.04	20.20	19.75	20.70
	DFT-s-OFDM 64QAM	1	1	20.03	20.52	20.14	20.70
	DFT-s-OFDM 256QAM	1	1	20.32	20.38	19.99	20.70

	CP-OFDM QPSK	1	1	20.03	20.38	19.94	20.70
	CP-OFDM 16QAM	1	1	20.29	20.50	19.81	20.70
	CP-OFDM 64QAM	1	1	20.33	20.38	20.08	20.70
	CP-OFDM 256QAM	1	1	18.57	19.03	18.60	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503000/2515	507000/2535	511000/2565	
30MHz	DFT-s-OFDM BPSK	1	1	20.04	20.27	20.20	20.70
		1	158	20.22	19.85	19.96	20.70
		80	40	20.38	20.00	20.10	20.70
		160	0	20.23	19.99	19.93	20.70
	DFT-s-OFDM QPSK	1	1	20.01	20.29	20.06	20.70
		1	158	20.51	20.10	20.00	20.70
		80	40	20.51	20.48	20.31	20.70
		160	0	20.15	20.19	19.67	20.70
	DFT-s-OFDM 16QAM	1	1	20.02	20.08	19.99	20.70
	DFT-s-OFDM 64QAM	1	1	20.05	20.46	20.18	20.70
	DFT-s-OFDM 256QAM	1	1	20.04	20.34	20.03	20.70
	CP-OFDM QPSK	1	1	20.05	20.12	20.14	20.70
	CP-OFDM 16QAM	1	1	20.47	20.20	19.59	20.70
	CP-OFDM 64QAM	1	1	20.29	20.36	19.88	20.70
	CP-OFDM 256QAM	1	1	18.71	19.09	18.88	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504000/2520	507000/2535	510000/2550	
40MHz	DFT-s-OFDM BPSK	1	1	20.08	20.25	20.12	20.70
		1	214	20.24	19.79	19.98	20.70
		108	54	20.16	20.14	19.98	20.70
		216	0	20.17	20.21	19.99	20.70
	DFT-s-OFDM QPSK	1	1	20.17	20.37	20.06	20.70
		1	214	20.29	20.06	19.96	20.70
		108	54	20.19	20.24	19.99	20.70
		216	0	20.13	20.15	19.93	20.70
	DFT-s-OFDM 16QAM	1	1	20.12	20.22	19.95	20.70
	DFT-s-OFDM 64QAM	1	1	19.95	20.18	19.98	20.70
	DFT-s-OFDM 256QAM	1	1	20.22	20.30	20.07	20.70
	CP-OFDM QPSK	1	1	19.99	20.22	20.02	20.70
	CP-OFDM 16QAM	1	1	20.41	20.48	19.81	20.70
	CP-OFDM 64QAM	1	1	20.07	20.32	19.92	20.70
	CP-OFDM 256QAM	1	1	18.61	19.11	18.56	19.70

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Receiver on--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	15.85	15.89	15.71	16.80
		1	23	16.03	15.52	15.17	16.80
		12	6	16.07	15.71	15.45	16.80
		25	0	16.00	15.71	15.21	16.80
	DFT-s-OFDM QPSK	1	1	15.98	15.97	15.70	16.80
		1	23	16.06	15.64	15.33	16.80
		12	6	15.92	15.74	15.29	16.80
		25	0	16.00	15.83	15.26	16.80
	DFT-s-OFDM 16QAM	1	1	15.74	16.32	15.62	16.80
	DFT-s-OFDM 64QAM	1	1	15.68	16.13	15.37	16.80
	DFT-s-OFDM 256QAM	1	1	16.13	16.01	15.38	16.80
	CP-OFDM QPSK	1	1	15.89	15.80	15.44	16.80
	CP-OFDM 16QAM	1	1	15.72	15.91	15.54	16.80
	CP-OFDM 64QAM	1	1	15.96	16.33	15.53	16.80
CP-OFDM 256QAM	1	1	15.69	16.31	15.82	16.80	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	15.89	16.09	15.67	16.80
		1	50	16.09	15.70	15.53	16.80
		25	12	16.07	15.67	15.31	16.80
		50	0	16.22	15.85	15.31	16.80
	DFT-s-OFDM QPSK	1	1	16.26	16.09	15.72	16.80
		1	50	16.28	15.70	15.47	16.80
		25	12	16.06	15.82	15.39	16.80
		50	0	16.20	15.97	15.34	16.80
	DFT-s-OFDM 16QAM	1	1	16.02	16.40	15.52	16.80
	DFT-s-OFDM 64QAM	1	1	15.80	16.19	15.43	16.80
	DFT-s-OFDM 256QAM	1	1	16.17	16.23	15.78	16.80
	CP-OFDM QPSK	1	1	15.97	16.22	15.56	16.80
	CP-OFDM 16QAM	1	1	15.92	16.11	15.40	16.80
	CP-OFDM 64QAM	1	1	16.28	16.37	15.59	16.80
	CP-OFDM 256QAM	1	1	15.93	16.19	15.96	16.80
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	16.07	16.15	15.61	16.80
		1	77	16.03	15.74	15.43	16.80
		36	18	16.19	15.57	15.53	16.80
		75	0	16.20	15.65	15.37	16.80
	DFT-s-OFDM QPSK	1	1	16.22	16.17	15.82	16.80
		1	77	16.40	15.84	15.33	16.80
		36	18	16.02	15.92	15.47	16.80
		75	0	16.30	15.95	15.44	16.80
	DFT-s-OFDM 16QAM	1	1	16.04	16.34	15.72	16.80
	DFT-s-OFDM 64QAM	1	1	15.58	16.37	15.41	16.80
	DFT-s-OFDM 256QAM	1	1	16.15	16.31	15.62	16.80
	CP-OFDM QPSK	1	1	16.03	15.96	15.32	16.80
	CP-OFDM 16QAM	1	1	16.08	16.19	15.60	16.80
	CP-OFDM 64QAM	1	1	16.22	16.27	15.87	16.80
	CP-OFDM 256QAM	1	1	15.77	16.35	15.84	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	15.87	15.95	15.49	16.80
		1	104	16.11	15.78	15.45	16.80
		50	25	16.11	15.73	15.27	16.80
		100	0	16.18	15.71	15.35	16.80
	DFT-s-OFDM QPSK	1	1	16.18	15.93	15.64	16.80
		1	104	16.36	15.64	15.37	16.80
		50	25	16.26	15.94	15.51	16.80
		100	0	16.26	15.77	15.22	16.80
	DFT-s-OFDM 16QAM	1	1	16.04	16.50	15.58	16.80
	DFT-s-OFDM 64QAM	1	1	15.68	16.05	15.63	16.80
	DFT-s-OFDM 256QAM	1	1	16.19	16.19	15.68	16.80
	CP-OFDM QPSK	1	1	16.13	16.14	15.58	16.80
	CP-OFDM 16QAM	1	1	15.76	15.89	15.52	16.80
	CP-OFDM 64QAM	1	1	16.22	16.41	15.57	16.80
	CP-OFDM 256QAM	1	1	15.87	16.19	15.78	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502500/2512.5	507000/2535	511500/2562.5	
25MHz	DFT-s-OFDM BPSK	1	1	15.75	16.11	15.63	16.80
		1	131	16.07	15.76	15.55	16.80
		64	32	16.25	15.89	15.43	16.80
		128	0	16.26	15.89	15.47	16.80

	DFT-s-OFDM QPSK	1	1	16.32	16.09	15.76	16.80
		1	131	16.34	15.82	15.53	16.80
		64	32	16.20	15.86	15.53	16.80
		128	0	16.20	15.73	15.16	16.80
	DFT-s-OFDM 16QAM	1	1	16.02	16.44	15.72	16.80
	DFT-s-OFDM 64QAM	1	1	15.74	15.93	15.65	16.80
	DFT-s-OFDM 256QAM	1	1	16.07	16.25	15.76	16.80
	CP-OFDM QPSK	1	1	16.13	16.18	15.72	16.80
	CP-OFDM 16QAM	1	1	15.86	15.87	15.54	16.80
	CP-OFDM 64QAM	1	1	16.40	16.43	15.59	16.80
	CP-OFDM 256QAM	1	1	15.87	16.13	15.84	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503000/2515	507000/2535	511000/2565	
30MHz	DFT-s-OFDM BPSK	1	1	15.93	15.93	15.61	16.80
		1	158	16.03	15.62	15.39	16.80
		80	40	16.17	15.63	15.39	16.80
		160	0	16.22	15.69	15.29	16.80
	DFT-s-OFDM QPSK	1	1	16.10	15.95	15.72	16.80
		1	158	16.22	15.74	15.47	16.80
		80	40	16.10	15.76	15.47	16.80
		160	0	16.08	15.89	15.30	16.80
	DFT-s-OFDM 16QAM	1	1	15.86	16.44	15.52	16.80
	DFT-s-OFDM 64QAM	1	1	15.66	16.15	15.47	16.80
	DFT-s-OFDM 256QAM	1	1	16.25	16.19	15.74	16.80
	CP-OFDM QPSK	1	1	15.97	16.06	15.48	16.80
	CP-OFDM 16QAM	1	1	15.88	15.99	15.42	16.80
	CP-OFDM 64QAM	1	1	16.14	16.43	15.67	16.80
	CP-OFDM 256QAM	1	1	15.85	16.25	15.90	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504000/2520	507000/2535	510000/2550	
40MHz	DFT-s-OFDM BPSK	1	1	15.91	16.05	15.65	16.80
		1	214	16.09	15.72	15.35	16.80
		108	54	16.01	15.71	15.43	16.80
		216	0	16.04	15.69	15.39	16.80
	DFT-s-OFDM QPSK	1	1	15.98	16.05	15.70	16.80
		1	214	16.08	15.66	15.41	16.80
		108	54	16.08	15.74	15.47	16.80
		216	0	16.02	15.75	15.36	16.80

	DFT-s-OFDM 16QAM	1	1	15.92	16.28	15.54	16.80
	DFT-s-OFDM 64QAM	1	1	15.74	16.03	15.43	16.80
	DFT-s-OFDM 256QAM	1	1	16.09	16.15	15.58	16.80
	CP-OFDM QPSK	1	1	16.07	15.96	15.44	16.80
	CP-OFDM 16QAM	1	1	15.74	16.01	15.50	16.80
	CP-OFDM 64QAM	1	1	15.98	16.37	15.55	16.80
	CP-OFDM 256QAM	1	1	15.85	16.27	15.82	16.80
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Receiver Off--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	17.73	17.93	17.31	18.30
		1	23	17.88	17.81	17.42	18.30
		12	6	17.78	16.86	17.29	18.30
		25	0	17.70	17.79	17.41	18.30
	DFT-s-OFDM QPSK	1	1	17.88	17.93	17.43	18.30
		1	23	18.01	17.49	17.51	18.30
		12	6	17.90	17.18	17.52	18.30
		25	0	17.84	17.54	17.31	18.30
	DFT-s-OFDM 16QAM	1	1	17.82	17.98	17.46	18.30
	DFT-s-OFDM 64QAM	1	1	17.46	17.50	17.44	18.30
	DFT-s-OFDM 256QAM	1	1	17.95	17.84	17.53	18.30
	CP-OFDM QPSK	1	1	17.82	17.52	17.30	18.30
	CP-OFDM 16QAM	1	1	17.51	17.74	17.55	18.30
	CP-OFDM 64QAM	1	1	17.82	18.17	17.65	18.30
	CP-OFDM 256QAM	1	1	17.54	17.92	17.64	18.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	17.85	17.93	17.45	18.30
		1	50	17.98	17.83	17.36	18.30
		25	12	17.98	16.98	17.43	18.30
		50	0	18.12	17.87	17.27	18.30
	DFT-s-OFDM QPSK	1	1	17.76	17.85	17.57	18.30
		1	50	18.01	17.43	17.39	18.30
		25	12	18.12	17.14	17.56	18.30
		50	0	17.74	17.82	17.31	18.30
	DFT-s-OFDM 16QAM	1	1	18.06	18.16	17.56	18.30

	DFT-s-OFDM 64QAM	1	1	17.50	17.78	17.58	18.30
	DFT-s-OFDM 256QAM	1	1	18.17	18.00	17.43	18.30
	CP-OFDM QPSK	1	1	18.04	17.72	17.62	18.30
	CP-OFDM 16QAM	1	1	17.53	17.68	17.29	18.30
	CP-OFDM 64QAM	1	1	17.88	18.11	17.45	18.30
	CP-OFDM 256QAM	1	1	17.44	18.06	17.78	18.30
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	18.05	18.07	17.53	18.30
		1	77	17.94	17.81	17.26	18.30
		36	18	17.84	17.18	17.53	18.30
		75	0	18.06	17.81	17.25	18.30
	DFT-s-OFDM QPSK	1	1	17.88	17.95	17.47	18.30
		1	77	17.89	17.71	17.57	18.30
		36	18	17.80	17.26	17.52	18.30
		75	0	17.94	17.78	17.43	18.30
	DFT-s-OFDM 16QAM	1	1	18.04	18.06	17.58	18.30
	DFT-s-OFDM 64QAM	1	1	17.58	17.84	17.24	18.30
	DFT-s-OFDM 256QAM	1	1	18.07	17.96	17.47	18.30
	CP-OFDM QPSK	1	1	17.96	17.86	17.56	18.30
	CP-OFDM 16QAM	1	1	17.53	17.88	17.47	18.30
	CP-OFDM 64QAM	1	1	17.96	18.25	17.47	18.30
	CP-OFDM 256QAM	1	1	17.60	17.90	17.60	18.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	18.05	18.07	17.53	18.30
		1	104	17.94	17.81	17.26	18.30
		50	25	17.84	17.18	17.53	18.30
		100	0	18.06	17.81	17.25	18.30
	DFT-s-OFDM QPSK	1	1	17.88	17.95	17.47	18.30
		1	104	17.89	17.71	17.57	18.30
		50	25	17.80	17.26	17.52	18.30
		100	0	17.94	17.78	17.43	18.30
	DFT-s-OFDM 16QAM	1	1	18.04	18.06	17.58	18.30
	DFT-s-OFDM 64QAM	1	1	17.58	17.84	17.24	18.30
	DFT-s-OFDM 256QAM	1	1	18.07	17.96	17.47	18.30

	CP-OFDM QPSK	1	1	17.96	17.86	17.56	18.30
	CP-OFDM 16QAM	1	1	17.53	17.88	17.47	18.30
	CP-OFDM 64QAM	1	1	17.96	18.25	17.47	18.30
	CP-OFDM 256QAM	1	1	17.60	17.90	17.60	18.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502500/2512.5	507000/2535	511500/2562.5	
25MHz	DFT-s-OFDM BPSK	1	1	18.05	18.07	17.53	18.30
		1	131	17.94	17.81	17.26	18.30
		64	32	17.84	17.18	17.53	18.30
		128	0	18.06	17.81	17.25	18.30
	DFT-s-OFDM QPSK	1	1	17.88	17.95	17.47	18.30
		1	131	17.89	17.71	17.57	18.30
		64	32	17.80	17.26	17.52	18.30
		128	0	17.94	17.78	17.43	18.30
	DFT-s-OFDM 16QAM	1	1	18.04	18.06	17.58	18.30
	DFT-s-OFDM 64QAM	1	1	17.58	17.84	17.24	18.30
	DFT-s-OFDM 256QAM	1	1	18.07	17.96	17.47	18.30
	CP-OFDM QPSK	1	1	17.96	17.86	17.56	18.30
	CP-OFDM 16QAM	1	1	17.53	17.88	17.47	18.30
	CP-OFDM 64QAM	1	1	17.96	18.25	17.47	18.30
	CP-OFDM 256QAM	1	1	17.60	17.90	17.60	18.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503000/2515	507000/2535	511000/2565	
30MHz	DFT-s-OFDM BPSK	1	1	18.05	18.07	17.53	18.30
		1	158	17.94	17.81	17.26	18.30
		80	40	17.84	17.18	17.53	18.30
		160	0	18.06	17.81	17.25	18.30
	DFT-s-OFDM QPSK	1	1	17.88	17.95	17.47	18.30
		1	158	17.89	17.71	17.57	18.30
		80	40	17.80	17.26	17.52	18.30
		160	0	17.94	17.78	17.43	18.30
	DFT-s-OFDM 16QAM	1	1	18.04	18.06	17.58	18.30
	DFT-s-OFDM 64QAM	1	1	17.58	17.84	17.24	18.30
	DFT-s-OFDM 256QAM	1	1	18.07	17.96	17.47	18.30
	CP-OFDM QPSK	1	1	17.96	17.86	17.56	18.30
	CP-OFDM 16QAM	1	1	17.53	17.88	17.47	18.30
	CP-OFDM 64QAM	1	1	17.96	18.25	17.47	18.30
	CP-OFDM 256QAM	1	1	17.60	17.90	17.60	18.30

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504000/2520	507000/2535	510000/2550	
40MHz	DFT-s-OFDM BPSK	1	1	17.87	17.89	17.49	18.30
		1	214	17.94	17.71	17.36	18.30
		108	54	17.86	17.00	17.43	18.30
		216	0	17.90	17.77	17.37	18.30
	DFT-s-OFDM QPSK	1	1	17.84	17.91	17.57	18.30
		1	214	17.97	17.61	17.41	18.30
		108	54	17.90	17.20	17.48	18.30
		216	0	17.92	17.74	17.33	18.30
	DFT-s-OFDM 16QAM	1	1	17.86	17.98	17.44	18.30
	DFT-s-OFDM 64QAM	1	1	17.62	17.68	17.36	18.30
	DFT-s-OFDM 256QAM	1	1	18.01	17.84	17.53	18.30
	CP-OFDM QPSK	1	1	17.98	17.68	17.40	18.30
	CP-OFDM 16QAM	1	1	17.65	17.78	17.47	18.30
	CP-OFDM 64QAM	1	1	17.82	18.11	17.55	18.30
	CP-OFDM 256QAM	1	1	17.56	17.86	17.62	18.30
n7							
Hotspot on--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	13.47	13.13	12.89	13.80
		1	23	13.51	13.05	12.80	13.80
		12	6	13.50	13.05	12.96	13.80
		25	0	13.59	13.20	12.99	13.80
	DFT-s-OFDM QPSK	1	1	13.26	13.20	13.03	13.80
		1	23	13.39	12.97	12.96	13.80
		12	6	13.40	13.14	12.95	13.80
		25	0	13.30	13.12	13.00	13.80
	DFT-s-OFDM 16QAM	1	1	13.41	13.57	12.91	13.80
	DFT-s-OFDM 64QAM	1	1	13.05	13.03	12.72	13.80
	DFT-s-OFDM 256QAM	1	1	13.43	13.48	13.09	13.80
	CP-OFDM QPSK	1	1	13.41	13.11	12.85	13.80
	CP-OFDM 16QAM	1	1	13.29	13.06	12.82	13.80
	CP-OFDM 64QAM	1	1	13.54	13.68	12.81	13.80
	CP-OFDM 256QAM	1	1	13.45	13.50	13.37	13.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	

10MHz	DFT-s-OFDM BPSK	1	1	13.43	13.35	13.11	13.80
		1	50	13.65	13.35	13.16	13.80
		25	12	13.62	13.43	13.24	13.80
		50	0	13.65	13.14	13.15	13.80
	DFT-s-OFDM QPSK	1	1	13.46	13.16	13.21	13.80
		1	50	13.37	13.27	12.90	13.80
		25	12	13.32	13.48	13.09	13.80
		50	0	13.40	13.06	12.92	13.80
	DFT-s-OFDM 16QAM	1	1	13.51	13.47	12.91	13.80
	DFT-s-OFDM 64QAM	1	1	13.13	13.41	13.02	13.80
	DFT-s-OFDM 256QAM	1	1	13.57	13.30	13.07	13.80
	CP-OFDM QPSK	1	1	13.71	13.31	13.01	13.80
	CP-OFDM 16QAM	1	1	13.25	13.04	13.00	13.80
	CP-OFDM 64QAM	1	1	13.38	13.62	13.17	13.80
	CP-OFDM 256QAM	1	1	13.29	13.60	13.41	13.80
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	13.33	13.33	12.95	13.80
		1	77	13.49	13.21	12.94	13.80
		36	18	13.46	13.17	13.14	13.80
		75	0	13.41	13.36	12.91	13.80
	DFT-s-OFDM QPSK	1	1	13.50	13.28	13.11	13.80
		1	77	13.67	13.25	12.88	13.80
		36	18	13.54	13.30	13.19	13.80
		75	0	13.44	13.36	12.82	13.80
	DFT-s-OFDM 16QAM	1	1	13.35	13.57	12.81	13.80
	DFT-s-OFDM 64QAM	1	1	13.15	13.15	12.98	13.80
	DFT-s-OFDM 256QAM	1	1	13.63	13.38	13.13	13.80
	CP-OFDM QPSK	1	1	13.45	13.35	12.89	13.80
	CP-OFDM 16QAM	1	1	13.17	13.06	12.92	13.80
	CP-OFDM 64QAM	1	1	13.62	13.74	13.13	13.80
	CP-OFDM 256QAM	1	1	13.29	13.50	13.17	13.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	13.43	13.45	13.03	13.80
		1	104	13.59	13.17	12.90	13.80
		50	25	13.46	13.41	13.04	13.80
		100	0	13.35	13.26	13.13	13.80

	DFT-s-OFDM QPSK	1	1	13.48	13.52	13.13	13.80
		1	104	13.59	13.21	12.94	13.80
		50	25	13.34	13.42	13.13	13.80
		100	0	13.28	13.36	12.86	13.80
	DFT-s-OFDM 16QAM	1	1	13.61	13.49	13.07	13.80
	DFT-s-OFDM 64QAM	1	1	13.29	13.43	13.02	13.80
	DFT-s-OFDM 256QAM	1	1	13.69	13.38	13.11	13.80
	CP-OFDM QPSK	1	1	13.39	13.37	13.01	13.80
	CP-OFDM 16QAM	1	1	13.03	13.14	12.92	13.80
	CP-OFDM 64QAM	1	1	13.70	13.62	13.07	13.80
	CP-OFDM 256QAM	1	1	13.31	13.52	13.27	13.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502500/2512.5	507000/2535	511500/2562.5	
25MHz	DFT-s-OFDM BPSK	1	1	13.59	13.45	13.17	13.80
		1	131	13.65	13.09	12.84	13.80
		64	32	13.62	13.41	12.88	13.80
		128	0	13.41	13.18	13.23	13.80
	DFT-s-OFDM QPSK	1	1	13.68	13.72	13.13	13.80
		1	131	13.65	13.31	12.78	13.80
		64	32	13.28	13.48	12.97	13.80
		128	0	13.38	13.38	12.98	13.80
	DFT-s-OFDM 16QAM	1	1	13.53	13.31	12.91	13.80
	DFT-s-OFDM 64QAM	1	1	13.13	13.43	12.84	13.80
	DFT-s-OFDM 256QAM	1	1	13.51	13.40	13.17	13.80
	CP-OFDM QPSK	1	1	13.23	13.55	13.13	13.80
	CP-OFDM 16QAM	1	1	12.91	13.12	12.94	13.80
	CP-OFDM 64QAM	1	1	13.76	13.48	13.03	13.80
	CP-OFDM 256QAM	1	1	13.23	13.62	13.23	13.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503000/2515	507000/2535	511000/2565	
30MHz	DFT-s-OFDM BPSK	1	1	13.55	13.41	13.09	13.80
		1	158	13.69	13.01	12.94	13.80
		80	40	13.42	13.13	13.18	13.80
		160	0	13.49	13.16	13.07	13.80
	DFT-s-OFDM QPSK	1	1	13.56	13.42	13.05	13.80
		1	158	13.67	13.19	12.92	13.80
		80	40	13.62	13.30	13.11	13.80
		160	0	13.36	13.14	12.88	13.80

	DFT-s-OFDM 16QAM	1	1	13.49	13.67	12.99	13.80
	DFT-s-OFDM 64QAM	1	1	13.23	13.29	12.96	13.80
	DFT-s-OFDM 256QAM	1	1	13.53	13.36	13.07	13.80
	CP-OFDM QPSK	1	1	13.63	13.21	13.03	13.80
	CP-OFDM 16QAM	1	1	13.29	13.28	13.00	13.80
	CP-OFDM 64QAM	1	1	13.38	13.78	13.11	13.80
	CP-OFDM 256QAM	1	1	13.39	13.58	13.25	13.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504000/2520	507000/2535	510000/2550	
40MHz	DFT-s-OFDM BPSK	1	1	13.43	13.31	13.03	13.80
		1	214	13.53	13.13	12.94	13.80
		108	54	13.48	13.25	13.02	13.80
		216	0	13.51	13.26	12.97	13.80
	DFT-s-OFDM QPSK	1	1	13.42	13.30	13.05	13.80
		1	214	13.55	13.15	12.98	13.80
		108	54	13.50	13.28	13.03	13.80
		216	0	13.46	13.24	12.92	13.80
	DFT-s-OFDM 16QAM	1	1	13.43	13.51	12.89	13.80
	DFT-s-OFDM 64QAM	1	1	13.21	13.23	12.82	13.80
	DFT-s-OFDM 256QAM	1	1	13.55	13.38	13.05	13.80
	CP-OFDM QPSK	1	1	13.55	13.19	12.89	13.80
	CP-OFDM 16QAM	1	1	13.21	13.14	12.98	13.80
	CP-OFDM 64QAM	1	1	13.50	13.60	12.99	13.80
CP-OFDM 256QAM	1	1	13.39	13.46	13.27	13.80	
n7							
Receiver on--Ant4				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	15.18	15.80	15.66	16.70
		1	23	15.97	15.52	15.17	16.70
		12	6	15.71	15.71	15.52	16.70
		25	0	15.61	15.82	15.47	16.70
	DFT-s-OFDM QPSK	1	1	15.49	15.93	15.83	16.70
		1	23	15.89	15.62	15.28	16.70
		12	6	15.65	15.88	15.71	16.70
		25	0	15.51	15.76	15.47	16.70
	DFT-s-OFDM 16QAM	1	1	15.44	16.30	15.39	16.70

	DFT-s-OFDM 64QAM	1	1	14.88	15.65	15.43	16.70
	DFT-s-OFDM 256QAM	1	1	15.42	15.77	15.78	16.70
	CP-OFDM QPSK	1	1	15.31	15.65	15.60	16.70
	CP-OFDM 16QAM	1	1	14.90	15.64	15.52	16.70
	CP-OFDM 64QAM	1	1	15.40	15.76	15.66	16.70
	CP-OFDM 256QAM	1	1	15.27	16.34	15.73	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	15.36	15.70	15.54	16.70
		1	50	15.87	15.50	15.11	16.70
		25	12	15.75	15.61	15.80	16.70
		50	0	15.73	15.86	15.41	16.70
	DFT-s-OFDM QPSK	1	1	15.53	16.05	15.87	16.70
		1	50	15.87	15.72	15.40	16.70
		25	12	15.91	15.82	15.55	16.70
		50	0	15.87	15.80	15.61	16.70
	DFT-s-OFDM 16QAM	1	1	15.58	16.12	15.45	16.70
	DFT-s-OFDM 64QAM	1	1	14.88	15.67	15.51	16.70
	DFT-s-OFDM 256QAM	1	1	15.40	15.95	15.64	16.70
	CP-OFDM QPSK	1	1	15.23	15.67	15.46	16.70
	CP-OFDM 16QAM	1	1	14.90	16.02	15.46	16.70
	CP-OFDM 64QAM	1	1	15.58	16.10	15.52	16.70
	CP-OFDM 256QAM	1	1	15.45	16.12	15.79	16.70
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	15.58	16.26	15.58	16.70
		1	77	15.91	15.74	15.43	16.70
		36	18	15.73	15.83	15.70	16.70
		75	0	15.75	15.90	15.85	16.70
	DFT-s-OFDM QPSK	1	1	15.35	16.15	15.75	16.70
		1	77	16.03	16.04	15.30	16.70
		36	18	15.99	16.06	15.71	16.70
		75	0	15.65	15.94	15.83	16.70
	DFT-s-OFDM 16QAM	1	1	15.24	15.96	15.61	16.70
	DFT-s-OFDM 64QAM	1	1	15.22	15.91	15.85	16.70
	DFT-s-OFDM 256QAM	1	1	15.48	15.99	15.74	16.70

	CP-OFDM QPSK	1	1	15.49	15.91	15.82	16.70
	CP-OFDM 16QAM	1	1	15.14	15.98	15.66	16.70
	CP-OFDM 64QAM	1	1	15.32	16.02	15.62	16.70
	CP-OFDM 256QAM	1	1	15.47	16.50	15.81	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	15.48	16.22	15.94	16.70
		1	104	16.13	15.74	15.39	16.70
		50	25	15.41	15.77	15.68	16.70
		100	0	15.81	15.72	15.79	16.70
	DFT-s-OFDM QPSK	1	1	15.59	16.03	15.81	16.70
		1	104	16.19	15.96	15.56	16.70
		50	25	15.85	16.06	15.69	16.70
		100	0	15.85	16.04	15.75	16.70
	DFT-s-OFDM 16QAM	1	1	15.54	16.08	15.61	16.70
	DFT-s-OFDM 64QAM	1	1	15.20	15.99	15.63	16.70
	DFT-s-OFDM 256QAM	1	1	15.74	16.07	15.86	16.70
	CP-OFDM QPSK	1	1	15.25	15.89	15.86	16.70
	CP-OFDM 16QAM	1	1	15.06	15.96	15.50	16.70
	CP-OFDM 64QAM	1	1	15.38	16.10	15.84	16.70
	CP-OFDM 256QAM	1	1	15.59	16.38	15.91	16.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502500/2512.5	507000/2535	511500/2562.5	
25MHz	DFT-s-OFDM BPSK	1	1	15.38	16.32	15.92	16.70
		1	131	16.27	15.88	15.33	16.70
		64	32	15.31	15.59	15.88	16.70
		128	0	15.73	15.54	15.79	16.70
	DFT-s-OFDM QPSK	1	1	15.71	16.23	16.01	16.70
		1	131	16.31	15.92	15.72	16.70
		64	32	15.79	16.16	15.67	16.70
		128	0	15.85	16.10	15.57	16.70
	DFT-s-OFDM 16QAM	1	1	15.36	15.96	15.77	16.70
	DFT-s-OFDM 64QAM	1	1	15.20	15.83	15.73	16.70
	DFT-s-OFDM 256QAM	1	1	15.56	16.29	16.04	16.70
	CP-OFDM QPSK	1	1	15.41	15.73	15.96	16.70
	CP-OFDM 16QAM	1	1	15.28	16.18	15.54	16.70
	CP-OFDM 64QAM	1	1	15.40	16.14	15.92	16.70
	CP-OFDM 256QAM	1	1	15.53	16.22	16.03	16.70

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503000/2515	507000/2535	511000/2565	
30MHz	DFT-s-OFDM BPSK	1	1	15.42	16.04	15.76	16.70
		1	158	16.01	15.56	15.37	16.70
		80	40	15.53	15.77	15.56	16.70
		160	0	15.69	15.72	15.65	16.70
	DFT-s-OFDM QPSK	1	1	15.45	15.99	15.71	16.70
		1	158	16.15	15.84	15.44	16.70
		80	40	15.87	15.98	15.61	16.70
		160	0	15.71	15.86	15.69	16.70
	DFT-s-OFDM 16QAM	1	1	15.38	16.12	15.65	16.70
	DFT-s-OFDM 64QAM	1	1	15.12	15.83	15.63	16.70
	DFT-s-OFDM 256QAM	1	1	15.62	15.99	15.92	16.70
	CP-OFDM QPSK	1	1	15.33	15.77	15.68	16.70
	CP-OFDM 16QAM	1	1	15.00	15.96	15.62	16.70
	CP-OFDM 64QAM	1	1	15.48	15.92	15.78	16.70
CP-OFDM 256QAM	1	1	15.43	16.44	15.99	16.70	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504000/2600	507000/2535	510000/2570	
40MHz	DFT-s-OFDM BPSK	1	1	15.38	15.88	15.68	16.70
		1	214	15.97	15.68	15.27	16.70
		108	54	15.65	15.79	15.62	16.70
		216	0	15.65	15.76	15.57	16.70
	DFT-s-OFDM QPSK	1	1	15.51	15.99	15.77	16.70
		1	214	16.05	15.82	15.44	16.70
		108	54	15.69	15.80	15.67	16.70
		216	0	15.69	15.78	15.61	16.70
	DFT-s-OFDM 16QAM	1	1	15.38	16.22	15.57	16.70
	DFT-s-OFDM 64QAM	1	1	15.00	15.77	15.53	16.70
	DFT-s-OFDM 256QAM	1	1	15.48	15.95	15.78	16.70
	CP-OFDM QPSK	1	1	15.35	15.83	15.60	16.70
	CP-OFDM 16QAM	1	1	15.06	15.84	15.50	16.70
	CP-OFDM 64QAM	1	1	15.48	15.88	15.62	16.70
CP-OFDM 256QAM	1	1	15.29	16.30	15.83	16.70	
n7							
Receiver Off--Ant4				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	19.70	20.36	20.15	21.00
		1	23	20.58	20.21	19.92	21.00
		12	6	20.27	20.08	20.02	21.00
		25	0	20.08	20.22	20.17	21.00
	DFT-s-OFDM QPSK	1	1	19.90	20.55	20.18	21.00
		1	23	20.49	20.35	19.78	21.00
		12	6	20.30	20.14	20.05	21.00
		25	0	20.04	20.24	20.10	21.00
	DFT-s-OFDM 16QAM	1	1	19.60	20.50	19.99	21.00
	DFT-s-OFDM 64QAM	1	1	19.54	20.17	20.04	21.00
	DFT-s-OFDM 256QAM	1	1	18.87	19.21	19.13	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	20.10	20.26	20.19	21.00
		1	50	20.40	20.45	19.76	21.00
		25	12	20.25	20.48	20.02	21.00
		50	0	20.06	20.34	19.99	21.00
	DFT-s-OFDM QPSK	1	1	19.98	20.51	20.24	21.00
		1	50	20.37	20.37	20.02	21.00
		25	12	20.08	20.46	20.29	21.00
		50	0	20.28	20.44	20.22	21.00
	DFT-s-OFDM 16QAM	1	1	19.96	20.64	19.83	21.00
	DFT-s-OFDM 64QAM	1	1	19.46	20.33	19.86	21.00
	DFT-s-OFDM 256QAM	1	1	18.95	19.53	19.39	20.00
	CP-OFDM QPSK	1	1	19.64	20.26	20.05	21.00
	CP-OFDM 16QAM	1	1	19.64	20.30	20.13	21.00
	CP-OFDM 64QAM	1	1	19.94	20.38	20.11	21.00
	CP-OFDM 256QAM	1	1	17.15	18.43	17.81	19.00
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	19.72	20.08	19.91	21.00
		1	77	20.50	20.15	19.66	21.00
		36	18	20.25	20.22	20.14	21.00
		75	0	19.98	20.10	19.85	21.00

	DFT-s-OFDM QPSK	1	1	20.00	20.51	20.26	21.00
		1	77	20.61	20.23	20.04	21.00
		36	18	19.96	19.94	20.05	21.00
		75	0	20.34	19.96	20.22	21.00
	DFT-s-OFDM 16QAM	1	1	19.92	20.60	19.87	21.00
	DFT-s-OFDM 64QAM	1	1	19.54	20.43	19.98	21.00
	DFT-s-OFDM 256QAM	1	1	18.65	19.39	18.85	20.00
	CP-OFDM QPSK	1	1	19.68	20.42	20.07	21.00
	CP-OFDM 16QAM	1	1	19.38	20.62	19.97	21.00
	CP-OFDM 64QAM	1	1	20.14	20.56	19.95	21.00
	CP-OFDM 256QAM	1	1	17.51	18.15	17.81	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	19.86	20.48	19.91	21.00
		1	104	20.70	20.25	19.94	21.00
		50	25	20.07	20.38	20.22	21.00
		100	0	20.40	20.40	20.27	21.00
	DFT-s-OFDM QPSK	1	1	19.98	20.61	20.06	21.00
		1	104	20.69	20.25	19.96	21.00
		50	25	20.04	20.06	19.91	21.00
		100	0	20.26	20.46	20.06	21.00
	DFT-s-OFDM 16QAM	1	1	19.84	20.78	19.89	21.00
	DFT-s-OFDM 64QAM	1	1	19.68	20.25	19.98	21.00
	DFT-s-OFDM 256QAM	1	1	18.85	19.31	19.05	20.00
	CP-OFDM QPSK	1	1	19.56	20.28	20.07	21.00
	CP-OFDM 16QAM	1	1	19.52	20.20	20.11	21.00
	CP-OFDM 64QAM	1	1	19.82	20.48	19.97	21.00
	CP-OFDM 256QAM	1	1	17.43	18.35	17.65	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502500/2512.5	507000/2535	511500/2562.5	
25MHz	DFT-s-OFDM BPSK	1	1	19.94	20.60	19.91	21.00
		1	131	20.80	20.33	20.10	21.00
		64	32	20.11	20.38	20.26	21.00
		128	0	20.30	20.58	20.29	21.00
	DFT-s-OFDM QPSK	1	1	20.02	20.65	20.18	21.00
		1	131	20.87	20.37	20.12	21.00
		64	32	20.20	20.04	19.99	21.00
		128	0	20.14	20.48	19.96	21.00

	DFT-s-OFDM 16QAM	1	1	19.80	20.90	20.03	21.00
	DFT-s-OFDM 64QAM	1	1	19.76	20.41	19.90	21.00
	DFT-s-OFDM 256QAM	1	1	18.81	19.41	19.19	20.00
	CP-OFDM QPSK	1	1	19.72	20.34	19.95	21.00
	CP-OFDM 16QAM	1	1	19.60	20.26	20.11	21.00
	CP-OFDM 64QAM	1	1	19.80	20.64	19.99	21.00
	CP-OFDM 256QAM	1	1	17.47	18.53	17.67	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503000/2515	507000/2535	511000/2565	
30MHz	DFT-s-OFDM BPSK	1	1	19.76	20.28	19.93	21.00
		1	158	20.50	20.43	19.88	21.00
		80	40	20.13	20.30	20.12	21.00
		160	0	20.08	20.46	19.97	21.00
	DFT-s-OFDM QPSK	1	1	20.00	20.43	19.98	21.00
		1	158	20.41	20.23	20.00	21.00
		80	40	20.08	20.34	20.25	21.00
		160	0	20.16	20.24	20.24	21.00
	DFT-s-OFDM 16QAM	1	1	19.82	20.58	20.07	21.00
	DFT-s-OFDM 64QAM	1	1	19.56	20.45	20.18	21.00
	DFT-s-OFDM 256QAM	1	1	18.79	19.41	19.29	20.00
	CP-OFDM QPSK	1	1	19.66	20.38	20.17	21.00
	CP-OFDM 16QAM	1	1	19.74	20.22	19.97	21.00
	CP-OFDM 64QAM	1	1	20.10	20.46	20.03	21.00
	CP-OFDM 256QAM	1	1	17.37	18.33	17.63	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504000/2600	507000/2535	510000/2570	
40MHz	DFT-s-OFDM BPSK	1	1	19.88	20.34	20.05	21.00
		1	214	20.56	20.27	19.82	21.00
		108	54	20.17	20.28	20.10	21.00
		216	0	20.18	20.30	20.09	21.00
	DFT-s-OFDM QPSK	1	1	19.90	20.45	20.10	21.00
		1	214	20.53	20.31	19.90	21.00
		108	54	20.20	20.24	20.09	21.00
		216	0	20.20	20.24	20.08	21.00
	DFT-s-OFDM 16QAM	1	1	19.80	20.58	19.99	21.00
	DFT-s-OFDM 64QAM	1	1	19.48	20.27	20.00	21.00

	DFT-s-OFDM 256QAM	1	1	18.89	19.35	19.17	20.00
	CP-OFDM QPSK	1	1	19.70	20.28	20.07	21.00
	CP-OFDM 16QAM	1	1	19.62	20.34	20.01	21.00
	CP-OFDM 64QAM	1	1	19.94	20.36	20.01	21.00
	CP-OFDM 256QAM	1	1	17.25	18.23	17.75	19.00
n7							
Hotspot on--Ant4				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	13.65	14.23	14.16	14.70
		1	23	14.41	13.98	13.79	14.70
		12	6	14.19	14.01	13.99	14.70
		25	0	14.16	14.28	13.97	14.70
	DFT-s-OFDM QPSK	1	1	13.88	14.15	14.15	14.70
		1	23	14.49	14.22	13.79	14.70
		12	6	14.09	14.16	13.90	14.70
		25	0	14.12	14.21	14.09	14.70
	DFT-s-OFDM 16QAM	1	1	13.84	14.49	13.90	14.70
	DFT-s-OFDM 64QAM	1	1	13.31	14.28	14.07	14.70
	DFT-s-OFDM 256QAM	1	1	13.70	14.44	14.09	14.70
	CP-OFDM QPSK	1	1	13.65	14.22	14.18	14.70
	CP-OFDM 16QAM	1	1	13.52	14.39	13.76	14.70
	CP-OFDM 64QAM	1	1	13.88	14.24	14.04	14.70
CP-OFDM 256QAM	1	1	13.72	13.92	14.30	14.70	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501000/2505	507000/2535	513000/2565	
10MHz	DFT-s-OFDM BPSK	1	1	13.55	14.51	14.02	14.70
		1	50	14.45	14.20	13.59	14.70
		25	12	13.93	14.41	14.03	14.70
		50	0	14.22	14.24	13.95	14.70
	DFT-s-OFDM QPSK	1	1	13.82	14.25	14.21	14.70
		1	50	14.29	14.54	14.11	14.70
		25	12	14.09	14.44	13.92	14.70
		50	0	14.10	14.33	13.89	14.70
	DFT-s-OFDM 16QAM	1	1	13.82	14.57	14.16	14.70
	DFT-s-OFDM 64QAM	1	1	13.51	14.38	13.91	14.70
	DFT-s-OFDM 256QAM	1	1	14.04	14.52	14.27	14.70

	CP-OFDM QPSK	1	1	13.53	14.30	14.24	14.70
	CP-OFDM 16QAM	1	1	13.28	14.45	13.94	14.70
	CP-OFDM 64QAM	1	1	13.86	14.34	13.88	14.70
	CP-OFDM 256QAM	1	1	13.96	13.82	14.52	14.70
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	13.63	14.25	14.24	14.70
		1	77	14.39	14.10	13.77	14.70
		36	18	14.03	14.19	14.01	14.70
		75	0	14.20	14.28	14.19	14.70
	DFT-s-OFDM QPSK	1	1	13.92	14.37	14.33	14.70
		1	77	14.45	14.34	13.89	14.70
		36	18	14.13	14.16	14.02	14.70
		75	0	14.26	14.45	14.05	14.70
	DFT-s-OFDM 16QAM	1	1	13.74	14.53	13.94	14.70
	DFT-s-OFDM 64QAM	1	1	13.47	14.32	14.13	14.70
	DFT-s-OFDM 256QAM	1	1	13.82	14.32	14.41	14.70
	CP-OFDM QPSK	1	1	13.75	14.38	14.06	14.70
	CP-OFDM 16QAM	1	1	13.42	14.33	13.92	14.70
	CP-OFDM 64QAM	1	1	13.90	14.32	14.08	14.70
	CP-OFDM 256QAM	1	1	13.90	14.18	14.34	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502000/2510	507000/2535	512000/2560	
20MHz	DFT-s-OFDM BPSK	1	1	13.77	14.29	13.96	14.70
		1	104	14.31	14.36	13.93	14.70
		50	25	14.01	14.41	13.99	14.70
		100	0	14.16	14.16	14.17	14.70
	DFT-s-OFDM QPSK	1	1	14.00	14.27	14.23	14.70
		1	104	14.57	14.24	14.01	14.70
		50	25	14.15	14.40	13.98	14.70
		100	0	14.02	14.29	14.11	14.70
	DFT-s-OFDM 16QAM	1	1	13.88	14.13	14.16	14.70
	DFT-s-OFDM 64QAM	1	1	13.45	14.02	13.79	14.70
	DFT-s-OFDM 256QAM	1	1	13.98	14.32	14.47	14.70
	CP-OFDM QPSK	1	1	13.69	14.20	14.06	14.70
	CP-OFDM 16QAM	1	1	13.36	14.33	13.80	14.70
	CP-OFDM 64QAM	1	1	13.94	14.48	13.88	14.70
	CP-OFDM 256QAM	1	1	13.68	13.88	14.40	14.70

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502500/2512.5	507000/2535	511500/2562.5	
25MHz	DFT-s-OFDM BPSK	1	1	13.81	14.21	14.04	14.70
		1	131	14.17	14.26	14.03	14.70
		64	32	13.89	14.23	13.91	14.70
		128	0	14.32	14.32	14.29	14.70
	DFT-s-OFDM QPSK	1	1	13.96	14.35	14.33	14.70
		1	131	14.47	14.14	14.19	14.70
		64	32	14.19	14.36	13.94	14.70
		128	0	13.84	14.11	14.23	14.70
	DFT-s-OFDM 16QAM	1	1	14.10	14.07	14.22	14.70
	DFT-s-OFDM 64QAM	1	1	13.39	14.22	13.85	14.70
	DFT-s-OFDM 256QAM	1	1	13.88	14.52	14.59	14.70
	CP-OFDM QPSK	1	1	13.57	14.42	14.16	14.70
	CP-OFDM 16QAM	1	1	13.52	14.39	14.02	14.70
	CP-OFDM 64QAM	1	1	14.12	14.34	13.76	14.70
	CP-OFDM 256QAM	1	1	13.74	14.08	14.30	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503000/2515	507000/2535	511000/2565	
30MHz	DFT-s-OFDM BPSK	1	1	13.83	14.37	13.96	14.70
		1	158	14.53	14.34	13.91	14.70
		80	40	14.23	14.13	14.17	14.70
		160	0	14.12	14.34	14.07	14.70
	DFT-s-OFDM QPSK	1	1	13.72	14.41	14.29	14.70
		1	158	14.33	14.48	13.93	14.70
		80	40	14.33	14.42	14.02	14.70
		160	0	14.20	14.29	13.99	14.70
	DFT-s-OFDM 16QAM	1	1	13.84	14.22	14.00	14.70
	DFT-s-OFDM 64QAM	1	1	13.37	14.08	13.95	14.70
	DFT-s-OFDM 256QAM	1	1	13.86	14.32	14.39	14.70
	CP-OFDM QPSK	1	1	13.61	14.28	14.34	14.70
	CP-OFDM 16QAM	1	1	13.38	14.17	14.06	14.70
	CP-OFDM 64QAM	1	1	13.82	14.44	14.06	14.70
	CP-OFDM 256QAM	1	1	13.90	13.90	14.46	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504000/2600	507000/2535	510000/2570	
40MHz	DFT-s-OFDM BPSK	1	1	13.71	14.31	14.08	14.70
		1	214	14.43	14.16	13.73	14.70

		108	54	14.11	14.21	14.07	14.70
		216	0	14.14	14.22	14.07	14.70
	DFT-s-OFDM QPSK	1	1	13.82	14.31	14.19	14.70
		1	214	14.39	14.32	13.91	14.70
		108	54	14.15	14.26	14.04	14.70
		216	0	14.16	14.27	14.07	14.70
	DFT-s-OFDM 16QAM	1	1	13.76	14.61	13.98	14.70
	DFT-s-OFDM 64QAM	1	1	13.33	14.20	13.97	14.70
	DFT-s-OFDM 256QAM	1	1	13.84	14.42	14.25	14.70
	CP-OFDM QPSK	1	1	13.67	14.24	14.18	14.70
	CP-OFDM 16QAM	1	1	13.46	14.29	13.88	14.70
	CP-OFDM 64QAM	1	1	13.84	14.32	14.04	14.70
	CP-OFDM 256QAM	1	1	13.74	14.00	14.30	14.70

n66							
Receiver on& Receiver off--Ant0				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	22.34	22.06	21.61	22.80
		1	23	21.85	22.24	21.69	22.80
		12	6	21.93	22.14	21.77	22.80
		25	0	21.72	22.04	21.52	22.80
	DFT-s-OFDM QPSK	1	1	22.19	21.84	21.82	22.80
		1	23	22.07	22.22	21.73	22.80
		12	6	22.10	22.11	21.82	22.80
		25	0	21.77	21.84	21.33	22.80
	DFT-s-OFDM 16QAM	1	1	21.90	21.91	21.87	22.80
	DFT-s-OFDM 64QAM	1	1	21.38	21.44	20.96	22.30
	DFT-s-OFDM 256QAM	1	1	19.65	19.35	18.95	20.80
	CP-OFDM QPSK	1	1	21.94	21.60	21.40	22.80
	CP-OFDM 16QAM	1	1	21.30	20.95	21.06	22.80
	CP-OFDM 64QAM	1	1	20.44	20.26	19.77	20.80
CP-OFDM 256QAM	1	1	17.79	18.02	17.81	18.80	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	22.38	21.98	21.47	22.80
		1	50	22.07	22.30	21.75	22.80
		25	12	22.15	22.22	21.63	22.80

