SAR TEST REPORT

No. 25T04Z200151-014

For

Samsung Electronics Co., Ltd.

Multi-band GSM/WCDMA/LTE Tablet with Bluetooth,WLAN

Model Name: SM-X135G

FCC ID: ZCASMX135G

with

Hardware Version: REV1.0

Software Version: X135G.001

Issued Date: 2025-07-18

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
25T04Z200151-014	Rev.0	2025-07-08	Initial creation of test report
25T04Z200151-014	Rev.1	2025-07-10	Update information for the Section 5.3.
25T04Z200151-014	Rev.2	2025-07-18	Update information for the GSM850 sar result in Section 11.1.

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1 Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

1.3. Testing Environment

Normal Temperature: 18-25℃

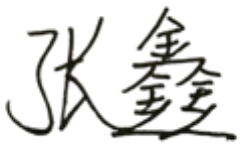
Relative Humidity: 30-70%

1.4. Project data

Testing Start Date: 2025-06-20

Testing End Date: 2025-07-18

1.5. Signature



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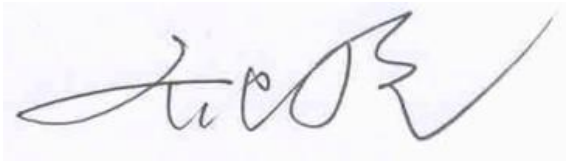

Qi Dianyuan

Deputy Director of the laboratory

(Approved this test report)

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2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Samsung Electronics Co., Ltd. Multi-band GSM/WCDMA/LTE Tablet with Bluetooth,WLAN SM-X135G are as follows:

Table 2.1: Highest Reported SAR (1g)

Band	Antenna	Highest Reported SAR (1g)			
		1g SAR Head	1g SAR Hotspot	1g SAR Body-worn	10-g SAR Phablet
GSM 850	ANT2	0.30	0.78	0.78	\
PCS 1900	ANT2	0.38	0.41	0.41	\
WCDMA1900	ANT2	0.45	0.72	0.50	\
WCDMA1700	ANT2	0.33	0.52	0.52	\
WCDMA850	ANT2	0.33	0.66	0.66	\
LTE Band 2	ANT2	0.45	0.64	0.64	\
LTE Band 5	ANT2	0.33	0.89	0.89	\
LTE Band 7	ANT1	0.08	0.91	0.85	\
LTE Band 17/12	ANT2	0.20	0.60	0.60	\
LTE Band 26	ANT2	0.36	0.76	0.76	\
LTE Band 28	ANT2	0.23	0.58	0.58	\
LTE Band 38/41	ANT1	0.04	0.75	0.75	\
LTE Band 4/66	ANT2	0.31	0.46	0.46	\
WLAN 2.4 GHz	ANT3	0.12	0.49	0.49	\
WLAN 5 GHz	ANT3	0.18	0.86	0.86	\
BT	ANT3	0.08	0.20	0.20	\

Note2: The device have similar frequency in some LTE bands ： LTE Band4/66,12/17,38/41 since the supported frequency spans for the smaller LTE bands are completely cover by the larger LTE bands and the channel bandwidth and other operating parameters for the smaller band be fully supported by the larger band, therefore, only larger LTE bands were required to be tested for SAR. The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and which provides a minimum separation distance of 0 mm between this device and the body of the user. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report. The highest reported SAR value is obtained at the case of **(Table 2.1),** and the values are**:**

Head: 0.45 W/kg(1g)

Hotspot: 0.91 W/kg(1g)

Body-worn: 0.89 W/kg(1g)

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Table 2.2: Simultaneous Transmission-Head

	Position	Main antenna	WiFi	BT	Sum
Highest SAR value for Head	Right head, Tilt	0.45 (LTE Band2 ANT3)	0.16 (WiFi5G)	0.04	**0.65**

Note1: the test positions of above tables are for the worse case that have been evaluated.

Table 2.3: Simultaneous Transmission-Body

	Position	Main antenna	WiFi	BT	Sum
Highest SAR value for Body	Rear 0mm	0.89 (LTE Band5 ANT2)	0.34 (WiFi5G)	0.20	**1.43**

Note1: the test positions of above tables are for the worse case that have been evaluated.

According to the above tables, the highest sum of reported SAR values is **1.43W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

Conclusion:

According to the above tables, the sum of reported SAR values is<1.6W/kg for 1g SAR. So the simultaneous transmission SAR with volume scans is not required.

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3 Client Information

3.1 Applicant Information

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Fax	/

3.2 Manufacturer Information

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Contact Email:	ggobi.cho@samsung.com
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Fax	/

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4 Equipment Under Test (EUT) and Ancillary Equipment (AE)

4.1 About EUT

Description:	Multi-band GSM/WCDMA/LTE Tablet with Bluetooth,WLAN
Model name:	SM-X135G
Tested Band:	GSM850/1900, WCDMA B2/4/5 LTE Band FDD:2/4/5/7/12/17/26/28/66 LTE Band TDD:38/41 BT, Wi-Fi(2.4G), Wi-Fi(5G)
Tx Frequency:	824 – 849 MHz (GSM 850)
	1850 – 1910 MHz (GSM 1900)
	824–849 MHz (WCDMA 850 Band V)
	1710 – 1755 MHz (WCDMA 1700 Band IV)
	1850–1910 MHz (WCDMA1900 Band II)
	1850 – 1910 MHz(LTE Band 2)
	1710 – 1755 MHz (LTE Band 4)
	824 – 849 MHz (LTE Band 5)
	2500 – 2570 MHz(LTE Band 7)
	699 – 716 MHz (LTE Band 12)
	704 –716 MHz (LTE Band 17)
	814 – 849 MHz (LTE Band 26)
	703 – 748 MHz (LTE Band 28)
	2570 – 2620 MHz (LTE Band 38)
	2496 – 2690 MHz (LTE Band 41)
	1710 – 1780 MHz (LTE Band 66)
	2412 – 2462 MHz (Wi-Fi 2.4G)
	5180 – 5240 MHz (UNII-1)
	5260 – 5320 MHz (UNII-2A)
	5500 – 5720 MHz (UNII-2C)
	5745 – 5825 MHz (UNII-3)
	2400 – 2483.5 MHz (Bluetooth)
GPRS/EGPRS Multislot Class:	12
Test device production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna

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4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	357778640019246	REV1.0	X135G.001
EUT2	357778640019005	REV1.0	X135G.001
EUT3	357778640019170	REV1.0	X135G.001
EUT4	357778640019238	REV1.0	X135G.001
EUT5	357778640014908	REV1.0	X135G.001
EUT6	357778640015012	REV1.0	X135G.001
EUT7	357778640015079	REV1.0	X135G.001

*EUT ID: is used to identify the test sample in the lab internally.

Note: It is performed to test SAR with the EUT1~5 and conducted power with the EUT5~7.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	HQ-3565S	\	Secondary Li-ion Battery
AE2	Battery	HQ-6739SDS	\	Secondary Li-ion Battery

*AE ID: is used to identify the test sample in the lab internally.

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5 TEST METHODOLOGY

5.1 Applicable Limit Regulations

ANSI C95.1–1992:IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

It specifies the maximum exposure limit of **4.0** W/kg as averaged over any 10 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2 Applicable Measurement Standards

IEEE Std 1528–2013: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

EN IEC/IEEE 62209-1528:2021 Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from head-held and body-mounted wireless communication devices (Frequency range of 4 MHz to 10 GHz)

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5.3 KDB and Workshop Procedures

KDB447498 D01: General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

KDB648474 D04 Handset SAR v01r03: SAR Evaluation Considerations for Wireless Handsets.

KDB941225 D01 SAR test for 3G devices v03r01: SAR Measurement Procedures for 3G Devices

KDB941225 D05 SAR for LTE Devices v02r05: SAR Evaluation Considerations for LTE Devices

KDB941225 D06 Hotspot Mode SAR v02r01: SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

KDB248227 D01 802.11 Wi-Fi SAR v02r02: SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz.

KDB865664 D02 RF Exposure Reporting v01r02: RF Exposure Compliance Reporting and Documentation Considerations

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6 Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ) . The equation description is as below:

$$SAR = \frac{d}{dt}\left(\frac{dW}{dm}\right) = \frac{d}{dt}\left(\frac{dW}{\rho dv}\right)$$

SAR is expressed in units of Watts per kilogram (W/kg)
SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = c\left(\frac{\delta T}{\delta t}\right)$$

Where: C is the specific head capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

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7 Tissue Simulating Liquids

7.1 Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid(frequency <3GHz)

Frequency(MHz)	Liquid Type	Conductivity(σ)	±10% Range	Permittivity(ε)	± 10% Range
750	Head	0.89	0.80～0.98	41.94	37.75～46.13
900	Head	0.97	0.87～1.07	41.5	37.35～45.65
1800	Head	1.40	1.26～1.54	40.0	36～44
1900	Head	1.40	1.26～1.54	40.0	36～44
2000	Head	1.40	1.26～1.54	40.0	36～44
2300	Head	1.67	1.50～1.84	39.47	37.5～41.4
2450	Head	1.80	1.62～1.98	39.2	35.28～43.12
2600	Head	1.96	1.76～2.16	39.01	35.11～42.91

Table 7.2: Targets for tissue simulating liquid(frequency >3GHz)

Frequency(MHz)	Liquid Type	Conductivity(σ)	± 5% Range	Permittivity(ε)	± 5% Range
3300	Head	2.71	2.57～2.85	38.2	36.29～40.11
3500	Head	2.91	2.76～3.06	37.93	36.03～39.83
3700	Head	3.22	3.06~3.38	37.6	35.72~39.48
3900	Head	3.32	3.15~3.49	37.5	35.63~39.38
4200	Head	3.63	3.45~3.81	37.1	35.25~38.96
5250	Head	4.71	4.47～4.95	35.93	34.13～37.73
5600	Head	5.07	4.82～5.32	35.53	33.8～37.3
5750	Head	5.22	4.96～5.48	35.36	33.59～37.13

7.2 Dielectric Performance

Table 7.3: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ε	Drift (%)	Conductivity σ (S/m)	Drift (%)
2025/6/20	Head	750 MHz	45.16	7.68	0.8844	-0.63
2025/6/23	Head	900 MHz	44.66	7.61	0.9435	-2.73
2025/7/18	Head	900 MHz	42.57	2.58	0.957	-1.34
2025/6/25	Head	1750 MHz	42.91	7.06	1.379	0.66
2025/6/27	Head	1900 MHz	42.59	6.48	1.464	4.57
2025/7/1	Head	2450 MHz	41.76	6.53	1.854	3.00
2025/7/3	Head	2600 MHz	41.44	6.23	1.97	0.51
2025/7/5	Head	5250 MHz	36.91	2.73	4.511	-4.23
2025/7/5	Head	5600 MHz	36.31	2.20	4.885	-3.65
2025/7/5	Head	5750 MHz	36.07	2.01	5.05	-3.26

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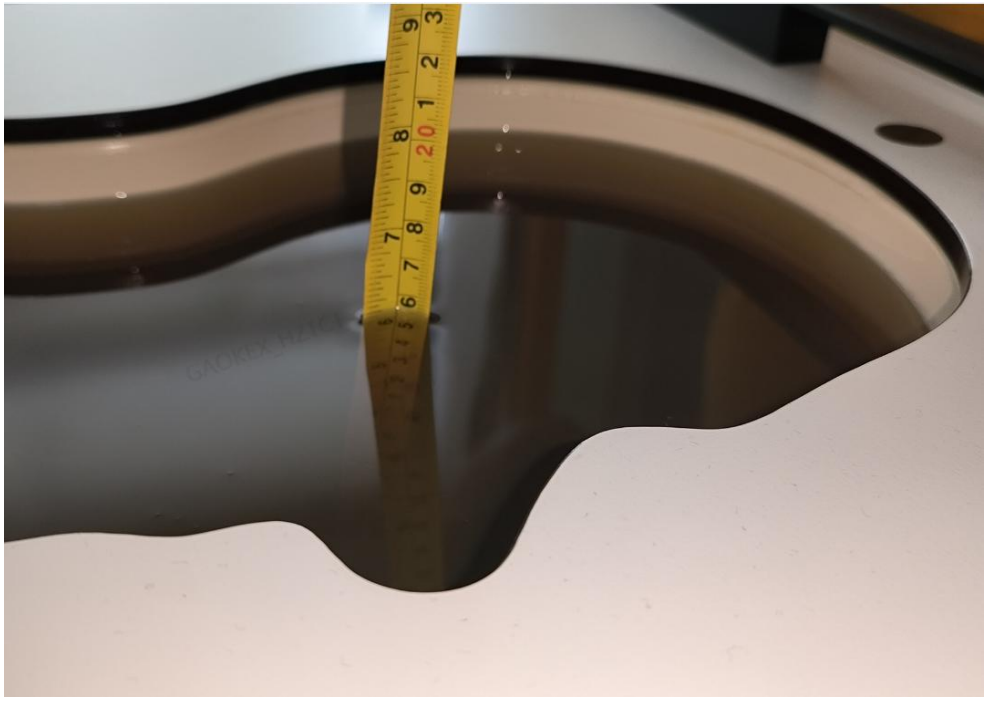
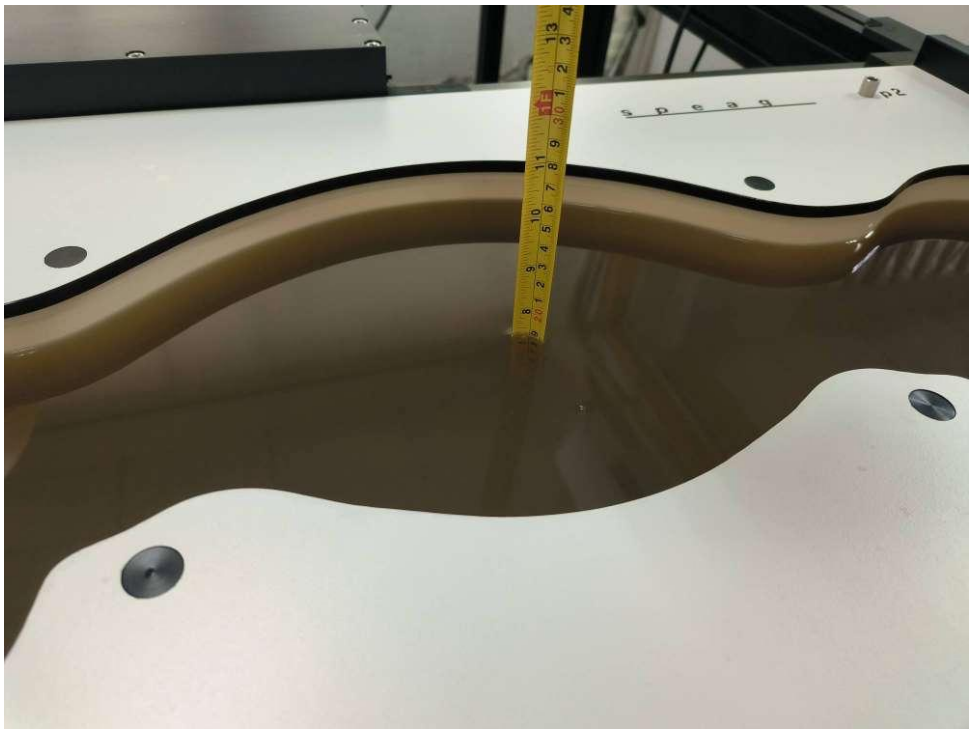


Picture 1 Liquid depth in the Head Phantom



Picture 2 Liquid depth in the Flat Phantom

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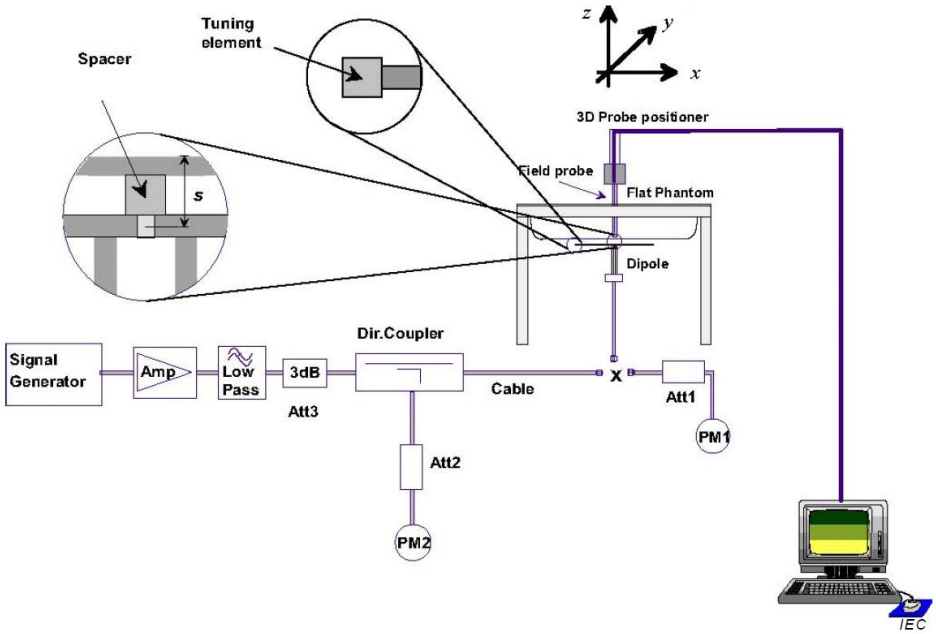
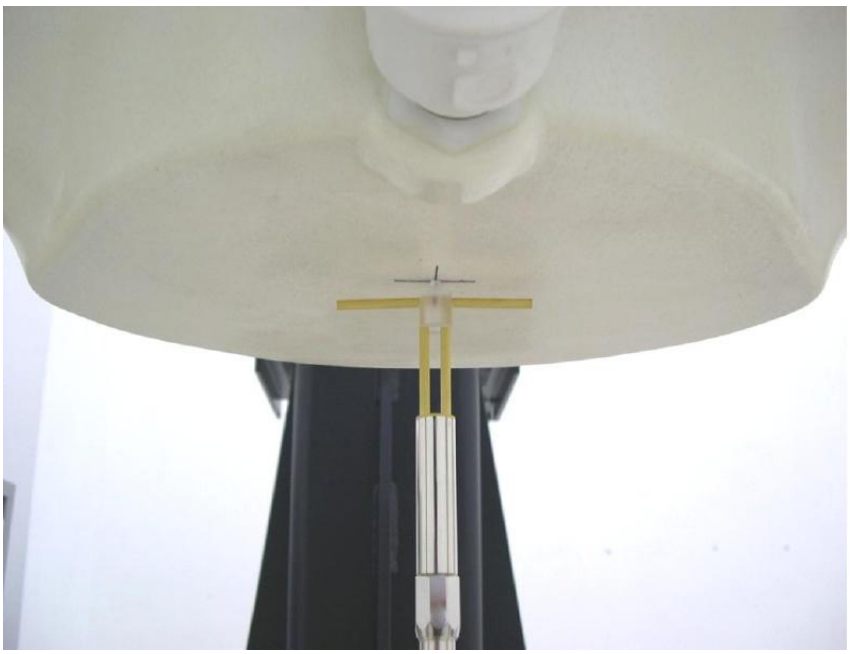
8 System verification

8.1 System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



Picture 3 System Setup for System Evaluation



Picture 4 Photo of Dipole Setup

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8.2 System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.

Table 8.1: System Verification of Head

Measurement Date (yyyy-mm-dd)	Frequency	Target value (W/kg)		Measured value(W/kg)		Deviation	
		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2025/6/20	750 MHz	5.53	8.52	5.32	8.64	-3.80%	1.41%
2025/6/23	900 MHz	6.93	10.90	7.16	11.04	3.32%	1.28%
2025/7/18	900 MHz	6.93	10.90	6.84	10.92	-1.30%	0.18%
2025/6/25	1750 MHz	19.8	37.2	19.0	38.0	-3.84%	2.04%
2025/6/27	1900 MHz	20.6	39.1	21.6	40.4	4.66%	3.32%
2025/7/1	2450 MHz	24.5	52.2	24.7	50.4	0.73%	-3.45%
2025/7/3	2600 MHz	24.8	54.9	25.0	52.4	0.97%	-4.55%
2025/7/5	5250 MHz	22.3	77.8	21.7	78.3	-2.69%	0.64%
2025/7/5	5600 MHz	23.4	81.2	23.2	82.7	-0.85%	1.85%
2025/7/5	5750 MHz	21.7	76.1	22.2	78.1	2.30%	2.63%

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9 Measurement Procedures

9.1 Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 5.

Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
b) all configurations for each device position in a), e.g., antenna extended and retracted, and
c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_c > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing highest peak spatial-average SAR determined in Step 1, perform all tests described in 10.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

Step 3: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.

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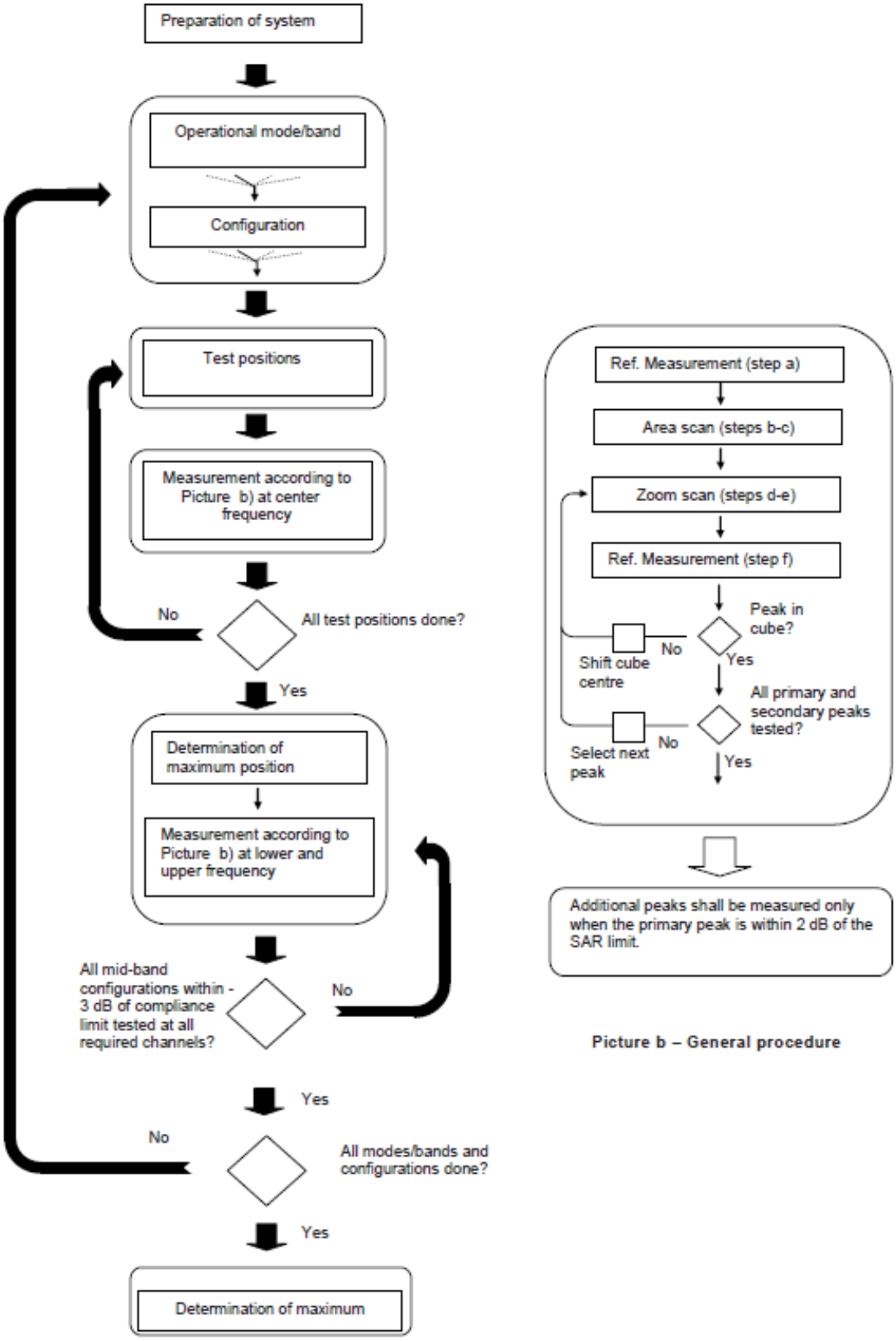

Picture a – Tests to be performed

Picture b – General procedure

Picture 5 Block diagram of the tests to be performed

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9.2 General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2003. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">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.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">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 area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

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9.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & $DPDCH_n$), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

For Release 5 HSDPA Data Devices:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}	CM/dB
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15	15/15	64	12/15	24/25	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

For Release 6 HSPA Data Devices

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.5	1.5	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	1.5	1.5	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	1.5	1.5	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	1.5	1.5	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.5	1.5	21	81

Rel.8 DC-HSDPA (Cat 24)

SAR test exclusion for Rel.8 DC-HSDPA must satisfy the SAR test exclusion requirements of Rel.5 HSDPA. SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion.

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9.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Rohde & Rchwarz CMW500. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the CMW 500.

It is performed for conducted power and SAR based on the KDB941225 D05.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

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 among 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.

TDD test:

TDD testing is performed using guidance from FCC KDB 941225 D05 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

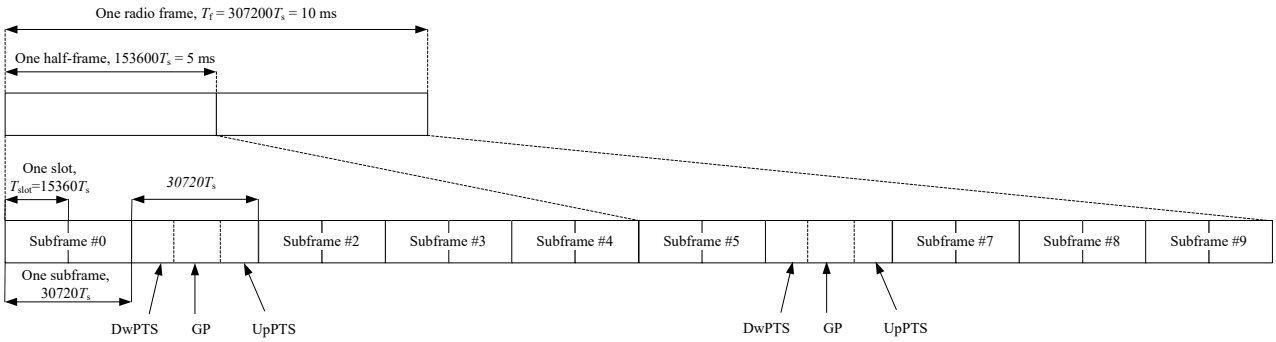

Figure 6: Frame structure type 2 (for 5 ms switch-point periodicity)

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Table 9.1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

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

Table 9.2: 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

Duty factor is calculated by:

Duty factor = uplink frame*6+UpPTS*2/one frame length

= (30720.T_s * 6+5120. T_s*2)/307200.T_s

= 0.633

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9.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.
Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

9.6 NR Measurement Procedures for SAR

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.

