
TEST REPORT FOR SAR TESTING

Report No.: SRTC2021-9004(F)-21061503(H)

Product Name: Mobile Broadband Internet Device

Product Model: K95L

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

Specification: Part 2.1093

IEEE Std 1528

KDB Procedures

FCC ID: SRQ-K95L

The State Radio_monitoring_center Testing Center (SRTC)

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1. GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested. The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
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Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Guangdong
City:	Shenzhen
Country or Region:	China
Contacted person:	Gong Yu
Tel:	86-21-68895397
Email:	gongyu@zte.com.cn

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2021.06.15
Testing Start Date:	2021.06.15
Testing End Date:	2021.07.06

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	40

Normal Supply Voltage (Vdc.):	3.8
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2. DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Wireless Technology and Frequency Bands	<input type="checkbox"/> GSM Band: GSM850/GSM1900 <input checked="" type="checkbox"/> WCDMA Band: FDD II/IV/V <input checked="" type="checkbox"/> LTE Band: 2/4/5/7/12/13/66/71 <input checked="" type="checkbox"/> Wi-Fi Band: 2.4GHz&5GHz UNII-1&UNII-3 <input checked="" type="checkbox"/> BT/BLE
Mode	<p>GSM</p> <input type="checkbox"/> GPRS (GMSK) <input type="checkbox"/> EGPRS (GMSK/8PSK) <p>WCDMA</p> <input checked="" type="checkbox"/> UMTS Rel. 99 <input checked="" type="checkbox"/> HSDPA (Rel. 5) <input checked="" type="checkbox"/> HSUPA (Rel. 6) <input checked="" type="checkbox"/> HSPA+ (Rel.7) <input checked="" type="checkbox"/> DC-HSDPA (Rel.8) <p>LTE</p> <input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input checked="" type="checkbox"/> 64QAM <p>Bluetooth</p> <input checked="" type="checkbox"/> BR(GFSK) <input checked="" type="checkbox"/> EDR($\pi/4$ DQPSK , 8-DPSK) <input checked="" type="checkbox"/> BLE(GFSK) <p>Wi-Fi 2.4GHz</p> <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n (20MHz/40MHz) <p>Wi-Fi 5GHz</p> <input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n (20MHz/40MHz) <input checked="" type="checkbox"/> 802.11ac (20MHz/40MHz/80MHz)
Duty Cycle*	<p>GPRS: 12.5% (1 Slot), 25% (2 Slots), 37.5% (3 Slots), 50% (4 Slots) EDGE(GMSK/8PSK) 12.5% (1 Slot), 25% (2 Slots), 37.5% (3 Slots), 50% (4 Slots) WCDMA: 100% LTE(FDD): 100% LTE(TDD): maximum63.3% 2.4GHz: 802.11b:98.52% 802.11g:97.62% 802.11n20:97.48% 802.11n40:93.20% 5GHz UNII-1: 802.11a:97.87% 802.11n20:97.74% 802.11n40:95.22% 802.11ac20: 97.64% 802.11ac40: 95.41% 802.11ac80:90.40% 5GHz UNII-3: 802.11a:97.91% 802.11n20:97.80% 802.11n40:95.79% 802.11ac20: 97.92% 802.11ac40: 95.81% 802.11ac80:91.63% BT BR 1M:96.41% BT EDR 2M:96.41% BT EDR 3M:96.41% BLE:94.23%</p>
Multi-Slot Class for GPRS/EDGE	<input type="checkbox"/> Class 8 - One Up <input type="checkbox"/> Class 10 - Two Up <input type="checkbox"/> Class 12 - Four Up <input type="checkbox"/> Class 33- Four Up

Mobile Phone Capability	<input type="checkbox"/> Class A - Mobile phones can be connected to both GPRS and GSM services simultaneously. <input type="checkbox"/> Class B - Mobile phones can be attached to both GPRS and GSM services, using one service at a time. <input type="checkbox"/> Class C - Mobile phones are attached to either GPRS or GSM voice service. You need to switch manually between services
DTM	Not Supported
Note	For licensed cellular network duty cycle is inherent. For unlicensed network WLAN Duty cycle is depends on the data traffic, and the traffic allocation in operating mode could be the most conservative condition which with 100% duty cycle. SAR measurement also use non signalling mode, so the duty factor shall be taken into consideration.

2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

State of sample	Normal
H/W Version	K95LHW1.0
S/W Version	K95L_CAV1.0.0B01
IMEI	Sample1:860907050003206 Sample2:860907050003255
Notes	As the information described above, we use test sample offered by the customer. The relevant tests have been performed in order to verify in which combination case the EUT would have the worst features.

Equipment	Battery
Manufacturer	SCUD (FUJIAN) Electronics Co., Ltd.
Model Number	Li3972T44P8hD9C628

3. REFERENCE SPECIFICATION

Specification	Version	Title
Part 2.1093	2019	Radiofrequency radiation exposure evaluation: portable devices.
IEEE Std 1528	2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 447498 D01	v06	General RF Exposure Guidance
KDB 447498 D02	v02r01	SAR MEASUREMENT PROCEDURES FOR USB DONGLE TRANSMITTERS
KDB 616217 D04	v01r02	SAR for laptop and tablets
KDB 648474 D04	v01r03	Handset SAR
KDB 941225 D01	v03r01	3G SAR Procedures
KDB 248227 D01	v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 865664 D01	v01r04	SAR Measurement from 100 MHz to 6 GHz
KDB 865664 D02	v01r02	RF Exposure Reporting
KDB 941225 D05	v02r05	SAR for LTE Devices

4. TEST CONDITIONS

4.1 Picture to demonstrate the required liquid depth

The liquid depth is large than 15cm in the used SAM phantoms in flat section, and the depth of the tissue simulant was 15.0 ± 0.5 cm measured from the ear reference point during system checking and device measurements.



Liquid depth for SAR Measurement

4.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on middle channel, and few of them were also performed on lowest and highest channels.

4.3 SAR Measurement Set-up

The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than $\pm 0.02\text{mm}$. Special E-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit. A cell controller system contains the power supply, robot controller, teaches pendant (Joystick), and remote control, is used to drive the robot motors.

The PC consists of the Micron Pentium IV computer with Win7 system and SAR Measurement Software DASY5 Professional, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot.

A data acquisition electronic (DAE) circuit performs the signal amplification; signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines.

The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection

The robot uses its own controller with a built in VME-bus computer.

4.4 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles. **There is no need for shifting because radiating structures are small compared to both the DUT and the phantom and/or the first area scan shows that the SAR distribution is entirely captured within the scanning area.**

The SPEAG device holder was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.5 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528. All tests were carried out using simulants whose dielectric parameters were within

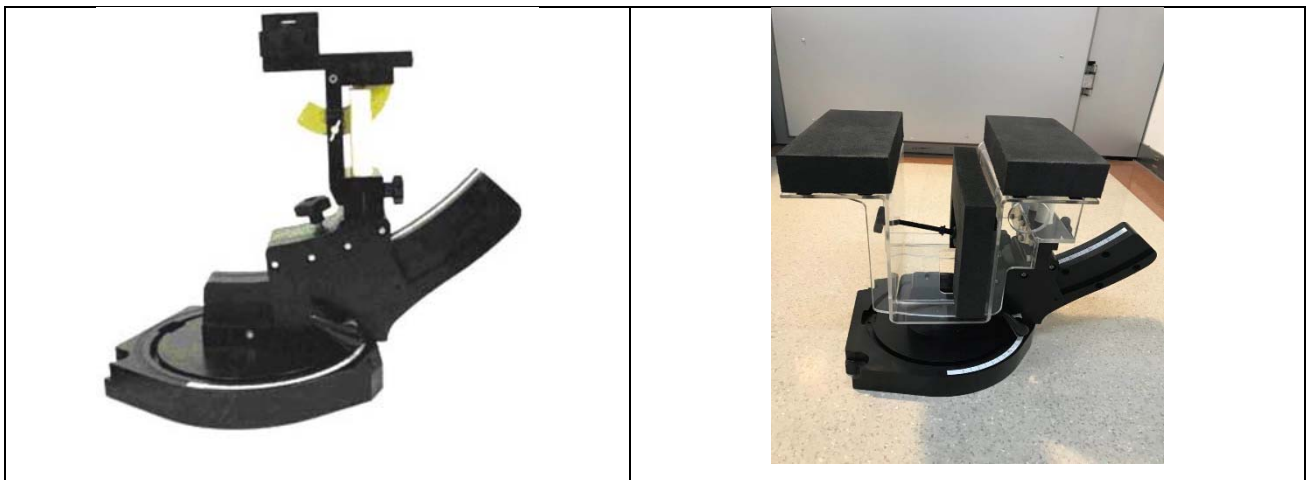
$\pm 10\%$ below 3GHz and $\pm 5\%$ above 3GHz of the recommended values when use DASY system according to KDB865664D01. All tests were carried out within 24 hours of measuring the dielectric parameters.

Tissue Stimulant Recipes	
Name	Broadband tissue-equivalent liquid
Type	HBBL600-10000V6 Simulating Liquid
Note: The stimulant could be the same for head and body.	

4.6 DESCRIPTION OF THE TEST PROCEDURE

4.6.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.



Device holder supplied by SPEAG

4.6.2 Test Exposure Conditions

4.6.2.1 Head Configuration

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

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

4.6.2.2 Body Worn Configuration

The device was placed in the SPEAG holder below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance using a separate flat spacer that was removed before the start of the measurements. And the distance is normally determined according to the actual scene which might be the worst use condition for general exposure. The device's front and rear were oriented facing the phantom since these orientations give higher results for most regular portable devices.

4.6.2.3 Hotspot Configuration

Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge; for the data modes, wireless technologies and frequency bands supporting hotspot mode.

4.6.3 Scan Procedure

First, area scans were used for determination of the field distribution and the approximate location of the local peak SAR values. The SAR distribution is scanned along the inside surface, at least for an area larger than the projection of the handset and antenna. The angle between the probe axis and the surface normal line is recommended but not required to be less than 30°. The SAR distribution is first measured on a 2-D coarse grid. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. There are 15 mm × 15 mm (equal or less than 2GHz), 12 mm × 12 mm (from 2GHz~4GHz) and 10mm x 10mm (from 4GHz~6GHz) measurement grid used when two staggered one-dimensional cubic splines are used to estimate the maximum SAR location.

When the reported 1g-SAR estimated by area scan is less than 1.40 w/kg.

Zoom scan was performed by using the configuration mentioned below or more conservative scan area and step to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

Below 3GHz: 32mmX32mmX30mm scan area with 8 mm X8 mm X5 mm steps

2GHz-3GHz: 32mmX32mmX30mm scan area with 8 mm X8 mm X5 mm steps

3GHz-4GHz: 28mmX28mmX28mm scan area with 7 mm X7 mm X4 mm steps

4GHz-5GHz: 25mmX25mmX24mm scan area with 5 mm X5 mm X3 mm steps

5GHz-6GHz: 25mmX25mmX22mm scan area with 5 mm X5 mm X2 mm steps

4.6.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within DASYS are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation of Large Sets of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighboring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics.

In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

5 RESULT SUMMARY

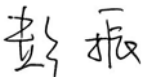

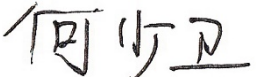
The maximum reported SAR values for Body configuration are given as follows. The device conforms to the requirements of the standard(s) when the maximum reported SAR value is less than or equal to the limit.

Standalone Transmission

Standalone Transmission Summary(1g- SAR)					
Exposure Position	Frequency Band	SAR Result(W/kg)	Highest SAR Result(W/kg)	Limit(W/kg)	Verdict
Body	WCDMA Band II	1.20	1.38	1.60	Pass
	WCDMA Band IV	1.13			
	WCDMA Band V	0.85			
	LTE Band 2	1.04			
	LTE Band 4	1.00			
	LTE Band 5	0.67			
	LTE Band 7	1.38			
	LTE Band 12	0.88			
	LTE Band 13	0.67			
	LTE Band 66	0.67			
	LTE Band 71	0.37			
	BT/BLE	0.93			
	WLAN2.4GHz	0.91			
	WLAN5GHz UNII-1	0.18			
WLAN5GHz UNII-3	0.85				

Simultaneous Transmission (worst case)

Simultaneous Transmission Summary(1g- SAR)					
Exposure Position	Combination list	SAR Result(W/kg)	Highest SAR Result(W/kg)	Limit(W/kg)	Verdict
Body	WCDMA B2+ WLAN 2.4GHz SISO/MIMO	1.43	1.43	1.60	Pass
	WCDMA B2 + WLAN 5GHz SISO/MIMO	1.39			
	WCDMA B2+ Bluetooth	1.39			

This Test Report Is Approved by: Mr. Peng Zhen 	Review by: Mr. Li Bin 
Tested and issued by: Mr. He Shaowei 	Approved date: 2020.07.13

6 TEST RESULT

6.1 Conducted Power and Tune-up Tolerance

WCDMA Measurement result

Release 99

The following procedures are according to FCC KDB Publication 941225 D01.

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 1
	RMC mode AMR mode	12.2kbps RMC 12.2kbps RMC in 3.4 kbps SRB
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

Release 5

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121.

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM(dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/18	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Release 6

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121.

Sub-test	β_c	β_d	β_d (S F)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (S F)	β_{ed} (code s)	CM ⁽²⁾ (dB)	M PR (d B)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/25	1039/25	4	1	1.0	2.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	2.0	2.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	2.0	21	81

Note1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note2: CM=1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

NOTE5: Testing UE using E-DPDCH Physical layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

NOTE6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Release 7

The following 1 Sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 30/15$ with $\beta_{Hz} = 30/15 * \beta_c$.
 Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
 Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.
 Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
 Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

Release 8

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{inf})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK

Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.
 Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.

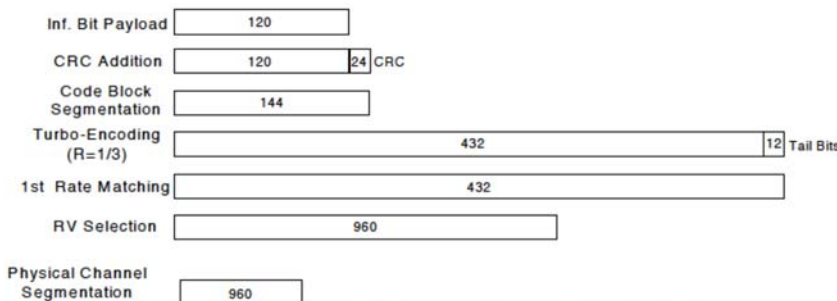


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121.

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM(dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/18	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	Tuneup Tolerance (dBm)	Reduced RF Power Output (dBm)	Tuneup Tolerance (dBm)
Release 99	RMC, 12.2kbps	1852.4	9262	24.52	25.0	16.02	16.5
		1880	9400	24.61		16.11	
		1907.6	9538	24.59		16.09	
HSDPA	Subtest1	1852.4	9262	21.64	22.0	13.14	13.5
		1880	9400	21.74		13.24	
		1907.6	9538	21.60		13.10	
	Subtest2	1852.4	9262	21.67		13.17	
		1880	9400	21.14		12.64	
		1907.6	9538	21.48		12.98	
	Subtest3	1852.4	9262	21.09		12.59	
		1880	9400	21.12		12.62	
		1907.6	9538	21.21		12.71	
	Subtest4	1852.4	9262	21.03		12.53	
		1880	9400	21.33		12.83	
		1907.6	9538	20.94		12.44	
HSUPA	Subtest1	1852.4	9262	20.65	21.0	12.15	12.5
		1880	9400	20.72		12.22	
		1907.6	9538	20.77		12.27	
	Subtest2	1852.4	9262	20.65		12.15	
		1880	9400	20.68		12.18	
		1907.6	9538	20.71		12.21	
	Subtest3	1852.4	9262	20.46		11.96	
		1880	9400	20.48		11.98	
		1907.6	9538	20.81		12.31	
	Subtest4	1852.4	9262	20.66		12.16	
		1880	9400	20.69		12.19	
		1907.6	9538	20.68		12.18	
	Subtest5	1852.4	9262	20.54		12.04	
		1880	9400	20.60		12.10	
		1907.6	9538	20.49		11.99	
HSPA+	QPSK	1852.4	9262	21.14	21.5	12.64	13.0
		1880	9400	21.23		12.73	
		1907.6	9538	21.09		12.59	
	16QAM	1852.4	9262	21.06		12.56	
		1880	9400	21.05		12.55	
		1907.6	9538	21.21		12.71	
DC-HSDPA	Subtest1	1852.4	9262	21.67	22.0	13.17	13.5
		1880	9400	21.60		13.10	
		1907.6	9538	21.71		13.21	
	Subtest2	1852.4	9262	21.41		12.91	
		1880	9400	21.37		12.87	
		1907.6	9538	21.39		12.89	

	Subtest3	1852.4	9262	21.24		12.74	
		1880	9400	21.41		12.91	
		1907.6	9538	21.30		12.80	
	Subtest4	1852.4	9262	20.93		12.43	
		1880	9400	21.64		13.14	
		1907.6	9538	21.10		12.60	

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	Tuneup Tolerance (dBm)	Reduced RF Power Output (dBm)	Tuneup Tolerance (dBm)
Release 99	RMC, 12.2kbps	1712.4	1312	24.61	25.0	17.52	18.0
		1732.6	1413	24.62		17.61	
		1752.6	1513	24.79		17.59	
HSDPA	Subtest1	1712.4	1312	21.83	22.0	14.64	15.0
		1732.6	1413	21.89		14.74	
		1752.6	1513	21.79		14.60	
	Subtest2	1712.4	1312	21.56		14.67	
		1732.6	1413	21.44		14.14	
		1752.6	1513	21.61		14.48	
	Subtest3	1712.4	1312	21.04		14.09	
		1732.6	1413	21.18		14.12	
		1752.6	1513	21.65		14.21	
	Subtest4	1712.4	1312	21.28		14.03	
		1732.6	1413	21.33		14.33	
		1752.6	1513	21.43		13.94	
HSUPA	Subtest1	1712.4	1312	20.50	21.5	13.65	14.0
		1732.6	1413	20.65		13.72	
		1752.6	1513	20.86		13.77	
	Subtest2	1712.4	1312	20.96		13.65	
		1732.6	1413	20.66		13.68	
		1752.6	1513	20.95		13.71	
	Subtest3	1712.4	1312	20.78		13.46	
		1732.6	1413	20.93		13.48	
		1752.6	1513	20.87		13.81	
	Subtest4	1712.4	1312	20.71		13.66	
		1732.6	1413	20.74		13.69	
		1752.6	1513	21.23		13.68	
	Subtest5	1712.4	1312	20.83		13.54	
		1732.6	1413	20.66		13.60	
		1752.6	1513	20.91		13.49	
HSPA+	QPSK	1712.4	1312	21.38	21.5	14.14	14.5
		1732.6	1413	21.13		14.23	
		1752.6	1513	21.36		14.09	
	16QAM	1712.4	1312	21.45		14.06	
		1732.6	1413	21.08		14.05	

		1752.6	1513	21.41		14.21	
DC-HSDPA	Subtest1	1712.4	1312	21.92	22.5	14.67	15.0
		1732.6	1413	21.29		14.60	
		1752.6	1513	22.08		14.71	
	Subtest2	1712.4	1312	20.68		14.41	
		1732.6	1413	21.24		14.37	
		1752.6	1513	21.47		14.39	
	Subtest3	1712.4	1312	21.27		14.24	
		1732.6	1413	21.11		14.41	
		1752.6	1513	21.56		14.30	
	Subtest4	1712.4	1312	21.18		13.93	
		1732.6	1413	21.13		14.64	
		1752.6	1513	21.49		14.10	

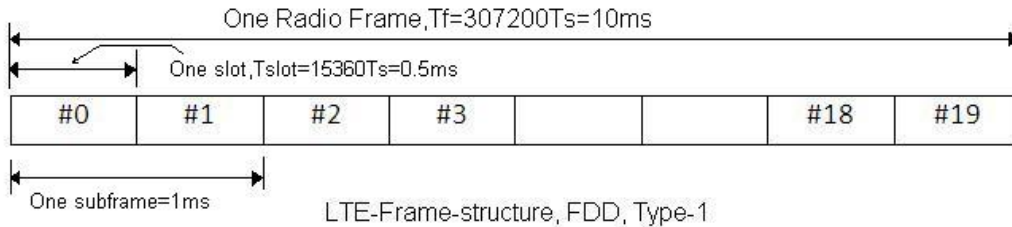
WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)	Tuneup Tolerance (dBm)	Reduced RF Power Output (dBm)	Tuneup Tolerance (dBm)
Release 99	RMC, 12.2kbps	826.4	4132	24.91	25.5	22.52	23.0
		836.6	4183	25.14		22.61	
		846.6	4233	25.10		22.59	
HSDPA	Subtest1	826.4	4132	21.96	22.5	19.64	20.0
		836.6	4183	22.30		19.74	
		846.6	4233	22.08		19.60	
	Subtest2	826.4	4132	21.85		19.67	
		836.6	4183	22.09		19.14	
		846.6	4233	22.13		19.48	
	Subtest3	826.4	4132	21.67		19.09	
		836.6	4183	21.89		19.12	
		846.6	4233	22.12		19.21	
	Subtest4	826.4	4132	21.61		19.03	
		836.6	4183	21.79		19.33	
		846.6	4233	22.04		18.94	
HSUPA	Subtest1	826.4	4132	21.09	22.0	18.65	19.0
		836.6	4183	21.68		18.72	
		846.6	4233	21.67		18.77	
	Subtest2	826.4	4132	20.62		18.65	
		836.6	4183	21.17		18.68	
		846.6	4233	21.14		18.71	
	Subtest3	826.4	4132	20.96		18.46	
		836.6	4183	20.87		18.48	
		846.6	4233	21.23		18.81	
	Subtest4	826.4	4132	21.57		18.66	
		836.6	4183	21.29		18.69	
		846.6	4233	21.16		18.68	
	Subtest5	826.4	4132	21.45		18.54	
		836.6	4183	21.30		18.60	
		846.6	4233	21.32		18.49	
HSPA+	QPSK	826.4	4132	21.73	23.0	19.14	19.5
		836.6	4183	21.91		19.23	
		846.6	4233	22.53		19.09	
	16QAM	826.4	4132	21.80		19.06	
		836.6	4183	21.77		19.05	
		846.6	4233	22.53		19.21	
DC-HSDPA	Subtest1	826.4	4132	22.32	22.5	19.67	20.0
		836.6	4183	22.45		19.60	
		846.6	4233	22.44		19.71	
	Subtest2	826.4	4132	21.88		19.41	
		836.6	4183	21.84		19.37	
		846.6	4233	21.67		19.39	

	Subtest3	826.4	4132	21.20		19.24	
		836.6	4183	21.89		19.41	
		846.6	4233	21.54		19.30	
	Subtest4	826.4	4132	21.87		18.93	
		836.6	4183	22.24		19.64	
		846.6	4233	21.13		19.10	

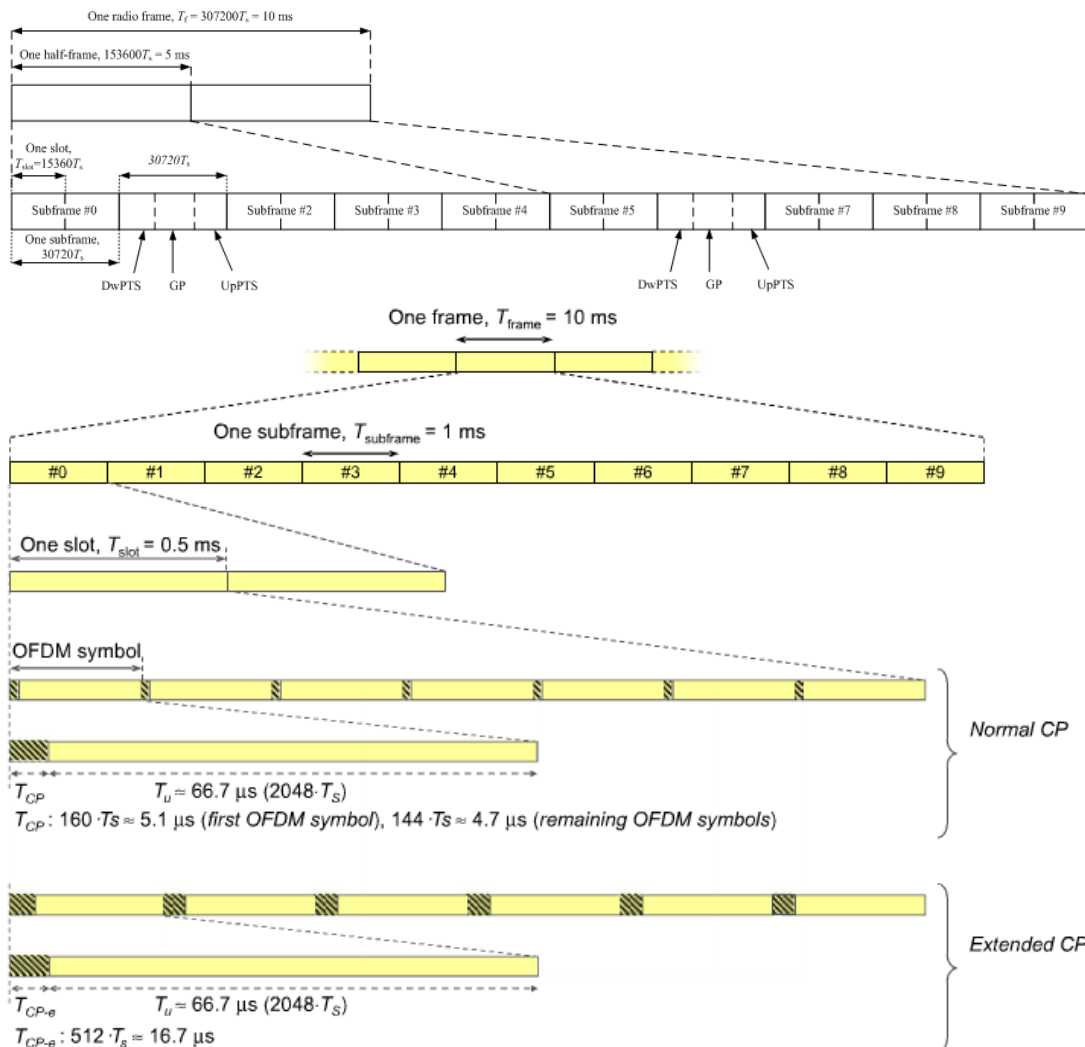
LTE Measurement result

General description: FDD-LTE frame structure



Type 1 is used as LTE FDD frame structure. As shown in the figure above, an LTE TDD frame is made of total 20 slots, each of 0.5ms. Two consecutive time slots will form one subframe. 10 such subframes form one radio frame. One subframe duration is about 1 ms. and the duty cycle is inherent as 100%

TDD-LTE frame structure



Uplink-downlink configuration

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

Special sub-frame configuration

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

Special sub-frame with cyclic prefix uplink

Special sub-frame configuration		Duty factor with normal cyclic prefix in uplink	Duty factor with extended cyclic prefix in uplink
Normal cyclic prefix in downlink	0~4	7.13%	8.33%
	5~9	14.3%	16.7%
Extended cyclic prefix in downlink	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

So we perform SAR test with maximum duty factor equal to 63.3% by using uplink-downlink configuration 0.

