SAR TEST REPORT

No. 24T04Z200172-013

For

Samsung Electronics Co., Ltd.

Multi-band GSM/WCDMA/LTE/5GNR Mobile Phone with Bluetooth, WLAN

Model Name: SM-A166P/DS

with

Hardware Version: REV 1.0

Software Version: A166P.001

FCC ID: ZCASMA166P

Issued Date: 2024-9-11

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.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
24T04Z200172-013	Rev.0	2024-9-11	Initial creation of test report

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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 (CN5017), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2 Testing Location

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

1.3 Testing Environment

Temperature:	18°C~25°C,
Relative humidity:	30%~ 70%
Ground system resistance:	< 0.5 Ω
Ambient noise & Reflection:	< 0.012 W/kg

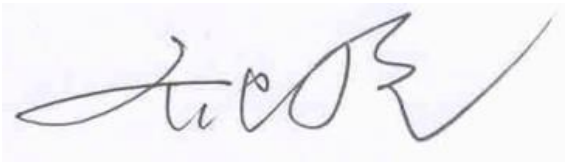
1.4 Project Data

Project Leader:	Qi Dianyuan
Test Engineer:	Yao Juming
Testing Start Date:	August 20, 2024
Testing End Date:	September 3, 2024

1.5 Signature

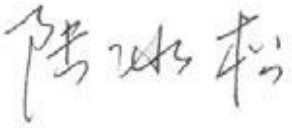
Yao Juming

(Prepared this test report)



Qi Dianyuan

(Reviewed this test report)



Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

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/5GNR Mobile Phone with Bluetooth, WLAN, SM-A166P/DS is as follows:

Table 2.1: Highest Reported SAR (1g)

Technology Band	Antenna	Head (Separation Distance 0mm)	Body-Worn (Separation Distance 15mm)	Hotspot (Separation Distance 10mm)	Phablet SAR(10g) (Separation Distance 0mm)	Equipment Class
GSM850	ANT0	0.40	0.66	0.66	/	PCE
PCS 1900	ANT1	0.25	0.56	0.56	/	
UMTS FDD 2	ANT1	0.56	**0.99**	**0.99**	/	
UMTS FDD 4	ANT1	0.35	0.54	0.68	/	
UMTS FDD 5	ANT0	0.39	0.39	0.39	/	
LTE B2	ANT1	0.57	0.69	0.69	/	
LTE B2	ANT4	0.50	0.63	0.64	/	
LTE B5	ANT0	0.33	0.32	0.33	/	
LTE B7	ANT4	**0.79**	0.73	0.79	/	
LTE B7	ANT0	0.13	0.61	0.79	/	
LTE B12(B17)	ANT0	0.23	0.31	0.31	/	
LTE B26	ANT0	0.34	0.71	0.71	/	
LTE B41(B38)	ANT4	0.78	0.30	0.42	/	
LTE B41(B38)	ANT0	0.17	0.60	0.79	/	
LTE B66(B4)	ANT1	0.48	0.56	0.56	/	
LTE B66(B4)	ANT4	0.37	0.28	0.48	/	
5G NR n5	ANT0	0.30	0.24	0.24	/	
5G NR n7	ANT4	0.56	0.48	0.65	/	
5G NR n7	ANT0	0.16	0.66	0.78	/	
5G NR n26	ANT0	0.31	0.54	0.54	/	
5G NR n41	ANT4	0.49	0.54	0.74	/	
5G NR n66	ANT1	0.32	0.58	0.58	/	
5G NR n66	ANT4	0.48	0.32	0.33	/	
5G NR n77(n78)	ANT5	0.66	0.91	0.91	/	
WLAN 2.4G	ANT6	0.32	0.11	0.21	/	DTS
WLAN 5G	ANT6	0.20	0.48	0.48	/	NII
BT	ANT6	0.28	0.05	0.08	/	DSS

Note1: This DUT has NFC operations. The NFC antenna is integrated into the device for this model. According to KDB 447498 D01 v06 and KDB 648474 D04 v01r03 chapter 8, all SAR tests were performed and evaluated with the device which already incorporates the NFC antenna.

Note2：

This device supports both LTE B4/B17/B38, NR n78 and LTE B66/B12/B41, NR n77. Since the supported frequency span for LTE B4/B17/B38, NR n78 falls completely within the supports frequency span for LTE

B66/B12/B41, NR n77, both bands have the same target power, and both bands share the same transmission path; therefore, SAR was only assessed for LTE B66/B12/B41, NR n77.

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 10 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: 0.79 W/kg (1g)
Hotspot: 0.99 W/kg (1g)
Body-worn: 0.99 W/kg (1g)

Table 2.2: The sum of SAR values for Main antenna + WIFI2.4G

	Position	Main antenna	WIFI2.4G	Sum
Highest SAR value for Head	Left head, Cheek (2A-n77A)	0.92	0.28	**1.20**
Highest SAR value for Body	Front 18mm (7A-n77A)	1.33	0.11	**1.44**

Note: VoLTE or pre-installed VOIP applications are considered.

Table 2.3: The sum of SAR values for Main antenna+WIFI5G+BT

	Position	Main antenna	WIFI5G	BT	Sum
Highest SAR value for Head	Left head, Cheek (2A-n77A)	0.92	0.16	0.25	**1.33**
Highest SAR value for Body	Front 18mm (7A-n77A)	1.33	0.19	0.05	**1.57**

Note: VoLTE or pre-installed VOIP applications are considered.

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.

According to the above tables, the highest sum of reported SAR values is **1.57 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

3 Client Information

3.1 Applicant Information

Company Name:	Samsung Electronics Co., Ltd.
Address/Post:	19 Chapin Rd.,Building D Pine Brook, NJ 07058
Contact Person:	Jenni Chun
Contact Email:	j1.chun@samsung.com
Telephone:	+1-201-937-4203
Fax:	/

3.2 Manufacturer Information

Company Name:	Samsung Electronics Co., Ltd.
Address/Post:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
Contact Person:	Kobe Cho
Contact Email:	ggobi.cho@samsung.com
Telephone:	+82 - 10 - 2722 - 4159
Fax:	/

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

4.1 About EUT

Description:	Multi-band GSM/WCDMA/LTE/5GNR Mobile Phone with Bluetooth, WLAN
Model name:	SM-A166P/DS
Operating mode(s):	GSM 850/900/1800/1900 WCDMA B1/B2/B4/B5/B8 LTE Band 1/2/3/4/5/7/8/12/17/20/26/28/38/41/66 5G NR n1/n3/n5/n7/n8/n26/n28/n41/n66/n77/n78 BT, Wi-Fi2.4G/5G
Tested Tx Frequency:	824 – 849 MHz (GSM 850)
	1850 – 1910 MHz (GSM 1900)
	824 – 849 MHz (WCDMA 850 Band V)
	1850 – 1910 MHz (WCDMA1900 Band II)
	1710-1755 MHz (WCDMA1700 Band IV)
	1850 – 1910 MHz(LTE Band 2)
	824 – 849 MHz (LTE Band 5)
	2500 – 2570 MHz (LTE Band 7)
	699 – 716 MHz (LTE Band 12)
	814 – 849 MHz (LTE Band 26)
	2496 – 2690 MHz (LTE Band41)
	1710 –1780 MHz (LTE Band 66)
	824 – 849 MHz (n5)
	2500 – 2570 MHz (n7)
	814 – 849 MHz (n26)
	2496 – 2690 MHz (n41)
	1710– 1780 MHz (n66)
	3450 – 3550 MHz (n77L)
	3700 – 4200 MHz (n77H)
	2412 – 2462 MHz (Wi-Fi 2.4G)
	2400 – 2483.5 MHz (Bluetooth)
	5180 – 5240 MHz (Wi-Fi 5.2G)
	5260 – 5320 MHz (Wi-Fi 5.3G)
	5500 – 5720 MHz (Wi-Fi 5.5G)
	5745 – 5825 MHz (Wi-Fi 5.8G)
GPRS/EGPRS Multislot Class:	12
Test device production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna
Hotspot mode:	Support

4.2 Internal Identification of EUT used during the test

EUT ID*	SN/IMEI	HW Version	SW Version
EUT1	24T04Z200172UT22a	REV 1.0	A166P.001
EUT2	24T04Z200172UT23a	REV 1.0	A166P.001
EUT3	24T04Z200172UT24a	REV 1.0	A166P.001
EUT4	24T04Z200172UT25a	REV 1.0	A166P.001
EUT5	24T04Z200172UT26a	REV 1.0	A166P.001
EUT6	24T04Z200172UT34a	REV 1.0	A166P.001
EUT7	24T04Z200172UT35a	REV 1.0	A166P.001
EUT8	24T04Z200172UT05a	REV 1.0	A166P.001
EUT9	24T04Z200172UT08a	REV 1.0	A166P.001
EUT10	24T04Z200172UT09a	REV 1.0	A166P.001
EUT11	24T04Z200172UT10a	REV 1.0	A166P.001
EUT12	24T04Z200172UT12a	REV 1.0	A166P.001

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

Note: It is performed to test SAR with the EUT1~7 and conducted power with the EUT8~12.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	W3-S-S	/	SCUD (FUJIAN) Electronics Co., Ltd.

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

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.

5.2 Applicable Measurement Standards

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

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

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.

7 Tissue Simulating Liquids

7.1 Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid

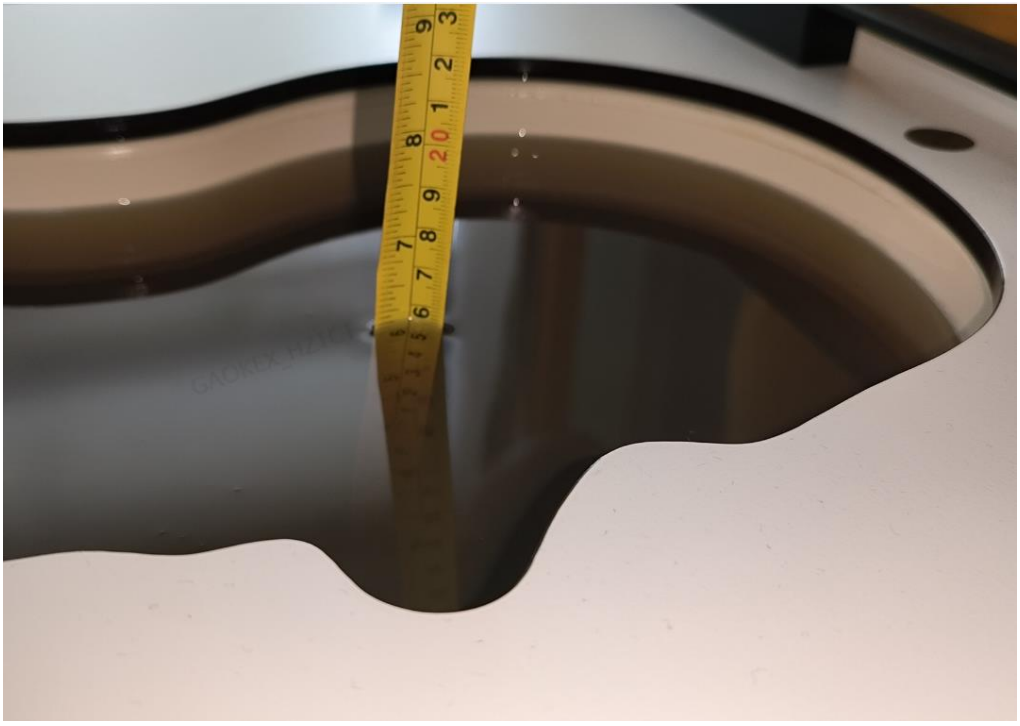
Frequency(MHz)	Liquid Type	Conductivity(σ)	± 5%Range	Permittivity(ε)	± 5%Range
750	Head	0.89	0.85～0.93	41.94	39.8～44.0
900	Head	0.97	0.92～1.02	41.50	39.40～43.60
1800	Head	1.40	1.33～1.47	40.00	38.00～42.00
1900	Head	1.40	1.33～1.47	40.00	38.00～42.00
2450	Head	1.80	1.71～1.89	39.20	37.30～41.10
2600	Head	1.96	1.86～2.06	39.01	37.06～40.96
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
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

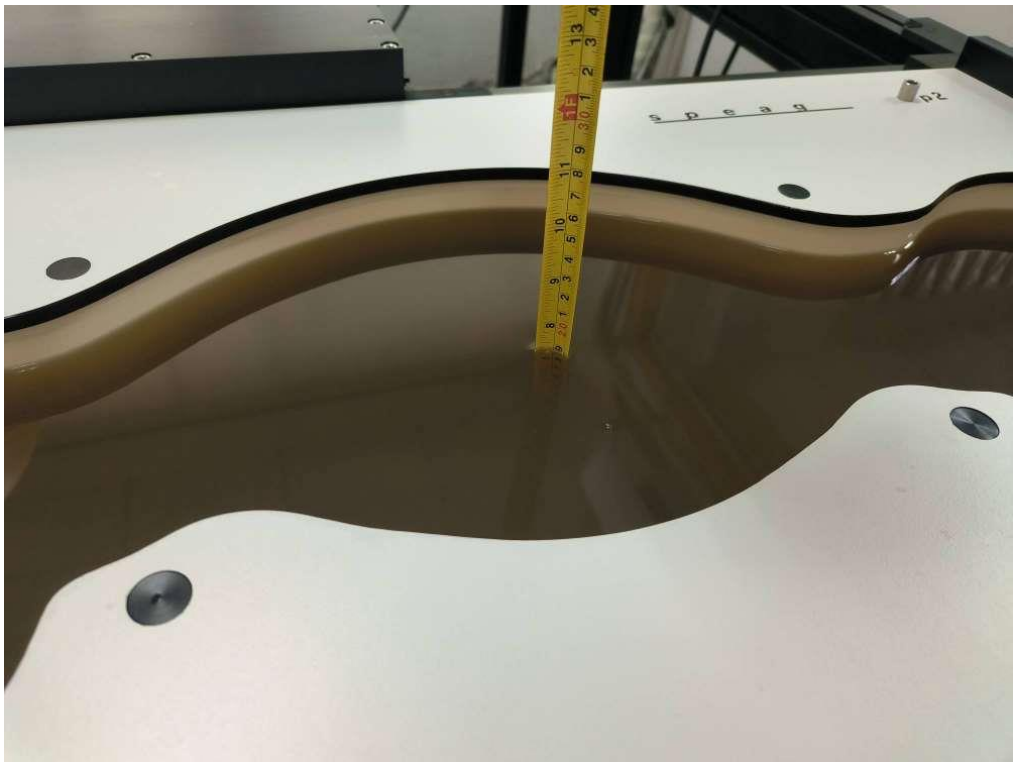
Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date yyyy/mm/dd	Frequency	Type	Permittivity ε	Drift	Conductivity σ (S/m)	Drift
2024-8-26	750MHz	Head	41.42	-1.24%	0.861	-3.26%
2024-8-20	835MHz	Head	41.21	-0.70%	0.925	2.78%
2024-8-22	1800MHz	Head	40.06	0.15%	1.439	2.79%
2024-8-23	1800MHz	Head	40.483	1.21%	1.412	0.86%
2024-8-24	1900MHz	Head	38.79	-3.03%	1.365	-2.50%
2024-8-25	1900MHz	Head	38.81	-2.97%	1.363	-2.64%
2024-8-29	2450MHz	Head	39.54	0.87%	1.75	-2.78%
2024-8-27	2600MHz	Head	39.62	1.56%	1.986	1.33%
2024-8-28	2600MHz	Head	39.51	1.28%	2.007	2.40%
2024-8-30	3500 MHz	Head	37.42	-1.34%	2.883	-0.93%
2024-8-30	3700 MHz	Head	37.26	-1.17%	3.167	1.51%
2024-8-31	3900 MHz	Head	37.1	-0.99%	3.26	-1.81%
2024-9-1	5250 MHz	Head	36.84	2.53%	4.671	-0.83%
2024-9-2	5600 MHz	Head	36.52	2.79%	4.97	-1.97%
2024-9-3	5750 MHz	Head	36.41	2.97%	5.125	-1.82%

Note: The liquid temperature is 22.0℃



Picture 7.1: Liquid depth in the Head Phantom

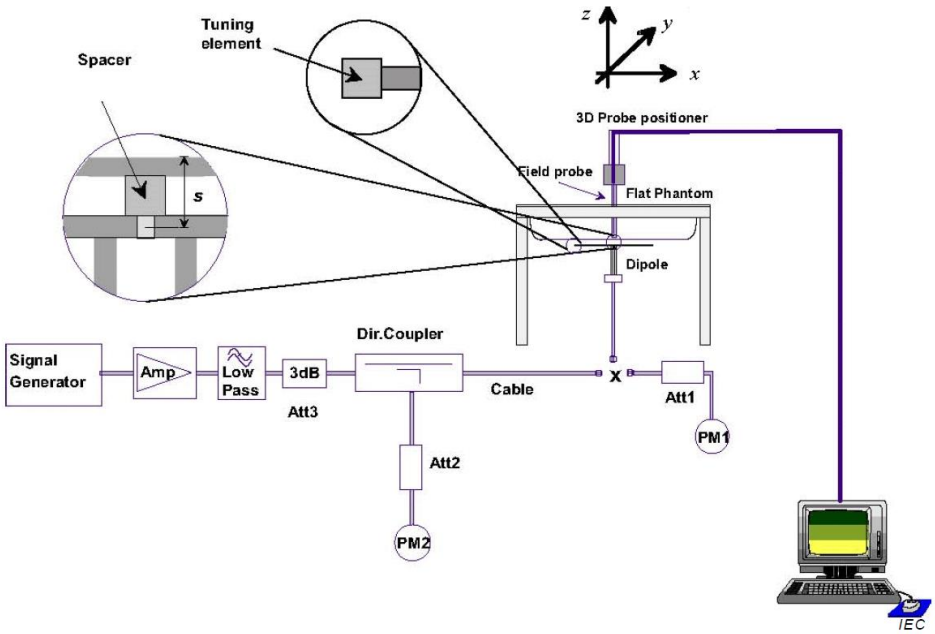


Picture 7.2 Liquid depth in the Flat Phantom

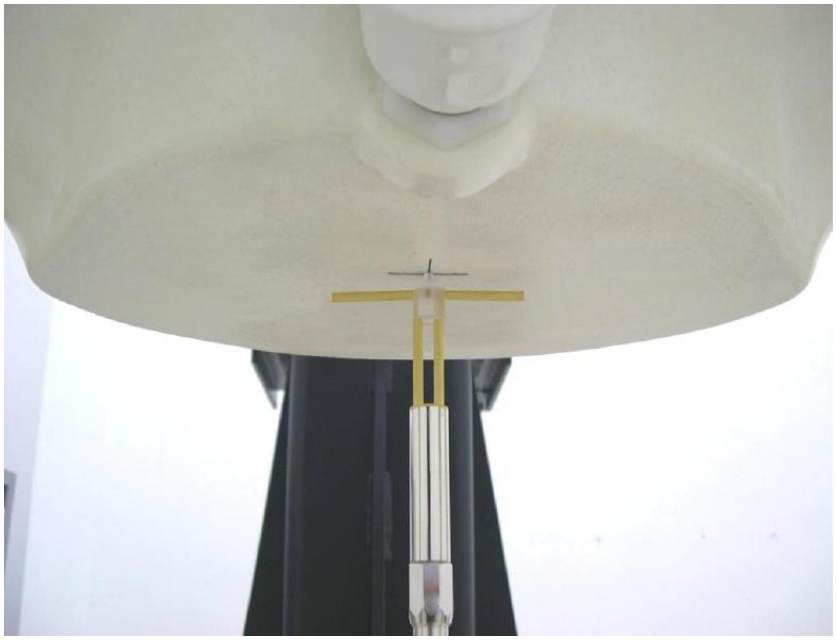
8 System verification

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 8.1 System Setup for System Evaluation



Picture 8.2 Photo of Dipole Setup

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.

The system verification results are required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR. The details are presented in annex B.

Table 8.1: System Verification of Head

Measurement Date	Frequency	Target value (W/kg)		Measured value (W/kg)		Deviation	
(yyyy-mm-dd)		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2024-8-26	750MHz	5.49	8.42	5.32	8.16	-3.10%	-3.09%
2024-8-20	835MHz	6.25	9.62	6.36	9.8	1.76%	1.87%
2024-8-22	1800MHz	19.8	37.9	19.4	37.04	-2.02%	-2.27%
2024-8-23	1800MHz	19.8	37.9	19.64	37.48	-0.81%	-1.11%
2024-8-24	1900MHz	20.7	39.8	20.48	39.36	-1.06%	-1.11%
2024-8-25	1900MHz	20.7	39.8	21	40.32	1.45%	1.31%
2024-8-29	2450MHz	24.7	52.1	25.44	53.64	3.00%	2.96%
2024-8-27	2600MHz	25.1	55.2	24.76	54.48	-1.35%	-1.30%
2024-8-28	2600MHz	25.1	55.2	24.8	54.4	-1.20%	-1.45%
2024-8-30	3500 MHz	25.2	66.9	24.5	65.1	-2.78%	-2.69%
2024-8-30	3700 MHz	24.7	67.8	25.3	69.6	2.43%	2.65%
2024-8-31	3900 MHz	24.2	69.9	23.5	67.7	-2.89%	-3.15%
2024-9-1	5250 MHz	22.8	79.6	22.6	79	-0.88%	-0.75%
2024-9-2	5600 MHz	23.8	83.6	24.1	84.6	1.26%	1.20%
2024-9-3	5750 MHz	22.7	80.5	22.8	80.8	0.44%	0.37%

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 9.1.

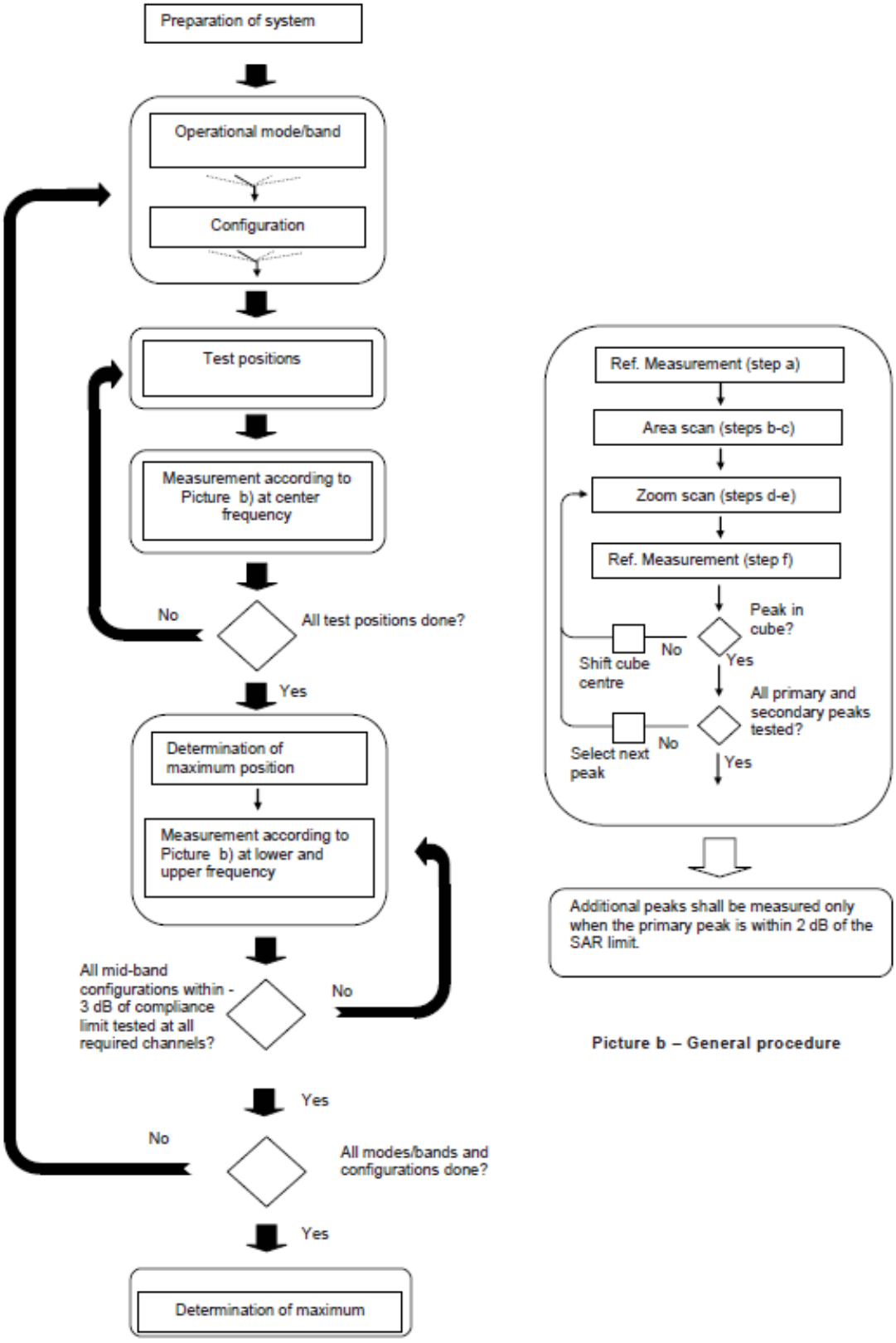
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

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 9.2 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.



Picture 9.1Block diagram of the tests to be performed

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>

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.

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.

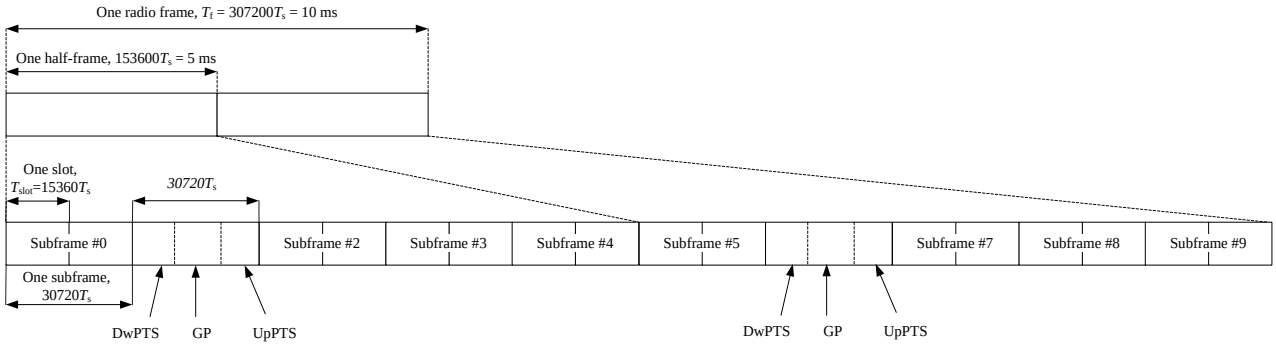


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

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

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 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%.

10 Area Scan Based 1-g SAR

10.1 Requirement of KDB

According to the KDB447498 D01, when the implementation is based the specific polynomial fit algorithm as presented at the 29th Bioelectromagnetics Society meeting (2007) and the estimated 1-gSAR is ≤ 1.2 W/kg, a zoom scan measurement is not required provided it is also not needed for any other purpose; for example, if the peak SAR location required for simultaneous transmission SAR test exclusion can be determined accurately by the SAR system or manually to discriminate between distinctive peaks and scattered noisy SAR distributions from area scans.

There must not be any warning or alert messages due to various measurement concerns identified by the SAR system; for example, noise in measurements, peaks too close to scan boundary, peaks are too sharp, spatial resolution and uncertainty issues etc. The SAR system verification must also demonstrate that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR (See Annex B). When all the SAR results for each exposure condition in a frequency band and wireless mode are based on estimated 1-g SAR, the 1-g SAR for the highest SAR configuration must be determined by a zoom scan.

10.2 Fast SAR Algorithms

The approach is based on the area scan measurement applying a frequency dependent attenuation parameter. This attenuation parameter was empirically determined by analyzing a large number of phones. The MOTOROLA FAST SAR was developed and validated by the MOTOROLA Research Group in Ft. Lauderdale.

In the initial study, an approximation algorithm based on Linear fit was developed. The accuracy of the algorithm has been demonstrated across a broad frequency range (136-2450 MHz)and for both 1- and 10-g averaged SAR using a sample of 264 SAR measurements from 55wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm mare 1.2% and 5.8% for 1- and 10-g averaged SAR, respectively. The paper describing the algorithm in detail is expected to be published in August 2004 within the Special Issue of Transactions on MTT.

In the second step, the same research group optimized the fitting algorithm to an Polynomial fit whereby the frequency validity was extended to cover the range 30-6000MHz. Details of this study can be found in the BEMS 2007 Proceedings.

Both algorithms are implemented in DASY software.

11 Conducted Output Power

Table 11: Summary of Receiver detection mechanism-Main antenna

Antenna	Receiver off+ Sensor off (Normal power)	SA+WIFI		ENDC+WIFI	
		Receiver on (Head scenario)	Receiver off+ Sensor on (Body scenario)	Receiver on (Head scenario)	Receiver off+ Sensor on (Body scenario)
Main Antenna	Power Level A1	Power Level B1	Power Level C1	Power Level D1	Power Level E1

11.1 GSM Measurement result

Table 11.1-1: The conducted power measurement results–GSM850 ANT0 (Power Level A1/B1)

GSM 850 Speech (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.60	32.61	32.59	34.00	/	/	/	/
GSM 850 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.60	32.50	32.46	34.00	-9.03	23.57	23.47	23.43
2 Txslots	30.58	30.52	30.47	32.00	-6.02	24.56	24.50	24.45
3 Txslots	28.47	28.40	28.34	30.00	-4.26	24.21	24.14	24.08
4 Txslots	27.39	27.30	27.23	29.00	-3.01	24.38	24.29	24.22
GSM 850 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.54	32.51	32.46	34.00	-9.03	23.51	23.48	23.43
2 Txslots	30.57	30.53	30.48	32.00	-6.02	24.55	24.51	24.46
3 Txslots	28.48	28.41	28.34	30.00	-4.26	24.22	24.15	24.08
4 Txslots	27.39	27.31	27.24	29.00	-3.01	24.38	24.30	24.23
GSM 850 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	26.00	25.92	26.10	27.50	-9.03	16.97	16.89	17.07
2 Txslots	24.18	24.09	24.08	25.50	-6.02	18.16	18.07	18.06
3Txslots	22.07	22.03	21.96	23.50	-4.26	17.81	17.77	17.70
4 Txslots	21.26	21.17	21.11	22.50	-3.01	18.25	18.16	18.10

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

Table 11.1-2: The conducted power measurement results–GSM850 ANT1 (Power Level C1)

GSM 850 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.98	32.05	32.06	33.00	-9.03	22.95	23.02	23.03
2 Txslots	29.72	29.76	29.75	31.00	-6.02	23.70	23.74	23.73
3 Txslots	27.21	27.23	27.16	28.50	-4.26	22.95	22.97	22.90
4 Txslots	26.16	26.14	26.07	27.50	-3.01	23.15	23.13	23.06
GSM 850 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	31.98	32.06	32.06	33.00	-9.03	22.95	23.03	23.03
2 Txslots	29.72	29.76	29.75	31.00	-6.02	23.70	23.74	23.73
3 Txslots	27.21	27.23	27.17	28.50	-4.26	22.95	22.97	22.91
4 Txslots	26.16	26.15	26.08	27.50	-3.01	23.15	23.14	23.07

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

Table 11.1-3: The conducted power measurement results-GSM1900 ANT1

(Power Level A1/B1)

PCS1900 Speech (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.64	29.80	29.76	31.00	/	/	/	/
PCS1900 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.59	29.70	29.69	31.00	-9.03	20.56	20.67	20.66
2 Txslots	27.54	27.59	27.54	29.00	-6.02	21.52	21.57	21.52
3 Txslots	25.41	25.46	25.41	27.00	-4.26	21.15	21.20	21.15
4 Txslots	24.37	24.41	24.37	26.00	-3.01	21.36	21.40	21.36
PCS1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	29.61	29.72	29.73	31.00	-9.03	20.58	20.69	20.70
2 Txslots	27.57	27.63	27.59	29.00	-6.02	21.55	21.61	21.57
3 Txslots	25.44	25.49	25.46	27.00	-4.26	21.18	21.23	21.20
4 Txslots	24.40	24.44	24.42	26.00	-3.01	21.39	21.43	21.41
PCS1900 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	24.88	24.93	24.97	26.50	-9.03	15.85	15.90	15.94
2 Txslots	23.08	23.13	23.12	24.50	-6.02	17.06	17.11	17.10
3Txslots	21.41	21.46	21.48	22.50	-4.26	17.15	17.20	17.22
4 Txslots	20.67	20.72	20.88	21.50	-3.01	17.66	17.71	17.87

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

Table 11.1-4: The conducted power measurement results-GSM1900 ANT1
(Power Level C1)

PCS1900 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	27.64	27.67	27.90	28.50	-9.03	18.61	18.64	18.87
2 Txslots	25.23	25.30	25.48	26.50	-6.02	19.21	19.28	19.46
3 Txslots	22.83	22.94	23.09	24.00	-4.26	18.57	18.68	18.83
4 Txslots	21.55	21.62	21.76	23.00	-3.01	18.54	18.61	18.75
PCS1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	27.63	27.67	27.90	28.50	-9.03	18.60	18.64	18.87
2 Txslots	25.23	25.30	25.47	26.50	-6.02	19.21	19.28	19.45
3 Txslots	22.83	22.94	23.09	24.00	-4.26	18.57	18.68	18.83
4 Txslots	21.55	21.62	21.76	23.00	-3.01	18.54	18.61	18.75

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

11.2 WCDMA Measurement result

Table 11.2-1: The conducted Power for WCDMA B2/B4/B5 (Power Level A1/B1)

WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938	9400/9800	9262/9662	
	(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	23.66	23.69	23.76	25.50
HSUPA	21.4	21.38	21.42	22.50
	20.92	20.93	20.96	22.50
	20.96	20.94	20.95	22.50
	20.47	20.45	20.44	22.00
	21.89	21.91	21.92	23.50
HSPA+	22.42	22.37	22.33	24.50
DC-HSDPA	22.9	22.87	22.88	24.50
	22.87	22.88	22.90	24.50
	22.41	22.41	22.42	24.00
	22.37	22.38	22.37	24.00

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	23.93	23.91	23.85	25.50
HSUPA	21.51	21.48	21.49	22.50
	20.99	20.97	20.94	22.50
	21	20.98	21.03	22.50
	20.5	20.51	20.56	22.00
	21.9	21.95	21.99	23.50
HSPA+	22.57	22.52	22.51	24.50
DC-HSDPA	22.96	22.93	22.89	24.50
	22.88	22.87	22.90	24.50
	22.5	22.50	22.45	24.00
	22.42	22.44	22.49	24.00

WCDMA850	FDDV result (dBm)			Tune up
	4233/4458	4183/4408	4132/4357	
	(846.6MHz)	(836.6MHz)	(826.4MHz)	
	24.55	24.57	24.67	26.00
HSUPA	21.64	21.63	21.60	23.00
	21.69	21.69	21.73	23.00
	21.63	21.63	21.62	23.50
	21.18	21.22	21.19	22.50
	22.43	22.48	22.44	23.50
HSPA+	23.22	23.17	23.17	25.00
DC-HSDPA	23.71	23.67	23.70	24.50
	23.58	23.55	23.57	24.50
	23.28	23.23	23.21	24.00
	23.15	23.18	23.18	24.00

Table 11.2-2: The conducted Power for WCDMA B2/B4/B5 (Power Level C1)

WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938	9400/9800	9262/9662	
	(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	21.82	21.83	21.89	23.00
HSUPA	18.64	18.63	18.66	19.50
	18.71	18.75	18.77	19.50
	18.76	18.75	18.76	19.50
	18.34	18.29	18.24	19.10
	19.73	19.75	19.72	20.50
HSPA+	20.26	20.31	20.29	21.10
DC-HSDPA	20.81	20.78	20.74	21.50
	20.8	20.77	20.73	21.50
	20.33	20.31	20.26	21.10
	19.47	19.46	19.44	20.10

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	22.21	22.25	22.23	23.50
HSUPA	19.15	19.19	19.23	20.90
	19.26	19.30	19.31	20.90
	19.28	19.31	19.36	20.90
	18.88	18.84	18.89	20.30
	19.8	19.75	19.75	21.30
HSPA+	20.88	20.85	20.87	22.30
DC-HSDPA	21.34	21.29	21.30	22.90
	21.19	21.24	21.21	22.90
	20.88	20.85	20.81	22.30
	20.07	20.03	20.06	21.50

WCDMA850	FDDV result (dBm)			Tune up
	4233/4458	4183/4408	4132/4357	
	(846.6MHz)	(836.6MHz)	(826.4MHz)	
	21.70	21.73	21.72	23.00
HSUPA	18.74	18.74	18.72	19.60
	18.68	18.73	18.73	19.60
	18.83	18.78	18.83	19.60
	18.33	18.38	18.38	19.20
	19.71	19.72	19.72	20.60
HSPA+	20.33	20.31	20.29	21.20
DC-HSDPA	20.83	20.78	20.76	21.60
	20.72	20.75	20.73	21.60
	20.49	20.45	20.42	21.20
	20.29	20.29	20.31	21.20

11.3 LTE Measurement result

Maximum Target Power for Production Unit

Band	Antenna	Tune up (dBm)				
		Receiver off+ Sensor off (Normal power)	SA+WIFI		ENDC(ULCA)+WIFI	
			Receiver on (Head scenario)	Receiver off+ Sensor on (Body scenario)	Receiver on (Head scenario)	Receiver off+ Sensor on (Body scenario)
		Power Level A1	Power Level B1	Power Level C1	Power Level D1	Power Level E1
LTE B2	ANT1	25.5	25.5	23	25.5	20
LTE B2	ANT4	25.5	N/A	N/A	15.5	19
LTE B5	ANT0	25.5	25.5	23.5	25.5	19
LTE B7	ANT4	24.5	17	18	14	15
LTE B7	ANT0	24.5	N/A	N/A	17	14
LTE B12	ANT0	25.5	25.5	25.5	25.5	25.5
LTE B26	ANT0	26	26	26	26	26
LTE B41	ANT4	25	21	20.5	N/A	N/A
LTE B41	ANT0	25	25	16.5	25	13.5
LTE B66	ANT1	25	25	24	25	21
LTE B66	ANT4	25	N/A	N/A	18.5	21.5

Maximum Power Reduction (MPR) for LTE

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	3
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	3

LTE Band2 ANT1 (Power Level A1/B1/D1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	23.26	22.49	21.38	19.07
		1880 (18900)	23.27	22.47	21.41	18.90
		1850.7 (18607)	23.29	22.48	21.30	18.83
	1RB-Middle (3)	1909.3 (19193)	23.24	22.58	21.43	19.03
		1880 (18900)	23.20	22.54	21.43	18.89
		1850.7 (18607)	23.07	22.44	21.21	18.87
	1RB-Low (0)	1909.3 (19193)	23.26	22.43	21.44	18.97
		1880 (18900)	23.29	22.54	21.38	18.88
		1850.7 (18607)	23.31	22.40	21.34	19.00
	3RB-High (3)	1909.3 (19193)	23.34	22.35	21.35	18.96
		1880 (18900)	23.25	22.17	21.28	18.81
		1850.7 (18607)	23.17	22.08	21.15	18.92
	3RB-Middle (1)	1909.3 (19193)	23.25	22.31	21.33	18.96
		1880 (18900)	23.17	22.13	21.26	19.00
		1850.7 (18607)	23.20	22.12	21.28	18.84
	3RB-Low (0)	1909.3 (19193)	23.27	22.29	21.32	18.99
		1880 (18900)	23.24	22.12	21.29	18.82
		1850.7 (18607)	23.12	22.08	21.13	18.99
	6RB (0)	1909.3 (19193)	22.28	21.32	20.27	19.04
		1880 (18900)	22.17	21.26	20.06	19.03
		1850.7 (18607)	22.16	21.26	20.13	19.03
3MHz	1RB-High (14)	1908.5 (19185)	23.26	22.48	21.49	18.84
		1880 (18900)	23.14	22.42	21.38	18.92
		1851.5 (18615)	23.03	22.33	21.26	18.86
	1RB-Middle (7)	1908.5 (19185)	23.24	22.50	21.46	18.87
		1880 (18900)	23.11	22.40	21.35	18.93
		1851.5 (18615)	23.04	22.35	21.29	18.86
	1RB-Low (0)	1908.5 (19185)	23.24	22.42	21.44	19.07
		1880 (18900)	23.18	22.50	21.40	18.96
		1851.5 (18615)	23.14	22.35	21.30	18.95
	8RB-High (7)	1908.5 (19185)	22.27	21.29	20.37	19.06
		1880 (18900)	22.22	21.27	20.26	18.88
		1851.5 (18615)	22.12	21.12	20.22	19.05
	8RB-Middle (4)	1908.5 (19185)	22.26	21.32	20.34	19.02
		1880 (18900)	22.19	21.29	20.21	18.90
		1851.5 (18615)	22.15	21.17	20.18	19.04
	8RB-Low (0)	1908.5 (19185)	22.29	21.35	20.31	18.97
		1880 (18900)	22.23	21.26	20.26	18.91

		1851.5 (18615)	22.15	21.22	20.22	18.85
	15RB (0)	1908.5 (19185)	22.26	21.27	20.28	18.86
		1880 (18900)	22.23	21.25	20.23	18.77
		1851.5 (18615)	22.13	21.16	20.13	18.97
5MHz	1RB-High (24)	1907.5 (19175)	23.29	22.44	21.42	18.96
		1880 (18900)	23.23	22.44	21.45	18.84
		1852.5 (18625)	23.15	22.35	21.32	19.00
	1RB-Middle (12)	1907.5 (19175)	23.31	22.49	21.47	19.00
		1880 (18900)	23.23	22.56	21.50	18.77
		1852.5 (18625)	23.16	22.33	21.37	19.03
	1RB-Low (0)	1907.5 (19175)	23.23	22.40	21.46	18.95
		1880 (18900)	23.25	22.51	21.47	18.98
		1852.5 (18625)	23.24	22.44	21.33	19.06
	12RB-High (13)	1907.5 (19175)	22.32	21.30	20.34	18.99
		1880 (18900)	22.25	21.28	20.27	18.77
		1852.5 (18625)	22.14	21.13	20.23	19.07
	12RB-Middle (6)	1907.5 (19175)	22.29	21.34	20.33	18.99
		1880 (18900)	22.27	21.27	20.29	18.98
		1852.5 (18625)	22.16	21.18	20.21	19.05
	12RB-Low (0)	1907.5 (19175)	22.28	21.32	20.33	19.04
		1880 (18900)	22.24	21.26	20.31	18.93
		1852.5 (18625)	22.18	21.20	20.25	18.77
	25RB (0)	1907.5 (19175)	22.30	21.32	20.26	19.00
		1880 (18900)	22.32	21.29	20.28	18.84
		1852.5 (18625)	22.17	21.18	20.15	18.97
10MHz	1RB-High (49)	1905 (19150)	23.30	22.64	21.49	18.88
		1880 (18900)	23.30	22.60	21.38	18.78
		1855 (18650)	23.24	22.42	21.42	18.92
	1RB-Middle (24)	1905 (19150)	23.19	22.45	21.36	18.99
		1880 (18900)	23.27	22.46	21.47	18.79
		1855 (18650)	23.05	22.34	21.25	18.95
	1RB-Low (0)	1905 (19150)	23.25	22.61	21.43	18.81
		1880 (18900)	23.33	22.65	21.45	18.87
		1855 (18650)	23.34	22.38	21.33	18.77
	25RB-High (25)	1905 (19150)	22.28	21.27	20.25	18.84
		1880 (18900)	22.25	21.22	20.23	18.78
		1855 (18650)	22.16	21.15	20.15	18.93
	25RB-Middle (12)	1905 (19150)	22.28	21.27	20.28	19.04
		1880 (18900)	22.24	21.24	20.14	19.03
		1855 (18650)	22.17	21.13	20.13	19.05
	25RB-Low (0)	1905 (19150)	22.28	21.27	20.27	19.03

		1880 (18900)	22.28	21.28	20.28	18.81
		1855 (18650)	22.19	21.19	20.17	19.03
	50RB (0)	1905 (19150)	22.24	21.27	20.26	18.85
		1880 (18900)	22.28	21.27	20.28	19.04
		1855 (18650)	22.20	21.19	20.17	18.86
15MHz	1RB-High (74)	1902.5 (19125)	23.26	22.60	21.49	19.06
		1880 (18900)	23.39	22.51	21.39	18.99
		1857.5 (18675)	23.38	22.50	21.45	19.03
	1RB-Middle (37)	1902.5 (19125)	23.31	22.49	21.36	18.95
		1880 (18900)	23.31	22.55	21.44	19.01
		1857.5 (18675)	23.24	22.46	21.17	18.86
	1RB-Low (0)	1902.5 (19125)	23.34	22.53	21.34	18.89
		1880 (18900)	23.25	22.53	21.50	19.02
		1857.5 (18675)	23.29	22.45	21.33	18.87
	36RB-High (38)	1902.5 (19125)	22.27	21.28	20.31	19.05
		1880 (18900)	22.22	21.27	20.27	18.84
		1857.5 (18675)	22.22	21.23	20.24	19.02
	36RB-Middle (19)	1902.5 (19125)	22.31	21.20	20.25	18.90
		1880 (18900)	22.27	21.28	20.31	18.99
		1857.5 (18675)	22.16	21.17	20.21	18.89
	36RB-Low (0)	1902.5 (19125)	22.31	21.22	20.26	18.89
		1880 (18900)	22.30	21.28	20.31	18.78
		1857.5 (18675)	22.18	21.18	20.16	19.02
	75RB (0)	1902.5 (19125)	22.34	21.26	20.26	18.90
		1880 (18900)	22.29	21.32	20.27	18.87
		1857.5 (18675)	22.23	21.23	20.23	19.07
20MHz	1RB-High (99)	1900 (19100)	23.43	22.70	21.55	18.81
		1880 (18900)	23.34	22.66	21.45	18.82
		1860 (18700)	23.39	22.70	21.47	19.00
	1RB-Middle (50)	1900 (19100)	23.26	22.66	21.48	18.91
		1880 (18900)	23.45	22.64	21.42	18.95
		1860 (18700)	23.29	22.53	21.51	18.77
	1RB-Low (0)	1900 (19100)	23.35	22.57	21.45	19.04
		1880 (18900)	23.36	22.65	21.43	18.92
		1860 (18700)	23.29	22.53	21.41	18.95
	50RB-High (50)	1900 (19100)	22.32	21.30	20.27	18.88
		1880 (18900)	22.32	21.34	20.28	19.07
		1860 (18700)	22.42	21.36	20.38	19.05
	50RB-Middle (25)	1900 (19100)	22.35	21.34	20.33	18.87
		1880 (18900)	22.43	21.39	20.34	19.03
		1860 (18700)	22.34	21.28	20.30	18.93

	50RB-Low (0)	1900 (19100)	22.33	21.28	20.23	18.82
		1880 (18900)	22.38	21.39	20.37	19.00
		1860 (18700)	22.29	21.25	20.26	19.04
	100RB (0)	1900 (19100)	22.31	21.28	20.25	19.05
		1880 (18900)	22.38	21.34	20.30	19.07
		1860 (18700)	22.35	21.29	20.31	18.80

LTE Band2 ANT1 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	21.62	21.71	21.83	18.15
		1880 (18900)	21.62	21.74	21.61	18.21
		1850.7 (18607)	21.59	21.80	21.66	18.39
	1RB-Middle (3)	1909.3 (19193)	21.56	21.61	21.69	18.39
		1880 (18900)	21.53	21.79	21.75	18.15
		1850.7 (18607)	21.56	21.73	21.82	18.14
	1RB-Low (0)	1909.3 (19193)	21.63	21.89	21.59	18.22
		1880 (18900)	21.60	21.78	21.69	18.35
		1850.7 (18607)	21.71	21.69	21.57	18.22
	3RB-High (3)	1909.3 (19193)	21.37	21.71	20.65	18.51
		1880 (18900)	21.74	21.56	20.64	18.27
		1850.7 (18607)	21.51	21.84	20.56	18.32
	3RB-Middle (1)	1909.3 (19193)	21.54	21.51	20.45	18.34
		1880 (18900)	21.53	21.68	20.72	18.40
		1850.7 (18607)	21.81	21.67	20.65	18.33
	3RB-Low (0)	1909.3 (19193)	21.51	21.59	20.56	18.17
		1880 (18900)	21.68	21.58	20.67	18.29
		1850.7 (18607)	21.70	21.76	20.50	18.32
	6RB (0)	1909.3 (19193)	21.69	21.51	20.53	18.34
		1880 (18900)	21.64	21.56	20.61	18.06
		1850.7 (18607)	21.56	21.78	20.68	18.24
3MHz	1RB-High (14)	1908.5 (19185)	21.45	21.77	21.79	18.39
		1880 (18900)	21.52	21.73	21.76	18.13
		1851.5 (18615)	21.66	21.94	21.61	18.49
	1RB-Middle (7)	1908.5 (19185)	21.48	21.60	21.48	18.36
		1880 (18900)	21.58	21.86	21.76	18.09
		1851.5 (18615)	21.65	21.82	21.82	18.19
	1RB-Low (0)	1908.5 (19185)	21.50	21.78	21.52	18.48
		1880 (18900)	21.72	21.73	21.64	18.31
		1851.5 (18615)	21.47	21.71	21.56	18.44
	8RB-High (7)	1908.5 (19185)	21.50	21.66	20.57	18.44

		1880 (18900)	21.67	21.65	20.46	18.28
		1851.5 (18615)	21.75	21.84	20.51	18.38
	8RB-Middle (4)	1908.5 (19185)	21.50	21.46	20.51	18.37
		1880 (18900)	21.63	21.54	20.51	18.56
		1851.5 (18615)	21.62	21.59	20.62	18.50
	8RB-Low (0)	1908.5 (19185)	21.50	21.65	20.65	18.16
		1880 (18900)	21.54	21.73	20.77	18.19
		1851.5 (18615)	21.60	21.63	20.55	18.42
	15RB (0)	1908.5 (19185)	21.62	21.59	20.41	18.42
		1880 (18900)	21.69	21.62	20.55	18.04
		1851.5 (18615)	21.68	21.52	20.62	18.28
5MHz	1RB-High (24)	1907.5 (19175)	21.54	21.83	21.72	18.14
		1880 (18900)	21.71	21.76	21.57	18.32
		1852.5 (18625)	21.70	21.76	21.62	18.22
	1RB-Middle (12)	1907.5 (19175)	21.49	21.78	21.43	18.52
		1880 (18900)	21.73	21.86	21.60	18.14
		1852.5 (18625)	21.52	21.97	21.87	18.24
	1RB-Low (0)	1907.5 (19175)	21.59	21.79	21.46	18.41
		1880 (18900)	21.78	21.86	21.82	18.30
		1852.5 (18625)	21.50	21.79	21.72	18.46
	12RB-High (13)	1907.5 (19175)	21.64	21.49	20.45	18.55
		1880 (18900)	21.60	21.60	20.59	18.30
		1852.5 (18625)	21.57	21.79	20.78	18.37
	12RB-Middle (6)	1907.5 (19175)	21.54	21.48	20.49	18.28
		1880 (18900)	21.60	21.60	20.52	18.28
		1852.5 (18625)	21.62	21.56	20.49	18.36
	12RB-Low (0)	1907.5 (19175)	21.72	21.54	20.55	18.34
		1880 (18900)	21.55	21.76	20.52	18.15
		1852.5 (18625)	21.76	21.74	20.48	18.42
	25RB (0)	1907.5 (19175)	21.61	21.57	20.47	18.48
		1880 (18900)	21.53	21.51	20.74	18.10
		1852.5 (18625)	21.69	21.52	20.74	18.07
10MHz	1RB-High (49)	1905 (19150)	21.69	21.82	21.72	18.24
		1880 (18900)	21.71	21.86	21.72	18.18
		1855 (18650)	21.60	21.82	21.85	18.24
	1RB-Middle (24)	1905 (19150)	21.63	21.84	21.67	18.43
		1880 (18900)	21.58	21.76	21.56	18.23
		1855 (18650)	21.70	21.84	21.72	18.26
	1RB-Low (0)	1905 (19150)	21.52	21.79	21.48	18.25
		1880 (18900)	21.64	21.83	21.60	18.19
		1855 (18650)	21.52	21.82	21.62	18.30

	25RB-High (25)	1905 (19150)	21.66	21.59	20.69	18.45
		1880 (18900)	21.51	21.47	20.49	18.09
		1855 (18650)	21.71	21.58	20.68	18.41
	25RB-Middle (12)	1905 (19150)	21.40	21.44	20.48	18.25
		1880 (18900)	21.77	21.69	20.58	18.33
		1855 (18650)	21.63	21.75	20.70	18.36
	25RB-Low (0)	1905 (19150)	21.48	21.50	20.64	18.13
		1880 (18900)	21.56	21.57	20.53	18.44
		1855 (18650)	21.66	21.53	20.78	18.39
	50RB (0)	1905 (19150)	21.59	21.52	20.44	18.30
		1880 (18900)	21.66	21.65	20.75	18.30
		1855 (18650)	21.66	21.63	20.51	18.36
15MHz	1RB-High (74)	1902.5 (19125)	21.50	21.75	21.87	18.40
		1880 (18900)	21.53	21.66	21.81	18.24
		1857.5 (18675)	21.70	21.94	21.58	18.32
	1RB-Middle (37)	1902.5 (19125)	21.58	21.55	21.69	18.53
		1880 (18900)	21.64	21.85	21.75	18.14
		1857.5 (18675)	21.80	22.02	21.86	18.05
	1RB-Low (0)	1902.5 (19125)	21.53	21.84	21.76	18.26
		1880 (18900)	21.88	21.88	21.67	18.21
		1857.5 (18675)	21.49	21.89	21.62	18.42
	36RB-High (38)	1902.5 (19125)	21.45	21.50	20.53	18.43
		1880 (18900)	21.64	21.65	20.47	18.24
		1857.5 (18675)	21.66	21.64	20.51	18.31
	36RB-Middle (19)	1902.5 (19125)	21.68	21.52	20.49	18.46
		1880 (18900)	21.65	21.51	20.70	18.31
		1857.5 (18675)	21.60	21.78	20.71	18.31
	36RB-Low (0)	1902.5 (19125)	21.74	21.55	20.53	18.32
		1880 (18900)	21.50	21.65	20.63	18.18
		1857.5 (18675)	21.64	21.74	20.64	18.28
	75RB (0)	1902.5 (19125)	21.53	21.62	20.59	18.29
		1880 (18900)	21.54	21.45	20.68	18.08
		1857.5 (18675)	21.76	21.62	20.80	18.22
20MHz	1RB-High (99)	1900 (19100)	21.59	21.78	21.76	18.28
		1880 (18900)	21.57	21.75	21.69	18.28
		1860 (18700)	21.63	21.84	21.72	18.37
	1RB-Middle (50)	1900 (19100)	21.51	21.70	21.57	18.39
		1880 (18900)	21.67	21.75	21.70	18.17
		1860 (18700)	21.66	21.88	21.73	18.16
	1RB-Low (0)	1900 (19100)	21.55	21.76	21.61	18.35
		1880 (18900)	21.73	21.85	21.75	18.26

		1860 (18700)	21.61	21.76	21.64	18.36
	50RB-High (50)	1900 (19100)	21.52	21.57	20.55	18.42
		1880 (18900)	21.61	21.58	20.58	18.23
		1860 (18700)	21.66	21.69	20.66	18.38
	50RB-Middle (25)	1900 (19100)	21.54	21.56	20.54	18.40
		1880 (18900)	21.68	21.59	20.61	18.42
		1860 (18700)	21.67	21.65	20.64	18.41
	50RB-Low (0)	1900 (19100)	21.60	21.64	20.57	18.19
		1880 (18900)	21.65	21.68	20.62	18.29
		1860 (18700)	21.65	21.63	20.63	18.28
	100RB (0)	1900 (19100)	21.54	21.56	20.55	18.39
		1880 (18900)	21.62	21.59	20.60	18.18
		1860 (18700)	21.68	21.66	20.66	18.21

LTE Band2 ANT1 (Power Level E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	18.62	18.80	18.54	18.36
		1880 (18900)	18.47	18.73	18.52	18.51
		1850.7 (18607)	18.66	18.70	18.67	18.03
	1RB-Middle (3)	1909.3 (19193)	18.55	18.60	18.72	18.48
		1880 (18900)	18.59	18.81	18.52	18.22
		1850.7 (18607)	18.76	18.80	18.56	18.30
	1RB-Low (0)	1909.3 (19193)	18.58	18.64	18.59	18.31
		1880 (18900)	18.56	18.83	18.76	18.37
		1850.7 (18607)	18.71	18.72	18.58	18.13
	3RB-High (3)	1909.3 (19193)	18.48	18.58	18.33	18.17
		1880 (18900)	18.54	18.54	18.60	18.25
		1850.7 (18607)	18.59	18.65	18.45	18.47
	3RB-Middle (1)	1909.3 (19193)	18.44	18.58	18.52	18.10
		1880 (18900)	18.54	18.69	18.66	18.20
		1850.7 (18607)	18.69	18.63	18.61	18.30
	3RB-Low (0)	1909.3 (19193)	18.51	18.69	18.61	18.17
		1880 (18900)	18.60	18.53	18.54	18.58
		1850.7 (18607)	18.77	18.62	18.60	18.31
	6RB (0)	1909.3 (19193)	18.71	18.41	18.60	18.26
		1880 (18900)	18.57	18.55	18.72	18.48
		1850.7 (18607)	18.79	18.72	18.78	18.32
3MHz	1RB-High (14)	1908.5 (19185)	18.58	18.82	18.63	18.22
		1880 (18900)	18.43	18.86	18.53	18.45
		1851.5 (18615)	18.69	18.78	18.53	18.07

