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CERTIFICATE #4820.01

BACL
Bay Area Compliance Labs Corp.

SAR EVALUATION REPORT

For

Shanghai Sunmi Technology Co.,Ltd.

Room 605, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China

FCC ID: 2AH25T6920

Report Type:	**Product Type:**
Original Report	Smart POS system

Report Number:	RKS190719052-20
Report Date:	2019-09-25
Reviewed By:	Rocky Xiao RF Engineer
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Attestation of Test Results				
EUT Information	EUT Description	Smart POS system		
	Tested Model	T6920		
	FCC ID	2AH25T6920		
	Serial Number	19071905221		
	Test Date	2019-08-31 ~ 2019-09-25		
MODE		Max. SAR Level(s) Reported(W/kg)		Limit (W/kg)
Body Supported Mode	GSM 850	1g Body SAR	0.52	1. 6
	PCS 1900	1g Body SAR	0.62	
	CDMA BC0	1g Body SAR	0.54	
	CDMA BC1	1g Body SAR	0.59	
	WCDMA Band 2	1g Body SAR	0.46	
	WCDMA Band 4	1g Body SAR	0.52	
	WCDMA Band 5	1g Body SAR	**1.20**	
	LTE Band 2	1g Body SAR	0.97	
	LTE Band 4	1g Body SAR	0.84	
	LTE Band 7	1g Body SAR	0.67	
	LTE Band 12&17	1g Body SAR	1.00	
	LTE Band 25	1g Body SAR	0.63	
	LTE Band 26&5	1g Body SAR	0.78	
	LTE Band 41&38	1g Body SAR	0.74	
	WLAN 2.4G	1g Body SAR	0.49	
	WLAN 5.2G	1g Body SAR	0.19	
	WLAN 5.8G	1g Body SAR	0.35	
	Simultaneous	1g Body SAR	**1.53**	
Applicable Standards	**FCC 47 CFR part 2.1093** Radiofrequency radiation exposure evaluation: portable devices			
	IEEE1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques			
	RF Exposure Procedures: TCB Workshop April 2019			
	IEC 62209-2:2010 Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices-Human models, instrumentation, and procedures-Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)			
	KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 648474 D04 Handset SAR v01r03 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 941225 D01 3G SAR Procedures v03r01 KDB 941225 D05 SAR for LTE Devices v02r05 KDB 248227 D01 802 11 Wi-Fi SAR v02r02 KDB 616217 D04 SAR for laptop and tablets v01r02			
Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in **FCC 47 CFR part 2.1093** and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures. **The results and statements contained in this report pertain only to the device(s) evaluated.**				

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	RKS190719052-20	Original Report	2019-09-25

EUT DESCRIPTION

This report has been prepared on behalf of ***Shanghai Sunmi Technology Co.,Ltd.*** and their product ***Smart POS system***, Model: ***T6920***, FCC ID: ***2AH25T6920*** or the EUT (Equipment under Test) as referred to in the rest of this report.

**All measurement and test data in this report was gathered from production sample serial number: 19071905221 (Assigned by BACL).The EUT supplied by the applicant was received on 2019-07-23.*

Technical Specification

Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
DTM Type:	Class B
Multi-slot Class:	GPRS(Class 12); EGPRS(Class 12)
Body-Worn Accessories:	None
Operation Mode :	GPRS/EDGE Data, CDMA 1xRTT, 1xEVDO Rev.A, WCDMA(HSUPA, HSDPA) FDD-LTE, TDD-LTE, WLAN and Bluetooth
Frequency Band:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) CDMA 850(BC0): 824-849 MHz(TX) ; 869-894 MHz(RX) CDMA 1900(BC1): 1850-1910 MHz(TX) ; 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 4: 1710-1755 MHz(TX) ; 2110-2155 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) LTE Band 4: 1710-1755 MHz(TX) ; 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX) ; 2620-2690 MHz(RX) LTE Band 12: 699-716 MHz(TX); 729-746 MHz(RX) LTE Band 17: 704-716 MHz(TX); 734-746 MHz(RX) LTE Band 25: 1850-1915 MHz(TX); 1930-1995 MHz(RX) LTE Band 26: 814-849 MHz(TX); 859-894 MHz(RX) LTE Band 38: 2570-2620 MHz(TX) ; 2570-2620 MHz(RX) LTE Band 41: 2496-2690 MHz(TX) ; 2496-2690 MHz(RX) WLAN 2.4G: 2412 -2462 MHz/2422 -2452 MHz WLAN 5.2G: 5180 -5240 MHz/5190 -5230 MHz WLAN 5.8G: 5745 -5825 MHz/5755 -5795 MHz Bluetooth : 2402 MHz-2480 MHz
Conducted RF Power:	GSM 850 : 32.28 dBm, PCS 1900: 29.21 dBm CDMA BC0: 24.22 dBm, CDMA BC1: 23.25 dBm WCDMA Band 2: 23.45 dBm, Band 4: 23.41 dBm, Band 5: 22.28 dBm LTE Band 2: 21.56 dBm, LTE Band 4: 21.50 dBm LTE Band 5: 21.57 dBm, LTE Band 7: 21.48 dBm LTE Band 12: 21.59 dBm, LTE Band 17: 21.39 dBm LTE Band 25: 21.63 dBm, LTE Band 26: 21.61 dBm LTE Band 38: 22.56 dBm, LTE Band 41: 22.53 dBm WLAN 2.4G: 13.45 dBm WLAN 5.2G: 12.12 dBm, WLAN 5.8G: 11.46 dBm Bluetooth(BDR/EDR): 8.97 dBm BLE: -1.14 dBm
Power Source:	7.6 VDC Rechargeable Battery
Normal Operation:	Body Supported

REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 “Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under “worst-case” conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by EN62209-1 for an uncontrolled environment. According to the Standard, the device should be evaluated at maximum output power (radiated from the antenna) under “worst-case” conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

SAR Limits

FCC Limit

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	**1.60**	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

CE Limit

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 10 g of tissue)	2.0	10
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg for 1g SAR applied to the EUT.

FACILITIES

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier : CN0022.

The test sites and measurement facilities used to collect data are located at:

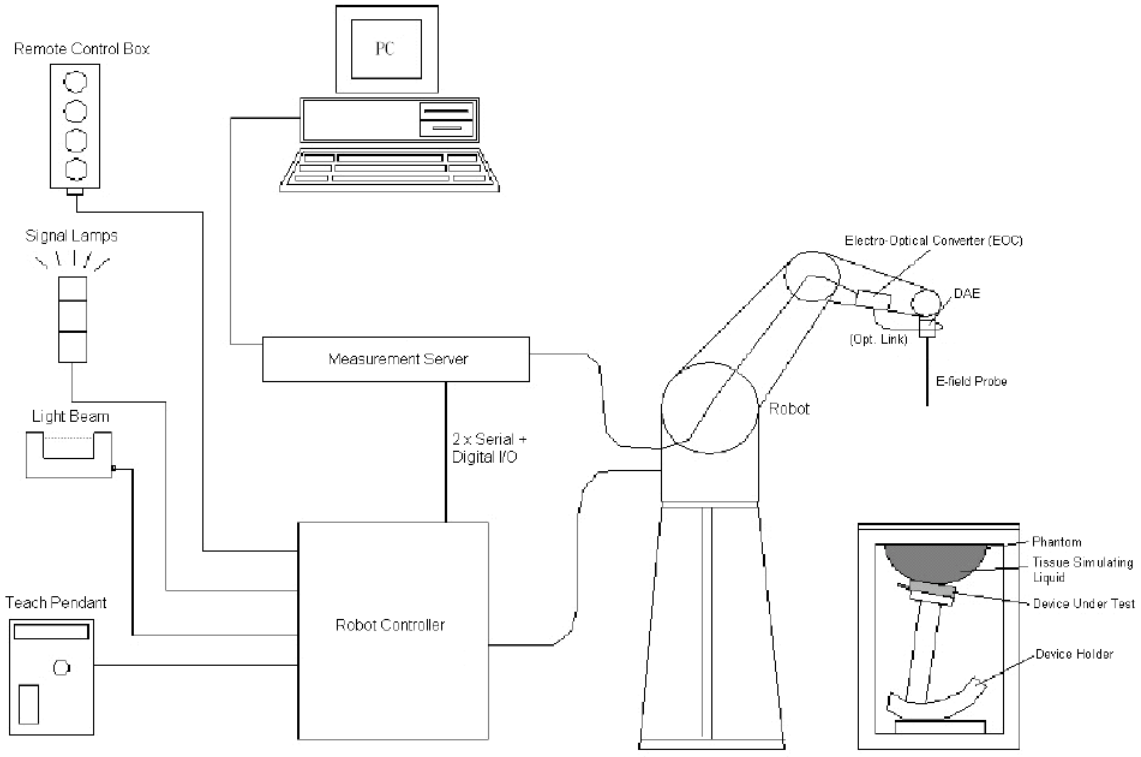
☒ SAR Lab 1	☐ SAR Lab 2

DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:

DASY5 System Description

The DASY5 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

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

The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
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
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%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7441 Calibrated: 2018/12/13

Calibration Frequency Point(MHz)	Frequency Range(MHz)		Conversion Factor		
	From	To	X	Y	Z
750 Head	650	850	10.05	10.05	10.05
750 Body	650	850	10.19	10.19	10.19
900 Head	850	1000	9.69	9.69	9.69
900 Body	850	1000	9.73	9.73	9.73
1750 Head	1650	1850	8.31	8.31	8.31
1750 Body	1650	1850	8.01	8.01	8.01
1900 Head	1850	2000	7.97	7.97	7.97
1900 Body	1850	2000	7.7	7.7	7.7
2300 Head	2200	2400	7.8	7.8	7.8
2300 Body	2200	2400	7.72	7.72	7.72
2450 Head	2400	2550	7.49	7.49	7.49
2450 Body	2400	2550	7.43	7.43	7.43
2600 Head	2550	2700	7.29	7.29	7.29
2600 Body	2550	2700	7.17	7.17	7.17
3700 Head	3600	3800	6.72	6.72	6.72
3700 Body	3600	3800	6.49	6.49	6.49
5200 Head	5090	5250	5.88	5.88	5.88
5200 Body	5090	5250	5.23	5.23	5.23
5300 Head	5250	5410	5.51	5.51	5.51
5300 Body	5250	5410	4.74	4.74	4.74
5600 Head	5490	5700	5	5	5
5600 Body	5490	5700	4.31	4.31	4.31
5800 Head	5700	5910	5.08	5.08	5.08
5800 Body	5700	5910	4.33	4.33	4.33

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness
increases to 6 mm). The phantom has three measurement areas:
_ Left Head
_ Right Head
_ Flat phantom

The phantom table for the DASY systems based on the robots have the size of 100 x 50 x 85 cm (L x W x H).
For easy dislocation these tables have fork lift cut outs at the bottom.
The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)

A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible. Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The above mentioned robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m^3 is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm,with the side length of the 10g cube is 21.5mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1:2016

Recommended Tissue Dielectric Parameters for Head liquid

Table A.3 – Dielectric properties of the head tissue-equivalent liquid

Frequency MHz	Relative permittivity ε_r	Conductivity (σ) S/m
300	45,3	0,87
450	43,5	0,87
750	*41,9*	*0,89*
835	41,5	0,90
900	41,5	0,97
1 450	40,5	1,20
1 500	*40,4*	*1,23*
1 640	*40,2*	*1,31*
1 750	*40,1*	*1,37*
1 800	40,0	1,40
1 900	40,0	1,40
2 000	40,0	1,40
2 100	*39,8*	*1,49*
2 300	*39,5*	*1,67*
2 450	39,2	1,80
2 600	*39,0*	*1,96*
3 000	38,5	2,40
3 500	*37,9*	*2,91*
4 000	*37,4*	*3,43*
4 500	*36,8*	*3,94*
5 000	*36,2*	*4,45*
5 200	*36,0*	*4,66*
5 400	*35,8*	*4,86*
5 600	*35,5*	*5,07*
5 800	*35,3*	*5,27*
6 000	*35,1*	*5,48*

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown *in italics*). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

Note:

1, Effective February 19, 2019, FCC has permitted the use of single head-tissue simulating liquid specified in IEC 62209-1 for all SAR tests.
2, Mix and Match of traditional FCC SAR TSLs and IEC 62209-1 TSL in a single application is not permitted TSL can be changed in a Permissive Change.
3, If SAR increases and original SAR > 1.2 W/kg, additional SAR measurements will be required IEC 62209-1 TSL is an alternative, not mandatory at this time.
4, If FCC parameters are used, ±5% tolerance. If IEC parameters, ±10%.
5, In this case, IEC parameters applied

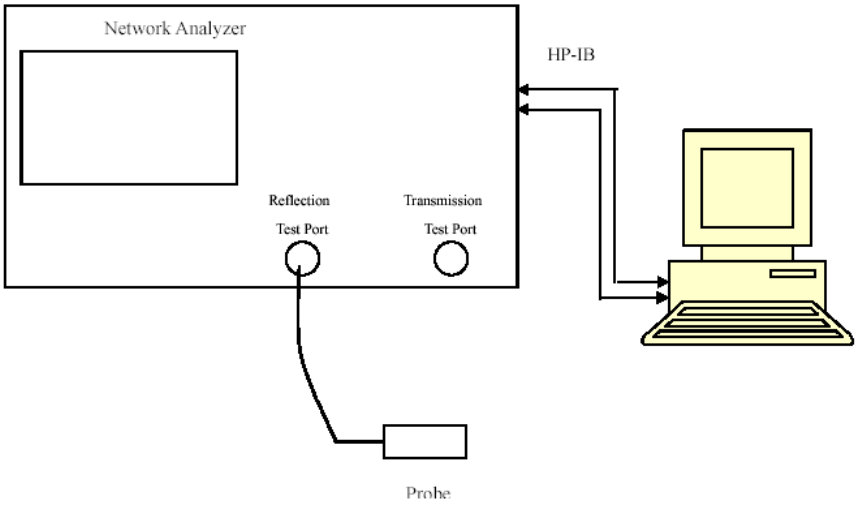
EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.8	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1470	NCR	NCR
Data Acquisition Electronics	DAE3	471	2018/12/3	2019/12/3
E-Field Probe	EX3DV4	7441	2018/12/13	2019/12/12
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
Twin SAM	Twin SAM V5.0	1874	NCR	NCR
Dipole, 750 MHz	D750V3	1167	2016/11/8	2019/11/7
Dipole, 1750 MHz	D1750V2	1141	2018/6/25	2021/6/24
Dipole, 1900 MHz	D1900V2	543	2016/10/25	2019/10/24
Dipole,2450 MHz	D2450V2	971	2018/6/26	2021/6/25
Dipole, 2600 MHz	D2600V2	1132	2016/11/10	2019/11/9
Dipole,5GHz	D5GHzV2	1246	2016/11/7	2019/11/6
Simulated Tissue 750 MHz	TS-750	1709075001	Each Time	/
Simulated Tissue 1750 MHz	TS-1750	1703175001	Each Time	/
Simulated Tissue 1900 MHz	TS-1900	1703190001	Each Time	/
Simulated Tissue 2450 MHz	TS-2450	1703245001	Each Time	/
Simulated Tissue 2600 MHz	TS-2600	1709260001	Each Time	/
Simulated Tissue 5250 MHz	TS-5250	1701525001	Each Time	/
Simulated Tissue 5800 MHz	TS-5800	1701580001	Each Time	/
Network Analyzer	8753C	3033A02857	2019/8/3	2020/8/3
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
Signal Generator	E8247C	MY43321350	2018/12/10	2019/12/10
EPM Series Power Meter	E4419B	MY45103907	2019/5/9	2020/5/9
Power Amplifier	ZVA-183-S+	5969001149	NCR	NCR
Directional Coupler	441493	520Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
Wireless communication tester	E5515C	MY48367501	2018/12/10	2019/12/10
R&S, universal Radio Communication Tester	CMU200	110 822	2018/12/10	2019/12/10
Wideband Radio Communication Tester	CMW500	110479	2018/12/10	2019/12/10

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
750	Simulated Tissue 750 MHz	41.388	0.881	41.9	0.89	-1.22	-1.01	±10
824.2	Simulated Tissue 750 MHz	42.054	0.863	41.55	0.9	1.21	-4.11	±10
824.7	Simulated Tissue 750 MHz	42.022	0.864	41.55	0.9	1.14	-4	±10
826.4	Simulated Tissue 750 MHz	42.105	0.862	41.54	0.9	1.36	-4.22	±10
836.52	Simulated Tissue 750 MHz	42.337	0.878	41.5	0.9	2.02	-2.44	±10
836.6	Simulated Tissue 750 MHz	42.326	0.88	41.5	0.9	1.99	-2.22	±10
846.6	Simulated Tissue 750 MHz	42.478	0.884	41.5	0.91	2.36	-2.86	±10
848.31	Simulated Tissue 750 MHz	42.425	0.879	41.5	0.91	2.23	-3.41	±10
848.8	Simulated Tissue 750 MHz	42.274	0.878	41.5	0.91	1.87	-3.52	±10

**Liquid Verification above was performed on 2019/08/31.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
704	Simulated Tissue 750 MHz	42.992	0.881	42.15	0.89	2	-1.01	±10
707.5	Simulated Tissue 750 MHz	43.001	0.883	42.13	0.89	2.07	-0.79	±10
711	Simulated Tissue 750 MHz	43.017	0.873	42.11	0.89	2.15	-1.91	±10
750	Simulated Tissue 750 MHz	42.953	0.879	41.9	0.89	2.51	-1.24	±10
821.5	Simulated Tissue 750 MHz	42.155	0.882	41.5	0.89	1.58	-0.9	±10
831.5	Simulated Tissue 750 MHz	42.413	0.879	41.5	0.9	2.2	-2.33	±10
841.5	Simulated Tissue 750 MHz	42.33	0.882	41.5	0.91	2	-3.08	±10

**Liquid Verification above was performed on 2019/09/01.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
1712.4	Simulated Tissue 1750 MHz	41.345	1.319	40.13	1.35	3.03	-2.3	±10
1720	Simulated Tissue 1750 MHz	41.105	1.333	40.13	1.35	2.43	-1.26	±10
1732.5	Simulated Tissue 1750 MHz	41.21	1.345	40.12	1.36	2.72	-1.1	±10
1732.6	Simulated Tissue 1750 MHz	41.224	1.344	40.12	1.36	2.75	-1.18	±10
1745	Simulated Tissue 1750 MHz	41.125	1.357	40.1	1.37	2.56	-0.95	±10
1750	Simulated Tissue 1750 MHz	41.046	1.35	40.1	1.37	2.36	-1.46	±10
1752.6	Simulated Tissue 1750 MHz	41.11	1.365	40.09	1.37	2.54	-0.36	±10

**Liquid Verification above was performed on 2019/09/04.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
1850.2	Simulated Tissue 1900 MHz	40.706	1.34	40	1.4	1.77	-4.29	±10
1851.25	Simulated Tissue 1900 MHz	40.713	1.339	40	1.4	1.78	-4.36	±10
1852.4	Simulated Tissue 1900 MHz	40.668	1.353	40	1.4	1.67	-3.36	±10
1880	Simulated Tissue 1900 MHz	40.331	1.372	40	1.4	0.83	-2	±10
1900	Simulated Tissue 1900 MHz	40.369	1.396	40	1.4	0.92	-0.29	±10
1907.6	Simulated Tissue 1900 MHz	40.324	1.393	40	1.4	0.81	-0.5	±10
1908.75	Simulated Tissue 1900 MHz	40.377	1.408	40	1.4	0.94	0.57	±10
1909.8	Simulated Tissue 1900 MHz	40.377	1.396	40	1.4	0.94	-0.29	±10

**Liquid Verification above was performed on 2019/09/02.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
1860	Simulated Tissue 1900 MHz	40.606	1.352	40	1.4	1.52	-3.43	±10
1880	Simulated Tissue 1900 MHz	40.503	1.368	40	1.4	1.26	-2.29	±10
1882.5	Simulated Tissue 1900 MHz	40.469	1.36	40	1.4	1.17	-2.86	±10
1900	Simulated Tissue 1900 MHz	40.362	1.385	40	1.4	0.91	-1.07	±10
1905	Simulated Tissue 1900 MHz	40.396	1.396	40	1.4	0.99	-0.29	±10

**Liquid Verification above was performed on 2019/09/03.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
2412	Simulated Tissue 2450 MHz	38.968	1.824	39.28	1.77	-0.79	3.05	±10
2437	Simulated Tissue 2450 MHz	40.243	1.795	39.23	1.79	2.58	0.28	±10
2450	Simulated Tissue 2450 MHz	40.083	1.761	39.2	1.8	2.25	-2.17	±10
2462	Simulated Tissue 2450 MHz	39.56	1.735	39.18	1.81	0.97	-4.14	±10
2506	Simulated Tissue 2450 MHz	39.226	1.817	39.13	1.86	0.25	-2.31	±10
2510	Simulated Tissue 2450 MHz	38.949	1.817	39.12	1.86	-0.44	-2.31	±10
2535	Simulated Tissue 2450 MHz	37.931	1.922	39.09	1.89	-2.96	1.69	±10

**Liquid Verification above was performed on 2019/09/05.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
2560	Simulated Tissue 2600 MHz	38.858	1.958	39.05	1.92	-0.49	1.98	±10
2593	Simulated Tissue 2600 MHz	40.253	1.923	39.01	1.95	3.19	-1.38	±10
2600	Simulated Tissue 2600 MHz	40.153	1.895	39	1.96	2.96	-3.32	±10
2680	Simulated Tissue 2600 MHz	38.104	2.031	38.9	2.05	-2.05	-0.93	±10

**Liquid Verification above was performed on 2019/09/05.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
5180	Simulated Tissue 5250 MHz	36.542	4.453	36.02	4.64	1.45	-4.03	±10
5200	Simulated Tissue 5250 MHz	35.533	4.678	36	4.66	-1.3	0.39	±10
5240	Simulated Tissue 5250 MHz	36.625	4.655	35.96	4.7	1.85	-0.96	±10
5250	Simulated Tissue 5250 MHz	36.06	4.578	35.95	4.71	0.31	-2.8	±10

**Liquid Verification above was performed on 2019/09/02.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
5745	Simulated Tissue 5800 MHz	34.865	5.296	35.36	5.22	-1.4	1.46	±10
5785	Simulated Tissue 5800 MHz	35.656	5.427	35.32	5.26	0.95	3.17	±10
5800	Simulated Tissue 5800 MHz	35.564	5.452	35.3	5.27	0.75	3.45	±10
5825	Simulated Tissue 5800 MHz	35.429	5.386	35.28	5.3	0.42	1.62	±10

**Liquid Verification above was performed on 2019/09/02.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
2412	Simulated Tissue 2450 MHz	39.123	1.703	39.28	1.77	-0.4	-3.79	±10
2437	Simulated Tissue 2450 MHz	39.076	1.765	39.23	1.79	-0.39	-1.4	±10
2450	Simulated Tissue 2450 MHz	38.953	1.809	39.2	1.8	-0.63	0.5	±10
2462	Simulated Tissue 2450 MHz	38.861	1.864	39.18	1.81	-0.81	2.98	±10