Note: One sub-frame is $30720T_s=1\text{ms}$, when Up PTS (uplink) in special sub-frame with extended cyclic prefix, duty factor = $5120/30720=0.167$. There are 5 sub-frames in half frame (3up link), so the final duty factor is $(30720 \cdot 3 + 5120) / (30720 \cdot 5) = 63.3\%$ which we used to evaluate the SAR compliance (worst case)

Note: RB allocation mentioned below is for all Bandwidths, and the Frequency Range are divided to 3 ranges (Low, Mid, High)

**Full Power
Band 2**

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18607	18900	19193	Tune-up Tolerance	MPR (dB)
				1850.7	1880	1909.3		
1.4	QPSK	1	0	23.81	23.67	23.57	24.0	0.5
		1	3	23.80	23.72	23.57	24.0	0.5
		1	5	23.80	23.71	23.56	24.0	0.5
		3	0	22.61	22.58	22.76	23.0	1.5
		3	1	22.59	22.81	22.65	23.0	1.5
		3	3	22.59	22.81	22.76	23.0	1.5
	16QAM	6	0	22.58	22.72	22.79	23.0	1.5
		1	0	22.97	23.40	22.84	23.5	1.0
		1	3	22.99	23.46	22.80	23.5	1.0
		1	5	22.99	23.46	22.72	23.5	1.0
		3	0	22.60	23.17	22.81	23.5	1.0
		3	1	22.73	23.11	22.78	23.5	1.0
		3	3	22.73	23.11	22.78	23.5	1.0
	64QAM	6	0	21.51	21.96	21.68	22.0	2.5
		1	0	21.51	21.96	21.68	22.0	2.5
		1	3	21.51	21.96	21.68	22.0	2.5
		1	5	21.51	21.97	21.68	22.0	2.5
		3	0	21.51	21.97	21.68	22.0	2.5
		3	1	21.51	21.97	21.68	22.0	2.5
		3	3	21.51	21.97	21.68	22.0	2.5
	6	0	21.51	21.97	21.68	22.0	2.5	

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18615	18900	19185	Tune-up Tolerance	MPR (dB)
				1851.5	1880	1908.5		
3	QPSK	1	0	23.44	23.62	23.58	24.0	0.5
		1	8	23.42	23.64	23.60	24.0	0.5
		1	14	23.42	23.64	23.60	24.0	0.5
		8	0	22.57	22.68	22.61	23.0	1.5
		8	4	22.57	22.64	22.63	23.0	1.5
		8	7	22.57	22.64	22.64	23.0	1.5
		15	0	22.57	22.61	22.72	23.0	1.5
	16QAM	1	0	22.83	23.00	22.77	23.0	1.5
		1	8	22.93	23.01	22.83	23.5	1.0
		1	14	22.93	23.01	22.82	23.5	1.0
		8	0	21.64	21.98	21.74	22.0	2.5
		8	4	21.54	21.92	21.78	22.0	2.5
		8	7	21.54	21.92	21.78	22.0	2.5
		15	0	21.51	21.96	21.79	22.0	2.5
	64QAM	1	0	21.51	21.96	21.79	22.0	2.5
		1	8	21.40	21.96	21.79	22.0	2.5
		1	14	21.40	21.96	21.79	22.0	2.5
		8	0	21.40	21.85	21.79	22.0	2.5
		8	4	21.40	21.96	21.79	22.0	2.5
		8	7	21.51	21.96	21.79	22.0	2.5
		15	0	21.51	21.96	21.79	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18625	18900	19175	Tune-up Tolerance	MPR (dB)
				1852.5	1880	1907.5		
5	QPSK	1	0	23.37	23.58	23.59	24.0	0.5
		1	12	23.44	23.71	23.69	24.0	0.5
		1	24	23.22	23.71	23.68	24.0	0.5
		12	0	22.54	22.76	22.75	23.0	1.5
		12	7	22.48	22.75	22.72	23.0	1.5
		12	13	22.52	22.76	22.72	23.0	1.5
		25	0	22.56	22.60	22.72	23.0	1.5
	16QAM	1	0	22.22	22.81	22.62	23.0	1.5
		1	12	22.28	22.88	22.99	23.0	1.5
		1	24	22.24	22.88	22.99	23.0	1.5
		12	0	21.51	21.58	21.78	22.0	2.5
		12	7	21.56	21.66	21.79	22.0	2.5
		12	13	21.44	21.58	21.80	22.0	2.5
		25	0	21.72	21.58	21.85	22.0	2.5
	64QAM	1	0	21.72	21.57	21.85	22.0	2.5
		1	12	21.72	21.58	21.84	22.0	2.5
		1	24	21.72	21.58	21.85	22.0	2.5
		12	0	21.72	21.58	21.84	22.0	2.5
		12	7	21.72	21.58	21.85	22.0	2.5
		12	13	21.72	21.58	21.84	22.0	2.5
		25	0	21.72	21.58	21.85	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18650	18900	19150	Tune-up Tolerance	MPR (dB)
				1855	1880	1905		
10	QPSK	1	0	23.61	23.79	23.75	24.0	0.5
		1	25	23.60	23.91	23.75	24.0	0.5
		1	49	23.60	23.91	23.74	24.0	0.5
		25	0	22.56	22.71	22.56	23.0	1.5
		25	12	22.59	22.84	22.71	23.0	1.5
		25	25	22.59	22.84	22.71	23.0	1.5
		50	0	22.63	22.72	22.71	23.0	1.5
	16QAM	1	0	23.10	22.86	22.73	23.5	1.0
		1	25	23.09	23.12	22.78	23.5	1.0
		1	49	22.82	23.12	22.78	23.5	1.0
		25	0	21.69	21.80	21.93	22.0	2.5
		25	12	21.62	21.80	22.05	22.5	2.0
		25	25	21.63	21.80	22.05	22.5	2.0
		50	0	21.51	21.71	21.55	22.0	2.5
	64QAM	1	0	21.50	21.71	21.55	22.0	2.5
		1	25	21.51	21.71	21.55	22.0	2.5
		1	49	21.51	21.71	21.55	22.0	2.5
		25	0	21.51	21.71	21.55	22.0	2.5
		25	12	21.50	21.71	21.55	22.0	2.5
		25	25	21.50	21.71	21.55	22.0	2.5
		50	0	21.50	21.71	21.55	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18675	18900	19125	Tune-up Tolerance	MPR (dB)
				1857.5	1880	1902.5		
15	QPSK	1	0	23.35	23.78	23.73	24.0	0.5
		1	37	23.68	23.71	23.59	24.0	0.5
		1	74	23.67	23.72	23.59	24.0	0.5
		36	0	22.48	22.68	22.73	23.0	1.5
		36	29	22.55	22.68	22.54	23.0	1.5
		36	30	22.45	22.68	22.54	23.0	1.5
		75	0	22.48	22.71	22.66	23.0	1.5
	16QAM	1	0	22.97	23.30	23.02	23.5	1.0
		1	37	22.94	23.98	22.97	24.0	0.5
		1	74	23.05	23.98	22.97	24.0	0.5
		36	0	21.60	21.68	21.74	22.0	2.5
		36	29	21.57	21.68	21.54	22.0	2.5
		36	30	21.57	21.69	21.54	22.0	2.5
		75	0	21.59	21.74	21.55	22.0	2.5
	64QAM	1	0	21.59	21.74	21.55	22.0	2.5
		1	37	21.59	21.74	21.55	22.0	2.5
		1	74	21.59	21.74	21.55	22.0	2.5
		36	0	21.59	21.74	21.55	22.0	2.5
		36	29	21.59	21.74	21.55	22.0	2.5
		36	30	21.59	21.74	21.64	22.0	2.5
		75	0	21.59	21.75	21.64	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18700	18900	19100	Tune-up Tolerance	MPR (dB)
				1860	1880	1900		
20	QPSK	1	0	23.51	23.75	24.02	24.5	0.0
		1	49	23.76	24.04	23.73	24.5	0.0
		1	99	23.75	24.04	23.72	24.5	0.0
		50	0	23.58	23.61	23.66	24.0	0.5
		50	24	23.56	23.63	23.62	24.0	0.5
		50	50	23.46	23.63	23.62	24.0	0.5
		100	0	22.60	22.75	22.68	23.0	1.5
	16QAM	1	0	22.69	22.80	22.79	23.0	1.5
		1	49	23.30	22.89	23.39	23.5	1.0
		1	99	23.29	22.77	23.38	23.5	1.0
		50	0	21.66	21.55	21.72	22.0	2.5
		50	24	21.66	21.70	21.73	22.0	2.5
		50	50	21.66	21.71	21.72	22.0	2.5
		100	0	21.70	21.75	21.69	22.0	2.5
	64QAM	1	0	21.70	21.75	21.69	22.0	2.5
		1	49	21.70	21.75	21.69	22.0	2.5
		1	99	21.70	21.75	21.69	22.0	2.5
		50	0	21.70	21.75	21.69	22.0	2.5
		50	24	21.70	21.75	21.69	22.0	2.5
		50	50	21.70	21.75	21.69	22.0	2.5
		100	0	21.70	21.75	21.69	22.0	2.5

Band 4

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				19957	20175	20393	Tune-up Tolerance	MPR (dB)
				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	23.51	23.42	23.39	24.0	0.5
		1	3	23.54	23.46	23.35	24.0	0.5
		1	5	23.53	23.46	23.35	24.0	0.5
		3	0	22.39	22.65	22.69	23.0	1.5
		3	1	22.55	22.56	22.58	23.0	1.5
		3	3	22.55	22.57	22.57	23.0	1.5
		6	0	22.43	22.68	22.70	23.0	1.5
	16QAM	1	0	22.90	22.70	22.98	23.0	1.5
		1	3	22.73	22.67	22.72	23.0	1.5
		1	5	22.73	22.67	22.72	23.0	1.5
		3	0	22.57	22.68	22.62	23.0	1.5
		3	1	22.53	22.70	22.61	23.0	1.5
		3	3	22.52	22.70	22.61	23.0	1.5
		6	0	21.82	21.84	21.27	22.0	2.5
	64QAM	1	0	21.68	21.84	21.28	22.0	2.5
		1	3	21.68	21.84	21.28	22.0	2.5
		1	5	21.68	21.84	21.29	22.0	2.5
		3	0	21.82	21.84	21.29	22.0	2.5
		3	1	21.82	21.84	21.29	22.0	2.5
		3	3	21.83	21.84	21.29	22.0	2.5
		6	0	21.82	21.84	21.29	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				19965	20175	20385	Tune-up Tolerance	MPR (dB)
				1711.5	1732.5	1753.5		
3	QPSK	1	0	23.34	23.87	23.53	24.0	0.5
		1	8	23.35	23.71	23.70	24.0	0.5
		1	14	23.23	23.71	23.69	24.0	0.5
		8	0	22.55	22.64	22.58	23.0	1.5
		8	4	22.62	22.71	22.65	23.0	1.5
		8	7	22.62	22.71	22.65	23.0	1.5
		15	0	22.59	22.68	22.67	23.0	1.5
	16QAM	1	0	22.86	22.73	22.53	23.0	1.5
		1	8	22.88	22.84	22.57	23.0	1.5
		1	14	22.87	22.84	22.57	23.0	1.5
		8	0	21.76	21.64	21.52	22.0	2.5
		8	4	21.83	21.80	21.49	22.0	2.5
		8	7	21.83	21.80	21.49	22.0	2.5
		15	0	21.44	21.63	21.74	22.0	2.5
	64QAM	1	0	21.44	21.63	21.74	22.0	2.5
		1	8	21.52	21.63	21.74	22.0	2.5
		1	14	21.52	21.63	21.74	22.0	2.5
		8	0	21.56	21.63	21.74	22.0	2.5
		8	4	21.45	21.63	21.74	22.0	2.5
		8	7	21.45	21.63	21.74	22.0	2.5
		15	0	21.48	21.63	21.74	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				19975	20175	20375	Tune-up Tolerance	MPR (dB)
				1712.5	1732.5	1752.5		
5	QPSK	1	0	23.04	23.38	23.44	23.5	1.0
		1	12	23.34	23.63	23.41	24.0	0.5
		1	24	23.33	23.63	23.41	24.0	0.5
		12	0	22.42	22.65	22.62	23.0	1.5
		12	7	22.37	22.76	22.72	23.0	1.5
		12	13	22.37	22.76	22.72	23.0	1.5
		25	0	22.49	22.70	22.76	23.0	1.5
	16QAM	1	0	22.20	22.83	22.55	23.0	1.5
		1	12	21.99	22.93	22.46	23.0	1.5
		1	24	21.99	22.93	22.46	23.0	1.5
		12	0	21.50	21.54	21.37	22.0	2.5
		12	7	21.46	21.66	21.51	22.0	2.5
		12	13	21.46	21.66	21.51	22.0	2.5
		25	0	21.44	21.55	21.72	22.0	2.5
	64QAM	1	0	21.58	21.55	21.71	22.0	2.5
		1	12	21.58	21.55	21.72	22.0	2.5
		1	24	21.58	21.55	21.72	22.0	2.5
		12	0	21.58	21.55	21.72	22.0	2.5
		12	7	21.58	21.55	21.71	22.0	2.5
		12	13	21.58	21.55	21.72	22.0	2.5
		25	0	21.58	21.55	21.71	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20000	20175	20350	Tune-up Tolerance	MPR (dB)
				1715	1732.5	1750		
10	QPSK	1	0	23.51	23.71	23.75	24.0	0.5
		1	25	23.61	23.63	23.48	24.0	0.5
		1	49	23.41	23.63	23.56	24.0	0.5
		25	0	22.52	22.67	22.55	23.0	1.5
		25	12	22.45	22.64	22.68	23.0	1.5
		25	25	22.44	22.64	22.68	23.0	1.5
		50	0	22.43	22.72	22.55	23.0	1.5
	16QAM	1	0	22.43	23.01	22.75	23.5	1.0
		1	25	22.82	23.75	22.61	24.0	0.5
		1	49	22.87	23.75	22.61	24.0	0.5
		25	0	21.67	21.73	21.54	22.0	2.5
		25	12	21.38	21.72	21.69	22.0	2.5
		25	25	21.37	21.72	21.68	22.0	2.5
		50	0	21.41	21.70	21.59	22.0	2.5
	64QAM	1	0	21.41	21.70	21.59	22.0	2.5
		1	25	21.41	21.71	21.59	22.0	2.5
		1	49	21.41	21.71	21.59	22.0	2.5
		25	0	21.41	21.70	21.59	22.0	2.5
		25	12	21.41	21.71	21.59	22.0	2.5
		25	25	21.41	21.71	21.59	22.0	2.5
		50	0	21.41	21.70	21.59	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20025	20175	20325	Tune-up Tolerance	MPR (dB)
				1717.5	1732.5	1747.5		
15	QPSK	1	0	23.33	23.75	23.39	24.0	0.5
		1	37	23.42	23.86	23.81	24.0	0.5
		1	74	23.41	23.69	23.41	24.0	0.5
		36	0	22.44	22.68	22.56	23.0	1.5
		36	29	22.45	22.52	22.65	23.0	1.5
		36	30	22.45	22.52	22.64	23.0	1.5
		75	0	22.45	22.63	22.54	23.0	1.5
	16QAM	1	0	23.07	23.18	23.00	23.5	1.0
		1	37	23.09	23.63	22.79	24.0	0.5
		1	74	23.09	23.63	22.80	24.0	0.5
		36	0	21.45	21.61	21.39	22.0	2.5
		36	29	21.47	21.48	21.68	22.0	2.5
		36	30	21.58	21.48	21.67	22.0	2.5
		75	0	21.58	21.65	21.65	22.0	2.5
	64QAM	1	0	21.58	21.65	21.65	22.0	2.5
		1	37	21.58	21.65	21.65	22.0	2.5
		1	74	21.58	21.65	21.65	22.0	2.5
		36	0	21.58	21.65	21.65	22.0	2.5
		36	29	21.58	21.65	21.65	22.0	2.5
		36	30	21.58	21.65	21.65	22.0	2.5
		75	0	21.57	21.65	21.65	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20050	20175	20300	Tune-up Tolerance	MPR (dB)
				1720	1732.5	1745		
20	QPSK	1	0	23.28	23.56	23.77	24.0	0.5
		1	49	23.36	23.83	23.99	24.0	0.5
		1	99	23.63	23.93	24.05	24.5	0.0
		50	0	23.34	23.47	23.52	24.0	0.5
		50	24	23.35	23.58	23.81	24.0	0.5
		50	50	23.34	23.58	23.81	24.0	0.5
		100	0	22.51	22.74	22.69	23.0	1.5
	16QAM	1	0	22.67	22.81	23.49	23.5	1.0
		1	49	22.44	22.73	23.76	24.0	0.5
		1	99	22.44	22.73	23.74	24.0	0.5
		50	0	21.44	21.72	21.69	22.0	2.5
		50	24	21.60	21.58	21.56	22.0	2.5
		50	50	21.60	21.59	21.55	22.0	2.5
		100	0	21.49	21.51	21.70	22.0	2.5
	64QAM	1	0	21.58	21.51	21.70	22.0	2.5
		1	49	21.58	21.51	21.71	22.0	2.5
		1	99	21.58	21.51	21.71	22.0	2.5
		50	0	21.58	21.51	21.71	22.0	2.5
		50	24	21.58	21.51	21.71	22.0	2.5
		50	50	21.58	21.51	21.71	22.0	2.5
		100	0	21.58	21.51	21.71	22.0	2.5

Band 5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20407	20525	20643	Tune-up Tolerance	MPR (dB)
				824.7	836.5	848.3		
1.4	QPSK	1	0	23.72	24.97	24.81	25.0	0.5
		1	3	23.76	24.79	25.23	25.5	0.0
		1	5	23.75	24.77	25.23	25.5	0.0
		3	0	23.76	23.91	23.98	24.0	1.5
		3	1	23.97	23.97	24.04	24.5	1.0
		3	3	23.97	23.95	24.05	24.5	1.0
		6	0	24.05	23.93	23.87	24.5	1.0
	16QAM	1	0	24.23	24.09	24.09	24.5	1.0
		1	3	24.16	24.06	24.01	24.5	1.0
		1	5	24.16	24.07	24.01	24.5	1.0
		3	0	23.91	24.09	24.00	24.5	1.0
		3	1	23.83	23.98	23.97	24.0	1.5
		3	3	23.83	23.98	23.97	24.0	1.5
		6	0	22.78	23.27	23.08	23.5	2.0
	64QAM	1	0	22.71	23.28	23.09	23.5	2.0
		1	3	22.71	23.28	22.73	23.5	2.0
		1	5	22.71	23.28	22.74	23.5	2.0
		3	0	22.71	23.28	22.74	23.5	2.0
		3	1	22.71	23.28	22.74	23.5	2.0
		3	3	22.71	23.28	22.74	23.5	2.0
		6	0	22.71	23.28	22.74	23.5	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20415	20525	20635	Tune-up Tolerance	MPR (dB)
				825.5	836.5	847.5		
3	QPSK	1	0	24.02	25.17	25.18	25.5	0.0
		1	8	23.87	25.18	25.04	25.5	0.0
		1	14	23.94	25.17	25.03	25.5	0.0
		8	0	24.06	24.21	24.29	24.5	1.0
		8	4	23.93	24.19	24.16	24.5	1.0
		8	7	23.93	24.18	24.16	24.5	1.0
		15	0	23.83	23.97	24.00	24.0	1.5
	16QAM	1	0	24.50	24.53	24.28	25.0	0.5
		1	8	24.44	24.48	23.99	24.5	1.0
		1	14	24.44	24.47	23.99	24.5	1.0
		8	0	23.35	23.47	23.41	23.5	2.0
		8	4	23.16	23.45	23.38	23.5	2.0
		8	7	23.16	23.45	23.38	23.5	2.0
		15	0	23.00	23.52	23.38	24.0	1.5
	64QAM	1	0	23.00	23.52	23.39	24.0	1.5
		1	8	23.00	23.52	23.39	24.0	1.5
		1	14	23.00	23.52	23.39	24.0	1.5
		8	0	23.00	23.52	23.39	24.0	1.5
		8	4	23.00	23.52	23.38	24.0	1.5
		8	7	23.00	23.52	23.39	24.0	1.5
		15	0	23.00	23.52	23.39	24.0	1.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20425	20525	20625	Tune-up Tolerance	MPR (dB)
				826.5	836.5	846.5		
5	QPSK	1	0	23.49	24.63	24.62	25.0	0.5
		1	12	23.50	24.67	24.57	25.0	0.5
		1	24	23.48	24.65	24.57	25.0	0.5
		12	0	23.75	23.92	24.12	24.5	1.0
		12	7	23.73	23.92	23.99	24.0	1.5
		12	13	23.72	23.91	23.99	24.0	1.5
		25	0	23.72	23.87	23.98	24.0	1.5
	16QAM	1	0	23.43	23.50	24.15	24.5	1.0
		1	12	23.54	23.60	24.11	24.5	1.0
		1	24	23.54	23.65	24.11	24.5	1.0
		12	0	22.64	22.81	22.99	23.0	2.5
		12	7	22.66	22.83	22.96	23.0	2.5
		12	13	22.66	22.83	22.96	23.0	2.5
		25	0	22.73	23.14	23.18	23.5	2.0
	64QAM	1	0	22.73	23.15	23.18	23.5	2.0
		1	12	22.73	23.15	23.18	23.5	2.0
		1	24	22.73	23.15	23.18	23.5	2.0
		12	0	22.73	23.15	23.18	23.5	2.0
		12	7	22.73	23.15	23.18	23.5	2.0
		12	13	22.73	23.15	23.18	23.5	2.0
		25	0	22.73	23.15	23.18	23.5	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20450	20525	20600	Tune-up Tolerance	MPR (dB)
				829	836.5	844		
10	QPSK	1	0	24.02	25.23	24.82	25.5	0.0
		1	25	23.94	25.16	24.87	25.5	0.0
		1	49	23.94	25.16	24.86	25.5	0.0
		25	0	24.03	25.14	24.93	25.5	0.0
		25	12	23.90	25.09	24.82	25.5	0.0
		25	25	23.90	25.09	24.82	25.5	0.0
		50	0	23.98	24.19	24.23	24.5	1.0
	16QAM	1	0	24.33	24.51	23.83	25.0	0.5
		1	25	24.38	24.65	23.87	25.0	0.5
		1	49	24.38	24.42	23.88	24.5	1.0
		25	0	22.89	23.12	23.17	23.5	2.0
		25	12	23.11	22.81	23.30	23.5	2.0
		25	25	23.11	22.81	23.31	23.5	2.0
		50	0	22.91	23.02	22.95	23.5	2.0
	64QAM	1	0	22.91	23.01	22.95	23.5	2.0
		1	25	22.81	23.02	22.95	23.5	2.0
		1	49	22.91	23.01	22.95	23.5	2.0
		25	0	22.81	23.01	22.95	23.5	2.0
		25	12	22.81	23.01	22.95	23.5	2.0
		25	25	22.84	23.01	22.96	23.5	2.0
		50	0	22.81	23.01	22.95	23.5	2.0

Band 7

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20775	21100	21425	Tune-up Tolerance	MPR (dB)
				2502.5	2535	2567.5		
5	QPSK	1	0	23.03	23.47	23.42	23.5	1.0
		1	12	23.09	23.70	23.49	24.0	0.5
		1	24	23.07	23.70	23.49	24.0	0.5
		12	0	22.47	22.81	22.51	23.0	1.5
		12	7	22.52	22.71	22.50	23.0	1.5
		12	13	22.52	22.71	22.50	23.0	1.5
		25	0	22.53	22.72	22.55	23.0	1.5
	16QAM	1	0	22.19	23.00	22.34	23.0	1.5
		1	12	22.19	23.15	22.49	23.5	1.0
		1	24	22.22	23.15	22.49	23.5	1.0
		12	0	21.49	21.73	21.60	22.0	2.5
		12	7	21.56	21.66	21.63	22.0	2.5
		12	13	21.56	21.66	21.63	22.0	2.5
		25	0	21.57	21.61	21.54	22.0	2.5
	64QAM	1	0	21.57	21.62	21.55	22.0	2.5
		1	12	21.57	21.61	21.54	22.0	2.5
		1	24	21.57	21.61	21.54	22.0	2.5
		12	0	21.57	21.61	21.64	22.0	2.5
		12	7	21.57	21.62	21.64	22.0	2.5
		12	13	21.57	21.62	21.54	22.0	2.5
		25	0	21.57	21.62	21.54	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20800	21100	21400	Tune-up Tolerance	MPR (dB)
				2505	2535	2565		
10	QPSK	1	0	23.41	23.84	23.48	24.0	0.5
		1	25	23.56	23.83	23.84	24.0	0.5
		1	49	23.55	23.83	23.84	24.0	0.5
		25	0	22.48	22.81	22.59	23.0	1.5
		25	12	22.51	22.83	22.52	23.0	1.5
		25	25	22.51	22.83	22.53	23.0	1.5
		50	0	22.65	22.79	22.62	23.0	1.5
	16QAM	1	0	22.99	23.67	22.56	24.0	0.5
		1	25	23.07	23.84	22.86	24.0	0.5
		1	49	23.07	23.84	22.78	24.0	0.5
		25	0	21.69	21.96	21.77	22.0	2.5
		25	12	21.54	21.79	21.70	22.0	2.5
		25	25	21.54	21.98	21.91	22.0	2.5
		50	0	21.59	21.87	21.58	22.0	2.5
	64QAM	1	0	21.59	21.87	21.58	22.0	2.5
		1	25	21.59	21.87	21.58	22.0	2.5
		1	49	21.59	21.87	21.58	22.0	2.5
		25	0	21.59	21.87	21.58	22.0	2.5
		25	12	21.59	21.87	21.58	22.0	2.5
		25	25	21.59	21.87	21.58	22.0	2.5
		50	0	21.59	21.87	21.58	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20825	21100	21375	Tune-up Tolerance	MPR (dB)
				2507.5	2535	2562.5		
15	QPSK	1	0	23.32	23.29	23.43	23.5	1.0
		1	37	23.31	23.84	23.80	24.0	0.5
		1	74	23.31	23.66	23.84	24.0	0.5
		36	0	22.78	22.96	22.48	23.0	1.5
		36	29	22.70	22.72	22.62	23.0	1.5
		36	30	22.58	22.72	22.63	23.0	1.5
		75	0	22.64	22.69	22.56	23.0	1.5
	16QAM	1	0	23.01	23.57	22.65	24.0	0.5
		1	37	23.01	23.30	22.87	23.5	1.0
		1	74	22.93	23.34	22.88	23.5	1.0
		36	0	21.54	21.75	21.45	22.0	2.5
		36	29	21.58	21.99	21.36	22.0	2.5
		36	30	21.58	21.99	21.46	22.0	2.5
		75	0	21.52	21.71	21.61	22.0	2.5
	64QAM	1	0	21.53	21.71	21.61	22.0	2.5
		1	37	21.53	21.71	21.61	22.0	2.5
		1	74	21.52	21.72	21.61	22.0	2.5
		36	0	21.53	21.72	21.60	22.0	2.5
		36	29	21.52	21.71	21.61	22.0	2.5
		36	30	21.52	21.71	21.61	22.0	2.5
		75	0	21.52	21.71	21.60	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20850	21100	21350	Tune-up Tolerance	MPR (dB)
				2510	2535	2560		
20	QPSK	1	0	23.54	24.17	23.54	24.5	0.0
		1	49	23.43	23.82	23.30	24.0	0.5
		1	99	23.43	23.82	23.29	24.0	0.5
		50	0	22.58	22.96	22.59	23.0	1.5
		50	24	22.71	22.81	22.64	23.0	1.5
		50	50	22.71	22.82	22.64	23.0	1.5
		100	0	22.66	22.92	22.69	23.0	1.5
	16QAM	1	0	21.90	22.54	22.18	23.0	1.5
		1	49	22.80	22.88	22.95	23.0	1.5
		1	99	22.80	22.79	22.95	23.0	1.5
		50	0	21.52	21.76	21.55	22.0	2.5
		50	24	21.56	21.72	21.45	22.0	2.5
		50	50	21.56	21.72	21.45	22.0	2.5
		100	0	21.54	21.82	21.77	22.0	2.5
	64QAM	1	0	21.54	21.85	21.76	22.0	2.5
		1	49	21.54	21.91	21.76	22.0	2.5
		1	99	21.54	21.91	21.76	22.0	2.5
		50	0	21.54	21.91	21.76	22.0	2.5
		50	24	21.54	21.91	21.76	22.0	2.5
		50	50	21.54	21.91	21.76	22.0	2.5
		100	0	21.54	21.91	21.76	22.0	2.5

Band 12

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23017	23095	23173	Tune-up Tolerance	MPR (dB)
				699.7	707.5	715.3		
1.4	QPSK	1	0	23.66	25.13	25.31	25.5	0.0
		1	3	23.60	25.12	25.27	25.5	0.0
		1	5	23.56	25.12	25.25	25.5	0.0
		3	0	24.06	24.11	24.22	24.5	1.0
		3	1	24.12	24.15	24.09	24.5	1.0
		3	3	24.13	24.15	24.18	24.5	1.0
		6	0	23.37	24.16	23.99	24.5	1.0
	16QAM	1	0	23.54	24.23	24.43	24.5	1.0
		1	3	23.47	24.26	24.20	24.5	1.0
		1	5	23.46	24.26	24.19	24.5	1.0
		3	0	24.21	24.24	24.14	24.5	1.0
		3	1	24.20	24.14	24.14	24.5	1.0
		3	3	24.20	24.14	24.13	24.5	1.0
		6	0	22.96	23.57	22.89	24.0	1.5
	64QAM	1	0	22.96	23.57	22.83	24.0	1.5
		1	3	22.97	23.57	22.83	24.0	1.5
		1	5	22.96	23.57	22.83	24.0	1.5
		3	0	22.96	23.57	22.84	24.0	1.5
		3	1	22.96	23.57	22.84	24.0	1.5
		3	3	22.96	23.57	22.84	24.0	1.5
		6	0	22.96	23.57	22.84	24.0	1.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23025	23095	23165	Tune-up Tolerance	MPR (dB)
				700.5	707.5	714.5		
3	QPSK	1	0	24.10	24.89	25.11	25.5	0.0
		1	8	23.92	25.17	25.09	25.5	0.0
		1	14	23.82	25.17	25.07	25.5	0.0
		8	0	24.04	24.17	24.12	24.5	1.0
		8	4	24.06	24.17	24.05	24.5	1.0
		8	7	24.06	24.17	24.05	24.5	1.0
		15	0	24.09	24.17	24.13	24.5	1.0
	16QAM	1	0	24.43	24.46	24.25	24.5	1.0
		1	8	24.38	24.80	24.01	25.0	0.5
		1	14	24.39	24.79	24.00	25.0	0.5
		8	0	23.11	23.43	23.09	23.5	2.0
		8	4	22.87	23.44	22.97	23.5	2.0
		8	7	22.88	23.44	22.97	23.5	2.0
		15	0	23.06	23.49	23.15	23.5	2.0
	64QAM	1	0	23.06	23.49	23.15	23.5	2.0
		1	8	23.06	23.49	23.15	23.5	2.0
		1	14	23.06	23.49	23.16	23.5	2.0
		8	0	23.06	23.49	23.15	23.5	2.0
		8	4	23.06	23.49	23.16	23.5	2.0
		8	7	23.06	23.49	23.15	23.5	2.0
		15	0	23.06	23.49	23.16	23.5	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23035	23095	23155	Tune-up Tolerance	MPR (dB)
				701.5	707.5	713.5		
5	QPSK	1	0	24.07	24.89	25.13	25.5	0.0
		1	12	24.09	24.89	24.98	25.0	0.5
		1	24	24.09	24.88	24.97	25.0	0.5
		12	0	24.02	24.17	24.12	24.5	1.0
		12	7	24.00	24.18	23.97	24.5	1.0
		12	13	24.00	24.18	23.97	24.5	1.0
		25	0	24.01	24.09	24.20	24.5	1.0
	16QAM	1	0	23.97	24.24	24.02	24.5	1.0
		1	12	23.52	24.36	23.71	24.5	1.0
		1	24	23.52	24.36	23.70	24.5	1.0
		12	0	23.10	23.12	23.10	23.5	2.0
		12	7	23.08	23.15	22.99	23.5	2.0
		12	13	23.08	23.16	22.99	23.5	2.0
		25	0	23.23	23.10	23.31	23.5	2.0
	64QAM	1	0	23.23	23.10	23.31	23.5	2.0
		1	12	23.23	23.10	23.31	23.5	2.0
		1	24	23.23	23.10	23.31	23.5	2.0
		12	0	23.23	23.10	23.31	23.5	2.0
		12	7	23.23	23.11	23.31	23.5	2.0
		12	13	23.23	23.11	23.31	23.5	2.0
		25	0	23.23	23.10	23.31	23.5	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23060	23095	23130	Tune-up Tolerance	MPR (dB)
				704	707.5	711		
10	QPSK	1	0	24.01	25.30	25.03	25.5	0.0
		1	25	24.09	25.31	25.22	25.5	0.0
		1	49	24.10	25.30	25.33	25.5	0.0
		25	0	23.51	25.07	25.30	25.5	0.0
		25	12	23.34	25.28	25.27	25.5	0.0
		25	25	23.33	25.36	25.26	25.5	0.0
		50	0	23.97	24.18	24.14	24.5	1.0
	16QAM	1	0	24.33	24.40	24.21	24.5	1.0
		1	25	24.51	24.75	23.95	25.0	0.5
		1	49	24.51	24.75	24.00	25.0	0.5
		25	0	22.99	23.30	23.32	23.5	2.0
		25	12	23.16	23.33	23.30	23.5	2.0
		25	25	23.16	23.33	23.30	23.5	2.0
		50	0	23.09	23.19	23.26	23.5	2.0
	64QAM	1	0	23.08	23.20	23.26	23.5	2.0
		1	25	23.08	23.19	23.26	23.5	2.0
		1	49	23.08	23.20	23.26	23.5	2.0
		25	0	23.08	23.20	23.26	23.5	2.0
		25	12	23.08	23.19	23.27	23.5	2.0
		25	25	23.08	23.19	23.26	23.5	2.0
		50	0	23.08	23.19	23.27	23.5	2.0

Band 13

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23205	23230	23255	Tune-up Tolerance	MPR (dB)
				779.5	782	784.5		
5	QPSK	1	0	23.77	24.02	24.81	25.0	0.5
		1	12	23.78	24.03	24.80	25.0	0.5
		1	24	23.77	24.02	24.79	25.0	0.5
		12	0	24.04	24.02	24.04	24.5	1.0
		12	7	24.05	24.04	24.07	24.5	1.0
		12	13	24.05	24.04	24.06	24.5	1.0
		25	0	24.04	24.00	24.04	24.5	1.0
	16QAM	1	0	23.79	24.38	24.21	24.5	1.0
		1	12	23.94	24.52	24.13	25.0	0.5
		1	24	23.94	24.52	24.12	25.0	0.5
		12	0	23.18	23.06	23.15	23.5	2.0
		12	7	23.10	23.08	23.22	23.5	2.0
		12	13	23.11	23.08	23.22	23.5	2.0
		25	0	23.28	23.08	23.17	23.5	2.0
	64QAM	1	0	23.28	23.08	23.17	23.5	2.0
		1	12	23.28	23.08	23.17	23.5	2.0
		1	24	23.28	23.08	23.17	23.5	2.0
		12	0	23.28	23.09	23.17	23.5	2.0
		12	7	23.28	23.08	23.17	23.5	2.0
		12	13	23.28	23.08	23.17	23.5	2.0
		25	0	23.28	23.08	23.17	23.5	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				23230	Tune-up Tolerance	MPR (dB)
				782		
10	QPSK	1	0	24.96	25.0	0.5
		1	25	25.15	25.5	0.0
		1	49	25.15	25.5	0.0
		25	0	24.05	24.5	1.0
		25	12	24.08	24.5	1.0
		25	25	24.08	24.5	1.0
		50	0	24.07	24.5	1.0
	16QAM	1	0	24.40	24.5	1.0
		1	25	24.44	24.5	1.0
		1	49	24.44	24.5	1.0
		25	0	23.08	23.5	2.0
		25	12	23.03	23.5	2.0
		25	25	23.03	23.5	2.0
		50	0	23.06	23.5	2.0
	64QAM	1	0	23.06	23.5	2.0
		1	25	23.06	23.5	2.0
		1	49	23.06	23.5	2.0
		25	0	23.06	23.5	2.0
		25	12	23.06	23.5	2.0
		25	25	23.06	23.5	2.0
		50	0	23.06	23.5	2.0