	1RB-Middle (7)	1908.5 (19185)	18.39	18.57	18.58	18.46
		1880 (18900)	18.51	18.77	18.79	18.13
		1851.5 (18615)	18.68	18.84	18.73	18.01
	1RB-Low (0)	1908.5 (19185)	18.61	18.61	18.68	18.43
		1880 (18900)	18.56	18.73	18.66	18.29
		1851.5 (18615)	18.59	18.59	18.55	18.23
	8RB-High (7)	1908.5 (19185)	18.43	18.38	18.38	18.37
		1880 (18900)	18.54	18.65	18.66	18.38
		1851.5 (18615)	18.76	18.54	18.61	18.33
	8RB-Middle (4)	1908.5 (19185)	18.63	18.56	18.64	18.09
		1880 (18900)	18.67	18.48	18.53	18.17
		1851.5 (18615)	18.65	18.77	18.67	18.36
	8RB-Low (0)	1908.5 (19185)	18.60	18.51	18.47	18.27
		1880 (18900)	18.59	18.46	18.71	18.50
		1851.5 (18615)	18.51	18.58	18.69	18.35
	15RB (0)	1908.5 (19185)	18.41	18.62	18.38	18.17
		1880 (18900)	18.56	18.56	18.46	18.25
		1851.5 (18615)	18.69	18.65	18.60	18.35
5MHz	1RB-High (24)	1907.5 (19175)	18.72	18.85	18.61	18.43
		1880 (18900)	18.62	18.82	18.63	18.31
		1852.5 (18625)	18.59	18.59	18.77	18.11
	1RB-Middle (12)	1907.5 (19175)	18.43	18.75	18.51	18.45
		1880 (18900)	18.49	18.82	18.57	18.12
		1852.5 (18625)	18.74	18.88	18.73	18.07
	1RB-Low (0)	1907.5 (19175)	18.47	18.72	18.66	18.46
		1880 (18900)	18.59	18.73	18.80	18.40
		1852.5 (18625)	18.50	18.78	18.66	18.21
	12RB-High (13)	1907.5 (19175)	18.49	18.35	18.47	18.35
		1880 (18900)	18.64	18.42	18.43	18.32
		1852.5 (18625)	18.63	18.66	18.52	18.28
	12RB-Middle (6)	1907.5 (19175)	18.56	18.40	18.50	18.19
		1880 (18900)	18.43	18.54	18.44	18.17
		1852.5 (18625)	18.67	18.58	18.65	18.52
	12RB-Low (0)	1907.5 (19175)	18.47	18.56	18.41	18.24
		1880 (18900)	18.75	18.73	18.50	18.45
		1852.5 (18625)	18.55	18.70	18.52	18.45
	25RB (0)	1907.5 (19175)	18.59	18.49	18.42	18.21
		1880 (18900)	18.72	18.63	18.64	18.49
		1852.5 (18625)	18.67	18.66	18.67	18.20
10MHz	1RB-High (49)	1905 (19150)	18.74	18.70	18.70	18.29
		1880 (18900)	18.57	18.77	18.51	18.34

		1855 (18650)	18.60	18.80	18.54	18.28
	1RB-Middle (24)	1905 (19150)	18.60	18.78	18.51	18.45
		1880 (18900)	18.48	18.85	18.52	18.33
		1855 (18650)	18.62	18.91	18.53	18.08
	1RB-Low (0)	1905 (19150)	18.52	18.87	18.51	18.44
		1880 (18900)	18.60	18.83	18.63	18.52
		1855 (18650)	18.63	18.73	18.60	18.24
	25RB-High (25)	1905 (19150)	18.50	18.62	18.55	18.41
		1880 (18900)	18.61	18.68	18.61	18.19
		1855 (18650)	18.75	18.69	18.60	18.28
	25RB-Middle (12)	1905 (19150)	18.36	18.46	18.56	18.31
		1880 (18900)	18.65	18.46	18.60	18.35
		1855 (18650)	18.72	18.61	18.58	18.58
	25RB-Low (0)	1905 (19150)	18.67	18.63	18.56	18.13
		1880 (18900)	18.70	18.71	18.75	18.38
		1855 (18650)	18.67	18.70	18.69	18.23
	50RB (0)	1905 (19150)	18.55	18.64	18.36	18.10
		1880 (18900)	18.69	18.60	18.53	18.34
		1855 (18650)	18.59	18.67	18.71	18.25
15MHz	1RB-High (74)	1902.5 (19125)	18.62	18.72	18.74	18.20
		1880 (18900)	18.62	18.68	18.61	18.44
		1857.5 (18675)	18.66	18.72	18.72	18.04
	1RB-Middle (37)	1902.5 (19125)	18.37	18.51	18.44	18.38
		1880 (18900)	18.66	18.87	18.64	18.06
		1857.5 (18675)	18.70	18.64	18.60	18.16
	1RB-Low (0)	1902.5 (19125)	18.50	18.86	18.69	18.41
		1880 (18900)	18.67	18.87	18.90	18.27
		1857.5 (18675)	18.70	18.68	18.59	18.09
	36RB-High (38)	1902.5 (19125)	18.54	18.44	18.45	18.15
		1880 (18900)	18.75	18.43	18.66	18.27
		1857.5 (18675)	18.71	18.61	18.50	18.42
	36RB-Middle (19)	1902.5 (19125)	18.65	18.60	18.38	18.32
		1880 (18900)	18.64	18.52	18.67	18.32
		1857.5 (18675)	18.66	18.63	18.50	18.29
	36RB-Low (0)	1902.5 (19125)	18.66	18.56	18.64	18.29
		1880 (18900)	18.54	18.52	18.58	18.38
		1857.5 (18675)	18.65	18.70	18.63	18.32
	75RB (0)	1902.5 (19125)	18.55	18.51	18.50	18.15
		1880 (18900)	18.70	18.66	18.58	18.21
		1857.5 (18675)	18.78	18.69	18.79	18.31
20MHz	1RB-High (99)	1900 (19100)	18.60	18.84	18.63	18.31

		1880 (18900)	18.58	18.77	18.61	18.39
		1860 (18700)	18.63	18.71	18.66	18.18
	1RB-Middle (50)	1900 (19100)	18.52	18.66	18.57	18.34
		1880 (18900)	18.62	18.80	18.67	18.20
		1860 (18700)	18.61	18.78	18.67	18.16
	1RB-Low (0)	1900 (19100)	18.57	18.75	18.57	18.38
		1880 (18900)	18.68	18.82	18.77	18.42
		1860 (18700)	18.62	18.67	18.69	18.23
	50RB-High (50)	1900 (19100)	18.52	18.49	18.47	18.28
		1880 (18900)	18.69	18.57	18.54	18.24
		1860 (18700)	18.65	18.63	18.59	18.36
	50RB-Middle (25)	1900 (19100)	18.51	18.50	18.51	18.23
		1880 (18900)	18.58	18.56	18.57	18.23
		1860 (18700)	18.61	18.64	18.64	18.44
	50RB-Low (0)	1900 (19100)	18.59	18.55	18.56	18.25
		1880 (18900)	18.62	18.60	18.61	18.43
		1860 (18700)	18.62	18.60	18.62	18.36
	100RB (0)	1900 (19100)	18.56	18.52	18.51	18.15
		1880 (18900)	18.60	18.57	18.59	18.35
		1860 (18700)	18.67	18.57	18.64	18.34

LTE Band5 ANT0 (Power Level A1/B1/D1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (20643)	23.91	23.20	21.91	18.96
		836.5 (20525)	23.85	23.22	21.92	18.77
		824.7 (20407)	23.84	23.04	21.96	18.74
	1RB-Middle (3)	848.3 (20643)	23.86	23.10	22.17	19.10
		836.5 (20525)	24.00	23.01	22.05	18.92
		824.7 (20407)	23.90	23.31	22.09	18.90
	1RB-Low (0)	848.3 (20643)	23.86	23.36	22.16	18.81
		836.5 (20525)	23.94	23.34	22.10	18.82
		824.7 (20407)	23.83	23.11	22.00	18.85
	3RB-High (3)	848.3 (20643)	23.81	23.04	21.93	18.92
		836.5 (20525)	23.83	23.18	21.96	18.72
		824.7 (20407)	23.76	23.19	22.06	18.88
	3RB-Middle (1)	848.3 (20643)	23.84	23.20	22.01	19.12
		836.5 (20525)	23.95	23.14	22.08	18.83
		824.7 (20407)	23.94	23.19	22.20	18.74
	3RB-Low (0)	848.3 (20643)	23.99	23.26	22.19	18.79
		836.5 (20525)	24.10	23.22	22.23	18.97

		824.7 (20407)	23.86	23.28	22.04	18.74
	6RB (0)	848.3 (20643)	22.89	22.00	20.97	18.95
		836.5 (20525)	22.87	21.93	20.88	19.08
		824.7 (20407)	22.95	22.07	21.00	18.85
3MHz	1RB-High (14)	847.5 (20635)	23.87	23.21	22.00	18.96
		836.5 (20525)	23.88	23.12	21.95	18.78
		825.5 (20415)	23.89	23.14	21.94	18.75
	1RB-Middle (7)	847.5 (20635)	23.84	23.15	22.13	18.98
		836.5 (20525)	23.83	23.11	21.97	18.78
		825.5 (20415)	23.85	23.15	22.22	18.77
	1RB-Low (0)	847.5 (20635)	24.05	23.40	22.04	18.71
		836.5 (20525)	23.93	23.34	22.09	18.86
		825.5 (20415)	23.99	23.26	22.01	18.76
	8RB-High (7)	847.5 (20635)	22.99	21.92	20.97	18.76
		836.5 (20525)	23.00	21.95	20.94	19.06
		825.5 (20415)	23.07	22.05	20.93	19.11
	8RB-Middle (4)	847.5 (20635)	23.05	21.97	20.98	18.79
		836.5 (20525)	23.08	21.89	20.95	18.86
		825.5 (20415)	23.08	22.07	21.05	18.94
	8RB-Low (0)	847.5 (20635)	22.89	22.09	20.95	19.01
		836.5 (20525)	22.81	21.95	20.83	18.95
		825.5 (20415)	23.04	21.86	20.97	18.81
	15RB (0)	847.5 (20635)	23.08	21.96	20.94	18.99
		836.5 (20525)	22.87	21.99	20.85	19.03
		825.5 (20415)	22.96	22.02	20.94	18.78
5MHz	1RB-High (24)	846.5 (20625)	23.77	23.16	21.98	18.93
		836.5 (20525)	24.01	23.16	21.98	18.84
		826.5 (20425)	23.91	23.03	22.02	18.85
	1RB-Middle (12)	846.5 (20625)	23.93	23.10	22.20	19.02
		836.5 (20525)	23.90	23.11	21.95	18.88
		826.5 (20425)	23.93	23.20	22.22	18.90
	1RB-Low (0)	846.5 (20625)	24.04	23.25	22.23	18.74
		836.5 (20525)	24.08	23.28	22.23	18.90
		826.5 (20425)	23.91	23.21	22.08	18.90
	12RB-High (13)	846.5 (20625)	22.91	21.85	21.01	18.77
		836.5 (20525)	22.99	21.97	20.93	18.94
		826.5 (20425)	22.89	22.00	20.94	18.95
	12RB-Middle (6)	846.5 (20625)	22.87	21.92	21.03	18.90
		836.5 (20525)	23.14	21.98	20.92	18.94
		826.5 (20425)	23.05	21.92	21.00	19.03
	12RB-Low (0)	846.5 (20625)	23.07	22.06	20.87	18.94

		836.5 (20525)	22.88	21.98	20.83	18.94
		826.5 (20425)	22.98	22.00	21.00	18.85
	25RB (0)	846.5 (20625)	22.95	22.01	20.98	18.81
		836.5 (20525)	23.00	21.94	20.96	19.06
		826.5 (20425)	23.05	22.04	21.01	18.83
10MHz	1RB-High (49)	844 (20600)	23.84	23.14	22.00	18.86
		836.5 (20525)	23.91	23.20	22.02	18.77
		829 (20450)	23.85	23.11	21.98	18.81
	1RB-Middle (24)	844 (20600)	23.93	23.11	22.10	19.05
		836.5 (20525)	23.90	23.10	22.03	18.87
		829 (20450)	23.88	23.22	22.13	18.80
	1RB-Low (0)	844 (20600)	23.96	23.35	22.13	18.80
		836.5 (20525)	24.00	23.25	22.15	18.89
		829 (20450)	23.92	23.18	22.04	18.81
	25RB-High (25)	844 (20600)	22.92	21.95	20.95	18.78
		836.5 (20525)	22.91	21.90	20.89	19.02
		829 (20450)	22.99	22.01	21.00	19.05
	25RB-Middle (12)	844 (20600)	22.97	21.98	20.95	18.82
		836.5 (20525)	23.06	21.91	20.89	18.92
		829 (20450)	23.00	21.97	21.00	18.94
	25RB-Low (0)	844 (20600)	22.99	22.00	20.97	19.01
		836.5 (20525)	22.86	21.90	20.84	18.98
		829 (20450)	22.97	21.96	20.96	18.76
	50RB (0)	844 (20600)	22.99	21.97	20.95	18.90
		836.5 (20525)	22.91	21.93	20.86	19.03
		829 (20450)	22.95	21.98	20.94	18.75

LTE Band5 ANT0 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (20643)	21.98	21.99	22.21	18.57
		836.5 (20525)	21.89	22.24	22.00	19.06
		824.7 (20407)	21.98	22.24	21.94	18.99
	1RB-Middle (3)	848.3 (20643)	21.81	22.19	21.96	18.58
		836.5 (20525)	21.99	22.24	22.02	18.92
		824.7 (20407)	21.86	22.19	22.07	18.60
	1RB-Low (0)	848.3 (20643)	22.02	22.23	22.01	18.64
		836.5 (20525)	21.94	22.31	21.99	18.96
		824.7 (20407)	21.85	22.36	22.03	18.81
	3RB-High (3)	848.3 (20643)	22.00	22.10	21.05	18.74
		836.5 (20525)	22.00	21.99	21.79	18.68

		824.7 (20407)	21.91	22.04	21.13	18.82
	3RB-Middle (1)	848.3 (20643)	21.83	22.10	21.09	18.96
		836.5 (20525)	21.91	21.82	21.86	18.65
		824.7 (20407)	21.82	22.07	20.95	18.71
	3RB-Low (0)	848.3 (20643)	22.13	22.12	20.92	18.55
		836.5 (20525)	22.18	21.86	21.80	18.94
		824.7 (20407)	22.03	22.10	20.81	18.53
	6RB (0)	848.3 (20643)	21.95	21.92	20.94	18.78
		836.5 (20525)	22.02	22.01	21.97	18.99
		824.7 (20407)	22.00	21.88	21.02	18.97
3MHz	1RB-High (14)	847.5 (20635)	21.97	22.20	22.01	18.58
		836.5 (20525)	21.92	22.21	22.06	19.06
		825.5 (20415)	21.88	22.19	22.19	18.82
	1RB-Middle (7)	847.5 (20635)	21.84	22.15	22.08	18.56
		836.5 (20525)	21.97	22.01	21.96	18.92
		825.5 (20415)	21.91	22.27	22.13	18.72
	1RB-Low (0)	847.5 (20635)	22.02	22.20	22.17	18.82
		836.5 (20525)	22.03	22.47	22.00	18.93
		825.5 (20415)	22.05	22.30	22.17	18.73
	8RB-High (7)	847.5 (20635)	21.83	21.95	20.99	18.75
		836.5 (20525)	21.91	22.03	21.89	18.89
		825.5 (20415)	22.02	22.14	21.08	18.63
	8RB-Middle (4)	847.5 (20635)	22.07	22.02	21.09	18.80
		836.5 (20525)	21.80	21.83	21.81	18.65
		825.5 (20415)	21.91	22.05	21.06	18.66
	8RB-Low (0)	847.5 (20635)	22.06	21.94	20.75	18.76
		836.5 (20525)	22.13	22.00	21.89	19.01
		825.5 (20415)	22.10	22.04	20.88	18.77
	15RB (0)	847.5 (20635)	22.06	21.93	20.94	18.91
		836.5 (20525)	21.99	21.87	21.85	19.08
		825.5 (20415)	21.95	22.05	21.05	19.07
5MHz	1RB-High (24)	846.5 (20625)	21.94	22.17	22.08	18.76
		836.5 (20525)	21.86	22.15	22.20	18.97
		826.5 (20425)	21.72	22.19	22.06	18.90
	1RB-Middle (12)	846.5 (20625)	21.87	22.27	22.08	18.81
		836.5 (20525)	21.88	22.06	21.92	18.88
		826.5 (20425)	21.82	22.10	21.94	18.68
	1RB-Low (0)	846.5 (20625)	22.13	22.16	22.10	18.72
		836.5 (20525)	22.16	22.39	22.24	18.81
		826.5 (20425)	22.03	22.12	22.16	18.74
	12RB-High (13)	846.5 (20625)	21.95	22.02	20.88	18.84

		836.5 (20525)	21.92	21.90	21.93	18.66
		826.5 (20425)	21.93	21.90	20.86	18.80
	12RB-Middle (6)	846.5 (20625)	21.84	21.83	20.91	18.92
		836.5 (20525)	21.83	22.03	21.90	18.82
		826.5 (20425)	21.94	22.10	20.81	18.83
	12RB-Low (0)	846.5 (20625)	22.14	22.05	21.02	18.82
		836.5 (20525)	21.99	22.02	21.99	18.77
		826.5 (20425)	21.97	21.98	20.85	18.78
	25RB (0)	846.5 (20625)	21.89	21.94	20.93	18.74
		836.5 (20525)	21.73	21.87	21.94	18.81
		826.5 (20425)	21.90	21.84	20.97	18.90
10MHz	1RB-High (49)	844 (20600)	21.86	22.09	22.06	18.68
		836.5 (20525)	21.91	22.21	22.06	18.92
		829 (20450)	21.86	22.16	22.08	18.86
	1RB-Middle (24)	844 (20600)	21.94	22.25	22.05	18.66
		836.5 (20525)	21.88	22.10	22.07	18.90
		829 (20450)	21.94	22.22	22.03	18.66
	1RB-Low (0)	844 (20600)	22.00	22.19	22.11	18.71
		836.5 (20525)	22.05	22.32	22.13	18.84
		829 (20450)	21.91	22.27	22.03	18.69
	25RB-High (25)	844 (20600)	21.92	21.96	20.95	18.80
		836.5 (20525)	21.92	21.90	21.88	18.79
		829 (20450)	21.99	22.00	20.98	18.73
	25RB-Middle (12)	844 (20600)	21.92	21.95	20.94	18.84
		836.5 (20525)	21.88	21.91	21.89	18.69
		829 (20450)	21.97	21.96	20.94	18.81
	25RB-Low (0)	844 (20600)	22.01	21.98	20.90	18.68
		836.5 (20525)	22.03	21.91	21.86	18.89
		829 (20450)	21.96	21.95	20.96	18.67
	50RB (0)	844 (20600)	21.98	21.98	20.97	18.78
		836.5 (20525)	21.88	21.88	21.93	18.95
		829 (20450)	21.96	21.99	20.94	18.92

LTE Band5 ANT0 (Power Level E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (20643)	17.40	17.61	17.48	17.25
		836.5 (20525)	17.17	17.56	17.47	17.52
		824.7 (20407)	17.16	17.52	17.29	17.38
	1RB-Middle (3)	848.3 (20643)	17.41	17.64	17.62	17.36
		836.5 (20525)	17.27	17.79	17.36	17.41

		824.7 (20407)	17.23	17.84	17.67	17.17
	1RB-Low (0)	848.3 (20643)	17.23	17.65	17.65	17.29
		836.5 (20525)	17.34	17.98	17.67	17.23
		824.7 (20407)	17.34	17.72	17.62	17.30
	3RB-High (3)	848.3 (20643)	17.27	17.43	17.50	17.62
		836.5 (20525)	17.29	17.46	17.19	17.50
		824.7 (20407)	17.27	17.50	17.52	17.45
	3RB-Middle (1)	848.3 (20643)	17.43	17.41	17.31	17.39
		836.5 (20525)	17.38	17.30	17.23	17.32
		824.7 (20407)	17.36	17.38	17.38	17.24
	3RB-Low (0)	848.3 (20643)	17.34	17.31	17.44	17.62
		836.5 (20525)	17.47	17.25	17.28	17.28
		824.7 (20407)	17.30	17.27	17.37	17.35
	6RB (0)	848.3 (20643)	17.48	17.42	17.38	17.33
		836.5 (20525)	17.43	17.44	17.28	17.52
		824.7 (20407)	17.30	17.42	17.29	17.58
3MHz	1RB-High (14)	847.5 (20635)	17.17	17.74	17.61	17.27
		836.5 (20525)	17.26	17.64	17.40	17.45
		825.5 (20415)	17.35	17.46	17.54	17.47
	1RB-Middle (7)	847.5 (20635)	17.49	17.58	17.54	17.42
		836.5 (20525)	17.34	17.75	17.34	17.47
		825.5 (20415)	17.40	17.64	17.69	17.37
	1RB-Low (0)	847.5 (20635)	17.25	17.86	17.71	17.46
		836.5 (20525)	17.43	17.75	17.56	17.36
		825.5 (20415)	17.35	17.49	17.54	17.40
	8RB-High (7)	847.5 (20635)	17.34	17.48	17.39	17.44
		836.5 (20525)	17.40	17.22	17.20	17.60
		825.5 (20415)	17.44	17.51	17.27	17.26
	8RB-Middle (4)	847.5 (20635)	17.49	17.39	17.53	17.35
		836.5 (20525)	17.33	17.39	17.30	17.29
		825.5 (20415)	17.31	17.41	17.35	17.30
	8RB-Low (0)	847.5 (20635)	17.35	17.41	17.42	17.60
		836.5 (20525)	17.35	17.34	17.13	17.17
		825.5 (20415)	17.31	17.21	17.37	17.33
	15RB (0)	847.5 (20635)	17.30	17.25	17.47	17.49
		836.5 (20525)	17.39	17.28	17.32	17.45
		825.5 (20415)	17.30	17.31	17.46	17.49
5MHz	1RB-High (24)	846.5 (20625)	17.25	17.55	17.62	17.55
		836.5 (20525)	17.38	17.61	17.33	17.46
		826.5 (20425)	17.34	17.70	17.36	17.55
	1RB-Middle (12)	846.5 (20625)	17.37	17.60	17.53	17.53

		836.5 (20525)	17.27	17.71	17.38	17.30
		826.5 (20425)	17.37	17.86	17.61	17.25
	1RB-Low (0)	846.5 (20625)	17.43	17.83	17.62	17.49
		836.5 (20525)	17.32	17.71	17.60	17.40
		826.5 (20425)	17.39	17.69	17.69	17.25
	12RB-High (13)	846.5 (20625)	17.52	17.43	17.45	17.46
		836.5 (20525)	17.19	17.41	17.36	17.49
		826.5 (20425)	17.32	17.27	17.42	17.41
	12RB-Middle (6)	846.5 (20625)	17.25	17.39	17.38	17.22
		836.5 (20525)	17.32	17.34	17.20	17.29
		826.5 (20425)	17.37	17.26	17.34	17.28
	12RB-Low (0)	846.5 (20625)	17.33	17.46	17.43	17.42
		836.5 (20525)	17.42	17.23	17.14	17.32
		826.5 (20425)	17.31	17.40	17.37	17.18
	25RB (0)	846.5 (20625)	17.30	17.32	17.28	17.51
		836.5 (20525)	17.42	17.15	17.20	17.40
		826.5 (20425)	17.30	17.51	17.28	17.47
10MHz	1RB-High (49)	844 (20600)	17.27	17.64	17.50	17.40
		836.5 (20525)	17.32	17.67	17.42	17.53
		829 (20450)	17.28	17.61	17.42	17.46
	1RB-Middle (24)	844 (20600)	17.34	17.59	17.50	17.49
		836.5 (20525)	17.31	17.66	17.45	17.45
		829 (20450)	17.36	17.74	17.61	17.28
	1RB-Low (0)	844 (20600)	17.35	17.76	17.63	17.43
		836.5 (20525)	17.46	17.83	17.60	17.30
		829 (20450)	17.32	17.57	17.56	17.36
	25RB-High (25)	844 (20600)	17.38	17.39	17.43	17.49
		836.5 (20525)	17.32	17.31	17.30	17.52
		829 (20450)	17.40	17.38	17.39	17.30
	25RB-Middle (12)	844 (20600)	17.38	17.40	17.39	17.30
		836.5 (20525)	17.32	17.34	17.29	17.25
		829 (20450)	17.38	17.36	17.35	17.34
	25RB-Low (0)	844 (20600)	17.38	17.41	17.39	17.53
		836.5 (20525)	17.41	17.26	17.27	17.32
		829 (20450)	17.39	17.33	17.34	17.30
	50RB (0)	844 (20600)	17.41	17.40	17.39	17.48
		836.5 (20525)	17.33	17.30	17.31	17.55
		829 (20450)	17.39	17.37	17.37	17.53

LTE Band7 ANT4 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	23.35	22.39	21.46	18.80
		2535 (21100)	23.29	22.46	21.45	18.70
		2502.5 (20775)	23.43	22.40	21.44	18.69
	1RB-Middle (12)	2567.5 (21425)	23.22	22.49	21.31	18.89
		2535 (21100)	23.48	22.61	21.55	18.83
		2502.5 (20775)	23.18	22.40	21.43	18.61
	1RB-Low (0)	2567.5 (21425)	23.14	22.38	21.28	18.61
		2535 (21100)	23.48	22.60	21.60	18.71
		2502.5 (20775)	23.18	22.32	21.41	18.88
	12RB-High (13)	2567.5 (21425)	22.25	21.23	20.28	18.62
		2535 (21100)	22.33	21.32	20.36	18.69
		2502.5 (20775)	22.25	21.30	20.38	18.85
	12RB-Middle (6)	2567.5 (21425)	22.20	21.26	20.22	18.66
		2535 (21100)	22.47	21.43	20.48	18.77
		2502.5 (20775)	22.30	21.32	20.36	18.76
	12RB-Low (0)	2567.5 (21425)	22.18	21.24	20.27	18.74
		2535 (21100)	22.44	21.42	20.47	18.71
		2502.5 (20775)	22.24	21.29	20.30	18.88
	25RB (0)	2567.5 (21425)	22.24	21.22	20.24	18.85
		2535 (21100)	22.40	21.37	20.39	18.86
		2502.5 (20775)	22.34	21.33	20.31	18.85
10MHz	1RB-High (49)	2565 (21400)	23.51	22.63	21.36	18.78
		2535 (21100)	23.33	22.55	21.48	18.63
		2505 (20800)	23.64	22.59	21.65	18.75
	1RB-Middle (24)	2565 (21400)	23.29	22.25	21.30	18.88
		2535 (21100)	23.50	22.68	21.53	18.74
		2505 (20800)	23.32	22.50	21.49	18.78
	1RB-Low (0)	2565 (21400)	23.30	22.44	21.26	18.72
		2535 (21100)	23.42	22.77	21.63	18.87
		2505 (20800)	23.31	22.33	21.49	18.70
	25RB-High (25)	2565 (21400)	22.25	21.19	20.20	18.74
		2535 (21100)	22.39	21.36	20.34	18.87
		2505 (20800)	22.44	21.53	20.46	18.64
	25RB-Middle (12)	2565 (21400)	22.20	21.15	20.12	18.61
		2535 (21100)	22.38	21.38	20.38	18.66
		2505 (20800)	22.35	21.35	20.34	18.60
	25RB-Low (0)	2565 (21400)	22.27	21.19	20.23	18.60
		2535 (21100)	22.43	21.48	20.41	18.87

		2505 (20800)	22.30	21.31	20.30	18.62
	50RB (0)	2565 (21400)	22.26	21.26	20.25	18.75
		2535 (21100)	22.40	21.38	20.33	18.61
		2505 (20800)	22.40	21.39	20.34	18.85
15MHz	1RB-High (74)	2562.5 (21375)	23.32	22.32	21.35	18.75
		2535 (21100)	23.26	22.50	21.33	18.71
		2507.5 (20825)	23.48	22.62	21.40	18.71
	1RB-Middle (37)	2562.5 (21375)	23.26	22.32	21.33	18.78
		2535 (21100)	23.44	22.77	21.57	18.79
		2507.5 (20825)	23.56	22.52	21.52	18.65
	1RB-Low (0)	2562.5 (21375)	23.31	22.23	21.30	18.69
		2535 (21100)	23.45	22.63	21.68	18.64
		2507.5 (20825)	23.27	22.33	21.27	18.80
	36RB-High (38)	2562.5 (21375)	22.23	21.13	20.19	18.79
		2535 (21100)	22.34	21.28	20.33	18.63
		2507.5 (20825)	22.44	21.47	20.49	18.77
	36RB-Middle (19)	2562.5 (21375)	22.21	21.15	20.16	18.82
		2535 (21100)	22.37	21.38	20.40	18.83
		2507.5 (20825)	22.40	21.42	20.46	18.66
	36RB-Low (0)	2562.5 (21375)	22.16	21.17	20.18	18.79
		2535 (21100)	22.43	21.43	20.46	18.71
		2507.5 (20825)	22.29	21.27	20.34	18.80
	75RB (0)	2562.5 (21375)	22.24	21.23	20.20	18.60
		2535 (21100)	22.38	21.40	20.41	18.82
		2507.5 (20825)	22.33	21.40	20.38	18.71
20MHz	1RB-High (99)	2560 (21350)	23.31	22.43	21.38	18.64
		2535 (21100)	23.40	22.50	21.40	18.87
		2510 (20850)	23.42	22.70	21.70	18.86
	1RB-Middle (50)	2560 (21350)	23.24	22.42	21.28	18.90
		2535 (21100)	23.47	22.65	21.63	18.73
		2510 (20850)	23.46	22.45	21.57	18.87
	1RB-Low (0)	2560 (21350)	23.24	22.32	21.38	18.72
		2535 (21100)	23.44	22.75	21.68	18.83
		2510 (20850)	23.21	22.54	21.48	18.65
	50RB-High (50)	2560 (21350)	22.21	21.18	20.17	18.60
		2535 (21100)	22.39	21.38	20.31	18.83
		2510 (20850)	22.50	21.54	20.54	18.84
	50RB-Middle (25)	2560 (21350)	22.19	21.22	20.20	18.63
		2535 (21100)	22.57	21.40	20.40	18.89
		2510 (20850)	22.54	21.46	20.51	18.90
	50RB-Low (0)	2560 (21350)	22.24	21.27	20.24	18.63

		2535 (21100)	22.54	21.53	20.51	18.87
		2510 (20850)	22.32	21.34	20.35	18.64
	100RB (0)	2560 (21350)	22.21	21.16	20.20	18.65
		2535 (21100)	22.40	21.46	20.42	18.65
		2510 (20850)	22.42	21.40	20.44	18.73

LTE Band7 ANT4 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	15.47	15.58	15.77	15.11
		2535 (21100)	15.46	15.65	15.62	15.02
		2502.5 (20775)	15.82	15.78	15.85	15.22
	1RB-Middle (12)	2567.5 (21425)	15.43	15.69	15.40	15.04
		2535 (21100)	15.55	15.90	15.69	15.01
		2502.5 (20775)	15.75	15.90	15.66	15.28
	1RB-Low (0)	2567.5 (21425)	15.56	15.63	15.41	15.22
		2535 (21100)	15.74	15.92	15.74	15.31
		2502.5 (20775)	15.53	15.81	15.72	15.10
	12RB-High (13)	2567.5 (21425)	15.23	15.34	15.35	15.03
		2535 (21100)	15.47	15.51	15.52	14.94
		2502.5 (20775)	15.69	15.64	15.57	15.22
	12RB-Middle (6)	2567.5 (21425)	15.26	15.54	15.29	15.08
		2535 (21100)	15.53	15.67	15.70	15.18
		2502.5 (20775)	15.69	15.74	15.59	15.24
	12RB-Low (0)	2567.5 (21425)	15.37	15.32	15.30	14.95
		2535 (21100)	15.63	15.80	15.62	15.04
		2502.5 (20775)	15.48	15.71	15.66	15.02
	25RB (0)	2567.5 (21425)	15.46	15.30	15.55	15.35
		2535 (21100)	15.62	15.54	15.54	15.28
		2502.5 (20775)	15.52	15.51	15.57	14.89
10MHz	1RB-High (49)	2565 (21400)	15.38	15.74	15.67	15.13
		2535 (21100)	15.47	15.61	15.61	15.00
		2505 (20800)	15.65	15.97	15.96	15.10
	1RB-Middle (24)	2565 (21400)	15.29	15.73	15.69	15.23
		2535 (21100)	15.54	15.90	15.69	15.22
		2505 (20800)	15.61	15.71	15.89	15.21
	1RB-Low (0)	2565 (21400)	15.58	15.56	15.56	15.34
		2535 (21100)	15.67	15.94	15.88	15.25
		2505 (20800)	15.38	15.65	15.67	14.96
	25RB-High (25)	2565 (21400)	15.51	15.30	15.46	15.15
		2535 (21100)	15.68	15.56	15.60	14.98

		2505 (20800)	15.69	15.53	15.73	15.20
	25RB-Middle (12)	2565 (21400)	15.47	15.50	15.38	15.16
		2535 (21100)	15.55	15.53	15.63	15.26
		2505 (20800)	15.74	15.49	15.56	15.20
	25RB-Low (0)	2565 (21400)	15.40	15.47	15.57	15.03
		2535 (21100)	15.71	15.76	15.74	15.00
		2505 (20800)	15.51	15.64	15.42	15.17
	50RB (0)	2565 (21400)	15.38	15.58	15.35	15.36
		2535 (21100)	15.56	15.57	15.42	15.23
		2505 (20800)	15.76	15.61	15.70	15.06
15MHz	1RB-High (74)	2562.5 (21375)	15.38	15.73	15.74	14.97
		2535 (21100)	15.55	15.78	15.43	15.10
		2507.5 (20825)	15.54	15.77	15.79	15.08
	1RB-Middle (37)	2562.5 (21375)	15.26	15.62	15.48	15.12
		2535 (21100)	15.74	15.90	15.73	15.13
		2507.5 (20825)	15.62	15.96	15.84	15.03
	1RB-Low (0)	2562.5 (21375)	15.62	15.73	15.59	15.15
		2535 (21100)	15.66	15.90	15.85	15.18
		2507.5 (20825)	15.56	15.68	15.64	14.98
	36RB-High (38)	2562.5 (21375)	15.44	15.40	15.40	15.02
		2535 (21100)	15.67	15.49	15.39	15.07
		2507.5 (20825)	15.63	15.54	15.65	15.13
	36RB-Middle (19)	2562.5 (21375)	15.35	15.44	15.26	15.32
		2535 (21100)	15.54	15.40	15.63	15.26
		2507.5 (20825)	15.52	15.66	15.63	15.20
	36RB-Low (0)	2562.5 (21375)	15.46	15.57	15.31	15.03
		2535 (21100)	15.72	15.68	15.50	15.21
		2507.5 (20825)	15.70	15.63	15.59	14.96
	75RB (0)	2562.5 (21375)	15.52	15.58	15.50	15.16
		2535 (21100)	15.57	15.37	15.40	15.25
		2507.5 (20825)	15.54	15.75	15.59	15.00
20MHz	1RB-High (99)	2560 (21350)	15.46	15.73	15.70	15.11
		2535 (21100)	15.48	15.65	15.56	14.97
		2510 (20850)	15.67	15.86	15.83	15.07
	1RB-Middle (50)	2560 (21350)	15.35	15.62	15.54	15.15
		2535 (21100)	15.68	15.81	15.66	15.13
		2510 (20850)	15.62	15.86	15.80	15.14
	1RB-Low (0)	2560 (21350)	15.54	15.68	15.54	15.25
		2535 (21100)	15.69	15.86	15.78	15.16
		2510 (20850)	15.45	15.76	15.66	14.97
	50RB-High (50)	2560 (21350)	15.38	15.40	15.36	15.08

		2535 (21100)	15.54	15.53	15.53	14.98
		2510 (20850)	15.60	15.62	15.65	15.13
	50RB-Middle (25)	2560 (21350)	15.40	15.39	15.39	15.19
		2535 (21100)	15.57	15.54	15.57	15.11
		2510 (20850)	15.62	15.64	15.61	15.24
	50RB-Low (0)	2560 (21350)	15.43	15.42	15.43	15.08
		2535 (21100)	15.64	15.67	15.62	15.13
		2510 (20850)	15.60	15.59	15.55	15.10
	100RB (0)	2560 (21350)	15.48	15.44	15.40	15.23
		2535 (21100)	15.57	15.52	15.54	15.22
		2510 (20850)	15.63	15.60	15.59	14.98

LTE Band7 ANT4 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	16.56	16.71	16.58	15.65
		2535 (21100)	16.29	16.61	16.55	15.87
		2502.5 (20775)	16.77	16.80	16.73	15.82
	1RB-Middle (12)	2567.5 (21425)	16.24	16.70	16.28	15.84
		2535 (21100)	16.45	16.77	16.59	15.91
		2502.5 (20775)	16.64	16.75	16.61	16.02
	1RB-Low (0)	2567.5 (21425)	16.32	16.44	16.28	15.91
		2535 (21100)	16.76	16.76	16.92	15.80
		2502.5 (20775)	16.51	16.62	16.57	15.60
	12RB-High (13)	2567.5 (21425)	16.16	16.18	16.25	15.81
		2535 (21100)	16.29	16.35	16.40	15.91
		2502.5 (20775)	16.61	16.58	16.74	16.06
	12RB-Middle (6)	2567.5 (21425)	16.44	16.29	16.20	15.86
		2535 (21100)	16.56	16.33	16.45	15.80
		2502.5 (20775)	16.74	16.55	16.73	15.77
	12RB-Low (0)	2567.5 (21425)	16.33	16.36	16.22	15.91
		2535 (21100)	16.61	16.53	16.60	16.01
		2502.5 (20775)	16.50	16.48	16.47	15.74
	25RB (0)	2567.5 (21425)	16.57	16.28	16.31	15.90
		2535 (21100)	16.51	16.37	16.54	15.92
		2502.5 (20775)	16.71	16.63	16.58	15.74
10MHz	1RB-High (49)	2565 (21400)	16.33	16.72	16.67	15.87
		2535 (21100)	16.56	16.59	16.48	15.94
		2505 (20800)	16.67	16.94	16.84	16.03
	1RB-Middle (24)	2565 (21400)	16.34	16.72	16.50	15.93
		2535 (21100)	16.69	16.67	16.54	15.95

		2505 (20800)	16.74	16.80	16.75	15.86
	1RB-Low (0)	2565 (21400)	16.25	16.42	16.33	15.98
		2535 (21100)	16.61	16.68	16.73	15.75
		2505 (20800)	16.42	16.54	16.73	15.71
	25RB-High (25)	2565 (21400)	16.26	16.39	16.26	15.81
		2535 (21100)	16.49	16.32	16.31	15.81
		2505 (20800)	16.76	16.70	16.65	16.09
	25RB-Middle (12)	2565 (21400)	16.35	16.35	16.30	15.88
		2535 (21100)	16.59	16.51	16.35	15.89
		2505 (20800)	16.54	16.55	16.49	15.82
	25RB-Low (0)	2565 (21400)	16.28	16.35	16.29	15.91
		2535 (21100)	16.54	16.55	16.61	16.11
		2505 (20800)	16.46	16.44	16.49	15.83
	50RB (0)	2565 (21400)	16.55	16.51	16.22	15.99
		2535 (21100)	16.54	16.44	16.36	15.95
		2505 (20800)	16.58	16.48	16.61	15.90
15MHz	1RB-High (74)	2562.5 (21375)	16.40	16.72	16.71	15.79
		2535 (21100)	16.30	16.61	16.66	15.79
		2507.5 (20825)	16.58	17.00	16.81	15.94
	1RB-Middle (37)	2562.5 (21375)	16.35	16.53	16.53	15.96
		2535 (21100)	16.61	16.71	16.78	15.72
		2507.5 (20825)	16.76	16.72	16.63	15.88
	1RB-Low (0)	2562.5 (21375)	16.34	16.48	16.48	15.89
		2535 (21100)	16.59	16.88	16.94	15.81
		2507.5 (20825)	16.47	16.67	16.78	15.79
	36RB-High (38)	2562.5 (21375)	16.28	16.33	16.48	16.05
		2535 (21100)	16.58	16.39	16.49	15.81
		2507.5 (20825)	16.73	16.67	16.81	16.08
	36RB-Middle (19)	2562.5 (21375)	16.30	16.23	16.21	15.76
		2535 (21100)	16.40	16.42	16.56	15.89
		2507.5 (20825)	16.54	16.64	16.65	15.81
	36RB-Low (0)	2562.5 (21375)	16.49	16.43	16.34	16.01
		2535 (21100)	16.68	16.73	16.52	16.11
		2507.5 (20825)	16.47	16.49	16.60	15.79
	75RB (0)	2562.5 (21375)	16.34	16.21	16.15	15.78
		2535 (21100)	16.38	16.36	16.62	16.13
		2507.5 (20825)	16.52	16.63	16.78	15.93
20MHz	1RB-High (99)	2560 (21350)	16.44	16.61	16.59	15.77
		2535 (21100)	16.41	16.59	16.52	15.94
		2510 (20850)	16.65	16.85	16.77	15.94
	1RB-Middle (50)	2560 (21350)	16.37	16.62	16.42	15.86

		2535 (21100)	16.57	16.76	16.65	15.82
		2510 (20850)	16.73	16.76	16.68	15.98
	1RB-Low (0)	2560 (21350)	16.37	16.52	16.38	15.96
		2535 (21100)	16.64	16.78	16.81	15.88
		2510 (20850)	16.45	16.67	16.63	15.75
	50RB-High (50)	2560 (21350)	16.30	16.33	16.38	15.93
		2535 (21100)	16.44	16.44	16.40	15.77
		2510 (20850)	16.67	16.65	16.67	15.94
	50RB-Middle (25)	2560 (21350)	16.38	16.38	16.35	15.83
		2535 (21100)	16.50	16.47	16.49	15.90
		2510 (20850)	16.66	16.65	16.62	15.79
	50RB-Low (0)	2560 (21350)	16.40	16.37	16.35	15.90
		2535 (21100)	16.63	16.64	16.59	16.05
		2510 (20850)	16.57	16.54	16.49	15.88
	100RB (0)	2560 (21350)	16.43	16.36	16.30	15.84
		2535 (21100)	16.53	16.48	16.50	16.01
		2510 (20850)	16.60	16.56	16.66	15.82

LTE Band7 ANT4 (Power Level D1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	12.43	12.76	12.70	12.23
		2535 (21100)	12.32	12.53	12.77	12.02
		2502.5 (20775)	12.44	13.15	12.92	12.12
	1RB-Middle (12)	2567.5 (21425)	12.39	12.48	12.63	12.26
		2535 (21100)	12.67	12.72	12.90	12.11
		2502.5 (20775)	12.75	12.91	12.82	12.16
	1RB-Low (0)	2567.5 (21425)	12.67	12.72	12.65	11.92
		2535 (21100)	12.68	12.90	12.72	11.92
		2502.5 (20775)	12.75	12.79	12.49	12.05
	12RB-High (13)	2567.5 (21425)	12.37	12.35	12.50	12.08
		2535 (21100)	12.48	12.58	12.55	12.26
		2502.5 (20775)	12.77	12.77	12.46	12.02
	12RB-Middle (6)	2567.5 (21425)	12.52	12.42	12.46	11.94
		2535 (21100)	12.55	12.59	12.73	12.12
		2502.5 (20775)	12.70	12.69	12.75	12.06
	12RB-Low (0)	2567.5 (21425)	12.39	12.55	12.50	12.01
		2535 (21100)	12.57	12.55	12.74	12.10
		2502.5 (20775)	12.67	12.62	12.75	12.18
	25RB (0)	2567.5 (21425)	12.58	12.31	12.45	11.90
		2535 (21100)	12.66	12.67	12.55	12.26

		2502.5 (20775)	12.73	12.66	12.67	12.13
10MHz	1RB-High (49)	2565 (21400)	12.44	12.75	12.56	12.29
		2535 (21100)	12.49	12.57	12.82	12.06
		2505 (20800)	12.67	13.08	12.94	12.07
	1RB-Middle (24)	2565 (21400)	12.26	12.59	12.46	12.17
		2535 (21100)	12.51	12.89	12.84	12.23
		2505 (20800)	12.51	12.95	12.75	12.23
	1RB-Low (0)	2565 (21400)	12.59	12.57	12.69	12.11
		2535 (21100)	12.74	13.02	12.72	11.99
		2505 (20800)	12.63	12.81	12.61	12.09
	25RB-High (25)	2565 (21400)	12.37	12.33	12.43	12.21
		2535 (21100)	12.73	12.52	12.52	12.38
		2505 (20800)	12.53	12.65	12.56	11.94
	25RB-Middle (12)	2565 (21400)	12.30	12.29	12.53	11.91
		2535 (21100)	12.51	12.40	12.76	12.00
		2505 (20800)	12.52	12.57	12.78	12.17
	25RB-Low (0)	2565 (21400)	12.36	12.65	12.39	12.12
		2535 (21100)	12.63	12.53	12.79	12.21
		2505 (20800)	12.57	12.44	12.49	12.13
	50RB (0)	2565 (21400)	12.65	12.56	12.55	11.95
		2535 (21100)	12.60	12.67	12.52	12.06
		2505 (20800)	12.59	12.68	12.75	12.18
15MHz	1RB-High (74)	2562.5 (21375)	12.56	12.91	12.61	12.16
		2535 (21100)	12.37	12.75	12.73	12.29
		2507.5 (20825)	12.65	12.91	12.76	11.98
	1RB-Middle (37)	2562.5 (21375)	12.52	12.75	12.58	12.05
		2535 (21100)	12.56	12.65	12.92	12.26
		2507.5 (20825)	12.66	12.92	12.78	12.28
	1RB-Low (0)	2562.5 (21375)	12.42	12.75	12.48	11.93
		2535 (21100)	12.73	12.74	12.84	11.93
		2507.5 (20825)	12.49	12.76	12.55	12.04
	36RB-High (38)	2562.5 (21375)	12.51	12.49	12.26	12.03
		2535 (21100)	12.53	12.52	12.61	12.27
		2507.5 (20825)	12.50	12.74	12.70	12.08
	36RB-Middle (19)	2562.5 (21375)	12.55	12.50	12.46	12.18
		2535 (21100)	12.53	12.44	12.59	12.11
		2507.5 (20825)	12.70	12.50	12.81	12.06
	36RB-Low (0)	2562.5 (21375)	12.58	12.47	12.34	12.06
		2535 (21100)	12.62	12.76	12.82	12.31
		2507.5 (20825)	12.72	12.67	12.53	12.36
	75RB (0)	2562.5 (21375)	12.42	12.57	12.32	11.91

		2535 (21100)	12.73	12.73	12.64	12.26
		2507.5 (20825)	12.51	12.56	12.78	11.90
20MHz	1RB-High (99)	2560 (21350)	12.53	12.80	12.67	12.24
		2535 (21100)	12.45	12.64	12.67	12.15
		2510 (20850)	12.56	13.05	12.89	12.06
	1RB-Middle (50)	2560 (21350)	12.38	12.61	12.57	12.20
		2535 (21100)	12.62	12.79	12.79	12.16
		2510 (20850)	12.60	12.96	12.80	12.25
	1RB-Low (0)	2560 (21350)	12.56	12.69	12.62	12.04
		2535 (21100)	12.68	12.89	12.81	12.02
		2510 (20850)	12.62	12.78	12.60	11.98
	50RB-High (50)	2560 (21350)	12.37	12.38	12.38	12.16
		2535 (21100)	12.58	12.56	12.51	12.24
		2510 (20850)	12.64	12.68	12.60	11.95
	50RB-Middle (25)	2560 (21350)	12.45	12.43	12.49	12.06
		2535 (21100)	12.60	12.52	12.63	12.06
		2510 (20850)	12.63	12.64	12.68	12.10
	50RB-Low (0)	2560 (21350)	12.50	12.51	12.49	12.05
		2535 (21100)	12.65	12.66	12.69	12.22
		2510 (20850)	12.58	12.57	12.61	12.21
	100RB (0)	2560 (21350)	12.52	12.45	12.46	12.04
		2535 (21100)	12.60	12.62	12.53	12.14
		2510 (20850)	12.65	12.61	12.64	12.03

LTE Band7 ANT4 (Power Level E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	13.37	13.67	13.51	13.17
		2535 (21100)	13.52	13.78	13.49	12.87
		2502.5 (20775)	13.56	14.00	13.95	13.31
	1RB-Middle (12)	2567.5 (21425)	13.28	13.56	13.44	12.98
		2535 (21100)	13.72	13.85	13.69	13.19
		2502.5 (20775)	13.75	13.77	13.84	13.16
	1RB-Low (0)	2567.5 (21425)	13.58	13.53	13.54	13.22
		2535 (21100)	13.69	13.85	13.83	13.13
		2502.5 (20775)	13.70	13.82	13.74	13.12
	12RB-High (13)	2567.5 (21425)	13.51	13.50	13.49	13.11
		2535 (21100)	13.63	13.46	13.52	13.03
		2502.5 (20775)	13.47	13.73	13.57	13.03
	12RB-Middle (6)	2567.5 (21425)	13.34	13.47	13.55	13.19
		2535 (21100)	13.71	13.62	13.57	13.11

		2502.5 (20775)	13.54	13.64	13.61	13.14
	12RB-Low (0)	2567.5 (21425)	13.55	13.52	13.30	13.20
		2535 (21100)	13.66	13.80	13.74	12.89
		2502.5 (20775)	13.53	13.61	13.50	13.01
	25RB (0)	2567.5 (21425)	13.60	13.50	13.45	12.99
		2535 (21100)	13.65	13.45	13.43	13.35
		2502.5 (20775)	13.76	13.53	13.57	13.34
10MHz	1RB-High (49)	2565 (21400)	13.43	13.45	13.69	13.23
		2535 (21100)	13.46	13.76	13.40	12.95
		2505 (20800)	13.59	13.81	14.01	13.38
	1RB-Middle (24)	2565 (21400)	13.36	13.69	13.44	12.97
		2535 (21100)	13.65	13.79	13.59	13.11
		2505 (20800)	13.57	13.86	13.72	13.25
	1RB-Low (0)	2565 (21400)	13.32	13.72	13.52	13.36
		2535 (21100)	13.62	13.85	13.92	13.19
		2505 (20800)	13.63	13.80	13.65	12.93
	25RB-High (25)	2565 (21400)	13.51	13.40	13.42	13.21
		2535 (21100)	13.39	13.53	13.44	12.93
		2505 (20800)	13.74	13.68	13.65	13.18
	25RB-Middle (12)	2565 (21400)	13.30	13.49	13.49	13.17
		2535 (21100)	13.72	13.65	13.43	13.07
		2505 (20800)	13.47	13.60	13.65	13.27
	25RB-Low (0)	2565 (21400)	13.32	13.52	13.57	12.90
		2535 (21100)	13.70	13.59	13.71	13.03
		2505 (20800)	13.53	13.63	13.53	13.08
	50RB (0)	2565 (21400)	13.40	13.51	13.25	13.16
		2535 (21100)	13.71	13.41	13.48	13.19
		2505 (20800)	13.53	13.58	13.47	13.18
15MHz	1RB-High (74)	2562.5 (21375)	13.58	13.44	13.69	13.28
		2535 (21100)	13.42	13.62	13.62	12.89
		2507.5 (20825)	13.62	13.99	14.06	13.22
	1RB-Middle (37)	2562.5 (21375)	13.30	13.67	13.52	12.88
		2535 (21100)	13.49	13.77	13.75	13.32
		2507.5 (20825)	13.57	13.92	13.72	13.24
	1RB-Low (0)	2562.5 (21375)	13.34	13.79	13.73	13.38
		2535 (21100)	13.65	13.80	13.88	13.22
		2507.5 (20825)	13.46	13.70	13.64	13.18
	36RB-High (38)	2562.5 (21375)	13.21	13.41	13.23	13.09
		2535 (21100)	13.49	13.54	13.59	12.91
		2507.5 (20825)	13.74	13.70	13.52	13.28
	36RB-Middle (19)	2562.5 (21375)	13.34	13.40	13.48	13.16

		2535 (21100)	13.53	13.45	13.67	12.99
		2507.5 (20825)	13.69	13.51	13.72	13.01
	36RB-Low (0)	2562.5 (21375)	13.33	13.47	13.28	13.00
		2535 (21100)	13.80	13.75	13.67	12.90
		2507.5 (20825)	13.65	13.53	13.63	12.97
	75RB (0)	2562.5 (21375)	13.43	13.57	13.37	13.16
		2535 (21100)	13.58	13.54	13.65	13.12
		2507.5 (20825)	13.53	13.48	13.46	13.27
20MHz	1RB-High (99)	2560 (21350)	13.50	13.55	13.65	13.16
		2535 (21100)	13.43	13.73	13.51	13.00
		2510 (20850)	13.71	13.96	13.93	13.24
	1RB-Middle (50)	2560 (21350)	13.37	13.68	13.46	12.98
		2535 (21100)	13.59	13.73	13.67	13.20
		2510 (20850)	13.62	13.80	13.82	13.14
	1RB-Low (0)	2560 (21350)	13.43	13.64	13.64	13.24
		2535 (21100)	13.66	13.82	13.81	13.23
		2510 (20850)	13.56	13.71	13.79	13.07
	50RB-High (50)	2560 (21350)	13.36	13.35	13.37	13.18
		2535 (21100)	13.51	13.53	13.50	13.05
		2510 (20850)	13.62	13.66	13.63	13.13
	50RB-Middle (25)	2560 (21350)	13.40	13.40	13.42	13.09
		2535 (21100)	13.57	13.54	13.52	13.10
		2510 (20850)	13.61	13.59	13.60	13.12
	50RB-Low (0)	2560 (21350)	13.41	13.49	13.43	13.05
		2535 (21100)	13.66	13.65	13.60	13.03
		2510 (20850)	13.68	13.56	13.58	12.95
	100RB (0)	2560 (21350)	13.51	13.47	13.40	13.06
		2535 (21100)	13.57	13.56	13.51	13.21
		2510 (20850)	13.61	13.57	13.59	13.24

LTE Band12 ANT0 (Power Level A1/B1/C1/D1/E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	715.3 (23173)	23.69	22.88	21.84	19.62
		707.5 (23095)	23.76	22.96	21.96	19.70
		699.7 (23017)	23.67	22.99	21.82	19.55
	1RB-Middle (3)	715.3 (23173)	23.65	22.83	21.80	19.60
		707.5 (23095)	23.74	22.88	21.83	19.51
		699.7 (23017)	23.60	22.79	21.85	19.63
	1RB-Low (0)	715.3 (23173)	23.79	22.80	21.78	19.51
		707.5 (23095)	23.72	22.89	21.92	19.78

		699.7 (23017)	23.68	22.98	21.87	19.70
	3RB-High (3)	715.3 (23173)	23.58	22.62	21.67	19.73
		707.5 (23095)	23.85	22.67	21.78	19.60
		699.7 (23017)	23.80	22.69	21.86	19.58
	3RB-Middle (1)	715.3 (23173)	23.69	22.56	21.87	19.74
		707.5 (23095)	23.65	22.63	21.72	19.63
		699.7 (23017)	23.66	22.72	21.79	19.57
	3RB-Low (0)	715.3 (23173)	23.75	22.58	21.74	19.54
		707.5 (23095)	23.72	22.69	21.78	19.51
		699.7 (23017)	23.76	22.63	21.80	19.59
	6RB (0)	715.3 (23173)	22.68	21.68	20.56	19.51
		707.5 (23095)	22.72	21.78	20.72	19.61
		699.7 (23017)	22.70	21.77	20.72	19.74
3MHz	1RB-High (14)	714.5 (23165)	23.75	22.86	21.91	19.58
		707.5 (23095)	23.68	22.91	21.90	19.66
		700.5 (23025)	23.67	22.91	21.80	19.66
	1RB-Middle (7)	714.5 (23165)	23.64	22.82	21.84	19.64
		707.5 (23095)	23.77	23.12	21.79	19.56
		700.5 (23025)	23.61	22.96	21.90	19.50
	1RB-Low (0)	714.5 (23165)	23.73	22.91	21.89	19.57
		707.5 (23095)	23.72	22.85	21.94	19.72
		700.5 (23025)	23.79	23.02	21.96	19.48
	8RB-High (7)	714.5 (23165)	22.62	21.70	20.65	19.60
		707.5 (23095)	22.75	21.78	20.80	19.51
		700.5 (23025)	22.71	21.72	20.69	19.54
	8RB-Middle (4)	714.5 (23165)	22.64	21.70	20.70	19.74
		707.5 (23095)	22.75	21.82	20.79	19.61
		700.5 (23025)	22.67	21.81	20.74	19.48
	8RB-Low (0)	714.5 (23165)	22.68	21.70	20.76	19.68
		707.5 (23095)	22.75	21.82	20.79	19.72
		700.5 (23025)	22.78	21.84	20.78	19.53
	15RB (0)	714.5 (23165)	22.67	21.69	20.67	19.65
		707.5 (23095)	22.75	21.73	20.79	19.64
		700.5 (23025)	22.72	21.71	20.72	19.73
5MHz	1RB-High (24)	713.5 (23155)	23.59	22.98	21.84	19.51
		707.5 (23095)	23.84	22.91	21.96	19.77
		701.5 (23035)	23.82	23.04	21.89	19.48
	1RB-Middle (12)	713.5 (23155)	23.74	22.86	21.99	19.76
		707.5 (23095)	23.75	23.17	21.91	19.74
		701.5 (23035)	23.78	23.05	21.91	19.61
	1RB-Low (0)	713.5 (23155)	23.82	23.07	21.88	19.78