**Liquid Verification above was performed on 2019/09/25.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
5180	Simulated Tissue 5250 MHz	36.685	4.522	36.02	4.64	1.85	-2.54	±10
5200	Simulated Tissue 5250 MHz	36.621	4.597	36	4.66	1.73	-1.35	±10
5240	Simulated Tissue 5250 MHz	36.543	4.617	35.96	4.7	1.62	-1.77	±10
5250	Simulated Tissue 5250 MHz	36.513	4.621	35.95	4.71	1.57	-1.89	±10

**Liquid Verification above was performed on 2019/09/25.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$ (S/m)	
5745	Simulated Tissue 5800 MHz	35.786	5.201	35.36	5.22	1.2	-0.36	±10
5785	Simulated Tissue 5800 MHz	35.737	5.235	35.32	5.26	1.18	-0.48	±10
5800	Simulated Tissue 5800 MHz	35.683	5.342	35.3	5.27	1.08	1.37	±10
5825	Simulated Tissue 5800 MHz	35.605	5.397	35.28	5.3	0.92	1.83	±10

**Liquid Verification above was performed on 2019/09/25.*

System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of ±10%. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

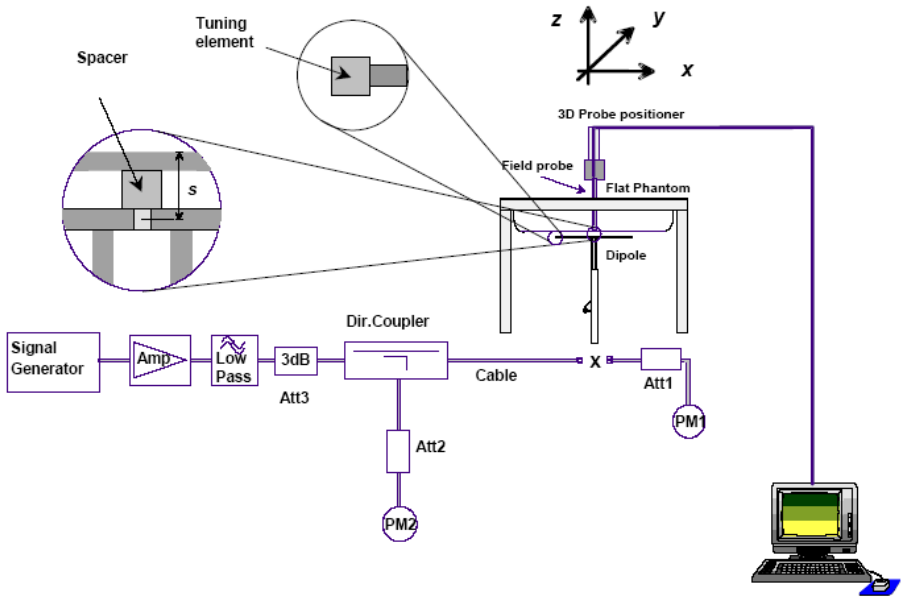
The spacing distances in the **System Verification Setup Block Diagram** is given by the following:

a) s = 15 mm ± 0,2 mm for 300 MHz ≤ f ≤ 1 000 MHz;

b) s = 10 mm ± 0,2 mm for 1 000 MHz < f ≤ 3 000 MHz;

c) s = 10 mm ± 0,2 mm for 3 000 MHz < f ≤ 6 000 MHz.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2019/08/31	750 MHz	Simulated Tissue 750 MHz	100	1g	0.852	8.52	8.23	3.52	±10
2019/09/01	750 MHz	Simulated Tissue 750 MHz	100	1g	0.829	8.29	8.23	0.73	±10
2019/09/04	1750 MHz	Simulated Tissue 1750 MHz	100	1g	3.85	38.5	36.8	4.62	±10
2019/09/02	1900 MHz	Simulated Tissue 1900 MHz	100	1g	4.19	41.9	40.3	3.97	±10
2019/09/03	1900 MHz	Simulated Tissue 1900 MHz	100	1g	4.07	40.7	40.3	0.99	±10
2019/09/05	2450 MHz	Simulated Tissue 2450 MHz	100	1g	5.31	53.1	53.3	-0.38	±10
2019/09/25	2450 MHz	Simulated Tissue 2450 MHz	100	1g	5.47	54.7	53.3	2.63	±10
2019/09/05	2600 MHz	Simulated Tissue 2600 MHz	100	1g	5.76	57.6	56.1	2.67	±10

*The SAR values above are normalized to 1 Watt forward power.

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2019/09/02	5250 MHz	Simulated Tissue 5250 MHz	100	1g	7.85	78.5	79.5	-1.26	±10
2019/09/25	5250 MHz	Simulated Tissue 5250 MHz	100	1g	7.71	77.1	79.5	-3.02	±10
2019/09/02	5800 MHz	Simulated Tissue 5800 MHz	100	1g	8.14	81.4	79.5	2.39	±10
2019/09/25	5800 MHz	Simulated Tissue 5800 MHz	100	1g	8.02	80.2	79.5	0.88	±10

*The SAR values above are normalized to 1 Watt forward power.

SAR SYSTEM VALIDATION DATA

System Performance 750 MHz 2019/08/31

DUT: D750V3; Type: 750 MHz; Serial: 1167

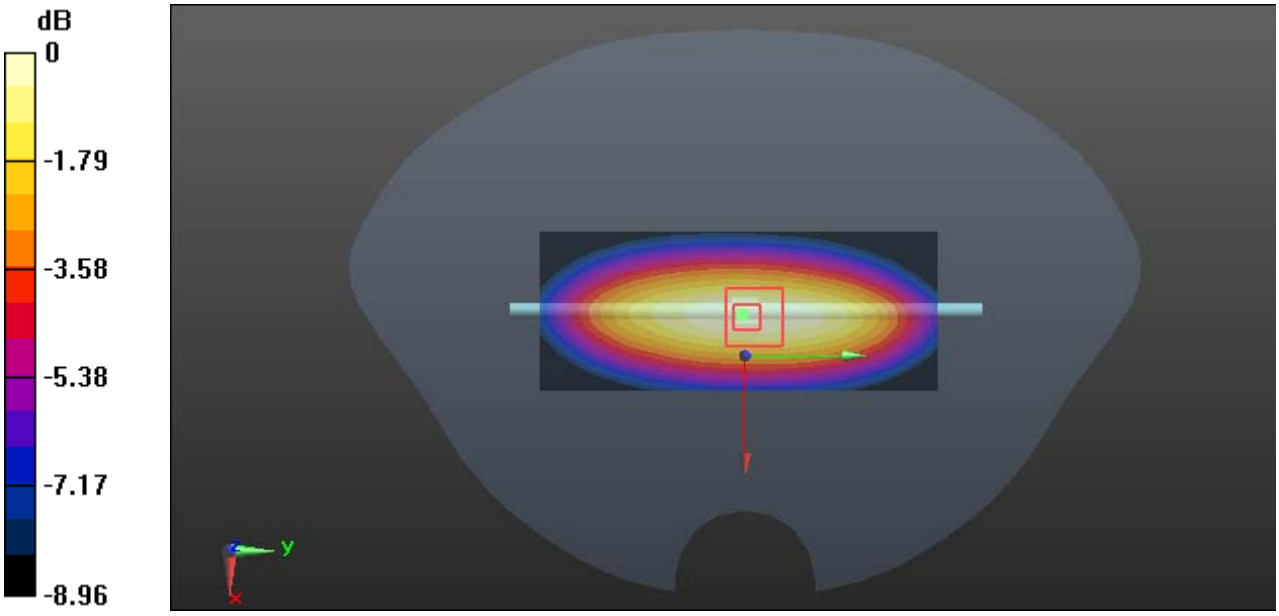
Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.881 S/m; ε_r = 41.388; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(10.05, 10.05, 10.05) @ 750 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.16 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.71 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.559 W/kg
Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

System Performance 750 MHz 2019/09/01

DUT: D750V3; Type: 750 MHz; Serial: 1167

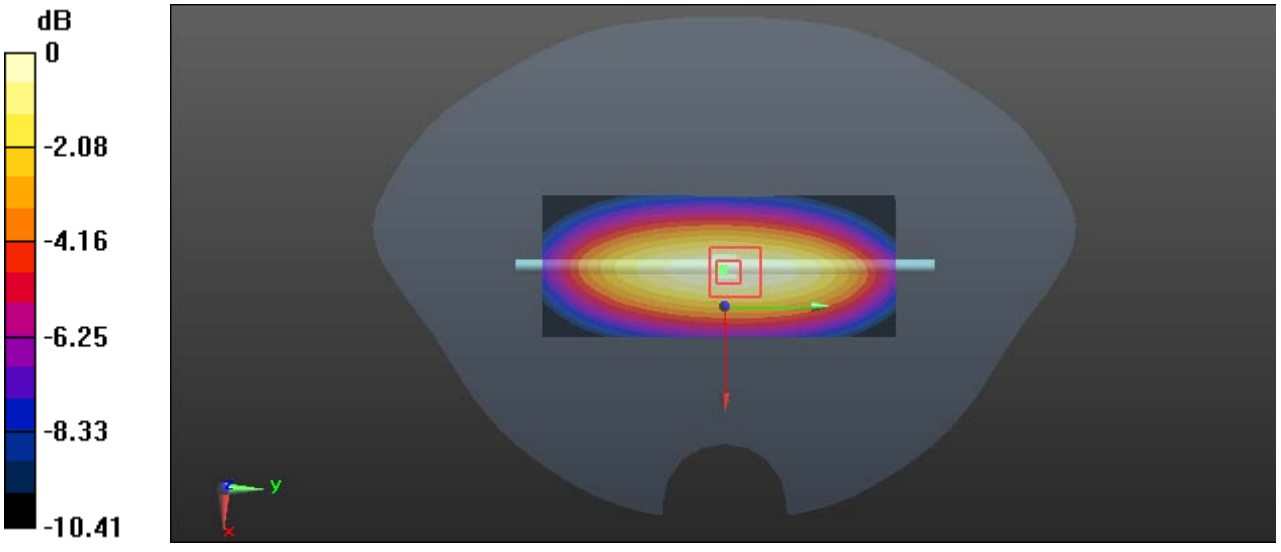
Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.879 S/m; ε_r = 42.953; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(10.05, 10.05, 10.05) @ 750 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.10 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.21 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.544 W/kg
Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

System Performance 1750 MHz

DUT: D1750V2; Type: 1750 MHz; Serial: 1141

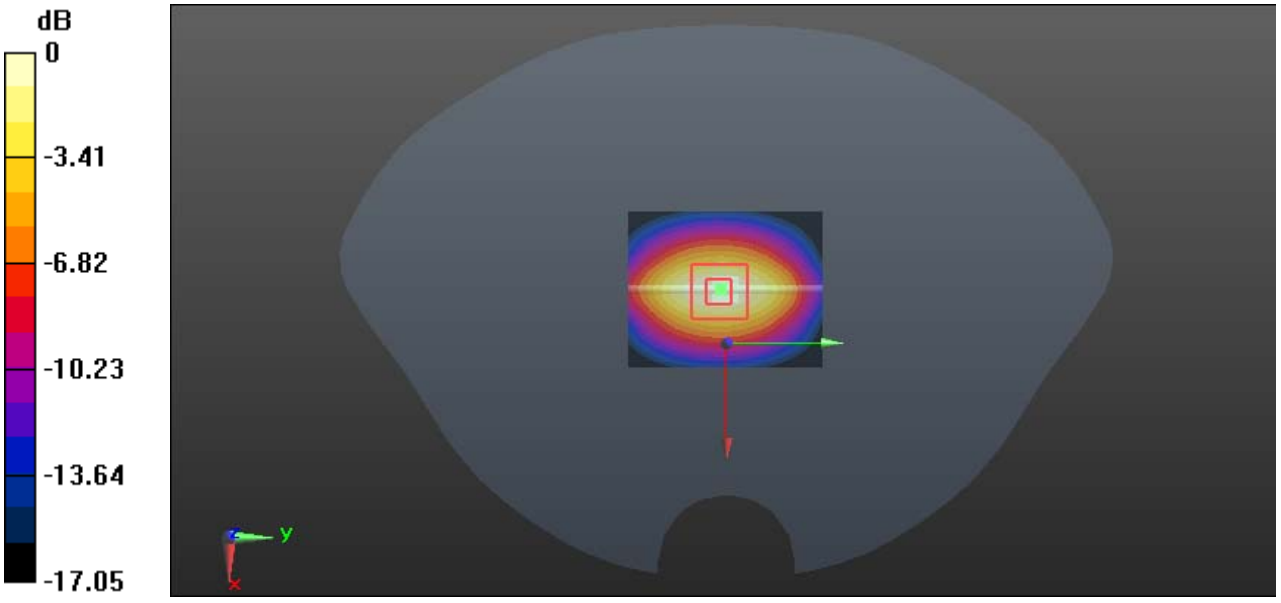
Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.35 S/m; ε_r = 41.046; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(8.31, 8.31, 8.31) @ 1750 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 5.79 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 52.61 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 7.06 W/kg
SAR(1 g) = 3.85 W/kg; SAR(10 g) = 2.08 W/kg
Maximum value of SAR (measured) = 5.89 W/kg



0 dB = 5.89 W/kg = 7.70 dBW/kg

System Performance 1900 MHz 2019/09/02

DUT: D1900V2; Type: 1900 MHz; Serial: 543

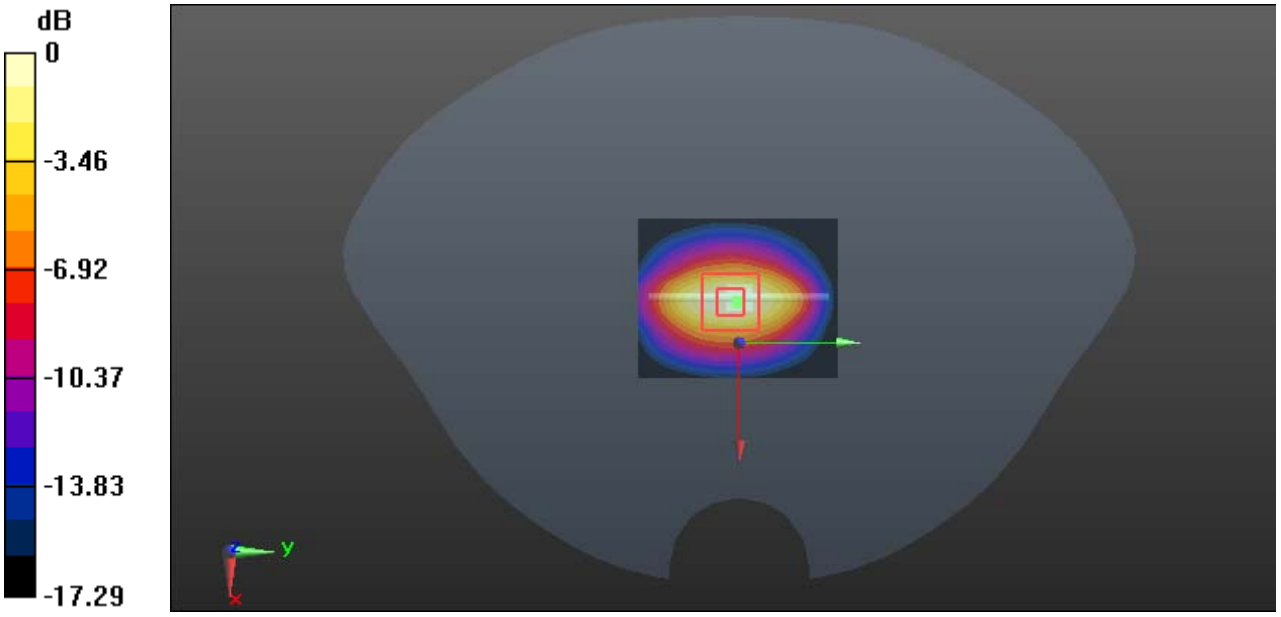
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.396 S/m; ε_r = 40.369; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(7.97, 7.97, 7.97) @ 1900 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 7.18 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.95 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 8.29 W/kg
SAR(1 g) = 4.19 W/kg; SAR(10 g) = 2.23 W/kg
Maximum value of SAR (measured) = 6.56 W/kg



0 dB = 6.56 W/kg = 8.17 dBW/kg

System Performance 1900 MHz 2019/09/03

DUT: D1900V2; Type: 1900 MHz; Serial: 543

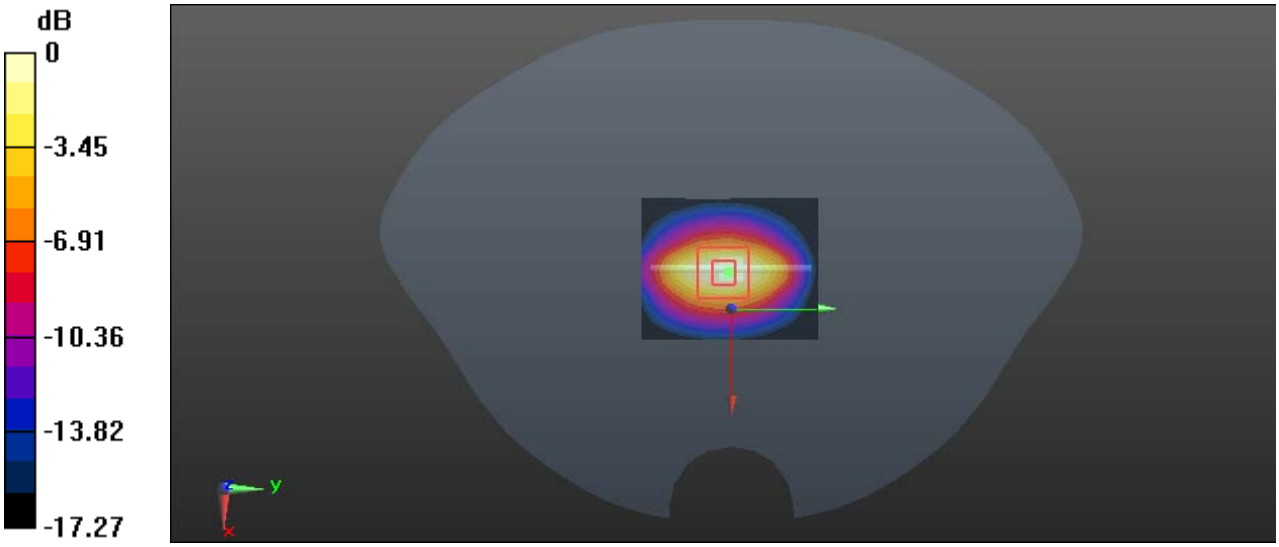
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.385 S/m; ε_r = 40.362; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(7.97, 7.97, 7.97) @ 1900 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 6.89 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.02 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 8.03 W/kg
SAR(1 g) = 4.07 W/kg; SAR(10 g) = 2.12 W/kg
Maximum value of SAR (measured) = 6.32 W/kg



0 dB = 6.32 W/kg = 8.01 dBW/kg

System Performance 2450 MHz on 2019/09/05

DUT: D2450V2; Type: 2450 MHz; Serial: 971

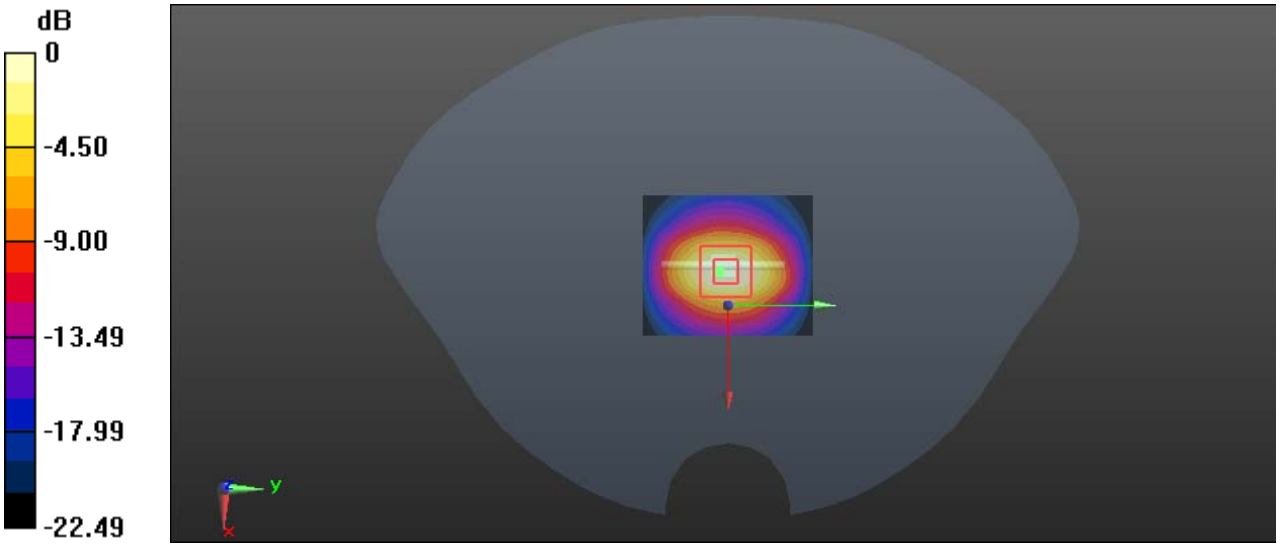
Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.761 S/m; ε_r = 40.083; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 9.08 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 57.32 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 10.8 W/kg
SAR(1 g) = 5.31 W/kg; SAR(10 g) = 2.54 W/kg
Maximum value of SAR (measured) = 8.65 W/kg



0 dB = 8.65 W/kg = 9.37 dBW/kg

System Performance 2450 MHz on 2019/09/25

DUT: D2450V2; Type: 2450 MHz; Serial: 971

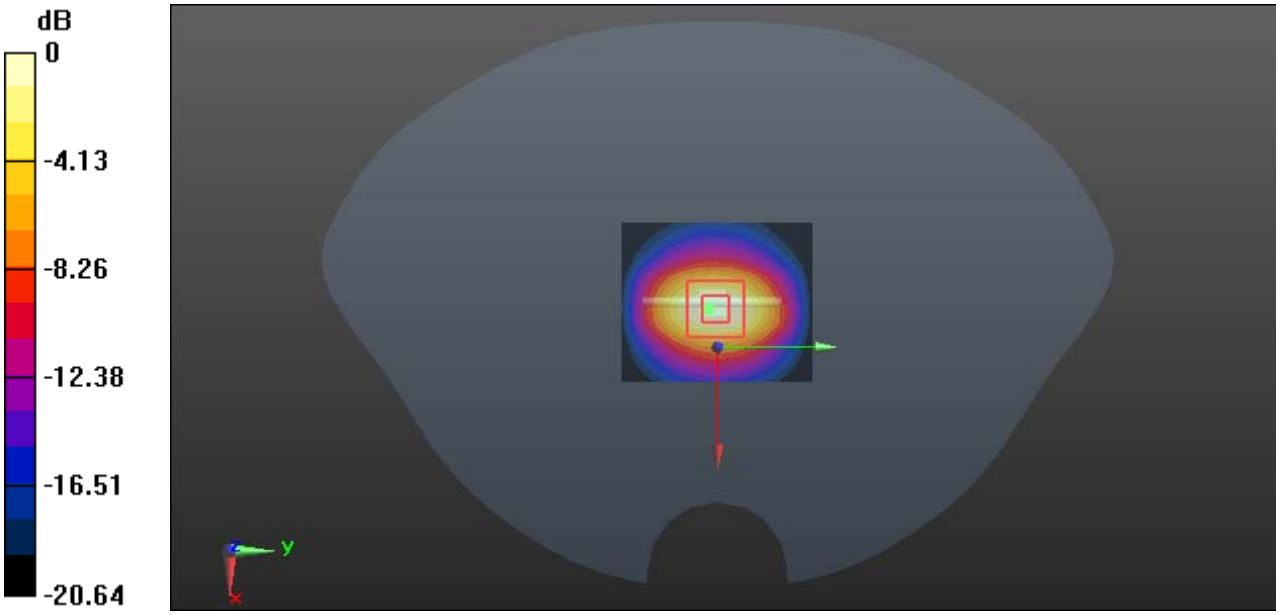
Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.809 S/m; ε_r = 38.953; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 10.1 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 58.76 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 11.7 W/kg
SAR(1 g) = 5.47 W/kg; SAR(10 g) = 2.58 W/kg
Maximum value of SAR (measured) = 9.09 W/kg