Band 66

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				131979	132422	132665	Tune-up Tolerance	MPR (dB)
				1710.7	1755	1779.3		
1.4	QPSK	1	0	23.73	23.81	23.58	24.0	0.5
		1	3	23.69	23.93	23.69	24.0	0.5
		1	5	23.77	24.00	23.67	24.0	0.5
		3	0	22.53	22.76	22.53	23.0	1.5
		3	1	22.70	22.76	22.86	23.0	1.5
		3	3	22.70	22.76	22.85	23.0	1.5
		6	0	22.62	22.72	22.72	23.0	1.5
	16QAM	1	0	22.83	22.92	22.67	23.0	1.5
		1	3	22.87	23.01	22.78	23.5	1.0
		1	5	22.87	23.01	22.78	23.5	1.0
		3	0	22.75	22.84	23.02	23.5	1.0
		3	1	22.80	22.96	23.04	23.5	1.0
		3	3	22.80	22.96	23.04	23.5	1.0
		6	0	21.88	21.96	21.74	22.0	2.5
	64QAM	1	0	21.88	21.85	21.75	22.0	2.5
		1	3	21.87	21.97	21.75	22.0	2.5
		1	5	21.88	21.85	21.75	22.0	2.5
		3	0	21.87	21.85	21.75	22.0	2.5
		3	1	21.87	21.96	21.74	22.0	2.5
		3	3	21.87	21.96	21.75	22.0	2.5
		6	0	21.87	21.85	21.74	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				131987	132422	132657	Tune-up Tolerance	MPR (dB)
				1711.5	1755	1778.5		
3	QPSK	1	0	23.42	23.65	23.80	24.0	0.5
		1	8	23.37	23.77	23.77	24.0	0.5
		1	14	23.35	23.75	23.75	24.0	0.5
		8	0	22.68	22.83	22.83	23.0	1.5
		8	4	22.64	22.90	22.83	23.0	1.5
		8	7	22.63	22.90	22.82	23.0	1.5
		15	0	22.68	22.70	22.78	23.0	1.5
	16QAM	1	0	22.49	23.19	22.97	23.5	1.0
		1	8	22.40	23.16	23.04	23.5	1.0
		1	14	22.39	23.16	23.03	23.5	1.0
		8	0	21.54	21.95	21.76	22.0	2.5
		8	4	21.49	22.04	21.78	22.5	2.0
		8	7	21.49	22.04	21.78	22.5	2.0
		15	0	21.68	22.10	21.92	22.5	2.0
	64QAM	1	0	21.55	22.10	21.82	22.5	2.0
		1	8	21.68	22.10	21.92	22.5	2.0
		1	14	21.68	22.10	21.91	22.5	2.0
		8	0	21.68	22.10	21.82	22.5	2.0
		8	4	21.55	22.10	21.91	22.5	2.0
		8	7	21.55	22.09	21.91	22.5	2.0
		15	0	21.55	22.09	21.91	22.5	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				131997	132422	132647	Tune-up Tolerance	MPR (dB)
				1712.5	1755	1777.5		
5	QPSK	1	0	23.37	23.20	23.41	23.5	1.0
		1	12	23.22	23.39	23.43	23.5	1.0
		1	24	23.30	23.37	23.41	23.5	1.0
		12	0	22.65	22.80	22.75	23.0	1.5
		12	7	22.57	22.87	22.73	23.0	1.5
		12	13	22.56	22.87	22.73	23.0	1.5
		25	0	22.49	22.87	22.77	23.0	1.5
	16QAM	1	0	22.23	23.09	22.47	23.5	1.0
		1	12	22.13	23.26	22.48	23.5	1.0
		1	24	22.24	23.26	22.47	23.5	1.0
		12	0	21.63	21.71	21.40	22.0	2.5
		12	7	21.57	21.69	21.42	22.0	2.5
		12	13	21.58	21.69	21.42	22.0	2.5
		25	0	21.57	21.84	21.81	22.0	2.5
	64QAM	1	0	21.57	21.84	21.80	22.0	2.5
		1	12	21.57	21.84	21.80	22.0	2.5
		1	24	21.57	21.84	21.80	22.0	2.5
		12	0	21.56	21.84	21.80	22.0	2.5
		12	7	21.57	21.84	21.80	22.0	2.5
		12	13	21.56	21.84	21.80	22.0	2.5
		25	0	21.56	21.84	21.80	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				132022	132422	132622	Tune-up Tolerance	MPR (dB)
				1715	1755	1775		
10	QPSK	1	0	23.92	23.37	23.45	24.0	0.5
		1	25	23.63	23.68	23.53	24.0	0.5
		1	49	23.60	23.74	23.50	24.0	0.5
		25	0	22.50	22.52	22.70	23.0	1.5
		25	12	22.52	22.77	22.80	23.0	1.5
		25	25	22.51	22.87	22.79	23.0	1.5
		50	0	22.50	22.77	22.79	23.0	1.5
	16QAM	1	0	23.06	22.93	22.66	23.5	1.0
		1	25	22.59	23.82	23.13	24.0	0.5
		1	49	22.59	23.80	23.11	24.0	0.5
		25	0	21.73	21.59	21.94	22.0	2.5
		25	12	21.45	21.64	21.96	22.0	2.5
		25	25	21.45	21.64	21.95	22.0	2.5
		50	0	21.46	21.74	21.61	22.0	2.5
	64QAM	1	0	21.46	21.74	21.61	22.0	2.5
		1	25	21.46	21.74	21.61	22.0	2.5
		1	49	21.46	21.74	21.61	22.0	2.5
		25	0	21.46	21.74	21.61	22.0	2.5
		25	12	21.46	21.74	21.70	22.0	2.5
		25	25	21.45	21.74	21.70	22.0	2.5
		50	0	21.45	21.74	21.70	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				132047	132422	132597	Tune-up Tolerance	MPR (dB)
				1717.5	1755	1772.5		
15	QPSK	1	0	23.64	23.29	23.52	24.0	0.5
		1	37	23.38	23.59	23.73	24.0	0.5
		1	74	23.47	23.57	23.79	24.0	0.5
		36	0	22.59	22.51	22.68	23.0	1.5
		36	29	22.67	22.88	22.78	23.0	1.5
		36	30	22.67	22.87	22.78	23.0	1.5
		75	0	22.55	22.71	22.78	23.0	1.5
	16QAM	1	0	23.12	22.66	22.93	23.5	1.0
		1	37	22.67	22.52	22.90	23.0	1.5
		1	74	22.80	22.51	22.90	23.0	1.5
		36	0	21.69	21.66	21.43	22.0	2.5
		36	29	21.58	21.62	21.83	22.0	2.5
		36	30	21.49	21.71	21.84	22.0	2.5
		75	0	21.58	21.75	21.83	22.0	2.5
	64QAM	1	0	21.57	21.86	21.83	22.0	2.5
		1	37	21.58	21.86	21.83	22.0	2.5
		1	74	21.58	21.75	21.83	22.0	2.5
		36	0	21.57	21.86	21.83	22.0	2.5
		36	29	21.57	21.86	21.83	22.0	2.5
		36	30	21.57	21.86	21.83	22.0	2.5
		75	0	21.57	21.85	21.83	22.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				132072	132422	132572	Tune-up Tolerance	MPR (dB)
				1720	1755	1770		
20	QPSK	1	0	23.42	23.30	24.15	24.5	0.0
		1	49	23.47	24.00	23.60	24.0	0.5
		1	99	23.46	24.06	23.58	24.5	0.0
		50	0	23.60	23.67	23.72	24.0	0.5
		50	24	23.59	23.75	23.73	24.0	0.5
		50	50	23.58	23.74	23.72	24.0	0.5
		100	0	22.59	22.75	22.80	23.0	1.5
	16QAM	1	0	23.49	23.43	23.72	24.0	0.5
		1	49	23.42	23.41	23.64	24.0	0.5
		1	99	23.52	24.31	23.64	24.5	0.0
		50	0	21.53	21.56	21.59	22.0	2.5
		50	24	21.73	21.71	21.73	22.0	2.5
		50	50	21.73	21.70	21.73	22.0	2.5
		100	0	21.66	21.88	21.69	22.0	2.5
	64QAM	1	0	21.66	21.88	21.68	22.0	2.5
		1	49	21.66	21.88	21.68	22.0	2.5
		1	99	21.66	21.88	21.68	22.0	2.5
		50	0	21.66	21.88	21.68	22.0	2.5
		50	24	21.66	21.88	21.68	22.0	2.5
		50	50	21.66	21.88	21.68	22.0	2.5
		100	0	21.65	21.88	21.68	22.0	2.5

Band 71

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				133147	133297	133447	Tune-up Tolerance	MPR (dB)
				665.5	680.5	695.5		
5	QPSK	1	0	22.42	24.06	24.03	24.5	0.5
		1	12	24.17	24.21	23.96	24.5	0.5
		1	24	24.15	24.17	23.94	24.5	0.5
		12	0	23.15	23.38	23.28	23.5	1.5
		12	7	23.25	23.34	23.29	23.5	1.5
		12	13	23.25	23.33	23.28	23.5	1.5
		25	0	23.31	23.40	23.31	23.5	1.5
	16QAM	1	0	21.33	22.99	22.91	23.0	2.0
		1	12	23.20	23.03	22.87	23.5	1.5
		1	24	23.01	23.00	22.86	23.5	1.5
		12	0	22.22	22.46	22.12	22.5	2.5
		12	7	22.31	22.41	22.08	22.5	2.5
		12	13	22.31	22.41	22.09	22.5	2.5
		25	0	22.17	22.38	22.18	22.5	2.5
	64QAM	1	0	22.27	22.38	22.18	22.5	2.5
		1	12	22.27	22.38	22.18	22.5	2.5
		1	24	22.27	22.38	22.18	22.5	2.5
		12	0	22.27	22.38	22.18	22.5	2.5
		12	7	22.27	22.38	22.18	22.5	2.5
		12	13	22.27	22.37	22.18	22.5	2.5
		25	0	22.27	22.37	22.18	22.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				133172	133297	133422	Tune-up Tolerance	MPR (dB)
				668	680.5	693		
10	QPSK	1	0	22.43	24.16	24.24	24.5	0.5
		1	25	24.47	24.22	24.27	24.5	0.5
		1	49	24.45	24.20	24.33	24.5	0.5
		25	0	23.27	23.38	23.39	23.5	1.5
		25	12	23.43	23.42	23.40	23.5	1.5
		25	25	23.33	23.41	23.39	23.5	1.5
		50	0	23.32	23.43	23.33	23.5	1.5
	16QAM	1	0	21.46	23.58	23.36	24.0	1.0
		1	25	23.59	24.04	23.58	24.5	0.5
		1	49	23.60	24.04	23.68	24.5	0.5
		25	0	22.51	22.57	22.55	23.0	2.0
		25	12	22.59	22.60	22.47	23.0	2.0
		25	25	22.60	22.60	22.47	23.0	2.0
		50	0	22.26	22.36	22.36	22.5	2.5
	64QAM	1	0	22.26	22.36	22.36	22.5	2.5
		1	25	22.26	22.36	22.36	22.5	2.5
		1	49	22.26	22.36	22.36	22.5	2.5
		25	0	22.25	22.36	22.36	22.5	2.5
		25	12	22.25	22.46	22.36	22.5	2.5
		25	25	22.26	22.36	22.36	22.5	2.5
		50	0	22.25	22.35	22.36	22.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				133197	133297	133397	Tune-up Tolerance	MPR (dB)
				670.5	680.5	690.5		
15	QPSK	1	0	22.35	24.04	24.14	24.5	0.5
		1	37	24.19	24.28	24.15	24.5	0.5
		1	74	24.17	24.25	24.12	24.5	0.5
		36	0	23.31	23.39	23.35	23.5	1.5
		36	29	23.26	23.31	23.32	23.5	1.5
		36	30	23.36	23.42	23.31	23.5	1.5
		75	0	23.20	23.38	23.43	23.5	1.5
	16QAM	1	0	21.78	23.37	23.54	24.0	1.0
		1	37	23.69	23.84	23.66	24.0	1.0
		1	74	23.69	23.83	23.46	24.0	1.0
		36	0	22.45	22.37	22.32	22.5	2.5
		36	29	22.51	22.60	22.29	23.0	2.0
		36	30	22.51	22.50	22.29	23.0	2.0
		75	0	22.18	22.50	22.50	22.5	2.5
	64QAM	1	0	22.17	22.43	22.49	22.5	2.5
		1	37	22.27	22.43	22.49	22.5	2.5
		1	74	22.27	22.43	22.49	22.5	2.5
		36	0	22.17	22.43	22.49	22.5	2.5
		36	29	22.37	22.43	22.49	22.5	2.5
		36	30	22.37	22.42	22.49	22.5	2.5
		75	0	22.37	22.42	22.49	22.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				133222	133322	133372	Tune-up Tolerance	MPR (dB)
				673	683	688		
20	QPSK	1	0	22.10	24.15	23.94	24.5	0.5
		1	49	24.05	24.62	24.27	25.0	0.0
		1	99	24.03	24.59	23.98	25.0	0.0
		50	0	23.32	23.41	23.40	23.5	1.5
		50	24	23.36	23.33	23.45	23.5	1.5
		50	50	23.35	23.33	23.44	23.5	1.5
		100	0	23.34	23.41	23.31	23.5	1.5
	16QAM	1	0	21.63	23.25	23.44	23.5	1.5
		1	49	23.68	23.44	24.56	25.0	0.0
		1	99	23.67	23.33	24.17	24.5	0.5
		50	0	22.19	22.29	22.25	22.5	2.5
		50	24	22.25	22.40	22.33	22.5	2.5
		50	50	22.25	22.40	22.33	22.5	2.5
		100	0	22.24	22.24	22.32	22.5	2.5
	64QAM	1	0	22.24	22.24	22.40	22.5	2.5
		1	49	22.24	22.24	22.32	22.5	2.5
		1	99	22.24	22.24	22.32	22.5	2.5
		50	0	22.24	22.24	22.32	22.5	2.5
		50	24	22.23	22.24	22.32	22.5	2.5
		50	50	22.23	22.24	22.31	22.5	2.5
		100	0	22.23	22.24	22.32	22.5	2.5

**Reduced Power
Band 2**

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18607	18900	19193	Tune-up Tolerance	MPR (dB)
				1850.7	1880	1909.3		
1.4	QPSK	1	0	15.31	15.17	15.07	15.5	0.5
		1	3	15.30	15.22	15.07	15.5	0.5
		1	5	15.30	15.21	15.06	15.5	0.5
		3	0	14.11	14.08	14.26	14.5	1.5
		3	1	14.09	14.31	14.15	14.5	1.5
		3	3	14.09	14.31	14.26	14.5	1.5
		6	0	14.08	14.22	14.29	14.5	1.5
	16QAM	1	0	14.47	14.90	14.34	15.0	1.0
		1	3	14.49	14.96	14.30	15.0	1.0
		1	5	14.49	14.96	14.22	15.0	1.0
		3	0	14.10	14.67	14.31	15.0	1.0
		3	1	14.23	14.61	14.28	15.0	1.0
		3	3	14.23	14.61	14.28	15.0	1.0
		6	0	13.01	13.46	13.18	13.5	2.5
	64QAM	1	0	13.01	13.46	13.18	13.5	2.5
		1	3	13.01	13.46	13.18	13.5	2.5
		1	5	13.01	13.47	13.18	13.5	2.5
		3	0	13.01	13.47	13.18	13.5	2.5
		3	1	13.01	13.47	13.18	13.5	2.5
		3	3	13.01	13.47	13.18	13.5	2.5
		6	0	13.01	13.47	13.18	13.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18615	18900	19185	Tune-up Tolerance	MPR (dB)
				1851.5	1880	1908.5		
3	QPSK	1	0	14.94	15.12	15.08	15.5	0.5
		1	8	14.92	15.14	15.10	15.5	0.5
		1	14	14.92	15.14	15.10	15.5	0.5
		8	0	14.07	14.18	14.11	14.5	1.5
		8	4	14.07	14.14	14.13	14.5	1.5
		8	7	14.07	14.14	14.14	14.5	1.5
		15	0	14.07	14.11	14.22	14.5	1.5
	16QAM	1	0	14.33	14.50	14.27	14.5	1.5
		1	8	14.43	14.51	14.33	15.0	1.0
		1	14	14.43	14.51	14.32	15.0	1.0
		8	0	13.14	13.48	13.24	13.5	2.5
		8	4	13.04	13.42	13.28	13.5	2.5
		8	7	13.04	13.42	13.28	13.5	2.5
		15	0	13.01	13.46	13.29	13.5	2.5
	64QAM	1	0	13.01	13.46	13.29	13.5	2.5
		1	8	12.90	13.46	13.29	13.5	2.5
		1	14	12.90	13.46	13.29	13.5	2.5
		8	0	12.90	13.35	13.29	13.5	2.5
		8	4	12.90	13.46	13.29	13.5	2.5
		8	7	13.01	13.46	13.29	13.5	2.5
		15	0	13.01	13.46	13.29	13.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18625	18900	19175	Tune-up Tolerance	MPR (dB)
				1852.5	1880	1907.5		
5	QPSK	1	0	14.87	15.08	15.09	15.5	0.5
		1	12	14.94	15.21	15.19	15.5	0.5
		1	24	14.72	15.21	15.18	15.5	0.5
		12	0	14.04	14.26	14.25	14.5	1.5
		12	7	13.98	14.25	14.22	14.5	1.5
		12	13	14.02	14.26	14.22	14.5	1.5
		25	0	14.06	14.10	14.22	14.5	1.5
	16QAM	1	0	13.72	14.31	14.12	14.5	1.5
		1	12	13.78	14.38	14.49	14.5	1.5
		1	24	13.74	14.38	14.49	14.5	1.5
		12	0	13.01	13.08	13.28	13.5	2.5
		12	7	13.06	13.16	13.29	13.5	2.5
		12	13	12.94	13.08	13.30	13.5	2.5
		25	0	13.22	13.08	13.35	13.5	2.5
	64QAM	1	0	13.22	13.07	13.35	13.5	2.5
		1	12	13.22	13.08	13.34	13.5	2.5
		1	24	13.22	13.08	13.35	13.5	2.5
		12	0	13.22	13.08	13.34	13.5	2.5
		12	7	13.22	13.08	13.35	13.5	2.5
		12	13	13.22	13.08	13.34	13.5	2.5
		25	0	13.22	13.08	13.35	13.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18650	18900	19150	Tune-up Tolerance	MPR (dB)
				1855	1880	1905		
10	QPSK	1	0	15.11	15.29	15.25	15.5	0.5
		1	25	15.10	15.41	15.25	15.5	0.5
		1	49	15.10	15.41	15.24	15.5	0.5
		25	0	14.06	14.21	14.06	14.5	1.5
		25	12	14.09	14.34	14.21	14.5	1.5
		25	25	14.09	14.34	14.21	14.5	1.5
		50	0	14.13	14.22	14.21	14.5	1.5
	16QAM	1	0	14.60	14.36	14.23	15.0	1.0
		1	25	14.59	14.62	14.28	15.0	1.0
		1	49	14.32	14.62	14.28	15.0	1.0
		25	0	13.19	13.30	13.43	13.5	2.5
		25	12	13.12	13.30	13.55	14.0	2.0
		25	25	13.13	13.30	13.55	14.0	2.0
		50	0	13.01	13.21	13.05	13.5	2.5
	64QAM	1	0	13.00	13.21	13.05	13.5	2.5
		1	25	13.01	13.21	13.05	13.5	2.5
		1	49	13.01	13.21	13.05	13.5	2.5
		25	0	13.01	13.21	13.05	13.5	2.5
		25	12	13.00	13.21	13.05	13.5	2.5
		25	25	13.00	13.21	13.05	13.5	2.5
		50	0	13.00	13.21	13.05	13.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18675	18900	19125	Tune-up Tolerance	MPR (dB)
				1857.5	1880	1902.5		
15	QPSK	1	0	14.85	15.28	15.23	15.5	0.5
		1	37	15.18	15.21	15.09	15.5	0.5
		1	74	15.17	15.22	15.09	15.5	0.5
		36	0	13.98	14.18	14.23	14.5	1.5
		36	29	14.05	14.18	14.04	14.5	1.5
		36	30	13.95	14.18	14.04	14.5	1.5
		75	0	13.98	14.21	14.16	14.5	1.5
	16QAM	1	0	14.47	14.80	14.52	15.0	1.0
		1	37	14.44	15.48	14.47	15.5	0.5
		1	74	14.55	15.48	14.47	15.5	0.5
		36	0	13.10	13.18	13.24	13.5	2.5
		36	29	13.07	13.18	13.04	13.5	2.5
		36	30	13.07	13.19	13.04	13.5	2.5
		75	0	13.09	13.24	13.05	13.5	2.5
	64QAM	1	0	13.09	13.24	13.05	13.5	2.5
		1	37	13.09	13.24	13.05	13.5	2.5
		1	74	13.09	13.24	13.05	13.5	2.5
		36	0	13.09	13.24	13.05	13.5	2.5
		36	29	13.09	13.24	13.05	13.5	2.5
		36	30	13.09	13.24	13.14	13.5	2.5
		75	0	13.09	13.25	13.14	13.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				18700	18900	19100	Tune-up Tolerance	MPR (dB)
				1860	1880	1900		
20	QPSK	1	0	15.01	15.25	15.52	16.0	0.0
		1	49	15.26	15.54	15.23	16.0	0.0
		1	99	15.25	15.54	15.22	16.0	0.0
		50	0	15.08	15.11	15.16	15.5	0.5
		50	24	15.06	15.13	15.12	15.5	0.5
		50	50	14.96	15.13	15.12	15.5	0.5
		100	0	14.10	14.25	14.18	14.5	1.5
	16QAM	1	0	14.19	14.30	14.29	14.5	1.5
		1	49	14.80	14.39	14.89	15.0	1.0
		1	99	14.79	14.27	14.88	15.0	1.0
		50	0	13.16	13.05	13.22	13.5	2.5
		50	24	13.16	13.20	13.23	13.5	2.5
		50	50	13.16	13.21	13.22	13.5	2.5
		100	0	13.20	13.25	13.19	13.5	2.5
	64QAM	1	0	13.20	13.25	13.19	13.5	2.5
		1	49	13.20	13.25	13.19	13.5	2.5
		1	99	13.20	13.25	13.19	13.5	2.5
		50	0	13.20	13.25	13.19	13.5	2.5
		50	24	13.20	13.25	13.19	13.5	2.5
		50	50	13.20	13.25	13.19	13.5	2.5
		100	0	13.20	13.25	13.19	13.5	2.5

Band 4

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				19957	20175	20393	Tune-up Tolerance	MPR (dB)
				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	16.51	16.42	16.39	17.0	0.5
		1	3	16.54	16.46	16.35	17.0	0.5
		1	5	16.53	16.46	16.35	17.0	0.5
		3	0	15.39	15.65	15.69	16.0	1.5
		3	1	15.55	15.56	15.58	16.0	1.5
		3	3	15.55	15.57	15.57	16.0	1.5
		6	0	15.43	15.68	15.70	16.0	1.5
	16QAM	1	0	15.90	15.70	15.98	16.0	1.5
		1	3	15.73	15.67	15.72	16.0	1.5
		1	5	15.73	15.67	15.72	16.0	1.5
		3	0	15.57	15.68	15.62	16.0	1.5
		3	1	15.53	15.70	15.61	16.0	1.5
		3	3	15.52	15.70	15.61	16.0	1.5
		6	0	14.82	14.84	14.27	15.0	2.5
	64QAM	1	0	14.68	14.84	14.28	15.0	2.5
		1	3	14.68	14.84	14.28	15.0	2.5
		1	5	14.68	14.84	14.29	15.0	2.5
		3	0	14.82	14.84	14.29	15.0	2.5
		3	1	14.82	14.84	14.29	15.0	2.5
		3	3	14.83	14.84	14.29	15.0	2.5
		6	0	14.82	14.84	14.29	15.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				19965	20175	20385	Tune-up Tolerance	MPR (dB)
				1711.5	1732.5	1753.5		
3	QPSK	1	0	16.34	16.87	16.53	17.0	0.5
		1	8	16.35	16.71	16.70	17.0	0.5
		1	14	16.23	16.71	16.69	17.0	0.5
		8	0	15.55	15.64	15.58	16.0	1.5
		8	4	15.62	15.71	15.65	16.0	1.5
		8	7	15.62	15.71	15.65	16.0	1.5
		15	0	15.59	15.68	15.67	16.0	1.5
	16QAM	1	0	15.86	15.73	15.53	16.0	1.5
		1	8	15.88	15.84	15.57	16.0	1.5
		1	14	15.87	15.84	15.57	16.0	1.5
		8	0	14.76	14.64	14.52	15.0	2.5
		8	4	14.83	14.80	14.49	15.0	2.5
		8	7	14.83	14.80	14.49	15.0	2.5
		15	0	14.44	14.63	14.74	15.0	2.5
	64QAM	1	0	14.44	14.63	14.74	15.0	2.5
		1	8	14.52	14.63	14.74	15.0	2.5
		1	14	14.52	14.63	14.74	15.0	2.5
		8	0	14.56	14.63	14.74	15.0	2.5
		8	4	14.45	14.63	14.74	15.0	2.5
		8	7	14.45	14.63	14.74	15.0	2.5
		15	0	14.48	14.63	14.74	15.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				19975	20175	20375	Tune-up Tolerance	MPR (dB)
				1712.5	1732.5	1752.5		
5	QPSK	1	0	16.04	16.38	16.44	16.5	1.0
		1	12	16.34	16.63	16.41	17.0	0.5
		1	24	16.33	16.63	16.41	17.0	0.5
		12	0	15.42	15.65	15.62	16.0	1.5
		12	7	15.37	15.76	15.72	16.0	1.5
		12	13	15.37	15.76	15.72	16.0	1.5
		25	0	15.49	15.70	15.76	16.0	1.5
	16QAM	1	0	15.20	15.83	15.55	16.0	1.5
		1	12	14.99	15.93	15.46	16.0	1.5
		1	24	14.99	15.93	15.46	16.0	1.5
		12	0	14.50	14.54	14.37	15.0	2.5
		12	7	14.46	14.66	14.51	15.0	2.5
		12	13	14.46	14.66	14.51	15.0	2.5
		25	0	14.44	14.55	14.72	15.0	2.5
	64QAM	1	0	14.58	14.55	14.71	15.0	2.5
		1	12	14.58	14.55	14.72	15.0	2.5
		1	24	14.58	14.55	14.72	15.0	2.5
		12	0	14.58	14.55	14.72	15.0	2.5
		12	7	14.58	14.55	14.71	15.0	2.5
		12	13	14.58	14.55	14.72	15.0	2.5
		25	0	14.58	14.55	14.71	15.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20000	20175	20350	Tune-up Tolerance	MPR (dB)
				1715	1732.5	1750		
10	QPSK	1	0	16.51	16.71	16.75	17.0	0.5
		1	25	16.61	16.63	16.48	17.0	0.5
		1	49	16.41	16.63	16.56	17.0	0.5
		25	0	15.52	15.67	15.55	16.0	1.5
		25	12	15.45	15.64	15.68	16.0	1.5
		25	25	15.44	15.64	15.68	16.0	1.5
		50	0	15.43	15.72	15.55	16.0	1.5
	16QAM	1	0	15.43	16.01	15.75	16.5	1.0
		1	25	15.82	16.75	15.61	17.0	0.5
		1	49	15.87	16.75	15.61	17.0	0.5
		25	0	14.67	14.73	14.54	15.0	2.5
		25	12	14.38	14.72	14.69	15.0	2.5
		25	25	14.37	14.72	14.68	15.0	2.5
		50	0	14.41	14.70	14.59	15.0	2.5
	64QAM	1	0	14.41	14.70	14.59	15.0	2.5
		1	25	14.41	14.71	14.59	15.0	2.5
		1	49	14.41	14.71	14.59	15.0	2.5
		25	0	14.41	14.70	14.59	15.0	2.5
		25	12	14.41	14.71	14.59	15.0	2.5
		25	25	14.41	14.71	14.59	15.0	2.5
		50	0	14.41	14.70	14.59	15.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20025	20175	20325	Tune-up Tolerance	MPR (dB)
				1717.5	1732.5	1747.5		
15	QPSK	1	0	16.33	16.75	16.39	17.0	0.5
		1	37	16.42	16.86	16.81	17.0	0.5
		1	74	16.41	16.69	16.41	17.0	0.5
		36	0	15.44	15.68	15.56	16.0	1.5
		36	29	15.45	15.52	15.65	16.0	1.5
		36	30	15.45	15.52	15.64	16.0	1.5
		75	0	15.45	15.63	15.54	16.0	1.5
	16QAM	1	0	16.07	16.18	16.00	16.5	1.0
		1	37	16.09	16.63	15.79	17.0	0.5
		1	74	16.09	16.63	15.80	17.0	0.5
		36	0	14.45	14.61	14.39	15.0	2.5
		36	29	14.47	14.48	14.68	15.0	2.5
		36	30	14.58	14.48	14.67	15.0	2.5
		75	0	14.58	14.65	14.65	15.0	2.5
	64QAM	1	0	14.58	14.65	14.65	15.0	2.5
		1	37	14.58	14.65	14.65	15.0	2.5
		1	74	14.58	14.65	14.65	15.0	2.5
		36	0	14.58	14.65	14.65	15.0	2.5
		36	29	14.58	14.65	14.65	15.0	2.5
		36	30	14.58	14.65	14.65	15.0	2.5
		75	0	14.57	14.65	14.65	15.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20050	20175	20300	Tune-up Tolerance	MPR (dB)
				1720	1732.5	1745		
20	QPSK	1	0	16.28	16.56	16.77	17.0	0.5
		1	49	16.36	16.83	16.99	17.0	0.5
		1	99	16.63	16.93	17.05	17.5	0.0
		50	0	16.34	16.47	16.52	17.0	0.5
		50	24	16.35	16.58	16.81	17.0	0.5
		50	50	16.34	16.58	16.81	17.0	0.5
		100	0	15.51	15.74	15.69	16.0	1.5
	16QAM	1	0	15.67	15.81	16.49	16.5	1.0
		1	49	15.44	15.73	16.76	17.0	0.5
		1	99	15.44	15.73	16.74	17.0	0.5
		50	0	14.44	14.72	14.69	15.0	2.5
		50	24	14.60	14.58	14.56	15.0	2.5
		50	50	14.60	14.59	14.55	15.0	2.5
		100	0	14.49	14.51	14.70	15.0	2.5
	64QAM	1	0	14.58	14.51	14.70	15.0	2.5
		1	49	14.58	14.51	14.71	15.0	2.5
		1	99	14.58	14.51	14.71	15.0	2.5
		50	0	14.58	14.51	14.71	15.0	2.5
		50	24	14.58	14.51	14.71	15.0	2.5
		50	50	14.58	14.51	14.71	15.0	2.5
		100	0	14.58	14.51	14.71	15.0	2.5