		707.5 (23095)	23.80	23.12	21.86	19.60
		701.5 (23035)	23.80	22.99	21.95	19.64
	12RB-High (13)	713.5 (23155)	22.66	21.69	20.74	19.69
		707.5 (23095)	22.78	21.76	20.81	19.74
		701.5 (23035)	22.73	21.77	20.82	19.69
	12RB-Middle (6)	713.5 (23155)	22.69	21.71	20.77	19.58
		707.5 (23095)	22.76	21.74	20.80	19.73
		701.5 (23035)	22.73	21.77	20.80	19.62
	12RB-Low (0)	713.5 (23155)	22.79	21.76	20.80	19.49
		707.5 (23095)	22.78	21.79	20.80	19.59
		701.5 (23035)	22.85	21.78	20.84	19.68
	25RB (0)	713.5 (23155)	22.73	21.73	20.69	19.50
		707.5 (23095)	22.76	21.72	20.79	19.60
		701.5 (23035)	22.81	21.72	20.77	19.75
10MHz	1RB-High (49)	711 (23130)	23.82	22.95	21.85	19.76
		707.5 (23095)	23.78	23.05	21.82	19.52
		704 (23060)	23.85	23.10	21.93	19.62
	1RB-Middle (24)	711 (23130)	23.78	23.05	21.96	19.73
		707.5 (23095)	23.89	23.16	21.95	19.50
		704 (23060)	23.73	23.01	21.92	19.54
	1RB-Low (0)	711 (23130)	23.75	22.99	21.88	19.52
		707.5 (23095)	23.81	23.05	21.93	19.78
		704 (23060)	23.77	23.09	21.89	19.72
	25RB-High (25)	711 (23130)	22.65	21.66	20.69	19.48
		707.5 (23095)	22.76	21.71	20.75	19.48
		704 (23060)	22.72	21.71	20.73	19.56
	25RB-Middle (12)	711 (23130)	22.76	21.75	20.73	19.72
		707.5 (23095)	22.78	21.72	20.75	19.61
		704 (23060)	22.73	21.73	20.75	19.55
	25RB-Low (0)	711 (23130)	22.76	21.73	20.76	19.60
		707.5 (23095)	22.77	21.74	20.74	19.59
		704 (23060)	22.75	21.72	20.76	19.76
	50RB (0)	711 (23130)	22.73	21.73	20.69	19.48
		707.5 (23095)	22.74	21.77	20.74	19.62
		704 (23060)	22.77	21.77	20.75	19.59

LTE Band26 ANT0 (Power Level A1/B1/C1/D1/E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (27033)	24.30	23.33	22.43	20.37
		831.5 (26865)	24.26	23.54	22.52	20.10
		814.7 (26697)	24.27	23.50	22.46	20.18
	1RB-Middle (3)	848.3 (27033)	24.26	23.25	22.33	20.34
		831.5 (26865)	24.37	23.57	22.61	20.08
		814.7 (26697)	24.35	23.52	22.43	20.20
	1RB-Low (0)	848.3 (27033)	24.18	23.35	22.38	20.12
		831.5 (26865)	24.41	23.72	22.63	20.17
		814.7 (26697)	24.46	23.50	22.50	20.13
	3RB-High (3)	848.3 (27033)	24.21	23.37	22.28	20.29
		831.5 (26865)	24.43	23.30	22.44	20.23
		814.7 (26697)	24.30	23.24	22.35	20.15
	3RB-Middle (1)	848.3 (27033)	24.31	23.21	22.31	20.09
		831.5 (26865)	24.45	23.36	22.39	20.10
		814.7 (26697)	24.25	23.35	22.36	20.31
	3RB-Low (0)	848.3 (27033)	24.36	23.42	22.34	20.15
		831.5 (26865)	24.39	23.31	22.46	20.07
		814.7 (26697)	24.41	23.24	22.37	20.30
	6RB (0)	848.3 (27033)	23.28	22.30	21.22	20.35
		831.5 (26865)	23.36	22.44	21.28	20.30
		814.7 (26697)	23.34	22.33	21.25	20.36
3MHz	1RB-High (14)	847.5 (27025)	24.25	23.27	22.31	20.29
		831.5 (26865)	24.40	23.52	22.43	20.31
		815.5 (26705)	24.34	23.29	22.32	20.24
	1RB-Middle (7)	847.5 (27025)	24.27	23.31	22.41	20.15
		831.5 (26865)	24.50	23.62	22.50	20.14
		815.5 (26705)	24.33	23.34	22.32	20.13
	1RB-Low (0)	847.5 (27025)	24.32	23.41	22.39	20.12
		831.5 (26865)	24.36	23.64	22.56	20.14
		815.5 (26705)	24.33	23.37	22.33	20.11
	8RB-High (7)	847.5 (27025)	23.32	22.33	21.34	20.30
		831.5 (26865)	23.38	22.37	21.41	20.30
		815.5 (26705)	23.33	22.42	21.36	20.14
	8RB-Middle (4)	847.5 (27025)	23.26	22.22	21.25	20.21
		831.5 (26865)	23.44	22.39	21.42	20.16
		815.5 (26705)	23.34	22.40	21.43	20.23
	8RB-Low (0)	847.5 (27025)	23.27	22.33	21.30	20.07
		831.5 (26865)	23.46	22.44	21.45	20.27

		815.5 (26705)	23.40	22.45	21.43	20.19
	15RB (0)	847.5 (27025)	23.26	22.26	21.27	20.30
		831.5 (26865)	23.37	22.34	21.34	20.28
		815.5 (26705)	23.34	22.37	21.31	20.37
5MHz	1RB-High (24)	846.5 (27015)	24.40	23.43	22.56	20.19
		831.5 (26865)	24.34	23.50	22.39	20.22
		816.5 (26715)	24.29	23.54	22.46	20.19
	1RB-Middle (12)	846.5 (27015)	24.29	23.61	22.48	20.30
		831.5 (26865)	24.49	23.77	22.62	20.26
		816.5 (26715)	24.35	23.47	22.54	20.30
	1RB-Low (0)	846.5 (27015)	24.26	23.53	22.47	20.13
		831.5 (26865)	24.47	23.64	22.62	20.32
		816.5 (26715)	24.35	23.62	22.40	20.14
	12RB-High (13)	846.5 (27015)	23.28	22.39	21.34	20.17
		831.5 (26865)	23.42	22.46	21.41	20.30
		816.5 (26715)	23.32	22.41	21.37	20.27
	12RB-Middle (6)	846.5 (27015)	23.33	22.34	21.33	20.24
		831.5 (26865)	23.42	22.46	21.45	20.23
		816.5 (26715)	23.41	22.40	21.37	20.13
	12RB-Low (0)	846.5 (27015)	23.29	22.31	21.41	20.31
		831.5 (26865)	23.47	22.54	21.48	20.10
		816.5 (26715)	23.36	22.35	21.40	20.15
	25RB (0)	846.5 (27015)	23.34	22.36	21.28	20.27
		831.5 (26865)	23.50	22.43	21.41	20.12
		816.5 (26715)	23.40	22.38	21.36	20.09
10MHz	1RB-High (49)	844 (26990)	24.45	23.49	22.49	20.33
		831.5 (26865)	24.30	23.56	22.43	20.30
		820 (26750)	24.32	23.58	22.52	20.18
	1RB-Middle (24)	844 (26990)	24.28	23.52	22.54	20.16
		831.5 (26865)	24.43	23.62	22.54	20.33
		820 (26750)	24.52	23.60	22.50	20.32
	1RB-Low (0)	844 (26990)	24.39	23.70	22.54	20.23
		831.5 (26865)	24.44	23.72	22.57	20.36
		820 (26750)	24.35	23.58	22.41	20.20
	25RB-High (25)	844 (26990)	23.32	22.36	21.34	20.22
		831.5 (26865)	23.39	22.44	21.38	20.28
		820 (26750)	23.42	22.44	21.42	20.14
	25RB-Middle (12)	844 (26990)	23.33	22.37	21.30	20.30
		831.5 (26865)	23.45	22.41	21.39	20.25
		820 (26750)	23.42	22.37	21.38	20.11
	25RB-Low (0)	844 (26990)	23.43	22.51	21.41	20.32

		831.5 (26865)	23.51	22.52	21.46	20.19
		820 (26750)	23.36	22.32	21.36	20.22
	50RB (0)	844 (26990)	23.35	22.37	21.35	20.15
		831.5 (26865)	23.48	22.45	21.41	20.32
		820 (26750)	23.37	22.36	21.33	20.16
15MHz	1RB-High (74)	841.5 (26965)	24.38	23.46	22.36	20.25
		831.5 (26865)	24.27	23.41	22.46	20.12
		822.5 (26775)	24.45	23.65	22.66	20.36
	1RB-Middle (37)	841.5 (26965)	24.39	23.56	22.53	20.35
		831.5 (26865)	24.49	23.79	22.60	20.36
		822.5 (26775)	24.48	23.59	22.55	20.32
	1RB-Low (0)	841.5 (26965)	24.37	23.54	22.48	20.13
		831.5 (26865)	24.40	23.63	22.54	20.23
		822.5 (26775)	24.38	23.71	22.51	20.20
	36RB-High (38)	841.5 (26965)	23.31	22.28	21.30	20.24
		831.5 (26865)	23.32	22.35	21.37	20.29
		822.5 (26775)	23.35	22.29	21.30	20.15
	36RB-Middle (19)	841.5 (26965)	23.33	22.35	21.36	20.27
		831.5 (26865)	23.48	22.40	21.41	20.17
		822.5 (26775)	23.37	22.38	21.37	20.37
	36RB-Low (0)	841.5 (26965)	23.32	22.32	21.38	20.23
		831.5 (26865)	23.46	22.39	21.44	20.22
		822.5 (26775)	23.33	22.35	21.35	20.35
	75RB (0)	841.5 (26965)	23.34	22.37	21.36	20.18
		831.5 (26865)	23.43	22.40	21.39	20.18
		822.5 (26775)	23.32	22.40	21.33	20.26

LTE Band41 ANT4 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	24.19	23.15	21.77	18.90
		2640.3(41093)	23.74	22.78	21.32	18.78
		2593 (40620)	23.94	22.97	21.56	18.72
		2545.8(40148)	24.05	23.08	21.64	18.89
		2498.5 (39675)	23.89	22.91	21.48	18.65
	1RB-Middle (12)	2687.5 (41565)	24.16	23.15	21.73	18.83
		2640.3(41093)	23.78	22.81	21.31	18.65
		2593 (40620)	24.01	23.00	21.59	18.79
		2545.8(40148)	24.08	23.08	21.64	18.79
		2498.5 (39675)	23.90	22.95	21.46	18.91
	1RB-Low (0)	2687.5 (41565)	24.07	23.12	21.74	18.90

		2640.3(41093)	23.76	22.74	21.37	18.70
		2593 (40620)	23.97	22.98	21.58	18.83
		2545.8(40148)	24.08	23.15	21.70	18.76
		2498.5 (39675)	23.85	22.84	21.43	18.66
	12RB-High (13)	2687.5 (41565)	23.12	22.10	21.17	18.68
		2640.3(41093)	22.70	21.67	20.70	18.68
		2593 (40620)	22.91	21.84	20.94	18.70
		2545.8(40148)	22.95	21.98	21.04	18.72
		2498.5 (39675)	22.83	21.78	20.85	18.67
	12RB-Middle (6)	2687.5 (41565)	23.09	22.06	21.11	18.70
		2640.3(41093)	22.71	21.66	20.76	18.80
		2593 (40620)	22.90	21.86	20.90	18.74
		2545.8(40148)	23.04	21.98	21.04	18.71
		2498.5 (39675)	22.84	21.80	20.85	18.84
	12RB-Low (0)	2687.5 (41565)	23.12	22.07	21.16	18.74
		2640.3(41093)	22.74	21.66	20.80	18.85
		2593 (40620)	22.91	21.86	20.91	18.80
		2545.8(40148)	23.06	22.01	21.06	18.77
		2498.5 (39675)	22.78	21.77	20.80	18.91
	25RB (0)	2687.5 (41565)	23.12	22.09	21.17	18.66
		2640.3(41093)	22.73	21.75	20.75	18.65
		2593 (40620)	22.90	21.89	20.92	18.71
		2545.8(40148)	23.04	22.03	21.07	18.67
		2498.5 (39675)	22.83	21.85	20.89	18.74
10MHz	1RB-High (49)	2685 (41540)	24.19	23.17	21.77	18.74
		2639(41080)	23.72	22.77	21.33	18.84
		2593 (40620)	23.88	22.91	21.50	18.88
		2547(40160)	24.01	23.03	21.59	18.74
		2501 (39700)	23.93	23.02	21.54	18.80
	1RB-Middle (24)	2685 (41540)	24.09	23.06	21.71	18.76
		2639(41080)	23.71	22.77	21.31	18.85
		2593 (40620)	23.93	22.93	21.54	18.70
		2547(40160)	24.01	23.06	21.61	18.74
		2501 (39700)	23.84	22.85	21.46	18.87
	1RB-Low (0)	2685 (41540)	24.07	23.08	21.67	18.65
		2639(41080)	23.83	22.83	21.43	18.76
		2593 (40620)	23.96	23.01	21.60	18.80
		2547(40160)	24.10	23.12	21.71	18.72
		2501 (39700)	23.83	22.86	21.44	18.74
	25RB-High (25)	2685 (41540)	23.05	22.04	21.12	18.82
		2639(41080)	22.72	21.67	20.74	18.83

		2593 (40620)	22.86	21.81	20.88	18.84
		2547(40160)	22.97	21.97	21.03	18.65
		2501 (39700)	22.87	21.86	20.93	18.73
	25RB-Middle (12)	2685 (41540)	23.03	22.01	21.07	18.84
		2639(41080)	22.69	21.69	20.71	18.62
		2593 (40620)	22.85	21.87	20.89	18.79
		2547(40160)	22.97	21.96	21.04	18.85
		2501 (39700)	22.81	21.81	20.86	18.88
	25RB-Low (0)	2685 (41540)	23.02	22.02	21.08	18.74
		2639(41080)	22.74	21.73	20.75	18.68
		2593 (40620)	22.91	21.92	20.94	18.84
		2547(40160)	23.00	22.01	21.06	18.79
		2501 (39700)	22.79	21.78	20.84	18.82
	50RB (0)	2685 (41540)	23.04	22.08	21.07	18.88
		2639(41080)	22.68	21.71	20.70	18.77
		2593 (40620)	22.86	21.89	20.87	18.71
		2547(40160)	22.98	22.01	21.00	18.65
		2501 (39700)	22.83	21.83	20.84	18.83
15MHz	1RB-High (74)	2682.5 (41515)	24.13	23.12	21.69	18.67
		2637.8(41068)	23.67	22.70	21.26	18.81
		2593 (40620)	23.83	22.86	21.41	18.79
		2548.3(40173)	23.87	22.91	21.45	18.87
		2503.5 (39725)	23.92	22.95	21.51	18.81
	1RB-Middle (37)	2682.5 (41515)	24.05	23.08	21.64	18.66
		2637.8(41068)	23.73	22.77	21.37	18.81
		2593 (40620)	23.95	22.96	21.54	18.73
		2548.3(40173)	24.03	23.06	21.62	18.90
		2503.5 (39725)	23.82	22.90	21.46	18.74
	1RB-Low (0)	2682.5 (41515)	23.98	22.98	21.55	18.90
		2637.8(41068)	23.78	22.83	21.38	18.80
		2593 (40620)	23.91	22.93	21.52	18.74
		2548.3(40173)	24.03	23.06	21.62	18.85
		2503.5 (39725)	23.71	22.78	21.34	18.64
	36RB-High (38)	2682.5 (41515)	23.01	21.99	21.02	18.66
		2637.8(41068)	22.62	21.60	20.61	18.68
		2593 (40620)	22.78	21.77	20.76	18.82
		2548.3(40173)	22.88	21.86	20.93	18.82
		2503.5 (39725)	22.79	21.80	20.82	18.88
	36RB-Middle (19)	2682.5 (41515)	22.97	21.96	21.02	18.87
		2637.8(41068)	22.64	21.65	20.67	18.87
		2593 (40620)	22.83	21.81	20.85	18.67

		2548.3(40173)	22.95	21.93	20.94	18.71
		2503.5 (39725)	22.79	21.78	20.78	18.77
	36RB-Low (0)	2682.5 (41515)	22.96	21.94	20.96	18.75
		2637.8(41068)	22.72	21.70	20.72	18.76
		2593 (40620)	22.86	21.83	20.83	18.76
		2548.3(40173)	22.98	21.95	20.96	18.78
		2503.5 (39725)	22.70	21.71	20.72	18.68
	75RB (0)	2682.5 (41515)	22.99	22.05	21.03	18.69
		2637.8(41068)	22.68	21.73	20.71	18.80
		2593 (40620)	22.85	21.87	20.87	18.66
		2548.3(40173)	22.95	21.98	20.98	18.70
		2503.5 (39725)	22.78	21.82	20.83	18.81
20MHz	1RB-High (99)	2680 (41490)	23.90	23.12	21.69	18.80
		2636.5(41055)	23.74	22.79	21.34	18.82
		2593 (40620)	23.84	22.86	21.42	18.87
		2549.5(40185)	23.85	22.88	21.42	18.62
		2506 (39750)	23.99	23.03	21.58	18.92
	1RB-Middle (50)	2680 (41490)	24.04	23.07	21.64	18.71
		2636.5(41055)	23.76	22.79	21.35	18.72
		2593 (40620)	24.07	22.98	21.53	18.70
		2549.5(40185)	23.98	23.01	21.60	18.63
		2506 (39750)	23.87	22.91	21.50	18.75
	1RB-Low (0)	2680 (41490)	23.97	22.93	21.52	18.74
		2636.5(41055)	23.84	22.89	21.42	18.84
		2593 (40620)	23.90	22.92	21.47	18.75
		2549.5(40185)	24.05	23.10	21.64	18.87
		2506 (39750)	23.76	22.79	21.31	18.77
	50RB-High (50)	2680 (41490)	22.87	22.02	21.03	18.89
		2636.5(41055)	22.70	21.70	20.68	18.78
		2593 (40620)	22.84	21.85	20.81	18.87
		2549.5(40185)	22.87	21.92	20.90	18.85
		2506 (39750)	22.90	21.92	20.92	18.79
	50RB-Middle (25)	2680 (41490)	23.00	22.02	21.01	18.81
		2636.5(41055)	22.74	21.75	20.76	18.89
		2593 (40620)	23.02	21.90	20.86	18.72
		2549.5(40185)	22.99	22.00	20.97	18.67
		2506 (39750)	22.84	21.87	20.88	18.73
	50RB-Low (0)	2680 (41490)	22.93	21.98	20.97	18.89
		2636.5(41055)	22.79	21.81	20.77	18.90
		2593 (40620)	22.90	21.93	20.92	18.67
		2549.5(40185)	22.99	22.02	20.99	18.84

		2506 (39750)	22.75	21.77	20.79	18.71
	100RB (0)	2680 (41490)	22.97	22.00	20.98	18.79
		2636.5(41055)	22.76	21.78	20.75	18.65
		2593 (40620)	22.85	21.88	20.86	18.85
		2549.5(40185)	22.94	21.95	20.94	18.65
		2506 (39750)	22.83	21.85	20.85	18.76

LTE Band41 ANT4 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	19.92	20.24	19.69	18.63
		2640.3(41093)	19.70	19.70	19.60	18.67
		2593 (40620)	19.56	19.73	19.63	18.80
		2545.8(40148)	19.56	19.70	19.59	18.65
		2498.5 (39675)	19.83	20.02	19.82	18.91
	1RB-Middle (12)	2687.5 (41565)	19.74	20.13	19.83	18.69
		2640.3(41093)	19.63	19.71	19.53	18.81
		2593 (40620)	19.55	19.71	19.53	18.68
		2545.8(40148)	19.66	19.98	19.62	18.78
		2498.5 (39675)	19.62	20.03	19.45	18.51
	1RB-Low (0)	2687.5 (41565)	19.69	20.04	19.70	18.71
		2640.3(41093)	19.54	19.84	19.59	18.42
		2593 (40620)	19.67	19.66	19.36	18.58
		2545.8(40148)	19.91	20.12	19.90	18.87
		2498.5 (39675)	19.56	19.73	19.37	18.67
	12RB-High (13)	2687.5 (41565)	19.91	19.74	19.72	18.51
		2640.3(41093)	19.46	19.44	19.49	18.56
		2593 (40620)	19.50	19.58	19.62	18.55
		2545.8(40148)	19.44	19.66	19.47	18.71
		2498.5 (39675)	19.68	19.62	19.84	18.70
	12RB-Middle (6)	2687.5 (41565)	19.79	19.72	19.80	18.89
		2640.3(41093)	19.57	19.60	19.68	18.84
		2593 (40620)	19.62	19.63	19.45	18.78
		2545.8(40148)	19.58	19.51	19.76	18.64
		2498.5 (39675)	19.52	19.72	19.62	18.60
	12RB-Low (0)	2687.5 (41565)	19.82	19.85	19.78	18.89
		2640.3(41093)	19.51	19.73	19.76	18.71
		2593 (40620)	19.61	19.41	19.43	18.71
		2545.8(40148)	19.56	19.70	19.84	18.81
		2498.5 (39675)	19.49	19.53	19.47	18.90
	25RB (0)	2687.5 (41565)	19.67	19.80	19.84	18.72

		2640.3(41093)	19.53	19.61	19.50	18.75
		2593 (40620)	19.43	19.44	19.61	18.66
		2545.8(40148)	19.64	19.65	19.71	18.73
		2498.5 (39675)	19.46	19.72	19.50	18.92
10MHz	1RB-High (49)	2685 (41540)	20.00	20.21	19.95	18.72
		2639(41080)	19.44	19.80	19.62	18.73
		2593 (40620)	19.44	19.66	19.58	18.81
		2547(40160)	19.51	19.92	19.34	18.88
		2501 (39700)	19.76	20.08	19.86	18.69
	1RB-Middle (24)	2685 (41540)	19.64	20.08	19.73	18.72
		2639(41080)	19.77	19.81	19.48	18.53
		2593 (40620)	19.48	19.79	19.48	18.65
		2547(40160)	19.69	19.90	19.63	18.84
		2501 (39700)	19.57	19.97	19.46	18.60
	1RB-Low (0)	2685 (41540)	19.88	20.07	19.90	18.80
		2639(41080)	19.74	19.82	19.53	18.43
		2593 (40620)	19.71	19.85	19.61	18.49
		2547(40160)	19.92	19.92	19.79	18.72
		2501 (39700)	19.36	19.68	19.42	18.65
	25RB-High (25)	2685 (41540)	19.64	19.87	19.80	18.51
		2639(41080)	19.42	19.58	19.67	18.59
		2593 (40620)	19.47	19.48	19.44	18.68
		2547(40160)	19.41	19.48	19.62	18.74
		2501 (39700)	19.78	19.67	19.73	18.94
	25RB-Middle (12)	2685 (41540)	19.72	19.73	19.92	18.75
		2639(41080)	19.58	19.62	19.71	18.88
		2593 (40620)	19.44	19.50	19.43	18.86
		2547(40160)	19.59	19.60	19.68	18.59
		2501 (39700)	19.65	19.45	19.54	18.59
	25RB-Low (0)	2685 (41540)	19.91	19.91	19.66	18.63
		2639(41080)	19.61	19.55	19.56	18.73
		2593 (40620)	19.50	19.58	19.52	18.53
		2547(40160)	19.63	19.68	19.57	18.93
		2501 (39700)	19.62	19.42	19.68	18.90
	50RB (0)	2685 (41540)	19.66	19.91	19.88	18.74
		2639(41080)	19.50	19.52	19.64	18.74
		2593 (40620)	19.41	19.52	19.57	18.76
		2547(40160)	19.53	19.69	19.72	18.78
		2501 (39700)	19.54	19.48	19.68	18.89
15MHz	1RB-High (74)	2682.5 (41515)	19.78	19.99	19.74	18.66
		2637.8(41068)	19.58	19.79	19.44	18.77

		2593 (40620)	19.42	19.90	19.54	18.57
		2548.3(40173)	19.68	19.78	19.40	18.86
		2503.5 (39725)	19.60	19.84	19.87	18.73
	1RB-Middle (37)	2682.5 (41515)	19.64	19.94	19.77	18.70
		2637.8(41068)	19.55	19.89	19.53	18.58
		2593 (40620)	19.59	19.86	19.37	18.82
		2548.3(40173)	19.60	19.85	19.62	18.93
		2503.5 (39725)	19.49	19.92	19.69	18.54
	1RB-Low (0)	2682.5 (41515)	19.67	20.01	19.84	18.82
		2637.8(41068)	19.76	19.84	19.53	18.66
		2593 (40620)	19.51	19.75	19.44	18.63
		2548.3(40173)	19.68	20.01	19.72	18.78
		2503.5 (39725)	19.56	19.61	19.60	18.58
	36RB-High (38)	2682.5 (41515)	19.81	19.82	19.85	18.66
		2637.8(41068)	19.56	19.64	19.53	18.57
		2593 (40620)	19.52	19.62	19.52	18.72
		2548.3(40173)	19.49	19.69	19.50	18.90
		2503.5 (39725)	19.64	19.70	19.59	18.93
	36RB-Middle (19)	2682.5 (41515)	19.83	19.90	19.81	18.92
		2637.8(41068)	19.52	19.48	19.66	18.70
		2593 (40620)	19.42	19.65	19.47	18.90
		2548.3(40173)	19.56	19.59	19.63	18.77
		2503.5 (39725)	19.69	19.59	19.69	18.60
	36RB-Low (0)	2682.5 (41515)	19.77	19.90	19.66	18.85
		2637.8(41068)	19.66	19.71	19.72	18.65
		2593 (40620)	19.45	19.48	19.54	18.56
		2548.3(40173)	19.63	19.70	19.57	18.85
		2503.5 (39725)	19.58	19.61	19.50	18.88
	75RB (0)	2682.5 (41515)	19.82	19.73	19.86	18.64
		2637.8(41068)	19.58	19.43	19.69	18.45
		2593 (40620)	19.45	19.70	19.35	18.82
		2548.3(40173)	19.66	19.54	19.79	18.62
		2503.5 (39725)	19.73	19.67	19.48	18.69
20MHz	1RB-High (99)	2680 (41490)	19.87	20.12	19.82	18.72
		2636.5(41055)	19.57	19.77	19.50	18.72
		2593 (40620)	19.55	19.79	19.48	18.70
		2549.5(40185)	19.56	19.77	19.48	18.76
		2506 (39750)	19.74	19.98	19.72	18.82
	1RB-Middle (50)	2680 (41490)	19.76	20.01	19.75	18.61
		2636.5(41055)	19.62	19.81	19.56	18.68
		2593 (40620)	19.54	19.77	19.45	18.67

		2549.5(40185)	19.65	19.85	19.59	18.79
		2506 (39750)	19.63	19.89	19.58	18.55
	1RB-Low (0)	2680 (41490)	19.81	20.02	19.77	18.80
		2636.5(41055)	19.64	19.86	19.60	18.57
		2593 (40620)	19.58	19.79	19.49	18.55
		2549.5(40185)	19.82	20.02	19.76	18.84
		2506 (39750)	19.51	19.74	19.46	18.61
	50RB-High (50)	2680 (41490)	19.79	19.82	19.80	18.57
		2636.5(41055)	19.56	19.56	19.57	18.63
		2593 (40620)	19.49	19.50	19.48	18.65
		2549.5(40185)	19.55	19.57	19.56	18.77
		2506 (39750)	19.68	19.70	19.70	18.84
	50RB-Middle (25)	2680 (41490)	19.78	19.81	19.79	18.77
		2636.5(41055)	19.58	19.60	19.59	18.84
		2593 (40620)	19.52	19.54	19.54	18.81
		2549.5(40185)	19.64	19.66	19.64	18.69
		2506 (39750)	19.57	19.60	19.61	18.62
	50RB-Low (0)	2680 (41490)	19.88	19.83	19.81	18.76
		2636.5(41055)	19.61	19.63	19.61	18.67
		2593 (40620)	19.52	19.55	19.52	18.64
		2549.5(40185)	19.70	19.73	19.70	18.78
		2506 (39750)	19.51	19.56	19.53	18.77
	100RB (0)	2680 (41490)	19.79	19.81	19.77	18.61
		2636.5(41055)	19.58	19.58	19.58	18.60
		2593 (40620)	19.53	19.56	19.50	18.70
		2549.5(40185)	19.65	19.67	19.66	18.63
		2506 (39750)	19.59	19.61	19.58	18.82

LTE Band41 ANT4 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	19.17	19.54	19.11	18.86
		2640.3(41093)	19.03	19.14	18.79	18.84
		2593 (40620)	18.81	19.00	18.91	18.58
		2545.8(40148)	18.91	19.27	18.92	18.52
		2498.5 (39675)	19.25	19.27	19.11	18.75
	1RB-Middle (12)	2687.5 (41565)	19.07	19.51	18.96	18.72
		2640.3(41093)	19.05	19.15	18.83	18.76
		2593 (40620)	18.81	19.23	18.92	18.92
		2545.8(40148)	19.09	19.26	18.96	18.60
		2498.5 (39675)	18.84	19.19	18.81	18.82

	1RB-Low (0)	2687.5 (41565)	19.02	19.49	19.11	18.73
		2640.3(41093)	18.94	19.27	18.97	18.70
		2593 (40620)	18.98	19.10	18.94	18.57
		2545.8(40148)	18.99	19.50	19.04	18.73
		2498.5 (39675)	18.90	19.12	18.70	18.64
	12RB-High (13)	2687.5 (41565)	19.05	19.18	19.20	18.74
		2640.3(41093)	18.76	18.85	18.83	18.54
		2593 (40620)	18.98	18.74	18.77	18.77
		2545.8(40148)	18.85	18.81	18.99	18.82
		2498.5 (39675)	19.01	18.93	19.16	18.93
	12RB-Middle (6)	2687.5 (41565)	19.26	19.13	19.20	18.64
		2640.3(41093)	18.88	18.81	18.90	18.74
		2593 (40620)	18.99	18.77	18.97	18.68
		2545.8(40148)	19.13	19.05	18.89	18.66
		2498.5 (39675)	18.96	18.96	18.87	18.60
	12RB-Low (0)	2687.5 (41565)	19.16	19.20	19.06	18.51
		2640.3(41093)	19.03	18.90	18.90	18.80
		2593 (40620)	18.96	18.77	18.92	18.52
		2545.8(40148)	18.98	19.20	19.05	18.67
		2498.5 (39675)	18.91	18.91	18.78	18.70
	25RB (0)	2687.5 (41565)	19.10	19.03	19.12	18.58
		2640.3(41093)	18.79	18.85	18.84	18.68
		2593 (40620)	19.00	18.99	18.81	18.83
		2545.8(40148)	19.03	18.88	19.01	18.72
		2498.5 (39675)	19.05	18.83	19.03	18.43
10MHz	1RB-High (49)	2685 (41540)	19.16	19.42	19.16	18.70
		2639(41080)	18.97	19.05	18.91	18.61
		2593 (40620)	18.76	19.02	19.00	18.61
		2547(40160)	18.95	19.10	18.83	18.73
		2501 (39700)	19.06	19.45	18.96	18.83
	1RB-Middle (24)	2685 (41540)	19.05	19.52	19.03	18.46
		2639(41080)	18.99	19.03	18.81	18.69
		2593 (40620)	18.83	19.22	18.76	18.74
		2547(40160)	18.89	19.10	18.93	18.64
		2501 (39700)	18.86	19.32	18.97	18.85
	1RB-Low (0)	2685 (41540)	19.24	19.40	19.09	18.69
		2639(41080)	19.03	19.23	18.86	18.58
		2593 (40620)	18.83	19.07	18.72	18.53
		2547(40160)	19.10	19.33	19.04	18.80
		2501 (39700)	18.71	19.10	18.95	18.73
	25RB-High (25)	2685 (41540)	19.18	19.26	19.08	18.68

		2639(41080)	18.90	18.77	18.91	18.73
		2593 (40620)	18.97	18.74	18.71	18.88
		2547(40160)	18.82	18.94	18.82	18.74
		2501 (39700)	18.89	18.96	18.91	18.81
	25RB-Middle (12)	2685 (41540)	18.98	19.17	19.01	18.56
		2639(41080)	18.95	18.85	18.93	18.62
		2593 (40620)	18.81	18.93	18.84	18.70
		2547(40160)	19.01	19.18	19.01	18.53
		2501 (39700)	18.96	18.97	19.01	18.48
	25RB-Low (0)	2685 (41540)	18.96	19.20	19.30	18.79
		2639(41080)	18.97	18.87	18.91	18.84
		2593 (40620)	18.85	18.77	18.87	18.48
		2547(40160)	18.91	19.15	18.97	18.66
		2501 (39700)	18.92	18.79	19.03	18.75
	50RB (0)	2685 (41540)	19.22	19.00	19.17	18.72
		2639(41080)	18.90	18.80	18.89	18.72
		2593 (40620)	19.01	18.93	18.91	18.80
		2547(40160)	18.89	19.10	19.03	18.60
		2501 (39700)	19.05	18.90	18.87	18.40
15MHz	1RB-High (74)	2682.5 (41515)	19.10	19.52	19.12	18.81
		2637.8(41068)	19.07	19.28	18.86	18.83
		2593 (40620)	18.96	19.17	18.95	18.63
		2548.3(40173)	18.82	19.24	18.71	18.59
		2503.5 (39725)	19.06	19.39	19.15	18.56
	1RB-Middle (37)	2682.5 (41515)	19.17	19.49	19.02	18.63
		2637.8(41068)	19.07	19.28	19.02	18.69
		2593 (40620)	18.91	19.03	18.91	18.94
		2548.3(40173)	18.90	19.26	18.95	18.53
		2503.5 (39725)	18.88	19.07	18.96	18.85
	1RB-Low (0)	2682.5 (41515)	19.07	19.51	19.24	18.71
		2637.8(41068)	19.12	19.27	19.02	18.64
		2593 (40620)	18.94	19.10	18.84	18.52
		2548.3(40173)	19.18	19.27	19.21	18.82
		2503.5 (39725)	18.90	19.10	18.82	18.73
	36RB-High (38)	2682.5 (41515)	19.15	19.04	19.17	18.65
		2637.8(41068)	18.76	18.81	19.04	18.57
		2593 (40620)	18.88	18.82	18.69	18.87
		2548.3(40173)	18.89	18.81	18.93	18.81
		2503.5 (39725)	19.04	18.98	19.04	18.78
	36RB-Middle (19)	2682.5 (41515)	19.19	19.15	19.00	18.54
		2637.8(41068)	18.82	18.88	18.90	18.65

		2593 (40620)	18.84	18.94	19.05	18.93
		2548.3(40173)	18.93	19.09	18.97	18.78
		2503.5 (39725)	18.84	18.86	19.05	18.53
	36RB-Low (0)	2682.5 (41515)	18.98	19.12	19.00	18.52
		2637.8(41068)	18.90	18.85	19.02	18.85
		2593 (40620)	18.85	19.00	18.82	18.56
		2548.3(40173)	19.12	18.97	19.09	18.70
		2503.5 (39725)	18.95	18.78	18.74	18.96
	75RB (0)	2682.5 (41515)	19.11	19.16	19.16	18.58
		2637.8(41068)	18.92	19.08	18.87	18.71
		2593 (40620)	18.89	18.88	19.00	18.78
		2548.3(40173)	19.01	18.92	18.99	18.81
		2503.5 (39725)	18.82	19.03	19.03	18.60
20MHz	1RB-High (99)	2680 (41490)	19.11	19.45	19.18	18.72
		2636.5(41055)	18.92	19.14	18.87	18.75
		2593 (40620)	18.88	19.12	18.85	18.66
		2549.5(40185)	18.87	19.13	18.85	18.64
		2506 (39750)	19.11	19.33	19.06	18.71
	1RB-Middle (50)	2680 (41490)	19.13	19.37	19.07	18.58
		2636.5(41055)	18.97	19.17	18.89	18.83
		2593 (40620)	18.86	19.11	18.85	18.82
		2549.5(40185)	19.00	19.23	18.95	18.62
		2506 (39750)	18.97	19.22	18.95	18.77
	1RB-Low (0)	2680 (41490)	19.16	19.36	19.11	18.76
		2636.5(41055)	19.00	19.20	18.95	18.57
		2593 (40620)	18.92	19.14	18.86	18.67
		2549.5(40185)	19.11	19.40	19.10	18.69
		2506 (39750)	18.86	19.08	18.81	18.75
	50RB-High (50)	2680 (41490)	19.19	19.18	19.17	18.72
		2636.5(41055)	18.91	18.91	18.90	18.67
		2593 (40620)	18.84	18.85	18.83	18.81
		2549.5(40185)	18.91	18.94	18.91	18.79
		2506 (39750)	19.04	19.08	19.04	18.78
	50RB-Middle (25)	2680 (41490)	19.13	19.14	19.14	18.68
		2636.5(41055)	18.93	18.94	18.94	18.68
		2593 (40620)	18.88	18.92	18.90	18.82
		2549.5(40185)	19.02	19.04	19.01	18.68
		2506 (39750)	18.96	18.96	18.95	18.59
	50RB-Low (0)	2680 (41490)	19.11	19.18	19.15	18.65
		2636.5(41055)	18.94	18.98	18.94	18.73
		2593 (40620)	18.87	18.92	18.89	18.61

		2549.5(40185)	19.05	19.09	19.07	18.59
		2506 (39750)	18.89	18.91	18.89	18.83
	100RB (0)	2680 (41490)	19.15	19.15	19.12	18.61
		2636.5(41055)	18.93	18.94	18.92	18.57
		2593 (40620)	18.88	18.88	18.85	18.73
		2549.5(40185)	19.02	19.01	19.01	18.75
		2506 (39750)	18.96	18.95	18.94	18.55

LTE Band66 ANT1 (Power Level A1/B1/D1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.28	22.43	21.41	19.07
		1745 (132322)	23.40	22.59	21.47	18.94
		1710.7 (131979)	23.37	22.61	21.54	19.18
	1RB-Middle (3)	1779.3 (132665)	23.23	22.54	21.51	19.09
		1745 (132322)	23.52	22.63	21.45	18.95
		1710.7 (131979)	23.32	22.59	21.61	18.98
	1RB-Low (0)	1779.3 (132665)	23.35	22.39	21.35	19.23
		1745 (132322)	23.36	22.65	21.62	18.95
		1710.7 (131979)	23.42	22.60	21.60	19.12
	3RB-High (3)	1779.3 (132665)	23.33	22.25	21.39	18.94
		1745 (132322)	23.48	22.37	21.51	19.13
		1710.7 (131979)	23.50	22.40	21.50	19.22
	3RB-Middle (1)	1779.3 (132665)	23.21	22.37	21.31	19.18
		1745 (132322)	23.37	22.36	21.43	19.14
		1710.7 (131979)	23.40	22.43	21.50	18.98
	3RB-Low (0)	1779.3 (132665)	23.38	22.19	21.31	18.97
		1745 (132322)	23.37	22.41	21.49	19.23
		1710.7 (131979)	23.41	22.37	21.46	18.94
	6RB (0)	1779.3 (132665)	22.20	21.31	20.24	18.93
		1745 (132322)	22.36	21.52	20.32	19.09
		1710.7 (131979)	22.44	21.54	20.37	18.98
3MHz	1RB-High (14)	1778.5 (132657)	23.14	22.56	21.40	19.19
		1745 (132322)	23.40	22.59	21.65	19.00
		1711.5 (131987)	23.41	22.59	21.58	18.99
	1RB-Middle (7)	1778.5 (132657)	23.17	22.29	21.36	19.10
		1745 (132322)	23.41	22.74	21.66	19.10
		1711.5 (131987)	23.44	22.67	21.48	19.21
	1RB-Low (0)	1778.5 (132657)	23.09	22.33	21.36	19.18
		1745 (132322)	23.38	22.59	21.53	19.04
		1711.5 (131987)	23.42	22.61	21.63	19.14

	8RB-High (7)	1778.5 (132657)	22.26	21.34	20.35	19.04
		1745 (132322)	22.38	21.41	20.46	19.19
		1711.5 (131987)	22.43	21.51	20.49	19.00
	8RB-Middle (4)	1778.5 (132657)	22.28	21.37	20.34	19.23
		1745 (132322)	22.40	21.44	20.41	19.23
		1711.5 (131987)	22.38	21.47	20.45	19.01
	8RB-Low (0)	1778.5 (132657)	22.25	21.33	20.35	19.14
		1745 (132322)	22.38	21.46	20.42	19.19
		1711.5 (131987)	22.37	21.48	20.45	19.08
	15RB (0)	1778.5 (132657)	22.21	21.21	20.22	19.12
		1745 (132322)	22.38	21.41	20.37	19.16
		1711.5 (131987)	22.41	21.37	20.46	18.95
5MHz	1RB-High (24)	1777.5 (132647)	23.32	22.55	21.42	19.13
		1745 (132322)	23.43	22.69	21.67	19.13
		1712.5 (131997)	23.47	22.77	21.60	18.97
	1RB-Middle (12)	1777.5 (132647)	23.29	22.46	21.48	19.23
		1745 (132322)	23.35	22.75	21.74	19.10
		1712.5 (131997)	23.44	22.74	21.49	19.00
	1RB-Low (0)	1777.5 (132647)	23.28	22.60	21.37	19.05
		1745 (132322)	23.41	22.66	21.57	19.18
		1712.5 (131997)	23.40	22.63	21.60	19.03
	12RB-High (13)	1777.5 (132647)	22.35	21.33	20.30	19.00
		1745 (132322)	22.45	21.46	20.49	19.07
		1712.5 (131997)	22.43	21.47	20.50	19.00
	12RB-Middle (6)	1777.5 (132647)	22.26	21.29	20.25	18.94
		1745 (132322)	22.43	21.41	20.48	19.15
		1712.5 (131997)	22.46	21.48	20.45	19.21
	12RB-Low (0)	1777.5 (132647)	22.19	21.26	20.25	19.07
		1745 (132322)	22.47	21.44	20.50	18.96
		1712.5 (131997)	22.43	21.43	20.46	19.12
	25RB (0)	1777.5 (132647)	22.29	21.27	20.29	19.13
		1745 (132322)	22.46	21.48	20.42	19.12
		1712.5 (131997)	22.51	21.50	20.45	19.19
10MHz	1RB-High (49)	1775 (132622)	23.33	22.68	21.44	19.16
		1745 (132322)	23.48	22.82	21.57	19.23
		1715 (132022)	23.46	22.81	21.62	19.11
	1RB-Middle (24)	1775 (132622)	23.18	22.45	21.48	19.17
		1745 (132322)	23.40	22.79	21.65	19.20
		1715 (132022)	23.41	22.71	21.64	19.05
	1RB-Low (0)	1775 (132622)	23.36	22.57	21.54	19.08
		1745 (132322)	23.47	22.76	21.62	19.04

		1715 (132022)	23.47	22.70	21.55	18.95
	25RB-High (25)	1775 (132622)	22.28	21.26	20.26	19.20
		1745 (132322)	22.43	21.40	20.39	18.93
		1715 (132022)	22.49	21.48	20.50	19.18
	25RB-Middle (12)	1775 (132622)	22.24	21.23	20.21	19.13
		1745 (132322)	22.38	21.39	20.39	19.06
		1715 (132022)	22.40	21.38	20.40	19.02
	25RB-Low (0)	1775 (132622)	22.26	21.27	20.26	19.03
		1745 (132322)	22.42	21.44	20.43	19.00
		1715 (132022)	22.43	21.34	20.42	19.03
	50RB (0)	1775 (132622)	22.29	21.28	20.25	19.05
		1745 (132322)	22.38	21.39	20.38	19.10
		1715 (132022)	22.44	21.45	20.47	19.02
15MHz	1RB-High (74)	1772.5 (132597)	23.35	22.53	21.44	19.08
		1745 (132322)	23.37	22.64	21.56	19.11
		1717.5 (132047)	23.39	22.57	21.55	19.22
	1RB-Middle (37)	1772.5 (132597)	23.28	22.61	21.41	18.94
		1745 (132322)	23.51	22.64	21.76	18.97
		1717.5 (132047)	23.48	22.78	21.66	19.20
	1RB-Low (0)	1772.5 (132597)	23.36	22.60	21.44	18.96
		1745 (132322)	23.38	22.76	21.55	19.21
		1717.5 (132047)	23.41	22.66	21.57	19.19
	36RB-High (38)	1772.5 (132597)	22.28	21.31	20.32	19.22
		1745 (132322)	22.41	21.42	20.45	19.12
		1717.5 (132047)	22.41	21.44	20.46	19.17
	36RB-Middle (19)	1772.5 (132597)	22.25	21.29	20.30	19.20
		1745 (132322)	22.40	21.43	20.44	18.93
		1717.5 (132047)	22.43	21.48	20.44	19.23
	36RB-Low (0)	1772.5 (132597)	22.32	21.34	20.33	19.06
		1745 (132322)	22.42	21.46	20.44	19.00
		1717.5 (132047)	22.39	21.45	20.45	18.98
	75RB (0)	1772.5 (132597)	22.28	21.33	20.32	19.07
		1745 (132322)	22.45	21.44	20.43	19.03
		1717.5 (132047)	22.44	21.45	20.47	19.09
20MHz	1RB-High (99)	1770 (132572)	23.47	22.57	21.33	18.94
		1745 (132322)	23.49	22.67	21.53	19.08
		1720 (132072)	23.31	22.58	21.54	19.14
	1RB-Middle (50)	1770 (132572)	23.38	22.67	21.54	19.02
		1745 (132322)	23.54	22.74	21.66	19.16
		1720 (132072)	23.40	22.61	21.48	19.05
	1RB-Low (0)	1770 (132572)	23.39	22.74	21.58	19.05

		1745 (132322)	23.41	22.57	21.53	19.20
		1720 (132072)	23.53	22.63	21.62	18.99
	50RB-High (50)	1770 (132572)	22.31	21.32	20.33	19.13
		1745 (132322)	22.45	21.50	20.45	19.09
		1720 (132072)	22.47	21.45	20.43	19.03
	50RB-Middle (25)	1770 (132572)	22.36	21.38	20.33	18.97
		1745 (132322)	22.49	21.45	20.47	19.09
		1720 (132072)	22.44	21.48	20.43	19.14
	50RB-Low (0)	1770 (132572)	22.41	21.42	20.42	19.21
		1745 (132322)	22.47	21.52	20.45	19.07
		1720 (132072)	22.44	21.44	20.43	19.11
	100RB (0)	1770 (132572)	22.38	21.38	20.35	19.08
		1745 (132322)	22.50	21.46	20.42	19.04
		1720 (132072)	22.45	21.43	20.39	19.08

LTE Band66 ANT1 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	22.31	22.57	21.49	18.65
		1745 (132322)	22.58	22.89	21.57	18.51
		1710.7 (131979)	22.70	22.85	21.73	18.50
	1RB-Middle (3)	1779.3 (132665)	22.61	22.58	21.66	18.14
		1745 (132322)	22.60	22.94	21.89	18.25
		1710.7 (131979)	22.82	22.86	21.75	18.30
	1RB-Low (0)	1779.3 (132665)	22.60	22.80	21.51	18.16
		1745 (132322)	22.65	22.69	21.95	18.45
		1710.7 (131979)	22.82	22.75	21.72	18.35
	3RB-High (3)	1779.3 (132665)	22.39	22.79	21.49	18.64
		1745 (132322)	22.59	22.77	21.67	18.53
		1710.7 (131979)	22.70	22.73	21.57	18.37
	3RB-Middle (1)	1779.3 (132665)	22.59	22.61	21.48	18.35
		1745 (132322)	22.73	22.73	21.81	18.53
		1710.7 (131979)	22.79	22.99	21.86	18.36
	3RB-Low (0)	1779.3 (132665)	22.44	22.63	21.45	18.43
		1745 (132322)	22.64	22.86	21.78	18.54
		1710.7 (131979)	22.71	22.93	21.76	18.26
	6RB (0)	1779.3 (132665)	22.53	21.39	20.60	18.41
		1745 (132322)	22.71	21.84	20.65	18.36
		1710.7 (131979)	22.85	21.72	20.56	18.45
3MHz	1RB-High (14)	1778.5 (132657)	22.51	22.57	21.48	18.43
		1745 (132322)	22.61	22.87	21.83	18.34

		1711.5 (131987)	22.66	22.87	21.65	18.46
	1RB-Middle (7)	1778.5 (132657)	22.34	22.80	21.73	18.31
		1745 (132322)	22.55	22.94	21.76	18.35
		1711.5 (131987)	22.67	22.96	21.83	18.46
	1RB-Low (0)	1778.5 (132657)	22.49	22.52	21.70	18.43
		1745 (132322)	22.78	22.66	21.76	18.52
		1711.5 (131987)	22.74	22.77	21.73	18.21
	8RB-High (7)	1778.5 (132657)	22.60	21.43	20.48	18.13
		1745 (132322)	22.71	21.80	20.77	18.25
		1711.5 (131987)	22.72	21.70	20.78	18.37
	8RB-Middle (4)	1778.5 (132657)	22.47	21.60	20.56	18.41
		1745 (132322)	22.78	21.67	20.81	18.24
		1711.5 (131987)	22.70	21.59	20.86	18.43
	8RB-Low (0)	1778.5 (132657)	22.48	21.46	20.46	18.20
		1745 (132322)	22.72	21.65	20.80	18.65
		1711.5 (131987)	22.79	21.79	20.81	18.47
	15RB (0)	1778.5 (132657)	22.47	21.57	20.65	18.33
		1745 (132322)	22.58	21.74	20.57	18.20
		1711.5 (131987)	22.73	21.57	20.63	18.42
5MHz	1RB-High (24)	1777.5 (132647)	22.51	22.74	21.51	18.61
		1745 (132322)	22.71	22.74	21.75	18.39
		1712.5 (131997)	22.78	22.78	21.79	18.40
	1RB-Middle (12)	1777.5 (132647)	22.42	22.61	21.69	18.43
		1745 (132322)	22.54	22.85	21.99	18.51
		1712.5 (131997)	22.75	22.97	21.76	18.43
	1RB-Low (0)	1777.5 (132647)	22.43	22.50	21.70	18.33
		1745 (132322)	22.74	22.80	21.94	18.61
		1712.5 (131997)	22.61	22.76	21.90	18.33
	12RB-High (13)	1777.5 (132647)	22.61	21.65	20.60	18.22
		1745 (132322)	22.63	21.67	20.78	18.20
		1712.5 (131997)	22.82	21.60	20.82	18.29
	12RB-Middle (6)	1777.5 (132647)	22.62	21.53	20.52	18.39
		1745 (132322)	22.64	21.57	20.66	18.39
		1712.5 (131997)	22.77	21.57	20.76	18.42
	12RB-Low (0)	1777.5 (132647)	22.62	21.69	20.66	18.29
		1745 (132322)	22.86	21.82	20.75	18.47
		1712.5 (131997)	22.68	21.51	20.81	18.51
	25RB (0)	1777.5 (132647)	22.65	21.56	20.54	18.48
		1745 (132322)	22.54	21.66	20.70	18.22
		1712.5 (131997)	22.65	21.63	20.70	18.42
10MHz	1RB-High (49)	1775 (132622)	22.50	22.80	21.56	18.40

		1745 (132322)	22.69	22.75	21.63	18.34
		1715 (132022)	22.59	22.76	21.82	18.53
	1RB-Middle (24)	1775 (132622)	22.54	22.72	21.68	18.36
		1745 (132322)	22.75	22.79	21.99	18.34
		1715 (132022)	22.69	22.88	21.86	18.35
	1RB-Low (0)	1775 (132622)	22.67	22.59	21.62	18.25
		1745 (132322)	22.76	22.79	21.70	18.43
		1715 (132022)	22.73	22.80	21.76	18.36
	25RB-High (25)	1775 (132622)	22.58	21.38	20.46	18.21
		1745 (132322)	22.75	21.82	20.73	18.39
		1715 (132022)	22.74	21.63	20.58	18.39
	25RB-Middle (12)	1775 (132622)	22.64	21.64	20.47	18.51
		1745 (132322)	22.57	21.63	20.56	18.22
		1715 (132022)	22.63	21.58	20.85	18.46
	25RB-Low (0)	1775 (132622)	22.69	21.63	20.55	18.17
		1745 (132322)	22.85	21.76	20.68	18.64
		1715 (132022)	22.81	21.68	20.56	18.33
	50RB (0)	1775 (132622)	22.48	21.39	20.46	18.31
		1745 (132322)	22.82	21.67	20.69	18.12
		1715 (132022)	22.75	21.55	20.65	18.52
15MHz	1RB-High (74)	1772.5 (132597)	22.36	22.80	21.37	18.64
		1745 (132322)	22.54	22.67	21.74	18.31
		1717.5 (132047)	22.58	22.95	21.72	18.48
	1RB-Middle (37)	1772.5 (132597)	22.60	22.56	21.51	18.20
		1745 (132322)	22.64	22.74	21.77	18.45
		1717.5 (132047)	22.70	22.95	21.90	18.50
	1RB-Low (0)	1772.5 (132597)	22.47	22.54	21.70	18.19
		1745 (132322)	22.84	22.94	21.66	18.63
		1717.5 (132047)	22.65	23.02	21.70	18.36
	36RB-High (38)	1772.5 (132597)	22.58	21.47	20.41	18.26
		1745 (132322)	22.80	21.85	20.62	18.16
		1717.5 (132047)	22.73	21.68	20.68	18.41
	36RB-Middle (19)	1772.5 (132597)	22.38	21.54	20.65	18.55
		1745 (132322)	22.63	21.81	20.82	18.40
		1717.5 (132047)	22.81	21.67	20.72	18.41
	36RB-Low (0)	1772.5 (132597)	22.46	21.67	20.59	18.24
		1745 (132322)	22.84	21.66	20.84	18.60
		1717.5 (132047)	22.61	21.80	20.77	18.31
	75RB (0)	1772.5 (132597)	22.55	21.41	20.61	18.43
		1745 (132322)	22.56	21.59	20.56	18.19
		1717.5 (132047)	22.62	21.62	20.67	18.39

20MHz	1RB-High (99)	1770 (132572)	22.45	22.72	21.51	18.50
		1745 (132322)	22.63	22.74	21.68	18.46
		1720 (132072)	22.71	22.81	21.71	18.45
	1RB-Middle (50)	1770 (132572)	22.48	22.67	21.60	18.29
		1745 (132322)	22.69	22.84	21.84	18.39
		1720 (132072)	22.68	22.85	21.78	18.39
	1RB-Low (0)	1770 (132572)	22.52	22.65	21.60	18.30
		1745 (132322)	22.75	22.81	21.81	18.54
		1720 (132072)	22.72	22.88	21.78	18.34
	50RB-High (50)	1770 (132572)	22.56	21.53	20.53	18.28
		1745 (132322)	22.70	21.71	20.70	18.29
		1720 (132072)	22.74	21.71	20.72	18.28
	50RB-Middle (25)	1770 (132572)	22.51	21.53	20.54	18.54
		1745 (132322)	22.66	21.66	20.69	18.37
		1720 (132072)	22.73	21.72	20.74	18.43
	50RB-Low (0)	1770 (132572)	22.55	21.55	20.59	18.30
		1745 (132322)	22.75	21.73	20.71	18.55
		1720 (132072)	22.69	21.65	20.66	18.40
	100RB (0)	1770 (132572)	22.55	21.54	20.53	18.35
		1745 (132322)	22.69	21.69	20.70	18.27
		1720 (132072)	22.75	21.68	20.70	18.47

LTE Band66 ANT1 (Power Level E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	19.43	19.81	19.48	18.54
		1745 (132322)	19.69	19.90	19.73	18.57
		1710.7 (131979)	19.62	19.70	19.60	18.52
	1RB-Middle (3)	1779.3 (132665)	19.60	19.54	19.47	18.43
		1745 (132322)	19.69	19.81	19.83	18.49
		1710.7 (131979)	19.77	19.82	19.88	18.59
	1RB-Low (0)	1779.3 (132665)	19.61	19.68	19.50	18.42
		1745 (132322)	19.76	19.87	19.63	18.42
		1710.7 (131979)	19.76	19.81	19.79	18.25
	3RB-High (3)	1779.3 (132665)	19.64	19.53	19.57	18.46
		1745 (132322)	19.64	19.66	19.71	18.47
		1710.7 (131979)	19.72	19.76	19.82	18.52
	3RB-Middle (1)	1779.3 (132665)	19.62	19.46	19.39	18.29
		1745 (132322)	19.58	19.61	19.60	18.38
		1710.7 (131979)	19.57	19.72	19.71	18.27
	3RB-Low (0)	1779.3 (132665)	19.50	19.55	19.55	18.23

		1745 (132322)	19.74	19.69	19.56	18.44
		1710.7 (131979)	19.62	19.69	19.71	18.22
	6RB (0)	1779.3 (132665)	19.58	19.48	19.54	18.43
		1745 (132322)	19.73	19.76	19.77	18.60
		1710.7 (131979)	19.72	19.73	19.75	18.39
3MHz	1RB-High (14)	1778.5 (132657)	19.47	19.75	19.40	18.36
		1745 (132322)	19.68	19.95	19.75	18.46
		1711.5 (131987)	19.63	19.68	19.84	18.43
	1RB-Middle (7)	1778.5 (132657)	19.53	19.75	19.58	18.60
		1745 (132322)	19.67	20.07	19.85	18.42
		1711.5 (131987)	19.75	19.85	19.78	18.44
	1RB-Low (0)	1778.5 (132657)	19.54	19.65	19.70	18.65
		1745 (132322)	19.62	19.79	19.74	18.32
		1711.5 (131987)	19.83	19.77	19.68	18.20
	8RB-High (7)	1778.5 (132657)	19.55	19.53	19.61	18.41
		1745 (132322)	19.59	19.59	19.52	18.51
		1711.5 (131987)	19.57	19.75	19.78	18.45
	8RB-Middle (4)	1778.5 (132657)	19.43	19.49	19.41	18.33
		1745 (132322)	19.56	19.62	19.74	18.18
		1711.5 (131987)	19.64	19.83	19.76	18.45
	8RB-Low (0)	1778.5 (132657)	19.45	19.58	19.49	18.37
		1745 (132322)	19.73	19.70	19.63	18.70
		1711.5 (131987)	19.61	19.73	19.63	18.18
	15RB (0)	1778.5 (132657)	19.57	19.60	19.61	18.42
		1745 (132322)	19.68	19.81	19.53	18.66
		1711.5 (131987)	19.73	19.53	19.60	18.44
5MHz	1RB-High (24)	1777.5 (132647)	19.32	19.69	19.58	18.58
		1745 (132322)	19.54	19.72	19.81	18.29
		1712.5 (131997)	19.76	19.84	19.80	18.33
	1RB-Middle (12)	1777.5 (132647)	19.58	19.55	19.48	18.62
		1745 (132322)	19.52	20.01	19.78	18.23
		1712.5 (131997)	19.60	19.98	19.65	18.61
	1RB-Low (0)	1777.5 (132647)	19.62	19.84	19.60	18.39
		1745 (132322)	19.61	19.84	19.57	18.26
		1712.5 (131997)	19.73	19.90	19.89	18.34
	12RB-High (13)	1777.5 (132647)	19.62	19.55	19.53	18.51
		1745 (132322)	19.61	19.55	19.70	18.42
		1712.5 (131997)	19.69	19.62	19.85	18.39
	12RB-Middle (6)	1777.5 (132647)	19.54	19.39	19.34	18.57
		1745 (132322)	19.61	19.52	19.68	18.20
		1712.5 (131997)	19.68	19.68	19.60	18.37