9.7 Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in section14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

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10 Conducted Output Power

10.1 GSM Measurement result

GSM850 ANT2 sensor on

GSM850	Conducted Power (dBm)							
	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)	Tune up				
	24.65	24.49	24.52	25.50				
GSM 850	Burst Power (dBm)				calculation	Frame Power (dBm)		
GPRS (GMSK)	251	190	128	Tune up	(dB)	251	190	128
1 Txslot	24.64	24.60	24.61	25.50	-9.03	15.61	15.57	15.58
2 Txslots	22.42	22.36	22.46	23.50	-6.02	16.40	16.34	16.44
3Txslots	20.10	20.19	20.08	21.50	-4.26	15.84	15.93	15.82
4 Txslots	19.03	18.88	19.00	20.50	-3.01	16.02	15.87	15.99
GSM 850	Burst Power (dBm)				calculation	Frame Power (dBm)		
EGPRS (GMSK)	251	190	128	Tune up	(dB)	251	190	128
1 Txslot	24.71	24.56	24.51	25.50	-9.03	15.68	15.53	15.48
2 Txslots	22.50	22.39	22.40	23.50	-6.02	16.48	16.37	16.38
3Txslots	20.15	20.10	20.18	21.50	-4.26	15.89	15.84	15.92
4 Txslots	19.09	18.91	19.02	20.50	-3.01	16.08	15.90	16.01
GSM 850	Burst Power (dBm)				calculation	Frame Power (dBm)		
EGPRS (8PSK)	251	190	128	Tune up	(dB)	251	190	128
1 Txslot	18.33	18.29	18.24	20.00	-9.03	9.30	9.26	9.21
2 Txslots	16.64	16.39	16.58	18.00	-6.02	10.62	10.37	10.56
3Txslots	14.15	14.17	14.11	16.00	-4.26	9.89	9.91	9.85
4 Txslots	13.18	13.14	13.25	15.00	-3.01	10.17	10.13	10.24

GSM850 ANT2 sensor off

GSM850	Conducted Power (dBm)							
	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)	Tune up				
	32.45	32.38	32.37	33.50				
GSM 850	Burst Power (dBm)				calculation	Frame Power (dBm)		
GPRS (GMSK)	251	190	128	Tune up	(dB)	251	190	128
1 Txslot	32.21	32.18	32.16	33.50	-9.03	23.18	23.15	23.13
2 Txslots	30.65	30.57	30.55	31.50	-6.02	24.63	24.55	24.53
3Txslots	28.49	28.39	28.37	29.50	-4.26	24.23	24.13	24.11
4 Txslots	27.35	27.23	27.24	28.50	-3.01	24.34	24.22	24.23
GSM 850	Burst Power (dBm)				calculation	Frame Power (dBm)		
EGPRS (GMSK)	251	190	128	Tune up	(dB)	251	190	128
1 Txslot	32.21	32.16	32.15	33.50	-9.03	23.18	23.13	23.12
2 Txslots	30.64	30.55	30.55	31.50	-6.02	24.62	24.53	24.53
3Txslots	28.47	28.37	28.37	29.50	-4.26	24.21	24.11	24.11
4 Txslots	27.33	27.22	27.24	28.50	-3.01	24.32	24.21	24.23
GSM 850	Burst Power (dBm)				calculation	Frame Power (dBm)		
EGPRS (8PSK)	251	190	128	Tune up	(dB)	251	190	128
1 Txslot	26.33	26.24	26.12	28.00	-9.03	17.30	17.21	17.09
2 Txslots	24.52	24.49	24.27	26.00	-6.02	18.50	18.47	18.25
3Txslots	22.67	22.59	22.67	24.00	-4.26	18.41	18.33	18.41
4 Txslots	21.22	21.17	21.14	23.00	-3.01	18.21	18.16	18.13

GSM1900 ANT2 sensor on

PCS1900	Conducted Power (dBm)							
	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)	Tune up				
	20.03	19.96	20.08	21.00				
PCS1900	Burst Power (dBm)				calculation	Frame Power (dBm)		
GPRS (GMSK)	810	661	512	Tune up	(dB)	810	661	512
1 Txslot	19.91	20.18	20.29	21.00	-9.03	10.88	11.15	11.26
2 Txslots	17.94	18.03	18.09	19.00	-6.02	11.92	12.01	12.07
3Txslots	15.81	15.73	15.88	17.00	-4.26	11.55	11.47	11.62
4 Txslots	14.37	14.33	14.40	16.00	-3.01	11.36	11.32	11.39
PCS1900	Burst Power (dBm)				calculation	Frame Power (dBm)		
EGPRS (GMSK)	810	661	512	Tune up	(dB)	810	661	512
1 Txslot	20.00	20.15	20.25	21.00	-9.03	10.97	11.12	11.22
2 Txslots	17.88	17.93	18.05	19.00	-6.02	11.86	11.91	12.03
3Txslots	15.41	15.67	15.81	17.00	-4.26	11.15	11.41	11.55
4 Txslots	14.48	14.32	14.47	16.00	-3.01	11.47	11.31	11.46
PCS1900	Burst Power (dBm)				calculation	Frame Power (dBm)		
EGPRS (8PSK)	810	661	512	Tune up	(dB)	810	661	512
1 Txslot	16.32	16.38	16.87	17.50	-9.03	7.29	7.35	7.84
2 Txslots	14.67	14.65	14.39	15.50	-6.02	8.65	8.63	8.37
3Txslots	12.41	12.60	12.47	13.50	-4.26	8.15	8.34	8.21
4 Txslots	11.30	11.32	11.35	12.50	-3.01	8.29	8.31	8.34

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GSM1900 ANT2 sensor off

PCS1900	Conducted Power (dBm)							
	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)	Tune up				
	29.17	29.27	29.36	30.50				
PCS1900	Burst Power (dBm)				calculation	Frame Power (dBm)		
GPRS (GMSK)	810	661	512	Tune up	(dB)	810	661	512
1 Txslot	28.92	29.02	29.13	30.50	-9.03	19.89	19.99	20.10
2 Txslots	27.39	27.46	27.56	28.50	-6.02	21.37	21.44	21.54
3Txslots	25.19	25.23	25.32	26.50	-4.26	20.93	20.97	21.06
4 Txslots	24.09	24.11	24.22	25.50	-3.01	21.08	21.10	21.21
PCS1900	Burst Power (dBm)				calculation	Frame Power (dBm)		
EGPRS (GMSK)	810	661	512	Tune up	(dB)	810	661	512
1 Txslot	28.90	29.01	29.11	30.50	-9.03	19.87	19.98	20.08
2 Txslots	27.37	27.45	27.54	28.50	-6.02	21.35	21.43	21.52
3Txslots	25.16	25.21	25.31	26.50	-4.26	20.90	20.95	21.05
4 Txslots	24.07	24.09	24.20	25.50	-3.01	21.06	21.08	21.19
PCS1900	Burst Power (dBm)				calculation	Frame Power (dBm)		
EGPRS (8PSK)	810	661	512	Tune up	(dB)	810	661	512
1 Txslot	25.80	25.81	25.86	27.00	-9.03	16.77	16.78	16.83
2 Txslots	24.14	24.27	24.18	25.00	-6.02	18.12	18.25	18.16
3Txslots	22.51	22.34	22.36	23.00	-4.26	18.25	18.08	18.10
4 Txslots	20.95	20.98	20.98	22.00	-3.01	17.94	17.97	17.97

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10.2 WCDMA Measurement result

Band	ANT	Sensor on	Sensor off
WCDMA 1900	2	13	25
WCDMA 1700	2	13	25
WCDMA 850	2	16	25

WCDMA1900 ANT2 sensor on

WCDMA1900	FDDII result (dBm)			
	9538/9938	9400/9800	9262/9662	Tune up
	(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	12.07	12.04	12.11	13.00
HSUPA	8.95	9.05	9.13	10.00
	9.09	9.03	8.97	10.00
	10.21	10.11	10.07	11.00
	8.71	8.64	8.67	9.50
	10.09	10.13	10.12	11.00
HSPA+	10.54	10.63	10.54	12.00
DC-HSDPA	11.04	11.11	11.09	12.00
	11	11.06	11.15	12.00
	10.46	10.51	10.45	11.50
	10.53	10.57	10.66	11.50

WCDMA1900 ANT2 sensor off

WCDMA1900	FDDII result (dBm)			
	9538/9938	9400/9800	9262/9662	Tune up
	(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	23.96	23.94	23.98	25.00
HSUPA	21.05	21.05	21.01	22.00
	21.06	21.09	21.11	22.00
	22.09	22.08	22.13	23.00
	20.72	20.64	20.64	21.50
	22.09	22.07	22.02	23.00
HSPA+	22.55	22.56	22.59	24.00
DC-HSDPA	23.14	23.07	22.97	24.00
	23.11	23.04	23.08	24.00
	22.59	22.53	22.44	23.50
	22.47	22.54	22.60	23.50

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WCDMA1700 ANT2 sensor on

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	12.17	12.14	12.15	13.00
HSUPA	10.41	10.47	10.55	11.00
	10.33	10.35	10.31	11.00
	11.37	11.39	11.49	12.00
	9.91	9.91	9.99	10.50
	11.36	11.34	11.27	12.00
HSPA+	10.69	10.78	10.85	12.00
DC-HSDPA	11.27	11.19	11.19	12.00
	11.07	10.97	10.89	12.00
	10.57	10.62	10.63	11.50
	10.74	10.71	10.62	11.50

WCDMA1700 ANT2 sensor off

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	24.17	24.11	24.13	25.00
HSUPA	22.08	22.03	21.98	23.00
	22.04	22.02	22.02	23.00
	23.02	23.03	23.03	24.00
	21.43	21.51	21.54	22.50
	22.92	23.00	23.05	24.00
HSPA+	22.58	22.64	22.59	24.00
DC-HSDPA	23.13	23.17	23.20	24.00
	22.98	23.04	23.05	24.00
	22.55	22.57	22.64	23.50
	22.48	22.56	22.50	23.50

WCDMA850 ANT2 sensor on

WCDMA850	FDDV result (dBm)			Tune up
	4233/4458	4183/4408	4132/4357	
	(846.6MHz)	(836.6MHz)	(826.4MHz)	
	15.21	15.13	15.22	16.00
HSUPA	12.86	12.94	12.86	14.00
	12.79	12.89	12.80	14.00
	14.16	14.15	14.08	15.00
	12.57	12.62	12.58	13.50
	13.94	13.84	13.79	14.00
HSPA+	13.9	13.80	13.87	15.00
DC-HSDPA	14.27	14.19	14.29	14.50
	14.06	14.07	13.98	14.50
	13.66	13.64	13.56	14.00
	13.7	13.63	13.53	14.00

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WCDMA850 ANT2 sensor off

WCDMA850	FDDV result (dBm)			
	4233/4458	4183/4408	4132/4357	Tune up
	(846.6MHz)	(836.6MHz)	(826.4MHz)	
	24.25	24.03	24.16	25.00
HSUPA	21.92	21.95	21.93	23.00
	21.9	21.84	21.79	23.00
	23.26	23.21	23.11	24.00
	21.5	21.52	21.47	22.50
	22.8	22.86	22.80	24.00
HSPA+	22.76	22.77	22.80	24.00
DC-HSDPA	23.02	23.12	23.05	23.50
	22.84	22.91	22.97	23.50
	22.69	22.63	22.71	23.00
	22.63	22.71	22.63	23.00

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10.3 LTE Measurement result

Table 10.1: The maximum output power(Tune-up)

Band	ANT	Sensor on	Sensor off
LTE Band 2	2	13	24.5
LTE Band 5	2	16	25
LTE Band 7	1	10	25
LTE Band 17/12	2	15	25
LTE Band 26	2	16	25
LTE Band 28	2	15	25
LTE Band 38/41	1	11.5	25
LTE Band 4/66	2	12.5	24.5

Table 10.2: Maximum Power Reduction (MPR) for LTE

Modulation	1.4 MHz	MPR	3 MHz	MPR	5 MHz	MPR	10 MHz	MPR	15 MHz	MPR	20 MHz	MPR
QPSK	≤5	0	≤4	0	≤8	0	≤12	0	≤16	0	≤18	0
QPSK	>5	1	>4	1	>8	1	>12	1	>16	1	>18	1
16 QAM	≤5	1	≤4	1	≤8	1	≤12	1	≤16	1	≤18	1
16 QAM	>5	2	>4	2	>8	2	>12	2	>16	2	>18	2
64 QAM	≤5	2	≤4	2	≤8	2	≤12	2	≤16	2	≤18	2
64 QAM	>5	3	>4	3	>8	3	>12	3	>16	3	>18	3
256 QAM	≤5	5	≤4	5	≤8	5	≤12	5	≤16	5	≤18	5
256 QAM	>5	5	>4	5	>8	5	>12	5	>16	5	>18	5

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LTE Band2 ANT2 sensor on

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	11.95	12.01	12.02
		1880 (18900)	11.95	12.10	12.14
		1850.7 (18607)	11.82	12.05	12.17
	1RB-Middle (3)	1909.3 (19193)	11.84	11.99	12.19
		1880 (18900)	11.98	12.20	12.09
		1850.7 (18607)	11.96	12.28	12.16
	1RB-Low (0)	1909.3 (19193)	11.91	12.01	12.07
		1880 (18900)	11.85	12.10	12.17
		1850.7 (18607)	12.00	12.22	12.18
	3RB-High (3)	1909.3 (19193)	11.96	11.93	12.01
		1880 (18900)	11.85	12.00	12.18
		1850.7 (18607)	11.92	12.12	12.08
	3RB-Middle (1)	1909.3 (19193)	12.00	11.91	12.06
		1880 (18900)	11.92	11.86	12.00
		1850.7 (18607)	12.11	11.97	12.24
	3RB-Low (0)	1909.3 (19193)	11.97	11.90	12.09
		1880 (18900)	11.94	11.84	12.06
		1850.7 (18607)	12.03	12.01	12.27
	6RB (0)	1909.3 (19193)	11.97	12.16	12.09
		1880 (18900)	11.95	12.06	11.95
		1850.7 (18607)	12.12	12.24	12.21
3MHz	1RB-High (14)	1908.5 (19185)	11.86	11.81	12.02
		1880 (18900)	11.96	11.83	11.92
		1851.5 (18615)	11.84	12.12	12.08
	1RB-Middle (7)	1908.5 (19185)	11.86	11.92	12.06
		1880 (18900)	11.81	12.02	11.95
		1851.5 (18615)	11.97	12.15	12.23
	1RB-Low (0)	1908.5 (19185)	11.86	11.96	11.84
		1880 (18900)	11.83	11.88	11.93
		1851.5 (18615)	11.90	12.06	12.00
	8RB-High (7)	1908.5 (19185)	11.84	11.82	11.95
		1880 (18900)	11.81	11.91	12.02
		1851.5 (18615)	12.00	12.08	12.09
	8RB-Middle (4)	1908.5 (19185)	11.99	11.96	11.97
		1880 (18900)	11.97	11.98	12.04
		1851.5 (18615)	12.00	12.05	12.05
	8RB-Low (0)	1908.5 (19185)	11.95	11.99	11.88
		1880 (18900)	11.83	12.02	11.92

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		1851.5 (18615)	11.97	11.97	12.04
	15RB (0)	1908.5 (19185)	11.92	11.83	11.88
		1880 (18900)	11.86	11.97	11.94
		1851.5 (18615)	11.90	11.92	12.07
5MHz	1RB-High (24)	1907.5 (19175)	11.84	12.06	12.09
		1880 (18900)	11.81	12.06	12.10
		1852.5 (18625)	12.07	12.09	12.12
	1RB-Middle (12)	1907.5 (19175)	12.10	12.24	12.08
		1880 (18900)	11.94	12.42	12.24
		1852.5 (18625)	12.17	12.44	12.30
	1RB-Low (0)	1907.5 (19175)	11.97	12.21	12.08
		1880 (18900)	11.89	12.05	12.06
		1852.5 (18625)	12.00	12.14	12.16
	12RB-High (13)	1907.5 (19175)	11.91	11.88	11.99
		1880 (18900)	12.02	12.05	11.95
		1852.5 (18625)	12.06	12.01	12.09
	12RB-Middle (6)	1907.5 (19175)	11.96	12.06	11.94
		1880 (18900)	12.09	11.92	12.02
		1852.5 (18625)	12.03	12.13	12.16
	12RB-Low (0)	1907.5 (19175)	11.97	11.94	11.99
		1880 (18900)	11.97	12.06	11.90
		1852.5 (18625)	12.14	12.01	12.01
	25RB (0)	1907.5 (19175)	12.06	11.99	12.05
		1880 (18900)	12.06	11.97	11.92
		1852.5 (18625)	12.16	12.16	12.04
10MHz	1RB-High (49)	1905 (19150)	12.00	12.29	12.13
		1880 (18900)	11.96	12.19	12.17
		1855 (18650)	12.06	12.37	12.20
	1RB-Middle (24)	1905 (19150)	12.00	12.35	12.16
		1880 (18900)	12.04	12.38	12.14
		1855 (18650)	12.05	12.31	12.34
	1RB-Low (0)	1905 (19150)	12.00	12.37	12.21
		1880 (18900)	11.98	12.30	12.07
		1855 (18650)	12.15	12.23	12.19
	25RB-High (25)	1905 (19150)	12.00	11.95	11.93
		1880 (18900)	12.00	11.89	11.95
		1855 (18650)	12.16	12.11	12.10
	25RB-Middle (12)	1905 (19150)	12.11	12.04	11.96
		1880 (18900)	11.95	12.03	12.11
		1855 (18650)	12.19	12.15	12.06

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	25RB-Low (0)	1905 (19150)	11.90	12.06	11.95
		1880 (18900)	11.93	12.01	12.04
		1855 (18650)	12.09	12.11	12.02
	50RB (0)	1905 (19150)	12.03	11.92	11.92
		1880 (18900)	11.91	12.03	11.89
		1855 (18650)	12.12	12.10	12.00
15MHz	1RB-High (74)	1902.5 (19125)	11.97	12.27	11.98
		1880 (18900)	11.86	12.22	12.05
		1857.5 (18675)	11.94	12.27	12.06
	1RB-Middle (37)	1902.5 (19125)	12.05	12.21	12.14
		1880 (18900)	12.10	12.38	12.12
		1857.5 (18675)	11.98	12.36	12.17
	1RB-Low (0)	1902.5 (19125)	11.85	12.18	12.00
		1880 (18900)	12.00	12.21	11.96
		1857.5 (18675)	12.01	12.24	12.28
	36RB-High (38)	1902.5 (19125)	12.03	11.97	12.04
		1880 (18900)	11.93	11.88	12.03
		1857.5 (18675)	11.98	12.03	11.99
	36RB-Middle (19)	1902.5 (19125)	11.93	11.95	11.91
		1880 (18900)	12.04	12.05	11.99
		1857.5 (18675)	11.94	12.10	12.05
	36RB-Low (0)	1902.5 (19125)	12.00	11.98	11.88
		1880 (18900)	11.90	12.01	12.03
		1857.5 (18675)	12.07	11.93	11.97
	75RB (0)	1902.5 (19125)	11.95	11.85	12.03
		1880 (18900)	12.04	12.03	11.96
		1857.5 (18675)	11.97	11.94	12.01
20MHz	1RB-High (99)	1900 (19100)	11.91	12.03	12.03
		1880 (18900)	12.00	11.92	12.03
		1860 (18700)	11.94	12.27	12.05
	1RB-Middle (50)	1900 (19100)	12.11	12.14	12.17
		1880 (18900)	12.12	12.24	12.14
		1860 (18700)	12.08	12.28	12.28
	1RB-Low (0)	1900 (19100)	11.81	11.98	12.10
		1880 (18900)	11.86	12.06	12.05
		1860 (18700)	11.90	12.23	12.02
	50RB-High (50)	1900 (19100)	11.97	11.88	11.86
		1880 (18900)	12.07	11.92	11.92
		1860 (18700)	11.94	11.99	12.04
	50RB-Middle (25)	1900 (19100)	12.10	12.06	12.05

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		1880 (18900)	12.15	11.92	11.94
		1860 (18700)	12.14	11.97	12.06
	50RB-Low (0)	1900 (19100)	11.95	11.97	11.83
		1880 (18900)	11.94	11.93	12.05
		1860 (18700)	11.95	11.99	11.91
	100RB (0)	1900 (19100)	11.87	11.95	11.84
		1880 (18900)	11.92	11.95	11.90
		1860 (18700)	12.04	11.92	11.92

LTE Band2 ANT2 sensor off

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	23.26	22.60	21.60
		1880 (18900)	23.24	22.61	21.58
		1850.7 (18607)	23.34	22.63	21.63
	1RB-Middle (3)	1909.3 (19193)	23.31	22.58	21.65
		1880 (18900)	23.31	22.55	21.61
		1850.7 (18607)	23.45	22.76	21.69
	1RB-Low (0)	1909.3 (19193)	23.23	22.44	21.59
		1880 (18900)	23.25	22.59	21.62
		1850.7 (18607)	23.37	22.58	21.57
	3RB-High (3)	1909.3 (19193)	23.40	22.35	21.60
		1880 (18900)	23.38	22.41	21.60
		1850.7 (18607)	23.53	22.51	21.68
	3RB-Middle (1)	1909.3 (19193)	23.40	22.42	21.59
		1880 (18900)	23.41	22.37	21.69
		1850.7 (18607)	23.50	22.54	21.70
	3RB-Low (0)	1909.3 (19193)	23.39	22.42	21.58
		1880 (18900)	23.39	22.39	21.63
		1850.7 (18607)	23.47	22.48	21.71
	6RB (0)	1909.3 (19193)	22.52	21.61	20.54
		1880 (18900)	22.47	21.59	20.50
		1850.7 (18607)	22.60	21.71	20.61
3MHz	1RB-High (14)	1908.5 (19185)	23.19	22.37	21.49
		1880 (18900)	23.15	22.50	21.52
		1851.5 (18615)	23.21	22.57	21.55
	1RB-Middle (7)	1908.5 (19185)	23.24	22.52	21.57
		1880 (18900)	23.28	22.43	21.55
		1851.5 (18615)	23.37	22.68	21.66
	1RB-Low (0)	1908.5 (19185)	23.15	22.41	21.49
		1880 (18900)	23.17	22.45	21.50

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		1851.5 (18615)	23.27	22.58	21.51
	8RB-High (7)	1908.5 (19185)	22.40	21.46	20.46
		1880 (18900)	22.39	21.44	20.44
		1851.5 (18615)	22.48	21.53	20.53
	8RB-Middle (4)	1908.5 (19185)	22.46	21.50	20.52
		1880 (18900)	22.45	21.50	20.53
		1851.5 (18615)	22.52	21.56	20.55
	8RB-Low (0)	1908.5 (19185)	22.40	21.46	20.47
		1880 (18900)	22.41	21.44	20.47
		1851.5 (18615)	22.46	21.56	20.55
	15RB (0)	1908.5 (19185)	22.40	21.45	20.43
		1880 (18900)	22.41	21.40	20.40
		1851.5 (18615)	22.45	21.47	20.47
5MHz	1RB-High (24)	1907.5 (19175)	23.40	22.69	21.62
		1880 (18900)	23.40	22.79	21.61
		1852.5 (18625)	23.47	22.77	21.61
	1RB-Middle (12)	1907.5 (19175)	23.50	22.78	21.71
		1880 (18900)	23.51	22.82	21.75
		1852.5 (18625)	23.58	22.87	21.79
	1RB-Low (0)	1907.5 (19175)	23.36	22.66	21.54
		1880 (18900)	23.41	22.69	21.66
		1852.5 (18625)	23.49	22.75	21.64
	12RB-High (13)	1907.5 (19175)	22.48	21.51	20.51
		1880 (18900)	22.47	21.51	20.53
		1852.5 (18625)	22.59	21.57	20.63
	12RB-Middle (6)	1907.5 (19175)	22.53	21.54	20.59
		1880 (18900)	22.50	21.54	20.57
		1852.5 (18625)	22.61	21.62	20.67
	12RB-Low (0)	1907.5 (19175)	22.45	21.47	20.49
		1880 (18900)	22.47	21.48	20.52
		1852.5 (18625)	22.52	21.53	20.56
	25RB (0)	1907.5 (19175)	22.51	21.52	20.51
		1880 (18900)	22.51	21.52	20.53
		1852.5 (18625)	22.55	21.57	20.60
10MHz	1RB-High (49)	1905 (19150)	23.50	22.76	21.71
		1880 (18900)	23.50	22.70	21.70
		1855 (18650)	23.53	22.83	21.73
	1RB-Middle (24)	1905 (19150)	23.52	22.81	21.75
		1880 (18900)	23.53	22.85	21.85
		1855 (18650)	23.60	22.94	21.82

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	1RB-Low (0)	1905 (19150)	23.51	22.75	21.75
		1880 (18900)	23.51	22.81	21.77
		1855 (18650)	23.60	22.86	21.80
	25RB-High (25)	1905 (19150)	22.49	21.51	20.52
		1880 (18900)	22.51	21.52	20.53
		1855 (18650)	22.57	21.64	20.62
	25RB-Middle (12)	1905 (19150)	22.56	21.57	20.59
		1880 (18900)	22.50	21.57	20.58
		1855 (18650)	22.61	21.64	20.64
	25RB-Low (0)	1905 (19150)	22.53	21.56	20.53
		1880 (18900)	22.48	21.51	20.53
		1855 (18650)	22.54	21.57	20.57
	50RB (0)	1905 (19150)	22.56	21.55	20.56
		1880 (18900)	22.54	21.54	20.53
		1855 (18650)	22.57	21.57	20.58
15MHz	1RB-High (74)	1902.5 (19125)	23.44	22.72	21.68
		1880 (18900)	23.44	22.78	21.68
		1857.5 (18675)	23.46	22.83	21.69
	1RB-Middle (37)	1902.5 (19125)	23.52	22.88	21.72
		1880 (18900)	23.54	22.86	21.86
		1857.5 (18675)	23.57	22.78	21.84
	1RB-Low (0)	1902.5 (19125)	23.42	22.75	21.66
		1880 (18900)	23.47	22.76	21.74
		1857.5 (18675)	23.51	22.74	21.79
	36RB-High (38)	1902.5 (19125)	22.48	21.54	20.52
		1880 (18900)	22.50	21.51	20.56
		1857.5 (18675)	22.59	21.59	20.63
	36RB-Middle (19)	1902.5 (19125)	22.53	21.55	20.59
		1880 (18900)	22.58	21.56	20.63
		1857.5 (18675)	22.56	21.58	20.60
	36RB-Low (0)	1902.5 (19125)	22.49	21.51	20.54
		1880 (18900)	22.51	21.53	20.59
		1857.5 (18675)	22.51	21.51	20.56
	75RB (0)	1902.5 (19125)	22.51	21.49	20.51
		1880 (18900)	22.54	21.54	20.55
		1857.5 (18675)	22.59	21.60	20.59
20MHz	1RB-High (99)	1900 (19100)	23.37	22.63	21.52
		1880 (18900)	23.35	22.60	21.55
		1860 (18700)	23.39	22.62	21.63
	1RB-Middle (50)	1900 (19100)	23.52	22.69	21.78

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		1880 (18900)	23.57	22.76	21.72
		1860 (18700)	23.56	22.90	21.80
	1RB-Low (0)	1900 (19100)	23.30	22.50	21.44
		1880 (18900)	23.36	22.57	21.50
		1860 (18700)	23.45	22.64	21.66
	50RB-High (50)	1900 (19100)	22.50	21.49	20.49
		1880 (18900)	22.53	21.54	20.58
		1860 (18700)	22.61	21.59	20.59
	50RB-Middle (25)	1900 (19100)	22.57	21.55	20.57
		1880 (18900)	22.63	21.59	20.61
		1860 (18700)	22.62	21.61	20.61
	50RB-Low (0)	1900 (19100)	22.45	21.43	20.46
		1880 (18900)	22.57	21.54	20.55
		1860 (18700)	22.49	21.48	20.48
	100RB (0)	1900 (19100)	22.43	21.43	20.45
		1880 (18900)	22.53	21.54	20.54
		1860 (18700)	22.53	21.52	20.54

LTE Band5 ANT2 sensor on

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (20643)	14.67	15.05	15.05
		836.5 (20525)	14.70	15.11	15.12
		824.7 (20407)	14.78	15.19	15.09
	1RB-Middle (3)	848.3 (20643)	14.73	15.05	15.14
		836.5 (20525)	14.78	15.07	15.18
		824.7 (20407)	14.78	15.23	15.09
	1RB-Low (0)	848.3 (20643)	14.72	15.00	15.10
		836.5 (20525)	14.71	15.13	15.14
		824.7 (20407)	14.72	15.10	15.14
	3RB-High (3)	848.3 (20643)	14.79	14.78	15.07
		836.5 (20525)	14.83	14.82	15.04
		824.7 (20407)	14.85	14.86	15.08
	3RB-Middle (1)	848.3 (20643)	14.84	14.88	15.11
		836.5 (20525)	14.84	14.84	15.03
		824.7 (20407)	14.87	14.92	15.08
	3RB-Low (0)	848.3 (20643)	14.81	14.88	15.06
		836.5 (20525)	14.80	14.87	15.04
		824.7 (20407)	14.84	14.91	15.06
	6RB (0)	848.3 (20643)	14.90	15.01	15.00
		836.5 (20525)	14.89	15.03	14.92
		824.7 (20407)	14.92	15.09	14.93

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3MHz	1RB-High (14)	847.5 (20635)	14.66	15.07	14.93
		836.5 (20525)	14.62	14.99	14.99
		825.5 (20415)	14.63	15.02	15.02
	1RB-Middle (7)	847.5 (20635)	14.74	15.06	15.15
		836.5 (20525)	14.74	15.20	15.13
		825.5 (20415)	14.77	15.21	15.12
	1RB-Low (0)	847.5 (20635)	14.65	15.07	15.03
		836.5 (20525)	14.63	15.03	14.97
		825.5 (20415)	14.65	15.05	15.07
	8RB-High (7)	847.5 (20635)	14.88	14.99	14.98
		836.5 (20525)	14.84	14.94	14.92
		825.5 (20415)	14.87	14.95	14.94
	8RB-Middle (4)	847.5 (20635)	14.95	15.05	15.03
		836.5 (20525)	14.92	15.01	15.00
		825.5 (20415)	14.96	15.03	15.05
	8RB-Low (0)	847.5 (20635)	14.87	14.97	14.99
		836.5 (20525)	14.84	14.98	14.96
		825.5 (20415)	14.86	14.95	14.96
	15RB (0)	847.5 (20635)	14.86	14.89	14.90
		836.5 (20525)	14.82	14.86	14.89
		825.5 (20415)	14.82	14.89	14.91
5MHz	1RB-High (24)	846.5 (20625)	14.96	15.18	15.18
		836.5 (20525)	14.93	15.20	15.12
		826.5 (20425)	14.94	15.30	15.16
	1RB-Middle (12)	846.5 (20625)	15.06	15.30	15.26
		836.5 (20525)	15.07	15.30	15.25
		826.5 (20425)	15.01	15.44	15.27
	1RB-Low (0)	846.5 (20625)	14.96	15.31	15.19
		836.5 (20525)	15.02	15.23	15.16
		826.5 (20425)	14.97	15.38	15.19
	12RB-High (13)	846.5 (20625)	15.02	15.03	15.06
		836.5 (20525)	14.92	14.91	14.97
		826.5 (20425)	14.98	14.98	15.01
	12RB-Middle (6)	846.5 (20625)	15.09	15.07	15.16
		836.5 (20525)	15.05	15.04	15.09
		826.5 (20425)	15.04	15.05	15.08
	12RB-Low (0)	846.5 (20625)	14.98	14.98	15.04
		836.5 (20525)	15.03	15.05	15.08
		826.5 (20425)	14.95	14.99	15.01
	25RB (0)	846.5 (20625)	15.02	15.05	15.08