Band 5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20407	20525	20643	Tune-up Tolerance	MPR (dB)
				824.7	836.5	848.3		
1.4	QPSK	1	0	21.51	21.42	21.39	22.0	0.0
		1	3	21.54	21.46	21.35	22.0	0.0
		1	5	21.53	21.46	21.35	22.0	0.0
		3	0	20.39	20.65	20.69	21.0	1.0
		3	1	20.55	20.56	20.58	21.0	1.0
		3	3	20.55	20.57	20.57	21.0	1.0
		6	0	20.43	20.68	20.70	21.0	1.0
	16QAM	1	0	20.90	20.70	20.98	21.0	1.0
		1	3	20.73	20.67	20.72	21.0	1.0
		1	5	20.73	20.67	20.72	21.0	1.0
		3	0	20.57	20.68	20.62	21.0	1.0
		3	1	20.53	20.70	20.61	21.0	1.0
		3	3	20.52	20.70	20.61	21.0	1.0
		6	0	19.82	19.84	19.27	20.0	2.0
	64QAM	1	0	19.68	19.84	19.28	20.0	2.0
		1	3	19.68	19.84	19.28	20.0	2.0
		1	5	19.68	19.84	19.29	20.0	2.0
		3	0	19.82	19.84	19.29	20.0	2.0
		3	1	19.82	19.84	19.29	20.0	2.0
		3	3	19.83	19.84	19.29	20.0	2.0
		6	0	19.82	19.84	19.29	20.0	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20415	20525	20635	Tune-up Tolerance	MPR (dB)
				825.5	836.5	847.5		
3	QPSK	1	0	21.34	21.87	21.53	22.0	0.0
		1	8	21.35	21.71	21.70	22.0	0.0
		1	14	21.23	21.71	21.69	22.0	0.0
		8	0	20.55	20.64	20.58	21.0	1.0
		8	4	20.62	20.71	20.65	21.0	1.0
		8	7	20.62	20.71	20.65	21.0	1.0
		15	0	20.59	20.68	20.67	21.0	1.0
	16QAM	1	0	20.86	20.73	20.53	21.0	1.0
		1	8	20.88	20.84	20.57	21.0	1.0
		1	14	20.87	20.84	20.57	21.0	1.0
		8	0	19.76	19.64	19.52	20.0	2.0
		8	4	19.83	19.80	19.49	20.0	2.0
		8	7	19.83	19.80	19.49	20.0	2.0
		15	0	19.44	19.63	19.74	20.0	2.0
	64QAM	1	0	19.44	19.63	19.74	20.0	2.0
		1	8	19.52	19.63	19.74	20.0	2.0
		1	14	19.52	19.63	19.74	20.0	2.0
		8	0	19.56	19.63	19.74	20.0	2.0
		8	4	19.45	19.63	19.74	20.0	2.0
		8	7	19.45	19.63	19.74	20.0	2.0
		15	0	19.48	19.63	19.74	20.0	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20425	20525	20625	Tune-up Tolerance	MPR (dB)
				826.5	836.5	846.5		
5	QPSK	1	0	21.04	21.38	21.44	21.5	0.5
		1	12	21.34	21.63	21.41	22.0	0.0
		1	24	21.33	21.63	21.41	22.0	0.0
		12	0	20.42	20.65	20.62	21.0	1.0
		12	7	20.37	20.76	20.72	21.0	1.0
		12	13	20.37	20.76	20.72	21.0	1.0
		25	0	20.49	20.70	20.76	21.0	1.0
	16QAM	1	0	20.20	20.83	20.55	21.0	1.0
		1	12	19.99	20.93	20.46	21.0	1.0
		1	24	19.99	20.93	20.46	21.0	1.0
		12	0	19.50	19.54	19.37	20.0	2.0
		12	7	19.46	19.66	19.51	20.0	2.0
		12	13	19.46	19.66	19.51	20.0	2.0
		25	0	19.44	19.55	19.72	20.0	2.0
	64QAM	1	0	19.58	19.55	19.71	20.0	2.0
		1	12	19.58	19.55	19.72	20.0	2.0
		1	24	19.58	19.55	19.72	20.0	2.0
		12	0	19.58	19.55	19.72	20.0	2.0
		12	7	19.58	19.55	19.71	20.0	2.0
		12	13	19.58	19.55	19.72	20.0	2.0
		25	0	19.58	19.55	19.71	20.0	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20450	20525	20600	Tune-up Tolerance	MPR (dB)
				829	836.5	844		
10	QPSK	1	0	21.51	21.71	21.75	22.0	0.0
		1	25	21.61	21.63	21.48	22.0	0.0
		1	49	21.41	21.63	21.56	22.0	0.0
		25	0	20.52	20.67	20.55	21.0	1.0
		25	12	20.45	20.64	20.68	21.0	1.0
		25	25	20.44	20.64	20.68	21.0	1.0
		50	0	20.43	20.72	20.55	21.0	1.0
	16QAM	1	0	20.43	21.01	20.75	21.5	0.5
		1	25	20.82	21.75	20.61	22.0	0.0
		1	49	20.87	21.75	20.61	22.0	0.0
		25	0	19.67	19.73	19.54	20.0	2.0
		25	12	19.38	19.72	19.69	20.0	2.0
		25	25	19.37	19.72	19.68	20.0	2.0
		50	0	19.41	19.70	19.59	20.0	2.0
	64QAM	1	0	19.41	19.70	19.59	20.0	2.0
		1	25	19.41	19.71	19.59	20.0	2.0
		1	49	19.41	19.71	19.59	20.0	2.0
		25	0	19.41	19.70	19.59	20.0	2.0
		25	12	19.41	19.71	19.59	20.0	2.0
		25	25	19.41	19.71	19.59	20.0	2.0
		50	0	19.41	19.70	19.59	20.0	2.0

Band 7

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20775	21100	21425	Tune-up Tolerance	MPR (dB)
				2502.5	2535	2567.5		
5	QPSK	1	0	14.03	14.47	14.42	14.5	1.0
		1	12	14.09	14.70	14.49	15.0	0.5
		1	24	14.07	14.70	14.49	15.0	0.5
		12	0	13.47	13.81	13.51	14.0	1.5
		12	7	13.52	13.71	13.50	14.0	1.5
		12	13	13.52	13.71	13.50	14.0	1.5
		25	0	13.53	13.72	13.55	14.0	1.5
	16QAM	1	0	13.19	14.00	13.34	14.0	1.5
		1	12	13.19	14.15	13.49	14.5	1.0
		1	24	13.22	14.15	13.49	14.5	1.0
		12	0	12.49	12.73	12.60	13.0	2.5
		12	7	12.56	12.66	12.63	13.0	2.5
		12	13	12.56	12.66	12.63	13.0	2.5
		25	0	12.57	12.61	12.54	13.0	2.5
	64QAM	1	0	12.57	12.62	12.55	13.0	2.5
		1	12	12.57	12.61	12.54	13.0	2.5
		1	24	12.57	12.61	12.54	13.0	2.5
		12	0	12.57	12.61	12.64	13.0	2.5
		12	7	12.57	12.62	12.64	13.0	2.5
		12	13	12.57	12.62	12.54	13.0	2.5
		25	0	12.57	12.62	12.54	13.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20800	21100	21400	Tune-up Tolerance	MPR (dB)
				2505	2535	2565		
10	QPSK	1	0	14.41	14.84	14.48	15.0	0.5
		1	25	14.56	14.83	14.84	15.0	0.5
		1	49	14.55	14.83	14.84	15.0	0.5
		25	0	13.48	13.81	13.59	14.0	1.5
		25	12	13.51	13.83	13.52	14.0	1.5
		25	25	13.51	13.83	13.53	14.0	1.5
		50	0	13.65	13.79	13.62	14.0	1.5
	16QAM	1	0	13.99	14.67	13.56	15.0	0.5
		1	25	14.07	14.84	13.86	15.0	0.5
		1	49	14.07	14.84	13.78	15.0	0.5
		25	0	12.69	12.96	12.77	13.0	2.5
		25	12	12.54	12.79	12.70	13.0	2.5
		25	25	12.54	12.98	12.91	13.0	2.5
		50	0	12.59	12.87	12.58	13.0	2.5
	64QAM	1	0	12.59	12.87	12.58	13.0	2.5
		1	25	12.59	12.87	12.58	13.0	2.5
		1	49	12.59	12.87	12.58	13.0	2.5
		25	0	12.59	12.87	12.58	13.0	2.5
		25	12	12.59	12.87	12.58	13.0	2.5
		25	25	12.59	12.87	12.58	13.0	2.5
		50	0	12.59	12.87	12.58	13.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20825	21100	21375	Tune-up Tolerance	MPR (dB)
				2507.5	2535	2562.5		
15	QPSK	1	0	14.32	14.29	14.43	14.5	1.0
		1	37	14.31	14.84	14.80	15.0	0.5
		1	74	14.31	14.66	14.84	15.0	0.5
		36	0	13.78	13.96	13.48	14.0	1.5
		36	29	13.70	13.72	13.62	14.0	1.5
		36	30	13.58	13.72	13.63	14.0	1.5
		75	0	13.64	13.69	13.56	14.0	1.5
	16QAM	1	0	14.01	14.57	13.65	15.0	0.5
		1	37	14.01	14.30	13.87	14.5	1.0
		1	74	13.93	14.34	13.88	14.5	1.0
		36	0	12.54	12.75	12.45	13.0	2.5
		36	29	12.58	12.99	12.36	13.0	2.5
		36	30	12.58	12.99	12.46	13.0	2.5
		75	0	12.52	12.71	12.61	13.0	2.5
	64QAM	1	0	12.53	12.71	12.61	13.0	2.5
		1	37	12.53	12.71	12.61	13.0	2.5
		1	74	12.52	12.72	12.61	13.0	2.5
		36	0	12.53	12.72	12.60	13.0	2.5
		36	29	12.52	12.71	12.61	13.0	2.5
		36	30	12.52	12.71	12.61	13.0	2.5
		75	0	12.52	12.71	12.60	13.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				20850	21100	21350	Tune-up Tolerance	MPR (dB)
				2510	2535	2560		
20	QPSK	1	0	14.54	15.17	14.54	15.5	0.0
		1	49	14.43	14.82	14.30	15.0	0.5
		1	99	14.43	14.82	14.29	15.0	0.5
		50	0	13.58	13.96	13.59	14.0	1.5
		50	24	13.71	13.81	13.64	14.0	1.5
		50	50	13.71	13.82	13.64	14.0	1.5
		100	0	13.66	13.92	13.69	14.0	1.5
	16QAM	1	0	12.90	13.54	13.18	14.0	1.5
		1	49	13.80	13.88	13.95	14.0	1.5
		1	99	13.80	13.79	13.95	14.0	1.5
		50	0	12.52	12.76	12.55	13.0	2.5
		50	24	12.56	12.72	12.45	13.0	2.5
		50	50	12.56	12.72	12.45	13.0	2.5
		100	0	12.54	12.82	12.77	13.0	2.5
	64QAM	1	0	12.54	12.85	12.76	13.0	2.5
		1	49	12.54	12.91	12.76	13.0	2.5
		1	99	12.54	12.91	12.76	13.0	2.5
		50	0	12.54	12.91	12.76	13.0	2.5
		50	24	12.54	12.91	12.76	13.0	2.5
		50	50	12.54	12.91	12.76	13.0	2.5
		100	0	12.54	12.91	12.76	13.0	2.5

Band 12

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23017	23095	23173	Tune-up Tolerance	MPR (dB)
				699.7	707.5	715.3		
1.4	QPSK	1	0	15.16	16.63	16.81	17.0	0.0
		1	3	15.10	16.62	16.77	17.0	0.0
		1	5	15.06	16.62	16.75	17.0	0.0
		3	0	15.56	15.61	15.72	16.0	1.0
		3	1	15.62	15.65	15.59	16.0	1.0
		3	3	15.63	15.65	15.68	16.0	1.0
		6	0	14.87	15.66	15.49	16.0	1.0
	16QAM	1	0	15.04	15.73	15.93	16.0	1.0
		1	3	14.97	15.76	15.70	16.0	1.0
		1	5	14.96	15.76	15.69	16.0	1.0
		3	0	15.71	15.74	15.64	16.0	1.0
		3	1	15.70	15.64	15.64	16.0	1.0
		3	3	15.70	15.64	15.63	16.0	1.0
		6	0	14.46	15.07	14.39	15.5	1.5
	64QAM	1	0	14.46	15.07	14.33	15.5	1.5
		1	3	14.47	15.07	14.33	15.5	1.5
		1	5	14.46	15.07	14.33	15.5	1.5
		3	0	14.46	15.07	14.34	15.5	1.5
		3	1	14.46	15.07	14.34	15.5	1.5
		3	3	14.46	15.07	14.34	15.5	1.5
		6	0	14.46	15.07	14.34	15.5	1.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23025	23095	23165	Tune-up Tolerance	MPR (dB)
				700.5	707.5	714.5		
3	QPSK	1	0	15.60	16.39	16.61	17.0	0.0
		1	8	15.42	16.67	16.59	17.0	0.0
		1	14	15.32	16.67	16.57	17.0	0.0
		8	0	15.54	15.67	15.62	16.0	1.0
		8	4	15.56	15.67	15.55	16.0	1.0
		8	7	15.56	15.67	15.55	16.0	1.0
		15	0	15.59	15.67	15.63	16.0	1.0
	16QAM	1	0	15.93	15.96	15.75	16.0	1.0
		1	8	15.88	16.30	15.51	16.5	0.5
		1	14	15.89	16.29	15.50	16.5	0.5
		8	0	14.61	14.93	14.59	15.0	2.0
		8	4	14.37	14.94	14.47	15.0	2.0
		8	7	14.38	14.94	14.47	15.0	2.0
		15	0	14.56	14.99	14.65	15.0	2.0
	64QAM	1	0	14.56	14.99	14.65	15.0	2.0
		1	8	14.56	14.99	14.65	15.0	2.0
		1	14	14.56	14.99	14.66	15.0	2.0
		8	0	14.56	14.99	14.65	15.0	2.0
		8	4	14.56	14.99	14.66	15.0	2.0
		8	7	14.56	14.99	14.65	15.0	2.0
		15	0	14.56	14.99	14.66	15.0	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23035	23095	23155	Tune-up Tolerance	MPR (dB)
				701.5	707.5	713.5		
5	QPSK	1	0	15.57	16.39	16.63	17.0	0.0
		1	12	15.59	16.39	16.48	16.5	0.5
		1	24	15.59	16.38	16.47	16.5	0.5
		12	0	15.52	15.67	15.62	16.0	1.0
		12	7	15.50	15.68	15.47	16.0	1.0
		12	13	15.50	15.68	15.47	16.0	1.0
		25	0	15.51	15.59	15.70	16.0	1.0
	16QAM	1	0	15.47	15.74	15.52	16.0	1.0
		1	12	15.02	15.86	15.21	16.0	1.0
		1	24	15.02	15.86	15.20	16.0	1.0
		12	0	14.60	14.62	14.60	15.0	2.0
		12	7	14.58	14.65	14.49	15.0	2.0
		12	13	14.58	14.66	14.49	15.0	2.0
		25	0	14.73	14.60	14.81	15.0	2.0
	64QAM	1	0	14.73	14.60	14.81	15.0	2.0
		1	12	14.73	14.60	14.81	15.0	2.0
		1	24	14.73	14.60	14.81	15.0	2.0
		12	0	14.73	14.60	14.81	15.0	2.0
		12	7	14.73	14.61	14.81	15.0	2.0
		12	13	14.73	14.61	14.81	15.0	2.0
		25	0	14.73	14.60	14.81	15.0	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23060	23095	23130	Tune-up Tolerance	MPR (dB)
				704	707.5	711		
10	QPSK	1	0	15.51	16.80	16.53	17.0	0.0
		1	25	15.59	16.81	16.72	17.0	0.0
		1	49	15.60	16.80	16.83	17.0	0.0
		25	0	15.01	16.57	16.80	17.0	0.0
		25	12	14.84	16.78	16.77	17.0	0.0
		25	25	14.83	16.86	16.76	17.0	0.0
		50	0	15.47	15.68	15.64	16.0	1.0
	16QAM	1	0	15.83	15.90	15.71	16.0	1.0
		1	25	16.01	16.25	15.45	16.5	0.5
		1	49	16.01	16.25	15.50	16.5	0.5
		25	0	14.49	14.80	14.82	15.0	2.0
		25	12	14.66	14.83	14.80	15.0	2.0
		25	25	14.66	14.83	14.80	15.0	2.0
		50	0	14.59	14.69	14.76	15.0	2.0
	64QAM	1	0	14.58	14.70	14.76	15.0	2.0
		1	25	14.58	14.69	14.76	15.0	2.0
		1	49	14.58	14.70	14.76	15.0	2.0
		25	0	14.58	14.70	14.76	15.0	2.0
		25	12	14.58	14.69	14.77	15.0	2.0
		25	25	14.58	14.69	14.76	15.0	2.0
		50	0	14.58	14.69	14.77	15.0	2.0

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BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				23205	23230	23255	Tune-up Tolerance	MPR (dB)
				779.5	782	784.5		
5	QPSK	1	0	20.77	21.02	21.81	22.0	0.5
		1	12	20.78	21.03	21.80	22.0	0.5
		1	24	20.77	21.02	21.79	22.0	0.5
		12	0	21.04	21.02	21.04	21.5	1.0
		12	7	21.05	21.04	21.07	21.5	1.0
		12	13	21.05	21.04	21.06	21.5	1.0
		25	0	21.04	21.00	21.04	21.5	1.0
	16QAM	1	0	20.79	21.38	21.21	21.5	1.0
		1	12	20.94	21.52	21.13	22.0	0.5
		1	24	20.94	21.52	21.12	22.0	0.5
		12	0	20.18	20.06	20.15	20.5	2.0
		12	7	20.10	20.08	20.22	20.5	2.0
		12	13	20.11	20.08	20.22	20.5	2.0
		25	0	20.28	20.08	20.17	20.5	2.0
	64QAM	1	0	20.28	20.08	20.17	20.5	2.0
		1	12	20.28	20.08	20.17	20.5	2.0
		1	24	20.28	20.08	20.17	20.5	2.0
		12	0	20.28	20.09	20.17	20.5	2.0
		12	7	20.28	20.08	20.17	20.5	2.0
		12	13	20.28	20.08	20.17	20.5	2.0
		25	0	20.28	20.08	20.17	20.5	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				23230	Tune-up Tolerance	MPR (dB)
				782		
10	QPSK	1	0	21.96	22.0	0.5
		1	25	22.15	22.5	0.0
		1	49	22.15	22.5	0.0
		25	0	21.05	21.5	1.0
		25	12	21.08	21.5	1.0
		25	25	21.08	21.5	1.0
		50	0	21.07	21.5	1.0
	16QAM	1	0	21.40	21.5	1.0
		1	25	21.44	21.5	1.0
		1	49	21.44	21.5	1.0
		25	0	20.08	20.5	2.0
		25	12	20.03	20.5	2.0
		25	25	20.03	20.5	2.0
		50	0	20.06	20.5	2.0
	64QAM	1	0	20.06	20.5	2.0
		1	25	20.06	20.5	2.0
		1	49	20.06	20.5	2.0
		25	0	20.06	20.5	2.0
		25	12	20.06	20.5	2.0
		25	25	20.06	20.5	2.0
		50	0	20.06	20.5	2.0

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BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				131979	132422	132665	Tune-up Tolerance	MPR (dB)
				1710.7	1755	1779.3		
1.4	QPSK	1	0	17.73	17.81	17.58	18.0	0.5
		1	3	17.69	17.93	17.69	18.0	0.5
		1	5	17.77	18.00	17.67	18.0	0.5
		3	0	16.53	16.76	16.53	17.0	1.5
		3	1	16.70	16.76	16.86	17.0	1.5
		3	3	16.70	16.76	16.85	17.0	1.5
		6	0	16.62	16.72	16.72	17.0	1.5
	16QAM	1	0	16.83	16.92	16.67	17.0	1.5
		1	3	16.87	17.01	16.78	17.5	1.0
		1	5	16.87	17.01	16.78	17.5	1.0
		3	0	16.75	16.84	17.02	17.5	1.0
		3	1	16.80	16.96	17.04	17.5	1.0
		3	3	16.80	16.96	17.04	17.5	1.0
		6	0	15.88	15.96	15.74	16.0	2.5
	64QAM	1	0	15.88	15.85	15.75	16.0	2.5
		1	3	15.87	15.97	15.75	16.0	2.5
		1	5	15.88	15.85	15.75	16.0	2.5
		3	0	15.87	15.85	15.75	16.0	2.5
		3	1	15.87	15.96	15.74	16.0	2.5
		3	3	15.87	15.96	15.75	16.0	2.5
		6	0	15.87	15.85	15.74	16.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				131987	132422	132657	Tune-up Tolerance	MPR (dB)
				1711.5	1755	1778.5		
3	QPSK	1	0	17.42	17.65	17.80	18.0	0.5
		1	8	17.37	17.77	17.77	18.0	0.5
		1	14	17.35	17.75	17.75	18.0	0.5
		8	0	16.68	16.83	16.83	17.0	1.5
		8	4	16.64	16.90	16.83	17.0	1.5
		8	7	16.63	16.90	16.82	17.0	1.5
		15	0	16.68	16.70	16.78	17.0	1.5
	16QAM	1	0	16.49	17.19	16.97	17.5	1.0
		1	8	16.40	17.16	17.04	17.5	1.0
		1	14	16.39	17.16	17.03	17.5	1.0
		8	0	15.54	15.95	15.76	16.0	2.5
		8	4	15.49	16.04	15.78	16.5	2.0
		8	7	15.49	16.04	15.78	16.5	2.0
		15	0	15.68	16.10	15.92	16.5	2.0
	64QAM	1	0	15.55	16.10	15.82	16.5	2.0
		1	8	15.68	16.10	15.92	16.5	2.0
		1	14	15.68	16.10	15.91	16.5	2.0
		8	0	15.68	16.10	15.82	16.5	2.0
		8	4	15.55	16.10	15.91	16.5	2.0
		8	7	15.55	16.09	15.91	16.5	2.0
		15	0	15.55	16.09	15.91	16.5	2.0

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				131997	132422	132647	Tune-up Tolerance	MPR (dB)
				1712.5	1755	1777.5		
5	QPSK	1	0	17.37	17.20	17.41	17.5	1.0
		1	12	17.22	17.39	17.43	17.5	1.0
		1	24	17.30	17.37	17.41	17.5	1.0
		12	0	16.65	16.80	16.75	17.0	1.5
		12	7	16.57	16.87	16.73	17.0	1.5
		12	13	16.56	16.87	16.73	17.0	1.5
		25	0	16.49	16.87	16.77	17.0	1.5
	16QAM	1	0	16.23	17.09	16.47	17.5	1.0
		1	12	16.13	17.26	16.48	17.5	1.0
		1	24	16.24	17.26	16.47	17.5	1.0
		12	0	15.63	15.71	15.40	16.0	2.5
		12	7	15.57	15.69	15.42	16.0	2.5
		12	13	15.58	15.69	15.42	16.0	2.5
		25	0	15.57	15.84	15.81	16.0	2.5
	64QAM	1	0	15.57	15.84	15.80	16.0	2.5
		1	12	15.57	15.84	15.80	16.0	2.5
		1	24	15.57	15.84	15.80	16.0	2.5
		12	0	15.56	15.84	15.80	16.0	2.5
		12	7	15.57	15.84	15.80	16.0	2.5
		12	13	15.56	15.84	15.80	16.0	2.5
		25	0	15.56	15.84	15.80	16.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				132022	132422	132622	Tune-up Tolerance	MPR (dB)
				1715	1755	1775		
10	QPSK	1	0	17.92	17.37	17.45	18.0	0.5
		1	25	17.63	17.68	17.53	18.0	0.5
		1	49	17.60	17.74	17.50	18.0	0.5
		25	0	16.50	16.52	16.70	17.0	1.5
		25	12	16.52	16.77	16.80	17.0	1.5
		25	25	16.51	16.87	16.79	17.0	1.5
		50	0	16.50	16.77	16.79	17.0	1.5
	16QAM	1	0	17.06	16.93	16.66	17.5	1.0
		1	25	16.59	17.82	17.13	18.0	0.5
		1	49	16.59	17.80	17.11	18.0	0.5
		25	0	15.73	15.59	15.94	16.0	2.5
		25	12	15.45	15.64	15.96	16.0	2.5
		25	25	15.45	15.64	15.95	16.0	2.5
		50	0	15.46	15.74	15.61	16.0	2.5
	64QAM	1	0	15.46	15.74	15.61	16.0	2.5
		1	25	15.46	15.74	15.61	16.0	2.5
		1	49	15.46	15.74	15.61	16.0	2.5
		25	0	15.46	15.74	15.61	16.0	2.5
		25	12	15.46	15.74	15.70	16.0	2.5
		25	25	15.45	15.74	15.70	16.0	2.5
		50	0	15.45	15.74	15.70	16.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				132047	132422	132597	Tune-up Tolerance	MPR (dB)
				1717.5	1755	1772.5		
15	QPSK	1	0	17.64	17.29	17.52	18.0	0.5
		1	37	17.38	17.59	17.73	18.0	0.5
		1	74	17.47	17.57	17.79	18.0	0.5
		36	0	16.59	16.51	16.68	17.0	1.5
		36	29	16.67	16.88	16.78	17.0	1.5
		36	30	16.67	16.87	16.78	17.0	1.5
		75	0	16.55	16.71	16.78	17.0	1.5
	16QAM	1	0	17.12	16.66	16.93	17.5	1.0
		1	37	16.67	16.52	16.90	17.0	1.5
		1	74	16.80	16.51	16.90	17.0	1.5
		36	0	15.69	15.66	15.43	16.0	2.5
		36	29	15.58	15.62	15.83	16.0	2.5
		36	30	15.49	15.71	15.84	16.0	2.5
		75	0	15.58	15.75	15.83	16.0	2.5
	64QAM	1	0	15.57	15.86	15.83	16.0	2.5
		1	37	15.58	15.86	15.83	16.0	2.5
		1	74	15.58	15.75	15.83	16.0	2.5
		36	0	15.57	15.86	15.83	16.0	2.5
		36	29	15.57	15.86	15.83	16.0	2.5
		36	30	15.57	15.86	15.83	16.0	2.5
		75	0	15.57	15.85	15.83	16.0	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				132072	132422	132572	Tune-up Tolerance	MPR (dB)
				1720	1755	1770		
20	QPSK	1	0	17.42	17.30	18.15	18.5	0.0
		1	49	17.47	18.00	17.60	18.0	0.5
		1	99	17.46	18.06	17.58	18.5	0.0
		50	0	17.60	17.67	17.72	18.0	0.5
		50	24	17.59	17.75	17.73	18.0	0.5
		50	50	17.58	17.74	17.72	18.0	0.5
		100	0	16.59	16.75	16.80	17.0	1.5
	16QAM	1	0	17.49	17.43	17.72	18.0	0.5
		1	49	17.42	17.41	17.64	18.0	0.5
		1	99	17.52	18.31	17.64	18.5	0.0
		50	0	15.53	15.56	15.59	16.0	2.5
		50	24	15.73	15.71	15.73	16.0	2.5
		50	50	15.73	15.70	15.73	16.0	2.5
		100	0	15.66	15.88	15.69	16.0	2.5
	64QAM	1	0	15.66	15.88	15.68	16.0	2.5
		1	49	15.66	15.88	15.68	16.0	2.5
		1	99	15.66	15.88	15.68	16.0	2.5
		50	0	15.66	15.88	15.68	16.0	2.5
		50	24	15.66	15.88	15.68	16.0	2.5
		50	50	15.66	15.88	15.68	16.0	2.5
		100	0	15.65	15.88	15.68	16.0	2.5

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BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				133147	133297	133447	Tune-up Tolerance	MPR (dB)
				665.5	680.5	695.5		
5	QPSK	1	0	19.42	21.06	21.03	21.5	0.5
		1	12	21.17	21.21	20.96	21.5	0.5
		1	24	21.15	21.17	20.94	21.5	0.5
		12	0	20.15	20.38	20.28	20.5	1.5
		12	7	20.25	20.34	20.29	20.5	1.5
		12	13	20.25	20.33	20.28	20.5	1.5
		25	0	20.31	20.40	20.31	20.5	1.5
	16QAM	1	0	18.33	19.99	19.91	20.0	2.0
		1	12	20.20	20.03	19.87	20.5	1.5
		1	24	20.01	20.00	19.86	20.5	1.5
		12	0	19.22	19.46	19.12	19.5	2.5
		12	7	19.31	19.41	19.08	19.5	2.5
		12	13	19.31	19.41	19.09	19.5	2.5
		25	0	19.17	19.38	19.18	19.5	2.5
	64QAM	1	0	19.27	19.38	19.18	19.5	2.5
		1	12	19.27	19.38	19.18	19.5	2.5
		1	24	19.27	19.38	19.18	19.5	2.5
		12	0	19.27	19.38	19.18	19.5	2.5
		12	7	19.27	19.38	19.18	19.5	2.5
		12	13	19.27	19.37	19.18	19.5	2.5
		25	0	19.27	19.37	19.18	19.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				133172	133297	133422	Tune-up Tolerance	MPR (dB)
				668	680.5	693		
10	QPSK	1	0	19.43	21.16	21.24	21.5	0.5
		1	25	21.47	21.22	21.27	21.5	0.5
		1	49	21.45	21.20	21.33	21.5	0.5
		25	0	20.27	20.38	20.39	20.5	1.5
		25	12	20.43	20.42	20.40	20.5	1.5
		25	25	20.33	20.41	20.39	20.5	1.5
		50	0	20.32	20.43	20.33	20.5	1.5
	16QAM	1	0	18.46	20.58	20.36	21.0	1.0
		1	25	20.59	21.04	20.58	21.5	0.5
		1	49	20.60	21.04	20.68	21.5	0.5
		25	0	19.51	19.57	19.55	20.0	2.0
		25	12	19.59	19.60	19.47	20.0	2.0
		25	25	19.60	19.60	19.47	20.0	2.0
		50	0	19.26	19.36	19.36	19.5	2.5
	64QAM	1	0	19.26	19.36	19.36	19.5	2.5
		1	25	19.26	19.36	19.36	19.5	2.5
		1	49	19.26	19.36	19.36	19.5	2.5
		25	0	19.25	19.36	19.36	19.5	2.5
		25	12	19.25	19.46	19.36	19.5	2.5
		25	25	19.26	19.36	19.36	19.5	2.5
		50	0	19.25	19.35	19.36	19.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				133197	133297	133397	Tune-up Tolerance	MPR (dB)
				670.5	680.5	690.5		
15	QPSK	1	0	19.35	21.04	21.14	21.5	0.5
		1	37	21.19	21.28	21.15	21.5	0.5
		1	74	21.17	21.25	21.12	21.5	0.5
		36	0	20.31	20.39	20.35	20.5	1.5
		36	29	20.26	20.31	20.32	20.5	1.5
		36	30	20.36	20.42	20.31	20.5	1.5
		75	0	20.20	20.38	20.43	20.5	1.5
	16QAM	1	0	18.78	20.37	20.54	21.0	1.0
		1	37	20.69	20.84	20.66	21.0	1.0
		1	74	20.69	20.83	20.46	21.0	1.0
		36	0	19.45	19.37	19.32	19.5	2.5
		36	29	19.51	19.60	19.29	20.0	2.0
		36	30	19.51	19.50	19.29	20.0	2.0
		75	0	19.18	19.50	19.50	19.5	2.5
	64QAM	1	0	19.17	19.43	19.49	19.5	2.5
		1	37	19.27	19.43	19.49	19.5	2.5
		1	74	19.27	19.43	19.49	19.5	2.5
		36	0	19.17	19.43	19.49	19.5	2.5
		36	29	19.37	19.43	19.49	19.5	2.5
		36	30	19.37	19.42	19.49	19.5	2.5
		75	0	19.37	19.42	19.49	19.5	2.5

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)				
				133222	133322	133372	Tune-up Tolerance	MPR (dB)
				673	683	688		
20	QPSK	1	0	19.10	21.15	20.94	21.5	0.5
		1	49	21.05	21.62	21.27	22.0	0.0
		1	99	21.03	21.59	20.98	22.0	0.0
		50	0	20.32	20.41	20.40	20.5	1.5
		50	24	20.36	20.33	20.45	20.5	1.5
		50	50	20.35	20.33	20.44	20.5	1.5
		100	0	20.34	20.41	20.31	20.5	1.5
	16QAM	1	0	18.63	20.25	20.44	20.5	1.5
		1	49	20.68	20.44	21.56	22.0	0.0
		1	99	20.67	20.33	21.17	21.5	0.5
		50	0	19.19	19.29	19.25	19.5	2.5
		50	24	19.25	19.40	19.33	19.5	2.5
		50	50	19.25	19.40	19.33	19.5	2.5
		100	0	19.24	19.24	19.32	19.5	2.5
	64QAM	1	0	19.24	19.24	19.40	19.5	2.5
		1	49	19.24	19.24	19.32	19.5	2.5
		1	99	19.24	19.24	19.32	19.5	2.5
		50	0	19.24	19.24	19.32	19.5	2.5
		50	24	19.23	19.24	19.32	19.5	2.5
		50	50	19.23	19.24	19.31	19.5	2.5
		100	0	19.23	19.24	19.32	19.5	2.5

Bluetooth

Modulation type	Conducted Average Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK	10.77	11.19	10.37
π4DQPSK	7.92	8.38	7.6
8DPSK	7.9	8.11	7.51

Bluetooth (BLE)

Modulation type	Conducted Average Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	4.41	5.01	4.44

WLAN 2.4GHz

Mode	Freq(MHz)	Conducted Average power	Tune up Tolerance	Reduced Conducted Average power	Tune up Tolerance
802.11b	2412MHz	18.90	19.0	14.90	15.0
	2437MHz	19.00		15.00	
	2462MHz	18.80		14.80	
802.11g	2412MHz	17.40	18.0	13.40	14.0
	2437MHz	17.60		13.60	
	2462MHz	17.50		13.50	
802.11n20M	2412MHz	16.40	16.5	12.40	12.5
	2437MHz	16.20		12.20	
	2462MHz	16.10		12.10	
802.11n40M	2422MHz	16.00	16.0	12.00	12.0
	2437MHz	16.00		12.00	
	2452MHz	15.80		11.80	

WLAN 5GHz UNII-1

Mode	Freq(MHz)	Conducted Average power	Tune up Tolerance	Reduced Conducted Average power	Tune up Tolerance
802.11a	5180	17.40	17.5	11.40	11.5
	5220	17.20		11.20	
	5240	17.30		11.30	
802.11n20M	5180	16.10	16.5	10.10	10.5
	5240	16.20		10.20	
802.11n40M	5190	16.90	17.0	10.90	11.0
	5230	16.70		10.70	
802.11ac20M	5180	14.40	14.5	8.40	8.5
	5220	14.20		8.20	
	5240	14.10		8.10	
802.11ac40M	5190	15.10	15.5	9.10	9.5
	5230	15.00		9.00	
802.11ac80M	5210	14.60	15.0	8.60	9.0

WLAN 5GHz UNII-3

Mode	Freq(MHz)	Conducted Average power	Tune up Tolerance	Reduced Conducted Average power	Tune up Tolerance
802.11a	5745	17.30	17.5	14.30	14.5
	5785	17.40		14.40	
	5825	17.40		14.40	
802.11n20M	5745	16.30	16.5	13.30	13.5
	5785	16.40		13.40	
	5825	16.50		13.50	
802.11n40M	5755	17.00	17.5	14.00	14.5
	5795	17.10		14.10	
802.11ac20M	5745	14.30	15.0	11.30	12.0
	5785	14.50		11.50	
	5825	14.80		11.80	
802.11ac40M	5755	15.10	15.5	12.10	12.5
	5795	15.20		12.20	
802.11ac80M	5775	14.80	15.0	11.80	12.0

6.2 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Method1:

According to the KDB447498 4.3.1 (1)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} (\text{GHz})] \leq 3.0$ for 1-g SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

This is equivalent to $[(\text{max. power of channel, including tune-up tolerance, mW}) / (60 / \sqrt{f} (\text{GHz}) \text{ mW})] \cdot [20 \text{ mm} / (\text{min. test separation distance, mm})] \leq 1.0$ for 1-g SAR; also see Appendix A for approximate exclusion threshold values at selected frequencies and distances.