	12RB-Low (0)	1777.5 (132647)	19.63	19.54	19.46	18.40
		1745 (132322)	19.49	19.70	19.59	18.59
		1712.5 (131997)	19.71	19.59	19.59	18.18
	25RB (0)	1777.5 (132647)	19.55	19.65	19.39	18.60
		1745 (132322)	19.75	19.63	19.63	18.64
		1712.5 (131997)	19.67	19.60	19.59	18.51
10MHz	1RB-High (49)	1775 (132622)	19.39	19.79	19.67	18.31
		1745 (132322)	19.65	19.92	19.72	18.29
		1715 (132022)	19.70	19.69	19.57	18.51
	1RB-Middle (24)	1775 (132622)	19.61	19.62	19.48	18.53
		1745 (132322)	19.68	20.11	19.84	18.32
		1715 (132022)	19.58	19.73	19.64	18.60
	1RB-Low (0)	1775 (132622)	19.51	19.64	19.54	18.50
		1745 (132322)	19.73	19.73	19.71	18.36
		1715 (132022)	19.74	19.81	19.69	18.25
	25RB-High (25)	1775 (132622)	19.68	19.39	19.63	18.52
		1745 (132322)	19.59	19.84	19.80	18.43
		1715 (132022)	19.68	19.56	19.87	18.32
	25RB-Middle (12)	1775 (132622)	19.49	19.46	19.45	18.29
		1745 (132322)	19.61	19.67	19.53	18.32
		1715 (132022)	19.57	19.82	19.63	18.32
	25RB-Low (0)	1775 (132622)	19.46	19.45	19.52	18.49
		1745 (132322)	19.51	19.78	19.57	18.48
		1715 (132022)	19.65	19.65	19.60	18.41
	50RB (0)	1775 (132622)	19.57	19.59	19.51	18.63
		1745 (132322)	19.82	19.86	19.73	18.58
		1715 (132022)	19.83	19.59	19.75	18.38
15MHz	1RB-High (74)	1772.5 (132597)	19.51	19.65	19.66	18.33
		1745 (132322)	19.63	19.93	19.65	18.35
		1717.5 (132047)	19.55	19.71	19.63	18.39
	1RB-Middle (37)	1772.5 (132597)	19.44	19.46	19.60	18.37
		1745 (132322)	19.58	20.09	19.81	18.43
		1717.5 (132047)	19.53	19.72	19.89	18.49
	1RB-Low (0)	1772.5 (132597)	19.42	19.90	19.44	18.64
		1745 (132322)	19.65	19.82	19.84	18.56
		1717.5 (132047)	19.65	19.81	19.87	18.19
	36RB-High (38)	1772.5 (132597)	19.38	19.39	19.53	18.25
		1745 (132322)	19.75	19.75	19.74	18.60
		1717.5 (132047)	19.76	19.68	19.74	18.40
	36RB-Middle (19)	1772.5 (132597)	19.64	19.59	19.45	18.30
		1745 (132322)	19.75	19.66	19.70	18.38

		1717.5 (132047)	19.58	19.82	19.57	18.36
	36RB-Low (0)	1772.5 (132597)	19.42	19.60	19.54	18.24
		1745 (132322)	19.52	19.65	19.76	18.47
		1717.5 (132047)	19.76	19.58	19.79	18.40
	75RB (0)	1772.5 (132597)	19.68	19.45	19.63	18.62
		1745 (132322)	19.77	19.81	19.60	18.67
		1717.5 (132047)	19.71	19.57	19.76	18.36
20MHz	1RB-High (99)	1770 (132572)	19.47	19.74	19.55	18.43
		1745 (132322)	19.58	19.85	19.67	18.43
		1720 (132072)	19.62	19.77	19.72	18.38
	1RB-Middle (50)	1770 (132572)	19.50	19.60	19.50	18.47
		1745 (132322)	19.66	19.96	19.80	18.34
		1720 (132072)	19.68	19.84	19.77	18.55
	1RB-Low (0)	1770 (132572)	19.50	19.75	19.58	18.54
		1745 (132322)	19.73	19.88	19.70	18.41
		1720 (132072)	19.68	19.87	19.79	18.31
	50RB-High (50)	1770 (132572)	19.53	19.52	19.54	18.40
		1745 (132322)	19.63	19.69	19.67	18.52
		1720 (132072)	19.68	19.68	19.72	18.39
	50RB-Middle (25)	1770 (132572)	19.50	19.48	19.49	18.42
		1745 (132322)	19.69	19.64	19.65	18.33
		1720 (132072)	19.65	19.74	19.72	18.30
	50RB-Low (0)	1770 (132572)	19.56	19.53	19.54	18.36
		1745 (132322)	19.62	19.69	19.70	18.55
		1720 (132072)	19.67	19.64	19.67	18.29
	100RB (0)	1770 (132572)	19.55	19.53	19.52	18.53
		1745 (132322)	19.70	19.75	19.68	18.53
		1720 (132072)	19.69	19.66	19.68	18.42

LTE Band2 ANT4 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	23.91	22.90	21.81	18.81
		1880 (18900)	23.89	22.84	21.95	18.70
		1850.7 (18607)	23.76	22.75	21.92	18.72
	1RB-Middle (3)	1909.3 (19193)	23.89	23.04	22.06	18.78
		1880 (18900)	23.89	22.95	21.73	18.62
		1850.7 (18607)	23.86	22.77	21.70	18.54
	1RB-Low (0)	1909.3 (19193)	23.85	22.79	21.82	18.60
		1880 (18900)	23.82	22.90	21.66	18.80
		1850.7 (18607)	23.73	22.91	21.79	18.76

	3RB-High (3)	1909.3 (19193)	24.06	23.07	22.05	18.69
		1880 (18900)	23.88	22.84	21.85	18.66
		1850.7 (18607)	23.74	22.91	21.90	18.62
	3RB-Middle (1)	1909.3 (19193)	23.93	22.93	22.02	18.78
		1880 (18900)	23.85	22.94	21.73	18.38
		1850.7 (18607)	23.95	22.59	21.71	18.53
	3RB-Low (0)	1909.3 (19193)	23.75	22.65	21.81	18.66
		1880 (18900)	23.86	22.83	21.71	18.64
		1850.7 (18607)	23.93	22.85	21.78	18.61
	6RB (0)	1909.3 (19193)	22.90	22.01	20.92	18.61
		1880 (18900)	22.73	21.80	21.05	18.69
		1850.7 (18607)	22.85	21.95	20.70	18.59
3MHz	1RB-High (14)	1908.5 (19185)	23.81	23.02	22.06	18.54
		1880 (18900)	23.87	22.85	21.88	18.69
		1851.5 (18615)	23.78	22.86	21.77	18.74
	1RB-Middle (7)	1908.5 (19185)	23.94	22.89	22.15	18.82
		1880 (18900)	24.01	22.73	21.73	18.51
		1851.5 (18615)	23.77	22.79	21.65	18.41
	1RB-Low (0)	1908.5 (19185)	23.80	22.78	21.69	18.72
		1880 (18900)	23.91	22.66	21.78	18.85
		1851.5 (18615)	23.88	22.75	21.78	18.73
	8RB-High (7)	1908.5 (19185)	22.79	21.71	20.92	18.57
		1880 (18900)	22.86	21.58	20.62	18.78
		1851.5 (18615)	22.85	21.94	20.89	18.67
	8RB-Middle (4)	1908.5 (19185)	22.97	21.98	21.05	18.44
		1880 (18900)	22.94	21.72	20.77	18.58
		1851.5 (18615)	22.76	21.67	20.81	18.72
	8RB-Low (0)	1908.5 (19185)	22.83	21.73	20.87	18.64
		1880 (18900)	22.89	21.92	20.85	18.59
		1851.5 (18615)	22.90	21.88	20.81	18.56
	15RB (0)	1908.5 (19185)	22.99	21.98	20.90	18.53
		1880 (18900)	22.97	21.77	21.07	18.48
		1851.5 (18615)	22.69	21.90	20.76	18.69
5MHz	1RB-High (24)	1907.5 (19175)	24.06	23.03	22.03	18.51
		1880 (18900)	23.69	22.73	21.91	18.64
		1852.5 (18625)	23.78	22.70	21.74	18.65
	1RB-Middle (12)	1907.5 (19175)	23.78	22.77	21.95	18.69
		1880 (18900)	23.82	22.96	22.01	18.41
		1852.5 (18625)	23.74	22.59	21.79	18.47
	1RB-Low (0)	1907.5 (19175)	23.69	22.85	21.82	18.81
		1880 (18900)	23.63	22.70	21.75	18.86

		1852.5 (18625)	23.89	22.83	21.82	18.61
	12RB-High (13)	1907.5 (19175)	22.86	21.60	20.70	18.57
		1880 (18900)	22.80	21.65	20.62	18.66
		1852.5 (18625)	22.84	22.03	20.85	18.60
	12RB-Middle (6)	1907.5 (19175)	22.91	21.84	20.76	18.35
		1880 (18900)	22.88	21.73	20.73	18.60
		1852.5 (18625)	22.85	21.67	20.65	18.77
	12RB-Low (0)	1907.5 (19175)	22.97	21.69	20.76	18.77
		1880 (18900)	23.01	21.68	20.64	18.46
		1852.5 (18625)	22.89	21.98	21.07	18.65
	25RB (0)	1907.5 (19175)	22.73	21.99	20.91	18.54
		1880 (18900)	22.81	21.89	20.85	18.50
		1852.5 (18625)	22.79	21.89	20.82	18.67
10MHz	1RB-High (49)	1905 (19150)	23.83	23.00	21.87	18.77
		1880 (18900)	23.71	22.91	21.89	18.67
		1855 (18650)	23.90	22.93	21.92	18.53
	1RB-Middle (24)	1905 (19150)	23.72	23.00	22.14	18.76
		1880 (18900)	23.91	22.98	21.93	18.52
		1855 (18650)	23.78	22.58	21.87	18.47
	1RB-Low (0)	1905 (19150)	23.81	22.89	21.83	18.55
		1880 (18900)	23.82	22.86	21.59	18.79
		1855 (18650)	23.69	22.65	21.82	18.63
	25RB-High (25)	1905 (19150)	22.91	21.58	20.71	18.53
		1880 (18900)	22.68	21.80	20.64	18.87
		1855 (18650)	22.66	21.80	21.04	18.46
	25RB-Middle (12)	1905 (19150)	22.84	21.77	20.85	18.47
		1880 (18900)	22.72	21.75	20.92	18.58
		1855 (18650)	22.70	21.70	20.80	18.66
	25RB-Low (0)	1905 (19150)	22.80	21.95	20.82	18.83
		1880 (18900)	22.73	21.80	20.62	18.37
		1855 (18650)	22.74	21.83	21.00	18.36
	50RB (0)	1905 (19150)	22.73	21.80	21.01	18.47
		1880 (18900)	22.78	21.97	20.99	18.53
		1855 (18650)	22.82	21.72	20.74	18.61
15MHz	1RB-High (74)	1902.5 (19125)	23.80	22.91	21.93	18.70
		1880 (18900)	23.81	22.76	21.99	18.73
		1857.5 (18675)	23.90	22.92	21.67	18.68
	1RB-Middle (37)	1902.5 (19125)	23.99	22.81	21.96	18.58
		1880 (18900)	23.88	22.96	21.82	18.37
		1857.5 (18675)	23.88	22.60	21.71	18.61
	1RB-Low (0)	1902.5 (19125)	23.82	22.70	21.70	18.77

		1880 (18900)	23.69	22.69	21.59	18.58
		1857.5 (18675)	23.91	22.68	21.83	18.78
	36RB-High (38)	1902.5 (19125)	22.72	21.88	20.79	18.66
		1880 (18900)	22.91	21.80	20.76	18.73
		1857.5 (18675)	22.95	21.80	20.86	18.39
	36RB-Middle (19)	1902.5 (19125)	22.82	22.00	21.03	18.40
		1880 (18900)	22.88	21.81	20.76	18.68
		1857.5 (18675)	22.79	21.66	20.66	18.70
	36RB-Low (0)	1902.5 (19125)	22.88	21.88	20.90	18.86
		1880 (18900)	22.84	21.67	20.69	18.48
		1857.5 (18675)	22.79	21.75	20.99	18.63
	75RB (0)	1902.5 (19125)	22.92	21.76	21.10	18.46
		1880 (18900)	22.75	22.07	20.93	18.56
		1857.5 (18675)	22.91	21.94	20.75	18.44
20MHz	1RB-High (99)	1900 (19100)	23.91	22.96	21.92	18.66
		1880 (18900)	23.84	22.83	21.85	18.67
		1860 (18700)	23.82	22.85	21.78	18.68
	1RB-Middle (50)	1900 (19100)	23.86	22.91	22.01	18.71
		1880 (18900)	23.90	22.88	21.87	18.48
		1860 (18700)	23.83	22.73	21.74	18.55
	1RB-Low (0)	1900 (19100)	23.82	22.79	21.70	18.70
		1880 (18900)	23.78	22.80	21.72	18.72
		1860 (18700)	23.80	22.79	21.74	18.66
	50RB-High (50)	1900 (19100)	22.83	21.73	20.78	18.55
		1880 (18900)	22.82	21.72	20.70	18.74
		1860 (18700)	22.81	21.88	20.94	18.54
	50RB-Middle (25)	1900 (19100)	22.82	21.89	20.91	18.47
		1880 (18900)	22.86	21.76	20.82	18.62
		1860 (18700)	22.80	21.80	20.79	18.73
	50RB-Low (0)	1900 (19100)	22.88	21.80	20.86	18.75
		1880 (18900)	22.87	21.78	20.71	18.47
		1860 (18700)	22.78	21.86	20.96	18.50
	100RB (0)	1900 (19100)	22.85	21.91	20.96	18.50
		1880 (18900)	22.85	21.92	20.95	18.63
		1860 (18700)	22.82	21.86	20.84	18.59

LTE Band2 ANT4 (Power Level D1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	14.34	14.38	14.45	14.20
		1880 (18900)	14.15	14.02	14.22	14.30
		1850.7 (18607)	14.40	14.08	14.28	14.10
	1RB-Middle (3)	1909.3 (19193)	14.19	14.15	14.19	14.31
		1880 (18900)	13.98	14.34	14.05	14.19
		1850.7 (18607)	14.12	14.25	14.40	14.02
	1RB-Low (0)	1909.3 (19193)	14.19	14.29	14.12	14.20
		1880 (18900)	14.16	14.18	14.25	14.29
		1850.7 (18607)	14.30	14.15	14.20	14.24
	3RB-High (3)	1909.3 (19193)	14.31	14.26	14.10	14.06
		1880 (18900)	14.02	14.27	14.14	14.22
		1850.7 (18607)	14.22	13.99	14.26	14.28
	3RB-Middle (1)	1909.3 (19193)	14.01	14.25	14.10	14.03
		1880 (18900)	14.18	14.10	14.15	14.37
		1850.7 (18607)	14.23	14.28	13.99	14.35
	3RB-Low (0)	1909.3 (19193)	14.38	14.35	14.24	14.21
		1880 (18900)	14.19	14.17	14.21	13.97
		1850.7 (18607)	14.29	14.07	14.27	14.43
	6RB (0)	1909.3 (19193)	14.03	14.35	14.21	14.30
		1880 (18900)	14.12	14.06	14.11	14.28
		1850.7 (18607)	14.11	14.17	14.17	14.12
3MHz	1RB-High (14)	1908.5 (19185)	14.44	14.45	14.47	14.32
		1880 (18900)	14.18	14.13	14.22	14.21
		1851.5 (18615)	14.39	14.02	14.21	14.12
	1RB-Middle (7)	1908.5 (19185)	14.13	14.21	14.10	14.26
		1880 (18900)	14.01	14.34	14.10	13.99
		1851.5 (18615)	14.21	14.31	14.22	14.12
	1RB-Low (0)	1908.5 (19185)	14.10	14.14	14.10	14.20
		1880 (18900)	14.15	14.12	14.26	14.26
		1851.5 (18615)	14.22	14.01	14.12	14.19
	8RB-High (7)	1908.5 (19185)	14.26	14.37	14.19	14.07
		1880 (18900)	13.95	14.21	14.24	14.24
		1851.5 (18615)	14.32	14.06	14.40	14.21
	8RB-Middle (4)	1908.5 (19185)	14.06	14.17	14.20	14.13
		1880 (18900)	14.00	13.96	14.30	14.30
		1851.5 (18615)	14.27	14.33	14.06	14.29
	8RB-Low (0)	1908.5 (19185)	14.27	14.24	14.30	14.33
		1880 (18900)	14.03	14.28	14.24	14.10

		1851.5 (18615)	14.18	13.99	14.28	14.32
	15RB (0)	1908.5 (19185)	14.07	14.30	14.11	14.41
		1880 (18900)	14.15	14.13	14.28	14.18
		1851.5 (18615)	14.12	14.10	14.17	14.15
5MHz	1RB-High (24)	1907.5 (19175)	14.45	14.38	14.44	14.20
		1880 (18900)	14.14	14.04	14.22	14.31
		1852.5 (18625)	14.33	14.12	14.32	14.13
	1RB-Middle (12)	1907.5 (19175)	14.30	14.29	14.19	14.18
		1880 (18900)	14.00	14.36	14.16	14.13
		1852.5 (18625)	14.23	14.37	14.35	14.00
	1RB-Low (0)	1907.5 (19175)	14.15	14.29	14.27	14.27
		1880 (18900)	13.96	14.08	14.17	14.21
		1852.5 (18625)	14.24	14.12	14.06	14.19
	12RB-High (13)	1907.5 (19175)	14.39	14.21	14.25	14.04
		1880 (18900)	13.95	14.23	14.16	14.18
		1852.5 (18625)	14.36	14.01	14.37	14.27
	12RB-Middle (6)	1907.5 (19175)	14.10	14.14	14.06	14.11
		1880 (18900)	14.12	14.10	14.20	14.29
		1852.5 (18625)	14.21	14.23	14.00	14.42
	12RB-Low (0)	1907.5 (19175)	14.26	14.33	14.24	14.30
		1880 (18900)	14.07	14.15	14.18	13.96
		1852.5 (18625)	14.27	14.17	14.35	14.39
	25RB (0)	1907.5 (19175)	14.06	14.32	14.18	14.35
		1880 (18900)	13.99	14.18	14.28	14.35
		1852.5 (18625)	14.13	14.20	14.15	14.07
10MHz	1RB-High (49)	1905 (19150)	14.37	14.39	14.49	14.17
		1880 (18900)	14.19	14.01	14.30	14.25
		1855 (18650)	14.34	14.15	14.36	14.08
	1RB-Middle (24)	1905 (19150)	14.23	14.14	14.16	14.33
		1880 (18900)	14.02	14.38	14.11	14.07
		1855 (18650)	14.17	14.33	14.30	14.14
	1RB-Low (0)	1905 (19150)	14.08	14.17	14.17	14.25
		1880 (18900)	14.12	14.08	14.20	14.27
		1855 (18650)	14.33	14.09	14.17	14.20
	25RB-High (25)	1905 (19150)	14.40	14.34	14.11	14.17
		1880 (18900)	14.09	14.28	14.24	14.17
		1855 (18650)	14.31	14.19	14.34	14.18
	25RB-Middle (12)	1905 (19150)	14.06	14.19	14.17	14.23
		1880 (18900)	14.04	14.02	14.16	14.36
		1855 (18650)	14.18	14.38	14.07	14.28
	25RB-Low (0)	1905 (19150)	14.28	14.40	14.42	14.33

		1880 (18900)	14.01	14.08	14.18	14.06
		1855 (18650)	14.25	14.02	14.26	14.35
	50RB (0)	1905 (19150)	14.09	14.33	14.13	14.23
		1880 (18900)	14.15	14.00	14.11	14.24
		1855 (18650)	14.10	14.20	14.10	14.04
15MHz	1RB-High (74)	1902.5 (19125)	14.38	14.51	14.42	14.22
		1880 (18900)	14.08	14.14	14.17	14.16
		1857.5 (18675)	14.25	14.02	14.23	14.19
	1RB-Middle (37)	1902.5 (19125)	14.17	14.12	14.12	14.26
		1880 (18900)	14.14	14.29	14.03	14.05
		1857.5 (18675)	14.12	14.28	14.40	14.11
	1RB-Low (0)	1902.5 (19125)	14.06	14.29	14.12	14.12
		1880 (18900)	14.02	14.10	14.15	14.31
		1857.5 (18675)	14.17	14.08	14.08	14.21
	36RB-High (38)	1902.5 (19125)	14.27	14.19	14.11	13.97
		1880 (18900)	14.01	14.26	14.12	14.30
		1857.5 (18675)	14.33	14.10	14.29	14.10
	36RB-Middle (19)	1902.5 (19125)	14.01	14.26	14.05	14.06
		1880 (18900)	14.16	14.04	14.26	14.41
		1857.5 (18675)	14.22	14.24	14.19	14.31
	36RB-Low (0)	1902.5 (19125)	14.42	14.21	14.34	14.39
		1880 (18900)	14.00	14.27	14.34	14.08
		1857.5 (18675)	14.17	14.12	14.27	14.39
	75RB (0)	1902.5 (19125)	14.13	14.36	14.25	14.35
		1880 (18900)	14.06	14.14	14.12	14.33
		1857.5 (18675)	14.16	14.26	14.17	14.03
20MHz	1RB-High (99)	1900 (19100)	14.37	14.43	14.41	14.23
		1880 (18900)	14.16	14.10	14.21	14.22
		1860 (18700)	14.33	14.07	14.26	14.11
	1RB-Middle (50)	1900 (19100)	14.21	14.22	14.19	14.27
		1880 (18900)	14.07	14.32	14.07	14.09
		1860 (18700)	14.13	14.27	14.31	14.10
	1RB-Low (0)	1900 (19100)	14.16	14.24	14.19	14.20
		1880 (18900)	14.06	14.08	14.21	14.25
		1860 (18700)	14.25	14.05	14.10	14.18
	50RB-High (50)	1900 (19100)	14.31	14.27	14.16	14.07
		1880 (18900)	14.05	14.19	14.14	14.24
		1860 (18700)	14.28	14.09	14.34	14.20
	50RB-Middle (25)	1900 (19100)	14.06	14.16	14.12	14.13
		1880 (18900)	14.08	14.05	14.25	14.35
		1860 (18700)	14.27	14.29	14.09	14.35

	50RB-Low (0)	1900 (19100)	14.34	14.31	14.33	14.31
		1880 (18900)	14.10	14.18	14.26	14.06
		1860 (18700)	14.25	14.07	14.35	14.35
	100RB (0)	1900 (19100)	14.13	14.33	14.21	14.31
		1880 (18900)	14.07	14.10	14.20	14.27
		1860 (18700)	14.17	14.18	14.14	14.10

LTE Band2 ANT4 (Power Level E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	17.81	16.99	17.84	17.78
		1880 (18900)	17.69	17.52	17.63	17.64
		1850.7 (18607)	17.51	17.71	17.63	17.46
	1RB-Middle (3)	1909.3 (19193)	17.56	17.71	17.81	17.74
		1880 (18900)	17.63	17.66	17.80	17.74
		1850.7 (18607)	17.88	17.73	17.68	17.65
	1RB-Low (0)	1909.3 (19193)	17.57	17.50	17.54	17.52
		1880 (18900)	17.62	17.83	17.67	17.63
		1850.7 (18607)	17.64	17.83	17.65	17.57
	3RB-High (3)	1909.3 (19193)	17.67	17.62	17.79	17.80
		1880 (18900)	17.54	17.88	17.55	17.66
		1850.7 (18607)	17.55	17.72	17.73	17.75
	3RB-Middle (1)	1909.3 (19193)	17.73	17.72	17.85	17.58
		1880 (18900)	17.56	17.85	17.84	17.68
		1850.7 (18607)	17.59	17.66	17.56	17.75
	3RB-Low (0)	1909.3 (19193)	17.86	17.75	17.90	17.82
		1880 (18900)	17.59	17.74	17.82	17.66
		1850.7 (18607)	17.88	17.70	17.70	17.79
	6RB (0)	1909.3 (19193)	17.67	17.73	17.75	17.63
		1880 (18900)	17.53	17.85	17.58	17.86
		1850.7 (18607)	17.62	17.64	17.51	17.61
3MHz	1RB-High (14)	1908.5 (19185)	17.90	17.04	17.97	17.78
		1880 (18900)	17.68	17.68	17.69	17.61
		1851.5 (18615)	17.51	17.55	17.64	17.52
	1RB-Middle (7)	1908.5 (19185)	17.46	17.83	17.86	17.92
		1880 (18900)	17.55	17.70	17.79	17.64
		1851.5 (18615)	17.74	17.81	17.67	17.77
	1RB-Low (0)	1908.5 (19185)	17.46	17.57	17.66	17.61
		1880 (18900)	17.53	17.81	17.74	17.63
		1851.5 (18615)	17.66	17.84	17.64	17.58
	8RB-High (7)	1908.5 (19185)	17.74	17.67	17.84	17.68

		1880 (18900)	17.71	17.73	17.69	17.65
		1851.5 (18615)	17.61	17.72	17.78	17.58
	8RB-Middle (4)	1908.5 (19185)	17.80	17.82	17.81	17.55
		1880 (18900)	17.62	17.89	17.90	17.63
		1851.5 (18615)	17.67	17.55	17.58	17.84
	8RB-Low (0)	1908.5 (19185)	17.86	17.81	17.83	17.85
		1880 (18900)	17.68	17.64	17.80	17.63
		1851.5 (18615)	17.87	17.78	17.70	17.87
	15RB (0)	1908.5 (19185)	17.74	17.68	17.74	17.74
		1880 (18900)	17.48	17.86	17.55	17.85
		1851.5 (18615)	17.54	17.72	17.45	17.52
5MHz	1RB-High (24)	1907.5 (19175)	17.81	17.10	17.91	17.72
		1880 (18900)	17.63	17.54	17.76	17.66
		1852.5 (18625)	17.49	17.64	17.65	17.51
	1RB-Middle (12)	1907.5 (19175)	17.54	17.74	17.70	17.89
		1880 (18900)	17.48	17.61	17.83	17.65
		1852.5 (18625)	17.74	17.79	17.68	17.60
	1RB-Low (0)	1907.5 (19175)	17.52	17.56	17.50	17.51
		1880 (18900)	17.49	17.67	17.71	17.48
		1852.5 (18625)	17.66	17.92	17.54	17.51
	12RB-High (13)	1907.5 (19175)	17.75	17.58	17.92	17.83
		1880 (18900)	17.70	17.88	17.59	17.49
		1852.5 (18625)	17.57	17.60	17.80	17.73
	12RB-Middle (6)	1907.5 (19175)	17.63	17.77	17.92	17.61
		1880 (18900)	17.68	17.74	17.76	17.50
		1852.5 (18625)	17.62	17.60	17.74	17.90
	12RB-Low (0)	1907.5 (19175)	17.87	17.78	17.76	17.78
		1880 (18900)	17.71	17.77	17.86	17.63
		1852.5 (18625)	17.93	17.70	17.69	17.87
	25RB (0)	1907.5 (19175)	17.60	17.61	17.73	17.60
		1880 (18900)	17.60	17.75	17.61	17.88
		1852.5 (18625)	17.55	17.73	17.46	17.55
10MHz	1RB-High (49)	1905 (19150)	17.90	17.03	17.90	17.84
		1880 (18900)	17.54	17.55	17.75	17.64
		1855 (18650)	17.57	17.70	17.74	17.47
	1RB-Middle (24)	1905 (19150)	17.65	17.74	17.85	17.74
		1880 (18900)	17.66	17.77	17.86	17.74
		1855 (18650)	17.82	17.92	17.62	17.60
	1RB-Low (0)	1905 (19150)	17.46	17.60	17.67	17.53
		1880 (18900)	17.59	17.80	17.72	17.63
		1855 (18650)	17.62	17.94	17.64	17.49

	25RB-High (25)	1905 (19150)	17.72	17.72	17.80	17.73
		1880 (18900)	17.67	17.81	17.55	17.61
		1855 (18650)	17.51	17.70	17.77	17.63
	25RB-Middle (12)	1905 (19150)	17.63	17.66	17.91	17.65
		1880 (18900)	17.51	17.78	17.80	17.60
		1855 (18650)	17.66	17.56	17.71	17.89
	25RB-Low (0)	1905 (19150)	17.91	17.85	17.85	17.73
		1880 (18900)	17.60	17.62	17.83	17.76
		1855 (18650)	17.91	17.84	17.70	17.84
	50RB (0)	1905 (19150)	17.66	17.59	17.73	17.65
		1880 (18900)	17.51	17.88	17.61	17.79
		1855 (18650)	17.74	17.64	17.54	17.52
15MHz	1RB-High (74)	1902.5 (19125)	17.84	17.08	17.82	17.65
		1880 (18900)	17.63	17.49	17.63	17.59
		1857.5 (18675)	17.58	17.67	17.65	17.57
	1RB-Middle (37)	1902.5 (19125)	17.55	17.79	17.85	17.85
		1880 (18900)	17.50	17.61	17.75	17.83
		1857.5 (18675)	17.77	17.86	17.69	17.61
	1RB-Low (0)	1902.5 (19125)	17.59	17.65	17.56	17.56
		1880 (18900)	17.46	17.69	17.67	17.55
		1857.5 (18675)	17.74	17.75	17.51	17.65
	36RB-High (38)	1902.5 (19125)	17.78	17.62	17.75	17.82
		1880 (18900)	17.72	17.80	17.54	17.51
		1857.5 (18675)	17.61	17.69	17.63	17.69
	36RB-Middle (19)	1902.5 (19125)	17.66	17.70	17.75	17.57
		1880 (18900)	17.67	17.89	17.86	17.59
		1857.5 (18675)	17.52	17.61	17.66	17.79
	36RB-Low (0)	1902.5 (19125)	17.81	17.93	17.86	17.83
		1880 (18900)	17.68	17.80	17.90	17.63
		1857.5 (18675)	17.80	17.82	17.67	17.74
	75RB (0)	1902.5 (19125)	17.73	17.65	17.84	17.64
		1880 (18900)	17.49	17.83	17.54	17.88
		1857.5 (18675)	17.55	17.68	17.54	17.57
20MHz	1RB-High (99)	1900 (19100)	17.87	17.01	17.92	17.75
		1880 (18900)	17.63	17.58	17.71	17.69
		1860 (18700)	17.56	17.64	17.68	17.55
	1RB-Middle (50)	1900 (19100)	17.55	17.75	17.77	17.84
		1880 (18900)	17.57	17.69	17.77	17.73
		1860 (18700)	17.78	17.82	17.63	17.70
	1RB-Low (0)	1900 (19100)	17.55	17.60	17.59	17.60
		1880 (18900)	17.55	17.76	17.74	17.55

		1860 (18700)	17.71	17.85	17.56	17.57
	50RB-High (50)	1900 (19100)	17.70	17.67	17.85	17.78
		1880 (18900)	17.64	17.83	17.62	17.59
		1860 (18700)	17.60	17.64	17.73	17.68
	50RB-Middle (25)	1900 (19100)	17.71	17.73	17.82	17.60
		1880 (18900)	17.60	17.81	17.83	17.60
		1860 (18700)	17.59	17.59	17.65	17.85
	50RB-Low (0)	1900 (19100)	17.86	17.84	17.85	17.83
		1880 (18900)	17.68	17.72	17.84	17.67
		1860 (18700)	17.85	17.78	17.72	17.84
	100RB (0)	1900 (19100)	17.66	17.63	17.79	17.65
		1880 (18900)	17.55	17.83	17.63	17.80
		1860 (18700)	17.64	17.74	17.55	17.59

LTE Band7 ANT0 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	24.05	23.11	22.19	18.98
		2535 (21100)	23.83	22.97	21.91	18.78
		2502.5 (20775)	23.58	22.67	21.73	18.75
	1RB-Middle (12)	2567.5 (21425)	23.89	22.79	21.78	18.82
		2535 (21100)	23.86	22.86	21.82	18.82
		2502.5 (20775)	23.46	22.57	21.74	18.75
	1RB-Low (0)	2567.5 (21425)	23.89	22.83	21.78	18.66
		2535 (21100)	23.67	22.71	21.67	18.80
		2502.5 (20775)	23.58	22.64	21.75	18.80
	12RB-High (13)	2567.5 (21425)	22.92	21.85	20.81	18.82
		2535 (21100)	22.83	21.66	20.80	18.88
		2502.5 (20775)	22.74	21.75	20.63	18.91
	12RB-Middle (6)	2567.5 (21425)	22.89	21.97	20.72	18.86
		2535 (21100)	22.90	21.86	20.72	18.63
		2502.5 (20775)	22.73	21.67	20.73	18.64
	12RB-Low (0)	2567.5 (21425)	22.87	21.84	20.79	18.76
		2535 (21100)	22.71	21.67	20.96	18.65
		2502.5 (20775)	22.65	21.60	20.58	18.79
	25RB (0)	2567.5 (21425)	22.94	21.78	21.04	18.97
		2535 (21100)	22.71	21.78	20.94	18.87
		2502.5 (20775)	22.60	21.76	20.74	18.67
10MHz	1RB-High (49)	2565 (21400)	24.02	23.16	22.14	18.83
		2535 (21100)	23.80	22.79	21.89	18.68
		2505 (20800)	23.72	22.79	21.48	18.89

	1RB-Middle (24)	2565 (21400)	24.11	23.02	21.89	18.82
		2535 (21100)	23.89	22.72	22.06	18.85
		2505 (20800)	23.75	22.62	21.63	18.96
	1RB-Low (0)	2565 (21400)	23.97	22.71	21.75	18.88
		2535 (21100)	23.62	22.90	21.88	18.77
		2505 (20800)	23.53	22.85	21.65	18.74
	25RB-High (25)	2565 (21400)	23.09	22.00	20.84	18.82
		2535 (21100)	22.94	21.68	20.80	18.92
		2505 (20800)	22.73	21.72	20.61	18.63
	25RB-Middle (12)	2565 (21400)	23.08	21.77	20.74	18.76
		2535 (21100)	22.66	21.80	20.91	18.64
		2505 (20800)	22.71	21.83	20.69	18.65
	25RB-Low (0)	2565 (21400)	22.84	21.96	20.85	18.66
		2535 (21100)	22.66	21.61	20.93	18.89
		2505 (20800)	22.55	21.53	20.67	18.93
	50RB (0)	2565 (21400)	23.06	22.05	21.05	18.94
		2535 (21100)	22.69	21.89	20.77	18.93
		2505 (20800)	22.62	21.62	20.55	18.76
15MHz	1RB-High (74)	2562.5 (21375)	23.91	23.18	22.02	18.96
		2535 (21100)	23.86	22.83	22.05	18.76
		2507.5 (20825)	23.80	22.58	21.62	18.92
	1RB-Middle (37)	2562.5 (21375)	23.98	22.85	21.74	18.66
		2535 (21100)	23.83	23.02	22.09	18.76
		2507.5 (20825)	23.51	22.74	21.77	18.82
	1RB-Low (0)	2562.5 (21375)	23.77	22.73	21.67	18.82
		2535 (21100)	23.69	22.65	21.62	18.82
		2507.5 (20825)	23.54	22.65	21.67	18.87
	36RB-High (38)	2562.5 (21375)	22.85	21.91	20.76	18.91
		2535 (21100)	22.90	21.70	20.97	18.78
		2507.5 (20825)	22.56	21.58	20.48	18.74
	36RB-Middle (19)	2562.5 (21375)	22.97	21.76	20.78	18.81
		2535 (21100)	22.72	21.86	20.88	18.67
		2507.5 (20825)	22.66	21.61	20.75	18.76
	36RB-Low (0)	2562.5 (21375)	22.90	21.91	20.85	18.77
		2535 (21100)	22.66	21.82	20.83	18.69
		2507.5 (20825)	22.73	21.71	20.73	18.92
	75RB (0)	2562.5 (21375)	23.04	21.93	20.91	18.82
		2535 (21100)	22.68	21.72	20.79	19.00
		2507.5 (20825)	22.78	21.63	20.78	18.90
20MHz	1RB-High (99)	2560 (21350)	24.01	23.10	22.09	18.91
		2535 (21100)	23.89	22.87	21.90	18.65

		2510 (20850)	23.70	22.64	21.61	18.86
	1RB-Middle (50)	2560 (21350)	23.99	22.92	21.82	18.68
		2535 (21100)	23.81	22.87	21.95	18.75
		2510 (20850)	23.61	22.69	21.65	18.83
	1RB-Low (0)	2560 (21350)	23.88	22.83	21.79	18.80
		2535 (21100)	23.74	22.75	21.74	18.79
		2510 (20850)	23.66	22.71	21.62	18.86
	50RB-High (50)	2560 (21350)	22.99	21.91	20.84	18.78
		2535 (21100)	22.80	21.79	20.83	18.80
		2510 (20850)	22.68	21.62	20.55	18.77
	50RB-Middle (25)	2560 (21350)	23.01	21.91	20.85	18.90
		2535 (21100)	22.78	21.83	20.82	18.70
		2510 (20850)	22.63	21.73	20.75	18.75
	50RB-Low (0)	2560 (21350)	22.94	21.90	20.91	18.67
		2535 (21100)	22.73	21.76	20.84	18.78
		2510 (20850)	22.64	21.65	20.72	18.84
	100RB (0)	2560 (21350)	22.95	21.93	21.00	18.84
		2535 (21100)	22.79	21.77	20.83	18.88
		2510 (20850)	22.66	21.67	20.66	18.75

LTE Band7 ANT0 (Power Level D1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	16.63	16.57	16.60	16.41
		2535 (21100)	16.56	16.42	16.52	16.39
		2502.5 (20775)	16.39	16.35	16.57	16.46
	1RB-Middle (12)	2567.5 (21425)	16.32	16.20	16.28	16.37
		2535 (21100)	16.34	16.35	16.38	16.65
		2502.5 (20775)	16.33	16.17	16.33	16.38
	1RB-Low (0)	2567.5 (21425)	16.29	16.34	16.51	16.38
		2535 (21100)	16.27	16.27	16.42	16.27
		2502.5 (20775)	16.52	16.43	16.36	16.40
	12RB-High (13)	2567.5 (21425)	16.15	16.51	16.32	16.31
		2535 (21100)	16.31	16.38	16.50	16.34
		2502.5 (20775)	16.39	16.52	16.41	16.39
	12RB-Middle (6)	2567.5 (21425)	16.56	16.40	16.50	16.56
		2535 (21100)	16.17	16.41	16.52	16.34
		2502.5 (20775)	16.52	16.29	16.37	16.48
	12RB-Low (0)	2567.5 (21425)	16.39	16.37	16.37	16.21
		2535 (21100)	16.21	16.31	16.25	16.46
		2502.5 (20775)	16.42	16.28	16.44	16.42

	25RB (0)	2567.5 (21425)	16.27	16.43	16.51	16.53
		2535 (21100)	16.39	16.50	16.47	16.17
		2502.5 (20775)	16.31	16.39	16.57	16.45
10MHz	1RB-High (49)	2565 (21400)	16.68	16.72	16.48	16.53
		2535 (21100)	16.62	16.55	16.52	16.29
		2505 (20800)	16.41	16.33	16.39	16.51
	1RB-Middle (24)	2565 (21400)	16.20	16.30	16.31	16.36
		2535 (21100)	16.31	16.28	16.40	16.59
		2505 (20800)	16.52	16.19	16.38	16.32
	1RB-Low (0)	2565 (21400)	16.30	16.50	16.59	16.29
		2535 (21100)	16.24	16.40	16.55	16.16
		2505 (20800)	16.42	16.49	16.37	16.42
	25RB-High (25)	2565 (21400)	16.25	16.32	16.43	16.46
		2535 (21100)	16.19	16.30	16.47	16.27
		2505 (20800)	16.29	16.48	16.33	16.34
	25RB-Middle (12)	2565 (21400)	16.41	16.59	16.56	16.46
		2535 (21100)	16.31	16.35	16.49	16.39
		2505 (20800)	16.42	16.33	16.44	16.38
	25RB-Low (0)	2565 (21400)	16.41	16.41	16.45	16.27
		2535 (21100)	16.32	16.34	16.19	16.50
		2505 (20800)	16.49	16.29	16.39	16.53
	50RB (0)	2565 (21400)	16.25	16.50	16.42	16.62
		2535 (21100)	16.41	16.40	16.36	16.36
		2505 (20800)	16.29	16.54	16.43	16.46
15MHz	1RB-High (74)	2562.5 (21375)	16.65	16.54	16.60	16.45
		2535 (21100)	16.45	16.49	16.58	16.39
		2507.5 (20825)	16.50	16.25	16.56	16.55
	1RB-Middle (37)	2562.5 (21375)	16.24	16.23	16.35	16.28
		2535 (21100)	16.38	16.22	16.31	16.48
		2507.5 (20825)	16.36	16.15	16.35	16.34
	1RB-Low (0)	2562.5 (21375)	16.19	16.47	16.50	16.38
		2535 (21100)	16.26	16.28	16.43	16.19
		2507.5 (20825)	16.46	16.39	16.41	16.36
	36RB-High (38)	2562.5 (21375)	16.18	16.40	16.25	16.36
		2535 (21100)	16.27	16.41	16.39	16.38
		2507.5 (20825)	16.25	16.52	16.48	16.43
	36RB-Middle (19)	2562.5 (21375)	16.50	16.47	16.38	16.57
		2535 (21100)	16.16	16.36	16.39	16.39
		2507.5 (20825)	16.50	16.29	16.45	16.48
	36RB-Low (0)	2562.5 (21375)	16.38	16.40	16.38	16.16
		2535 (21100)	16.36	16.42	16.22	16.44

		2507.5 (20825)	16.36	16.33	16.41	16.51
	75RB (0)	2562.5 (21375)	16.28	16.39	16.43	16.55
		2535 (21100)	16.34	16.36	16.38	16.17
		2507.5 (20825)	16.27	16.44	16.51	16.51
20MHz	1RB-High (99)	2560 (21350)	16.58	16.62	16.56	16.43
		2535 (21100)	16.55	16.48	16.53	16.37
		2510 (20850)	16.41	16.32	16.49	16.47
	1RB-Middle (50)	2560 (21350)	16.28	16.26	16.38	16.38
		2535 (21100)	16.41	16.26	16.33	16.55
		2510 (20850)	16.43	16.25	16.30	16.32
	1RB-Low (0)	2560 (21350)	16.25	16.41	16.53	16.37
		2535 (21100)	16.27	16.36	16.48	16.26
		2510 (20850)	16.52	16.41	16.42	16.44
	50RB-High (50)	2560 (21350)	16.25	16.42	16.33	16.41
		2535 (21100)	16.26	16.33	16.48	16.34
		2510 (20850)	16.33	16.43	16.43	16.43
	50RB-Middle (25)	2560 (21350)	16.51	16.50	16.48	16.49
		2535 (21100)	16.25	16.39	16.44	16.30
		2510 (20850)	16.45	16.36	16.36	16.47
	50RB-Low (0)	2560 (21350)	16.35	16.46	16.37	16.25
		2535 (21100)	16.26	16.33	16.28	16.47
		2510 (20850)	16.46	16.33	16.45	16.44
	100RB (0)	2560 (21350)	16.30	16.43	16.41	16.52
		2535 (21100)	16.38	16.40	16.40	16.27
		2510 (20850)	16.25	16.48	16.48	16.42

LTE Band7 ANT0 (Power Level E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	13.62	13.59	13.53	13.47
		2535 (21100)	13.47	13.33	13.33	13.50
		2502.5 (20775)	13.36	13.48	13.48	13.59
	1RB-Middle (12)	2567.5 (21425)	13.23	13.50	13.62	13.54
		2535 (21100)	13.38	13.46	13.27	13.54
		2502.5 (20775)	13.52	13.35	13.46	13.28
	1RB-Low (0)	2567.5 (21425)	13.25	13.58	13.55	13.58
		2535 (21100)	13.41	13.45	13.35	13.40
		2502.5 (20775)	13.55	13.57	13.52	13.27
	12RB-High (13)	2567.5 (21425)	13.31	13.31	13.25	13.22
		2535 (21100)	13.22	13.42	13.29	13.45
		2502.5 (20775)	13.43	13.58	13.23	13.41

	12RB-Middle (6)	2567.5 (21425)	13.53	13.45	13.47	13.40
		2535 (21100)	13.57	13.22	13.50	13.35
		2502.5 (20775)	13.44	13.34	13.54	13.26
	12RB-Low (0)	2567.5 (21425)	13.30	13.58	13.47	13.37
		2535 (21100)	13.38	13.45	13.19	13.24
		2502.5 (20775)	13.53	13.48	13.44	13.32
	25RB (0)	2567.5 (21425)	13.28	13.36	13.31	13.47
		2535 (21100)	13.49	13.49	13.43	13.34
		2502.5 (20775)	13.61	13.29	13.49	13.38
10MHz	1RB-High (49)	2565 (21400)	13.54	13.49	13.50	13.37
		2535 (21100)	13.44	13.51	13.25	13.43
		2505 (20800)	13.48	13.48	13.33	13.42
	1RB-Middle (24)	2565 (21400)	13.30	13.49	13.57	13.48
		2535 (21100)	13.38	13.40	13.42	13.55
		2505 (20800)	13.55	13.35	13.36	13.31
	1RB-Low (0)	2565 (21400)	13.39	13.59	13.42	13.55
		2535 (21100)	13.34	13.41	13.44	13.38
		2505 (20800)	13.52	13.53	13.58	13.19
	25RB-High (25)	2565 (21400)	13.44	13.36	13.29	13.26
		2535 (21100)	13.26	13.46	13.31	13.41
		2505 (20800)	13.50	13.56	13.23	13.27
	25RB-Middle (12)	2565 (21400)	13.46	13.56	13.58	13.39
		2535 (21100)	13.44	13.29	13.54	13.27
		2505 (20800)	13.33	13.31	13.50	13.29
	25RB-Low (0)	2565 (21400)	13.33	13.47	13.42	13.49
		2535 (21100)	13.35	13.33	13.26	13.31
		2505 (20800)	13.42	13.48	13.48	13.37
	50RB (0)	2565 (21400)	13.30	13.40	13.40	13.58
		2535 (21100)	13.33	13.47	13.31	13.38
		2505 (20800)	13.54	13.18	13.51	13.55
15MHz	1RB-High (74)	2562.5 (21375)	13.47	13.48	13.55	13.38
		2535 (21100)	13.43	13.36	13.26	13.37
		2507.5 (20825)	13.33	13.54	13.38	13.42
	1RB-Middle (37)	2562.5 (21375)	13.25	13.47	13.56	13.54
		2535 (21100)	13.41	13.56	13.23	13.50
		2507.5 (20825)	13.48	13.43	13.44	13.25
	1RB-Low (0)	2562.5 (21375)	13.37	13.59	13.43	13.44
		2535 (21100)	13.43	13.36	13.39	13.25
		2507.5 (20825)	13.49	13.45	13.48	13.30
	36RB-High (38)	2562.5 (21375)	13.26	13.25	13.36	13.24
		2535 (21100)	13.25	13.48	13.34	13.31

		2507.5 (20825)	13.51	13.51	13.35	13.27
	36RB-Middle (19)	2562.5 (21375)	13.42	13.43	13.44	13.41
		2535 (21100)	13.46	13.34	13.49	13.26
		2507.5 (20825)	13.40	13.32	13.64	13.27
	36RB-Low (0)	2562.5 (21375)	13.24	13.56	13.54	13.34
		2535 (21100)	13.37	13.41	13.17	13.31
		2507.5 (20825)	13.42	13.47	13.40	13.27
	75RB (0)	2562.5 (21375)	13.29	13.32	13.21	13.54
		2535 (21100)	13.50	13.46	13.31	13.37
		2507.5 (20825)	13.44	13.37	13.50	13.39
20MHz	1RB-High (99)	2560 (21350)	13.53	13.58	13.49	13.41
		2535 (21100)	13.40	13.41	13.31	13.44
		2510 (20850)	13.39	13.50	13.43	13.49
	1RB-Middle (50)	2560 (21350)	13.30	13.55	13.53	13.55
		2535 (21100)	13.34	13.46	13.32	13.45
		2510 (20850)	13.47	13.38	13.37	13.29
	1RB-Low (0)	2560 (21350)	13.30	13.52	13.49	13.50
		2535 (21100)	13.40	13.37	13.45	13.34
		2510 (20850)	13.51	13.55	13.53	13.26
	50RB-High (50)	2560 (21350)	13.34	13.31	13.30	13.25
		2535 (21100)	13.32	13.42	13.34	13.35
		2510 (20850)	13.47	13.49	13.27	13.37
	50RB-Middle (25)	2560 (21350)	13.49	13.47	13.48	13.46
		2535 (21100)	13.47	13.32	13.49	13.31
		2510 (20850)	13.38	13.35	13.54	13.30
	50RB-Low (0)	2560 (21350)	13.29	13.50	13.49	13.41
		2535 (21100)	13.28	13.40	13.25	13.30
		2510 (20850)	13.47	13.52	13.44	13.35
	100RB (0)	2560 (21350)	13.38	13.32	13.31	13.50
		2535 (21100)	13.41	13.52	13.41	13.31
		2510 (20850)	13.53	13.28	13.50	13.45

LTE Band41 ANT0 (Power Level A1/B1/D1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	25.32	24.47	23.18	19.94
		2640.3(41093)	25.01	24.35	23.36	20.19
		2593 (40620)	24.96	23.93	22.86	20.23
		2545.8(40148)	24.76	23.71	22.59	20.21
		2498.5 (39675)	24.44	23.69	22.62	20.30
	1RB-Middle (12)	2687.5 (41565)	25.32	24.10	23.12	19.87

		2640.3(41093)	25.01	24.16	23.11	20.27
		2593 (40620)	24.93	23.93	22.99	20.28
		2545.8(40148)	24.69	23.75	22.72	20.02
		2498.5 (39675)	24.61	23.66	22.65	20.13
	1RB-Low (0)	2687.5 (41565)	25.24	24.40	23.06	19.82
		2640.3(41093)	25.17	24.15	23.18	20.10
		2593 (40620)	24.86	23.93	22.74	20.22
		2545.8(40148)	24.81	23.67	22.80	20.14
		2498.5 (39675)	24.33	23.51	22.62	20.04
	12RB-High (13)	2687.5 (41565)	24.24	23.20	22.31	20.33
		2640.3(41093)	24.16	23.18	22.04	20.15
		2593 (40620)	23.91	22.95	22.08	20.33
		2545.8(40148)	23.82	22.73	21.65	20.00
		2498.5 (39675)	23.43	22.59	21.65	20.06
	12RB-Middle (6)	2687.5 (41565)	24.36	23.21	22.30	19.97
		2640.3(41093)	24.20	23.07	22.17	20.14
		2593 (40620)	24.00	22.86	22.02	20.00
		2545.8(40148)	23.59	22.73	21.51	20.10
		2498.5 (39675)	23.59	22.60	21.37	20.31
	12RB-Low (0)	2687.5 (41565)	24.31	23.16	22.14	20.15
		2640.3(41093)	24.04	23.08	21.96	20.27
		2593 (40620)	23.80	23.01	21.79	19.94
		2545.8(40148)	23.84	22.75	21.84	19.94
		2498.5 (39675)	23.52	22.64	21.44	20.15
	25RB (0)	2687.5 (41565)	24.13	23.15	22.39	20.32
		2640.3(41093)	24.15	23.02	22.06	20.22
		2593 (40620)	23.99	22.83	21.98	20.10
		2545.8(40148)	23.81	22.71	21.56	20.20
		2498.5 (39675)	23.59	22.35	21.56	20.21
10MHz	1RB-High (49)	2685 (41540)	25.38	24.22	23.30	20.04
		2639(41080)	25.18	24.22	23.23	20.12
		2593 (40620)	24.82	23.87	22.93	20.19
		2547(40160)	24.62	23.75	22.70	20.22
		2501 (39700)	24.47	23.49	22.46	20.37
	1RB-Middle (24)	2685 (41540)	25.34	24.22	23.34	19.84
		2639(41080)	25.26	24.09	23.08	20.10
		2593 (40620)	25.08	23.94	22.94	20.13
		2547(40160)	24.68	23.63	22.67	20.16
		2501 (39700)	24.65	23.69	22.57	20.22
	1RB-Low (0)	2685 (41540)	25.37	24.13	23.19	19.87
		2639(41080)	25.21	24.30	23.04	19.90

		2593 (40620)	24.96	23.90	22.66	20.25
		2547(40160)	24.80	23.81	22.59	20.31
		2501 (39700)	24.54	23.62	22.56	20.06
	25RB-High (25)	2685 (41540)	24.40	23.15	22.26	20.31
		2639(41080)	24.03	23.06	22.17	19.96
		2593 (40620)	23.88	23.15	22.09	20.23
		2547(40160)	23.73	22.60	21.67	19.88
		2501 (39700)	23.69	22.50	21.55	20.00
	25RB-Middle (12)	2685 (41540)	24.22	23.14	22.21	20.11
		2639(41080)	23.95	23.18	22.19	20.23
		2593 (40620)	23.88	22.81	21.82	20.04
		2547(40160)	23.64	22.65	21.67	20.16
		2501 (39700)	23.64	22.43	21.36	20.29
	25RB-Low (0)	2685 (41540)	24.14	23.35	22.12	20.17
		2639(41080)	24.09	23.07	21.92	19.98
		2593 (40620)	23.90	23.11	21.86	19.97
		2547(40160)	23.82	22.69	21.78	19.90
		2501 (39700)	23.58	22.49	21.62	20.24
	50RB (0)	2685 (41540)	24.33	23.13	22.28	20.34
		2639(41080)	23.94	22.97	22.19	20.22
		2593 (40620)	23.89	22.82	21.91	20.07
		2547(40160)	23.75	22.57	21.69	20.27
		2501 (39700)	23.51	22.36	21.45	20.16
15MHz	1RB-High (74)	2682.5 (41515)	25.28	24.31	23.20	20.12
		2637.8(41068)	25.28	24.19	23.36	20.11
		2593 (40620)	24.99	24.01	23.10	20.03
		2548.3(40173)	24.78	23.79	22.59	20.21
		2503.5 (39725)	24.43	23.62	22.45	20.29
	1RB-Middle (37)	2682.5 (41515)	25.27	24.19	23.13	19.84
		2637.8(41068)	25.02	24.27	23.20	20.03
		2593 (40620)	25.05	24.01	22.96	20.16
		2548.3(40173)	24.59	23.81	22.80	20.21
		2503.5 (39725)	24.54	23.69	22.35	20.22
	1RB-Low (0)	2682.5 (41515)	25.36	24.35	23.34	20.08
		2637.8(41068)	25.05	24.22	23.20	20.08
		2593 (40620)	24.88	23.75	22.65	20.13
		2548.3(40173)	24.59	23.75	22.62	20.19
		2503.5 (39725)	24.47	23.45	22.75	20.14
	36RB-High (38)	2682.5 (41515)	24.24	23.16	22.39	20.29
		2637.8(41068)	24.14	23.02	22.25	20.01
		2593 (40620)	23.87	23.14	21.82	20.09

		2548.3(40173)	23.78	22.61	21.59	19.93
		2503.5 (39725)	23.42	22.75	21.62	20.03
	36RB-Middle (19)	2682.5 (41515)	24.36	23.27	22.36	20.19
		2637.8(41068)	24.04	23.19	22.31	20.24
		2593 (40620)	23.95	22.82	22.09	20.21
		2548.3(40173)	23.60	22.67	21.64	20.00
		2503.5 (39725)	23.60	22.35	21.35	20.22
	36RB-Low (0)	2682.5 (41515)	24.24	23.26	22.25	20.06
		2637.8(41068)	23.98	23.08	21.92	20.18
		2593 (40620)	23.96	22.82	21.93	20.01
		2548.3(40173)	23.76	22.82	21.78	19.99
		2503.5 (39725)	23.55	22.51	21.56	20.34
	75RB (0)	2682.5 (41515)	24.34	23.35	22.38	20.19
		2637.8(41068)	24.17	23.09	21.98	20.29
		2593 (40620)	23.93	22.84	21.97	20.26
		2548.3(40173)	23.68	22.74	21.58	20.25
		2503.5 (39725)	23.44	22.37	21.32	19.96
20MHz	1RB-High (99)	2680 (41490)	25.31	24.37	23.33	20.01
		2636.5(41055)	25.15	24.25	23.31	20.23
		2593 (40620)	24.93	24.01	22.97	20.13
		2549.5(40185)	24.73	23.76	22.74	20.08
		2506 (39750)	24.58	23.63	22.57	20.22
	1RB-Middle (50)	2680 (41490)	25.30	24.20	23.20	19.95
		2636.5(41055)	25.13	24.12	23.07	20.18
		2593 (40620)	24.98	23.95	22.97	20.19
		2549.5(40185)	24.72	23.74	22.73	20.13
		2506 (39750)	24.53	23.55	22.50	20.15
	1RB-Low (0)	2680 (41490)	25.26	24.25	23.21	19.95
		2636.5(41055)	25.11	24.16	23.09	20.01
		2593 (40620)	24.87	23.79	22.77	20.11
		2549.5(40185)	24.67	23.68	22.66	20.22
		2506 (39750)	24.46	23.55	22.61	20.11
	50RB-High (50)	2680 (41490)	24.28	23.23	22.24	20.21
		2636.5(41055)	24.11	23.14	22.10	20.10
		2593 (40620)	23.96	23.06	21.96	20.18
		2549.5(40185)	23.72	22.67	21.66	19.96
		2506 (39750)	23.55	22.61	21.65	20.07
	50RB-Middle (25)	2680 (41490)	24.29	23.23	22.25	20.08
		2636.5(41055)	24.10	23.13	22.17	20.09
		2593 (40620)	23.94	22.86	21.95	20.13
		2549.5(40185)	23.74	22.71	21.66	20.14