		50	0	21.60	22.10	21.24	22.80
	DFT-s-OFDM QPSK	1	1	22.13	22.00	21.60	22.80
		1	50	22.03	22.06	21.61	22.80
		25	12	21.86	22.17	21.78	22.80
		50	0	21.65	21.78	21.43	22.80
	DFT-s-OFDM 16QAM	1	1	21.88	21.77	21.59	22.80
	DFT-s-OFDM 64QAM	1	1	21.30	21.42	21.10	22.30
	DFT-s-OFDM 256QAM	1	1	19.45	19.29	18.87	20.80
	CP-OFDM QPSK	1	1	21.96	21.46	21.16	22.80
	CP-OFDM 16QAM	1	1	21.26	20.95	21.02	22.80
	CP-OFDM 64QAM	1	1	20.56	20.34	19.61	20.80
	CP-OFDM 256QAM	1	1	17.85	17.88	17.83	18.80
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	22.16	21.98	21.79	22.80
		1	77	21.75	22.24	21.59	22.80
		36	18	21.91	21.88	21.85	22.80
		75	0	21.70	21.96	21.38	22.80
	DFT-s-OFDM QPSK	1	1	22.09	21.94	21.66	22.80
		1	77	22.17	22.24	21.53	22.80
		36	18	21.90	21.89	21.70	22.80
		75	0	21.67	21.94	21.39	22.80
	DFT-s-OFDM 16QAM	1	1	21.86	21.87	21.67	22.80
	DFT-s-OFDM 64QAM	1	1	21.22	21.40	21.04	22.30
	DFT-s-OFDM 256QAM	1	1	19.73	19.55	19.05	20.80
	CP-OFDM QPSK	1	1	22.18	21.66	21.16	22.80
	CP-OFDM 16QAM	1	1	21.30	20.83	21.26	22.80
	CP-OFDM 64QAM	1	1	20.52	20.22	19.67	20.80
	CP-OFDM 256QAM	1	1	17.67	18.24	17.71	18.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	22.18	21.96	21.63	22.80
		1	104	21.87	22.14	21.59	22.80
		50	25	21.99	22.00	21.67	22.80
		100	0	21.70	21.88	21.36	22.80
	DFT-s-OFDM QPSK	1	1	22.13	21.92	21.68	22.80
		1	104	22.13	22.08	21.65	22.80
		50	25	22.02	21.97	21.68	22.80

		100	0	21.75	21.84	21.37	22.80
	DFT-s-OFDM 16QAM	1	1	21.92	21.75	21.71	22.80
	DFT-s-OFDM 64QAM	1	1	21.32	21.32	20.92	22.30
	DFT-s-OFDM 256QAM	1	1	19.59	19.45	18.87	20.80
	CP-OFDM QPSK	1	1	22.04	21.50	21.26	22.80
	CP-OFDM 16QAM	1	1	21.24	20.89	21.16	22.80
	CP-OFDM 64QAM	1	1	20.48	20.16	19.79	20.80
	CP-OFDM 256QAM	1	1	17.77	18.06	17.77	18.80
n66							
Hotspot on--Ant0				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	19.47	19.58	19.04	20.40
		1	23	19.41	19.55	19.22	20.40
		12	6	19.56	19.57	19.23	20.40
		25	0	19.50	19.75	19.15	20.40
	DFT-s-OFDM QPSK	1	1	19.66	19.39	19.24	20.40
		1	23	19.84	19.66	19.35	20.40
		12	6	19.52	19.63	19.22	20.40
		25	0	19.41	19.61	19.29	20.40
	DFT-s-OFDM 16QAM	1	1	19.41	19.46	19.18	20.40
	DFT-s-OFDM 64QAM	1	1	19.69	19.64	19.09	20.40
	DFT-s-OFDM 256QAM	1	1	18.70	18.43	17.91	19.40
	CP-OFDM QPSK	1	1	19.58	19.31	18.97	20.40
	CP-OFDM 16QAM	1	1	19.61	19.20	19.36	20.40
	CP-OFDM 64QAM	1	1	19.48	19.22	18.85	20.40
	CP-OFDM 256QAM	1	1	17.00	17.06	16.97	18.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	19.59	19.74	19.22	20.40
		1	50	19.45	19.91	19.30	20.40
		25	12	19.64	19.51	19.27	20.40
		50	0	19.46	19.69	19.43	20.40
	DFT-s-OFDM QPSK	1	1	19.78	19.51	19.48	20.40
		1	50	19.70	19.60	19.31	20.40
		25	12	19.62	19.63	19.34	20.40
		50	0	19.55	19.57	19.17	20.40

	DFT-s-OFDM 16QAM	1	1	19.73	19.40	19.38	20.40
	DFT-s-OFDM 64QAM	1	1	19.83	19.60	19.31	20.40
	DFT-s-OFDM 256QAM	1	1	18.68	18.61	17.99	19.40
	CP-OFDM QPSK	1	1	19.78	19.21	19.17	20.40
	CP-OFDM 16QAM	1	1	19.59	19.40	19.26	20.40
	CP-OFDM 64QAM	1	1	19.66	19.22	19.03	20.40
	CP-OFDM 256QAM	1	1	16.80	16.94	16.99	18.40
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	19.43	19.60	19.30	20.40
		1	77	19.53	19.91	19.36	20.40
		36	18	19.70	19.61	19.29	20.40
		75	0	19.46	19.85	19.31	20.40
	DFT-s-OFDM QPSK	1	1	19.90	19.59	19.30	20.40
		1	77	19.64	19.68	19.19	20.40
		36	18	19.54	19.63	19.26	20.40
		75	0	19.49	19.69	19.19	20.40
	DFT-s-OFDM 16QAM	1	1	19.61	19.60	19.46	20.40
	DFT-s-OFDM 64QAM	1	1	19.63	19.58	19.39	20.40
	DFT-s-OFDM 256QAM	1	1	18.66	18.63	17.97	19.40
	CP-OFDM QPSK	1	1	19.66	19.53	19.33	20.40
	CP-OFDM 16QAM	1	1	19.71	19.18	19.56	20.40
	CP-OFDM 64QAM	1	1	19.58	19.44	18.81	20.40
	CP-OFDM 256QAM	1	1	16.80	17.08	16.87	18.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	19.55	19.64	19.22	20.40
		1	104	19.57	19.75	19.26	20.40
		50	25	19.56	19.61	19.27	20.40
		100	0	19.50	19.69	19.21	20.40
	DFT-s-OFDM QPSK	1	1	19.76	19.59	19.26	20.40
		1	104	19.74	19.66	19.27	20.40
		50	25	19.62	19.73	19.28	20.40
		100	0	19.49	19.71	19.19	20.40
	DFT-s-OFDM 16QAM	1	1	19.53	19.54	19.28	20.40
	DFT-s-OFDM 64QAM	1	1	19.69	19.64	19.29	20.40

	DFT-s-OFDM 256QAM	1	1	18.72	18.57	17.97	19.40
	CP-OFDM QPSK	1	1	19.70	19.35	19.15	20.40
	CP-OFDM 16QAM	1	1	19.55	19.20	19.40	20.40
	CP-OFDM 64QAM	1	1	19.58	19.26	18.89	20.40
	CP-OFDM 256QAM	1	1	16.90	17.12	16.87	18.40
n66							
Receiver on--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	17.70	16.95	16.49	18.00
		1	23	16.94	17.07	16.70	18.00
		12	6	17.36	17.27	16.87	18.00
		25	0	17.00	17.29	16.64	18.00
	DFT-s-OFDM QPSK	1	1	17.63	17.03	16.52	18.00
		1	23	17.02	17.17	16.99	18.00
		12	6	17.03	17.16	16.93	18.00
		25	0	17.05	17.28	16.90	18.00
	DFT-s-OFDM 16QAM	1	1	17.47	16.97	16.77	18.00
	DFT-s-OFDM 64QAM	1	1	17.29	17.11	16.51	18.00
	DFT-s-OFDM 256QAM	1	1	17.80	17.14	16.70	18.00
	CP-OFDM QPSK	1	1	17.48	16.97	16.56	18.00
	CP-OFDM 16QAM	1	1	17.50	16.82	16.57	18.00
	CP-OFDM 64QAM	1	1	17.46	16.83	16.52	18.00
CP-OFDM 256QAM	1	1	17.66	17.34	16.85	18.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	17.44	17.19	16.61	18.00
		1	50	16.84	17.41	16.74	18.00
		25	12	17.20	17.47	17.09	18.00
		50	0	17.12	17.15	16.80	18.00
	DFT-s-OFDM QPSK	1	1	17.59	17.39	16.70	18.00
		1	50	16.82	17.27	16.93	18.00
		25	12	17.33	17.44	16.77	18.00
		50	0	17.25	17.34	16.86	18.00
	DFT-s-OFDM 16QAM	1	1	17.83	16.89	16.63	18.00
	DFT-s-OFDM 64QAM	1	1	17.53	17.25	16.43	18.00
	DFT-s-OFDM 256QAM	1	1	17.74	17.16	16.68	18.00

	CP-OFDM QPSK	1	1	17.68	17.23	16.84	18.00
	CP-OFDM 16QAM	1	1	17.36	17.08	16.61	18.00
	CP-OFDM 64QAM	1	1	17.54	17.21	16.90	18.00
	CP-OFDM 256QAM	1	1	17.78	17.06	16.99	18.00
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	17.78	17.07	16.79	18.00
		1	77	17.12	17.29	16.72	18.00
		36	18	17.30	17.23	16.85	18.00
		75	0	17.36	17.19	17.00	18.00
	DFT-s-OFDM QPSK	1	1	17.67	17.37	16.70	18.00
		1	77	16.90	17.09	17.03	18.00
		36	18	17.19	17.46	17.05	18.00
		75	0	17.15	17.08	16.70	18.00
	DFT-s-OFDM 16QAM	1	1	17.71	16.97	16.79	18.00
	DFT-s-OFDM 64QAM	1	1	17.25	17.37	16.73	18.00
	DFT-s-OFDM 256QAM	1	1	17.70	17.24	16.66	18.00
	CP-OFDM QPSK	1	1	17.74	17.23	16.86	18.00
	CP-OFDM 16QAM	1	1	17.58	17.02	16.77	18.00
	CP-OFDM 64QAM	1	1	17.54	17.19	16.84	18.00
	CP-OFDM 256QAM	1	1	17.64	17.20	17.05	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	17.62	17.05	16.65	18.00
		1	104	16.94	17.21	16.84	18.00
		50	25	17.28	17.33	16.91	18.00
		100	0	17.20	17.31	16.82	18.00
	DFT-s-OFDM QPSK	1	1	17.63	17.21	16.66	18.00
		1	104	16.94	17.19	16.93	18.00
		50	25	17.15	17.42	16.87	18.00
		100	0	17.21	17.18	16.82	18.00
	DFT-s-OFDM 16QAM	1	1	17.67	16.91	16.75	18.00
	DFT-s-OFDM 64QAM	1	1	17.37	17.29	16.59	18.00
	DFT-s-OFDM 256QAM	1	1	17.80	17.24	16.60	18.00
	CP-OFDM QPSK	1	1	17.58	17.13	16.68	18.00
	CP-OFDM 16QAM	1	1	17.48	16.88	16.63	18.00
	CP-OFDM 64QAM	1	1	17.52	17.01	16.72	18.00
	CP-OFDM 256QAM	1	1	17.60	17.24	17.01	18.00

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Receiver off--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	20.97	20.76	20.00	21.70
		1	23	20.34	20.68	20.26	21.70
		12	6	20.77	20.96	20.50	21.70
		25	0	20.58	20.84	20.27	21.70
	DFT-s-OFDM QPSK	1	1	21.00	20.77	19.98	21.70
		1	23	20.42	20.56	20.33	21.70
		12	6	20.72	20.66	20.29	21.70
		25	0	20.51	20.62	20.42	21.70
	DFT-s-OFDM 16QAM	1	1	21.18	20.28	20.30	21.70
	DFT-s-OFDM 64QAM	1	1	20.94	20.64	20.18	21.70
	DFT-s-OFDM 256QAM	1	1	19.94	19.70	19.02	20.70
	CP-OFDM QPSK	1	1	20.89	20.54	20.28	21.70
	CP-OFDM 16QAM	1	1	20.92	20.42	19.82	21.70
	CP-OFDM 64QAM	1	1	20.56	20.33	20.11	21.70
CP-OFDM 256QAM	1	1	18.69	17.91	18.13	19.70	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	21.07	20.62	20.36	21.70
		1	50	20.30	20.68	20.54	21.70
		25	12	20.53	21.02	20.46	21.70
		50	0	20.82	20.84	20.37	21.70
	DFT-s-OFDM QPSK	1	1	21.04	20.61	20.02	21.70
		1	50	20.28	20.68	20.63	21.70
		25	12	20.78	20.68	20.37	21.70
		50	0	20.75	20.76	20.58	21.70
	DFT-s-OFDM 16QAM	1	1	21.12	20.36	20.18	21.70
	DFT-s-OFDM 64QAM	1	1	20.78	20.84	19.96	21.70
	DFT-s-OFDM 256QAM	1	1	20.14	19.70	18.92	20.70
	CP-OFDM QPSK	1	1	21.27	20.68	20.02	21.70
	CP-OFDM 16QAM	1	1	21.00	20.34	20.02	21.70
	CP-OFDM 64QAM	1	1	20.88	20.49	20.17	21.70
	CP-OFDM 256QAM	1	1	18.69	18.11	18.25	19.70
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	21.29	20.74	20.30	21.70
		1	77	20.46	20.70	20.46	21.70
		36	18	20.75	20.82	20.32	21.70
		75	0	20.84	20.72	20.45	21.70
	DFT-s-OFDM QPSK	1	1	21.08	20.87	20.28	21.70
		1	77	20.40	20.66	20.31	21.70
		36	18	20.66	20.90	20.49	21.70
		75	0	20.61	20.68	20.46	21.70
	DFT-s-OFDM 16QAM	1	1	21.06	20.50	20.12	21.70
	DFT-s-OFDM 64QAM	1	1	20.88	20.86	20.14	21.70
	DFT-s-OFDM 256QAM	1	1	19.96	19.68	18.90	20.70
	CP-OFDM QPSK	1	1	21.07	20.80	20.24	21.70
CP-OFDM 16QAM	1	1	20.90	20.64	20.00	21.70	
CP-OFDM 64QAM	1	1	20.72	20.45	20.13	21.70	
CP-OFDM 256QAM	1	1	18.87	18.03	18.29	19.70	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	21.13	20.76	20.14	21.70
		1	104	20.42	20.64	20.44	21.70
		50	25	20.71	20.88	20.40	21.70
		100	0	20.72	20.76	20.37	21.70
	DFT-s-OFDM QPSK	1	1	21.18	20.75	20.18	21.70
		1	104	20.46	20.68	20.43	21.70
		50	25	20.76	20.78	20.39	21.70
		100	0	20.71	20.72	20.36	21.70
	DFT-s-OFDM 16QAM	1	1	21.12	20.40	20.22	21.70
	DFT-s-OFDM 64QAM	1	1	20.90	20.78	20.14	21.70
	DFT-s-OFDM 256QAM	1	1	20.08	19.64	19.02	20.70
	CP-OFDM QPSK	1	1	21.05	20.68	20.20	21.70
	CP-OFDM 16QAM	1	1	20.94	20.50	19.90	21.70
	CP-OFDM 64QAM	1	1	20.74	20.41	20.05	21.70
	CP-OFDM 256QAM	1	1	18.75	18.11	18.11	19.70
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Hotspot on--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	15.57	15.12	14.52	16.00
		1	23	14.99	14.88	14.75	16.00

		12	6	15.07	15.09	14.78	16.00
		25	0	15.04	15.08	14.81	16.00
	DFT-s-OFDM QPSK	1	1	15.45	15.04	14.43	16.00
		1	23	14.82	15.24	14.69	16.00
		12	6	14.97	15.27	14.62	16.00
		25	0	15.10	15.05	14.55	16.00
	DFT-s-OFDM 16QAM	1	1	15.37	14.75	14.75	16.00
	DFT-s-OFDM 64QAM	1	1	15.25	15.04	14.44	16.00
	DFT-s-OFDM 256QAM	1	1	15.58	15.03	14.57	16.00
	CP-OFDM QPSK	1	1	15.34	14.58	14.55	16.00
	CP-OFDM 16QAM	1	1	15.39	14.75	14.62	16.00
	CP-OFDM 64QAM	1	1	15.55	14.85	14.54	16.00
	CP-OFDM 256QAM	1	1	15.38	15.14	14.72	16.00
	Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)		
343000/1715					349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	15.41	15.30	14.64	16.00
		1	50	14.91	14.88	14.95	16.00
		25	12	15.05	15.29	14.56	16.00
		50	0	15.04	15.18	14.75	16.00
	DFT-s-OFDM QPSK	1	1	15.41	15.16	14.55	16.00
		1	50	15.02	15.06	14.97	16.00
		25	12	15.31	15.17	14.94	16.00
		50	0	15.10	15.05	14.97	16.00
	DFT-s-OFDM 16QAM	1	1	15.55	14.99	14.77	16.00
	DFT-s-OFDM 64QAM	1	1	15.41	15.20	14.68	16.00
	DFT-s-OFDM 256QAM	1	1	15.60	15.11	14.69	16.00
	CP-OFDM QPSK	1	1	15.66	14.92	14.49	16.00
	CP-OFDM 16QAM	1	1	15.43	14.97	14.60	16.00
	CP-OFDM 64QAM	1	1	15.53	14.81	14.60	16.00
CP-OFDM 256QAM	1	1	15.52	15.36	14.76	16.00	
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	15.57	15.14	14.50	16.00
		1	77	14.81	14.96	15.01	16.00
		36	18	15.33	15.29	14.84	16.00
		75	0	15.08	15.12	14.69	16.00
	DFT-s-OFDM QPSK	1	1	15.45	15.18	14.57	16.00
		1	77	15.00	15.22	14.81	16.00

		36	18	15.25	15.33	14.84	16.00
		75	0	15.26	15.25	14.65	16.00
	DFT-s-OFDM 16QAM	1	1	15.53	15.03	14.77	16.00
	DFT-s-OFDM 64QAM	1	1	15.41	15.16	14.50	16.00
	DFT-s-OFDM 256QAM	1	1	15.70	15.25	14.63	16.00
	CP-OFDM QPSK	1	1	15.58	14.60	14.65	16.00
	CP-OFDM 16QAM	1	1	15.47	14.81	14.76	16.00
	CP-OFDM 64QAM	1	1	15.51	15.01	14.60	16.00
	CP-OFDM 256QAM	1	1	15.22	15.28	14.82	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	15.53	15.10	14.52	16.00
		1	104	14.89	15.04	14.83	16.00
		50	25	15.17	15.25	14.74	16.00
		100	0	15.18	15.14	14.77	16.00
	DFT-s-OFDM QPSK	1	1	15.53	15.18	14.57	16.00
		1	104	14.86	15.18	14.85	16.00
		50	25	15.17	15.27	14.76	16.00
		100	0	15.14	15.15	14.75	16.00
	DFT-s-OFDM 16QAM	1	1	15.57	14.91	14.67	16.00
	DFT-s-OFDM 64QAM	1	1	15.25	15.20	14.50	16.00
	DFT-s-OFDM 256QAM	1	1	15.78	15.17	14.49	16.00
	CP-OFDM QPSK	1	1	15.50	14.72	14.63	16.00
	CP-OFDM 16QAM	1	1	15.41	14.79	14.72	16.00
	CP-OFDM 64QAM	1	1	15.47	14.93	14.70	16.00
	CP-OFDM 256QAM	1	1	15.32	15.16	14.64	16.00

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Receiver on& Receiver off--Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	21.10	20.95	20.46	21.20
		1	22	20.42	20.31	20.14	21.20
		12	6	20.36	20.16	20.08	21.20
		24	0	20.08	19.86	19.79	21.20
	DFT-s-OFDM QPSK	1	1	20.64	20.74	20.70	21.20
		1	22	20.06	20.22	20.29	21.20
		12	6	20.04	20.32	20.09	21.20

		24	0	19.49	19.95	20.01	21.20
	DFT-s-OFDM 16QAM	1	1	20.92	20.66	20.64	21.20
	DFT-s-OFDM 64QAM	1	1	19.57	19.46	19.55	20.20
	DFT-s-OFDM 256QAM	1	1	17.89	17.71	17.45	19.20
	CP-OFDM QPSK	1	1	20.19	20.24	19.96	21.20
	CP-OFDM 16QAM	1	1	20.28	19.29	19.93	20.70
	CP-OFDM 64QAM	1	1	18.95	18.88	18.48	20.20
	CP-OFDM 256QAM	1	1	16.46	16.40	16.53	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	20.92	20.87	20.46	21.20
		1	36	20.24	20.27	20.04	21.20
		18	9	20.18	20.26	20.12	21.20
		36	0	20.04	19.92	19.73	21.20
	DFT-s-OFDM QPSK	1	1	20.72	20.68	20.60	21.20
		1	36	20.16	20.18	20.19	21.20
		18	9	20.10	20.34	20.15	21.20
		36	0	19.51	19.93	19.91	21.20
	DFT-s-OFDM 16QAM	1	1	20.86	20.56	20.58	21.20
	DFT-s-OFDM 64QAM	1	1	19.63	19.42	19.67	20.20
	DFT-s-OFDM 256QAM	1	1	17.93	17.83	17.51	19.20
	CP-OFDM QPSK	1	1	20.31	20.24	19.96	21.20
	CP-OFDM 16QAM	1	1	20.14	19.39	19.79	20.70
	CP-OFDM 64QAM	1	1	18.83	18.70	18.44	20.20
	CP-OFDM 256QAM	1	1	16.42	16.28	16.47	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	20.82	20.73	20.50	21.20
		1	49	20.38	20.25	20.16	21.20
		25	12	20.44	20.16	20.30	21.20
		50	0	20.06	20.00	20.05	21.20
	DFT-s-OFDM QPSK	1	1	20.76	20.92	20.52	21.20
		1	49	20.42	20.26	20.15	21.20
		25	12	20.50	20.48	20.35	21.20
		50	0	19.41	20.07	19.83	21.20
	DFT-s-OFDM 16QAM	1	1	20.72	20.56	20.68	21.20

	DFT-s-OFDM 64QAM	1	1	19.69	19.72	19.57	20.20
	DFT-s-OFDM 256QAM	1	1	18.21	17.63	17.47	19.20
	CP-OFDM QPSK	1	1	20.33	20.22	20.22	21.20
	CP-OFDM 16QAM	1	1	19.98	19.23	19.69	20.70
	CP-OFDM 64QAM	1	1	19.19	18.94	18.46	20.20
	CP-OFDM 256QAM	1	1	16.74	16.60	16.33	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	20.72	20.79	20.80	21.20
		1	76	20.40	20.21	20.12	21.20
		36	18	20.32	20.34	20.24	21.20
		75	0	20.14	19.94	19.97	21.20
	DFT-s-OFDM QPSK	1	1	21.04	20.84	20.62	21.20
		1	76	20.10	20.44	20.39	21.20
		36	18	20.28	20.30	20.37	21.20
		75	0	19.71	19.89	19.93	21.20
	DFT-s-OFDM 16QAM	1	1	20.94	20.70	20.68	21.20
	DFT-s-OFDM 64QAM	1	1	19.93	19.52	19.79	20.20
	DFT-s-OFDM 256QAM	1	1	17.99	17.69	17.59	19.20
	CP-OFDM QPSK	1	1	20.59	20.34	20.16	21.20
	CP-OFDM 16QAM	1	1	20.06	19.43	19.73	20.70
	CP-OFDM 64QAM	1	1	18.87	18.94	18.50	20.20
	CP-OFDM 256QAM	1	1	16.70	16.44	16.31	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	20.82	20.81	20.66	21.20
		1	104	20.30	20.25	20.24	21.20
		50	25	20.30	20.24	20.20	21.20
		100	0	19.98	19.98	19.85	21.20
	DFT-s-OFDM QPSK	1	1	20.86	20.80	20.58	21.20
		1	104	20.22	20.30	20.21	21.20
		50	25	20.30	20.28	20.25	21.20
		100	0	19.53	19.99	19.87	21.20
	DFT-s-OFDM 16QAM	1	1	20.82	20.68	20.54	21.20
	DFT-s-OFDM 64QAM	1	1	19.77	19.60	19.69	20.20
	DFT-s-OFDM 256QAM	1	1	18.03	17.79	17.61	19.20

	CP-OFDM QPSK	1	1	20.43	20.18	20.10	21.20
	CP-OFDM 16QAM	1	1	20.08	19.39	19.71	20.70
	CP-OFDM 64QAM	1	1	18.97	18.90	18.62	20.20
	CP-OFDM 256QAM	1	1	16.62	16.48	16.37	17.70
n38							
Hotspot on--Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	18.81	18.91	19.00	19.70
		1	22	18.59	18.55	18.52	19.70
		12	6	18.59	18.54	18.41	19.70
		24	0	18.53	18.72	18.71	19.70
	DFT-s-OFDM QPSK	1	1	19.05	19.06	18.97	19.70
		1	22	18.71	18.54	18.65	19.70
		12	6	18.49	18.55	18.52	19.70
		24	0	18.84	18.88	18.74	19.70
	DFT-s-OFDM 16QAM	1	1	19.12	18.78	18.79	19.70
	DFT-s-OFDM 64QAM	1	1	18.95	18.70	18.63	19.70
	DFT-s-OFDM 256QAM	1	1	17.58	17.41	18.26	19.20
	CP-OFDM QPSK	1	1	19.07	18.80	18.90	19.70
	CP-OFDM 16QAM	1	1	19.06	18.66	18.80	19.70
	CP-OFDM 64QAM	1	1	18.38	18.40	17.98	19.70
CP-OFDM 256QAM	1	1	16.06	15.84	15.86	17.70	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	18.91	18.95	18.94	19.70
		1	36	18.57	18.55	18.50	19.70
		18	9	18.53	18.52	18.35	19.70
		36	0	18.61	18.64	18.59	19.70
	DFT-s-OFDM QPSK	1	1	19.01	18.94	18.93	19.70
		1	36	18.59	18.46	18.55	19.70
		18	9	18.53	18.57	18.52	19.70
		36	0	18.82	18.76	18.66	19.70
	DFT-s-OFDM 16QAM	1	1	18.96	18.78	18.63	19.70
	DFT-s-OFDM 64QAM	1	1	18.91	18.64	18.71	19.70
	DFT-s-OFDM 256QAM	1	1	17.60	17.43	18.20	19.20
	CP-OFDM QPSK	1	1	18.95	18.74	18.92	19.70
	CP-OFDM 16QAM	1	1	19.10	18.56	18.90	19.70

	CP-OFDM 64QAM	1	1	18.50	18.50	17.96	19.70
	CP-OFDM 256QAM	1	1	16.12	15.94	15.76	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	19.27	18.83	18.80	19.70
		1	49	18.85	18.85	18.60	19.70
		25	12	18.79	18.48	18.47	19.70
		50	0	18.73	18.80	18.39	19.70
	DFT-s-OFDM QPSK	1	1	19.01	19.22	18.79	19.70
		1	49	18.43	18.86	18.55	19.70
		25	12	18.65	18.73	18.60	19.70
		50	0	18.74	18.74	18.70	19.70
	DFT-s-OFDM 16QAM	1	1	18.96	18.96	18.63	19.70
	DFT-s-OFDM 64QAM	1	1	18.97	18.66	19.09	19.70
	DFT-s-OFDM 256QAM	1	1	17.60	17.65	18.14	19.20
	CP-OFDM QPSK	1	1	19.07	18.94	18.98	19.70
	CP-OFDM 16QAM	1	1	19.38	18.56	18.88	19.70
	CP-OFDM 64QAM	1	1	18.36	18.62	18.08	19.70
	CP-OFDM 256QAM	1	1	15.96	16.08	15.78	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	19.03	19.07	18.88	19.70
		1	76	18.73	18.65	18.74	19.70
		36	18	18.57	18.74	18.51	19.70
		75	0	18.73	18.80	18.69	19.70
	DFT-s-OFDM QPSK	1	1	18.99	18.98	18.73	19.70
		1	76	18.65	18.64	18.57	19.70
		36	18	18.53	18.65	18.44	19.70
		75	0	18.84	18.68	18.78	19.70
	DFT-s-OFDM 16QAM	1	1	19.18	18.96	18.71	19.70
	DFT-s-OFDM 64QAM	1	1	19.09	18.84	19.03	19.70
	DFT-s-OFDM 256QAM	1	1	17.40	17.53	18.32	19.20
	CP-OFDM QPSK	1	1	19.17	18.88	18.96	19.70
	CP-OFDM 16QAM	1	1	19.32	18.60	18.92	19.70
	CP-OFDM 64QAM	1	1	18.42	18.44	18.30	19.70
	CP-OFDM 256QAM	1	1	16.30	16.14	16.08	17.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	

40MHz	DFT-s-OFDM BPSK	1	1	19.11	18.95	18.86	19.70
		1	104	18.67	18.65	18.62	19.70
		50	25	18.61	18.56	18.45	19.70
		100	0	18.75	18.66	18.57	19.70
	DFT-s-OFDM QPSK	1	1	19.09	19.06	18.83	19.70
		1	104	18.57	18.64	18.55	19.70
		50	25	18.82	18.53	18.50	19.70
		100	0	18.74	18.72	18.64	19.70
	DFT-s-OFDM 16QAM	1	1	19.04	18.88	18.77	19.70
	DFT-s-OFDM 64QAM	1	1	19.05	18.80	18.89	19.70
	DFT-s-OFDM 256QAM	1	1	17.52	17.63	18.14	19.20
	CP-OFDM QPSK	1	1	19.11	18.92	18.82	19.70
	CP-OFDM 16QAM	1	1	19.30	18.60	18.90	19.70
CP-OFDM 64QAM	1	1	18.46	18.44	18.12	19.70	
CP-OFDM 256QAM	1	1	16.12	15.98	15.90	17.70	
n38							
Receiver on--Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	15.97	15.80	15.72	17.00
		1	22	15.97	15.61	15.74	17.00
		12	6	15.65	15.48	15.55	17.00
		24	0	15.90	15.76	15.87	17.00
	DFT-s-OFDM QPSK	1	1	15.56	15.81	15.90	17.00
		1	22	16.09	16.09	16.02	17.00
		12	6	15.52	16.08	15.63	17.00
		24	0	15.69	15.95	15.83	17.00
	DFT-s-OFDM 16QAM	1	1	16.12	15.90	15.70	17.00
	DFT-s-OFDM 64QAM	1	1	15.77	15.84	15.39	17.00
	DFT-s-OFDM 256QAM	1	1	15.59	15.79	15.80	17.00
	CP-OFDM QPSK	1	1	15.70	15.70	15.85	17.00
	CP-OFDM 16QAM	1	1	15.56	15.79	15.51	17.00
	CP-OFDM 64QAM	1	1	15.86	15.49	15.81	17.00
CP-OFDM 256QAM	1	1	15.36	15.14	15.19	17.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	15.87	15.64	15.64	17.00
		1	36	15.89	15.75	15.84	17.00

		18	9	15.55	15.64	15.73	17.00
		36	0	15.80	15.64	15.83	17.00
	DFT-s-OFDM QPSK	1	1	15.74	15.75	15.68	17.00
		1	36	15.91	15.87	16.08	17.00
		18	9	15.62	15.92	15.77	17.00
		36	0	15.57	15.81	15.87	17.00
	DFT-s-OFDM 16QAM	1	1	16.06	15.68	15.82	17.00
	DFT-s-OFDM 64QAM	1	1	15.89	15.70	15.31	17.00
	DFT-s-OFDM 256QAM	1	1	15.67	15.61	15.78	17.00
	CP-OFDM QPSK	1	1	15.78	15.60	15.73	17.00
	CP-OFDM 16QAM	1	1	15.72	15.59	15.59	17.00
	CP-OFDM 64QAM	1	1	15.92	15.47	15.63	17.00
	CP-OFDM 256QAM	1	1	15.44	15.26	15.05	17.00
	Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)		
516000/2580					519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	15.75	15.90	15.88	17.00
		1	49	15.71	15.95	16.20	17.00
		25	12	15.63	15.72	15.75	17.00
		50	0	15.94	15.88	15.61	17.00
	DFT-s-OFDM QPSK	1	1	15.80	15.97	15.70	17.00
		1	49	15.95	16.15	16.20	17.00
		25	12	15.94	15.86	15.95	17.00
		50	0	15.77	16.01	15.61	17.00
	DFT-s-OFDM 16QAM	1	1	15.92	15.68	15.70	17.00
	DFT-s-OFDM 64QAM	1	1	15.71	15.70	15.27	17.00
	DFT-s-OFDM 256QAM	1	1	15.67	15.69	15.62	17.00
	CP-OFDM QPSK	1	1	16.02	15.88	15.85	17.00
	CP-OFDM 16QAM	1	1	15.94	15.59	15.85	17.00
	CP-OFDM 64QAM	1	1	16.12	15.59	15.67	17.00
CP-OFDM 256QAM	1	1	15.42	15.10	15.17	17.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	15.81	15.96	15.80	17.00
		1	76	15.77	15.83	16.18	17.00
		36	18	15.73	15.94	15.69	17.00
		75	0	15.72	15.72	15.91	17.00
	DFT-s-OFDM QPSK	1	1	16.10	15.95	15.90	17.00
		1	76	15.77	15.99	16.04	17.00

		36	18	15.64	15.90	15.93	17.00
		75	0	15.93	15.81	15.79	17.00
	DFT-s-OFDM 16QAM	1	1	16.18	15.82	15.90	17.00
	DFT-s-OFDM 64QAM	1	1	15.85	15.82	15.55	17.00
	DFT-s-OFDM 256QAM	1	1	15.69	15.79	15.84	17.00
	CP-OFDM QPSK	1	1	15.96	15.88	15.61	17.00
	CP-OFDM 16QAM	1	1	16.10	15.81	15.71	17.00
	CP-OFDM 64QAM	1	1	15.80	15.61	15.53	17.00
	CP-OFDM 256QAM	1	1	15.44	15.24	15.21	17.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	15.89	15.84	15.76	17.00
		1	104	15.83	15.87	16.02	17.00
		50	25	15.69	15.84	15.77	17.00
		100	0	15.74	15.82	15.79	17.00
	DFT-s-OFDM QPSK	1	1	15.92	15.87	15.78	17.00
		1	104	15.89	16.05	16.04	17.00
		50	25	15.72	15.82	15.77	17.00
		100	0	15.75	15.85	15.79	17.00
	DFT-s-OFDM 16QAM	1	1	16.04	15.72	15.80	17.00
	DFT-s-OFDM 64QAM	1	1	15.83	15.82	15.45	17.00
	DFT-s-OFDM 256QAM	1	1	15.75	15.65	15.72	17.00
	CP-OFDM QPSK	1	1	15.80	15.70	15.73	17.00
	CP-OFDM 16QAM	1	1	15.92	15.69	15.77	17.00
	CP-OFDM 64QAM	1	1	15.92	15.61	15.59	17.00
	CP-OFDM 256QAM	1	1	15.38	15.14	15.09	17.00
n38							
Receiver off--Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	17.60	17.79	17.57	18.70
		1	22	17.93	18.11	17.85	18.70
		12	6	17.68	17.84	17.73	18.70
		24	0	17.55	17.75	18.02	18.70
	DFT-s-OFDM QPSK	1	1	17.59	18.04	17.72	18.70
		1	22	18.21	17.98	18.24	18.70
		12	6	17.85	17.69	17.75	18.70
		24	0	17.73	17.60	17.78	18.70

	DFT-s-OFDM 16QAM	1	1	17.95	17.69	18.00	18.70
	DFT-s-OFDM 64QAM	1	1	17.96	17.78	17.41	18.70
	DFT-s-OFDM 256QAM	1	1	16.54	16.60	16.51	17.70
	CP-OFDM QPSK	1	1	17.58	17.79	17.50	18.70
	CP-OFDM 16QAM	1	1	17.92	17.42	17.63	18.70
	CP-OFDM 64QAM	1	1	17.73	17.08	17.30	18.70
	CP-OFDM 256QAM	1	1	15.33	14.94	15.04	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	17.68	17.69	17.69	18.70
		1	36	17.91	18.15	17.95	18.70
		18	9	17.58	17.80	17.65	18.70
		36	0	17.65	17.79	17.88	18.70
	DFT-s-OFDM QPSK	1	1	17.69	17.92	17.56	18.70
		1	36	18.03	17.96	18.16	18.70
		18	9	17.79	17.75	17.71	18.70
		36	0	17.85	17.72	17.64	18.70
	DFT-s-OFDM 16QAM	1	1	18.01	17.79	17.86	18.70
	DFT-s-OFDM 64QAM	1	1	17.82	17.80	17.25	18.70
	DFT-s-OFDM 256QAM	1	1	16.48	16.42	16.47	17.70
		1	1	17.70	17.65	17.62	18.70
	CP-OFDM 16QAM	1	1	18.02	17.50	17.59	18.70
	CP-OFDM 64QAM	1	1	17.71	17.18	17.28	18.70
	CP-OFDM 256QAM	1	1	15.29	14.90	14.98	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	17.96	17.93	17.51	18.70
		1	49	18.19	17.97	18.17	18.70
		25	12	17.70	17.82	17.95	18.70
		50	0	17.99	17.77	18.14	18.70
	DFT-s-OFDM QPSK	1	1	17.97	17.90	17.92	18.70
		1	49	18.05	18.14	18.28	18.70
		25	12	17.81	17.95	17.69	18.70
		50	0	17.99	17.80	18.04	18.70
	DFT-s-OFDM 16QAM	1	1	17.89	17.65	17.76	18.70
	DFT-s-OFDM 64QAM	1	1	17.96	17.62	17.55	18.70

	DFT-s-OFDM 256QAM	1	1	16.46	16.34	16.51	17.70
	CP-OFDM QPSK	1	1	17.60	17.47	17.74	18.70
	CP-OFDM 16QAM	1	1	17.98	17.56	17.85	18.70
	CP-OFDM 64QAM	1	1	17.57	17.30	17.52	18.70
	CP-OFDM 256QAM	1	1	15.53	15.04	15.16	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	17.70	17.99	17.79	18.70
		1	76	18.19	18.03	18.09	18.70
		36	18	17.88	17.90	17.97	18.70
		75	0	17.91	17.97	17.84	18.70
	DFT-s-OFDM QPSK	1	1	18.07	17.82	17.80	18.70
		1	76	17.99	18.06	18.18	18.70
		36	18	17.79	17.75	17.67	18.70
		75	0	17.77	17.72	17.90	18.70
	DFT-s-OFDM 16QAM	1	1	17.97	17.81	17.76	18.70
	DFT-s-OFDM 64QAM	1	1	17.92	17.80	17.29	18.70
	DFT-s-OFDM 256QAM	1	1	16.50	16.54	16.31	17.70
	CP-OFDM QPSK	1	1	17.72	17.59	17.74	18.70
	CP-OFDM 16QAM	1	1	17.96	17.56	17.79	18.70
	CP-OFDM 64QAM	1	1	17.57	17.28	17.40	18.70
	CP-OFDM 256QAM	1	1	15.55	14.92	14.94	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	17.82	17.81	17.67	18.70
		1	104	18.01	18.11	18.11	18.70
		50	25	17.72	17.82	17.79	18.70
		100	0	17.79	17.87	17.92	18.70
	DFT-s-OFDM QPSK	1	1	17.89	17.82	17.72	18.70
		1	104	17.93	18.02	18.08	18.70
		50	25	17.71	17.75	17.77	18.70
		100	0	17.79	17.82	17.82	18.70
	DFT-s-OFDM 16QAM	1	1	18.01	17.79	17.76	18.70
	DFT-s-OFDM 64QAM	1	1	17.80	17.80	17.41	18.70
	DFT-s-OFDM 256QAM	1	1	16.52	16.36	16.43	17.70
	CP-OFDM QPSK	1	1	17.78	17.65	17.74	18.70
	CP-OFDM 16QAM	1	1	17.92	17.68	17.79	18.70

	CP-OFDM 64QAM	1	1	17.69	17.38	17.40	18.70
	CP-OFDM 256QAM	1	1	15.39	15.04	15.06	16.20
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Hotspot on--Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	12.38	12.11	12.32	13.20
		1	22	12.59	12.70	12.77	13.20
		12	6	12.15	12.20	12.57	13.20
		24	0	12.50	12.65	12.51	13.20
	DFT-s-OFDM QPSK	1	1	12.25	12.14	12.47	13.20
		1	22	12.64	12.38	12.39	13.20
		12	6	12.38	12.41	12.34	13.20
		24	0	12.24	12.34	12.32	13.20
	DFT-s-OFDM 16QAM	1	1	12.44	12.25	12.24	13.20
	DFT-s-OFDM 64QAM	1	1	12.47	12.58	12.14	13.20
	DFT-s-OFDM 256QAM	1	1	12.30	12.30	11.98	13.20
	CP-OFDM QPSK	1	1	12.40	12.14	12.26	13.20
	CP-OFDM 16QAM	1	1	12.45	12.16	12.55	13.20
	CP-OFDM 64QAM	1	1	12.53	12.15	12.12	13.20
CP-OFDM 256QAM	1	1	12.44	12.34	12.34	13.20	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	12.34	12.23	12.14	13.20
		1	36	12.53	12.64	12.69	13.20
		18	9	12.27	12.12	12.39	13.20
		36	0	12.38	12.49	12.47	13.20
	DFT-s-OFDM QPSK	1	1	12.37	12.22	12.31	13.20
		1	36	12.62	12.44	12.51	13.20
		18	9	12.30	12.23	12.34	13.20
		36	0	12.24	12.26	12.22	13.20
	DFT-s-OFDM 16QAM	1	1	12.28	12.21	12.24	13.20
	DFT-s-OFDM 64QAM	1	1	12.37	12.40	12.02	13.20
	DFT-s-OFDM 256QAM	1	1	12.18	12.16	11.96	13.20
	CP-OFDM QPSK	1	1	12.26	12.26	12.24	13.20
	CP-OFDM 16QAM	1	1	12.49	12.26	12.47	13.20
	CP-OFDM 64QAM	1	1	12.53	12.09	12.14	13.20
CP-OFDM 256QAM	1	1	12.48	12.18	12.16	13.20	

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	12.30	12.49	12.22	13.20
		1	49	12.49	12.46	12.75	13.20
		25	12	12.37	12.26	12.47	13.20
		50	0	12.32	12.47	12.23	13.20
	DFT-s-OFDM QPSK	1	1	12.43	12.54	12.35	13.20
		1	49	12.74	12.58	12.63	13.20
		25	12	12.40	12.27	12.36	13.20
		50	0	12.14	12.56	12.32	13.20
	DFT-s-OFDM 16QAM	1	1	12.30	12.27	12.44	13.20
	DFT-s-OFDM 64QAM	1	1	12.55	12.58	12.16	13.20
	DFT-s-OFDM 256QAM	1	1	12.34	12.08	12.24	13.20
	CP-OFDM QPSK	1	1	12.50	12.32	12.22	13.20
	CP-OFDM 16QAM	1	1	12.47	12.20	12.31	13.20
	CP-OFDM 64QAM	1	1	12.47	12.21	12.16	13.20
	CP-OFDM 256QAM	1	1	12.80	12.54	12.38	13.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	12.44	12.39	12.14	13.20
		1	76	12.53	12.58	12.53	13.20
		36	18	12.11	12.40	12.25	13.20
		75	0	12.20	12.35	12.31	13.20
	DFT-s-OFDM QPSK	1	1	12.43	12.22	12.45	13.20
		1	76	12.48	12.58	12.67	13.20
		36	18	12.34	12.31	12.50	13.20
		75	0	12.38	12.28	12.48	13.20
	DFT-s-OFDM 16QAM	1	1	12.60	12.21	12.34	13.20
	DFT-s-OFDM 64QAM	1	1	12.41	12.52	11.92	13.20
	DFT-s-OFDM 256QAM	1	1	12.42	12.22	12.16	13.20
	CP-OFDM QPSK	1	1	12.50	12.42	12.46	13.20
	CP-OFDM 16QAM	1	1	12.71	12.20	12.43	13.20
	CP-OFDM 64QAM	1	1	12.53	12.33	12.22	13.20
	CP-OFDM 256QAM	1	1	12.80	12.46	12.48	13.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	12.40	12.29	12.22	13.20
		1	104	12.59	12.62	12.65	13.20

		50	25	12.23	12.32	12.31	13.20
		100	0	12.32	12.43	12.41	13.20
	DFT-s-OFDM QPSK	1	1	12.47	12.34	12.27	13.20
		1	104	12.60	12.60	12.67	13.20
		50	25	12.28	12.37	12.34	13.20
		100	0	12.30	12.40	12.40	13.20
	DFT-s-OFDM 16QAM	1	1	12.48	12.33	12.32	13.20
	DFT-s-OFDM 64QAM	1	1	12.41	12.40	12.02	13.20
	DFT-s-OFDM 256QAM	1	1	12.28	12.14	12.16	13.20
	CP-OFDM QPSK	1	1	12.38	12.24	12.30	13.20
	CP-OFDM 16QAM	1	1	12.55	12.28	12.39	13.20
	CP-OFDM 64QAM	1	1	12.49	12.29	12.10	13.20
	CP-OFDM 256QAM	1	1	12.66	12.38	12.36	13.20
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Receiver on--Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	16.07	16.34	16.09	16.80
		1	22	16.09	16.35	16.41	16.80
		12	6	16.07	15.97	16.14	16.80
		24	0	16.17	16.15	15.84	16.80
	DFT-s-OFDM QPSK	1	1	16.16	16.16	16.24	16.80
		1	22	16.25	16.27	16.25	16.80
		12	6	16.25	16.22	16.27	16.80
		24	0	15.99	15.99	16.26	16.80
	DFT-s-OFDM 16QAM	1	1	16.11	15.77	15.96	16.80
	DFT-s-OFDM 64QAM	1	1	16.08	16.30	16.28	16.80
	DFT-s-OFDM 256QAM	1	1	16.10	15.96	15.85	16.80
	CP-OFDM QPSK	1	1	16.22	16.00	16.41	16.80
	CP-OFDM 16QAM	1	1	15.98	16.30	15.87	16.80
	CP-OFDM 64QAM	1	1	16.29	15.74	16.21	16.80
	CP-OFDM 256QAM	1	1	16.73	16.29	16.01	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	16.17	16.20	16.05	16.80
		1	36	16.15	16.27	16.23	16.80
		18	9	15.95	16.09	16.08	16.80
		36	0	16.17	16.11	15.92	16.80

	DFT-s-OFDM QPSK	1	1	16.26	16.20	16.20	16.80
		1	36	16.27	16.31	16.09	16.80
		18	9	16.07	16.14	16.21	16.80
		36	0	16.05	16.09	16.10	16.80
	DFT-s-OFDM 16QAM	1	1	15.93	15.71	15.78	16.80
	DFT-s-OFDM 64QAM	1	1	16.04	16.36	16.16	16.80
	DFT-s-OFDM 256QAM	1	1	16.06	16.02	15.89	16.80
	CP-OFDM QPSK	1	1	16.08	15.90	16.43	16.80
	CP-OFDM 16QAM	1	1	15.90	16.12	15.85	16.80
	CP-OFDM 64QAM	1	1	16.21	15.78	16.31	16.80
	CP-OFDM 256QAM	1	1	16.55	16.27	16.11	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	16.37	16.18	16.01	16.80
		1	49	16.21	16.47	16.07	16.80
		25	12	16.25	16.31	16.24	16.80
		50	0	16.05	16.13	16.20	16.80
	DFT-s-OFDM QPSK	1	1	16.42	15.98	16.18	16.80
		1	49	16.55	16.25	16.11	16.80
		25	12	16.17	16.00	16.25	16.80
		50	0	16.11	16.43	15.96	16.80
	DFT-s-OFDM 16QAM	1	1	16.03	15.67	15.78	16.80
	DFT-s-OFDM 64QAM	1	1	16.16	16.22	16.44	16.80
	DFT-s-OFDM 256QAM	1	1	16.42	16.30	15.89	16.80
	CP-OFDM QPSK	1	1	16.12	16.28	16.33	16.80
	CP-OFDM 16QAM	1	1	16.12	16.32	15.97	16.80
	CP-OFDM 64QAM	1	1	16.19	15.98	16.55	16.80
	CP-OFDM 256QAM	1	1	16.71	16.21	16.19	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	16.43	16.38	16.01	16.80
		1	76	16.23	16.23	16.13	16.80
		36	18	16.09	16.07	16.14	16.80
		75	0	16.29	16.19	16.16	16.80
	DFT-s-OFDM QPSK	1	1	16.30	16.14	16.30	16.80
		1	76	16.23	16.19	16.31	16.80
		36	18	16.07	16.26	16.25	16.80
		75	0	16.07	16.29	16.00	16.80

	DFT-s-OFDM 16QAM	1	1	16.27	15.83	16.06	16.80
	DFT-s-OFDM 64QAM	1	1	16.08	16.52	16.12	16.80
	DFT-s-OFDM 256QAM	1	1	16.28	16.36	16.17	16.80
	CP-OFDM QPSK	1	1	16.44	16.14	16.37	16.80
	CP-OFDM 16QAM	1	1	16.22	16.26	16.01	16.80
	CP-OFDM 64QAM	1	1	16.23	16.04	16.53	16.80
	CP-OFDM 256QAM	1	1	16.57	16.37	16.33	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	16.29	16.26	16.11	16.80
		1	104	16.23	16.31	16.25	16.80
		50	25	16.15	16.15	16.20	16.80
		100	0	16.13	16.15	16.10	16.80
	DFT-s-OFDM QPSK	1	1	16.30	16.16	16.16	16.80
		1	104	16.33	16.25	16.29	16.80
		50	25	16.13	16.16	16.23	16.80
		100	0	16.11	16.21	16.12	16.80
	DFT-s-OFDM 16QAM	1	1	16.13	15.75	15.90	16.80
	DFT-s-OFDM 64QAM	1	1	16.12	16.34	16.22	16.80
	DFT-s-OFDM 256QAM	1	1	16.24	16.22	16.03	16.80
	CP-OFDM QPSK	1	1	16.28	16.10	16.33	16.80
	CP-OFDM 16QAM	1	1	16.04	16.18	16.05	16.80
	CP-OFDM 64QAM	1	1	16.21	15.94	16.43	16.80
CP-OFDM 256QAM	1	1	16.51	16.25	16.21	16.80	
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Receiver off--Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	19.64	19.90	19.56	20.30
		1	22	19.72	19.62	19.76	20.30
		12	6	19.60	19.86	19.69	20.30
		24	0	19.88	19.86	19.72	20.30
	DFT-s-OFDM QPSK	1	1	20.02	19.63	19.66	20.30
		1	22	19.76	19.66	19.74	20.30
		12	6	19.48	19.48	19.54	20.30
		24	0	19.61	19.85	19.64	20.30
	DFT-s-OFDM 16QAM	1	1	19.94	19.53	19.84	20.30