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		836.5 (20525)	14.98	15.02	15.02
		826.5 (20425)	14.98	15.02	15.04
10MHz	1RB-High (49)	844 (20600)	15.15	15.38	15.35
		836.5 (20525)	15.13	15.41	15.29
		829 (20450)	15.13	15.49	15.31
	1RB-Middle (24)	844 (20600)	15.21	15.44	15.29
		836.5 (20525)	15.22	15.42	15.35
		829 (20450)	15.20	15.49	15.33
	1RB-Low (0)	844 (20600)	15.21	15.48	15.29
		836.5 (20525)	15.21	15.45	15.31
		829 (20450)	15.19	15.57	15.40
	25RB-High (25)	844 (20600)	15.14	15.13	15.12
		836.5 (20525)	15.06	15.08	15.05
		829 (20450)	15.06	15.07	15.06
	25RB-Middle (12)	844 (20600)	15.20	15.20	15.19
		836.5 (20525)	15.21	15.19	15.18
		829 (20450)	15.13	15.14	15.11
	25RB-Low (0)	844 (20600)	15.06	15.07	15.05
		836.5 (20525)	15.17	15.17	15.16
		829 (20450)	14.99	15.01	14.99
	50RB (0)	844 (20600)	15.13	15.11	15.08
		836.5 (20525)	15.13	15.11	15.09
		829 (20450)	15.06	15.03	15.04

LTE Band5 ANT2 sensor off

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (20643)	23.63	22.96	21.94
		836.5 (20525)	23.64	23.01	22.05
		824.7 (20407)	23.77	23.03	22.06
	1RB-Middle (3)	848.3 (20643)	23.72	22.88	22.00
		836.5 (20525)	23.71	23.04	22.06
		824.7 (20407)	23.79	23.08	22.10
	1RB-Low (0)	848.3 (20643)	23.67	22.88	22.01
		836.5 (20525)	23.64	22.98	22.04
		824.7 (20407)	23.74	22.93	21.97
	3RB-High (3)	848.3 (20643)	23.74	22.70	21.98
		836.5 (20525)	23.75	22.77	21.99
		824.7 (20407)	23.86	22.86	22.04
	3RB-Middle (1)	848.3 (20643)	23.76	22.80	22.02
		836.5 (20525)	23.77	22.79	22.00

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		824.7 (20407)	23.86	22.87	22.06
	3RB-Low (0)	848.3 (20643)	23.75	22.83	22.01
		836.5 (20525)	23.75	22.82	21.99
		824.7 (20407)	23.84	22.86	22.04
	6RB (0)	848.3 (20643)	22.92	21.98	20.93
		836.5 (20525)	22.90	22.01	20.90
		824.7 (20407)	22.94	22.05	20.93
3MHz	1RB-High (14)	847.5 (20635)	23.57	22.90	21.89
		836.5 (20525)	23.51	22.92	21.90
		825.5 (20415)	23.64	22.94	21.96
	1RB-Middle (7)	847.5 (20635)	23.69	23.05	22.01
		836.5 (20525)	23.67	22.96	22.06
		825.5 (20415)	23.79	23.08	22.06
	1RB-Low (0)	847.5 (20635)	23.55	22.84	21.95
		836.5 (20525)	23.59	22.95	21.96
		825.5 (20415)	23.65	22.86	22.00
	8RB-High (7)	847.5 (20635)	22.83	21.90	20.93
		836.5 (20525)	22.80	21.85	20.90
		825.5 (20415)	22.86	21.87	20.92
	8RB-Middle (4)	847.5 (20635)	22.88	21.96	20.97
		836.5 (20525)	22.87	21.93	20.95
		825.5 (20415)	22.95	21.97	21.03
	8RB-Low (0)	847.5 (20635)	22.82	21.91	20.92
		836.5 (20525)	22.82	21.87	20.88
		825.5 (20415)	22.81	21.86	20.91
	15RB (0)	847.5 (20635)	22.84	21.88	20.88
		836.5 (20525)	22.80	21.81	20.82
		825.5 (20415)	22.83	21.83	20.86
5MHz	1RB-High (24)	846.5 (20625)	23.80	23.03	22.05
		836.5 (20525)	23.79	23.19	22.08
		826.5 (20425)	23.85	23.14	22.10
	1RB-Middle (12)	846.5 (20625)	23.96	23.29	22.13
		836.5 (20525)	23.91	23.30	22.21
		826.5 (20425)	23.97	23.27	22.13
	1RB-Low (0)	846.5 (20625)	23.83	23.09	22.10
		836.5 (20525)	23.85	23.20	22.13
		826.5 (20425)	23.87	23.13	22.19
	12RB-High (13)	846.5 (20625)	22.92	21.96	20.98
		836.5 (20525)	22.85	21.88	20.92
		826.5 (20425)	22.92	21.90	20.95

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	12RB-Middle (6)	846.5 (20625)	22.98	22.01	21.04
		836.5 (20525)	22.93	21.97	21.02
		826.5 (20425)	22.95	21.96	20.99
	12RB-Low (0)	846.5 (20625)	22.90	21.93	20.95
		836.5 (20525)	22.92	21.95	20.99
		826.5 (20425)	22.85	21.86	20.91
	25RB (0)	846.5 (20625)	22.94	21.98	20.99
		836.5 (20525)	22.92	21.93	20.97
		826.5 (20425)	22.90	21.92	20.94
10MHz	1RB-High (49)	844 (20600)	23.87	23.07	22.10
		836.5 (20525)	23.88	23.16	22.18
		829 (20450)	23.91	23.17	22.15
	1RB-Middle (24)	844 (20600)	23.92	23.20	22.17
		836.5 (20525)	24.01	23.24	22.20
		829 (20450)	23.97	23.19	22.22
	1RB-Low (0)	844 (20600)	23.90	23.32	22.12
		836.5 (20525)	23.96	23.31	22.11
		829 (20450)	23.98	23.30	22.19
	25RB-High (25)	844 (20600)	22.90	21.92	20.95
		836.5 (20525)	22.87	21.90	20.92
		829 (20450)	22.87	21.89	20.91
	25RB-Middle (12)	844 (20600)	22.98	22.02	21.02
		836.5 (20525)	22.99	21.99	21.01
		829 (20450)	22.94	21.99	20.98
	25RB-Low (0)	844 (20600)	22.82	21.83	20.86
		836.5 (20525)	22.96	22.00	21.03
		829 (20450)	22.84	21.86	20.85
	50RB (0)	844 (20600)	22.89	21.91	20.93
		836.5 (20525)	22.94	21.96	20.98
		829 (20450)	22.86	21.90	20.89

LTE Band7 ANT1 sensor on

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2567.5 (21425)	8.84	9.07	9.07
		2535 (21100)	8.97	9.37	9.22
		2502.5 (20775)	9.13	9.47	9.33
	1RB-Middle (12)	2567.5 (21425)	8.97	9.22	9.18
		2535 (21100)	9.09	9.50	9.32
		2502.5 (20775)	9.28	9.62	9.51
	1RB-Low (0)	2567.5 (21425)	8.86	9.20	9.08

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		2535 (21100)	9.02	9.40	9.29
		2502.5 (20775)	9.21	9.52	9.39
	12RB-High (13)	2567.5 (21425)	8.88	8.91	8.94
		2535 (21100)	9.04	9.05	9.10
		2502.5 (20775)	9.22	9.26	9.28
	12RB-Middle (6)	2567.5 (21425)	9.00	8.98	9.06
		2535 (21100)	9.09	9.10	9.16
		2502.5 (20775)	9.28	9.31	9.34
	12RB-Low (0)	2567.5 (21425)	8.95	8.95	9.00
		2535 (21100)	9.04	9.08	9.13
		2502.5 (20775)	9.23	9.21	9.27
	25RB (0)	2567.5 (21425)	8.94	8.98	8.97
		2535 (21100)	9.08	9.10	9.12
		2502.5 (20775)	9.23	9.28	9.28
10MHz	1RB-High (49)	2565 (21400)	8.92	9.25	9.17
		2535 (21100)	9.01	9.38	9.23
		2505 (20800)	9.20	9.48	9.41
	1RB-Middle (24)	2565 (21400)	9.00	9.35	9.16
		2535 (21100)	9.11	9.47	9.33
		2505 (20800)	9.24	9.49	9.41
	1RB-Low (0)	2565 (21400)	8.94	9.32	9.18
		2535 (21100)	9.15	9.49	9.37
		2505 (20800)	9.27	9.65	9.48
	25RB-High (25)	2565 (21400)	8.86	8.95	8.95
		2535 (21100)	9.02	9.08	9.09
		2505 (20800)	9.22	9.28	9.28
	25RB-Middle (12)	2565 (21400)	8.96	9.00	9.03
		2535 (21100)	9.07	9.12	9.16
		2505 (20800)	9.25	9.30	9.32
	25RB-Low (0)	2565 (21400)	8.92	8.98	8.99
		2535 (21100)	9.07	9.13	9.14
		2505 (20800)	9.19	9.24	9.26
	50RB (0)	2565 (21400)	8.93	8.93	8.99
		2535 (21100)	9.08	9.11	9.13
		2505 (20800)	9.21	9.27	9.28
15MHz	1RB-High (74)	2562.5 (21375)	8.86	9.10	9.08
		2535 (21100)	8.96	9.25	9.09
		2507.5 (20825)	9.14	9.39	9.31
	1RB-Middle (37)	2562.5 (21375)	8.97	9.22	9.17
		2535 (21100)	9.09	9.41	9.33

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		2507.5 (20825)	9.24	9.49	9.47
	1RB-Low (0)	2562.5 (21375)	8.88	9.27	9.05
		2535 (21100)	9.08	9.30	9.28
		2507.5 (20825)	9.18	9.44	9.38
	36RB-High (38)	2562.5 (21375)	8.87	8.89	8.93
		2535 (21100)	9.00	9.01	9.04
		2507.5 (20825)	9.18	9.20	9.25
	36RB-Middle (19)	2562.5 (21375)	8.92	8.91	9.00
		2535 (21100)	9.08	9.10	9.15
		2507.5 (20825)	9.20	9.22	9.24
	36RB-Low (0)	2562.5 (21375)	8.88	8.88	8.95
		2535 (21100)	9.08	9.10	9.14
		2507.5 (20825)	9.13	9.15	9.19
	75RB (0)	2562.5 (21375)	8.89	8.90	8.90
		2535 (21100)	9.05	9.07	9.08
		2507.5 (20825)	9.17	9.17	9.17
20MHz	1RB-High (99)	2560 (21350)	8.76	8.98	8.97
		2535 (21100)	8.85	9.09	9.07
		2510 (20850)	9.04	9.41	9.30
	1RB-Middle (50)	2560 (21350)	8.95	9.25	9.16
		2535 (21100)	9.21	9.43	9.34
		2510 (20850)	9.20	9.60	9.54
	1RB-Low (0)	2560 (21350)	8.85	9.20	9.02
		2535 (21100)	8.99	9.26	9.19
		2510 (20850)	9.10	9.44	9.35
	50RB-High (50)	2560 (21350)	8.83	8.84	8.85
		2535 (21100)	9.00	9.01	9.04
		2510 (20850)	9.15	9.19	9.16
	50RB-Middle (25)	2560 (21350)	9.07	8.98	9.00
		2535 (21100)	9.23	9.14	9.14
		2510 (20850)	9.18	9.22	9.27
	50RB-Low (0)	2560 (21350)	8.88	8.93	8.94
		2535 (21100)	9.07	9.09	9.11
		2510 (20850)	9.08	9.09	9.11
	100RB (0)	2560 (21350)	9.06	8.86	8.86
		2535 (21100)	9.12	8.99	9.03
		2510 (20850)	9.11	9.10	9.11

LTE Band7 ANT1 sensor off

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM

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5MHz	1RB-High (24)	2567.5 (21425)	23.70	22.94	22.00
		2535 (21100)	23.72	22.96	22.01
		2502.5 (20775)	23.92	23.22	22.13
	1RB-Middle (12)	2567.5 (21425)	23.81	23.02	22.00
		2535 (21100)	23.87	23.14	22.15
		2502.5 (20775)	24.12	23.34	22.39
	1RB-Low (0)	2567.5 (21425)	23.71	22.92	21.92
		2535 (21100)	23.79	23.06	22.02
		2502.5 (20775)	24.04	23.31	22.27
	12RB-High (13)	2567.5 (21425)	22.78	21.86	20.88
		2535 (21100)	22.83	21.92	20.94
		2502.5 (20775)	23.04	22.09	21.13
	12RB-Middle (6)	2567.5 (21425)	22.87	21.93	21.00
		2535 (21100)	22.87	21.94	21.01
		2502.5 (20775)	23.09	22.15	21.17
	12RB-Low (0)	2567.5 (21425)	22.82	21.92	20.90
		2535 (21100)	22.85	21.91	20.92
		2502.5 (20775)	23.06	22.09	21.12
	25RB (0)	2567.5 (21425)	22.86	21.91	20.93
		2535 (21100)	22.89	21.96	20.97
		2502.5 (20775)	23.08	22.15	21.14
10MHz	1RB-High (49)	2565 (21400)	23.79	23.08	22.08
		2535 (21100)	23.81	23.09	22.14
		2505 (20800)	24.01	23.25	22.28
	1RB-Middle (24)	2565 (21400)	23.85	22.98	22.07
		2535 (21100)	23.89	23.20	22.15
		2505 (20800)	24.08	23.31	22.29
	1RB-Low (0)	2565 (21400)	23.80	23.00	22.03
		2535 (21100)	23.91	23.16	22.23
		2505 (20800)	24.08	23.37	22.37
	25RB-High (25)	2565 (21400)	22.79	21.89	20.91
		2535 (21100)	22.87	21.95	20.96
		2505 (20800)	23.05	22.12	21.12
	25RB-Middle (12)	2565 (21400)	22.87	21.98	20.93
		2535 (21100)	22.91	21.97	21.02
		2505 (20800)	23.10	22.16	21.17
	25RB-Low (0)	2565 (21400)	22.88	21.95	20.97
		2535 (21100)	22.92	21.97	21.01
		2505 (20800)	23.04	22.09	21.09
	50RB (0)	2565 (21400)	22.88	21.92	20.94
		2535 (21100)	22.92	21.96	21.00

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		2505 (20800)	23.08	22.10	21.12
15MHz	1RB-High (74)	2562.5 (21375)	23.69	22.92	21.99
		2535 (21100)	23.74	23.01	21.96
		2507.5 (20825)	23.93	23.23	22.21
	1RB-Middle (37)	2562.5 (21375)	23.84	22.97	22.09
		2535 (21100)	23.90	23.12	22.09
		2507.5 (20825)	24.07	23.37	22.27
	1RB-Low (0)	2562.5 (21375)	23.74	22.95	22.02
		2535 (21100)	23.89	23.19	22.21
		2507.5 (20825)	24.04	23.23	22.27
	36RB-High (38)	2562.5 (21375)	22.78	21.84	20.87
		2535 (21100)	22.82	21.90	20.95
		2507.5 (20825)	23.01	22.05	21.09
	36RB-Middle (19)	2562.5 (21375)	22.82	21.91	20.94
		2535 (21100)	22.94	21.99	21.04
		2507.5 (20825)	23.06	22.07	21.13
	36RB-Low (0)	2562.5 (21375)	22.80	21.83	20.89
		2535 (21100)	22.90	21.98	21.00
		2507.5 (20825)	23.00	22.03	21.07
	75RB (0)	2562.5 (21375)	22.82	21.86	20.89
		2535 (21100)	22.91	21.94	20.95
		2507.5 (20825)	23.02	22.04	21.05
20MHz	1RB-High (99)	2560 (21350)	23.62	22.79	21.89
		2535 (21100)	23.64	22.94	21.88
		2510 (20850)	23.84	23.12	22.10
	1RB-Middle (50)	2560 (21350)	23.82	23.02	22.05
		2535 (21100)	24.07	23.12	22.15
		2510 (20850)	24.02	23.30	22.25
	1RB-Low (0)	2560 (21350)	23.66	22.97	22.00
		2535 (21100)	23.82	23.06	22.04
		2510 (20850)	23.94	23.22	22.21
	50RB-High (50)	2560 (21350)	22.72	21.81	20.80
		2535 (21100)	22.85	21.88	20.89
		2510 (20850)	22.99	22.04	21.05
	50RB-Middle (25)	2560 (21350)	22.96	21.94	20.94
		2535 (21100)	23.05	22.03	21.02
		2510 (20850)	23.03	22.15	21.16
	50RB-Low (0)	2560 (21350)	22.77	21.84	20.84
		2535 (21100)	22.92	21.95	20.99
		2510 (20850)	22.96	21.98	21.00

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	100RB (0)	2560 (21350)	22.93	21.79	20.80
		2535 (21100)	22.97	21.91	20.95
		2510 (20850)	22.95	21.99	21.00

LTE Band12 ANT2 sensor on

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	715.3 (23173)	13.58	14.08	14.04
		707.5 (23095)	13.57	14.05	14.03
		699.7 (23017)	13.65	13.98	14.02
	1RB-Middle (3)	715.3 (23173)	13.65	14.19	14.11
		707.5 (23095)	13.67	14.08	14.06
		699.7 (23017)	13.77	14.04	14.17
	1RB-Low (0)	715.3 (23173)	13.59	13.95	14.06
		707.5 (23095)	13.58	14.12	14.10
		699.7 (23017)	13.72	14.02	14.16
	3RB-High (3)	715.3 (23173)	13.72	13.82	14.03
		707.5 (23095)	13.70	13.83	14.03
		699.7 (23017)	13.80	13.84	14.06
	3RB-Middle (1)	715.3 (23173)	13.77	13.78	14.05
		707.5 (23095)	13.75	13.79	14.05
		699.7 (23017)	13.82	13.89	14.06
	3RB-Low (0)	715.3 (23173)	13.72	13.84	14.04
		707.5 (23095)	13.71	13.82	14.03
		699.7 (23017)	13.81	13.89	14.06
	6RB (0)	715.3 (23173)	13.78	13.92	13.91
		707.5 (23095)	13.77	13.97	13.92
		699.7 (23017)	13.85	14.05	13.96
3MHz	1RB-High (14)	714.5 (23165)	13.50	13.93	13.84
		707.5 (23095)	13.48	13.91	13.78
		700.5 (23025)	13.54	13.88	13.96
	1RB-Middle (7)	714.5 (23165)	13.62	14.11	14.03
		707.5 (23095)	13.58	14.06	13.95
		700.5 (23025)	13.69	13.99	14.11
	1RB-Low (0)	714.5 (23165)	13.50	13.93	13.84
		707.5 (23095)	13.47	13.87	13.98
		700.5 (23025)	13.62	13.96	14.05
	8RB-High (7)	714.5 (23165)	13.72	13.83	13.84
		707.5 (23095)	13.72	13.84	13.86
		700.5 (23025)	13.76	13.89	13.90
	8RB-Middle (4)	714.5 (23165)	13.77	13.90	13.91

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		707.5 (23095)	13.77	13.92	13.92
		700.5 (23025)	13.84	13.95	13.96
	8RB-Low (0)	714.5 (23165)	13.72	13.86	13.87
		707.5 (23095)	13.70	13.84	13.86
		700.5 (23025)	13.76	13.91	13.91
	15RB (0)	714.5 (23165)	13.68	13.75	13.77
		707.5 (23095)	13.67	13.75	13.77
		700.5 (23025)	13.73	13.84	13.83
5MHz	1RB-High (24)	713.5 (23155)	13.73	14.13	13.98
		707.5 (23095)	13.72	14.15	13.95
		701.5 (23035)	13.77	14.22	14.10
	1RB-Middle (12)	713.5 (23155)	13.88	14.21	14.13
		707.5 (23095)	13.85	14.35	14.25
		701.5 (23035)	13.95	14.38	14.26
	1RB-Low (0)	713.5 (23155)	13.75	14.11	14.00
		707.5 (23095)	13.81	14.11	14.05
		701.5 (23035)	13.87	14.30	14.20
	12RB-High (13)	713.5 (23155)	13.80	13.84	13.92
		707.5 (23095)	13.82	13.86	13.96
		701.5 (23035)	13.88	13.92	13.97
	12RB-Middle (6)	713.5 (23155)	13.88	13.94	13.99
		707.5 (23095)	13.86	13.90	13.97
		701.5 (23035)	13.91	14.01	14.05
	12RB-Low (0)	713.5 (23155)	13.86	13.92	13.99
		707.5 (23095)	13.79	13.83	13.90
		701.5 (23035)	13.81	13.85	13.89
	25RB (0)	713.5 (23155)	13.82	13.90	13.94
		707.5 (23095)	13.79	13.89	13.92
		701.5 (23035)	13.84	13.89	13.92
10MHz	1RB-High (49)	711 (23130)	13.84	14.30	14.15
		707.5 (23095)	13.80	14.29	14.10
		704 (23060)	13.81	14.27	14.09
	1RB-Middle (24)	711 (23130)	13.88	14.33	14.15
		707.5 (23095)	13.95	14.33	14.19
		704 (23060)	13.93	14.39	14.14
	1RB-Low (0)	711 (23130)	13.87	14.36	14.19
		707.5 (23095)	13.94	14.22	14.21
		704 (23060)	13.94	14.32	14.21
	25RB-High (25)	711 (23130)	13.69	13.77	13.79
		707.5 (23095)	13.75	13.82	13.86

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		704 (23060)	13.86	13.96	13.98
	25RB-Middle (12)	711 (23130)	13.83	13.92	13.95
		707.5 (23095)	13.92	13.93	13.95
		704 (23060)	13.90	13.98	13.99
	25RB-Low (0)	711 (23130)	13.69	13.79	13.80
		707.5 (23095)	13.78	13.88	13.87
		704 (23060)	13.81	13.86	13.88
	50RB (0)	711 (23130)	13.69	13.77	13.80
		707.5 (23095)	13.75	13.83	13.86
		704 (23060)	13.88	13.91	13.97

LTE Band12 ANT2 sensor off

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	715.3 (23173)	23.50	22.84	21.83
		707.5 (23095)	23.52	22.84	21.91
		699.7 (23017)	23.56	22.89	21.87
	1RB-Middle (3)	715.3 (23173)	23.61	22.92	21.85
		707.5 (23095)	23.59	23.00	21.93
		699.7 (23017)	23.68	22.96	22.02
	1RB-Low (0)	715.3 (23173)	23.55	22.82	21.84
		707.5 (23095)	23.55	22.92	21.97
		699.7 (23017)	23.64	22.94	22.00
	3RB-High (3)	715.3 (23173)	23.65	22.67	21.89
		707.5 (23095)	23.66	22.64	21.90
		699.7 (23017)	23.73	22.76	21.93
	3RB-Middle (1)	715.3 (23173)	23.66	22.65	21.90
		707.5 (23095)	23.65	22.73	21.98
		699.7 (23017)	23.76	22.74	21.97
	3RB-Low (0)	715.3 (23173)	23.66	22.65	21.89
		707.5 (23095)	23.66	22.72	21.95
		699.7 (23017)	23.72	22.66	21.95
	6RB (0)	715.3 (23173)	22.73	21.88	20.81
		707.5 (23095)	22.77	21.86	20.84
		699.7 (23017)	22.80	21.93	20.83
3MHz	1RB-High (14)	714.5 (23165)	23.43	22.77	21.77
		707.5 (23095)	23.44	22.79	21.70
		700.5 (23025)	23.48	22.76	21.85
	1RB-Middle (7)	714.5 (23165)	23.54	22.85	21.89
		707.5 (23095)	23.49	22.91	21.87
		700.5 (23025)	23.59	22.97	21.95

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	1RB-Low (0)	714.5 (23165)	23.44	22.79	21.72
		707.5 (23095)	23.41	22.78	21.75
		700.5 (23025)	23.51	22.90	21.92
	8RB-High (7)	714.5 (23165)	22.67	21.73	20.75
		707.5 (23095)	22.66	21.78	20.74
		700.5 (23025)	22.69	21.79	20.78
	8RB-Middle (4)	714.5 (23165)	22.72	21.78	20.78
		707.5 (23095)	22.72	21.83	20.79
		700.5 (23025)	22.75	21.83	20.85
	8RB-Low (0)	714.5 (23165)	22.65	21.78	20.75
		707.5 (23095)	22.61	21.76	20.75
		700.5 (23025)	22.70	21.77	20.80
	15RB (0)	714.5 (23165)	22.65	21.71	20.68
		707.5 (23095)	22.62	21.69	20.69
		700.5 (23025)	22.67	21.72	20.75
5MHz	1RB-High (24)	713.5 (23155)	23.65	22.84	21.95
		707.5 (23095)	23.65	22.98	21.94
		701.5 (23035)	23.68	23.07	21.89
	1RB-Middle (12)	713.5 (23155)	23.78	23.12	22.13
		707.5 (23095)	23.77	23.16	22.01
		701.5 (23035)	23.85	23.23	22.05
	1RB-Low (0)	713.5 (23155)	23.68	22.99	21.99
		707.5 (23095)	23.75	23.05	21.99
		701.5 (23035)	23.79	23.11	22.00
	12RB-High (13)	713.5 (23155)	22.75	21.76	20.82
		707.5 (23095)	22.75	21.80	20.82
		701.5 (23035)	22.79	21.80	20.89
	12RB-Middle (6)	713.5 (23155)	22.81	21.83	20.90
		707.5 (23095)	22.81	21.84	20.88
		701.5 (23035)	22.83	21.88	20.94
	12RB-Low (0)	713.5 (23155)	22.82	21.82	20.87
		707.5 (23095)	22.72	21.74	20.79
		701.5 (23035)	22.73	21.78	20.82
	25RB (0)	713.5 (23155)	22.80	21.84	20.84
		707.5 (23095)	22.72	21.79	20.81
		701.5 (23035)	22.78	21.81	20.83
10MHz	1RB-High (49)	711 (23130)	23.74	22.94	21.97
		707.5 (23095)	23.76	23.08	22.01
		704 (23060)	23.76	23.00	22.04
	1RB-Middle (24)	711 (23130)	23.82	23.07	22.12

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		707.5 (23095)	23.87	23.11	22.08
		704 (23060)	23.86	23.18	22.11
	1RB-Low (0)	711 (23130)	23.84	23.13	22.10
		707.5 (23095)	23.82	23.18	22.04
		704 (23060)	23.83	23.23	22.19
	25RB-High (25)	711 (23130)	22.69	21.72	20.73
		707.5 (23095)	22.69	21.73	20.75
		704 (23060)	22.84	21.87	20.90
	25RB-Middle (12)	711 (23130)	22.80	21.85	20.85
		707.5 (23095)	22.85	21.86	20.87
		704 (23060)	22.84	21.87	20.89
	25RB-Low (0)	711 (23130)	22.70	21.75	20.74
		707.5 (23095)	22.71	21.75	20.78
		704 (23060)	22.77	21.81	20.83
	50RB (0)	711 (23130)	22.72	21.73	20.73
		707.5 (23095)	22.72	21.74	20.75
		704 (23060)	22.83	21.84	20.85

LTE Band26 ANT2 sensor on

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (27033)	14.67	15.00	15.05
		831.5 (26865)	14.67	15.04	15.07
		814.7 (26697)	14.72	15.04	15.15
	1RB-Middle (3)	848.3 (27033)	14.78	15.14	15.18
		831.5 (26865)	14.76	15.13	15.17
		814.7 (26697)	14.81	15.15	15.18
	1RB-Low (0)	848.3 (27033)	14.68	14.95	15.10
		831.5 (26865)	14.68	15.08	15.09
		814.7 (26697)	14.74	15.07	15.10
	3RB-High (3)	848.3 (27033)	14.82	14.88	15.06
		831.5 (26865)	14.81	14.79	15.06
		814.7 (26697)	14.87	14.93	15.09
	3RB-Middle (1)	848.3 (27033)	14.81	14.84	15.08
		831.5 (26865)	14.81	14.85	15.06
		814.7 (26697)	14.86	14.94	15.11
	3RB-Low (0)	848.3 (27033)	14.81	14.83	15.04
		831.5 (26865)	14.80	14.82	15.04
		814.7 (26697)	14.86	14.90	15.10
	6RB (0)	848.3 (27033)	14.90	15.02	14.96
		831.5 (26865)	14.89	15.05	14.97
		814.7 (26697)	14.92	15.09	15.01