		2506 (39750)	23.51	22.45	21.36	20.16
	50RB-Low (0)	2680 (41490)	24.28	23.21	22.12	20.10
		2636.5(41055)	24.09	23.04	22.00	20.13
		2593 (40620)	23.92	22.97	21.90	19.99
		2549.5(40185)	23.73	22.70	21.78	20.00
		2506 (39750)	23.46	22.51	21.52	20.24
	100RB (0)	2680 (41490)	24.27	23.26	22.34	20.21
		2636.5(41055)	24.08	23.00	22.10	20.21
		2593 (40620)	23.91	22.93	21.94	20.13
		2549.5(40185)	23.74	22.66	21.64	20.20
		2506 (39750)	23.51	22.42	21.44	20.10

LTE Band41 ANT0 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	16.43	16.35	16.30	16.25
		2640.3(41093)	16.13	16.12	16.36	16.15
		2593 (40620)	16.10	16.24	16.31	16.30
		2545.8(40148)	16.10	16.31	16.14	16.42
		2498.5 (39675)	16.16	16.15	16.35	16.35
	1RB-Middle (12)	2687.5 (41565)	16.24	16.19	16.12	16.42
		2640.3(41093)	16.28	16.26	16.11	16.34
		2593 (40620)	16.28	16.16	16.32	16.10
		2545.8(40148)	16.33	16.37	16.20	16.25
		2498.5 (39675)	16.26	16.27	16.26	16.29
	1RB-Low (0)	2687.5 (41565)	16.20	16.25	16.25	16.33
		2640.3(41093)	16.16	16.12	16.23	16.24
		2593 (40620)	16.16	16.11	16.27	16.05
		2545.8(40148)	16.22	16.28	16.13	16.35
		2498.5 (39675)	16.15	16.30	16.21	16.20
	12RB-High (13)	2687.5 (41565)	16.31	16.27	16.27	16.41
		2640.3(41093)	16.18	16.29	16.22	16.17
		2593 (40620)	16.32	16.21	16.27	16.38
		2545.8(40148)	16.25	16.20	16.16	16.08
		2498.5 (39675)	16.28	16.35	16.20	16.31
	12RB-Middle (6)	2687.5 (41565)	16.20	16.30	16.22	16.23
		2640.3(41093)	16.41	16.24	16.32	16.24
		2593 (40620)	16.22	16.29	16.18	16.16
		2545.8(40148)	16.38	16.22	16.28	16.16
		2498.5 (39675)	16.43	16.13	16.20	16.20
	12RB-Low (0)	2687.5 (41565)	16.08	16.35	16.13	16.34

		2640.3(41093)	16.29	16.27	16.17	16.38
		2593 (40620)	16.15	16.32	16.35	16.31
		2545.8(40148)	16.27	16.37	16.38	16.22
		2498.5 (39675)	16.33	16.23	16.30	16.28
	25RB (0)	2687.5 (41565)	16.27	16.23	16.20	16.12
		2640.3(41093)	16.22	16.17	16.23	16.39
		2593 (40620)	16.14	16.31	16.10	16.30
		2545.8(40148)	16.30	16.34	16.38	16.17
		2498.5 (39675)	16.13	16.08	16.09	16.24
10MHz	1RB-High (49)	2685 (41540)	16.39	16.47	16.40	16.31
		2639(41080)	16.20	16.18	16.30	16.14
		2593 (40620)	16.17	16.29	16.25	16.32
		2547(40160)	16.15	16.15	16.24	16.36
		2501 (39700)	16.16	16.13	16.26	16.31
	1RB-Middle (24)	2685 (41540)	16.09	16.31	16.19	16.35
		2639(41080)	16.30	16.30	16.31	16.45
		2593 (40620)	16.15	16.33	16.44	16.09
		2547(40160)	16.26	16.39	16.09	16.23
		2501 (39700)	16.24	16.29	16.37	16.23
	1RB-Low (0)	2685 (41540)	16.23	16.24	16.26	16.21
		2639(41080)	16.17	16.16	16.14	16.36
		2593 (40620)	16.15	16.23	16.41	16.25
		2547(40160)	16.12	16.37	16.19	16.25
		2501 (39700)	16.17	16.37	16.21	16.19
	25RB-High (25)	2685 (41540)	16.37	16.21	16.35	16.34
		2639(41080)	16.27	16.23	16.16	16.27
		2593 (40620)	16.17	16.25	16.37	16.23
		2547(40160)	16.27	16.14	16.32	16.20
		2501 (39700)	16.10	16.38	16.34	16.19
	25RB-Middle (12)	2685 (41540)	16.31	16.28	16.24	16.25
		2639(41080)	16.26	16.20	16.19	16.31
		2593 (40620)	16.16	16.22	16.22	16.20
		2547(40160)	16.33	16.14	16.28	16.18
		2501 (39700)	16.40	16.26	16.31	16.11
	25RB-Low (0)	2685 (41540)	16.13	16.19	16.10	16.33
		2639(41080)	16.24	16.35	16.30	16.24
		2593 (40620)	16.18	16.30	16.37	16.31
		2547(40160)	16.31	16.33	16.30	16.15
		2501 (39700)	16.19	16.26	16.42	16.31
	50RB (0)	2685 (41540)	16.32	16.12	16.17	16.12
		2639(41080)	16.31	16.14	16.17	16.30

		2593 (40620)	16.20	16.19	16.23	16.26
		2547(40160)	16.19	16.27	16.42	16.35
		2501 (39700)	16.21	16.14	16.10	16.19
15MHz	1RB-High (74)	2682.5 (41515)	16.29	16.32	16.39	16.26
		2637.8(41068)	16.24	16.19	16.27	16.21
		2593 (40620)	16.09	16.34	16.16	16.27
		2548.3(40173)	16.17	16.23	16.08	16.41
		2503.5 (39725)	16.27	16.17	16.38	16.33
	1RB-Middle (37)	2682.5 (41515)	16.16	16.34	16.20	16.25
		2637.8(41068)	16.22	16.31	16.13	16.37
		2593 (40620)	16.29	16.18	16.33	16.26
		2548.3(40173)	16.25	16.38	16.15	16.24
		2503.5 (39725)	16.40	16.22	16.39	16.13
	1RB-Low (0)	2682.5 (41515)	16.21	16.37	16.23	16.35
		2637.8(41068)	16.10	16.18	16.26	16.39
		2593 (40620)	16.22	16.22	16.29	16.11
		2548.3(40173)	16.15	16.28	16.24	16.25
		2503.5 (39725)	16.17	16.25	16.30	16.39
	36RB-High (38)	2682.5 (41515)	16.35	16.32	16.39	16.34
		2637.8(41068)	16.20	16.15	16.22	16.23
		2593 (40620)	16.31	16.22	16.35	16.34
		2548.3(40173)	16.25	16.14	16.14	16.22
		2503.5 (39725)	16.29	16.38	16.32	16.24
	36RB-Middle (19)	2682.5 (41515)	16.22	16.35	16.31	16.32
		2637.8(41068)	16.39	16.25	16.19	16.18
		2593 (40620)	16.15	16.26	16.07	16.24
		2548.3(40173)	16.35	16.24	16.16	16.17
		2503.5 (39725)	16.26	16.19	16.18	16.19
	36RB-Low (0)	2682.5 (41515)	16.24	16.29	16.12	16.34
		2637.8(41068)	16.19	16.23	16.29	16.22
		2593 (40620)	16.20	16.23	16.31	16.42
		2548.3(40173)	16.39	16.29	16.23	16.24
		2503.5 (39725)	16.28	16.32	16.41	16.37
	75RB (0)	2682.5 (41515)	16.14	16.21	16.17	16.25
		2637.8(41068)	16.19	16.24	16.18	16.29
		2593 (40620)	16.13	16.33	16.16	16.20
		2548.3(40173)	16.17	16.29	16.27	16.24
		2503.5 (39725)	16.20	16.13	16.14	16.25
20MHz	1RB-High (99)	2680 (41490)	16.38	16.42	16.33	16.24
		2636.5(41055)	16.17	16.16	16.35	16.24
		2593 (40620)	16.17	16.31	16.25	16.22

		2549.5(40185)	16.16	16.25	16.15	16.34
		2506 (39750)	16.18	16.21	16.33	16.34
	1RB-Middle (50)	2680 (41490)	16.19	16.29	16.22	16.32
		2636.5(41055)	16.26	16.31	16.21	16.35
		2593 (40620)	16.24	16.25	16.34	16.19
		2549.5(40185)	16.33	16.35	16.16	16.29
		2506 (39750)	16.30	16.27	16.30	16.22
	1RB-Low (0)	2680 (41490)	16.26	16.33	16.23	16.29
		2636.5(41055)	16.18	16.18	16.21	16.30
		2593 (40620)	16.19	16.20	16.31	16.15
		2549.5(40185)	16.21	16.27	16.19	16.34
		2506 (39750)	16.18	16.35	16.30	16.29
	50RB-High (50)	2680 (41490)	16.35	16.24	16.29	16.33
		2636.5(41055)	16.25	16.22	16.19	16.21
		2593 (40620)	16.24	16.21	16.28	16.32
		2549.5(40185)	16.23	16.20	16.22	16.16
		2506 (39750)	16.20	16.33	16.28	16.21
	50RB-Middle (25)	2680 (41490)	16.25	16.26	16.25	16.27
		2636.5(41055)	16.33	16.15	16.24	16.28
		2593 (40620)	16.17	16.28	16.15	16.16
		2549.5(40185)	16.31	16.19	16.21	16.20
		2506 (39750)	16.33	16.16	16.23	16.20
	50RB-Low (0)	2680 (41490)	16.15	16.29	16.15	16.30
		2636.5(41055)	16.19	16.27	16.22	16.32
		2593 (40620)	16.18	16.23	16.35	16.34
		2549.5(40185)	16.34	16.35	16.32	16.23
		2506 (39750)	16.28	16.23	16.32	16.33
	100RB (0)	2680 (41490)	16.22	16.21	16.18	16.21
		2636.5(41055)	16.24	16.24	16.20	16.31
		2593 (40620)	16.23	16.29	16.16	16.24
		2549.5(40185)	16.22	16.29	16.33	16.27
		2506 (39750)	16.15	16.18	16.19	16.19

LTE Band41 ANT0 (Power Level E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	13.29	13.27	13.24	13.16
		2640.3(41093)	13.10	13.13	13.13	13.35
		2593 (40620)	13.10	13.17	13.17	13.01
		2545.8(40148)	13.01	13.18	13.41	12.96
		2498.5 (39675)	13.15	13.00	13.26	13.34

	1RB-Middle (12)	2687.5 (41565)	13.39	13.47	13.04	12.97
		2640.3(41093)	13.26	13.31	13.24	13.17
		2593 (40620)	13.27	13.31	13.39	13.17
		2545.8(40148)	13.03	13.09	13.12	13.10
		2498.5 (39675)	13.17	13.24	13.16	13.13
	1RB-Low (0)	2687.5 (41565)	13.30	13.21	13.20	13.21
		2640.3(41093)	13.11	13.28	13.32	13.15
		2593 (40620)	13.04	13.19	13.20	13.28
		2545.8(40148)	13.31	13.02	13.24	13.14
		2498.5 (39675)	13.25	13.20	13.05	13.02
	12RB-High (13)	2687.5 (41565)	13.14	12.99	13.24	13.20
		2640.3(41093)	13.10	13.14	13.29	13.28
		2593 (40620)	13.08	13.30	12.99	13.38
		2545.8(40148)	13.03	13.26	13.17	13.35
		2498.5 (39675)	13.05	13.02	13.14	13.18
	12RB-Middle (6)	2687.5 (41565)	13.36	13.17	13.34	13.27
		2640.3(41093)	13.32	13.44	13.36	13.28
		2593 (40620)	13.36	13.32	13.18	13.22
		2545.8(40148)	13.33	13.04	13.20	13.24
		2498.5 (39675)	13.20	13.14	13.34	13.23
	12RB-Low (0)	2687.5 (41565)	13.35	13.29	13.36	13.24
		2640.3(41093)	13.25	13.43	13.12	13.16
		2593 (40620)	13.10	13.30	13.10	13.24
		2545.8(40148)	13.21	13.08	13.22	13.22
		2498.5 (39675)	13.10	13.20	13.28	13.36
	25RB (0)	2687.5 (41565)	13.29	13.24	13.27	13.33
		2640.3(41093)	13.26	13.14	13.14	13.25
		2593 (40620)	13.11	13.18	13.20	13.24
		2545.8(40148)	13.08	13.35	13.37	13.24
		2498.5 (39675)	13.05	13.24	13.25	13.24
10MHz	1RB-High (49)	2685 (41540)	13.39	13.26	13.29	13.12
		2639(41080)	13.19	13.22	13.15	13.29
		2593 (40620)	13.19	13.09	13.12	13.11
		2547(40160)	13.07	13.20	13.35	13.04
		2501 (39700)	13.15	13.06	13.20	13.29
	1RB-Middle (24)	2685 (41540)	13.36	13.37	13.06	13.06
		2639(41080)	13.30	13.36	13.19	13.11
		2593 (40620)	13.20	13.21	13.29	13.22
		2547(40160)	13.11	13.15	13.19	13.07
		2501 (39700)	13.25	13.29	13.17	13.10
	1RB-Low (0)	2685 (41540)	13.26	13.21	13.11	13.18

		2639(41080)	13.21	13.30	13.22	13.17
		2593 (40620)	13.14	13.28	13.30	13.26
		2547(40160)	13.21	13.12	13.34	13.08
		2501 (39700)	13.16	13.26	13.11	13.09
	25RB-High (25)	2685 (41540)	13.15	13.01	13.26	13.18
		2639(41080)	13.17	13.22	13.19	13.37
		2593 (40620)	13.11	13.20	13.09	13.30
		2547(40160)	13.05	13.20	13.09	13.25
		2501 (39700)	13.03	13.09	13.22	13.22
	25RB-Middle (12)	2685 (41540)	13.30	13.24	13.33	13.32
		2639(41080)	13.34	13.36	13.34	13.36
		2593 (40620)	13.32	13.25	13.28	13.29
		2547(40160)	13.27	13.03	13.28	13.30
		2501 (39700)	13.27	13.19	13.26	13.19
	25RB-Low (0)	2685 (41540)	13.37	13.24	13.26	13.25
		2639(41080)	13.23	13.39	13.05	13.16
		2593 (40620)	13.19	13.24	13.18	13.32
		2547(40160)	13.20	13.18	13.22	13.19
		2501 (39700)	13.05	13.15	13.24	13.37
	50RB (0)	2685 (41540)	13.27	13.19	13.27	13.25
		2639(41080)	13.28	13.14	13.19	13.31
		2593 (40620)	13.10	13.27	13.24	13.31
		2547(40160)	13.17	13.25	13.29	13.24
		2501 (39700)	13.14	13.25	13.33	13.26
15MHz	1RB-High (74)	2682.5 (41515)	13.31	13.28	13.18	13.28
		2637.8(41068)	13.24	13.25	13.09	13.32
		2593 (40620)	13.20	13.15	13.05	13.09
		2548.3(40173)	13.20	13.09	13.26	13.02
		2503.5 (39725)	13.25	13.26	13.26	13.32
	1RB-Middle (37)	2682.5 (41515)	13.28	13.32	13.17	13.14
		2637.8(41068)	13.16	13.38	13.08	13.12
		2593 (40620)	13.18	13.29	13.20	13.15
		2548.3(40173)	13.16	13.24	13.20	13.08
		2503.5 (39725)	13.13	13.19	13.27	13.11
	1RB-Low (0)	2682.5 (41515)	13.23	13.22	13.07	13.21
		2637.8(41068)	13.17	13.31	13.09	13.21
		2593 (40620)	13.15	13.32	13.20	13.20
		2548.3(40173)	13.17	13.12	13.32	13.11
		2503.5 (39725)	13.02	13.24	13.15	13.06
	36RB-High (38)	2682.5 (41515)	13.17	13.10	13.13	13.31
		2637.8(41068)	13.27	13.32	13.16	13.31

		2593 (40620)	13.09	13.24	13.10	13.30
		2548.3(40173)	13.23	13.20	13.00	13.16
		2503.5 (39725)	13.12	13.04	13.12	13.22
	36RB-Middle (19)	2682.5 (41515)	13.23	13.29	13.19	13.30
		2637.8(41068)	13.25	13.29	13.20	13.32
		2593 (40620)	13.13	13.08	13.16	13.22
		2548.3(40173)	13.23	13.04	13.20	13.22
		2503.5 (39725)	13.24	13.35	13.26	13.15
	36RB-Low (0)	2682.5 (41515)	13.29	13.33	13.22	13.27
		2637.8(41068)	13.14	13.39	13.14	13.24
		2593 (40620)	13.19	13.21	13.07	13.25
		2548.3(40173)	13.24	13.04	13.11	13.12
		2503.5 (39725)	13.16	13.23	13.25	13.29
	75RB (0)	2682.5 (41515)	13.27	13.18	13.32	13.34
		2637.8(41068)	13.14	13.22	13.26	13.27
		2593 (40620)	13.10	13.30	13.21	13.15
		2548.3(40173)	13.16	13.34	13.19	13.22
		2503.5 (39725)	13.17	13.16	13.21	13.23
20MHz	1RB-High (99)	2680 (41490)	13.31	13.36	13.25	13.20
		2636.5(41055)	13.17	13.29	13.13	13.28
		2593 (40620)	13.18	13.12	13.12	13.13
		2549.5(40185)	13.12	13.14	13.27	13.12
		2506 (39750)	13.16	13.16	13.28	13.28
	1RB-Middle (50)	2680 (41490)	13.26	13.29	13.16	13.14
		2636.5(41055)	13.23	13.28	13.10	13.13
		2593 (40620)	13.12	13.22	13.20	13.12
		2549.5(40185)	13.16	13.25	13.11	13.11
		2506 (39750)	13.19	13.26	13.24	13.20
	1RB-Low (0)	2680 (41490)	13.24	13.26	13.17	13.24
		2636.5(41055)	13.23	13.25	13.16	13.15
		2593 (40620)	13.20	13.23	13.23	13.19
		2549.5(40185)	13.18	13.20	13.24	13.14
		2506 (39750)	13.12	13.21	13.11	13.12
	50RB-High (50)	2680 (41490)	13.12	13.10	13.19	13.22
		2636.5(41055)	13.22	13.28	13.25	13.30
		2593 (40620)	13.13	13.21	13.13	13.22
		2549.5(40185)	13.13	13.11	13.10	13.18
		2506 (39750)	13.10	13.10	13.14	13.18
	50RB-Middle (25)	2680 (41490)	13.31	13.24	13.23	13.24
		2636.5(41055)	13.30	13.29	13.30	13.26
		2593 (40620)	13.23	13.16	13.18	13.19

		2549.5(40185)	13.30	13.11	13.23	13.27
		2506 (39750)	13.23	13.29	13.19	13.10
	50RB-Low (0)	2680 (41490)	13.29	13.29	13.22	13.29
		2636.5(41055)	13.22	13.29	13.12	13.19
		2593 (40620)	13.16	13.17	13.16	13.25
		2549.5(40185)	13.20	13.14	13.14	13.10
		2506 (39750)	13.13	13.16	13.16	13.30
	100RB (0)	2680 (41490)	13.28	13.15	13.28	13.24
		2636.5(41055)	13.21	13.24	13.16	13.21
		2593 (40620)	13.13	13.30	13.24	13.23
		2549.5(40185)	13.24	13.29	13.19	13.19
		2506 (39750)	13.23	13.25	13.25	13.28

LTE Band66 ANT4 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	23.89	22.75	21.81	18.34
		1745 (132322)	23.81	22.80	21.81	18.30
		1710.7 (131979)	23.62	22.79	21.66	18.57
	1RB-Middle (3)	1779.3 (132665)	23.68	22.89	21.94	18.68
		1745 (132322)	23.91	22.83	21.93	18.62
		1710.7 (131979)	23.75	22.73	21.70	18.61
	1RB-Low (0)	1779.3 (132665)	23.79	22.82	21.51	18.57
		1745 (132322)	23.84	22.92	22.01	18.44
		1710.7 (131979)	23.87	22.93	21.90	18.39
	3RB-High (3)	1779.3 (132665)	23.77	22.91	21.66	18.36
		1745 (132322)	23.82	22.83	21.81	18.43
		1710.7 (131979)	23.69	22.83	21.71	18.67
	3RB-Middle (1)	1779.3 (132665)	23.83	22.78	21.76	18.48
		1745 (132322)	23.73	22.83	22.01	18.44
		1710.7 (131979)	23.72	22.95	21.88	18.39
	3RB-Low (0)	1779.3 (132665)	23.81	22.63	21.67	18.34
		1745 (132322)	23.69	22.76	21.76	18.45
		1710.7 (131979)	23.86	22.73	21.99	18.33
	6RB (0)	1779.3 (132665)	22.82	21.59	20.81	18.39
		1745 (132322)	22.83	21.99	20.69	18.27
		1710.7 (131979)	22.71	21.71	20.70	18.36
3MHz	1RB-High (14)	1778.5 (132657)	23.76	22.83	21.64	18.46
		1745 (132322)	23.95	22.65	21.97	18.49
		1711.5 (131987)	23.79	22.74	21.69	18.48
	1RB-Middle (7)	1778.5 (132657)	23.90	22.85	21.72	18.64

		1745 (132322)	23.96	22.78	21.97	18.54
		1711.5 (131987)	23.85	22.70	21.75	18.44
	1RB-Low (0)	1778.5 (132657)	23.65	22.55	21.80	18.44
		1745 (132322)	23.73	22.99	21.84	18.64
		1711.5 (131987)	23.67	22.91	21.81	18.33
	8RB-High (7)	1778.5 (132657)	22.65	21.69	20.52	18.35
		1745 (132322)	22.98	21.69	20.77	18.45
		1711.5 (131987)	22.61	21.68	20.49	18.77
	8RB-Middle (4)	1778.5 (132657)	22.85	21.76	20.64	18.61
		1745 (132322)	22.76	21.93	20.83	18.54
		1711.5 (131987)	22.78	21.68	20.94	18.60
	8RB-Low (0)	1778.5 (132657)	22.86	21.56	20.57	18.40
		1745 (132322)	22.71	21.81	20.66	18.54
		1711.5 (131987)	22.82	21.75	20.62	18.54
	15RB (0)	1778.5 (132657)	22.61	21.84	20.70	18.36
		1745 (132322)	22.79	21.91	20.74	18.32
		1711.5 (131987)	22.86	21.77	20.80	18.25
5MHz	1RB-High (24)	1777.5 (132647)	23.88	22.79	21.65	18.40
		1745 (132322)	23.68	22.70	21.85	18.47
		1712.5 (131997)	23.86	22.60	21.55	18.39
	1RB-Middle (12)	1777.5 (132647)	23.78	22.75	21.82	18.47
		1745 (132322)	23.82	22.90	21.84	18.45
		1712.5 (131997)	23.70	22.71	21.89	18.66
	1RB-Low (0)	1777.5 (132647)	23.85	22.65	21.60	18.42
		1745 (132322)	23.85	22.80	21.99	18.47
		1712.5 (131997)	23.80	22.92	21.74	18.51
	12RB-High (13)	1777.5 (132647)	22.82	21.54	20.46	18.41
		1745 (132322)	22.93	21.76	20.87	18.53
		1712.5 (131997)	22.60	21.75	20.61	18.66
	12RB-Middle (6)	1777.5 (132647)	22.79	21.83	20.56	18.66
		1745 (132322)	22.95	21.71	20.92	18.58
		1712.5 (131997)	22.73	21.78	20.92	18.32
	12RB-Low (0)	1777.5 (132647)	22.82	21.67	20.54	18.47
		1745 (132322)	22.86	21.67	20.91	18.41
		1712.5 (131997)	22.85	21.80	20.82	18.55
	25RB (0)	1777.5 (132647)	22.79	21.71	20.61	18.61
		1745 (132322)	22.86	21.93	20.77	18.34
		1712.5 (131997)	22.71	21.83	20.76	18.45
10MHz	1RB-High (49)	1775 (132622)	23.87	22.90	21.91	18.48
		1745 (132322)	23.69	22.83	21.74	18.44
		1715 (132022)	23.74	22.56	21.74	18.43

	1RB-Middle (24)	1775 (132622)	23.92	22.81	21.78	18.65
		1745 (132322)	23.86	22.77	21.96	18.50
		1715 (132022)	23.74	22.72	21.80	18.42
	1RB-Low (0)	1775 (132622)	23.90	22.61	21.74	18.63
		1745 (132322)	23.71	22.82	21.91	18.59
		1715 (132022)	23.62	22.91	21.91	18.57
	25RB-High (25)	1775 (132622)	22.80	21.73	20.67	18.49
		1745 (132322)	22.76	21.78	20.73	18.60
		1715 (132022)	22.80	21.66	20.45	18.73
	25RB-Middle (12)	1775 (132622)	22.61	21.88	20.80	18.67
		1745 (132322)	22.69	21.72	20.95	18.61
		1715 (132022)	22.66	21.66	20.92	18.38
	25RB-Low (0)	1775 (132622)	22.57	21.77	20.53	18.32
		1745 (132322)	22.97	21.79	20.83	18.36
		1715 (132022)	22.65	21.74	20.70	18.34
	50RB (0)	1775 (132622)	22.60	21.80	20.80	18.58
		1745 (132322)	22.82	21.96	20.63	18.34
		1715 (132022)	22.71	21.84	20.92	18.33
15MHz	1RB-High (74)	1772.5 (132597)	23.80	22.80	21.69	18.39
		1745 (132322)	23.86	22.91	21.86	18.41
		1717.5 (132047)	23.83	22.59	21.55	18.60
	1RB-Middle (37)	1772.5 (132597)	23.78	22.82	21.78	18.60
		1745 (132322)	23.91	22.72	22.01	18.48
		1717.5 (132047)	23.65	22.75	21.87	18.61
	1RB-Low (0)	1772.5 (132597)	23.70	22.83	21.54	18.48
		1745 (132322)	23.77	22.82	21.86	18.37
		1717.5 (132047)	23.88	22.89	21.76	18.36
	36RB-High (38)	1772.5 (132597)	22.77	21.62	20.50	18.41
		1745 (132322)	22.83	21.73	20.76	18.59
		1717.5 (132047)	22.69	21.63	20.43	18.70
	36RB-Middle (19)	1772.5 (132597)	22.76	21.65	20.74	18.68
		1745 (132322)	22.73	21.83	20.89	18.42
		1717.5 (132047)	22.70	21.84	20.73	18.41
	36RB-Low (0)	1772.5 (132597)	22.58	21.73	20.64	18.56
		1745 (132322)	22.70	21.80	20.67	18.48
		1717.5 (132047)	22.60	21.92	20.58	18.57
	75RB (0)	1772.5 (132597)	22.64	21.85	20.79	18.44
		1745 (132322)	22.90	21.87	20.87	18.29
		1717.5 (132047)	22.82	21.81	20.71	18.44
20MHz	1RB-High (99)	1770 (132572)	23.78	22.86	21.78	18.41
		1745 (132322)	23.80	22.77	21.85	18.42

		1720 (132072)	23.76	22.68	21.59	18.53
	1RB-Middle (50)	1770 (132572)	23.77	22.85	21.80	18.59
		1745 (132322)	23.87	22.81	21.88	18.57
		1720 (132072)	23.77	22.83	21.75	18.51
	1RB-Low (0)	1770 (132572)	23.76	22.70	21.66	18.48
		1745 (132322)	23.84	22.89	21.86	18.52
		1720 (132072)	23.76	22.81	21.85	18.44
	50RB-High (50)	1770 (132572)	22.74	21.69	20.60	18.49
		1745 (132322)	22.84	21.80	20.85	18.52
		1720 (132072)	22.75	21.66	20.58	18.63
	50RB-Middle (25)	1770 (132572)	22.76	21.78	20.69	18.59
		1745 (132322)	22.81	21.83	20.86	18.49
		1720 (132072)	22.79	21.78	20.80	18.46
	50RB-Low (0)	1770 (132572)	22.72	21.63	20.55	18.45
		1745 (132322)	22.82	21.79	20.77	18.42
		1720 (132072)	22.73	21.80	20.70	18.43
	100RB (0)	1770 (132572)	22.75	21.72	20.72	18.48
		1745 (132322)	22.81	21.85	20.76	18.36
		1720 (132072)	22.74	21.83	20.81	18.35

LTE Band66 ANT4 (Power Level D1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	17.21	17.17	17.24	17.38
		1745 (132322)	17.24	17.09	17.10	17.20
		1710.7 (131979)	17.13	17.36	17.30	17.21
	1RB-Middle (3)	1779.3 (132665)	17.18	17.13	17.39	17.34
		1745 (132322)	17.38	17.28	17.37	17.20
		1710.7 (131979)	17.18	17.12	17.21	17.28
	1RB-Low (0)	1779.3 (132665)	17.12	17.23	17.22	17.38
		1745 (132322)	17.14	17.26	17.23	17.09
		1710.7 (131979)	17.28	17.21	17.30	17.22
	3RB-High (3)	1779.3 (132665)	17.18	17.27	17.32	17.29
		1745 (132322)	17.11	17.22	17.24	17.16
		1710.7 (131979)	17.24	17.28	17.24	17.18
	3RB-Middle (1)	1779.3 (132665)	17.30	17.19	17.35	17.15
		1745 (132322)	17.23	17.23	17.28	17.10
		1710.7 (131979)	17.30	17.24	17.12	17.17
	3RB-Low (0)	1779.3 (132665)	17.14	17.08	17.18	17.14
		1745 (132322)	17.22	17.26	17.14	17.07
		1710.7 (131979)	17.26	17.25	17.06	17.10

	6RB (0)	1779.3 (132665)	17.06	17.20	17.16	17.18
		1745 (132322)	17.26	17.00	17.17	17.08
		1710.7 (131979)	17.20	17.11	17.13	17.02
3MHz	1RB-High (14)	1778.5 (132657)	17.28	17.18	17.14	17.40
		1745 (132322)	17.06	17.02	17.15	17.29
		1711.5 (131987)	17.24	17.29	17.22	17.27
	1RB-Middle (7)	1778.5 (132657)	17.10	17.15	17.34	17.31
		1745 (132322)	17.27	17.39	17.36	17.08
		1711.5 (131987)	17.33	17.01	17.19	17.13
	1RB-Low (0)	1778.5 (132657)	17.06	17.27	17.34	17.21
		1745 (132322)	17.26	17.22	17.06	17.03
		1711.5 (131987)	17.32	17.20	17.20	17.18
	8RB-High (7)	1778.5 (132657)	17.25	17.25	17.31	17.27
		1745 (132322)	17.20	17.21	17.07	17.23
		1711.5 (131987)	17.29	17.26	17.27	17.20
	8RB-Middle (4)	1778.5 (132657)	17.20	17.23	17.24	17.16
		1745 (132322)	17.22	17.23	17.18	17.15
		1711.5 (131987)	17.20	17.05	17.17	17.12
	8RB-Low (0)	1778.5 (132657)	17.23	17.24	17.12	17.04
		1745 (132322)	17.21	17.19	17.25	17.18
		1711.5 (131987)	17.20	17.35	17.20	17.04
	15RB (0)	1778.5 (132657)	17.20	17.28	17.20	17.27
		1745 (132322)	17.26	17.06	17.23	17.14
		1711.5 (131987)	17.19	17.12	17.24	17.09
5MHz	1RB-High (24)	1777.5 (132647)	17.27	17.32	17.24	17.25
		1745 (132322)	17.08	17.19	17.21	17.11
		1712.5 (131997)	17.13	17.28	17.16	17.18
	1RB-Middle (12)	1777.5 (132647)	17.06	17.17	17.27	17.36
		1745 (132322)	17.39	17.32	17.27	17.10
		1712.5 (131997)	17.33	17.12	17.10	17.19
	1RB-Low (0)	1777.5 (132647)	17.12	17.20	17.21	17.32
		1745 (132322)	17.19	17.22	17.07	17.13
		1712.5 (131997)	17.24	17.20	17.27	17.20
	12RB-High (13)	1777.5 (132647)	17.16	17.18	17.27	17.30
		1745 (132322)	17.27	17.24	17.13	17.04
		1712.5 (131997)	17.16	17.25	17.35	17.19
	12RB-Middle (6)	1777.5 (132647)	17.17	17.11	17.22	17.27
		1745 (132322)	17.30	17.29	17.28	17.23
		1712.5 (131997)	17.22	17.12	17.09	17.10
	12RB-Low (0)	1777.5 (132647)	17.20	17.12	17.08	17.14
		1745 (132322)	17.23	17.33	17.30	17.08

		1712.5 (131997)	17.14	17.25	17.21	17.07
	25RB (0)	1777.5 (132647)	17.22	17.32	17.29	17.08
		1745 (132322)	17.28	17.18	17.15	17.05
		1712.5 (131997)	17.19	17.24	17.20	17.03
10MHz	1RB-High (49)	1775 (132622)	17.13	17.31	17.25	17.28
		1745 (132322)	17.19	17.03	17.20	17.23
		1715 (132022)	17.09	17.25	17.25	17.27
	1RB-Middle (24)	1775 (132622)	17.13	17.15	17.26	17.21
		1745 (132322)	17.31	17.29	17.40	17.24
		1715 (132022)	17.24	17.06	17.18	17.08
	1RB-Low (0)	1775 (132622)	17.04	17.23	17.19	17.35
		1745 (132322)	17.27	17.21	17.24	17.15
		1715 (132022)	17.32	17.07	17.40	17.12
	25RB-High (25)	1775 (132622)	17.20	17.26	17.19	17.37
		1745 (132322)	17.16	17.15	17.14	17.15
		1715 (132022)	17.24	17.17	17.38	17.14
	25RB-Middle (12)	1775 (132622)	17.22	17.21	17.31	17.21
		1745 (132322)	17.29	17.26	17.13	17.20
		1715 (132022)	17.26	17.24	17.21	17.12
	25RB-Low (0)	1775 (132622)	17.28	17.22	17.25	17.22
		1745 (132322)	17.23	17.22	17.22	17.08
		1715 (132022)	17.14	17.21	17.19	17.06
	50RB (0)	1775 (132622)	17.21	17.17	17.15	17.27
		1745 (132322)	17.29	17.19	17.08	17.11
		1715 (132022)	17.12	17.24	17.06	17.15
15MHz	1RB-High (74)	1772.5 (132597)	17.16	17.24	17.27	17.34
		1745 (132322)	17.16	17.09	17.27	17.10
		1717.5 (132047)	17.22	17.18	17.28	17.18
	1RB-Middle (37)	1772.5 (132597)	17.14	17.23	17.26	17.34
		1745 (132322)	17.35	17.43	17.31	17.13
		1717.5 (132047)	17.30	17.12	17.08	17.14
	1RB-Low (0)	1772.5 (132597)	17.05	17.14	17.15	17.37
		1745 (132322)	17.23	17.24	17.24	17.20
		1717.5 (132047)	17.22	17.22	17.31	17.30
	36RB-High (38)	1772.5 (132597)	17.25	17.21	17.14	17.33
		1745 (132322)	17.22	17.24	17.21	17.10
		1717.5 (132047)	17.30	17.22	17.34	17.03
	36RB-Middle (19)	1772.5 (132597)	17.26	17.27	17.29	17.16
		1745 (132322)	17.35	17.19	17.11	17.10
		1717.5 (132047)	17.31	17.17	17.22	17.12
	36RB-Low (0)	1772.5 (132597)	17.11	17.09	17.27	17.17

		1745 (132322)	17.27	17.14	17.30	17.12
		1717.5 (132047)	17.25	17.17	17.08	17.18
	75RB (0)	1772.5 (132597)	17.19	17.31	17.14	17.10
		1745 (132322)	17.14	17.18	17.20	17.19
		1717.5 (132047)	17.14	17.24	17.22	17.03
20MHz	1RB-High (99)	1770 (132572)	17.22	17.22	17.24	17.30
		1745 (132322)	17.14	17.12	17.17	17.20
		1720 (132072)	17.14	17.28	17.23	17.18
	1RB-Middle (50)	1770 (132572)	17.12	17.15	17.30	17.30
		1745 (132322)	17.29	17.35	17.36	17.15
		1720 (132072)	17.24	17.11	17.15	17.18
	1RB-Low (0)	1770 (132572)	17.11	17.21	17.25	17.30
		1745 (132322)	17.22	17.19	17.16	17.11
		1720 (132072)	17.26	17.15	17.30	17.21
	50RB-High (50)	1770 (132572)	17.23	17.19	17.22	17.29
		1745 (132322)	17.20	17.17	17.16	17.14
		1720 (132072)	17.26	17.21	17.28	17.11
	50RB-Middle (25)	1770 (132572)	17.27	17.20	17.25	17.19
		1745 (132322)	17.29	17.28	17.20	17.19
		1720 (132072)	17.28	17.14	17.16	17.20
	50RB-Low (0)	1770 (132572)	17.18	17.18	17.18	17.12
		1745 (132322)	17.17	17.23	17.22	17.17
		1720 (132072)	17.22	17.27	17.16	17.14
	100RB (0)	1770 (132572)	17.14	17.22	17.24	17.17
		1745 (132322)	17.20	17.10	17.14	17.15
		1720 (132072)	17.12	17.14	17.16	17.12

LTE Band66 ANT4 (Power Level E1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	20.04	20.11	20.15	18.37
		1745 (132322)	20.04	20.21	20.15	18.37
		1710.7 (131979)	20.18	20.09	20.09	18.39
	1RB-Middle (3)	1779.3 (132665)	19.98	20.17	20.17	18.31
		1745 (132322)	20.30	20.29	20.37	18.16
		1710.7 (131979)	20.30	20.14	20.15	18.43
	1RB-Low (0)	1779.3 (132665)	20.29	20.13	20.31	18.32
		1745 (132322)	20.05	20.00	20.16	18.20
		1710.7 (131979)	20.12	20.20	20.08	18.39
	3RB-High (3)	1779.3 (132665)	20.23	20.07	20.28	18.42
		1745 (132322)	20.18	20.08	20.23	18.40

		1710.7 (131979)	20.17	20.12	20.21	18.38
	3RB-Middle (1)	1779.3 (132665)	20.13	20.29	19.97	18.28
		1745 (132322)	20.21	20.22	20.09	18.34
		1710.7 (131979)	20.19	20.24	20.10	18.33
	3RB-Low (0)	1779.3 (132665)	20.18	19.99	20.26	18.35
		1745 (132322)	20.18	20.18	20.11	18.32
		1710.7 (131979)	20.24	20.14	20.17	18.28
	6RB (0)	1779.3 (132665)	20.03	20.01	20.10	18.30
		1745 (132322)	20.12	20.21	20.08	18.39
		1710.7 (131979)	20.24	19.97	20.14	18.28
3MHz	1RB-High (14)	1778.5 (132657)	20.00	20.04	20.27	18.35
		1745 (132322)	20.09	20.08	20.24	18.40
		1711.5 (131987)	20.22	19.99	20.13	18.37
	1RB-Middle (7)	1778.5 (132657)	20.03	20.13	20.23	18.27
		1745 (132322)	20.17	20.29	20.28	18.19
		1711.5 (131987)	20.29	20.10	20.20	18.37
	1RB-Low (0)	1778.5 (132657)	20.29	20.09	20.32	18.34
		1745 (132322)	20.16	20.04	20.20	18.22
		1711.5 (131987)	20.14	20.19	20.09	18.42
	8RB-High (7)	1778.5 (132657)	20.20	20.24	20.16	18.45
		1745 (132322)	20.22	20.12	20.26	18.33
		1711.5 (131987)	20.16	20.24	20.16	18.42
	8RB-Middle (4)	1778.5 (132657)	20.18	20.21	20.08	18.31
		1745 (132322)	20.21	20.15	20.12	18.28
		1711.5 (131987)	20.14	20.15	20.16	18.40
	8RB-Low (0)	1778.5 (132657)	20.31	19.99	20.29	18.26
		1745 (132322)	20.25	20.29	20.15	18.23
		1711.5 (131987)	20.20	20.11	19.99	18.24
	15RB (0)	1778.5 (132657)	20.08	20.15	20.02	18.31
		1745 (132322)	20.14	20.05	20.02	18.41
		1711.5 (131987)	20.13	20.14	20.12	18.40
5MHz	1RB-High (24)	1777.5 (132647)	20.04	20.18	20.16	18.17
		1745 (132322)	20.07	20.09	20.15	18.25
		1712.5 (131997)	20.19	20.09	20.02	18.40
	1RB-Middle (12)	1777.5 (132647)	20.03	20.25	20.24	18.36
		1745 (132322)	20.29	20.30	20.42	18.30
		1712.5 (131997)	20.25	20.02	20.11	18.35
	1RB-Low (0)	1777.5 (132647)	20.19	20.15	20.14	18.18
		1745 (132322)	20.12	20.15	20.30	18.25
		1712.5 (131997)	20.14	20.15	20.19	18.40
	12RB-High (13)	1777.5 (132647)	20.20	20.17	20.18	18.41

		1745 (132322)	20.16	20.28	20.15	18.30
		1712.5 (131997)	20.18	20.21	20.24	18.25
	12RB-Middle (6)	1777.5 (132647)	20.09	20.20	20.12	18.39
		1745 (132322)	20.14	20.20	20.25	18.23
		1712.5 (131997)	20.13	20.14	20.03	18.44
	12RB-Low (0)	1777.5 (132647)	20.23	20.06	20.18	18.37
		1745 (132322)	20.23	20.20	20.22	18.17
		1712.5 (131997)	20.22	20.22	20.10	18.15
	25RB (0)	1777.5 (132647)	20.06	20.12	20.00	18.40
		1745 (132322)	20.21	20.19	19.98	18.29
		1712.5 (131997)	20.11	20.03	20.10	18.39
10MHz	1RB-High (49)	1775 (132622)	20.14	20.18	20.28	18.21
		1745 (132322)	20.17	20.13	20.21	18.25
		1715 (132022)	20.23	19.98	20.16	18.30
	1RB-Middle (24)	1775 (132622)	20.11	20.19	20.24	18.28
		1745 (132322)	20.18	20.43	20.28	18.21
		1715 (132022)	20.23	20.01	20.20	18.44
	1RB-Low (0)	1775 (132622)	20.26	19.99	20.30	18.33
		1745 (132322)	20.16	20.08	20.20	18.28
		1715 (132022)	20.29	20.28	20.19	18.31
	25RB-High (25)	1775 (132622)	20.29	20.19	20.12	18.38
		1745 (132322)	20.27	20.12	20.16	18.34
		1715 (132022)	20.11	20.19	20.20	18.38
	25RB-Middle (12)	1775 (132622)	20.21	20.17	20.09	18.42
		1745 (132322)	20.14	20.24	20.10	18.33
		1715 (132022)	20.17	20.12	20.04	18.33
	25RB-Low (0)	1775 (132622)	20.31	20.14	20.09	18.29
		1745 (132322)	20.33	20.28	20.19	18.34
		1715 (132022)	20.16	20.12	20.05	18.20
	50RB (0)	1775 (132622)	20.17	20.11	20.03	18.40
		1745 (132322)	20.08	20.06	20.08	18.37
		1715 (132022)	20.23	20.03	20.14	18.30
15MHz	1RB-High (74)	1772.5 (132597)	20.09	20.07	20.27	18.26
		1745 (132322)	20.20	20.14	20.11	18.25
		1717.5 (132047)	20.16	20.01	20.16	18.39
	1RB-Middle (37)	1772.5 (132597)	20.14	20.25	20.29	18.25
		1745 (132322)	20.34	20.35	20.27	18.21
		1717.5 (132047)	20.22	20.15	20.19	18.27
	1RB-Low (0)	1772.5 (132597)	20.26	20.02	20.29	18.27
		1745 (132322)	20.04	19.99	20.34	18.35
		1717.5 (132047)	20.24	20.24	20.15	18.44

	36RB-High (38)	1772.5 (132597)	20.21	20.10	20.27	18.33
		1745 (132322)	20.15	20.18	20.12	18.37
		1717.5 (132047)	20.17	20.32	20.25	18.43
	36RB-Middle (19)	1772.5 (132597)	20.11	20.18	19.98	18.42
		1745 (132322)	20.23	20.12	20.25	18.21
		1717.5 (132047)	20.32	20.14	20.03	18.34
	36RB-Low (0)	1772.5 (132597)	20.25	20.06	20.29	18.30
		1745 (132322)	20.34	20.22	20.19	18.27
		1717.5 (132047)	20.26	20.12	19.99	18.16
	75RB (0)	1772.5 (132597)	20.02	19.99	20.02	18.33
		1745 (132322)	20.16	20.10	20.13	18.34
		1717.5 (132047)	20.20	20.13	20.02	18.32
20MHz	1RB-High (99)	1770 (132572)	20.10	20.11	20.23	18.27
		1745 (132322)	20.14	20.12	20.14	18.35
		1720 (132072)	20.22	20.06	20.10	18.32
	1RB-Middle (50)	1770 (132572)	20.06	20.16	20.21	18.27
		1745 (132322)	20.24	20.36	20.34	18.22
		1720 (132072)	20.23	20.10	20.10	18.37
	1RB-Low (0)	1770 (132572)	20.20	20.07	20.23	18.28
		1745 (132322)	20.07	20.07	20.25	18.28
		1720 (132072)	20.22	20.18	20.09	18.36
	50RB-High (50)	1770 (132572)	20.25	20.15	20.19	18.37
		1745 (132322)	20.19	20.18	20.21	18.30
		1720 (132072)	20.09	20.22	20.22	18.35
	50RB-Middle (25)	1770 (132572)	20.13	20.21	20.05	18.36
		1745 (132322)	20.19	20.19	20.19	18.28
		1720 (132072)	20.22	20.20	20.06	18.39
	50RB-Low (0)	1770 (132572)	20.23	20.06	20.19	18.29
		1745 (132322)	20.28	20.21	20.20	18.25
		1720 (132072)	20.25	20.17	20.09	18.22
	100RB (0)	1770 (132572)	20.09	20.08	20.08	18.31
		1745 (132322)	20.11	20.15	20.05	18.39
		1720 (132072)	20.16	20.05	20.05	18.35

LTE Carrier Aggregation Conducted Power (Uplink)

CA_7C

UL LTE CA Class	PCC					SCC				
	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	18.32
CA_7C	20M	21350	3350	1	99	15M	3179	1	0	18.29
CA_7C	20M	21350	3350	1	99	10M	3206	1	0	18.31
CA_7C	20M	20850	2850	1	99	20M	3048	1	0	23.18
CA_7C	20M	20850	2850	1	99	15M	3021	1	0	23.11
CA_7C	20M	20850	2850	1	99	10M	2994	1	0	23.07
CA_7C	15M	21375	3375	1	74	15M	3225	1	0	22.81
CA_7C	15M	20825	2825	1	74	15M	2975	1	0	23.04
CA_7C	15M	20825	2825	1	74	10M	2945	1	0	23.01
CA_7C	20M	21350	3350	1	0	20M	3152	1	99	22.79
CA_7C	20M	21350	3350	1	0	15M	3179	1	74	22.73
CA_7C	20M	21350	3350	1	0	10M	3206	1	49	22.75
CA_7C	20M	20850	2850	1	0	20M	3048	1	99	14.46
CA_7C	20M	20850	2850	1	0	15M	3021	1	74	14.43
CA_7C	20M	20850	2850	1	0	10M	2994	1	49	14.41
CA_7C	15M	21375	3375	1	0	15M	3225	1	74	22.74
CA_7C	15M	20825	2825	1	0	15M	2975	1	74	14.49
CA_7C	15M	20825	2825	1	0	10M	2945	1	49	14.45

CA_38C

UL LTE CA Class	PCC				SCC				
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	conducted power（dBm）
CA_38C	20M	38150	1	99	20M	37952	1	0	19.05
CA_38C	20M	37850	1	99	20M	38048	1	0	23.55
CA_38C	15M	38175	1	74	15M	38025	1	0	19.11
CA_38C	15M	37825	1	74	15M	37975	1	0	23.58
CA_38C	20M	38150	1	0	20M	37952	1	99	23.78
CA_38C	20M	37850	1	0	20M	38048	1	99	14.96
CA_38C	15M	38175	1	0	15M	38025	1	74	23.71
CA_38C	15M	37825	1	0	15M	37975	1	74	15.01

11.4 5G NR Measurement result

Maximum Target Power for Production Unit

Band	Antenna	Tune up (dBm)				
		Receiver off+ Sensor off (Normal power)	SA+WIFI		ENDC(ULCA)+WIFI	
			Receiver on (Head scenario)	Receiver off+ Sensor on (Body scenario)	Receiver on (Head scenario)	Receiver off+ Sensor on (Body scenario)
		Power Level A1	Power Level B1	Power Level C1	Power Level D1	Power Level E1
5G NR n5	ANT0	25.5	25.5	20.5	25.5	17.5
5G NR n7	ANT4	25	16	17	13	14
5G NR n7	ANT0	25	25	17	N/A	N/A
5G NR n26	ANT0	25.5	25.5	25.5	25.5	22.5
5G NR n41	ANT4	25	15.5	17	12.5	14
5G NR n66	ANT1	25	25	23.5	N/A	N/A
5G NR n66	ANT4	25	N/A	N/A	18.5	21.5
5G NR n77	ANT5	24.5	13.5	15.5	10.5	12.5

n5 ANT0 (Power Level A1/B1/D1)

No.	Test Freq Description	5G-n5								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n5
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	25.50	24.25
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	25.50	24.33
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	25.50	24.31
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	25.50	24.22
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	25.50	24.21
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	25.50	24.19

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n5								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n5
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	25.50	24.28
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	24.50	23.21
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	23.00	21.69
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	21.00	19.72
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	24.00	22.74
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	23.50	22.31
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.00	20.73
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	19.00	17.64
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	24.50	23.25
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	24.50	23.12
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	24.50	23.15
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	24.50	23.08
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	25.50	24.17
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	25.50	24.11
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	24.50	23.22
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	25.50	24.21
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	25.50	24.19

n5 ANT0 (Power Level C1)

No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n5
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	20.50	19.99
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	20.50	20.06
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	20.50	19.97
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	20.50	20.01
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	20.50	20.00
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	20.50	20.03

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n5
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	20.50	19.97
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	20.50	19.99
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	20.50	19.97
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	20.50	19.52
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	20.50	19.98
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	20.50	20.01
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	20.50	20.02
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	18.50	17.42
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	20.50	20.01
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	20.50	20.03
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	20.50	19.90
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	20.50	19.91
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	20.50	19.92
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	20.50	19.94
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	20.50	20.02
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	20.50	19.96
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	20.50	19.99

n5 ANT0 (Power Level E1)

No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n5
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	17.50	16.50
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	17.50	16.74
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	17.50	16.68
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	17.50	16.69
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	17.50	16.70
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	17.50	16.71

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n5
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	17.50	16.58
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	17.50	16.41
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	17.50	16.36
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	17.50	16.38
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	17.50	16.21
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	17.50	16.32
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	17.50	16.32
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	17.50	16.38
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	17.50	16.22
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	17.50	16.26
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	17.50	16.29
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	17.50	16.22
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	17.50	16.24
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	17.50	16.19
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	17.50	16.42
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	17.50	16.38
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	17.50	16.42

n7 ANT4 (Power Level A1)

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	24.00	23.79
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	24.00	23.74
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	24.00	23.72
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2550	510000	24.00	23.71
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2535	507000	24.00	23.81
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2520	504000	24.00	23.76

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108_54	2535	507000	24.00	23.74
2	Middle	15	40	DFT-s-OFDM 16QAM	Inner_Full	108_54	2535	507000	23.00	22.68
3	Middle	15	40	DFT-s-OFDM 64QAM	Inner_Full	108_54	2535	507000	21.50	21.22
4	Middle	15	40	DFT-s-OFDM 256QAM	Inner_Full	108_54	2535	507000	19.50	19.21
5	Middle	15	40	CP-OFDM QPSK	Inner_Full	108_54	2535	507000	22.50	22.23
6	Middle	15	40	CP-OFDM 16QAM	Inner_Full	108_54	2535	507000	22.00	21.71
7	Middle	15	40	CP-OFDM 64QAM	Inner_Full	108_54	2535	507000	20.50	20.21
8	Middle	15	40	CP-OFDM 256QAM	Inner_Full	108_54	2535	507000	17.50	17.21
9	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2_214	2535	507000	23.00	22.48
10	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	23.00	22.77
11	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Right	1_215	2535	507000	23.00	22.43
12	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	23.00	22.74
13	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1_214	2535	507000	24.00	23.45
14	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	24.00	23.78
15	Middle	15	40	DFT-s-OFDM QPSK	Outer_Full	216_0	2535	507000	23.00	22.81
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	24.00	23.71
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	24.00	23.71
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	24.00	23.68
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	2535	507000	24.00	23.71
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	2535	507000	24.00	23.75

n7 ANT4 (Power Level B1)

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	16.00	15.08
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	16.00	15.07
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	16.00	15.10
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2550	510000	16.00	14.98
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2535	507000	16.00	15.16
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2520	504000	16.00	15.10

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108_54	2535	507000	16.00	14.87
2	Middle	15	40	DFT-s-OFDM 16QAM	Inner_Full	108_54	2535	507000	16.00	14.97
3	Middle	15	40	DFT-s-OFDM 64QAM	Inner_Full	108_54	2535	507000	16.00	14.87
4	Middle	15	40	DFT-s-OFDM 256QAM	Inner_Full	108_54	2535	507000	16.00	14.92
5	Middle	15	40	CP-OFDM QPSK	Inner_Full	108_54	2535	507000	16.00	14.89
6	Middle	15	40	CP-OFDM 16QAM	Inner_Full	108_54	2535	507000	16.00	15.04
7	Middle	15	40	CP-OFDM 64QAM	Inner_Full	108_54	2535	507000	16.00	15.02
8	Middle	15	40	CP-OFDM 256QAM	Inner_Full	108_54	2535	507000	16.00	15.07
9	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2_214	2535	507000	16.00	15.05
10	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	16.00	14.94
11	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Right	1_215	2535	507000	16.00	14.96
12	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	16.00	14.87
13	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1_214	2535	507000	16.00	14.88
14	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	16.00	15.02
15	Middle	15	40	DFT-s-OFDM QPSK	Outer_Full	216_0	2535	507000	16.00	14.92
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	16.00	15.00
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	16.00	14.94
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	16.00	15.02
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	2535	507000	16.00	15.09
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	2535	507000	16.00	15.06

n7 ANT4 (Power Level C1)

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	17.00	15.98
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	17.00	16.06
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	17.00	16.10
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2550	510000	17.00	15.88
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2535	507000	17.00	16.17
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2520	504000	17.00	16.09
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108_54	2535	507000	17.00	16.04
2	Middle	15	40	DFT-s-OFDM 16QAM	Inner_Full	108_54	2535	507000	17.00	15.91
3	Middle	15	40	DFT-s-OFDM 64QAM	Inner_Full	108_54	2535	507000	17.00	15.93
4	Middle	15	40	DFT-s-OFDM 256QAM	Inner_Full	108_54	2535	507000	17.00	16.06
5	Middle	15	40	CP-OFDM QPSK	Inner_Full	108_54	2535	507000	17.00	16.07
6	Middle	15	40	CP-OFDM 16QAM	Inner_Full	108_54	2535	507000	17.00	15.90
7	Middle	15	40	CP-OFDM 64QAM	Inner_Full	108_54	2535	507000	17.00	16.03
8	Middle	15	40	CP-OFDM 256QAM	Inner_Full	108_54	2535	507000	17.00	15.85
9	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2_214	2535	507000	17.00	16.02
10	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	17.00	15.87
11	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Right	1_215	2535	507000	17.00	16.09
12	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	17.00	16.02
13	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1_214	2535	507000	17.00	16.08
14	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	17.00	16.09
15	Middle	15	40	DFT-s-OFDM QPSK	Outer_Full	216_0	2535	507000	17.00	16.09
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	17.00	15.97
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	17.00	15.97
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	17.00	16.10
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	2535	507000	17.00	15.97
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	2535	507000	17.00	15.96

n7 ANT4 (Power Level D1)

No.	Test Freq Description	5G-n7								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	13.00	12.12
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	13.00	12.06
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	13.00	12.14
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2550	510000	13.00	12.01
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2535	507000	13.00	12.17
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2520	504000	13.00	12.07
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n7								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n7
1	Middle	15	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108_54	2535	507000	13.00	11.96
2	Middle	15	40	DFT-s-OFDM 16QAM	Inner_Full	108_54	2535	507000	13.00	12.04
3	Middle	15	40	DFT-s-OFDM 64QAM	Inner_Full	108_54	2535	507000	13.00	11.83
4	Middle	15	40	DFT-s-OFDM 256QAM	Inner_Full	108_54	2535	507000	13.00	12.04
5	Middle	15	40	CP-OFDM QPSK	Inner_Full	108_54	2535	507000	13.00	11.98
6	Middle	15	40	CP-OFDM 16QAM	Inner_Full	108_54	2535	507000	13.00	12.10
7	Middle	15	40	CP-OFDM 64QAM	Inner_Full	108_54	2535	507000	13.00	11.93
8	Middle	15	40	CP-OFDM 256QAM	Inner_Full	108_54	2535	507000	13.00	11.95
9	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2_214	2535	507000	13.00	11.90
10	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	13.00	12.04
11	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Right	1_215	2535	507000	13.00	12.09
12	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	13.00	11.98
13	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1_214	2535	507000	13.00	11.87
14	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	13.00	12.04
15	Middle	15	40	DFT-s-OFDM QPSK	Outer_Full	216_0	2535	507000	13.00	11.87
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	13.00	11.87
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	13.00	11.98
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	13.00	11.89
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	2535	507000	13.00	11.90
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	2535	507000	13.00	12.06

n7 ANT4 (Power Level E1)