0 dB = 9.09 W/kg = 9.59 dBW/kg

System Performance 2600MHz

DUT: D2600V2; Type: 2600 MHz; Serial: 1132

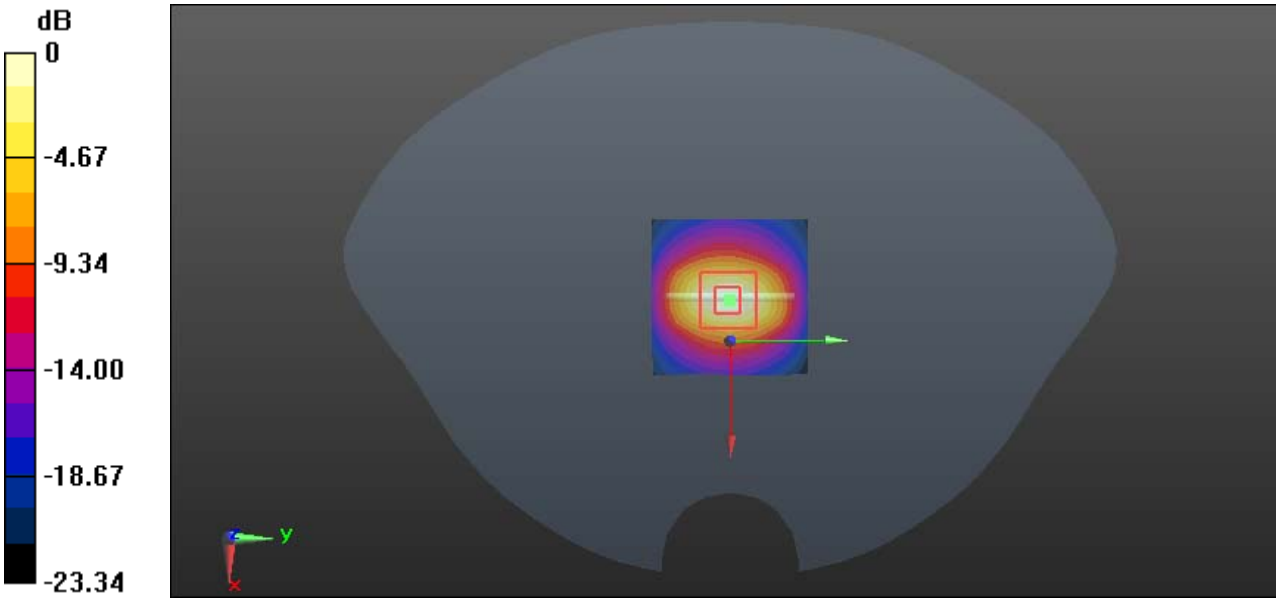
Communication System:CW; Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.895 S/m; ε_r = 40.153; ρ = 1000 kg/m^3
Phantom section: Flat Section

D ASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(7.29, 7.29, 7.29) @ 2600 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 11.7 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.21 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 12.8 W/kg
SAR(1 g) = 5.76 W/kg; SAR(10 g) = 2.62 W/kg
Maximum value of SAR (measured) = 10.2 W/kg



0 dB = 10.2 W/kg = 10.09 dBW/kg

System Performance 5250 MHz on 2019/09/02

DUT: D5GHzV2; Type: 5250 MHz; Serial: SN:1246

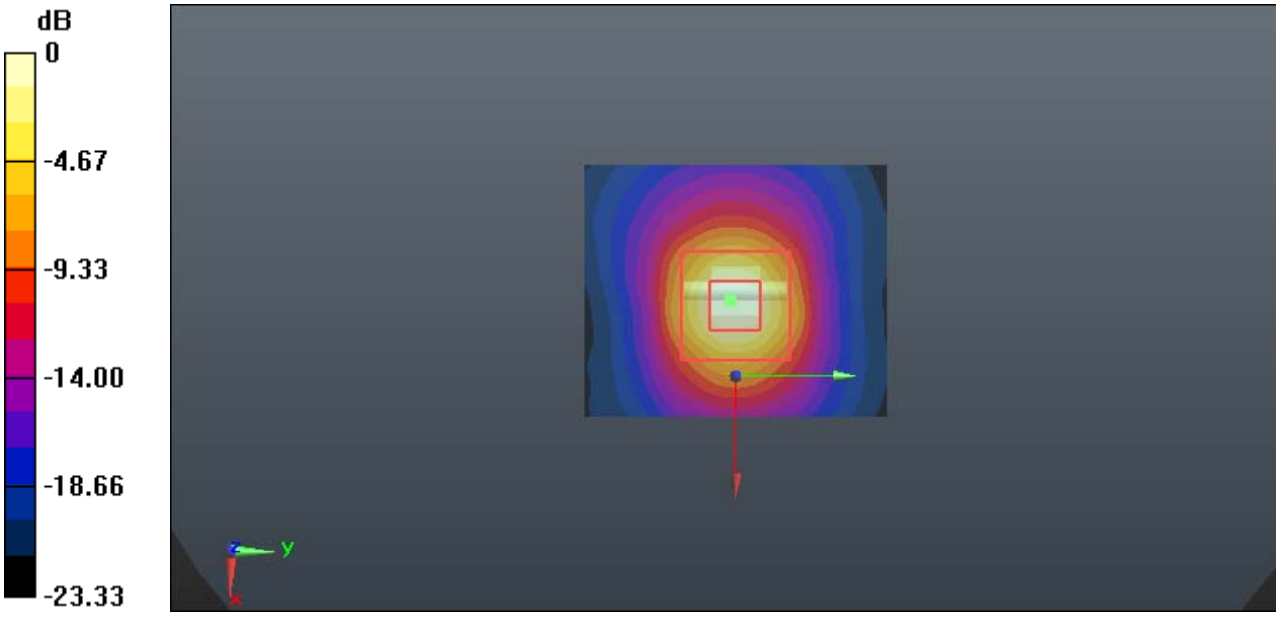
Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.578 S/m; ε_r = 36.06; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(5.88, 5.88, 5.88) @ 5250 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 20.2 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 42.95 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 29.2 W/kg
SAR(1 g) = 7.85 W/kg; SAR(10 g) = 2.31 W/kg
Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 19.2 W/kg = 12.83 dBW/kg

System Performance 5250 MHz on 2019/09/25

DUT: D5GHzV2; Type: 5250 MHz; Serial: SN:1246

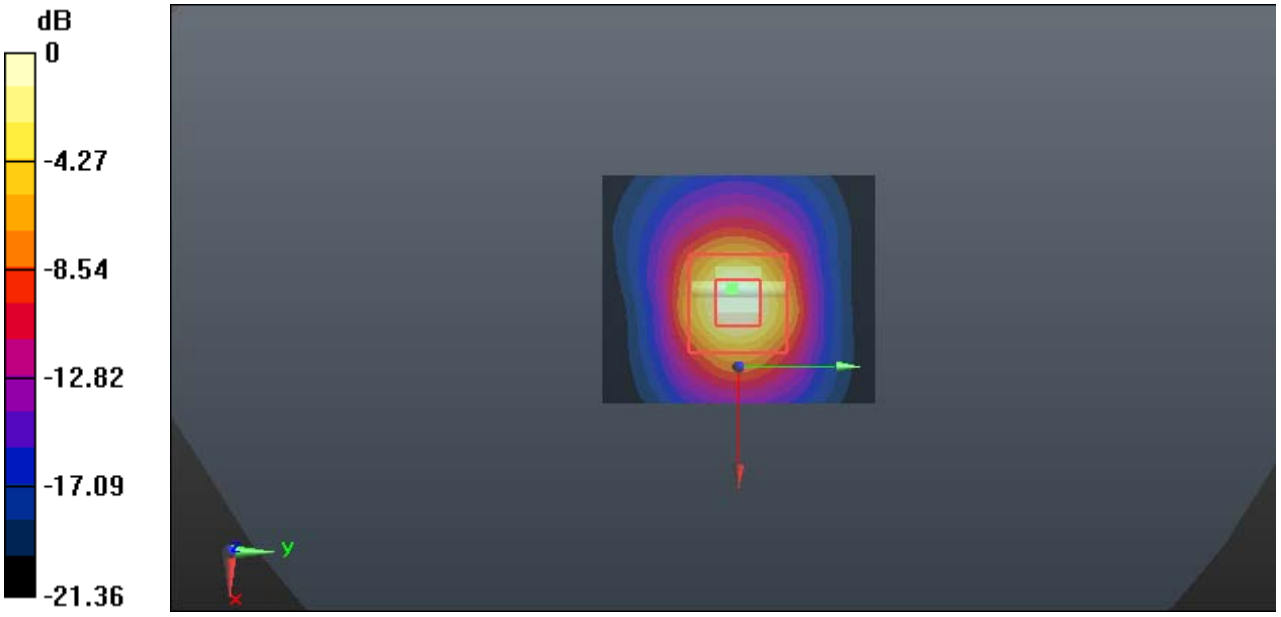
Communication System: CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.621 S/m; ε_r = 36.513; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(5.88, 5.88, 5.88) @ 5250 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 19.8 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 41.68 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 28.7 W/kg
SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.28 W/kg
Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg = 12.65 dBW/kg

System Performance 5800 MHz on 2019/09/02

DUT: D5GHzV2; Type: 5800 MHz; Serial: SN:1246

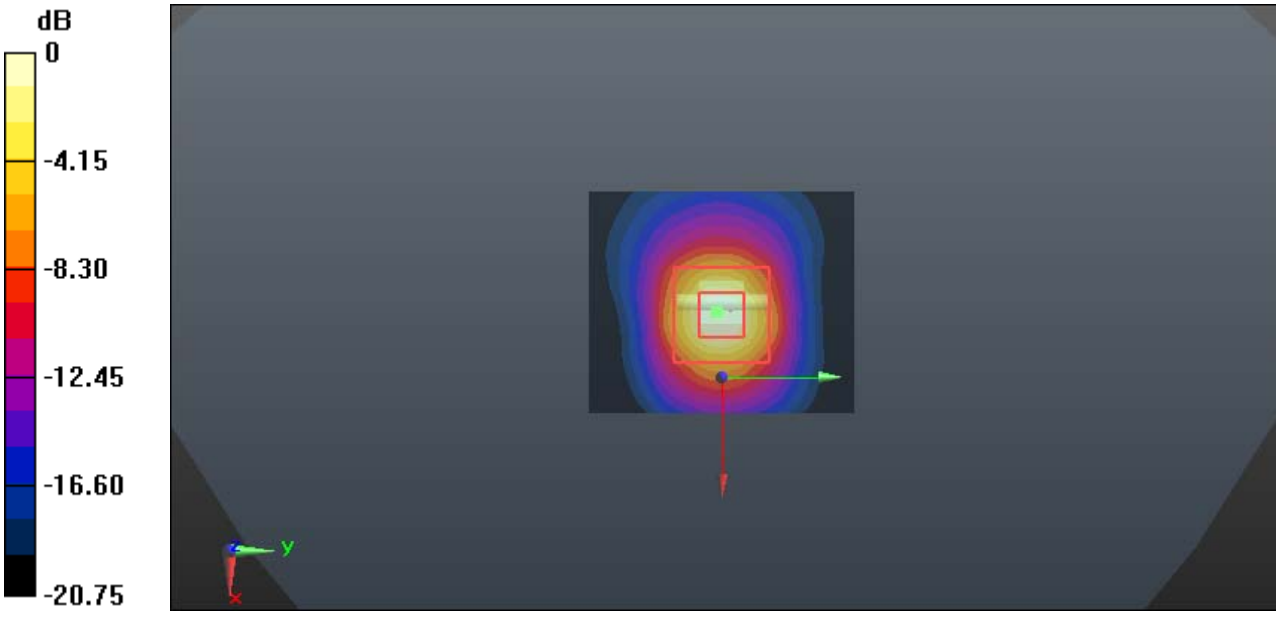
Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.452 S/m; ε_r = 35.564; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(5.08, 5.08, 5.08) @ 5800 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 24.3 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 44.61 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 39.5 W/kg
SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.31 W/kg
Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

System Performance 5800 MHz on 2019/09/25

DUT: D5GHzV2; Type: 5800 MHz; Serial: SN:1246

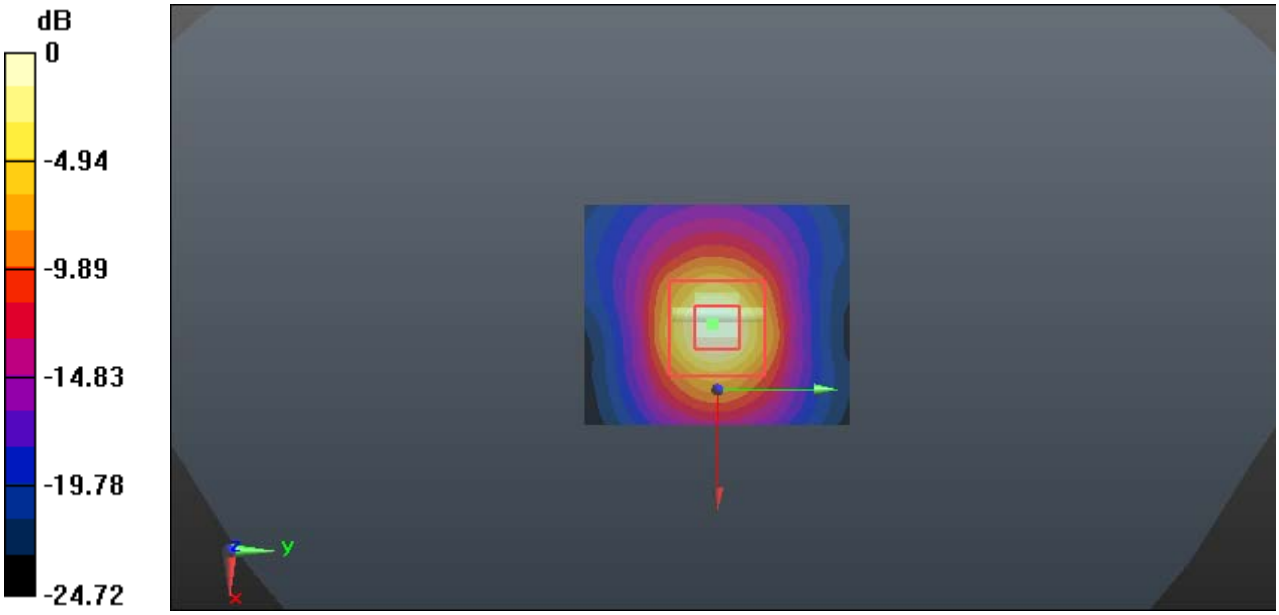
Communication System: CW; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.342 S/m; ε_r = 35.683; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(5.08, 5.08, 5.08) @ 5800 MHz; Calibrated: 2018/12/13;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2018/12/3
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 23.8 W/kg

Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 44.15 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 38.6 W/kg
SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.25 W/kg
Maximum value of SAR (measured) = 21.3 W/kg



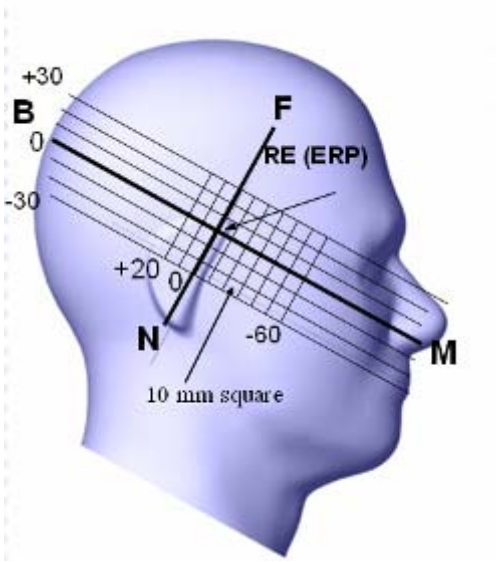
0 dB = 21.3 W/kg = 13.28 dBW/kg

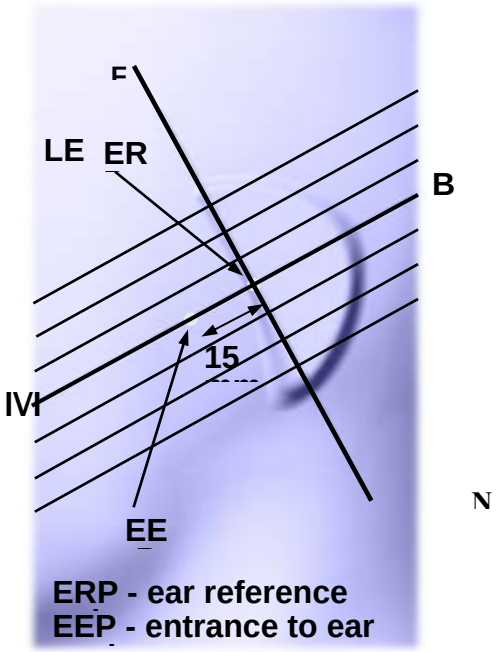
EUT TEST STRATEGY AND METHODOLOGY

Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point". The "test device reference point" should be located at the same level as the center of the earpiece region. The "vertical centerline" should bisect the front surface of the handset at its top and bottom edges. A "ear reference point" is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the "phantom reference plane" defined by the three lines joining the center of each "ear reference point" (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane". This is called the "initial ear position". While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:





Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the "ear reference point" or along the "N-F" line for the SCC-34/SC-2 head phantom.

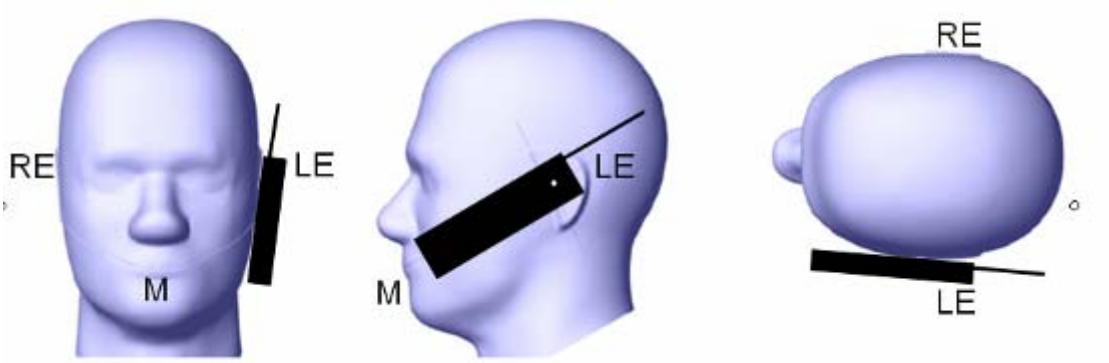
This test position is established:

When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek /Touch Position



Ear/Tilt Position

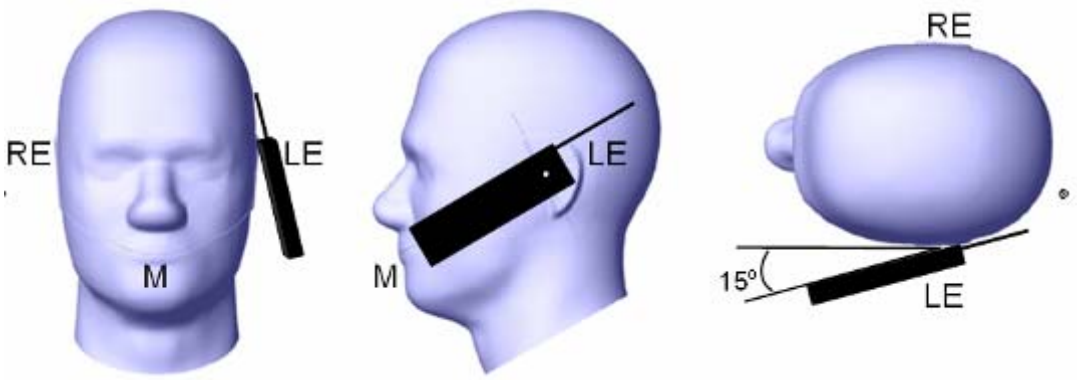
With the handset aligned in the "Cheek/Touch Position":

1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.

2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the "test device reference point" until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point is by 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the "Cheek/Touch" and "Ear/Tilt" positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

Ear /Tilt 15° Position



Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

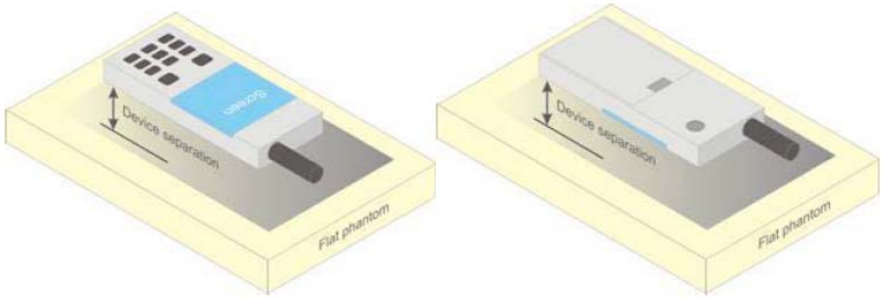


Figure 5 – Test positions for body-worn devices

Test Distance for SAR Evaluation

In this case the EUT(Equipment Under Test) is set directly against the phantom, the test distance is 0mm for sensor triggered mode; for sensor not triggered mode, 20mm away from the phantom for body back, 15mm away from the phantom for body top,10mm away from the phantom for body left and right.

SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the “Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

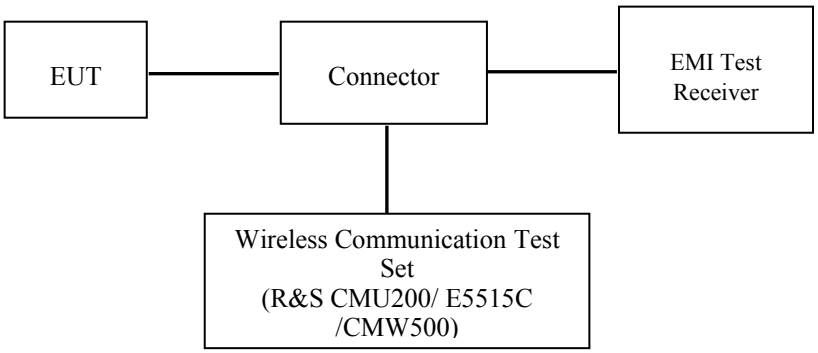
CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the EMI Test Receiver through Connector.