	DFT-s-OFDM 64QAM	1	1	19.83	19.56	19.27	20.30
	DFT-s-OFDM 256QAM	1	1	19.61	19.70	19.50	20.30
	CP-OFDM QPSK	1	1	19.83	19.34	19.35	20.30
	CP-OFDM 16QAM	1	1	19.42	19.74	19.64	20.30
	CP-OFDM 64QAM	1	1	19.67	19.49	19.59	20.30
	CP-OFDM 256QAM	1	1	19.14	19.04	19.02	20.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	19.58	19.80	19.58	20.30
		1	36	19.78	19.62	19.70	20.30
		18	9	19.64	19.74	19.69	20.30
		36	0	19.72	19.68	19.62	20.30
	DFT-s-OFDM QPSK	1	1	19.84	19.55	19.60	20.30
		1	36	19.70	19.62	19.84	20.30
		18	9	19.46	19.48	19.52	20.30
		36	0	19.65	19.77	19.54	20.30
	DFT-s-OFDM 16QAM	1	1	19.88	19.35	19.76	20.30
	DFT-s-OFDM 64QAM	1	1	19.71	19.68	19.35	20.30
	DFT-s-OFDM 256QAM	1	1	19.71	19.74	19.46	20.30
	CP-OFDM QPSK	1	1	19.79	19.44	19.41	20.30
	CP-OFDM 16QAM	1	1	19.38	19.76	19.60	20.30
	CP-OFDM 64QAM	1	1	19.61	19.37	19.61	20.30
	CP-OFDM 256QAM	1	1	19.00	18.92	19.08	20.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	19.82	19.56	19.68	20.30
		1	49	19.76	19.68	19.76	20.30
		25	12	19.68	19.56	19.69	20.30
		50	0	19.70	19.90	19.60	20.30
	DFT-s-OFDM QPSK	1	1	19.78	19.49	19.76	20.30
		1	49	19.78	19.74	19.92	20.30
		25	12	19.62	19.56	19.70	20.30
		50	0	19.49	19.73	19.74	20.30
	DFT-s-OFDM 16QAM	1	1	20.02	19.13	19.54	20.30
	DFT-s-OFDM 64QAM	1	1	19.79	19.74	19.41	20.30
	DFT-s-OFDM 256QAM	1	1	19.63	19.68	19.78	20.30

	CP-OFDM QPSK	1	1	19.89	19.46	19.69	20.30
	CP-OFDM 16QAM	1	1	19.36	19.88	19.86	20.30
	CP-OFDM 64QAM	1	1	19.77	19.35	19.73	20.30
	CP-OFDM 256QAM	1	1	19.16	18.98	18.96	20.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	19.90	19.72	19.68	20.30
		1	76	19.70	19.80	19.76	20.30
		36	18	19.76	19.74	19.87	20.30
		75	0	19.60	19.74	19.58	20.30
	DFT-s-OFDM QPSK	1	1	19.86	19.79	19.80	20.30
		1	76	19.84	19.76	19.72	20.30
		36	18	19.48	19.74	19.78	20.30
		75	0	19.71	19.79	19.80	20.30
	DFT-s-OFDM 16QAM	1	1	19.84	19.19	19.70	20.30
	DFT-s-OFDM 64QAM	1	1	19.65	19.90	19.49	20.30
	DFT-s-OFDM 256QAM	1	1	19.83	19.86	19.78	20.30
	CP-OFDM QPSK	1	1	19.81	19.58	19.55	20.30
	CP-OFDM 16QAM	1	1	19.68	19.76	19.72	20.30
	CP-OFDM 64QAM	1	1	19.73	19.45	19.77	20.30
	CP-OFDM 256QAM	1	1	19.22	18.80	18.94	20.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	19.74	19.70	19.62	20.30
		1	104	19.82	19.82	19.86	20.30
		50	25	19.66	19.72	19.77	20.30
		100	0	19.64	19.70	19.66	20.30
	DFT-s-OFDM QPSK	1	1	19.76	19.65	19.62	20.30
		1	104	19.76	19.76	19.78	20.30
		50	25	19.60	19.64	19.70	20.30
		100	0	19.65	19.73	19.70	20.30
	DFT-s-OFDM 16QAM	1	1	19.92	19.25	19.70	20.30
	DFT-s-OFDM 64QAM	1	1	19.61	19.82	19.41	20.30
	DFT-s-OFDM 256QAM	1	1	19.75	19.70	19.66	20.30
	CP-OFDM QPSK	1	1	19.71	19.62	19.53	20.30
	CP-OFDM 16QAM	1	1	19.52	19.66	19.76	20.30
	CP-OFDM 64QAM	1	1	19.69	19.43	19.59	20.30
	CP-OFDM 256QAM	1	1	19.08	18.82	19.04	20.30

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Hotspot on--Ant4				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	14.09	14.43	14.06	14.80
		1	22	14.56	14.20	14.22	14.80
		12	6	14.22	14.33	14.19	14.80
		24	0	14.18	14.23	14.14	14.80
	DFT-s-OFDM QPSK	1	1	14.30	14.18	14.07	14.80
		1	22	14.35	14.46	14.30	14.80
		12	6	14.03	13.98	14.41	14.80
		24	0	14.36	14.24	13.97	14.80
	DFT-s-OFDM 16QAM	1	1	14.17	13.51	14.20	14.80
	DFT-s-OFDM 64QAM	1	1	14.09	14.10	13.91	14.80
	DFT-s-OFDM 256QAM	1	1	14.44	14.26	13.99	14.80
	CP-OFDM QPSK	1	1	14.28	14.37	14.03	14.80
	CP-OFDM 16QAM	1	1	14.04	14.15	14.38	14.80
	CP-OFDM 64QAM	1	1	13.94	14.01	14.05	14.80
CP-OFDM 256QAM	1	1	14.53	14.17	14.68	14.80	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	14.07	14.27	14.02	14.80
		1	36	14.42	14.26	14.30	14.80
		18	9	14.22	14.21	14.17	14.80
		36	0	14.22	14.21	14.22	14.80
	DFT-s-OFDM QPSK	1	1	14.18	14.26	14.07	14.80
		1	36	14.21	14.36	14.26	14.80
		18	9	14.05	13.98	14.27	14.80
		36	0	14.22	14.12	14.03	14.80
	DFT-s-OFDM 16QAM	1	1	14.13	13.63	14.18	14.80
	DFT-s-OFDM 64QAM	1	1	14.01	14.18	13.87	14.80
	DFT-s-OFDM 256QAM	1	1	14.34	14.14	14.07	14.80
	CP-OFDM QPSK	1	1	14.24	14.21	13.95	14.80
	CP-OFDM 16QAM	1	1	14.14	14.11	14.40	14.80
	CP-OFDM 64QAM	1	1	14.04	13.91	13.95	14.80
	CP-OFDM 256QAM	1	1	14.39	14.27	14.52	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	

20MHz	DFT-s-OFDM BPSK	1	1	14.41	14.11	14.34	14.80
		1	49	14.32	14.44	14.28	14.80
		25	12	14.14	14.21	14.23	14.80
		50	0	14.22	14.03	14.10	14.80
	DFT-s-OFDM QPSK	1	1	14.22	14.34	14.13	14.80
		1	49	14.21	14.24	14.50	14.80
		25	12	14.15	14.38	14.33	14.80
		50	0	14.38	14.34	14.33	14.80
	DFT-s-OFDM 16QAM	1	1	14.49	13.75	14.24	14.80
	DFT-s-OFDM 64QAM	1	1	14.07	14.24	13.95	14.80
	DFT-s-OFDM 256QAM	1	1	14.06	14.44	14.11	14.80
	CP-OFDM QPSK	1	1	14.26	14.05	14.05	14.80
	CP-OFDM 16QAM	1	1	14.30	14.31	14.40	14.80
	CP-OFDM 64QAM	1	1	14.04	14.07	13.99	14.80
	CP-OFDM 256QAM	1	1	14.75	14.33	14.66	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	14.23	14.19	14.30	14.80
		1	76	14.46	14.50	14.20	14.80
		36	18	14.26	14.21	14.23	14.80
		75	0	14.22	14.19	14.28	14.80
	DFT-s-OFDM QPSK	1	1	14.34	14.16	14.11	14.80
		1	76	14.35	14.28	14.26	14.80
		36	18	14.15	14.20	14.15	14.80
		75	0	14.08	14.14	14.13	14.80
	DFT-s-OFDM 16QAM	1	1	14.27	13.73	14.32	14.80
	DFT-s-OFDM 64QAM	1	1	14.03	14.38	14.09	14.80
	DFT-s-OFDM 256QAM	1	1	14.30	14.18	14.09	14.80
	CP-OFDM QPSK	1	1	14.30	14.05	14.21	14.80
	CP-OFDM 16QAM	1	1	14.10	14.39	14.54	14.80
	CP-OFDM 64QAM	1	1	14.14	13.93	14.25	14.80
	CP-OFDM 256QAM	1	1	14.71	14.37	14.46	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	14.27	14.23	14.14	14.80
		1	104	14.34	14.34	14.24	14.80
		50	25	14.18	14.17	14.25	14.80
		100	0	14.18	14.21	14.20	14.80

	DFT-s-OFDM QPSK	1	1	14.24	14.16	14.13	14.80
		1	104	14.33	14.32	14.32	14.80
		50	25	14.15	14.16	14.23	14.80
		100	0	14.20	14.24	14.17	14.80
	DFT-s-OFDM 16QAM	1	1	14.33	13.77	14.20	14.80
	DFT-s-OFDM 64QAM	1	1	14.13	14.30	13.93	14.80
	DFT-s-OFDM 256QAM	1	1	14.24	14.28	14.17	14.80
	CP-OFDM QPSK	1	1	14.26	14.13	14.05	14.80
	CP-OFDM 16QAM	1	1	14.10	14.21	14.38	14.80
		CP-OFDM 64QAM	1	1	14.22	13.93	14.13
	CP-OFDM 256QAM	1	1	14.55	14.23	14.44	14.80
n38							
Receiver on--Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	15.90	16.06	16.20	16.90
		1	22	16.24	16.37	16.44	16.90
		12	6	16.31	16.09	16.33	16.90
		24	0	16.18	16.25	16.25	16.90
	DFT-s-OFDM QPSK	1	1	16.33	16.16	16.32	16.90
		1	22	16.15	16.59	16.43	16.90
		12	6	16.29	16.20	16.50	16.90
		24	0	16.17	16.32	15.98	16.90
	DFT-s-OFDM 16QAM	1	1	16.00	16.01	15.65	16.90
	DFT-s-OFDM 64QAM	1	1	15.85	15.97	16.24	16.90
	DFT-s-OFDM 256QAM	1	1	16.01	16.50	16.43	16.90
	CP-OFDM QPSK	1	1	15.99	16.00	16.25	16.90
	CP-OFDM 16QAM	1	1	16.31	16.52	16.07	16.90
	CP-OFDM 64QAM	1	1	15.82	16.12	16.60	16.90
CP-OFDM 256QAM	1	1	15.22	14.93	14.64	15.90	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	16.02	16.18	16.20	16.90
		1	36	16.26	16.35	16.36	16.90
		18	9	16.17	16.05	16.37	16.90
		36	0	16.12	16.19	16.13	16.90
	DFT-s-OFDM QPSK	1	1	16.19	16.24	16.34	16.90
		1	36	16.17	16.49	16.41	16.90

		18	9	16.15	16.06	16.36	16.90
		36	0	16.07	16.36	16.08	16.90
	DFT-s-OFDM 16QAM	1	1	16.00	15.95	15.57	16.90
	DFT-s-OFDM 64QAM	1	1	15.83	16.09	16.36	16.90
	DFT-s-OFDM 256QAM	1	1	16.05	16.48	16.29	16.90
	CP-OFDM QPSK	1	1	16.03	16.10	16.09	16.90
	CP-OFDM 16QAM	1	1	16.19	16.38	15.93	16.90
	CP-OFDM 64QAM	1	1	15.84	16.16	16.42	16.90
	CP-OFDM 256QAM	1	1	15.12	14.79	14.74	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	16.28	16.06	16.18	16.90
		1	49	16.44	16.57	16.34	16.90
		25	12	15.97	16.31	16.47	16.90
		50	0	16.12	16.21	16.15	16.90
	DFT-s-OFDM QPSK	1	1	16.27	16.42	16.30	16.90
		1	49	16.35	16.71	16.45	16.90
		25	12	16.21	16.18	16.22	16.90
		50	0	16.25	16.34	16.32	16.90
	DFT-s-OFDM 16QAM	1	1	16.02	16.21	15.91	16.90
	DFT-s-OFDM 64QAM	1	1	15.67	16.11	16.26	16.90
	DFT-s-OFDM 256QAM	1	1	15.79	16.40	16.39	16.90
	CP-OFDM QPSK	1	1	16.07	16.50	15.97	16.90
	CP-OFDM 16QAM	1	1	16.25	16.36	16.15	16.90
	CP-OFDM 64QAM	1	1	16.02	16.30	16.62	16.90
	CP-OFDM 256QAM	1	1	14.94	14.77	15.06	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	16.10	16.10	16.28	16.90
		1	76	16.34	16.39	16.66	16.90
		36	18	16.25	16.09	16.17	16.90
		75	0	16.06	16.43	16.21	16.90
	DFT-s-OFDM QPSK	1	1	16.01	16.40	16.38	16.90
		1	76	16.35	16.59	16.69	16.90
		36	18	16.29	16.40	16.26	16.90
		75	0	16.29	16.36	16.16	16.90
	DFT-s-OFDM 16QAM	1	1	16.16	15.97	15.71	16.90

	DFT-s-OFDM 64QAM	1	1	16.01	16.17	16.22	16.90
	DFT-s-OFDM 256QAM	1	1	16.07	16.40	16.39	16.90
	CP-OFDM QPSK	1	1	16.07	16.28	16.19	16.90
	CP-OFDM 16QAM	1	1	15.99	16.26	16.07	16.90
	CP-OFDM 64QAM	1	1	16.14	16.40	16.56	16.90
	CP-OFDM 256QAM	1	1	15.20	14.91	14.82	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	16.12	16.22	16.18	16.90
		1	104	16.34	16.37	16.48	16.90
		50	25	16.11	16.19	16.29	16.90
		100	0	16.16	16.25	16.25	16.90
	DFT-s-OFDM QPSK	1	1	16.11	16.28	16.32	16.90
		1	104	16.29	16.49	16.55	16.90
		50	25	16.15	16.24	16.26	16.90
		100	0	16.15	16.26	16.28	16.90
	DFT-s-OFDM 16QAM	1	1	16.20	16.05	15.77	16.90
	DFT-s-OFDM 64QAM	1	1	15.83	16.07	16.30	16.90
	DFT-s-OFDM 256QAM	1	1	15.95	16.42	16.23	16.90
	CP-OFDM QPSK	1	1	16.05	16.28	16.13	16.90
	CP-OFDM 16QAM	1	1	16.11	16.38	16.09	16.90
	CP-OFDM 64QAM	1	1	16.02	16.30	16.52	16.90
CP-OFDM 256QAM	1	1	15.02	14.91	14.90	15.90	
n38							
Receiver off--Ant5				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	19.41	19.56	19.31	20.40
		1	22	19.40	19.48	19.64	20.40
		12	6	19.25	19.32	19.20	20.40
		24	0	19.06	18.83	19.16	19.90
	DFT-s-OFDM QPSK	1	1	19.47	19.11	19.58	20.40
		1	22	19.52	19.41	19.63	20.40
		12	6	19.43	19.47	19.51	20.40
		24	0	18.95	18.82	18.84	19.90
	DFT-s-OFDM 16QAM	1	1	19.24	19.34	19.05	20.40
	DFT-s-OFDM 64QAM	1	1	18.03	18.07	18.54	19.40

	DFT-s-OFDM 256QAM	1	1	15.91	16.50	16.41	17.40
	CP-OFDM QPSK	1	1	18.78	18.85	18.72	19.90
	CP-OFDM 16QAM	1	1	18.44	18.92	18.13	19.40
	CP-OFDM 64QAM	1	1	17.28	17.44	17.56	18.40
	CP-OFDM 256QAM	1	1	15.09	14.98	14.70	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	19.31	19.48	19.39	20.40
		1	36	19.48	19.44	19.74	20.40
		18	9	19.35	19.42	19.28	20.40
		36	0	18.88	18.85	19.08	19.90
	DFT-s-OFDM QPSK	1	1	19.39	19.19	19.60	20.40
		1	36	19.56	19.49	19.73	20.40
		18	9	19.25	19.29	19.33	20.40
		36	0	18.83	18.72	18.90	19.90
	DFT-s-OFDM 16QAM	1	1	19.12	19.20	18.95	20.40
	DFT-s-OFDM 64QAM	1	1	17.87	18.17	18.44	19.40
	DFT-s-OFDM 256QAM	1	1	15.97	16.38	16.27	17.40
	CP-OFDM QPSK	1	1	18.62	18.79	18.84	19.90
	CP-OFDM 16QAM	1	1	18.30	18.88	18.09	19.40
	CP-OFDM 64QAM	1	1	17.14	17.30	17.66	18.40
	CP-OFDM 256QAM	1	1	15.07	14.92	14.72	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	19.31	19.58	19.31	20.40
		1	49	19.64	19.86	19.58	20.40
		25	12	19.31	19.44	19.62	20.40
		50	0	18.82	19.01	19.18	19.90
	DFT-s-OFDM QPSK	1	1	19.49	19.25	19.54	20.40
		1	49	19.62	19.79	19.77	20.40
		25	12	19.29	19.13	19.59	20.40
		50	0	18.65	19.06	19.14	19.90
	DFT-s-OFDM 16QAM	1	1	19.32	19.36	19.11	20.40
	DFT-s-OFDM 64QAM	1	1	18.17	18.05	18.44	19.40
	DFT-s-OFDM 256QAM	1	1	16.29	16.74	16.55	17.40
	CP-OFDM QPSK	1	1	18.82	19.15	18.76	19.90
	CP-OFDM 16QAM	1	1	18.28	18.84	18.15	19.40

	CP-OFDM 64QAM	1	1	17.12	17.64	17.58	18.40
	CP-OFDM 256QAM	1	1	15.17	14.92	14.72	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				517000/2585	519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	19.35	19.52	19.47	20.40
		1	76	19.50	19.74	19.80	20.40
		36	18	19.47	19.42	19.52	20.40
		75	0	19.00	18.99	19.14	19.90
	DFT-s-OFDM QPSK	1	1	19.25	19.49	19.40	20.40
		1	76	19.44	19.79	19.91	20.40
		36	18	19.29	19.27	19.47	20.40
		75	0	18.87	18.82	19.02	19.90
	DFT-s-OFDM 16QAM	1	1	19.40	19.28	19.01	20.40
	DFT-s-OFDM 64QAM	1	1	18.09	18.35	18.32	19.40
	DFT-s-OFDM 256QAM	1	1	16.11	16.44	16.49	17.40
	CP-OFDM QPSK	1	1	18.60	18.87	18.70	19.90
	CP-OFDM 16QAM	1	1	18.20	19.02	18.37	19.40
	CP-OFDM 64QAM	1	1	17.32	17.48	17.68	18.40
	CP-OFDM 256QAM	1	1	15.09	14.94	14.98	15.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	19.25	19.38	19.35	20.40
		1	104	19.54	19.64	19.68	20.40
		50	25	19.31	19.32	19.44	20.40
		100	0	18.86	18.93	18.98	19.90
	DFT-s-OFDM QPSK	1	1	19.31	19.37	19.50	20.40
		1	104	19.52	19.61	19.75	20.40
		50	25	19.27	19.31	19.37	20.40
		100	0	18.83	18.86	18.94	19.90
	DFT-s-OFDM 16QAM	1	1	19.30	19.16	18.89	20.40
	DFT-s-OFDM 64QAM	1	1	18.01	18.21	18.40	19.40
	DFT-s-OFDM 256QAM	1	1	16.11	16.54	16.33	17.40
	CP-OFDM QPSK	1	1	18.70	18.95	18.82	19.90
	CP-OFDM 16QAM	1	1	18.22	19.02	18.27	19.40
	CP-OFDM 64QAM	1	1	17.20	17.50	17.68	18.40
	CP-OFDM 256QAM	1	1	15.01	14.88	14.88	15.90
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Hotspot on--Ant5				Maximum Output Power (dBm)			Tune-up

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				515000/2575	519000/2595	523000/2615	
10MHz	DFT-s-OFDM BPSK	1	1	13.89	14.18	14.00	14.90
		1	22	14.40	14.31	14.72	14.90
		12	6	14.18	14.32	14.26	14.90
		24	0	13.87	14.38	14.44	14.90
	DFT-s-OFDM QPSK	1	1	13.91	14.30	14.33	14.90
		1	22	14.37	14.43	14.51	14.90
		12	6	14.22	13.90	14.36	14.90
		24	0	14.11	14.32	14.14	14.90
	DFT-s-OFDM 16QAM	1	1	14.46	14.16	13.66	14.90
	DFT-s-OFDM 64QAM	1	1	13.75	14.16	14.41	14.90
	DFT-s-OFDM 256QAM	1	1	13.70	14.34	14.07	14.90
	CP-OFDM QPSK	1	1	13.94	14.31	14.20	14.90
	CP-OFDM 16QAM	1	1	14.07	14.38	14.08	14.90
	CP-OFDM 64QAM	1	1	13.73	14.12	14.16	14.90
	CP-OFDM 256QAM	1	1	14.25	13.96	14.16	14.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				515500/2577.5	519000/2595	522500/2612.5	
15MHz	DFT-s-OFDM BPSK	1	1	13.99	14.04	14.02	14.90
		1	36	14.42	14.35	14.54	14.90
		18	9	14.22	14.24	14.10	14.90
		36	0	13.99	14.32	14.40	14.90
	DFT-s-OFDM QPSK	1	1	13.99	14.20	14.43	14.90
		1	36	14.45	14.41	14.59	14.90
		18	9	14.24	14.02	14.36	14.90
		36	0	14.11	14.24	14.22	14.90
	DFT-s-OFDM 16QAM	1	1	14.28	14.12	13.76	14.90
	DFT-s-OFDM 64QAM	1	1	13.85	14.10	14.25	14.90
	DFT-s-OFDM 256QAM	1	1	13.78	14.42	14.13	14.90
	CP-OFDM QPSK	1	1	13.88	14.31	14.14	14.90
	CP-OFDM 16QAM	1	1	13.93	14.28	13.96	14.90
	CP-OFDM 64QAM	1	1	13.85	14.16	14.24	14.90
	CP-OFDM 256QAM	1	1	14.21	14.00	14.04	14.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				516000/2580	519000/2595	522000/2610	
20MHz	DFT-s-OFDM BPSK	1	1	14.31	14.04	14.30	14.90
		1	49	14.30	14.43	14.70	14.90

		25	12	14.02	14.26	14.38	14.90
		50	0	14.03	14.14	14.54	14.90
	DFT-s-OFDM QPSK	1	1	14.15	14.12	14.41	14.90
		1	49	14.47	14.49	14.61	14.90
		25	12	14.10	14.08	14.48	14.90
		50	0	14.13	14.32	14.24	14.90
	DFT-s-OFDM 16QAM	1	1	14.26	13.86	13.72	14.90
	DFT-s-OFDM 64QAM	1	1	13.73	14.22	14.47	14.90
	DFT-s-OFDM 256QAM	1	1	13.90	14.32	14.13	14.90
	CP-OFDM QPSK	1	1	13.96	14.39	14.16	14.90
	CP-OFDM 16QAM	1	1	14.13	14.56	14.16	14.90
	CP-OFDM 64QAM	1	1	14.15	14.54	14.30	14.90
	CP-OFDM 256QAM	1	1	14.57	14.16	14.20	14.90
	Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)		
517000/2585					519000/2595	521000/2605	
30MHz	DFT-s-OFDM BPSK	1	1	14.11	14.34	14.26	14.90
		1	76	14.30	14.31	14.56	14.90
		36	18	14.24	14.14	14.34	14.90
		75	0	14.27	14.30	14.22	14.90
	DFT-s-OFDM QPSK	1	1	14.11	14.10	14.25	14.90
		1	76	14.51	14.43	14.51	14.90
		36	18	14.02	14.30	14.20	14.90
		75	0	14.15	14.28	14.44	14.90
	DFT-s-OFDM 16QAM	1	1	14.34	14.22	13.80	14.90
	DFT-s-OFDM 64QAM	1	1	13.99	13.96	14.35	14.90
	DFT-s-OFDM 256QAM	1	1	13.92	14.54	14.25	14.90
	CP-OFDM QPSK	1	1	14.10	14.43	14.14	14.90
	CP-OFDM 16QAM	1	1	13.95	14.34	14.02	14.90
	CP-OFDM 64QAM	1	1	14.13	14.24	14.56	14.90
CP-OFDM 256QAM	1	1	14.41	14.10	14.40	14.90	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				518000/2590	519000/2595	520000/2600	
40MHz	DFT-s-OFDM BPSK	1	1	14.11	14.16	14.20	14.90
		1	104	14.36	14.41	14.50	14.90
		50	25	14.12	14.16	14.22	14.90
		100	0	14.15	14.24	14.32	14.90
	DFT-s-OFDM QPSK	1	1	14.13	14.20	14.33	14.90
		1	104	14.41	14.53	14.63	14.90

		50	25	14.14	14.20	14.26	14.90
		100	0	14.21	14.22	14.28	14.90
	DFT-s-OFDM 16QAM	1	1	14.20	14.04	13.78	14.90
	DFT-s-OFDM 64QAM	1	1	13.89	14.04	14.25	14.90
	DFT-s-OFDM 256QAM	1	1	13.98	14.40	14.21	14.90
	CP-OFDM QPSK	1	1	14.08	14.27	14.16	14.90
	CP-OFDM 16QAM	1	1	14.07	14.34	14.08	14.90
	CP-OFDM 64QAM	1	1	14.05	14.36	14.42	14.90
	CP-OFDM 256QAM	1	1	14.37	14.20	14.22	14.90

n41							
Receiver on& Receiver off--Ant0				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	20.59	20.97	20.54	21.50
		1	49	20.68	21.04	21.14	21.50
		25	12	21.08	20.62	20.70	21.50
		50	0	20.71	21.04	21.03	21.50
	DFT-s-OFDM QPSK	1	1	20.54	21.30	20.43	21.50
		1	49	20.41	20.76	20.72	21.50
		25	12	21.08	20.80	20.78	21.50
		50	0	20.88	20.65	20.56	21.50
	DFT-s-OFDM 16QAM	1	1	20.82	20.99	20.40	21.50
	DFT-s-OFDM 64QAM	1	1	20.09	21.18	20.23	21.50
	DFT-s-OFDM 256QAM	1	1	18.67	19.20	18.77	20.00
	CP-OFDM QPSK	1	1	20.71	21.32	20.54	21.50
	CP-OFDM 16QAM	1	1	20.44	20.80	20.07	21.50
	CP-OFDM 64QAM	1	1	19.49	19.95	19.04	21.00
	CP-OFDM 256QAM	1	1	17.35	18.33	17.49	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	20.61	21.33	20.50	21.50
		1	76	20.58	20.72	21.08	21.50
		36	18	20.88	20.32	20.86	21.50
		75	0	20.95	20.98	21.21	21.50
	DFT-s-OFDM QPSK	1	1	20.38	21.40	20.31	21.50
		1	76	20.29	20.84	20.88	21.50

		36	18	20.90	20.64	20.92	21.50
		75	0	21.04	20.75	20.54	21.50
	DFT-s-OFDM 16QAM	1	1	20.98	21.15	20.18	21.50
	DFT-s-OFDM 64QAM	1	1	20.17	20.86	20.27	21.50
	DFT-s-OFDM 256QAM	1	1	18.67	19.38	18.39	20.00
	CP-OFDM QPSK	1	1	20.49	21.22	20.50	21.50
	CP-OFDM 16QAM	1	1	20.54	20.86	19.89	21.50
	CP-OFDM 64QAM	1	1	19.39	19.91	19.06	21.00
	CP-OFDM 256QAM	1	1	17.17	18.17	17.61	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	20.51	21.23	20.52	21.50
		1	104	20.44	21.06	21.14	21.50
		50	25	20.78	20.54	20.76	21.50
		100	0	20.79	21.12	20.97	21.50
	DFT-s-OFDM QPSK	1	1	20.40	21.14	20.19	21.50
		1	104	20.37	21.00	20.66	21.50
		50	25	20.90	20.54	20.80	21.50
		100	0	21.06	20.65	20.80	21.50
	DFT-s-OFDM 16QAM	1	1	20.88	20.95	20.48	21.50
	DFT-s-OFDM 64QAM	1	1	20.29	21.12	20.05	21.50
	DFT-s-OFDM 256QAM	1	1	18.65	19.26	18.73	20.00
	CP-OFDM QPSK	1	1	20.59	21.08	20.30	21.50
	CP-OFDM 16QAM	1	1	20.44	21.04	19.93	21.50
	CP-OFDM 64QAM	1	1	19.49	19.99	19.20	21.00
	CP-OFDM 256QAM	1	1	17.47	18.25	17.63	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	20.55	21.15	20.58	21.50
		1	131	20.46	20.90	20.98	21.50
		64	32	20.86	20.42	20.84	21.50
		128	0	20.79	21.04	21.01	21.50
	DFT-s-OFDM QPSK	1	1	20.52	21.24	20.31	21.50
		1	131	20.47	20.94	20.78	21.50
		64	32	20.98	20.62	20.72	21.50
		128	0	21.02	20.73	20.70	21.50

	DFT-s-OFDM 16QAM	1	1	20.92	21.03	20.32	21.50
	DFT-s-OFDM 64QAM	1	1	20.21	20.98	20.09	21.50
	DFT-s-OFDM 256QAM	1	1	18.55	19.30	18.55	20.00
	CP-OFDM QPSK	1	1	20.57	21.16	20.40	21.50
	CP-OFDM 16QAM	1	1	20.48	20.98	20.05	21.50
	CP-OFDM 64QAM	1	1	19.47	19.93	19.22	21.00
	CP-OFDM 256QAM	1	1	17.33	18.17	17.45	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	20.49	21.17	20.42	21.50
		1	160	20.38	20.86	21.02	21.50
		81	40	20.88	20.24	20.80	21.50
		162	0	20.79	20.98	20.95	21.50
	DFT-s-OFDM QPSK	1	1	20.46	21.42	20.41	21.50
		1	160	20.23	21.02	20.90	21.50
		81	40	20.70	20.34	20.88	21.50
		162	0	20.94	20.77	20.70	21.50
	DFT-s-OFDM 16QAM	1	1	20.82	20.99	20.46	21.50
	DFT-s-OFDM 64QAM	1	1	20.19	20.80	20.23	21.50
	DFT-s-OFDM 256QAM	1	1	18.51	19.24	18.43	20.00
	CP-OFDM QPSK	1	1	20.53	21.22	20.44	21.50
	CP-OFDM 16QAM	1	1	20.44	21.08	19.95	21.50
	CP-OFDM 64QAM	1	1	19.21	19.85	19.04	21.00
	CP-OFDM 256QAM	1	1	17.31	18.13	17.41	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				506202/2531.01	518598/2595.99	531000/2655	
70MHz	DFT-s-OFDM BPSK	1	1	20.47	21.05	20.46	21.50
		1	160	20.56	20.86	21.04	21.50
		81	40	20.84	20.24	20.86	21.50
		162	0	20.91	21.10	20.91	21.50
	DFT-s-OFDM QPSK	1	1	20.50	21.34	20.53	21.50
		1	160	20.21	21.20	20.98	21.50
		81	40	20.68	20.50	20.90	21.50
		162	0	20.96	20.93	20.68	21.50
	DFT-s-OFDM 16QAM	1	1	20.90	20.99	20.58	21.50

	DFT-s-OFDM 64QAM	1	1	20.25	20.74	20.17	21.50
	DFT-s-OFDM 256QAM	1	1	18.49	19.36	18.35	20.00
	CP-OFDM QPSK	1	1	20.67	21.40	20.46	21.50
	CP-OFDM 16QAM	1	1	20.34	21.14	19.91	21.50
	CP-OFDM 64QAM	1	1	19.27	19.89	19.22	21.00
	CP-OFDM 256QAM	1	1	17.19	18.31	17.59	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	20.71	21.23	20.36	21.50
		1	215	20.70	21.04	20.90	21.50
		108	54	20.78	20.30	21.06	21.50
		216	0	21.05	20.80	20.89	21.50
	DFT-s-OFDM QPSK	1	1	20.76	21.42	20.47	21.50
		1	215	20.47	21.06	20.94	21.50
		108	54	21.02	20.44	20.98	21.50
		216	0	20.98	21.01	20.88	21.50
	DFT-s-OFDM 16QAM	1	1	20.82	21.03	20.36	21.50
	DFT-s-OFDM 64QAM	1	1	20.27	21.02	20.35	21.50
	DFT-s-OFDM 256QAM	1	1	18.83	19.30	18.67	20.00
	CP-OFDM QPSK	1	1	20.67	21.18	20.26	21.50
	CP-OFDM 16QAM	1	1	20.28	20.86	20.05	21.50
	CP-OFDM 64QAM	1	1	19.27	20.03	19.16	21.00
	CP-OFDM 256QAM	1	1	17.05	17.99	17.57	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	20.75	21.19	20.42	21.50
		1	243	20.60	20.88	21.06	21.50
		120	60	20.84	20.42	20.74	21.50
		243	0	21.01	20.86	21.01	21.50
	DFT-s-OFDM QPSK	1	1	20.70	21.46	20.45	21.50
		1	243	20.31	20.86	20.96	21.50
		120	60	20.94	20.62	20.68	21.50
		243	0	21.06	20.91	20.80	21.50
	DFT-s-OFDM 16QAM	1	1	20.68	20.93	20.34	21.50
	DFT-s-OFDM 64QAM	1	1	20.19	21.12	20.15	21.50

	DFT-s-OFDM 256QAM	1	1	18.67	19.22	18.61	20.00
	CP-OFDM QPSK	1	1	20.57	21.22	20.50	21.50
	CP-OFDM 16QAM	1	1	20.36	20.96	20.19	21.50
	CP-OFDM 64QAM	1	1	19.57	19.91	19.50	21.00
	CP-OFDM 256QAM	1	1	17.27	18.07	17.31	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	20.61	21.25	20.42	21.50
		1	271	20.50	20.88	20.96	21.50
		135	67	20.94	20.42	20.84	21.50
		270	0	20.87	20.92	20.93	21.50
	DFT-s-OFDM QPSK	1	1	20.54	21.32	20.33	21.50
		1	271	20.43	20.98	20.88	21.50
		135	67	20.90	20.48	20.80	21.50
		270	0	20.92	20.81	20.80	21.50
	DFT-s-OFDM 16QAM	1	1	20.78	20.95	20.36	21.50
	DFT-s-OFDM 64QAM	1	1	20.29	20.98	20.13	21.50
	DFT-s-OFDM 256QAM	1	1	18.61	19.34	18.49	20.00
	CP-OFDM QPSK	1	1	20.61	21.12	20.36	21.50
	CP-OFDM 16QAM	1	1	20.40	21.04	20.09	21.50
	CP-OFDM 64QAM	1	1	19.41	20.03	19.12	21.00
	CP-OFDM 256QAM	1	1	17.23	18.05	17.39	19.00
n41							
Hotspot on--Ant0				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	19.69	19.56	18.82	20.00
		1	49	19.15	19.43	19.52	20.00
		25	12	19.30	19.10	19.33	20.00
		50	0	19.27	19.52	19.65	20.00
	DFT-s-OFDM QPSK	1	1	19.39	19.65	18.81	20.00
		1	49	19.42	19.61	19.66	20.00
		25	12	19.67	19.20	19.29	20.00
		50	0	19.31	19.34	19.66	20.00
	DFT-s-OFDM 16QAM	1	1	19.17	19.55	19.06	20.00
	DFT-s-OFDM 64QAM	1	1	19.32	19.78	18.70	20.00

	DFT-s-OFDM 256QAM	1	1	18.64	18.99	18.88	20.00
	CP-OFDM QPSK	1	1	19.19	19.60	18.86	20.00
	CP-OFDM 16QAM	1	1	19.09	19.53	18.83	20.00
	CP-OFDM 64QAM	1	1	18.99	19.39	18.70	20.00
	CP-OFDM 256QAM	1	1	17.26	18.21	17.40	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	19.57	19.60	18.90	20.00
		1	76	19.11	19.59	19.70	20.00
		36	18	19.62	19.06	19.37	20.00
		75	0	19.21	19.56	19.55	20.00
	DFT-s-OFDM QPSK	1	1	19.17	19.83	18.75	20.00
		1	76	19.14	19.49	19.66	20.00
		36	18	19.57	19.16	19.59	20.00
		75	0	19.37	19.40	19.44	20.00
	DFT-s-OFDM 16QAM	1	1	19.25	19.39	19.02	20.00
	DFT-s-OFDM 64QAM	1	1	19.34	19.56	18.94	20.00
	DFT-s-OFDM 256QAM	1	1	18.96	19.23	18.78	20.00
	CP-OFDM QPSK	1	1	18.91	19.60	18.88	20.00
	CP-OFDM 16QAM	1	1	18.91	19.71	18.69	20.00
	CP-OFDM 64QAM	1	1	18.87	19.37	18.62	20.00
	CP-OFDM 256QAM	1	1	17.40	17.97	17.44	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	19.47	19.68	19.00	20.00
		1	104	19.03	19.53	19.64	20.00
		50	25	19.46	19.02	19.41	20.00
		100	0	19.33	19.56	19.61	20.00
	DFT-s-OFDM QPSK	1	1	19.17	19.77	18.67	20.00
		1	104	19.24	19.41	19.60	20.00
		50	25	19.61	19.00	19.45	20.00
		100	0	19.29	19.28	19.44	20.00
	DFT-s-OFDM 16QAM	1	1	19.31	19.49	19.00	20.00
	DFT-s-OFDM 64QAM	1	1	19.22	19.60	18.80	20.00
	DFT-s-OFDM 256QAM	1	1	18.80	19.11	18.66	20.00

	CP-OFDM QPSK	1	1	19.01	19.46	18.72	20.00
	CP-OFDM 16QAM	1	1	18.99	19.57	18.77	20.00
	CP-OFDM 64QAM	1	1	18.89	19.31	18.74	20.00
	CP-OFDM 256QAM	1	1	17.40	17.99	17.44	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	19.21	19.82	19.08	20.00
		1	131	19.21	19.57	19.72	20.00
		64	32	19.50	19.10	19.37	20.00
		128	0	19.43	19.52	19.61	20.00
	DFT-s-OFDM QPSK	1	1	19.15	19.83	18.97	20.00
		1	131	19.02	19.71	19.38	20.00
		64	32	19.61	19.14	19.41	20.00
		128	0	19.39	19.46	19.30	20.00
	DFT-s-OFDM 16QAM	1	1	19.31	19.55	18.94	20.00
	DFT-s-OFDM 64QAM	1	1	19.26	19.52	18.78	20.00
	DFT-s-OFDM 256QAM	1	1	18.70	19.21	18.64	20.00
	CP-OFDM QPSK	1	1	19.23	19.62	19.06	20.00
	CP-OFDM 16QAM	1	1	19.21	19.51	18.95	20.00
	CP-OFDM 64QAM	1	1	19.07	19.57	18.80	20.00
	CP-OFDM 256QAM	1	1	17.38	18.19	17.36	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	19.11	19.72	18.90	20.00
		1	160	18.93	19.33	19.52	20.00
		81	40	19.40	18.94	19.33	20.00
		162	0	19.33	19.46	19.35	20.00
	DFT-s-OFDM QPSK	1	1	19.13	19.87	18.93	20.00
		1	160	19.00	19.39	19.40	20.00
		81	40	19.45	19.08	19.27	20.00
		162	0	19.39	19.36	19.20	20.00
	DFT-s-OFDM 16QAM	1	1	19.45	19.55	18.80	20.00
	DFT-s-OFDM 64QAM	1	1	19.20	19.48	18.76	20.00
	DFT-s-OFDM 256QAM	1	1	18.62	19.05	18.68	20.00
	CP-OFDM QPSK	1	1	19.19	19.54	18.88	20.00
	CP-OFDM 16QAM	1	1	19.15	19.29	18.81	20.00

	CP-OFDM 64QAM	1	1	19.15	19.43	18.80	20.00
	CP-OFDM 256QAM	1	1	17.12	18.15	17.30	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				506202/2531.01	518598/2595.99	531000/2655	
70MHz	DFT-s-OFDM BPSK	1	1	19.11	19.74	18.86	20.00
		1	160	19.07	19.27	19.44	20.00
		81	40	19.36	18.78	19.23	20.00
		162	0	19.39	19.54	19.25	20.00
	DFT-s-OFDM QPSK	1	1	19.29	19.71	19.03	20.00
		1	160	18.88	19.59	19.42	20.00
		81	40	19.31	19.08	19.23	20.00
		162	0	19.47	19.56	19.28	20.00
	DFT-s-OFDM 16QAM	1	1	19.47	19.43	18.80	20.00
	DFT-s-OFDM 64QAM	1	1	19.16	19.38	18.94	20.00
	DFT-s-OFDM 256QAM	1	1	18.60	19.15	18.84	20.00
	CP-OFDM QPSK	1	1	19.41	19.64	19.04	20.00
	CP-OFDM 16QAM	1	1	19.23	19.15	18.77	20.00
	CP-OFDM 64QAM	1	1	19.11	19.63	18.82	20.00
	CP-OFDM 256QAM	1	1	17.24	18.29	17.12	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	19.21	19.60	19.06	20.00
		1	215	19.17	19.33	19.70	20.00
		108	54	19.62	19.06	19.21	20.00
		216	0	19.43	19.54	19.41	20.00
	DFT-s-OFDM QPSK	1	1	19.15	19.75	18.97	20.00
		1	215	18.96	19.77	19.40	20.00
		108	54	19.61	19.08	19.39	20.00
		216	0	19.51	19.48	19.38	20.00
	DFT-s-OFDM 16QAM	1	1	19.33	19.57	18.90	20.00
	DFT-s-OFDM 64QAM	1	1	19.04	19.48	18.72	20.00
	DFT-s-OFDM 256QAM	1	1	18.70	19.25	18.50	20.00
	CP-OFDM QPSK	1	1	19.11	19.48	18.90	20.00
	CP-OFDM 16QAM	1	1	19.27	19.31	18.81	20.00
	CP-OFDM 64QAM	1	1	19.25	19.31	18.70	20.00
	CP-OFDM 256QAM	1	1	17.20	17.93	17.36	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	19.27	19.80	19.04	20.00
		1	243	19.17	19.53	19.60	20.00
		120	60	19.62	19.28	19.21	20.00
		243	0	19.43	19.38	19.35	20.00
	DFT-s-OFDM QPSK	1	1	19.17	19.79	18.87	20.00
		1	243	18.88	19.71	19.42	20.00
		120	60	19.41	19.26	19.29	20.00
		243	0	19.41	19.48	19.34	20.00
	DFT-s-OFDM 16QAM	1	1	19.41	19.57	18.90	20.00
	DFT-s-OFDM 64QAM	1	1	19.18	19.40	19.02	20.00
	DFT-s-OFDM 256QAM	1	1	18.72	19.11	18.84	20.00
	CP-OFDM QPSK	1	1	19.31	19.76	19.10	20.00
	CP-OFDM 16QAM	1	1	19.15	19.49	18.89	20.00
	CP-OFDM 64QAM	1	1	19.03	19.37	18.88	20.00
	CP-OFDM 256QAM	1	1	17.16	18.13	17.40	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	19.27	19.70	19.06	20.00
		1	271	19.07	19.51	19.58	20.00
		135	67	19.46	19.10	19.33	20.00
		270	0	19.43	19.46	19.45	20.00
	DFT-s-OFDM QPSK	1	1	19.17	19.77	18.93	20.00
		1	271	18.98	19.57	19.46	20.00
		135	67	19.51	19.12	19.41	20.00
		270	0	19.47	19.48	19.40	20.00
	DFT-s-OFDM 16QAM	1	1	19.37	19.45	18.96	20.00
	DFT-s-OFDM 64QAM	1	1	19.10	19.48	18.88	20.00
	DFT-s-OFDM 256QAM	1	1	18.70	19.21	18.66	20.00
	CP-OFDM QPSK	1	1	19.15	19.64	18.94	20.00
	CP-OFDM 16QAM	1	1	19.13	19.49	18.79	20.00
	CP-OFDM 64QAM	1	1	19.15	19.45	18.82	20.00
	CP-OFDM 256QAM	1	1	17.28	18.07	17.46	19.00
n41							
Receiver on--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	15.50	16.49	16.19	17.00
		1	49	15.82	15.87	16.27	17.00
		25	12	16.29	15.75	16.15	17.00
		50	0	16.02	15.63	16.14	17.00
	DFT-s-OFDM QPSK	1	1	15.51	16.28	16.25	17.00
		1	49	15.90	16.32	16.07	17.00
		25	12	15.90	15.74	15.85	17.00
		50	0	16.05	16.13	16.15	17.00
	DFT-s-OFDM 16QAM	1	1	15.43	15.81	15.86	17.00
	DFT-s-OFDM 64QAM	1	1	15.76	15.95	16.10	17.00
	DFT-s-OFDM 256QAM	1	1	16.00	15.87	15.99	17.00
	CP-OFDM QPSK	1	1	15.42	16.02	16.19	17.00
	CP-OFDM 16QAM	1	1	15.43	15.64	15.90	17.00
	CP-OFDM 64QAM	1	1	16.05	16.11	15.74	17.00
	CP-OFDM 256QAM	1	1	16.08	16.70	16.56	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	15.74	16.47	16.47	17.00
		1	76	15.92	16.17	16.21	17.00
		36	18	16.09	15.93	15.95	17.00
		75	0	16.02	15.75	15.82	17.00
	DFT-s-OFDM QPSK	1	1	15.55	16.18	16.09	17.00
		1	76	15.98	16.16	16.03	17.00
		36	18	15.88	15.90	15.79	17.00
		75	0	15.87	15.97	15.89	17.00
	DFT-s-OFDM 16QAM	1	1	15.13	16.17	15.98	17.00
	DFT-s-OFDM 64QAM	1	1	15.50	16.21	16.28	17.00
	DFT-s-OFDM 256QAM	1	1	15.86	15.95	15.97	17.00
	CP-OFDM QPSK	1	1	15.42	15.88	16.01	17.00
	CP-OFDM 16QAM	1	1	15.35	15.82	15.92	17.00
	CP-OFDM 64QAM	1	1	16.11	16.13	16.02	17.00
	CP-OFDM 256QAM	1	1	16.18	16.46	16.60	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	15.66	16.47	16.29	17.00
		1	104	16.00	16.01	16.05	17.00
		50	25	16.17	15.79	15.93	17.00
		100	0	16.06	15.67	15.94	17.00
	DFT-s-OFDM QPSK	1	1	15.49	16.10	16.11	17.00
		1	104	16.06	16.18	16.09	17.00
		50	25	15.92	15.82	15.87	17.00
		100	0	15.95	15.97	15.99	17.00
	DFT-s-OFDM 16QAM	1	1	15.21	15.99	15.82	17.00
	DFT-s-OFDM 64QAM	1	1	15.60	16.11	16.14	17.00
	DFT-s-OFDM 256QAM	1	1	15.80	16.01	15.93	17.00
	CP-OFDM QPSK	1	1	15.52	15.88	16.07	17.00
	CP-OFDM 16QAM	1	1	15.43	15.68	15.92	17.00
	CP-OFDM 64QAM	1	1	16.05	16.15	15.86	17.00
	CP-OFDM 256QAM	1	1	16.02	16.52	16.46	17.00
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	15.54	16.37	16.27	17.00
		1	131	16.22	16.23	16.19	17.00
		64	32	16.13	15.83	16.05	17.00
		128	0	16.18	15.89	15.96	17.00
	DFT-s-OFDM QPSK	1	1	15.65	16.22	16.09	17.00
		1	131	16.08	16.28	15.97	17.00
		64	32	15.94	15.88	16.11	17.00
		128	0	15.97	16.07	15.93	17.00
	DFT-s-OFDM 16QAM	1	1	15.39	16.29	15.90	17.00
	DFT-s-OFDM 64QAM	1	1	15.66	16.15	15.90	17.00
	DFT-s-OFDM 256QAM	1	1	15.86	16.17	15.87	17.00
	CP-OFDM QPSK	1	1	15.58	15.98	15.97	17.00
	CP-OFDM 16QAM	1	1	15.43	16.02	16.16	17.00
	CP-OFDM 64QAM	1	1	15.97	16.39	15.82	17.00
	CP-OFDM 256QAM	1	1	15.92	16.56	16.36	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	15.74	16.07	16.29	17.00
		1	160	16.26	16.09	16.07	17.00