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	14.00	13.12
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	14.00	13.09
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	14.00	13.13
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2550	510000	14.00	12.83
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2535	507000	14.00	13.17
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2520	504000	14.00	13.07

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108_54	2535	507000	14.00	12.99
2	Middle	15	40	DFT-s-OFDM 16QAM	Inner_Full	108_54	2535	507000	14.00	12.87
3	Middle	15	40	DFT-s-OFDM 64QAM	Inner_Full	108_54	2535	507000	14.00	12.86
4	Middle	15	40	DFT-s-OFDM 256QAM	Inner_Full	108_54	2535	507000	14.00	12.95
5	Middle	15	40	CP-OFDM QPSK	Inner_Full	108_54	2535	507000	14.00	12.88
6	Middle	15	40	CP-OFDM 16QAM	Inner_Full	108_54	2535	507000	14.00	12.93
7	Middle	15	40	CP-OFDM 64QAM	Inner_Full	108_54	2535	507000	14.00	13.06
8	Middle	15	40	CP-OFDM 256QAM	Inner_Full	108_54	2535	507000	14.00	12.94
9	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2_214	2535	507000	14.00	12.97
10	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	14.00	13.01
11	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Right	1_215	2535	507000	14.00	12.96
12	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	14.00	12.99
13	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1_214	2535	507000	14.00	12.97
14	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	14.00	13.10
15	Middle	15	40	DFT-s-OFDM QPSK	Outer_Full	216_0	2535	507000	14.00	13.09
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	14.00	12.89
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	14.00	12.90
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	14.00	13.04
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	2535	507000	14.00	13.06
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	2535	507000	14.00	13.08

n7 ANT4 (Power Level A1/B1)

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	25.00	24.20
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	25.00	24.25
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	25.00	24.02
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2550	510000	25.00	24.16
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2535	507000	25.00	24.29
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2520	504000	25.00	24.08

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108_54	2535	507000	25.00	24.24
2	Middle	15	40	DFT-s-OFDM 16QAM	Inner_Full	108_54	2535	507000	24.00	23.18
3	Middle	15	40	DFT-s-OFDM 64QAM	Inner_Full	108_54	2535	507000	22.50	21.71
4	Middle	15	40	DFT-s-OFDM 256QAM	Inner_Full	108_54	2535	507000	20.50	19.77
5	Middle	15	40	CP-OFDM QPSK	Inner_Full	108_54	2535	507000	23.50	22.69
6	Middle	15	40	CP-OFDM 16QAM	Inner_Full	108_54	2535	507000	23.00	22.18
7	Middle	15	40	CP-OFDM 64QAM	Inner_Full	108_54	2535	507000	21.50	20.79
8	Middle	15	40	CP-OFDM 256QAM	Inner_Full	108_54	2535	507000	18.50	17.81
9	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2_214	2535	507000	24.00	23.28
10	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	24.00	23.07
11	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Right	1_215	2535	507000	24.00	23.26
12	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	24.00	23.01
13	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1_214	2535	507000	25.00	24.22
14	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	25.00	24.03
15	Middle	15	40	DFT-s-OFDM QPSK	Outer_Full	216_0	2535	507000	24.00	23.22
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	25.00	24.16
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	25.00	24.18
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	25.00	24.17
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	2535	507000	25.00	24.15
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	2535	507000	25.00	24.21

n7 ANT4 (Power Level C1)

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2567.5	513500	17.00	16.50
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2535	507000	17.00	16.41
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2502.5	500500	17.00	16.34
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2550	510000	17.00	16.50
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2535	507000	17.00	16.61
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	2520	504000	17.00	16.38

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n7							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n7
1	Middle	15	40	DFT-s-OFDM PI/2 BPSK1	Inner_Full	108_54	2535	507000	17.00	16.43
2	Middle	15	40	DFT-s-OFDM 16QAM	Inner_Full	108_54	2535	507000	17.00	16.29
3	Middle	15	40	DFT-s-OFDM 64QAM	Inner_Full	108_54	2535	507000	17.00	16.46
4	Middle	15	40	DFT-s-OFDM 256QAM	Inner_Full	108_54	2535	507000	17.00	16.32
5	Middle	15	40	CP-OFDM QPSK	Inner_Full	108_54	2535	507000	17.00	16.48
6	Middle	15	40	CP-OFDM 16QAM	Inner_Full	108_54	2535	507000	17.00	16.44
7	Middle	15	40	CP-OFDM 64QAM	Inner_Full	108_54	2535	507000	17.00	16.49
8	Middle	15	40	CP-OFDM 256QAM	Inner_Full	108_54	2535	507000	17.00	16.29
9	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2_214	2535	507000	17.00	16.44
10	Middle	15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2535	507000	17.00	16.30
11	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Right	1_215	2535	507000	17.00	16.28
12	Middle	15	40	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2535	507000	17.00	16.35
13	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1_214	2535	507000	17.00	16.42
14	Middle	15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2535	507000	17.00	16.46
15	Middle	15	40	DFT-s-OFDM QPSK	Outer_Full	216_0	2535	507000	17.00	16.31
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	2535	507000	17.00	16.26
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	2535	507000	17.00	16.29
18	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	2535	507000	17.00	16.33
19	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	2535	507000	17.00	16.46
20	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	2535	507000	17.00	16.43

n26 ANT0 (Power Level A1/B1/C1/D1)

No.	Test Freq Description	5G-n20							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n20
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	25.5	24.22
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	831.5	166300	25.5	24.36
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	816.5	163300	25.5	24.30
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	25.5	24.17
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	831.5	166300	25.5	24.19
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	824	164800	25.5	24.18

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n20							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n20
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	831.5	166300	25.50	24.28
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	831.5	166300	24.50	23.21
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	831.5	166300	23.00	21.68
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	831.5	166300	21.00	19.73
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	831.5	166300	24.00	22.73
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	831.5	166300	23.50	22.30
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	831.5	166300	22.00	20.75
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	831.5	166300	19.00	17.60
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	831.5	166300	24.50	23.23
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	831.5	166300	24.50	23.24
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	831.5	166300	24.50	23.08
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	831.5	166300	24.50	23.13
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	831.5	166300	25.50	24.10
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	831.5	166300	25.50	24.16
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	831.5	166300	24.50	23.23
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	831.5	166300	25.50	24.08
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	831.5	166300	25.50	24.01

n26 ANT0 (Power Level E1)

No.	Test Freq Description	5G-n26							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n26
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	22.5	21.70
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	831.5	166300	22.5	21.79
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	816.5	163300	22.5	21.77
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	22.5	21.74
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	831.5	166300	22.5	21.75
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	824	164800	22.5	21.73

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n26							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n26
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	831.5	166300	22.50	21.77
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	831.5	166300	22.50	21.56
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	831.5	166300	22.50	21.58
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	831.5	166300	21.00	19.58
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	831.5	166300	22.50	21.83
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	831.5	166300	22.50	21.50
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	831.5	166300	22.00	20.62
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	831.5	166300	19.00	17.26
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	831.5	166300	22.50	21.65
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	831.5	166300	22.50	21.71
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	831.5	166300	22.50	21.63
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	831.5	166300	22.50	21.68
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	831.5	166300	22.50	21.63
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	831.5	166300	22.50	21.65
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	831.5	166300	22.50	21.80
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	831.5	166300	22.50	21.65
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	831.5	166300	22.50	21.63

n41 ANT4 (Power Level A1)

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	25	23.77
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	25	23.67
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	25	23.86
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2547.03	509406	25	23.82
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	25	23.71
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	25	23.69
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	25	23.71
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	25	23.74
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	25	23.83
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	25	23.74
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	25.00	23.71
2	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	24.00	22.69
3	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	22.50	21.13
4	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	20.50	19.18
5	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	23.50	22.07
6	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	23.00	21.62
7	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	21.50	20.11
8	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	18.50	17.03
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	24.00	22.58
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	24.00	22.61
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	24.00	22.62
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	24.00	22.61
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	25.00	23.61
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	25.00	23.59
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	2592.99	518598	24.00	22.63
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	25.00	23.64
17	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	25.00	23.64
18	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	25.00	23.61
19	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	25.00	23.59
20	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	25.00	23.58
21	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	25.00	23.53
22	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	25.00	23.68
23	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	25.00	23.72
24	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	25.00	23.73

n41 ANT4 (Power Level B1)

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	15.5	14.58
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	15.5	14.53
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	15.5	14.65
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2547.03	509406	15.5	14.58
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	15.5	14.57
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	15.5	14.61
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	15.5	14.57
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	15.5	14.56
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	15.5	14.58
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	15.5	14.56
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n41
1	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	15.50	14.52
2	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	15.50	14.38
3	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	15.50	14.44
4	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	15.50	14.59
5	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	15.50	14.42
6	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	15.50	14.57
7	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	15.50	14.45
8	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	15.50	14.58
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	15.50	14.41
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	15.50	14.39
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	15.50	14.50
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	15.50	14.58
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	15.50	14.50
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	15.50	14.53
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	2592.99	518598	15.50	14.43
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	15.50	14.41
17	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	15.50	14.36
18	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	15.50	14.44
19	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	15.50	14.51
20	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	15.50	14.57
21	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	15.50	14.42
22	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	15.50	14.36
23	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	15.50	14.54
24	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	15.50	14.40

n41 ANT4 (Power Level C1)

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	17	16.14
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	17	15.98
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	17	16.24
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2547.03	509406	17	16.03
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	17	16.12
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	17	16.03
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	17	16.05
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	17	16.05
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	17	16.12
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	17	16.11
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n41
1	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	17.00	16.18
2	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	17.00	16.00
3	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	17.00	16.07
4	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	17.00	16.02
5	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	17.00	16.08
6	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	17.00	15.94
7	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	17.00	16.01
8	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	17.00	16.01
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	17.00	16.01
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	17.00	16.00
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	17.00	15.90
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	17.00	15.92
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	17.00	16.08
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	17.00	15.92
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	2592.99	518598	17.00	16.01
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	17.00	16.01
17	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	17.00	15.92
18	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	17.00	15.95
19	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	17.00	16.03
20	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	17.00	16.08
21	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	17.00	15.91
22	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	17.00	16.01
23	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	17.00	16.12
24	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	17.00	16.17

n41 ANT4 (Power Level D1)

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	12.5	11.57
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	12.5	11.55
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	12.5	11.65
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2547.03	509406	12.5	11.55
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	12.5	11.60
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	12.5	11.61
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	12.5	11.57
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	12.5	11.53
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	12.5	11.63
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	12.5	11.60
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	12.50	11.48
2	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	12.50	11.39
3	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	12.50	11.47
4	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	12.50	11.56
5	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	12.50	11.46
6	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	12.50	11.57
7	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	12.50	11.47
8	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	12.50	11.55
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	12.50	11.38
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	12.50	11.35
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	12.50	11.54
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	12.50	11.53
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	12.50	11.48
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	12.50	11.55
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	2592.99	518598	12.50	11.44
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	12.50	11.40
17	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	12.50	11.32
18	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	12.50	11.48
19	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	12.50	11.54
20	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	12.50	11.60
21	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	12.50	11.47
22	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	12.50	11.39
23	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	12.50	11.53
24	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	12.50	11.37

n41 ANT4 (Power Level E1)

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2685	537000	14	13.17
2	Middle1	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2639	527799	14	12.99
3	Middle2	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2592.99	518598	14	13.20
4	Middle3	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2547.03	509406	14	13.03
5	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	2501.01	500205	14	13.14
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	14	13.04
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	14	13.05
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	14	13.03
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	14	13.14
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	14	13.14
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n41								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n41
1	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	14.00	13.18
2	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	14.00	12.99
3	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	14.00	13.11
4	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	14.00	13.03
5	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	14.00	13.05
6	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	14.00	12.96
7	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	14.00	13.00
8	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	14.00	12.98
9	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	14.00	13.06
10	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	14.00	12.96
11	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	14.00	12.89
12	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	14.00	12.94
13	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	14.00	13.03
14	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	14.00	12.94
15	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	2592.99	518598	14.00	13.02
16	Middle2	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	2592.99	518598	14.00	12.98
17	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	14.00	12.92
18	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	14.00	12.91
19	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	14.00	13.05
20	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	14.00	13.12
21	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	14.00	12.87
22	Middle2	30	70	DFT-s-OFDM QPSK	Inner_Full	90_45	2592.99	518598	14.00	13.06
23	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	14.00	13.11
24	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	14.00	13.15

n66 ANT1 (Power Level A1/B1)

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	24.5	24.11
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	24.5	24.18
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	24.5	24.14
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	24.5	24.04
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	24.5	24.09
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	24.5	24.05

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	default	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	24.5	24.12
2	default	15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	23.5	23.06
3	default	15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	22	21.55
4	default	15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	20	19.56
5	default	15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	23	22.56
6	default	15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	22.5	22.12
7	default	15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	21	20.56
8	default	15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	18	17.48
9	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	23.5	23.06
10	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	23.5	23.09
11	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	24.5	23.98
12	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	24.5	24.04
13	default	15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	23.5	23.12
14	default	15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	24.5	24.05
15	default	15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	24.5	24.11
16	default	15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	24.5	24.09
17	default	15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	24.5	24.10

n66 ANT1 (Power Level C1)

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	23.5	22.76
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	23.5	22.87
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	23.5	22.84
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	23.5	22.73
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	23.5	22.77
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	23.5	22.79

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	default	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	23.5	22.78
2	default	15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	23.5	22.79
3	default	15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	22	21.27
4	default	15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	20	19.29
5	default	15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	23	22.28
6	default	15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	22.5	21.83
7	default	15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	21	20.31
8	default	15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	18	17.23
9	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	23.5	22.78
10	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	23.5	22.80
11	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	23.5	22.67
12	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	23.5	22.74
13	default	15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	23.5	22.84
14	default	15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	23.5	22.81
15	default	15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	23.5	22.75
16	default	15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	23.5	22.82
17	default	15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	23.5	22.78

n66 ANT4 (Power Level A1)

No.	Test Freq Description	5G-n66								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	25	23.62
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	25	23.68
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	25	23.61
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	25	23.52
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	25	23.50
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	25	23.59

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n66								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n66
1	default	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	25	23.60
2	default	15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	24	22.52
3	default	15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	22.5	21.02
4	default	15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	20.5	19.03
5	default	15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	23.5	22.03
6	default	15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	23	21.61
7	default	15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	21.5	20.03
8	default	15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	18.5	16.99
9	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	24	22.51
10	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	24	22.48
11	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	25	23.42
12	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	25	23.43
13	default	15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	24	22.51
14	default	15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	25	23.47
15	default	15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	25	23.49
16	default	15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	25	23.47
17	default	15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	25	23.45

n66 ANT4 (Power Level D1)

No.	Test Freq Description	5G-n66								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	18.5	17.24
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	18.5	17.28
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	18.5	17.17
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	18.5	17.20
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	18.5	17.15
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	18.5	17.23

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n66								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n66
1	default	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	18.5	17.21
2	default	15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	18.5	16.96
3	default	15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	18.5	17.19
4	default	15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	18.5	17.01
5	default	15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	18.5	16.97
6	default	15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	18.5	17.04
7	default	15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	18.5	17.25
8	default	15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	18.5	17.12
9	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	18.5	17.22
10	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	18.5	16.94
11	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	18.5	17.24
12	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	18.5	17.26
13	default	15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	18.5	17.22
14	default	15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	18.5	17.23
15	default	15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	18.5	17.22
16	default	15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	18.5	17.21
17	default	15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	18.5	17.04

n66 ANT4 (Power Level E1)

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	21.5	20.21
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745	349000	21.5	20.25
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	21.5	20.21
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1770	354000	21.5	20.19
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745	349000	21.5	20.20
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1720	344000	21.5	20.22
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		n66
1	default	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	1745	349000	21.5	20.15
2	default	15	5	DFT-s-OFDM 16QAM	Inner_Full	12@6	1745	349000	21.5	20.14
3	default	15	5	DFT-s-OFDM 64QAM	Inner_Full	12@6	1745	349000	21.5	20.15
4	default	15	5	DFT-s-OFDM 256QAM	Inner_Full	12@6	1745	349000	20.5	18.67
5	default	15	5	CP-OFDM QPSK	Inner_Full	12@6	1745	349000	21.5	20.18
6	default	15	5	CP-OFDM 16QAM	Inner_Full	12@6	1745	349000	21.5	20.21
7	default	15	5	CP-OFDM 64QAM	Inner_Full	12@6	1745	349000	21.5	19.68
8	default	15	5	CP-OFDM 256QAM	Inner_Full	12@6	1745	349000	18.5	16.62
9	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2@23	1745	349000	21.5	20.15
10	default	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745	349000	21.5	20.20
11	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1@23	1745	349000	21.5	20.00
12	default	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745	349000	21.5	20.10
13	default	15	5	DFT-s-OFDM QPSK	Outer_Full	25@0	1745	349000	21.5	20.19
14	default	15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745	342064	21.5	20.11
15	default	15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745	347578	21.5	20.19
16	default	15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745	346120	21.5	20.21
17	default	15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745	345112	21.5	20.19

n77 ANT5 (Power Level A1)

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	24.5	23.71
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	24.5	23.79
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	24.5	23.67
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	24.5	23.68
8	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	24.5	23.77

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	24.5	23.75
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	23.5	22.77
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	22	21.23
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	20	19.32
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	23	22.21
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	22.5	21.75
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	21	20.09
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	18	17.18
1	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	23.5	22.73
6	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	23.5	22.75
9	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	24.5	23.66
10	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	24.5	23.68
11	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	23.5	22.74
18	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	24.5	23.72
19	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	24.5	23.76
20	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	24.5	23.66
22	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	24.5	23.71
23	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	24.5	23.75

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	24.5	23.91
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	24.5	23.84
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	24.5	23.64
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	24.5	23.61
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	24.5	23.72
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	24.5	23.79
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	24.5	23.75
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	24.5	23.68
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	24.5	23.64
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	24.5	23.68
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	24.5	23.81
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	24.5	23.89

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	24.5	23.85
2	High	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	23.5	22.89
3	High	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	22	21.32
4	High	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	20	19.48
5	High	30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	23	22.38
6	High	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	22.5	21.92
7	High	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	21	20.29
8	High	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	18	17.34
9	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	23.5	22.91
10	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	23.5	22.85
11	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	24.5	23.81
12	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	24.5	23.83
13	High	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	23.5	22.88
16	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	24.5	23.68
17	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	24.5	23.69
18	High	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	24.5	23.61
19	High	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	24.5	23.76
20	High	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	24.5	23.69

n77 ANT5 (Power Level B1)

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	13.5	12.16
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	13.5	12.46
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	13.5	12.44
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	13.5	12.35
8	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	13.5	12.35

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	13.5	12.38
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	13.5	12.25
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	13.5	12.16
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	13.5	12.35
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	13.5	12.27
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	13.5	12.21
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	13.5	12.32
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	13.5	12.27
1	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	13.5	12.28
6	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	13.5	12.34
9	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	13.5	12.17
10	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	13.5	12.29
11	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	13.5	12.33
18	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	13.5	12.25
19	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	13.5	12.34
20	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	13.5	12.20
22	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	13.5	12.21
23	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	13.5	12.30

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	13.5	12.42
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	13.5	12.06
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	13.5	12.13
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	13.5	12.26
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	13.5	12.38
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	13.5	12.30
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	13.5	12.25
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	13.5	12.23
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	13.5	12.25
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	13.5	12.24
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	13.5	12.32
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	13.5	12.36
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	13.5	12.35
2	High	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	13.5	12.26
3	High	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	13.5	12.22
4	High	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	13.5	12.23
5	High	30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	13.5	12.25
6	High	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	13.5	12.22
7	High	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	13.5	12.21
8	High	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	13.5	12.37
9	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	13.5	12.30
10	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	13.5	12.36
11	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	13.5	12.33
12	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	13.5	12.30
13	High	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	13.5	12.25
16	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	13.5	12.25
17	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	13.5	12.26
18	High	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	13.5	12.22
19	High	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	13.5	12.22
20	High	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	13.5	12.35

n77 ANT5 (Power Level C1)

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	15.5	14.16
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	15.5	14.43
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	15.5	14.41
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	15.5	14.36
8	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	15.5	14.38
According to the table above, the maximum power configuration is selected as the default test configuration										

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	15.5	14.27
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	15.5	14.33
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	15.5	14.29
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	15.5	14.29
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	15.5	14.38
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	15.5	14.25
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	15.5	14.32
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	15.5	14.33
1	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	15.5	14.20
6	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	15.5	14.36
9	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	15.5	14.31
10	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	15.5	14.40
11	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	15.5	14.29
18	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	15.5	14.21
19	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	15.5	14.27
20	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	15.5	14.22
22	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	15.5	14.31
23	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	15.5	14.22

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	15.5	14.38
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	15.5	14.32
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	15.5	14.25
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	15.5	14.26
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	15.5	14.31
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	15.5	14.30
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	15.5	14.26
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	15.5	14.22
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	15.5	14.24
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	15.5	14.26
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	15.5	14.33
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	15.5	14.32

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	15.5	14.22
2	High	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	15.5	14.21
3	High	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	15.5	14.23
4	High	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	15.5	14.25
5	High	30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	15.5	14.33
6	High	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	15.5	14.21
7	High	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	15.5	14.25
8	High	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	15.5	14.20
9	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	15.5	14.24
10	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	15.5	14.16
11	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	15.5	14.19
12	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	15.5	14.28
13	High	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	15.5	14.30
16	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	15.5	14.22
17	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	15.5	14.23
18	High	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	15.5	14.15
19	High	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	15.5	14.17
20	High	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	15.5	14.32

n77 ANT5 (Power Level D1)

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	10.5	9.16
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	10.5	9.38
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	10.5	9.36
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	10.5	9.34
8	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	10.5	9.35

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	10.5	9.34
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	10.5	9.22
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	10.5	9.25
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	10.5	9.21
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	10.5	9.31
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	10.5	9.33
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	10.5	9.20
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	10.5	9.23
1	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	10.5	9.18
6	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	10.5	9.25
9	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	10.5	9.27
10	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	10.5	9.27
11	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	10.5	9.33
18	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	10.5	9.34
19	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	10.5	9.17
20	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	10.5	9.27
22	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	10.5	9.35
23	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	10.5	9.31

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	10.5	9.31
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	10.5	9.27
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	10.5	9.13
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	10.5	9.22
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	10.5	9.28
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	10.5	9.28
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	10.5	9.25
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	10.5	9.18
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	10.5	9.21
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	10.5	9.21
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	10.5	9.29
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	10.5	9.30

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	10.5	9.10
2	High	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	10.5	9.27
3	High	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	10.5	9.26
4	High	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	10.5	9.20
5	High	30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	10.5	9.28
6	High	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	10.5	9.20
7	High	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	10.5	9.16
8	High	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	10.5	9.10
9	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	10.5	9.29
10	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	10.5	9.28
11	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	10.5	9.20
12	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	10.5	9.28
13	High	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	10.5	9.28
16	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	10.5	9.28
17	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	10.5	9.23
18	High	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	10.5	9.22
19	High	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	10.5	9.27
20	High	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	10.5	9.20

n77 ANT5 (Power Level E1)

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	12.5	11.15
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	12.5	11.43
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	12.5	11.41
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	12.5	11.33
8	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	12.5	11.36

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n77L(3450-3550MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	12.5	11.28
2	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	12.5	11.26
3	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	12.5	11.21
4	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	12.5	11.23
5	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	12.5	11.39
6	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	12.5	11.33
7	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	12.5	11.28
8	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	12.5	11.20
1	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	12.5	11.32
6	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	12.5	11.31
9	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	12.5	11.36
10	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	12.5	11.23
11	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	12.5	11.33
18	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	12.5	11.27
19	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	12.5	11.39
20	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	12.5	11.21
22	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	12.5	11.25
23	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	12.5	11.34

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	12.5	11.39
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	12.5	11.27
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	12.5	11.22
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	12.5	11.24
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	12.5	11.37
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	12.5	11.29
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	12.5	11.23
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	12.5	11.20
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	12.5	11.22
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	12.5	11.19
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	12.5	11.32
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	12.5	11.35

According to the table above, the maximum power configuration is selected as the default test configuration

No.	Test Freq Description	5G-n77H(3700-3980MHz)								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	n77
1	High	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	12.5	11.32
2	High	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	12.5	11.23
3	High	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	12.5	11.35
4	High	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	12.5	11.16
5	High	30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	12.5	11.22
6	High	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	12.5	11.21
7	High	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	12.5	11.33
8	High	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	12.5	11.22
9	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	12.5	11.22
10	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	12.5	11.16
11	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	12.5	11.29
12	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	12.5	11.22
13	High	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	12.5	11.23
16	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	12.5	11.17
17	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	12.5	11.22
18	High	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	12.5	11.28
19	High	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	12.5	11.34
20	High	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	12.5	11.32

11.5 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 10.32dBm.
The maximum tune up of BT antenna is 12.5dBm.

Table 11.5: Summary of Receiver detection mechanism-WIFI antenna

Antenna	**Receiver off+ Sensor off** (Normal power)	**Receiver on** (Head scenario)	**Receiver off+ Sensor on** (Body scenario)
WIFI Antenna	Power Level A1	Power Level B1	Power Level C1

The average conducted power for Wi-Fi 2.4G is as following-Power Level A1

802.11b		
Channel\data rate	1Mbps	Tune up
11(2462MHz)	19.23	20.50
6(2437(MHz)	19.02	20.50
1(2412MHz)	19.24	20.50
802.11g		
Channel\data rate	6Mbps	Tune up
2(2417MHz)	18.03	19.50
6(2437(MHz)	17.83	19.50
10(2457MHz)	17.71	19.50
802.11n-20MHz		
Channel\data rate	MCS0	Tune up
2(2417MHz)	17.83	19.50
6(2437(MHz)	17.76	19.50
10(2457MHz)	17.62	19.50

The average conducted power for Wi-Fi 2.4G is as following-Power Level B1

802.11b		
Channel\data rate	1Mbps	Tune up
11(2462MHz)	12.36	13.50
6(2437(MHz)	12.05	13.50
1(2412MHz)	12.47	13.50
802.11g		
Channel\data rate	6Mbps	Tune up
11(2462MHz)	12.16	13.50
6(2437(MHz)	12.09	13.50
1(2412MHz)	12.37	13.50
802.11n-20MHz		
Channel\data rate	MCS0	Tune up
11(2462MHz)	11.95	13.50
6(2437(MHz)	11.84	13.50
1(2412MHz)	12.28	13.50

The average conducted power for Wi-Fi 2.4G is as following-Power Level C1

802.11b		
Channel\data rate	1Mbps	Tune up
11(2462MHz)	14.38	15.50
6(2437(MHz)	14.14	15.50
1(2412MHz)	14.39	15.50
802.11g		
Channel\data rate	6Mbps	Tune up
11(2462MHz)	14.21	15.50
6(2437(MHz)	14.09	15.50
1(2412MHz)	14.27	15.50
802.11n-20MHz		
Channel\data rate	MCS0	Tune up
11(2462MHz)	14.02	15.50
6(2437(MHz)	13.86	15.50
1(2412MHz)	14.19	15.50

The average conducted power for Wi-Fi 5G is as following-Power Level A1

802.11a(dBm)		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	18.24	19.50
40(5200 MHz)	18.35	19.50
44(5220 MHz)	18.58	19.50
48(5240 MHz)	18.55	19.50
52(5260 MHz)	18.54	19.50
56(5280 MHz)	18.67	19.50
60(5300 MHz)	18.65	19.50
64(5320 MHz)	17.10	18.00
100(5500 MHz)	15.55	16.50
104(5520 MHz)	18.48	19.50
108(5540 MHz)	18.46	19.50
112(5560 MHz)	18.44	19.50
116(5580 MHz)	18.55	19.50
120(5600 MHz)	18.47	19.50
124(5620 MHz)	18.58	19.50
128(5640 MHz)	18.51	19.50
132(5660 MHz)	18.39	19.50
136(5680 MHz)	18.38	19.50
140(5700 MHz)	14.20	15.50
144(5720 MHz)	18.19	19.50
149(5745 MHz)	18.14	19.50
153(5765 MHz)	18.16	19.50
157(5785 MHz)	18.22	19.50
161(5805 MHz)	18.35	19.50
165(5825 MHz)	18.13	19.50

802.11n(dBm)-20MHz		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	17.04	18.50
40(5200 MHz)	17.13	18.50
44(5220 MHz)	17.42	18.50
48(5240 MHz)	17.41	18.50
52(5260 MHz)	17.43	18.50
56(5280 MHz)	17.54	18.50
60(5300 MHz)	17.53	18.50
64(5320 MHz)	16.97	18.00
100(5500 MHz)	15.47	16.50
104(5520 MHz)	17.49	18.50
108(5540 MHz)	17.43	18.50
112(5560 MHz)	17.41	18.50
116(5580 MHz)	17.56	18.50
120(5600 MHz)	17.39	18.50
124(5620 MHz)	17.47	18.50
128(5640 MHz)	17.44	18.50
132(5660 MHz)	17.35	18.50
136(5680 MHz)	17.37	18.50
140(5700 MHz)	14.23	15.50
144(5720 MHz)	17.27	18.50
149(5745 MHz)	17.21	18.50
153(5765 MHz)	17.10	18.50
157(5785 MHz)	17.21	18.50
161(5805 MHz)	17.24	18.50
165(5825 MHz)	17.15	18.50

802.11ac(dBm)-20MHz		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	17.06	18.50
40(5200 MHz)	17.15	18.50
44(5220 MHz)	17.35	18.50
48(5240 MHz)	17.38	18.50
52(5260 MHz)	17.45	18.50
56(5280 MHz)	17.52	18.50
60(5300 MHz)	17.49	18.50
64(5320 MHz)	16.72	18.00
100(5500 MHz)	15.35	16.50
104(5520 MHz)	17.34	18.50
108(5540 MHz)	17.48	18.50
112(5560 MHz)	17.43	18.50
116(5580 MHz)	17.58	18.50
120(5600 MHz)	17.49	18.50
124(5620 MHz)	17.49	18.50
128(5640 MHz)	17.51	18.50
132(5660 MHz)	17.39	18.50
136(5680 MHz)	17.28	18.50
140(5700 MHz)	14.16	15.50
144(5720 MHz)	17.01	18.50
149(5745 MHz)	17.35	18.50
153(5765 MHz)	17.13	18.50
157(5785 MHz)	17.31	18.50
161(5805 MHz)	17.12	18.50
165(5825 MHz)	17.16	18.50

802.11n(dBm)-40MHz		
Channel\data rate	MCS0	Tune up
38(5190 MHz)	16.26	17.50
46(5230 MHz)	17.24	18.50
54(5270 MHz)	17.49	18.50
62(5310 MHz)	15.80	17.00
102(5510 MHz)	13.88	15.00
110(5550 MHz)	17.33	18.50
118(5590 MHz)	17.16	18.50
126(5630 MHz)	17.31	18.50
134(5670 MHz)	17.26	18.50
142(5710 MHz)	17.19	18.50
151(5755 MHz)	17.08	18.50
159(5795 MHz)	17.05	18.50

802.11ac(dBm)-40MHz		
Channel\data rate	MCS0	Tune up
38(5190 MHz)	16.35	17.50
46(5230 MHz)	17.33	18.50
54(5270 MHz)	17.31	18.50
62(5310 MHz)	15.82	17.00
102(5510 MHz)	13.86	15.00
110(5550 MHz)	17.34	18.50
118(5590 MHz)	17.18	18.50
126(5630 MHz)	17.31	18.50
134(5670 MHz)	17.23	18.50
142(5710 MHz)	17.14	18.50
151(5755 MHz)	17.12	18.50
159(5795 MHz)	17.07	18.50

802.11ac(dBm)-80MHz		
Channel\data rate	MCS0	Tune up
42(5210 MHz)	15.55	17.00
58(5290 MHz)	14.66	16.00
106(5530 MHz)	13.57	15.00
122(5610 MHz)	17.11	18.50
138(5690 MHz)	17.12	18.50
155(5775 MHz)	17.08	18.50

The average conducted power for Wi-Fi 5G is as following-Power Level B1

802.11a(dBm)		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	11.12	12.50
40(5200 MHz)	11.28	12.50
44(5220 MHz)	11.24	12.50
48(5240 MHz)	11.25	12.50
52(5260 MHz)	11.43	12.50
56(5280 MHz)	11.38	12.50
60(5300 MHz)	11.51	12.50
64(5320 MHz)	11.44	12.50
100(5500 MHz)	11.54	12.50
104(5520 MHz)	11.39	12.50
108(5540 MHz)	11.44	12.50
112(5560 MHz)	11.37	12.50
116(5580 MHz)	11.47	12.50
120(5600 MHz)	11.53	12.50
124(5620 MHz)	11.53	12.50
128(5640 MHz)	11.49	12.50
132(5660 MHz)	11.46	12.50
136(5680 MHz)	11.37	12.50
140(5700 MHz)	11.28	12.50
144(5720 MHz)	11.29	12.50
149(5745 MHz)	11.26	12.50
153(5765 MHz)	11.21	12.50
157(5785 MHz)	11.19	12.50
161(5805 MHz)	11.16	12.50
165(5825 MHz)	11.28	12.50

802.11n(dBm)-20MHz		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	11.08	12.50
40(5200 MHz)	11.25	12.50
44(5220 MHz)	11.22	12.50
48(5240 MHz)	11.24	12.50
52(5260 MHz)	11.22	12.50
56(5280 MHz)	11.33	12.50
60(5300 MHz)	11.32	12.50
64(5320 MHz)	11.41	12.50
100(5500 MHz)	11.28	12.50
104(5520 MHz)	11.24	12.50
108(5540 MHz)	11.26	12.50
112(5560 MHz)	11.29	12.50
116(5580 MHz)	11.47	12.50
120(5600 MHz)	11.41	12.50
124(5620 MHz)	11.41	12.50
128(5640 MHz)	11.31	12.50
132(5660 MHz)	11.29	12.50
136(5680 MHz)	11.23	12.50
140(5700 MHz)	11.24	12.50
144(5720 MHz)	11.12	12.50
149(5745 MHz)	11.18	12.50
153(5765 MHz)	11.04	12.50
157(5785 MHz)	11.09	12.50
161(5805 MHz)	11.15	12.50
165(5825 MHz)	11.17	12.50

802.11ac(dBm)-20MHz		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	11.09	12.50
40(5200 MHz)	11.24	12.50
44(5220 MHz)	11.25	12.50
48(5240 MHz)	11.23	12.50
52(5260 MHz)	11.29	12.50
56(5280 MHz)	11.36	12.50
60(5300 MHz)	11.29	12.50
64(5320 MHz)	11.36	12.50
100(5500 MHz)	11.34	12.50
104(5520 MHz)	11.27	12.50
108(5540 MHz)	11.29	12.50
112(5560 MHz)	11.26	12.50
116(5580 MHz)	11.49	12.50
120(5600 MHz)	11.41	12.50
124(5620 MHz)	11.35	12.50
128(5640 MHz)	11.33	12.50
132(5660 MHz)	11.27	12.50
136(5680 MHz)	11.25	12.50
140(5700 MHz)	11.23	12.50
144(5720 MHz)	11.09	12.50
149(5745 MHz)	11.12	12.50
153(5765 MHz)	11.03	12.50
157(5785 MHz)	11.06	12.50
161(5805 MHz)	11.09	12.50
165(5825 MHz)	11.11	12.50

802.11n(dBm)-40MHz		
Channel\data rate	MCS0	Tune up
38(5190 MHz)	11.21	12.50
46(5230 MHz)	11.19	12.50
54(5270 MHz)	11.37	12.50
62(5310 MHz)	11.44	12.50
102(5510 MHz)	11.45	12.50
110(5550 MHz)	11.38	12.50
118(5590 MHz)	11.41	12.50
126(5630 MHz)	11.43	12.50
134(5670 MHz)	11.35	12.50
142(5710 MHz)	11.18	12.50
151(5755 MHz)	11.19	12.50
159(5795 MHz)	11.14	12.50

802.11ac(dBm)-40MHz		
Channel\data rate	MCS0	Tune up
38(5190 MHz)	11.23	12.50
46(5230 MHz)	11.16	12.50
54(5270 MHz)	11.35	12.50
62(5310 MHz)	11.41	12.50
102(5510 MHz)	11.42	12.50
110(5550 MHz)	11.35	12.50
118(5590 MHz)	11.43	12.50
126(5630 MHz)	11.46	12.50
134(5670 MHz)	11.24	12.50
142(5710 MHz)	11.23	12.50
151(5755 MHz)	11.16	12.50
159(5795 MHz)	11.08	12.50

802.11ac(dBm)-80MHz		
Channel\data rate	MCS0	Tune up
42(5210 MHz)	10.82	12.50
58(5290 MHz)	11.12	12.50
106(5530 MHz)	10.99	12.50
122(5610 MHz)	11.08	12.50
138(5690 MHz)	10.96	12.50
155(5775 MHz)	10.89	12.50

The average conducted power for Wi-Fi 5G is as following-Power Level C1

802.11a(dBm)		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	13.21	14.50
40(5200 MHz)	13.39	14.50
44(5220 MHz)	13.46	14.50
48(5240 MHz)	13.41	14.50
52(5260 MHz)	13.35	14.50
56(5280 MHz)	13.56	14.50
60(5300 MHz)	13.68	14.50
64(5320 MHz)	13.54	14.50
100(5500 MHz)	13.55	14.50
104(5520 MHz)	13.41	14.50
108(5540 MHz)	13.42	14.50
112(5560 MHz)	13.48	14.50
116(5580 MHz)	13.59	14.50
120(5600 MHz)	13.57	14.50
124(5620 MHz)	13.66	14.50
128(5640 MHz)	13.56	14.50
132(5660 MHz)	13.53	14.50
136(5680 MHz)	13.54	14.50
140(5700 MHz)	13.39	14.50
144(5720 MHz)	13.21	14.50
149(5745 MHz)	13.35	14.50
153(5765 MHz)	13.34	14.50
157(5785 MHz)	13.28	14.50
161(5805 MHz)	13.32	14.50
165(5825 MHz)	13.43	14.50

802.11n(dBm)-20MHz		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	13.11	14.50
40(5200 MHz)	13.03	14.50
44(5220 MHz)	13.02	14.50
48(5240 MHz)	13.22	14.50
52(5260 MHz)	13.42	14.50
56(5280 MHz)	13.39	14.50
60(5300 MHz)	13.37	14.50
64(5320 MHz)	13.36	14.50
100(5500 MHz)	13.25	14.50
104(5520 MHz)	13.27	14.50
108(5540 MHz)	13.23	14.50
112(5560 MHz)	13,29	14.50
116(5580 MHz)	13.31	14.50
120(5600 MHz)	13.42	14.50
124(5620 MHz)	13.38	14.50
128(5640 MHz)	13.46	14.50
132(5660 MHz)	13.35	14.50
136(5680 MHz)	13.28	14.50
140(5700 MHz)	13.41	14.50
144(5720 MHz)	13.47	14.50
149(5745 MHz)	13.18	14.50
153(5765 MHz)	13.14	14.50
157(5785 MHz)	13.12	14.50
161(5805 MHz)	13.02	14.50
165(5825 MHz)	13.15	14.50

802.11ac(dBm)-20MHz		
Channel\data rate	6Mbps	Tune up
36(5180 MHz)	12.87	14.50
40(5200 MHz)	13.01	14.50
44(5220 MHz)	13.05	14.50
48(5240 MHz)	13.21	14.50
52(5260 MHz)	13.25	14.50
56(5280 MHz)	13.37	14.50
60(5300 MHz)	13.39	14.50
64(5320 MHz)	13.32	14.50
100(5500 MHz)	13.23	14.50
104(5520 MHz)	13.22	14.50
108(5540 MHz)	13.21	14.50
112(5560 MHz)	13.32	14.50
116(5580 MHz)	13.33	14.50
120(5600 MHz)	13.36	14.50
124(5620 MHz)	13.34	14.50
128(5640 MHz)	13.34	14.50
132(5660 MHz)	13.25	14.50
136(5680 MHz)	13.21	14.50
140(5700 MHz)	13.29	14.50
144(5720 MHz)	13.17	14.50
149(5745 MHz)	12.96	14.50
153(5765 MHz)	13.08	14.50
157(5785 MHz)	13.11	14.50
161(5805 MHz)	12.95	14.50
165(5825 MHz)	13.03	14.50

802.11n(dBm)-40MHz		
Channel\data rate	MCS0	Tune up
38(5190 MHz)	13.11	14.50
46(5230 MHz)	13.05	14.50
54(5270 MHz)	13.27	14.50
62(5310 MHz)	13.36	14.50
102(5510 MHz)	13.39	14.50
110(5550 MHz)	13.26	14.50
118(5590 MHz)	13.41	14.50
126(5630 MHz)	13.37	14.50
134(5670 MHz)	13.44	14.50
142(5710 MHz)	13.17	14.50
151(5755 MHz)	13.21	14.50
159(5795 MHz)	13.08	14.50

802.11ac(dBm)-40MHz		
Channel\data rate	MCS0	Tune up
38(5190 MHz)	13.24	14.50
46(5230 MHz)	13.17	14.50
54(5270 MHz)	13.26	14.50
62(5310 MHz)	13.39	14.50
102(5510 MHz)	13.31	14.50
110(5550 MHz)	13.27	14.50
118(5590 MHz)	13.36	14.50
126(5630 MHz)	13.39	14.50
134(5670 MHz)	13.47	14.50
142(5710 MHz)	13.18	14.50
151(5755 MHz)	13.09	14.50
159(5795 MHz)	13.12	14.50

802.11ac(dBm)-80MHz		
Channel\data rate	MCS0	Tune up
42(5210 MHz)	12.86	14.50
58(5290 MHz)	13.18	14.50
106(5530 MHz)	12.75	14.50
122(5610 MHz)	13.06	14.50
138(5690 MHz)	12.73	14.50
155(5775 MHz)	12.75	14.50

12 Simultaneous TX SAR Considerations

12.1 Introduction

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

	WLAN	
1	WLAN 2.4GHz + BT	No
2	WLAN 2.4GHz + WLAN 5GHz	No
3	WLAN 5GHz + BT	Yes
WWAN +WLAN		
1	WWAN+WLAN 2.4GHz + BT	No
2	WWAN+WLAN 2.4GHz + WLAN 5GHz	No
3	WWAN+WLAN 5GHz + BT	Yes
4	WWAN+WLAN 2.4GHz	Yes
5	WWAN+WLAN 5GHz	Yes
6	WWAN+BT	Yes

12.2 Transmit Antenna Separation Distances

Please refer to the file < The Photos of SAR test - 24T04Z200172-013>.

12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
WWAN-ANT0	Yes	Yes	Yes	Yes	No	Yes
WWAN-ANT1	Yes	Yes	Yes	No	No	Yes
WWAN-ANT4	Yes	Yes	Yes	No	Yes	No
WWAN-ANT5	Yes	Yes	No	Yes	Yes	No
WIFI-ANT6	Yes	Yes	No	Yes	Yes	No

13 Evaluation of Simultaneous

The sum of reported SAR values for WWAN +WiFi

Reported SAR 1g (W/kg)																												
State		1																						2	3	4		
Head		G850 ANT0	G900 ANT1	WCDMA 1900 ANT1	WCDMA 1700 ANT1	WCDMA 850 ANT0	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT4	LTE B7 DL CA ANT0	LTE B12(17) ANT0	LTE B26 ANT0	LTE B41(38) ANT4	LTE B41(38) DL CA ANT0	LTE B66(4) ANT1	N5 ANT0	N7 ANT4	N7 DL CA ANT0	N26 ANT0	N41 ANT4	N66 ANT1	N77 ANT5	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	1+2	1+3+4
Cheek	Left	0.33	0.25	0.56	0.35	0.30	0.57	0.33	0.18	0.07	0.21	0.34	0.20	0.12	0.48	0.22	0.18	0.09	0.22	0.14	0.32	0.66	0.28	0.16	0.25	0.94	1.07
Tilt	Left	0.20	0.16	0.20	0.20	0.20	0.37	0.31	0.27	0.06	0.16	0.25	0.31	0.11	0.23	0.13	0.26	0.09	0.17	0.19	0.15	0.56	0.32	0.20	0.28	0.88	1.04
Cheek	Right	0.40	0.13	0.19	0.20	0.39	0.28	0.31	0.62	0.13	0.23	0.34	0.67	0.17	0.24	0.30	0.48	0.16	0.31	0.44	0.19	0.42	0.08	0.13	0.07	0.75	0.87
Tilt	Right	0.23	0.11	0.18	0.17	0.23	0.28	0.25	0.79	0.07	0.14	0.21	0.78	0.00	0.18	0.16	0.56	0.08	0.19	0.49	0.14	0.48	0.09	0.16	0.08	0.88	1.03

State		1																						2	3	4		
Hotspot		G850 ANT0	G900 ANT1	WCDMA 1900 ANT1	WCDMA 1700 ANT1	WCDMA 850 ANT0	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT4	LTE B7 DL CA ANT0	LTE B12(17) ANT0	LTE B26 ANT0	LTE B41(38) ANT4	LTE B41(38) DL CA ANT0	LTE B66(4) ANT1	N5 ANT0	N7 ANT4	N7 DL CA ANT0	N26 ANT0	N41 ANT4	N66 ANT1	N77 ANT5	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	1+2	1+3+4
Front	10mm	0.49	0.35	0.46	0.35	0.25	0.49	0.26	0.22	0.17	0.22	0.64	0.19	0.09	0.39	0.13	0.16	0.16	0.48	0.17	0.47	0.22	0.08	0.11	0.05	0.72	0.80
Rear	10mm	0.66	0.44	0.99	0.48	0.39	0.69	0.32	0.45	0.23	0.31	0.71	0.28	0.12	0.56	0.18	0.39	0.20	0.54	0.32	0.58	0.22	0.09	0.28	0.03	1.08	1.30
Left	10mm	0.16	0.39	0.46	0.49	0.13	0.40	0.15	0.77	0.06	0.19	0.25	0.42	0.00	0.46	0.12	0.65	0.09	0.13	0.74	0.35					0.77	0.77
Right	10mm	0.34	0.00	0.06	0.13	0.19	0.06	0.23	0.06	0.17	0.30	0.41	0.05	0.27	0.13	0.19		0.26	0.22		0.08	0.09	0.09	0.09	0.06	0.50	0.56
Bottom	10mm	0.59	0.31	0.48	0.41	0.31	0.51	0.33		0.36	0.21	0.68		0.19	0.50	0.16		0.35	0.53		0.39					0.68	0.68
Top	10mm								0.56				0.31				0.44			0.41		0.34	0.09	0.29	0.08	0.65	0.93

State		1																						2	3	4		
Body (Sensor off)		G850 ANT0	G900 ANT1	WCDMA 1900 ANT1	WCDMA 1700 ANT1	WCDMA 850 ANT0	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT4	LTE B7 DL CA ANT0	LTE B12(17) ANT0	LTE B26 ANT0	LTE B41(38) ANT4	LTE B41(38) DL CA ANT0	LTE B66(4) ANT1	N5 ANT0	N7 ANT4	N7 DL CA ANT0	N26 ANT0	N41 ANT4	N66 ANT1	N77 ANT5	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	1+2	1+3+4
Front	12/13/14/18mm	0.31	0.56	0.80	0.54	0.23	0.46	0.27	0.69	0.61			0.30	0.60	0.45	0.24	0.47	0.66		0.54	0.43	0.91	0.11	0.19	0.05	1.02	1.15
Rear	18/19/24mm	0.27	0.33	0.34	0.36	0.32	0.35	0.26	0.73	0.55			0.24	0.55	0.27	0.23	0.48	0.54		0.49	0.22	0.68	0.11	0.48	0.03	0.84	1.24
Right	14mm																					0.64	0.21	0.22	0.06	0.85	0.92
Bottom	12/18mm	0.18	0.51	0.56	0.68	0.15	0.42	0.17		0.79				0.79	0.53	0.14		0.78			0.39					0.79	0.79
Top	18/24mm								0.79				0.31				0.58			0.58		0.88	0.16	0.44	0.08	1.04	1.40

The sum of reported SAR values for ENDC (n5 ANT0 relative combination)

Reported SAR 1g (W/kg)											
State		1	2			3	4	5	6	6+3	6+4+5
Head		N5 ANT0	LTE B2 ANT4	LTE B7 ANT4	LTE B66 ANT4	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Cheek	Left	0.22	0.31	0.12	0.25	0.28	0.16	0.25	0.53	0.81	0.94
Tilt	Left	0.13	0.38	0.17	0.31	0.32	0.20	0.28	0.51	0.83	0.99
Cheek	Right	0.30	0.43	0.31	0.37	0.08	0.13	0.07	0.73	0.81	0.93
Tilt	Right	0.16	0.50	0.39	0.33	0.09	0.16	0.08	0.66	0.75	0.90

State		1	2			3	4	5	6	6+3	6+4+5
Hotspot		N5 ANT0	LTE B2 ANT4	LTE B7 ANT4	LTE B66 ANT4	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Front	10mm	0.07	0.23	0.12	0.29	0.08	0.11	0.05	0.36	0.44	0.52
Rear	10mm	0.10	0.31	0.25	0.46	0.09	0.28	0.03	0.56	0.65	0.87
Left	10mm	0.12	0.37	0.77	0.14				0.89	0.89	0.89
Right	10mm	0.19	0.12	0.06	0.06	0.09	0.09	0.06	0.31	0.40	0.46
Bottom	10mm	0.08							0.08	0.08	0.08
Top	10mm		0.36	0.30	0.53	0.09	0.29	0.08	0.53	0.62	0.90

State		1	2			3	4	5	6	6+3	6+4+5
Body (Sensor off)		N5 ANT0	LTE B2 ANT4	LTE B7 ANT4	LTE B66 ANT4	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Front	12/13/14/18mm	0.24	0.63	0.69	0.28	0.11	0.19	0.05	0.93	1.04	1.17
Rear	18/19/24mm	0.23	0.48	0.73	0.20	0.11	0.48	0.03	0.96	1.07	1.47
Right	14mm					0.21	0.22	0.06	0.00	0.21	0.28
Bottom	12/18mm	0.14							0.14	0.14	0.14
Top	18/24mm		0.64	0.79	0.25	0.16	0.44	0.08	0.79	0.95	1.31

The sum of reported SAR values for ENDC (n7 ANT4 relative combination)

Reported SAR 1g (W/kg)											
State		1	2			3	4	5	6		
Head		N7 ANT4	LTE B2 ANT1	LTE B5 ANT0	LTE B66(4) ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Cheek	Left	0.05	0.57	0.33	0.48	0.28	0.16	0.25	0.62	0.90	1.03
Tilt	Left	0.08	0.37	0.31	0.23	0.32	0.20	0.28	0.45	0.77	0.93
Cheek	Right	0.24	0.28	0.31	0.24	0.08	0.13	0.07	0.55	0.63	0.75
Tilt	Right	0.29	0.28	0.25	0.18	0.09	0.16	0.08	0.57	0.66	0.81

State		1	2			3	4	5	6		
Hotspot		N7 ANT4	LTE B2 ANT1	LTE B5 ANT0	LTE B66(4) ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Front	10mm	0.09	0.25	0.10	0.20	0.08	0.11	0.05	0.34	0.42	0.50
Rear	10mm	0.18	0.34	0.13	0.29	0.09	0.28	0.03	0.52	0.61	0.83
Left	10mm	0.65	0.40	0.15	0.46				1.11	1.11	1.11
Right	10mm		0.06	0.23	0.13	0.09	0.09	0.06	0.23	0.32	0.38
Bottom	10mm		0.27	0.11	0.25				0.27	0.27	0.27
Top	10mm	0.22				0.09	0.29	0.08	0.22	0.31	0.59

State		1	2			3	4	5	6		
Body (Sensor off)		N7 ANT4	LTE B2 ANT1	LTE B5 ANT0	LTE B66(4) ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Front	12/13/14/18mm	0.47	0.46	0.27	0.45	0.11	0.19	0.05	0.93	1.04	1.17
Rear	18/19/24mm	0.48	0.35	0.26	0.27	0.11	0.48	0.03	0.83	0.94	1.34
Right	14mm					0.21	0.22	0.06	0.00	0.21	0.28
Bottom	12/18mm		0.42	0.17	0.53				0.53	0.53	0.53
Top	18/24mm	0.58				0.16	0.44	0.08	0.58	0.74	1.10

The sum of reported SAR values for ENDC (n26 ANT0 relative combination)

Reported SAR 1g (W/kg)									
State		1	2	3	4	5	6	6+3	6+4+5
Head		N26 ANT0	LTE B7 ANT4	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Cheek	Left	0.22	0.12	0.28	0.16	0.25	0.34	0.62	0.75
Tilt	Left	0.17	0.17	0.32	0.20	0.28	0.34	0.66	0.82
Cheek	Right	0.31	0.31	0.08	0.13	0.07	0.62	0.70	0.82
Tilt	Right	0.19	0.39	0.09	0.16	0.08	0.58	0.67	0.82

State		1	2	3	4	5	6	6+3	6+4+5
Hotspot		N26 ANT0	LTE B7 ANT4	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Front	10mm	0.21	0.12	0.08	0.11	0.05	0.33	0.41	0.49
Rear	10mm	0.29	0.25	0.09	0.28	0.03	0.54	0.63	0.85
Left	10mm	0.13	0.77				0.90	0.90	0.90
Right	10mm	0.22	0.06	0.09	0.09	0.06	0.28	0.37	0.43
Bottom	10mm	0.27					0.27	0.27	0.27
Top	10mm		0.30	0.09	0.29	0.08	0.30	0.39	0.67

State		1	2	3	4	5	6	6+3	6+4+5
Body (Sensor off)		N26 ANT0	LTE B7 ANT4	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Front	12/13/14/18mm	0.21	0.69	0.11	0.19	0.05	0.90	1.01	1.14
Rear	18/19/24mm	0.29	0.73	0.11	0.48	0.03	1.02	1.13	1.53
Right	14mm			0.21	0.22	0.06	0.00	0.21	0.28
Bottom	12/18mm	0.27					0.27	0.27	0.27
Top	18/24mm		0.79	0.16	0.44	0.08	0.79	0.95	1.31

The sum of reported SAR values for ENDC (n41 ANT4 relative combination)

Reported SAR 1g (W/kg)											
State		1	2			3	4	5	6	6+3	6+4+5
Head		N41 ANT4	LTE B66(4) ANT1	LTE B12 ANT0	LTE B26 ANT0	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Cheek	Left	0.06	0.48	0.21	0.34	0.28	0.16	0.25	0.54	0.82	0.95
Tilt	Left	0.09	0.23	0.16	0.25	0.32	0.20	0.28	0.34	0.66	0.82
Cheek	Right	0.20	0.24	0.23	0.34	0.08	0.13	0.07	0.54	0.62	0.74
Tilt	Right	0.23	0.18	0.14	0.21	0.09	0.16	0.08	0.44	0.53	0.68

State		1	2			3	4	5	6	6+3	6+4+5
Hotspot		N41 ANT4	LTE B66(4) ANT1	LTE B12 ANT0	LTE B26 ANT0	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Front	10mm	0.08	0.20	0.22	0.64	0.08	0.11	0.05	0.72	0.80	0.88
Rear	10mm	0.17	0.29	0.31	0.71	0.09	0.28	0.03	0.88	0.97	1.19
Left	10mm	0.74	0.46	0.19	0.25				1.20	1.20	1.20
Right	10mm		0.13	0.30	0.41	0.09	0.09	0.06	0.41	0.50	0.56
Bottom	10mm		0.25	0.21	0.68				0.68	0.68	0.68
Top	10mm	0.21				0.09	0.29	0.08	0.21	0.30	0.58

State		1	2			3	4	5	6	6+3	6+4+5
Body (Sensor off)		N41 ANT4	LTE B66(4) ANT1	LTE B12 ANT0	LTE B26 ANT0	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2		
Front	12/13/14/18mm	0.54	0.45	0.22	0.64	0.11	0.19	0.05	1.18	1.29	1.42
Rear	18/19/24mm	0.49	0.27	0.31	0.22	0.11	0.48	0.03	0.80	0.91	1.31
Right	14mm			0.30	0.41	0.21	0.22	0.06	0.41	0.62	0.69
Bottom	12/18mm		0.53	0.22					0.53	0.53	0.53
Top	18/24mm	0.58		0.31		0.16	0.44	0.08	0.89	1.05	1.41

The sum of reported SAR values for ENDC (n66 ANT4 relative combination)

Reported SAR 1g (W/kg)												
State		1	2				3	4	5	6		
Head		N66 ANT4	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Cheek	Left	0.27	0.57	0.33	0.07	0.21	0.28	0.16	0.25	0.84	1.12	1.25
Tilt	Left	0.43	0.37	0.31	0.06	0.16	0.32	0.20	0.28	0.80	1.12	1.28
Cheek	Right	0.34	0.28	0.31	0.13	0.23	0.08	0.13	0.07	0.65	0.73	0.85
Tilt	Right	0.48	0.28	0.25	0.07	0.14	0.09	0.16	0.08	0.76	0.85	1.00

State		1	2				3	4	5	6		
Hotspot		N66 ANT4	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Front	10mm	0.24	0.25	0.10	0.08	0.22	0.08	0.11	0.05	0.49	0.57	0.65
Rear	10mm	0.32	0.34	0.13	0.11	0.31	0.09	0.28	0.03	0.66	0.75	0.97
Left	10mm	0.11	0.40	0.15	0.06	0.19				0.51	0.51	0.51
Right	10mm		0.06	0.23	0.17	0.30	0.09	0.09	0.06	0.30	0.39	0.45
Bottom	10mm		0.27	0.11	0.18	0.21				0.27	0.27	0.27
Top	10mm	0.33					0.09	0.29	0.08	0.33	0.42	0.70

State		1	2				3	4	5	6		
Body (Sensor off)		N66 ANT4	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Front	12/13/14/18mm	0.24	0.46	0.27	0.61	0.22	0.11	0.19	0.05	0.85	0.96	1.09
Rear	18/19/24mm	0.20	0.35	0.26	0.55	0.31	0.11	0.48	0.03	0.75	0.86	1.26
Right	14mm					0.30	0.21	0.22	0.06	0.30	0.51	0.58
Bottom	12/18mm		0.42	0.17	0.79	0.21				0.79	0.79	0.79
Top	18/24mm	0.26					0.16	0.44	0.08	0.26	0.42	0.78

The sum of reported SAR values for ENDC (n77 ANT5 relative combination)

Reported SAR 1g (W/kg)														
State		1	2						3	4	5	6		
Head		N77 ANT5	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	LTE B41 ANT0	LTE B66 ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Cheek	Left	0.35	0.57	0.33	0.07	0.21	0.12	0.48	0.28	0.16	0.25	0.92	1.20	1.33
Tilt	Left	0.34	0.37	0.31	0.06	0.16	0.11	0.23	0.32	0.20	0.28	0.71	1.03	1.19
Cheek	Right	0.24	0.28	0.31	0.13	0.23	0.17	0.24	0.08	0.13	0.07	0.55	0.63	0.75
Tilt	Right	0.23	0.28	0.25	0.07	0.14	0.00	0.18	0.09	0.16	0.08	0.51	0.60	0.75

State		1	2						3	4	5	6		
Hotspot		N77 ANT5	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	LTE B41 ANT0	LTE B66 ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Front	10mm	0.12	0.25	0.10	0.08	0.22	0.04	0.20	0.08	0.11	0.05	0.37	0.45	0.53
Rear	10mm	0.11	0.34	0.13	0.11	0.31	0.06	0.29	0.09	0.28	0.03	0.45	0.54	0.76
Left	10mm		0.40	0.15	0.06	0.19	0.00	0.46				0.46	0.46	0.46
Right	10mm	0.10	0.06	0.23	0.17	0.30	0.27	0.13	0.09	0.09	0.06	0.40	0.49	0.55
Bottom	10mm		0.27	0.11	0.18	0.21	0.10	0.25				0.27	0.27	0.27
Top	10mm	0.17							0.09	0.29	0.08	0.17	0.26	0.54

State		1	2						3	4	5	6		
Body (Sesor off)		N77 ANT5	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	LTE B41 ANT0	LTE B66 ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	**ENDC 1+2**	**6+3**	**6+4+5**
Front	12/13/14/18mm	0.91	0.38	0.27	0.42	0.22	0.42	0.28	0.11	0.19	0.05	1.33	1.44	1.57
Rear	18/19/24mm	0.68	0.35	0.26	0.35	0.31	0.32	0.27	0.11	0.48	0.03	1.03	1.14	1.54
Right	14mm	0.64				0.30			0.21	0.22	0.06	0.94	1.15	1.22
Bottom	12/18mm		0.42	0.17	0.79	0.21	0.79	0.53				0.79	0.79	0.79
Top	18/24mm	0.88							0.16	0.44	0.08	0.88	1.04	1.40

The sum of reported SAR values for ENDC (n78 ANT5 relative combination)

Reported SAR 1g (W/kg)															
State		1	2							3	4	5	6		
Head		N78 ANT5	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	LTE B26 ANT0	LTE B41(38) ANT0	LTE B66(4) ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2	6+3	6+4+5
Cheek	Left	0.35	0.57	0.33	0.07	0.21	0.34	0.12	0.48	0.28	0.16	0.25	0.92	1.20	1.33
Tilt	Left	0.34	0.37	0.31	0.06	0.16	0.25	0.11	0.23	0.32	0.20	0.28	0.71	1.03	1.19
Cheek	Right	0.24	0.28	0.31	0.13	0.23	0.34	0.17	0.24	0.08	0.13	0.07	0.58	0.66	0.78
Tilt	Right	0.23	0.28	0.25	0.07	0.14	0.21	0.00	0.18	0.09	0.16	0.08	0.51	0.60	0.75

State		1	2							3	4	5	6		
Hotspot		N78 ANT5	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	LTE B26 ANT0	LTE B41(38) ANT0	LTE B66(4) ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2	6+3	6+4+5
Front	10mm	0.12	0.25	0.10	0.08	0.22	0.64	0.04	0.20	0.08	0.11	0.05	0.76	0.84	0.92
Rear	10mm	0.11	0.34	0.13	0.11	0.31	0.71	0.06	0.29	0.09	0.28	0.03	0.82	0.91	1.13
Left	10mm		0.40	0.15	0.06	0.19	0.25	0.00	0.46				0.46	0.46	0.46
Right	10mm	0.10	0.06	0.23	0.17	0.30	0.41	0.27	0.13	0.09	0.09	0.06	0.51	0.60	0.66
Bottom	10mm		0.27	0.11	0.18	0.21	0.68	0.10	0.25				0.68	0.68	0.68
Top	10mm	0.17								0.09	0.29	0.08	0.17	0.26	0.54

State		1	2							3	4	5	6		
Body (Sensor off)		N78 ANT5	LTE B2 ANT1	LTE B5 ANT0	LTE B7 ANT0	LTE B12 ANT0	LTE B26 ANT0	LTE B41(38) ANT0	LTE B66(4) ANT1	WiFi 2.4G ANT6	WiFi 5G ANT6	BT ANT6	ENDC 1+2	6+3	6+4+5
Front	12/13/14/18mm	0.91	0.38	0.27	0.42	0.22	0.27	0.42	0.28	0.11	0.19	0.05	1.33	1.44	1.57
Rear	18/19/24mm	0.68	0.35	0.26	0.35	0.31	0.19	0.32	0.27	0.11	0.48	0.03	1.03	1.14	1.54
Right	14mm	0.64				0.30	0.41			0.21	0.22	0.06	1.05	1.26	1.33
Bottom	12/18mm		0.42	0.17	0.79	0.21	0.68	0.79	0.53				0.79	0.79	0.79
Top	18/24mm	0.88								0.16	0.44	0.08	0.88	1.04	1.40

14 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

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:

≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.