GSM/WCDMA/LTE

Radio Configuration

The power measurement was configured by the Wireless Communication Test Set.

GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900
Press Connection control to choose the different menus
Press RESET > choose all the reset all settings
Connection Press Signal Off to turn off the signal and change settings
Network Support > GPRS
Main Service > Packet Data
Service selection > Test Mode A – Auto Slot Config. off
MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting
> Slot configuration > Uplink/Gamma
> 33 dBm for GPRS 850
> 30 dBm for GPRS 1900
> 27 dBm for EGPRS 850
> 26 dBm for EGPRS 1900
BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel
Frequency Offset > + 0 Hz
Mode > BCCH and TCH
BCCH Level > -85 dBm (May need to adjust if link is not stabe)
BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off
P0 > 4 dB
Slot Config >Unchanged (if already set under MS signal)
TCH > choose desired test channel
Hopping > Off

Main Timeslot > 3
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)
Bit Stream >2E9-1 PSR Bit Stream
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection Press Signal on to turn on the signal and change settings

CDMA 1x RTT

Maximum output power is verified on the high, middle and low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. Steps 3 and 4 are measured using Loopback Service Option SO55 with power control bits in "All Up" condition. Step 10 is measured using TDSO/SO32 with power control bits in the "Bits Hold" condition (i.e. alternative Up/Down Bits).

Table 4.4.5.2-1. Test Parameters for Maximum RF Output Power with a Single Traffic Code Channel, Spreading Rate 1

Parameter	Units	Value
$\hat{I}_{or}$	dBm/1.23 MHz	-104
$\frac{\text{Pilot } E_c}{I_{or}}$	dB	-7
$\frac{\text{Traffic } E_c}{I_{or}}$	dB	-7.4

Table 4.4.5.2-2. Test Parameters for Maximum RF Output Power with Multiple Traffic Code Channels, Spreading Rate 1

Parameter	Units	Value
$\frac{\text{Pilot } E_c}{I_{or}}$	dB	-7
$\frac{\text{Traffic } E_c}{I_{or}}$	dB	-7.4

EVDO

Maximum output power is verified on the high, middle and low channels according to procedures in section 3.1.2.3.4 of 3GPP2 C.S0033-0/TIA-866 for Rev. 0, section 4.3.4 of 3GPP2 C.S0033-A for Rev. A.

Maximum output power is measured for Rev. 0 and Rev. A in Subtype 0/1 and Subtype 2 Physical Layer configurations, respectively.

WCDMA Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_d(SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
HSDPA Specific Settings	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	Ahs=βhs/ βc	30/15			

HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	**1**	**2**	**3**	**4**	**5**
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
	MPR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$Ahs=\beta_{hs}/\beta_c$	30/15				
HSUPA Specific Settings	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_FCIs	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	

FDD-LTE

For UE Power Class 1 and 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2-1due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1.

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

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

For UE Power Class 1 and 3 the specific requirements and identified sub clauses are specified in Table 6.2.4-1 along with the allowed A-MPR values that may be used to meet these requirements. The allowed A-MPR values specified below in Table 6.2.4.-1 to 6.2.4-15 are in addition to the allowed MPR requirements specified in sub clause 6.2.3.

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	N/A
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	
NS_11	6.6.2.2.1	23	1.4, 3, 5, 10, 15, 20	Table 6.2.4-5	
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4-6	
NS_13	6.6.3.3.6	26	5	Table 6.2.4-7	
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4-8	
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4-9 Table 6.2.4-10	
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4-11, Table 6.2.4-12, Table 6.2.4-13	
NS_17	6.6.3.3.10	28	5, 10	Table 5.6-1	N/A
NS_18	6.6.3.3.11	28	5	≥ 2	≤ 1
			10, 15, 20	≥ 1	≤ 4
NS_19	6.6.3.3.12	44	10, 15, 20	Table 6.2.4-14	
NS_20	6.2.2 6.6.2.2.1 6.6.3.2	23	5, 10, 15, 20	Table 6.2.4-15	
...					
NS_32	-	-	-	-	-

TDD-LTE

3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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

Table 4.2-2: Uplink-downlink configurations.

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

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle = Extended cyclic prefix in uplink x (T_s) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
where
T_s = 1/(15000 x 2048) seconds

Maximum Target Output Power

Max Target Power(dBm)				
Mode/Band		Channel		
		Low	Middle	High
Sensor NOT Triggered	GPRS 850 1 TX Slot	32.4	32.4	32.4
	GPRS 850 2 TX Slot	32.4	32.4	32.4
	GPRS 850 3 TX Slot	31.6	31.6	31.6
	GPRS 850 4 TX Slot	29.5	29.5	29.5
	EDGE 850 1 TX Slot	29.3	29.3	29.3
	EDGE 850 2 TX Slot	26.5	26.5	26.5
	EDGE 850 3 TX Slot	24	24	24
	EDGE 850 4 TX Slot	23.3	23.3	23.3
	GPRS 1900 1 TX Slot	29.3	29.3	29.3
	GPRS 1900 2 TX Slot	27.6	27.6	27.6
	GPRS 1900 3 TX Slot	26.5	26.5	26.5
	GPRS 1900 4 TX Slot	24.4	24.4	24.4
	EDGE 1900 1 TX Slot	25.6	25.6	25.6
	EDGE 1900 2 TX Slot	24.5	24.5	24.5
	EDGE 1900 3 TX Slot	22.4	22.4	22.4
	EDGE 1900 4 TX Slot	21.2	21.2	21.2
	CDMA BC0(CDMA 1x RTT)	23.5	23.5	23.5
	CDMA BC0(EVDO)	24.4	24.4	24.4
	CDMA BC1(CDMA 1x RTT)	22.5	22.5	22.5
	CDMA BC1(EVDO)	23.4	23.4	23.4
	WCDMA Band 2	23.5	23.5	23.5
	HSDPA	22.4	22.4	22.4
	HSUPA	22.5	22.5	22.5
	WCDMA Band 4	23.5	23.5	23.5
	HSDPA	22.7	22.7	22.7
	HSUPA	22.6	22.6	22.6
	WCDMA Band 5	22.4	22.4	22.4
	HSDPA	21.4	21.4	21.4
	HSUPA	21.5	21.5	21.5
	LTE Band 2	21.6	21.6	21.6
	LTE Band 4	21.6	21.6	21.6
	LTE Band 5	21.7	21.7	21.7
	LTE Band 7	21.5	21.5	21.5
	LTE Band 12	21.6	21.6	21.6
	LTE Band 17	21.6	21.6	21.6
	LTE Band 25	21.7	21.7	21.7
	LTE Band 26	21.7	21.7	21.7
	LTE Band 38	22.6	22.6	22.6
	LTE Band 41	22.6	22.6	22.6

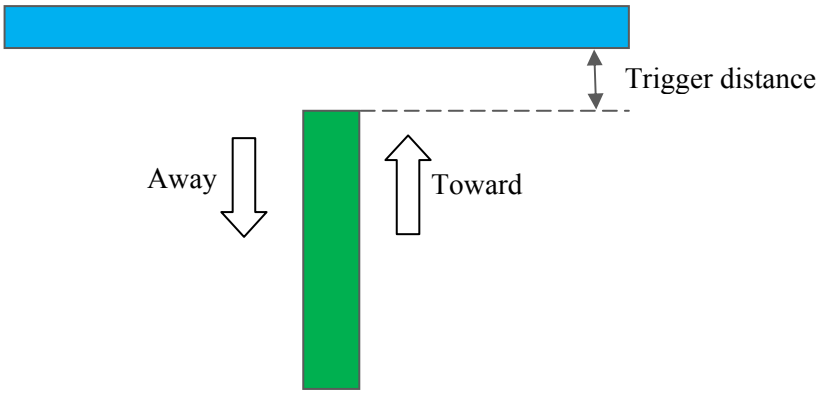
Max Target Power(dBm)				
Mode/Band		Channel		
		Low	Middle	High
Sensor Triggered	GPRS 850 1 TX Slot	28	28	28
	GPRS 850 2 TX Slot	27	27	27
	GPRS 850 3 TX Slot	26	26	26
	GPRS 850 4 TX Slot	24.7	24.7	24.7
	EDGE 850 1 TX Slot	22	22	22
	EDGE 850 2 TX Slot	20	20	20
	EDGE 850 3 TX Slot	19	19	19
	EDGE 850 4 TX Slot	18	18	18
	GPRS 1900 1 TX Slot	25	25	25
	GPRS 1900 2 TX Slot	23	23	23
	GPRS 1900 3 TX Slot	21.7	21.7	21.7
	GPRS 1900 4 TX Slot	19.8	19.8	19.8
	EDGE 1900 1 TX Slot	21	21	21
	EDGE 1900 2 TX Slot	20	20	20
	EDGE 1900 3 TX Slot	18	18	18
	EDGE 1900 4 TX Slot	17	17	17
	CDMA BC0(CDMA 1x RTT)	18.7	18.7	18.7
	CDMA BC0(EVDO)	19.8	19.8	19.8
	CDMA BC1(CDMA 1x RTT)	17.7	17.7	17.7
	CDMA BC1(EVDO)	18.7	18.7	18.7
	WCDMA Band 2	18.9	18.9	18.9
	HSDPA	18	18	18
	HSUPA	18	18	18
	WCDMA Band 4	18.8	18.8	18.8
	HSDPA	18	18	18
	HSUPA	18	18	18
	WCDMA Band 5	17.6	17.6	17.6
	HSDPA	17	17	17
	HSUPA	17	17	17
	LTE Band 2	17	17	17
	LTE Band 4	17	17	17
	LTE Band 5	17	17	17
	LTE Band 7	16.8	16.8	16.8
	LTE Band 12	17	17	17
	LTE Band 17	17	17	17
	LTE Band 25	17	17	17
	LTE Band 26	17	17	17
	LTE Band 38	18	18	18
	LTE Band 41	18	18	18

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
WLAN 2.4G(802.11b)	13.5	13.5	13.5
WLAN 2.4G (802.11g)	13	13	13
WLAN 2.4G (802.11n HT20)	13	13	13
WLAN 2.4G (802.11n HT40)	13	13	13
WLAN 5.2G(802.11a)	12.3	12.3	12.3
WLAN 5.2G(802.11n HT20)	12.3	12.3	12.3
WLAN 5.2G(802.11n HT40)	12.3	12.3	12.3
WLAN 5.8G(802.11a)	11.5	11.5	11.5
WLAN 5.8G(802.11n HT20)	11.5	11.5	11.5
WLAN 5.8G(802.11n HT40)	11.5	11.5	11.5
Bluetooth BDR/EDR	9	9	9
Bluetooth LE	-1	-1	-1

Note: The device employed a proximity sensor for WWAN.

Proximity Sensor Operation

A Proximity sensor for power reduction is implemented in this device to address RF exposure compliance when the WWAN antenna is positioned close to the user's body. This design combines the antenna and proximity sensor into a single FPC (Flexible Printed Circuit). The sensor operation area is the top side of the device.



The minimum detection distances determined as below:

Proximity Sensor Status Table

Distance(mm)		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Back edge	Toward	on	on	on	on	on	on	on	on	on	on	on	on	on	on	off	off
	Away	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	off
Top edge	Toward	on	on	on	on	on	on	on	on	on	off	off	off	off	off	off	off
	Away	on	on	on	on	on	on	on	on	on	on	off	off	off	off	off	off
Left edge	Toward	on	on	on	on	off	off	off	off	off	off	off	off	off	off	off	off
	Away	on	on	on	on	on	off	off	off	off	off	off	off	off	off	off	off
Right edge	Toward	on	on	on	on	off	off	off	off	off	off	off	off	off	off	off	off
	Away	on	on	on	on	on	off	off	off	off	off	off	off	off	off	off	off

Note: each side minimum detection distance was performed with below:
Toward: moving toward the phantom
Away: Moving away from the phantom

Summary of trigger distances:

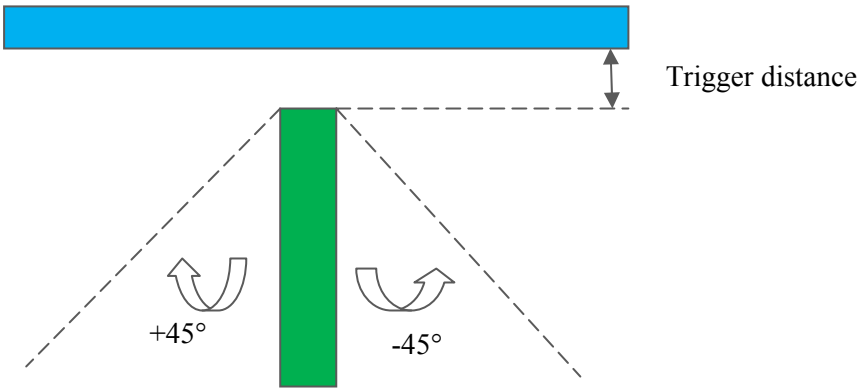
Band(MHz)	Back edge		Top edge		Left edge		Right edge	
	Toward	Away	Toward	Away	Toward	Away	Toward	Away
750 MHz	21	21	16	16	11	11	11	11
1750 MHz	21	21	16	16	11	11	11	11
1900 MHz	21	21	16	16	11	11	11	11
2450 MHz	21	21	16	16	11	11	11	11
2600 MHz	21	21	16	16	11	11	11	11
5250 MHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5800 MHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note:The P-sensor located in WWAN main antenna.

Tilt angle

The influence of device tilt angles to proximity sensor triggering was determined by positioning each device edge that contains a transmitting antenna, perpendicular to the flat phantom, at 22mm separation.

Rotating the device around the edge next to the phantom in ≤ 10° increments until the device is ± 45° from the vertical position at 0°. And the maximum output power remains in the reduced mode.



Proximity Sensor Status Table

Band	Minimum Distance(mm)	-45	-40	-30	-20	-10	0	10	20	30	40	45
750 MHz	21	on	on	on	on	on	on	on	on	on	on	on
1750 MHz	21	on	on	on	on	on	on	on	on	on	on	on
1900 MHz	21	on	on	on	on	on	on	on	on	on	on	on
2450 MHz	21	on	on	on	on	on	on	on	on	on	on	on
2600 MHz	21	on	on	on	on	on	on	on	on	on	on	on

Resulting test positions for SAR measurements

Wireless Technologies	Position	Triggering Distance(mm)	Worst case distance for SAR(mm)
WWAN	Back	21	20
	Top	16	15
	Left	11	10
	Right	11	10

Test Results:

GPRS (Sensor NOT Triggered):

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	32.07	30.98	29.80	29.19
	190	836.6	32.22	30.94	30.29	29.21
	251	848.8	**32.28**	31.47	29.77	29.08
PCS 1900	512	1850.2	28.87	27.23	26.37	24.20
	661	1880	**29.21**	27.29	26.21	23.89
	810	1909.8	29.03	27.45	26.08	24.27

EDGE(Sensor NOT Triggered):

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	26.35	23.90	22.96	22.24
	190	836.6	25.87	23.87	22.80	22.02
	251	848.8	26.04	23.94	23.23	21.94
PCS 1900	512	1850.2	24.78	24.35	21.69	21.11
	661	1880	25.46	23.73	22.26	20.78
	810	1909.8	25.25	24.26	21.98	20.91

GPRS(Sensor Triggered):

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	27.25	26.31	24.99	24.52
	190	836.6	27.39	26.22	25.57	24.51
	251	848.8	27.53	26.68	25.12	24.40
PCS 1900	512	1850.2	24.14	22.57	21.55	19.47
	661	1880	24.54	22.50	21.45	19.10
	810	1909.8	24.34	22.71	21.36	19.55

EDGE(Sensor Triggered):

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	21.67	19.08	18.14	17.51
	190	836.6	21.19	19.14	17.99	17.23
	251	848.8	21.39	19.22	18.55	17.25
PCS 1900	512	1850.2	19.94	19.60	16.84	16.30
	661	1880	20.69	19.05	17.46	16.01
	810	1909.8	20.40	19.54	17.25	16.19

For SAR, the time based average power is relevant, the difference in between depends on the duty cycle of the TDMA signal.

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Time based Ave. power compared to slotted Ave. power	-9 dB	-6 dB	-4.25 dB	-3 dB
Crest Factor	8	4	2.66	2

The time based average power for GPRS(Sensor NOT Triggered)

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	23.07	24.98	25.55	26.19
	190	836.6	23.22	24.94	26.04	**26.21**
	251	848.8	23.28	25.47	25.52	26.08
PCS 1900	512	1850.2	19.87	21.23	**22.12**	21.2
	661	1880	20.21	21.29	21.96	20.89
	810	1909.8	20.03	21.45	21.83	21.27

The time based average power for EDGE(Sensor NOT Triggered)

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	17.35	17.9	18.71	19.24
	190	836.6	16.87	17.87	18.55	19.02
	251	848.8	17.04	17.94	18.98	18.94
PCS 1900	512	1850.2	15.78	18.35	17.44	18.11
	661	1880	16.46	17.73	18.01	17.78
	810	1909.8	16.25	18.26	17.73	17.91

The time based average power for GPRS(Sensor Triggered)

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	18.25	20.31	20.74	**21.52**
	190	836.6	18.39	20.22	21.32	21.51
	251	848.8	18.53	20.68	20.87	21.40
PCS 1900	512	1850.2	15.14	16.57	**17.30**	16.47
	661	1880	15.54	16.50	17.20	16.10
	810	1909.8	15.34	16.71	17.11	16.55

The time based average power for EDGE(Sensor Triggered)

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	12.67	13.08	13.89	14.51
	190	836.6	12.19	13.14	13.74	14.23
	251	848.8	12.39	13.22	14.30	14.25
PCS 1900	512	1850.2	10.94	13.60	12.59	13.30
	661	1880	11.69	13.05	13.21	13.01
	810	1909.8	11.40	13.54	13.00	13.19

Note:

1. Rohde & Schwarz Radio Communication Tester (CMU200) was used for the measurement of GSM peak and average output power for active timeslots.
2 .For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).
3. According to KDB941225D01-SAR for EGPRS mode are not required when the source-based time-averaged output power for data mode is lower than that in the normal GPRS mode.

CDMA 1x RTT(Sensor NOT Triggered)

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			RC1+SO55	RC3+SO55	RC3+SO32 (FCH)	RC3+SO32 (SCH)
BC0	1013	824.70	22.98	23.14	22.93	23.15
	384	836.52	23.14	23.18	23.16	23.06
	777	848.31	**23.31**	23.28	22.82	22.90
BC1	25	1851.25	21.93	**22.20**	22.17	21.94
	600	1880	22.02	22.12	21.88	22.14
	1175	1908.75	22.16	21.91	22.05	22.02

EVDO(Sensor NOT Triggered)

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)	
			RTAP 153.6kbps Subtype 0	RETAP 4096pbs Subtype 2
BC0	1013	824.70	24.01	23.67
	384	836.52	**24.22**	24.10
	777	848.31	24.05	23.93
BC1	25	1851.25	23.10	23.19
	600	1880	**23.25**	22.80
	1175	1908.75	23.20	23.21

CDMA 1x RTT(SensorTriggered)

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			RC1+SO55	RC3+SO55	RC3+SO32 (FCH)	RC3+SO32 (SCH)
BC0	1013	824.70	18.23	18.41	18.28	18.47
	384	836.52	18.39	18.34	18.50	18.29
	777	848.31	**18.54**	18.52	18.04	18.19
BC1	25	1851.25	17.14	17.49	17.43	17.23
	600	1880	17.29	17.38	17.19	17.48
	1175	1908.75	**17.50**	17.30	17.24	17.23

EVDO(SensorTriggered)

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)	
			RTAP 153.6kbps Subtype 0	RETAP 4096pbs Subtype 2
BC0	1013	824.70	19.41	19.00
	384	836.52	**19.56**	19.32
	777	848.31	19.36	19.15
BC1	25	1851.25	18.41	18.52
	600	1880	**18.57**	17.99
	1175	1908.75	18.50	18.54

WCDMA(Sensor NOT Triggered):
Results (12.2kbps RMC)

Band	Frequency (MHz)	RF Output Power (dBm)
WCDMA Band 2	1852.4	23.30
	1880	**23.45**
	1907.6	23.34
WCDMA Band 4	1712.4	23.34
	1732.6	**23.41**
	1752.6	23.28
WCDMA Band 5	826.4	**22.28**
	836.6	22.10
	846.6	22.18

Results (HSDPA)

Band	Frequency (MHz)	RF Output Power (dBm)			
		Subset 1	Subset 2	Subset 3	Subset 4
WCDMA Band 2	1852.4	22.07	22.14	22.27	22.32
	1880	22.23	22.29	21.98	22.15
	1907.6	21.75	22.04	22.09	22.09
WCDMA Band 4	1712.4	22.57	22.12	22.38	22.48
	1732.6	22.18	22.14	22.33	21.65
	1752.6	22.16	21.85	21.85	21.77
WCDMA Band 5	826.4	21.28	21.19	21.21	20.63
	836.6	21.20	20.84	20.99	21.06
	846.6	20.66	21.01	20.90	21.33

Results (HSUPA)

Band	Frequency (MHz)	RF Output Power (dBm)				
		Subset 1	Subset 2	Subset 3	Subset 4	Subset 5
WCDMA Band 2	1852.4	21.85	21.62	22.28	21.91	21.85
	1880	21.96	22.03	22.40	22.08	21.82
	1907.6	21.96	22.06	21.89	21.61	21.74
WCDMA Band 4	1712.4	22.15	22.46	21.88	22.01	21.99
	1732.6	22.08	22.25	21.88	22.10	22.01
	1752.6	22.08	22.11	22.13	21.86	21.98
WCDMA Band 5	826.4	21.01	21.10	20.68	21.15	21.42
	836.6	21.26	21.00	21.40	20.81	21.32
	846.6	21.13	20.83	21.29	20.78	21.18

WCDMA(SensorTriggered):
Results (12.2kbps RMC)

Band	Frequency (MHz)	RF Output Power (dBm)
WCDMA Band 2	1852.4	18.65
	1880	**18.76**
	1907.6	18.54
WCDMA Band 4	1712.4	18.49
	1732.6	**18.68**
	1752.6	18.53
WCDMA Band 5	826.4	**17.45**
	836.6	17.39
	846.6	17.34

Results (HSDPA)

Band	Frequency (MHz)	RF Output Power (dBm)			
		Subset 1	Subset 2	Subset 3	Subset 4
WCDMA Band 2	1852.4	17.28	17.41	17.47	17.62
	1880	17.42	17.64	17.17	17.33
	1907.6	17.10	17.21	17.40	17.28
WCDMA Band 4	1712.4	17.82	17.43	17.68	17.64
	1732.6	17.51	17.30	17.58	16.87
	1752.6	17.41	17.02	17.10	16.99
WCDMA Band 5	826.4	16.55	16.43	16.51	15.78
	836.6	16.41	16.15	16.20	16.32
	846.6	15.93	16.26	16.22	16.66

Results (HSUPA)