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3MHz	1RB-High (14)	847.5 (27025)	14.91	15.19	15.08
		831.5 (26865)	14.87	14.99	15.10
		815.5 (26705)	14.93	15.25	15.04
	1RB-Middle (7)	847.5 (27025)	14.87	15.27	15.15
		831.5 (26865)	14.92	15.31	15.27
		815.5 (26705)	14.89	15.36	15.14
	1RB-Low (0)	847.5 (27025)	14.84	15.27	15.02
		831.5 (26865)	14.78	15.11	15.14
		815.5 (26705)	14.83	15.37	15.10
	8RB-High (7)	847.5 (27025)	14.94	14.92	15.10
		831.5 (26865)	14.85	14.92	14.87
		815.5 (26705)	14.82	14.90	14.99
	8RB-Middle (4)	847.5 (27025)	14.94	15.07	15.06
		831.5 (26865)	14.87	14.90	15.12
		815.5 (26705)	14.97	15.01	15.07
	8RB-Low (0)	847.5 (27025)	14.95	14.88	15.06
		831.5 (26865)	14.90	14.93	14.88
		815.5 (26705)	14.99	14.84	14.91
	15RB (0)	847.5 (27025)	14.89	14.89	15.02
		831.5 (26865)	14.97	15.07	15.04
		815.5 (26705)	14.81	14.91	15.00
5MHz	1RB-High (24)	846.5 (27015)	14.87	15.21	15.12
		831.5 (26865)	14.86	15.08	15.00
		816.5 (26715)	14.86	15.30	15.14
	1RB-Middle (12)	846.5 (27015)	14.95	15.32	15.22
		831.5 (26865)	14.96	15.22	15.18
		816.5 (26715)	14.99	15.33	15.24
	1RB-Low (0)	846.5 (27015)	14.82	15.18	15.03
		831.5 (26865)	14.85	15.14	15.11
		816.5 (26715)	14.90	15.27	15.13
	12RB-High (13)	846.5 (27015)	14.92	14.94	15.01
		831.5 (26865)	14.87	14.88	14.95
		816.5 (26715)	14.88	14.93	14.95
	12RB-Middle (6)	846.5 (27015)	14.94	14.97	15.04
		831.5 (26865)	14.96	15.00	15.03
		816.5 (26715)	14.96	15.00	15.02
	12RB-Low (0)	846.5 (27015)	14.90	14.90	14.98
		831.5 (26865)	14.89	14.92	14.96
		816.5 (26715)	14.90	14.94	15.00
	25RB (0)	846.5 (27015)	14.93	14.98	15.00

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		831.5 (26865)	14.89	14.97	14.97
		816.5 (26715)	14.90	14.95	14.95
10MHz	1RB-High (49)	844 (26990)	14.95	15.26	15.21
		831.5 (26865)	14.93	15.23	15.18
		820 (26750)	14.99	15.33	15.16
	1RB-Middle (24)	844 (26990)	14.99	15.32	15.21
		831.5 (26865)	15.02	15.39	15.25
		820 (26750)	15.04	15.36	15.25
	1RB-Low (0)	844 (26990)	14.98	15.39	15.14
		831.5 (26865)	14.97	15.40	15.23
		820 (26750)	15.01	15.40	15.18
	25RB-High (25)	844 (26990)	14.88	14.94	14.95
		831.5 (26865)	14.80	14.85	14.86
		820 (26750)	14.94	15.00	15.03
	25RB-Middle (12)	844 (26990)	14.95	15.01	15.02
		831.5 (26865)	14.94	15.01	15.01
		820 (26750)	14.99	15.07	15.08
	25RB-Low (0)	844 (26990)	14.85	14.92	14.91
		831.5 (26865)	14.86	14.94	14.94
		820 (26750)	14.95	14.99	15.01
	50RB (0)	844 (26990)	14.88	14.90	14.92
		831.5 (26865)	14.86	14.92	14.92
		820 (26750)	14.97	15.02	15.03
15MHz	1RB-High (74)	841.5 (26965)	14.93	15.23	15.15
		831.5 (26865)	14.93	15.31	15.14
		822.5 (26775)	14.92	15.31	15.16
	1RB-Middle (37)	841.5 (26965)	14.99	15.38	15.31
		831.5 (26865)	15.01	15.35	15.25
		822.5 (26775)	14.99	15.43	15.26
	1RB-Low (0)	841.5 (26965)	14.93	15.28	15.16
		831.5 (26865)	14.93	15.31	15.17
		822.5 (26775)	14.96	15.26	15.21
	36RB-High (38)	841.5 (26965)	14.93	14.97	15.03
		831.5 (26865)	14.84	14.90	14.90
		822.5 (26775)	15.01	15.03	15.07
	36RB-Middle (19)	841.5 (26965)	14.95	15.01	15.04
		831.5 (26865)	15.11	14.96	15.01
		822.5 (26775)	14.96	15.03	15.05
	36RB-Low (0)	841.5 (26965)	14.97	15.01	15.06
		831.5 (26865)	14.88	14.91	14.96

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		822.5 (26775)	14.97	14.99	15.04
	75RB (0)	841.5 (26965)	14.96	14.99	15.00
		831.5 (26865)	14.86	14.91	14.90
		822.5 (26775)	15.00	15.02	15.04

LTE Band26 ANT2 sensor off

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3 (27033)	23.70	22.86	21.99
		831.5 (26865)	23.70	22.85	21.96
		814.7 (26697)	23.76	23.06	22.04
	1RB-Middle (3)	848.3 (27033)	23.76	23.03	22.07
		831.5 (26865)	23.77	22.88	22.11
		814.7 (26697)	23.79	23.09	22.12
	1RB-Low (0)	848.3 (27033)	23.68	22.95	22.00
		831.5 (26865)	23.70	22.87	22.02
		814.7 (26697)	23.76	23.08	22.04
	3RB-High (3)	848.3 (27033)	23.81	22.81	21.98
		831.5 (26865)	23.81	22.75	22.05
		814.7 (26697)	23.87	22.77	22.07
	3RB-Middle (1)	848.3 (27033)	23.83	22.76	22.01
		831.5 (26865)	23.85	22.84	22.04
		814.7 (26697)	23.90	22.83	22.08
	3RB-Low (0)	848.3 (27033)	23.78	22.85	22.00
		831.5 (26865)	23.82	22.80	22.00
		814.7 (26697)	23.87	22.88	22.05
	6RB (0)	848.3 (27033)	22.92	22.03	20.91
		831.5 (26865)	22.92	22.05	20.93
		814.7 (26697)	22.96	22.03	21.03
3MHz	1RB-High (14)	847.5 (27025)	23.85	23.43	22.21
		831.5 (26865)	23.93	23.50	22.16
		815.5 (26705)	23.09	22.66	22.66
	1RB-Middle (7)	847.5 (27025)	24.40	23.60	22.00
		831.5 (26865)	23.50	22.75	22.01
		815.5 (26705)	24.45	23.27	22.41
	1RB-Low (0)	847.5 (27025)	23.03	22.78	22.21
		831.5 (26865)	23.23	23.34	22.46
		815.5 (26705)	23.01	23.27	22.21
	8RB-High (7)	847.5 (27025)	23.34	22.60	21.90
		831.5 (26865)	23.76	22.12	21.78
		815.5 (26705)	22.55	22.52	21.29

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	8RB-Middle (4)	847.5 (27025)	23.45	22.71	21.69
		831.5 (26865)	23.79	22.25	21.35
		815.5 (26705)	23.43	22.10	21.37
	8RB-Low (0)	847.5 (27025)	23.34	22.94	21.64
		831.5 (26865)	23.30	22.85	21.18
		815.5 (26705)	23.43	22.60	21.58
	15RB (0)	847.5 (27025)	22.39	22.42	20.16
		831.5 (26865)	22.90	22.61	20.35
		815.5 (26705)	22.87	22.38	20.96
5MHz	1RB-High (24)	846.5 (27015)	23.92	23.43	21.25
		831.5 (26865)	23.43	22.52	22.57
		816.5 (26715)	23.46	22.40	22.37
	1RB-Middle (12)	846.5 (27015)	23.55	22.91	21.90
		831.5 (26865)	23.78	22.72	21.81
		816.5 (26715)	23.83	23.35	21.67
	1RB-Low (0)	846.5 (27015)	23.41	23.11	21.84
		831.5 (26865)	23.62	23.55	22.46
		816.5 (26715)	24.37	22.46	21.84
	12RB-High (13)	846.5 (27015)	23.05	22.75	21.42
		831.5 (26865)	23.50	22.18	21.87
		816.5 (26715)	23.60	22.08	21.87
	12RB-Middle (6)	846.5 (27015)	23.61	22.06	21.05
		831.5 (26865)	23.37	22.24	21.20
		816.5 (26715)	23.75	22.53	21.37
	12RB-Low (0)	846.5 (27015)	23.22	22.15	21.43
		831.5 (26865)	23.05	22.01	21.27
		816.5 (26715)	23.41	22.22	21.69
	25RB (0)	846.5 (27015)	22.15	22.68	20.42
		831.5 (26865)	22.89	22.05	20.21
		816.5 (26715)	23.05	21.39	20.86
10MHz	1RB-High (49)	844 (26990)	23.94	23.26	22.15
		831.5 (26865)	23.89	23.22	22.15
		820 (26750)	23.99	23.30	22.18
	1RB-Middle (24)	844 (26990)	23.94	23.26	22.18
		831.5 (26865)	23.98	23.23	22.17
		820 (26750)	24.03	23.26	22.18
	1RB-Low (0)	844 (26990)	23.94	23.24	22.17
		831.5 (26865)	23.96	23.17	22.16
		820 (26750)	24.00	23.23	22.19
	25RB-High (25)	844 (26990)	22.92	21.92	20.93

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		831.5 (26865)	22.82	21.82	20.85
		820 (26750)	23.04	22.06	21.04
	25RB-Middle (12)	844 (26990)	22.95	21.98	21.00
		831.5 (26865)	22.96	21.99	21.01
		820 (26750)	23.04	22.07	21.09
	25RB-Low (0)	844 (26990)	22.83	21.86	20.87
		831.5 (26865)	22.91	21.93	20.94
		820 (26750)	22.98	21.99	21.03
	50RB (0)	844 (26990)	22.88	21.90	20.93
		831.5 (26865)	22.90	21.89	20.91
		820 (26750)	23.05	22.03	21.06
15MHz	1RB-High (74)	841.5 (26965)	23.87	23.24	22.13
		831.5 (26865)	23.83	23.19	22.07
		822.5 (26775)	23.88	23.16	22.08
	1RB-Middle (37)	841.5 (26965)	23.94	23.33	22.14
		831.5 (26865)	24.11	23.19	22.17
		822.5 (26775)	24.05	23.32	22.23
	1RB-Low (0)	841.5 (26965)	23.88	23.21	22.07
		831.5 (26865)	23.92	23.23	22.15
		822.5 (26775)	23.95	23.12	22.15
	36RB-High (38)	841.5 (26965)	22.94	21.95	20.98
		831.5 (26865)	22.84	21.84	20.89
		822.5 (26775)	23.01	22.00	21.07
	36RB-Middle (19)	841.5 (26965)	22.95	21.97	21.02
		831.5 (26865)	23.12	21.97	21.02
		822.5 (26775)	22.98	21.99	21.03
	36RB-Low (0)	841.5 (26965)	22.96	21.96	21.01
		831.5 (26865)	22.93	21.90	20.97
		822.5 (26775)	22.99	22.00	21.06
	75RB (0)	841.5 (26965)	22.96	21.96	20.97
		831.5 (26865)	22.89	21.89	20.91
		822.5 (26775)	23.01	22.03	21.01

LTE Band28 ANT2 sensor on

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
3MHz	1RB-High (14)	746.5 (27645)	13.40	13.70	13.78
		719.5 (27375)	13.40	13.80	13.77
		704.5 (27225)	13.53	13.85	14.01
	1RB-Middle (7)	746.5 (27645)	13.51	13.85	13.87
		719.5 (27375)	13.58	13.87	14.00

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		704.5 (27225)	13.66	14.05	14.14
	1RB-Low (0)	746.5 (27645)	13.33	13.75	13.78
		719.5 (27375)	13.48	13.88	13.94
		704.5 (27225)	13.54	13.82	13.96
	8RB-High (7)	746.5 (27645)	13.61	13.75	13.78
		719.5 (27375)	13.66	13.80	13.82
		704.5 (27225)	13.76	13.94	13.93
	8RB-Middle (4)	746.5 (27645)	13.71	13.86	13.82
		719.5 (27375)	13.75	13.91	13.92
		704.5 (27225)	13.85	13.98	14.00
	8RB-Low (0)	746.5 (27645)	13.63	13.77	13.75
		719.5 (27375)	13.68	13.84	13.86
		704.5 (27225)	13.71	13.92	13.88
	15RB (0)	746.5 (27645)	13.62	13.70	13.70
		719.5 (27375)	13.69	13.75	13.77
		704.5 (27225)	13.75	13.84	13.85
5MHz	1RB-High (24)	745.5 (27635)	13.62	14.01	13.91
		720.5 (27385)	13.67	14.14	14.01
		705.5 (27235)	13.79	14.09	14.05
	1RB-Middle (12)	745.5 (27635)	13.76	14.24	14.07
		720.5 (27385)	13.91	14.34	14.26
		705.5 (27235)	13.96	14.39	14.30
	1RB-Low (0)	745.5 (27635)	13.63	14.11	13.95
		720.5 (27385)	13.84	14.27	14.12
		705.5 (27235)	13.80	14.17	14.08
	12RB-High (13)	745.5 (27635)	13.70	13.76	13.82
		720.5 (27385)	13.82	13.90	13.97
		705.5 (27235)	13.84	13.93	13.98
	12RB-Middle (6)	745.5 (27635)	13.76	13.89	13.88
		720.5 (27385)	13.89	13.96	14.02
		705.5 (27235)	13.91	14.02	14.04
	12RB-Low (0)	745.5 (27635)	13.71	13.79	13.84
		720.5 (27385)	13.88	13.94	14.00
		705.5 (27235)	13.81	13.87	13.94
	25RB (0)	745.5 (27635)	13.74	13.83	13.83
		720.5 (27385)	13.86	13.94	13.93
		705.5 (27235)	13.81	13.91	13.92
10MHz	1RB-High (49)	743 (27610)	13.76	14.08	13.94
		723 (27410)	13.73	14.16	14.00
		708 (27260)	13.79	14.29	14.04

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	1RB-Middle (24)	743 (27610)	13.81	14.22	14.15
		723 (27410)	13.85	14.31	14.16
		708 (27260)	13.93	14.40	14.21
	1RB-Low (0)	743 (27610)	13.77	14.19	14.09
		723 (27410)	13.97	14.44	14.26
		708 (27260)	13.90	14.28	14.20
	25RB-High (25)	743 (27610)	13.69	13.77	13.79
		723 (27410)	13.86	13.94	13.96
		708 (27260)	13.89	13.98	14.00
	25RB-Middle (12)	743 (27610)	13.78	13.84	13.88
		723 (27410)	13.84	13.93	13.95
		708 (27260)	13.89	13.99	14.00
	25RB-Low (0)	743 (27610)	13.75	13.84	13.87
		723 (27410)	13.74	13.83	13.87
		708 (27260)	13.87	13.95	13.96
	50RB (0)	743 (27610)	13.75	13.78	13.82
		723 (27410)	13.84	13.87	13.90
		708 (27260)	13.88	13.95	13.97
15MHz	1RB-High (74)	740.5 (27585)	13.64	14.13	13.95
		725.5 (27435)	13.66	14.06	13.97
		710.5 (27285)	13.73	14.09	14.04
	1RB-Middle (37)	740.5 (27585)	13.81	14.32	14.06
		725.5 (27435)	13.82	14.27	14.20
		710.5 (27285)	13.90	14.31	14.16
	1RB-Low (0)	740.5 (27585)	13.67	14.06	14.05
		725.5 (27435)	13.93	14.25	14.29
		710.5 (27285)	13.88	14.38	14.21
	36RB-High (38)	740.5 (27585)	13.68	13.75	13.81
		725.5 (27435)	13.80	13.87	13.93
		710.5 (27285)	13.90	13.94	14.01
	36RB-Middle (19)	740.5 (27585)	13.77	13.86	13.90
		725.5 (27435)	13.80	13.86	13.94
		710.5 (27285)	13.86	13.92	14.01
	36RB-Low (0)	740.5 (27585)	13.75	13.82	13.87
		725.5 (27435)	13.75	13.84	13.90
		710.5 (27285)	13.86	13.94	14.00
	75RB (0)	740.5 (27585)	13.77	13.83	13.82
		725.5 (27435)	13.78	13.84	13.85
		710.5 (27285)	13.90	13.95	13.96
20MHz	1RB-High (99)	738 (27560)	13.57	13.99	13.85

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		728 (27460)	13.59	14.05	13.91
		713 (27310)	13.62	13.99	13.91
	1RB-Middle (50)	738 (27560)	13.79	14.27	14.05
		728 (27460)	13.86	14.27	14.19
		713 (27310)	13.84	14.34	14.16
	1RB-Low (0)	738 (27560)	13.65	14.15	13.95
		728 (27460)	13.85	14.34	14.17
		713 (27310)	13.85	14.32	14.07
	50RB-High (50)	738 (27560)	13.69	13.74	13.77
		728 (27460)	13.80	13.82	13.84
		713 (27310)	13.98	14.02	14.03
	50RB-Middle (25)	738 (27560)	13.82	13.85	13.87
		728 (27460)	13.99	13.90	13.89
		713 (27310)	13.89	13.92	13.96
	50RB-Low (0)	738 (27560)	13.74	13.77	13.81
		728 (27460)	13.69	13.72	13.76
		713 (27310)	13.82	13.86	13.89
	100RB (0)	738 (27560)	13.69	13.74	13.78
		728 (27460)	13.72	13.77	13.80
		713 (27310)	13.89	13.94	13.96

LTE Band28 ANT2 sensor off

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
3MHz	1RB-High (14)	746.5 (27645)	23.30	22.46	21.62
		719.5 (27375)	23.42	22.60	21.71
		704.5 (27225)	23.54	22.84	21.87
	1RB-Middle (7)	746.5 (27645)	23.46	22.59	21.71
		719.5 (27375)	23.52	22.83	21.90
		704.5 (27225)	23.64	22.85	22.03
	1RB-Low (0)	746.5 (27645)	23.28	22.59	21.57
		719.5 (27375)	23.44	22.56	21.78
		704.5 (27225)	23.47	22.76	21.73
	8RB-High (7)	746.5 (27645)	22.56	21.59	20.65
		719.5 (27375)	22.63	21.70	20.70
		704.5 (27225)	22.70	21.79	20.81
	8RB-Middle (4)	746.5 (27645)	22.63	21.71	20.74
		719.5 (27375)	22.71	21.77	20.79
		704.5 (27225)	22.80	21.86	20.86
	8RB-Low (0)	746.5 (27645)	22.55	21.65	20.64
		719.5 (27375)	22.62	21.69	20.74
		704.5 (27225)	22.70	21.81	20.78

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	15RB (0)	746.5 (27645)	22.56	21.56	20.62
		719.5 (27375)	22.65	21.64	20.68
		704.5 (27225)	22.74	21.77	20.75
5MHz	1RB-High (24)	745.5 (27635)	23.54	22.69	21.66
		720.5 (27385)	23.64	22.90	21.86
		705.5 (27235)	23.70	23.06	21.98
	1RB-Middle (12)	745.5 (27635)	23.71	22.93	21.91
		720.5 (27385)	23.86	23.13	22.17
		705.5 (27235)	23.89	23.25	22.18
	1RB-Low (0)	745.5 (27635)	23.62	22.96	21.84
		720.5 (27385)	23.81	23.10	22.06
		705.5 (27235)	23.73	23.05	21.94
	12RB-High (13)	745.5 (27635)	22.63	21.60	20.68
		720.5 (27385)	22.77	21.80	20.85
		705.5 (27235)	22.82	21.83	20.89
	12RB-Middle (6)	745.5 (27635)	22.72	21.73	20.79
		720.5 (27385)	22.84	21.84	20.90
		705.5 (27235)	22.88	21.89	20.94
	12RB-Low (0)	745.5 (27635)	22.67	21.67	20.71
		720.5 (27385)	22.78	21.78	20.85
		705.5 (27235)	22.83	21.84	20.86
	25RB (0)	745.5 (27635)	22.69	21.69	20.73
		720.5 (27385)	22.79	21.79	20.84
		705.5 (27235)	22.83	21.85	20.86
10MHz	1RB-High (49)	743 (27610)	23.63	22.73	21.76
		723 (27410)	23.67	22.90	21.92
		708 (27260)	23.72	23.07	22.00
	1RB-Middle (24)	743 (27610)	23.73	22.91	21.94
		723 (27410)	23.77	23.10	21.95
		708 (27260)	23.88	23.24	22.06
	1RB-Low (0)	743 (27610)	23.71	23.08	21.93
		723 (27410)	23.91	23.23	22.06
		708 (27260)	23.83	23.08	22.03
	25RB-High (25)	743 (27610)	22.64	21.65	20.69
		723 (27410)	22.80	21.81	20.86
		708 (27260)	22.86	21.87	20.90
	25RB-Middle (12)	743 (27610)	22.75	21.79	20.78
		723 (27410)	22.81	21.81	20.85
		708 (27260)	22.83	21.88	20.91
	25RB-Low (0)	743 (27610)	22.71	21.77	20.78

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		723 (27410)	22.71	21.73	20.74
		708 (27260)	22.81	21.87	20.87
	50RB (0)	743 (27610)	22.69	21.67	20.73
		723 (27410)	22.77	21.77	20.81
		708 (27260)	22.85	21.87	20.87
15MHz	1RB-High (74)	740.5 (27585)	23.58	22.76	21.70
		725.5 (27435)	23.56	22.77	21.79
		710.5 (27285)	23.66	22.87	21.82
	1RB-Middle (37)	740.5 (27585)	23.76	23.02	22.00
		725.5 (27435)	23.77	23.06	21.96
		710.5 (27285)	23.83	23.04	22.05
	1RB-Low (0)	740.5 (27585)	23.65	22.88	21.82
		725.5 (27435)	23.85	23.05	22.05
		710.5 (27285)	23.80	23.08	22.04
	36RB-High (38)	740.5 (27585)	22.65	21.66	20.69
		725.5 (27435)	22.78	21.79	20.82
		710.5 (27285)	22.83	21.86	20.93
	36RB-Middle (19)	740.5 (27585)	22.75	21.79	20.81
		725.5 (27435)	22.77	21.77	20.81
		710.5 (27285)	22.83	21.84	20.91
	36RB-Low (0)	740.5 (27585)	22.74	21.79	20.81
		725.5 (27435)	22.71	21.72	20.77
		710.5 (27285)	22.82	21.83	20.89
	75RB (0)	740.5 (27585)	22.75	21.75	20.77
		725.5 (27435)	22.74	21.75	20.77
		710.5 (27285)	22.85	21.85	20.87
20MHz	1RB-High (99)	738 (27560)	23.48	22.72	21.69
		728 (27460)	23.55	22.72	21.75
		713 (27310)	23.54	22.72	21.78
	1RB-Middle (50)	738 (27560)	23.74	23.04	22.00
		728 (27460)	23.81	22.92	22.01
		713 (27310)	23.78	22.97	21.93
	1RB-Low (0)	738 (27560)	23.61	22.77	21.84
		728 (27460)	23.78	23.04	22.01
		713 (27310)	23.76	23.10	22.00
	50RB-High (50)	738 (27560)	22.66	21.68	20.67
		728 (27460)	22.77	21.74	20.77
		713 (27310)	22.74	21.87	20.93
	50RB-Middle (25)	738 (27560)	22.80	21.80	20.82
		728 (27460)	22.85	21.82	20.84

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		713 (27310)	22.84	21.83	20.87
	50RB-Low (0)	738 (27560)	22.76	21.72	20.75
		728 (27460)	22.66	21.62	20.68
		713 (27310)	22.77	21.76	20.80
	100RB (0)	738 (27560)	22.70	21.70	20.72
		728 (27460)	22.69	21.68	20.72
		713 (27310)	22.81	21.81	20.85

LTE Band41 ANT2 sensor on

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	10.54	10.82	10.56
		2640.3(41093)	10.42	10.70	10.43
		2593 (40620)	10.40	10.70	10.44
		2545.8(40148)	10.30	10.58	10.30
		2498.5 (39675)	10.52	10.80	10.53
	1RB-Middle (12)	2687.5 (41565)	10.68	10.94	10.71
		2640.3(41093)	10.59	10.84	10.61
		2593 (40620)	10.55	10.80	10.57
		2545.8(40148)	10.45	10.72	10.50
		2498.5 (39675)	10.66	10.92	10.67
	1RB-Low (0)	2687.5 (41565)	10.57	10.83	10.58
		2640.3(41093)	10.45	10.71	10.47
		2593 (40620)	10.42	10.66	10.42
		2545.8(40148)	10.35	10.62	10.34
		2498.5 (39675)	10.49	10.72	10.48
	12RB-High (13)	2687.5 (41565)	10.56	10.59	10.67
		2640.3(41093)	10.43	10.46	10.54
		2593 (40620)	10.40	10.46	10.53
		2545.8(40148)	10.31	10.38	10.47
		2498.5 (39675)	10.53	10.57	10.63
	12RB-Middle (6)	2687.5 (41565)	10.62	10.65	10.72
		2640.3(41093)	10.49	10.53	10.59
		2593 (40620)	10.47	10.51	10.59
		2545.8(40148)	10.38	10.43	10.51
		2498.5 (39675)	10.57	10.59	10.67
	12RB-Low (0)	2687.5 (41565)	10.57	10.60	10.68
		2640.3(41093)	10.47	10.51	10.56
		2593 (40620)	10.40	10.46	10.51
		2545.8(40148)	10.31	10.37	10.43
		2498.5 (39675)	10.45	10.51	10.56
	25RB (0)	2687.5 (41565)	10.58	10.67	10.71

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		2640.3(41093)	10.47	10.53	10.59
		2593 (40620)	10.44	10.52	10.58
		2545.8(40148)	10.36	10.42	10.48
		2498.5 (39675)	10.51	10.60	10.67
10MHz	1RB-High (49)	2685 (41540)	10.64	10.92	10.65
		2639(41080)	10.52	10.79	10.50
		2593 (40620)	10.53	10.82	10.54
		2547(40160)	10.37	10.67	10.40
		2501 (39700)	10.65	10.92	10.66
	1RB-Middle (24)	2685 (41540)	10.71	10.98	10.70
		2639(41080)	10.60	10.83	10.57
		2593 (40620)	10.55	10.85	10.57
		2547(40160)	10.47	10.74	10.49
		2501 (39700)	10.68	10.94	10.68
	1RB-Low (0)	2685 (41540)	10.60	10.91	10.65
		2639(41080)	10.59	10.85	10.57
		2593 (40620)	10.52	10.79	10.52
		2547(40160)	10.45	10.74	10.46
		2501 (39700)	10.58	10.83	10.55
	25RB-High (25)	2685 (41540)	10.56	10.62	10.73
		2639(41080)	10.46	10.53	10.60
		2593 (40620)	10.46	10.52	10.63
		2547(40160)	10.36	10.44	10.50
		2501 (39700)	10.56	10.65	10.71
	25RB-Middle (12)	2685 (41540)	10.52	10.66	10.74
		2639(41080)	10.50	10.59	10.65
		2593 (40620)	10.49	10.53	10.64
		2547(40160)	10.40	10.47	10.55
		2501 (39700)	10.60	10.67	10.74
	25RB-Low (0)	2685 (41540)	10.50	10.61	10.65
		2639(41080)	10.51	10.57	10.65
		2593 (40620)	10.45	10.48	10.59
		2547(40160)	10.34	10.41	10.49
		2501 (39700)	10.49	10.56	10.65
	50RB (0)	2685 (41540)	10.63	10.63	10.62
		2639(41080)	10.48	10.53	10.50
		2593 (40620)	10.43	10.54	10.51
		2547(40160)	10.34	10.42	10.43
		2501 (39700)	10.56	10.62	10.62
15MHz	1RB-High (74)	2682.5 (41515)	10.61	10.85	10.58

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		2637.8(41068)	10.47	10.74	10.47
		2593 (40620)	10.49	10.76	10.48
		2548.3(40173)	10.28	10.55	10.29
		2503.5 (39725)	10.58	10.86	10.58
	1RB-Middle (37)	2682.5 (41515)	10.65	10.88	10.63
		2637.8(41068)	10.61	10.88	10.63
		2593 (40620)	10.56	10.83	10.57
		2548.3(40173)	10.48	10.73	10.47
		2503.5 (39725)	10.67	10.97	10.68
	1RB-Low (0)	2682.5 (41515)	10.58	10.84	10.55
		2637.8(41068)	10.56	10.83	10.58
		2593 (40620)	10.45	10.70	10.45
		2548.3(40173)	10.39	10.67	10.42
		2503.5 (39725)	10.51	10.77	10.53
	36RB-High (38)	2682.5 (41515)	10.48	10.49	10.55
		2637.8(41068)	10.42	10.45	10.46
		2593 (40620)	10.43	10.44	10.49
		2548.3(40173)	10.30	10.31	10.36
		2503.5 (39725)	10.51	10.55	10.59
	36RB-Middle (19)	2682.5 (41515)	10.56	10.52	10.63
		2637.8(41068)	10.49	10.51	10.55
		2593 (40620)	10.45	10.48	10.53
		2548.3(40173)	10.35	10.38	10.42
		2503.5 (39725)	10.56	10.58	10.62
	36RB-Low (0)	2682.5 (41515)	10.53	10.53	10.56
		2637.8(41068)	10.48	10.48	10.52
		2593 (40620)	10.39	10.42	10.45
		2548.3(40173)	10.30	10.31	10.37
		2503.5 (39725)	10.49	10.50	10.53
	75RB (0)	2682.5 (41515)	10.67	10.69	10.62
		2637.8(41068)	10.46	10.50	10.54
		2593 (40620)	10.42	10.48	10.51
		2548.3(40173)	10.32	10.38	10.38
		2503.5 (39725)	10.53	10.58	10.59
20MHz	1RB-High (99)	2680 (41490)	10.52	10.76	10.50
		2636.5(41055)	10.38	10.61	10.36
		2593 (40620)	10.42	10.65	10.40
		2549.5(40185)	10.20	10.47	10.20
		2506 (39750)	10.48	10.76	10.47
	1RB-Middle (50)	2680 (41490)	10.65	10.96	10.60
		2636.5(41055)	10.60	10.87	10.61