	DFT-s-OFDM QPSK	81	40	16.09	15.87	16.07	17.00
		162	0	15.90	15.95	15.88	17.00
		1	1	15.47	16.34	16.13	17.00
		1	160	15.84	16.02	16.07	17.00
		81	40	16.10	15.90	15.89	17.00
		162	0	15.97	15.93	15.91	17.00
	DFT-s-OFDM 16QAM	1	1	15.43	16.15	15.72	17.00
	DFT-s-OFDM 64QAM	1	1	15.58	16.03	15.86	17.00
	DFT-s-OFDM 256QAM	1	1	15.66	16.13	15.89	17.00
	CP-OFDM QPSK	1	1	15.68	16.12	15.97	17.00
	CP-OFDM 16QAM	1	1	15.31	15.98	15.90	17.00
	CP-OFDM 64QAM	1	1	15.71	16.23	15.86	17.00
	CP-OFDM 256QAM	1	1	15.82	16.58	16.18	17.00
	Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)		
506202/2531.01					518598/2595.99	531000/2655	
70MHz	DFT-s-OFDM BPSK	1	1	15.68	16.21	16.49	17.00
		1	160	16.44	15.99	15.87	17.00
		81	40	15.99	15.79	15.99	17.00
		162	0	15.64	16.07	15.82	17.00
	DFT-s-OFDM QPSK	1	1	15.63	16.26	15.95	17.00
		1	160	15.70	15.98	16.23	17.00
		81	40	16.12	15.74	15.97	17.00
		162	0	15.89	16.19	15.95	17.00
	DFT-s-OFDM 16QAM	1	1	15.45	16.31	15.84	17.00
	DFT-s-OFDM 64QAM	1	1	15.42	16.15	15.94	17.00
	DFT-s-OFDM 256QAM	1	1	15.68	16.09	15.61	17.00
	CP-OFDM QPSK	1	1	15.70	16.36	15.87	17.00
	CP-OFDM 16QAM	1	1	15.25	15.88	15.92	17.00
	CP-OFDM 64QAM	1	1	15.45	16.23	15.50	17.00
CP-OFDM 256QAM	1	1	16.00	16.44	16.14	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	15.82	16.19	16.43	17.00
		1	215	16.48	16.03	16.09	17.00
		108	54	16.05	15.73	16.23	17.00
		216	0	16.14	16.17	15.98	17.00

	DFT-s-OFDM QPSK	1	1	15.43	16.28	15.95	17.00
		1	215	16.02	16.24	16.01	17.00
		108	54	16.20	15.82	16.15	17.00
		216	0	15.99	15.83	15.85	17.00
	DFT-s-OFDM 16QAM	1	1	15.45	16.21	16.04	17.00
	DFT-s-OFDM 64QAM	1	1	15.72	15.89	16.18	17.00
	DFT-s-OFDM 256QAM	1	1	15.76	16.35	16.07	17.00
	CP-OFDM QPSK	1	1	15.52	15.96	16.07	17.00
	CP-OFDM 16QAM	1	1	15.69	15.80	16.08	17.00
	CP-OFDM 64QAM	1	1	15.85	16.39	15.68	17.00
	CP-OFDM 256QAM	1	1	15.88	16.52	16.30	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	15.68	16.13	16.33	17.00
		1	243	16.28	16.11	16.21	17.00
		120	60	16.15	16.05	15.97	17.00
		243	0	15.96	16.07	16.00	17.00
	DFT-s-OFDM QPSK	1	1	15.71	16.40	16.25	17.00
		1	243	16.16	16.10	15.91	17.00
		120	60	16.04	16.04	15.99	17.00
		243	0	15.99	16.09	16.05	17.00
	DFT-s-OFDM 16QAM	1	1	15.47	16.15	15.88	17.00
	DFT-s-OFDM 64QAM	1	1	15.60	16.13	15.90	17.00
	DFT-s-OFDM 256QAM	1	1	15.92	16.21	16.07	17.00
	CP-OFDM QPSK	1	1	15.70	16.16	15.95	17.00
	CP-OFDM 16QAM	1	1	15.53	15.86	16.04	17.00
	CP-OFDM 64QAM	1	1	15.85	16.17	15.78	17.00
	CP-OFDM 256QAM	1	1	15.76	16.44	16.32	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	15.64	16.25	16.21	17.00
		1	271	16.26	16.09	16.07	17.00
		135	67	16.05	15.89	16.01	17.00
		270	0	16.02	15.95	16.02	17.00
	DFT-s-OFDM QPSK	1	1	15.55	16.28	16.07	17.00
		1	271	16.04	16.12	16.03	17.00

		135	67	16.02	15.90	15.97	17.00
		270	0	16.01	16.01	15.99	17.00
	DFT-s-OFDM 16QAM	1	1	15.49	16.17	15.90	17.00
	DFT-s-OFDM 64QAM	1	1	15.62	16.07	16.00	17.00
	DFT-s-OFDM 256QAM	1	1	15.78	16.27	15.95	17.00
	CP-OFDM QPSK	1	1	15.62	16.08	16.03	17.00
	CP-OFDM 16QAM	1	1	15.51	15.90	16.04	17.00
	CP-OFDM 64QAM	1	1	15.85	16.25	15.86	17.00
	CP-OFDM 256QAM	1	1	15.84	16.48	16.24	17.00
n41							
Receiver off--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	17.75	17.94	17.88	18.50
		1	49	17.99	18.32	18.21	18.50
		25	12	18.00	18.00	18.17	18.50
		50	0	17.85	18.10	18.12	18.50
	DFT-s-OFDM QPSK	1	1	17.27	18.25	17.52	18.50
		1	49	18.11	18.23	18.03	18.50
		25	12	18.17	17.76	17.86	18.50
		50	0	18.20	18.06	18.11	18.50
	DFT-s-OFDM 16QAM	1	1	17.78	18.15	17.72	18.50
	DFT-s-OFDM 64QAM	1	1	17.45	18.06	18.10	18.50
	DFT-s-OFDM 256QAM	1	1	17.79	18.31	17.86	18.50
	CP-OFDM QPSK	1	1	17.75	18.43	17.87	18.50
	CP-OFDM 16QAM	1	1	17.14	17.81	17.80	18.50
	CP-OFDM 64QAM	1	1	17.93	17.90	18.02	18.50
	CP-OFDM 256QAM	1	1	16.71	17.87	16.77	18.50
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	17.67	18.02	17.62	18.50
		1	76	18.21	18.18	18.03	18.50
		36	18	18.04	17.88	18.15	18.50
		75	0	17.91	18.20	18.16	18.50
	DFT-s-OFDM QPSK	1	1	17.57	18.41	17.80	18.50
		1	76	18.15	18.23	18.09	18.50

		36	18	17.63	18.24	17.98	18.50
		75	0	18.05	18.12	18.13	18.50
	DFT-s-OFDM 16QAM	1	1	18.04	17.88	17.99	18.50
	DFT-s-OFDM 64QAM	1	1	18.03	18.04	18.08	18.50
	DFT-s-OFDM 256QAM	1	1	17.55	18.23	17.92	18.50
	CP-OFDM QPSK	1	1	18.01	18.07	18.05	18.50
	CP-OFDM 16QAM	1	1	18.01	17.82	17.94	18.50
	CP-OFDM 64QAM	1	1	18.04	17.96	18.05	18.50
	CP-OFDM 256QAM	1	1	17.48	18.15	17.80	18.50
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	17.67	18.00	17.74	18.50
		1	104	18.07	18.12	18.07	18.50
		50	25	18.00	17.98	17.99	18.50
		100	0	18.03	18.04	18.14	18.50
	DFT-s-OFDM QPSK	1	1	17.45	18.23	17.68	18.50
		1	104	18.09	18.17	17.95	18.50
		50	25	18.01	17.88	17.88	18.50
		100	0	18.08	18.00	17.99	18.50
	DFT-s-OFDM 16QAM	1	1	17.64	18.15	17.68	18.50
	DFT-s-OFDM 64QAM	1	1	17.41	17.94	17.92	18.50
	DFT-s-OFDM 256QAM	1	1	17.61	18.37	17.68	18.50
	CP-OFDM QPSK	1	1	17.63	18.29	18.03	18.50
	CP-OFDM 16QAM	1	1	17.32	17.93	17.98	18.50
	CP-OFDM 64QAM	1	1	17.87	17.98	17.82	18.50
	CP-OFDM 256QAM	1	1	16.67	18.01	16.89	18.50
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	17.71	18.22	17.96	18.50
		1	131	18.21	18.20	18.21	18.50
		64	32	17.96	17.90	17.89	18.50
		128	0	18.13	17.94	18.10	18.50
	DFT-s-OFDM QPSK	1	1	17.69	18.17	17.98	18.50
		1	131	17.97	18.19	17.97	18.50
		64	32	18.17	17.80	17.90	18.50
		128	0	17.94	17.90	18.07	18.50

	DFT-s-OFDM 16QAM	1	1	17.38	18.05	17.76	18.50
	DFT-s-OFDM 64QAM	1	1	17.71	18.02	17.94	18.50
	DFT-s-OFDM 256QAM	1	1	17.71	18.27	17.92	18.50
	CP-OFDM QPSK	1	1	17.47	18.37	17.97	18.50
	CP-OFDM 16QAM	1	1	17.58	18.27	17.98	18.50
	CP-OFDM 64QAM	1	1	17.93	18.10	17.68	18.50
	CP-OFDM 256QAM	1	1	16.55	18.23	16.97	18.50
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	17.49	18.24	18.08	18.50
		1	160	17.97	18.04	18.23	18.50
		81	40	18.10	17.68	18.05	18.50
		162	0	17.95	18.06	17.96	18.50
	DFT-s-OFDM QPSK	1	1	17.39	18.21	18.00	18.50
		1	160	18.01	17.95	17.89	18.50
		81	40	17.95	17.70	17.78	18.50
		162	0	18.00	17.76	17.91	18.50
	DFT-s-OFDM 16QAM	1	1	17.28	18.15	17.64	18.50
	DFT-s-OFDM 64QAM	1	1	17.45	17.90	17.90	18.50
	DFT-s-OFDM 256QAM	1	1	17.65	18.29	17.72	18.50
	CP-OFDM QPSK	1	1	17.47	18.05	17.89	18.50
	CP-OFDM 16QAM	1	1	17.26	18.01	18.06	18.50
	CP-OFDM 64QAM	1	1	17.79	18.10	17.68	18.50
	CP-OFDM 256QAM	1	1	16.67	18.15	16.83	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				506202/2531.01	518598/2595.99	531000/2655	
70MHz	DFT-s-OFDM BPSK	1	1	17.53	18.24	17.96	18.50
		1	160	17.97	18.02	18.25	18.50
		81	40	18.04	17.72	18.05	18.50
		162	0	18.11	18.06	18.12	18.50
	DFT-s-OFDM QPSK	1	1	17.51	18.33	18.16	18.50
		1	160	18.13	17.97	18.05	18.50
		81	40	17.97	17.84	17.84	18.50
		162	0	17.96	17.90	18.05	18.50
	DFT-s-OFDM 16QAM	1	1	17.18	18.29	17.56	18.50

	DFT-s-OFDM 64QAM	1	1	17.33	17.88	17.92	18.50
	DFT-s-OFDM 256QAM	1	1	17.81	18.37	17.78	18.50
	CP-OFDM QPSK	1	1	17.55	17.97	18.07	18.50
	CP-OFDM 16QAM	1	1	17.42	18.19	18.20	18.50
	CP-OFDM 64QAM	1	1	17.79	18.08	17.70	18.50
	CP-OFDM 256QAM	1	1	16.77	18.11	16.89	18.50
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	17.85	18.16	18.16	18.50
		1	215	18.03	18.14	18.07	18.50
		108	54	18.22	17.78	18.03	18.50
		216	0	17.99	18.04	18.26	18.50
	DFT-s-OFDM QPSK	1	1	17.41	18.37	17.82	18.50
		1	215	18.15	18.15	17.95	18.50
		108	54	18.15	17.82	17.98	18.50
		216	0	18.26	17.86	17.95	18.50
	DFT-s-OFDM 16QAM	1	1	17.64	18.17	17.64	18.50
	DFT-s-OFDM 64QAM	1	1	17.59	17.96	17.74	18.50
	DFT-s-OFDM 256QAM	1	1	17.55	18.09	18.02	18.50
	CP-OFDM QPSK	1	1	17.51	18.33	17.93	18.50
	CP-OFDM 16QAM	1	1	17.42	18.37	18.20	18.50
	CP-OFDM 64QAM	1	1	17.95	18.06	17.86	18.50
	CP-OFDM 256QAM	1	1	16.75	18.29	17.09	18.50
Bandwidth	Modulation	RB allocation	offset				Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	17.63	18.24	17.98	18.50
		1	243	18.05	18.12	18.13	18.50
		120	60	18.04	17.88	17.99	18.50
		243	0	18.03	18.04	18.08	18.50
	DFT-s-OFDM QPSK	1	1	17.55	18.23	17.92	18.50
		1	243	18.01	18.07	18.05	18.50
		120	60	18.01	17.82	17.94	18.50
		243	0	18.04	17.96	18.05	18.50
	DFT-s-OFDM 16QAM	1	1	17.48	18.15	17.80	18.50
	DFT-s-OFDM 64QAM	1	1	17.59	18.00	17.90	18.50

	DFT-s-OFDM 256QAM	1	1	17.57	18.23	17.84	18.50
	CP-OFDM QPSK	1	1	17.57	18.21	17.93	18.50
	CP-OFDM 16QAM	1	1	17.44	18.17	18.00	18.50
	CP-OFDM 64QAM	1	1	17.81	18.04	17.78	18.50
	CP-OFDM 256QAM	1	1	16.61	18.21	16.99	18.50
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	17.63	18.24	17.98	18.50
		1	271	18.05	18.12	18.13	18.50
		135	67	18.04	17.88	17.99	18.50
		270	0	18.03	18.04	18.08	18.50
	DFT-s-OFDM QPSK	1	1	17.55	18.23	17.92	18.50
		1	271	18.01	18.07	18.05	18.50
		135	67	18.01	17.82	17.94	18.50
		270	0	18.04	17.96	18.05	18.50
	DFT-s-OFDM 16QAM	1	1	17.48	18.15	17.80	18.50
	DFT-s-OFDM 64QAM	1	1	17.59	18.00	17.90	18.50
	DFT-s-OFDM 256QAM	1	1	17.57	18.23	17.84	18.50
	CP-OFDM QPSK	1	1	17.57	18.21	17.93	18.50
	CP-OFDM 16QAM	1	1	17.44	18.17	18.00	18.50
	CP-OFDM 64QAM	1	1	17.81	18.04	17.78	18.50
	CP-OFDM 256QAM	1	1	16.61	18.21	16.99	18.50
n41							
Hotspot on--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	12.76	13.69	12.81	14.00
		1	49	13.43	13.34	13.35	14.00
		25	12	13.13	12.78	13.26	14.00
		50	0	12.85	13.18	13.37	14.00
	DFT-s-OFDM QPSK	1	1	12.75	13.28	12.65	14.00
		1	49	13.11	13.53	13.37	14.00
		25	12	12.89	12.97	13.14	14.00
		50	0	13.12	12.98	13.07	14.00
	DFT-s-OFDM 16QAM	1	1	12.53	13.38	12.99	14.00
	DFT-s-OFDM 64QAM	1	1	13.10	13.00	12.93	14.00

	DFT-s-OFDM 256QAM	1	1	12.89	13.24	12.96	14.00
	CP-OFDM QPSK	1	1	12.77	13.04	12.73	14.00
	CP-OFDM 16QAM	1	1	12.75	12.99	13.11	14.00
	CP-OFDM 64QAM	1	1	13.09	13.07	12.91	14.00
	CP-OFDM 256QAM	1	1	13.08	13.55	13.31	14.00
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	12.84	13.49	13.07	14.00
		1	76	13.43	13.30	13.49	14.00
		36	18	12.97	12.78	13.30	14.00
		75	0	12.85	13.16	13.33	14.00
	DFT-s-OFDM QPSK	1	1	12.81	13.00	12.77	14.00
		1	76	13.03	13.25	13.09	14.00
		36	18	13.15	13.09	12.98	14.00
		75	0	13.04	13.08	13.09	14.00
	DFT-s-OFDM 16QAM	1	1	12.55	13.24	13.19	14.00
	DFT-s-OFDM 64QAM	1	1	13.00	13.12	12.79	14.00
	DFT-s-OFDM 256QAM	1	1	12.95	13.10	13.10	14.00
	CP-OFDM QPSK	1	1	12.81	13.20	12.87	14.00
	CP-OFDM 16QAM	1	1	12.97	12.97	12.89	14.00
	CP-OFDM 64QAM	1	1	12.87	13.17	13.03	14.00
	CP-OFDM 256QAM	1	1	12.78	13.63	13.39	14.00
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	12.70	13.47	12.97	14.00
		1	104	13.43	13.26	13.31	14.00
		50	25	13.07	12.70	13.26	14.00
		100	0	12.71	12.98	13.19	14.00
	DFT-s-OFDM QPSK	1	1	12.75	13.10	12.77	14.00
		1	104	12.95	13.31	13.17	14.00
		50	25	13.07	13.07	12.92	14.00
		100	0	13.00	13.06	12.97	14.00
	DFT-s-OFDM 16QAM	1	1	12.57	13.34	13.09	14.00
	DFT-s-OFDM 64QAM	1	1	12.98	13.00	12.75	14.00
	DFT-s-OFDM 256QAM	1	1	12.83	13.12	13.12	14.00

	CP-OFDM QPSK	1	1	12.77	13.16	12.91	14.00
	CP-OFDM 16QAM	1	1	12.85	13.05	12.95	14.00
	CP-OFDM 64QAM	1	1	12.91	13.01	12.95	14.00
	CP-OFDM 256QAM	1	1	12.88	13.49	13.23	14.00
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	12.84	13.15	12.95	14.00
		1	131	13.17	13.40	13.11	14.00
		64	32	13.13	13.02	13.02	14.00
		128	0	12.93	13.08	13.19	14.00
	DFT-s-OFDM QPSK	1	1	12.57	13.40	13.03	14.00
		1	131	13.23	13.35	13.23	14.00
		64	32	12.97	12.91	13.06	14.00
		128	0	13.04	13.06	13.27	14.00
	DFT-s-OFDM 16QAM	1	1	12.69	13.16	12.83	14.00
	DFT-s-OFDM 64QAM	1	1	12.74	12.94	12.93	14.00
	DFT-s-OFDM 256QAM	1	1	12.81	13.38	12.96	14.00
	CP-OFDM QPSK	1	1	12.75	13.08	13.13	14.00
	CP-OFDM 16QAM	1	1	12.61	12.83	13.15	14.00
	CP-OFDM 64QAM	1	1	12.95	13.29	13.01	14.00
	CP-OFDM 256QAM	1	1	12.80	13.65	13.23	14.00
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	12.72	13.11	12.83	14.00
		1	160	13.05	13.30	12.95	14.00
		81	40	12.81	12.78	12.84	14.00
		162	0	12.97	13.00	13.17	14.00
	DFT-s-OFDM QPSK	1	1	12.75	13.06	12.97	14.00
		1	160	12.97	13.29	13.01	14.00
		81	40	12.89	12.95	12.98	14.00
		162	0	13.08	13.10	13.15	14.00
	DFT-s-OFDM 16QAM	1	1	12.51	13.08	12.81	14.00
	DFT-s-OFDM 64QAM	1	1	12.58	12.82	12.87	14.00
	DFT-s-OFDM 256QAM	1	1	12.83	13.10	12.82	14.00
	CP-OFDM QPSK	1	1	12.61	13.00	13.13	14.00
	CP-OFDM 16QAM	1	1	12.59	12.95	13.17	14.00

	CP-OFDM 64QAM	1	1	13.05	13.23	12.77	14.00
	CP-OFDM 256QAM	1	1	12.84	13.35	13.07	14.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				506202/2531.01	518598/2595.99	531000/2655	
70MHz	DFT-s-OFDM BPSK	1	1	12.68	12.99	12.77	14.00
		1	160	13.07	13.40	13.07	14.00
		81	40	12.99	12.86	12.76	14.00
		162	0	12.97	13.16	13.21	14.00
	DFT-s-OFDM QPSK	1	1	12.75	13.10	13.19	14.00
		1	160	13.13	13.37	13.19	14.00
		81	40	12.79	12.87	13.20	14.00
		162	0	13.00	13.04	12.99	14.00
	DFT-s-OFDM 16QAM	1	1	12.39	13.14	12.99	14.00
	DFT-s-OFDM 64QAM	1	1	12.56	12.74	12.71	14.00
	DFT-s-OFDM 256QAM	1	1	12.87	13.28	12.78	14.00
	CP-OFDM QPSK	1	1	12.53	13.04	13.31	14.00
	CP-OFDM 16QAM	1	1	12.53	13.09	13.13	14.00
	CP-OFDM 64QAM	1	1	13.05	13.09	12.89	14.00
	CP-OFDM 256QAM	1	1	12.94	13.49	13.03	14.00
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	12.76	13.41	13.03	14.00
		1	215	13.07	13.22	13.23	14.00
		108	54	13.09	13.04	13.18	14.00
		216	0	13.21	12.86	13.07	14.00
	DFT-s-OFDM QPSK	1	1	12.61	13.26	13.17	14.00
		1	215	13.15	13.35	12.99	14.00
		108	54	12.95	12.95	12.90	14.00
		216	0	13.08	12.98	13.03	14.00
	DFT-s-OFDM 16QAM	1	1	12.73	13.08	12.93	14.00
	DFT-s-OFDM 64QAM	1	1	12.58	13.16	13.11	14.00
	DFT-s-OFDM 256QAM	1	1	12.87	13.42	12.84	14.00
	CP-OFDM QPSK	1	1	12.89	13.20	12.93	14.00
	CP-OFDM 16QAM	1	1	12.59	12.99	13.19	14.00
	CP-OFDM 64QAM	1	1	12.81	13.21	12.97	14.00
	CP-OFDM 256QAM	1	1	12.80	13.53	13.45	14.00

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	12.74	13.33	12.97	14.00
		1	243	13.11	13.26	13.19	14.00
		120	60	12.89	12.94	13.06	14.00
		243	0	13.19	12.98	13.25	14.00
	DFT-s-OFDM QPSK	1	1	12.81	13.32	13.15	14.00
		1	243	13.17	13.25	13.23	14.00
		120	60	13.17	12.77	13.02	14.00
		243	0	13.14	13.04	13.23	14.00
	DFT-s-OFDM 16QAM	1	1	12.51	13.22	12.99	14.00
	DFT-s-OFDM 64QAM	1	1	12.84	13.00	12.91	14.00
	DFT-s-OFDM 256QAM	1	1	12.89	13.16	13.14	14.00
	CP-OFDM QPSK	1	1	12.79	13.20	13.05	14.00
	CP-OFDM 16QAM	1	1	12.79	12.89	13.19	14.00
	CP-OFDM 64QAM	1	1	13.13	13.25	12.93	14.00
	CP-OFDM 256QAM	1	1	12.86	13.55	13.37	14.00
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	12.70	13.23	12.97	14.00
		1	271	13.13	13.28	13.15	14.00
		135	67	13.01	12.86	12.98	14.00
		270	0	13.03	13.02	13.13	14.00
	DFT-s-OFDM QPSK	1	1	12.65	13.24	12.97	14.00
		1	271	13.07	13.21	13.09	14.00
		135	67	13.07	12.87	13.00	14.00
		270	0	13.06	13.04	13.11	14.00
	DFT-s-OFDM 16QAM	1	1	12.59	13.20	12.87	14.00
	DFT-s-OFDM 64QAM	1	1	12.68	13.02	12.95	14.00
	DFT-s-OFDM 256QAM	1	1	12.87	13.22	13.00	14.00
	CP-OFDM QPSK	1	1	12.71	13.08	13.05	14.00
	CP-OFDM 16QAM	1	1	12.63	12.91	13.07	14.00
	CP-OFDM 64QAM	1	1	12.99	13.23	12.91	14.00
	CP-OFDM 256QAM	1	1	12.90	13.51	13.25	14.00
n41							
Receiver on--Ant4				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	16.31	15.97	16.43	16.80
		1	49	16.55	16.22	16.42	16.80
		25	12	16.12	16.14	16.07	16.80
		50	0	16.12	16.47	16.07	16.80
	DFT-s-OFDM QPSK	1	1	16.17	16.54	16.06	16.80
		1	49	16.21	15.88	16.16	16.80
		25	12	16.49	16.22	15.92	16.80
		50	0	16.13	16.30	16.26	16.80
	DFT-s-OFDM 16QAM	1	1	16.65	16.34	16.55	16.80
	DFT-s-OFDM 64QAM	1	1	15.89	15.98	15.84	16.80
	DFT-s-OFDM 256QAM	1	1	16.40	16.23	16.36	16.80
	CP-OFDM QPSK	1	1	15.74	16.36	16.65	16.80
	CP-OFDM 16QAM	1	1	15.79	16.40	16.28	16.80
	CP-OFDM 64QAM	1	1	15.97	15.96	16.57	16.80
	CP-OFDM 256QAM	1	1	16.29	16.42	16.76	16.80
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	16.49	16.13	16.63	16.80
		1	76	16.53	16.04	16.44	16.80
		36	18	15.90	16.34	16.25	16.80
		75	0	16.14	16.21	16.03	16.80
	DFT-s-OFDM QPSK	1	1	16.27	16.24	16.34	16.80
		1	76	16.17	16.16	16.30	16.80
		36	18	16.47	16.00	16.02	16.80
		75	0	16.09	16.48	16.16	16.80
	DFT-s-OFDM 16QAM	1	1	16.61	16.22	16.55	16.80
	DFT-s-OFDM 64QAM	1	1	15.77	15.94	15.96	16.80
	DFT-s-OFDM 256QAM	1	1	16.36	16.09	16.08	16.80
	CP-OFDM QPSK	1	1	15.78	16.56	16.43	16.80
	CP-OFDM 16QAM	1	1	15.73	16.46	16.34	16.80
	CP-OFDM 64QAM	1	1	16.07	16.04	16.59	16.80
	CP-OFDM 256QAM	1	1	16.33	16.18	16.70	16.80
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	16.49	16.09	16.55	16.80
		1	104	16.61	16.08	16.38	16.80
		50	25	16.02	16.20	16.07	16.80
		100	0	16.22	16.29	16.09	16.80
	DFT-s-OFDM QPSK	1	1	16.27	16.32	16.16	16.80
		1	104	16.13	16.02	16.22	16.80
		50	25	16.51	16.12	16.10	16.80
		100	0	16.21	16.38	16.22	16.80
	DFT-s-OFDM 16QAM	1	1	16.49	16.18	16.41	16.80
	DFT-s-OFDM 64QAM	1	1	15.89	15.76	15.80	16.80
	DFT-s-OFDM 256QAM	1	1	16.18	16.15	16.14	16.80
	CP-OFDM QPSK	1	1	15.84	16.44	16.49	16.80
	CP-OFDM 16QAM	1	1	15.79	16.44	16.16	16.80
	CP-OFDM 64QAM	1	1	15.93	16.14	16.51	16.80
	CP-OFDM 256QAM	1	1	16.45	16.22	16.80	16.80
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	16.21	16.21	16.47	16.80
		1	131	16.55	16.00	16.34	16.80
		64	32	16.28	16.24	15.89	16.80
		128	0	16.40	15.99	16.35	16.80
	DFT-s-OFDM QPSK	1	1	16.09	16.28	16.44	16.80
		1	131	16.37	16.04	16.22	16.80
		64	32	16.37	16.32	16.22	16.80
		128	0	16.35	16.20	16.32	16.80
	DFT-s-OFDM 16QAM	1	1	16.37	16.50	16.51	16.80
	DFT-s-OFDM 64QAM	1	1	15.77	15.94	16.20	16.80
	DFT-s-OFDM 256QAM	1	1	16.02	16.39	16.40	16.80
	CP-OFDM QPSK	1	1	16.10	16.16	16.63	16.80
	CP-OFDM 16QAM	1	1	15.85	16.32	15.92	16.80
	CP-OFDM 64QAM	1	1	15.85	16.20	16.27	16.80
	CP-OFDM 256QAM	1	1	16.13	16.28	16.40	16.80
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	16.25	16.15	16.27	16.80
		1	160	16.27	16.06	16.10	16.80

		81	40	16.32	16.20	16.03	16.80
		162	0	16.26	15.87	16.09	16.80
	DFT-s-OFDM QPSK	1	1	16.01	16.28	16.22	16.80
		1	160	16.29	15.96	16.06	16.80
		81	40	16.17	16.16	16.10	16.80
		162	0	16.19	16.36	16.14	16.80
	DFT-s-OFDM 16QAM	1	1	16.03	16.48	16.33	16.80
	DFT-s-OFDM 64QAM	1	1	15.95	16.12	16.02	16.80
	DFT-s-OFDM 256QAM	1	1	16.10	16.17	16.42	16.80
	CP-OFDM QPSK	1	1	15.86	16.10	16.37	16.80
	CP-OFDM 16QAM	1	1	15.79	16.06	15.88	16.80
	CP-OFDM 64QAM	1	1	15.83	16.08	16.17	16.80
	CP-OFDM 256QAM	1	1	16.07	16.10	16.30	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				506202/2531.01	518598/2595.99	531000/2655	
70MHz	DFT-s-OFDM BPSK	1	1	16.15	16.05	16.35	16.80
		1	160	16.25	15.96	16.18	16.80
		81	40	16.20	16.36	15.93	16.80
		162	0	16.32	15.79	16.11	16.80
	DFT-s-OFDM QPSK	1	1	15.99	16.46	16.30	16.80
		1	160	16.31	16.08	16.06	16.80
		81	40	16.19	16.28	16.06	16.80
		162	0	16.11	16.24	16.26	16.80
	DFT-s-OFDM 16QAM	1	1	16.11	16.56	16.33	16.80
	DFT-s-OFDM 64QAM	1	1	15.83	16.16	15.94	16.80
	DFT-s-OFDM 256QAM	1	1	16.04	16.31	16.44	16.80
	CP-OFDM QPSK	1	1	15.78	16.16	16.49	16.80
	CP-OFDM 16QAM	1	1	15.81	16.18	15.92	16.80
	CP-OFDM 64QAM	1	1	15.81	16.10	16.21	16.80
	CP-OFDM 256QAM	1	1	16.07	16.20	16.28	16.80
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	16.27	16.21	16.47	16.80
		1	215	16.51	15.88	16.46	16.80
		108	54	16.36	16.38	16.01	16.80
		216	0	16.28	15.91	16.09	16.80

	DFT-s-OFDM QPSK	1	1	16.03	16.16	16.24	16.80
		1	215	16.45	16.16	16.28	16.80
		108	54	16.17	16.16	15.96	16.80
		216	0	16.43	16.34	16.24	16.80
	DFT-s-OFDM 16QAM	1	1	16.43	16.36	16.57	16.80
	DFT-s-OFDM 64QAM	1	1	15.97	16.18	16.22	16.80
	DFT-s-OFDM 256QAM	1	1	16.20	16.05	16.64	16.80
	CP-OFDM QPSK	1	1	16.18	15.98	16.47	16.80
	CP-OFDM 16QAM	1	1	15.93	16.26	16.20	16.80
	CP-OFDM 64QAM	1	1	16.05	16.30	16.19	16.80
	CP-OFDM 256QAM	1	1	16.11	16.08	16.64	16.80
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	16.31	16.21	16.39	16.80
		1	243	16.49	16.02	16.40	16.80
		120	60	16.34	16.24	16.03	16.80
		243	0	16.44	16.21	16.41	16.80
	DFT-s-OFDM QPSK	1	1	16.01	16.42	16.54	16.80
		1	243	16.35	16.10	16.32	16.80
		120	60	16.47	16.36	16.22	16.80
		243	0	16.31	16.46	16.28	16.80
	DFT-s-OFDM 16QAM	1	1	16.25	16.56	16.59	16.80
	DFT-s-OFDM 64QAM	1	1	15.81	16.04	16.26	16.80
	DFT-s-OFDM 256QAM	1	1	16.12	16.31	16.48	16.80
	CP-OFDM QPSK	1	1	16.14	16.16	16.41	16.80
	CP-OFDM 16QAM	1	1	15.77	16.36	16.08	16.80
	CP-OFDM 64QAM	1	1	16.01	16.18	16.31	16.80
	CP-OFDM 256QAM	1	1	16.21	16.34	16.40	16.80
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	16.19	16.27	16.33	16.80
		1	271	16.41	16.04	16.24	16.80
		135	67	16.28	16.32	15.99	16.80
		270	0	16.30	16.07	16.23	16.80
	DFT-s-OFDM QPSK	1	1	16.11	16.26	16.36	16.80
		1	271	16.43	16.08	16.24	16.80

		135	67	16.29	16.30	16.12	16.80
		270	0	16.29	16.30	16.18	16.80
	DFT-s-OFDM 16QAM	1	1	16.23	16.52	16.47	16.80
	DFT-s-OFDM 64QAM	1	1	15.85	16.04	16.08	16.80
	DFT-s-OFDM 256QAM	1	1	16.10	16.23	16.42	16.80
	CP-OFDM QPSK	1	1	15.96	16.16	16.47	16.80
	CP-OFDM 16QAM	1	1	15.77	16.22	16.02	16.80
	CP-OFDM 64QAM	1	1	15.93	16.10	16.29	16.80
	CP-OFDM 256QAM	1	1	16.19	16.24	16.46	16.80
n41							
Receiver off--Ant4				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	19.76	19.88	19.84	20.30
		1	49	20.02	19.78	19.97	20.30
		25	12	19.58	19.64	19.76	20.30
		50	0	19.64	19.49	19.72	20.30
	DFT-s-OFDM QPSK	1	1	19.35	19.84	19.97	20.30
		1	49	20.04	19.52	19.58	20.30
		25	12	19.80	20.17	19.92	20.30
		50	0	19.39	19.66	19.81	20.30
	DFT-s-OFDM 16QAM	1	1	19.80	19.80	19.64	20.30
	DFT-s-OFDM 64QAM	1	1	19.63	19.52	19.38	20.30
	DFT-s-OFDM 256QAM	1	1	18.79	19.69	19.76	20.30
	CP-OFDM QPSK	1	1	19.76	19.94	19.85	20.30
	CP-OFDM 16QAM	1	1	19.36	20.24	19.62	20.30
	CP-OFDM 64QAM	1	1	19.52	19.62	20.06	20.30
	CP-OFDM 256QAM	1	1	17.92	18.28	18.29	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	19.72	19.76	19.68	20.30
		1	76	20.20	19.82	19.95	20.30
		36	18	19.54	19.82	19.54	20.30
		75	0	19.78	19.57	19.66	20.30
	DFT-s-OFDM QPSK	1	1	19.47	19.82	19.75	20.30
		1	76	20.12	19.56	19.64	20.30

		36	18	19.86	19.95	19.70	20.30
		75	0	19.53	19.84	19.75	20.30
	DFT-s-OFDM 16QAM	1	1	19.60	19.80	19.48	20.30
	DFT-s-OFDM 64QAM	1	1	19.81	19.38	19.56	20.30
	DFT-s-OFDM 256QAM	1	1	18.85	19.87	19.86	20.30
	CP-OFDM QPSK	1	1	19.64	19.76	19.69	20.30
	CP-OFDM 16QAM	1	1	19.44	20.04	19.44	20.30
	CP-OFDM 64QAM	1	1	19.68	19.58	19.90	20.30
	CP-OFDM 256QAM	1	1	17.92	18.34	18.13	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	19.64	19.88	19.52	20.30
		1	104	20.02	19.66	19.91	20.30
		50	25	19.54	19.90	19.40	20.30
		100	0	19.70	19.49	19.56	20.30
	DFT-s-OFDM QPSK	1	1	19.55	19.80	19.69	20.30
		1	104	20.16	19.52	19.68	20.30
		50	25	19.94	19.99	19.78	20.30
		100	0	19.53	19.92	19.75	20.30
	DFT-s-OFDM 16QAM	1	1	19.42	20.24	19.34	20.30
	DFT-s-OFDM 64QAM	1	1	19.65	19.44	19.52	20.30
	DFT-s-OFDM 256QAM	1	1	18.89	19.81	19.68	20.30
	CP-OFDM QPSK	1	1	19.46	19.66	19.57	20.30
	CP-OFDM 16QAM	1	1	19.40	19.96	19.26	20.30
	CP-OFDM 64QAM	1	1	19.64	19.66	19.96	20.30
	CP-OFDM 256QAM	1	1	18.00	18.18	18.09	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	19.60	19.76	20.00	20.30
		1	131	20.08	19.66	19.81	20.30
		64	32	19.76	19.72	19.52	20.30
		128	0	19.92	19.95	19.66	20.30
	DFT-s-OFDM QPSK	1	1	19.69	19.80	19.73	20.30
		1	131	19.90	19.60	19.54	20.30
		64	32	19.78	19.71	19.56	20.30
		128	0	19.69	19.84	19.57	20.30

	DFT-s-OFDM 16QAM	1	1	19.48	19.92	19.46	20.30
	DFT-s-OFDM 64QAM	1	1	19.53	19.70	19.58	20.30
	DFT-s-OFDM 256QAM	1	1	19.13	19.81	19.62	20.30
	CP-OFDM QPSK	1	1	19.42	19.56	19.95	20.30
	CP-OFDM 16QAM	1	1	19.54	19.84	19.56	20.30
	CP-OFDM 64QAM	1	1	19.78	19.72	19.92	20.30
	CP-OFDM 256QAM	1	1	18.02	18.20	18.01	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	19.54	19.86	19.82	20.30
		1	160	19.76	19.48	19.55	20.30
		81	40	19.84	19.74	19.68	20.30
		162	0	19.80	19.75	19.68	20.30
	DFT-s-OFDM QPSK	1	1	19.59	19.82	19.77	20.30
		1	160	19.78	19.60	19.70	20.30
		81	40	19.78	19.79	19.66	20.30
		162	0	19.75	19.90	19.53	20.30
	DFT-s-OFDM 16QAM	1	1	19.48	19.78	19.46	20.30
	DFT-s-OFDM 64QAM	1	1	19.43	19.56	19.54	20.30
	DFT-s-OFDM 256QAM	1	1	18.97	19.61	19.58	20.30
	CP-OFDM QPSK	1	1	19.24	19.68	19.65	20.30
	CP-OFDM 16QAM	1	1	19.52	19.82	19.24	20.30
	CP-OFDM 64QAM	1	1	19.68	19.52	19.82	20.30
	CP-OFDM 256QAM	1	1	17.86	18.24	18.03	19.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				506202/2531.01	518598/2595.99	531000/2655	
70MHz	DFT-s-OFDM BPSK	1	1	19.46	20.02	19.94	20.30
		1	160	19.88	19.52	19.59	20.30
		81	40	19.94	19.86	19.54	20.30
		162	0	19.64	19.97	19.78	20.30
	DFT-s-OFDM QPSK	1	1	19.65	19.64	19.91	20.30
		1	160	19.86	19.54	19.64	20.30
		81	40	19.70	19.83	19.80	20.30
		162	0	19.73	20.02	19.47	20.30
	DFT-s-OFDM 16QAM	1	1	19.34	19.82	19.48	20.30

	DFT-s-OFDM 64QAM	1	1	19.29	19.62	19.66	20.30
	DFT-s-OFDM 256QAM	1	1	19.15	19.73	19.50	20.30
	CP-OFDM QPSK	1	1	19.26	19.52	19.67	20.30
	CP-OFDM 16QAM	1	1	19.68	20.04	19.12	20.30
	CP-OFDM 64QAM	1	1	19.80	19.60	19.74	20.30
	CP-OFDM 256QAM	1	1	17.84	18.32	18.15	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	19.36	19.62	19.68	20.30
		1	215	20.10	19.72	19.63	20.30
		108	54	19.88	19.74	19.64	20.30
		216	0	19.98	20.01	19.68	20.30
	DFT-s-OFDM QPSK	1	1	19.41	19.84	19.73	20.30
		1	215	20.02	19.52	19.58	20.30
		108	54	19.58	19.65	19.52	20.30
		216	0	19.85	19.68	19.71	20.30
	DFT-s-OFDM 16QAM	1	1	19.76	20.12	19.40	20.30
	DFT-s-OFDM 64QAM	1	1	19.55	19.64	19.72	20.30
	DFT-s-OFDM 256QAM	1	1	19.27	19.73	19.66	20.30
	CP-OFDM QPSK	1	1	19.56	19.56	19.91	20.30
	CP-OFDM 16QAM	1	1	19.34	19.70	19.36	20.30
	CP-OFDM 64QAM	1	1	19.76	19.70	19.92	20.30
	CP-OFDM 256QAM	1	1	18.28	18.40	18.27	19.30
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	19.46	19.92	19.80	20.30
		1	243	19.90	19.72	19.71	20.30
		120	60	19.94	19.84	19.56	20.30
		243	0	19.68	19.89	19.82	20.30
	DFT-s-OFDM QPSK	1	1	19.69	19.72	19.95	20.30
		1	243	20.00	19.70	19.66	20.30
		120	60	19.68	19.61	19.60	20.30
		243	0	19.75	19.88	19.71	20.30
	DFT-s-OFDM 16QAM	1	1	19.66	19.88	19.50	20.30
	DFT-s-OFDM 64QAM	1	1	19.35	19.84	19.64	20.30

	DFT-s-OFDM 256QAM	1	1	19.25	19.85	19.74	20.30
	CP-OFDM QPSK	1	1	19.60	19.84	19.73	20.30
	CP-OFDM 16QAM	1	1	19.48	19.90	19.38	20.30
	CP-OFDM 64QAM	1	1	19.62	19.86	19.98	20.30
	CP-OFDM 256QAM	1	1	18.16	18.10	18.01	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	19.54	19.78	19.84	20.30
		1	271	19.94	19.56	19.73	20.30
		135	67	19.76	19.70	19.58	20.30
		270	0	19.78	19.81	19.70	20.30
	DFT-s-OFDM QPSK	1	1	19.55	19.74	19.79	20.30
		1	271	19.88	19.52	19.62	20.30
		135	67	19.72	19.71	19.60	20.30
		270	0	19.73	19.80	19.67	20.30
	DFT-s-OFDM 16QAM	1	1	19.56	19.98	19.44	20.30
	DFT-s-OFDM 64QAM	1	1	19.39	19.66	19.56	20.30
	DFT-s-OFDM 256QAM	1	1	19.11	19.67	19.62	20.30
	CP-OFDM QPSK	1	1	19.44	19.66	19.79	20.30
	CP-OFDM 16QAM	1	1	19.48	19.78	19.42	20.30
	CP-OFDM 64QAM	1	1	19.70	19.70	19.80	20.30
	CP-OFDM 256QAM	1	1	18.06	18.20	18.07	19.30
n41							
Hotspot on--Ant4				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	13.99	14.28	14.15	14.80
		1	49	14.44	13.85	14.48	14.80
		25	12	14.07	14.07	14.19	14.80
		50	0	14.58	14.09	14.28	14.80
	DFT-s-OFDM QPSK	1	1	14.01	14.24	13.89	14.80
		1	49	14.44	14.30	14.11	14.80
		25	12	14.19	14.50	14.42	14.80
		50	0	14.03	14.49	14.23	14.80
	DFT-s-OFDM 16QAM	1	1	14.11	14.10	14.18	14.80
	DFT-s-OFDM 64QAM	1	1	13.84	14.09	14.53	14.80

	DFT-s-OFDM 256QAM	1	1	14.16	14.19	14.59	14.80
	CP-OFDM QPSK	1	1	14.10	14.21	14.53	14.80
	CP-OFDM 16QAM	1	1	13.75	14.47	14.13	14.80
	CP-OFDM 64QAM	1	1	14.26	13.25	14.22	14.80
	CP-OFDM 256QAM	1	1	14.53	14.19	14.39	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	13.87	14.32	14.17	14.80
		1	76	14.46	13.89	14.40	14.80
		36	18	14.23	14.23	14.15	14.80
		75	0	14.52	14.15	14.08	14.80
	DFT-s-OFDM QPSK	1	1	14.27	14.46	14.01	14.80
		1	76	14.50	14.24	14.15	14.80
		36	18	14.31	14.24	14.38	14.80
		75	0	14.29	14.33	14.33	14.80
	DFT-s-OFDM 16QAM	1	1	14.07	13.98	14.10	14.80
	DFT-s-OFDM 64QAM	1	1	13.88	14.31	14.51	14.80
	DFT-s-OFDM 256QAM	1	1	13.92	14.15	14.55	14.80
	CP-OFDM QPSK	1	1	14.08	14.21	14.31	14.80
	CP-OFDM 16QAM	1	1	13.81	14.37	14.15	14.80
	CP-OFDM 64QAM	1	1	14.06	13.53	14.04	14.80
	CP-OFDM 256QAM	1	1	14.39	14.19	14.57	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	13.91	14.20	14.01	14.80
		1	104	14.40	13.89	14.30	14.80
		50	25	14.19	14.25	14.01	14.80
		100	0	14.46	14.17	14.12	14.80
	DFT-s-OFDM QPSK	1	1	14.19	14.38	13.99	14.80
		1	104	14.52	14.22	14.27	14.80
		50	25	14.21	14.32	14.42	14.80
		100	0	14.21	14.35	14.15	14.80
	DFT-s-OFDM 16QAM	1	1	14.17	14.08	14.12	14.80
	DFT-s-OFDM 64QAM	1	1	14.00	14.25	14.41	14.80
	DFT-s-OFDM 256QAM	1	1	14.02	14.19	14.51	14.80

	CP-OFDM QPSK	1	1	14.04	14.23	14.41	14.80
	CP-OFDM 16QAM	1	1	13.91	14.41	14.03	14.80
	CP-OFDM 64QAM	1	1	14.18	13.41	14.04	14.80
	CP-OFDM 256QAM	1	1	14.41	14.07	14.49	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	14.07	14.42	14.25	14.80
		1	131	14.38	14.05	14.20	14.80
		64	32	14.25	14.35	14.13	14.80
		128	0	14.28	14.51	14.20	14.80
	DFT-s-OFDM QPSK	1	1	13.99	14.12	14.37	14.80
		1	131	14.44	14.12	14.35	14.80
		64	32	14.37	14.28	14.12	14.80
		128	0	14.15	14.37	14.41	14.80
	DFT-s-OFDM 16QAM	1	1	14.13	14.22	14.10	14.80
	DFT-s-OFDM 64QAM	1	1	14.02	14.39	14.03	14.80
	DFT-s-OFDM 256QAM	1	1	13.80	14.03	14.37	14.80
	CP-OFDM QPSK	1	1	14.08	14.17	14.31	14.80
	CP-OFDM 16QAM	1	1	14.15	14.37	14.13	14.80
	CP-OFDM 64QAM	1	1	14.48	13.51	14.32	14.80
	CP-OFDM 256QAM	1	1	14.43	14.13	14.45	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	13.89	14.20	14.15	14.80
		1	160	14.44	14.11	14.26	14.80
		81	40	14.09	14.35	13.93	14.80
		162	0	14.14	14.35	14.18	14.80
	DFT-s-OFDM QPSK	1	1	13.99	14.00	14.19	14.80
		1	160	14.48	13.88	14.09	14.80
		81	40	14.33	14.20	14.16	14.80
		162	0	14.27	14.15	14.31	14.80
	DFT-s-OFDM 16QAM	1	1	13.93	14.24	13.88	14.80
	DFT-s-OFDM 64QAM	1	1	13.98	14.25	13.93	14.80
	DFT-s-OFDM 256QAM	1	1	13.78	13.97	14.29	14.80
	CP-OFDM QPSK	1	1	13.98	14.11	14.39	14.80
	CP-OFDM 16QAM	1	1	14.13	14.15	14.05	14.80

	CP-OFDM 64QAM	1	1	14.44	13.33	14.20	14.80
	CP-OFDM 256QAM	1	1	14.21	14.15	14.39	14.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				506202/2531.01	518598/2595.99	531000/2655	
70MHz	DFT-s-OFDM BPSK	1	1	13.77	14.16	14.03	14.80
		1	160	14.56	14.25	14.20	14.80
		81	40	14.13	14.45	14.03	14.80
		162	0	14.26	14.41	14.16	14.80
	DFT-s-OFDM QPSK	1	1	14.17	14.00	14.25	14.80
		1	160	14.60	13.78	14.21	14.80
		81	40	14.21	14.14	14.34	14.80
		162	0	14.39	14.05	14.29	14.80
	DFT-s-OFDM 16QAM	1	1	13.85	14.42	13.82	14.80
	DFT-s-OFDM 64QAM	1	1	14.14	14.35	14.05	14.80
	DFT-s-OFDM 256QAM	1	1	13.94	14.07	14.17	14.80
	CP-OFDM QPSK	1	1	14.04	14.17	14.45	14.80
	CP-OFDM 16QAM	1	1	14.31	14.23	14.03	14.80
	CP-OFDM 64QAM	1	1	14.48	13.25	14.26	14.80
	CP-OFDM 256QAM	1	1	14.29	14.25	14.27	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	14.07	14.12	14.37	14.80
		1	215	14.46	14.17	14.08	14.80
		108	54	14.17	14.19	14.27	14.80
		216	0	14.38	14.55	14.16	14.80
	DFT-s-OFDM QPSK	1	1	14.21	14.06	14.47	14.80
		1	215	14.44	14.10	14.05	14.80
		108	54	14.19	14.26	14.00	14.80
		216	0	14.13	14.21	14.39	14.80
	DFT-s-OFDM 16QAM	1	1	14.21	14.20	13.90	14.80
	DFT-s-OFDM 64QAM	1	1	14.00	14.59	14.29	14.80
	DFT-s-OFDM 256QAM	1	1	14.12	14.27	14.29	14.80
	CP-OFDM QPSK	1	1	14.18	14.43	14.39	14.80
	CP-OFDM 16QAM	1	1	14.13	14.15	14.03	14.80
	CP-OFDM 64QAM	1	1	14.44	13.49	14.40	14.80
	CP-OFDM 256QAM	1	1	14.17	14.01	14.19	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	14.13	14.40	14.49	14.80
		1	243	14.44	14.15	14.34	14.80
		120	60	14.19	14.37	14.17	14.80
		243	0	14.40	14.51	14.38	14.80
	DFT-s-OFDM QPSK	1	1	14.25	14.26	14.19	14.80
		1	243	14.48	14.00	14.17	14.80
		120	60	14.15	14.22	14.18	14.80
		243	0	14.33	14.39	14.29	14.80
	DFT-s-OFDM 16QAM	1	1	14.31	14.30	14.10	14.80
	DFT-s-OFDM 64QAM	1	1	14.12	14.35	14.27	14.80
	DFT-s-OFDM 256QAM	1	1	13.80	14.17	14.33	14.80
	CP-OFDM QPSK	1	1	14.04	14.31	14.35	14.80
	CP-OFDM 16QAM	1	1	14.15	14.45	13.87	14.80
	CP-OFDM 64QAM	1	1	14.32	13.47	14.36	14.80
	CP-OFDM 256QAM	1	1	14.19	14.05	14.25	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	14.05	14.26	14.33	14.80
		1	271	14.40	14.05	14.26	14.80
		135	67	14.27	14.29	14.07	14.80
		270	0	14.28	14.35	14.22	14.80
	DFT-s-OFDM QPSK	1	1	14.09	14.20	14.29	14.80
		1	271	14.44	14.06	14.19	14.80
		135	67	14.23	14.30	14.12	14.80
		270	0	14.25	14.33	14.25	14.80
	DFT-s-OFDM 16QAM	1	1	14.13	14.16	13.96	14.80
	DFT-s-OFDM 64QAM	1	1	13.96	14.37	14.11	14.80
	DFT-s-OFDM 256QAM	1	1	13.90	14.13	14.37	14.80
	CP-OFDM QPSK	1	1	14.06	14.27	14.33	14.80
	CP-OFDM 16QAM	1	1	14.07	14.29	13.97	14.80
	CP-OFDM 64QAM	1	1	14.36	13.45	14.36	14.80
	CP-OFDM 256QAM	1	1	14.31	14.09	14.35	14.80