Method2:

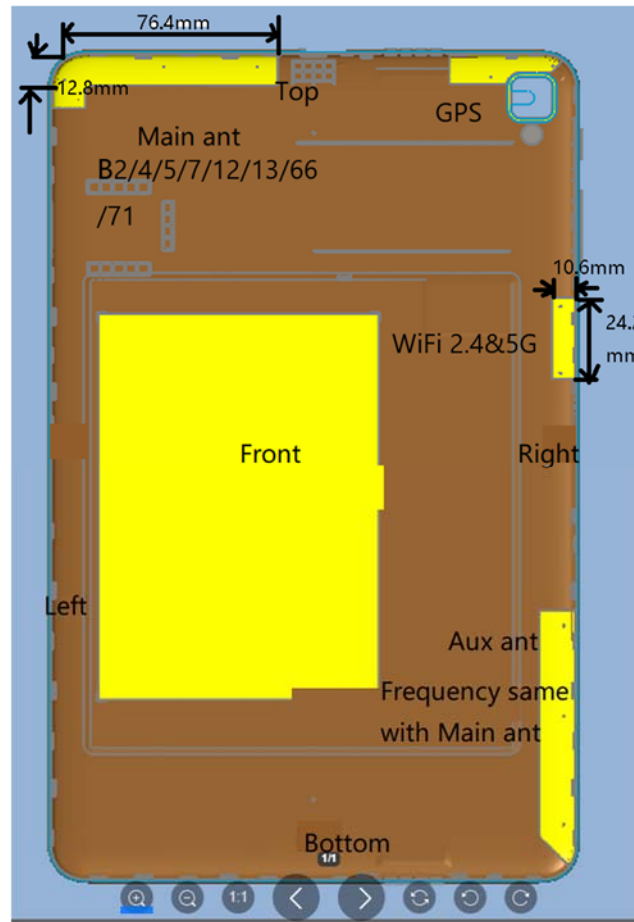
According to the KDB447498 appendix A

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

6.3 RF exposure conditions

Refer to the follow picture “Antenna information”.



MAIN ANT	Max Gain(dBi)	DIV ANT	Max Gain(dBi)	GPS&WIFI&BT ANT	Max Gain(dBi)
LTE BAND 2	-1.7	LTE BAND 2	-1.8	GPS	0.6
LTE BAND 4	-1.1	LTE BAND 4	-0.5	WIFI 2.4GHz	1.1
LTE BAND 5	-1.3	LTE BAND 5	-1.5	WIFI 5GHz	1.1
LTE BAND 7	-1.4	LTE BAND 7	-1.5	BT	1.1
LTE BAND 12	-3.4	LTE BAND 12	-1.2		
LTE BAND 13	-3.2	LTE BAND 13	-3.7		
LTE BAND 66	-1.1	LTE BAND 66	-0.5		
LTE BAND 71	-4.8	LTE BAND 71	-4.2		
WCDMA B2	-1.7	WCDMA B2	-1.8		
WCDMA B4	-1.1	WCDMA B4	-0.5		
WCDMA B5	-1.3	WCDMA B5	-1.5		

Note: we defined these positions when we face the screen of EUT.

**Body Exposure conditions
 For WWAN**

Test Configurations	SAR Required
Back	Yes
Front	No
Top	Yes
Bottom	No
Left	Yes
Right	No

For WIFI/BT

Test Configurations	SAR Required
Back	Yes
Front	No
Top	Yes
Bottom	No
Left	No
Right	Yes

Note: According to KDB 616217 section4.3, The antennas embedded in tablets are \leq 5mm from the outer housing, When the dedicated host approach is applied, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. Edge testing is necessary for considering simultaneous transmission. But extremity SAR evaluation for the front surface of tablet display is not necessary because tablet that is not designed to require continuous operations with the hand(s) next to the antenna(s).

6.4 System Checking

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. For the measurement of the following parameters the SPEAG DAKS-3.5 dielectric parameter probe is used, representing the open-ended coaxial probe measurement procedure.

Freq. (MHz)	Liquid parameters	measured	Target	Delta (%)	Tolerance (%)	Verdict
750	ϵ_r	41.47	41.90	-1.03	± 10	Pass
	σ [S/m]	0.86	0.89	-3.37	± 10	Pass
835	ϵ_r	41.42	41.50	-0.19	± 10	Pass
	σ [S/m]	0.89	0.90	-1.11	± 10	Pass
1800	ϵ_r	39.83	40.00	-0.43	± 10	Pass
	σ [S/m]	1.35	1.40	-3.57	± 10	Pass
2000	ϵ_r	39.82	40.00	-0.45	± 10	Pass
	σ [S/m]	1.35	1.40	-3.57	± 10	Pass
2450	ϵ_r	38.94	39.20	-0.66	± 10	Pass
	σ [S/m]	1.75	1.80	-2.78	± 10	Pass
2600	ϵ_r	38.93	39.00	-0.18	± 10	Pass
	σ [S/m]	1.88	1.96	-4.08	± 10	Pass
5200	ϵ_r	35.89	36.00	-0.31	± 5	Pass
	σ [S/m]	4.60	4.66	-1.29	± 5	Pass
5800	ϵ_r	36.30	35.30	2.83	± 5	Pass
	σ [S/m]	5.42	5.27	2.85	± 5	Pass

Note: For DASY system, the conservative tolerance 5% could expand to 10% when the frequency under 3GHz

A system check measurement was made following once the determination of the dielectric parameters of the simulant, using the dipole validation kit. The system checking results (dielectric parameters and SAR values) are given in the table below.

System dipole	SAR measured (normalized to 1W)		Target (Ref. Value)	Delta (%)	Tolerance (%)	Verdict
	1g	8.44				
D750V3	1g	8.44	8.40	0.48	± 10	Pass
D835V2	1g	9.33	9.38	-0.53	± 10	Pass
D1800V2	1g	39.58	38.90	1.75	± 10	Pass
D2000V2	1g	42.18	41.00	2.88	± 10	Pass
D2450V2	1g	54.34	53.00	2.53	± 10	Pass
D2600V2	1g	58.41	56.50	3.38	± 10	Pass
D5200V2	1g	77.03	75.9	1.49	± 10	Pass
D5800V2	1g	76.25	78.5	-2.87	± 10	Pass

6.5 SAR TEST RESULT

In order to determine the largest value of the peak spatial-average SAR of a handset, all device positions, configurations, and operational modes should be tested for each frequency band according to Steps 1 to 3 below.

Step 1: The tests should be performed at the channel that is closest to the center of the transmit frequency band.

- a) All device positions (cheek and tilt, for both left and right sides of the SAM phantom),
- b) All configurations for each device position in a), e.g., antenna extended and retracted, and
- c) All operational modes for each device position in item a) and configuration in item b) in each frequency band, e.g., analog and digital, If more than three frequencies need to be tested (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 the highest peak spatial-average SAR determined in Step 1 for each frequency, perform all tests at all other test frequency channels, e.g., 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 within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies should be tested as well.

Step 3: Examine all data to determine the largest value of the peak.

Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Duty Factor = 1 / Duty Cycle (%)

For cellular network:

Reported SAR (W/kg) = Measured SAR (W/kg) * Scaling Factor

For WLAN

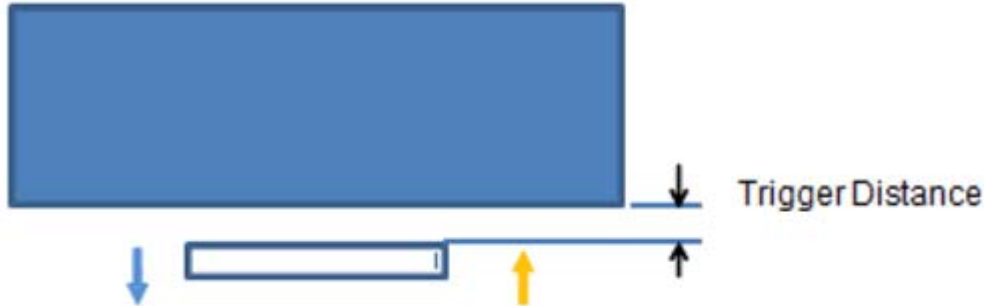
Reported SAR (W/kg) = Measured SAR (W/kg) * Scaling Factor * Duty factor

2. Per KDB 447498 D01v06, for each exposure position, if the highest output channel reported SAR ≤ 0.8 W/kg, other channels SAR testing are not necessary.
3. The distance between the EUT and the phantom bottom is 0mm.

Refers to KDB 616217 D04 Section6 procedure for determining triggering distances/ sensor coverage/ tilt angle influences

Note: the furthest detection distance of sensor is greater than trigger distance (with power reduction) to avoid the uncertainty, when the backlight off (not intend to use), sensor remain previous state, and manufacturer reserves the right to interpret.

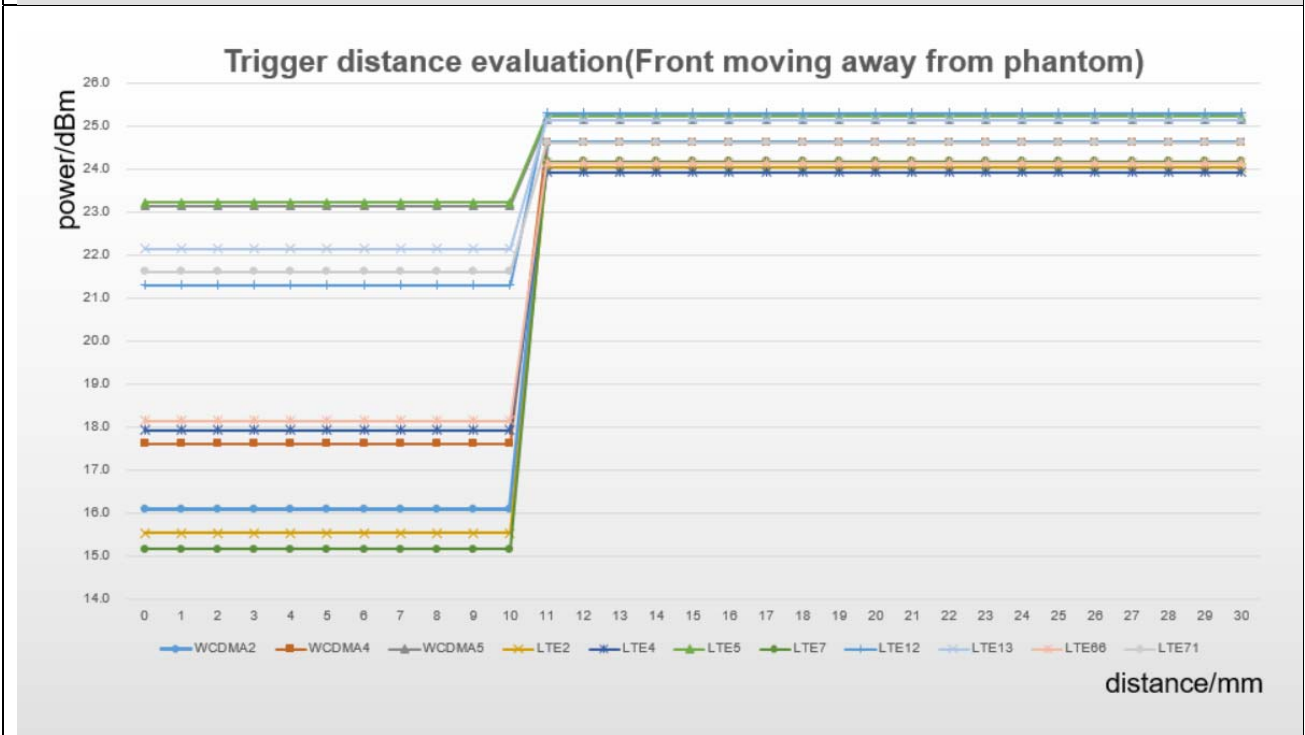
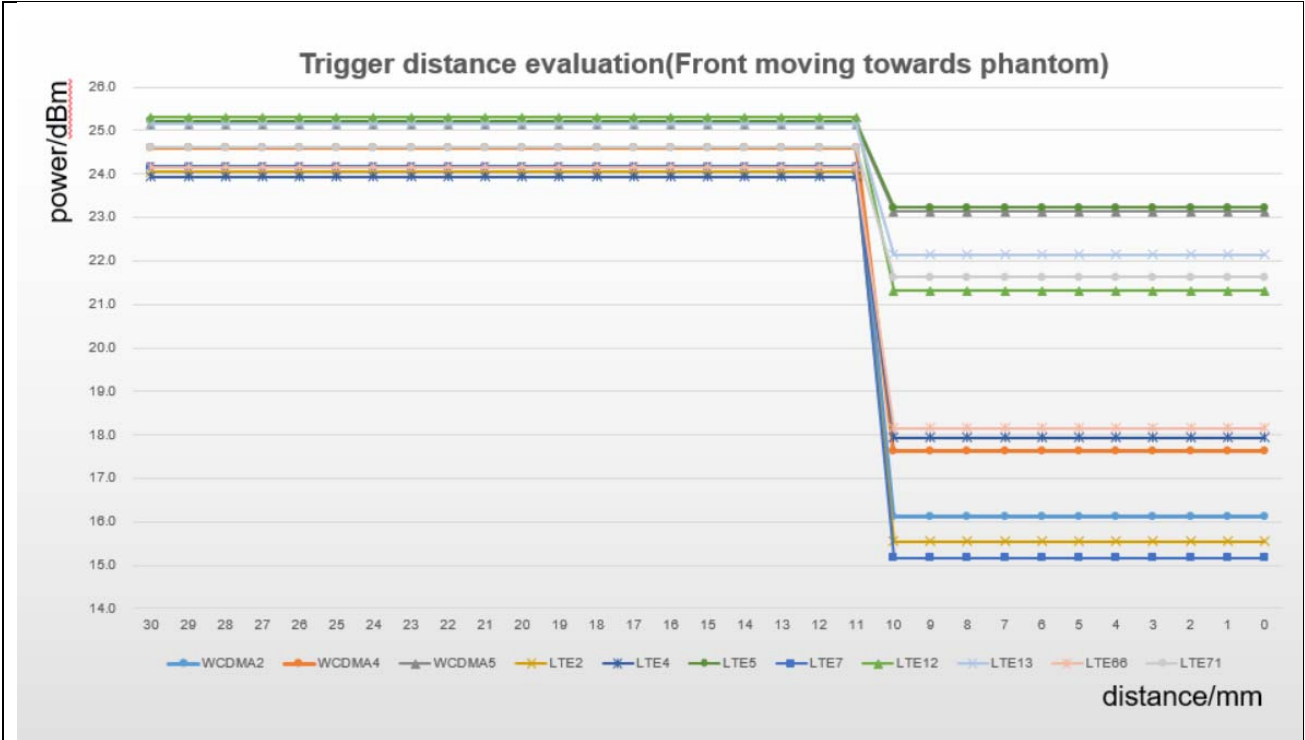
1: Proximity sensor triggering distances

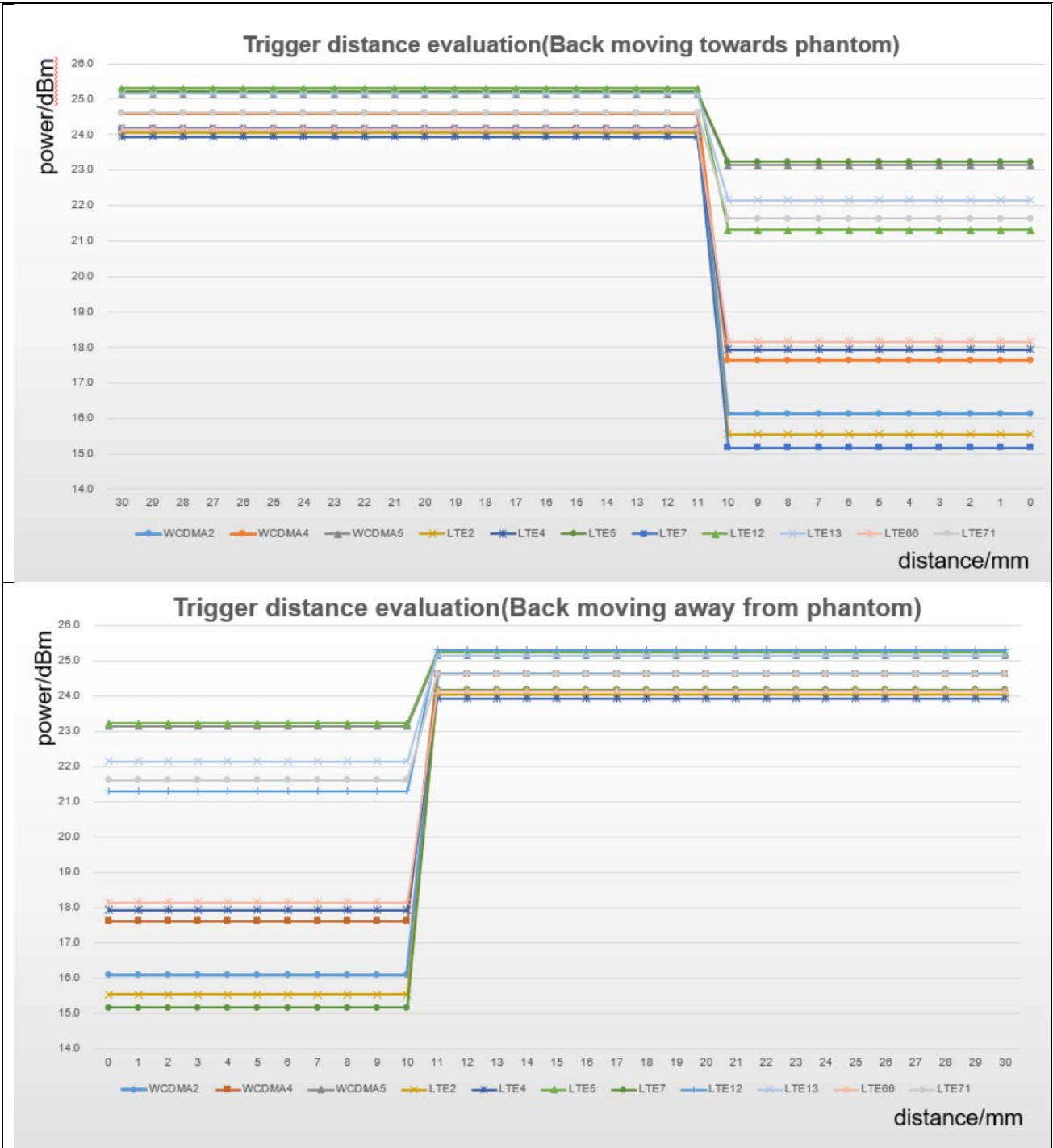


Band	Trigger distance -Front Side		Trigger distance -Back Side		Trigger distance -Top Side	
	Moving toward phantom	Moving away from phantom	Moving toward phantom	Moving away from phantom	Moving toward phantom	Moving away from phantom
W2	10	10	10	10	10	10
W4	10	10	10	10	10	10
W5	10	10	10	10	10	10
L2	10	10	10	10	10	10
L4	10	10	10	10	10	10
L5	10	10	10	10	10	10
L7	10	10	10	10	10	10
L12	10	10	10	10	10	10
L13	10	10	10	10	10	10
L66	10	10	10	10	10	10

Band	Trigger distance -Front Side		Trigger distance -Back Side		Trigger distance -Right Side	
	Moving toward phantom	Moving away from phantom	Moving toward phantom	Moving away from phantom	Moving toward phantom	Moving away from phantom
2.4GHz	10	10	10	10	10	10
5GHz-UNII-1	10	10	10	10	10	10
5GHz-UNII-3	10	10	10	10	10	10

WWAN

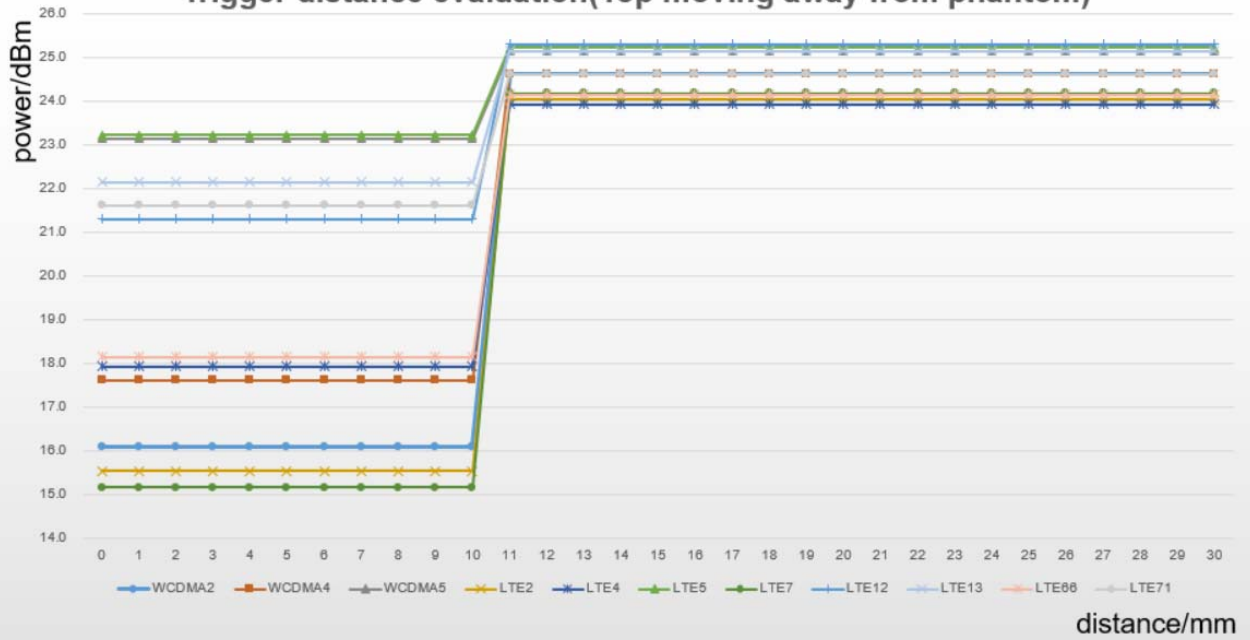




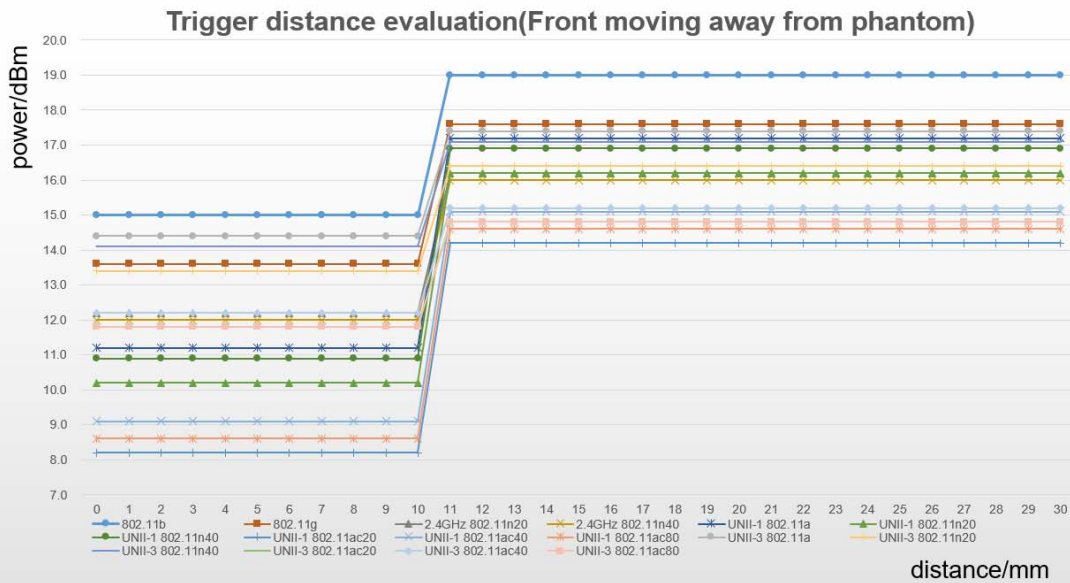
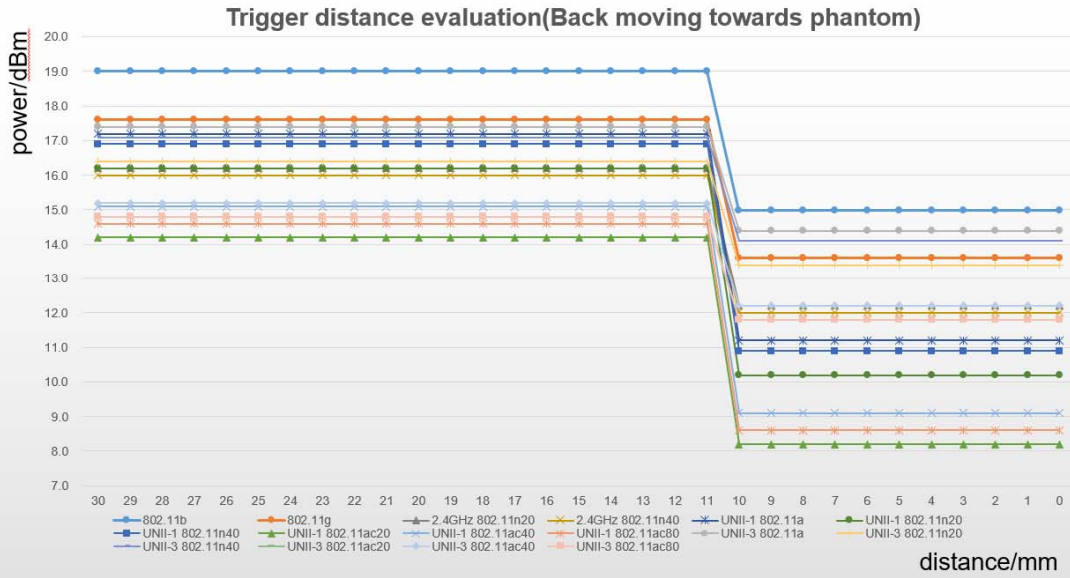
Trigger distance evaluation(Top moving towards phantom)



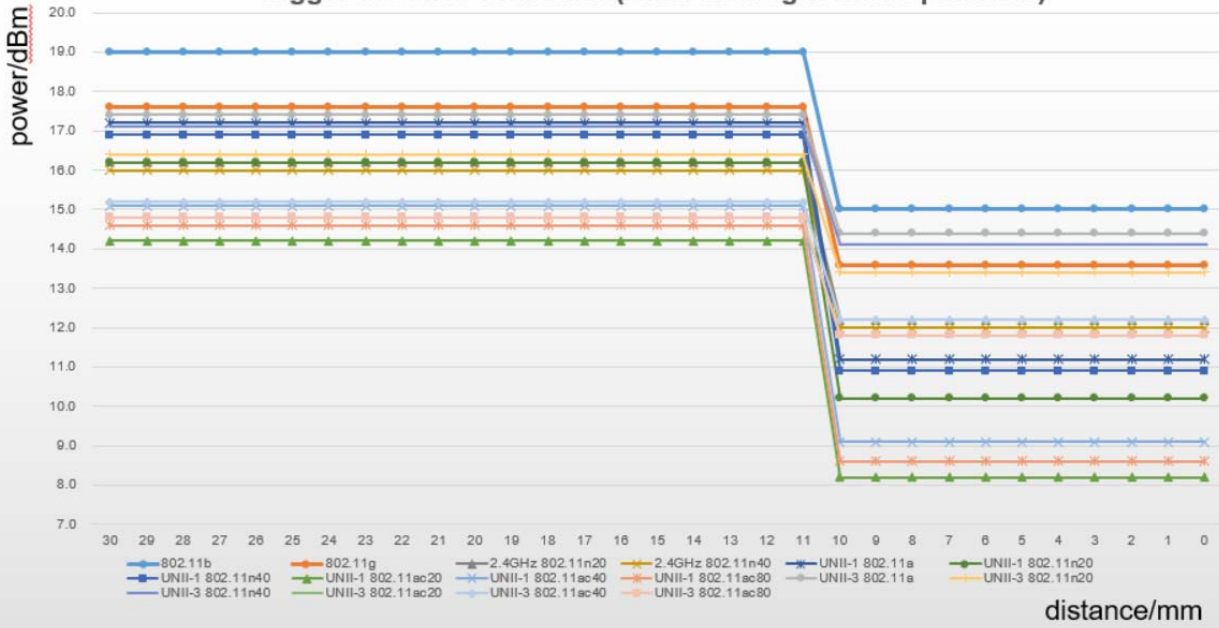
Trigger distance evaluation(Top moving away from phantom)