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		2593 (40620)	10.77	10.86	10.58
		2549.5(40185)	10.45	10.74	10.46
		2506 (39750)	10.70	10.99	10.70
	1RB-Low (0)	2680 (41490)	10.48	10.72	10.48
		2636.5(41055)	10.51	10.78	10.51
		2593 (40620)	10.37	10.61	10.35
		2549.5(40185)	10.30	10.57	10.29
		2506 (39750)	10.41	10.68	10.41
	50RB-High (50)	2680 (41490)	10.51	10.66	10.61
		2636.5(41055)	10.41	10.47	10.45
		2593 (40620)	10.42	10.49	10.47
		2549.5(40185)	10.31	10.36	10.35
		2506 (39750)	10.54	10.61	10.60
	50RB-Middle (25)	2680 (41490)	10.63	10.63	10.75
		2636.5(41055)	10.55	10.58	10.60
		2593 (40620)	10.65	10.57	10.57
		2549.5(40185)	10.38	10.45	10.44
		2506 (39750)	10.59	10.66	10.65
	50RB-Low (0)	2680 (41490)	10.58	10.62	10.61
		2636.5(41055)	10.54	10.59	10.58
		2593 (40620)	10.40	10.44	10.46
		2549.5(40185)	10.28	10.34	10.35
		2506 (39750)	10.48	10.56	10.55
	100RB (0)	2680 (41490)	10.53	10.58	10.56
		2636.5(41055)	10.45	10.48	10.48
		2593 (40620)	10.59	10.40	10.47
		2549.5(40185)	10.28	10.32	10.36
		2506 (39750)	10.51	10.53	10.54

LTE Band41 ANT2 sensor off

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5 (41565)	23.88	23.09	21.97
		2640.3(41093)	23.81	23.00	21.87
		2593 (40620)	23.82	23.06	21.85
		2545.8(40148)	23.70	22.98	21.77
		2498.5 (39675)	23.83	23.07	21.99
	1RB-Middle (12)	2687.5 (41565)	24.01	23.22	22.10
		2640.3(41093)	23.96	23.14	22.01
		2593 (40620)	23.95	23.18	22.01
		2545.8(40148)	23.88	23.12	21.94
		2498.5 (39675)	23.94	23.16	22.09

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	1RB-Low (0)	2687.5 (41565)	23.89	23.10	21.99
		2640.3(41093)	23.82	23.01	21.89
		2593 (40620)	23.80	23.01	21.86
		2545.8(40148)	23.74	22.99	21.80
		2498.5 (39675)	23.78	23.04	21.93
	12RB-High (13)	2687.5 (41565)	22.93	22.04	21.11
		2640.3(41093)	22.82	21.94	20.98
		2593 (40620)	22.82	21.95	20.99
		2545.8(40148)	22.79	21.85	20.90
		2498.5 (39675)	22.91	22.00	20.98
	12RB-Middle (6)	2687.5 (41565)	22.97	22.10	21.15
		2640.3(41093)	22.90	22.02	21.05
		2593 (40620)	22.87	21.96	21.03
		2545.8(40148)	22.82	21.90	20.96
		2498.5 (39675)	22.94	22.02	21.03
	12RB-Low (0)	2687.5 (41565)	22.93	22.05	21.10
		2640.3(41093)	22.86	21.98	21.00
		2593 (40620)	22.84	21.90	20.97
		2545.8(40148)	22.77	21.84	20.90
		2498.5 (39675)	22.82	21.94	20.93
	25RB (0)	2687.5 (41565)	22.95	22.08	21.16
		2640.3(41093)	22.86	21.99	21.00
		2593 (40620)	22.85	21.96	21.01
		2545.8(40148)	22.75	21.88	20.93
		2498.5 (39675)	22.83	21.99	20.99
10MHz	1RB-High (49)	2685 (41540)	23.97	23.18	22.04
		2639(41080)	23.88	23.09	21.94
		2593 (40620)	23.93	23.14	21.96
		2547(40160)	23.80	23.04	21.85
		2501 (39700)	23.95	23.21	22.10
	1RB-Middle (24)	2685 (41540)	24.03	23.23	22.10
		2639(41080)	23.96	23.14	22.01
		2593 (40620)	23.96	23.16	21.98
		2547(40160)	23.86	23.12	21.93
		2501 (39700)	23.96	23.21	22.14
	1RB-Low (0)	2685 (41540)	23.97	23.16	22.04
		2639(41080)	23.93	23.14	22.02
		2593 (40620)	23.91	23.12	21.94
		2547(40160)	23.84	23.11	21.91
		2501 (39700)	23.85	23.12	22.01
	25RB-High (25)	2685 (41540)	22.95	22.07	21.15

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		2639(41080)	22.84	21.97	21.00
		2593 (40620)	22.89	21.97	21.04
		2547(40160)	22.77	21.87	20.96
		2501 (39700)	22.91	22.04	21.05
	25RB-Middle (12)	2685 (41540)	22.96	22.09	21.16
		2639(41080)	22.91	22.03	21.09
		2593 (40620)	22.89	22.01	21.06
		2547(40160)	22.80	21.91	20.98
		2501 (39700)	22.92	22.04	21.08
	25RB-Low (0)	2685 (41540)	22.96	22.08	21.14
		2639(41080)	22.91	22.03	21.06
		2593 (40620)	22.85	21.96	21.02
		2547(40160)	22.75	21.86	20.93
		2501 (39700)	22.82	21.95	20.97
	50RB (0)	2685 (41540)	22.95	22.07	21.05
		2639(41080)	22.89	22.00	21.00
		2593 (40620)	22.89	21.99	20.97
		2547(40160)	22.80	21.90	20.89
		2501 (39700)	22.96	22.03	21.02
15MHz	1RB-High (74)	2682.5 (41515)	23.92	23.10	22.00
		2637.8(41068)	23.82	23.02	21.88
		2593 (40620)	23.88	23.09	21.91
		2548.3(40173)	23.72	22.93	21.76
		2503.5 (39725)	23.90	23.16	22.04
	1RB-Middle (37)	2682.5 (41515)	23.99	23.18	22.07
		2637.8(41068)	23.98	23.17	22.04
		2593 (40620)	23.97	23.16	22.02
		2548.3(40173)	23.88	23.12	21.93
		2503.5 (39725)	23.96	23.22	22.13
	1RB-Low (0)	2682.5 (41515)	23.89	23.09	21.99
		2637.8(41068)	23.94	23.13	22.02
		2593 (40620)	23.84	23.05	21.87
		2548.3(40173)	23.80	23.07	21.87
		2503.5 (39725)	23.79	23.08	21.95
	36RB-High (38)	2682.5 (41515)	22.87	21.95	20.99
		2637.8(41068)	22.81	21.90	20.91
		2593 (40620)	22.84	21.89	20.94
		2548.3(40173)	22.76	21.80	20.85
		2503.5 (39725)	22.91	21.97	20.99
	36RB-Middle (19)	2682.5 (41515)	22.93	22.02	21.06
		2637.8(41068)	22.88	21.98	20.98

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		2593 (40620)	22.88	21.94	20.95
		2548.3(40173)	22.81	21.86	20.88
		2503.5 (39725)	22.93	22.00	21.01
	36RB-Low (0)	2682.5 (41515)	22.89	21.98	21.03
		2637.8(41068)	22.87	21.95	21.00
		2593 (40620)	22.82	21.88	20.92
		2548.3(40173)	22.77	21.81	20.84
		2503.5 (39725)	22.84	21.89	20.90
	75RB (0)	2682.5 (41515)	22.90	22.02	21.04
		2637.8(41068)	22.87	21.97	20.95
		2593 (40620)	22.86	21.93	20.95
		2548.3(40173)	22.76	21.85	20.87
		2503.5 (39725)	22.90	21.97	20.99
20MHz	1RB-High (99)	2680 (41490)	23.82	23.03	21.92
		2636.5(41055)	23.74	22.94	21.81
		2593 (40620)	23.82	23.01	21.83
		2549.5(40185)	23.64	22.85	21.65
		2506 (39750)	23.81	23.07	21.94
	1RB-Middle (50)	2680 (41490)	23.96	23.20	22.10
		2636.5(41055)	23.97	23.18	22.05
		2593 (40620)	24.02	23.18	21.98
		2549.5(40185)	23.85	23.12	21.89
		2506 (39750)	23.99	23.25	22.16
	1RB-Low (0)	2680 (41490)	23.82	23.01	21.90
		2636.5(41055)	23.87	23.08	21.95
		2593 (40620)	23.75	22.95	21.78
		2549.5(40185)	23.69	22.96	21.75
		2506 (39750)	23.72	22.99	21.85
	50RB-High (50)	2680 (41490)	22.85	21.97	20.96
		2636.5(41055)	22.80	21.91	20.90
		2593 (40620)	22.86	21.95	20.94
		2549.5(40185)	22.75	21.85	20.82
		2506 (39750)	22.99	22.04	21.03
	50RB-Middle (25)	2680 (41490)	22.97	22.09	21.08
		2636.5(41055)	22.94	22.06	21.04
		2593 (40620)	23.05	22.02	21.01
		2549.5(40185)	22.83	21.93	20.92
		2506 (39750)	23.03	22.06	21.08
	50RB-Low (0)	2680 (41490)	22.94	22.08	21.05
		2636.5(41055)	22.93	22.05	21.03
		2593 (40620)	22.85	21.92	20.93

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		2549.5(40185)	22.75	21.85	20.84
		2506 (39750)	22.90	21.94	20.96
	100RB (0)	2680 (41490)	22.90	22.01	21.00
		2636.5(41055)	22.85	21.96	20.97
		2593 (40620)	22.96	21.92	20.95
		2549.5(40185)	22.82	21.85	20.83
		2506 (39750)	22.94	21.99	20.97

LTE Band66 ANT2 sensor on

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	11.46	11.67	11.73
		1745 (132322)	11.33	11.66	11.63
		1710.7 (131979)	11.40	11.69	11.65
	1RB-Middle (3)	1779.3 (132665)	11.53	11.74	11.73
		1745 (132322)	11.39	11.61	11.65
		1710.7 (131979)	11.49	11.74	11.73
	1RB-Low (0)	1779.3 (132665)	11.47	11.64	11.67
		1745 (132322)	11.35	11.62	11.55
		1710.7 (131979)	11.40	11.62	11.63
	3RB-High (3)	1779.3 (132665)	11.56	11.59	11.75
		1745 (132322)	11.46	11.39	11.63
		1710.7 (131979)	11.52	11.52	11.71
	3RB-Middle (1)	1779.3 (132665)	11.59	11.57	11.76
		1745 (132322)	11.50	11.48	11.65
		1710.7 (131979)	11.52	11.49	11.72
	3RB-Low (0)	1779.3 (132665)	11.57	11.51	11.73
		1745 (132322)	11.45	11.45	11.59
		1710.7 (131979)	11.53	11.53	11.72
	6RB (0)	1779.3 (132665)	11.66	11.71	11.68
		1745 (132322)	11.53	11.61	11.51
		1710.7 (131979)	11.58	11.67	11.64
3MHz	1RB-High (14)	1778.5 (132657)	11.37	11.62	11.66
		1745 (132322)	11.28	11.53	11.54
		1711.5 (131987)	11.28	11.49	11.57
	1RB-Middle (7)	1778.5 (132657)	11.50	11.79	11.71
		1745 (132322)	11.33	11.62	11.59
		1711.5 (131987)	11.45	11.61	11.73
	1RB-Low (0)	1778.5 (132657)	11.36	11.67	11.62
		1745 (132322)	11.25	11.49	11.52
		1711.5 (131987)	11.33	11.51	11.60

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	8RB-High (7)	1778.5 (132657)	11.58	11.62	11.57
		1745 (132322)	11.48	11.50	11.50
		1711.5 (131987)	11.53	11.57	11.57
	8RB-Middle (4)	1778.5 (132657)	11.66	11.67	11.66
		1745 (132322)	11.55	11.55	11.54
		1711.5 (131987)	11.60	11.64	11.61
	8RB-Low (0)	1778.5 (132657)	11.61	11.66	11.61
		1745 (132322)	11.44	11.50	11.47
		1711.5 (131987)	11.51	11.54	11.53
	15RB (0)	1778.5 (132657)	11.58	11.59	11.57
		1745 (132322)	11.45	11.44	11.44
		1711.5 (131987)	11.52	11.51	11.50
5MHz	1RB-High (24)	1777.5 (132647)	11.60	11.87	11.74
		1745 (132322)	11.52	11.73	11.66
		1712.5 (131997)	11.49	11.78	11.68
	1RB-Middle (12)	1777.5 (132647)	11.73	12.01	11.88
		1745 (132322)	11.59	11.80	11.71
		1712.5 (131997)	11.62	11.90	11.80
	1RB-Low (0)	1777.5 (132647)	11.63	11.92	11.73
		1745 (132322)	11.49	11.63	11.57
		1712.5 (131997)	11.56	11.82	11.74
	12RB-High (13)	1777.5 (132647)	11.63	11.63	11.66
		1745 (132322)	11.55	11.55	11.54
		1712.5 (131997)	11.59	11.59	11.57
	12RB-Middle (6)	1777.5 (132647)	11.73	11.73	11.76
		1745 (132322)	11.59	11.57	11.59
		1712.5 (131997)	11.64	11.64	11.66
	12RB-Low (0)	1777.5 (132647)	11.71	11.66	11.71
		1745 (132322)	11.53	11.52	11.52
		1712.5 (131997)	11.55	11.55	11.56
	25RB (0)	1777.5 (132647)	11.66	11.67	11.68
		1745 (132322)	11.54	11.54	11.55
		1712.5 (131997)	11.59	11.59	11.60
10MHz	1RB-High (49)	1775 (132622)	11.72	12.02	11.88
		1745 (132322)	11.63	11.88	11.79
		1715 (132022)	11.56	11.87	11.70
	1RB-Middle (24)	1775 (132622)	11.75	11.94	11.90
		1745 (132322)	11.63	11.84	11.80
		1715 (132022)	11.61	11.92	11.79
	1RB-Low (0)	1775 (132622)	11.76	12.05	11.89

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		1745 (132322)	11.58	11.89	11.74
		1715 (132022)	11.66	11.84	11.85
	25RB-High (25)	1775 (132622)	11.65	11.66	11.66
		1745 (132322)	11.54	11.55	11.57
		1715 (132022)	11.58	11.55	11.57
	25RB-Middle (12)	1775 (132622)	11.74	11.76	11.77
		1745 (132322)	11.61	11.63	11.63
		1715 (132022)	11.60	11.60	11.61
	25RB-Low (0)	1775 (132622)	11.74	11.74	11.74
		1745 (132322)	11.53	11.52	11.51
		1715 (132022)	11.51	11.50	11.49
	50RB (0)	1775 (132622)	11.70	11.68	11.70
		1745 (132322)	11.56	11.54	11.56
		1715 (132022)	11.61	11.55	11.57
15MHz	1RB-High (74)	1772.5 (132597)	11.66	11.90	11.85
		1745 (132322)	11.57	11.85	11.72
		1717.5 (132047)	11.48	11.70	11.57
	1RB-Middle (37)	1772.5 (132597)	11.81	12.05	11.86
		1745 (132322)	11.68	11.87	11.77
		1717.5 (132047)	11.60	11.84	11.72
	1RB-Low (0)	1772.5 (132597)	11.68	11.85	11.82
		1745 (132322)	11.50	11.70	11.62
		1717.5 (132047)	11.62	11.93	11.83
	36RB-High (38)	1772.5 (132597)	11.67	11.64	11.71
		1745 (132322)	11.57	11.57	11.59
		1717.5 (132047)	11.55	11.50	11.58
	36RB-Middle (19)	1772.5 (132597)	11.75	11.74	11.78
		1745 (132322)	11.59	11.60	11.62
		1717.5 (132047)	11.57	11.56	11.58
	36RB-Low (0)	1772.5 (132597)	11.73	11.70	11.73
		1745 (132322)	11.54	11.52	11.55
		1717.5 (132047)	11.54	11.53	11.54
	75RB (0)	1772.5 (132597)	11.73	11.68	11.70
		1745 (132322)	11.58	11.56	11.58
		1717.5 (132047)	11.54	11.51	11.50
20MHz	1RB-High (99)	1770 (132572)	11.58	11.86	11.72
		1745 (132322)	11.52	11.69	11.65
		1720 (132072)	11.43	11.71	11.59
	1RB-Middle (50)	1770 (132572)	11.77	12.02	11.93
		1745 (132322)	11.83	11.90	11.76

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		1720 (132072)	11.57	11.81	11.82
	1RB-Low (0)	1770 (132572)	11.54	11.77	11.70
		1745 (132322)	11.39	11.67	11.58
		1720 (132072)	11.46	11.75	11.71
	50RB-High (50)	1770 (132572)	11.63	11.61	11.63
		1745 (132322)	11.60	11.58	11.59
		1720 (132072)	11.56	11.53	11.54
	50RB-Middle (25)	1770 (132572)	11.71	11.77	11.78
		1745 (132322)	11.79	11.62	11.65
		1720 (132072)	11.61	11.58	11.59
	50RB-Low (0)	1770 (132572)	11.69	11.66	11.67
		1745 (132322)	11.52	11.49	11.51
		1720 (132072)	11.43	11.40	11.41
	100RB (0)	1770 (132572)	11.64	11.59	11.63
		1745 (132322)	11.54	11.51	11.51
		1720 (132072)	11.48	11.44	11.49

LTE Band66 ANT2 sensor off

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.40	22.68	21.73
		1745 (132322)	23.34	22.67	21.59
		1710.7 (131979)	23.36	22.65	21.70
	1RB-Middle (3)	1779.3 (132665)	23.47	22.73	21.79
		1745 (132322)	23.37	22.59	21.65
		1710.7 (131979)	23.43	22.74	21.77
	1RB-Low (0)	1779.3 (132665)	23.41	22.67	21.68
		1745 (132322)	23.32	22.53	21.68
		1710.7 (131979)	23.34	22.70	21.72
	3RB-High (3)	1779.3 (132665)	23.53	22.48	21.70
		1745 (132322)	23.48	22.46	21.67
		1710.7 (131979)	23.49	22.41	21.71
	3RB-Middle (1)	1779.3 (132665)	23.55	22.58	21.74
		1745 (132322)	23.48	22.41	21.71
		1710.7 (131979)	23.49	22.50	21.75
	3RB-Low (0)	1779.3 (132665)	23.53	22.48	21.71
		1745 (132322)	23.44	22.43	21.69
		1710.7 (131979)	23.49	22.52	21.69
	6RB (0)	1779.3 (132665)	22.63	21.72	20.67
		1745 (132322)	22.55	21.69	20.57
		1710.7 (131979)	22.59	21.71	20.64

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3MHz	1RB-High (14)	1778.5 (132657)	23.35	22.61	21.56
		1745 (132322)	23.24	22.57	21.48
		1711.5 (131987)	23.25	22.55	21.57
	1RB-Middle (7)	1778.5 (132657)	23.43	22.81	21.77
		1745 (132322)	23.37	22.63	21.71
		1711.5 (131987)	23.38	22.72	21.72
	1RB-Low (0)	1778.5 (132657)	23.31	22.52	21.66
		1745 (132322)	23.25	22.55	21.51
		1711.5 (131987)	23.26	22.60	21.60
	8RB-High (7)	1778.5 (132657)	22.55	21.62	20.62
		1745 (132322)	22.47	21.54	20.52
		1711.5 (131987)	22.52	21.59	20.56
	8RB-Middle (4)	1778.5 (132657)	22.62	21.68	20.68
		1745 (132322)	22.55	21.58	20.60
		1711.5 (131987)	22.55	21.65	20.64
	8RB-Low (0)	1778.5 (132657)	22.57	21.64	20.63
		1745 (132322)	22.46	21.55	20.52
		1711.5 (131987)	22.49	21.55	20.55
	15RB (0)	1778.5 (132657)	22.56	21.57	20.56
		1745 (132322)	22.47	21.48	20.47
		1711.5 (131987)	22.50	21.53	20.52
5MHz	1RB-High (24)	1777.5 (132647)	23.59	22.93	21.82
		1745 (132322)	23.49	22.78	21.68
		1712.5 (131997)	23.46	22.68	21.68
	1RB-Middle (12)	1777.5 (132647)	23.70	22.97	21.96
		1745 (132322)	23.61	22.85	21.81
		1712.5 (131997)	23.58	22.83	21.80
	1RB-Low (0)	1777.5 (132647)	23.60	22.78	21.76
		1745 (132322)	23.49	22.80	21.65
		1712.5 (131997)	23.54	22.82	21.78
	12RB-High (13)	1777.5 (132647)	22.60	21.60	20.67
		1745 (132322)	22.58	21.53	20.63
		1712.5 (131997)	22.56	21.53	20.63
	12RB-Middle (6)	1777.5 (132647)	22.71	21.72	20.76
		1745 (132322)	22.62	21.64	20.68
		1712.5 (131997)	22.62	21.62	20.67
	12RB-Low (0)	1777.5 (132647)	22.67	21.67	20.71
		1745 (132322)	22.54	21.52	20.59
		1712.5 (131997)	22.54	21.51	20.60
	25RB (0)	1777.5 (132647)	22.65	21.65	20.69
		1745 (132322)	22.57	21.59	20.59

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		1712.5 (131997)	22.59	21.60	20.62
10MHz	1RB-High (49)	1775 (132622)	23.68	22.93	21.95
		1745 (132322)	23.63	22.84	21.85
		1715 (132022)	23.53	22.81	21.73
	1RB-Middle (24)	1775 (132622)	23.70	22.93	21.87
		1745 (132322)	23.62	22.92	21.83
		1715 (132022)	23.58	22.92	21.81
	1RB-Low (0)	1775 (132622)	23.68	22.89	21.89
		1745 (132322)	23.57	22.90	21.75
		1715 (132022)	23.63	22.90	21.78
	25RB-High (25)	1775 (132622)	22.62	21.63	20.64
		1745 (132322)	22.58	21.61	20.62
		1715 (132022)	22.56	21.57	20.59
	25RB-Middle (12)	1775 (132622)	22.72	21.76	20.72
		1745 (132322)	22.64	21.65	20.64
		1715 (132022)	22.59	21.62	20.61
	25RB-Low (0)	1775 (132622)	22.69	21.73	20.72
		1745 (132322)	22.52	21.55	20.54
		1715 (132022)	22.49	21.52	20.54
	50RB (0)	1775 (132622)	22.67	21.68	20.67
		1745 (132322)	22.56	21.58	20.58
		1715 (132022)	22.56	21.59	20.57
15MHz	1RB-High (74)	1772.5 (132597)	23.63	22.94	21.81
		1745 (132322)	23.59	22.85	21.81
		1717.5 (132047)	23.47	22.78	21.70
	1RB-Middle (37)	1772.5 (132597)	23.71	23.01	21.93
		1745 (132322)	23.64	22.99	21.88
		1717.5 (132047)	23.57	22.84	21.80
	1RB-Low (0)	1772.5 (132597)	23.63	22.82	21.82
		1745 (132322)	23.50	22.72	21.71
		1717.5 (132047)	23.57	22.83	21.74
	36RB-High (38)	1772.5 (132597)	22.64	21.65	20.69
		1745 (132322)	22.59	21.62	20.67
		1717.5 (132047)	22.54	21.52	20.59
	36RB-Middle (19)	1772.5 (132597)	22.72	21.72	20.78
		1745 (132322)	22.61	21.62	20.67
		1717.5 (132047)	22.55	21.55	20.60
	36RB-Low (0)	1772.5 (132597)	22.70	21.68	20.75
		1745 (132322)	22.55	21.55	20.60
		1717.5 (132047)	22.50	21.51	20.56

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	75RB (0)	1772.5 (132597)	22.70	21.71	20.70
		1745 (132322)	22.59	21.59	20.60
		1717.5 (132047)	22.52	21.52	20.54
20MHz	1RB-High (99)	1770 (132572)	23.53	22.70	21.77
		1745 (132322)	23.49	22.68	21.64
		1720 (132072)	23.42	22.77	21.69
	1RB-Middle (50)	1770 (132572)	23.71	22.99	21.95
		1745 (132322)	23.73	22.87	21.86
		1720 (132072)	23.55	22.81	21.87
	1RB-Low (0)	1770 (132572)	23.50	22.69	21.73
		1745 (132322)	23.40	22.61	21.69
		1720 (132072)	23.48	22.62	21.68
	50RB-High (50)	1770 (132572)	22.62	21.61	20.63
		1745 (132322)	22.62	21.62	20.63
		1720 (132072)	22.57	21.57	20.56
	50RB-Middle (25)	1770 (132572)	22.77	21.77	20.77
		1745 (132322)	22.79	21.65	20.67
		1720 (132072)	22.62	21.60	20.59
	50RB-Low (0)	1770 (132572)	22.68	21.66	20.65
		1745 (132322)	22.54	21.53	20.55
		1720 (132072)	22.44	21.43	20.43
	100RB (0)	1770 (132572)	22.63	21.60	20.64
		1745 (132322)	22.56	21.56	20.57
		1720 (132072)	22.49	21.46	20.48

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LTE Carrier Aggregation Conducted Power (Uplink)

7C-ANT1-Sar on

UL LTE CA Class	PCC					SCC				Power
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	conducted power (dBm)
CA_7C	20M	21350	3350	1	99	20M	3152	1	0	8.14
CA_7C	20M	21350	3350	1	99	15M	3179	1	0	8.26
CA_7C	20M	21350	3350	1	99	10M	3206	1	0	8.32
CA_7C	20M	20850	2850	1	99	20M	3048	1	0	8.81
CA_7C	20M	20850	2850	1	99	15M	3021	1	0	8.72
CA_7C	20M	20850	2850	1	99	10M	2994	1	0	8.68
CA_7C	15M	21375	3375	1	74	15M	3225	1	0	8.29
CA_7C	15M	20825	2825	1	74	15M	2975	1	0	8.61
CA_7C	15M	20825	2825	1	74	10M	2945	1	0	8.68
CA_7C	20M	21350	3350	1	0	20M	3152	1	99	8.76
CA_7C	20M	21350	3350	1	0	15M	3179	1	74	8.73
CA_7C	20M	21350	3350	1	0	10M	3206	1	49	8.56
CA_7C	20M	20850	2850	1	0	20M	3048	1	99	8.36
CA_7C	20M	20850	2850	1	0	15M	3021	1	74	8.41
CA_7C	20M	20850	2850	1	0	10M	2994	1	49	8.56
CA_7C	15M	21375	3375	1	0	15M	3225	1	74	8.77
CA_7C	15M	20825	2825	1	0	15M	2975	1	74	8.35
CA_7C	15M	20825	2825	1	0	10M	2945	1	49	8.71

7C-ANT1-Sar off

UL LTE CA Class	PCC					SCC				Power
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	UL RB	UL RB OFFSET	conducted power (dBm)
CA_7C	20M	21350	3350	1	99	20M	3152	1	0	14.82
CA_7C	20M	21350	3350	1	99	15M	3179	1	0	14.85
CA_7C	20M	21350	3350	1	99	10M	3206	1	0	15.01
CA_7C	20M	20850	2850	1	99	20M	3048	1	0	23.35
CA_7C	20M	20850	2850	1	99	15M	3021	1	0	23.27
CA_7C	20M	20850	2850	1	99	10M	2994	1	0	23.44
CA_7C	15M	21375	3375	1	74	15M	3225	1	0	14.72
CA_7C	15M	20825	2825	1	74	15M	2975	1	0	23.46
CA_7C	15M	20825	2825	1	74	10M	2945	1	0	23.38
CA_7C	20M	21350	3350	1	0	20M	3152	1	99	23.32
CA_7C	20M	21350	3350	1	0	15M	3179	1	74	23.38
CA_7C	20M	21350	3350	1	0	10M	3206	1	49	23.02
CA_7C	20M	20850	2850	1	0	20M	3048	1	99	14.86
CA_7C	20M	20850	2850	1	0	15M	3021	1	74	14.76
CA_7C	20M	20850	2850	1	0	10M	2994	1	49	14.89
CA_7C	15M	21375	3375	1	0	15M	3225	1	74	23.39
CA_7C	15M	20825	2825	1	0	15M	2975	1	74	14.78
CA_7C	15M	20825	2825	1	0	10M	2945	1	49	14.92

38C-ANT1-Sar on

UL LTE CA Class	PCC				SCC				Power
	CC Bandwidt	channel	RB	RB OFFSET	CC Bandwidt	channel	RB	RB OFFSET	conducted power (dBm)
CA_38C	20M	38150	1	99	20M	37952	1	0	9.53
CA_38C	20M	37850	1	99	20M	38048	1	0	9.95
CA_38C	15M	38175	1	74	15M	38025	1	0	9.74
CA_38C	15M	37825	1	74	15M	37975	1	0	9.88
CA_38C	20M	38150	1	0	20M	37952	1	99	10.05
CA_38C	20M	37850	1	0	20M	38048	1	99	9.45
CA_38C	15M	38175	1	0	15M	38025	1	74	10.1
CA_38C	15M	37825	1	0	15M	37975	1	74	9.63

38C-ANT1-Sar off

UL LTE CA Class	PCC				SCC				Power
	CC Bandwidt	channel	RB	RB OFFSET	CC Bandwidt	channel	RB	RB OFFSET	conducted power (dBm)
CA_38C	20M	38150	1	99	20M	37952	1	0	14.59
CA_38C	20M	37850	1	99	20M	38048	1	0	23.36
CA_38C	15M	38175	1	74	15M	38025	1	0	14.76
CA_38C	15M	37825	1	74	15M	37975	1	0	23.38
CA_38C	20M	38150	1	0	20M	37952	1	99	23.48
CA_38C	20M	37850	1	0	20M	38048	1	99	14.39
CA_38C	15M	38175	1	0	15M	38025	1	74	23.44
CA_38C	15M	37825	1	0	15M	37975	1	74	14.66

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10.4 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 6.52dBm.
The maximum tune up of BT antenna is 7dBm.