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Receiver on--Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	16.82	16.72	17.06	17.50
		1	49	16.87	16.87	17.29	17.50
		25	12	17.14	17.26	16.92	17.50
		50	0	16.63	17.07	17.05	17.50
	DFT-s-OFDM QPSK	1	1	16.96	17.04	16.48	17.50
		1	49	16.76	17.14	17.18	17.50
		25	12	17.11	17.11	16.87	17.50
		50	0	16.65	17.33	16.61	17.50
	DFT-s-OFDM 16QAM	1	1	16.37	16.97	16.75	17.50
	DFT-s-OFDM 64QAM	1	1	16.71	16.95	16.77	17.50
	DFT-s-OFDM 256QAM	1	1	16.66	16.72	17.04	17.50
	CP-OFDM QPSK	1	1	16.57	16.95	16.73	17.50
	CP-OFDM 16QAM	1	1	16.74	16.66	16.52	17.50
	CP-OFDM 64QAM	1	1	17.04	17.02	17.04	17.50
CP-OFDM 256QAM	1	1	16.83	16.87	17.15	17.50	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	16.64	16.74	17.12	17.50
		1	49	16.85	17.01	17.15	17.50
		25	12	17.08	17.32	16.90	17.50
		50	0	16.79	16.99	17.23	17.50
	DFT-s-OFDM QPSK	1	1	17.08	17.12	16.80	17.50
		1	49	16.80	17.02	16.94	17.50
		25	12	16.97	17.31	17.07	17.50
		50	0	16.75	17.07	16.75	17.50
	DFT-s-OFDM 16QAM	1	1	16.37	16.99	16.93	17.50
	DFT-s-OFDM 64QAM	1	1	16.73	16.93	16.83	17.50
	DFT-s-OFDM 256QAM	1	1	16.50	16.98	17.12	17.50
	CP-OFDM QPSK	1	1	16.59	17.19	16.91	17.50
	CP-OFDM 16QAM	1	1	16.56	16.88	16.64	17.50
	CP-OFDM 64QAM	1	1	16.92	17.06	16.76	17.50
CP-OFDM 256QAM	1	1	17.03	16.99	17.15	17.50	
Bandwidth	Modulation		offset	Channel/Frequency(MHz)			Tune-up

		RB allocation		630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	16.74	16.56	17.18	17.50
		1	49	16.71	17.01	17.13	17.50
		25	12	17.12	17.16	16.76	17.50
		50	0	16.77	16.99	17.17	17.50
	DFT-s-OFDM QPSK	1	1	16.90	17.04	16.66	17.50
		1	49	16.80	17.10	16.98	17.50
		25	12	16.93	17.17	16.99	17.50
		50	0	16.79	17.15	16.75	17.50
	DFT-s-OFDM 16QAM	1	1	16.29	17.07	16.75	17.50
	DFT-s-OFDM 64QAM	1	1	16.81	17.05	16.91	17.50
	DFT-s-OFDM 256QAM	1	1	16.62	16.86	17.04	17.50
	CP-OFDM QPSK	1	1	16.59	17.07	16.89	17.50
	CP-OFDM 16QAM	1	1	16.58	16.80	16.62	17.50
	CP-OFDM 64QAM	1	1	16.90	17.14	16.88	17.50
	CP-OFDM 256QAM	1	1	16.87	17.01	17.01	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	16.64	16.74	17.28	17.50
		1	76	16.87	17.05	17.13	17.50
		36	18	17.40	17.38	17.00	17.50
		75	0	16.81	17.05	17.29	17.50
	DFT-s-OFDM QPSK	1	1	16.72	16.98	17.06	17.50
		1	76	16.84	17.00	16.76	17.50
		36	18	17.01	17.25	16.93	17.50
		75	0	16.91	17.19	16.89	17.50
	DFT-s-OFDM 16QAM	1	1	16.53	17.13	16.79	17.50
	DFT-s-OFDM 64QAM	1	1	16.93	17.07	16.83	17.50
	DFT-s-OFDM 256QAM	1	1	16.88	16.78	17.08	17.50
	CP-OFDM QPSK	1	1	16.71	16.99	16.99	17.50
	CP-OFDM 16QAM	1	1	16.66	16.90	16.70	17.50
	CP-OFDM 64QAM	1	1	16.66	16.88	17.08	17.50
	CP-OFDM 256QAM	1	1	17.19	17.17	16.99	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz		1	1	16.68	16.56	17.28	17.50

	DFT-s-OFDM BPSK	1	104	17.07	17.01	17.39	17.50
		50	25	17.12	17.36	16.90	17.50
		100	0	16.95	16.97	17.17	17.50
	DFT-s-OFDM QPSK	1	1	16.76	17.02	16.92	17.50
		1	104	16.84	16.90	17.08	17.50
		50	25	17.13	17.35	17.11	17.50
		100	0	17.09	16.97	16.91	17.50
	DFT-s-OFDM 16QAM	1	1	16.67	17.03	17.11	17.50
	DFT-s-OFDM 64QAM	1	1	17.01	17.01	16.95	17.50
	DFT-s-OFDM 256QAM	1	1	16.78	16.80	17.30	17.50
	CP-OFDM QPSK	1	1	16.67	17.15	17.15	17.50
	CP-OFDM 16QAM	1	1	16.78	16.96	16.80	17.50
	CP-OFDM 64QAM	1	1	16.88	17.02	17.06	17.50
	CP-OFDM 256QAM	1	1	17.19	17.09	16.95	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	16.76	16.64	17.10	17.50
		1	131	16.91	17.11	17.23	17.50
		64	32	17.24	17.30	16.82	17.50
		128	0	16.91	16.99	17.11	17.50
	DFT-s-OFDM QPSK	1	1	16.80	16.96	16.84	17.50
		1	131	16.74	17.02	16.94	17.50
		64	32	16.95	17.21	16.97	17.50
		128	0	16.95	17.09	16.85	17.50
	DFT-s-OFDM 16QAM	1	1	16.49	17.07	16.93	17.50
	DFT-s-OFDM 64QAM	1	1	16.87	16.97	16.83	17.50
	DFT-s-OFDM 256QAM	1	1	16.66	16.86	17.16	17.50
	CP-OFDM QPSK	1	1	16.73	17.05	17.07	17.50
	CP-OFDM 16QAM	1	1	16.70	16.86	16.74	17.50
	CP-OFDM 64QAM	1	1	16.84	17.06	16.92	17.50
	CP-OFDM 256QAM	1	1	17.07	17.19	16.99	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	16.84	16.98	16.98	17.50
		1	160	16.97	16.97	17.11	17.50
		81	40	17.02	16.96	17.00	17.50

		162	0	16.91	17.07	16.97	17.50
	DFT-s-OFDM QPSK	1	1	16.94	16.84	16.80	17.50
		1	160	17.18	17.08	17.00	17.50
		81	40	17.03	17.11	17.15	17.50
		162	0	16.87	16.93	16.87	17.50
	DFT-s-OFDM 16QAM	1	1	16.75	16.89	16.75	17.50
	DFT-s-OFDM 64QAM	1	1	16.87	16.89	16.91	17.50
	DFT-s-OFDM 256QAM	1	1	17.10	17.02	16.92	17.50
	CP-OFDM QPSK	1	1	16.81	16.85	16.75	17.50
	CP-OFDM 16QAM	1	1	16.72	16.96	16.76	17.50
	CP-OFDM 64QAM	1	1	16.92	17.04	16.84	17.50
	CP-OFDM 256QAM	1	1	16.97	16.93	17.01	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	16.74	16.94	16.96	17.50
		1	187	16.91	16.93	16.85	17.50
		92	45	17.02	16.98	16.80	17.50
		180	0	17.11	17.07	16.91	17.50
	DFT-s-OFDM QPSK	1	1	16.68	16.84	16.92	17.50
		1	187	17.00	17.02	16.90	17.50
		92	45	17.11	17.09	16.95	17.50
		180	0	16.83	16.81	16.97	17.50
	DFT-s-OFDM 16QAM	1	1	16.77	16.71	16.73	17.50
	DFT-s-OFDM 64QAM	1	1	16.73	16.75	16.73	17.50
	DFT-s-OFDM 256QAM	1	1	16.90	16.88	16.84	17.50
	CP-OFDM QPSK	1	1	16.71	16.71	16.83	17.50
	CP-OFDM 16QAM	1	1	16.66	16.64	16.70	17.50
	CP-OFDM 64QAM	1	1	16.92	16.92	16.90	17.50
	CP-OFDM 256QAM	1	1	16.99	17.01	16.85	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	16.82	16.72	16.72	17.50
		1	215	17.27	16.91	16.89	17.50
		108	54	16.90	16.92	17.06	17.50
		216	0	16.91	17.07	16.97	17.50
		1	1	17.04	16.72	17.04	17.50

	DFT-s-OFDM QPSK	1	215	17.04	17.00	16.86	17.50
		108	54	17.25	17.15	16.99	17.50
		216	0	17.13	16.91	16.89	17.50
	DFT-s-OFDM 16QAM	1	1	16.75	16.93	16.89	17.50
	DFT-s-OFDM 64QAM	1	1	16.81	17.05	17.05	17.50
	DFT-s-OFDM 256QAM	1	1	17.16	17.08	16.88	17.50
	CP-OFDM QPSK	1	1	16.63	16.69	16.69	17.50
	CP-OFDM 16QAM	1	1	16.70	16.74	16.72	17.50
	CP-OFDM 64QAM	1	1	16.86	17.00	16.88	17.50
	CP-OFDM 256QAM	1	1	17.01	16.95	16.91	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	16.74	17.00	16.98	17.50
		1	243	17.13	17.11	17.01	17.50
		120	60	16.96	17.06	17.00	17.50
		243	0	16.89	16.95	17.01	17.50
	DFT-s-OFDM QPSK	1	1	16.70	16.96	16.84	17.50
		1	243	17.06	17.20	17.08	17.50
		120	60	16.91	16.99	17.09	17.50
		243	0	17.03	16.95	17.01	17.50
	DFT-s-OFDM 16QAM	1	1	16.77	16.69	16.77	17.50
	DFT-s-OFDM 64QAM	1	1	16.85	17.01	16.85	17.50
	DFT-s-OFDM 256QAM	1	1	17.12	16.82	16.92	17.50
	CP-OFDM QPSK	1	1	16.97	16.73	16.89	17.50
	CP-OFDM 16QAM	1	1	16.84	16.92	16.88	17.50
	CP-OFDM 64QAM	1	1	17.08	16.90	16.98	17.50
	CP-OFDM 256QAM	1	1	17.19	17.15	17.19	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	16.86	/	17.50
		1	271	/	17.05	/	17.50
		135	67	/	17.00	/	17.50
		270	0	/	17.01	/	17.50
	DFT-s-OFDM QPSK	1	1	/	16.82	/	17.50
		1	271	/	17.04	/	17.50
		135	67	/	17.03	/	17.50

		270	0	/	16.97	/	17.50
	DFT-s-OFDM 16QAM	1	1	/	16.81	/	17.50
	DFT-s-OFDM 64QAM	1	1	/	16.83	/	17.50
	DFT-s-OFDM 256QAM	1	1	/	16.94	/	17.50
	CP-OFDM QPSK	1	1	/	16.79	/	17.50
	CP-OFDM 16QAM	1	1	/	16.82	/	17.50
	CP-OFDM 64QAM	1	1	/	16.92	/	17.50
	CP-OFDM 256QAM	1	1	/	17.01	/	17.50
n78							
Receiver off--Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	18.31	18.25	18.19	19.20
		1	49	18.53	18.11	18.79	19.20
		25	12	18.21	18.49	18.73	19.20
		50	0	18.68	18.42	18.66	19.20
	DFT-s-OFDM QPSK	1	1	18.29	18.01	17.91	19.20
		1	49	18.66	18.40	18.36	19.20
		25	12	18.29	18.21	18.73	19.20
		50	0	18.32	18.42	18.62	19.20
	DFT-s-OFDM 16QAM	1	1	18.59	18.45	18.13	19.20
	DFT-s-OFDM 64QAM	1	1	18.35	17.73	17.81	19.20
	DFT-s-OFDM 256QAM	1	1	18.54	18.74	18.22	19.20
	CP-OFDM QPSK	1	1	18.03	18.13	18.29	19.20
	CP-OFDM 16QAM	1	1	18.41	17.91	17.97	19.20
	CP-OFDM 64QAM	1	1	18.21	18.71	18.17	19.20
CP-OFDM 256QAM	1	1	18.85	18.51	18.15	19.20	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	18.51	18.47	18.07	19.20
		1	49	18.51	18.03	18.49	19.20
		25	12	18.67	18.57	18.75	19.20
		50	0	18.62	18.50	18.50	19.20
	DFT-s-OFDM QPSK	1	1	18.33	18.09	18.29	19.20
		1	49	18.50	18.58	18.10	19.20
		25	12	18.35	18.23	18.49	19.20

		50	0	18.06	18.54	18.42	19.20
	DFT-s-OFDM 16QAM	1	1	18.31	18.51	18.43	19.20
	DFT-s-OFDM 64QAM	1	1	18.37	17.93	17.91	19.20
	DFT-s-OFDM 256QAM	1	1	18.46	18.74	18.36	19.20
	CP-OFDM QPSK	1	1	17.99	18.11	18.15	19.20
	CP-OFDM 16QAM	1	1	18.33	18.23	18.03	19.20
	CP-OFDM 64QAM	1	1	18.25	18.47	18.31	19.20
	CP-OFDM 256QAM	1	1	18.93	18.53	18.03	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	18.29	18.41	18.25	19.20
		1	49	18.45	18.21	18.55	19.20
		25	12	18.47	18.39	18.79	19.20
		50	0	18.42	18.44	18.42	19.20
	DFT-s-OFDM QPSK	1	1	18.49	18.23	18.07	19.20
		1	49	18.52	18.36	18.10	19.20
		25	12	18.33	18.29	18.45	19.20
		50	0	18.22	18.52	18.44	19.20
	DFT-s-OFDM 16QAM	1	1	18.33	18.43	18.23	19.20
	DFT-s-OFDM 64QAM	1	1	18.39	17.93	17.79	19.20
	DFT-s-OFDM 256QAM	1	1	18.58	18.54	18.34	19.20
	CP-OFDM QPSK	1	1	18.13	18.19	18.25	19.20
	CP-OFDM 16QAM	1	1	18.37	18.11	17.91	19.20
	CP-OFDM 64QAM	1	1	18.29	18.55	18.23	19.20
	CP-OFDM 256QAM	1	1	18.81	18.47	18.17	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	18.29	18.27	18.29	19.20
		1	76	18.61	18.25	18.83	19.20
		36	18	18.69	18.41	18.83	19.20
		75	0	18.70	18.36	18.48	19.20
	DFT-s-OFDM QPSK	1	1	18.47	18.57	18.27	19.20
		1	76	18.78	18.16	18.36	19.20
		36	18	18.35	18.41	18.53	19.20
		75	0	18.22	18.62	18.52	19.20
	DFT-s-OFDM 16QAM	1	1	18.49	18.33	18.25	19.20

	DFT-s-OFDM 64QAM	1	1	18.47	18.27	17.89	19.20
	DFT-s-OFDM 256QAM	1	1	18.56	18.54	18.36	19.20
	CP-OFDM QPSK	1	1	18.35	18.07	18.37	19.20
	CP-OFDM 16QAM	1	1	18.29	17.97	17.95	19.20
	CP-OFDM 64QAM	1	1	18.31	18.61	18.11	19.20
	CP-OFDM 256QAM	1	1	18.71	18.53	18.31	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	18.31	18.35	18.15	19.20
		1	104	18.37	18.43	18.77	19.20
		50	25	18.51	18.77	18.85	19.20
		100	0	18.38	18.62	18.34	19.20
	DFT-s-OFDM QPSK	1	1	18.57	18.37	18.27	19.20
		1	104	18.44	18.24	18.34	19.20
		50	25	18.61	18.19	18.31	19.20
		100	0	18.46	18.50	18.70	19.20
	DFT-s-OFDM 16QAM	1	1	18.37	18.45	18.25	19.20
	DFT-s-OFDM 64QAM	1	1	18.43	18.05	18.05	19.20
	DFT-s-OFDM 256QAM	1	1	18.62	18.50	18.52	19.20
	CP-OFDM QPSK	1	1	18.15	18.05	18.39	19.20
	CP-OFDM 16QAM	1	1	18.47	18.09	17.99	19.20
	CP-OFDM 64QAM	1	1	18.59	18.57	18.19	19.20
	CP-OFDM 256QAM	1	1	18.67	18.65	18.33	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	18.41	18.31	18.21	19.20
		1	131	18.45	18.37	18.65	19.20
		64	32	18.55	18.59	18.69	19.20
		128	0	18.50	18.52	18.36	19.20
	DFT-s-OFDM QPSK	1	1	18.61	18.37	18.15	19.20
		1	131	18.56	18.34	18.28	19.20
		64	32	18.43	18.29	18.37	19.20
		128	0	18.30	18.52	18.58	19.20
	DFT-s-OFDM 16QAM	1	1	18.33	18.37	18.35	19.20
	DFT-s-OFDM 64QAM	1	1	18.47	18.13	17.99	19.20

	DFT-s-OFDM 256QAM	1	1	18.70	18.56	18.50	19.20
	CP-OFDM QPSK	1	1	18.15	18.13	18.23	19.20
	CP-OFDM 16QAM	1	1	18.35	18.07	18.07	19.20
	CP-OFDM 64QAM	1	1	18.41	18.51	18.17	19.20
	CP-OFDM 256QAM	1	1	18.71	18.55	18.33	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	18.33	18.55	18.49	19.20
		1	160	18.67	18.49	18.69	19.20
		81	40	18.57	18.41	18.61	19.20
		162	0	18.50	18.46	18.56	19.20
	DFT-s-OFDM QPSK	1	1	18.33	18.31	18.27	19.20
		1	160	18.62	18.46	18.54	19.20
		81	40	18.51	18.67	18.53	19.20
		162	0	18.46	18.44	18.64	19.20
	DFT-s-OFDM 16QAM	1	1	18.25	18.35	18.31	19.20
	DFT-s-OFDM 64QAM	1	1	18.27	18.27	18.47	19.20
	DFT-s-OFDM 256QAM	1	1	18.64	18.52	18.40	19.20
	CP-OFDM QPSK	1	1	18.29	18.35	18.51	19.20
	CP-OFDM 16QAM	1	1	18.43	18.45	18.27	19.20
	CP-OFDM 64QAM	1	1	18.47	18.51	18.25	19.20
	CP-OFDM 256QAM	1	1	18.59	18.65	18.51	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	18.45	18.33	18.49	19.20
		1	187	18.61	18.63	18.63	19.20
		92	45	18.49	18.41	18.45	19.20
		180	0	18.50	18.60	18.36	19.20
	DFT-s-OFDM QPSK	1	1	18.13	18.27	18.21	19.20
		1	187	18.44	18.62	18.40	19.20
		92	45	18.59	18.47	18.43	19.20
		180	0	18.50	18.48	18.48	19.20
	DFT-s-OFDM 16QAM	1	1	18.17	18.31	18.03	19.20
	DFT-s-OFDM 64QAM	1	1	18.33	18.37	18.41	19.20
	DFT-s-OFDM 256QAM	1	1	18.46	18.38	18.28	19.20
	CP-OFDM QPSK	1	1	18.15	18.35	18.45	19.20

	CP-OFDM 16QAM	1	1	18.15	18.19	18.25	19.20
	CP-OFDM 64QAM	1	1	18.33	18.17	18.33	19.20
	CP-OFDM 256QAM	1	1	18.65	18.49	18.37	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	18.51	18.21	18.35	19.20
		1	215	18.65	18.77	18.71	19.20
		108	54	18.55	18.63	18.53	19.20
		216	0	18.44	18.40	18.74	19.20
	DFT-s-OFDM QPSK	1	1	18.49	18.27	18.15	19.20
		1	215	18.62	18.38	18.60	19.20
		108	54	18.37	18.55	18.35	19.20
		216	0	18.62	18.54	18.34	19.20
	DFT-s-OFDM 16QAM	1	1	18.43	18.21	18.37	19.20
	DFT-s-OFDM 64QAM	1	1	18.41	18.17	18.31	19.20
	DFT-s-OFDM 256QAM	1	1	18.34	18.54	18.52	19.20
	CP-OFDM QPSK	1	1	18.23	18.31	18.27	19.20
	CP-OFDM 16QAM	1	1	18.31	18.19	18.51	19.20
	CP-OFDM 64QAM	1	1	18.19	18.49	18.37	19.20
	CP-OFDM 256QAM	1	1	18.41	18.43	18.47	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	18.49	18.39	18.53	19.20
		1	243	18.69	18.57	18.49	19.20
		120	60	18.59	18.59	18.69	19.20
		243	0	18.62	18.42	18.40	19.20
	DFT-s-OFDM QPSK	1	1	18.49	18.21	18.21	19.20
		1	243	18.72	18.72	18.50	19.20
		120	60	18.65	18.49	18.43	19.20
		243	0	18.38	18.46	18.60	19.20
	DFT-s-OFDM 16QAM	1	1	18.41	18.21	18.41	19.20
	DFT-s-OFDM 64QAM	1	1	18.35	18.37	18.35	19.20
	DFT-s-OFDM 256QAM	1	1	18.50	18.66	18.56	19.20
	CP-OFDM QPSK	1	1	18.27	18.23	18.35	19.20
	CP-OFDM 16QAM	1	1	18.33	18.43	18.21	19.20
	CP-OFDM 64QAM	1	1	18.51	18.45	18.49	19.20

	CP-OFDM 256QAM	1	1	18.69	18.75	18.59	19.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	18.39	/	19.20
		1	271	/	18.55	/	19.20
		135	67	/	18.51	/	19.20
		270	0	/	18.52	/	19.20
	DFT-s-OFDM QPSK	1	1	/	18.31	/	19.20
		1	271	/	18.54	/	19.20
		135	67	/	18.51	/	19.20
		270	0	/	18.50	/	19.20
	DFT-s-OFDM 16QAM	1	1	/	18.23	/	19.20
	DFT-s-OFDM 64QAM	1	1	/	18.35	/	19.20
	DFT-s-OFDM 256QAM	1	1	/	18.48	/	19.20
	CP-OFDM QPSK	1	1	/	18.35	/	19.20
	CP-OFDM 16QAM	1	1	/	18.33	/	19.20
	CP-OFDM 64QAM	1	1	/	18.35	/	19.20
CP-OFDM 256QAM	1	1	/	18.57	/	19.20	
n78							
Hotspot on--Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
20MHz	DFT-s-OFDM BPSK	1	1	14.33	13.79	14.13	14.70
		1	49	14.50	14.28	13.96	14.70
		25	12	14.34	13.96	14.28	14.70
		50	0	13.73	13.93	13.91	14.70
	DFT-s-OFDM QPSK	1	1	13.63	14.03	14.33	14.70
		1	49	14.19	14.41	14.35	14.70
		25	12	14.16	14.26	13.64	14.70
		50	0	14.44	14.00	13.82	14.70
	DFT-s-OFDM 16QAM	1	1	13.85	14.09	13.83	14.70
	DFT-s-OFDM 64QAM	1	1	13.56	14.36	13.52	14.70
	DFT-s-OFDM 256QAM	1	1	14.00	14.40	13.72	14.70
	CP-OFDM QPSK	1	1	13.98	13.64	13.64	14.70
	CP-OFDM 16QAM	1	1	14.13	13.71	13.97	14.70
	CP-OFDM 64QAM	1	1	14.19	13.95	14.19	14.70

	CP-OFDM 256QAM	1	1	13.86	13.70	13.80	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
20MHz	DFT-s-OFDM BPSK	1	1	14.25	13.91	14.27	14.70
		1	49	14.38	14.36	14.06	14.70
		25	12	14.44	14.22	14.36	14.70
		50	0	13.85	14.03	13.91	14.70
	DFT-s-OFDM QPSK	1	1	13.57	14.07	14.27	14.70
		1	49	14.15	14.49	14.33	14.70
		25	12	14.24	14.38	13.72	14.70
		50	0	14.14	13.98	13.92	14.70
	DFT-s-OFDM 16QAM	1	1	13.77	14.19	13.85	14.70
	DFT-s-OFDM 64QAM	1	1	13.62	14.06	13.70	14.70
	DFT-s-OFDM 256QAM	1	1	14.24	14.50	14.06	14.70
	CP-OFDM QPSK	1	1	13.86	13.40	13.98	14.70
	CP-OFDM 16QAM	1	1	14.13	13.51	13.91	14.70
	CP-OFDM 64QAM	1	1	14.31	14.05	14.21	14.70
	CP-OFDM 256QAM	1	1	13.82	13.56	13.86	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	14.21	13.83	14.15	14.70
		1	49	14.30	14.28	14.12	14.70
		25	12	14.42	14.04	14.34	14.70
		50	0	13.83	14.05	13.95	14.70
	DFT-s-OFDM QPSK	1	1	13.43	14.01	14.17	14.70
		1	49	14.15	14.33	14.21	14.70
		25	12	14.08	14.24	13.78	14.70
		50	0	14.24	13.92	13.98	14.70
	DFT-s-OFDM 16QAM	1	1	13.73	14.07	13.71	14.70
	DFT-s-OFDM 64QAM	1	1	13.72	14.16	13.60	14.70
	DFT-s-OFDM 256QAM	1	1	14.08	14.46	13.90	14.70
	CP-OFDM QPSK	1	1	13.76	13.46	13.80	14.70
	CP-OFDM 16QAM	1	1	14.17	13.55	13.75	14.70
	CP-OFDM 64QAM	1	1	14.25	14.09	14.09	14.70
	CP-OFDM 256QAM	1	1	13.92	13.64	13.80	14.70
Bandwidth	Modulation		offset	Channel/Frequency(MHz)			Tune-up

		RB allocation		631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	14.03	13.85	14.01	14.70
		1	76	14.28	14.18	14.14	14.70
		36	18	14.32	14.14	14.16	14.70
		75	0	13.95	14.09	14.01	14.70
	DFT-s-OFDM QPSK	1	1	13.45	13.97	13.99	14.70
		1	76	14.13	14.39	14.15	14.70
		36	18	13.92	14.30	13.86	14.70
		75	0	14.18	13.84	13.96	14.70
	DFT-s-OFDM 16QAM	1	1	13.67	13.99	13.75	14.70
	DFT-s-OFDM 64QAM	1	1	13.64	14.06	13.62	14.70
	DFT-s-OFDM 256QAM	1	1	13.96	14.28	14.00	14.70
	CP-OFDM QPSK	1	1	13.72	13.40	13.74	14.70
	CP-OFDM 16QAM	1	1	14.01	13.67	13.75	14.70
	CP-OFDM 64QAM	1	1	14.13	13.97	14.05	14.70
	CP-OFDM 256QAM	1	1	13.80	13.68	13.86	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	13.91	13.71	13.91	14.70
		1	104	14.18	14.12	14.14	14.70
		50	25	14.34	14.12	14.10	14.70
		100	0	13.89	14.07	13.95	14.70
	DFT-s-OFDM QPSK	1	1	13.67	13.91	13.93	14.70
		1	104	13.97	14.07	14.01	14.70
		50	25	14.06	14.22	14.18	14.70
		100	0	14.12	13.98	14.08	14.70
	DFT-s-OFDM 16QAM	1	1	13.75	13.89	13.65	14.70
	DFT-s-OFDM 64QAM	1	1	13.76	14.10	13.82	14.70
	DFT-s-OFDM 256QAM	1	1	13.94	14.30	14.16	14.70
	CP-OFDM QPSK	1	1	13.68	13.52	13.78	14.70
	CP-OFDM 16QAM	1	1	13.89	13.71	13.65	14.70
	CP-OFDM 64QAM	1	1	14.23	13.97	14.11	14.70
	CP-OFDM 256QAM	1	1	13.82	13.70	14.16	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz		1	1	13.97	13.71	13.87	14.70

	DFT-s-OFDM BPSK	1	131	13.98	14.08	14.16	14.70
		64	32	14.28	14.08	14.16	14.70
		128	0	13.73	13.95	13.69	14.70
	DFT-s-OFDM QPSK	1	1	13.67	13.89	13.81	14.70
		1	131	14.09	14.01	13.77	14.70
		64	32	13.94	14.08	13.92	14.70
		128	0	13.98	13.92	14.00	14.70
	DFT-s-OFDM 16QAM	1	1	13.57	13.85	13.39	14.70
	DFT-s-OFDM 64QAM	1	1	13.50	13.84	13.56	14.70
	DFT-s-OFDM 256QAM	1	1	13.82	14.20	14.20	14.70
	CP-OFDM QPSK	1	1	13.74	13.58	13.88	14.70
	CP-OFDM 16QAM	1	1	13.79	13.73	13.75	14.70
	CP-OFDM 64QAM	1	1	14.21	14.07	13.85	14.70
	CP-OFDM 256QAM	1	1	13.94	13.60	14.06	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	13.79	13.81	13.93	14.70
		1	160	13.90	14.20	14.04	14.70
		81	40	14.30	14.24	14.02	14.70
		162	0	14.01	14.05	13.73	14.70
	DFT-s-OFDM QPSK	1	1	13.67	13.85	13.73	14.70
		1	160	13.87	14.23	14.05	14.70
		81	40	13.82	14.06	14.24	14.70
		162	0	14.30	14.10	14.26	14.70
	DFT-s-OFDM 16QAM	1	1	13.49	13.83	13.67	14.70
	DFT-s-OFDM 64QAM	1	1	13.76	14.08	13.80	14.70
	DFT-s-OFDM 256QAM	1	1	13.98	14.12	14.06	14.70
	CP-OFDM QPSK	1	1	13.66	13.70	13.74	14.70
	CP-OFDM 16QAM	1	1	13.93	13.79	13.63	14.70
	CP-OFDM 64QAM	1	1	14.15	14.01	14.03	14.70
	CP-OFDM 256QAM	1	1	14.00	13.64	13.94	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	13.95	13.91	13.91	14.70
		1	187	14.12	14.14	14.18	14.70
		92	45	14.12	14.30	14.30	14.70

		180	0	14.03	14.05	13.91	14.70
	DFT-s-OFDM QPSK	1	1	13.93	13.87	13.79	14.70
		1	187	14.21	14.29	13.91	14.70
		92	45	14.12	14.06	14.16	14.70
		180	0	14.04	13.94	14.26	14.70
	DFT-s-OFDM 16QAM	1	1	13.65	14.07	13.75	14.70
	DFT-s-OFDM 64QAM	1	1	13.82	13.90	13.76	14.70
	DFT-s-OFDM 256QAM	1	1	14.14	14.24	14.22	14.70
	CP-OFDM QPSK	1	1	13.84	13.54	13.92	14.70
	CP-OFDM 16QAM	1	1	13.77	13.83	13.67	14.70
	CP-OFDM 64QAM	1	1	14.07	14.07	14.21	14.70
	CP-OFDM 256QAM	1	1	14.02	13.90	14.08	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	13.97	13.81	13.87	14.70
		1	215	14.08	14.12	14.18	14.70
		108	54	14.18	14.18	14.18	14.70
		216	0	13.85	13.91	13.89	14.70
	DFT-s-OFDM QPSK	1	1	13.75	13.99	13.81	14.70
		1	215	14.05	14.15	13.95	14.70
		108	54	13.94	14.08	14.04	14.70
		216	0	14.10	13.98	14.12	14.70
	DFT-s-OFDM 16QAM	1	1	13.59	13.95	13.59	14.70
	DFT-s-OFDM 64QAM	1	1	13.70	14.02	13.66	14.70
	DFT-s-OFDM 256QAM	1	1	13.98	14.14	14.12	14.70
	CP-OFDM QPSK	1	1	13.66	13.62	13.82	14.70
	CP-OFDM 16QAM	1	1	13.85	13.77	13.75	14.70
	CP-OFDM 64QAM	1	1	14.11	14.03	14.03	14.70
	CP-OFDM 256QAM	1	1	13.84	13.80	14.04	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	14.01	13.91	14.01	14.70
		1	243	13.98	13.94	13.90	14.70
		120	60	13.96	13.90	13.96	14.70
		243	0	13.97	13.95	13.91	14.70
		1	1	13.91	13.79	13.73	14.70

	DFT-s-OFDM QPSK	1	243	14.01	14.23	14.05	14.70
		120	60	14.18	14.18	14.14	14.70
		243	0	13.94	13.92	14.12	14.70
	DFT-s-OFDM 16QAM	1	1	13.81	13.93	13.75	14.70
	DFT-s-OFDM 64QAM	1	1	13.92	13.72	13.82	14.70
	DFT-s-OFDM 256QAM	1	1	14.00	13.92	13.94	14.70
	CP-OFDM QPSK	1	1	13.76	13.72	13.96	14.70
	CP-OFDM 16QAM	1	1	13.87	14.03	13.83	14.70
	CP-OFDM 64QAM	1	1	13.83	13.85	13.95	14.70
	CP-OFDM 256QAM	1	1	13.94	14.10	13.84	14.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	13.87	/	14.70
		1	271	/	14.02	/	14.70
		135	67	/	14.00	/	14.70
		270	0	/	13.99	/	14.70
	DFT-s-OFDM QPSK	1	1	/	13.81	/	14.70
		1	271	/	14.05	/	14.70
		135	67	/	14.02	/	14.70
		270	0	/	13.96	/	14.70
	DFT-s-OFDM 16QAM	1	1	/	13.75	/	14.70
	DFT-s-OFDM 64QAM	1	1	/	13.80	/	14.70
	DFT-s-OFDM 256QAM	1	1	/	13.92	/	14.70
	CP-OFDM QPSK	1	1	/	13.80	/	14.70
	CP-OFDM 16QAM	1	1	/	13.87	/	14.70
	CP-OFDM 64QAM	1	1	/	13.91	/	14.70
	CP-OFDM 256QAM	1	1	/	13.96	/	14.70
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Receiver on--Ant6				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	17.01	17.21	16.75	18.00
		1	49	17.22	17.38	16.90	18.00
		25	12	17.00	16.90	17.14	18.00
		50	0	17.23	17.07	17.21	18.00
		1	1	16.86	17.00	16.96	18.00

	DFT-s-OFDM QPSK	1	49	17.04	17.12	17.26	18.00
		25	12	17.18	16.80	16.52	18.00
		50	0	17.11	17.17	17.03	18.00
	DFT-s-OFDM 16QAM	1	1	17.35	17.51	17.37	18.00
	DFT-s-OFDM 64QAM	1	1	17.06	17.36	16.98	18.00
	DFT-s-OFDM 256QAM	1	1	16.98	16.92	17.18	18.00
	CP-OFDM QPSK	1	1	17.25	17.11	17.51	18.00
	CP-OFDM 16QAM	1	1	17.09	17.45	17.19	18.00
	CP-OFDM 64QAM	1	1	16.71	16.73	17.09	18.00
	CP-OFDM 256QAM	1	1	17.31	17.43	17.63	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	17.25	16.85	16.95	18.00
		1	49	17.38	16.96	17.12	18.00
		25	12	17.40	16.86	16.96	18.00
		50	0	17.41	16.83	17.41	18.00
	DFT-s-OFDM QPSK	1	1	16.66	17.34	17.04	18.00
		1	49	17.12	16.88	17.34	18.00
		25	12	17.40	16.96	16.96	18.00
		50	0	16.97	17.27	16.81	18.00
	DFT-s-OFDM 16QAM	1	1	17.55	17.27	17.51	18.00
	DFT-s-OFDM 64QAM	1	1	16.72	17.22	16.64	18.00
	DFT-s-OFDM 256QAM	1	1	17.14	17.04	17.22	18.00
	CP-OFDM QPSK	1	1	17.05	16.83	17.45	18.00
	CP-OFDM 16QAM	1	1	17.03	17.53	17.19	18.00
	CP-OFDM 64QAM	1	1	16.85	16.71	17.23	18.00
	CP-OFDM 256QAM	1	1	17.45	17.47	17.39	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	17.15	16.95	16.95	18.00
		1	49	17.20	17.04	17.02	18.00
		25	12	17.22	16.80	17.06	18.00
		50	0	17.23	16.95	17.31	18.00
	DFT-s-OFDM QPSK	1	1	16.74	17.32	16.96	18.00
		1	49	17.16	16.96	17.16	18.00
		25	12	17.32	17.06	16.82	18.00

		50	0	16.85	17.17	16.83	18.00
	DFT-s-OFDM 16QAM	1	1	17.37	17.33	17.35	18.00
	DFT-s-OFDM 64QAM	1	1	16.78	17.18	16.66	18.00
	DFT-s-OFDM 256QAM	1	1	17.18	17.04	17.04	18.00
	CP-OFDM QPSK	1	1	17.07	16.89	17.49	18.00
	CP-OFDM 16QAM	1	1	17.07	17.47	17.23	18.00
	CP-OFDM 64QAM	1	1	16.95	16.77	17.25	18.00
	CP-OFDM 256QAM	1	1	17.33	17.47	17.41	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	17.45	17.05	17.19	18.00
		1	76	17.38	17.06	16.80	18.00
		36	18	17.26	17.10	17.12	18.00
		75	0	17.37	17.07	17.27	18.00
	DFT-s-OFDM QPSK	1	1	17.16	17.24	16.82	18.00
		1	76	17.40	17.04	17.12	18.00
		36	18	17.28	16.96	16.94	18.00
		75	0	17.27	17.47	16.87	18.00
	DFT-s-OFDM 16QAM	1	1	17.57	17.53	17.43	18.00
	DFT-s-OFDM 64QAM	1	1	17.14	17.16	16.60	18.00
	DFT-s-OFDM 256QAM	1	1	17.20	17.28	16.94	18.00
	CP-OFDM QPSK	1	1	16.87	17.25	17.49	18.00
	CP-OFDM 16QAM	1	1	17.25	17.69	17.55	18.00
	CP-OFDM 64QAM	1	1	16.81	16.91	17.11	18.00
	CP-OFDM 256QAM	1	1	17.39	17.57	17.67	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	17.29	16.93	17.03	18.00
		1	104	17.30	17.18	16.92	18.00
		50	25	17.06	16.94	16.92	18.00
		100	0	17.29	16.99	17.29	18.00
	DFT-s-OFDM QPSK	1	1	16.88	17.32	17.12	18.00
		1	104	17.36	17.24	17.14	18.00
		50	25	17.22	17.04	16.96	18.00
		100	0	17.17	17.25	16.87	18.00
	DFT-s-OFDM 16QAM	1	1	17.25	17.45	17.57	18.00

	DFT-s-OFDM 64QAM	1	1	16.94	17.22	16.58	18.00
	DFT-s-OFDM 256QAM	1	1	17.40	17.20	17.14	18.00
	CP-OFDM QPSK	1	1	16.93	16.99	17.39	18.00
	CP-OFDM 16QAM	1	1	17.29	17.41	17.27	18.00
	CP-OFDM 64QAM	1	1	16.75	16.89	17.17	18.00
	CP-OFDM 256QAM	1	1	17.49	17.51	17.69	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	17.23	16.91	17.11	18.00
		1	131	17.26	17.08	16.94	18.00
		64	32	17.18	16.90	17.04	18.00
		128	0	17.35	16.87	17.25	18.00
	DFT-s-OFDM QPSK	1	1	16.94	17.24	16.98	18.00
		1	131	17.20	17.14	17.06	18.00
		64	32	17.28	17.10	16.98	18.00
		128	0	17.05	17.29	16.99	18.00
	DFT-s-OFDM 16QAM	1	1	17.37	17.41	17.39	18.00
	DFT-s-OFDM 64QAM	1	1	16.96	17.08	16.68	18.00
	DFT-s-OFDM 256QAM	1	1	17.24	17.12	17.08	18.00
	CP-OFDM QPSK	1	1	17.05	17.03	17.41	18.00
	CP-OFDM 16QAM	1	1	17.25	17.49	17.35	18.00
	CP-OFDM 64QAM	1	1	16.85	16.79	17.19	18.00
	CP-OFDM 256QAM	1	1	17.45	17.39	17.51	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	17.09	17.21	17.07	18.00
		1	160	17.02	16.92	17.12	18.00
		81	40	17.26	17.06	17.26	18.00
		162	0	17.17	17.25	17.21	18.00
	DFT-s-OFDM QPSK	1	1	17.14	17.22	17.24	18.00
		1	160	17.20	17.26	17.28	18.00
		81	40	17.12	17.18	17.24	18.00
		162	0	17.01	17.19	17.17	18.00
	DFT-s-OFDM 16QAM	1	1	17.35	17.45	17.43	18.00
	DFT-s-OFDM 64QAM	1	1	17.12	16.88	16.86	18.00

	DFT-s-OFDM 256QAM	1	1	17.14	17.14	17.02	18.00
	CP-OFDM QPSK	1	1	17.21	17.07	17.17	18.00
	CP-OFDM 16QAM	1	1	17.29	17.47	17.27	18.00
	CP-OFDM 64QAM	1	1	16.99	16.91	17.05	18.00
	CP-OFDM 256QAM	1	1	17.33	17.51	17.27	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	17.03	17.13	17.05	18.00
		1	187	16.92	17.12	16.82	18.00
		92	45	17.18	17.10	17.02	18.00
		180	0	17.13	17.13	17.21	18.00
	DFT-s-OFDM QPSK	1	1	17.24	17.14	17.08	18.00
		1	187	17.20	17.16	17.16	18.00
		92	45	17.04	17.06	17.04	18.00
		180	0	17.15	16.97	17.15	18.00
	DFT-s-OFDM 16QAM	1	1	17.33	17.47	17.25	18.00
	DFT-s-OFDM 64QAM	1	1	16.76	17.00	16.86	18.00
	DFT-s-OFDM 256QAM	1	1	16.96	17.18	17.18	18.00
	CP-OFDM QPSK	1	1	17.05	17.15	17.15	18.00
	CP-OFDM 16QAM	1	1	17.17	17.11	17.37	18.00
	CP-OFDM 64QAM	1	1	16.95	16.85	16.81	18.00
	CP-OFDM 256QAM	1	1	17.39	17.31	17.39	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	16.97	17.13	17.05	18.00
		1	215	17.00	16.88	17.24	18.00
		108	54	17.10	16.96	16.94	18.00
		216	0	17.13	17.13	17.09	18.00
	DFT-s-OFDM QPSK	1	1	17.08	17.10	17.18	18.00
		1	215	17.10	17.26	17.06	18.00
		108	54	17.20	17.22	17.04	18.00
		216	0	17.11	17.09	16.99	18.00
	DFT-s-OFDM 16QAM	1	1	17.55	17.21	17.51	18.00
	DFT-s-OFDM 64QAM	1	1	16.82	16.82	17.08	18.00
	DFT-s-OFDM 256QAM	1	1	17.04	16.98	17.06	18.00
	CP-OFDM QPSK	1	1	17.27	16.97	17.23	18.00

	CP-OFDM 16QAM	1	1	17.35	17.17	17.17	18.00
	CP-OFDM 64QAM	1	1	17.03	17.05	16.97	18.00
	CP-OFDM 256QAM	1	1	17.49	17.21	17.31	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	17.03	17.23	17.09	18.00
		1	243	16.96	17.20	17.10	18.00
		120	60	16.98	16.98	17.26	18.00
		243	0	17.29	17.23	17.27	18.00
	DFT-s-OFDM QPSK	1	1	17.26	17.32	17.10	18.00
		1	243	17.20	17.24	17.18	18.00
		120	60	17.12	17.22	17.12	18.00
		243	0	17.09	17.19	17.15	18.00
	DFT-s-OFDM 16QAM	1	1	17.41	17.43	17.55	18.00
	DFT-s-OFDM 64QAM	1	1	17.06	17.00	17.10	18.00
	DFT-s-OFDM 256QAM	1	1	17.02	17.22	17.08	18.00
	CP-OFDM QPSK	1	1	17.07	17.11	17.15	18.00
	CP-OFDM 16QAM	1	1	17.29	17.33	17.39	18.00
	CP-OFDM 64QAM	1	1	16.95	16.87	16.91	18.00
	CP-OFDM 256QAM	1	1	17.31	17.45	17.27	18.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	17.05	/	18.00
		1	271	/	17.02	/	18.00
		135	67	/	17.10	/	18.00
		270	0	/	17.11	/	18.00
	DFT-s-OFDM QPSK	1	1	/	17.20	/	18.00
		1	271	/	17.12	/	18.00
		135	67	/	17.08	/	18.00
		270	0	/	17.09	/	18.00
	DFT-s-OFDM 16QAM	1	1	/	17.37	/	18.00
	DFT-s-OFDM 64QAM	1	1	/	16.96	/	18.00
	DFT-s-OFDM 256QAM	1	1	/	17.08	/	18.00
	CP-OFDM QPSK	1	1	/	17.11	/	18.00
	CP-OFDM 16QAM	1	1	/	17.31	/	18.00
	CP-OFDM 64QAM	1	1	/	16.95	/	18.00

	CP-OFDM 256QAM	1	1	/	17.37	/	18.00
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Receiver off--Ant6				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	20.15	20.57	20.29	21.30
		1	49	20.54	20.58	20.64	21.30
		25	12	20.74	20.22	20.38	21.30
		50	0	20.76	20.56	21.10	21.30
	DFT-s-OFDM QPSK	1	1	20.56	20.68	20.60	21.30
		1	49	20.83	20.59	20.95	21.30
		25	12	20.97	20.67	20.89	21.30
		50	0	20.86	20.68	20.76	21.30
	DFT-s-OFDM 16QAM	1	1	20.66	21.16	20.72	21.30
	DFT-s-OFDM 64QAM	1	1	21.02	20.44	20.16	21.30
	DFT-s-OFDM 256QAM	1	1	20.82	20.70	20.84	21.30
	CP-OFDM QPSK	1	1	20.31	20.53	20.91	21.30
	CP-OFDM 16QAM	1	1	20.40	20.98	21.14	21.30
	CP-OFDM 64QAM	1	1	20.33	19.95	20.17	21.30
	CP-OFDM 256QAM	1	1	20.75	20.85	20.95	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	20.21	20.73	20.41	21.30
		1	49	20.42	20.58	20.60	21.30
		25	12	20.76	20.42	20.46	21.30
		50	0	20.64	20.48	20.96	21.30
	DFT-s-OFDM QPSK	1	1	20.40	20.72	20.74	21.30
		1	49	20.87	20.71	20.73	21.30
		25	12	20.81	20.83	20.75	21.30
		50	0	20.86	20.68	20.68	21.30
	DFT-s-OFDM 16QAM	1	1	20.62	21.10	20.58	21.30
	DFT-s-OFDM 64QAM	1	1	20.82	20.48	20.16	21.30
	DFT-s-OFDM 256QAM	1	1	20.82	20.78	21.04	21.30
	CP-OFDM QPSK	1	1	20.49	20.47	20.67	21.30
	CP-OFDM 16QAM	1	1	20.46	20.98	21.08	21.30
	CP-OFDM 64QAM	1	1	20.43	20.27	20.33	21.30

	CP-OFDM 256QAM	1	1	20.81	21.13	21.11	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	20.29	20.71	20.33	21.30
		1	49	20.44	20.68	20.42	21.30
		25	12	20.80	20.34	20.32	21.30
		50	0	20.58	20.52	21.06	21.30
	DFT-s-OFDM QPSK	1	1	20.38	20.62	20.74	21.30
		1	49	20.75	20.67	20.79	21.30
		25	12	20.77	20.65	20.67	21.30
		50	0	20.72	20.54	20.78	21.30
	DFT-s-OFDM 16QAM	1	1	20.58	21.20	20.58	21.30
	DFT-s-OFDM 64QAM	1	1	20.86	20.60	20.12	21.30
	DFT-s-OFDM 256QAM	1	1	20.64	20.60	20.92	21.30
	CP-OFDM QPSK	1	1	20.35	20.53	20.73	21.30
	CP-OFDM 16QAM	1	1	20.58	21.00	20.96	21.30
	CP-OFDM 64QAM	1	1	20.35	20.09	20.35	21.30
	CP-OFDM 256QAM	1	1	20.71	20.97	21.03	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	20.43	20.61	20.43	21.30
		1	76	20.24	20.80	20.46	21.30
		36	18	20.90	20.42	20.36	21.30
		75	0	20.54	20.74	20.98	21.30
	DFT-s-OFDM QPSK	1	1	20.74	20.62	20.96	21.30
		1	76	20.81	20.63	20.81	21.30
		36	18	20.65	20.75	20.79	21.30
		75	0	20.80	20.58	20.82	21.30
	DFT-s-OFDM 16QAM	1	1	20.86	21.18	20.76	21.30
	DFT-s-OFDM 64QAM	1	1	21.06	20.60	20.36	21.30
	DFT-s-OFDM 256QAM	1	1	20.82	20.64	21.04	21.30
	CP-OFDM QPSK	1	1	20.45	20.85	20.91	21.30
	CP-OFDM 16QAM	1	1	20.72	21.22	21.10	21.30
	CP-OFDM 64QAM	1	1	20.51	20.27	20.43	21.30
	CP-OFDM 256QAM	1	1	20.69	20.75	20.99	21.30
Bandwidth	Modulation		offset	Channel/Frequency(MHz)			Tune-up