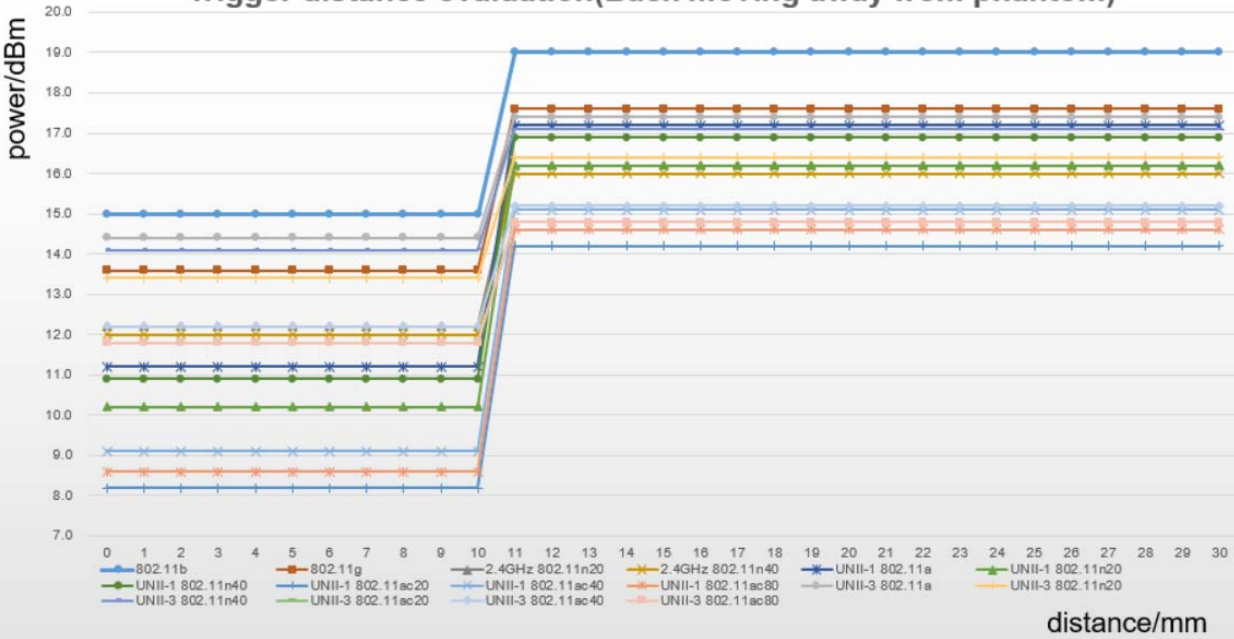
WLAN

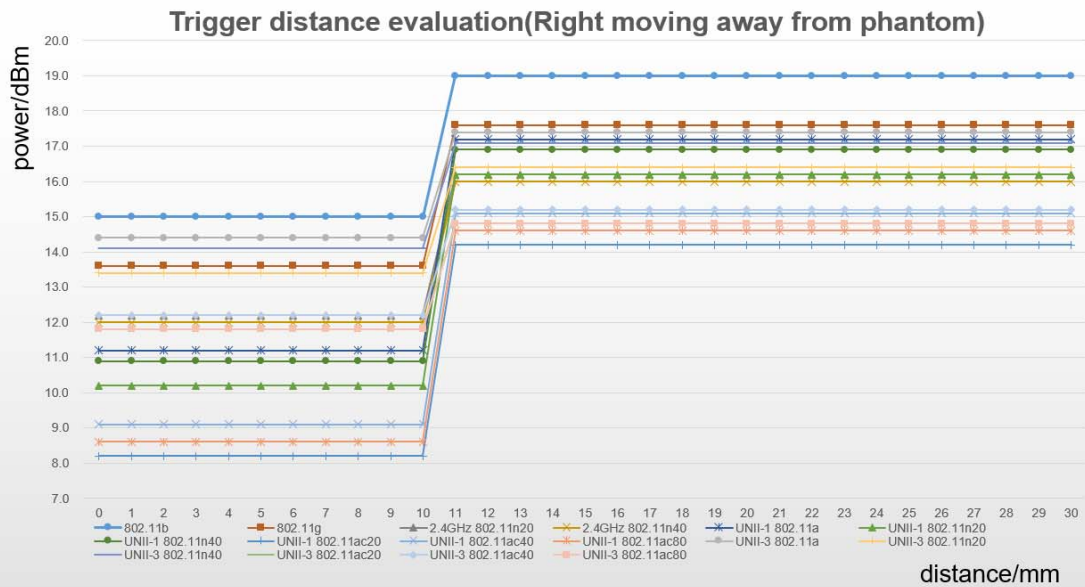
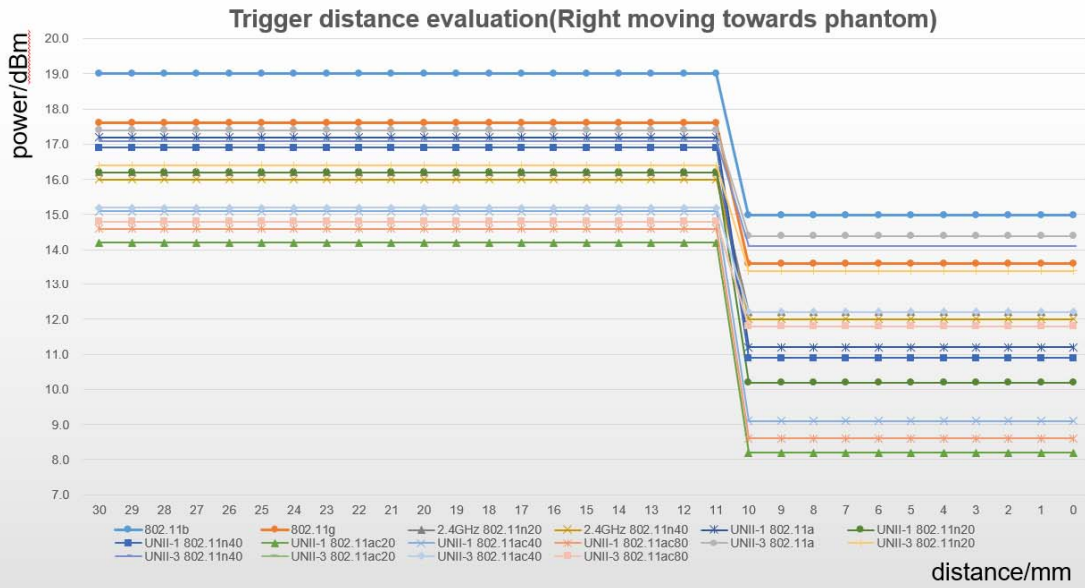


Trigger distance evaluation(Back moving towards phantom)



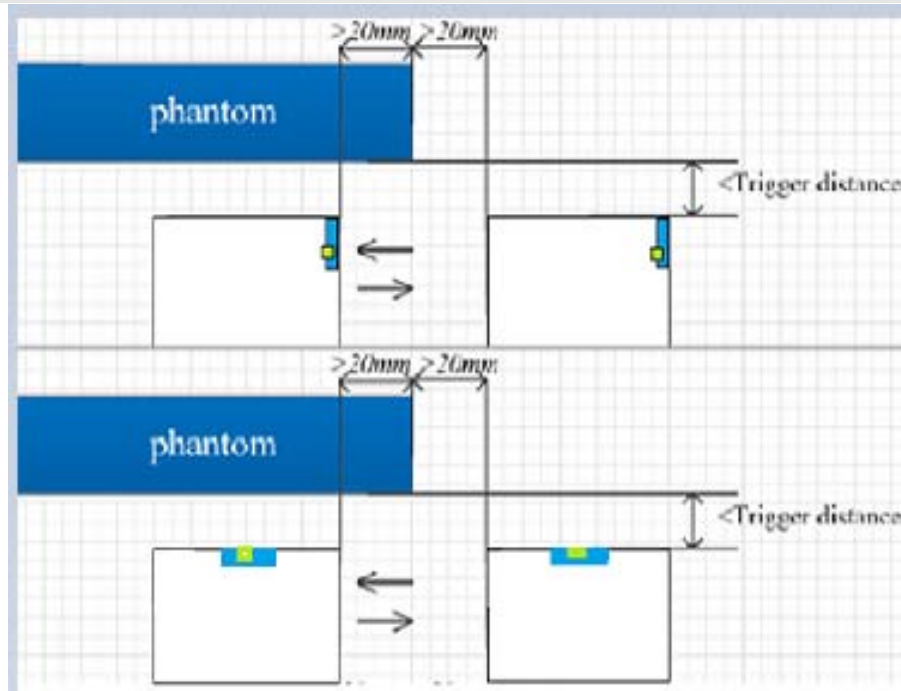
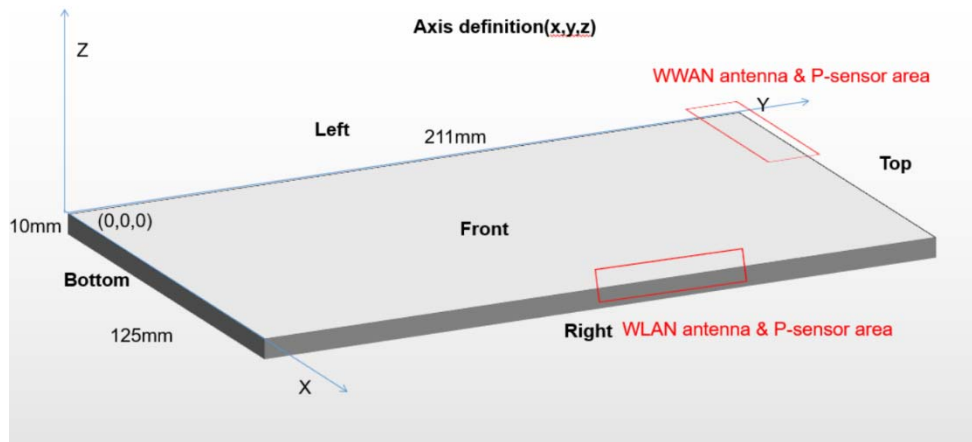
Trigger distance evaluation(Back moving away from phantom)



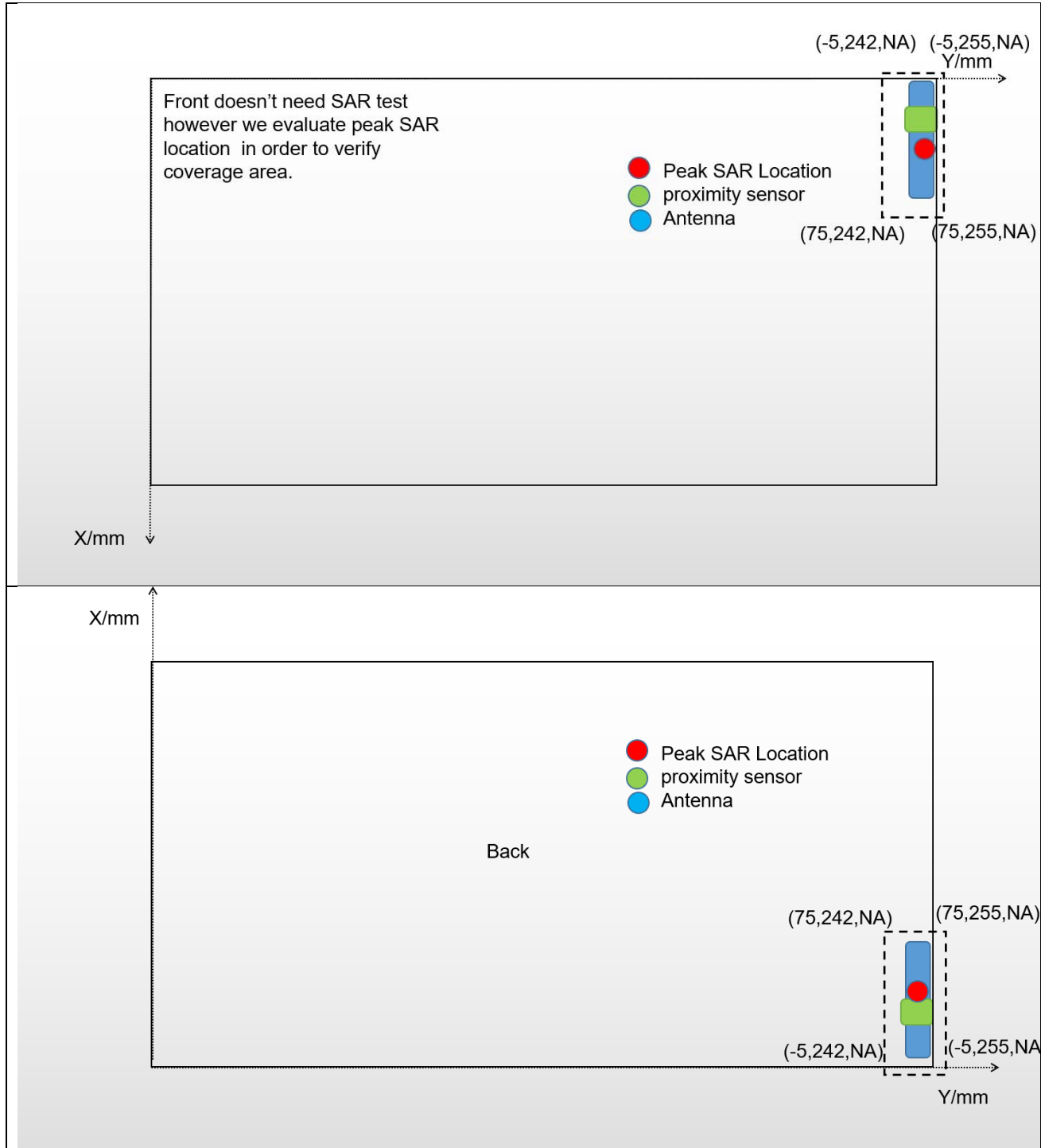


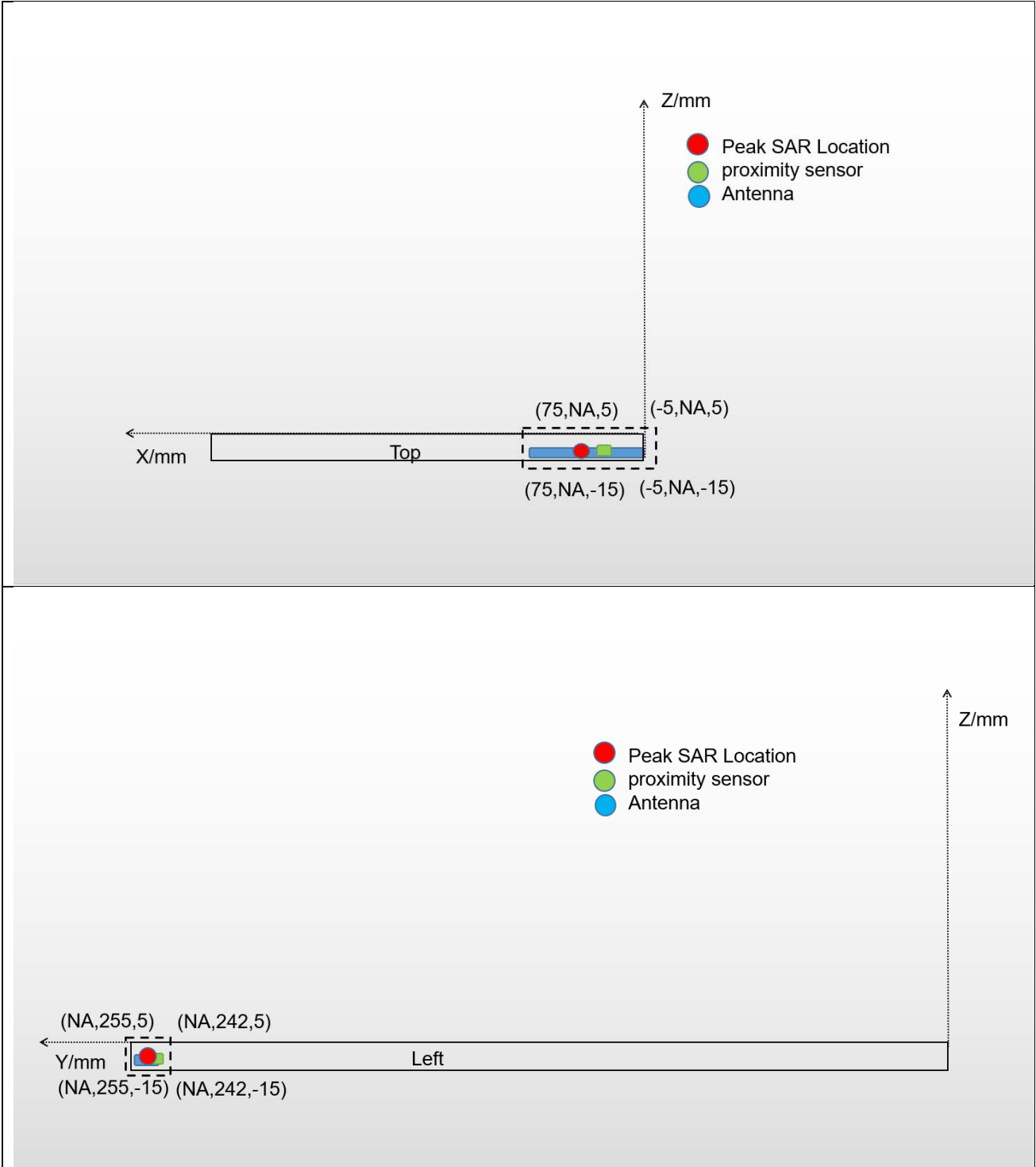
2: Proximity sensor coverage

Proximity sensor cannot fully overwrite antenna (physically), so the proximity sensor coverage need to be assessed. There is tiny difference of peak SAR location of each frequency band but at least the sensor trigger coverage area contain peak SAR.

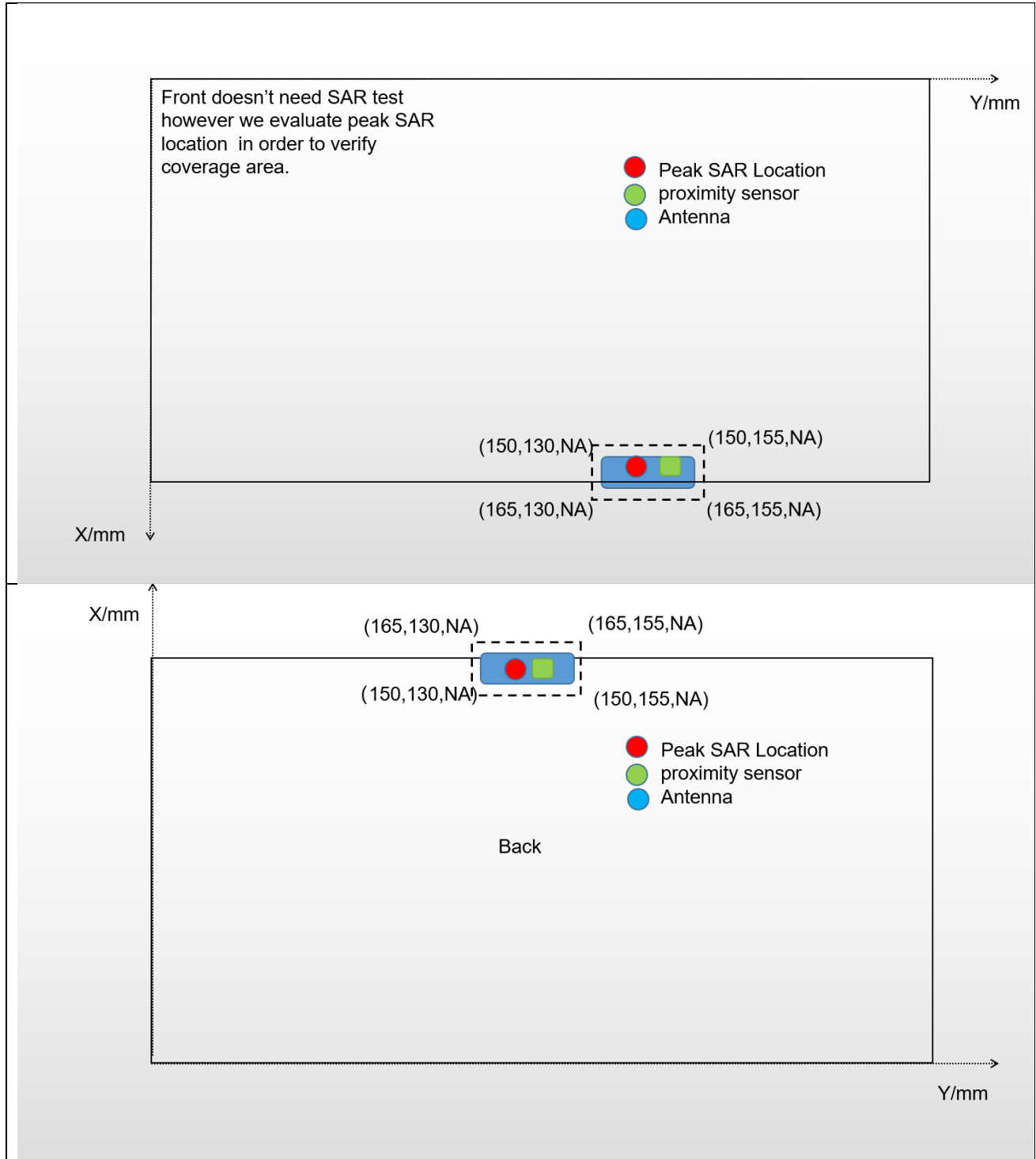


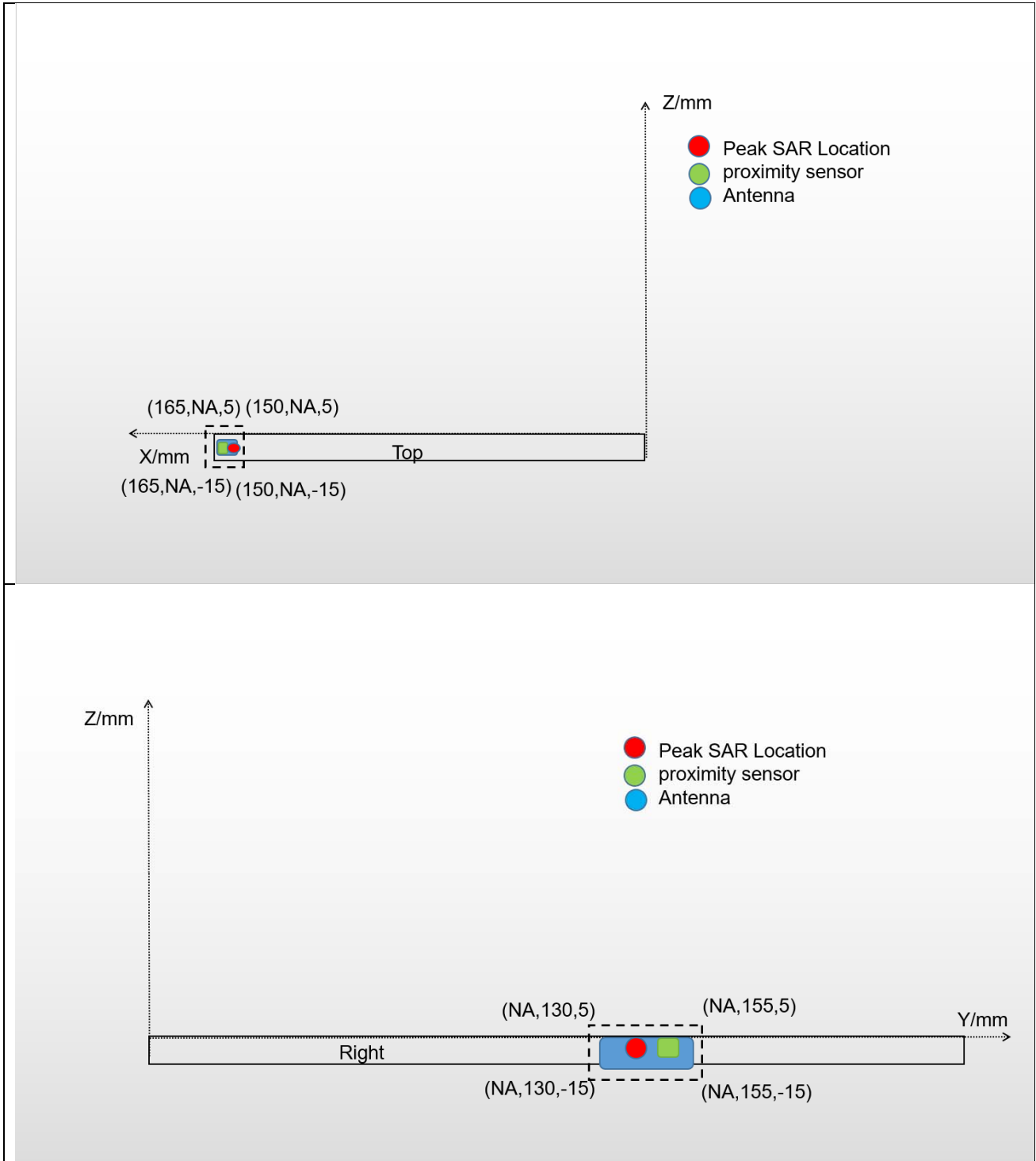
WWAN



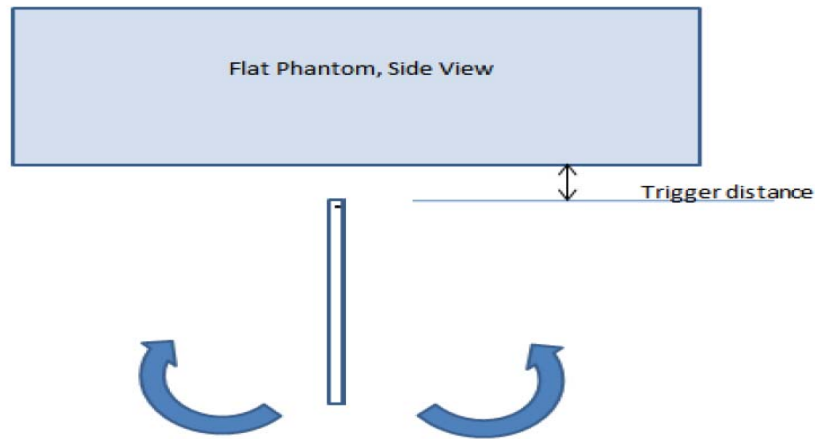


WLAN





3: Tilt angle influences to proximity sensor triggering



Position	Band(MHz)	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Top	W2	10	on	on	on	on	on	on	on	on	on	on	on
	W4	10	on	on	on	on	on	on	on	on	on	on	on
	W5	10	on	on	on	on	on	on	on	on	on	on	on
	L2	10	on	on	on	on	on	on	on	on	on	on	on
	L4	10	on	on	on	on	on	on	on	on	on	on	on
	L5	10	on	on	on	on	on	on	on	on	on	on	on
	L7	10	on	on	on	on	on	on	on	on	on	on	on
	L12	10	on	on	on	on	on	on	on	on	on	on	on
	L13	10	on	on	on	on	on	on	on	on	on	on	on
	L66	10	on	on	on	on	on	on	on	on	on	on	on
L71	10	on	on	on	on	on	on	on	on	on	on	on	
Left	W2	10	on	on	on	on	on	on	on	on	on	on	on
	W4	10	on	on	on	on	on	on	on	on	on	on	on
	W5	10	on	on	on	on	on	on	on	on	on	on	on
	L2	10	on	on	on	on	on	on	on	on	on	on	on
	L4	10	on	on	on	on	on	on	on	on	on	on	on
	L5	10	on	on	on	on	on	on	on	on	on	on	on
	L7	10	on	on	on	on	on	on	on	on	on	on	on
	L12	10	on	on	on	on	on	on	on	on	on	on	on
	L13	10	on	on	on	on	on	on	on	on	on	on	on
	L66	10	on	on	on	on	on	on	on	on	on	on	on
L71	10	on	on	on	on	on	on	on	on	on	on	on	

Position	Band(MHz)	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
Right	2.4GHz	10	on	on	on	on	on	on	on	on	on	on	on	on
	2.4GHz	10	on	on	on	on	on	on	on	on	on	on	on	on

Proximity sensor Power Reduction Scheme

Mode	Power reduction symbol	Power reduction amount(dB)	Note
WWAN	D0	0	Full power
	D1	2	Reduced power
	D2	3	
	D3	4	
	D4	6	
	D5	7	
	D6	8.5	
	D7	9	
WLAN	d0	0	Full power
	d1	3	Reduced power
	d2	4	
	d3	6	

WWAN antenna				
Mode	Test position	Sensor Trigger	Band	Power
		Distance range(DUT to Phantom)	Frequency Range	Reduction symbol
Cellular	Back side	$0 \leq \text{distance} \leq 10\text{mm}$	WCDMA B2/LTE B2	D6
			WCDMA B4	D5
			LTE B4/B66	D4
			WCDMA B5/LTE B5	D1
			LTE B7	D7
			LTE B12	D3
			LTE B13	D2
			LTE B71	
		$10 < \text{distance}$	ALL	D0
		Front side	$0 \leq \text{distance} \leq 10\text{mm}$	WCDMA B2/LTE B2
	WCDMA B4			D5
	LTE B4/B66			D4
	WCDMA B5/LTE B5			D1
	LTE B7			D7
	LTE B12			D3
	LTE B13			D2
	LTE B71			
	$10 < \text{distance}$		ALL	D0
	Top side		$0 \leq \text{distance} \leq 10\text{mm}$	WCDMA B2/LTE B2
		WCDMA B4		D5
		LTE B4/B66		D4
		WCDMA B5/LTE B5		D1
		LTE B7		D7
		LTE B12		D3
		LTE B13		D2
		LTE B71		
		$10 < \text{distance}$	ALL	D0
		Bottom side	ALL	ALL
	Left side	ALL	ALL	D0
	Right side	ALL	ALL	D0

WLAN antenna				
Mode	Test position	Sensor Trigger	Band	Power
		Distance range(DUT to Phantom)	Frequency Range	Reduction symbol
WIFI	Back side	$0 \leq \text{distance} \leq 10\text{mm}$	2.4GHz WIFI	d2
			5GHz UNII-1	d3
			5GHz UNII-3	d1
		$10 < \text{distance}$	ALL	d0
	Front side	$0 \leq \text{distance} \leq 10\text{mm}$	2.4GHz WIFI	d2
			5GHz UNII-1	d3
			5GHz UNII-3	d1
		$10 < \text{distance}$	ALL	d0
	Top side	ALL	ALL	d0
	Bottom side	ALL	ALL	d0
	Left side	ALL	ALL	d0
	Right side	$0 \leq \text{distance} \leq 10\text{mm}$	2.4GHz WIFI	d2
			5GHz UNII-1	d3
			5GHz UNII-3	d1
$10 < \text{distance}$		ALL	d0	

The measured and reported body SAR values for the test device are tabulated below: Power reduction scheme works well under trigger distance when product unit suddenly approach or away from torso, and SRTC also evaluated the SAR value under separation distance equal to trigger distance-1 (different for each surface) with full power mode, there is no risk for this condition and 0mm is the worst case.