Band	Frequency (MHz)	RF Output Power (dBm)				
		Subset 1	Subset 2	Subset 3	Subset 4	Subset 5
WCDMA Band 2	1852.4	17.06	16.92	17.47	17.08	17.06
	1880	17.24	17.35	17.59	17.26	17.24
	1907.6	17.15	17.33	17.22	16.95	17.15
WCDMA Band 4	1712.4	17.31	17.69	17.04	17.36	17.31
	1732.6	17.41	17.57	17.15	17.29	17.41
	1752.6	17.24	17.39	17.46	17.16	17.24
WCDMA Band 5	826.4	16.17	16.26	15.87	16.41	16.17
	836.6	16.43	16.19	16.71	16.16	16.43
	846.6	16.47	16.04	16.50	16.05	16.47

Note:

1. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model 1.
2. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

LTE Band 2(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	20.92	21.30	21.04
		1#3	0	0	21.20	21.32	21.37
		1#5	0	0	21.23	20.69	21.11
		3#0	1	1	21.35	20.86	21.21
		3#1	1	1	20.88	20.69	21.22
		3#3	1	1	20.91	21.02	21.05
		6#0	1	1	20.86	21.54	20.91
	16-QAM	1#0	1	1	20.83	21.06	20.91
		1#3	1	1	21.16	21.05	21.08
		1#5	1	1	21.26	21.11	20.81
		3#0	2	2	21.25	21.07	21.04
		3#1	2	2	21.32	21.04	21.27
		3#3	2	2	20.97	20.70	20.78
		6#0	2	2	21.35	21.29	20.80
3M	QPSK	1#0	0	0	21.49	21.10	20.59
		1#7	0	0	21.40	20.63	21.47
		1#14	0	0	21.06	21.09	20.93
		8#0	1	1	21.21	21.42	20.97
		8#4	1	1	20.74	21.04	21.24
		8#7	1	1	20.58	21.09	20.91
		15#0	1	1	20.74	21.34	20.95
	16-QAM	1#0	1	1	20.71	20.99	20.78
		1#7	1	1	21.33	20.61	20.83
		1#14	1	1	21.40	21.07	20.79
		8#0	2	2	20.86	20.75	20.68
		8#4	2	2	20.82	21.05	20.99
		8#7	2	2	21.16	21.03	21.03
		15#0	2	2	21.32	21.34	21.13
5M	QPSK	1#0	0	0	21.18	20.90	21.37
		1#12	0	0	21.10	21.02	21.06
		1#24	0	0	21.21	20.79	21.18
		12#0	1	1	21.47	21.25	21.16
		12#6	1	1	20.83	21.26	20.98
		12#11	1	1	21.22	21.42	21.14
		25#0	1	1	21.01	20.94	20.96
	16-QAM	1#0	1	1	20.77	21.16	21.28
		1#12	1	1	21.30	20.90	21.46
		1#24	1	1	21.38	21.24	21.26
		12#0	2	2	20.59	20.93	20.89
		12#6	2	2	20.97	21.04	21.02
		12#11	2	2	21.23	21.28	21.24
		25#0	2	2	20.70	21.03	21.12

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	21.16	21.07	20.98
		1#24	0	0	21.17	21.05	21.28
		1#49	0	0	20.79	20.85	20.66
		25#0	1	1	21.35	20.97	20.63
		25#12	1	1	21.15	21.02	20.67
		25#24	1	1	20.94	21.11	21.44
		50#0	1	1	21.15	20.64	21.13
	16-QAM	1#0	1	1	20.86	21.05	21.25
		1#24	1	1	21.27	21.18	21.13
		1#49	1	1	21.03	21.15	20.86
		25#0	2	2	21.18	20.88	21.00
		25#12	2	2	20.82	21.40	21.13
		25#24	2	2	20.73	21.05	21.32
		50#0	2	2	21.04	20.83	20.85
15M	QPSK	1#0	0	0	20.96	20.99	21.01
		1#37	0	0	21.15	21.00	21.09
		1#74	0	0	20.99	21.45	20.67
		36#0	1	1	21.17	21.32	21.28
		36#17	1	1	20.86	21.44	20.83
		36#35	1	1	20.70	21.05	20.96
		75#0	1	1	20.94	20.75	21.09
	16-QAM	1#0	1	1	20.81	21.12	21.05
		1#37	1	1	21.15	20.97	20.93
		1#74	1	1	20.93	20.74	21.39
		36#0	2	2	20.89	21.00	21.45
		36#17	2	2	20.98	21.27	21.15
		36#35	2	2	21.23	21.08	21.36
		75#0	2	2	21.20	20.86	21.11
20M	QPSK	1#0	0	0	21.25	21.08	21.20
		1#49	0	0	21.43	21.48	**21.56**
		1#99	0	0	20.97	21.35	20.87
		50#0	1	1	21.26	21.37	21.46
		50#24	1	1	21.42	20.90	21.25
		50#49	1	1	21.25	20.95	20.91
		100#0	1	1	21.00	20.80	21.06
	16-QAM	1#0	1	1	20.91	21.05	20.77
		1#49	1	1	20.61	20.96	21.26
		1#99	1	1	21.04	21.18	21.15
		50#0	2	2	21.23	20.90	21.01
		50#24	2	2	20.89	21.49	20.98
		50#49	2	2	21.11	20.72	21.09
		100#0	2	2	21.35	21.15	20.97

LTE Band 4(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	20.88	21.28	20.82
		1#3	0	0	21.24	20.79	21.42
		1#5	0	0	20.94	20.86	21.00
		3#0	1	1	21.29	20.94	21.33
		3#1	1	1	21.21	20.84	20.89
		3#3	1	1	21.41	21.04	20.79
		6#0	1	1	21.32	20.89	20.93
	16-QAM	1#0	1	1	20.54	21.35	20.93
		1#3	1	1	21.03	20.99	20.97
		1#5	1	1	21.08	20.88	20.96
		3#0	2	2	21.38	20.99	20.88
		3#1	2	2	21.11	21.33	21.46
		3#3	2	2	21.08	21.31	21.37
		6#0	2	2	21.00	20.81	20.70
3M	QPSK	1#0	0	0	20.66	21.01	21.02
		1#7	0	0	21.14	21.26	21.30
		1#14	0	0	20.88	21.10	21.07
		8#0	1	1	20.67	21.26	21.13
		8#4	1	1	21.17	20.97	20.83
		8#7	1	1	21.33	20.84	20.77
		15#0	1	1	20.98	20.73	21.19
	16-QAM	1#0	1	1	20.98	21.05	21.02
		1#7	1	1	21.12	20.77	21.20
		1#14	1	1	20.90	21.19	20.98
		8#0	2	2	20.92	21.07	21.21
		8#4	2	2	20.86	20.72	21.31
		8#7	2	2	20.95	21.12	20.83
		15#0	2	2	21.11	21.26	20.58
5M	QPSK	1#0	0	0	20.86	21.00	20.83
		1#12	0	0	21.10	21.24	20.82
		1#24	0	0	21.28	20.95	21.19
		12#0	1	1	20.90	21.26	21.16
		12#6	1	1	20.91	21.26	21.44
		12#11	1	1	21.17	21.02	20.79
		25#0	1	1	21.16	21.28	21.19
	16-QAM	1#0	1	1	21.33	**21.50**	21.04
		1#12	1	1	20.95	20.99	21.42
		1#24	1	1	21.11	20.94	21.00
		12#0	2	2	21.27	21.00	21.18
		12#6	2	2	21.48	21.30	21.20
		12#11	2	2	20.90	21.05	21.22
		25#0	2	2	20.97	21.23	21.15

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	21.15	21.28	20.81
		1#24	0	0	21.05	21.07	20.89
		1#49	0	0	20.71	20.88	20.96
		25#0	1	1	21.40	20.85	21.03
		25#12	1	1	21.12	21.11	21.19
		25#24	1	1	20.85	20.66	21.31
		50#0	1	1	21.05	21.02	21.13
	16-QAM	1#0	1	1	21.31	21.02	20.96
		1#24	1	1	21.34	21.07	21.01
		1#49	1	1	21.19	20.80	20.96
		25#0	2	2	20.98	20.78	21.06
		25#12	2	2	20.88	20.81	21.23
		25#24	2	2	21.42	21.06	21.06
		50#0	2	2	21.00	20.95	21.22
15M	QPSK	1#0	0	0	21.02	20.79	20.91
		1#37	0	0	21.07	21.49	21.46
		1#74	0	0	20.94	21.31	20.96
		36#0	1	1	21.04	20.86	21.14
		36#17	1	1	21.05	21.48	21.05
		36#35	1	1	20.66	21.13	21.15
		75#0	1	1	21.25	20.87	21.03
	16-QAM	1#0	1	1	21.10	21.19	21.03
		1#37	1	1	21.35	21.27	21.27
		1#74	1	1	21.42	20.96	20.94
		36#0	2	2	21.10	21.18	20.98
		36#17	2	2	21.16	20.73	20.98
		36#35	2	2	20.95	21.21	21.25
		75#0	2	2	21.25	21.14	21.23
20M	QPSK	1#0	0	0	21.39	21.46	21.31
		1#49	0	0	20.92	21.17	20.78
		1#99	0	0	20.94	21.01	21.16
		50#0	1	1	20.97	21.11	21.18
		50#24	1	1	21.04	21.14	21.13
		50#49	1	1	21.17	21.30	21.22
		100#0	1	1	21.01	21.22	21.20
	16-QAM	1#0	1	1	21.23	20.96	21.47
		1#49	1	1	20.87	21.01	21.03
		1#99	1	1	20.76	21.08	21.20
		50#0	2	2	21.05	21.15	21.08
		50#24	2	2	21.40	20.92	21.02
		50#49	2	2	21.05	21.06	21.45
		100#0	2	2	20.94	21.33	21.04

LTE Band 5(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	**21.57**	20.81	21.04
		1#3	0	0	21.40	20.67	21.16
		1#5	0	0	21.29	20.77	20.99
		3#0	1	1	20.88	20.66	21.04
		3#1	1	1	21.24	21.04	20.89
		3#3	1	1	20.71	21.39	21.53
		6#0	1	1	21.09	21.18	20.85
	16-QAM	1#0	1	1	21.13	21.52	20.90
		1#3	1	1	20.82	20.94	20.92
		1#5	1	1	21.23	20.91	21.10
		3#0	2	2	20.89	21.29	21.22
		3#1	2	2	21.18	21.26	20.98
		3#3	2	2	21.03	21.18	20.78
		6#0	2	2	20.70	21.07	21.16
3M	QPSK	1#0	0	0	21.07	20.65	21.00
		1#7	0	0	21.35	21.14	21.26
		1#14	0	0	21.29	21.21	21.09
		8#0	1	1	20.94	20.70	20.86
		8#4	1	1	20.94	20.86	20.91
		8#7	1	1	20.89	20.74	21.14
		15#0	1	1	20.78	20.70	21.06
	16-QAM	1#0	1	1	21.35	20.96	21.08
		1#7	1	1	21.35	21.12	20.68
		1#14	1	1	21.10	21.10	20.74
		8#0	2	2	21.00	21.11	20.72
		8#4	2	2	20.95	21.20	20.88
		8#7	2	2	20.93	20.82	21.08
		15#0	2	2	20.84	21.34	21.33
5M	QPSK	1#0	0	0	21.21	20.86	21.36
		1#12	0	0	21.18	21.02	21.09
		1#24	0	0	21.12	20.96	21.44
		12#0	1	1	20.68	21.01	20.85
		12#6	1	1	21.12	20.70	20.80
		12#11	1	1	21.47	20.76	21.16
		25#0	1	1	20.89	20.82	21.13
	16-QAM	1#0	1	1	21.52	20.79	21.12
		1#12	1	1	20.85	21.36	21.18
		1#24	1	1	20.98	20.91	21.37
		12#0	2	2	21.21	20.91	20.78
		12#6	2	2	20.96	21.35	21.13
		12#11	2	2	21.01	20.80	20.61
		25#0	2	2	21.06	21.11	21.25

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	21.03	21.12	21.43
		1#24	0	0	20.76	21.15	21.03
		1#49	0	0	21.26	21.07	21.35
		25#0	1	1	21.20	20.95	20.95
		25#12	1	1	21.07	20.66	21.30
		25#24	1	1	20.99	21.11	21.09
		50#0	1	1	21.46	20.87	21.00
	16-QAM	1#0	1	1	20.82	20.80	21.23
		1#24	1	1	20.79	20.81	21.10
		1#49	1	1	21.10	21.46	20.65
		25#0	2	2	21.29	21.18	20.67
		25#12	2	2	21.04	21.17	21.25
		25#24	2	2	21.33	20.85	20.95
		50#0	2	2	21.12	21.07	21.20

LTE Band 7(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	21.15	21.03	20.93
		1#12	0	0	21.19	21.02	21.34
		1#24	0	0	21.17	21.07	20.98
		12#0	1	1	20.96	20.85	21.01
		12#6	1	1	21.03	21.42	20.77
		12#11	1	1	21.26	20.73	20.67
		25#0	1	1	20.69	21.05	20.89
	16-QAM	1#0	1	1	20.85	21.22	20.95
		1#12	1	1	21.15	21.41	21.03
		1#24	1	1	21.17	21.14	20.63
		12#0	2	2	20.88	20.81	21.08
		12#6	2	2	20.86	21.14	21.20
		12#11	2	2	20.83	20.93	20.75
		25#0	2	2	20.79	20.70	21.00
10M	QPSK	1#0	0	0	21.03	21.15	21.07
		1#24	0	0	20.61	20.70	21.02
		1#49	0	0	20.88	20.74	20.88
		25#0	1	1	21.11	21.43	20.94
		25#12	1	1	21.07	21.12	21.13
		25#24	1	1	21.06	20.98	21.44
		50#0	1	1	20.74	21.29	20.85
	16-QAM	1#0	1	1	20.62	21.10	21.27
		1#24	1	1	21.15	21.13	21.01
		1#49	1	1	21.25	20.98	21.08
		25#0	2	2	21.36	21.19	21.21
		25#12	2	2	21.12	21.13	21.35
		25#24	2	2	21.11	21.38	21.10
		50#0	2	2	21.41	21.38	21.15
15M	QPSK	1#0	0	0	21.29	20.71	21.14
		1#37	0	0	20.80	21.40	21.14
		1#74	0	0	21.04	21.27	21.04
		36#0	1	1	21.06	20.98	21.37
		36#18	1	1	21.15	20.90	21.05
		36#37	1	1	21.18	21.30	20.93
		75#0	1	1	21.23	20.79	**21.48**
	16-QAM	1#0	1	1	20.70	20.89	21.18
		1#37	1	1	21.37	21.11	21.23
		1#74	1	1	20.68	21.02	20.93
		36#0	2	2	21.27	21.19	20.90
		36#18	2	2	21.06	21.29	20.71
		36#37	2	2	21.08	20.70	21.24
		75#0	2	2	20.76	20.86	21.24

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1#0	0	0	21.38	21.45	21.31
		1#49	0	0	21.05	20.87	20.97
		1#99	0	0	20.82	21.05	21.09
		50#0	1	1	21.39	21.18	21.07
		50#24	1	1	20.69	20.89	21.29
		50#49	1	1	21.35	21.36	21.20
		100#0	1	1	20.91	21.29	21.38
	16-QAM	1#0	1	1	21.16	21.01	20.84
		1#49	1	1	21.10	20.87	20.63
		1#99	1	1	20.95	21.00	20.70
		50#0	2	2	21.24	21.17	21.31
		50#24	2	2	21.15	21.10	21.36
		50#49	2	2	20.92	20.73	20.83
		100#0	2	2	21.11	21.13	21.12

LTE Band 12(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	20.98	20.85	20.79
		1#3	0	0	21.28	21.07	21.21
		1#5	0	0	21.27	20.94	21.17
		3#0	1	1	20.89	21.04	21.22
		3#1	1	1	20.85	21.39	20.96
		3#3	1	1	20.78	21.28	21.17
		6#0	1	1	21.28	21.24	20.99
	16-QAM	1#0	1	1	20.56	21.13	20.70
		1#3	1	1	20.95	20.56	20.79
		1#5	1	1	21.10	21.12	21.27
		3#0	2	2	21.29	21.07	20.84
		3#1	2	2	21.23	20.85	21.18
		3#3	2	2	20.93	20.72	21.08
		6#0	2	2	21.28	21.04	20.87
3M	QPSK	1#0	0	0	21.17	21.24	20.85
		1#7	0	0	21.18	21.21	20.90
		1#14	0	0	21.02	21.32	21.10
		8#0	1	1	20.95	20.64	21.01
		8#4	1	1	20.91	21.08	**21.59**
		8#7	1	1	20.96	20.91	21.02
		15#0	1	1	20.93	21.36	21.42
	16-QAM	1#0	1	1	20.96	20.94	21.24
		1#7	1	1	20.87	21.12	21.22
		1#14	1	1	20.75	20.88	21.00
		8#0	2	2	21.11	21.06	20.72
		8#4	2	2	20.84	21.07	21.17
		8#7	2	2	20.93	21.33	21.15
		15#0	2	2	21.23	20.89	20.87
5M	QPSK	1#0	0	0	20.87	21.28	21.40
		1#12	0	0	20.77	21.11	20.97
		1#24	0	0	20.95	20.80	20.93
		12#0	1	1	20.89	21.12	20.88
		12#6	1	1	20.92	20.88	21.09
		12#11	1	1	21.17	21.11	20.75
		25#0	1	1	20.77	21.16	21.39
	16-QAM	1#0	1	1	20.98	20.88	21.02
		1#12	1	1	20.88	20.70	21.23
		1#24	1	1	20.84	20.91	20.86
		12#0	2	2	21.22	21.01	21.37
		12#6	2	2	21.21	21.06	21.06
		12#11	2	2	20.96	21.24	20.72
		25#0	2	2	20.92	20.81	21.16

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	20.96	20.99	20.89
		1#24	0	0	21.45	21.57	21.37
		1#49	0	0	21.04	21.33	20.99
		25#0	1	1	21.23	21.31	21.13
		25#12	1	1	21.24	20.88	21.25
		25#24	1	1	20.61	20.99	21.03
		50#0	1	1	20.86	21.18	21.42
	16-QAM	1#0	1	1	21.04	21.12	21.01
		1#24	1	1	21.02	21.26	21.32
		1#49	1	1	20.88	21.24	20.68
		25#0	2	2	20.87	20.94	20.88
		25#12	2	2	21.30	21.04	21.28
		25#24	2	2	20.80	20.86	21.02
		50#0	2	2	20.88	21.07	20.81

LTE Band 17(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	21.22	20.87	21.07
		1#12	0	0	20.94	20.82	21.34
		1#24	0	0	20.82	21.19	20.95
		12#0	1	1	20.89	20.68	20.90
		12#6	1	1	21.20	21.14	20.98
		12#11	1	1	20.82	21.05	21.35
		25#0	1	1	20.64	21.04	20.86
	16-QAM	1#0	1	1	21.16	21.02	21.05
		1#12	1	1	21.15	21.12	21.15
		1#24	1	1	20.99	21.24	21.09
		12#0	2	2	21.11	20.65	21.32
		12#6	2	2	21.20	21.23	21.11
		12#11	2	2	20.86	20.68	21.13
		25#0	2	2	21.19	20.81	21.17
10M	QPSK	1#0	0	0	20.67	20.65	21.10
		1#24	0	0	20.87	21.28	20.91
		1#49	0	0	20.73	20.91	20.72
		25#0	1	1	20.99	20.63	21.12
		25#12	1	1	21.13	20.60	21.06
		25#24	1	1	20.72	20.98	21.18
		50#0	1	1	21.34	21.01	20.85
	16-QAM	1#0	1	1	20.86	20.70	21.15
		1#24	1	1	21.13	**21.39**	20.87
		1#49	1	1	21.22	21.26	20.93
		25#0	2	2	21.10	21.17	20.83
		25#12	2	2	20.82	20.87	21.38
		25#24	2	2	20.84	21.35	21.32
		50#0	2	2	20.77	20.90	20.85

LTE Band 25(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	21.23	21.19	21.12
		1#3	0	0	21.11	21.00	21.09
		1#5	0	0	20.76	20.94	21.03
		3#0	1	1	20.67	20.85	20.92
		3#1	1	1	20.95	21.16	20.92
		3#3	1	1	20.96	20.93	20.74
		6#0	1	1	21.41	20.87	21.16
	16-QAM	1#0	1	1	21.00	21.14	21.28
		1#3	1	1	21.45	21.44	20.68
		1#5	1	1	20.66	21.04	21.29
		3#0	2	2	21.13	21.05	21.35
		3#1	2	2	21.13	20.68	20.97
		3#3	2	2	20.87	21.13	20.86
		6#0	2	2	21.10	20.88	21.17
3M	QPSK	1#0	0	0	21.14	20.82	21.52
		1#7	0	0	21.30	20.93	20.70
		1#14	0	0	21.33	21.19	20.84
		8#0	1	1	20.89	20.64	20.87
		8#4	1	1	20.69	21.13	20.92
		8#7	1	1	21.28	20.88	20.95
		15#0	1	1	21.10	21.15	21.18
	16-QAM	1#0	1	1	21.56	20.99	20.80
		1#7	1	1	21.61	20.89	21.30
		1#14	1	1	20.85	21.22	21.13
		8#0	2	2	20.81	21.24	21.23
		8#4	2	2	21.36	21.33	20.81
		8#7	2	2	21.09	21.16	21.17
		15#0	2	2	20.90	20.67	20.98
5M	QPSK	1#0	0	0	21.14	21.00	21.03
		1#12	0	0	20.69	20.73	20.97
		1#24	0	0	20.77	20.93	21.09
		12#0	1	1	20.61	20.94	**21.63**
		12#6	1	1	20.88	21.30	21.40
		12#11	1	1	21.12	21.13	21.00
		25#0	1	1	21.15	21.01	20.81
	16-QAM	1#0	1	1	21.16	21.09	20.79
		1#12	1	1	21.20	20.77	21.25
		1#24	1	1	20.84	20.83	21.12
		12#0	2	2	20.90	21.15	20.72
		12#6	2	2	21.13	21.13	20.84
		12#11	2	2	21.09	21.43	21.60
		25#0	2	2	21.09	21.11	21.24

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	21.40	20.90	21.08
		1#24	0	0	21.25	20.80	20.93
		1#49	0	0	21.09	20.96	21.07
		25#0	1	1	21.05	20.95	21.04
		25#12	1	1	21.17	20.96	21.24
		25#24	1	1	21.18	21.10	20.89
		50#0	1	1	21.32	21.01	21.15
	16-QAM	1#0	1	1	20.93	20.91	20.80
		1#24	1	1	20.63	21.14	20.95
		1#49	1	1	20.95	20.80	21.06
		25#0	2	2	20.95	20.84	20.98
		25#12	2	2	20.93	21.00	21.42
		25#24	2	2	21.30	21.00	20.75
		50#0	2	2	20.68	21.31	21.20
15M	QPSK	1#0	0	0	21.33	21.17	21.17
		1#37	0	0	21.20	21.02	20.80
		1#74	0	0	21.00	21.18	20.73
		36#0	1	1	21.29	20.90	21.16
		36#17	1	1	21.13	20.68	21.15
		36#35	1	1	21.38	21.46	20.55
		75#0	1	1	20.80	21.33	20.91
	16-QAM	1#0	1	1	20.92	21.19	21.24
		1#37	1	1	21.09	21.35	21.19
		1#74	1	1	21.28	21.42	21.10
		36#0	2	2	21.21	21.16	21.39
		36#17	2	2	21.23	21.09	21.39
		36#35	2	2	21.35	20.93	21.38
		75#0	2	2	21.29	21.29	20.90
20M	QPSK	1#0	0	0	21.37	21.55	21.39
		1#49	0	0	20.75	21.37	21.22
		1#99	0	0	21.19	20.82	20.93
		50#0	1	1	20.72	20.82	21.31
		50#24	1	1	21.12	21.32	21.23
		50#49	1	1	20.72	21.19	20.72
		100#0	1	1	20.80	20.94	20.82
	16-QAM	1#0	1	1	21.13	20.82	20.74
		1#49	1	1	21.36	21.01	21.18
		1#99	1	1	21.48	21.16	20.79
		50#0	2	2	21.05	21.07	20.92
		50#24	2	2	21.07	21.28	21.06
		50#49	2	2	20.90	20.82	21.11
		100#0	2	2	21.21	20.79	20.98