		RB allocation		631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	20.31	20.79	20.31	21.30
		1	104	20.44	20.68	20.52	21.30
		50	25	20.84	20.52	20.56	21.30
		100	0	20.58	20.74	21.08	21.30
	DFT-s-OFDM QPSK	1	1	20.48	20.66	20.90	21.30
		1	104	20.83	20.61	20.83	21.30
		50	25	20.89	20.55	20.71	21.30
		100	0	20.68	20.62	20.78	21.30
	DFT-s-OFDM 16QAM	1	1	20.70	21.22	20.66	21.30
	DFT-s-OFDM 64QAM	1	1	20.78	20.46	20.18	21.30
	DFT-s-OFDM 256QAM	1	1	20.66	20.64	21.00	21.30
	CP-OFDM QPSK	1	1	20.69	20.89	20.91	21.30
	CP-OFDM 16QAM	1	1	20.80	21.08	20.96	21.30
	CP-OFDM 64QAM	1	1	20.39	20.27	20.49	21.30
	CP-OFDM 256QAM	1	1	20.49	20.93	20.95	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	20.37	20.79	20.41	21.30
		1	131	20.38	20.72	20.60	21.30
		64	32	20.76	20.50	20.40	21.30
		128	0	20.64	20.56	20.96	21.30
	DFT-s-OFDM QPSK	1	1	20.56	20.66	20.76	21.30
		1	131	20.85	20.59	20.83	21.30
		64	32	20.73	20.67	20.79	21.30
		128	0	20.68	20.44	20.84	21.30
	DFT-s-OFDM 16QAM	1	1	20.68	21.18	20.78	21.30
	DFT-s-OFDM 64QAM	1	1	20.84	20.54	20.30	21.30
	DFT-s-OFDM 256QAM	1	1	20.68	20.52	20.86	21.30
	CP-OFDM QPSK	1	1	20.51	20.73	20.77	21.30
	CP-OFDM 16QAM	1	1	20.68	21.08	21.08	21.30
	CP-OFDM 64QAM	1	1	20.51	20.23	20.45	21.30
	CP-OFDM 256QAM	1	1	20.61	20.93	21.03	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz		1	1	20.75	20.81	20.65	21.30

	DFT-s-OFDM BPSK	1	160	20.52	20.58	20.60	21.30
		81	40	20.72	20.58	20.80	21.30
		162	0	20.76	20.70	20.78	21.30
	DFT-s-OFDM QPSK	1	1	20.62	20.88	20.88	21.30
		1	160	20.85	20.69	20.81	21.30
		81	40	20.65	20.81	20.85	21.30
		162	0	20.72	20.82	20.68	21.30
	DFT-s-OFDM 16QAM	1	1	20.94	21.06	21.10	21.30
	DFT-s-OFDM 64QAM	1	1	20.48	20.46	20.52	21.30
	DFT-s-OFDM 256QAM	1	1	20.64	20.64	20.70	21.30
	CP-OFDM QPSK	1	1	20.81	20.73	20.75	21.30
	CP-OFDM 16QAM	1	1	21.00	20.80	20.82	21.30
	CP-OFDM 64QAM	1	1	20.67	20.41	20.43	21.30
	CP-OFDM 256QAM	1	1	20.95	20.85	20.97	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	20.45	20.45	20.67	21.30
		1	187	20.62	20.70	20.50	21.30
		92	45	20.76	20.72	20.66	21.30
		180	0	20.54	20.50	20.60	21.30
	DFT-s-OFDM QPSK	1	1	20.80	20.66	20.56	21.30
		1	187	20.53	20.49	20.49	21.30
		92	45	20.65	20.69	20.57	21.30
		180	0	20.66	20.58	20.74	21.30
	DFT-s-OFDM 16QAM	1	1	20.82	20.90	21.02	21.30
	DFT-s-OFDM 64QAM	1	1	20.48	20.34	20.50	21.30
	DFT-s-OFDM 256QAM	1	1	20.52	20.70	20.48	21.30
	CP-OFDM QPSK	1	1	20.75	20.49	20.63	21.30
	CP-OFDM 16QAM	1	1	20.68	20.70	20.80	21.30
	CP-OFDM 64QAM	1	1	20.53	20.61	20.35	21.30
	CP-OFDM 256QAM	1	1	20.81	20.85	20.97	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	20.57	20.57	20.87	21.30
		1	215	20.54	20.58	20.68	21.30
		108	54	20.86	20.70	20.82	21.30

		216	0	20.80	20.90	20.84	21.30
	DFT-s-OFDM QPSK	1	1	20.72	20.54	20.60	21.30
		1	215	20.55	20.57	20.87	21.30
		108	54	20.73	20.89	20.77	21.30
		216	0	20.66	20.52	20.78	21.30
	DFT-s-OFDM 16QAM	1	1	20.80	21.18	21.14	21.30
	DFT-s-OFDM 64QAM	1	1	20.68	20.72	20.52	21.30
	DFT-s-OFDM 256QAM	1	1	20.64	20.80	20.88	21.30
	CP-OFDM QPSK	1	1	20.61	20.87	20.63	21.30
	CP-OFDM 16QAM	1	1	21.02	21.06	20.82	21.30
	CP-OFDM 64QAM	1	1	20.67	20.49	20.49	21.30
	CP-OFDM 256QAM	1	1	20.79	20.71	20.79	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	20.61	20.67	20.81	21.30
		1	243	20.78	20.60	20.76	21.30
		120	60	20.70	20.62	20.82	21.30
		243	0	20.84	20.66	20.72	21.30
	DFT-s-OFDM QPSK	1	1	20.68	20.86	20.86	21.30
		1	243	20.59	20.61	20.79	21.30
		120	60	20.65	20.81	20.69	21.30
		243	0	20.58	20.74	20.60	21.30
	DFT-s-OFDM 16QAM	1	1	21.14	20.98	21.12	21.30
	DFT-s-OFDM 64QAM	1	1	20.46	20.66	20.40	21.30
	DFT-s-OFDM 256QAM	1	1	20.68	20.82	20.80	21.30
	CP-OFDM QPSK	1	1	20.77	20.69	20.71	21.30
	CP-OFDM 16QAM	1	1	21.02	21.02	20.78	21.30
	CP-OFDM 64QAM	1	1	20.69	20.51	20.41	21.30
	CP-OFDM 256QAM	1	1	20.97	20.77	20.85	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	20.65	/	21.30
		1	271	/	20.62	/	21.30
		135	67	/	20.66	/	21.30
		270	0	/	20.70	/	21.30
		1	1	/	20.72	/	21.30

	DFT-s-OFDM QPSK	1	271	/	20.69	/	21.30
		135	67	/	20.69	/	21.30
		270	0	/	20.66	/	21.30
	DFT-s-OFDM 16QAM	1	1	/	20.96	/	21.30
	DFT-s-OFDM 64QAM	1	1	/	20.52	/	21.30
	DFT-s-OFDM 256QAM	1	1	/	20.68	/	21.30
	CP-OFDM QPSK	1	1	/	20.69	/	21.30
	CP-OFDM 16QAM	1	1	/	20.88	/	21.30
	CP-OFDM 64QAM	1	1	/	20.51	/	21.30
	CP-OFDM 256QAM	1	1	/	20.87	/	21.30
n78							
Hotspot on--Ant6				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	14.93	15.11	15.11	16.00
		1	49	15.16	15.04	15.08	16.00
		25	12	14.82	14.96	15.02	16.00
		50	0	14.94	14.90	15.20	16.00
	DFT-s-OFDM QPSK	1	1	15.46	14.98	15.12	16.00
		1	49	15.32	15.14	15.04	16.00
		25	12	14.81	14.89	14.71	16.00
		50	0	14.79	15.23	14.85	16.00
	DFT-s-OFDM 16QAM	1	1	15.53	15.41	14.97	16.00
	DFT-s-OFDM 64QAM	1	1	14.86	14.66	14.86	16.00
	DFT-s-OFDM 256QAM	1	1	14.97	15.29	15.59	16.00
	CP-OFDM QPSK	1	1	14.96	14.82	14.96	16.00
	CP-OFDM 16QAM	1	1	15.09	15.21	15.21	16.00
	CP-OFDM 64QAM	1	1	14.91	14.69	14.99	16.00
CP-OFDM 256QAM	1	1	15.44	15.80	15.10	16.00	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	14.83	15.15	14.81	16.00
		1	49	15.02	15.14	15.28	16.00
		25	12	14.88	14.96	15.40	16.00
		50	0	14.86	15.16	15.18	16.00
		1	1	15.26	15.16	15.24	16.00

	DFT-s-OFDM QPSK	1	49	15.44	14.86	15.28	16.00
		25	12	14.75	14.81	15.05	16.00
		50	0	14.91	15.11	14.77	16.00
	DFT-s-OFDM 16QAM	1	1	15.51	15.49	15.39	16.00
	DFT-s-OFDM 64QAM	1	1	14.92	15.04	14.70	16.00
	DFT-s-OFDM 256QAM	1	1	15.03	15.37	15.37	16.00
	CP-OFDM QPSK	1	1	15.26	14.86	15.22	16.00
	CP-OFDM 16QAM	1	1	15.13	15.37	15.25	16.00
	CP-OFDM 64QAM	1	1	14.99	15.01	14.99	16.00
	CP-OFDM 256QAM	1	1	15.36	15.62	15.08	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	14.95	15.11	14.89	16.00
		1	49	15.00	15.00	15.14	16.00
		25	12	14.92	14.88	15.28	16.00
		50	0	14.96	15.04	15.26	16.00
	DFT-s-OFDM QPSK	1	1	15.24	15.10	15.12	16.00
		1	49	15.32	14.98	15.10	16.00
		25	12	14.83	14.93	14.93	16.00
		50	0	14.89	14.97	14.87	16.00
	DFT-s-OFDM 16QAM	1	1	15.61	15.59	15.23	16.00
	DFT-s-OFDM 64QAM	1	1	14.90	14.86	14.76	16.00
	DFT-s-OFDM 256QAM	1	1	14.93	15.19	15.25	16.00
	CP-OFDM QPSK	1	1	15.10	14.92	15.04	16.00
	CP-OFDM 16QAM	1	1	15.21	15.23	15.19	16.00
	CP-OFDM 64QAM	1	1	14.91	14.83	14.85	16.00
	CP-OFDM 256QAM	1	1	15.24	15.58	15.14	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	15.11	15.49	14.77	16.00
		1	76	14.88	15.00	15.34	16.00
		36	18	14.90	15.12	15.30	16.00
		75	0	14.88	15.28	15.44	16.00
	DFT-s-OFDM QPSK	1	1	15.10	15.06	15.50	16.00
		1	76	15.26	14.92	14.96	16.00
		36	18	15.05	15.11	15.19	16.00

		75	0	15.17	15.23	14.99	16.00
	DFT-s-OFDM 16QAM	1	1	15.69	15.69	15.31	16.00
	DFT-s-OFDM 64QAM	1	1	14.92	15.08	14.66	16.00
	DFT-s-OFDM 256QAM	1	1	14.81	15.25	15.43	16.00
	CP-OFDM QPSK	1	1	15.00	15.08	15.16	16.00
	CP-OFDM 16QAM	1	1	15.15	15.19	15.47	16.00
	CP-OFDM 64QAM	1	1	14.79	14.95	14.65	16.00
	CP-OFDM 256QAM	1	1	15.32	15.58	15.48	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	14.89	15.29	14.99	16.00
		1	104	15.18	14.90	15.12	16.00
		50	25	14.88	15.10	15.38	16.00
		100	0	14.92	15.38	15.32	16.00
	DFT-s-OFDM QPSK	1	1	15.22	15.12	15.28	16.00
		1	104	15.50	14.82	15.18	16.00
		50	25	15.05	14.99	14.95	16.00
		100	0	15.13	15.01	15.05	16.00
	DFT-s-OFDM 16QAM	1	1	15.43	15.41	15.35	16.00
	DFT-s-OFDM 64QAM	1	1	14.90	14.84	14.62	16.00
	DFT-s-OFDM 256QAM	1	1	15.03	15.07	15.11	16.00
	CP-OFDM QPSK	1	1	15.14	14.92	15.02	16.00
	CP-OFDM 16QAM	1	1	15.13	15.41	15.47	16.00
	CP-OFDM 64QAM	1	1	15.01	15.05	14.87	16.00
	CP-OFDM 256QAM	1	1	15.58	15.48	15.36	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	14.97	15.27	14.89	16.00
		1	131	15.00	14.90	15.16	16.00
		64	32	14.94	15.06	15.34	16.00
		128	0	14.88	15.22	15.42	16.00
	DFT-s-OFDM QPSK	1	1	15.14	15.24	15.28	16.00
		1	131	15.40	14.92	15.10	16.00
		64	32	15.03	15.05	14.97	16.00
		128	0	15.05	15.09	15.05	16.00
	DFT-s-OFDM 16QAM	1	1	15.51	15.49	15.37	16.00

	DFT-s-OFDM 64QAM	1	1	15.02	14.96	14.66	16.00
	DFT-s-OFDM 256QAM	1	1	14.93	15.11	15.21	16.00
	CP-OFDM QPSK	1	1	15.06	14.88	15.14	16.00
	CP-OFDM 16QAM	1	1	15.13	15.29	15.37	16.00
	CP-OFDM 64QAM	1	1	14.87	14.99	14.79	16.00
	CP-OFDM 256QAM	1	1	15.44	15.52	15.34	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	15.19	15.05	15.01	16.00
		1	160	14.98	15.00	15.24	16.00
		81	40	15.12	15.12	15.26	16.00
		162	0	15.06	15.20	15.18	16.00
	DFT-s-OFDM QPSK	1	1	15.16	15.34	15.28	16.00
		1	160	15.22	15.28	15.28	16.00
		81	40	15.01	15.01	15.01	16.00
		162	0	15.25	15.27	15.05	16.00
	DFT-s-OFDM 16QAM	1	1	15.55	15.49	15.41	16.00
	DFT-s-OFDM 64QAM	1	1	14.92	15.14	15.02	16.00
	DFT-s-OFDM 256QAM	1	1	15.11	15.25	15.19	16.00
	CP-OFDM QPSK	1	1	15.12	15.08	15.04	16.00
	CP-OFDM 16QAM	1	1	15.23	15.39	15.41	16.00
	CP-OFDM 64QAM	1	1	14.97	14.93	15.09	16.00
	CP-OFDM 256QAM	1	1	15.44	15.42	15.52	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	15.19	14.93	14.93	16.00
		1	187	15.02	14.96	15.00	16.00
		92	45	14.92	15.10	15.20	16.00
		180	0	14.92	14.96	15.14	16.00
	DFT-s-OFDM QPSK	1	1	15.24	15.30	15.24	16.00
		1	187	15.20	15.12	14.94	16.00
		92	45	14.91	15.19	15.17	16.00
		180	0	15.11	15.17	15.23	16.00
	DFT-s-OFDM 16QAM	1	1	15.37	15.41	15.37	16.00
	DFT-s-OFDM 64QAM	1	1	14.98	14.78	14.98	16.00

	DFT-s-OFDM 256QAM	1	1	15.01	15.01	15.03	16.00
	CP-OFDM QPSK	1	1	15.18	15.16	15.00	16.00
	CP-OFDM 16QAM	1	1	15.15	15.11	15.11	16.00
	CP-OFDM 64QAM	1	1	15.05	14.75	15.05	16.00
	CP-OFDM 256QAM	1	1	15.24	15.34	15.44	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	15.27	15.21	14.99	16.00
		1	215	15.30	15.04	14.94	16.00
		108	54	14.92	15.26	14.94	16.00
		216	0	15.12	15.06	14.96	16.00
	DFT-s-OFDM QPSK	1	1	15.20	15.42	15.44	16.00
		1	215	15.08	15.00	14.98	16.00
		108	54	15.31	15.33	15.15	16.00
		216	0	15.01	15.31	15.33	16.00
	DFT-s-OFDM 16QAM	1	1	15.51	15.43	15.55	16.00
	DFT-s-OFDM 64QAM	1	1	14.82	14.86	15.08	16.00
	DFT-s-OFDM 256QAM	1	1	15.19	14.97	14.99	16.00
	CP-OFDM QPSK	1	1	15.22	15.34	15.08	16.00
	CP-OFDM 16QAM	1	1	15.35	15.27	15.49	16.00
	CP-OFDM 64QAM	1	1	14.79	14.97	14.79	16.00
	CP-OFDM 256QAM	1	1	15.60	15.26	15.36	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	15.11	15.07	15.07	16.00
		1	243	15.02	15.22	15.08	16.00
		120	60	15.02	15.18	15.22	16.00
		243	0	15.14	15.18	15.28	16.00
	DFT-s-OFDM QPSK	1	1	15.14	15.20	15.22	16.00
		1	243	15.20	15.08	15.02	16.00
		120	60	15.29	14.99	15.03	16.00
		243	0	15.07	15.05	15.23	16.00
	DFT-s-OFDM 16QAM	1	1	15.49	15.51	15.29	16.00
	DFT-s-OFDM 64QAM	1	1	15.06	14.96	14.90	16.00
	DFT-s-OFDM 256QAM	1	1	15.33	15.27	15.33	16.00
	CP-OFDM QPSK	1	1	15.04	15.32	15.18	16.00

	CP-OFDM 16QAM	1	1	15.39	15.23	15.27	16.00
	CP-OFDM 64QAM	1	1	14.99	15.11	14.95	16.00
	CP-OFDM 256QAM	1	1	15.40	15.54	15.32	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	15.11	/	16.00
		1	271	/	15.08	/	16.00
		135	67	/	15.10	/	16.00
		270	0	/	15.12	/	16.00
	DFT-s-OFDM QPSK	1	1	/	15.24	/	16.00
		1	271	/	15.14	/	16.00
		135	67	/	15.11	/	16.00
		270	0	/	15.15	/	16.00
	DFT-s-OFDM 16QAM	1	1	/	15.41	/	16.00
	DFT-s-OFDM 64QAM	1	1	/	14.98	/	16.00
	DFT-s-OFDM 256QAM	1	1	/	15.15	/	16.00
	CP-OFDM QPSK	1	1	/	15.14	/	16.00
	CP-OFDM 16QAM	1	1	/	15.31	/	16.00
	CP-OFDM 64QAM	1	1	/	14.95	/	16.00
	CP-OFDM 256QAM	1	1	/	15.42	/	16.00
n78							
Receiver on--Ant7				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	13.87	13.19	13.53	14.50
		1	49	14.02	13.64	13.80	14.50
		25	12	13.28	13.32	13.88	14.50
		50	0	13.52	13.92	13.80	14.50
	DFT-s-OFDM QPSK	1	1	14.01	13.41	13.39	14.50
		1	49	13.43	13.83	13.99	14.50
		25	12	13.95	13.83	13.25	14.50
		50	0	13.80	13.32	13.66	14.50
	DFT-s-OFDM 16QAM	1	1	13.49	13.19	13.97	14.50
	DFT-s-OFDM 64QAM	1	1	14.04	13.34	13.56	14.50
	DFT-s-OFDM 256QAM	1	1	13.28	13.10	13.44	14.50
	CP-OFDM QPSK	1	1	13.56	13.38	13.82	14.50

	CP-OFDM 16QAM	1	1	13.33	13.59	13.19	14.50
	CP-OFDM 64QAM	1	1	13.99	13.41	13.71	14.50
	CP-OFDM 256QAM	1	1	13.99	13.49	13.73	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	13.67	13.25	13.59	14.50
		1	49	14.04	13.82	13.86	14.50
		25	12	13.30	13.38	13.62	14.50
		50	0	13.68	13.90	13.64	14.50
	DFT-s-OFDM QPSK	1	1	13.75	13.49	13.61	14.50
		1	49	13.57	13.93	14.07	14.50
		25	12	13.81	13.87	13.39	14.50
		50	0	13.72	13.40	13.70	14.50
	DFT-s-OFDM 16QAM	1	1	13.55	13.13	13.85	14.50
	DFT-s-OFDM 64QAM	1	1	13.94	13.28	13.48	14.50
	DFT-s-OFDM 256QAM	1	1	13.42	13.10	13.30	14.50
	CP-OFDM QPSK	1	1	13.74	13.40	13.58	14.50
	CP-OFDM 16QAM	1	1	13.45	13.57	13.21	14.50
	CP-OFDM 64QAM	1	1	14.11	13.25	13.85	14.50
	CP-OFDM 256QAM	1	1	13.89	13.43	13.93	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	13.77	13.23	13.49	14.50
		1	49	13.86	13.82	13.90	14.50
		25	12	13.28	13.46	13.70	14.50
		50	0	13.64	13.86	13.60	14.50
	DFT-s-OFDM QPSK	1	1	13.85	13.55	13.51	14.50
		1	49	13.53	13.93	13.95	14.50
		25	12	13.85	13.87	13.37	14.50
		50	0	13.62	13.48	13.74	14.50
	DFT-s-OFDM 16QAM	1	1	13.41	13.17	13.75	14.50
	DFT-s-OFDM 64QAM	1	1	14.06	13.18	13.54	14.50
	DFT-s-OFDM 256QAM	1	1	13.30	13.10	13.24	14.50
	CP-OFDM QPSK	1	1	13.66	13.52	13.60	14.50
	CP-OFDM 16QAM	1	1	13.51	13.39	13.21	14.50
	CP-OFDM 64QAM	1	1	13.93	13.35	13.77	14.50

	CP-OFDM 256QAM	1	1	13.89	13.55	13.91	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	13.67	13.31	13.39	14.50
		1	76	13.76	13.82	13.96	14.50
		36	18	13.44	13.72	13.90	14.50
		75	0	13.68	13.80	13.84	14.50
	DFT-s-OFDM QPSK	1	1	13.77	13.63	13.81	14.50
		1	76	13.71	14.15	14.07	14.50
		36	18	13.87	13.89	13.43	14.50
		75	0	13.42	13.52	13.58	14.50
	DFT-s-OFDM 16QAM	1	1	13.63	13.51	13.63	14.50
	DFT-s-OFDM 64QAM	1	1	14.00	13.50	13.74	14.50
	DFT-s-OFDM 256QAM	1	1	13.28	13.04	13.16	14.50
	CP-OFDM QPSK	1	1	13.62	13.60	13.68	14.50
	CP-OFDM 16QAM	1	1	13.43	13.63	13.19	14.50
	CP-OFDM 64QAM	1	1	13.83	13.63	13.79	14.50
	CP-OFDM 256QAM	1	1	13.71	13.69	14.11	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	13.73	13.29	13.59	14.50
		1	104	13.76	13.92	14.06	14.50
		50	25	13.64	13.74	13.90	14.50
		100	0	13.66	13.88	13.66	14.50
	DFT-s-OFDM QPSK	1	1	13.91	13.67	13.53	14.50
		1	104	13.77	14.15	14.09	14.50
		50	25	13.71	14.05	13.59	14.50
		100	0	13.56	13.44	13.86	14.50
	DFT-s-OFDM 16QAM	1	1	13.69	13.33	13.81	14.50
	DFT-s-OFDM 64QAM	1	1	14.10	13.48	13.60	14.50
	DFT-s-OFDM 256QAM	1	1	13.48	13.24	13.38	14.50
	CP-OFDM QPSK	1	1	13.52	13.54	13.88	14.50
	CP-OFDM 16QAM	1	1	13.57	13.53	13.39	14.50
	CP-OFDM 64QAM	1	1	13.73	13.57	13.99	14.50
	CP-OFDM 256QAM	1	1	13.89	13.77	13.95	14.50
Bandwidth	Modulation		offset	Channel/Frequency(MHz)			Tune-up

		RB allocation		631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	13.85	13.37	13.45	14.50
		1	131	13.84	13.88	14.08	14.50
		64	32	13.46	13.60	13.76	14.50
		128	0	13.60	13.94	13.72	14.50
	DFT-s-OFDM QPSK	1	1	13.75	13.59	13.61	14.50
		1	131	13.61	13.99	13.95	14.50
		64	32	13.83	13.91	13.43	14.50
		128	0	13.60	13.52	13.74	14.50
	DFT-s-OFDM 16QAM	1	1	13.51	13.35	13.73	14.50
	DFT-s-OFDM 64QAM	1	1	13.96	13.30	13.64	14.50
	DFT-s-OFDM 256QAM	1	1	13.32	13.18	13.30	14.50
	CP-OFDM QPSK	1	1	13.64	13.46	13.70	14.50
	CP-OFDM 16QAM	1	1	13.55	13.43	13.35	14.50
	CP-OFDM 64QAM	1	1	13.83	13.49	13.91	14.50
	CP-OFDM 256QAM	1	1	13.81	13.73	13.95	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	13.45	13.41	13.61	14.50
		1	160	13.92	13.76	13.88	14.50
		81	40	13.70	13.82	13.70	14.50
		162	0	13.66	13.62	13.74	14.50
	DFT-s-OFDM QPSK	1	1	13.71	13.63	13.69	14.50
		1	160	14.01	13.85	13.87	14.50
		81	40	13.65	13.77	13.69	14.50
		162	0	13.82	13.84	13.60	14.50
	DFT-s-OFDM 16QAM	1	1	13.55	13.43	13.45	14.50
	DFT-s-OFDM 64QAM	1	1	13.60	13.78	13.60	14.50
	DFT-s-OFDM 256QAM	1	1	13.38	13.52	13.36	14.50
	CP-OFDM QPSK	1	1	13.68	13.54	13.54	14.50
	CP-OFDM 16QAM	1	1	13.55	13.53	13.59	14.50
	CP-OFDM 64QAM	1	1	13.59	13.63	13.85	14.50
	CP-OFDM 256QAM	1	1	13.91	13.97	13.85	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz		1	1	13.47	13.53	13.31	14.50

	DFT-s-OFDM BPSK	1	187	13.84	13.82	13.74	14.50
		92	45	13.60	13.48	13.48	14.50
		180	0	13.58	13.56	13.54	14.50
	DFT-s-OFDM QPSK	1	1	13.63	13.41	13.65	14.50
		1	187	13.81	13.89	13.95	14.50
		92	45	13.49	13.65	13.63	14.50
		180	0	13.66	13.66	13.48	14.50
	DFT-s-OFDM 16QAM	1	1	13.35	13.55	13.43	14.50
	DFT-s-OFDM 64QAM	1	1	13.52	13.70	13.56	14.50
	DFT-s-OFDM 256QAM	1	1	13.18	13.18	13.44	14.50
	CP-OFDM QPSK	1	1	13.44	13.58	13.58	14.50
	CP-OFDM 16QAM	1	1	13.47	13.55	13.51	14.50
	CP-OFDM 64QAM	1	1	13.77	13.65	13.77	14.50
	CP-OFDM 256QAM	1	1	13.71	13.71	13.87	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	13.51	13.45	13.69	14.50
		1	215	14.06	13.84	13.94	14.50
		108	54	13.48	13.48	13.80	14.50
		216	0	13.84	13.56	13.60	14.50
	DFT-s-OFDM QPSK	1	1	13.67	13.41	13.75	14.50
		1	215	13.93	13.75	13.77	14.50
		108	54	13.73	13.73	13.61	14.50
		216	0	13.66	13.74	13.68	14.50
	DFT-s-OFDM 16QAM	1	1	13.33	13.73	13.35	14.50
	DFT-s-OFDM 64QAM	1	1	13.68	13.58	13.66	14.50
	DFT-s-OFDM 256QAM	1	1	13.44	13.44	13.18	14.50
	CP-OFDM QPSK	1	1	13.52	13.52	13.68	14.50
	CP-OFDM 16QAM	1	1	13.71	13.41	13.35	14.50
	CP-OFDM 64QAM	1	1	13.85	13.91	13.57	14.50
	CP-OFDM 256QAM	1	1	13.71	13.85	14.01	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	13.69	13.51	13.69	14.50
		1	243	13.88	13.86	13.84	14.50
		120	60	13.58	13.80	13.84	14.50

		243	0	13.80	13.70	13.72	14.50
	DFT-s-OFDM QPSK	1	1	13.73	13.61	13.63	14.50
		1	243	13.95	13.99	13.89	14.50
		120	60	13.79	13.67	13.61	14.50
		243	0	13.80	13.58	13.74	14.50
	DFT-s-OFDM 16QAM	1	1	13.63	13.51	13.47	14.50
	DFT-s-OFDM 64QAM	1	1	13.62	13.62	13.82	14.50
	DFT-s-OFDM 256QAM	1	1	13.48	13.50	13.30	14.50
	CP-OFDM QPSK	1	1	13.64	13.42	13.70	14.50
	CP-OFDM 16QAM	1	1	13.61	13.53	13.65	14.50
	CP-OFDM 64QAM	1	1	13.57	13.71	13.57	14.50
	CP-OFDM 256QAM	1	1	13.93	13.89	13.83	14.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	13.51	/	14.50
		1	271	/	13.84	/	14.50
		135	67	/	13.66	/	14.50
		270	0	/	13.68	/	14.50
	DFT-s-OFDM QPSK	1	1	/	13.59	/	14.50
		1	271	/	13.85	/	14.50
		135	67	/	13.65	/	14.50
		270	0	/	13.68	/	14.50
	DFT-s-OFDM 16QAM	1	1	/	13.51	/	14.50
	DFT-s-OFDM 64QAM	1	1	/	13.66	/	14.50
	DFT-s-OFDM 256QAM	1	1	/	13.36	/	14.50
	CP-OFDM QPSK	1	1	/	13.52	/	14.50
	CP-OFDM 16QAM	1	1	/	13.53	/	14.50
	CP-OFDM 64QAM	1	1	/	13.69	/	14.50
	CP-OFDM 256QAM	1	1	/	13.85	/	14.50
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Receiver off--Ant7				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	17.93	17.81	18.53	19.00
		1	49	18.55	18.03	18.31	19.00
		25	12	17.81	18.03	18.31	19.00

		50	0	17.75	18.55	17.85	19.00
	DFT-s-OFDM QPSK	1	1	18.26	18.12	17.88	19.00
		1	49	18.12	18.62	18.20	19.00
		25	12	18.32	18.48	18.10	19.00
		50	0	18.55	18.49	17.87	19.00
	DFT-s-OFDM 16QAM	1	1	18.59	18.39	17.95	19.00
	DFT-s-OFDM 64QAM	1	1	18.04	17.60	17.82	19.00
	DFT-s-OFDM 256QAM	1	1	17.83	17.57	17.75	19.00
	CP-OFDM QPSK	1	1	18.18	18.30	18.64	19.00
	CP-OFDM 16QAM	1	1	18.21	18.03	17.89	19.00
	CP-OFDM 64QAM	1	1	17.84	18.12	18.24	19.00
	CP-OFDM 256QAM	1	1	18.56	18.32	18.08	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	18.05	17.95	18.27	19.00
		1	49	18.81	18.09	18.57	19.00
		25	12	18.17	18.19	18.41	19.00
		50	0	17.93	18.39	17.99	19.00
	DFT-s-OFDM QPSK	1	1	18.32	18.22	18.32	19.00
		1	49	18.02	18.48	18.40	19.00
		25	12	18.06	18.16	17.76	19.00
		50	0	18.27	18.51	17.91	19.00
	DFT-s-OFDM 16QAM	1	1	18.59	18.43	17.77	19.00
	DFT-s-OFDM 64QAM	1	1	18.06	17.66	17.76	19.00
	DFT-s-OFDM 256QAM	1	1	17.77	17.77	17.91	19.00
	CP-OFDM QPSK	1	1	18.44	18.06	18.28	19.00
	CP-OFDM 16QAM	1	1	18.03	17.91	17.87	19.00
	CP-OFDM 64QAM	1	1	17.82	18.28	18.08	19.00
	CP-OFDM 256QAM	1	1	18.42	18.42	18.20	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	17.89	18.03	18.19	19.00
		1	49	18.69	18.03	18.39	19.00
		25	12	18.13	18.31	18.25	19.00
		50	0	17.89	18.45	17.95	19.00
		1	1	18.40	18.12	18.16	19.00

	DFT-s-OFDM QPSK	1	49	18.12	18.48	18.26	19.00
		25	12	18.16	18.28	17.82	19.00
		50	0	18.35	18.37	17.89	19.00
	DFT-s-OFDM 16QAM	1	1	18.49	18.35	17.85	19.00
	DFT-s-OFDM 64QAM	1	1	18.06	17.76	17.60	19.00
	DFT-s-OFDM 256QAM	1	1	17.83	17.79	17.99	19.00
	CP-OFDM QPSK	1	1	18.30	18.06	18.30	19.00
	CP-OFDM 16QAM	1	1	17.99	17.95	17.85	19.00
	CP-OFDM 64QAM	1	1	17.88	18.10	18.18	19.00
	CP-OFDM 256QAM	1	1	18.40	18.32	18.02	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	18.07	18.03	18.01	19.00
		1	76	18.67	18.45	18.47	19.00
		36	18	18.37	18.37	18.25	19.00
		75	0	18.05	18.63	18.03	19.00
	DFT-s-OFDM QPSK	1	1	18.26	18.24	18.38	19.00
		1	76	18.52	18.60	18.18	19.00
		36	18	18.06	18.44	18.10	19.00
		75	0	18.33	18.45	17.81	19.00
	DFT-s-OFDM 16QAM	1	1	18.39	18.63	18.13	19.00
	DFT-s-OFDM 64QAM	1	1	18.02	17.88	17.80	19.00
	DFT-s-OFDM 256QAM	1	1	17.83	18.07	18.29	19.00
	CP-OFDM QPSK	1	1	18.46	18.12	18.20	19.00
	CP-OFDM 16QAM	1	1	18.23	17.81	17.69	19.00
	CP-OFDM 64QAM	1	1	17.92	18.12	18.26	19.00
	CP-OFDM 256QAM	1	1	18.64	18.40	18.22	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	18.01	18.09	18.29	19.00
		1	104	18.77	18.31	18.31	19.00
		50	25	18.25	18.37	18.31	19.00
		100	0	18.13	18.53	18.25	19.00
	DFT-s-OFDM QPSK	1	1	18.24	18.34	18.28	19.00
		1	104	18.28	18.62	18.42	19.00
		50	25	18.24	18.20	18.14	19.00

		100	0	18.23	18.41	18.07	19.00
	DFT-s-OFDM 16QAM	1	1	18.55	18.63	17.87	19.00
	DFT-s-OFDM 64QAM	1	1	18.14	17.64	17.84	19.00
	DFT-s-OFDM 256QAM	1	1	17.95	17.97	18.13	19.00
	CP-OFDM QPSK	1	1	18.40	17.98	18.18	19.00
	CP-OFDM 16QAM	1	1	18.35	17.83	17.79	19.00
	CP-OFDM 64QAM	1	1	18.12	18.40	18.10	19.00
	CP-OFDM 256QAM	1	1	18.54	18.44	18.40	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	17.99	18.15	18.17	19.00
		1	131	18.59	18.23	18.41	19.00
		64	32	18.23	18.25	18.15	19.00
		128	0	17.95	18.41	18.09	19.00
	DFT-s-OFDM QPSK	1	1	18.30	18.16	18.20	19.00
		1	131	18.32	18.52	18.34	19.00
		64	32	18.12	18.24	18.00	19.00
		128	0	18.33	18.35	17.99	19.00
	DFT-s-OFDM 16QAM	1	1	18.41	18.45	17.99	19.00
	DFT-s-OFDM 64QAM	1	1	17.96	17.76	17.76	19.00
	DFT-s-OFDM 256QAM	1	1	17.95	17.93	18.13	19.00
	CP-OFDM QPSK	1	1	18.24	18.02	18.22	19.00
	CP-OFDM 16QAM	1	1	18.19	17.87	17.83	19.00
	CP-OFDM 64QAM	1	1	18.08	18.22	18.18	19.00
	CP-OFDM 256QAM	1	1	18.58	18.48	18.22	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	18.05	18.09	17.99	19.00
		1	160	18.51	18.47	18.35	19.00
		81	40	18.23	18.23	18.25	19.00
		162	0	18.43	18.37	18.21	19.00
	DFT-s-OFDM QPSK	1	1	18.08	18.22	18.22	19.00
		1	160	18.34	18.24	18.40	19.00
		81	40	18.18	18.34	18.20	19.00
		162	0	18.33	18.17	18.19	19.00
	DFT-s-OFDM 16QAM	1	1	18.27	18.21	18.17	19.00

	DFT-s-OFDM 64QAM	1	1	17.80	17.98	17.90	19.00
	DFT-s-OFDM 256QAM	1	1	17.93	18.09	17.91	19.00
	CP-OFDM QPSK	1	1	18.12	18.16	18.22	19.00
	CP-OFDM 16QAM	1	1	18.01	18.09	18.13	19.00
	CP-OFDM 64QAM	1	1	18.34	18.30	18.24	19.00
	CP-OFDM 256QAM	1	1	18.44	18.62	18.50	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	18.01	17.89	18.07	19.00
		1	187	18.15	18.35	18.39	19.00
		92	45	18.35	18.17	18.13	19.00
		180	0	18.37	18.25	18.27	19.00
	DFT-s-OFDM QPSK	1	1	18.22	18.08	18.06	19.00
		1	187	18.36	18.10	18.38	19.00
		92	45	18.30	18.08	18.28	19.00
		180	0	18.31	18.25	18.17	19.00
	DFT-s-OFDM 16QAM	1	1	18.27	18.07	18.25	19.00
	DFT-s-OFDM 64QAM	1	1	17.84	17.76	17.88	19.00
	DFT-s-OFDM 256QAM	1	1	17.95	18.03	17.81	19.00
	CP-OFDM QPSK	1	1	17.94	17.88	18.08	19.00
	CP-OFDM 16QAM	1	1	17.93	18.03	18.15	19.00
	CP-OFDM 64QAM	1	1	18.10	18.18	18.16	19.00
	CP-OFDM 256QAM	1	1	18.40	18.32	18.36	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	18.19	18.27	18.05	19.00
		1	215	18.51	18.57	18.17	19.00
		108	54	18.21	18.13	18.47	19.00
		216	0	18.45	18.27	18.35	19.00
	DFT-s-OFDM QPSK	1	1	18.28	18.02	18.06	19.00
		1	215	18.44	18.14	18.10	19.00
		108	54	18.18	18.28	18.16	19.00
		216	0	18.31	18.19	18.39	19.00
	DFT-s-OFDM 16QAM	1	1	18.09	18.33	18.35	19.00
	DFT-s-OFDM 64QAM	1	1	18.12	17.88	17.86	19.00

	DFT-s-OFDM 256QAM	1	1	17.89	17.97	17.77	19.00
	CP-OFDM QPSK	1	1	18.08	17.96	18.26	19.00
	CP-OFDM 16QAM	1	1	18.09	18.27	18.27	19.00
	CP-OFDM 64QAM	1	1	18.24	18.22	18.18	19.00
	CP-OFDM 256QAM	1	1	18.42	18.68	18.44	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	18.09	17.95	18.01	19.00
		1	243	18.29	18.37	18.27	19.00
		120	60	18.15	18.41	18.39	19.00
		243	0	18.21	18.29	18.41	19.00
	DFT-s-OFDM QPSK	1	1	18.22	18.20	18.24	19.00
		1	243	18.20	18.36	18.28	19.00
		120	60	18.28	18.12	18.40	19.00
		243	0	18.27	18.39	18.31	19.00
	DFT-s-OFDM 16QAM	1	1	18.07	18.15	18.19	19.00
	DFT-s-OFDM 64QAM	1	1	18.06	17.94	17.84	19.00
	DFT-s-OFDM 256QAM	1	1	17.95	17.97	17.87	19.00
	CP-OFDM QPSK	1	1	18.04	18.06	18.04	19.00
	CP-OFDM 16QAM	1	1	18.03	18.01	18.15	19.00
	CP-OFDM 64QAM	1	1	18.28	18.36	18.26	19.00
	CP-OFDM 256QAM	1	1	18.56	18.56	18.42	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	18.07	/	19.00
		1	271	/	18.35	/	19.00
		135	67	/	18.27	/	19.00
		270	0	/	18.27	/	19.00
	DFT-s-OFDM QPSK	1	1	/	18.14	/	19.00
		1	271	/	18.28	/	19.00
		135	67	/	18.41	/	19.00
		270	0	/	18.25	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	18.19	/	19.00
	DFT-s-OFDM 64QAM	1	1	/	17.90	/	19.00
	DFT-s-OFDM 256QAM	1	1	/	17.95	/	19.00
	CP-OFDM QPSK	1	1	/	18.06	/	19.00

	CP-OFDM 16QAM	1	1	/	18.09	/	19.00
	CP-OFDM 64QAM	1	1	/	18.24	/	19.00
	CP-OFDM 256QAM	1	1	/	18.48	/	19.00
n78							
Hotspot on--Ant7				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	12.14	12.32	11.64	12.50
		1	49	12.14	12.08	11.94	12.50
		25	12	12.20	12.00	12.38	12.50
		50	0	12.16	12.00	12.38	12.50
	DFT-s-OFDM QPSK	1	1	11.85	11.65	11.79	12.50
		1	49	12.19	12.19	12.33	12.50
		25	12	11.84	12.04	11.58	12.50
		50	0	11.99	11.99	11.79	12.50
	DFT-s-OFDM 16QAM	1	1	11.98	12.16	12.04	12.50
	DFT-s-OFDM 64QAM	1	1	12.02	11.72	11.44	12.50
	DFT-s-OFDM 256QAM	1	1	11.74	11.50	11.62	12.50
	CP-OFDM QPSK	1	1	12.40	12.04	11.96	12.50
	CP-OFDM 16QAM	1	1	12.09	12.13	12.23	12.50
	CP-OFDM 64QAM	1	1	11.64	11.94	11.74	12.50
CP-OFDM 256QAM	1	1	11.84	11.62	12.06	12.50	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	12.16	12.26	11.66	12.50
		1	49	12.18	12.08	11.96	12.50
		25	12	12.36	12.20	12.20	12.50
		50	0	12.28	12.24	12.32	12.50
	DFT-s-OFDM QPSK	1	1	11.93	11.79	11.77	12.50
		1	49	12.05	12.19	12.11	12.50
		25	12	12.08	12.12	11.66	12.50
		50	0	12.09	12.27	11.77	12.50
	DFT-s-OFDM 16QAM	1	1	12.28	11.98	11.98	12.50
	DFT-s-OFDM 64QAM	1	1	11.98	11.86	11.72	12.50
	DFT-s-OFDM 256QAM	1	1	11.64	11.72	11.82	12.50
	CP-OFDM QPSK	1	1	12.26	11.78	11.82	12.50

	CP-OFDM 16QAM	1	1	12.07	12.13	12.21	12.50
	CP-OFDM 64QAM	1	1	11.86	11.96	11.86	12.50
	CP-OFDM 256QAM	1	1	12.04	11.90	12.12	12.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	12.04	12.22	11.68	12.50
		1	49	12.12	12.14	11.94	12.50
		25	12	12.24	12.14	12.16	12.50
		50	0	12.34	12.08	12.20	12.50
	DFT-s-OFDM QPSK	1	1	11.87	11.73	11.65	12.50
		1	49	12.09	12.27	12.15	12.50
		25	12	11.98	12.06	11.62	12.50
		50	0	11.95	12.13	11.89	12.50
	DFT-s-OFDM 16QAM	1	1	12.12	12.10	12.02	12.50
	DFT-s-OFDM 64QAM	1	1	11.92	11.74	11.58	12.50
	DFT-s-OFDM 256QAM	1	1	11.56	11.58	11.66	12.50
	CP-OFDM QPSK	1	1	12.18	11.86	11.74	12.50
	CP-OFDM 16QAM	1	1	11.95	12.03	12.07	12.50
	CP-OFDM 64QAM	1	1	11.78	11.96	11.84	12.50
	CP-OFDM 256QAM	1	1	12.00	11.80	12.00	12.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	11.98	12.06	11.56	12.50
		1	76	11.92	12.40	12.04	12.50
		36	18	12.40	12.40	12.28	12.50
		75	0	12.44	12.20	12.36	12.50
	DFT-s-OFDM QPSK	1	1	11.95	11.69	11.55	12.50
		1	76	12.05	12.45	12.03	12.50
		36	18	12.22	12.40	11.96	12.50
		75	0	11.91	11.97	12.15	12.50
	DFT-s-OFDM 16QAM	1	1	12.24	12.20	12.20	12.50
	DFT-s-OFDM 64QAM	1	1	11.84	11.76	11.58	12.50
	DFT-s-OFDM 256QAM	1	1	11.88	11.74	11.82	12.50
	CP-OFDM QPSK	1	1	12.28	11.70	11.74	12.50
	CP-OFDM 16QAM	1	1	11.97	11.89	11.95	12.50
	CP-OFDM 64QAM	1	1	11.70	12.18	11.94	12.50

	CP-OFDM 256QAM	1	1	11.94	12.22	12.40	12.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	12.08	12.00	11.78	12.50
		1	104	11.98	12.12	12.20	12.50
		50	25	12.20	12.20	12.12	12.50
		100	0	12.30	12.02	12.30	12.50
	DFT-s-OFDM QPSK	1	1	11.97	11.73	11.69	12.50
		1	104	12.15	12.35	12.13	12.50
		50	25	12.26	12.32	11.82	12.50
		100	0	11.93	12.15	11.97	12.50
	DFT-s-OFDM 16QAM	1	1	12.20	12.36	12.02	12.50
	DFT-s-OFDM 64QAM	1	1	12.02	12.00	11.50	12.50
	DFT-s-OFDM 256QAM	1	1	11.72	11.90	11.84	12.50
	CP-OFDM QPSK	1	1	12.04	11.86	11.66	12.50
	CP-OFDM 16QAM	1	1	12.11	11.93	12.17	12.50
	CP-OFDM 64QAM	1	1	11.62	12.14	11.88	12.50
	CP-OFDM 256QAM	1	1	12.18	11.88	12.18	12.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	11.70	11.82	12.02	12.50
		1	131	12.26	11.84	12.30	12.50
		64	32	12.16	11.98	12.02	12.50
		128	0	12.04	12.30	12.10	12.50
	DFT-s-OFDM QPSK	1	1	12.27	12.01	11.81	12.50
		1	131	12.47	12.07	12.27	12.50
		64	32	12.28	12.14	11.96	12.50
		128	0	12.31	11.97	12.01	12.50
	DFT-s-OFDM 16QAM	1	1	12.08	11.98	11.84	12.50
	DFT-s-OFDM 64QAM	1	1	11.56	12.02	11.64	12.50
	DFT-s-OFDM 256QAM	1	1	11.96	11.94	11.60	12.50
	CP-OFDM QPSK	1	1	12.04	12.00	12.14	12.50
	CP-OFDM 16QAM	1	1	11.93	11.89	11.69	12.50
	CP-OFDM 64QAM	1	1	12.14	12.06	12.00	12.50
	CP-OFDM 256QAM	1	1	12.08	12.22	12.34	12.50
Bandwidth	Modulation		offset	Channel/Frequency(MHz)			Tune-up

		RB allocation		632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	12.02	11.92	12.02	12.50
		1	160	12.06	12.18	12.18	12.50
		81	40	12.18	12.12	11.98	12.50
		162	0	12.14	12.14	12.26	12.50
	DFT-s-OFDM QPSK	1	1	11.89	12.15	12.15	12.50
		1	160	12.21	12.29	12.41	12.50
		81	40	12.08	12.14	12.02	12.50
		162	0	11.99	12.07	12.13	12.50
	DFT-s-OFDM 16QAM	1	1	11.94	12.04	11.98	12.50
	DFT-s-OFDM 64QAM	1	1	11.64	11.76	11.76	12.50
	DFT-s-OFDM 256QAM	1	1	11.86	11.94	11.68	12.50
	CP-OFDM QPSK	1	1	11.96	11.94	11.92	12.50
	CP-OFDM 16QAM	1	1	12.01	11.79	12.03	12.50
	CP-OFDM 64QAM	1	1	12.02	12.04	12.12	12.50
	CP-OFDM 256QAM	1	1	12.24	12.28	12.24	12.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	11.90	11.72	12.02	12.50
		1	187	12.06	12.10	12.06	12.50
		92	45	12.16	12.04	11.96	12.50
		180	0	12.12	12.06	12.06	12.50
	DFT-s-OFDM QPSK	1	1	12.03	11.85	12.03	12.50
		1	187	12.29	12.13	12.13	12.50
		92	45	11.84	12.12	11.90	12.50
		180	0	11.89	11.87	12.01	12.50
	DFT-s-OFDM 16QAM	1	1	12.12	12.00	12.02	12.50
	DFT-s-OFDM 64QAM	1	1	11.54	11.82	11.58	12.50
	DFT-s-OFDM 256QAM	1	1	11.64	11.74	11.84	12.50
	CP-OFDM QPSK	1	1	11.80	11.94	11.86	12.50
	CP-OFDM 16QAM	1	1	11.71	11.79	11.81	12.50
	CP-OFDM 64QAM	1	1	12.12	11.94	11.94	12.50
	CP-OFDM 256QAM	1	1	12.16	12.24	12.06	12.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz		1	1	11.94	12.10	12.12	12.50