Mode: WCDMA BAND II

fL (MHz)= 1852.4MHz fM (MHz)= 1880.0MHz fH (MHz)= 1907.6MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
RMC	Body	Back	L	16.02	16.50	1.12	---	---	---	---
			M	16.11	16.50	1.09	0.65	---	0.71	---
			H	16.09	16.50	1.10	---	---	---	---
		Front	L	24.52	25.00	1.12	---	---	---	---
			M	24.61	25.00	1.09	---	---	---	---
			H	24.59	25.00	1.10	---	---	---	---
		Top	L	16.02	16.50	1.12	0.80	0.80	0.90	0.89
			M	16.11	16.50	1.09	0.83	0.83	0.91	0.90
			H	16.09	16.50	1.10	0.82	0.81	0.90	0.89
		Bottom	L	24.52	25.00	1.12	---	---	---	---
			M	24.61	25.00	1.09	---	---	---	---
			H	24.59	25.00	1.10	---	---	---	---
		Left	L	24.52	25.00	1.12	---	---	---	---
			M	24.61	25.00	1.09	0.01	---	0.01	---
			H	24.59	25.00	1.10	---	---	---	---
		Right	L	24.52	25.00	1.12	---	---	---	---
			M	24.61	25.00	1.09	---	---	---	---
			H	24.59	25.00	1.10	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
RMC	Body	Back	L	24.52	25.00	1.12	0.81	0.78	0.91	0.87
			M	24.61	25.00	1.09	0.89	0.87	0.97	0.95
			H	24.59	25.00	1.10	0.87	0.84	0.96	0.92
		Front	L	24.52	25.00	1.12	---	---	---	---
			M	24.61	25.00	1.09	---	---	---	---
			H	24.59	25.00	1.10	---	---	---	---
		Top	L	24.52	25.00	1.12	0.92	0.89	1.03	1.00
			M	24.61	25.00	1.09	1.10	1.02	1.20	1.11
			H	24.59	25.00	1.10	0.95	0.92	1.05	1.01
		Bottom	L	24.52	25.00	1.12	---	---	---	---
			M	24.61	25.00	1.09	---	---	---	---
			H	24.59	25.00	1.10	---	---	---	---
		Left	L	24.52	25.00	1.12	---	---	---	---
			M	24.61	25.00	1.09	0.06	---	0.07	---
			H	24.59	25.00	1.10	---	---	---	---
		Right	L	24.52	25.00	1.12	---	---	---	---
			M	24.61	25.00	1.09	---	---	---	---
			H	24.59	25.00	1.10	---	---	---	---

Mode: WCDMA BAND IV

fL (MHz)=1712.4MHz fM (MHz)=1732.4MHz fH (MHz)= 1752.6MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
RMC	Body	Back	L	17.61	18.00	1.09	0.94	0.93	1.03	1.02
			M	17.62	18.00	1.09	0.95	0.94	1.03	1.03
			H	17.79	18.00	1.05	0.95	0.94	1.00	0.99
		Front	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.79	25.00	1.05	---	---	---	---
		Top	L	17.61	18.00	1.09	1.01	1.00	1.10	1.09
			M	17.62	18.00	1.09	1.04	1.03	1.13	1.12
			H	17.79	18.00	1.05	1.03	1.02	1.08	1.07
		Bottom	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.79	25.00	1.05	---	---	---	---
		Left	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	0.07	---	0.07	---
			H	24.79	25.00	1.05	---	---	---	---
		Right	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.79	25.00	1.05	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
RMC	Body	Back	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	0.68	---	0.75	---
			H	24.79	25.00	1.05	---	---	---	---
		Front	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.79	25.00	1.05	---	---	---	---
		Top	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	0.72	---	0.79	---
			H	24.79	25.00	1.05	---	---	---	---
		Bottom	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.79	25.00	1.05	---	---	---	---
		Left	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	0.08	---	0.09	---
			H	24.79	25.00	1.05	---	---	---	---
		Right	L	24.61	25.00	1.09	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.79	25.00	1.05	---	---	---	---

Mode: WCDMA BAND V

fL (MHz)=826.4MHz fM (MHz)=836.4MHz fH (MHz)= 846.6MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
RMC	Body	Back	L	22.91	23.50	1.15	---	---	---	---
			M	23.14	23.50	1.09	0.78	---	0.84	---
			H	23.10	23.50	1.10	---	---	---	---
		Front	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	25.10	25.50	1.10	---	---	---	---
		Top	L	22.91	23.50	1.15	---	---	---	---
			M	23.14	23.50	1.09	0.76	---	0.83	---
			H	23.10	23.50	1.10	---	---	---	---
		Bottom	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	25.10	25.50	1.10	---	---	---	---
		Left	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	0.47	---	0.51	---
			H	25.10	25.50	1.10	---	---	---	---
		Right	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	25.10	25.50	1.10	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
RMC	Body	Back	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	0.48	---	0.52	---
			H	25.10	25.50	1.10	---	---	---	---
		Front	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	25.10	25.50	1.10	---	---	---	---
		Top	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	0.18	---	0.20	---
			H	25.10	25.50	1.10	---	---	---	---
		Bottom	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	25.10	25.50	1.10	---	---	---	---
		Left	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	0.19	---	0.20	---
			H	25.10	25.50	1.10	---	---	---	---
		Right	L	24.91	25.50	1.15	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	25.10	25.50	1.10	---	---	---	---

Mode: LTE Band 2

fL (MHz)= 1860MHz

fM (MHz)= 1880MHz

fH (MHz)= 1900MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	MeasSAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	15.26	16.00	1.19	---	---	---	---
			M	15.54	16.00	1.11	0.74	---	0.82	---
			H	15.23	16.00	1.19	---	---	---	---
		Front	L	23.76	24.50	1.19	---	---	---	---
			M	24.04	24.50	1.11	---	---	---	---
			H	23.73	24.50	1.19	---	---	---	---
		Top	L	15.26	16.00	1.19	0.85	0.81	1.01	0.96
			M	15.54	16.00	1.11	0.94	0.93	1.04	1.03
			H	15.23	16.00	1.19	0.86	0.85	1.02	1.01
		Bottom	L	23.76	24.50	1.19	---	---	---	---
			M	24.04	24.50	1.11	---	---	---	---
			H	23.73	24.50	1.19	---	---	---	---
		Left	L	23.76	24.50	1.19	---	---	---	---
			M	24.04	24.50	1.11	0.04	---	0.05	---
			H	23.73	24.50	1.19	---	---	---	---
		Right	L	23.76	24.50	1.19	---	---	---	---
			M	24.04	24.50	1.11	---	---	---	---
			H	23.73	24.50	1.19	---	---	---	---
QPSK 50%RB	Body	Back	L	15.06	15.50	1.11	---	---	---	---
			M	15.13	15.50	1.09	0.71	---	0.77	---
			H	15.12	15.50	1.09	---	---	---	---
		Front	L	23.56	24.00	1.11	---	---	---	---
			M	23.63	24.00	1.09	---	---	---	---
			H	23.62	24.00	1.09	---	---	---	---
		Top	L	15.06	15.50	1.11	0.85	0.84	0.94	0.93
			M	15.13	15.50	1.09	0.89	0.88	0.97	0.96
			H	15.12	15.50	1.09	0.86	0.85	0.94	0.93
		Bottom	L	23.56	24.00	1.11	---	---	---	---
			M	23.63	24.00	1.09	---	---	---	---
			H	23.62	24.00	1.09	---	---	---	---
		Left	L	23.56	24.00	1.11	---	---	---	---
			M	23.63	24.00	1.09	0.03	---	0.04	---
			H	23.62	24.00	1.09	---	---	---	---
Right	L	23.56	24.00	1.11	---	---	---	---		
	M	23.63	24.00	1.09	---	---	---	---		
	H	23.62	24.00	1.09	---	---	---	---		
QPSK 100%RB	Body	Back	L	14.10	14.50	1.10	---	---	---	---
			M	14.25	14.50	1.06	0.68	---	0.72	---
			H	14.18	14.50	1.08	---	---	---	---

		Front	L	22.60	23.00	1.10	---	---	---	---
			M	22.75	23.00	1.06	---	---	---	---
			H	22.68	23.00	1.08	---	---	---	---
		Top	L	14.10	14.50	1.10	---	---	---	---
			M	14.25	14.50	1.06	0.77	---	0.81	---
			H	14.18	14.50	1.08	---	---	---	---
		Bottom	L	22.60	23.00	1.10	---	---	---	---
			M	22.75	23.00	1.06	---	---	---	---
			H	22.68	23.00	1.08	---	---	---	---
		Left	L	22.60	23.00	1.10	---	---	---	---
			M	22.75	23.00	1.06	0.03	---	0.03	---
			H	22.68	23.00	1.08	---	---	---	---
		Right	L	22.60	23.00	1.10	---	---	---	---
			M	22.75	23.00	1.06	---	---	---	---
			H	22.68	23.00	1.08	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	MeasSAR(w/kg)		Report SAR(w/kg)			
Mode	Exposure condition	Position	Channel				First	Second	First	Second		
QPSK 1RB	Body	Back	L	23.76	24.50	1.19	---	---	---	---		
			M	24.04	24.50	1.11	0.73	---	0.81	---		
			H	23.73	24.50	1.19	---	---	---	---		
		Front	L	23.76	24.50	1.19	---	---	---	---		
			M	24.04	24.50	1.11	---	---	---	---		
			H	23.73	24.50	1.19	---	---	---	---		
		Top	L	23.76	24.50	1.19	0.81	0.78	0.96	0.93		
			M	24.04	24.50	1.11	0.88	0.87	0.98	0.97		
			H	23.73	24.50	1.19	0.80	0.75	0.95	0.89		
		Bottom	L	23.76	24.50	1.19	---	---	---	---		
			M	24.04	24.50	1.11	---	---	---	---		
			H	23.73	24.50	1.19	---	---	---	---		
		Left	L	23.76	24.50	1.19	---	---	---	---		
			M	24.04	24.50	1.11	0.05	---	0.06	---		
			H	23.73	24.50	1.19	---	---	---	---		
		Right	L	23.76	24.50	1.19	---	---	---	---		
			M	24.04	24.50	1.11	---	---	---	---		
			H	23.73	24.50	1.19	---	---	---	---		
		QPSK 50%RB	Body	Back	L	23.56	24.00	1.11	---	---	---	---
					M	23.63	24.00	1.09	0.70	---	0.76	---
					H	23.62	24.00	1.09	---	---	---	---
				Front	L	23.56	24.00	1.11	---	---	---	---
					M	23.63	24.00	1.09	---	---	---	---
					H	23.62	24.00	1.09	---	---	---	---
Top	L			23.56	24.00	1.11	---	---	---	---		
	M			23.63	24.00	1.09	0.79	---	0.86	---		
	H			23.62	24.00	1.09	---	---	---	---		
Bottom	L			23.56	24.00	1.11	---	---	---	---		
	M			23.63	24.00	1.09	---	---	---	---		
	H			23.62	24.00	1.09	---	---	---	---		
Left	L			23.56	24.00	1.11	---	---	---	---		
	M			23.63	24.00	1.09	0.05	---	0.06	---		
	H			23.62	24.00	1.09	---	---	---	---		
Right	L	23.56	24.00	1.11	---	---	---	---				
	M	23.63	24.00	1.09	---	---	---	---				
	H	23.62	24.00	1.09	---	---	---	---				

Mode: LTE Band 4

fL (MHz)= 1720MHz fM (MHz)= 1732.5MHz fH (MHz)= 1745MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)			
Mode	Exposure condition	Position	Channel				First	Second	First	Second		
QPSK 1RB	Body	Back	L	17.63	18.50	1.22	---	---	---	---		
			M	17.93	18.50	1.14	0.79	---	0.90	---		
			H	18.05	18.50	1.11	---	---	---	---		
		Front	L	23.63	24.50	1.22	---	---	---	---		
			M	23.93	24.50	1.14	---	---	---	---		
			H	24.05	24.50	1.11	---	---	---	---		
		Top	L	17.63	18.50	1.22	0.78	0.76	0.95	0.93		
			M	17.93	18.50	1.14	0.88	0.87	1.00	0.99		
			H	18.05	18.50	1.11	0.85	0.81	0.94	0.90		
		Bottom	L	23.63	24.50	1.22	---	---	---	---		
			M	23.93	24.50	1.14	---	---	---	---		
			H	24.05	24.50	1.11	---	---	---	---		
		Left	L	23.63	24.50	1.22	---	---	---	---		
			M	23.93	24.50	1.14	0.07	---	0.08	---		
			H	24.05	24.50	1.11	---	---	---	---		
		Right	L	23.63	24.50	1.22	---	---	---	---		
			M	23.93	24.50	1.14	---	---	---	---		
			H	24.05	24.50	1.11	---	---	---	---		
		QPSK 50%RB	Body	Back	L	17.35	18.00	1.16	---	---	---	---
					M	17.58	18.00	1.10	0.75	---	0.83	---
					H	17.81	18.00	1.04	---	---	---	---
				Front	L	23.35	24.00	1.16	---	---	---	---
					M	23.58	24.00	1.10	---	---	---	---
					H	23.81	24.00	1.04	---	---	---	---
Top	L			17.35	18.00	1.16	---	---	---	---		
	M			17.58	18.00	1.10	0.79	---	0.87	---		
	H			17.81	18.00	1.04	---	---	---	---		
Bottom	L			23.35	24.00	1.16	---	---	---	---		
	M			23.58	24.00	1.10	---	---	---	---		
	H			23.81	24.00	1.04	---	---	---	---		
Left	L			23.35	24.00	1.16	---	---	---	---		
	M			23.58	24.00	1.10	0.05	---	0.05	---		
	H			23.81	24.00	1.04	---	---	---	---		
Right	L			23.35	24.00	1.16	---	---	---	---		
	M			23.58	24.00	1.10	---	---	---	---		
	H			23.81	24.00	1.04	---	---	---	---		

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	23.63	24.50	1.22	---	---	---	---
			M	23.93	24.50	1.14	0.57	---	0.65	---
			H	24.05	24.50	1.11	---	---	---	---
		Front	L	23.63	24.50	1.22	---	---	---	---
			M	23.93	24.50	1.14	---	---	---	---
			H	24.05	24.50	1.11	---	---	---	---
		Top	L	23.63	24.50	1.22	---	---	---	---
			M	23.93	24.50	1.14	0.61	---	0.70	---
			H	24.05	24.50	1.11	---	---	---	---
		Bottom	L	23.63	24.50	1.22	---	---	---	---
			M	23.93	24.50	1.14	---	---	---	---
			H	24.05	24.50	1.11	---	---	---	---
		Left	L	23.63	24.50	1.22	---	---	---	---
			M	23.93	24.50	1.14	0.07	---	0.08	---
			H	24.05	24.50	1.11	---	---	---	---
		Right	L	23.63	24.50	1.22	---	---	---	---
			M	23.93	24.50	1.14	---	---	---	---
			H	24.05	24.50	1.11	---	---	---	---
QPSK 50%RB	Body	Back	L	23.35	24.00	1.16	---	---	---	---
			M	23.58	24.00	1.10	0.52	---	0.57	---
			H	23.81	24.00	1.04	---	---	---	---
		Front	L	23.35	24.00	1.16	---	---	---	---
			M	23.58	24.00	1.10	---	---	---	---
			H	23.81	24.00	1.04	---	---	---	---
		Top	L	23.35	24.00	1.16	---	---	---	---
			M	23.58	24.00	1.10	0.57	---	0.63	---
			H	23.81	24.00	1.04	---	---	---	---
		Bottom	L	23.35	24.00	1.16	---	---	---	---
			M	23.58	24.00	1.10	---	---	---	---
			H	23.81	24.00	1.04	---	---	---	---
		Left	L	23.35	24.00	1.16	---	---	---	---
			M	23.58	24.00	1.10	0.04	---	0.04	---
			H	23.81	24.00	1.04	---	---	---	---
		Right	L	23.35	24.00	1.16	---	---	---	---
			M	23.58	24.00	1.10	---	---	---	---
			H	23.81	24.00	1.04	---	---	---	---

Mode: LTE Band 5

fL (MHz)=829 MHz fM (MHz)=836.5MHz fH (MHz)= 844MHz

Limit of SAR (W/kg) : <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	22.02	23.50	1.41	---	---	---	---
			M	23.23	23.50	1.06	0.58	---	0.62	---
			H	22.82	23.50	1.17	---	---	---	---
		Front	L	24.02	25.50	1.41	---	---	---	---
			M	25.23	25.50	1.06	---	---	---	---
			H	24.82	25.50	1.17	---	---	---	---
		Top	L	22.02	23.50	1.41	---	---	---	---
			M	23.23	23.50	1.06	0.63	---	0.67	---
			H	22.82	23.50	1.17	---	---	---	---
		Bottom	L	24.02	25.50	1.41	---	---	---	---
			M	25.23	25.50	1.06	---	---	---	---
			H	24.82	25.50	1.17	---	---	---	---
		Left	L	24.02	25.50	1.41	---	---	---	---
			M	25.23	25.50	1.06	0.41	---	0.43	---
			H	24.82	25.50	1.17	---	---	---	---
		Right	L	24.02	25.50	1.41	---	---	---	---
			M	25.23	25.50	1.06	---	---	---	---
			H	24.82	25.50	1.17	---	---	---	---
QPSK 50%RB	Body	Back	L	22.03	23.50	1.40	---	---	---	---
			M	23.14	23.50	1.09	0.57	---	0.62	---
			H	22.93	23.50	1.14	---	---	---	---
		Front	L	24.03	25.50	1.40	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	24.93	25.50	1.14	---	---	---	---
		Top	L	22.03	23.50	1.40	---	---	---	---
			M	23.14	23.50	1.09	0.61	---	0.66	---
			H	22.93	23.50	1.14	---	---	---	---
		Bottom	L	24.03	25.50	1.40	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	24.93	25.50	1.14	---	---	---	---
		Left	L	24.03	25.50	1.40	---	---	---	---
			M	25.14	25.50	1.09	0.39	---	0.42	---
			H	24.93	25.50	1.14	---	---	---	---
		Right	L	24.03	25.50	1.40	---	---	---	---
			M	25.14	25.50	1.09	---	---	---	---
			H	24.93	25.50	1.14	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)			
Mode	Exposure condition	Position	Channel				First	Second	First	Second		
QPSK 1RB	Body	Back	L	24.02	25.50	1.41	---	---	---	---		
			M	25.23	25.50	1.06	0.51	---	0.54	---		
			H	24.82	25.50	1.17	---	---	---	---		
		Front	L	24.02	25.50	1.41	---	---	---	---		
			M	25.23	25.50	1.06	---	---	---	---		
			H	24.82	25.50	1.17	---	---	---	---		
		Top	L	24.02	25.50	1.41	---	---	---	---		
			M	25.23	25.50	1.06	0.19	---	0.20	---		
			H	24.82	25.50	1.17	---	---	---	---		
		Bottom	L	24.02	25.50	1.41	---	---	---	---		
			M	25.23	25.50	1.06	---	---	---	---		
			H	24.82	25.50	1.17	---	---	---	---		
		Left	L	24.02	25.50	1.41	---	---	---	---		
			M	25.23	25.50	1.06	0.20	---	0.22	---		
			H	24.82	25.50	1.17	---	---	---	---		
		Right	L	24.02	25.50	1.41	---	---	---	---		
			M	25.23	25.50	1.06	---	---	---	---		
			H	24.82	25.50	1.17	---	---	---	---		
		QPSK 50%RB	Body	Back	L	24.03	25.50	1.40	---	---	---	---
					M	25.14	25.50	1.09	0.46	---	0.50	---
					H	24.93	25.50	1.14	---	---	---	---
				Front	L	24.03	25.50	1.40	---	---	---	---
					M	25.14	25.50	1.09	---	---	---	---
					H	24.93	25.50	1.14	---	---	---	---
Top	L			24.03	25.50	1.40	---	---	---	---		
	M			25.14	25.50	1.09	0.17	---	0.19	---		
	H			24.93	25.50	1.14	---	---	---	---		
Bottom	L			24.03	25.50	1.40	---	---	---	---		
	M			25.14	25.50	1.09	---	---	---	---		
	H			24.93	25.50	1.14	---	---	---	---		
Left	L			24.03	25.50	1.40	---	---	---	---		
	M			25.14	25.50	1.09	0.12	---	0.13	---		
	H			24.93	25.50	1.14	---	---	---	---		
Right	L			24.03	25.50	1.40	---	---	---	---		
	M			25.14	25.50	1.09	---	---	---	---		
	H			24.93	25.50	1.14	---	---	---	---		

Mode: LTE Band 7

fL (MHz)=2510 MHz fM (MHz)=2535MHz fH (MHz)= 2560MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)			
Mode	Exposure condition	Position	Channel				First	Second	First	Second		
QPSK 1RB	Body	Back	L	14.54	15.50	1.25	---	---	---	---		
			M	15.17	15.50	1.08	0.55	---	0.59	---		
			H	14.54	15.50	1.25	---	---	---	---		
		Front	L	23.54	24.50	1.25	---	---	---	---		
			M	24.17	24.50	1.08	---	---	---	---		
			H	23.54	24.50	1.25	---	---	---	---		
		Top	L	14.54	15.50	1.25	1.01	0.99	1.26	1.24		
			M	15.17	15.50	1.08	1.28	1.25	1.38	1.35		
			H	14.54	15.50	1.25	1.02	0.98	1.28	1.23		
		Bottom	L	23.54	24.50	1.25	---	---	---	---		
			M	24.17	24.50	1.08	---	---	---	---		
			H	23.54	24.50	1.25	---	---	---	---		
		Left	L	23.54	24.50	1.25	---	---	---	---		
			M	24.17	24.50	1.08	0.03	---	0.03	---		
			H	23.54	24.50	1.25	---	---	---	---		
		Right	L	23.54	24.50	1.25	---	---	---	---		
			M	24.17	24.50	1.08	---	---	---	---		
			H	23.54	24.50	1.25	---	---	---	---		
		QPSK 50%RB	Body	Back	L	13.58	14.00	1.10	---	---	---	---
					M	13.96	14.00	1.01	0.51	---	0.52	---
					H	13.59	14.00	1.10	---	---	---	---
				Front	L	22.58	23.00	1.10	---	---	---	---
					M	22.96	23.00	1.01	---	---	---	---
					H	22.59	23.00	1.10	---	---	---	---
Top	L			13.58	14.00	1.10	0.81	0.80	0.89	0.88		
	M			13.96	14.00	1.01	0.90	0.88	0.91	0.89		
	H			13.59	14.00	1.10	0.80	0.79	0.88	0.87		
Bottom	L			22.58	23.00	1.10	---	---	---	---		
	M			22.96	23.00	1.01	---	---	---	---		
	H			22.59	23.00	1.10	---	---	---	---		
Left	L			22.58	23.00	1.10	---	---	---	---		
	M			22.96	23.00	1.01	0.02	---	0.02	---		
	H			22.59	23.00	1.10	---	---	---	---		
Right	L			22.58	23.00	1.10	---	---	---	---		
	M			22.96	23.00	1.01	---	---	---	---		
	H			22.59	23.00	1.10	---	---	---	---		
QPSK 100%RB	Body	Back	L	13.66	14.00	1.08	---	---	---	---		
			M	13.92	14.00	1.02	0.48	---	0.49	---		
			H	13.69	14.00	1.07	---	---	---	---		
		Front	L	22.66	23.00	1.08	---	---	---	---		

			M	22.92	23.00	1.02	---	---	---	---
			H	22.69	23.00	1.07	---	---	---	---
		Top	L	13.66	14.00	1.08	0.77	0.76	0.83	0.82
			M	13.92	14.00	1.02	0.82	0.79	0.84	0.81
			H	13.69	14.00	1.07	0.78	0.72	0.83	0.77
		Bottom	L	22.66	23.00	1.08	---	---	---	---
			M	22.92	23.00	1.02	---	---	---	---
			H	22.69	23.00	1.07	---	---	---	---
		Left	L	22.66	23.00	1.08	---	---	---	---
			M	22.92	23.00	1.02	0.01	---	0.01	---
			H	22.69	23.00	1.07	---	---	---	---
		Right	L	22.66	23.00	1.08	---	---	---	---
			M	22.92	23.00	1.02	---	---	---	---
			H	22.69	23.00	1.07	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	23.54	24.50	1.25	---	---	---	---
			M	24.17	24.50	1.08	0.39	---	0.42	---
			H	23.54	24.50	1.25	---	---	---	---
		Front	L	23.54	24.50	1.25	---	---	---	---
			M	24.17	24.50	1.08	---	---	---	---
			H	23.54	24.50	1.25	---	---	---	---
		Top	L	23.54	24.50	1.25	---	---	---	---
			M	24.17	24.50	1.08	0.90	---	0.98	---
			H	23.54	24.50	1.25	---	---	---	---
		Bottom	L	23.54	24.50	1.25	---	---	---	---
			M	24.17	24.50	1.08	---	---	---	---
			H	23.54	24.50	1.25	---	---	---	---
		Left	L	23.54	24.50	1.25	---	---	---	---
			M	24.17	24.50	1.08	0.02	---	0.02	---
			H	23.54	24.50	1.25	---	---	---	---
		Right	L	23.54	24.50	1.25	---	---	---	---
			M	24.17	24.50	1.08	---	---	---	---
			H	23.54	24.50	1.25	---	---	---	---
QPSK 50%RB	Body	Back	L	22.58	23.00	1.10	---	---	---	---
			M	22.96	23.00	1.01	0.28	---	0.28	---
			H	22.59	23.00	1.10	---	---	---	---
		Front	L	22.58	23.00	1.10	---	---	---	---
			M	22.96	23.00	1.01	---	---	---	---
			H	22.59	23.00	1.10	---	---	---	---
		Top	L	22.58	23.00	1.10	---	---	---	---
			M	22.96	23.00	1.01	0.71	---	0.72	---
			H	22.59	23.00	1.10	---	---	---	---
		Bottom	L	22.58	23.00	1.10	---	---	---	---
			M	22.96	23.00	1.01	---	---	---	---
			H	22.59	23.00	1.10	---	---	---	---
		Left	L	22.58	23.00	1.10	---	---	---	---
			M	22.96	23.00	1.01	0.01	---	0.01	---
			H	22.59	23.00	1.10	---	---	---	---
		Right	L	22.58	23.00	1.10	---	---	---	---
			M	22.96	23.00	1.01	---	---	---	---
			H	22.59	23.00	1.10	---	---	---	---

Mode: LTE Band 12

fL (MHz)=704 MHz fM (MHz)=707.5MHz fH (MHz)= 711MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	20.09	21.50	1.38	0.61	0.59	0.84	0.81
			M	21.31	21.50	1.04	0.85	0.84	0.88	0.87
			H	21.22	21.50	1.07	0.82	0.80	0.88	0.86
		Front	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	---	---	---	---
			H	25.22	25.50	1.07	---	---	---	---
		Top	L	20.09	21.50	1.38	---	---	---	---
			M	21.31	21.50	1.04	0.47	---	0.49	---
			H	21.22	21.50	1.07	---	---	---	---
		Bottom	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	---	---	---	---
			H	25.22	25.50	1.07	---	---	---	---
		Left	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	0.23	---	0.24	---
			H	25.22	25.50	1.07	---	---	---	---
		Right	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	---	---	---	---
			H	25.22	25.50	1.07	---	---	---	---
QPSK 50%RB	Body	Back	L	19.33	21.50	1.65	0.50	0.49	0.83	0.81
			M	21.36	21.50	1.03	0.84	0.83	0.87	0.85
			H	21.26	21.50	1.06	0.81	0.79	0.86	0.84
		Front	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	---	---	---	---
			H	25.26	25.50	1.06	---	---	---	---
		Top	L	19.33	21.50	1.65	---	---	---	---
			M	21.36	21.50	1.03	0.43	---	0.44	---
			H	21.26	21.50	1.06	---	---	---	---
		Bottom	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	---	---	---	---
			H	25.26	25.50	1.06	---	---	---	---
		Left	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	0.20	---	0.21	---
			H	25.26	25.50	1.06	---	---	---	---
		Right	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	---	---	---	---
			H	25.26	25.50	1.06	---	---	---	---
QPSK 100%RB	Body	Back	L	19.97	20.50	1.13	0.45	0.44	0.51	0.50
			M	20.18	20.50	1.08	0.80	0.79	0.86	0.85
			H	20.14	20.50	1.09	0.76	0.74	0.83	0.81
		Front	L	23.97	24.50	1.13	---	---	---	---

			M	24.18	24.50	1.08	---	---	---	---
			H	24.14	24.50	1.09	---	---	---	---
		Top	L	19.97	20.50	1.13	---	---	---	---
			M	20.18	20.50	1.08	0.38	---	0.41	---
			H	20.14	20.50	1.09	---	---	---	---
		Bottom	L	23.97	24.50	1.13	---	---	---	---
			M	24.18	24.50	1.08	---	---	---	---
			H	24.14	24.50	1.09	---	---	---	---
		Left	L	23.97	24.50	1.13	---	---	---	---
			M	24.18	24.50	1.08	0.15	---	0.16	---
			H	24.14	24.50	1.09	---	---	---	---
		Right	L	23.97	24.50	1.13	---	---	---	---
			M	24.18	24.50	1.08	---	---	---	---
			H	24.14	24.50	1.09	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	0.43	---	0.45	---
			H	25.22	25.50	1.07	---	---	---	---
		Front	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	---	---	---	---
			H	25.22	25.50	1.07	---	---	---	---
		Top	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	0.42	---	0.43	---
			H	25.22	25.50	1.07	---	---	---	---
		Bottom	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	---	---	---	---
			H	25.22	25.50	1.07	---	---	---	---
		Left	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	0.11	---	0.11	---
			H	25.22	25.50	1.07	---	---	---	---
		Right	L	24.09	25.50	1.38	---	---	---	---
			M	25.31	25.50	1.04	---	---	---	---
			H	25.22	25.50	1.07	---	---	---	---
QPSK 50%RB	Body	Back	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	0.40	---	0.41	---
			H	25.26	25.50	1.06	---	---	---	---
		Front	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	---	---	---	---
			H	25.26	25.50	1.06	---	---	---	---
		Top	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	0.39	---	0.40	---
			H	25.26	25.50	1.06	---	---	---	---
		Bottom	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	---	---	---	---
			H	25.26	25.50	1.06	---	---	---	---
		Left	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	0.08	---	0.08	---
			H	25.26	25.50	1.06	---	---	---	---
		Right	L	23.33	25.50	1.65	---	---	---	---
			M	25.36	25.50	1.03	---	---	---	---
			H	25.26	25.50	1.06	---	---	---	---

Mode: LTE Band 13

fL (MHz)=782 MHz fM (MHz)=782MHz fH (MHz)= 782MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	22.15	22.50	1.08	---	---	---	---
			M	22.15	22.50	1.08	0.62	---	0.67	---
			H	22.15	22.50	1.08	---	---	---	---
		Front	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	---	---	---	---
			H	25.15	25.50	1.08	---	---	---	---
		Top	L	22.15	22.50	1.08	---	---	---	---
			M	22.15	22.50	1.08	0.57	---	0.61	---
			H	22.15	22.50	1.08	---	---	---	---
		Bottom	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	---	---	---	---
			H	25.15	25.50	1.08	---	---	---	---
		Left	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	0.26	---	0.28	---
			H	25.15	25.50	1.08	---	---	---	---
		Right	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	---	---	---	---
			H	25.15	25.50	1.08	---	---	---	---
QPSK 50%RB	Body	Back	L	21.08	21.50	1.10	---	---	---	---
			M	21.08	21.50	1.10	0.58	---	0.64	---
			H	21.08	21.50	1.10	---	---	---	---
		Front	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	---	---	---	---
			H	24.08	24.50	1.10	---	---	---	---
		Top	L	21.08	21.50	1.10	---	---	---	---
			M	21.08	21.50	1.10	0.51	---	0.56	---
			H	21.08	21.50	1.10	---	---	---	---
		Bottom	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	---	---	---	---
			H	24.08	24.50	1.10	---	---	---	---
		Left	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	0.22	---	0.24	---
			H	24.08	24.50	1.10	---	---	---	---
		Right	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	---	---	---	---
			H	24.08	24.50	1.10	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	0.40	---	0.44	---
			H	25.15	25.50	1.08	---	---	---	---
		Front	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	---	---	---	---
			H	25.15	25.50	1.08	---	---	---	---
		Top	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	0.24	---	0.25	---
			H	25.15	25.50	1.08	---	---	---	---
		Bottom	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	---	---	---	---
			H	25.15	25.50	1.08	---	---	---	---
		Left	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	0.13	---	0.14	---
			H	25.15	25.50	1.08	---	---	---	---
		Right	L	25.15	25.50	1.08	---	---	---	---
			M	25.15	25.50	1.08	---	---	---	---
			H	25.15	25.50	1.08	---	---	---	---
QPSK 50%RB	Body	Back	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	0.38	---	0.42	---
			H	24.08	24.50	1.10	---	---	---	---
		Front	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	---	---	---	---
			H	24.08	24.50	1.10	---	---	---	---
		Top	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	0.20	---	0.22	---
			H	24.08	24.50	1.10	---	---	---	---
		Bottom	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	---	---	---	---
			H	24.08	24.50	1.10	---	---	---	---
		Left	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	0.09	---	0.10	---
			H	24.08	24.50	1.10	---	---	---	---
		Right	L	24.08	24.50	1.10	---	---	---	---
			M	24.08	24.50	1.10	---	---	---	---
			H	24.08	24.50	1.10	---	---	---	---