> 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.

- For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
- When it is unclear, all equivalent conditions must be tested.

For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.

- The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

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 ≤ 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 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 14.1: Duty Cycle

Mode	Duty Cycle
GSM 850/1900	1:4
GPRS/EGPRS 850/1900	1:4
WCDMA&LTE FDD	1:1
LTE TDD	1:1.58

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

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	Head	GSM850	190	836.6	GPRS(2)	Cheek Left	0mm	\	30.52	32	0.236	**0.33**	0.178	**0.25**	-0.09
0	Head	GSM850	190	836.6	GPRS(2)	Tilt Left	0mm	\	30.52	32	0.142	**0.20**	0.111	**0.16**	0.11
0	Head	GSM850	251	848.8	GPRS(2)	Cheek Right	0mm	1	30.58	32	0.291	**0.40**	0.225	**0.31**	0.04
0	Head	GSM850	190	836.6	GPRS(2)	Cheek Right	0mm	\	30.52	32	0.273	**0.38**	0.212	**0.30**	-0.13
0	Head	GSM850	128	824.2	GPRS(2)	Cheek Right	0mm	\	30.47	32	0.258	**0.37**	0.191	**0.27**	-0.18
0	Head	GSM850	190	836.6	GPRS(2)	Tilt Right	0mm	\	30.52	32	0.161	**0.23**	0.125	**0.18**	-0.13
0	Head	GSM850	251	848.8	EGPRS(2)	Cheek Right	0mm	\	30.57	32	0.278	**0.39**	0.221	**0.31**	-0.09
0	Body	GSM850	190	836.6	GPRS(2)	Front	14mm	\	30.52	32	0.22	**0.31**	0.138	**0.19**	0.05
0	Body	GSM850	190	836.6	GPRS(2)	Rear	18mm	\	30.52	32	0.194	**0.27**	0.146	**0.21**	-0.12
0	Body	GSM850	190	836.6	GPRS(2)	Left	10mm	\	30.52	32	0.115	**0.16**	0.083	**0.12**	0.03
0	Body	GSM850	251	848.8	GPRS(2)	Right	10mm	\	30.58	32	0.245	**0.34**	0.169	**0.23**	-0.01
0	Body	GSM850	190	836.6	GPRS(2)	Right	10mm	\	30.52	32	0.219	**0.31**	0.149	**0.21**	0.1
0	Body	GSM850	128	824.2	GPRS(2)	Right	10mm	\	30.47	32	0.176	**0.25**	0.122	**0.17**	0.08
0	Body	GSM850	190	836.6	GPRS(2)	Bottom	18mm	\	30.52	32	0.13	**0.18**	0.076	**0.11**	-0.12
0	Body	GSM850	190	836.6	GPRS(2)	Front	10mm	\	29.76	31	0.369	**0.49**	0.219	**0.29**	0.13
0	Body	GSM850	251	848.8	GPRS(2)	Rear	10mm	2	29.72	31	0.492	**0.66**	0.281	**0.38**	0.02
0	Body	GSM850	190	836.6	GPRS(2)	Rear	10mm	\	29.76	31	0.465	**0.62**	0.28	**0.37**	0.14
0	Body	GSM850	128	824.2	GPRS(2)	Rear	10mm	\	29.75	31	0.389	**0.52**	0.228	**0.30**	0.04
0	Body	GSM850	190	836.6	GPRS(2)	Bottom	10mm	\	29.76	31	0.445	**0.59**	0.216	**0.29**	-0.01
0	Body	GSM850	251	848.8	EGPRS(2)	Rear	10mm	\	29.72	31	0.485	**0.65**	0.278	**0.37**	-0.11
1	Head	GSM1900	810	1909.8	GPRS(2)	Cheek Left	0mm	\	27.54	29	0.156	**0.22**	0.1	**0.14**	-0.07
1	Head	GSM1900	661	1880	GPRS(2)	Cheek Left	0mm	3	27.59	29	0.184	**0.25**	0.12	**0.17**	-0.09
1	Head	GSM1900	512	1850.2	GPRS(2)	Cheek Left	0mm	\	27.54	29	0.172	**0.24**	0.113	**0.16**	-0.12
1	Head	GSM1900	661	1880	GPRS(2)	Tilt Left	0mm	\	27.59	29	0.117	**0.16**	0.072	**0.10**	-0.16
1	Head	GSM1900	661	1880	GPRS(2)	Cheek Right	0mm	\	27.59	29	0.094	**0.13**	0.06	**0.08**	-0.09
1	Head	GSM1900	661	1880	GPRS(2)	Tilt Right	0mm	\	27.59	29	0.081	**0.11**	0.052	**0.07**	-0.11
1	Head	GSM1900	661	1880	EGPRS(2)	Cheek Left	0mm	\	27.63	29	0.178	**0.24**	0.115	**0.16**	0.11
1	Body	GSM1900	810	1909.8	GPRS(2)	Front	12mm	\	27.54	29	0.339	**0.47**	0.2	**0.28**	-0.12
1	Body	GSM1900	661	1880	GPRS(2)	Front	12mm	4	27.59	29	0.408	**0.56**	0.236	**0.33**	0.04
1	Body	GSM1900	512	1850.2	GPRS(2)	Front	12mm	\	27.54	29	0.38	**0.53**	0.223	**0.31**	0.03
1	Body	GSM1900	661	1880	GPRS(2)	Rear	18mm	\	27.59	29	0.239	**0.33**	0.146	**0.20**	0.11
1	Body	GSM1900	661	1880	GPRS(2)	Left	10mm	\	27.59	29	0.285	**0.39**	0.167	**0.23**	0.09
1	Body	GSM1900	661	1880	GPRS(2)	Bottom	12mm	\	27.59	29	0.371	**0.51**	0.206	**0.29**	-0.04
1	Body	GSM1900	661	1880	GPRS(2)	Front	10mm	\	25.3	26.5	0.269	**0.35**	0.157	**0.21**	0.08
1	Body	GSM1900	810	1909.8	GPRS(2)	Rear	10mm	\	25.23	26.5	0.318	**0.43**	0.181	**0.24**	0.14
1	Body	GSM1900	661	1880	GPRS(2)	Rear	10mm	\	25.3	26.5	0.337	**0.44**	0.191	**0.25**	-0.04
1	Body	GSM1900	512	1850.2	GPRS(2)	Rear	10mm	\	25.48	26.5	0.251	**0.32**	0.147	**0.19**	0.04
1	Body	GSM1900	661	1880	GPRS(2)	Bottom	10mm	\	25.3	26.5	0.236	**0.31**	0.131	**0.17**	0.07
1	Head	WCDMA1900	9538	1907.6	RMC	Cheek Left	0mm	\	23.66	25.5	0.202	**0.31**	0.123	**0.19**	0.06
1	Head	WCDMA1900	9400	1880	RMC	Cheek Left	0mm	\	23.69	25.5	0.239	**0.36**	0.146	**0.22**	-0.07
1	Head	WCDMA1900	9262	1852.4	RMC	Cheek Left	0mm	5	23.76	25.5	0.378	**0.56**	0.23	**0.34**	-0.09
1	Head	WCDMA1900	9400	1880	RMC	Tilt Left	0mm	\	23.69	25.5	0.135	**0.20**	0.081	**0.12**	-0.08
1	Head	WCDMA1900	9400	1880	RMC	Cheek Right	0mm	\	23.69	25.5	0.124	**0.19**	0.079	**0.12**	0.12
1	Head	WCDMA1900	9400	1880	RMC	Tilt Right	0mm	\	23.69	25.5	0.119	**0.18**	0.072	**0.11**	0.11
1	Body	WCDMA1900	9538	1907.6	RMC	Front	12mm	\	23.66	25.5	0.329	**0.50**	0.185	**0.28**	-0.09
1	Body	WCDMA1900	9400	1880	RMC	Front	12mm	\	23.69	25.5	0.399	**0.61**	0.214	**0.32**	0.06
1	Body	WCDMA1900	9262	1852.4	RMC	Front	12mm	\	23.76	25.5	0.534	**0.80**	0.304	**0.45**	-0.04
1	Body	WCDMA1900	9400	1880	RMC	Rear	18mm	\	23.69	25.5	0.227	**0.34**	0.128	**0.19**	0.1
1	Body	WCDMA1900	9400	1880	RMC	Left	10mm	\	23.69	25.5	0.301	**0.46**	0.162	**0.25**	-0.05
1	Body	WCDMA1900	9400	1880	RMC	Bottom	12mm	\	23.69	25.5	0.367	**0.56**	0.196	**0.30**	-0.14
1	Body	WCDMA1900	9400	1880	RMC	Front	10mm	\	21.83	23	0.348	**0.46**	0.207	**0.27**	-0.01
1	Body	WCDMA1900	9538	1907.6	RMC	Rear	10mm	\	21.82	23	0.383	**0.50**	0.223	**0.29**	0.04
1	Body	WCDMA1900	9400	1880	RMC	Rear	10mm	\	21.83	23	0.492	**0.64**	0.281	**0.37**	0.09
1	Body	WCDMA1900	9262	1852.4	RMC	Rear	10mm	6	21.89	23	0.77	**0.99**	0.445	**0.57**	-0.01
1	Body	WCDMA1900	9400	1880	RMC	Bottom	10mm	\	21.83	23	0.37	**0.48**	0.212	**0.28**	-0.08
1	Body	WCDMA1900	9262	1852.4	RMC	Rear	10mm	SIM2	21.89	23	0.754	**0.97**	0.435	**0.56**	0.16
1	Head	WCDMA1700	1513	1752.6	RMC	Cheek Left	0mm	\	23.93	25.5	0.224	**0.32**	0.139	**0.20**	0.04
1	Head	WCDMA1700	1412	1732.4	RMC	Cheek Left	0mm	7	23.91	25.5	0.242	**0.35**	0.15	**0.22**	0.18
1	Head	WCDMA1700	1312	1712.4	RMC	Cheek Left	0mm	\	23.85	25.5	0.23	**0.34**	0.143	**0.21**	0.16
1	Head	WCDMA1700	1412	1732.4	RMC	Tilt Left	0mm	\	23.91	25.5	0.14	**0.20**	0.085	**0.12**	0.07
1	Head	WCDMA1700	1412	1732.4	RMC	Cheek Right	0mm	\	23.91	25.5	0.139	**0.20**	0.087	**0.13**	0.03
1	Head	WCDMA1700	1412	1732.4	RMC	Tilt Right	0mm	\	23.91	25.5	0.121	**0.17**	0.072	**0.10**	0.16
1	Body	WCDMA1700	1412	1732.4	RMC	Front	12mm	\	23.91	25.5	0.374	**0.54**	0.224	**0.32**	0.02
1	Body	WCDMA1700	1412	1732.4	RMC	Rear	18mm	\	23.91	25.5	0.253	**0.36**	0.153	**0.22**	0.12
1	Body	WCDMA1700	1412	1732.4	RMC	Left	10mm	\	23.91	25.5	0.338	**0.49**	0.205	**0.30**	-0.08
1	Body	WCDMA1700	1513	1752.6	RMC	Bottom	12mm	\	23.93	25.5	0.461	**0.66**	0.269	**0.39**	0.02
1	Body	WCDMA1700	1412	1732.4	RMC	Bottom	12mm	\	23.91	25.5	0.438	**0.63**	0.253	**0.36**	0.06
1	Body	WCDMA1700	1312	1712.4	RMC	Bottom	12mm	8	23.85	25.5	0.465	**0.68**	0.268	**0.39**	-0.03
1	Body	WCDMA1700	1412	1732.4	RMC	Front	10mm	\	22.25	23.5	0.262	**0.35**	0.156	**0.21**	0.10
1	Body	WCDMA1700	1513	1752.6	RMC	Rear	10mm	\	22.21	23.5	0.357	**0.48**	0.208	**0.28**	0.01
1	Body	WCDMA1700	1412	1732.4	RMC	Rear	10mm	\	22.25	23.5	0.334	**0.45**	0.196	**0.26**	0.11
1	Body	WCDMA1700	1312	1712.4	RMC	Rear	10mm	\	22.23	23.5	0.338	**0.45**	0.2	**0.27**	0.04
1	Body	WCDMA1700	1412	1732.4	RMC	Bottom	10mm	\	22.25	23.5	0.311	**0.41**	0.175	**0.23**	-0.05

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	Head	WCDMA 850	4183	836.6	RMC	Cheek Left	0mm	\	24.57	26	0.218	**0.30**	0.182	**0.25**	-0.13
0	Head	WCDMA 850	4183	836.6	RMC	Tilt Left	0mm	\	24.57	26	0.146	**0.20**	0.123	**0.17**	-0.08
0	Head	WCDMA 850	4233	846.6	RMC	Cheek Right	0mm	9	24.55	26	0.279	**0.39**	0.227	**0.32**	0.05
0	Head	WCDMA 850	4183	836.6	RMC	Cheek Right	0mm	\	24.57	26	0.267	**0.37**	0.218	**0.30**	0.04
0	Head	WCDMA 850	4132	826.4	RMC	Cheek Right	0mm	\	24.67	26	0.244	**0.33**	0.2	**0.27**	-0.04
0	Head	WCDMA 850	4183	836.6	RMC	Tilt Right	0mm	\	24.57	26	0.163	**0.23**	0.135	**0.19**	0.05
0	Body	WCDMA 850	4183	836.6	RMC	Front	14mm	\	24.57	26	0.162	**0.23**	0.12	**0.17**	-0.11
0	Body	WCDMA 850	4233	846.6	RMC	Rear	18mm	\	24.55	26	0.228	**0.32**	0.138	**0.19**	0.03
0	Body	WCDMA 850	4183	836.6	RMC	Rear	18mm	\	24.57	26	0.16	**0.22**	0.12	**0.17**	0.07
0	Body	WCDMA 850	4132	826.4	RMC	Rear	18mm	\	24.67	26	0.178	**0.24**	0.134	**0.18**	-0.07
0	Body	WCDMA 850	4183	836.6	RMC	Left	10mm	\	24.57	26	0.097	**0.13**	0.066	**0.09**	0.02
0	Body	WCDMA 850	4183	836.6	RMC	Right	10mm	\	24.57	26	0.135	**0.19**	0.094	**0.13**	-0.01
0	Body	WCDMA 850	4183	836.6	RMC	Bottom	18mm	\	24.57	26	0.109	**0.15**	0.064	**0.09**	0.05
0	Body	WCDMA 850	4183	836.6	RMC	Front	10mm	\	21.73	23	0.187	**0.25**	0.114	**0.15**	-0.11
0	Body	WCDMA 850	4233	846.6	RMC	Rear	10mm	10	21.7	23	0.289	**0.39**	0.169	**0.23**	0.09
0	Body	WCDMA 850	4183	836.6	RMC	Rear	10mm	\	21.73	23	0.243	**0.33**	0.148	**0.20**	0.06
0	Body	WCDMA 850	4132	826.4	RMC	Rear	10mm	\	21.72	23	0.214	**0.29**	0.131	**0.18**	-0.12
0	Body	WCDMA 850	4183	836.6	RMC	Bottom	10mm	\	21.73	23	0.229	**0.31**	0.118	**0.16**	-0.17
1	Head	LTE Band2	18900	1880	1RB-Mid	Cheek Left	0mm	11	23.45	24.5	0.447	**0.57**	0.283	**0.36**	0.01
1	Head	LTE Band2	18900	1880	1RB-Mid	Tilt Left	0mm	\	23.45	24.5	0.288	**0.37**	0.177	**0.23**	0.10
1	Head	LTE Band2	18900	1880	1RB-Mid	Cheek Right	0mm	\	23.45	24.5	0.221	**0.28**	0.146	**0.19**	0.05
1	Head	LTE Band2	18900	1880	1RB-Mid	Tilt Right	0mm	\	23.45	24.5	0.216	**0.28**	0.132	**0.17**	-0.09
1	Head	LTE Band2	18900	1880	50RB-Mid	Cheek Left	0mm	\	22.43	23.5	0.392	**0.50**	0.248	**0.32**	0.10
1	Head	LTE Band2	18900	1880	50RB-Mid	Tilt Left	0mm	\	22.43	23.5	0.212	**0.27**	0.128	**0.16**	0.18
1	Head	LTE Band2	18900	1880	50RB-Mid	Cheek Right	0mm	\	22.43	23.5	0.173	**0.22**	0.114	**0.15**	-0.05
1	Head	LTE Band2	18900	1880	50RB-Mid	Tilt Right	0mm	\	22.43	23.5	0.165	**0.21**	0.101	**0.13**	-0.12
1	Body	LTE Band2	18900	1880	1RB-Mid	Front	12mm	\	23.45	24.5	0.359	**0.46**	0.206	**0.26**	-0.15
1	Body	LTE Band2	18900	1880	1RB-Mid	Rear	18mm	\	23.45	24.5	0.271	**0.35**	0.164	**0.21**	0.01
1	Body	LTE Band2	18900	1880	1RB-Mid	Left	10mm	\	23.45	24.5	0.313	**0.40**	0.177	**0.23**	0.09
1	Body	LTE Band2	18900	1880	1RB-Mid	Bottom	12mm	\	23.45	24.5	0.333	**0.42**	0.185	**0.24**	0.07
1	Body	LTE Band2	18900	1880	50RB-Mid	Front	12mm	\	22.43	23.5	0.287	**0.37**	0.164	**0.21**	-0.06
1	Body	LTE Band2	18900	1880	50RB-Mid	Rear	18mm	\	22.43	23.5	0.215	**0.28**	0.131	**0.17**	0.02
1	Body	LTE Band2	18900	1880	50RB-Mid	Left	10mm	\	22.43	23.5	0.253	**0.32**	0.144	**0.18**	0.13
1	Body	LTE Band2	18900	1880	50RB-Mid	Bottom	12mm	\	22.43	23.5	0.312	**0.40**	0.172	**0.22**	0.07
1	Body	LTE Band2	18900	1880	1RB-Mid	Front	18mm	\	23.45	24.5	0.295	**0.38**	0.185	**0.24**	0.01
1	Body	LTE Band2	18900	1880	1RB-Low	Front	10mm	\	21.73	23	0.359	**0.48**	0.215	**0.29**	0.04
1	Body	LTE Band2	18900	1880	1RB-Low	Rear	10mm	\	21.73	23	0.509	**0.68**	0.296	**0.40**	-0.04
1	Body	LTE Band2	18900	1880	1RB-Low	Bottom	10mm	\	21.73	23	0.384	**0.51**	0.224	**0.30**	-0.01
1	Body	LTE Band2	18900	1880	50RB-Mid	Front	10mm	\	21.68	23	0.362	**0.49**	0.216	**0.29**	0.11
1	Body	LTE Band2	18900	1880	50RB-Mid	Rear	10mm	12	21.68	23	0.512	**0.69**	0.295	**0.40**	0.02
1	Body	LTE Band2	18900	1880	50RB-Mid	Bottom	10mm	\	21.68	23	0.333	**0.45**	0.191	**0.26**	-0.17
1	Body	LTE Band2	18900	1880	1RB-Low	Front	10mm	Note1	18.68	20	0.185	**0.25**	0.109	**0.15**	0.12
1	Body	LTE Band2	18900	1880	1RB-Low	Rear	10mm	Note1	18.68	20	0.254	**0.34**	0.145	**0.20**	0.11
1	Body	LTE Band2	18900	1880	1RB-Low	Bottom	10mm	Note1	18.68	20	0.199	**0.27**	0.111	**0.15**	0.08
1	Body	LTE Band2	18900	1880	50RB-High	Front	10mm	Note1	18.69	20	0.171	**0.23**	0.101	**0.14**	-0.11
1	Body	LTE Band2	18900	1880	50RB-High	Rear	10mm	Note1	18.69	20	0.239	**0.32**	0.136	**0.18**	0.05
1	Body	LTE Band2	18900	1880	50RB-High	Bottom	10mm	Note1	18.69	20	0.169	**0.23**	0.097	**0.13**	-0.16
0	Head	LTE Band5	20525	836.5	1RB-Low	Cheek Left	0mm	13	24	25.5	0.233	**0.33**	0.18	**0.25**	0.04
0	Head	LTE Band5	20525	836.5	1RB-Low	Tilt Left	0mm	\	24	25.5	0.216	**0.31**	0.169	**0.24**	-0.17
0	Head	LTE Band5	20525	836.5	1RB-Low	Cheek Right	0mm	\	24	25.5	0.216	**0.31**	0.164	**0.23**	-0.02
0	Head	LTE Band5	20525	836.5	1RB-Low	Tilt Right	0mm	\	24	25.5	0.145	**0.20**	0.113	**0.16**	-0.02
0	Head	LTE Band5	20525	836.5	25RB-Mid	Cheek Left	0mm	\	23.06	24.5	0.183	**0.25**	0.14	**0.20**	0.10
0	Head	LTE Band5	20525	836.5	25RB-Mid	Tilt Left	0mm	\	23.06	24.5	0.153	**0.21**	0.121	**0.17**	-0.11
0	Head	LTE Band5	20525	836.5	25RB-Mid	Cheek Right	0mm	\	23.06	24.5	0.166	**0.23**	0.125	**0.17**	-0.16
0	Head	LTE Band5	20525	836.5	25RB-Mid	Tilt Right	0mm	\	23.06	24.5	0.177	**0.25**	0.14	**0.20**	-0.02
0	Body	LTE Band5	20525	836.5	1RB-Low	Front	14mm	\	24	25.5	0.192	**0.27**	0.115	**0.16**	0.07
0	Body	LTE Band5	20525	836.5	1RB-Low	Rear	18mm	\	24	25.5	0.181	**0.26**	0.11	**0.16**	-0.02
0	Body	LTE Band5	20525	836.5	1RB-Low	Left	10mm	\	24	25.5	0.105	**0.15**	0.057	**0.08**	-0.10
0	Body	LTE Band5	20525	836.5	1RB-Low	Right	10mm	\	24	25.5	0.161	**0.23**	0.091	**0.13**	0.08
0	Body	LTE Band5	20525	836.5	1RB-Low	Bottom	18mm	\	24	25.5	0.118	**0.17**	0.055	**0.08**	0.02
0	Body	LTE Band5	20525	836.5	25RB-Mid	Front	14mm	\	23.06	24.5	0.157	**0.22**	0.094	**0.13**	-0.09
0	Body	LTE Band5	20525	836.5	25RB-Mid	Rear	18mm	\	23.06	24.5	0.145	**0.20**	0.088	**0.12**	-0.07
0	Body	LTE Band5	20525	836.5	25RB-Mid	Left	10mm	\	23.06	24.5	0.091	**0.13**	0.049	**0.07**	0.14
0	Body	LTE Band5	20525	836.5	25RB-Mid	Right	10mm	\	23.06	24.5	0.135	**0.19**	0.075	**0.10**	0.10
0	Body	LTE Band5	20525	836.5	25RB-Mid	Bottom	18mm	\	23.06	24.5	0.092	**0.13**	0.043	**0.06**	-0.05
0	Body	LTE Band5	20525	836.5	1RB-Low	Front	10mm	\	22.05	23.5	0.177	**0.25**	0.139	**0.19**	0.05
0	Body	LTE Band5	20525	836.5	1RB-Low	Rear	10mm	\	22.05	23.5	0.231	**0.32**	0.144	**0.20**	-0.08
0	Body	LTE Band5	20525	836.5	1RB-Low	Bottom	10mm	14	22.05	23.5	0.235	**0.33**	0.15	**0.21**	0.02
0	Body	LTE Band5	20525	836.5	25RB-Low	Front	10mm	\	22.03	23.5	0.182	**0.26**	0.141	**0.20**	0.09
0	Body	LTE Band5	20525	836.5	25RB-Low	Rear	10mm	\	22.03	23.5	0.231	**0.32**	0.177	**0.25**	0.12
0	Body	LTE Band5	20525	836.5	25RB-Low	Bottom	10mm	\	22.03	23.5	0.171	**0.24**	0.116	**0.16**	-0.06
0	Body	LTE Band5	20525	836.5	1RB-Low	Front	10mm	Note1	17.46	19	0.064	**0.09**	0.04	**0.06**	0.15
0	Body	LTE Band5	20525	836.5	1RB-Low	Rear	10mm	Note1	17.46	19	0.085	**0.12**	0.051	**0.07**	0.13
0	Body	LTE Band5	20525	836.5	1RB-Low	Bottom	10mm	Note1	17.46	19	0.076	**0.11**	0.037	**0.05**	-0.07
0	Body	LTE Band5	20525	836.5	25RB-Low	Front	10mm	Note1	17.41	19	0.069	**0.10**	0.041	**0.06**	-0.04
0	Body	LTE Band5	20525	836.5	25RB-Low	Rear	10mm	Note1	17.41	19	0.09	**0.13**	0.053	**0.08**	0.17
0	Body	LTE Band5	20525	836.5	25RB-Low	Bottom	10mm	Note1	17.41	19	0.076	**0.11**	0.041	**0.06**	0.01

Note1: The results are only for Power Level E1.

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
4	Head	LTE Band7	21100	2535	1RB-Low	Cheek Left	0mm	\	15.69	17	0.13	**0.18**	0.07	**0.09**	-0.11
4	Head	LTE Band7	21100	2535	1RB-Low	Tilt Left	0mm	\	15.69	17	0.199	**0.27**	0.097	**0.13**	-0.09
4	Head	LTE Band7	21100	2535	1RB-Low	Cheek Right	0mm	\	15.69	17	0.453	**0.61**	0.228	**0.31**	-0.17
4	Head	LTE Band7	21100	2535	1RB-Low	Tilt Right	0mm	\	15.69	17	0.565	**0.76**	0.25	**0.34**	0.17
4	Head	LTE Band7	21100	2535	50RB-Low	Cheek Left	0mm	\	15.64	17	0.13	**0.18**	0.069	**0.09**	0.15
4	Head	LTE Band7	21100	2535	50RB-Low	Tilt Left	0mm	\	15.64	17	0.193	**0.26**	0.095	**0.13**	-0.08
4	Head	LTE Band7	21100	2535	50RB-Low	Cheek Right	0mm	\	15.64	17	0.451	**0.62**	0.226	**0.31**	-0.14
4	Head	LTE Band7	21100	2535	50RB-Low	Tilt Right	0mm	15	15.64	17	0.577	**0.79**	0.253	**0.35**	0.02
4	Head	LTE Band7	20850	2510	ULCA_7C	Tilt Right	0mm	\	15.57	17	0.536	**0.75**	0.241	**0.33**	-0.09
4	Head	LTE Band7	21100	2535	50RB-Low	Tilt Right	0mm	SIM2	15.64	17	0.557	**0.76**	0.243	**0.33**	-0.06
4	Head	LTE Band7	21100	2535	1RB-Low	Cheek Left	0mm	Note2	12.68	14	0.09	**0.12**	0.043	**0.06**	0.07
4	Head	LTE Band7	21100	2535	1RB-Low	Tilt Left	0mm	Note2	12.68	14	0.129	**0.17**	0.058	**0.08**	0.17
4	Head	LTE Band7	21100	2535	1RB-Low	Cheek Right	0mm	Note2	12.68	14	0.231	**0.31**	0.116	**0.16**	-0.07
4	Head	LTE Band7	21100	2535	1RB-Low	Tilt Right	0mm	Note2	12.68	14	0.291	**0.39**	0.127	**0.17**	-0.13
4	Head	LTE Band7	21100	2535	50RB-Low	Cheek Left	0mm	Note2	12.65	14	0.078	**0.11**	0.038	**0.05**	0.07
4	Head	LTE Band7	21100	2535	50RB-Low	Tilt Left	0mm	Note2	12.65	14	0.122	**0.17**	0.056	**0.08**	0.05
4	Head	LTE Band7	21100	2535	50RB-Low	Cheek Right	0mm	Note2	12.65	14	0.229	**0.31**	0.116	**0.16**	0.08
4	Head	LTE Band7	21100	2535	50RB-Low	Tilt Right	0mm	Note2	12.65	14	0.281	**0.38**	0.126	**0.17**	-0.14
4	Body	LTE Band7	21100	2535	1RB-Mid	Front	13mm	\	23.47	24.5	0.546	**0.69**	0.284	**0.36**	-0.14
4	Body	LTE Band7	21100	2535	1RB-Mid	Rear	19mm	\	23.47	24.5	0.578	**0.73**	0.284	**0.36**	0.07
4	Body	LTE Band7	21100	2535	1RB-Mid	Left	10mm	\	23.47	24.5	0.61	**0.77**	0.317	**0.40**	-0.02
4	Body	LTE Band7	21100	2535	1RB-Mid	Right	10mm	\	23.47	24.5	0.051	**0.06**	0.017	**0.02**	0.09
4	Body	LTE Band7	21100	2535	1RB-Mid	Top	18mm	16	23.47	24.5	0.622	**0.79**	0.311	**0.39**	0.05
4	Body	LTE Band7	21100	2535	50RB-Mid	Front	13mm	\	22.57	23.5	0.424	**0.53**	0.225	**0.28**	-0.10
4	Body	LTE Band7	21100	2535	50RB-Mid	Rear	19mm	\	22.57	23.5	0.382	**0.47**	0.188	**0.23**	-0.08
4	Body	LTE Band7	21100	2535	50RB-Mid	Left	10mm	\	22.57	23.5	0.536	**0.66**	0.279	**0.35**	0.13
4	Body	LTE Band7	21100	2535	50RB-Mid	Right	10mm	\	22.57	23.5	0.033	**0.04**	0.011	**0.01**	0.02
4	Body	LTE Band7	21100	2535	50RB-Mid	Top	18mm	\	22.57	23.5	0.466	**0.58**	0.233	**0.29**	0.11
4	Body	LTE Band7	20850	2510	ULCA_7C	Top	18mm	\	23.18	24.5	0.544	**0.74**	0.267	**0.36**	0.03
4	Body	LTE Band7	20850	2510	1RB-Mid	Front	10mm	\	16.73	18	0.156	**0.21**	0.081	**0.11**	0.17
4	Body	LTE Band7	20850	2510	1RB-Mid	Rear	10mm	\	16.73	18	0.337	**0.45**	0.152	**0.20**	0.08
4	Body	LTE Band7	20850	2510	1RB-Mid	Top	10mm	\	16.73	18	0.399	**0.53**	0.174	**0.23**	-0.04
4	Body	LTE Band7	20850	2510	50RB-High	Front	10mm	\	16.67	18	0.163	**0.22**	0.086	**0.12**	-0.01
4	Body	LTE Band7	20850	2510	50RB-High	Rear	10mm	\	16.67	18	0.329	**0.45**	0.158	**0.21**	-0.08
4	Body	LTE Band7	20850	2510	50RB-High	Top	10mm	\	16.67	18	0.41	**0.56**	0.18	**0.24**	0.01
4	Body	LTE Band7	20850	2510	1RB-High	Front	10mm	Note1	13.71	15	0.084	**0.11**	0.042	**0.06**	0.05
4	Body	LTE Band7	20850	2510	1RB-High	Rear	10mm	Note1	13.71	15	0.187	**0.25**	0.085	**0.11**	-0.17
4	Body	LTE Band7	20850	2510	1RB-High	Top	10mm	Note1	13.71	15	0.224	**0.30**	0.098	**0.13**	0.08
4	Body	LTE Band7	20850	2510	50RB-Low	Front	10mm	Note1	13.68	15	0.086	**0.12**	0.043	**0.06**	-0.11
4	Body	LTE Band7	20850	2510	50RB-Low	Rear	10mm	Note1	13.68	15	0.179	**0.24**	0.079	**0.11**	0.01
4	Body	LTE Band7	20850	2510	50RB-Low	Top	10mm	Note1	13.68	15	0.217	**0.29**	0.092	**0.12**	0.15
0	Head	LTE Band12	23095	707.5	1RB-Mid	Cheek Left	0mm	\	23.89	25.5	0.148	**0.21**	0.115	**0.17**	-0.04
0	Head	LTE Band12	23095	707.5	1RB-Mid	Tilt Left	0mm	\	23.89	25.5	0.107	**0.16**	0.085	**0.12**	-0.04
0	Head	LTE Band12	23095	707.5	1RB-Mid	Cheek Right	0mm	17	23.89	25.5	0.158	**0.23**	0.124	**0.18**	0.01
0	Head	LTE Band12	23095	707.5	1RB-Mid	Tilt Right	0mm	\	23.89	25.5	0.097	**0.14**	0.076	**0.11**	0.12
0	Head	LTE Band12	23095	707.5	25RB-Mid	Cheek Left	0mm	\	22.78	24.5	0.103	**0.15**	0.083	**0.12**	0.08
0	Head	LTE Band12	23095	707.5	25RB-Mid	Tilt Left	0mm	\	22.78	24.5	0.068	**0.10**	0.055	**0.08**	0.03
0	Head	LTE Band12	23095	707.5	25RB-Mid	Cheek Right	0mm	\	22.78	24.5	0.122	**0.18**	0.095	**0.14**	0.13
0	Head	LTE Band12	23095	707.5	25RB-Mid	Tilt Right	0mm	\	22.78	24.5	0.078	**0.12**	0.061	**0.09**	0.05
0	Body	LTE Band12	23095	707.5	1RB-Mid	Front	10mm	\	23.89	25.5	0.154	**0.22**	0.118	**0.17**	0.10
0	Body	LTE Band12	23095	707.5	1RB-Mid	Rear	10mm	18	23.89	25.5	0.215	**0.31**	0.163	**0.24**	0.03
0	Body	LTE Band12	23095	707.5	1RB-Mid	Left	10mm	\	23.89	25.5	0.13	**0.19**	0.094	**0.14**	0.13
0	Body	LTE Band12	23095	707.5	1RB-Mid	Right	10mm	\	23.89	25.5	0.206	**0.30**	0.149	**0.22**	0.03
0	Body	LTE Band12	23095	707.5	1RB-Mid	Bottom	10mm	\	23.89	25.5	0.144	**0.21**	0.08	**0.12**	0.15
0	Body	LTE Band12	23095	707.5	25RB-Mid	Front	10mm	\	22.78	24.5	0.121	**0.18**	0.094	**0.14**	0.14
0	Body	LTE Band12	23095	707.5	25RB-Mid	Rear	10mm	\	22.78	24.5	0.167	**0.25**	0.128	**0.19**	-0.07
0	Body	LTE Band12	23095	707.5	25RB-Mid	Left	10mm	\	22.78	24.5	0.111	**0.16**	0.079	**0.12**	0.10
0	Body	LTE Band12	23095	707.5	25RB-Mid	Right	10mm	\	22.78	24.5	0.169	**0.25**	0.121	**0.18**	-0.12
0	Body	LTE Band12	23095	707.5	25RB-Mid	Bottom	10mm	\	22.78	24.5	0.121	**0.18**	0.066	**0.10**	0.12
0	Head	LTE Band26	26865	831.5	1RB-Mid	Cheek Left	0mm	\	24.49	26	0.24	**0.34**	0.185	**0.26**	-0.17
0	Head	LTE Band26	26865	831.5	1RB-Mid	Tilt Left	0mm	\	24.49	26	0.177	**0.25**	0.138	**0.20**	0.01
0	Head	LTE Band26	26865	831.5	1RB-Mid	Cheek Right	0mm	19	24.49	26	0.241	**0.34**	0.185	**0.26**	0.01
0	Head	LTE Band26	26865	831.5	1RB-Mid	Tilt Right	0mm	\	24.49	26	0.149	**0.21**	0.117	**0.17**	-0.13
0	Head	LTE Band26	26865	831.5	36RB-Mid	Cheek Left	0mm	\	23.48	25	0.178	**0.25**	0.138	**0.20**	0.10
0	Head	LTE Band26	26865	831.5	36RB-Mid	Tilt Left	0mm	\	23.48	25	0.132	**0.19**	0.103	**0.15**	0.08
0	Head	LTE Band26	26865	831.5	36RB-Mid	Cheek Right	0mm	\	23.48	25	0.185	**0.26**	0.143	**0.20**	-0.03
0	Head	LTE Band26	26865	831.5	36RB-Mid	Tilt Right	0mm	\	23.48	25	0.116	**0.16**	0.09	**0.13**	0.04
0	Body	LTE Band26	26865	831.5	1RB-Mid	Front	10mm	\	24.49	26	0.449	**0.64**	0.252	**0.36**	0.03
0	Body	LTE Band26	26865	831.5	1RB-Mid	Rear	10mm	20	24.49	26	0.505	**0.71**	0.291	**0.41**	-0.01
0	Body	LTE Band26	26865	831.5	1RB-Mid	Left	10mm	\	24.49	26	0.179	**0.25**	0.115	**0.16**	-0.17
0	Body	LTE Band26	26865	831.5	1RB-Mid	Right	10mm	\	24.49	26	0.293	**0.41**	0.193	**0.27**	0.14
0	Body	LTE Band26	26865	831.5	1RB-Mid	Bottom	10mm	\	24.49	26	0.479	**0.68**	0.244	**0.35**	0.01
0	Body	LTE Band26	26865	831.5	36RB-Mid	Front	10mm	\	23.48	25	0.335	**0.48**	0.191	**0.27**	-0.05
0	Body	LTE Band26	26865	831.5	36RB-Mid	Rear	10mm	\	23.48	25	0.482	**0.68**	0.266	**0.38**	-0.15
0	Body	LTE Band26	26865	831.5	36RB-Mid	Left	10mm	\	23.48	25	0.129	**0.18**	0.084	**0.12**	-0.08
0	Body	LTE Band26	26865	831.5	36RB-Mid	Right	10mm	\	23.48	25	0.238	**0.34**	0.152	**0.22**	0.07
0	Body	LTE Band26	26865	831.5	36RB-Mid	Bottom	10mm	\	23.48	25	0.37	**0.53**	0.189	**0.27**	0.03
0	Body	LTE Band26	26865	831.5	1RB-Mid	Front	18mm	\	24.49	26	0.194	**0.27**	0.151	**0.21**	-0.01
0	Body	LTE Band26	26865	831.5	1RB-Mid	Rear	24mm	\	24.49	26	0.132	**0.19**	0.104	**0.15**	0.06
0	Body	LTE Band26	26865	831.5	1RB-Mid	Rear	19mm	\	24.49	26	0.155	**0.22**	0.117	**0.17**	-0.06

Note1: The results are only for Power Level E1.

Note2: The results are only for Power Level C1.

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
4	Head	LTE Band41	41490	2680	1RB-Mid	Cheek Left	0mm	\	19.87	21	0.154	**0.20**	0.082	**0.11**	0.04
4	Head	LTE Band41	41490	2680	1RB-Mid	Tilt Left	0mm	\	19.87	21	0.24	**0.31**	0.114	**0.15**	0.08
4	Head	LTE Band41	41490	2680	1RB-Mid	Cheek Right	0mm	\	19.87	21	0.515	**0.67**	0.276	**0.36**	0.14
4	Head	LTE Band41	41490	2680	1RB-Mid	Tilt Right	0mm	21	19.87	21	0.601	**0.78**	0.279	**0.36**	-0.13
4	Head	LTE Band41	41490	2680	50RB-Mid	Cheek Left	0mm	\	19.88	21	0.152	**0.20**	0.08	**0.10**	0.06
4	Head	LTE Band41	41490	2680	50RB-Mid	Tilt Left	0mm	\	19.88	21	0.218	**0.28**	0.104	**0.13**	0.17
4	Head	LTE Band41	41490	2680	50RB-Mid	Cheek Right	0mm	\	19.88	21	0.509	**0.66**	0.273	**0.35**	0.18
4	Head	LTE Band41	41490	2680	50RB-Mid	Tilt Right	0mm	\	19.88	21	0.596	**0.77**	0.277	**0.36**	0.13
4	Head	LTE Band38	38150	2610	ULCA_38C	Tilt Right	0mm	\	19.61	21	0.546	**0.75**	0.247	**0.34**	0.06
4	Body	LTE Band41	40620	2593	1RB-Mid	Front	13mm	\	24.07	25	0.246	**0.30**	0.134	**0.17**	-0.09
4	Body	LTE Band41	40620	2593	1RB-Mid	Rear	19mm	\	24.07	25	0.197	**0.24**	0.103	**0.13**	0.08
4	Body	LTE Band41	40620	2593	1RB-Mid	Left	10mm	22	24.07	25	0.337	**0.42**	0.179	**0.22**	-0.05
4	Body	LTE Band41	40620	2593	1RB-Mid	Right	10mm	\	24.07	25	0.044	**0.05**	0.012	**0.01**	-0.02
4	Body	LTE Band41	40620	2593	1RB-Mid	Top	18mm	\	24.07	25	0.25	**0.31**	0.125	**0.15**	0.14
4	Body	LTE Band41	40620	2593	50RB-Mid	Front	13mm	\	23.02	24	0.193	**0.24**	0.108	**0.14**	0.07
4	Body	LTE Band41	40620	2593	50RB-Mid	Rear	19mm	\	23.02	24	0.133	**0.17**	0.068	**0.09**	-0.06
4	Body	LTE Band41	40620	2593	50RB-Mid	Left	10mm	\	23.02	24	0.273	**0.34**	0.146	**0.18**	-0.01
4	Body	LTE Band41	40620	2593	50RB-Mid	Right	10mm	\	23.02	24	0.036	**0.05**	0.011	**0.01**	0.12
4	Body	LTE Band41	40620	2593	50RB-Mid	Top	18mm	\	23.02	24	0.209	**0.26**	0.104	**0.13**	-0.03
4	Body	LTE Band38	38150	2610	ULCA_38C	Left	10mm	\	23.78	25	0.281	**0.37**	0.145	**0.19**	0.11
4	Body	LTE Band41	41490	2680	1RB-Low	Front	10mm	\	19.16	20.5	0.137	**0.19**	0.074	**0.10**	0.07
4	Body	LTE Band41	41490	2680	1RB-Low	Rear	10mm	\	19.16	20.5	0.198	**0.27**	0.091	**0.12**	0.16
4	Body	LTE Band41	41490	2680	1RB-Low	Top	10mm	\	19.16	20.5	0.225	**0.31**	0.096	**0.13**	0.08
4	Body	LTE Band41	41490	2680	50RB-High	Front	10mm	\	19.19	20.5	0.143	**0.19**	0.077	**0.10**	-0.01
4	Body	LTE Band41	41490	2680	50RB-High	Rear	10mm	\	19.19	20.5	0.209	**0.28**	0.099	**0.13**	0.16
4	Body	LTE Band41	41490	2680	50RB-High	Top	10mm	\	19.19	20.5	0.219	**0.30**	0.095	**0.13**	-0.03
1	Head	LTE Band66	132322	1745	1RB-Mid	Cheek Left	0mm	23	23.54	25	0.344	**0.48**	0.233	**0.33**	0.10
1	Head	LTE Band66	132322	1745	1RB-Mid	Tilt Left	0mm	\	23.54	25	0.162	**0.23**	0.108	**0.15**	-0.14
1	Head	LTE Band66	132322	1745	1RB-Mid	Cheek Right	0mm	\	23.54	25	0.168	**0.24**	0.117	**0.16**	-0.03
1	Head	LTE Band66	132322	1745	1RB-Mid	Tilt Right	0mm	\	23.54	25	0.129	**0.18**	0.084	**0.12**	-0.13
1	Head	LTE Band66	132322	1745	50RB-Mid	Cheek Left	0mm	\	22.49	24	0.27	**0.38**	0.182	**0.26**	-0.01
1	Head	LTE Band66	132322	1745	50RB-Mid	Tilt Left	0mm	\	22.49	24	0.133	**0.19**	0.087	**0.12**	-0.08
1	Head	LTE Band66	132322	1745	50RB-Mid	Cheek Right	0mm	\	22.49	24	0.129	**0.18**	0.09	**0.13**	0.02
1	Head	LTE Band66	132322	1745	50RB-Mid	Tilt Right	0mm	\	22.49	24	0.103	**0.15**	0.069	**0.10**	0.04
1	Body	LTE Band66	132322	1745	1RB-Low	Front	12mm	\	23.54	25	0.319	**0.45**	0.199	**0.28**	-0.06
1	Body	LTE Band66	132322	1745	1RB-Low	Rear	18mm	\	23.54	25	0.195	**0.27**	0.119	**0.17**	0.11
1	Body	LTE Band66	132322	1745	1RB-Low	Left	10mm	\	23.54	25	0.326	**0.46**	0.203	**0.28**	-0.03
1	Body	LTE Band66	132322	1745	1RB-Low	Bottom	12mm	\	23.54	25	0.367	**0.51**	0.22	**0.31**	0.10
1	Body	LTE Band66	132322	1745	50RB-Low	Front	12mm	\	22.49	24	0.261	**0.37**	0.16	**0.23**	-0.02
1	Body	LTE Band66	132322	1745	50RB-Low	Rear	18mm	\	22.49	24	0.159	**0.23**	0.097	**0.14**	0.01
1	Body	LTE Band66	132322	1745	50RB-Low	Left	10mm	\	22.49	24	0.23	**0.33**	0.144	**0.20**	0.08
1	Body	LTE Band66	132322	1745	50RB-Low	Bottom	12mm	\	22.49	24	0.374	**0.53**	0.22	**0.31**	0.01
1	Body	LTE Band66	132322	1745	1RB-Low	Front	18mm	\	23.54	25	0.197	**0.28**	0.138	**0.19**	0.01
1	Body	LTE Band66	132322	1745	1RB-Low	Front	10mm	\	22.75	24	0.28	**0.37**	0.175	**0.23**	0.11
1	Body	LTE Band66	132322	1745	1RB-Low	Rear	10mm	\	22.75	24	0.398	**0.53**	0.24	**0.32**	-0.07
1	Body	LTE Band66	132322	1745	1RB-Low	Bottom	10mm	\	22.75	24	0.335	**0.45**	0.198	**0.26**	-0.09
1	Body	LTE Band66	132322	1745	50RB-Low	Front	10mm	\	22.75	24	0.291	**0.39**	0.182	**0.24**	0.13
1	Body	LTE Band66	132322	1745	50RB-Low	Rear	10mm	24	22.75	24	0.421	**0.56**	0.251	**0.33**	0.19
1	Body	LTE Band66	132322	1745	50RB-Low	Bottom	10mm	\	22.75	24	0.372	**0.50**	0.219	**0.29**	0.01
1	Body	LTE Band66	132322	1745	1RB-Low	Front	10mm	Note1	19.73	21	0.14	**0.19**	0.087	**0.12**	0.07
1	Body	LTE Band66	132322	1745	1RB-Low	Rear	10mm	Note1	19.73	21	0.206	**0.28**	0.119	**0.16**	0.17
1	Body	LTE Band66	132322	1745	1RB-Low	Bottom	10mm	Note1	19.73	21	0.18	**0.24**	0.105	**0.14**	-0.02
1	Body	LTE Band66	132322	1745	50RB-Mid	Front	10mm	Note1	19.69	21	0.151	**0.20**	0.092	**0.12**	-0.05
1	Body	LTE Band66	132322	1745	50RB-Mid	Rear	10mm	Note1	19.69	21	0.211	**0.29**	0.124	**0.17**	0.13
1	Body	LTE Band66	132322	1745	50RB-Mid	Bottom	10mm	Note1	19.69	21	0.184	**0.25**	0.108	**0.15**	0.01
4	Head	LTE Band2	19100	1900	1RB-High	Cheek Left	0mm	\	14.37	15.5	0.239	**0.31**	0.125	**0.16**	0.02
4	Head	LTE Band2	19100	1900	1RB-High	Tilt Left	0mm	\	14.37	15.5	0.292	**0.38**	0.145	**0.19**	-0.09
4	Head	LTE Band2	19100	1900	1RB-High	Cheek Right	0mm	\	14.37	15.5	0.314	**0.41**	0.165	**0.21**	0.07
4	Head	LTE Band2	19100	1900	1RB-High	Tilt Right	0mm	\	14.37	15.5	0.371	**0.48**	0.176	**0.23**	-0.08
4	Head	LTE Band2	19100	1900	50RB-Low	Cheek Left	0mm	\	14.34	15.5	0.236	**0.31**	0.126	**0.16**	0.08
4	Head	LTE Band2	19100	1900	50RB-Low	Tilt Left	0mm	\	14.34	15.5	0.28	**0.37**	0.143	**0.19**	0.06
4	Head	LTE Band2	19100	1900	50RB-Low	Cheek Right	0mm	\	14.34	15.5	0.33	**0.43**	0.171	**0.22**	-0.02
4	Head	LTE Band2	19100	1900	50RB-Low	Tilt Right	0mm	25	14.34	15.5	0.38	**0.50**	0.18	**0.24**	0.07
4	Body	LTE Band2	19100	1900	1RB-High	Front	13mm	\	23.91	25	0.494	**0.63**	0.277	**0.36**	0.06
4	Body	LTE Band2	19100	1900	1RB-High	Rear	19mm	\	23.91	25	0.374	**0.48**	0.219	**0.28**	-0.03
4	Body	LTE Band2	19100	1900	1RB-High	Left	10mm	\	23.91	25	0.285	**0.37**	0.164	**0.21**	0.10
4	Body	LTE Band2	19100	1900	1RB-High	Right	10mm	\	23.91	25	0.09	**0.12**	0.054	**0.07**	0.02
4	Body	LTE Band2	19100	1900	1RB-High	Top	18mm	26	23.91	25	0.501	**0.64**	0.285	**0.37**	-0.07
4	Body	LTE Band2	19100	1900	50RB-Low	Front	13mm	\	22.88	24	0.415	**0.54**	0.238	**0.31**	-0.01
4	Body	LTE Band2	19100	1900	50RB-Low	Rear	19mm	\	22.88	24	0.293	**0.38**	0.169	**0.22**	0.09
4	Body	LTE Band2	19100	1900	50RB-Low	Left	10mm	\	22.88	24	0.194	**0.25**	0.115	**0.15**	0.02
4	Body	LTE Band2	19100	1900	50RB-Low	Right	10mm	\	22.88	24	0.07	**0.09**	0.042	**0.05**	0.14
4	Body	LTE Band2	19100	1900	50RB-Low	Top	18mm	\	22.88	24	0.426	**0.55**	0.243	**0.31**	-0.06
4	Body	LTE Band2	19100	1900	1RB-High	Front	10mm	\	17.87	19	0.165	**0.21**	0.096	**0.12**	-0.18
4	Body	LTE Band2	19100	1900	1RB-High	Rear	10mm	\	17.87	19	0.24	**0.31**	0.135	**0.18**	-0.02
4	Body	LTE Band2	19100	1900	1RB-High	Top	10mm	\	17.87	19	0.264	**0.34**	0.14	**0.18**	-0.17
4	Body	LTE Band2	19100	1900	50RB-Low	Front	10mm	\	17.86	19	0.176	**0.23**	0.1	**0.13**	0.02
4	Body	LTE Band2	19100	1900	50RB-Low	Rear	10mm	\	17.86	19	0.241	**0.31**	0.136	**0.18**	-0.04
4	Body	LTE Band2	19100	1900	50RB-Low	Top	10mm	\	17.86	19	0.279	**0.36**	0.144	**0.19**	0.06

Note1: The results are only for Power Level E1.