	DFT-s-OFDM BPSK	1	215	12.08	12.20	12.18	12.50
		108	54	12.04	12.02	12.20	12.50
		216	0	12.36	12.14	12.22	12.50
	DFT-s-OFDM QPSK	1	1	12.05	12.13	11.87	12.50
		1	215	12.23	12.47	12.43	12.50
		108	54	12.04	12.06	12.02	12.50
		216	0	12.07	11.89	12.15	12.50
	DFT-s-OFDM 16QAM	1	1	11.90	12.10	12.16	12.50
	DFT-s-OFDM 64QAM	1	1	11.56	11.66	11.64	12.50
	DFT-s-OFDM 256QAM	1	1	11.94	11.96	11.82	12.50
	CP-OFDM QPSK	1	1	12.10	12.00	11.74	12.50
	CP-OFDM 16QAM	1	1	11.81	11.87	11.79	12.50
	CP-OFDM 64QAM	1	1	12.20	12.00	12.20	12.50
	CP-OFDM 256QAM	1	1	12.40	12.20	12.36	12.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	12.04	11.94	11.92	12.50
		1	243	12.22	12.08	12.06	12.50
		120	60	12.08	11.96	12.12	12.50
		243	0	12.08	12.10	12.34	12.50
	DFT-s-OFDM QPSK	1	1	12.13	12.13	12.01	12.50
		1	243	12.25	12.27	12.39	12.50
		120	60	12.10	12.14	12.04	12.50
		243	0	12.19	11.97	12.23	12.50
	DFT-s-OFDM 16QAM	1	1	11.92	12.10	12.18	12.50
	DFT-s-OFDM 64QAM	1	1	11.60	11.60	11.84	12.50
	DFT-s-OFDM 256QAM	1	1	11.78	11.78	11.90	12.50
	CP-OFDM QPSK	1	1	11.82	11.98	11.98	12.50
	CP-OFDM 16QAM	1	1	12.03	11.81	11.87	12.50
	CP-OFDM 64QAM	1	1	11.98	12.04	11.98	12.50
	CP-OFDM 256QAM	1	1	12.14	12.30	12.18	12.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	11.92	/	12.50
		1	271	/	12.16	/	12.50
		135	67	/	12.08	/	12.50

		270	0	/	12.18	/	12.50
	DFT-s-OFDM QPSK	1	1	/	11.99	/	12.50
		1	271	/	12.25	/	12.50
		135	67	/	12.04	/	12.50
		270	0	/	12.07	/	12.50
	DFT-s-OFDM 16QAM	1	1	/	12.04	/	12.50
	DFT-s-OFDM 64QAM	1	1	/	11.72	/	12.50
	DFT-s-OFDM 256QAM	1	1	/	11.78	/	12.50
	CP-OFDM QPSK	1	1	/	11.88	/	12.50
	CP-OFDM 16QAM	1	1	/	11.89	/	12.50
	CP-OFDM 64QAM	1	1	/	12.10	/	12.50
	CP-OFDM 256QAM	1	1	/	12.26	/	12.50
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Receiver on--Ant12				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	15.65	15.91	15.69	16.20
		1	49	15.29	15.75	15.25	16.20
		25	12	15.61	15.59	15.49	16.20
		50	0	15.53	15.49	15.67	16.20
	DFT-s-OFDM QPSK	1	1	15.37	15.25	15.85	16.20
		1	49	15.60	15.34	15.38	16.20
		25	12	16.02	15.72	15.48	16.20
		50	0	15.34	15.50	15.22	16.20
	DFT-s-OFDM 16QAM	1	1	15.56	15.20	15.46	16.20
	DFT-s-OFDM 64QAM	1	1	15.63	15.41	15.41	16.20
	DFT-s-OFDM 256QAM	1	1	15.75	15.71	15.17	16.20
	CP-OFDM QPSK	1	1	15.31	15.19	15.77	16.20
	CP-OFDM 16QAM	1	1	15.53	15.33	15.29	16.20
	CP-OFDM 64QAM	1	1	15.60	15.42	15.24	16.20
CP-OFDM 256QAM	1	1	15.38	15.46	15.54	16.20	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	15.43	15.67	15.75	16.20
		1	49	15.13	15.77	15.31	16.20
		25	12	15.69	15.59	15.65	16.20

		50	0	15.21	15.61	15.57	16.20
	DFT-s-OFDM QPSK	1	1	15.45	15.51	16.01	16.20
		1	49	15.44	15.36	15.64	16.20
		25	12	15.88	15.86	15.48	16.20
		50	0	15.30	15.44	15.06	16.20
	DFT-s-OFDM 16QAM	1	1	15.66	15.34	15.34	16.20
	DFT-s-OFDM 64QAM	1	1	15.47	15.33	15.55	16.20
	DFT-s-OFDM 256QAM	1	1	15.69	15.83	15.19	16.20
	CP-OFDM QPSK	1	1	15.37	15.51	15.71	16.20
	CP-OFDM 16QAM	1	1	15.37	15.59	15.35	16.20
	CP-OFDM 64QAM	1	1	15.58	15.30	15.38	16.20
	CP-OFDM 256QAM	1	1	15.58	15.76	15.78	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	15.53	15.69	15.77	16.20
		1	49	15.25	15.63	15.43	16.20
		25	12	15.71	15.69	15.61	16.20
		50	0	15.33	15.55	15.63	16.20
	DFT-s-OFDM QPSK	1	1	15.39	15.41	15.83	16.20
		1	49	15.54	15.32	15.54	16.20
		25	12	15.82	15.76	15.46	16.20
		50	0	15.14	15.50	15.18	16.20
	DFT-s-OFDM 16QAM	1	1	15.68	15.32	15.26	16.20
	DFT-s-OFDM 64QAM	1	1	15.49	15.45	15.47	16.20
	DFT-s-OFDM 256QAM	1	1	15.81	15.77	15.27	16.20
	CP-OFDM QPSK	1	1	15.29	15.35	15.55	16.20
	CP-OFDM 16QAM	1	1	15.31	15.51	15.47	16.20
	CP-OFDM 64QAM	1	1	15.54	15.28	15.38	16.20
	CP-OFDM 256QAM	1	1	15.52	15.62	15.68	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	15.37	15.69	15.91	16.20
		1	76	15.31	15.63	15.69	16.20
		36	18	15.83	15.81	15.49	16.20
		75	0	15.61	15.49	15.41	16.20
		1	1	15.59	15.47	15.67	16.20

	DFT-s-OFDM QPSK	1	76	15.56	15.24	15.68	16.20
		36	18	15.88	15.72	15.36	16.20
		75	0	15.46	15.76	15.48	16.20
	DFT-s-OFDM 16QAM	1	1	15.64	15.26	15.12	16.20
	DFT-s-OFDM 64QAM	1	1	15.25	15.41	15.67	16.20
	DFT-s-OFDM 256QAM	1	1	16.09	15.85	15.63	16.20
	CP-OFDM QPSK	1	1	15.13	15.45	15.61	16.20
	CP-OFDM 16QAM	1	1	15.49	15.67	15.37	16.20
	CP-OFDM 64QAM	1	1	15.66	15.40	15.50	16.20
	CP-OFDM 256QAM	1	1	15.80	15.72	15.62	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	15.53	15.85	15.81	16.20
		1	104	15.51	15.79	15.75	16.20
		50	25	15.81	15.69	15.55	16.20
		100	0	15.55	15.47	15.51	16.20
	DFT-s-OFDM QPSK	1	1	15.43	15.77	15.75	16.20
		1	104	15.80	15.44	15.48	16.20
		50	25	15.88	15.72	15.34	16.20
		100	0	15.34	15.56	15.32	16.20
	DFT-s-OFDM 16QAM	1	1	15.52	15.58	15.18	16.20
	DFT-s-OFDM 64QAM	1	1	15.59	15.67	15.61	16.20
	DFT-s-OFDM 256QAM	1	1	16.11	15.79	15.37	16.20
	CP-OFDM QPSK	1	1	15.15	15.53	15.65	16.20
	CP-OFDM 16QAM	1	1	15.47	15.55	15.35	16.20
	CP-OFDM 64QAM	1	1	15.64	15.32	15.46	16.20
	CP-OFDM 256QAM	1	1	15.70	15.54	15.58	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	15.47	15.81	15.73	16.20
		1	131	15.45	15.69	15.63	16.20
		64	32	15.63	15.67	15.61	16.20
		128	0	15.43	15.51	15.55	16.20
	DFT-s-OFDM QPSK	1	1	15.41	15.59	15.75	16.20
		1	131	15.62	15.38	15.52	16.20
		64	32	15.82	15.82	15.40	16.20

		128	0	15.34	15.56	15.28	16.20
	DFT-s-OFDM 16QAM	1	1	15.64	15.44	15.28	16.20
	DFT-s-OFDM 64QAM	1	1	15.43	15.49	15.53	16.20
	DFT-s-OFDM 256QAM	1	1	15.95	15.87	15.43	16.20
	CP-OFDM QPSK	1	1	15.21	15.53	15.53	16.20
	CP-OFDM 16QAM	1	1	15.35	15.47	15.47	16.20
	CP-OFDM 64QAM	1	1	15.54	15.36	15.42	16.20
	CP-OFDM 256QAM	1	1	15.70	15.62	15.62	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	15.69	15.71	15.67	16.20
		1	160	15.67	15.69	15.51	16.20
		81	40	15.73	15.65	15.49	16.20
		162	0	15.75	15.75	15.53	16.20
	DFT-s-OFDM QPSK	1	1	15.69	15.61	15.73	16.20
		1	160	15.60	15.66	15.74	16.20
		81	40	15.64	15.50	15.52	16.20
		162	0	15.44	15.70	15.56	16.20
	DFT-s-OFDM 16QAM	1	1	15.48	15.60	15.74	16.20
	DFT-s-OFDM 64QAM	1	1	15.37	15.41	15.27	16.20
	DFT-s-OFDM 256QAM	1	1	15.85	15.83	15.67	16.20
	CP-OFDM QPSK	1	1	15.65	15.69	15.53	16.20
	CP-OFDM 16QAM	1	1	15.47	15.55	15.47	16.20
	CP-OFDM 64QAM	1	1	15.42	15.40	15.48	16.20
	CP-OFDM 256QAM	1	1	15.72	15.56	15.62	16.20
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	15.51	15.45	16.20
		1	187	15.49	15.53	15.63	16.20
		92	45	15.63	15.39	15.59	16.20
		180	0	15.57	15.43	15.49	16.20
	DFT-s-OFDM QPSK	1	1	15.47	15.67	15.43	16.20
		1	187	15.54	15.62	15.64	16.20
		92	45	15.54	15.60	15.46	16.20
		180	0	15.64	15.42	15.36	16.20
	DFT-s-OFDM 16QAM	1	1	15.64	15.40	15.64	16.20

	DFT-s-OFDM 64QAM	1	1	15.17	15.37	15.41	16.20
	DFT-s-OFDM 256QAM	1	1	15.67	15.53	15.57	16.20
	CP-OFDM QPSK	1	1	15.49	15.61	15.49	16.20
	CP-OFDM 16QAM	1	1	15.37	15.51	15.63	16.20
	CP-OFDM 64QAM	1	1	15.38	15.34	15.32	16.20
	CP-OFDM 256QAM	1	1	15.62	15.64	15.42	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	15.61	15.51	15.45	16.20
		1	215	15.75	15.73	15.53	16.20
		108	54	15.43	15.55	15.63	16.20
		216	0	15.75	15.63	15.71	16.20
	DFT-s-OFDM QPSK	1	1	15.65	15.65	15.43	16.20
		1	215	15.60	15.78	15.64	16.20
		108	54	15.44	15.62	15.78	16.20
		216	0	15.60	15.60	15.50	16.20
	DFT-s-OFDM 16QAM	1	1	15.76	15.52	15.64	16.20
	DFT-s-OFDM 64QAM	1	1	15.47	15.31	15.37	16.20
	DFT-s-OFDM 256QAM	1	1	15.83	15.75	15.87	16.20
	CP-OFDM QPSK	1	1	15.73	15.55	15.41	16.20
	CP-OFDM 16QAM	1	1	15.47	15.47	15.51	16.20
	CP-OFDM 64QAM	1	1	15.68	15.66	15.72	16.20
	CP-OFDM 256QAM	1	1	15.58	15.72	15.48	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	15.73	15.67	15.63	16.20
		1	243	15.51	15.45	15.59	16.20
		120	60	15.69	15.51	15.45	16.20
		243	0	15.53	15.57	15.77	16.20
	DFT-s-OFDM QPSK	1	1	15.51	15.61	15.61	16.20
		1	243	15.64	15.46	15.68	16.20
		120	60	15.72	15.68	15.50	16.20
		243	0	15.42	15.50	15.44	16.20
	DFT-s-OFDM 16QAM	1	1	15.70	15.68	15.54	16.20
	DFT-s-OFDM 64QAM	1	1	15.33	15.35	15.25	16.20

	DFT-s-OFDM 256QAM	1	1	15.75	15.57	15.81	16.20
	CP-OFDM QPSK	1	1	15.67	15.51	15.63	16.20
	CP-OFDM 16QAM	1	1	15.53	15.57	15.41	16.20
	CP-OFDM 64QAM	1	1	15.40	15.62	15.56	16.20
	CP-OFDM 256QAM	1	1	15.56	15.54	15.80	16.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	15.55	/	16.20
		1	271	/	15.53	/	16.20
		135	67	/	15.57	/	16.20
		270	0	/	15.59	/	16.20
	DFT-s-OFDM QPSK	1	1	/	15.61	/	16.20
		1	271	/	15.58	/	16.20
		135	67	/	15.56	/	16.20
		270	0	/	15.54	/	16.20
	DFT-s-OFDM 16QAM	1	1	/	15.58	/	16.20
	DFT-s-OFDM 64QAM	1	1	/	15.31	/	16.20
	DFT-s-OFDM 256QAM	1	1	/	15.69	/	16.20
	CP-OFDM QPSK	1	1	/	15.55	/	16.20
	CP-OFDM 16QAM	1	1	/	15.53	/	16.20
	CP-OFDM 64QAM	1	1	/	15.50	/	16.20
	CP-OFDM 256QAM	1	1	/	15.62	/	16.20
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Receiver off--Ant12				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz	DFT-s-OFDM BPSK	1	1	17.96	18.00	17.94	18.70
		1	49	17.39	17.89	18.11	18.70
		25	12	17.78	18.02	18.06	18.70
		50	0	18.19	17.81	18.13	18.70
	DFT-s-OFDM QPSK	1	1	17.76	17.80	18.32	18.70
		1	49	18.03	17.81	17.79	18.70
		25	12	18.27	18.47	18.27	18.70
		50	0	17.71	18.29	18.01	18.70
	DFT-s-OFDM 16QAM	1	1	18.15	18.09	18.59	18.70
	DFT-s-OFDM 64QAM	1	1	17.49	17.27	18.07	18.70

	DFT-s-OFDM 256QAM	1	1	18.10	18.04	18.48	18.70
	CP-OFDM QPSK	1	1	18.52	18.06	18.12	18.70
	CP-OFDM 16QAM	1	1	17.57	17.97	17.75	18.70
	CP-OFDM 64QAM	1	1	18.06	18.16	18.04	18.70
	CP-OFDM 256QAM	1	1	17.78	17.88	17.88	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	18.32	17.98	18.10	18.70
		1	49	17.71	17.67	18.03	18.70
		25	12	17.86	18.22	18.02	18.70
		50	0	18.27	17.85	18.11	18.70
	DFT-s-OFDM QPSK	1	1	18.06	17.86	17.96	18.70
		1	49	18.13	17.95	18.03	18.70
		25	12	18.49	18.19	18.23	18.70
		50	0	17.83	18.01	17.99	18.70
	DFT-s-OFDM 16QAM	1	1	18.27	18.27	18.47	18.70
	DFT-s-OFDM 64QAM	1	1	17.85	17.53	18.27	18.70
	DFT-s-OFDM 256QAM	1	1	18.32	18.10	18.52	18.70
	CP-OFDM QPSK	1	1	18.42	18.08	18.00	18.70
	CP-OFDM 16QAM	1	1	17.67	18.13	18.15	18.70
	CP-OFDM 64QAM	1	1	18.04	18.10	18.00	18.70
	CP-OFDM 256QAM	1	1	18.14	18.06	17.92	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	18.20	17.98	18.00	18.70
		1	49	17.61	17.71	17.95	18.70
		25	12	17.92	18.24	17.94	18.70
		50	0	18.25	17.85	17.93	18.70
	DFT-s-OFDM QPSK	1	1	18.00	17.94	18.08	18.70
		1	49	18.09	17.97	18.07	18.70
		25	12	18.37	18.29	18.35	18.70
		50	0	17.85	18.09	17.99	18.70
	DFT-s-OFDM 16QAM	1	1	18.37	18.21	18.57	18.70
	DFT-s-OFDM 64QAM	1	1	17.67	17.47	18.09	18.70
	DFT-s-OFDM 256QAM	1	1	18.14	18.08	18.38	18.70
	CP-OFDM QPSK	1	1	18.32	18.16	17.88	18.70

	CP-OFDM 16QAM	1	1	17.69	18.09	18.09	18.70
	CP-OFDM 64QAM	1	1	17.98	18.00	18.04	18.70
	CP-OFDM 256QAM	1	1	18.00	17.92	17.88	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	18.16	18.00	18.16	18.70
		1	76	17.55	17.81	18.07	18.70
		36	18	18.14	18.38	17.98	18.70
		75	0	18.43	18.11	17.99	18.70
	DFT-s-OFDM QPSK	1	1	18.16	18.18	18.30	18.70
		1	76	18.05	18.13	18.19	18.70
		36	18	18.33	18.17	18.29	18.70
		75	0	17.65	18.31	18.07	18.70
	DFT-s-OFDM 16QAM	1	1	18.41	18.15	18.37	18.70
	DFT-s-OFDM 64QAM	1	1	17.91	17.41	17.95	18.70
	DFT-s-OFDM 256QAM	1	1	18.40	18.30	18.42	18.70
	CP-OFDM QPSK	1	1	18.42	18.24	17.86	18.70
	CP-OFDM 16QAM	1	1	17.55	17.95	17.95	18.70
	CP-OFDM 64QAM	1	1	18.10	18.32	18.18	18.70
	CP-OFDM 256QAM	1	1	18.22	18.08	17.92	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	18.16	17.80	18.30	18.70
		1	104	17.83	17.97	17.77	18.70
		50	25	18.06	18.24	18.18	18.70
		100	0	18.39	18.13	17.85	18.70
	DFT-s-OFDM QPSK	1	1	18.04	18.12	18.36	18.70
		1	104	18.25	17.99	18.11	18.70
		50	25	18.35	18.37	18.43	18.70
		100	0	17.89	18.37	18.03	18.70
	DFT-s-OFDM 16QAM	1	1	18.27	18.41	18.47	18.70
	DFT-s-OFDM 64QAM	1	1	17.85	17.59	18.07	18.70
	DFT-s-OFDM 256QAM	1	1	18.24	18.22	18.36	18.70
	CP-OFDM QPSK	1	1	18.28	18.16	17.88	18.70
	CP-OFDM 16QAM	1	1	17.77	18.11	18.01	18.70
	CP-OFDM 64QAM	1	1	18.14	18.14	18.04	18.70

	CP-OFDM 256QAM	1	1	18.06	18.02	18.24	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	18.16	17.88	18.14	18.70
		1	131	17.71	17.81	17.85	18.70
		64	32	18.08	18.26	18.06	18.70
		128	0	18.29	17.95	17.83	18.70
	DFT-s-OFDM QPSK	1	1	17.98	18.02	18.20	18.70
		1	131	18.19	17.99	18.09	18.70
		64	32	18.33	18.21	18.35	18.70
		128	0	17.81	18.19	17.93	18.70
	DFT-s-OFDM 16QAM	1	1	18.29	18.31	18.47	18.70
	DFT-s-OFDM 64QAM	1	1	17.81	17.53	17.99	18.70
	DFT-s-OFDM 256QAM	1	1	18.32	18.10	18.28	18.70
	CP-OFDM QPSK	1	1	18.34	18.18	17.88	18.70
	CP-OFDM 16QAM	1	1	17.69	18.09	18.05	18.70
	CP-OFDM 64QAM	1	1	18.02	18.12	18.14	18.70
	CP-OFDM 256QAM	1	1	18.14	18.04	18.08	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	17.92	17.94	17.98	18.70
		1	160	18.19	18.11	18.17	18.70
		81	40	18.24	18.08	18.20	18.70
		162	0	18.13	18.07	18.21	18.70
	DFT-s-OFDM QPSK	1	1	18.04	18.22	18.18	18.70
		1	160	18.05	18.17	18.03	18.70
		81	40	18.11	18.27	18.05	18.70
		162	0	17.99	17.99	17.97	18.70
	DFT-s-OFDM 16QAM	1	1	18.23	18.27	18.11	18.70
	DFT-s-OFDM 64QAM	1	1	17.93	17.75	17.89	18.70
	DFT-s-OFDM 256QAM	1	1	18.30	18.24	18.18	18.70
	CP-OFDM QPSK	1	1	18.14	18.16	18.20	18.70
	CP-OFDM 16QAM	1	1	17.97	17.95	17.99	18.70
	CP-OFDM 64QAM	1	1	18.16	18.28	18.26	18.70
	CP-OFDM 256QAM	1	1	18.24	18.18	18.28	18.70
Bandwidth	Modulation		offset	Channel/Frequency(MHz)			Tune-up

		RB allocation		632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	17.90	17.94	17.96	18.70
		1	187	18.13	18.03	18.05	18.70
		92	45	18.02	17.96	18.12	18.70
		180	0	18.11	18.01	17.97	18.70
	DFT-s-OFDM QPSK	1	1	17.92	17.92	18.04	18.70
		1	187	18.15	17.93	17.95	18.70
		92	45	18.15	18.03	18.15	18.70
		180	0	17.91	18.01	18.05	18.70
	DFT-s-OFDM 16QAM	1	1	18.19	18.31	18.27	18.70
	DFT-s-OFDM 64QAM	1	1	17.77	17.65	17.87	18.70
	DFT-s-OFDM 256QAM	1	1	18.06	18.26	18.24	18.70
	CP-OFDM QPSK	1	1	18.12	18.22	18.08	18.70
	CP-OFDM 16QAM	1	1	17.97	18.09	17.85	18.70
	CP-OFDM 64QAM	1	1	18.02	17.96	18.04	18.70
	CP-OFDM 256QAM	1	1	18.16	18.12	18.04	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	18.24	18.24	17.98	18.70
		1	215	18.21	18.17	18.01	18.70
		108	54	18.18	18.20	18.28	18.70
		216	0	17.89	18.19	17.93	18.70
	DFT-s-OFDM QPSK	1	1	18.26	18.18	17.98	18.70
		1	215	17.95	18.11	18.05	18.70
		108	54	18.27	18.23	18.15	18.70
		216	0	18.05	18.27	18.25	18.70
	DFT-s-OFDM 16QAM	1	1	18.09	18.03	18.09	18.70
	DFT-s-OFDM 64QAM	1	1	17.83	17.99	17.77	18.70
	DFT-s-OFDM 256QAM	1	1	18.28	18.00	18.36	18.70
	CP-OFDM QPSK	1	1	18.38	18.38	18.02	18.70
	CP-OFDM 16QAM	1	1	18.09	18.17	17.87	18.70
	CP-OFDM 64QAM	1	1	18.22	18.18	18.24	18.70
	CP-OFDM 256QAM	1	1	18.18	17.98	18.04	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz		1	1	17.94	18.10	18.00	18.70

	DFT-s-OFDM BPSK	1	243	18.07	18.15	18.09	18.70
		120	60	18.18	18.14	18.22	18.70
		243	0	18.01	18.17	17.95	18.70
	DFT-s-OFDM QPSK	1	1	18.14	18.28	18.26	18.70
		1	243	18.25	18.21	18.19	18.70
		120	60	18.11	18.15	18.13	18.70
		243	0	17.99	18.05	18.23	18.70
	DFT-s-OFDM 16QAM	1	1	18.31	18.23	18.15	18.70
	DFT-s-OFDM 64QAM	1	1	17.77	17.73	17.69	18.70
	DFT-s-OFDM 256QAM	1	1	18.32	18.34	18.10	18.70
	CP-OFDM QPSK	1	1	18.20	18.08	18.18	18.70
	CP-OFDM 16QAM	1	1	18.07	18.17	17.99	18.70
	CP-OFDM 64QAM	1	1	18.30	18.22	18.18	18.70
	CP-OFDM 256QAM	1	1	18.12	18.20	18.10	18.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	18.02	/	18.70
		1	271	/	18.03	/	18.70
		135	67	/	18.10	/	18.70
		270	0	/	18.07	/	18.70
	DFT-s-OFDM QPSK	1	1	/	18.10	/	18.70
		1	271	/	18.09	/	18.70
		135	67	/	18.11	/	18.70
		270	0	/	18.05	/	18.70
	DFT-s-OFDM 16QAM	1	1	/	18.21	/	18.70
	DFT-s-OFDM 64QAM	1	1	/	17.81	/	18.70
	DFT-s-OFDM 256QAM	1	1	/	18.18	/	18.70
	CP-OFDM QPSK	1	1	/	18.16	/	18.70
	CP-OFDM 16QAM	1	1	/	18.01	/	18.70
	CP-OFDM 64QAM	1	1	/	18.14	/	18.70
	CP-OFDM 256QAM	1	1	/	18.14	/	18.70
n78							
Hotspot on--Ant12				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				630334/3455	633332/3500	636334/3545.01	
10MHz		1	1	13.43	13.57	13.55	14.20

	DFT-s-OFDM BPSK	1	49	13.75	12.93	13.73	14.20
		25	12	13.46	13.94	13.64	14.20
		50	0	13.73	13.47	13.09	14.20
	DFT-s-OFDM QPSK	1	1	13.80	13.46	14.14	14.20
		1	49	13.57	13.25	13.49	14.20
		25	12	13.50	13.36	13.38	14.20
		50	0	13.14	13.80	13.78	14.20
	DFT-s-OFDM 16QAM	1	1	13.48	13.82	13.58	14.20
	DFT-s-OFDM 64QAM	1	1	13.11	13.29	13.37	14.20
	DFT-s-OFDM 256QAM	1	1	13.91	13.67	13.53	14.20
	CP-OFDM QPSK	1	1	13.46	13.58	13.70	14.20
	CP-OFDM 16QAM	1	1	13.58	13.48	13.86	14.20
	CP-OFDM 64QAM	1	1	13.38	13.44	13.48	14.20
	CP-OFDM 256QAM	1	1	13.72	13.44	13.46	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630500/3457.5	633332/3500	636160/3542.4	
15MHz	DFT-s-OFDM BPSK	1	1	13.31	13.61	13.47	14.20
		1	49	13.87	13.15	13.51	14.20
		25	12	13.24	14.14	13.38	14.20
		50	0	13.81	13.27	13.15	14.20
	DFT-s-OFDM QPSK	1	1	13.62	13.52	14.20	14.20
		1	49	13.69	13.25	13.41	14.20
		25	12	13.58	13.42	13.08	14.20
		50	0	13.12	13.66	13.56	14.20
	DFT-s-OFDM 16QAM	1	1	13.64	13.54	13.78	14.20
	DFT-s-OFDM 64QAM	1	1	13.13	13.31	13.61	14.20
	DFT-s-OFDM 256QAM	1	1	14.03	13.69	13.85	14.20
	CP-OFDM QPSK	1	1	13.68	13.62	13.80	14.20
	CP-OFDM 16QAM	1	1	13.44	13.40	13.92	14.20
	CP-OFDM 64QAM	1	1	13.32	13.24	13.42	14.20
	CP-OFDM 256QAM	1	1	13.74	13.44	13.52	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				630666/3460	633332/3500	635998/3540	
20MHz	DFT-s-OFDM BPSK	1	1	13.35	13.61	13.41	14.20
		1	49	13.65	13.01	13.65	14.20
		25	12	13.30	13.96	13.50	14.20

		50	0	13.81	13.37	13.17	14.20
	DFT-s-OFDM QPSK	1	1	13.70	13.44	14.10	14.20
		1	49	13.65	13.33	13.49	14.20
		25	12	13.60	13.34	13.24	14.20
		50	0	13.22	13.74	13.64	14.20
	DFT-s-OFDM 16QAM	1	1	13.58	13.72	13.64	14.20
	DFT-s-OFDM 64QAM	1	1	13.13	13.21	13.47	14.20
	DFT-s-OFDM 256QAM	1	1	13.91	13.73	13.63	14.20
	CP-OFDM QPSK	1	1	13.54	13.68	13.66	14.20
	CP-OFDM 16QAM	1	1	13.48	13.54	13.84	14.20
	CP-OFDM 64QAM	1	1	13.32	13.42	13.50	14.20
	CP-OFDM 256QAM	1	1	13.58	13.54	13.52	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631000/3465	633332/3500	635666/3535	
30MHz	DFT-s-OFDM BPSK	1	1	13.27	13.67	13.41	14.20
		1	76	13.71	13.25	13.53	14.20
		36	18	13.46	14.12	13.60	14.20
		75	0	13.73	13.39	13.15	14.20
	DFT-s-OFDM QPSK	1	1	13.56	13.40	13.94	14.20
		1	76	13.57	13.27	13.67	14.20
		36	18	13.78	13.56	13.50	14.20
		75	0	13.22	13.56	13.68	14.20
	DFT-s-OFDM 16QAM	1	1	13.60	13.64	13.44	14.20
	DFT-s-OFDM 64QAM	1	1	13.33	13.19	13.45	14.20
	DFT-s-OFDM 256QAM	1	1	13.77	13.79	13.67	14.20
	CP-OFDM QPSK	1	1	13.50	13.76	13.70	14.20
	CP-OFDM 16QAM	1	1	13.78	13.34	13.82	14.20
	CP-OFDM 64QAM	1	1	13.50	13.40	13.52	14.20
	CP-OFDM 256QAM	1	1	13.70	13.78	13.78	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631332/3470	633332/3500	635332/3530	
40MHz	DFT-s-OFDM BPSK	1	1	13.29	13.89	13.69	14.20
		1	104	13.63	13.13	13.61	14.20
		50	25	13.28	13.90	13.64	14.20
		100	0	14.01	13.35	13.19	14.20
		1	1	13.48	13.72	14.02	14.20

	DFT-s-OFDM QPSK	1	104	13.73	13.53	13.77	14.20
		50	25	13.62	13.62	13.58	14.20
		100	0	13.38	13.80	13.78	14.20
	DFT-s-OFDM 16QAM	1	1	13.82	13.68	13.76	14.20
	DFT-s-OFDM 64QAM	1	1	13.47	13.33	13.53	14.20
	DFT-s-OFDM 256QAM	1	1	13.75	13.81	13.61	14.20
	CP-OFDM QPSK	1	1	13.78	13.66	13.62	14.20
	CP-OFDM 16QAM	1	1	13.76	13.34	13.98	14.20
	CP-OFDM 64QAM	1	1	13.54	13.50	13.36	14.20
	CP-OFDM 256QAM	1	1	13.66	13.82	13.66	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				631667/3475	633332/3500	634998/3525	
50MHz	DFT-s-OFDM BPSK	1	1	13.39	13.71	13.57	14.20
		1	131	13.57	13.21	13.67	14.20
		64	32	13.26	13.92	13.64	14.20
		128	0	13.83	13.27	13.21	14.20
	DFT-s-OFDM QPSK	1	1	13.60	13.58	14.02	14.20
		1	131	13.61	13.35	13.61	14.20
		64	32	13.62	13.54	13.44	14.20
		128	0	13.40	13.66	13.62	14.20
	DFT-s-OFDM 16QAM	1	1	13.74	13.76	13.62	14.20
	DFT-s-OFDM 64QAM	1	1	13.33	13.25	13.51	14.20
	DFT-s-OFDM 256QAM	1	1	13.83	13.75	13.53	14.20
	CP-OFDM QPSK	1	1	13.68	13.60	13.68	14.20
	CP-OFDM 16QAM	1	1	13.60	13.44	13.92	14.20
	CP-OFDM 64QAM	1	1	13.38	13.36	13.42	14.20
	CP-OFDM 256QAM	1	1	13.60	13.70	13.60	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632000/3480	633332/3500	634666/3520	
60MHz	DFT-s-OFDM BPSK	1	1	13.77	13.73	13.79	14.20
		1	160	13.59	13.51	13.47	14.20
		81	40	13.72	13.52	13.62	14.20
		162	0	13.51	13.53	13.61	14.20
	DFT-s-OFDM QPSK	1	1	13.70	13.68	13.82	14.20
		1	160	13.65	13.63	13.73	14.20
		81	40	13.76	13.76	13.64	14.20

		162	0	13.78	13.64	13.68	14.20
	DFT-s-OFDM 16QAM	1	1	13.62	13.60	13.78	14.20
	DFT-s-OFDM 64QAM	1	1	13.47	13.27	13.51	14.20
	DFT-s-OFDM 256QAM	1	1	13.75	13.83	13.83	14.20
	CP-OFDM QPSK	1	1	13.64	13.76	13.82	14.20
	CP-OFDM 16QAM	1	1	13.56	13.64	13.72	14.20
	CP-OFDM 64QAM	1	1	13.54	13.70	13.60	14.20
	CP-OFDM 256QAM	1	1	13.58	13.84	13.68	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632333/3485	633332/3500	634333/3515	
70MHz	DFT-s-OFDM BPSK	1	1	13.53	13.59	13.57	14.20
		1	187	13.43	13.53	13.63	14.20
		92	45	13.56	13.58	13.66	14.20
		180	0	13.67	13.41	13.55	14.20
	DFT-s-OFDM QPSK	1	1	13.62	13.60	13.62	14.20
		1	187	13.45	13.63	13.41	14.20
		92	45	13.44	13.46	13.50	14.20
		180	0	13.48	13.48	13.46	14.20
	DFT-s-OFDM 16QAM	1	1	13.72	13.44	13.74	14.20
	DFT-s-OFDM 64QAM	1	1	13.47	13.23	13.21	14.20
	DFT-s-OFDM 256QAM	1	1	13.85	13.61	13.61	14.20
	CP-OFDM QPSK	1	1	13.64	13.70	13.74	14.20
	CP-OFDM 16QAM	1	1	13.44	13.56	13.64	14.20
	CP-OFDM 64QAM	1	1	13.44	13.44	13.50	14.20
	CP-OFDM 256QAM	1	1	13.62	13.70	13.70	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				632666/3490	633332/3500	633998/3510	
80MHz	DFT-s-OFDM BPSK	1	1	13.61	13.65	13.61	14.20
		1	215	13.63	13.41	13.61	14.20
		108	54	13.74	13.66	13.46	14.20
		216	0	13.43	13.49	13.39	14.20
	DFT-s-OFDM QPSK	1	1	13.70	13.76	13.80	14.20
		1	215	13.79	13.55	13.77	14.20
		108	54	13.50	13.68	13.76	14.20
		216	0	13.64	13.78	13.80	14.20
	DFT-s-OFDM 16QAM	1	1	13.48	13.46	13.50	14.20

	DFT-s-OFDM 64QAM	1	1	13.37	13.45	13.19	14.20
	DFT-s-OFDM 256QAM	1	1	13.77	13.85	13.73	14.20
	CP-OFDM QPSK	1	1	13.86	13.76	13.76	14.20
	CP-OFDM 16QAM	1	1	13.48	13.84	13.72	14.20
	CP-OFDM 64QAM	1	1	13.62	13.66	13.66	14.20
	CP-OFDM 256QAM	1	1	13.86	13.80	13.84	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				633000/3495	633332/3500	633666/3505	
90MHz	DFT-s-OFDM BPSK	1	1	13.73	13.59	13.57	14.20
		1	243	13.45	13.57	13.63	14.20
		120	60	13.64	13.76	13.70	14.20
		243	0	13.53	13.61	13.63	14.20
	DFT-s-OFDM QPSK	1	1	13.58	13.64	13.84	14.20
		1	243	13.75	13.69	13.65	14.20
		120	60	13.74	13.74	13.62	14.20
		243	0	13.60	13.66	13.72	14.20
	DFT-s-OFDM 16QAM	1	1	13.72	13.62	13.78	14.20
	DFT-s-OFDM 64QAM	1	1	13.39	13.55	13.39	14.20
	DFT-s-OFDM 256QAM	1	1	13.75	13.89	13.91	14.20
	CP-OFDM QPSK	1	1	13.58	13.76	13.68	14.20
	CP-OFDM 16QAM	1	1	13.78	13.74	13.66	14.20
	CP-OFDM 64QAM	1	1	13.66	13.54	13.50	14.20
	CP-OFDM 256QAM	1	1	13.86	13.70	13.60	14.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	633332/3500	/	
100MHz	DFT-s-OFDM BPSK	1	1	/	13.63	/	14.20
		1	271	/	13.53	/	14.20
		135	67	/	13.58	/	14.20
		270	0	/	13.57	/	14.20
	DFT-s-OFDM QPSK	1	1	/	13.70	/	14.20
		1	271	/	13.57	/	14.20
		135	67	/	13.60	/	14.20
		270	0	/	13.64	/	14.20
	DFT-s-OFDM 16QAM	1	1	/	13.64	/	14.20
	DFT-s-OFDM 64QAM	1	1	/	13.37	/	14.20

	DFT-s-OFDM 256QAM	1	1	/	13.77	/	14.20
	CP-OFDM QPSK	1	1	/	13.66	/	14.20
	CP-OFDM 16QAM	1	1	/	13.62	/	14.20
	CP-OFDM 64QAM	1	1	/	13.56	/	14.20
	CP-OFDM 256QAM	1	1	/	13.68	/	14.20

9.6 WLAN Mode

Wi-Fi 2.4GHz Receiver off& Hotspot on--Ant9 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	19.00	17.88
	6/2437	19.00	17.44
	11/2462	19.00	17.76
802.11g (6M)	1/2412	17.50	16.38
	6/2437	19.00	17.51
	11/2462	18.50	16.98
802.11n-HT20 (MCS0)	1/2412	17.00	15.54
	6/2437	19.00	17.75
	11/2462	18.50	17.09
802.11n-HT40 (MCS0)	3/2422	15.50	14.38
	6/2437	18.00	16.86
	9/2452	16.50	15.35
802.11ax VHT20 (MCS0)	1/2412	17.00	15.68
	6/2437	19.00	17.63
	11/2462	18.50	16.98
802.11ax VHT40 (MCS0)	3/2422	15.50	13.96
	6/2437	18.00	16.83
	9/2452	16.50	14.98

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz Receiver on--Ant9 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	18.50	17.60
	6/2437	18.50	17.14
	11/2462	18.50	17.17
802.11g (6M)	1/2412	17.50	16.36
	6/2437	18.50	16.93
	11/2462	18.50	16.98
802.11n-HT20 (MCS0)	1/2412	17.00	15.56
	6/2437	18.50	17.09
	11/2462	18.50	17.08
802.11n-HT40 (MCS0)	3/2422	15.50	14.37
	6/2437	18.00	16.87

	9/2452	16.50	15.38
802.11ax VHT20 (MCS0)	1/2412	17.00	15.66
	6/2437	18.50	17.13
	11/2462	18.50	17.06
802.11ax VHT40 (MCS0)	3/2422	15.50	13.93
	6/2437	18.00	16.81
	9/2452	16.50	14.96
Note: Initial test configuration is 802.11b mode.			

Wi-Fi 2.4GHz WWAN+ WLAN Receiver on--Ant9 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	15.00	14.06
	6/2437	15.00	13.61
	11/2462	15.00	13.66
802.11g (6M)	1/2412	15.00	13.76
	6/2437	15.00	13.72
	11/2462	15.00	13.69
802.11n-HT20 (MCS0)	1/2412	15.00	13.55
	6/2437	15.00	13.76
	11/2462	15.00	13.75
802.11n-HT40 (MCS0)	3/2422	15.00	13.86
	6/2437	15.00	13.95
	9/2452	15.00	13.98
802.11ax VHT20 (MCS0)	1/2412	15.00	14.02
	6/2437	15.00	13.97
	11/2462	15.00	13.72
802.11ax VHT40 (MCS0)	3/2422	15.00	13.68
	6/2437	15.00	13.83
	9/2452	15.00	13.55
Note: Initial test configuration is 802.11b mode.			

Wi-Fi 2.4GHz WWAN+ WLAN Receiver off--Ant9 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	18.00	16.36
	6/2437	18.00	16.15
	11/2462	18.00	16.28

802.11g (6M)	1/2412	17.50	15.96
	6/2437	18.00	16.05
	11/2462	18.00	16.07
802.11n-HT20 (MCS0)	1/2412	17.00	15.16
	6/2437	18.00	16.22
	11/2462	18.00	16.20
802.11n-HT40 (MCS0)	3/2422	15.50	13.97
	6/2437	18.00	16.47
	9/2452	16.50	14.98
802.11ax VHT20 (MCS0)	1/2412	17.00	15.26
	6/2437	18.00	16.30
	11/2462	18.00	16.24
802.11ax VHT40 (MCS0)	3/2422	15.50	13.53
	6/2437	18.00	16.41
	9/2452	16.50	14.56

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz Receiver off--Ant13 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	19.50	18.03
	6/2437	19.50	18.05
	11/2462	19.50	18.33
802.11g (6M)	1/2412	18.50	17.16
	6/2437	19.50	18.26
	11/2462	19.50	18.22
802.11n-HT20 (MCS0)	1/2412	18.00	16.12
	6/2437	19.50	18.05
	11/2462	19.50	18.10
802.11n-HT40 (MCS0)	3/2422	16.50	15.40
	6/2437	19.00	18.30
	9/2452	17.50	16.44
802.11ax VHT20 (MCS0)	1/2412	18.00	16.24
	6/2437	19.50	18.21
	11/2462	19.50	18.22
802.11ax VHT40 (MCS0)	3/2422	16.50	15.11
	6/2437	19.00	17.96
	9/2452	17.50	16.18

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz Receiver on--Ant13 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	19.00	17.67
	6/2437	19.00	17.76
	11/2462	19.00	17.95
802.11g (6M)	1/2412	18.50	17.16
	6/2437	19.00	17.71
	11/2462	19.00	17.73
802.11n-HT20 (MCS0)	1/2412	18.00	16.12
	6/2437	19.00	17.34
	11/2462	19.00	17.44
802.11n-HT40 (MCS0)	3/2422	16.50	15.40
	6/2437	19.00	17.90
	9/2452	17.50	16.44
802.11ax VHT20 (MCS0)	1/2412	18.00	16.24
	6/2437	19.00	17.54
	11/2462	19.00	17.64
802.11ax VHT40 (MCS0)	3/2422	16.50	15.11
	6/2437	19.00	17.92
	9/2452	17.50	16.18

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz Hotspot on--Ant13 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	20.00	18.68
	6/2437	20.00	18.82
	11/2462	20.00	18.83
802.11g (6M)	1/2412	18.50	17.16
	6/2437	20.00	18.72
	11/2462	19.50	18.39
802.11n-HT20 (MCS0)	1/2412	18.00	16.12
	6/2437	20.00	18.42
	11/2462	19.50	18.10
802.11n-HT40 (MCS0)	3/2422	16.50	15.40
	6/2437	19.00	18.30
	9/2452	17.50	16.44
	1/2412	18.00	16.24

802.11ax VHT20 (MCS0)	6/2437	20.00	18.27
	11/2462	19.50	18.22
802.11ax VHT40 (MCS0)	3/2422	16.50	15.11
	6/2437	19.00	17.96
	9/2452	17.50	16.18

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz WWAN+ WLAN Receiver on--Ant13 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	15.50	14.43
	6/2437	15.50	14.61
	11/2462	15.50	14.77
802.11g (6M)	1/2412	15.50	14.45
	6/2437	15.50	14.51
	11/2462	15.50	14.79
802.11n-HT20 (MCS0)	1/2412	15.50	14.09
	6/2437	15.50	14.29
	11/2462	15.50	14.32
802.11n-HT40 (MCS0)	3/2422	15.50	14.55
	6/2437	15.50	15.05
	9/2452	15.50	14.83
802.11ax VHT20 (MCS0)	1/2412	15.50	14.12
	6/2437	15.50	14.06
	11/2462	15.50	14.56
802.11ax VHT40 (MCS0)	3/2422	15.50	14.38
	6/2437	15.50	14.83
	9/2452	15.50	14.47

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz WWAN+ WLAN Receiver off--Ant13 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	17.50	16.27
	6/2437	17.50	16.09
	11/2462	17.50	16.10
802.11g (6M)	1/2412	17.50	16.03
	6/2437	17.50	16.27

	11/2462	17.50	16.49
802.11n-HT20 (MCS0)	1/2412	17.50	15.63
	6/2437	17.50	15.99
	11/2462	17.50	16.04
802.11n-HT40 (MCS0)	3/2422	17.50	16.25
	6/2437	17.50	16.55
	9/2452	17.50	16.39
802.11ax VHT20 (MCS0)	1/2412	17.50	15.86
	6/2437	17.50	15.62
	11/2462	17.50	16.12
802.11ax VHT40 (MCS0)	3/2422	16.50	15.98
	6/2437	17.50	16.49
	9/2452	17.50	16.03

Note: Initial test configuration is 802.11b mode.

Wi-Fi 5GHz (U-NII-1) Receiver off & Hotspot on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	16.00	15.33
	40/5200	16.00	15.32
	48/5240	16.00	15.02
802.11n-HT20 (MCS0)	36/5180	16.00	15.13
	40/5200	16.00	15.02
	48/5240	16.00	14.68
802.11n-HT40 (MCS0)	38/5190	16.00	15.90
	46/5230	16.00	15.65
802.11ac-VHT20 (MCS0)	36/5180	16.00	15.01
	40/5200	16.00	14.86
	48/5240	16.00	14.64
802.11ac-VHT40 (MCS0)	38/5190	16.00	15.85
	46/5230	16.00	15.64
802.11ac-VHT80 (MCS0)	42/5210	16.00	15.65
802.11ax-HE20 (MCS0)	36/5180	16.00	15.22
	40/5200	16.00	15.16
	48/5240	16.00	14.89
802.11ax-HE40 (MCS0)	38/5190	16.00	15.61
	46/5230	16.00	15.38

802.11ax-HE80 (MCS0)	42/5210	16.00	15.58
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-1) Receiver on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	14.50	13.83
	40/5200	14.50	13.76
	48/5240	14.50	13.46
802.11n-HT20 (MCS0)	36/5180	14.50	13.56
	40/5200	14.50	13.44
	48/5240	14.50	13.11
802.11n-HT40 (MCS0)	38/5190	14.50	14.24
	46/5230	14.50	14.25
802.11ac-VHT20 (MCS0)	36/5180	14.50	13.48
	40/5200	14.50	13.39
	48/5240	14.50	13.10
802.11ac-VHT40 (MCS0)	38/5190	14.50	14.26
	46/5230	14.50	14.16
802.11ac-VHT80 (MCS0)	42/5210	14.50	14.01
802.11ax-HE20 (MCS0)	36/5180	14.50	13.71
	40/5200	14.50	13.62
	48/5240	14.50	13.32
802.11ax-HE40 (MCS0)	38/5190	14.50	13.94
	46/5230	14.50	13.86
802.11ax-HE80 (MCS0)	42/5210	14.50	14.01

Note. Initial test configuration is 802.11ac-VHT80 mode.

Wi-Fi 5GHz (U-NII-1) WWAN+ WLAN Receiver on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	11.00	10.37
	40/5200	11.00	10.22
	48/5240	11.00	10.02
802.11n-HT20	36/5180	11.00	10.18

(MCS0)	40/5200	11.00	9.90
	48/5240	11.00	9.73
802.11n-HT40 (MCS0)	38/5190	11.00	10.92
	46/5230	11.00	10.67
802.11ac-VHT20 (MCS0)	36/5180	11.00	9.92
	40/5200	11.00	9.95
	48/5240	11.00	9.78
802.11ac-VHT40 (MCS0)	38/5190	11.00	10.90
	46/5230	11.00	10.54
802.11ac-VHT80 (MCS0)	42/5210	11.00	10.63
802.11ax-HE20 (MCS0)	36/5180	11.00	10.37
	40/5200	11.00	10.18
	48/5240	11.00	9.78
802.11ax-HE40 (MCS0)	38/5190	11.00	10.36
	46/5230	11.00	10.34
802.11ax-HE80 (MCS0)	42/5210	11.00	10.55
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-1) Receiver off--Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	17.00	16.22
	40/5200	17.00	16.07
	48/5240	17.50	16.39
802.11n-HT20 (MCS0)	36/5180	16.50	15.28
	40/5200	17.00	15.67
	48/5240	17.50	15.94
802.11n-HT40 (MCS0)	38/5190	15.00	14.54
	46/5230	17.00	16.47
802.11ac-VHT20 (MCS0)	36/5180	16.50	15.52
	40/5200	17.00	15.89
	48/5240	17.50	16.22
802.11ac-VHT40 (MCS0)	38/5190	15.00	14.21
	46/5230	17.00	16.14
802.11ac-VHT80 (MCS0)	42/5210	13.50	12.96
802.11ax-HE20 (MCS0)	36/5180	16.50	15.65
	40/5200	17.00	15.95

	48/5240	17.50	16.36
802.11ax-HE40 (MCS0)	38/5190	15.00	14.32
	46/5230	17.00	16.26
802.11ax-HE80 (MCS0)	42/5210	13.50	12.87

Note. Initial test configuration is 802.11a mode.