WIFI2.4G ANT3 Sensor on

FCC			Tune up
802.11b	Channel\data	1Mbps	
WLAN2450	11(2462MHz)	9.32	10.00
	6(2437(MHz)	9.42	10.00
	1(2412MHz)	9.37	10.00
802.11g	Channel\data	6Mbps	
WLAN2450	11(2462MHz)	9.10	10.00
	6(2437(MHz)	9.24	10.00
	1(2412MHz)	9.18	10.00
802.11n-20MHz	Channel\data	MCS0	
WLAN2450	11(2462MHz)	9.09	10.00
	6(2437(MHz)	9.13	10.00
	1(2412MHz)	9.12	10.00

WIFI2.4G ANT3 Sensor off

FCC			Tune up
802.11b	Channel\data	1Mbps	
WLAN2450	11(2462MHz)	16.98	18.00
	6(2437(MHz)	17.21	18.00
	1(2412MHz)	16.90	18.00
802.11g	Channel\data	6Mbps	
WLAN2450	11(2462MHz)	13.60	15.00
	6(2437(MHz)	16.50	17.50
	1(2412MHz)	15.53	16.50
802.11n-20MHz	Channel\data	MCS0	
WLAN2450	11(2462MHz)	13.57	15.00
	6(2437(MHz)	16.41	17.50
	1(2412MHz)	15.32	16.50

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WIFI5G ANT3 Sensor on

5GHz		Tune up
802.11ac(dBm)-80MHz		
Channel\data rate	MCS0	
42(5210 MHz)	4.90	6
58(5290 MHz)	5.20	6
106(5530 MHz)	5.10	6
122(5610 MHz)	5.50	6
138(5690 MHz)	4.90	6
155(5775 MHz)	5.00	6

WIFI5G ANT3 Sensor off

5GHz		Tune up
802.11a(dBm)		
Channel\data rate	6Mbps	
36(5180 MHz)	15.58	16.50
40(5200 MHz)	15.47	16.50
44(5220 MHz)	15.59	16.50
48(5240 MHz)	15.61	16.50
52(5260 MHz)	15.65	16.50
56(5280 MHz)	15.64	16.50
60(5300 MHz)	15.63	16.50
64(5320 MHz)	15.59	16.50
149(5745 MHz)	16.71	17.50
153(5765 MHz)	16.68	17.50
157(5785 MHz)	16.61	17.50
161(5805 MHz)	16.75	17.50
165(5825 MHz)	16.73	17.50
802.11n(dBm)-40MHz		
Channel\data rate	MCS0	
102(5510 MHz)	12.24	13.50
110(5550 MHz)	12.18	13.50
118(5590 MHz)	12.81	13.50
126(5630 MHz)	12.93	13.50
134(5670 MHz)	12.46	13.50
142(5710 MHz)	12.43	13.50

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11 SAR Test Result

Note:

KDB 447498 D01 General RF Exposure Guidance:

For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor

For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz

≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 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.

KDB 941225 D01 SAR test for 3G devices:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among 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 for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.

Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low,Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.

Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.

Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is <1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the

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group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

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.

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.

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:

$\leqslant$ 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 $\leqslant$ 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 $\leqslant$ 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.

When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is $\leqslant$ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.

When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with

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the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

Table 15.1: Duty Cycle

Mode	Duty Cycle
Speech for GSM	1:8.3
GPRS&EGPRS 1 Slot	1:8.3
GPRS&EGPRS 2 Slot	1:4
GPRS&EGPRS 3 Slot	1:2.67
GPRS&EGPRS 4 Slot	1:2
WCDMA&LTE FDD	1:1
TDD PC3	1:1.58
TDD PC2	1:2.31

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11.1 SAR results for 2G/3G/4G

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	RB/TX slot	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift
2	Head	GSM850	190	836.6	2TX	GPRS	Cheek Left	0mm	\	22.36	23.50	0.164	0.21	0.108	0.14	0.08
2	Head	GSM850	190	836.6	2TX	GPRS	Tilt Left	0mm	\	22.36	23.50	0.132	0.17	0.084	0.11	0.01
2	Head	GSM850	251	848.8	2TX	GPRS	Cheek Right	0mm	\	22.42	23.50	0.183	0.23	0.105	0.13	0.03
2	Head	GSM850	190	836.6	2TX	GPRS	Cheek Right	0mm	\	22.36	23.50	0.223	0.29	0.129	0.17	-0.08
2	Head	GSM850	128	824.2	2TX	GPRS	Cheek Right	0mm	F.1	22.46	23.50	0.237	0.30	0.134	0.17	-0.13
2	Head	GSM850	190	836.6	2TX	GPRS	Tilt Right	0mm	\	22.36	23.50	0.159	0.21	0.089	0.12	-0.08
2	Head	GSM850	128	824.2	2TX	EGPRS	Cheek Right	0mm	\	22.40	23.50	0.137	0.18	0.082	0.11	0.1
2	sensor off	GSM850	190	836.6	2TX	GPRS	Front	17mm	\	30.57	31.50	0.304	0.38	0.209	0.26	-0.18
2	sensor off	GSM850	128	824.2	2TX	GPRS	Rear	20mm	\	30.55	31.50	0.294	0.37	0.2	0.25	0.1
2	sensor off	GSM850	190	836.6	2TX	GPRS	Rear	20mm	\	30.57	31.50	0.389	0.48	0.258	0.32	0.02
2	sensor off	GSM850	251	848.8	2TX	GPRS	Rear	20mm	\	30.65	31.50	0.344	0.42	0.227	0.28	0.12
2	sensor off	GSM850	190	836.6	2TX	GPRS	Left	17mm	\	30.57	31.50	0.078	0.10	0.052	0.06	0.08
2	sensor off	GSM850	190	836.6	2TX	GPRS	Right	0mm	\	30.57	31.50	0.249	0.31	0.135	0.17	-0.17
2	sensor off	GSM850	190	836.6	2TX	GPRS	Bottom	0mm	\	30.57	31.50	0.101	0.13	0.054	0.07	-0.03
2	sensor off	GSM850	190	836.6	2TX	GPRS	Top	24mm	\	30.57	31.50	0.188	0.23	0.136	0.17	0.14
2	sensor off	GSM850	190	836.6	2TX	EGPRS	Rear	20mm	\	30.55	31.50	0.346	0.43	0.218	0.27	0.04
2	Body	GSM850	190	836.6	2TX	GPRS	Front	0mm	\	22.36	23.50	0.361	0.47	0.198	0.26	0.15
2	Body	GSM850	251	848.8	2TX	GPRS	Rear	0mm	\	22.42	23.50	0.511	0.66	0.242	0.31	-0.12
2	Body	GSM850	190	836.6	2TX	GPRS	Rear	0mm	\	22.36	23.50	0.597	0.78	0.283	0.37	-0.01
2	Body	GSM850	128	824.2	2TX	GPRS	Rear	0mm	F.2	22.46	23.50	0.613	0.78	0.297	0.38	0.19
2	Body	GSM850	190	836.6	2TX	GPRS	left	0mm	\	22.36	23.50	0.2	0.26	0.081	0.11	-0.11
2	Body	GSM850	190	836.6	2TX	GPRS	Top	0mm	\	22.36	23.50	0.229	0.30	0.098	0.13	-0.13
2	Body	GSM850	128	824.2	2TX	EGPRS	Rear	0mm	\	22.40	23.50	0.599	0.77	0.281	0.36	0.12
2	Head	GSM1900	661	1880	2TX	GPRS	Cheek Left	0mm	\	18.03	19.00	0.182	0.23	0.08	0.10	-0.05
2	Head	GSM1900	661	1880	2TX	GPRS	Tilt Left	0mm	\	18.03	19.00	0.154	0.19	0.073	0.09	0.01
2	Head	GSM1900	661	1880	2TX	GPRS	Cheek Right	0mm	\	17.94	19.00	0.235	0.30	0.106	0.14	0.1
2	Head	GSM1900	810	1909.8	2TX	GPRS	Tilt Right	0mm	\	18.03	19.00	0.29	0.36	0.129	0.16	-0.17
2	Head	GSM1900	661	1880	2TX	GPRS	Tilt Right	0mm	\	18.09	19.00	0.261	0.32	0.123	0.15	0.04
2	Head	GSM1900	512	1850.2	2TX	GPRS	Tilt Right	0mm	F.3	18.05	19.00	0.304	0.38	0.135	0.17	0.13
2	Head	GSM1900	512	1850.2	2TX	EGPRS	Tilt Right	0mm	\	18.05	19.00	0.303	0.38	0.133	0.17	-0.01
2	sensor off	GSM1900	810	1909.8	2TX	GPRS	Front	17mm	\	27.39	28.50	0.184	0.24	0.101	0.13	-0.08
2	sensor off	GSM1900	661	1880	2TX	GPRS	Front	17mm	\	27.46	28.50	0.241	0.31	0.134	0.17	0.03
2	sensor off	GSM1900	512	1850.2	2TX	GPRS	Front	17mm	\	27.56	28.50	0.205	0.25	0.118	0.15	0.05
2	sensor off	GSM1900	661	1880	2TX	GPRS	Rear	20mm	\	27.46	28.50	0.159	0.20	0.091	0.12	0.06
2	sensor off	GSM1900	661	1880	2TX	GPRS	Left	17mm	\	27.46	28.50	0.048	0.06	0.03	0.04	-0.09
2	sensor off	GSM1900	661	1880	2TX	GPRS	Right	0mm	\	27.46	28.50	0.057	0.07	0.026	0.03	-0.08
2	sensor off	GSM1900	661	1880	2TX	GPRS	Bottom	0mm	\	27.46	28.50	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	GSM1900	661	1880	2TX	GPRS	Top	24mm	\	27.46	28.50	0.231	0.29	0.13	0.17	0.13
2	sensor off	GSM1900	661	1880	2TX	EGPRS	Front	17mm	\	27.45	28.50	0.211	0.27	0.114	0.15	0.08
2	Body	GSM1900	661	1880	2TX	GPRS	Front	0mm	\	18.03	19.00	0.267	0.33	0.111	0.14	0.12
2	Body	GSM1900	810	1909.8	2TX	GPRS	Rear	0mm	\	17.94	19.00	0.299	0.38	0.127	0.16	0.03
2	Body	GSM1900	661	1880	2TX	GPRS	Rear	0mm	\	18.03	19.00	0.288	0.36	0.129	0.16	0.18
2	Body	GSM1900	512	1850.2	2TX	GPRS	Rear	0mm	F.4	18.09	19.00	0.329	0.41	0.134	0.17	0
2	Body	GSM1900	661	1880	2TX	GPRS	left	0mm	\	18.03	19.00	0.057	0.07	0.022	0.03	0.16
2	Body	GSM1900	661	1880	2TX	GPRS	Top	0mm	\	18.03	19.00	0.225	0.28	0.079	0.10	-0.1
2	Body	GSM1900	512	1850.2	2TX	EGPRS	Rear	0mm	\	18.05	19.00	0.311	0.39	0.128	0.16	0.07
2	Head	WCDMA1900	9400	1880	\	RMC	Cheek Left	0mm	\	12.04	13.00	0.252	0.31	0.111	0.14	0.18
2	Head	WCDMA1900	9400	1880	\	RMC	Tilt Left	0mm	\	12.04	13.00	0.266	0.33	0.117	0.15	-0.1
2	Head	WCDMA1900	9400	1880	\	RMC	Cheek Right	0mm	\	12.04	13.00	0.312	0.39	0.141	0.18	0.01
2	Head	WCDMA1900	9538	1907.6	\	RMC	Tilt Right	0mm	\	12.07	13.00	0.346	0.43	0.152	0.19	-0.15
2	Head	WCDMA1900	9400	1880	\	RMC	Tilt Right	0mm	F.5	12.04	13.00	0.364	0.45	0.162	0.20	-0.05
2	Head	WCDMA1900	9262	1852.4	\	RMC	Tilt Right	0mm	\	12.11	13.00	0.322	0.40	0.14	0.17	0.19
2	sensor off	WCDMA1900	9400	1880	\	RMC	Front	17mm	\	23.94	25.00	0.473	0.60	0.272	0.35	0
2	sensor off	WCDMA1900	9400	1880	\	RMC	Rear	20mm	\	23.94	25.00	0.316	0.40	0.189	0.24	0.07
2	sensor off	WCDMA1900	9400	1880	\	RMC	Left	17mm	\	23.94	25.00	0.086	0.11	0.056	0.07	-0.18
2	sensor off	WCDMA1900	9400	1880	\	RMC	Right	0mm	\	23.94	25.00	0.102	0.13	0.052	0.07	0.03
2	sensor off	WCDMA1900	9400	1880	\	RMC	Bottom	0mm	\	23.94	25.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	WCDMA1900	9538	1907.6	\	RMC	Top	24mm	F.6	23.96	25.00	0.57	0.72	0.337	0.43	0.06
2	sensor off	WCDMA1900	9400	1880	\	RMC	Top	24mm	\	23.94	25.00	0.508	0.65	0.305	0.39	-0.15
2	sensor off	WCDMA1900	9262	1852.4	\	RMC	Top	24mm	\	23.98	25.00	0.418	0.53	0.252	0.32	-0.15
2	Body	WCDMA1900	9400	1880	\	RMC	Front	0mm	\	12.04	13.00	0.372	0.46	0.16	0.20	0.11
2	Body	WCDMA1900	9538	1907.6	\	RMC	Rear	0mm	\	12.07	13.00	0.406	0.50	0.183	0.23	0.12
2	Body	WCDMA1900	9400	1880	\	RMC	Rear	0mm	\	12.04	13.00	0.378	0.47	0.171	0.21	-0.08
2	Body	WCDMA1900	9262	1852.4	\	RMC	Rear	0mm	\	12.11	13.00	0.364	0.45	0.154	0.19	-0.17
2	Body	WCDMA1900	9262	1852.4	\	RMC	left	0mm	\	12.04	13.00	0.065	0.08	0.029	0.04	-0.08
2	Body	WCDMA1900	9400	1880	\	RMC	Top	0mm	\	12.04	13.00	0.265	0.33	0.101	0.13	-0.04
2	Head	WCDMA1700	1412	1732.4	\	RMC	Cheek Left	0mm	\	12.14	13.00	0.172	0.21	0.077	0.09	-0.08
2	Head	WCDMA1700	1412	1732.4	\	RMC	Tilt Left	0mm	\	12.14	13.00	0.198	0.24	0.088	0.11	0.17
2	Head	WCDMA1700	1412	1732.4	\	RMC	Cheek Right	0mm	\	12.14	13.00	0.258	0.31	0.118	0.14	0.18
2	Head	WCDMA1700	1312	1712.4	\	RMC	Tilt Right	0mm	\	12.17	13.00	0.174	0.21	0.076	0.09	-0.04
2	Head	WCDMA1700	1412	1732.4	\	RMC	Tilt Right	0mm	F.7	12.14	13.00	0.272	0.33	0.121	0.15	0.16
2	Head	WCDMA1700	1513	1752.6	\	RMC	Tilt Right	0mm	\	12.15	13.00	0.244	0.30	0.107	0.13	-0.08
2	sensor off	WCDMA1700	1513	1752.6	\	RMC	Front	17mm	\	24.17	25.00	0.34	0.41	0.202	0.24	-0.13
2	sensor off	WCDMA1700	1412	1732.4	\	RMC	Front	17mm	\	24.11	25.00	0.391	0.48	0.235	0.29	-0.02
2	sensor off	WCDMA1700	1312	1712.4	\	RMC	Front	17mm	\	24.13	25.00	0.385	0.47	0.227	0.28	-0.13
2	sensor off	WCDMA1700	1412	1732.4	\	RMC	Rear	20mm	\	24.11	25.00	0.293	0.36	0.177	0.22	0.06
2	sensor off	WCDMA1700	1412	1732.4	\	RMC	Left	17mm	\	24.11	25.00	0.116	0.14	0.073	0.09	-0.03
2	sensor off	WCDMA1700	1412	1732.4	\	RMC	Right	0mm	\	24.11	25.00	0.09	0.11	0.047	0.06	-0.03
2	sensor off	WCDMA1700	1412	1732.4	\	RMC	Bottom	0mm	\	24.11	25.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	WCDMA1700	1412	1732.4	\	RMC	Top	24mm	\	24.11	25.00	0.306	0.38	0.18	0.22	0.08
2	Body	WCDMA1700	1412	1732.4	\	RMC	Front	0mm	\	12.14	13.00	0.254	0.31	0.111	0.14	-0.07
2	Body	WCDMA1700	1513	1752.6	\	RMC	Rear	0mm	\	12.17	13.00	0.344	0.42	0.152	0.18	0.05
2	Body	WCDMA1700	1412	1732.4	\	RMC	Rear	0mm	F.8	12.14	13.00	0.427	0.52	0.17	0.21	0.19
2	Body	WCDMA1700	1312	1712.4	\	RMC	Rear	0mm	\	12.15	13.00	0.389	0.47	0.165	0.20	-0.11
2	Body	WCDMA1700	1312	1712.4	\	RMC	left	0mm		12.14	13.00	0.058	0.07	0.033	0.04	-0.12
2	Body	WCDMA1700	1412	1732.4	\	RMC	Top	0mm	\	12.14	13.00	0.275	0.34	0.096	0.12	0.03

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2	Head	WCDMA850	4183	836.6	\	RMC	Cheek Left	0mm	\	15.13	16.00	0.197	0.24	0.13	0.16	-0.16
2	Head	WCDMA850	4183	836.6	\	RMC	Tilt Left	0mm	\	15.13	16.00	0.169	0.21	0.109	0.13	-0.02
2	Head	WCDMA850	4233	846.6	\	RMC	Cheek Right	0mm	\	15.21	16.00	0.219	0.26	0.124	0.15	0.15
2	Head	WCDMA850	4183	836.6	\	RMC	Cheek Right	0mm	F.9	15.13	16.00	0.272	0.33	0.153	0.19	-0.07
2	Head	WCDMA850	4132	826.4	\	RMC	Cheek Right	0mm	\	15.22	16.00	0.259	0.31	0.149	0.18	-0.09
2	Head	WCDMA850	4183	836.6	\	RMC	Tilt Right	0mm	\	15.13	16.00	0.217	0.27	0.123	0.15	0.11
2	sensor off	WCDMA850	4183	836.6	\	RMC	Front	17mm	\	24.03	25.00	0.278	0.35	0.188	0.24	-0.05
2	sensor off	WCDMA850	4233	846.6	\	RMC	Rear	20mm	\	24.25	25.00	0.305	0.36	0.208	0.25	-0.08
2	sensor off	WCDMA850	4183	836.6	\	RMC	Rear	20mm	\	24.03	25.00	0.319	0.40	0.213	0.27	0.16
2	sensor off	WCDMA850	4132	826.4	\	RMC	Rear	20mm	\	24.16	25.00	0.345	0.42	0.226	0.27	0.07
2	sensor off	WCDMA850	4183	836.6	\	RMC	Left	17mm	\	24.03	25.00	0.058	0.07	0.037	0.05	0.05
2	sensor off	WCDMA850	4183	836.6	\	RMC	Right	0mm	\	24.03	25.00	0.259	0.32	0.128	0.16	0.05
2	sensor off	WCDMA850	4183	836.6	\	RMC	Bottom	0mm	\	24.03	25.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	WCDMA850	4183	836.6	\	RMC	Top	24mm	\	24.03	25.00	0.205	0.26	0.134	0.17	-0.03
2	Body	WCDMA850	4183	836.6	\	RMC	Front	0mm	\	15.13	16.00	0.286	0.35	0.143	0.17	-0.15
2	Body	WCDMA850	4132	826.4	\	RMC	Rear	0mm	\	15.21	16.00	0.424	0.51	0.204	0.24	0.02
2	Body	WCDMA850	4183	836.6	\	RMC	Rear	0mm	F.10	15.13	16.00	0.537	0.66	0.241	0.29	0.13
2	Body	WCDMA850	4233	846.6	\	RMC	Rear	0mm	\	15.22	16.00	0.394	0.47	0.187	0.22	0.07
2	Body	WCDMA850	4233	846.6	\	RMC	left	0mm	\	15.13	16.00	0.133	0.16	0.055	0.07	0.16
2	Body	WCDMA850	4183	836.6	\	RMC	Top	0mm	\	15.13	16.00	0.212	0.26	0.095	0.12	0.13
2	Head	LTE B2	18900	1880	1RB-Middle	QPSK	Cheek Left	0mm	\	12.12	13.00	0.24	0.29	0.106	0.13	-0.18
2	Head	LTE B2	18900	1880	1RB-Middle	QPSK	Tilt Left	0mm	\	12.12	13.00	0.271	0.33	0.119	0.15	0.02
2	Head	LTE B2	18900	1880	1RB-Middle	QPSK	Cheek Right	0mm	\	12.12	13.00	0.363	0.44	0.146	0.18	0.16
2	Head	LTE B2	18900	1880	1RB-Middle	QPSK	Tilt Right	0mm	\	12.12	13.00	0.35	0.43	0.159	0.19	-0.03
2	Head	LTE B2	18900	1880	50RB-Middle	QPSK	Cheek Left	0mm	\	12.15	13.00	0.26	0.32	0.112	0.14	0.07
2	Head	LTE B2	18900	1880	50RB-Middle	QPSK	Tilt Left	0mm	\	12.15	13.00	0.293	0.36	0.126	0.15	0
2	Head	LTE B2	18900	1880	50RB-Middle	QPSK	Cheek Right	0mm	\	12.15	13.00	0.317	0.39	0.14	0.17	0.01
2	Head	LTE B2	18900	1880	50RB-Middle	QPSK	Tilt Right	0mm	F.11	12.15	13.00	0.366	0.45	0.163	0.20	0.19
2	Head	LTE B2	18900	1880	50RB-Middle	QPSK	Tilt Right	0mm	B2	12.15	13.00	0.355	0.43	0.158	0.19	0.04
2	sensor off	LTE B2	18900	1880	1RB-Middle	QPSK	Front	17mm	\	23.57	24.50	0.428	0.53	0.245	0.30	0.07
2	sensor off	LTE B2	18900	1880	1RB-Middle	QPSK	Rear	20mm	\	23.57	24.50	0.284	0.35	0.168	0.21	-0.01
2	sensor off	LTE B2	18900	1880	1RB-Middle	QPSK	Left	17mm	\	23.57	24.50	0.093	0.12	0.059	0.07	-0.06
2	sensor off	LTE B2	18900	1880	1RB-Middle	QPSK	Right	0mm	\	23.57	24.50	0.095	0.12	0.045	0.06	-0.04
2	sensor off	LTE B2	18900	1880	1RB-Middle	QPSK	Bottom	0mm	\	23.57	24.50	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B2	18900	1880	1RB-Middle	QPSK	Top	24mm	\	23.57	24.50	0.501	0.62	0.299	0.37	-0.03
2	sensor off	LTE B2	18900	1880	50RB-Middle	QPSK	Front	17mm	\	22.63	23.50	0.331	0.40	0.187	0.23	-0.1
2	sensor off	LTE B2	18900	1880	50RB-Middle	QPSK	Rear	20mm	\	22.63	23.50	0.227	0.28	0.134	0.16	0.18
2	sensor off	LTE B2	18900	1880	50RB-Middle	QPSK	Left	17mm	\	22.63	23.50	0.075	0.09	0.047	0.06	-0.17
2	sensor off	LTE B2	18900	1880	50RB-Middle	QPSK	Right	0mm	\	22.63	23.50	0.075	0.09	0.035	0.04	-0.04
2	sensor off	LTE B2	18900	1880	50RB-Middle	QPSK	Bottom	0mm	\	22.63	23.50	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B2	18900	1880	50RB-Middle	QPSK	Top	24mm	\	22.63	23.50	0.402	0.49	0.24	0.29	-0.05
2	Body	LTE B2	18900	1880	1RB-Middle	QPSK	Front	0mm	\	12.12	13.00	0.4	0.49	0.171	0.21	-0.13
2	Body	LTE B2	19100	1900	1RB-Middle	QPSK	Rear	0mm	F.12	12.11	13.00	0.523	0.64	0.211	0.26	0.03
2	Body	LTE B2	18900	1880	1RB-Middle	QPSK	Rear	0mm	\	12.12	13.00	0.495	0.61	0.196	0.24	-0.01
2	Body	LTE B2	18700	1860	1RB-Middle	QPSK	Rear	0mm	\	12.08	13.00	0.466	0.58	0.185	0.23	-0.09
2	Body	LTE B2	18900	1880	1RB-Middle	QPSK	left	0mm	\	12.12	13.00	0.082	0.10	0.035	0.04	0.05
2	Body	LTE B2	18900	1880	1RB-Middle	QPSK	Top	0mm	\	12.12	13.00	0.315	0.39	0.112	0.14	0.02
2	Body	LTE B2	18900	1880	50RB-Middle	QPSK	Front	0mm	\	12.15	13.00	0.383	0.47	0.163	0.20	-0.13
2	Body	LTE B2	18900	1880	50RB-Middle	QPSK	Rear	0mm	\	12.15	13.00	0.488	0.59	0.189	0.23	0.17
2	Body	LTE B2	18900	1880	50RB-Middle	QPSK	left	0mm		12.15	13.00	0.079	0.10	0.031	0.04	0.06
2	Body	LTE B2	18900	1880	50RB-Middle	QPSK	Top	0mm	\	12.15	13.00	0.233	0.28	0.103	0.13	0
2	Head	LTE B5	20525	836.5	1RB-Middle	QPSK	Cheek Left	0mm	\	15.22	16.00	0.205	0.25	0.133	0.16	-0.04
2	Head	LTE B5	20525	836.5	1RB-Middle	QPSK	Tilt Left	0mm	\	15.22	16.00	0.179	0.21	0.114	0.14	-0.15
2	Head	LTE B5	20525	836.5	1RB-Middle	QPSK	Cheek Right	0mm	\	15.22	16.00	0.267	0.32	0.151	0.18	0.11
2	Head	LTE B5	20525	836.5	1RB-Middle	QPSK	Tilt Right	0mm	\	15.22	16.00	0.219	0.26	0.124	0.15	-0.02
2	Head	LTE B5	20525	836.5	25RB-Middle	QPSK	Cheek Left	0mm	\	15.21	16.00	0.196	0.24	0.125	0.15	0.1
2	Head	LTE B5	20525	836.5	25RB-Middle	QPSK	Tilt Left	0mm	\	15.21	16.00	0.174	0.21	0.109	0.13	0.04
2	Head	LTE B5	20525	836.5	25RB-Middle	QPSK	Cheek Right	0mm	F.13	15.21	16.00	0.276	0.33	0.154	0.18	-0.03
2	Head	LTE B5	20525	836.5	25RB-Middle	QPSK	Tilt Right	0mm	\	15.21	16.00	0.22	0.26	0.123	0.15	0.13
2	sensor off	LTE B5	20525	836.5	1RB-Middle	QPSK	Front	17mm	\	24.01	25.00	0.283	0.36	0.2	0.25	-0.18
2	sensor off	LTE B5	20600	844	1RB-Middle	QPSK	Rear	20mm	\	23.92	25.00	0.407	0.52	0.274	0.35	-0.11
2	sensor off	LTE B5	20525	836.5	1RB-Middle	QPSK	Rear	20mm	\	24.01	25.00	0.352	0.44	0.24	0.30	-0.16
2	sensor off	LTE B5	20450	829	1RB-Middle	QPSK	Rear	20mm	\	23.97	25.00	0.416	0.53	0.281	0.36	0.02
2	sensor off	LTE B5	20525	836.5	1RB-Middle	QPSK	Left	17mm	\	24.01	25.00	0.061	0.08	0.037	0.05	-0.15
2	sensor off	LTE B5	20525	836.5	1RB-Middle	QPSK	Right	0mm	\	24.01	25.00	0.188	0.24	0.109	0.14	-0.06
2	sensor off	LTE B5	20525	836.5	1RB-Middle	QPSK	Bottom	0mm	\	24.01	25.00	0.055	0.07	0.033	0.04	-0.14
2	sensor off	LTE B5	20525	836.5	1RB-Middle	QPSK	Top	24mm	\	24.01	25.00	0.211	0.27	0.149	0.19	-0.19
2	sensor off	LTE B5	20525	836.5	25RB-Middle	QPSK	Front	17mm	\	22.99	24.00	0.266	0.34	0.187	0.24	0.01
2	sensor off	LTE B5	20525	836.5	25RB-Middle	QPSK	Rear	20mm	\	22.99	24.00	0.33	0.42	0.223	0.28	0.06
2	sensor off	LTE B5	20525	836.5	25RB-Middle	QPSK	Left	17mm	\	22.99	24.00	0.07	0.09	0.042	0.05	0.02
2	sensor off	LTE B5	20525	836.5	25RB-Middle	QPSK	Right	0mm	\	22.99	24.00	0.231	0.29	0.13	0.16	0.12
2	sensor off	LTE B5	20525	836.5	25RB-Middle	QPSK	Bottom	0mm	\	22.99	24.00	0.061	0.08	0.034	0.04	-0.16
2	sensor off	LTE B5	20525	836.5	25RB-Middle	QPSK	Top	24mm	\	22.99	24.00	0.22	0.28	0.155	0.20	-0.12
2	Body	LTE B5	20525	836.5	1RB-Middle	QPSK	Front	0mm	\	15.22	16.00	0.385	0.46	0.193	0.23	0.07
2	Body	LTE B5	20525	836.5	1RB-Middle	QPSK	Rear	0mm	\	15.22	16.00	0.654	0.78	0.304	0.36	-0.02
2	Body	LTE B5	20525	836.5	2RB-Middle	QPSK	left	0mm	\	15.22	16.00	0.133	0.16	0.062	0.07	-0.05
2	Body	LTE B5	20525	836.5	1RB-Middle	QPSK	Top	0mm	\	15.22	16.00	0.278	0.33	0.135	0.16	-0.13
2	Body	LTE B5	20525	836.5	25RB-Middle	QPSK	Front	0mm	\	15.21	16.00	0.381	0.46	0.2	0.24	0.08
2	Body	LTE B5	20600	844	25RB-Middle	QPSK	Rear	0mm	\	15.20	16.00	0.679	0.82	0.299	0.36	0.16
2	Body	LTE B5	20525	836.5	25RB-Middle	QPSK	Rear	0mm	\	15.21	16.00	0.659	0.79	0.303	0.36	0.01
2	Body	LTE B5	20450	829	25RB-Middle	QPSK	Rear	0mm	F.14	15.13	16.00	0.726	0.89	0.323	0.39	0.19
2	Body	LTE B5	20525	836.5	24RB-Middle	QPSK	left	0mm	\	15.21	16.00	0.14	0.17	0.069	0.08	-0.16
2	Body	LTE B5	20525	836.5	25RB-Middle	QPSK	Top	0mm	\	15.21	16.00	0.318	0.38	0.148	0.18	0.1
2	Body	LTE B5	20450	829	50RB	QPSK	Rear	0mm	\	15.06	16.00	0.628	0.78	0.282	0.35	-0.04