Mode: LTE Band 66

fL (MHz)=1720 MHz fM (MHz)=1745MHz fH (MHz)= 1770MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)			
Mode	Exposure condition	Position	Channel				First	Second	First	Second		
QPSK 1RB	Body	Back	L	17.42	18.50	1.28	0.62	0.62	0.79	0.79		
			M	17.30	18.50	1.32	0.61	0.61	0.81	0.81		
			H	18.15	18.50	1.08	0.82	0.82	0.89	0.88		
		Front	L	23.42	24.50	1.28	---	---	---	---		
			M	23.30	24.50	1.32	---	---	---	---		
			H	24.15	24.50	1.08	---	---	---	---		
		Top	L	17.42	18.50	1.28	0.63	0.63	0.81	0.81		
			M	17.30	18.50	1.32	0.62	0.61	0.81	0.81		
			H	18.15	18.50	1.08	0.86	0.85	0.93	0.92		
		Bottom	L	23.42	24.50	1.28	---	---	---	---		
			M	23.30	24.50	1.32	---	---	---	---		
			H	24.15	24.50	1.08	---	---	---	---		
		Left	L	23.42	24.50	1.28	---	---	---	---		
			M	23.30	24.50	1.32	---	---	---	---		
			H	24.15	24.50	1.08	0.07	---	0.07	---		
		Right	L	23.42	24.50	1.28	---	---	---	---		
			M	23.30	24.50	1.32	---	---	---	---		
			H	24.15	24.50	1.08	---	---	---	---		
		QPSK 50%RB	Body	Back	L	17.59	18.00	1.10	---	---	---	---
					M	17.75	18.00	1.06	---	---	---	---
					H	17.73	18.00	1.06	0.76	---	0.80	---
				Front	L	23.59	24.00	1.10	---	---	---	---
					M	23.75	24.00	1.06	---	---	---	---
					H	23.73	24.00	1.06	---	---	---	---
Top	L			17.59	18.00	1.10	0.64	0.63	0.70	0.69		
	M			17.75	18.00	1.06	0.62	0.61	0.65	0.65		
	H			17.73	18.00	1.06	0.83	0.82	0.88	0.87		
Bottom	L			23.59	24.00	1.10	---	---	---	---		
	M			23.75	24.00	1.06	---	---	---	---		
	H			23.73	24.00	1.06	---	---	---	---		
Left	L			23.59	24.00	1.10	---	---	---	---		
	M			23.75	24.00	1.06	---	---	---	---		
	H			23.73	24.00	1.06	0.06	---	0.06	---		
Right	L			23.59	24.00	1.10	---	---	---	---		
	M			23.75	24.00	1.06	---	---	---	---		
	H			23.73	24.00	1.06	---	---	---	---		
QPSK 100%RB	Body			Back	L	16.59	17.00	1.10	---	---	---	---
					M	16.75	17.00	1.06	---	---	---	---
					H	16.80	17.00	1.05	0.745	---	0.782	---

		Front	L	22.59	23.00	1.10	---	---	---	---
			M	22.75	23.00	1.06	---	---	---	---
			H	22.80	23.00	1.05	---	---	---	---
		Top	L	16.59	17.00	1.10	---	---	---	---
			M	16.75	17.00	1.06	---	---	---	---
			H	16.80	17.00	1.05	0.751	---	0.789	---
		Bottom	L	22.59	23.00	1.10	---	---	---	---
			M	22.75	23.00	1.06	---	---	---	---
			H	22.80	23.00	1.05	---	---	---	---
		Left	L	22.59	23.00	1.10	---	---	---	---
			M	22.75	23.00	1.06	---	---	---	---
			H	22.80	23.00	1.05	0.058	---	0.061	---
		Right	L	22.59	23.00	1.10	---	---	---	---
			M	22.75	23.00	1.06	---	---	---	---
			H	22.80	23.00	1.05	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	23.42	24.50	1.28	---	---	---	---
			M	23.30	24.50	1.32	---	---	---	---
			H	24.15	24.50	1.08	0.58	---	0.63	---
		Front	L	23.42	24.50	1.28	---	---	---	---
			M	23.30	24.50	1.32	---	---	---	---
			H	24.15	24.50	1.08	---	---	---	---
		Top	L	23.42	24.50	1.28	---	---	---	---
			M	23.30	24.50	1.32	---	---	---	---
			H	24.15	24.50	1.08	0.62	---	0.67	---
		Bottom	L	23.42	24.50	1.28	---	---	---	---
			M	23.30	24.50	1.32	---	---	---	---
			H	24.15	24.50	1.08	---	---	---	---
		Left	L	23.42	24.50	1.28	---	---	---	---
			M	23.30	24.50	1.32	---	---	---	---
			H	24.15	24.50	1.08	0.07	---	0.07	---
		Right	L	23.42	24.50	1.28	---	---	---	---
			M	23.30	24.50	1.32	---	---	---	---
			H	24.15	24.50	1.08	---	---	---	---
QPSK 50%RB	Body	Back	L	23.59	24.00	1.10	---	---	---	---
			M	23.75	24.00	1.06	0.50	---	0.53	---
			H	23.73	24.00	1.06	---	---	---	---
		Front	L	23.59	24.00	1.10	---	---	---	---
			M	23.75	24.00	1.06	---	---	---	---
			H	23.73	24.00	1.06	---	---	---	---
		Top	L	23.59	24.00	1.10	---	---	---	---
			M	23.75	24.00	1.06	0.59	---	0.63	---
			H	23.73	24.00	1.06	---	---	---	---
		Bottom	L	23.59	24.00	1.10	---	---	---	---
			M	23.75	24.00	1.06	---	---	---	---
			H	23.73	24.00	1.06	---	---	---	---
		Left	L	23.59	24.00	1.10	---	---	---	---
			M	23.75	24.00	1.06	0.04	---	0.04	---
			H	23.73	24.00	1.06	---	---	---	---
		Right	L	23.59	24.00	1.10	---	---	---	---
			M	23.75	24.00	1.06	---	---	---	---
			H	23.73	24.00	1.06	---	---	---	---

Mode: LTE Band 71

fL (MHz)= 673MHz fM (MHz)= 683MHz fH (MHz)= 688MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel				First	Second	First	Second
QPSK 1RB	Body	Back	L	21.05	22.00	1.24	0.72	0.71	0.90	0.88
			M	21.62	22.00	1.09	0.84	0.81	0.91	0.88
			H	21.27	22.00	1.18	0.76	0.74	0.90	0.87
		Front	L	24.05	25.00	1.24	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.27	25.00	1.18	---	---	---	---
		Top	L	21.05	22.00	1.24	---	---	---	---
			M	21.62	22.00	1.09	0.76	---	0.83	---
			H	21.27	22.00	1.18	---	---	---	---
		Bottom	L	24.05	25.00	1.24	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.27	25.00	1.18	---	---	---	---
		Left	L	24.05	25.00	1.24	---	---	---	---
			M	24.62	25.00	1.09	0.16	---	0.17	---
			H	24.27	25.00	1.18	---	---	---	---
		Right	L	24.05	25.00	1.24	---	---	---	---
			M	24.62	25.00	1.09	---	---	---	---
			H	24.27	25.00	1.18	---	---	---	---
QPSK 50%RB	Body	Back	L	20.32	20.50	1.04	---	---	---	---
			M	20.41	20.50	1.02	0.77	---	0.79	---
			H	20.40	20.50	1.02	---	---	---	---
		Front	L	23.32	23.50	1.04	---	---	---	---
			M	23.41	23.50	1.02	---	---	---	---
			H	23.40	23.50	1.02	---	---	---	---
		Top	L	20.32	20.50	1.04	---	---	---	---
			M	20.41	20.50	1.02	0.70	---	0.71	---
			H	20.40	20.50	1.02	---	---	---	---
		Bottom	L	23.32	23.50	1.04	---	---	---	---
			M	23.41	23.50	1.02	---	---	---	---
			H	23.40	23.50	1.02	---	---	---	---
		Left	L	23.32	23.50	1.04	---	---	---	---
			M	23.41	23.50	1.02	0.14	---	0.14	---
			H	23.40	23.50	1.02	---	---	---	---
		Right	L	23.32	23.50	1.04	---	---	---	---
			M	23.41	23.50	1.02	---	---	---	---
			H	23.40	23.50	1.02	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Meas SAR(w/kg)		Report SAR(w/kg)			
Mode	Exposure condition	Position	Channel				First	Second	First	Second		
QPSK 1RB	Body	Back	L	24.05	25.00	1.24	---	---	---	---		
			M	24.62	25.00	1.09	0.34	---	0.37	---		
			H	24.27	25.00	1.18	---	---	---	---		
		Front	L	24.05	25.00	1.24	---	---	---	---		
			M	24.62	25.00	1.09	---	---	---	---		
			H	24.27	25.00	1.18	---	---	---	---		
		Top	L	24.05	25.00	1.24	---	---	---	---		
			M	24.62	25.00	1.09	0.33	---	0.36	---		
			H	24.27	25.00	1.18	---	---	---	---		
		Bottom	L	24.05	25.00	1.24	---	---	---	---		
			M	24.62	25.00	1.09	---	---	---	---		
			H	24.27	25.00	1.18	---	---	---	---		
		Left	L	24.05	25.00	1.24	---	---	---	---		
			M	24.62	25.00	1.09	0.07	---	0.08	---		
			H	24.27	25.00	1.18	---	---	---	---		
		Right	L	24.05	25.00	1.24	---	---	---	---		
			M	24.62	25.00	1.09	---	---	---	---		
			H	24.27	25.00	1.18	---	---	---	---		
		QPSK 50%RB	Body	Back	L	23.32	23.50	1.04	---	---	---	---
					M	23.41	23.50	1.02	0.27	---	0.28	---
					H	23.40	23.50	1.02	---	---	---	---
				Front	L	23.32	23.50	1.04	---	---	---	---
					M	23.41	23.50	1.02	---	---	---	---
					H	23.40	23.50	1.02	---	---	---	---
Top	L			23.32	23.50	1.04	---	---	---	---		
	M			23.41	23.50	1.02	0.26	---	0.27	---		
	H			23.40	23.50	1.02	---	---	---	---		
Bottom	L			23.32	23.50	1.04	---	---	---	---		
	M			23.41	23.50	1.02	---	---	---	---		
	H			23.40	23.50	1.02	---	---	---	---		
Left	L			23.32	23.50	1.04	---	---	---	---		
	M			23.41	23.50	1.02	0.04	---	0.04	---		
	H			23.40	23.50	1.02	---	---	---	---		
Right	L			23.32	23.50	1.04	---	---	---	---		
	M			23.41	23.50	1.02	---	---	---	---		
	H			23.40	23.50	1.02	---	---	---	---		

Mode: BT

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel					First	Second	First	Second
BR	Body	Back	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	0.16	---	0.18	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Front	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	---	---	---	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Top	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	0.01	---	0.01	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Bottom	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	---	---	---	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Left	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	---	---	---	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Right	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	0.11	---	0.12	---
			H	10.37	11.50	1.30	1.04	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel					First	Second	First	Second
BR	Body	Back	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	0.04	---	0.04	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Front	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	---	---	---	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Top	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	0.01	---	0.01	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Bottom	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	---	---	---	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Left	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	---	---	---	---
			H	10.37	11.50	1.30	1.04	---	---	---	---
		Right	L	10.77	11.50	1.18	1.04	---	---	---	---
			M	11.19	11.50	1.07	1.04	0.03	---	0.03	---
			H	10.37	11.50	1.30	1.04	---	---	---	---

Mode: Wi-Fi 2.4GHz

fL (MHz)=2412MHz fM (MHz)=2437MHz fH (MHz)= 2462MHz

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

		Test case						Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel	Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	First	Second	First	Second
802.11b	Body	Back	L	14.90	15.00	1.02	1.02	0.81	0.80	0.84	0.83
			M	15.00	15.00	1.00	1.02	0.84	0.83	0.85	0.84
			H	14.80	15.00	1.05	1.02	0.79	0.78	0.84	0.83
		Front	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	---	---	---	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Top	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	0.05	---	0.05	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Bottom	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	---	---	---	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Left	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	---	---	---	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Right	L	14.90	15.00	1.02	1.02	---	---	---	---
			M	15.00	15.00	1.00	1.02	0.55	---	0.55	---
			H	14.80	15.00	1.05	1.02	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel					First	Second	First	Second
802.11b	Body	Back	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	0.71	---	0.72	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Front	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	---	---	---	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Top	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	0.05	---	0.05	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Bottom	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	---	---	---	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Left	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	---	---	---	---
			H	18.80	19.00	1.05	1.02	---	---	---	---
		Right	L	18.90	19.00	1.02	1.02	---	---	---	---
			M	19.00	19.00	1.00	1.02	0.42	---	0.43	---
			H	18.80	19.00	1.05	1.02	---	---	---	---

Mode: Wi-Fi 5GHz UNII-1

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case								Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel	Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	First	Second	First	Second
802.11a	Body	Back	L	11.40	11.50	1.02	1.02	---	---	---	---
			M	11.20	11.50	1.07	1.02	0.48	---	0.52	---
			H	11.30	11.50	1.05	1.02	---	---	---	---
		Front	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	---	---	---	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Top	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	0.01	---	0.01	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Bottom	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	---	---	---	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Left	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	---	---	---	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Right	L	11.40	11.50	1.02	1.02	---	---	---	---
			M	11.20	11.50	1.07	1.02	0.46	---	0.50	---
			H	11.30	11.50	1.05	1.02	---	---	---	---

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel					First	Second	First	Second
802.11a	Body	Back	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	0.39	---	0.43	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Front	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	---	---	---	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Top	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	0.11	---	0.12	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Bottom	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	---	---	---	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Left	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	---	---	---	---
			H	17.30	17.50	1.05	1.02	---	---	---	---
		Right	L	17.40	17.50	1.02	1.02	---	---	---	---
			M	17.20	17.50	1.07	1.02	0.37	---	0.40	---
			H	17.30	17.50	1.05	1.02	---	---	---	---

Mode: Wi-Fi 5GHz UNII-3

Limit of SAR (W/kg): <1.6W/kg (1g Average)

0mm with p-sensor on (reduced power for relevant surfaces)

Test case								Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel	Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	First	Second	First	Second
802.11a	Body	Back	L	14.30	14.50	1.05	1.02	0.93	0.92	0.99	0.99
			M	14.40	14.50	1.02	1.02	0.96	0.95	1.00	0.99
			H	14.40	14.50	1.02	1.02	0.94	0.93	0.98	0.97
		Front	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	---	---	---	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Top	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	0.01	---	0.01	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Bottom	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	---	---	---	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Left	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	---	---	---	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Right	L	14.30	14.50	1.05	1.02	0.81	0.80	0.87	0.86
			M	14.40	14.50	1.02	1.02	0.85	0.84	0.89	0.88
			H	14.40	14.50	1.02	1.02	0.82	0.81	0.85	0.84

(Trigger distance-1) mm with p-sensor off (full power for all surfaces)

Test case				Meas power (dBm)	Tune-up (dBm)	Scaling factor	Duty factor	Meas SAR(w/kg)		Report SAR(w/kg)	
Mode	Exposure condition	Position	Channel					First	Second	First	Second
802.11a	Body	Back	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	0.58	---	0.60	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Front	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	---	---	---	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Top	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	0.18	---	0.19	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Bottom	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	---	---	---	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Left	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	---	---	---	---
			H	17.40	17.50	1.02	1.02	---	---	---	---
		Right	L	17.30	17.50	1.05	1.02	---	---	---	---
			M	17.40	17.50	1.02	1.02	0.37	---	0.38	---
			H	17.40	17.50	1.02	1.02	---	---	---	---

6.6 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; steps 2) 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 ≥ 1.45 W/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 .

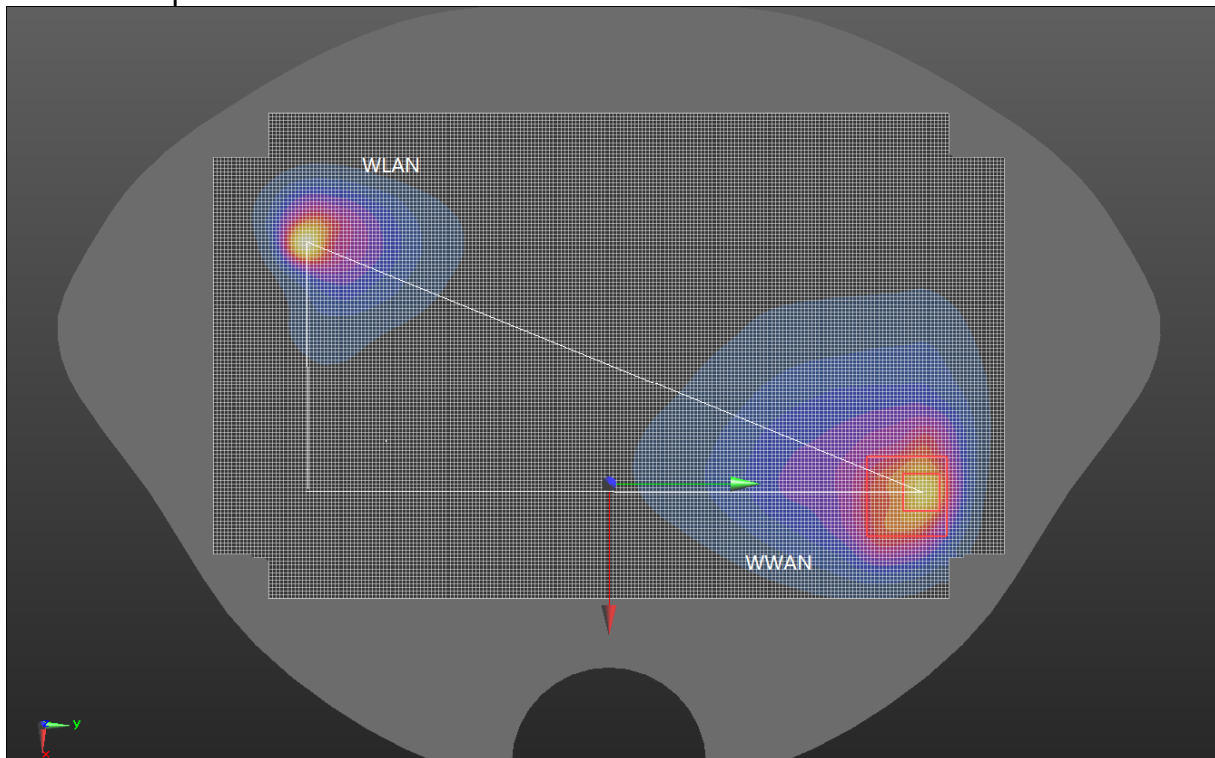
6.7 Simultaneous Transmission SAR Analysis

Antenna numbers of Simultaneous Transmission	Antennas of Simultaneous Transmission	Simultaneous Transmission Modes
2	MAIN ANT+ WLAN/BT ANT	WWAN + WIFI 2.4GHz WWAN + WIFI 5GHz WWAN +BT

The worst case for 2TX simultaneous transmission happened in back position and Top position.

The summation of following condition exceed limit 1.6, but this method is the most conservative which is over estimate. So according to KDB447498D01 4.3.2.c)

When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by $(SAR1 + SAR2)^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion. SAR1 and SAR2 are the highest reported or estimated SAR values for each antenna in the pair, and R_i is the separation distance in mm between the peak SAR locations for the antenna pair.



Distance $\approx 146\text{mm}$

MAXSAR1=1.03(WCDMA B4),

MAXSAR2=1.00(WIFI 5GHz UNII-3)

MAX SpI_{sr}(WCDMA BAND 4+WIFI5GHz UNII-3)=(1.03+1.00)^{1.5}/146=0.02<0.04

The worst combined result is similar to standalone SAR value. So there is no risk for the condition of back position mentioned above. The antenna pairs qualify for simultaneous transmission SAR test exclusion, enlarged zoom scan and volume scan post-processing procedures do not apply. And we adopt the following result which using summation method as final worst case for Simultaneous Transmission in Top position.

Position of worst case	Licensed band	Unlicensed band	Simultaneous SAR(w/kg)
Back	WCDMA Band4	WIFI 5GHz UNII-3	1.13
Top	LTE Band7	WIFI 2.4GHz	1.43

According to the above tables, SAR values < 1.6W/kg meet the compliance.

7 MEASUREMENT UNCERTAINTY

(0.3 - 3 GHz range)								
Error Description	Uncert. value	Prob. Dist.	Div.	(c_i) 1g	(c_i) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v_i) v_{eff}
Measurement System								
Probe Calibration	±6.0 %	N	1	1	1	±6.0 %	±6.0 %	∞
Axial Isotropy	±4.7 %	R	$\sqrt{3}$	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	$\sqrt{3}$	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Linearity	±4.7 %	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %	∞
Modulation Response ^m	±2.4 %	R	$\sqrt{3}$	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	±0.3 %	N	1	1	1	±0.3 %	±0.3 %	∞
Response Time	±0.8 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	$\sqrt{3}$	1	1	±1.5 %	±1.5 %	∞
RF Ambient Noise	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
RF Ambient Reflections	±3.0 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.4 %	R	$\sqrt{3}$	1	1	±0.2 %	±0.2 %	∞
Probe Positioning	±2.9 %	R	$\sqrt{3}$	1	1	±1.7 %	±1.7 %	∞
Max. SAR Eval.	±2.0 %	R	$\sqrt{3}$	1	1	±1.2 %	±1.2 %	∞
Test Sample Related								
Device Positioning	±2.9 %	N	1	1	1	±2.9 %	±2.9 %	145
Device Holder	±3.6 %	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0 %	R	$\sqrt{3}$	1	1	±2.9 %	±2.9 %	∞
Power Scaling ^p	±0 %	R	$\sqrt{3}$	1	1	±0.0 %	±0.0 %	∞
Phantom and Setup								
Phantom Uncertainty	±6.1 %	R	$\sqrt{3}$	1	1	±3.5 %	±3.5 %	∞
SAR correction	±1.9 %	R	$\sqrt{3}$	1	0.84	±1.1 %	±0.9 %	∞
Liquid Conductivity (mea.) ^{DAK}	±2.5 %	R	$\sqrt{3}$	0.78	0.71	±1.1 %	±1.0 %	∞
Liquid Permittivity (mea.) ^{DAK}	±2.5 %	R	$\sqrt{3}$	0.26	0.26	±0.3 %	±0.4 %	∞
Temp. unc. - Conductivity ^{BB}	±3.4 %	R	$\sqrt{3}$	0.78	0.71	±1.5 %	±1.4 %	∞
Temp. unc. - Permittivity ^{BB}	±0.4 %	R	$\sqrt{3}$	0.23	0.26	±0.1 %	±0.1 %	∞
Combined Std. Uncertainty						±11.2 %	±11.1 %	361
Expanded STD Uncertainty						±22.3 %	±22.2 %	

(3 - 6 GHz range)

Error Description	Uncert. value	Prob. Dist.	Div.	(c _i) 1g	(c _i) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v _i) v _{eff}
Measurement System								
Probe Calibration	±6.55 %	N	1	1	1	±6.55 %	±6.55 %	∞
Axial Isotropy	±4.7 %	R	√3	0.7	0.7	±1.9 %	±1.9 %	∞
Hemispherical Isotropy	±9.6 %	R	√3	0.7	0.7	±3.9 %	±3.9 %	∞
Boundary Effects	±2.0 %	R	√3	1	1	±1.2 %	±1.2 %	∞
Linearity	±4.7 %	R	√3	1	1	±2.7 %	±2.7 %	∞
System Detection Limits	±1.0 %	R	√3	1	1	±0.6 %	±0.6 %	∞
Modulation Response ^m	±2.4 %	R	√3	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	±0.3 %	N	1	1	1	±0.3 %	±0.3 %	∞
Response Time	±0.8 %	R	√3	1	1	±0.5 %	±0.5 %	∞
Integration Time	±2.6 %	R	√3	1	1	±1.5 %	±1.5 %	∞
RF Ambient Noise	±3.0 %	R	√3	1	1	±1.7 %	±1.7 %	∞
RF Ambient Reflections	±3.0 %	R	√3	1	1	±1.7 %	±1.7 %	∞
Probe Positioner	±0.8 %	R	√3	1	1	±0.5 %	±0.5 %	∞
Probe Positioning	±6.7 %	R	√3	1	1	±3.9 %	±3.9 %	∞
Max. SAR Eval.	±4.0 %	R	√3	1	1	±2.3 %	±2.3 %	∞
Test Sample Related								
Device Positioning	±2.9 %	N	1	1	1	±2.9 %	±2.9 %	145
Device Holder	±3.6 %	N	1	1	1	±3.6 %	±3.6 %	5
Power Drift	±5.0 %	R	√3	1	1	±2.9 %	±2.9 %	∞
Power Scaling ^P	±0 %	R	√3	1	1	±0.0 %	±0.0 %	∞
Phantom and Setup								
Phantom Uncertainty	±6.6 %	R	√3	1	1	±3.8 %	±3.8 %	∞
SAR correction	±1.9 %	R	√3	1	0.84	±1.1 %	±0.9 %	∞
Liquid Conductivity (mea.) ^{DAK}	±2.5 %	R	√3	0.78	0.71	±1.1 %	±1.0 %	∞
Liquid Permittivity (mea.) ^{DAK}	±2.5 %	R	√3	0.26	0.26	±0.3 %	±0.4 %	∞
Temp. unc. - Conductivity ^{BB}	±3.4 %	R	√3	0.78	0.71	±1.5 %	±1.4 %	∞
Temp. unc. - Permittivity ^{BB}	±0.4 %	R	√3	0.23	0.26	±0.1 %	±0.1 %	∞
Combined Std. Uncertainty						±12.3 %	±12.2 %	748
Expanded STD Uncertainty						±24.6 %	±24.5 %	

8 TEST EQUIPMENTS

The measurements were performed using an automated near-field scanning system, DASY5, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the ‘advanced extrapolation’ algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Model	Serial Number	Calibration date	Calibration Due data
DAE	DAE4	720	2020.09.30	2021.09.29
Dosimetric E-field Probe	EX3DV4	3708	2020.10.30	2021.10.29
Dipole Validation Kit	D750V3	1101	2020.10.16	2023.10.15
Dipole Validation Kit	D835V2	4d023	2020.10.16	2023.10.15
Dipole Validation Kit	D1800V2	2d084	2020.09.18	2023.09.17
Dipole Validation Kit	D2000V2	1009	2020.10.14	2023.10.13
Dipole Validation Kit	D2450V2	738	2020.10.13	2023.10.12
Dipole Validation Kit	D2600V2	1166	2019.11.08	2022.11.07
Dipole Validation Kit	D5GHzV2	1079	2020.10.10	2023.10.09

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration date	Calibration Due data
Signal Generator	E4428C	MY45280865	2020.08.20	2021.08.19
Signal Generator	SML 03	103514	2020.08.20	2021.08.19
Power meter	E4417A	MY45101182	2020.08.20	2021.08.19
Power Sensor	E4412A	MY41502214	2020.08.20	2021.08.19
Power Sensor	E4412A	MY41502130	2020.08.20	2021.08.19
Power meter	E4417A	MY45101004	2020.08.20	2021.08.19
Power Sensor	E9300B	MY41496001	2020.08.20	2021.08.19
Power Sensor	E9300B	MY41496003	2020.08.20	2021.08.19
Communication Tester	E5515C	MY48367401	2020.08.20	2021.08.19
Communication Tester	CMW500	161702	2020.08.20	2021.08.19
Communication Tester	MT8820C	6201300660	2020.08.20	2021.08.19
Communication Tester	MT8821C	6201547819	2020.08.20	2021.08.19
Vector Network Analyzer	VNA R140	0011213	2020.09.18	2021.09.17
Dielectric Parameter Probe	DAKS-3.5	1042	2020.09.17	2021.09.16

Detailed information of Isotropic E-field Probe Type ES3DV3

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to 4 GHz; Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Optical Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm
Dynamic Range	5 μ W/g to > 100 W/kg; Linearity: ± 0.2 dB
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones

Detailed information of Isotropic E-field Probe Type EX3DV4

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix C
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Optical Surface Detection	± 0.3 mm repeatability in air and clear liquids over diffuse reflecting surfaces
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Dynamic Range	10 μ W/g to > 100 W/kg Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

According to KDB 865664 D01 section 3.2.2, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the **SAR target, impedance and return loss** of a dipole have remain stable according to the following requirements.

- 1) The test laboratory must ensure that the required supporting information and documentation are included in the SAR report to qualify for the three-year extended calibration interval; otherwise, the IEEE Std 1528-2013 recommended annual calibration applies.
- 2) Immediate re-calibration is required for the following conditions.
 - a) After a dipole is damaged and properly repaired to meet required specifications.
 - b) When the measured SAR deviates from the calibrated SAR value by more than 10% due to changes in physical, mechanical, electrical or other relevant dipole conditions; i.e., the error is not introduced by incorrect measurement procedures or other issues relating to the SAR measurement system.
 - c) When the most recent return-loss result, measured at least annually, deviates by more than 20% from the previous measurement (i.e. value in dB \times 0.2) or not meeting the required 20 dB minimum return-loss requirement.
 - d) When the most recent measurement of the real or imaginary parts of the impedance, measured at least annually, deviates by more than 5 Ω from the previous measurement.

Dipole

SAR target

Refers to system check, measured SAR (1g and 10g) deviates from the Target SAR value of calibration report within 10%.

Impedance and Return loss measured by Network analyzer

The most recent measurement of the real or imaginary parts of the impedance, deviates within 5 Ω from the previous measurement. (Data from the last calibration report)

The most recent return-loss result deviates within 20% from the previous measurement. (Data from the last calibration report)

Dipole750 TSL Parameters		
Parameters	Measured data	Target (Ref. Value)
Impedance	53.8 Ω -4.02j Ω	53.7 Ω -1.63j Ω
Return loss	-25.5 dB	-28.2dB

Dipole835 TSL Parameters		
Parameters	Measured data	Target (Ref. Value)
Impedance	54.5 Ω -6.16j Ω	52.6 Ω -2.37j Ω
Return loss	-34.1 dB	-29.3dB

Dipole1800 TSL Parameters		
Parameters	Measured data	Target (Ref. Value)
Impedance	44.2 Ω +5.06j Ω	48.9 Ω -2.71j Ω
Return loss	-31.8 dB	-30.6dB

Dipole2000 TSL Parameters		
Parameters	Measured data	Target (Ref. Value)
Impedance	51.9 Ω -3.37j Ω	49.4 Ω -2.46j Ω
Return loss	-28.4 dB	-31.9dB

Dipole2450 TSL Parameters		
Parameters	Measured data	Target (Ref. Value)
Impedance	53.2 Ω -9.98j Ω	53.3 Ω +6.38j Ω
Return loss	-19.9 dB	-23.1dB

Dipole2600 TSL Parameters		
Parameters	Measured data	Target (Ref. Value)
Impedance	50.4 Ω +6.71j Ω	47.9 Ω -7.80j Ω
Return loss	-23.5 dB	-21.7dB

Dipole5GHz TSL Parameters (5200MHz)		
Parameters	Measured data	Target (Ref. Value)
Impedance	51.2 Ω +13.89j Ω	50.2 Ω -10.0j Ω
Return loss	-17.0 dB	-20.0dB

Dipole5GHz TSL Parameters (5800MHz)		
Parameters	Measured data	Target (Ref. Value)
Impedance	51.6Ω-5.96jΩ	53.7Ω-5.87jΩ
Return loss	-19.0 dB	-23.5dB

ANNEX A – TEST PLOTS

Please refer to the attachment.