LTE Band 26(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	21.48	21.00	21.26
		1#3	0	0	21.47	21.25	20.76
		1#5	0	0	20.81	20.67	21.40
		3#0	1	1	20.83	20.87	21.34
		3#1	1	1	**21.61**	21.45	20.87
		3#3	1	1	20.81	20.89	20.88
		6#0	1	1	20.87	20.94	21.16
	16-QAM	1#0	1	1	21.00	21.04	21.43
		1#3	1	1	20.85	21.07	21.18
		1#5	1	1	20.66	21.26	20.94
		3#0	2	2	21.19	21.45	21.23
		3#1	2	2	21.46	21.14	21.09
		3#3	2	2	21.15	21.28	21.42
		6#0	2	2	20.76	20.90	20.75
3M	QPSK	1#0	0	0	21.37	21.01	21.14
		1#7	0	0	20.99	20.72	21.06
		1#14	0	0	21.33	21.26	21.12
		8#0	1	1	21.27	20.99	21.13
		8#4	1	1	21.21	21.26	20.95
		8#7	1	1	21.01	20.89	21.29
		15#0	1	1	20.98	20.65	21.09
	16-QAM	1#0	1	1	21.31	21.09	21.03
		1#7	1	1	20.85	21.16	20.97
		1#14	1	1	20.74	20.82	21.25
		8#0	2	2	20.86	21.04	21.18
		8#4	2	2	21.30	20.76	20.76
		8#7	2	2	20.53	21.01	20.83
		15#0	2	2	20.87	21.18	21.27
5M	QPSK	1#0	0	0	20.85	21.08	21.37
		1#12	0	0	21.33	21.08	20.56
		1#24	0	0	20.81	21.52	20.92
		12#0	1	1	21.09	20.56	21.49
		12#6	1	1	21.17	21.14	21.11
		12#11	1	1	21.08	21.46	20.76
		25#0	1	1	20.91	21.08	21.10
	16-QAM	1#0	1	1	21.03	21.07	20.89
		1#12	1	1	20.74	21.10	21.04
		1#24	1	1	20.86	21.52	20.82
		12#0	2	2	21.09	21.07	21.39
		12#6	2	2	20.89	21.27	21.00
		12#11	2	2	21.29	21.29	21.15
		25#0	2	2	20.84	21.05	21.53

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	20.84	20.77	21.00
		1#24	0	0	20.97	21.05	20.81
		1#49	0	0	20.91	21.19	20.84
		25#0	1	1	21.16	21.52	20.64
		25#12	1	1	21.12	20.81	20.83
		25#24	1	1	21.40	20.77	21.32
		50#0	1	1	20.76	21.04	21.16
	16-QAM	1#0	1	1	21.22	21.42	20.95
		1#24	1	1	21.14	20.94	21.04
		1#49	1	1	20.76	20.75	21.18
		25#0	2	2	21.04	20.92	20.96
		25#12	2	2	21.13	20.75	21.06
		25#24	2	2	21.34	21.07	20.85
		50#0	2	2	20.98	21.15	21.27
15M	QPSK	1#0	0	0	21.46	21.55	21.39
		1#37	0	0	21.50	20.72	21.01
		1#74	0	0	20.78	21.30	21.23
		36#0	1	1	21.25	21.36	21.21
		36#17	1	1	21.14	20.90	21.20
		36#35	1	1	21.36	20.81	20.79
		75#0	1	1	20.80	21.07	21.25
	16-QAM	1#0	1	1	21.04	20.84	21.08
		1#37	1	1	20.86	20.89	20.99
		1#74	1	1	20.60	20.96	21.23
		36#0	2	2	20.97	21.32	20.65
		36#17	2	2	20.95	21.43	21.20
		36#35	2	2	20.82	20.93	20.96
		75#0	2	2	21.35	21.37	21.23

LTE Band 38(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	22.05	22.21	22.04
		1#12	0	0	21.98	21.82	22.32
		1#24	0	0	22.17	22.14	21.57
		12#0	1	1	22.20	22.01	21.93
		12#6	1	1	22.35	21.86	22.17
		12#11	1	1	22.21	21.88	21.75
		25#0	1	1	21.80	21.91	21.88
	16-QAM	1#0	1	1	22.08	21.91	21.77
		1#12	1	1	21.87	21.76	22.02
		1#24	1	1	21.91	22.06	21.94
		12#0	2	2	**22.56**	22.17	21.83
		12#6	2	2	21.98	21.93	22.01
		12#11	2	2	21.81	22.00	22.03
		25#0	2	2	22.05	21.67	21.77
10M	QPSK	1#0	0	0	21.99	22.11	22.30
		1#24	0	0	22.31	21.78	22.05
		1#49	0	0	22.05	22.17	21.90
		25#0	1	1	21.89	22.08	22.25
		25#12	1	1	22.02	21.82	22.11
		25#24	1	1	22.25	22.15	22.19
		50#0	1	1	22.51	22.08	22.05
	16-QAM	1#0	1	1	21.99	21.85	22.28
		1#24	1	1	21.99	21.80	22.39
		1#49	1	1	22.29	22.07	22.38
		25#0	2	2	22.03	21.53	22.10
		25#12	2	2	21.78	22.20	22.16
		25#24	2	2	21.78	22.13	22.08
		50#0	2	2	22.12	21.74	22.11
15M	QPSK	1#0	0	0	22.12	22.23	22.21
		1#37	0	0	21.82	22.03	22.12
		1#74	0	0	22.29	22.22	22.31
		36#0	1	1	22.13	22.04	21.86
		36#17	1	1	21.93	22.00	22.54
		36#35	1	1	22.07	21.93	22.02
		75#0	1	1	22.39	22.07	21.89
	16-QAM	1#0	1	1	22.22	21.89	22.26
		1#37	1	1	21.95	21.78	21.95
		1#74	1	1	22.21	22.41	21.93
		36#0	2	2	22.27	22.24	21.86
		36#17	2	2	21.83	21.86	22.08
		36#35	2	2	22.47	22.01	21.97
		75#0	2	2	22.41	22.10	22.22

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1#0	0	0	22.26	21.90	22.24
		1#49	0	0	22.00	22.25	22.15
		1#99	0	0	22.45	21.96	22.36
		50#0	1	1	22.25	22.13	22.25
		50#24	1	1	21.94	21.88	22.13
		50#49	1	1	22.17	21.89	21.98
		100#0	1	1	22.27	21.97	21.87
	16-QAM	1#0	1	1	22.13	21.85	21.90
		1#49	1	1	21.90	22.35	21.89
		1#99	1	1	22.22	21.74	22.29
		50#0	2	2	21.91	21.97	22.35
		50#24	2	2	22.33	22.17	22.37
		50#49	2	2	22.14	21.80	22.23
		100#0	2	2	21.85	22.27	21.68

LTE Band 41(Sensor NOT Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	22.10	22.10	21.76
		1#12	0	0	22.27	21.84	22.15
		1#24	0	0	21.86	22.23	22.08
		12#0	1	1	22.18	21.98	**22.53**
		12#6	1	1	21.93	22.08	21.64
		12#11	1	1	22.13	21.94	22.18
		25#0	1	1	22.16	21.88	22.16
	16-QAM	1#0	1	1	21.75	22.08	21.65
		1#12	1	1	22.07	22.36	22.13
		1#24	1	1	21.99	21.96	21.99
		12#0	2	2	21.85	22.27	22.28
		12#6	2	2	22.38	22.10	22.26
		12#11	2	2	21.93	22.37	22.02
		25#0	2	2	22.03	22.09	22.22
10M	QPSK	1#0	0	0	21.96	22.30	22.10
		1#24	0	0	22.22	22.07	22.01
		1#49	0	0	21.68	22.09	21.99
		25#0	1	1	22.17	21.77	21.94
		25#12	1	1	21.95	22.19	21.70
		25#24	1	1	21.97	22.39	22.09
		50#0	1	1	22.14	22.42	22.15
	16-QAM	1#0	1	1	21.99	22.32	22.05
		1#24	1	1	21.86	22.11	21.89
		1#49	1	1	22.28	21.79	21.76
		25#0	2	2	21.84	22.07	21.69
		25#12	2	2	22.04	21.77	22.00
		25#24	2	2	21.78	22.36	22.20
		50#0	2	2	21.84	21.86	21.95
15M	QPSK	1#0	0	0	22.19	21.99	21.76
		1#37	0	0	21.59	22.18	22.09
		1#74	0	0	21.95	22.00	21.60
		36#0	1	1	22.10	22.06	22.31
		36#18	1	1	21.83	21.94	21.92
		36#37	1	1	21.70	22.16	22.14
		75#0	1	1	22.03	22.03	21.62
	16-QAM	1#0	1	1	21.67	22.14	22.21
		1#37	1	1	22.35	21.91	22.17
		1#74	1	1	21.92	22.00	22.19
		36#0	2	2	21.96	22.12	21.57
		36#18	2	2	22.15	22.01	21.75
		36#37	2	2	21.75	21.94	22.01
		75#0	2	2	21.89	22.31	21.62

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1#0	0	0	22.31	22.41	22.29
		1#49	0	0	21.83	21.98	21.89
		1#99	0	0	21.86	22.48	21.94
		50#0	1	1	22.18	22.17	22.16
		50#24	1	1	21.95	22.14	22.08
		50#49	1	1	22.41	22.28	22.29
		100#0	1	1	22.15	21.94	22.02
	16-QAM	1#0	1	1	22.30	22.30	21.81
		1#49	1	1	21.98	22.12	21.79
		1#99	1	1	22.08	22.26	21.65
		50#0	2	2	21.57	21.95	21.56
		50#24	2	2	22.15	22.18	22.13
		50#49	2	2	22.13	22.03	21.93
		100#0	2	2	21.75	22.13	21.67

LTE Band 2(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	16.07	16.52	16.38
		1#3	0	0	16.44	16.47	16.59
		1#5	0	0	16.51	15.85	16.40
		3#0	1	1	16.54	16.01	16.40
		3#1	1	1	16.20	15.95	16.47
		3#3	1	1	16.09	16.19	16.38
		6#0	1	1	16.09	16.75	16.10
	16-QAM	1#0	1	1	16.18	16.33	16.21
		1#3	1	1	16.48	16.21	16.42
		1#5	1	1	16.57	16.29	16.10
		3#0	2	2	16.53	16.29	16.30
		3#1	2	2	16.55	16.28	16.58
		3#3	2	2	16.22	15.94	16.01
		6#0	2	2	16.65	16.47	16.08
3M	QPSK	1#0	0	0	**16.82**	16.29	15.74
		1#7	0	0	16.64	15.84	16.76
		1#14	0	0	16.26	16.41	16.15
		8#0	1	1	16.48	16.64	16.17
		8#4	1	1	15.96	16.25	16.54
		8#7	1	1	15.87	16.28	16.11
		15#0	1	1	16.00	16.51	16.19
	16-QAM	1#0	1	1	15.97	16.28	16.05
		1#7	1	1	16.54	15.78	16.05
		1#14	1	1	16.70	16.36	16.01
		8#0	2	2	16.14	15.97	15.97
		8#4	2	2	16.01	16.39	16.32
		8#7	2	2	16.32	16.21	16.20
		15#0	2	2	16.55	16.49	16.30
5M	QPSK	1#0	0	0	16.37	16.10	16.66
		1#12	0	0	16.32	16.22	16.25
		1#24	0	0	16.52	16.14	16.51
		12#0	1	1	16.78	16.41	16.47
		12#6	1	1	16.03	16.54	16.28
		12#11	1	1	16.52	16.61	16.44
		25#0	1	1	16.23	16.19	16.24
	16-QAM	1#0	1	1	15.99	16.48	16.52
		1#12	1	1	16.61	16.20	16.80
		1#24	1	1	16.72	16.45	16.48
		12#0	2	2	15.81	16.26	16.19
		12#6	2	2	16.22	16.32	16.21
		12#11	2	2	16.42	16.61	16.47
		25#0	2	2	15.95	16.28	16.37

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	16.35	16.22	16.27
		1#24	0	0	16.32	16.22	16.43
		1#49	0	0	15.99	16.15	15.91
		25#0	1	1	16.57	16.22	15.87
		25#12	1	1	16.45	16.23	15.99
		25#24	1	1	16.14	16.39	16.65
		50#0	1	1	16.34	15.96	16.36
	16-QAM	1#0	1	1	16.15	16.33	16.57
		1#24	1	1	16.50	16.39	16.29
		1#49	1	1	16.25	16.42	16.19
		25#0	2	2	16.39	16.19	16.23
		25#12	2	2	16.02	16.70	16.35
		25#24	2	2	15.97	16.29	16.67
		50#0	2	2	16.28	16.04	16.03
15M	QPSK	1#0	0	0	16.18	16.17	16.33
		1#37	0	0	16.35	16.31	16.31
		1#74	0	0	16.21	16.61	15.96
		36#0	1	1	16.45	16.59	16.58
		36#17	1	1	16.11	16.74	16.17
		36#35	1	1	15.95	16.24	16.16
		75#0	1	1	16.22	15.98	16.33
	16-QAM	1#0	1	1	16.11	16.39	16.34
		1#37	1	1	16.30	16.12	16.13
		1#74	1	1	16.17	16.02	16.62
		36#0	2	2	16.19	16.20	16.69
		36#17	2	2	16.26	16.55	16.40
		36#35	2	2	16.50	16.33	16.65
		75#0	2	2	16.45	16.05	16.28
20M	QPSK	1#0	0	0	16.57	16.72	16.67
		1#49	0	0	16.48	16.06	16.73
		1#99	0	0	16.32	16.61	16.16
		50#0	1	1	16.48	16.51	16.21
		50#24	1	1	16.62	16.18	16.49
		50#49	1	1	16.55	16.24	16.19
		100#0	1	1	16.20	16.08	16.39
	16-QAM	1#0	1	1	16.18	16.26	16.10
		1#49	1	1	15.81	16.18	16.60
		1#99	1	1	16.34	16.52	16.37
		50#0	2	2	16.56	16.10	16.29
		50#24	2	2	16.20	16.77	16.21
		50#49	2	2	16.42	15.92	16.42
		100#0	2	2	16.55	16.47	16.20

LTE Band 4(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	16.05	16.47	16.02
		1#3	0	0	16.43	16.14	16.59
		1#5	0	0	16.22	16.03	16.33
		3#0	1	1	16.55	16.21	16.61
		3#1	1	1	16.50	16.05	16.09
		3#3	1	1	16.60	16.34	16.02
		6#0	1	1	16.49	16.12	16.23
	16-QAM	1#0	1	1	15.82	16.61	16.10
		1#3	1	1	16.26	16.23	16.29
		1#5	1	1	16.42	16.21	16.28
		3#0	2	2	16.70	16.14	16.18
		3#1	2	2	16.45	16.48	16.64
		3#3	2	2	16.33	16.62	16.52
		6#0	2	2	16.24	16.11	15.93
3M	QPSK	1#0	0	0	15.83	16.32	16.32
		1#7	0	0	16.32	16.57	16.59
		1#14	0	0	16.15	16.28	16.24
		8#0	1	1	15.98	16.53	16.35
		8#4	1	1	16.44	16.28	16.03
		8#7	1	1	16.49	16.00	16.04
		15#0	1	1	16.27	16.00	16.39
	16-QAM	1#0	1	1	16.14	16.30	16.22
		1#7	1	1	16.39	16.01	16.42
		1#14	1	1	16.06	16.54	16.31
		8#0	2	2	16.08	16.31	16.54
		8#4	2	2	16.11	16.03	16.60
		8#7	2	2	16.11	16.32	16.16
		15#0	2	2	16.38	16.55	15.74
5M	QPSK	1#0	0	0	16.09	16.19	16.04
		1#12	0	0	16.39	16.50	16.02
		1#24	0	0	16.46	16.20	16.38
		12#0	1	1	16.18	16.42	16.36
		12#6	1	1	16.10	16.43	16.64
		12#11	1	1	16.33	16.30	16.12
		25#0	1	1	16.37	16.56	16.40
	16-QAM	1#0	1	1	16.65	16.77	16.33
		1#12	1	1	16.24	16.15	16.69
		1#24	1	1	16.29	16.24	16.31
		12#0	2	2	16.53	16.28	16.50
		12#6	2	2	16.80	16.62	16.40
		12#11	2	2	16.13	16.34	16.49
		25#0	2	2	16.14	16.46	16.44

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	16.33	16.52	16.12
		1#24	0	0	16.31	16.25	16.20
		1#49	0	0	16.01	16.08	16.27
		25#0	1	1	16.73	16.10	16.38
		25#12	1	1	16.44	16.27	16.44
		25#24	1	1	16.17	15.91	16.57
		50#0	1	1	16.23	16.30	16.33
	16-QAM	1#0	1	1	16.66	16.25	16.17
		1#24	1	1	16.50	16.35	16.24
		1#49	1	1	16.41	15.99	16.13
		25#0	2	2	16.14	16.12	16.28
		25#12	2	2	16.06	16.15	16.43
		25#24	2	2	16.66	16.22	16.29
		50#0	2	2	16.25	16.15	16.43
15M	QPSK	1#0	0	0	16.34	16.01	16.09
		1#37	0	0	16.23	16.70	16.68
		1#74	0	0	16.10	16.53	16.23
		36#0	1	1	16.27	16.02	16.37
		36#17	1	1	16.25	16.65	16.29
		36#35	1	1	15.83	16.45	16.34
		75#0	1	1	16.56	16.18	16.18
	16-QAM	1#0	1	1	16.35	16.53	16.37
		1#37	1	1	16.64	16.46	16.57
		1#74	1	1	16.76	16.24	16.13
		36#0	2	2	16.43	16.35	16.25
		36#17	2	2	16.45	16.02	16.28
		36#35	2	2	16.23	16.52	16.52
		75#0	2	2	16.42	16.41	16.39
20M	QPSK	1#0	0	0	16.75	**16.86**	16.64
		1#49	0	0	16.21	16.40	16.11
		1#99	0	0	16.11	16.32	16.47
		50#0	1	1	16.28	16.44	16.52
		50#24	1	1	16.26	16.43	16.44
		50#49	1	1	16.34	16.56	16.47
		100#0	1	1	16.29	16.38	16.37
	16-QAM	1#0	1	1	16.53	16.30	16.81
		1#49	1	1	16.07	16.36	16.32
		1#99	1	1	15.93	16.33	16.48
		50#0	2	2	16.26	16.34	16.30
		50#24	2	2	16.68	16.23	16.20
		50#49	2	2	16.36	16.26	16.77
		100#0	2	2	16.22	16.49	16.26

LTE Band 5(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	**16.85**	16.02	16.35
		1#3	0	0	16.55	15.83	16.38
		1#5	0	0	16.48	15.92	16.19
		3#0	1	1	16.23	15.82	16.20
		3#1	1	1	16.58	16.23	16.16
		3#3	1	1	16.01	16.61	16.84
		6#0	1	1	16.39	16.49	16.15
	16-QAM	1#0	1	1	16.32	16.78	16.10
		1#3	1	1	15.97	16.19	16.21
		1#5	1	1	16.50	16.14	16.31
		3#0	2	2	16.21	16.63	16.48
		3#1	2	2	16.46	16.59	16.21
		3#3	2	2	16.25	16.39	15.99
		6#0	2	2	15.88	16.32	16.41
3M	QPSK	1#0	0	0	16.37	15.82	16.32
		1#7	0	0	16.59	16.35	16.54
		1#14	0	0	16.49	16.56	16.36
		8#0	1	1	16.25	15.97	16.18
		8#4	1	1	16.17	16.19	16.24
		8#7	1	1	16.09	15.96	16.46
		15#0	1	1	16.08	15.91	16.23
	16-QAM	1#0	1	1	16.67	16.12	16.38
		1#7	1	1	16.64	16.46	15.85
		1#14	1	1	16.28	16.38	16.07
		8#0	2	2	16.31	16.39	16.01
		8#4	2	2	16.27	16.44	16.11
		8#7	2	2	16.24	15.97	16.28
		15#0	2	2	16.04	16.68	16.65
5M	QPSK	1#0	0	0	16.48	16.13	16.62
		1#12	0	0	16.43	16.23	16.40
		1#24	0	0	16.36	16.27	16.77
		12#0	1	1	16.02	16.34	16.16
		12#6	1	1	16.37	15.95	16.03
		12#11	1	1	16.66	15.95	16.50
		25#0	1	1	16.20	16.12	16.33
	16-QAM	1#0	1	1	16.75	16.14	16.45
		1#12	1	1	16.04	16.63	16.49
		1#24	1	1	16.22	16.08	16.55
		12#0	2	2	16.42	16.25	16.05
		12#6	2	2	16.26	16.69	16.41
		12#11	2	2	16.31	16.08	15.85
		25#0	2	2	16.35	16.31	16.50

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	16.33	16.31	16.77
		1#24	0	0	15.92	16.38	16.37
		1#49	0	0	16.59	16.27	16.69
		25#0	1	1	16.36	16.12	16.19
		25#12	1	1	16.36	15.83	16.55
		25#24	1	1	16.31	16.29	16.38
		50#0	1	1	16.67	16.18	16.26
	16-QAM	1#0	1	1	16.03	16.13	16.47
		1#24	1	1	16.14	16.06	16.45
		1#49	1	1	16.27	16.66	16.00
		25#0	2	2	16.48	16.33	15.99
		25#12	2	2	16.28	16.50	16.59
		25#24	2	2	16.65	16.15	16.24
		50#0	2	2	16.30	16.32	16.52