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	Head	LTE Band7	21350	2560	1RB-High	Cheek Left	0mm	\	24.01	24.5	0.066	**0.07**	0.037	**0.04**	-0.09
0	Head	LTE Band7	21350	2560	1RB-High	Tilt Left	0mm	\	24.01	24.5	0.058	**0.06**	0.031	**0.03**	-0.01
0	Head	LTE Band7	21350	2560	1RB-High	Cheek Right	0mm	27	24.01	24.5	0.115	**0.13**	0.064	**0.07**	-0.09
0	Head	LTE Band7	21350	2560	1RB-High	Tilt Right	0mm	\	24.01	24.5	0.059	**0.07**	0.032	**0.04**	-0.04
0	Head	LTE Band7	21350	2560	50RB-Mid	Cheek Left	0mm	\	23.01	23.5	0.053	**0.06**	0.03	**0.03**	0.1
0	Head	LTE Band7	21350	2560	50RB-Mid	Tilt Left	0mm	\	23.01	23.5	0.051	**0.06**	0.027	**0.03**	-0.13
0	Head	LTE Band7	21350	2560	50RB-Mid	Cheek Right	0mm	\	23.01	23.5	0.1	**0.11**	0.055	**0.06**	0.02
0	Head	LTE Band7	21350	2560	50RB-Mid	Tilt Right	0mm	\	23.01	23.5	0.05	**0.06**	0.027	**0.03**	-0.05
0	Body	LTE Band7	21350	2560	1RB-High	Front	14mm	\	24.01	24.5	0.546	**0.61**	0.288	**0.32**	-0.08
0	Body	LTE Band7	21350	2560	1RB-High	Rear	18mm	\	24.01	24.5	0.491	**0.55**	0.268	**0.30**	0.11
0	Body	LTE Band7	21350	2560	1RB-High	Left	10mm	\	24.01	24.5	0.038	**0.04**	0.015	**0.02**	0.03
0	Body	LTE Band7	21350	2560	1RB-High	Right	10mm	\	24.01	24.5	0.155	**0.17**	0.092	**0.10**	0.08
0	Body	LTE Band7	21350	2560	1RB-High	Bottom	18mm	28	24.01	24.5	0.708	**0.79**	0.379	**0.42**	0.01
0	Body	LTE Band7	21350	2560	50RB-Mid	Front	14mm	\	23.01	23.5	0.438	**0.49**	0.232	**0.26**	-0.04
0	Body	LTE Band7	21350	2560	50RB-Mid	Rear	18mm	\	23.01	23.5	0.376	**0.42**	0.208	**0.23**	0.02
0	Body	LTE Band7	21350	2560	50RB-Mid	Left	10mm	\	23.01	23.5	0.055	**0.06**	0.019	**0.02**	0.07
0	Body	LTE Band7	21350	2560	50RB-Mid	Right	10mm	\	23.01	23.5	0.15	**0.17**	0.089	**0.10**	-0.1
0	Body	LTE Band7	21350	2560	50RB-Mid	Bottom	18mm	\	23.01	23.5	0.57	**0.64**	0.308	**0.34**	-0.05
0	Body	LTE Band7	21350	2560	1RB-High	Front	18mm	\	24.01	24.5	0.374	**0.42**	0.204	**0.23**	-0.08
0	Body	LTE Band7	21350	2560	1RB-High	Rear	24mm	\	24.01	24.5	0.314	**0.35**	0.177	**0.20**	0.11
0	Body	LTE Band7	21350	2560	1RB-High	Front	10mm	Note1	16.58	17	0.157	**0.17**	0.078	**0.09**	-0.02
0	Body	LTE Band7	21350	2560	1RB-High	Rear	10mm	Note1	16.58	17	0.204	**0.22**	0.105	**0.12**	0.06
0	Body	LTE Band7	21350	2560	1RB-High	Bottom	10mm	Note1	16.58	17	0.316	**0.35**	0.153	**0.17**	-0.04
0	Body	LTE Band7	21350	2560	50RB-Mid	Front	10mm	Note1	16.51	17	0.154	**0.17**	0.076	**0.09**	0.11
0	Body	LTE Band7	21350	2560	50RB-Mid	Rear	10mm	Note1	16.51	17	0.208	**0.23**	0.104	**0.12**	-0.07
0	Body	LTE Band7	21350	2560	50RB-Mid	Bottom	10mm	Note1	16.51	17	0.32	**0.36**	0.156	**0.17**	-0.02
0	Body	LTE Band7	21350	2560	1RB-High	Front	10mm	Note2	13.53	14	0.073	**0.08**	0.038	**0.04**	0.09
0	Body	LTE Band7	21350	2560	1RB-High	Rear	10mm	Note2	13.53	14	0.101	**0.11**	0.052	**0.06**	0.13
0	Body	LTE Band7	21350	2560	1RB-High	Bottom	10mm	Note2	13.53	14	0.148	**0.16**	0.073	**0.08**	0.17
0	Body	LTE Band7	21350	2560	50RB-Mid	Front	10mm	Note2	13.49	14	0.073	**0.08**	0.038	**0.04**	0.01
0	Body	LTE Band7	21350	2560	50RB-Mid	Rear	10mm	Note2	13.49	14	0.098	**0.11**	0.052	**0.06**	-0.17
0	Body	LTE Band7	21350	2560	50RB-Mid	Bottom	10mm	Note2	13.49	14	0.156	**0.18**	0.076	**0.09**	0.05
0	Head	LTE Band41	41490	2680	1RB-High	Cheek Left	0mm	\	25.31	25.5	0.112	**0.12**	0.048	**0.05**	-0.05
0	Head	LTE Band41	41490	2680	1RB-High	Tilt Left	0mm	\	25.31	25.5	0.108	**0.11**	0.042	**0.04**	0.02
0	Head	LTE Band41	41490	2680	1RB-High	Cheek Right	0mm	29	25.31	25.5	0.163	**0.17**	0.066	**0.07**	0.08
0	Head	LTE Band41	41490	2680	1RB-High	Tilt Right	0mm	\	25.31	25.5	0	**0.00**	0	**0.00**	\
0	Head	LTE Band41	41490	2680	50RB-Mid	Cheek Left	0mm	\	24.29	24.5	0.079	**0.08**	0.035	**0.04**	-0.08
0	Head	LTE Band41	41490	2680	50RB-Mid	Tilt Left	0mm	\	24.29	24.5	0.07	**0.07**	0.028	**0.03**	0.04
0	Head	LTE Band41	41490	2680	50RB-Mid	Cheek Right	0mm	\	24.29	24.5	0.134	**0.14**	0.054	**0.06**	-0.17
0	Head	LTE Band41	41490	2680	50RB-Mid	Tilt Right	0mm	\	24.29	24.5	0	**0.00**	0	**0.00**	\
0	Body	LTE Band41	41490	2680	1RB-High	Front	14mm	\	25.31	25.5	0.576	**0.60**	0.287	**0.30**	0.09
0	Body	LTE Band41	41490	2680	1RB-High	Rear	18mm	\	25.31	25.5	0.528	**0.55**	0.279	**0.29**	-0.12
0	Body	LTE Band41	41490	2680	1RB-High	Left	10mm	\	25.31	25.5	0	**0.00**	0	**0.00**	\
0	Body	LTE Band41	41490	2680	1RB-High	Right	10mm	\	25.31	25.5	0.223	**0.23**	0.124	**0.13**	0.07
0	Body	LTE Band41	41490	2680	1RB-High	Bottom	18mm	30	25.31	25.5	0.758	**0.79**	0.398	**0.42**	0.02
0	Body	LTE Band41	41490	2680	50RB-Mid	Front	14mm	\	24.29	24.5	0.428	**0.45**	0.216	**0.23**	-0.05
0	Body	LTE Band41	41490	2680	50RB-Mid	Rear	18mm	\	24.29	24.5	0.396	**0.42**	0.212	**0.22**	-0.12
0	Body	LTE Band41	41490	2680	50RB-Mid	Left	10mm	\	24.29	24.5	0	**0.00**	0	**0.00**	\
0	Body	LTE Band41	41490	2680	50RB-Mid	Right	10mm	\	24.29	24.5	0.253	**0.27**	0.136	**0.14**	-0.07
0	Body	LTE Band41	41490	2680	50RB-Mid	Bottom	18mm	\	24.29	24.5	0.658	**0.69**	0.343	**0.36**	-0.13
0	Body	LTE Band41	41490	2680	1RB-High	Front	18mm	\	25.31	25.5	0.4	**0.42**	0.213	**0.22**	0.06
0	Body	LTE Band41	41490	2680	1RB-High	Rear	24mm	\	25.31	25.5	0.304	**0.32**	0.171	**0.18**	-0.07
0	Body	LTE Band41	41490	2680	1RB-High	Front	10mm	Note1	16.38	16.5	0.085	**0.09**	0.039	**0.04**	-0.07
0	Body	LTE Band41	41490	2680	1RB-High	Rear	10mm	Note1	16.38	16.5	0.119	**0.12**	0.056	**0.06**	0.12
0	Body	LTE Band41	41490	2680	1RB-High	Bottom	10mm	Note1	16.38	16.5	0.189	**0.19**	0.089	**0.09**	0.11
0	Body	LTE Band41	41490	2680	50RB-High	Front	10mm	Note1	16.35	16.5	0.052	**0.05**	0.027	**0.03**	-0.1
0	Body	LTE Band41	41490	2680	50RB-High	Rear	10mm	Note1	16.35	16.5	0.066	**0.07**	0.034	**0.04**	-0.06
0	Body	LTE Band41	41490	2680	50RB-High	Bottom	10mm	Note1	16.35	16.5	0.116	**0.12**	0.056	**0.06**	0.12
0	Body	LTE Band41	41490	2680	1RB-High	Front	10mm	Note2	13.31	13.5	0.04	**0.04**	0.021	**0.02**	0.02
0	Body	LTE Band41	41490	2680	1RB-High	Rear	10mm	Note2	13.31	13.5	0.053	**0.06**	0.027	**0.03**	-0.03
0	Body	LTE Band41	41490	2680	1RB-High	Bottom	10mm	Note2	13.31	13.5	0.094	**0.10**	0.045	**0.05**	-0.13
0	Body	LTE Band41	41490	2680	50RB-Mid	Front	10mm	Note2	13.31	13.5	0.037	**0.04**	0.019	**0.02**	-0.17
0	Body	LTE Band41	41490	2680	50RB-Mid	Rear	10mm	Note2	13.31	13.5	0.054	**0.06**	0.027	**0.03**	-0.04
0	Body	LTE Band41	41490	2680	50RB-Mid	Bottom	10mm	Note2	13.31	13.5	0.075	**0.08**	0.039	**0.04**	-0.03
4	Head	LTE Band66	132322	1745	1RB-Mid	Cheek Left	0mm	\	17.29	18.5	0.177	**0.23**	0.103	**0.14**	-0.14
4	Head	LTE Band66	132322	1745	1RB-Mid	Tilt Left	0mm	\	17.29	18.5	0.228	**0.30**	0.122	**0.16**	-0.06
4	Head	LTE Band66	132322	1745	1RB-Mid	Cheek Right	0mm	31	17.29	18.5	0.278	**0.37**	0.147	**0.19**	0.06
4	Head	LTE Band66	132322	1745	1RB-Mid	Tilt Right	0mm	\	17.29	18.5	0.25	**0.33**	0.133	**0.18**	0.11
4	Head	LTE Band66	132322	1745	50RB-Mid	Cheek Left	0mm	\	17.29	18.5	0.192	**0.25**	0.107	**0.14**	0.05
4	Head	LTE Band66	132322	1745	50RB-Mid	Tilt Left	0mm	\	17.29	18.5	0.237	**0.31**	0.126	**0.17**	-0.18
4	Head	LTE Band66	132322	1745	50RB-Mid	Cheek Right	0mm	\	17.29	18.5	0.239	**0.32**	0.132	**0.17**	0.08
4	Head	LTE Band66	132322	1745	50RB-Mid	Tilt Right	0mm	\	17.29	18.5	0.242	**0.32**	0.129	**0.17**	0.18
4	Body	LTE Band66	132322	1745	1RB-Mid	Front	13mm	\	23.87	25	0.214	**0.28**	0.128	**0.17**	0.05
4	Body	LTE Band66	132322	1745	1RB-Mid	Rear	19mm	\	23.87	25	0.152	**0.20**	0.09	**0.12**	-0.02
4	Body	LTE Band66	132322	1745	1RB-Mid	Left	10mm	\	23.87	25	0.111	**0.14**	0.066	**0.09**	0.07
4	Body	LTE Band66	132322	1745	1RB-Mid	Right	10mm	\	23.87	25	0.047	**0.06**	0.029	**0.04**	0.13
4	Body	LTE Band66	132322	1745	1RB-Mid	Top	18mm	\	23.87	25	0.194	**0.25**	0.114	**0.15**	0.04
4	Body	LTE Band66	132322	1745	50RB-High	Front	13mm	\	22.84	24	0.185	**0.24**	0.107	**0.14**	-0.06
4	Body	LTE Band66	132322	1745	50RB-High	Rear	19mm	\	22.84	24	0.117	**0.15**	0.069	**0.09**	-0.09
4	Body	LTE Band66	132322	1745	50RB-High	Left	10mm	\	22.84	24	0.084	**0.11**	0.05	**0.07**	0.11
4	Body	LTE Band66	132322	1745	50RB-High	Right	10mm	\	22.84	24	<0.01	<0.01	<0.01	<0.01	\
4	Body	LTE Band66	132322	1745	50RB-High	Top	18mm	\	22.84	24	0.165	**0.22**	0.098	**0.13**	-0.02
4	Body	LTE Band66	132322	1745	1RB-Mid	Front	10mm	\	20.24	21.5	0.218	**0.29**	0.123	**0.16**	0.15
4	Body	LTE Band66	132322	1745	1RB-Mid	Rear	10mm	\	20.24	21.5	0.344	**0.46**	0.19	**0.25**	0.18
4	Body	LTE Band66	132322	1745	1RB-Mid	Top	10mm	32	20.24	21.5	0.4	**0.53**	0.211	**0.28**	-0.1
4	Body	LTE Band66	132322	1745	50RB-Low	Front	10mm	\	20.28	21.5	0.208	**0.28**	0.12	**0.16**	-0.06
4	Body	LTE Band66	132322	1745	50RB-Low	Rear	10mm	\	20.28	21.5	0.315	**0.42**	0.176	**0.23**	-0.12
4	Body	LTE Band66	132322	1745	50RB-Low	Top	10mm	\	20.28	21.5	0.354	**0.47**	0.19	**0.25**	0.18

Note1: The results are only for Power Level D1(DL CA).

Note2: The results are only for Power Level E1(ENDC).

14.2 SAR results for 5G NR

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift		Power setting	BW RB	SCS
0	Head	N5	167300	836.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	24.33	25.5	0.168	**0.22**	0.13	**0.17**	-0.08		24	5M_12_6	15K
0	Head	N5	167300	836.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	24.33	25.5	0.102	**0.13**	0.082	**0.11**	0.09		24	5M_12_6	15K
0	Head	N5	167300	836.5	DFT-s-OFDM QPSK	Cheek Right	0mm	33	24.33	25.5	0.226	**0.30**	0.173	**0.23**	0.02		24	5M_12_6	15K
0	Head	N5	167300	836.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	24.33	25.5	0.124	**0.16**	0.097	**0.13**	0.08		24	5M_12_6	15K
0	Head	N5	167300	836.5	CP-OFDM QPSK	Cheek Right	0mm	\	22.74	24	0.165	**0.22**	0.123	**0.16**	0.07		24	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Front	14mm	34	24.33	25.5	0.183	**0.24**	0.139	**0.18**	0.01		24	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Rear	18mm	\	24.33	25.5	0.178	**0.23**	0.135	**0.18**	-0.07		24	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Left	10mm	\	24.33	25.5	0.095	**0.12**	0.066	**0.09**	-0.11		24	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Right	10mm	\	24.33	25.5	0.147	**0.19**	0.104	**0.14**	-0.08		24	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Bottom	18mm	\	24.33	25.5	0.109	**0.14**	0.065	**0.09**	-0.05		24	5M_12_6	15K
0	Body	N5	167300	836.5	CP-OFDM QPSK	Front	14mm	\	22.74	24	0.133	**0.18**	0.101	**0.13**	0.13		24	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Front	10mm	\	20.06	20.5	0.113	**0.13**	0.066	**0.07**	-0.12		19	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Rear	10mm	\	20.06	20.5	0.161	**0.18**	0.095	**0.11**	0.01		19	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Bottom	10mm	\	20.06	20.5	0.143	**0.16**	0.068	**0.08**	-0.12		19	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Front	10mm	Note1	16.74	17.5	0.059	**0.07**	0.034	**0.04**	0.14		16	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Rear	10mm	Note1	16.74	17.5	0.08	**0.10**	0.047	**0.06**	-0.03		16	5M_12_6	15K
0	Body	N5	167300	836.5	DFT-s-OFDM QPSK	Bottom	10mm	Note1	16.74	17.5	0.071	**0.08**	0.036	**0.04**	0.17		16	5M_12_6	15K
4	Head	N7	507000	2535	DFT-s-OFDM QPSK	Cheek Left	0mm	\	15.16	16	0.147	**0.18**	0.074	**0.09**	-0.02		14.5	40M_108_54	15K
4	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Left	0mm	\	15.16	16	0.213	**0.26**	0.103	**0.12**	0.14		14.5	40M_108_54	15K
4	Head	N7	507000	2535	DFT-s-OFDM QPSK	Cheek Right	0mm	\	15.16	16	0.399	**0.48**	0.191	**0.23**	0.18		14.5	40M_108_54	15K
4	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Right	0mm	35	15.16	16	0.462	**0.56**	0.203	**0.25**	0.16		14.5	40M_108_54	15K
4	Head	N7	507000	2535	CP-OFDM 256QAM	Tilt Right	0mm	\	15.07	16	0.433	**0.54**	0.191	**0.24**	-0.06		14.5	40M_108_54	15K
4	Head	N7	507000	2535	DFT-s-OFDM QPSK	Cheek Left	0mm	Note2	12.17	13	0.044	**0.05**	0.025	**0.03**	0.08		11.5	40M_108_54	15K
4	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Left	0mm	Note2	12.17	13	0.065	**0.08**	0.036	**0.04**	-0.15		11.5	40M_108_54	15K
4	Head	N7	507000	2535	DFT-s-OFDM QPSK	Cheek Right	0mm	Note2	12.17	13	0.201	**0.24**	0.104	**0.13**	0.01		11.5	40M_108_54	15K
4	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Right	0mm	Note2	12.17	13	0.238	**0.29**	0.110	**0.13**	0.12		11.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Front	13mm	\	23.81	25	0.355	**0.47**	0.191	**0.25**	-0.03		23.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Rear	19mm	\	23.81	25	0.362	**0.48**	0.173	**0.23**	-0.06		23.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Left	10mm	36	23.81	25	0.492	**0.65**	0.265	**0.35**	-0.02		23.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Top	18mm	\	23.81	25	0.444	**0.58**	0.223	**0.29**	0.13		23.5	40M_108_54	15K
4	Body	N7	507000	2535	CP-OFDM QPSK	Left	10mm	\	22.23	23.5	0.330	**0.44**	0.184	**0.25**	-0.08		23.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Front	10mm	\	16.17	17	0.136	**0.16**	0.074	**0.09**	0.11		15.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Rear	10mm	\	16.17	17	0.319	**0.39**	0.144	**0.17**	0.16		15.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Top	10mm	\	16.17	17	0.363	**0.44**	0.160	**0.19**	-0.05		15.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Front	10mm	Note1	13.17	14	0.072	**0.09**	0.042	**0.05**	0.06		12.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Rear	10mm	Note1	13.17	14	0.148	**0.18**	0.075	**0.09**	-0.04		12.5	40M_108_54	15K
4	Body	N7	507000	2535	DFT-s-OFDM QPSK	Top	10mm	Note1	13.17	14	0.182	**0.22**	0.081	**0.10**	0.04		12.5	40M_108_54	15K
0	Head	N26	166300	831.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	24.36	25.5	0.172	**0.22**	0.135	**0.18**	0.15		24	5M_12_6	15K
0	Head	N26	166300	831.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	24.36	25.5	0.130	**0.17**	0.101	**0.13**	-0.18		24	5M_12_6	15K
0	Head	N26	166300	831.5	DFT-s-OFDM QPSK	Cheek Right	0mm	37	24.36	25.5	0.238	**0.31**	0.182	**0.24**	0.04		24	5M_12_6	15K
0	Head	N26	166300	831.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	24.36	25.5	0.148	**0.19**	0.118	**0.15**	-0.15		24	5M_12_6	15K
0	Head	N26	166300	831.5	CP-OFDM QPSK	Cheek Right	0mm	\	22.73	24	0.171	**0.23**	0.131	**0.18**	0.09		24	5M_12_6	15K
0	Body	N26	166300	831.5	DFT-s-OFDM QPSK	Front	10mm	\	24.36	25.5	0.366	**0.48**	0.212	**0.28**	-0.02		24	5M_12_6	15K
0	Body	N26	166300	831.5	DFT-s-OFDM QPSK	Rear	10mm	38	24.36	25.5	0.415	**0.54**	0.241	**0.31**	0.03		24	5M_12_6	15K
0	Body	N26	166300	831.5	DFT-s-OFDM QPSK	Left	10mm	\	24.36	25.5	0.099	**0.13**	0.065	**0.08**	0.13		24	5M_12_6	15K
0	Body	N26	166300	831.5	DFT-s-OFDM QPSK	Right	10mm	\	24.36	25.5	0.167	**0.22**	0.113	**0.15**	0.07		24	5M_12_6	15K
0	Body	N26	166300	831.5	DFT-s-OFDM QPSK	Bottom	10mm	\	24.36	25.5	0.408	**0.53**	0.207	**0.27**	-0.09		24	5M_12_6	15K
0	Body	N26	166300	831.5	CP-OFDM QPSK	Rear	10mm	\	22.73	24	0.289	**0.39**	0.164	**0.22**	0.09		24	5M_12_6	15K
0	Body	N26	166300	831.5	DFT-s-OFDM QPSK	Front	10mm	Note1	21.79	22.5	0.178	**0.21**	0.106	**0.12**	-0.01		21	5M_12_6	15K
0	Body	N26	166300	831.5	DFT-s-OFDM QPSK	Rear	10mm	Note1	21.79	22.5	0.249	**0.29**	0.144	**0.17**	0.05		21	5M_12_6	15K
0	Body	N26	166300	831.5	DFT-s-OFDM QPSK	Bottom	10mm	Note1	21.79	22.5	0.231	**0.27**	0.110	**0.13**	-0.07		21	5M_12_6	15K
4	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Left	0mm	\	14.65	15.5	0.112	**0.14**	0.059	**0.07**	-0.02		14	10M_12_6	30K
4	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Left	0mm	\	14.65	15.5	0.160	**0.19**	0.078	**0.09**	0.11		14	10M_12_6	30K
4	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	14.65	15.5	0.362	**0.44**	0.182	**0.22**	-0.08		14	10M_12_6	30K
4	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Right	0mm	39	14.65	15.5	0.407	**0.49**	0.185	**0.22**	0.04		14	10M_12_6	30K
4	Head	N41	518598	2592.99	CP-OFDM 16QAM	Tilt Right	0mm	\	14.57	15.5	0.382	**0.47**	0.171	**0.21**	-0.15		14	10M_12_6	30K
4	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Left	0mm	Note2	11.65	12.5	0.050	**0.06**	0.028	**0.03**	-0.03		11	10M_12_6	30K
4	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Left	0mm	Note2	11.65	12.5	0.075	**0.09**	0.039	**0.05**	-0.1		11	10M_12_6	30K
4	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Right	0mm	Note2	11.65	12.5	0.164	**0.20**	0.088	**0.11**	0.04		11	10M_12_6	30K
4	Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Right	0mm	Note2	11.65	12.5	0.191	**0.23**	0.090	**0.11**	0.06		11	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	13mm	\	23.86	25	0.418	**0.54**	0.219	**0.28**	-0.09		23.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	19mm	\	23.86	25	0.374	**0.49**	0.178	**0.23**	0.06		23.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Left	10mm	40	23.86	25	0.573	**0.74**	0.306	**0.40**	0.02		23.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Top	18mm	\	23.86	25	0.446	**0.58**	0.214	**0.28**	-0.07		23.5	10M_12_6	30K
4	Body	N41	518598	2592.99	CP-OFDM QPSK	Left	10mm	\	22.07	23.5	0.374	**0.52**	0.203	**0.28**	-0.03		23.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	10mm	\	16.24	17	0.144	**0.17**	0.078	**0.09**	-0.05		15.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	10mm	\	16.24	17	0.272	**0.32**	0.122	**0.15**	0.03		15.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Top	10mm	\	16.24	17	0.343	**0.41**	0.151	**0.18**	0.02		15.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	10mm	Note1	13.2	14	0.070	**0.08**	0.039	**0.05**	-0.08		12.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	10mm	Note1	13.2	14	0.138	**0.17**	0.066	**0.08**	0.1		12.5	10M_12_6	30K
4	Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Top	10mm	Note1	13.2	14	0.172	**0.21**	0.076	**0.09**	-0.01		12.5	10M_12_6	30K
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Left	0mm	41	24.18	25	0.269	**0.32**	0.174	**0.21**	0.03		23.5	5M_12_6	15K
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Left	0mm	\	24.18	25	0.127	**0.15**	0.091	**0.11**	0.09		23.5	5M_12_6	15K
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Right	0mm	\	24.18	25	0.154	**0.19**	0.098	**0.12**	-0.05		23.5	5M_12_6	15K
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Right	0mm	\	24.18	25	0.114	**0.14**	0.073	**0.09**	0.12		23.5	5M_12_6	15K
1	Head	N66	349000	1745	CP-OFDM QPSK	Cheek Left	0mm	\	22.56	23	0.184	**0.20**	0.117	**0.13**	-0.12		23.5	5M_12_6	15K
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	12mm	\	24.18	25	0.352	**0.43**	0.212	**0.26**	0.02		23.5	5M_12_6	15K
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	18mm	\	24.18	25	0.186	**0.22**	0.117	**0.14**	-0.10		23.5	5M_12_6	15K
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Left	10mm	\	24.18	25	0.286	**0.35**	0.176	**0.21**	0.03		23.5	5M_12_6	15K
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Bottom	12mm	\	24.18	25	0.327	**0.39**	0.196	**0.24**	-0.07		23.5	5M_12_6	15K
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	10mm	\	22.87	23.5	0.41	**0.47**	0.237	**0.27**	0.12		22	5M_12_6	15K
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	10mm	42	22.87	23.5	0.508	**0.59**	0.294	**0.34**	-0.03		22	5M_12_6	15K
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Bottom	10mm	\	22.87	23.5	0.334	**0.39**	0.197	**0.23**	0.06		22	5M_12_6	15K
1	Body	N66	349000	1745	CP-OFDM QPSK	Rear	10mm	\	22.28	23	0.439	**0.52**	0.255	**0.30**	0.02		22	5M_12_6	15K

Note1: The results are only for Power Level E1.

Note2: The results are only for Power Level C1.

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift		Power setting	BW RB	SCS
5	Head	N77	633334	3500.01	DFT-s-OFDM QPSK	Cheek Left	0mm	\	12.46	13.5	0.401	**0.51**	0.178	**0.23**	-0.07		11.5	20M_25_12	30K
5	Head	N77	633334	3500.01	DFT-s-OFDM QPSK	Tilt Left	0mm	\	12.46	13.5	0.399	**0.51**	0.173	**0.22**	0.12		11.5	20M_25_12	30K
5	Head	N77	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	12.46	13.5	0.258	**0.33**	0.119	**0.15**	0.04		11.5	20M_25_12	30K
5	Head	N77	633334	3500.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	12.46	13.5	0.287	**0.36**	0.129	**0.16**	-0.02		11.5	20M_25_12	30K
5	Head	N77	664666	3969.99	DFT-s-OFDM QPSK	Cheek Left	0mm	43	12.42	13.5	0.513	**0.66**	0.199	**0.26**	0.04		11.5	20M_25_12	30K
5	Head	N77	664666	3969.99	DFT-s-OFDM QPSK	Tilt Left	0mm	\	12.42	13.5	0.433	**0.56**	0.190	**0.24**	-0.11		11.5	20M_25_12	30K
5	Head	N77	664666	3969.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	12.42	13.5	0.326	**0.42**	0.150	**0.19**	0.03		11.5	20M_25_12	30K
5	Head	N77	664666	3969.99	DFT-s-OFDM QPSK	Tilt Right	0mm	\	12.42	13.5	0.372	**0.48**	0.163	**0.21**	0.09		11.5	20M_25_12	30K
5	Head	N77	664666	3969.99	CP-OFDM 256QAM	Cheek Left	0mm	\	12.37	13.5	0.489	**0.63**	0.186	**0.24**	-0.05		11.5	20M_25_12	30K
5	Head	N77	633334	3500.01	DFT-s-OFDM QPSK	Cheek Left	0mm	Note2	9.38	10.5	0.247	**0.32**	0.093	**0.12**	-0.02		8.5	20M_25_12	30K
5	Head	N77	633334	3500.01	DFT-s-OFDM QPSK	Tilt Left	0mm	Note2	9.38	10.5	0.245	**0.32**	0.084	**0.11**	0.05		8.5	20M_25_12	30K
5	Head	N77	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	Note2	9.38	10.5	0.109	**0.14**	0.040	**0.05**	-0.1		8.5	20M_25_12	30K
5	Head	N77	633334	3500.01	DFT-s-OFDM QPSK	Tilt Right	0mm	Note2	9.38	10.5	0.098	**0.13**	0.038	**0.05**	-0.08		8.5	20M_25_12	30K
5	Head	N77	664666	3969.99	DFT-s-OFDM QPSK	Cheek Left	0mm	Note2	9.31	10.5	0.266	**0.35**	0.104	**0.14**	-0.16		8.5	20M_25_12	30K
5	Head	N77	664666	3969.99	DFT-s-OFDM QPSK	Tilt Left	0mm	Note2	9.31	10.5	0.259	**0.34**	0.100	**0.13**	0.03		8.5	20M_25_12	30K
5	Head	N77	664666	3969.99	DFT-s-OFDM QPSK	Cheek Right	0mm	Note2	9.31	10.5	0.180	**0.24**	0.067	**0.09**	0.12		8.5	20M_25_12	30K
5	Head	N77	664666	3969.99	DFT-s-OFDM QPSK	Tilt Right	0mm	Note2	9.31	10.5	0.177	**0.23**	0.067	**0.09**	0.07		8.5	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Front	18mm	\	23.79	24.5	0.465	**0.55**	0.219	**0.26**	-0.14		23	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Rear	24mm	\	23.79	24.5	0.31	**0.37**	0.153	**0.18**	0.17		23	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Right	14mm	\	23.79	24.5	0.293	**0.35**	0.153	**0.18**	0.07		23	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Top	24mm	\	23.79	24.5	0.383	**0.45**	0.191	**0.22**	-0.11		23	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Front	18mm	44	23.91	24.5	0.796	**0.91**	0.37	**0.42**	-0.05		23	20M_25_12	30K
5	Body	N77	661200	3918	DFT-s-OFDM QPSK	Front	18mm	\	23.84	24.5	0.759	**0.88**	0.35	**0.41**	-0.03		23	20M_25_12	30K
5	Body	N77	657733	3866	DFT-s-OFDM QPSK	Front	18mm	\	23.64	24.5	0.725	**0.88**	0.334	**0.41**	-0.02		23	20M_25_12	30K
5	Body	N77	654266	3814	DFT-s-OFDM QPSK	Front	18mm	\	23.61	24.5	0.649	**0.80**	0.296	**0.36**	0.08		23	20M_25_12	30K
5	Body	N77	650800	3762	DFT-s-OFDM QPSK	Front	18mm	\	23.72	24.5	0.583	**0.70**	0.264	**0.32**	0.03		23	20M_25_12	30K
5	Body	N77	647334	3710.01	DFT-s-OFDM QPSK	Front	18mm	\	23.79	24.5	0.549	**0.65**	0.249	**0.29**	-0.14		23	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Rear	24mm	\	23.91	24.5	0.597	**0.68**	0.287	**0.33**	0.11		23	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Right	14mm	\	23.91	24.5	0.556	**0.64**	0.273	**0.31**	0.1		23	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Top	24mm	\	23.91	24.5	0.764	**0.88**	0.37	**0.42**	0.12		23	20M_25_12	30K
5	Body	N77	661200	3918	DFT-s-OFDM QPSK	Top	24mm	\	23.84	24.5	0.714	**0.83**	0.346	**0.40**	-0.14		23	20M_25_12	30K
5	Body	N77	657733	3866	DFT-s-OFDM QPSK	Top	24mm	\	23.64	24.5	0.669	**0.82**	0.32	**0.39**	0.11		23	20M_25_12	30K
5	Body	N77	654266	3814	DFT-s-OFDM QPSK	Top	24mm	\	23.61	24.5	0.613	**0.75**	0.295	**0.36**	0.06		23	20M_25_12	30K
5	Body	N77	650800	3762	DFT-s-OFDM QPSK	Top	24mm	\	23.72	24.5	0.538	**0.64**	0.259	**0.31**	0.14		23	20M_25_12	30K
5	Body	N77	647334	3710.01	DFT-s-OFDM QPSK	Top	24mm	\	23.79	24.5	0.493	**0.58**	0.237	**0.28**	0.01		23	20M_25_12	30K
5	Body	N77	664666	3969.99	CP-OFDM QPSK	Front	18mm	\	22.38	23	0.574	**0.66**	0.263	**0.30**	0.09		23	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Front	10mm	\	14.43	15.5	0.121	**0.15**	0.052	**0.07**	0.03		13.5	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Rear	10mm	\	14.43	15.5	0.115	**0.15**	0.049	**0.06**	-0.06		13.5	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Right	10mm	\	14.43	15.5	0.041	**0.05**	0.020	**0.03**	0.11		13.5	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Top	10mm	\	14.43	15.5	0.157	**0.20**	0.068	**0.09**	0.07		13.5	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Front	10mm	\	14.38	15.5	0.169	**0.22**	0.078	**0.10**	0.01		13.5	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Rear	10mm	\	14.38	15.5	0.170	**0.22**	0.076	**0.10**	-0.14		13.5	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Right	10mm	\	14.38	15.5	0.073	**0.09**	0.035	**0.05**	-0.02		13.5	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Top	10mm	\	14.38	15.5	0.259	**0.34**	0.109	**0.14**	-0.09		13.5	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Front	10mm	Note1	11.43	12.5	0.074	**0.09**	0.031	**0.04**	-0.07		10.5	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Rear	10mm	Note1	11.43	12.5	0.063	**0.08**	0.028	**0.04**	0.02		10.5	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Right	10mm	Note1	11.43	12.5	0.035	**0.04**	0.008	**0.01**	-0.13		10.5	20M_25_12	30K
5	Body	N77	633334	3500.01	DFT-s-OFDM QPSK	Top	10mm	Note1	11.43	12.5	0.083	**0.11**	0.034	**0.04**	0.08		10.5	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Front	10mm	Note1	11.39	12.5	0.096	**0.12**	0.043	**0.06**	-0.01		10.5	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Rear	10mm	Note1	11.39	12.5	0.085	**0.11**	0.037	**0.05**	-0.04		10.5	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Right	10mm	Note1	11.39	12.5	0.074	**0.10**	0.019	**0.02**	0.06		10.5	20M_25_12	30K
5	Body	N77	664666	3969.99	DFT-s-OFDM QPSK	Top	10mm	Note1	11.39	12.5	0.129	**0.17**	0.056	**0.07**	-0.09		10.5	20M_25_12	30K
0	Head	N7	507000	2535	DFT-s-OFDM QPSK	Cheek Left	0mm	\	24.29	25	0.073	**0.09**	0.043	**0.05**	-0.01		23.5	40M_108_54	15K
0	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Left	0mm	\	24.29	25	0.074	**0.09**	0.039	**0.05**	-0.06		23.5	40M_108_54	15K
0	Head	N7	507000	2535	DFT-s-OFDM QPSK	Cheek Right	0mm	45	24.29	25	0.136	**0.16**	0.076	**0.09**	-0.09		23.5	40M_108_54	15K
0	Head	N7	507000	2535	DFT-s-OFDM QPSK	Tilt Right	0mm	\	24.29	25	0.065	**0.08**	0.036	**0.04**	0.02		23.5	40M_108_54	15K
0	Head	N7	507000	2535	CP-OFDM QPSK	Cheek Right	0mm	\	22.69	23.5	0.105	**0.13**	0.061	**0.07**	0.03		23.5	40M_108_54	15K
0	Body	N7	507000	25350	DFT-s-OFDM QPSK	Front	14mm	\	24.29	25	0.562	**0.66**	0.326	**0.38**	0.07		23.5	40M_108_54	15K
0	Body	N7	507000	2535	DFT-s-OFDM QPSK	Rear	18mm	\	24.29	25	0.461	**0.54**	0.254	**0.30**	-0.04		23.5	40M_108_54	15K
0	Body	N7	507000	2535	DFT-s-OFDM QPSK	Left	10mm	\	24.29	25	0.076	**0.09**	0.041	**0.05**	0.09		23.5	40M_108_54	15K
0	Body	N7	507000	2535	DFT-s-OFDM QPSK	Right	10mm	\	24.29	25	0.219	**0.26**	0.131	**0.15**	-0.03		23.5	40M_108_54	15K
0	Body	N7	510000	2550	DFT-s-OFDM QPSK	Bottom	18mm	\	24.16	25	0.590	**0.72**	0.323	**0.39**	0.11		23.5	40M_108_54	15K
0	Body	N7	507000	2535	DFT-s-OFDM QPSK	Bottom	18mm	46	24.29	25	0.662	**0.78**	0.359	**0.42**	0.02		23.5	40M_108_54	15K
0	Body	N7	504000	2520	DFT-s-OFDM QPSK	Bottom	18mm	\	24.08	25	0.582	**0.72**	0.333	**0.41**	0.04		23.5	40M_108_54	15K
0	Body	N7	507000	2535	CP-OFDM QPSK	Bottom	18mm	\	22.69	23.5	0.459	**0.55**	0.256	**0.31**	-0.08		23.5	40M_108_54	15K
0	Body	N7	507000	2535	DFT-s-OFDM QPSK	Front	10mm	\	16.61	17	0.148	**0.16**	0.077	**0.08**	-0.11		15.5	40M_108_54	15K
0	Body	N7	507000	2535	DFT-s-OFDM QPSK	Rear	10mm	\	16.61	17	0.180	**0.20**	0.095	**0.10**	-0.01		15.5	40M_108_54	15K
0	Body	N7	507000	2535	DFT-s-OFDM QPSK	Bottom	10mm	\	16.61	17	0.321	**0.35**	0.160	**0.18**	-0.03		15.5	40M_108_54	15K
4	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Left	0mm	\	17.28	18.5	0.201	**0.27**	0.12	**0.16**	0.09		17	5M_12_6	15K
4	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Left	0mm	\	17.28	18.5	0.322	**0.43**	0.176	**0.23**	0.05		17	5M_12_6	15K
4	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Right	0mm	\	17.28	18.5	0.253	**0.34**	0.143	**0.19**	-0.14		17	5M_12_6	15K
4	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Right	0mm	47	17.28	18.5	0.366	**0.48**	0.179	**0.24**	0.02		17	5M_12_6	15K
4	Head	N66	349000	1745	CP-OFDM 64QAM	Tilt Right	0mm	\	17.25	18.5	0.351	**0.47**	0.172	**0.23**	-0.09		17	5M_12_6	15K
4	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	13mm	\	23.68	25	0.174	**0.24**	0.109	**0.15**	0.05		23.5	5M_12_6	15K
4	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	19mm	\	23.68	25	0.146	**0.20**	0.092	**0.12**	-0.07		23.5	5M_12_6	15K
4	Body	N66	349000	1745	DFT-s-OFDM QPSK	Left	10mm	\	23.68	25	0.079	**0.11**	0.049	**0.07**	-0.06		23.5	5M_12_6	15K
4	Body	N66	349000	1745	DFT-s-OFDM QPSK	Top	18mm	\	23.68	25	0.191	**0.26**	0.115	**0.16**	-0.01		23.5	5M_12_6	15K
4	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	10mm	\	20.25	21.5	0.177	**0.24**	0.111	**0.15**	0.11		20	5M_12_6	15K
4	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	10mm	\	20.25	21.5	0.241	**0.32**	0.121	**0.16**	0.06		20	5M_12_6	15K
4	Body	N66	349000	1745	DFT-s-OFDM QPSK	Top	10mm	48	20.25	21.5	0.245	**0.33**	0.132	**0.18**	-0.01		20	5M_12_6	15K
4	Body	N66	349000	1745	CP-OFDM 16QAM	Top	10mm	\	20.21	21.5	0.234	**0.31**	0.125	**0.17**	-0.07		20	5M_12_6	15K

Note1: The results are only for Power Level E1.

Note2: The results are only for Power Level C1.

14.3 SAR Evaluation for WIFI

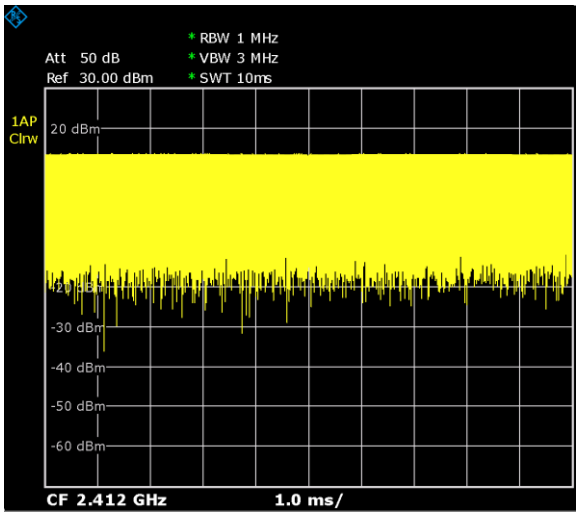
The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default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

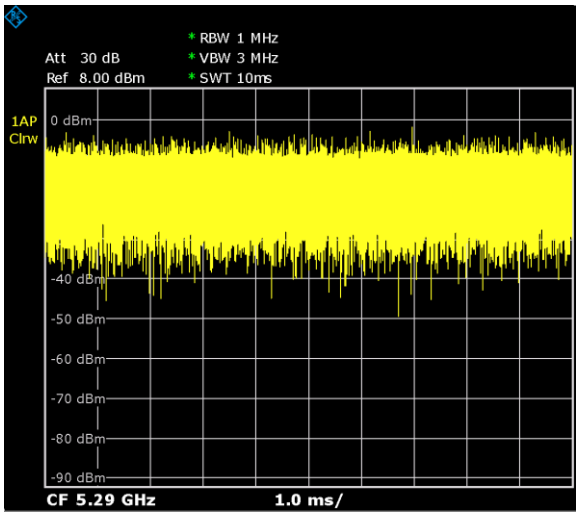
SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest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

Duty factor plot

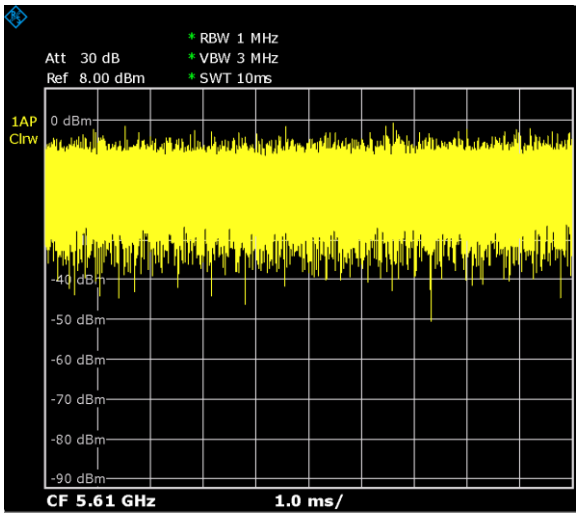
CH1



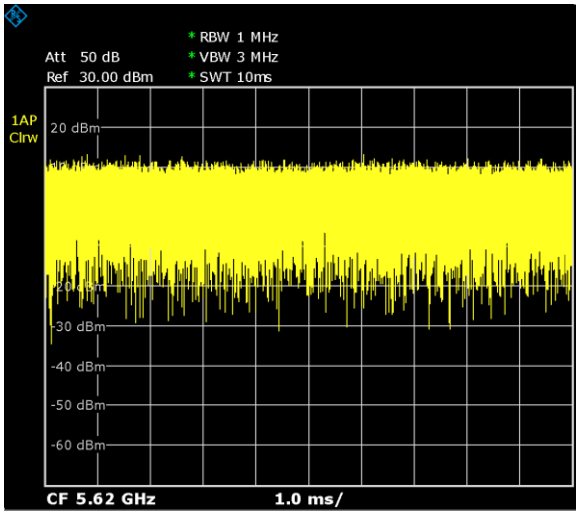
CH58



CH122



CH124



SAR results for WLAN 2.4G

ANT	RF Exposure Condition	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
WIFI 802.11b 1M 12dB															
6	Head	WIFI2.4G	1	2412	WIFI 802.11b 1M	Cheek Left	0mm	\	12.47	13.5	0.22	**0.28**	0.107	**0.14**	0.16
6	Head	WIFI2.4G	1	2412	WIFI 802.11b 1M	Tilt Left	0mm	49	12.47	13.5	0.254	**0.32**	0.109	**0.14**	-0.04
6	Head	WIFI2.4G	1	2412	WIFI 802.11b 1M	Cheek Right	0mm	\	12.47	13.5	0.06	**0.08**	0.031	**0.04**	0.12
6	Head	WIFI2.4G	1	2412	WIFI 802.11b 1M	Tilt Right	0mm	\	12.47	13.5	0.071	**0.09**	0.033	**0.04**	-0.02
WIFI 802.11b 1M 19dB															
6	Body	WIFI2.4G	1	2412	WIFI 802.11b 1M	Front	18mm	\	19.24	20.5	0.084	**0.11**	0.046	**0.06**	0.04
6	Body	WIFI2.4G	1	2412	WIFI 802.11b 1M	Rear	24mm	\	19.24	20.5	0.079	**0.11**	0.042	**0.06**	-0.17
6	Body	WIFI2.4G	1	2412	WIFI 802.11b 1M	Right	14mm	50	19.24	20.5	0.156	**0.21**	0.086	**0.11**	-0.01
6	Body	WIFI2.4G	1	2412	WIFI 802.11b 1M	Top	24mm	\	19.24	20.5	0.118	**0.16**	0.06	**0.08**	-0.1
WIFI 802.11b 1M 14dB ANT7															
6	Body	WIFI2.4G	1	2412	WIFI 802.11b 1M	Front	10mm	\	14.39	15.5	0.065	**0.08**	0.036	**0.05**	0.14
6	Body	WIFI2.4G	1	2412	WIFI 802.11b 1M	Rear	10mm	\	14.39	15.5	0.066	**0.09**	0.03	**0.04**	0.06
6	Body	WIFI2.4G	1	2412	WIFI 802.11b 1M	Right	10mm	\	14.39	15.5	0.072	**0.09**	0.039	**0.05**	-0.09
6	Body	WIFI2.4G	1	2412	WIFI 802.11b 1M	Top	10mm	\	14.39	15.5	0.068	**0.09**	0.029	**0.04**	-0.07

SAR results for WLAN 5G

ANT	RF Exposure Condition	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
WIFI 802.11ac 80M MCS0 11dB															
6	Head	WIFI5G	58	5290	WIFI 802.11ac 80M MCS0	Cheek Left	0mm	\	11.12	12.5	0.116	**0.16**	0.039	**0.05**	-0.08
6	Head	WIFI5G	58	5290	WIFI 802.11ac 80M MCS0	Tilt Left	0mm	51	11.12	12.5	0.145	**0.20**	0.046	**0.06**	0.1
6	Head	WIFI5G	58	5290	WIFI 802.11ac 80M MCS0	Cheek Right	0mm	\	11.12	12.5	0.082	**0.11**	0.028	**0.04**	-0.18
6	Head	WIFI5G	58	5290	WIFI 802.11ac 80M MCS0	Tilt Right	0mm	\	11.12	12.5	0.093	**0.13**	0.032	**0.04**	-0.13
WIFI 802.11ac 80M MCS0 11dB															
6	Head	WIFI5G	122	5610	WIFI 802.11ac 80M MCS0	Cheek Left	0mm	\	11.08	12.5	0.11	**0.15**	0.04	**0.06**	-0.17
6	Head	WIFI5G	122	5610	WIFI 802.11ac 80M MCS0	Tilt Left	0mm	\	11.08	12.5	0.133	**0.18**	0.046	**0.06**	-0.06
6	Head	WIFI5G	122	5610	WIFI 802.11ac 80M MCS0	Cheek Right	0mm	\	11.08	12.5	0.089	**0.12**	0.031	**0.04**	0.03
6	Head	WIFI5G	122	5610	WIFI 802.11ac 80M MCS0	Tilt Right	0mm	\	11.08	12.5	0.113	**0.16**	0.04	**0.06**	0.06
WIFI 802.11ac 80M MCS0 11dB															
6	Head	WIFI5G	155	5775	WIFI 802.11ac 80M MCS0	Cheek Left	0mm	\	10.89	12.5	0.102	**0.15**	0.038	**0.06**	-0.17
6	Head	WIFI5G	155	5775	WIFI 802.11ac 80M MCS0	Tilt Left	0mm	\	10.89	12.5	0.133	**0.19**	0.045	**0.07**	-0.03
6	Head	WIFI5G	155	5775	WIFI 802.11ac 80M MCS0	Cheek Right	0mm	\	10.89	12.5	0.089	**0.13**	0.033	**0.05**	0.11
6	Head	WIFI5G	155	5775	WIFI 802.11ac 80M MCS0	Tilt Right	0mm	\	10.89	12.5	0.108	**0.16**	0.04	**0.06**	-0.1
WIFI 802.11a 6M 18dB															
6	Body	WIFI5G	56	5280	WIFI 802.11a 6M	Front	18mm	\	18.67	19.5	0.108	**0.13**	0.049	**0.06**	0.02
6	Body	WIFI5G	56	5280	WIFI 802.11a 6M	Rear	24mm	\	18.67	19.5	0.31	**0.38**	0.144	**0.17**	0.09
6	Body	WIFI5G	56	5280	WIFI 802.11a 6M	Right	14mm	\	18.67	19.5	0.137	**0.17**	0.067	**0.08**	-0.08
6	Body	WIFI5G	56	5280	WIFI 802.11a 6M	Top	24mm	\	18.67	19.5	0.231	**0.28**	0.106	**0.13**	0.17
WIFI 802.11a 6M 18dB															
6	Body	WIFI5G	124	5620	WIFI 802.11a 6M	Front	18mm	\	18.58	19.5	0.153	**0.19**	0.041	**0.05**	-0.04
6	Body	WIFI5G	124	5620	WIFI 802.11a 6M	Rear	24mm	52	18.58	19.5	0.39	**0.48**	0.175	**0.22**	0.01
6	Body	WIFI5G	124	5620	WIFI 802.11a 6M	Right	14mm	\	18.58	19.5	0.176	**0.22**	0.082	**0.10**	0.1
6	Body	WIFI5G	124	5620	WIFI 802.11a 6M	Top	24mm	\	18.58	19.5	0.36	**0.44**	0.151	**0.19**	0.08
WIFI 802.11a 6M 18dB															
6	Body	WIFI5G	161	5805	WIFI 802.11a 6M	Front	18mm	\	18.35	19.5	0.116	**0.15**	0.028	**0.04**	-0.04
6	Body	WIFI5G	161	5805	WIFI 802.11a 6M	Rear	24mm	\	18.35	19.5	0.309	**0.40**	0.133	**0.17**	0.01
6	Body	WIFI5G	161	5805	WIFI 802.11a 6M	Right	14mm	\	18.35	19.5	0.095	**0.12**	0.026	**0.03**	0.15
6	Body	WIFI5G	161	5805	WIFI 802.11a 6M	Top	24mm	\	18.35	19.5	0.251	**0.33**	0.107	**0.14**	0.02
WIFI 802.11ac 80M MCS0 13dB															
6	Body	WIFI5G	58	5290	WIFI 802.11ac 80M MCS0	Front	10mm	\	13.18	14.5	0.054	**0.07**	0.02	**0.03**	0.07
6	Body	WIFI5G	58	5290	WIFI 802.11ac 80M MCS0	Rear	10mm	\	13.18	14.5	0.142	**0.19**	0.051	**0.07**	0.11
6	Body	WIFI5G	58	5290	WIFI 802.11ac 80M MCS0	Right	10mm	\	13.18	14.5	0.06	**0.08**	0.023	**0.03**	-0.13
6	Body	WIFI5G	58	5290	WIFI 802.11ac 80M MCS0	Top	10mm	\	13.18	14.5	0.151	**0.20**	0.055	**0.07**	0.09
WIFI 802.11ac 80M MCS0 13dB															
6	Body	WIFI5G	122	5610	WIFI 802.11ac 80M MCS0	Front	10mm	\	13.06	14.5	0.061	**0.08**	0.022	**0.03**	0.12
6	Body	WIFI5G	122	5610	WIFI 802.11ac 80M MCS0	Rear	10mm	\	13.06	14.5	0.2	**0.28**	0.067	**0.09**	0.14
6	Body	WIFI5G	122	5610	WIFI 802.11ac 80M MCS0	Right	10mm	\	13.06	14.5	0.067	**0.09**	0.024	**0.03**	0.16
6	Body	WIFI5G	122	5610	WIFI 802.11ac 80M MCS0	Top	10mm	\	13.06	14.5	0.209	**0.29**	0.072	**0.10**	0.08
WIFI 802.11ac 80M MCS0 13dB															
6	Body	WIFI5G	155	5775	WIFI 802.11ac 80M MCS0	Front	10mm	\	12.75	14.5	0.074	**0.11**	0.026	**0.04**	-0.14
6	Body	WIFI5G	155	5775	WIFI 802.11ac 80M MCS0	Rear	10mm	\	12.75	14.5	0.166	**0.25**	0.056	**0.08**	-0.16
6	Body	WIFI5G	155	5775	WIFI 802.11ac 80M MCS0	Right	10mm	\	12.75	14.5	0.056	**0.08**	0.021	**0.03**	-0.05
6	Body	WIFI5G	155	5775	WIFI 802.11ac 80M MCS0	Top	10mm	\	12.75	14.5	0.174	**0.26**	0.059	**0.09**	-0.05

14.4 SAR Evaluation For BT

SAR results for BT

ANT	RF Exposure Condition	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
BT															
6	Head	BT	39	2441	DH5	Cheek Left	0mm	\	10.32	12.5	0.153	**0.25**	0.07	**0.12**	-0.04
6	Head	BT	39	2441	DH5	Tilt Left	0mm	53	10.32	12.5	0.168	0.28	0.072	**0.12**	-0.09
6	Head	BT	39	2441	DH5	Cheek Right	0mm	\	10.32	12.5	0.045	**0.07**	0.023	**0.04**	0.11
6	Head	BT	39	2441	DH5	Tilt Right	0mm	\	10.32	12.5	0.048	**0.08**	0.023	**0.04**	0.09
BT															
6	Body	BT	39	2441	DH5	Front	10mm	\	10.32	12.5	0.033	**0.05**	0.019	**0.03**	0.02
6	Body	BT	39	2441	DH5	Rear	10mm	\	10.32	12.5	0.021	**0.03**	0.012	**0.02**	0.15
6	Body	BT	39	2441	DH5	Right	10mm	\	10.32	12.5	0.034	**0.06**	0.02	**0.03**	0.17
6	Body	BT	39	2441	DH5	Top	10mm	54	10.32	12.5	0.048	0.08	0.022	**0.04**	-0.03

14.5 SAR results for 10-g extremity SAR

According to the KDB648474 D04, 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. If power reduction applied for hotspot mode, the SAR values should be scaled to normal power, and then compare it with 1.2W/kg.

The 10g extremity SAR is not required for this DUT, because all the hotspot mode 1g reported SAR is less than 1.2 W/kg.

15 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

16 Measurement Uncertainty

16.1 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	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	√3	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	√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	√3	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	√3	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	√3	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	√3	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	√3	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	√3	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	√3	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	√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	√3	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	√3	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	√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	√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

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	

16.2 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	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	√3	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	√3	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	√3	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	√3	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	√3	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	√3	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	√3	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	√3	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	√3	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	√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	√3	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	√3	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	√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	√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
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	

16.3 Measurement Uncertainty for Fast 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	√3	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	√3	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	√3	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	√3	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	√3	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	√3	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	√3	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	√3	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.4	R	√3	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	√3	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	√3	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	7.0	R	√3	1	1	4.0	4.0	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	√3	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	√3	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	√3	0.64	0.43	1.8	1.2	∞

20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c^{'} = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						10.4	10.3	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						20.8	20.6	

16.4 Measurement Uncertainty for Fast 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	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5

17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c^{'} = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						13.5	13.4	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						27.0	26.8	

17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	December 25, 2023	One year
02	Power sensor	NRP110T	101139	January 13, 2024	One year
03	Power sensor	NRP110T	101159	January 13, 2024	One year
04	Signal Generator	E4438C	MY49071430	December 25, 2023	One year
05	Dielectric Probe Kit	85070E	Agilent	No Calibration Requested	
06	Directional Coupler	778D	MY48220584	No Calibration Requested	
07	Amplifier	60S1G4	0331848	No Calibration Requested	
08	BTS	CMW500	159890	January 9, 2024	One year
09	E-field Probe	SPEAG EX3DV4	7825	September 27, 2023	One year
10	DAE	SPEAG DAE4ip	1832	September 27, 2023	One year
11	Dipole Validation Kit	SPEAG D750V3	1017	July 14,2023	Three years
12	Dipole Validation Kit	SPEAG D835V2	4d069	July 14,2023	Three years
13	Dipole Validation Kit	SPEAG D1800V2	2d145	July 12,2023	Three years
14	Dipole Validation Kit	SPEAG D1900V2	5d101	July 17,2023	Three years
15	Dipole Validation Kit	SPEAG D2450V2	853	July 11,2023	Three years
16	Dipole Validation Kit	SPEAG D2600V2	1012	July 11,2023	Three years
17	Dipole Validation Kit	SPEAG D3500V2	1016	June 21,2023	Three years
18	Dipole Validation Kit	SPEAG D3700V2	1004	June 21,2023	Three years
19	Dipole Validation Kit	SPEAG D3900V2	1024	June 21,2023	Three years
20	Dipole Validation Kit	SPEAG D5GHzV2	1060	June 19,2023	Three years

END OF REPORT BODY

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 Accreditation Certificate