Wi-Fi 5GHz (U-NII-1) Receiver on--Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	15.00	14.21
	40/5200	15.00	14.08
	48/5240	15.50	14.38
802.11n-HT20 (MCS0)	36/5180	15.00	13.78
	40/5200	15.00	13.72
	48/5240	15.50	14.01
802.11n-HT40 (MCS0)	38/5190	15.00	14.52
	46/5230	15.00	14.32
802.11ac-VHT20 (MCS0)	36/5180	15.00	13.99
	40/5200	15.00	13.89
	48/5240	15.50	14.26
802.11ac-VHT40 (MCS0)	38/5190	15.00	14.18
	46/5230	15.00	14.10
802.11ac-VHT80 (MCS0)	42/5210	13.50	12.95
802.11ax-HE20 (MCS0)	36/5180	15.00	14.17
	40/5200	15.00	14.01
	48/5240	15.50	14.36
802.11ax-HE40 (MCS0)	38/5190	15.00	14.25
	46/5230	15.00	14.11
802.11ax-HE80 (MCS0)	42/5210	13.50	12.75

Note. Initial test configuration is 802.11a mode.

Wi-Fi 5GHz (U-NII-1) Hotspot on& WWAN+ WLAN Receiver off-- Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.

802.11a (6M)	36/5180	16.50	15.65
	40/5200	16.50	15.56
	48/5240	17.00	15.89
802.11n-HT20 (MCS0)	36/5180	16.50	15.25
	40/5200	16.50	15.04
	48/5240	17.00	15.47
802.11n-HT40 (MCS0)	38/5190	15.00	14.56
	46/5230	16.50	16.03
802.11ac-VHT20 (MCS0)	36/5180	16.50	15.48
	40/5200	16.50	15.21
	48/5240	17.00	15.76
802.11ac-VHT40 (MCS0)	38/5190	15.00	14.17
	46/5230	16.50	15.71
802.11ac-VHT80 (MCS0)	42/5210	13.50	12.91
802.11ax-HE20 (MCS0)	36/5180	16.50	15.57
	40/5200	16.50	15.41
	48/5240	17.00	15.89
802.11ax-HE40 (MCS0)	38/5190	15.00	14.38
	46/5230	16.50	15.84
802.11ax-HE80 (MCS0)	42/5210	13.50	12.81
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-2A) Receiver off& Hotspot on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	16.00	14.86
	56/5280	16.00	14.77
	64/5320	16.00	14.72
802.11n-HT20 (MCS0)	52/5260	16.00	14.53
	56/5280	16.00	14.44
	64/5320	16.00	14.35
802.11n-HT40 (MCS0)	54/5270	16.00	15.28
	62/5310	16.00	15.22
802.11ac-VHT20 (MCS0)	52/5260	16.00	14.61
	56/5280	16.00	14.42
	64/5320	16.00	14.36

802.11ac-VHT40 (MCS0)	54/5270	16.00	15.28
	62/5310	16.00	15.23
802.11ac-VHT80 (MCS0)	58/5290	16.00	15.22
802.11ax-HE20 (MCS0)	52/5260	16.00	14.75
	56/5280	16.00	14.67
	64/5320	16.00	14.60
802.11ax-HE40 (MCS0)	54/5270	16.00	14.96
	62/5310	16.00	14.85
802.11ax-HE80 (MCS0)	58/5290	16.00	15.11
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2A) Receiver on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	14.50	13.34
	56/5280	14.50	13.23
	64/5320	14.50	13.11
802.11n-HT20 (MCS0)	52/5260	14.50	12.98
	56/5280	14.50	12.85
	64/5320	14.50	12.74
802.11n-HT40 (MCS0)	54/5270	14.50	13.69
	62/5310	14.50	13.59
802.11ac-VHT20 (MCS0)	52/5260	14.50	12.96
	56/5280	14.50	12.89
	64/5320	14.50	12.76
802.11ac-VHT40 (MCS0)	54/5270	14.50	13.63
	62/5310	14.50	13.61
802.11ac-VHT80 (MCS0)	58/5290	14.50	13.62
802.11ax-HE20 (MCS0)	52/5260	14.50	13.21
	56/5280	14.50	13.12
	64/5320	14.50	12.98
802.11ax-HE40 (MCS0)	54/5270	14.50	13.35
	62/5310	14.50	13.31
802.11ax-HE80 (MCS0)	58/5290	14.50	13.51
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2A) WWAN+ WLAN Receiver on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	11.00	10.04
	56/5280	11.00	9.81
	64/5320	11.00	9.85
802.11n-HT20 (MCS0)	52/5260	11.00	9.78
	56/5280	11.00	9.61
	64/5320	11.00	9.58
802.11n-HT40 (MCS0)	54/5270	11.00	10.51
	62/5310	11.00	10.17
802.11ac-VHT20 (MCS0)	52/5260	11.00	9.78
	56/5280	11.00	9.49
	64/5320	11.00	9.34
802.11ac-VHT40 (MCS0)	54/5270	11.00	10.37
	62/5310	11.00	10.39
802.11ac-VHT80 (MCS0)	58/5290	11.00	10.38
802.11ax-HE20 (MCS0)	52/5260	11.00	9.91
	56/5280	11.00	9.82
	64/5320	11.00	9.58
802.11ax-HE40 (MCS0)	54/5270	11.00	10.11
	62/5310	11.00	9.87
802.11ax-HE80 (MCS0)	58/5290	11.00	10.23
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2A) Receiver off--Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	17.50	16.06
	56/5280	17.50	15.97
	64/5320	17.00	15.35
802.11n-HT20 (MCS0)	52/5260	17.50	15.64
	56/5280	17.50	15.71
	64/5320	17.00	15.01
802.11n-HT40	54/5270	17.50	15.89

(MCS0)	62/5310	15.50	13.61
802.11ac-VHT20 (MCS0)	52/5260	17.50	15.94
	56/5280	17.50	15.88
	64/5320	17.00	15.34
802.11ac-VHT40 (MCS0)	54/5270	17.50	16.01
	62/5310	15.50	14.13
802.11ac-VHT80 (MCS0)	58/5290	15.00	14.01
802.11ax-HE20 (MCS0)	52/5260	17.50	16.02
	56/5280	17.50	16.03
	64/5320	17.00	15.48
802.11ax-HE40 (MCS0)	54/5270	17.50	15.87
	62/5310	15.50	13.78
802.11ax-HE80 (MCS0)	58/5290	15.00	13.86

Note. Initial test configuration is 802.11nHT40 mode.

Wi-Fi 5GHz (U-NII-2A) Receiver on--Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	15.50	14.21
	56/5280	15.50	14.08
	64/5320	15.50	13.89
802.11n-HT20 (MCS0)	52/5260	15.50	13.82
	56/5280	15.50	13.61
	64/5320	15.50	13.55
802.11n-HT40 (MCS0)	54/5270	15.50	14.10
	62/5310	15.50	13.54
802.11ac-VHT20 (MCS0)	52/5260	15.50	14.08
	56/5280	15.50	14.01
	64/5320	15.50	13.78
802.11ac-VHT40 (MCS0)	54/5270	15.50	14.02
	62/5310	15.50	14.03
802.11ac-VHT80 (MCS0)	58/5290	15.00	13.97
802.11ax-HE20 (MCS0)	52/5260	15.50	14.06
	56/5280	15.50	14.12
	64/5320	15.50	13.88
802.11ax-HE40 (MCS0)	54/5270	15.50	13.87
	62/5310	15.50	13.58

802.11ax-HE80 (MCS0)	58/5290	15.00	13.84
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-2A) Hotspot on& WWAN+ WLAN Receiver off-- Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	17.00	15.63
	56/5280	17.00	15.51
	64/5320	17.00	15.37
802.11n-HT20 (MCS0)	52/5260	17.00	15.26
	56/5280	17.00	15.21
	64/5320	17.00	15.08
802.11n-HT40 (MCS0)	54/5270	17.00	15.96
	62/5310	15.50	13.68
802.11ac-VHT20 (MCS0)	52/5260	17.00	15.47
	56/5280	17.00	15.41
	64/5320	17.00	15.27
802.11ac-VHT40 (MCS0)	54/5270	17.00	15.68
	62/5310	15.50	14.08
802.11ac-VHT80 (MCS0)	58/5290	15.00	13.98
802.11ax-HE20 (MCS0)	52/5260	17.00	15.58
	56/5280	17.00	15.45
	64/5320	17.00	15.37
802.11ax-HE40 (MCS0)	54/5270	17.00	15.71
	62/5310	15.50	13.52
802.11ax-HE80 (MCS0)	58/5290	15.00	13.78
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-2C) Receiver off& Hotspot on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	16.00	15.03
	118/5580	16.00	15.04

	140/5700	16.00	15.27
802.11n-HT20 (MCS0)	100/5500	16.00	14.66
	118/5580	16.00	14.63
	140/5700	16.00	14.85
802.11n-HT40 (MCS0)	102/5510	16.00	15.42
	118/5590	16.00	15.50
	134/5670	16.00	15.48
802.11ac-VHT20 (MCS0)	100/5500	16.00	14.62
	118/5580	16.00	14.63
	140/5700	16.00	14.89
802.11ac-VHT40 (MCS0)	102/5510	16.00	15.35
	118/5590	16.00	15.46
	134/5670	16.00	15.49
802.11ac-VHT80 (MCS0)	106/5530	16.00	15.42
	122/5610	16.00	15.53
802.11ax-HE20 (MCS0)	100/5500	16.00	14.89
	118/5580	16.00	14.91
	140/5700	16.00	15.10
802.11ax-HE40 (MCS0)	102/5510	16.00	15.06
	118/5590	16.00	15.20
	134/5670	16.00	15.14
802.11ax-HE80 (MCS0)	106/5530	16.00	15.34
	122/5610	16.00	15.52
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2C) Receiver on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	14.50	13.52
	118/5580	14.50	13.43
	140/5700	14.50	13.65
802.11n-HT20 (MCS0)	100/5500	14.50	13.19
	118/5580	14.50	13.10
	140/5700	14.50	13.34
802.11n-HT40 (MCS0)	102/5510	14.50	13.84
	118/5590	14.50	13.89
	134/5670	14.50	13.88
802.11ac-VHT20 (MCS0)	100/5500	14.50	13.16
	118/5580	14.50	13.10

	140/5700	14.50	13.32
802.11ac-VHT40 (MCS0)	102/5510	14.50	13.78
	118/5590	14.50	13.84
	134/5670	14.50	13.91
802.11ac-VHT80 (MCS0)	106/5530	14.50	13.81
	122/5610	14.50	13.97
802.11ax-HE20 (MCS0)	100/5500	14.50	13.42
	118/5580	14.50	13.35
	140/5700	14.50	13.58
802.11ax-HE40 (MCS0)	102/5510	14.50	13.45
	118/5590	14.50	13.60
	134/5670	14.50	13.63
802.11ax-HE80 (MCS0)	106/5530	14.50	13.74
	122/5610	14.50	13.89
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2C) WWAN+ WLAN Receiver on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	11.00	9.31
	118/5580	11.00	9.52
	140/5700	11.00	9.56
802.11n-HT20 (MCS0)	100/5500	11.00	9.40
	118/5580	11.00	9.09
	140/5700	11.00	9.25
802.11n-HT40 (MCS0)	102/5510	11.00	9.93
	118/5590	11.00	9.78
	134/5670	11.00	9.63
802.11ac-VHT20 (MCS0)	100/5500	11.00	9.21
	118/5580	11.00	9.11
	140/5700	11.00	9.21
802.11ac-VHT40 (MCS0)	102/5510	11.00	9.79
	118/5590	11.00	9.55
	134/5670	11.00	9.92
802.11ac-VHT80 (MCS0)	106/5530	11.00	9.88
	122/5610	11.00	10.04
802.11ax-HE20 (MCS0)	100/5500	11.00	9.39
	118/5580	11.00	9.44

	140/5700	11.00	9.31
802.11ax-HE40 (MCS0)	102/5510	11.00	9.16
	118/5590	11.00	9.65
	134/5670	11.00	9.58
802.11ax-HE80 (MCS0)	106/5530	11.00	9.55
	122/5610	11.00	9.90
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-2C) Receiver off--Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	17.50	15.74
	118/5580	17.00	15.18
	140/5700	14.50	12.75
802.11n-HT20 (MCS0)	100/5500	17.50	15.77
	118/5580	17.00	15.03
	140/5700	14.50	12.79
802.11n-HT40 (MCS0)	102/5510	15.50	14.17
	118/5590	17.00	15.47
	134/5670	15.50	13.80
802.11ac-VHT20 (MCS0)	100/5500	17.50	15.60
	118/5580	17.00	15.38
	140/5700	14.50	12.68
802.11ac-VHT40 (MCS0)	102/5510	15.50	13.91
	118/5590	17.00	15.21
	134/5670	15.50	13.56
802.11ac-VHT80 (MCS0)	106/5530	15.50	13.99
	122/5610	16.50	14.91
802.11ax-HE20 (MCS0)	100/5500	17.50	15.68
	118/5580	17.00	15.27
	140/5700	14.50	13.36
802.11ax-HE40 (MCS0)	102/5510	15.50	13.94
	118/5590	17.00	15.52
	134/5670	15.50	13.53
802.11ax-HE80 (MCS0)	106/5530	15.50	13.97
	122/5610	16.50	14.65
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-2C) Receiver on--Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	15.50	13.87
	118/5580	15.00	13.06
	140/5700	14.00	12.02
802.11n-HT20 (MCS0)	100/5500	15.50	13.68
	118/5580	15.00	13.09
	140/5700	14.00	12.11
802.11n-HT40 (MCS0)	102/5510	15.50	14.17
	118/5590	15.00	13.52
	134/5670	14.00	12.21
802.11ac-VHT20 (MCS0)	100/5500	15.50	13.69
	118/5580	15.00	13.18
	140/5700	14.00	12.12
802.11ac-VHT40 (MCS0)	102/5510	15.50	13.97
	118/5590	15.00	13.21
	134/5670	14.00	12.27
802.11ac-VHT80 (MCS0)	106/5530	15.50	13.95
	122/5610	14.50	12.90
802.11ax-HE20 (MCS0)	100/5500	15.50	13.74
	118/5580	15.00	13.38
	140/5700	14.00	12.15
802.11ax-HE40 (MCS0)	102/5510	15.50	13.91
	118/5590	15.00	13.42
	134/5670	14.00	12.35
802.11ax-HE80 (MCS0)	106/5530	15.50	13.76
	122/5610	14.50	12.80
Note. Initial test configuration is 802.11nHT40 mode.			

Wi-Fi 5GHz (U-NII-2C) Hotspot on& WWAN+ WLAN Receiver off-- Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	17.00	15.25
	118/5580	16.50	14.51
	140/5700	14.50	12.73

802.11n-HT20 (MCS0)	100/5500	17.00	15.21
	118/5580	16.50	14.53
	140/5700	14.50	12.66
802.11n-HT40 (MCS0)	102/5510	15.50	14.14
	118/5590	16.50	15.09
	134/5670	15.50	13.79
802.11ac-VHT20 (MCS0)	100/5500	17.00	15.09
	118/5580	16.50	14.57
	140/5700	14.50	12.62
802.11ac-VHT40 (MCS0)	102/5510	15.50	13.94
	118/5590	16.50	14.75
	134/5670	15.50	13.88
802.11ac-VHT80 (MCS0)	106/5530	15.50	13.87
	122/5610	16.00	14.58
802.11ax-HE20 (MCS0)	100/5500	17.00	15.18
	118/5580	16.50	14.78
	140/5700	14.50	12.73
802.11ax-HE40 (MCS0)	102/5510	15.50	13.83
	118/5590	16.50	14.76
	134/5670	15.50	13.55
802.11ax-HE80 (MCS0)	106/5530	15.50	13.81
	122/5610	16.00	14.42
Note. Initial test configuration is 802.11a mode.			

Wi-Fi 5GHz (U-NII-3) Receiver off & Hotspot on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	16.00	15.37
	157/5785	16.00	15.54
	165/5825	16.00	15.64
802.11n-HT20 (MCS0)	149/5745	16.00	15.09
	157/5785	16.00	15.19
	165/5825	16.00	15.35
802.11n-HT40 (MCS0)	151/5755	16.00	15.82
	159/5795	16.00	15.86
802.11ac-VHT20 (MCS0)	149/5745	16.00	15.10
	157/5785	16.00	15.24
	165/5825	16.00	15.36

802.11ac-VHT40 (MCS0)	151/5755	16.00	15.73
	159/5795	16.00	15.82
802.11ac-VHT80 (MCS0)	155/5775	16.00	15.86
802.11ax-HE20 (MCS0)	149/5745	16.00	15.29
	157/5785	16.00	15.42
	165/5825	16.00	15.44
802.11ax-HE40 (MCS0)	151/5755	16.00	15.52
	159/5795	16.00	15.58
802.11ax-HE80 (MCS0)	155/5775	16.00	15.79
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-3) Receiver on--Ant8 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	14.50	13.89
	157/5785	14.50	14.07
	165/5825	14.50	14.22
802.11n-HT20 (MCS0)	149/5745	14.50	13.53
	157/5785	14.50	13.68
	165/5825	14.50	13.84
802.11n-HT40 (MCS0)	151/5755	14.50	14.41
	159/5795	14.50	14.45
802.11ac-VHT20 (MCS0)	149/5745	14.50	13.52
	157/5785	14.50	13.64
	165/5825	14.50	13.85
802.11ac-VHT40 (MCS0)	151/5755	14.50	14.36
	159/5795	14.50	14.30
802.11ac-VHT80 (MCS0)	155/5775	14.50	14.30
802.11ax-HE20 (MCS0)	149/5745	14.50	13.76
	157/5785	14.50	13.93
	165/5825	14.50	14.10
802.11ax-HE40 (MCS0)	151/5755	14.50	14.12
	159/5795	14.50	14.17
802.11ax-HE80 (MCS0)	155/5775	14.50	14.19
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-3) WWAN+ WLAN Receiver on--Ant8	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	149/5745	11.00	9.99
	157/5785	11.00	10.07
	165/5825	11.00	10.38
802.11n-HT20 (MCS0)	149/5745	11.00	9.73
	157/5785	11.00	9.76
	165/5825	11.00	10.00
802.11n-HT40 (MCS0)	151/5755	11.00	10.51
	159/5795	11.00	10.59
802.11ac-VHT20 (MCS0)	149/5745	11.00	9.64
	157/5785	11.00	9.78
	165/5825	11.00	9.97
802.11ac-VHT40 (MCS0)	151/5755	11.00	10.54
	159/5795	11.00	10.48
802.11ac-VHT80 (MCS0)	155/5775	11.00	10.44
802.11ax-HE20 (MCS0)	149/5745	11.00	9.84
	157/5785	11.00	10.13
	165/5825	11.00	10.34
802.11ax-HE40 (MCS0)	151/5755	11.00	10.18
	159/5795	11.00	10.35
802.11ax-HE80 (MCS0)	155/5775	11.00	10.27
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-3) Receiver off--Ant10	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	149/5745	16.00	14.33
	157/5785	16.00	14.35
	165/5825	16.00	14.24
802.11n-HT20 (MCS0)	149/5745	16.00	14.09
	157/5785	16.00	14.02
	165/5825	15.50	13.58
802.11n-HT40 (MCS0)	151/5755	16.00	14.33
	159/5795	15.50	13.57

802.11ac-VHT20 (MCS0)	149/5745	16.00	14.18
	157/5785	16.00	14.21
	165/5825	15.50	13.78
802.11ac-VHT40 (MCS0)	151/5755	16.00	14.01
	159/5795	15.50	13.75
802.11ac-VHT80 (MCS0)	155/5775	14.50	12.64
802.11ax-HE20 (MCS0)	149/5745	16.00	14.28
	157/5785	16.00	14.25
	165/5825	15.50	13.79
802.11ax-HE40 (MCS0)	151/5755	16.00	14.13
	159/5795	15.50	13.81
802.11ax-HE80 (MCS0)	155/5775	14.50	12.63
Note. Initial test configuration is 802.11nHT40 mode.			

Wi-Fi 5GHz (U-NII-3) Receiver on--Ant10 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	14.00	12.29
	157/5785	14.00	12.34
	165/5825	14.00	12.31
802.11n-HT20 (MCS0)	149/5745	14.00	12.14
	157/5785	14.00	12.12
	165/5825	14.00	12.17
802.11n-HT40 (MCS0)	151/5755	14.00	12.35
	159/5795	14.00	12.25
802.11ac-VHT20 (MCS0)	149/5745	14.00	12.15
	157/5785	14.00	12.05
	165/5825	14.00	12.18
802.11ac-VHT40 (MCS0)	151/5755	14.00	12.20
	159/5795	14.00	12.25
802.11ac-VHT80 (MCS0)	155/5775	14.50	13.01
802.11ax-HE20 (MCS0)	149/5745	14.00	12.25
	157/5785	14.00	12.29
	165/5825	14.00	12.18
802.11ax-HE40 (MCS0)	151/5755	14.00	12.12
	159/5795	14.00	12.21

802.11ax-HE80 (MCS0)	155/5775	14.50	12.56
Note. Initial test configuration is 802.11ac-VHT80 mode.			

Wi-Fi 5GHz (U-NII-3) Hotspot on& WWAN+ WLAN Receiver off-- Ant10	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
Mode			
802.11a (6M)	149/5745	15.50	13.85
	157/5785	15.50	13.52
	165/5825	15.50	13.55
802.11n-HT20 (MCS0)	149/5745	15.50	13.62
	157/5785	15.50	13.51
	165/5825	15.50	13.56
802.11n-HT40 (MCS0)	151/5755	15.50	13.78
	159/5795	15.50	13.65
802.11ac-VHT20 (MCS0)	149/5745	15.50	13.70
	157/5785	15.50	13.61
	165/5825	15.50	13.72
802.11ac-VHT40 (MCS0)	151/5755	15.50	13.54
	159/5795	15.50	13.63
802.11ac-VHT80 (MCS0)	155/5775	14.50	12.58
802.11ax-HE20 (MCS0)	149/5745	15.50	13.78
	157/5785	15.50	13.70
	165/5825	15.50	13.77
802.11ax-HE40 (MCS0)	151/5755	15.50	13.57
	159/5795	15.50	13.79
802.11ax-HE80 (MCS0)	155/5775	14.50	12.90
Note. Initial test configuration is 802.11nHT40 mode.			

Wi-Fi 2.4GHz Receiver off& Hotspot on--Ant9	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	242	61	15.00	13.32
	6/2437		61	19.00	17.11
	11/2462		61	19.00	17.06
			Maximum Output Power (dBm)		

Wi-Fi 2.4GHz Receiver on--Ant9	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	242	61	18.50	16.55
	6/2437		61	18.50	16.72
	11/2462		61	18.50	16.70
Wi-Fi 2.4GHz Receiver off--Ant13	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	242	61	16.00	14.39
	6/2437		61	19.50	18.02
	11/2462		61	19.50	17.99
Wi-Fi 2.4GHz Receiver on--Ant13	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	242	61	16.00	14.39
	6/2437		61	19.00	17.55
	11/2462		61	19.00	17.60
Wi-Fi 2.4GHz Hotspot on--Ant13	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	242	61	16.00	14.39
	6/2437		61	20.00	18.60
	11/2462		61	20.00	18.49

Wi-Fi 2.4GHz Receiver off& Hotspot on--Ant9	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	26	0	10.00	8.88
	6/2437		4	10.00	8.74
	11/2462		8	10.00	9.74
11ax_HE20_er_Tone Mcs0	1/2412	52	37	13.00	11.39
	6/2437		38	13.00	11.43
	11/2462		40	13.00	12.40
11ax_HE20_er_Tone Mcs0	1/2412	106	53	14.50	13.14
	6/2437		53	16.00	14.10
	11/2462		54	16.00	14.89
11ax_HE20_er_Tone Mcs0	1/2412	242	61	15.00	14.04
	6/2437		61	19.00	17.68
	11/2462		61	19.00	18.01
	3/2422	484	65	15.00	13.74

11ax_HE40_er_Tone Mcs0	6/2437		65	18.50	17.27
	9/2452		65	18.50	17.19
Wi-Fi 2.4GHz Receiver on--Ant9	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	26	0	10.00	8.88
	6/2437		4	10.00	8.74
	11/2462		8	10.00	9.74
11ax_HE20_er_Tone Mcs0	1/2412	52	37	13.00	11.39
	6/2437		38	13.00	11.43
	11/2462		40	13.00	12.40
11ax_HE20_er_Tone Mcs0	1/2412	106	53	14.50	13.14
	6/2437		53	16.00	14.10
	11/2462		54	16.00	14.89
11ax_HE20_er_Tone Mcs0	1/2412	242	61	15.00	14.04
	6/2437		61	18.50	17.14
	11/2462		61	18.50	17.57
11ax_HE40_er_Tone Mcs0	3/2422	484	65	15.00	13.74
	6/2437		65	18.50	17.27
	9/2452		65	18.50	17.19
Wi-Fi 2.4GHz Receiver off--Ant13	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	26	0	11.00	9.11
	6/2437		4	11.00	9.58
	11/2462		8	11.00	10.00
11ax_HE20_er_Tone Mcs0	1/2412	52	37	14.00	12.06
	6/2437		38	14.00	12.57
	11/2462		40	14.00	13.21
11ax_HE20_er_Tone Mcs0	1/2412	106	53	15.50	14.11
	6/2437		53	17.00	15.58
	11/2462		54	17.00	16.01
11ax_HE20_er_Tone Mcs0	1/2412	242	61	16.00	14.06
	6/2437		61	19.50	18.33
	11/2462		61	19.50	18.32
11ax_HE40_er_Tone Mcs0	3/2422	484	65	16.00	14.06
	6/2437		65	19.50	18.50
	9/2452		65	19.50	18.23

Wi-Fi 2.4GHz Receiver on--Ant13	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	26	0	11.00	9.11
	6/2437		4	11.00	9.58
	11/2462		8	11.00	10.00
11ax_HE20_er_Tone Mcs0	1/2412	52	37	14.00	12.06
	6/2437		38	14.00	12.57
	11/2462		40	14.00	13.21
11ax_HE20_er_Tone Mcs0	1/2412	106	53	15.50	14.11
	6/2437		53	17.00	15.58
	11/2462		54	17.00	16.01
11ax_HE20_er_Tone Mcs0	1/2412	242	61	16.00	14.06
	6/2437		61	19.00	17.50
	11/2462		61	19.00	17.85
11ax_HE40_er_Tone Mcs0	3/2422	484	65	16.00	14.06
	6/2437		65	19.00	17.74
	9/2452		65	19.00	17.72
Wi-Fi 2.4GHz Hotspot on--Ant13	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	1/2412	26	0	11.00	9.11
	6/2437		4	11.00	9.58
	11/2462		8	11.00	10.00
11ax_HE20_er_Tone Mcs0	1/2412	52	37	14.00	12.06
	6/2437		38	14.00	12.57
	11/2462		40	14.00	13.21
11ax_HE20_er_Tone Mcs0	1/2412	106	53	15.50	14.11
	6/2437		53	17.00	15.58
	11/2462		54	17.00	16.01
11ax_HE20_er_Tone Mcs0	1/2412	242	61	16.00	14.06
	6/2437		61	20.00	18.66
	11/2462		61	20.00	18.87
11ax_HE40_er_Tone Mcs0	3/2422	484	65	16.00	14.06
	6/2437		65	19.50	18.50
	9/2452		65	19.50	18.23

Maximum Output Power (dBm)					
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Wi-Fi 5GHz (U-NII-1) Receiver off--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	242	61	13.00	12.53
	40/5200		61	16.00	15.26
	48/5240		61	16.00	15.33
Wi-Fi 5GHz (U-NII-1) Receiver on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	242	61	14.50	13.92
	40/5200		61	14.50	13.88
	48/5240		61	14.50	14.06
Wi-Fi 5GHz (U-NII-1) Hotspot on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	242	61	15.00	14.26
	40/5200		61	15.00	14.60
	48/5240		61	15.00	14.43
Wi-Fi 5GHz (U-NII-1) Receiver off--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	242	61	12.00	10.70
	40/5200		61	17.00	15.62
	48/5240		61	17.50	15.78
Wi-Fi 5GHz (U-NII-1) Receiver on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	242	61	15.00	13.52
	40/5200		61	15.00	13.43
	48/5240		61	15.00	13.40
Wi-Fi 5GHz (U-NII-1) Hotspot on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_er_Tone Mcs0	36/5180	242	61	15.50	13.91
	40/5200		61	15.50	13.88
	48/5240		61	16.00	14.65
Wi-Fi 5GHz (U-NII-2A) Receiver off--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	242	61	16.00	15.10
	60/5300		61	16.00	15.26
	64/5320		61	16.00	15.30
			Maximum Output Power (dBm)		

Wi-Fi 5GHz (U-NII-2A) Receiver on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	242	61	14.50	13.75
	60/5300		61	14.50	13.62
	64/5320		61	14.50	13.80
Wi-Fi 5GHz (U-NII-2A) Hotspot on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	242	61	15.00	14.71
	60/5300		61	15.00	14.60
	64/5320		61	15.00	14.49
Wi-Fi 5GHz (U-NII-2A) Receiver off--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	242	61	17.50	16.38
	60/5300		61	17.50	16.25
	64/5320		61	17.50	16.39
Wi-Fi 5GHz (U-NII-2A) Receiver on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	242	61	15.00	13.72
	60/5300		61	15.00	13.80
	64/5320		61	15.00	13.90
Wi-Fi 5GHz (U-NII-2A) Hotspot on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_er_Tone Mcs0	52/5260	242	61	16.00	14.60
	60/5300		61	16.00	14.84
	64/5320		61	16.00	14.77
Wi-Fi 5GHz (U-NII-2C) Receiver off--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	242	61	14.50	13.98
	118/5580		61	16.00	15.60
	140/5700		61	16.00	15.29
Wi-Fi 5GHz (U-NII-2C) Receiver on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	242	61	14.50	13.77
	118/5580		61	14.50	13.90
	140/5700		61	14.50	13.68
			Maximum Output Power (dBm)		

Wi-Fi 5GHz (U-NII-2C) Hotspot on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	242	61	15.00	14.55
	118/5580		61	15.00	14.39
	140/5700		61	15.00	14.49
Wi-Fi 5GHz (U-NII-2C) Receiver off--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	242	61	14.00	12.41
	118/5580		61	17.00	15.25
	140/5700		61	16.00	15.25
Wi-Fi 5GHz (U-NII-2C) Receiver on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	242	61	15.00	13.41
	118/5580		61	15.00	13.11
	140/5700		61	14.00	13.60
Wi-Fi 5GHz (U-NII-2C) Hotspot on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_er_Tone Mcs0	100/5500	242	61	16.00	14.72
	118/5580		61	16.00	14.32
	140/5700		61	14.50	13.92
Wi-Fi 5GHz (U-NII-3) Receiver off--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	242	61	13.00	12.42
	157/5785		61	13.00	12.33
	165/5825		61	13.00	12.19
Wi-Fi 5GHz (U-NII-3) Receiver on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	242	61	14.50	13.62
	157/5785		61	14.50	13.85
	165/5825		61	14.50	13.92
Wi-Fi 5GHz (U-NII-3) Hotspot on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	242	61	15.00	14.33
	157/5785		61	15.00	14.52
	165/5825		61	15.00	14.38
			Maximum Output Power (dBm)		

Wi-Fi 5GHz (U-NII-3) Receiver off--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	242	61	11.00	10.38
	157/5785		61	11.00	10.24
	165/5825		61	11.00	10.47
Wi-Fi 5GHz (U-NII-3) Receiver on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	242	61	14.00	13.55
	157/5785		61	14.00	13.28
	165/5825		61	14.00	13.29
Wi-Fi 5GHz (U-NII-3) Hotspot on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_er_Tone Mcs0	149/5745	242	61	14.50	13.88
	157/5785		61	14.50	13.92
	165/5825		61	14.50	14.03

Wi-Fi 5GHz (U-NII-1) Receiver off& Hotspot on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	26	0	9.50	8.90
	40/5200		4	9.50	8.41
	48/5240		8	9.50	8.80
11ax_HE20_er_Tone Mcs0	36/5180	52	37	12.00	11.35
	40/5200		38	12.00	11.23
	48/5240		40	12.00	11.21
11ax_HE20_er_Tone Mcs0	36/5180	106	53	15.00	14.42
	40/5200		53	15.00	14.37
	48/5240		54	15.00	14.28
11ax_HE20_er_Tone Mcs0	36/5180	242	61	16.00	15.42
	40/5200		61	16.00	15.42
	48/5240		61	16.00	15.36
11ax_HE40_er_Tone Mcs0	38/5190	484	65	12.00	11.40
	46/5230		65	16.00	15.75
11ax_HE80_er_Tone Mcs0	42/5210	996	67	11.00	10.54
Maximum Output Power (dBm)					

Wi-Fi 5GHz (U-NII-1) Receiver on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	26	0	9.50	8.90
	40/5200		4	9.50	8.41
	48/5240		8	9.50	8.80
11ax_HE20_er_Tone Mcs0	36/5180	52	37	12.00	11.35
	40/5200		38	12.00	11.23
	48/5240		40	12.00	11.21
11ax_HE20_er_Tone Mcs0	36/5180	106	53	14.50	14.02
	40/5200		53	14.50	13.97
	48/5240		54	14.50	13.90
11ax_HE20_er_Tone Mcs0	36/5180	242	61	14.50	13.92
	40/5200		61	14.50	13.84
	48/5240		61	14.50	13.92
11ax_HE40_er_Tone Mcs0	38/5190	484	65	14.50	13.84
	46/5230		65	14.50	14.13
11ax_HE80_er_Tone Mcs0	42/5210	996	67	14.50	13.98
Wi-Fi 5GHz (U-NII-1) Receiver on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	26	0	8.50	7.74
	40/5200		4	8.50	7.22
	48/5240		8	9.00	7.45
11ax_HE20_er_Tone Mcs0	36/5180	52	37	11.00	10.41
	40/5200		38	11.00	10.06
	48/5240		40	11.50	9.76
11ax_HE20_er_Tone Mcs0	36/5180	106	53	14.00	13.62
	40/5200		53	14.00	13.17
	48/5240		54	14.50	12.98
11ax_HE20_er_Tone Mcs0	36/5180	242	61	12.00	11.48
	40/5200		61	15.00	14.32
	48/5240		61	15.50	13.85
11ax_HE40_er_Tone Mcs0	38/5190	484	65	11.00	10.20
	46/5230		65	15.00	14.19
11ax_HE80_er_Tone Mcs0	42/5210	996	67	10.00	9.53
Maximum Output Power (dBm)					

Wi-Fi 5GHz (U-NII-1) Receiver off& Hotspot on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	36/5180	26	0	8.50	7.74
	40/5200		4	8.50	7.22
	48/5240		8	9.00	7.45
11ax_HE20_er_Tone Mcs0	36/5180	52	37	11.00	10.41
	40/5200		38	11.00	10.06
	48/5240		40	11.50	9.76
11ax_HE20_er_Tone Mcs0	36/5180	106	53	14.00	13.62
	40/5200		53	14.00	13.17
	48/5240		54	14.50	12.98
11ax_HE20_er_Tone Mcs0	36/5180	242	61	12.00	11.48
	40/5200		61	17.00	16.34
	48/5240		61	17.50	15.89
11ax_HE40_er_Tone Mcs0	38/5190	484	65	11.00	10.20
	46/5230		65	17.00	16.19
11ax_HE80_er_Tone Mcs0	42/5210	996	67	10.00	9.53
Wi-Fi 5GHz (U-NII-2A) Receiver off& Hotspot on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	26	0	9.50	8.47
	60/5300		4	9.50	7.69
	64/5320		8	9.50	7.87
11ax_HE20_er_Tone Mcs0	52/5260	52	37	12.00	11.29
	60/5300		38	12.00	10.69
	64/5320		40	12.00	10.56
11ax_HE20_er_Tone Mcs0	52/5260	106	53	15.00	14.27
	60/5300		53	15.00	13.85
	64/5320		54	15.00	13.31
11ax_HE20_er_Tone Mcs0	52/5260	242	61	16.00	15.26
	60/5300		61	16.00	14.61
	64/5320		61	16.00	14.66
11ax_HE40_er_Tone Mcs0	54/5270	484	65	16.00	15.27
	62/5310		65	16.00	14.73
11ax_HE80_er_Tone Mcs0	58/5290	996	67	14.00	12.97
Maximum Output Power (dBm)					

Wi-Fi 5GHz (U-NII-2A) Receiver on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	26	0	9.50	8.47
	60/5300		4	9.50	7.69
	64/5320		8	9.50	7.87
11ax_HE20_er_Tone Mcs0	52/5260	52	37	12.00	11.29
	60/5300		38	12.00	10.69
	64/5320		40	12.00	10.56
11ax_HE20_er_Tone Mcs0	52/5260	106	53	14.50	13.81
	60/5300		53	14.50	13.47
	64/5320		54	14.50	12.95
11ax_HE20_er_Tone Mcs0	52/5260	242	61	14.50	13.80
	60/5300		61	14.50	13.23
	64/5320		61	14.50	13.22
11ax_HE40_er_Tone Mcs0	54/5270	484	65	14.50	13.51
	62/5310		65	14.50	13.13
11ax_HE80_er_Tone Mcs0	58/5290	996	67	14.50	13.43
Wi-Fi 5GHz (U-NII-2A) Receiver off& Hotspot on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	26	0	9.00	7.82
	60/5300		4	9.00	7.28
	64/5320		8	9.00	7.63
11ax_HE20_er_Tone Mcs0	52/5260	52	37	11.50	10.59
	60/5300		38	11.50	10.24
	64/5320		40	11.50	10.06
11ax_HE20_er_Tone Mcs0	52/5260	106	53	14.50	13.92
	60/5300		53	14.50	13.47
	64/5320		54	14.50	13.16
11ax_HE20_er_Tone Mcs0	52/5260	242	61	17.50	16.68
	60/5300		61	17.50	16.66
	64/5320		61	17.50	16.09
11ax_HE40_er_Tone Mcs0	54/5270	484	65	17.50	16.42
	62/5310		65	17.50	16.41
11ax_HE80_er_Tone Mcs0	58/5290	996	67	13.50	12.63
Maximum Output Power (dBm)					

Wi-Fi 5GHz (U-NII-2A) Receiver on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	52/5260	26	0	9.00	7.82
	60/5300		4	9.00	7.28
	64/5320		8	9.00	7.63
11ax_HE20_er_Tone Mcs0	52/5260	52	37	11.50	10.59
	60/5300		38	11.50	10.24
	64/5320		40	11.50	10.06
11ax_HE20_er_Tone Mcs0	52/5260	106	53	14.50	13.92
	60/5300		53	14.50	13.47
	64/5320		54	14.50	13.16
11ax_HE20_er_Tone Mcs0	52/5260	242	61	15.50	14.92
	60/5300		61	15.50	14.86
	64/5320		61	15.50	14.13
11ax_HE40_er_Tone Mcs0	54/5270	484	65	15.50	14.52
	62/5310		65	15.50	14.45
11ax_HE80_er_Tone Mcs0	58/5290	996	67	13.50	12.63
Wi-Fi 5GHz (U-NII-2C) Receiver off& Hotspot on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	26	0	9.50	9.21
	118/5580		4	9.50	8.88
	140/5700		8	9.50	8.36
11ax_HE20_er_Tone Mcs0	100/5500	52	37	12.00	11.66
	118/5580		38	12.00	11.23
	140/5700		40	12.00	10.93
11ax_HE20_er_Tone Mcs0	100/5500	106	53	15.00	14.53
	118/5580		53	15.00	14.67
	140/5700		54	15.00	13.91
11ax_HE20_er_Tone Mcs0	100/5500	242	61	14.50	14.06
	118/5580		61	16.00	15.47
	140/5700		61	16.00	14.85
11ax_HE40_er_Tone Mcs0	102/5510	484	65	13.00	12.74
	118/5590		65	16.00	15.44
	134/5670		65	16.00	15.24
11ax_HE80_er_Tone Mcs0	106/5530	996	67	11.00	10.45
	122/5610		67	16.00	15.45

Wi-Fi 5GHz (U-NII-2C) Receiver on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	26	0	9.50	9.21
	118/5580		4	9.50	8.88
	140/5700		8	9.50	8.36
11ax_HE20_er_Tone Mcs0	100/5500	52	37	12.00	11.66
	118/5580		38	12.00	11.23
	140/5700		40	12.00	10.93
11ax_HE20_er_Tone Mcs0	100/5500	106	53	14.50	14.05
	118/5580		53	14.50	14.01
	140/5700		54	14.50	13.41
11ax_HE20_er_Tone Mcs0	100/5500	242	61	14.50	13.90
	118/5580		61	14.50	14.03
	140/5700		61	14.50	13.47
11ax_HE40_er_Tone Mcs0	102/5510	484	65	14.50	14.02
	118/5590		65	14.50	13.82
	134/5670		65	14.50	13.96
11ax_HE80_er_Tone Mcs0	106/5530	996	67	14.50	14.01
	122/5610		67	14.50	14.03
Wi-Fi 5GHz (U-NII-2C) Receiver on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	26	0	9.00	7.81
	118/5580		4	8.50	6.70
	140/5700		8	7.50	6.47
11ax_HE20_er_Tone Mcs0	100/5500	52	37	11.50	9.97
	118/5580		38	11.00	9.18
	140/5700		40	10.00	9.07
11ax_HE20_er_Tone Mcs0	100/5500	106	53	14.50	12.85
	118/5580		53	14.00	12.72
	140/5700		54	13.00	12.31
11ax_HE20_er_Tone Mcs0	100/5500	242	61	14.00	12.47
	118/5580		61	15.00	13.96
	140/5700		61	14.00	13.55
11ax_HE40_er_Tone Mcs0	102/5510	484	65	12.50	11.18
	118/5590		65	15.00	14.52
	134/5670		65	14.00	13.46

11ax_HE80_er_Tone Mcs0	106/5530	996	67	10.50	8.99
	122/5610		67	14.50	13.31
Wi-Fi 5GHz (U-NII-2C) Receiver off& Hotspot on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	100/5500	26	0	9.00	7.81
	118/5580		4	8.50	6.70
	140/5700		8	7.50	6.47
11ax_HE20_er_Tone Mcs0	100/5500	52	37	11.50	9.97
	118/5580		38	11.00	9.18
	140/5700		40	10.50	9.07
11ax_HE20_er_Tone Mcs0	100/5500	106	53	14.50	12.85
	118/5580		53	14.00	12.72
	140/5700		54	13.00	12.31
11ax_HE20_er_Tone Mcs0	100/5500	242	61	14.00	12.47
	118/5580		61	17.00	15.56
	140/5700		61	16.00	15.09
11ax_HE40_er_Tone Mcs0	102/5510	484	65	12.50	11.18
	118/5590		65	17.00	15.90
	134/5670		65	16.00	15.02
11ax_HE80_er_Tone Mcs0	106/5530	996	67	10.50	8.99
	122/5610		67	16.50	14.73
Wi-Fi 5GHz (U-NII-3) Receiver on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	26	0	9.50	8.72
	157/5785		4	9.50	8.48
	165/5825		8	9.50	8.95
11ax_HE20_er_Tone Mcs0	149/5745	52	37	12.00	11.09
	157/5785		38	12.00	11.08
	165/5825		40	12.00	11.06
11ax_HE20_er_Tone Mcs0	149/5745	106	53	13.00	12.37
	157/5785		53	13.00	12.17
	165/5825		54	13.00	12.08
11ax_HE20_er_Tone Mcs0	149/5745	242	61	13.00	11.94
	157/5785		61	13.00	12.10
	165/5825		61	13.00	11.96
	151/5755	484	65	13.00	12.28

11ax_HE40_er_Tone Mcs0	159/5795		65	13.00	12.19
11ax_HE80_er_Tone Mcs0	155/5775	996	67	13.00	12.14
Wi-Fi 5GHz (U-NII-3) Receiver off& Hotspot on--Ant8	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	26	0	9.50	8.72
	157/5785		4	9.50	8.48
	165/5825		8	9.50	8.95
11ax_HE20_er_Tone Mcs0	149/5745	52	37	12.00	11.09
	157/5785		38	12.00	11.08
	165/5825		40	12.00	11.06
11ax_HE20_er_Tone Mcs0	149/5745	106	53	13.00	12.37
	157/5785		53	13.00	12.17
	165/5825		54	13.00	12.08
11ax_HE20_er_Tone Mcs0	149/5745	242	61	13.00	11.94
	157/5785		61	13.00	12.10
	165/5825		61	13.00	11.96
11ax_HE40_er_Tone Mcs0	151/5755	484	65	13.00	12.28
	159/5795		65	13.00	12.19
11ax_HE80_er_Tone Mcs0	155/5775	996	67	13.00	12.14
Wi-Fi 5GHz (U-NII-3) Receiver off& Hotspot on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	26	0	7.50	7.23
	157/5785		4	7.50	6.88
	165/5825		8	7.50	7.33
11ax_HE20_er_Tone Mcs0	149/5745	52	37	10.00	9.48
	157/5785		38	10.00	9.36
	165/5825		40	10.00	9.60
11ax_HE20_er_Tone Mcs0	149/5745	106	53	11.00	10.57
	157/5785		53	11.00	10.57
	165/5825		54	11.00	10.57
11ax_HE20_er_Tone Mcs0	149/5745	242	61	11.00	10.30
	157/5785		61	11.00	10.43
	165/5825		61	11.00	10.48

11ax_HE40_er_Tone Mcs0	151/5755	484	65	11.00	10.62
	159/5795		65	11.00	10.46
11ax_HE80_er_Tone Mcs0	155/5775	996	67	11.00	10.45
Wi-Fi 5GHz (U-NII-3) Receiver on--Ant10	Channel /Freq.(MHz)	RU Size (Tone)	Maximum Output Power (dBm)		
			RU Index	Tune-up	Meas.
11ax_HE20_er_Tone Mcs0	149/5745	26	0	7.50	7.23
	157/5785		4	7.50	6.88
	165/5825		8	7.50	7.33
11ax_HE20_er_Tone Mcs0	149/5745	52	37	10.00	9.48
	157/5785		38	10.00	9.36
	165/5825		40	10.00	9.60
11ax_HE20_er_Tone Mcs0	149/5745	106	53	11.00	10.57
	157/5785		53	11.00	10.57
	165/5825		54	11.00	10.57
11ax_HE20_er_Tone Mcs0	149/5745	242	61	11.00	10.30
	157/5785		61	11.00	10.43
	165/5825		61	11.00	10.48
11ax_HE40_er_Tone Mcs0	151/5755	484	65	11.00	10.62
	159/5795		65	11.00	10.46
11ax_HE80_er_Tone Mcs0	155/5775	996	67	11.00	10.45

9.7 Bluetooth Mode

Bluetooth Receiver on& Receiver off--Ant9	Max Output Power (dBm)					
	Channel/Frequency(MHz)					
	Ch 4/2406 MHz	Tune-up Limit (dBm)	Ch 39/2441 MHz	Tune-up Limit (dBm)	Ch 78/2480 MHz	Tune-up Limit (dBm)
GFSK	15.11	17.00	14.52	16.50	14.66	16.50
$\pi/4$ DQPSK	11.98	14.50	12.13	14.50	12.06	14.50
8DPSK	11.82	14.50	12.24	14.50	11.99	14.50
BLE	Ch 0/2402 MHz	/	Ch 19/2440 MHz	/	Ch 39/2480 MHz	/
GFSK(1M)	10.56	12.50	11.19	12.50	8.72	12.50
GFSK(2M)	10.61	12.50	11.27	12.50	8.83	12.50

Bluetooth WWAN+ WLAN Receiver on& Receiver off--Ant9	Max Output Power (dBm)					
	Channel/Frequency(MHz)					
	Ch 4/2406 MHz	Tune-up Limit (dBm)	Ch 39/2441 MHz	Tune-up Limit (dBm)	Ch 78/2480 MHz	Tune-up Limit (dBm)
GFSK	10.14	12.00	10.62	12.50	9.57	11.50
$\pi/4$ DQPSK	6.77	10.50	6.46	10.50	6.49	10.50
8DPSK	6.61	10.50	6.67	10.50	6.45	10.50
BLE	Ch 0/2402 MHz	/	Ch 19/2440 MHz	/	Ch 39/2480 MHz	/
GFSK(1M)	10.32	12.50	10.86	12.50	8.92	12.50
GFSK(2M)	10.40	12.50	11.06	12.50	8.70	12.50

Bluetooth Receiver on& Receiver off-- Ant13	Max Output Power (dBm)					
	Channel/Frequency(MHz)					
	Ch 4/2406 MHz	Tune-up Limit (dBm)	Ch 39/2441 MHz	Tune-up Limit (dBm)	Ch 78/2480 MHz	Tune-up Limit (dBm)
GFSK	15.53	17.50	15.10	17.00	14.42	16.50
$\pi/4$ DQPSK	12.29	15.50	12.05	15.50	11.69	15.50
8DPSK	12.04	15.50	12.06	15.50	11.54	15.50
BLE	Ch 0/2402 MHz	/	Ch 19/2440 MHz	/	Ch 39/2480 MHz	/
GFSK(1M)	11.43	13.00	11.45	13.00	9.39	13.00
GFSK(2M)	10.79	13.00	11.30	13.00	9.38	13.00

Bluetooth WWAN+ WLAN Receiver on& Receiver off-- Ant13	Max Output Power (dBm)					
	Channel/Frequency(MHz)					
	Ch 4/2406 MHz	Tune-up Limit (dBm)	Ch 39/2441 MHz	Tune-up Limit (dBm)	Ch 78/2480 MHz	Tune-up Limit (dBm)
GFSK	10.65	12.50	11.31	13.00	10.52	12.50
$\pi/4$ DQPSK	7.93	11.00	8.09	11.00	6.43	11.00
8DPSK	7.91	11.00	7.81	11.00	6.18	11.00
BLE	Ch 0/2402 MHz	/	Ch 19/2440 MHz	/	Ch 39/2480 MHz	/
GFSK(1M)	11.51	13.00	11.20	13.00	9.52	13.00
GFSK(2M)	10.99	13.00	11.15	13.00	9.30	13.00