LTE Band 7(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	16.47	16.33	16.09
		1#12	0	0	16.42	16.37	16.67
		1#24	0	0	16.34	16.31	16.22
		12#0	1	1	16.30	16.10	16.30
		12#6	1	1	16.38	16.63	16.03
		12#11	1	1	16.42	16.06	15.99
		25#0	1	1	15.99	16.24	16.08
	16-QAM	1#0	1	1	16.10	16.52	16.26
		1#12	1	1	16.43	16.64	16.21
		1#24	1	1	16.48	16.48	15.87
		12#0	2	2	16.15	15.98	16.35
		12#6	2	2	16.18	16.38	16.39
		12#11	2	2	16.13	16.18	16.03
		25#0	2	2	16.08	15.98	16.20
10M	QPSK	1#0	0	0	16.27	16.37	16.25
		1#24	0	0	15.93	15.85	16.31
		1#49	0	0	16.13	15.91	16.03
		25#0	1	1	16.36	16.68	16.14
		25#12	1	1	16.27	16.43	16.47
		25#24	1	1	16.33	16.17	16.59
		50#0	1	1	16.01	16.56	16.14
	16-QAM	1#0	1	1	15.87	16.33	16.62
		1#24	1	1	16.38	16.48	16.29
		1#49	1	1	16.57	16.28	16.43
		25#0	2	2	16.58	16.37	16.39
		25#12	2	2	16.34	16.42	16.65
		25#24	2	2	16.33	16.69	16.35
		50#0	2	2	16.56	16.73	16.37
15M	QPSK	1#0	0	0	16.55	15.91	16.32
		1#37	0	0	16.12	**16.75**	16.44
		1#74	0	0	16.27	16.43	16.33
		36#0	1	1	16.32	16.18	16.66
		36#18	1	1	16.49	16.15	16.35
		36#37	1	1	16.45	16.62	16.11
		75#0	1	1	16.53	15.98	16.71
	16-QAM	1#0	1	1	15.89	16.17	16.52
		1#37	1	1	16.54	16.42	16.45
		1#74	1	1	16.01	16.31	16.21
		36#0	2	2	16.58	16.51	16.12
		36#18	2	2	16.21	16.47	15.98
		36#37	2	2	16.37	15.95	16.42
		75#0	2	2	15.95	16.17	16.57

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1#0	0	0	16.50	16.69	16.56
		1#49	0	0	16.26	16.03	16.27
		1#99	0	0	16.16	16.29	16.34
		50#0	1	1	16.58	16.50	16.23
		50#24	1	1	15.95	16.15	16.52
		50#49	1	1	16.48	16.51	16.36
		100#0	1	1	16.25	16.45	16.62
	16-QAM	1#0	1	1	16.39	16.24	16.13
		1#49	1	1	16.34	16.17	15.83
		1#99	1	1	16.19	16.33	16.00
		50#0	2	2	16.46	16.50	16.59
		50#24	2	2	16.31	16.40	16.65
		50#49	2	2	16.15	16.06	16.00
		100#0	2	2	16.28	16.35	16.42

LTE Band 12(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	16.31	16.17	16.09
		1#3	0	0	16.55	16.34	16.36
		1#5	0	0	16.49	16.14	16.42
		3#0	1	1	16.12	16.38	16.40
		3#1	1	1	16.05	16.71	16.25
		3#3	1	1	16.03	16.45	16.37
		6#0	1	1	16.57	16.59	16.22
	16-QAM	1#0	1	1	15.74	16.30	15.89
		1#3	1	1	16.24	15.86	16.03
		1#5	1	1	16.34	16.34	16.48
		3#0	2	2	16.54	16.30	16.16
		3#1	2	2	16.40	16.14	16.42
		3#3	2	2	16.19	16.05	16.28
		6#0	2	2	16.62	16.24	16.19
3M	QPSK	1#0	0	0	16.34	16.58	16.05
		1#7	0	0	16.45	16.50	16.07
		1#14	0	0	16.29	16.66	16.39
		8#0	1	1	16.28	15.91	16.17
		8#4	1	1	16.25	16.36	**16.80**
		8#7	1	1	16.12	16.21	16.27
		15#0	1	1	16.26	16.54	16.59
	16-QAM	1#0	1	1	16.27	16.11	16.45
		1#7	1	1	16.06	16.43	16.41
		1#14	1	1	16.01	16.09	16.27
		8#0	2	2	16.34	16.26	15.96
		8#4	2	2	16.02	16.27	16.51
		8#7	2	2	16.25	16.59	16.42
		15#0	2	2	16.54	16.07	16.15
5M	QPSK	1#0	0	0	16.05	16.45	16.58
		1#12	0	0	15.95	16.29	16.31
		1#24	0	0	16.22	16.08	16.18
		12#0	1	1	16.20	16.31	16.14
		12#6	1	1	16.27	16.20	16.31
		12#11	1	1	16.35	16.43	16.03
		25#0	1	1	15.94	16.49	16.60
	16-QAM	1#0	1	1	16.23	16.19	16.18
		1#12	1	1	16.17	15.88	16.42
		1#24	1	1	16.15	16.23	16.19
		12#0	2	2	16.38	16.20	16.71
		12#6	2	2	16.42	16.26	16.30
		12#11	2	2	16.12	16.54	15.96
		25#0	2	2	16.19	16.00	16.35

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	16.23	16.33	16.05
		1#24	0	0	16.56	16.70	16.45
		1#49	0	0	16.24	16.50	16.27
		25#0	1	1	16.34	16.05	16.61
		25#12	1	1	16.54	16.20	16.51
		25#24	1	1	16.30	16.51	16.35
		50#0	1	1	16.18	16.47	16.76
	16-QAM	1#0	1	1	16.27	16.36	16.28
		1#24	1	1	16.33	16.47	16.57
		1#49	1	1	16.04	16.53	15.93
		25#0	2	2	16.19	16.12	16.20
		25#12	2	2	16.46	16.36	16.55
		25#24	2	2	15.98	16.17	16.18
		50#0	2	2	16.22	16.37	16.05

LTE Band 17(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	16.47	16.03	16.36
		1#12	0	0	16.21	16.10	16.53
		1#24	0	0	16.01	16.43	16.13
		12#0	1	1	16.06	15.84	16.23
		12#6	1	1	16.44	16.40	16.26
		12#11	1	1	16.13	16.25	16.53
		25#0	1	1	15.80	16.25	16.06
	16-QAM	1#0	1	1	16.34	16.29	16.24
		1#12	1	1	16.48	16.37	16.44
		1#24	1	1	16.18	16.46	16.36
		12#0	2	2	16.36	15.81	16.52
		12#6	2	2	16.48	16.54	16.37
		12#11	2	2	16.20	16.01	16.39
		25#0	2	2	16.42	16.12	16.50
10M	QPSK	1#0	0	0	15.90	15.93	16.33
		1#24	0	0	16.07	16.44	16.13
		1#49	0	0	16.05	16.17	15.89
		25#0	1	1	16.23	15.79	16.33
		25#12	1	1	16.47	15.93	16.38
		25#24	1	1	16.01	16.30	16.43
		50#0	1	1	16.51	16.29	16.05
	16-QAM	1#0	1	1	16.10	15.92	16.47
		1#24	1	1	16.33	**16.70**	16.05
		1#49	1	1	16.38	16.60	16.11
		25#0	2	2	16.31	16.32	16.02
		25#12	2	2	16.01	16.17	16.60
		25#24	2	2	16.01	16.58	16.59
		50#0	2	2	15.98	16.19	16.03

LTE Band 25(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	16.42	16.35	16.30
		1#3	0	0	16.33	16.19	16.29
		1#5	0	0	16.08	16.19	16.37
		3#0	1	1	15.96	16.19	16.08
		3#1	1	1	16.23	16.51	16.17
		3#3	1	1	16.29	16.18	16.04
		6#0	1	1	16.66	16.09	16.48
	16-QAM	1#0	1	1	16.18	16.43	16.57
		1#3	1	1	16.73	16.59	15.92
		1#5	1	1	15.93	16.37	16.56
		3#0	2	2	16.46	16.32	16.52
		3#1	2	2	16.39	15.97	16.26
		3#3	2	2	16.08	16.29	16.20
		6#0	2	2	16.30	16.15	16.44
3M	QPSK	1#0	0	0	16.44	16.12	16.74
		1#7	0	0	16.61	16.19	16.04
		1#14	0	0	16.62	16.44	16.07
		8#0	1	1	16.14	15.94	16.16
		8#4	1	1	15.87	16.36	16.18
		8#7	1	1	16.54	16.15	16.22
		15#0	1	1	16.43	16.39	16.39
	16-QAM	1#0	1	1	16.71	16.25	15.95
		1#7	1	1	16.77	16.20	16.52
		1#14	1	1	16.14	16.46	16.38
		8#0	2	2	16.00	16.52	16.42
		8#4	2	2	16.60	16.52	16.14
		8#7	2	2	16.27	16.41	16.49
		15#0	2	2	16.19	15.99	16.16
5M	QPSK	1#0	0	0	16.44	16.29	16.34
		1#12	0	0	15.88	15.90	16.19
		1#24	0	0	15.98	16.19	16.38
		12#0	1	1	15.90	16.20	**16.97**
		12#6	1	1	16.09	16.51	16.66
		12#11	1	1	16.46	16.42	16.27
		25#0	1	1	16.41	16.23	16.04
	16-QAM	1#0	1	1	16.36	16.30	15.94
		1#12	1	1	16.50	15.96	16.59
		1#24	1	1	15.99	15.98	16.43
		12#0	2	2	16.25	16.40	15.87
		12#6	2	2	16.32	16.30	16.06
		12#11	2	2	16.42	16.65	16.77
		25#0	2	2	16.41	16.41	16.49

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	16.70	16.11	16.38
		1#24	0	0	16.56	16.09	16.08
		1#49	0	0	16.41	16.29	16.41
		25#0	1	1	16.32	16.12	16.37
		25#12	1	1	16.43	16.12	16.58
		25#24	1	1	16.46	16.43	16.16
		50#0	1	1	16.49	16.27	16.38
	16-QAM	1#0	1	1	16.08	16.08	16.07
		1#24	1	1	15.87	16.41	16.25
		1#49	1	1	16.22	15.99	16.29
		25#0	2	2	16.26	16.15	16.17
		25#12	2	2	16.14	16.30	16.62
		25#24	2	2	16.58	16.29	15.94
		50#0	2	2	15.93	16.64	16.43
15M	QPSK	1#0	0	0	16.62	16.36	16.48
		1#37	0	0	16.54	16.31	16.10
		1#74	0	0	16.28	16.45	15.95
		36#0	1	1	16.56	16.10	16.33
		36#17	1	1	16.47	15.91	16.47
		36#35	1	1	16.65	16.64	15.77
		75#0	1	1	16.15	16.55	16.19
	16-QAM	1#0	1	1	16.22	16.41	16.53
		1#37	1	1	16.26	16.56	16.47
		1#74	1	1	16.51	16.61	16.34
		36#0	2	2	16.52	16.41	16.58
		36#17	2	2	16.56	16.42	16.66
		36#35	2	2	16.51	16.22	16.65
		75#0	2	2	16.48	16.55	16.17
20M	QPSK	1#0	0	0	16.76	16.89	16.73
		1#49	0	0	16.02	16.55	16.48
		1#99	0	0	16.47	16.06	16.14
		50#0	1	1	16.06	16.16	16.63
		50#24	1	1	16.38	16.43	16.29
		50#49	1	1	15.96	16.37	15.99
		100#0	1	1	16.05	16.14	16.02
	16-QAM	1#0	1	1	16.34	16.09	16.00
		1#49	1	1	16.59	16.27	16.37
		1#99	1	1	16.71	16.48	16.14
		50#0	2	2	16.22	16.41	16.16
		50#24	2	2	16.23	16.54	16.34
		50#49	2	2	16.13	16.06	16.34
		100#0	2	2	16.42	16.01	16.27

LTE Band 26(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	16.74	16.16	16.59
		1#3	0	0	16.71	16.52	15.93
		1#5	0	0	15.97	15.83	16.60
		3#0	1	1	16.04	16.15	16.54
		3#1	1	1	**16.95**	16.67	16.07
		3#3	1	1	15.96	16.05	16.21
		6#0	1	1	16.17	16.21	16.35
	16-QAM	1#0	1	1	16.33	16.31	16.69
		1#3	1	1	16.14	16.34	16.42
		1#5	1	1	15.99	16.55	16.27
		3#0	2	2	16.38	16.67	16.54
		3#1	2	2	16.64	16.44	16.26
		3#3	2	2	16.48	16.48	16.73
		6#0	2	2	16.00	16.20	16.02
3M	QPSK	1#0	0	0	16.61	16.17	16.42
		1#7	0	0	16.22	15.93	16.36
		1#14	0	0	16.53	16.54	16.33
		8#0	1	1	16.57	16.18	16.29
		8#4	1	1	16.44	16.50	16.16
		8#7	1	1	16.23	16.24	16.59
		15#0	1	1	16.19	15.86	16.31
	16-QAM	1#0	1	1	16.58	16.40	16.31
		1#7	1	1	16.20	16.47	16.21
		1#14	1	1	15.94	16.10	16.57
		8#0	2	2	16.18	16.34	16.47
		8#4	2	2	16.60	16.09	16.09
		8#7	2	2	15.78	16.23	16.04
		15#0	2	2	16.03	16.50	16.60
5M	QPSK	1#0	0	0	16.00	16.27	16.57
		1#12	0	0	16.58	16.40	15.88
		1#24	0	0	16.11	16.85	16.13
		12#0	1	1	16.28	15.73	16.77
		12#6	1	1	16.52	16.39	16.28
		12#11	1	1	16.42	16.68	16.06
		25#0	1	1	16.09	16.29	16.33
	16-QAM	1#0	1	1	16.37	16.22	16.17
		1#12	1	1	15.98	16.33	16.22
		1#24	1	1	16.13	16.82	16.03
		12#0	2	2	16.27	16.35	16.63
		12#6	2	2	16.14	16.46	16.30
		12#11	2	2	16.59	16.48	16.41
		25#0	2	2	16.09	16.25	16.87

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	16.01	15.93	16.25
		1#24	0	0	16.15	16.22	16.15
		1#49	0	0	16.13	16.48	15.99
		25#0	1	1	16.32	16.79	15.84
		25#12	1	1	16.32	16.13	16.01
		25#24	1	1	16.69	16.05	16.53
		50#0	1	1	15.97	16.30	16.43
	16-QAM	1#0	1	1	16.44	16.62	16.16
		1#24	1	1	16.30	16.17	16.28
		1#49	1	1	16.02	15.98	16.41
		25#0	2	2	16.22	16.22	16.19
		25#12	2	2	16.47	15.94	16.22
		25#24	2	2	16.57	16.34	16.09
		50#0	2	2	16.20	16.35	16.54
15M	QPSK	1#0	0	0	16.77	16.80	16.60
		1#37	0	0	16.69	16.04	16.32
		1#74	0	0	15.99	16.51	16.46
		36#0	1	1	16.16	16.01	16.33
		36#17	1	1	16.67	16.72	16.53
		36#35	1	1	16.69	16.06	16.11
		75#0	1	1	15.98	16.26	16.42
	16-QAM	1#0	1	1	16.21	16.09	16.40
		1#37	1	1	16.09	16.15	16.32
		1#74	1	1	15.77	16.27	16.38
		36#0	2	2	16.16	16.65	15.87
		36#17	2	2	16.22	16.72	16.45
		36#35	2	2	15.99	16.21	16.16
		75#0	2	2	16.50	16.54	16.56

LTE Band 38(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	17.33	17.56	17.36
		1#12	0	0	17.16	17.13	17.54
		1#24	0	0	17.43	17.30	16.90
		12#0	1	1	17.51	17.33	17.17
		12#6	1	1	17.58	17.12	17.50
		12#11	1	1	17.39	17.16	17.03
		25#0	1	1	16.98	17.07	17.23
	16-QAM	1#0	1	1	17.34	17.20	17.09
		1#12	1	1	17.21	17.04	17.22
		1#24	1	1	17.23	17.31	17.25
		12#0	2	2	**17.85**	17.50	17.09
		12#6	2	2	17.14	17.23	17.16
		12#11	2	2	17.07	17.27	17.21
		25#0	2	2	17.35	16.86	16.96
10M	QPSK	1#0	0	0	17.17	17.37	17.52
		1#24	0	0	17.50	16.98	17.31
		1#49	0	0	17.38	17.48	17.07
		25#0	1	1	17.14	17.29	17.41
		25#12	1	1	17.32	17.00	17.36
		25#24	1	1	17.54	17.49	17.35
		50#0	1	1	17.84	17.26	17.30
	16-QAM	1#0	1	1	17.30	17.13	17.50
		1#24	1	1	17.16	17.08	17.56
		1#49	1	1	17.54	17.32	17.70
		25#0	2	2	17.34	16.70	17.27
		25#12	2	2	17.08	17.36	17.35
		25#24	2	2	16.98	17.43	17.35
		50#0	2	2	17.37	17.08	17.44
15M	QPSK	1#0	0	0	17.32	17.44	17.40
		1#37	0	0	17.14	17.19	17.34
		1#74	0	0	17.53	17.45	17.59
		36#0	1	1	17.48	17.29	17.16
		36#17	1	1	17.17	17.33	17.72
		36#35	1	1	17.22	17.17	17.29
		75#0	1	1	17.74	17.41	17.11
	16-QAM	1#0	1	1	17.44	17.19	17.57
		1#37	1	1	17.23	17.10	17.16
		1#74	1	1	17.52	17.57	17.27
		36#0	2	2	17.51	17.45	17.17
		36#17	2	2	17.06	17.02	17.33
		36#35	2	2	17.64	17.23	17.18
		75#0	2	2	17.65	17.33	17.43

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1#0	0	0	17.58	17.09	17.48
		1#49	0	0	17.17	17.57	17.47
		1#99	0	0	17.65	17.27	17.64
		50#0	1	1	17.46	17.43	17.51
		50#24	1	1	17.17	17.19	17.46
		50#49	1	1	17.52	17.11	17.19
		100#0	1	1	17.56	17.31	17.21
	16-QAM	1#0	1	1	17.39	17.08	17.06
		1#49	1	1	17.12	17.68	17.15
		1#99	1	1	17.42	17.03	17.55
		50#0	2	2	17.16	17.16	17.50
		50#24	2	2	17.52	17.43	17.62
		50#49	2	2	17.47	16.96	17.46
		100#0	2	2	17.04	17.58	16.96

LTE Band 41(Sensor Triggered):

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	17.40	17.32	17.01
		1#12	0	0	17.62	17.11	17.44
		1#24	0	0	17.07	17.48	17.23
		12#0	1	1	17.45	17.18	**17.86**
		12#6	1	1	17.17	17.37	16.89
		12#11	1	1	17.36	17.09	17.41
		25#0	1	1	17.42	17.05	17.43
	16-QAM	1#0	1	1	16.91	17.32	16.81
		1#12	1	1	17.34	17.69	17.47
		1#24	1	1	17.21	17.13	17.25
		12#0	2	2	17.05	17.52	17.54
		12#6	2	2	17.66	17.39	17.56
		12#11	2	2	17.16	17.52	17.28
		25#0	2	2	17.25	17.37	17.51
10M	QPSK	1#0	0	0	17.15	17.54	17.29
		1#24	0	0	17.45	17.42	17.26
		1#49	0	0	16.97	17.25	17.16
		25#0	1	1	17.38	17.12	17.17
		25#12	1	1	17.24	17.52	16.86
		25#24	1	1	17.17	17.57	17.37
		50#0	1	1	17.45	17.60	17.43
	16-QAM	1#0	1	1	17.28	17.64	17.25
		1#24	1	1	17.19	17.33	17.13
		1#49	1	1	17.48	17.01	17.08
		25#0	2	2	17.04	17.26	16.92
		25#12	2	2	17.25	17.02	17.30
		25#24	2	2	16.96	17.52	17.38
		50#0	2	2	17.07	17.16	17.16
15M	QPSK	1#0	0	0	17.50	17.25	16.99
		1#37	0	0	16.79	17.47	17.30
		1#74	0	0	17.24	17.32	16.91
		36#0	1	1	17.29	17.39	17.58
		36#18	1	1	17.01	17.29	17.24
		36#37	1	1	17.03	17.31	17.30
		75#0	1	1	17.28	17.18	16.86
	16-QAM	1#0	1	1	16.91	17.47	17.51
		1#37	1	1	17.63	17.19	17.47
		1#74	1	1	17.17	17.29	17.36
		36#0	2	2	17.24	17.32	16.73
		36#18	2	2	17.35	17.30	16.95
		36#37	2	2	16.98	17.17	17.32
		75#0	2	2	17.18	17.49	16.93

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	1#0	0	0	17.69	17.76	17.62
		1#49	0	0	17.13	17.15	17.13
		1#99	0	0	17.14	17.67	17.16
		50#0	1	1	17.47	17.45	17.39
		50#24	1	1	17.12	17.49	17.30
		50#49	1	1	17.40	17.52	17.51
		100#0	1	1	17.42	17.16	17.18
	16-QAM	1#0	1	1	17.61	17.54	17.15
		1#49	1	1	17.21	17.28	16.95
		1#99	1	1	17.34	17.59	16.94
		50#0	2	2	16.87	17.15	16.81
		50#24	2	2	17.42	17.46	17.39
		50#49	2	2	17.44	17.36	17.10
		100#0	2	2	17.03	17.38	16.91

Note:

1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
2. The CMW500 Wideband Radio Communication tester is used for LTE output power measurements and SAR testing. Closed loop power control is used to keep the radio transmitters the max output power during the test.
3. KDB941225D05v02- SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

WLAN 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Max Average Output Power(dBm)
802.11b	2412	1Mbps	13.26
	2437		**13.45**
	2462		13.30
802.11g	2412	6Mbps	12.34
	2437		12.79
	2462		12.42
802.11n HT20	2412	MCS0	12.37
	2437		12.02
	2462		12.10
802.11n HT40	2422	MCS0	11.94
	2437		12.40
	2452		12.02

Wi-Fi 5G:

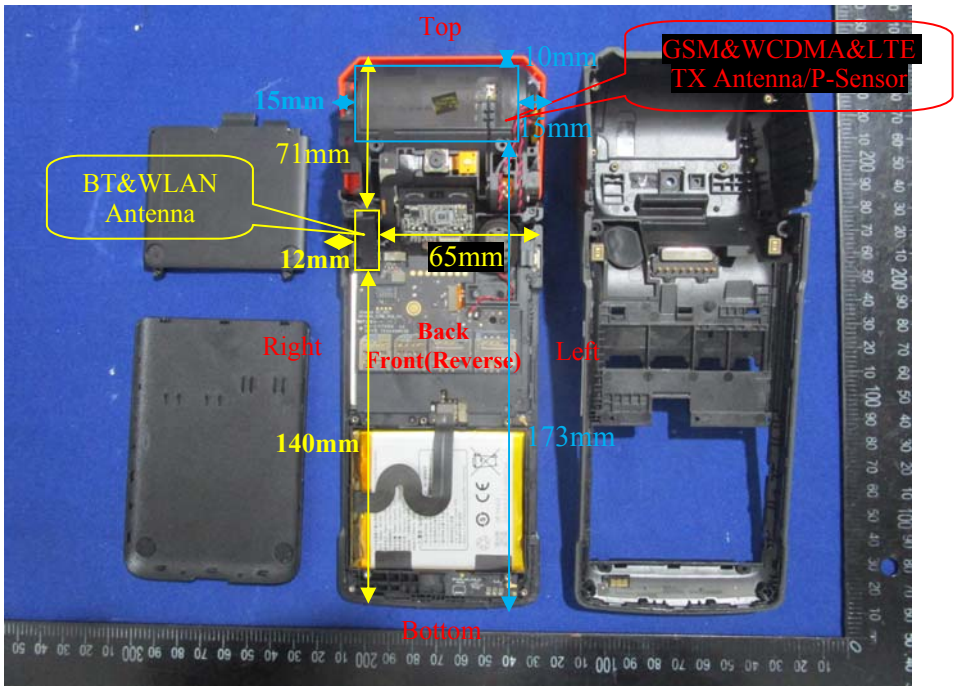
UNII Band	Mode	Frequency (MHz)	Data Rate	Max Average Output Power(dBm) (dBm)
5.2G WLAN (5150~5250MHz)	802.11a	5180	6Mbps	11.94
		5200		**12.12**
		5240		11.91
	802.11n20	5180	MCS0	11.67
		5200		11.86
		5240		12.05
	802.11n40	5190	MCS0	11.15
		5230		11.02
5.8G WLAN (5725~5850MHz)	802.11a	5745	6Mbps	11.28
		5785		11.35
		5825		**11.46**
	802.11n20	5745	MCS0	11.31
		5785		11.28
		5825		11.43
	802.11n40	5755	MCS0	11.12
		5795		11.05

Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
BDR(GFSK)	2402	8.61
	2441	8.58
	2480	8.10
EDR(π/4-DQPSK)	2402	8.37
	2441	8.22
	2480	7.97
EDR(8DPSK)	2402	8.50
	2441	**8.97**
	2480	8.39
BLE	2402	-1.14
	2440	-1.22
	2480	-1.55

Standalone SAR test exclusion considerations

Antennas Location:



Antenna Distance To Edge

Antenna Distance To Edge(mm)					
Antenna	**Back**	**Left**	**Right**	**Top**	**Bottom**
WWAN(GSM/WCDMA/LTE)	< 5	15	15	10	173
WLAN/BT Antenna	< 5	65	12	71	140

Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
Bluetooth	2480	9	7.94	0	2.5	3	YES

NOTE:
The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤7.5 for 10-g extremity SAR, where
1. f(GHz) is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Standalone SAR estimation:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated (W/kg)
BT Body	2480	9	7.94	0	0.33
	2480	9	7.94	10	0.17
	2480	9	7.94	15	0.11
	2480	9	7.94	20	0.08

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
[(max. power of channel, including tune-up tolerance , mW)/(min. test separation distance,mm)] · [√f(GHz)/x]
W/kg for test separation distances ≤50 mm;
where x = 7.5 for 1-g SAR and *x* = 18.75 for 10-g SAR.
When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion

Standalone SAR test exclusion considerations:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Test Exclusion Distance (mm)
GSM 850	848.8	26.5	446.68	100
PCS 1900	1909.8	22.5	177.83	56
CDMA BC0	848.31	24.4	275.42	70
CDMA BC1	1908.75	23.4	218.78	59
WCDMA Band 2	1907.6	23.5	223.87	59.5
WCDMA Band 4	1752.6	23.5	223.87	60
WCDMA Band 5	846.6	22.4	173.78	52
LTE Band 2	1900	21.6	144.54	53
LTE Band 4	1745	21.6	144.54	53
LTE Band 5	844	21.7	147.91	45.3
LTE Band 7	2560	21.5	141.25	55
LTE Band 12	711	21.6	144.54	40.6
LTE Band 17	711	21.6	144.54	40.6
LTE Band 25	1905	21.7	147.91	53.5
LTE Band 26	841.5	21.7	147.91	45.3
LTE Band 38	2610	22.6	181.97	59
LTE Band 41	2680	22.6	181.97	59
WLAN 2.4G	2462	13.5	22.39	11.7
WLAN 5.2G	5200	12.3	16.98	12.9
WLAN 5.8G	5785	11.5	14.13	11.3

Note: The maximum time based average power is used for calculation.