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1	Head	LTE B7	21100	2535	1RB-Middle	QPSK	Cheek Left	0mm	\	9.21	10.00	0.03	0.04	0.014	0.02	-0.01
1	Head	LTE B7	21100	2535	1RB-Middle	QPSK	Tilt Left	0mm	\	9.21	10.00	<0.01	<0.01	<0.01	<0.01	\
1	Head	LTE B7	21100	2535	1RB-Middle	QPSK	Cheek Right	0mm	\	9.21	10.00	0.041	0.05	0.021	0.03	0
1	Head	LTE B7	21100	2535	1RB-Middle	QPSK	Tilt Right	0mm	F.15	9.21	10.00	0.068	0.08	0.031	0.04	0.15
1	Head	LTE B7	21100	2535	50RB-Middle	QPSK	Cheek Left	0mm	\	9.23	10.00	<0.01	<0.01	<0.01	<0.01	\
1	Head	LTE B7	21100	2535	50RB-Middle	QPSK	Tilt Left	0mm	\	9.23	10.00	<0.01	<0.01	<0.01	<0.01	\
1	Head	LTE B7	21100	2535	50RB-Middle	QPSK	Cheek Right	0mm	\	9.23	10.00	0.066	0.08	0.029	0.03	-0.11
1	Head	LTE B7	21100	2535	50RB-Middle	QPSK	Tilt Right	0mm	\	9.23	10.00	0.057	0.07	0.026	0.03	-0.06
1	Head	LTE B7	21100	2535	1RB-Middle	QPSK	Tilt Right	0mm	ULCA	9.21	10.00	0.044	0.05	0.027	0.03	0.05
1	sensor off	LTE B7	21100	2535	1RB-Middle	QPSK	Front	16mm	\	24.07	25.00	0.637	0.79	0.361	0.45	-0.15
1	sensor off	LTE B7	21100	2535	1RB-Middle	QPSK	Rear	18mm	\	24.07	25.00	0.588	0.73	0.322	0.40	0.03
1	sensor off	LTE B7	21350	2560	1RB-Middle	QPSK	Left	17mm	\	23.82	25.00	0.637	0.84	0.358	0.47	-0.13
1	sensor off	LTE B7	21100	2535	1RB-Middle	QPSK	Left	17mm	\	24.07	25.00	0.706	0.87	0.4	0.50	0.16
1	sensor off	LTE B7	20850	2510	1RB-Middle	QPSK	Left	17mm	F.16	24.02	25.00	0.724	0.91	0.405	0.51	-0.19
1	sensor off	LTE B7	21100	2535	1RB-Middle	QPSK	Right	0mm	\	24.07	25.00	0.048	0.06	0.021	0.03	-0.15
1	sensor off	LTE B7	21100	2535	1RB-Middle	QPSK	Bottom	0mm	\	24.07	25.00	<0.01	<0.01	<0.01	<0.01	\
1	sensor off	LTE B7	21100	2535	1RB-Middle	QPSK	Top	17mm	\	24.07	25.00	0.179	0.22	0.101	0.13	-0.02
1	sensor off	LTE B7	21100	2535	50RB-Middle	QPSK	Front	16mm	\	23.05	24.00	0.511	0.64	0.292	0.36	-0.09
1	sensor off	LTE B7	21100	2535	50RB-Middle	QPSK	Rear	18mm	\	23.05	24.00	0.462	0.57	0.253	0.31	0.14
1	sensor off	LTE B7	21100	2535	50RB-Middle	QPSK	Left	17mm	\	23.05	24.00	0.551	0.69	0.312	0.39	0.1
1	sensor off	LTE B7	21100	2535	50RB-Middle	QPSK	Right	0mm	\	23.05	24.00	0.04	0.05	0.017	0.02	-0.09
1	sensor off	LTE B7	21100	2535	50RB-Middle	QPSK	Bottom	0mm	\	23.05	24.00	<0.01	<0.01	<0.01	<0.01	\
1	sensor off	LTE B7	21100	2535	50RB-Middle	QPSK	Top	17mm	\	23.05	24.00	0.129	0.16	0.074	0.09	0.07
1	sensor off	LTE B7	21100	2535	100RB	QPSK	Left	17mm	\	22.97	24.00	0.59	0.75	0.33	0.42	-0.09
1	sensor off	LTE B7	20850	2510	1RB-Middle	QPSK	Left	17mm	B2	24.02	25.00	0.711	0.89	0.389	0.49	0.04
1	sensor off	LTE B7	20850	2510	1RB-Middle	QPSK	Left	17mm	ULCA	24.02	25.00	0.708	0.89	0.381	0.48	0.08
1	Body	LTE B7	21100	2535	1RB-Middle	QPSK	Front	0mm	\	9.21	10.00	0.399	0.48	0.163	0.20	-0.16
1	Body	LTE B7	21350	2560	1RB-Middle	QPSK	Rear	0mm	\	8.95	10.00	0.634	0.81	0.203	0.26	-0.18
1	Body	LTE B7	21100	2535	1RB-Middle	QPSK	Rear	0mm	\	9.21	10.00	0.712	0.85	0.254	0.30	0
1	Body	LTE B7	20850	2510	1RB-Middle	QPSK	Rear	0mm	\	9.20	10.00	0.645	0.78	0.207	0.25	-0.07
1	Body	LTE B7	21100	2535	1RB-Middle	QPSK	Left	0mm	\	9.21	10.00	0.659	0.79	0.215	0.26	0.11
1	Body	LTE B7	21100	2535	1RB-Middle	QPSK	Top	0mm	\	9.21	10.00	0.053	0.06	0.021	0.03	-0.08
1	Body	LTE B7	21100	2535	50RB-Middle	QPSK	Front	0mm	\	9.23	10.00	0.363	0.43	0.148	0.18	-0.1
1	Body	LTE B7	21100	2535	50RB-Middle	QPSK	Rear	0mm	\	9.23	10.00	0.641	0.77	0.248	0.30	-0.01
1	Body	LTE B7	21100	2535	50RB-Middle	QPSK	Left	0mm	\	9.23	10.00	0.588	0.70	0.198	0.24	-0.09
1	Body	LTE B7	21100	2535	50RB-Middle	QPSK	Top	0mm	\	9.23	10.00	0.056	0.07	0.023	0.03	-0.06
	Body	LTE B7	21100	2535	100RB	QPSK	Rear	0mm	\	9.12	10.00	0.62	0.76	0.204	0.25	-0.17
2	Head	LTE B12	23095	707.5	1RB-Middle	QPSK	Cheek Left	0mm	\	13.95	15.00	0.132	0.17	0.081	0.10	-0.01
2	Head	LTE B12	23095	707.5	1RB-Middle	QPSK	Tilt Left	0mm	\	13.95	15.00	0.118	0.15	0.072	0.09	-0.11
2	Head	LTE B12	23130	711	1RB-Middle	QPSK	Cheek Right	0mm	F.17	13.88	15.00	0.151	0.20	0.084	0.11	0.05
2	Head	LTE B12	23095	707.5	1RB-Middle	QPSK	Cheek Right	0mm	\	13.95	15.00	0.144	0.18	0.078	0.10	0.14
2	Head	LTE B12	23060	704	1RB-Middle	QPSK	Cheek Right	0mm	\	13.93	15.00	0.148	0.19	0.08	0.10	0.03
2	Head	LTE B12	23095	707.5	1RB-Middle	QPSK	Tilt Right	0mm	\	13.95	15.00	0.131	0.17	0.069	0.09	0.1
2	Head	LTE B12	23095	707.5	25RB-Middle	QPSK	Cheek Left	0mm	\	13.92	15.00	0.125	0.16	0.077	0.10	0.16
2	Head	LTE B12	23095	707.5	25RB-Middle	QPSK	Tilt Left	0mm	\	13.92	15.00	0.113	0.14	0.067	0.09	-0.06
2	Head	LTE B12	23095	707.5	25RB-Middle	QPSK	Cheek Right	0mm	\	13.92	15.00	0.147	0.19	0.08	0.10	0.02
2	Head	LTE B12	23095	707.5	25RB-Middle	QPSK	Tilt Right	0mm	\	13.92	15.00	0.129	0.17	0.067	0.09	-0.16
2	sensor off	LTE B12	23060	704	1RB-Middle	QPSK	Front	17mm	\	23.87	25.00	0.133	0.17	0.084	0.11	0.05
2	sensor off	LTE B12	23130	711	1RB-Middle	QPSK	Rear	20mm	\	23.82	25.00	0.173	0.23	0.115	0.15	0.09
2	sensor off	LTE B12	23095	707.5	1RB-Middle	QPSK	Rear	20mm	\	23.87	25.00	0.17	0.22	0.109	0.14	-0.03
2	sensor off	LTE B12	23060	704	1RB-Middle	QPSK	Rear	20mm	\	23.86	25.00	0.146	0.19	0.091	0.12	0.17
2	sensor off	LTE B12	23095	707.5	1RB-Middle	QPSK	Left	17mm	\	23.87	25.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B12	23095	707.5	1RB-Middle	QPSK	Right	0mm	\	23.87	25.00	0.129	0.17	0.06	0.08	-0.15
2	sensor off	LTE B12	23095	707.5	1RB-Middle	QPSK	Bottom	0mm	\	23.87	25.00	0.061	0.08	0.028	0.04	0.16
2	sensor off	LTE B12	23095	707.5	1RB-Middle	QPSK	Top	24mm	\	23.87	25.00	0.111	0.14	0.072	0.09	0.05
2	sensor off	LTE B12	23095	707.5	25RB-Middle	QPSK	Front	17mm	\	22.85	24.00	0.099	0.13	0.069	0.09	-0.06
2	sensor off	LTE B12	23095	707.5	25RB-Middle	QPSK	Rear	20mm	\	22.85	24.00	0.124	0.16	0.085	0.11	-0.13
2	sensor off	LTE B12	23095	707.5	25RB-Middle	QPSK	Left	17mm	\	22.85	24.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B12	23095	707.5	25RB-Middle	QPSK	Right	0mm	\	22.85	24.00	0.112	0.15	0.056	0.07	-0.01
2	sensor off	LTE B12	23095	707.5	25RB-Middle	QPSK	Bottom	0mm	\	22.85	24.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B12	23095	707.5	25RB-Middle	QPSK	Top	24mm	\	22.85	24.00	0.081	0.11	0.052	0.07	-0.11
2	Body	LTE B12	23095	707.5	1RB-Middle	QPSK	Front	0mm	\	13.95	15.00	0.203	0.26	0.081	0.10	0.19
2	Body	LTE B12	23095	707.5	1RB-Middle	QPSK	Rear	0mm	\	13.95	15.00	0.451	0.57	0.188	0.24	-0.14
2	Body	LTE B12	23095	707.5	1RB-Middle	QPSK	left	0mm	\	13.95	15.00	0.036	0.05	0.017	0.02	-0.18
2	Body	LTE B12	23095	707.5	1RB-Middle	QPSK	Top	0mm	\	13.95	15.00	0.201	0.26	0.098	0.12	-0.06
2	Body	LTE B12	23095	707.5	25RB-Middle	QPSK	Front	0mm	\	13.92	15.00	0.25	0.32	0.114	0.15	0.02
2	Body	LTE B12	23095	707.5	25RB-Middle	QPSK	Rear	0mm	F.18	13.92	15.00	0.471	0.60	0.207	0.27	0.13
2	Body	LTE B12	23095	707.5	25RB-Middle	QPSK	left	0mm	\	13.92	15.00	0.037	0.05	0.018	0.02	0.16
2	Body	LTE B12	23095	707.5	25RB-Middle	QPSK	Top	0mm	\	13.92	15.00	0.208	0.27	0.089	0.11	0.01
2	Head	LTE B26	26865	831.5	1RB-Middle	QPSK	Cheek Left	0mm	\	15.01	16.00	0.207	0.26	0.135	0.17	-0.04
2	Head	LTE B26	26865	831.5	1RB-Middle	QPSK	Tilt Left	0mm	\	15.01	16.00	0.173	0.22	0.113	0.14	0.13
2	Head	LTE B26	26865	831.5	1RB-Middle	QPSK	Cheek Right	0mm	F.19	15.01	16.00	0.286	0.36	0.161	0.20	0.02
2	Head	LTE B26	26865	831.5	1RB-Middle	QPSK	Tilt Right	0mm	\	15.01	16.00	0.223	0.28	0.125	0.16	0.12
2	Head	LTE B26	26865	831.5	36RB-Middle	QPSK	Cheek Left	0mm	\	15.11	16.00	0.19	0.23	0.123	0.15	0.07
2	Head	LTE B26	26865	831.5	36RB-Middle	QPSK	Tilt Left	0mm	\	15.11	16.00	0.134	0.16	0.089	0.11	0.08
2	Head	LTE B26	26865	831.5	36RB-Middle	QPSK	Cheek Right	0mm	\	15.11	16.00	0.279	0.34	0.158	0.19	0.19
2	Head	LTE B26	26865	831.5	36RB-Middle	QPSK	Tilt Right	0mm	\	15.11	16.00	0.216	0.27	0.12	0.15	-0.06
2	sensor off	LTE B26	26865	831.5	1RB-Middle	QPSK	Front	17mm	\	24.11	25.00	0.388	0.48	0.273	0.34	0
2	sensor off	LTE B26	26865	831.5	1RB-Middle	QPSK	Rear	20mm	\	24.11	25.00	0.425	0.52	0.287	0.35	0.07
2	sensor off	LTE B26	26865	831.5	1RB-Middle	QPSK	Left	17mm	\	24.11	25.00	0.07	0.09	0.047	0.06	-0.03
2	sensor off	LTE B26	26865	831.5	1RB-Middle	QPSK	Right	0mm	\	24.11	25.00	0.329	0.40	0.171	0.21	0.07
2	sensor off	LTE B26	26865	831.5	1RB-Middle	QPSK	Bottom	0mm	\	24.11	25.00	0.055	0.07	0.028	0.03	-0.12
2	sensor off	LTE B26	26865	831.5	1RB-Middle	QPSK	Top	24mm	\	24.11	25.00	0.317	0.39	0.213	0.26	-0.03
2	sensor off	LTE B26	26865	831.5	36RB-Middle	QPSK	Front	17mm	\	23.12	24.00	0.31	0.38	0.218	0.27	0.02
2	sensor off	LTE B26	26865	831.5	36RB-Middle	QPSK	Rear	20mm	\	23.12	24.00	0.341	0.42	0.232	0.28	0.12
2	sensor off	LTE B26	26865	831.5	36RB-Middle	QPSK	Left	17mm	\	23.12	24.00	0.062	0.08	0.038	0.05	0.02
2	sensor off	LTE B26	26865	831.5	36RB-Middle	QPSK	Right	0mm	\	23.12	24.00	0.221	0.27	0.12	0.15	-0.03
2	sensor off	LTE B26	26865	831.5	36RB-Middle	QPSK	Bottom	0mm	\	23.12	24.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B26	26865	831.5	36RB-Middle	QPSK	Top	24mm	\	23.12	24.00	0.256	0.31	0.172	0.21	0
2	Body	LTE B26	26865	831.5	1RB-Middle	QPSK	Front	0mm	\	15.01	16.00	0.303	0.38	0.166	0.21	-0.1
2	Body	LTE B26	26965	841.5	1RB-Middle	QPSK	Rear	0mm	\	14.99	16.00	0.484	0.61	0.255	0.32	0.05
2	Body	LTE B26	26865	831.5	1RB-Middle	QPSK	Rear	0mm	\	15.01	16.00	0.523	0.66	0.255	0.32	0
2	Body	LTE B26	26775	822.5	1RB-Middle	QPSK	Rear	0mm	F.20	14.99	16.00	0.605	0.76	0.274	0.35	0.14
2	Body	LTE B26	26865	831.5	1RB-Middle	QPSK	left	0mm	\	15.01	16.00	0.132	0.17	0.061	0.08	0.07
2	Body	LTE B26	26865	831.5	1RB-Middle	QPSK	Top	0mm	\	15.01	16.00	0.244	0.31	0.116	0.15	-0.05
2	Body	LTE B26	26865	831.5	36RB-Middle	QPSK	Front	0mm	\	15.11	16.00	0.314	0.39	0.168	0.21	-0.08
2	Body	LTE B26	26865	831.5	36RB-Middle	QPSK	Rear	0mm	\	15.11	16.00	0.515	0.63	0.255	0.31	-0.13
2	Body	LTE B26	26865	831.5	36RB-Middle	QPSK	left	0mm	\	15.11	16.00	0.127	0.16	0.056	0.07	0.01
2	Body	LTE B26	26865	831.5	36RB-Middle	QPSK	Top	0mm	\	15.00	16.00	0.227	0.29	0.116	0.15	-0.11
2	Head	LTE B28	27460	728	1RB-Middle	QPSK	Cheek Left	0mm	\	13.86	15.00	0.145	0.19	0.089	0.12	0.14
2	Head	LTE B28	27460	728	1RB-Middle	QPSK	Tilt Left	0mm	\	13.86	15.00	0.128	0.17	0.078	0.10	-0.12
2	Head	LTE B28	27460	728	1RB-Middle	QPSK	Cheek Right	0mm	F.21	13.86	15.00	0.175	0.23	0.097	0.13	0.01
2	Head	LTE B28	27460	728	1RB-Middle	QPSK	Tilt Right	0mm	\	13.86	15.00	0.157	0.20	0.08	0.10	0.07
2	Head	LTE B28	27460	728	50RB-Middle	QPSK	Cheek Left	0mm	\	13.99	15.00	0.143	0.18	0.088	0.11	0.09
2	Head	LTE B28	27460	728	50RB-Middle	QPSK	Tilt Left	0mm	\	13.99	15.00	0.125	0.16	0.076	0.10	0.04
2	Head	LTE B28	27460	728	50RB-Middle	QPSK	Cheek Right	0mm	\	13.99	15.00	0.173	0.22	0.096	0.12	0.11
2	Head	LTE B28	27460	728	50RB-Middle	QPSK	Tilt Right	0mm	\	13.99	15.00	0.157	0.20	0.081	0.10	-0.13

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2	sensor off	LTE B28	27460	728	1RB-Middle	QPSK	Front	17mm	\	23.81	25.00	0.185	0.24	0.178	0.23	0.12
2	sensor off	LTE B28	27460	728	1RB-Middle	QPSK	Rear	20mm	\	23.81	25.00	0.328	0.43	0.214	0.28	-0.03
2	sensor off	LTE B28	27460	728	1RB-Middle	QPSK	Left	17mm	\	23.81	25.00	0.063	0.08	0.054	0.07	-0.16
2	sensor off	LTE B28	27460	728	1RB-Middle	QPSK	Right	0mm	\	23.81	25.00	0.194	0.26	0.105	0.14	-0.08
2	sensor off	LTE B28	27460	728	1RB-Middle	QPSK	Bottom	0mm	\	23.81	25.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B28	27460	728	1RB-Middle	QPSK	Top	24mm	\	23.81	25.00	0.124	0.16	0.114	0.15	-0.17
2	sensor off	LTE B28	27460	728	50RB-Middle	QPSK	Front	17mm	\	22.85	24.00	0.15	0.20	0.146	0.19	0.11
2	sensor off	LTE B28	27460	728	50RB-Middle	QPSK	Rear	20mm	\	22.85	24.00	0.184	0.24	0.17	0.22	-0.05
2	sensor off	LTE B28	27460	728	50RB-Middle	QPSK	Left	17mm	\	22.85	24.00	0.044	0.06	0.039	0.05	-0.01
2	sensor off	LTE B28	27460	728	50RB-Middle	QPSK	Right	0mm	\	22.85	24.00	0.244	0.32	0.157	0.20	-0.14
2	sensor off	LTE B28	27460	728	50RB-Middle	QPSK	Bottom	0mm	\	22.85	24.00	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B28	27460	728	50RB-Middle	QPSK	Top	24mm	\	22.85	24.00	0.097	0.13	0.089	0.12	-0.15
2	Body	LTE B28	27460	728	1RB-Middle	QPSK	Front	0mm	\	13.86	15.00	0.241	0.31	0.124	0.16	-0.12
2	Body	LTE B28	27460	728	1RB-Middle	QPSK	Rear	0mm	\	13.86	15.00	0.412	0.54	0.19	0.25	-0.17
2	Body	LTE B28	27460	728	1RB-Middle	QPSK	left	0mm	\	13.86	15.00	0.074	0.10	0.031	0.04	0.08
2	Body	LTE B28	27460	728	1RB-Middle	QPSK	Top	0mm	\	13.86	15.00	0.193	0.25	0.095	0.12	0.01
2	Body	LTE B28	27460	728	50RB-Middle	QPSK	Front	0mm	\	13.99	15.00	0.237	0.30	0.121	0.15	0.02
2	Body	LTE B28	27460	728	50RB-Middle	QPSK	Rear	0mm	F.22	13.99	15.00	0.46	0.58	0.202	0.25	0.18
2	Body	LTE B28	27460	728	50RB-Middle	QPSK	left	0mm	\	13.99	15.00	0.077	0.10	0.034	0.04	-0.11
2	Body	LTE B28	27460	728	50RB-Middle	QPSK	Top	0mm	\	13.99	15.00	0.188	0.24	0.083	0.10	-0.01
1	Head	LTE B41	40620	2593	1RB-Middle	QPSK	Cheek Left	0mm	\	10.77	11.50	<0.01	<0.01	<0.01	<0.01	\
1	Head	LTE B41	40620	2593	1RB-Middle	QPSK	Tilt Left	0mm	\	10.77	11.50	<0.01	<0.01	<0.01	<0.01	\
1	Head	LTE B41	40620	2593	1RB-Middle	QPSK	Cheek Right	0mm	F.23	10.77	11.50	0.037	0.04	0.016	0.02	0.19
1	Head	LTE B41	40620	2593	1RB-Middle	QPSK	Tilt Right	0mm	\	10.77	11.50	0.02	0.02	0.008	0.01	0.09
1	Head	LTE B41	40620	2593	50RB-Middle	QPSK	Cheek Left	0mm	\	10.65	11.50	<0.01	<0.01	<0.01	<0.01	\
1	Head	LTE B41	40620	2593	50RB-Middle	QPSK	Tilt Left	0mm	\	10.65	11.50	<0.01	<0.01	<0.01	<0.01	\
1	Head	LTE B41	40620	2593	50RB-Middle	QPSK	Cheek Right	0mm	\	10.65	11.50	0.026	0.03	0.012	0.01	0.1
1	Head	LTE B41	40620	2593	50RB-Middle	QPSK	Tilt Right	0mm	\	10.65	11.50	0.017	0.02	0.007	0.01	-0.04
1	sensor off	LTE B41	40620	2593	1RB-Middle	QPSK	Front	16mm	\	24.02	25.00	0.298	0.37	0.159	0.20	0.15
1	sensor off	LTE B41	40620	2593	1RB-Middle	QPSK	Rear	18mm	\	24.02	25.00	0.259	0.32	0.138	0.17	0.09
1	sensor off	LTE B41	41490	2680	1RB-Middle	QPSK	Left	17mm	\	23.96	25.00	0.413	0.52	0.222	0.28	-0.02
1	sensor off	LTE B41	41055	2636.5	1RB-Middle	QPSK	Left	17mm	\	23.97	25.00	0.326	0.41	0.178	0.23	-0.16
1	sensor off	LTE B41	40620	2593	1RB-Middle	QPSK	Left	17mm	\	24.02	25.00	0.334	0.42	0.177	0.22	0.05
1	sensor off	LTE B41	40185	2549.5	1RB-Middle	QPSK	Left	17mm	\	23.85	25.00	0.314	0.41	0.17	0.22	0.08
1	sensor off	LTE B41	39750	2506	1RB-Middle	QPSK	Left	17mm	\	23.99	25.00	0.376	0.47	0.207	0.26	-0.18
1	sensor off	LTE B41	40620	2593	1RB-Middle	QPSK	Right	0mm	\	24.02	25.00	<0.01	<0.01	<0.01	<0.01	\
1	sensor off	LTE B41	40620	2593	1RB-Middle	QPSK	Bottom	0mm	\	24.02	25.00	0.119	0.15	0.061	0.08	-0.03
1	sensor off	LTE B41	40620	2593	1RB-Middle	QPSK	Top	17mm	\	24.02	25.00	0.077	0.10	0.044	0.06	-0.04
1	sensor off	LTE B41	40620	2593	50RB-Middle	QPSK	Front	16mm	\	23.05	24.00	0.139	0.17	0.072	0.09	-0.09
1	sensor off	LTE B41	40620	2593	50RB-Middle	QPSK	Rear	18mm	\	23.05	24.00	0.213	0.27	0.112	0.14	0.18
1	sensor off	LTE B41	40620	2593	50RB-Middle	QPSK	Left	17mm	\	23.05	24.00	0.245	0.30	0.133	0.17	0.11
1	sensor off	LTE B41	40620	2593	50RB-Middle	QPSK	Right	0mm	\	23.05	24.00	<0.01	<0.01	<0.01	<0.01	\
1	sensor off	LTE B41	40620	2593	50RB-Middle	QPSK	Bottom	0mm	\	23.05	24.00	0.059	0.07	0.03	0.04	0.07
1	sensor off	LTE B41	40620	2593	50RB-Middle	QPSK	Top	17mm	\	23.05	24.00	0.069	0.09	0.03	0.04	-0.03
1	Body	LTE B41	40620	2593	1RB-Middle	QPSK	Front	0mm	\	10.77	11.50	0.232	0.27	0.086	0.10	-0.03
1	Body	LTE B41	40620	2593	1RB-Middle	QPSK	Rear	0mm	\	10.77	11.50	0.378	0.45	0.127	0.15	0.06
1	Body	LTE B41	40620	2593	1RB-Middle	QPSK	Left	0mm	\	10.77	11.50	0.294	0.35	0.092	0.11	0.09
1	Body	LTE B41	40620	2593	1RB-Middle	QPSK	Top	0mm	\	10.77	11.50	0.028	0.03	0.01	0.01	0.15
1	Body	LTE B41	40620	2593	50RB-Middle	QPSK	Front	0mm	\	10.65	11.50	0.241	0.29	0.086	0.10	0.14
1	Body	LTE B41	41490	2680	50RB-Middle	QPSK	Rear	0mm	\	10.63	11.50	0.447	0.55	0.136	0.17	0.09
1	Body	LTE B41	41055	2636.5	50RB-Middle	QPSK	Rear	0mm	\	10.55	11.50	0.587	0.73	0.202	0.25	-0.16
1	Body	LTE B41	40620	2593	50RB-Middle	QPSK	Rear	0mm	\	10.65	11.50	0.417	0.51	0.135	0.16	-0.14
1	Body	LTE B41	40185	2549.5	50RB-Middle	QPSK	Rear	0mm	\	10.38	11.50	0.404	0.52	0.131	0.17	-0.19
1	Body	LTE B41	39750	2506	50RB-Middle	QPSK	Rear	0mm	F.24	10.59	11.50	0.607	0.75	0.207	0.26	0.15
1	Body	LTE B41	40620	2593	50RB-Middle	QPSK	Left	0mm	\	10.65	11.50	0.278	0.34	0.091	0.11	0.15
1	Body	LTE B41	40620	2593	50RB-Middle	QPSK	Top	0mm	\	10.65	11.50	<0.01	<0.01	<0.01	<0.01	\
2	Head	LTE B66	132322	1745	1RB-Middle	QPSK	Cheek Left	0mm	\	11.83	12.50	0.115	0.13	0.056	0.07	-0.03
2	Head	LTE B66	132322	1745	1RB-Middle	QPSK	Tilt Left	0mm	\	11.83	12.50	0.121	0.14	0.057	0.07	0.17
2	Head	LTE B66	132322	1745	1RB-Middle	QPSK	Cheek Right	0mm	\	11.83	12.50	0.232	0.27	0.107	0.12	0.02
2	Head	LTE B66	132322	1745	1RB-Middle	QPSK	Tilt Right	0mm	\	11.83	12.50	0.251	0.29	0.107	0.12	0
2	Head	LTE B66	132322	1745	50RB-Middle	QPSK	Cheek Left	0mm	\	11.79	12.50	0.118	0.14	0.057	0.07	0.18
2	Head	LTE B66	132322	1745	50RB-Middle	QPSK	Tilt Left	0mm	\	11.79	12.50	0.125	0.15	0.058	0.07	-0.11
2	Head	LTE B66	132322	1745	50RB-Middle	QPSK	Cheek Right	0mm	\	11.79	12.50	0.236	0.28	0.101	0.12	-0.05
2	Head	LTE B66	132322	1745	50RB-Middle	QPSK	Tilt Right	0mm	F.25	11.79	12.50	0.26	0.31	0.115	0.14	0.18
2	sensor off	LTE B66	132322	1745	1RB-Middle	QPSK	Front	17mm	\	23.73	24.50	0.294	0.35	0.173	0.21	0
2	sensor off	LTE B66	132322	1745	1RB-Middle	QPSK	Rear	20mm	\	23.73	24.50	0.26	0.31	0.158	0.19	-0.14
2	sensor off	LTE B66	132322	1745	1RB-Middle	QPSK	Left	17mm	\	23.73	24.50	0.109	0.13	0.069	0.08	0.01
2	sensor off	LTE B66	132322	1745	1RB-Middle	QPSK	Right	0mm	\	23.73	24.50	0.063	0.08	0.036	0.04	0.18
2	sensor off	LTE B66	132322	1745	1RB-Middle	QPSK	Bottom	0mm	\	23.73	24.50	<0.01	<0.01	<0.01	<0.01	\
2	sensor off	LTE B66	132322	1745	1RB-Middle	QPSK	Top	24mm	\	23.73	24.50	0.245	0.29	0.147	0.18	0.14
2	sensor off	LTE B66	132072	1720	50RB-Middle	QPSK	Front	17mm	\	22.77	23.50	0.301	0.36	0.181	0.21	-0.04
2	sensor off	LTE B66	132322	1745	50RB-Middle	QPSK	Front	17mm	\	22.79	23.50	0.296	0.35	0.177	0.21	0.02
2	sensor off	LTE B66	132572	1770	50RB-Middle	QPSK	Front	17mm	\	22.62	23.50	0.273	0.33	0.158	0.19	0.16
2	sensor off	LTE B66	132322	1745	50RB-Middle	QPSK	Rear	20mm	\	22.79	23.50	0.215	0.25	0.13	0.15	0.06
2	sensor off	LTE B66	132322	1745	50RB-Middle	QPSK	Left	17mm	\	22.79	23.50	0.087	0.10	0.056	0.07	-0.02
2	sensor off	LTE B66	132322	1745	50RB-Middle	QPSK	Right	0mm	\	22.79	23.50	0.047	0.06	0.025	0.03	0.07
2	sensor off	LTE B66	132322	1745	50RB-Middle	QPSK	Bottom	0mm	\	22.79	23.50	0.094	0.11	0.034	0.04	-0.17
2	sensor off	LTE B66	132322	1745	50RB-Middle	QPSK	Top	24mm	\	22.79	23.50	0.266	0.31	0.162	0.19	0.1
2	Body	LTE B66	132322	1745	1RB-Middle	QPSK	Front	0mm	\	11.83	12.50	0.271	0.32	0.107	0.12	0.08
2	Body	LTE B66	132322	1745	1RB-Middle	QPSK	Rear	0mm	\	11.83	12.50	0.335	0.39	0.138	0.16	0
2	Body	LTE B66	132322	1745	1RB-Middle	QPSK	left	0mm	\	11.83	12.50	0.099	0.12	0.041	0.05	-0.13
2	Body	LTE B66	132322	1745	1RB-Middle	QPSK	Top	0mm	\	11.83	12.50	0.207	0.24	0.083	0.10	-0.1
2	Body	LTE B66	132322	1745	50RB-Middle	QPSK	Front	0mm	\	11.79	12.50	0.282	0.33	0.106	0.12	-0.07
2	Body	LTE B66	132322	1745	50RB-Middle	QPSK	Rear	0mm	F.26	11.79	12.50	0.394	0.46	0.146	0.17	0.17
2	Body	LTE B66	132322	1745	50RB-Middle	QPSK	left	0mm	\	11.79	12.50	0.108	0.13	0.045	0.05	0.01
2	Body	LTE B66	132322	1745	50RB-Middle	QPSK	Top	0mm	\	11.79	12.50	0.242	0.28	0.084	0.10	0.1

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11.2 SAR results for WLAN

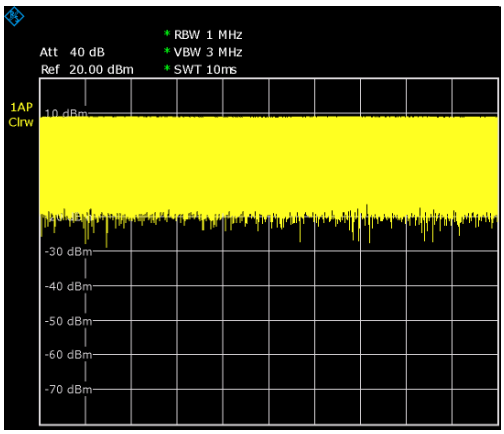
The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

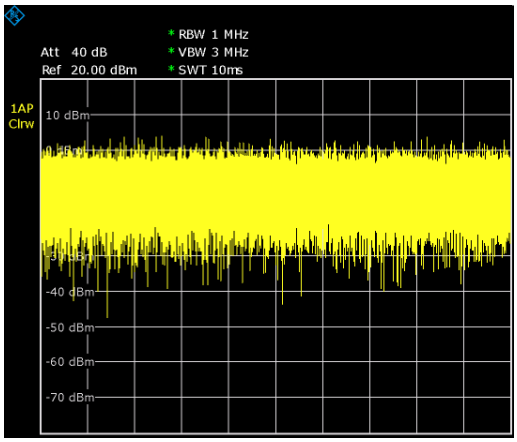
SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Duty factor plot

WIFI2.4G



WIFI5G



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WLAN 2.4G

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	RB/TX slot	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift	Duty cycle
3	Head	WLAN 2.4G	6	2437	1M	802.11b	Cheek Left	0mm	\	9.42	10.00	0.09	0.10	0.041	0.05	0.11	100%
3	Head	WLAN 2.4G	11	2462	1M	802.11b	Tilt Left	0mm	\	9.32	10.00	0.103	0.12	0.047	0.05	-0.07	100%
3	Head	WLAN 2.4G	6	2437	1M	802.11b	Tilt Left	0mm	\	9.42	10.00	0.078	0.09	0.034	0.04	0.18	100%
3	Head	WLAN 2.4G	1	2412	1M	802.11b	Tilt Left	0mm	F.27	9.37	10.00	0.108	0.12	0.05	0.06	-0.09	100%
3	Head	WLAN 2.4G	6	2437	1M	802.11b	Cheek Right	0mm	\	9.42	10.00	0.067	0.08	0.033	0.04	0.12	100%
3	Head	WLAN 2.4G	6	2437	1M	802.11b	Tilt Right	0mm	\	9.42	10.00	0.06	0.07	0.029	0.03	0.07	100%
3	sensor off	WLAN 2.4G	11	2462	1M	802.11b	Front	8mm	\	16.98	18.00	0.246	0.31	0.132	0.17	0.15	100%
3	sensor off	WLAN 2.4G	6	2437	1M	802.11b	Front	8mm	\	17.21	18.00	0.267	0.32	0.14	0.17	0.14	100%
3	sensor off	WLAN 2.4G	1	2412	1M	802.11b	Front	8mm	\	16.90	18.00	0.324	0.42	0.17	0.22	0.15	100%
3	sensor off	WLAN 2.4G	6	2437	1M	802.11b	Rear	12mm	\	17.21	18.00	0.24	0.29	0.127	0.15	-0.03	100%
3	sensor off	WLAN 2.4G	6	2437	1M	802.11b	Left	0mm	\	17.21	18.00	0.095	0.11	0.037	0.04	-0.14	100%
3	sensor off	WLAN 2.4G	6	2437	1M	802.11b	Right	0mm	\	17.21	18.00	0.131	0.16	0.057	0.07	0.17	100%
3	sensor off	WLAN 2.4G	6	2437	1M	802.11b	Bottom	0mm	\	17.21	18.00	<0.01	<0.01	<0.01	<0.01	\	100%
3	sensor off	WLAN 2.4G	6	2437	1M	802.11b	Top	17mm	\	17.21	18.00	0.118	0.14	0.066	0.08	0.11	100%
3	Body	WLAN 2.4G	6	2437	1M	802.11b	Front	0mm	\	9.42	10.00	0.198	0.23	0.081	0.09	0.07	100%
3	Body	WLAN 2.4G	1	2412	1M	802.11b	Rear	0mm	\	9.32	10.00	0.358	0.42	0.14	0.16	-0.04	100%
3	Body	WLAN 2.4G	6	2437	1M	802.11b	Rear	0mm	\	9.42	10.00	0.323	0.37	0.135	0.15	-0.18	100%
3	Body	WLAN 2.4G	11	2462	1M	802.11b	Rear	0mm	F.28	9.37	10.00	0.426	0.49	0.175	0.20	-0.12	100%
3	Body	WLAN 2.4G	6	2437	1M	802.11b	Top	0mm	\	9.42	10.00	0.194	0.22	0.074	0.08	-0.13	100%

WLAN 5G

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	RB/TX slot	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift	Duty cycle
3	Head	WLAN 5G	42	5210	MCS0	802.11ac-80M	Cheek Left	0mm	\	4.90	6.00	0.06	0.08	0.013	0.02	-0.13	100%
3	Head	WLAN 5G	42	5210	MCS0	802.11ac-80M	Tilt Left	0mm	\	4.90	6.00	0.069	0.09	0.013	0.02	0	100%
3	Head	WLAN 5G	42	5210	MCS0	802.11ac-80M	Cheek Right	0mm	\	4.90	6.00	0.059	0.08	0.013	0.02	-0.04	100%
3	Head	WLAN 5G	42	5210	MCS0	802.11ac-80M	Tilt Right	0mm	\	4.90	6.00	0.081	0.10	0.017	0.02	-0.15	100%
3	Head	WLAN 5G	58	5290	MCS0	802.11ac-80M	Cheek Left	0mm	\	5.20	6.00	0.073	0.09	0.015	0.02	-0.09	100%
3	Head	WLAN 5G	58	5290	MCS0	802.11ac-80M	Tilt Left	0mm	\	5.20	6.00	0.08	0.10	0.017	0.02	0.05	100%
3	Head	WLAN 5G	58	5290	MCS0	802.11ac-80M	Cheek Right	0mm	\	5.20	6.00	0.075	0.09	0.015	0.02	0.13	100%
3	Head	WLAN 5G	58	5290	MCS0	802.11ac-80M	Tilt Right	0mm	\	5.20	6.00	0.078	0.09	0.015	0.02	0	100%
3	Head	WLAN 5G	122	5610	MCS0	802.11ac-80M	Cheek Left	0mm	\	5.50	6.00	0.137	0.15	0.026	0.03	-0.12	100%
3	Head	WLAN 5G	122	5610	MCS0	802.11ac-80M	Tilt Left	0mm	F.29	5.50	6.00	0.158	0.18	0.035	0.04	0.19	100%
3	Head	WLAN 5G	122	5610	MCS0	802.11ac-80M	Cheek Right	0mm	\	5.50	6.00	0.097	0.11	0.022	0.02	0.15	100%
3	Head	WLAN 5G	122	5610	MCS0	802.11ac-80M	Tilt Right	0mm	\	5.50	6.00	0.145	0.16	0.033	0.04	-0.05	100%
3	Head	WLAN 5G	155	5775	MCS0	802.11ac-80M	Cheek Left	0mm	\	5.00	6.00	0.11	0.14	0.019	0.02	-0.07	100%
3	Head	WLAN 5G	155	5775	MCS0	802.11ac-80M	Tilt Left	0mm	\	5.00	6.00	0.139	0.17	0.026	0.03	0.1	100%
3	Head	WLAN 5G	155	5775	MCS0	802.11ac-80M	Cheek Right	0mm	\	5.00	6.00	0.114	0.14	0.024	0.03	-0.11	100%
3	Head	WLAN 5G	155	5775	MCS0	802.11ac-80M	Tilt Right	0mm	\	5.00	6.00	0.124	0.16	0.026	0.03	-0.02	100%
3	sensor off	WLAN 5G	48	5240	MCS0	202.11a	Front	8mm	\	15.61	16.50	0.397	0.49	0.133	0.16	-0.1	100%
3	sensor off	WLAN 5G	48	5240	MCS0	202.11a	Rear	12mm	\	15.61	16.50	0.315	0.39	0.103	0.13	0.14	100%
3	sensor off	WLAN 5G	48	5240	MCS0	202.11a	Left	0mm	\	15.61	16.50	0.052	0.06	0.014	0.02	0.04	100%
3	sensor off	WLAN 5G	48	5240	MCS0	202.11a	Right	0mm	\	15.61	16.50	0.058	0.07	0.019	0.02	-0.05	100%
3	sensor off	WLAN 5G	48	5240	MCS0	202.11a	Bottom	0mm	\	15.61	16.50	<0.01	<0.01	<0.01	<0.01	\	100%
3	sensor off	WLAN 5G	48	5240	MCS0	202.11a	Top	17mm	\	15.61	16.50	0.398	0.49	0.142	0.17	-0.04	100%
3	sensor off	WLAN 5G	52	5260	MCS0	202.11a	Front	8mm	\	15.65	16.50	0.438	0.53	0.141	0.17	0.14	100%
3	sensor off	WLAN 5G	52	5260	MCS0	202.11a	Rear	12mm	\	15.65	16.50	0.364	0.44	0.119	0.14	0.03	100%
3	sensor off	WLAN 5G	52	5260	MCS0	202.11a	Left	0mm	\	15.65	16.50	0.053	0.06	0.019	0.02	0.16	100%
3	sensor off	WLAN 5G	52	5260	MCS0	202.11a	Right	0mm	\	15.65	16.50	0.086	0.10	0.025	0.03	0.01	100%
3	sensor off	WLAN 5G	52	5260	MCS0	202.11a	Bottom	0mm	\	15.65	16.50	<0.01	<0.01	<0.01	<0.01	\	100%
3	sensor off	WLAN 5G	52	5260	MCS0	202.11a	Top	17mm	\	15.65	16.50	0.385	0.47	0.141	0.17	-0.06	100%
3	sensor off	WLAN 5G	126	5630	MCS0	202.11n-40M	Front	8mm	\	12.93	13.50	0.326	0.37	0.107	0.12	0.14	100%
3	sensor off	WLAN 5G	126	5630	MCS0	202.11n-40M	Rear	12mm	\	12.93	13.50	0.207	0.24	0.066	0.08	-0.09	100%
3	sensor off	WLAN 5G	126	5630	MCS0	202.11n-40M	Left	0mm	\	12.93	13.50	0.073	0.08	0.024	0.03	-0.09	100%
3	sensor off	WLAN 5G	126	5630	MCS0	202.11n-40M	Right	0mm	\	12.93	13.50	0.07	0.08	0.023	0.03	-0.12	100%
3	sensor off	WLAN 5G	126	5630	MCS0	202.11n-40M	Bottom	0mm	\	12.93	13.50	0.053	0.06	0.011	0.01	-0.06	100%
3	sensor off	WLAN 5G	126	5630	MCS0	202.11n-40M	Top	17mm	\	12.93	13.50	0.336	0.38	0.117	0.13	-0.19	100%
3	sensor off	WLAN 5G	161	5805	MCS0	202.11a	Front	8mm	F.30	16.75	17.50	0.723	0.86	0.23	0.27	0.13	100%
3	sensor off	WLAN 5G	161	5805	MCS0	202.11a	Rear	12mm	\	16.75	17.50	0.404	0.48	0.128	0.15	0.09	100%
3	sensor off	WLAN 5G	161	5805	MCS0	202.11a	Left	0mm	\	16.75	17.50	0.124	0.15	0.04	0.05	0.13	100%
3	sensor off	WLAN 5G	161	5805	MCS0	202.11a	Right	0mm	\	16.75	17.50	0.106	0.13	0.039	0.05	-0.08	100%
3	sensor off	WLAN 5G	161	5805	MCS0	202.11a	Bottom	0mm	\	16.75	17.50	<0.01	<0.01	<0.01	<0.01	\	100%
3	sensor off	WLAN 5G	161	5805	MCS0	202.11a	Top	17mm	\	16.75	17.50	0.511	0.61	0.187	0.22	0.08	100%
3	sensor off	WLAN 5G	161	5805	MCS0	202.11a	Front	16mm	\	16.75	17.50	0.181	0.22	0.0596	0.07	0.11	100%
3	Body	WLAN 5G	42	5210	MCS0	802.11ac-80M	Front	0mm	\	4.90	6.00	0.098	0.13	0.022	0.03	-0.04	100%
3	Body	WLAN 5G	42	5210	MCS0	802.11ac-80M	Rear	0mm	\	4.90	6.00	0.096	0.12	0.023	0.03	0.12	100%
3	Body	WLAN 5G	42	5210	MCS0	802.11ac-80M	Top	0mm	\	4.90	6.00	0.451	0.58	0.071	0.09	0.13	100%
3	Body	WLAN 5G	58	5290	MCS0	802.11ac-80M	Front	0mm	\	5.20	6.00	0.119	0.14	0.028	0.03	0.09	100%
3	Body	WLAN 5G	58	5290	MCS0	802.11ac-80M	Rear	0mm	\	5.20	6.00	0.129	0.16	0.032	0.04	-0.02	100%
3	Body	WLAN 5G	58	5290	MCS0	802.11ac-80M	Top	0mm	\	5.20	6.00	0.27	0.32	0.051	0.06	-0.16	100%
3	Body	WLAN 5G	122	5610	MCS0	802.11ac-80M	Front	0mm	\	5.50	6.00	0.203	0.23	0.042	0.05	-0.03	100%
3	Body	WLAN 5G	122	5610	MCS0	802.11ac-80M	Rear	0mm	\	5.50	6.00	0.304	0.34	0.051	0.06	-0.06	100%
3	Body	WLAN 5G	122	5610	MCS0	802.11ac-80M	Top	0mm	\	5.50	6.00	0.212	0.24	0.053	0.06	0.08	100%
3	Body	WLAN 5G	155	5775	MCS0	802.11ac-80M	Front	0mm	\	5.00	6.00	0.128	0.16	0.034	0.04	-0.07	100%
3	Body	WLAN 5G	155	5775	MCS0	802.11ac-80M	Rear	0mm	\	5.00	6.00	0.132	0.17	0.032	0.04	0.11	100%
3	Body	WLAN 5G	155	5775	MCS0	802.11ac-80M	Top	0mm	\	5.00	6.00	0.153	0.19	0.032	0.04	-0.13	100%

11.3 SAR results for BT

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	RB/TX slot	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift
3	head	BT	39	2441	DH5	GFSK	Cheek Left	0mm	\	6.52	7.00	0.058	0.06	0.026	0.03	0.04
3	head	BT	39	2441	DH5	GFSK	Tilt Left	0mm	F.31	6.52	7.00	0.069	0.08	0.032	0.04	0.17
3	head	BT	39	2441	DH5	GFSK	Cheek Right	0mm	\	6.52	7.00	0.043	0.05	0.021	0.02	0.17
3	head	BT	39	2441	DH5	GFSK	Tilt Right	0mm	\	6.52	7.00	0.038	0.04	0.018	0.02	-0.1
3	Body	BT	39	2441	DH5	GFSK	Front	0mm	\	6.52	7.00	0.084	0.09	0.033	0.04	0.17
3	Body	BT	39	2441	DH5	GFSK	Rear	0mm	F.32	6.52	7.00	0.18	0.20	0.07	0.08	0.18
3	Body	BT	39	2441	DH5	GFSK	Left	0mm	\	6.52	7.00	0.059	0.07	0.021	0.02	-0.15
3	Body	BT	39	2441	DH5	GFSK	Right	0mm	\	6.52	7.00	0.081	0.09	0.033	0.04	0.18
3	Body	BT	39	2441	DH5	GFSK	Top	0mm	\	6.52	7.00	0.082	0.09	0.03	0.03	0.05
3	Body	BT	39	2441	DH5	GFSK	Bottom	0mm	\	6.52	7.00	<0.01	<0.01	<0.01	<0.01	\

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11.4 SAR results for Phablet

According to the KDB648474 D04, for smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. 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 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity 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. Extremity 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 10-g extremity SAR.
3. 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

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12 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20

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13 Simultaneous TX SAR Considerations

13.1 Transmit Antenna Separation Distances

The detail for transmit antenna separation distances is described in the additional document:
Appendix to test report No.25T04Z200151-014
The photos of SAR test

13.2 Simultaneous Transmission

13.2.1 Introduction

The following procedures adopted from "FCC SAR Considerations for Cell Phones with Multiple Transmitters" are applicable to handsets with built-in unlicensed transmitters such as WLAN and Bluetooth devices which may simultaneously transmit with the licensed transmitter. KDB 447498 D01 provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

13.2.2 Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based upon Sum of SAR the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met.

13.2.3 SAR to Peak Location Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$SPLSR = (SAR1 + SAR2)^{1.5} / Ri$

Where:

SAR1 is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition.

SAR2 is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first .

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$(SAR1 + SAR2)^{1.5} / Ri \leqslant 0.04$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest reported SAR for the frequency bands should be used to determine SAR1 or SAR2. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

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13.2.4 Simultaneous Transmission Capabilities

The simultaneous transmission possibilities for this device are listed as below:

Capable Transmit Conf igurations	Head	Body	Product Specific 10-g (0mm)
WWAN + BT	Yes	Yes	Yes
WWAN + Wi-Fi 2.4G	Yes	Yes	Yes
WWAN + Wi-Fi 5G	Yes	Yes	Yes
WWAN + Wi-Fi 5G+BT	Yes	Yes	Yes

Note:

1. The reported SAR summation is calculated based on the same configuration and test position.
2. For the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR, we determined the SAR of this edges were less than 0.01. For the convenience of simultaneous transmission calculation, all SAR values less than 0.01 are uniformly written as 0.00

13.3.5 Evaluation of Simultaneous

			Reported SAR 1g (W/kg)																	
Head		GSM850 Ant2	GSM1900 Ant2	W1900 Ant2	W1700 Ant2	W850 Ant2	LTE B2 Ant2	LTE B5 Ant2	LTE B7 Ant1	LTE B12 Ant2	LTE B26 Ant2	LTE B28 Ant2	LTE B41 Ant1	LTE B66 Ant2	WiFi 2.4G Ant3	WiFi 5G Ant3	BT ANT3	WWAN+WLAN2.4G	WWAN+WLAN5G+BT
Cheek	L	0.21	0.23	0.31	0.21	0.24	0.32	0.25	0.04	0.17	0.26	0.19	0.00	0.14	0.10	0.15	0.06	0.42	0.53
Tilt	L	0.17	0.19	0.33	0.24	0.21	0.36	0.21	0.00	0.15	0.22	0.17	0.00	0.15	0.12	0.18	0.08	0.48	0.62
Cheek	R	0.30	0.30	0.39	0.31	0.33	0.39	0.33	0.08	0.20	0.36	0.23	0.04	0.28	0.08	0.14	0.05	0.47	0.58
Tilt	R	0.21	0.38	0.45	0.33	0.27	0.45	0.26	0.08	0.17	0.28	0.20	0.02	0.31	0.07	0.16	0.04	0.52	0.65
Sensor off		GSM850 Ant2	GSM1900 Ant2	W1900 Ant2	W1700 Ant2	W850 Ant2	LTE B2 Ant2	LTE B5 Ant2	LTE B7 Ant1	LTE B12 Ant2	LTE B26 Ant2	LTE B28 Ant2	LTE B41 Ant1	LTE B66 Ant2	WiFi 2.4G Ant3	WiFi 5G Ant3	BT ANT3	WWAN+WLAN2.4G	WWAN+WLAN5G+BT
Front	17mm	0.38	0.31	0.60	0.48	0.35	0.53	0.36		0.17	0.48	0.24		0.36	0.42	0.22	0.09	1.02	0.91
Front	16mm								0.79				0.37		0.42	0.22	0.09	1.21	1.10
Front	8mm														0.42	0.86	0.09	0.42	0.95
Rear	20mm	0.48	0.20	0.40	0.36	0.42	0.35	0.53		0.23	0.52	0.43		0.31	0.29	0.48	0.20	0.82	1.21
Rear	18mm								0.73				0.32		0.29	0.48	0.20	1.02	1.41
Rear	12mm														0.29	0.48	0.20	0.29	0.68
Left	17mm	0.10	0.06	0.11	0.14	0.07	0.12	0.09	0.91	0.00	0.09	0.08	0.52	0.13	0.11	0.15	0.07	1.02	1.13
Top	24mm	0.23	0.29	0.72	0.38	0.26	0.62	0.28		0.14	0.39	0.24		0.31	0.14	0.61	0.09	0.86	1.42
Top	17mm								0.22				0.10		0.14	0.61	0.09	0.36	0.92
Sensor on		GSM850 Ant2	GSM1900 Ant2	W1900 Ant2	W1700 Ant2	W850 Ant2	LTE B2 Ant2	LTE B5 Ant2	LTE B7 Ant1	LTE B12 Ant2	LTE B26 Ant2	LTE B28 Ant2	LTE B41 Ant1	LTE B66 Ant2	WiFi 2.4G Ant3	WiFi 5G Ant3	BT ANT3	WWAN+WLAN2.4G	WWAN+WLAN5G+BT
Front	0mm	0.47	0.33	0.46	0.31	0.35	0.49	0.46	0.48	0.32	0.39	0.31	0.29	0.46	0.23	0.23	0.09	0.72	0.81
Rear	0mm	0.78	0.41	0.50	0.52	0.66	0.64	0.89	0.85	0.60	0.76	0.58	0.75	0.39	0.49	0.34	0.20	1.38	1.43
Left	0mm	0.26	0.07	0.08	0.07	0.16	0.10	0.17	0.79	0.05	0.17	0.10	0.35	0.13	0.11	0.15	0.07	0.90	1.01
Right	0mm	0.31	0.07	0.13	0.11	0.32	0.12	0.29	0.06	0.17	0.40	0.32	0.00	0.08	0.16	0.13	0.09	0.56	0.62
Bottom	0mm	0.13	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.07	0.00	0.15	0.11	0.00	0.00	0.00	0.15	0.15
Top	0mm	0.30	0.28	0.33	0.34	0.26	0.39	0.38	0.07	0.27	0.31	0.25	0.03	0.28	0.22	0.58	0.09	0.61	1.06

Conclusion:

According to the above tables, the sum of reported SAR values is<1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

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14 Measurement Uncertainty

14.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	N	1	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521

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Combined standard uncertainty	$u_c' = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					9.55	9.43	257
Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$					19.1	18.9	

14.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞

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21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c' = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						10.7	10.6	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						21.4	21.1	

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15 MAIN TEST INSTRUMENTS

Table 15.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	December 18, 2024	One year
02	Power sensor	NRP50S	101488	May 30, 2025	One year
03	Power sensor	NRP50S	101489		
04	Signal Generator	E4438C	MY49071430	December 19 2024	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	159890	January 21, 2025	One year
07	DAE	DAE4	1588	September 13,2024	One year
08	E-field Probe	EX3DV4	3846	May 28,2025	One year
09	Dipole Validation Kit	D750V3	1017	July 9,2024	One year
10	Dipole Validation Kit	D900V2	1d051	July 9,2024	Three year
11	Dipole Validation Kit	D1750V2	1003	July 11,2024	One year
12	Dipole Validation Kit	D1900V2	5d101	July 8,2024	One year
13	Dipole Validation Kit	D2450V2	853	July 10,2024	One year
14	Dipole Validation Kit	D2600V2	1012	July 10,2024	One year
15	Dipole Validation Kit	D5GHzV2	1262	January 17,2025	One year

END OF REPORT BODY

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Appendixes

Refer to separated files for the following appendixes

ANNEX A Graph Results

***ANNEX B* System Verification Results**

ANNEX C SAR Measurement Setup

ANNEX D Position of the wireless device in relation to the phantom

ANNEX E Equivalent Media Recipes

ANNEX F System Validation

ANNEX G Probe Calibration Certificate

ANNEX H Dipole Calibration Certificate

ANNEX I SAR Sensor Triggering Data Summary

ANNEX J Accreditation Certificate

ANNEX K Accreditation Certificate

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