SAR test exclusion for the EUT edge considerations Result

Mode	Back	Left	Right	Top	Bottom
GSM 850	**Required**	**Required**	**Required**	**Required**	Exclusion
PCS 1900	**Required**	**Required**	**Required**	**Required**	Exclusion
CDMA BC0	**Required**	**Required**	**Required**	**Required**	Exclusion
CDMA BC1	**Required**	**Required**	**Required**	**Required**	Exclusion
WCDMA Band 2	**Required**	**Required**	**Required**	**Required**	Exclusion
WCDMA Band 4	**Required**	**Required**	**Required**	**Required**	Exclusion
WCDMA Band 5	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 2	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 4	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 5	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 7	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 12	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 17	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 25	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 26	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 38	**Required**	**Required**	**Required**	**Required**	Exclusion
LTE Band 41	**Required**	**Required**	**Required**	**Required**	Exclusion
WLAN 2.4G	**Required**	Exclusion	**Required**	Exclusion	Exclusion
WLAN 5.2G	**Required**	Exclusion	**Required**	Exclusion	Exclusion
WLAN 5.8G	**Required**	Exclusion	**Required**	Exclusion	Exclusion

Note:
Required:The distance is less than **Test Exclusion Distance**, the SAR test is required.
Exclusion: The distance is large than **Test Exclusion Distance**, SAR test is not required.

SAR test exclusion for the EUT edge considerations detail:

Distance< 50mm(To Edges)

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·
[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤7.5 for 10-g extremity SAR, where
1. f(GHz) is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.
5. The Time based average Power is used for calculation

Distance> 50mm(To Edges)

At 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following:

a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz

b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	22.5-23.9 ℃	23.4-24.3 ℃	22.1-23.9 ℃	22.6-23.6 ℃
Relative Humidity:	47 %	44 %	45 %	47 %
ATM Pressure:	100.3 kPa	100.7 kPa	100.5 kPa	100.2 kPa
Test Date:	2019/08/31	2019/09/01	2019/09/02	2019/09/03
Temperature:	22.8-23.1 ℃	22.3-23.2 ℃	22.4-23.3 ℃	/
Relative Humidity:	42 %	41 %	40 %	/
ATM Pressure:	99.8 kPa	99.6 kPa	101.4 kPa	/
Test Date:	2019/09/04	2019/09/05	2019/09/25	/

Testing was performed by Steve Zhou, Brave Lu, Harvey Lei.

Sensor Triggered:

GSM 850:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	24.51	24.7	1.045	0.493	**0.52**	**1#**
	848.8	GPRS	/	/	/	/	/	/
Body Left (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	24.51	24.7	1.045	0.044	0.05	2#
	848.8	GPRS	/	/	/	/	/	/
Body Right (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	24.51	24.7	1.045	0.109	0.11	3#
	848.8	GPRS	/	/	/	/	/	/
Body Top (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	24.51	24.7	1.045	0.044	0.05	4#
	848.8	GPRS	/	/	/	/	/	/

Test on 2019/8/31

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.
4. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

GSM 1900:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	21.45	21.7	1.059	0.585	**0.62**	**5#**
	1909.8	GPRS	/	/	/	/	/	/
Body Left (0mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	21.45	21.7	1.059	0.016	0.02	6#
	1909.8	GPRS	/	/	/	/	/	/
Body Right (0mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	21.45	21.7	1.059	0.030	0.03	7#
	1909.8	GPRS	/	/	/	/	/	/
Body Top (0mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	21.45	21.7	1.059	0.084	0.09	8#
	1909.8	GPRS	/	/	/	/	/	/

Test on 2019/9/2

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.
4. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 2DL+3UL is the worst case.

CDMA BC0:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	824.7	RTAP 153.6	/	/	/	/	/	/
	836.52	RTAP 153.6	19.56	19.8	1.057	0.510	**0.54**	**9#**
	848.31	RTAP 153.6	/	/	/	/	/	/
Body Left (0mm)	824.7	RTAP 153.6	/	/	/	/	/	/
	836.52	RTAP 153.6	19.56	19.8	1.057	0.064	0.07	10#
	848.31	RTAP 153.6	/	/	/	/	/	/
Body Right (0mm)	824.7	RTAP 153.6	/	/	/	/	/	/
	836.52	RTAP 153.6	19.56	19.8	1.057	0.157	0.17	11#
	848.31	RTAP 153.6	/	/	/	/	/	/
Body Top (0mm)	824.7	RTAP 153.6	/	/	/	/	/	/
	836.52	RTAP 153.6	19.56	19.8	1.057	0.075	0.08	12#
	848.31	RTAP 153.6	/	/	/	/	/	/

Test on 2019/8/31

CDMA BC1:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	1851.25	RTAP 153.6	/	/	/	/	/	/
	1880	RTAP 153.6	18.57	18.7	1.03	0.435	**0.45**	**13#**
	1908.75	RTAP 153.6	/	/	/	/	/	/
Body Left (0mm)	1851.25	RTAP 153.6	/	/	/	/	/	/
	1880	RTAP 153.6	18.57	18.7	1.03	0.198	0.20	14#
	1908.75	RTAP 153.6	/	/	/	/	/	/
Body Right (0mm)	1851.25	RTAP 153.6	/	/	/	/	/	/
	1880	RTAP 153.6	18.57	18.7	1.03	0.241	0.25	15#
	1908.75	RTAP 153.6	/	/	/	/	/	/
Body Top (0mm)	1851.25	RTAP 153.6	/	/	/	/	/	/
	1880	RTAP 153.6	18.57	18.7	1.03	0.089	0.09	16#
	1908.75	RTAP 153.6	/	/	/	/	/	/

Test on 2019/9/2

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

WCDMA Band 2:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	18.76	18.9	1.033	0.447	**0.46**	**17#**
	1907.6	RMC	/	/	/	/	/	/
Body Left (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	18.76	18.9	1.033	0.160	0.17	18#
	1907.6	RMC	/	/	/	/	/	/
Body Right (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	18.76	18.9	1.033	0.021	0.02	19#
	1907.6	RMC	/	/	/	/	/	/
Body Top (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	18.76	18.9	1.033	0.081	0.08	20#
	1907.6	RMC	/	/	/	/	/	/

Test on 2019/9/2

WCDMA Band 4

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	18.68	18.8	1.028	0.510	**0.52**	**21#**
	1752.6	RMC	/	/	/	/	/	/
Body Left (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	18.68	18.8	1.028	0.032	0.03	22#
	1752.6	RMC	/	/	/	/	/	/
Body Right (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	18.68	18.8	1.028	0.249	0.26	23#
	1752.6	RMC	/	/	/	/	/	/
Body Top (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	18.68	18.8	1.028	0.151	0.16	24#
	1752.6	RMC	/	/	/	/	/	/

WCDMA Band 5:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	826.4	RMC	17.45	17.6	1.035	1.16	**1.20**	**25#**
	836.6	RMC	17.39	17.6	1.05	1.14	1.20	26#
	846.6	RMC	17.34	17.6	1.062	1.12	1.19	27#
Body Left (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	17.39	17.6	1.05	0.140	0.15	28#
	846.6	RMC	/	/	/	/	/	/
Body Right (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	17.39	17.6	1.05	0.332	0.35	**29#**
	846.6	RMC	/	/	/	/	/	/
Body Top (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	17.39	17.6	1.05	0.192	0.20	30#
	846.6	RMC	/	/	/	/	/	/

Test on 2019/8/31

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model.
4. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.
5. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

LTE Band 2:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	16.72	17	1.067	0.423	**0.45**	**31#**
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	16.51	17	1.119	0.380	0.43	32#
Body Left (0mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	16.72	17	1.067	0.141	0.15	33#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	16.51	17	1.119	0.101	0.11	34#
Body Right (0mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	16.72	17	1.067	0.202	0.22	35#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	16.51	17	1.119	0.163	0.18	36#
Body Top (0mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	16.72	17	1.067	0.086	0.09	37#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	16.51	17	1.119	0.073	0.08	38#

Test on 2019/9/3

LTE Band 4:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	16.86	17	1.033	0.411	**0.42**	**39#**
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	16.56	17	1.107	0.366	0.41	40#
Body Left (0mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	16.86	17	1.033	0.284	0.29	41#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	16.56	17	1.107	0.211	0.23	42#
Body Right (0mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	16.86	17	1.033	0.224	0.23	43#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	16.56	17	1.107	0.168	0.19	44#
Body Top (0mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	16.86	17	1.033	0.123	0.13	45#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	16.56	17	1.107	0.105	0.12	46#

LTE Band 7:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	16.69	16.8	1.026	0.646	0.66	47#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	16.51	16.8	1.069	0.630	**0.67**	**48#**
Body Left (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	16.69	16.8	1.026	0.340	0.35	49#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	16.51	16.8	1.069	0.274	0.29	50#
Body Right (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	16.69	16.8	1.026	0.310	0.32	51#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	16.51	16.8	1.069	0.240	0.26	52#
Body Top (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	16.69	16.8	1.026	0.595	0.61	53#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	16.51	16.8	1.069	0.562	0.60	54#

LTE Band 12&17:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	704	10	1RB	16.56	17	1.107	0.822	0.91	55#
	707.5	10	1RB	16.7	17	1.072	0.934	**1.00**	**56#**
	711	10	1RB	16.45	17	1.135	0.807	0.92	57#
	707.5	10	50%RB	16.51	17	1.119	0.648	0.73	58#
Body Left (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	16.7	17	1.072	0.245	0.26	59#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	16.51	17	1.119	0.195	0.22	60#
Body Right (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	16.7	17	1.072	0.424	0.45	61#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	16.51	17	1.119	0.340	0.38	62#
Body Top (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	16.7	17	1.072	0.082	0.09	63#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	16.51	17	1.119	0.068	0.08	64#

Test on 2019/9/1

Note: The E-UTRA Operating Band 17 is a subset of band 12, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.*

LTE Band 25:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	16.89	17	1.026	0.473	**0.49**	**65#**
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	16.43	17	1.14	0.408	0.47	66#
Body Left (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	16.89	17	1.026	0.134	0.14	67#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	16.43	17	1.14	0.105	0.12	68#
Body Right (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	16.89	17	1.026	0.213	0.22	69#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	16.43	17	1.14	0.162	0.18	70#
Body Top (0mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	16.89	17	1.026	0.109	0.11	71#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	16.43	17	1.14	0.086	0.10	72#

Test on 2019/9/3

LTE Band 26&5:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	16.8	17	1.047	0.744	**0.78**	**73#**
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	16.72	17	1.067	0.716	0.76	74#
Body Left (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	16.8	17	1.047	0.145	0.15	75#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	16.72	17	1.067	0.120	0.13	76#
Body Right (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	16.8	17	1.047	0.390	0.41	77#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	16.72	17	1.067	0.322	0.34	78#
Body Top (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	16.8	17	1.047	0.085	0.09	79#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	16.72	17	1.067	0.082	0.09	80#

Test on 2019/9/1

Note: The E-UTRA Operating Band 5 is a subset of band 26, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.*

LTE Band 41&38:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	2506	20	1RB	/	/	/	/	/	/
	2593	20	1RB	17.76	18	1.057	0.599	0.63	81#
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	17.52	18	1.117	0.541	0.60	82#
Body Left (0mm)	2506	20	1RB	/	/	/	/	/	/
	2593	20	1RB	17.76	18	1.057	0.113	0.12	83#
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	17.52	18	1.117	0.106	0.12	84#
Body Right (0mm)	2506	20	1RB	/	/	/	/	/	/
	2593	20	1RB	17.76	18	1.057	0.092	0.1	85#
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	17.52	18	1.117	0.067	0.07	86#
Body Top (0mm)	2506	20	1RB	/	/	/	/	/	/
	2593	20	1RB	17.76	18	1.057	0.701	**0.74**	**87#**
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	17.52	18	1.117	0.603	0.67	88#

Note: The E-UTRA Operating Band 38 is a subset of band 41, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.*

Note:

1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
2. KDB941225D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.
3. When the SAR value is less than half of the limit, testing for other channels are optional.
4. Worst case SAR for 50% RB allocation is selected to be tested.
5. KDB941225D05- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
6. KDB941225D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is <1.45 W/kg, tests for the remaining required test channels are optional.
7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.
8. KDB941225D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

Sensor NOT Triggered:

GSM 850:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	29.21	29.5	1.069	0.029	**0.03**	**89#**
	848.8	GPRS	/	/	/	/	/	/
Body Left (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	29.21	29.5	1.069	0.017	0.02	90#
	848.8	GPRS	/	/	/	/	/	/
Body Right (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	29.21	29.5	1.069	0.028	0.03	91#
	848.8	GPRS	/	/	/	/	/	/
Body Top (15mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	29.21	29.5	1.069	0.013	0.01	92#
	848.8	GPRS	/	/	/	/	/	/

Test on 2019/8/31

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.
4. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

GSM 1900:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.21	26.5	1.069	0.101	**0.11**	**93#**
	1909.8	GPRS	/	/	/	/	/	/
Body Left (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.21	26.5	1.069	0.018	0.02	94#
	1909.8	GPRS	/	/	/	/	/	/
Body Right (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.21	26.5	1.069	0.021	0.02	95#
	1909.8	GPRS	/	/	/	/	/	/
Body Top (15mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.21	26.5	1.069	0.030	0.03	96#
	1909.8	GPRS	/	/	/	/	/	/

Test on 2019/9/2

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.
4. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 2DL+3UL is the worst case.

CDMA BC0:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	824.7	RTAP 153.6	/	/	/	/	/	/
	836.52	RTAP 153.6	24.22	24.4	1.042	0.068	**0.07**	**97#**
	848.31	RTAP 153.6	/	/	/	/	/	/
Body Left (10mm)	824.7	RTAP 153.6	/	/	/	/	/	/
	836.52	RTAP 153.6	24.22	24.4	1.042	0.022	0.02	98#
	848.31	RTAP 153.6	/	/	/	/	/	/
Body Right (10mm)	824.7	RTAP 153.6	/	/	/	/	/	/
	836.52	RTAP 153.6	24.22	24.4	1.042	0.050	0.05	99#
	848.31	RTAP 153.6	/	/	/	/	/	/
Body Top (15mm)	824.7	RTAP 153.6	/	/	/	/	/	/
	836.52	RTAP 153.6	24.22	24.4	1.042	0.029	0.03	100#
	848.31	RTAP 153.6	/	/	/	/	/	/

Test on 2019/8/31

CDMA BC1:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	1851.25	RTAP 153.6	/	/	/	/	/	/
	1880	RTAP 153.6	23.25	23.4	1.035	0.573	**0.59**	**101#**
	1908.75	RTAP 153.6	/	/	/	/	/	/
Body Left (10mm)	1851.25	RTAP 153.6	/	/	/	/	/	/
	1880	RTAP 153.6	23.25	23.4	1.035	0.076	0.08	102#
	1908.75	RTAP 153.6	/	/	/	/	/	/
Body Right (10mm)	1851.25	RTAP 153.6	/	/	/	/	/	/
	1880	RTAP 153.6	23.25	23.4	1.035	0.091	0.09	103#
	1908.75	RTAP 153.6	/	/	/	/	/	/
Body Top (15mm)	1851.25	RTAP 153.6	/	/	/	/	/	/
	1880	RTAP 153.6	23.25	23.4	1.035	0.198	0.20	104#
	1908.75	RTAP 153.6	/	/	/	/	/	/

Test on 2019/9/2

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

WCDMA Band 2:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.45	23.5	1.012	0.075	0.08	105#
	1907.6	RMC	/	/	/	/	/	/
Body Left (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.45	23.5	1.012	0.081	0.08	106#
	1907.6	RMC	/	/	/	/	/	/
Body Right (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.45	23.5	1.012	0.065	0.07	107#
	1907.6	RMC	/	/	/	/	/	/
Body Top (15mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.45	23.5	1.012	0.180	**0.18**	**108#**
	1907.6	RMC	/	/	/	/	/	/

Test on 2019/9/2

WCDMA Band 4:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	23.41	23.5	1.021	0.078	0.08	109#
	1752.6	RMC	/	/	/	/	/	/
Body Left (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	23.41	23.5	1.021	0.110	**0.11**	**110#**
	1752.6	RMC	/	/	/	/	/	/
Body Right (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	23.41	23.5	1.021	0.085	0.09	111#
	1752.6	RMC	/	/	/	/	/	/
Body Top (15mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	23.41	23.5	1.021	0.035	0.04	112#
	1752.6	RMC	/	/	/	/	/	/

WCDMA Band 5:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.1	22.4	1.072	0.112	**0.12**	**113#**
	846.6	RMC	/	/	/	/	/	/
Body Left (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.1	22.4	1.072	0.046	0.05	114#
	846.6	RMC	/	/	/	/	/	/
Body Right (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.1	22.4	1.072	0.107	0.11	115#
	846.6	RMC	/	/	/	/	/	/
Body Top (15mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.1	22.4	1.072	0.033	0.04	116#
	846.6	RMC	/	/	/	/	/	/

Test on 2019/8/31

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model.
4. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.
5. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

LTE Band 2:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	1860	20	1RB	21.43	21.6	1.04	0.676	0.70	117#
	1880	20	1RB	21.48	21.6	1.028	0.941	**0.97**	**118#**
	1900	20	1RB	21.56	21.6	1.009	0.602	0.61	119#
	1880	20	50%RB	21.37	21.6	1.054	0.721	0.76	120#
Body Left (10mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	21.48	21.6	1.028	0.063	0.06	121#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	21.37	21.6	1.054	0.054	0.06	122#
Body Right (10mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	21.48	21.6	1.028	0.091	0.09	123#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	21.37	21.6	1.054	0.071	0.07	124#
Body Top (15mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	21.48	21.6	1.028	0.154	0.16	125#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	21.37	21.6	1.054	0.117	0.12	126#

Test on 2019/9/3

LTE Band 4:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	1720	20	1RB	21.39	21.6	1.05	0.667	0.70	127#
	1732.5	20	1RB	21.46	21.6	1.033	0.810	**0.84**	**128#**
	1745	20	1RB	21.31	21.6	1.069	0.633	0.68	129#
	1732.5	20	50%RB	21.3	21.6	1.072	0.649	0.70	130#
Body Left (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	21.46	21.6	1.033	0.103	0.11	131#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.3	21.6	1.072	0.081	0.09	132#
Body Right (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	21.46	21.6	1.033	0.083	0.09	133#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.3	21.6	1.072	0.061	0.07	134#
Body Top (15mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	21.46	21.6	1.033	0.234	0.24	135#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	21.3	21.6	1.072	0.166	0.18	136#

LTE Band 7:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	21.45	21.5	1.012	0.278	0.28	137#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.36	21.5	1.033	0.217	0.22	138#
Body Left (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	21.45	21.5	1.012	0.097	0.10	139#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.36	21.5	1.033	0.081	0.08	140#
Body Right (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	21.45	21.5	1.012	0.097	0.10	141#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.36	21.5	1.033	0.088	0.09	142#
Body Top (15mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	21.45	21.5	1.012	0.377	**0.38**	**143#**
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.36	21.5	1.033	0.280	0.29	144#

LTE Band 12&17:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	21.57	21.6	1.007	0.087	0.09	145#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	21.31	21.6	1.069	0.063	0.07	146#
Body Left (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	21.57	21.6	1.007	0.072	0.07	147#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	21.31	21.6	1.069	0.059	0.06	148#
Body Right (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	21.57	21.6	1.007	0.145	**0.15**	**149#**
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	21.31	21.6	1.069	0.123	0.13	150#
Body Top (15mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	21.57	21.6	1.007	0.024	0.02	151#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	21.31	21.6	1.069	0.021	0.02	152#

Test on 2019/9/1

Note: The E-UTRA Operating Band 17 is a subset of band 12, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.*

LTE Band 25:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	21.55	21.7	1.035	0.610	**0.63**	**153#**
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.32	21.7	1.091	0.480	0.52	154#
Body Left (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	21.55	21.7	1.035	0.066	0.07	155#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.32	21.7	1.091	0.054	0.06	156#
Body Right (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	21.55	21.7	1.035	0.089	0.09	157#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.32	21.7	1.091	0.071	0.08	158#
Body Top (15mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	21.55	21.7	1.035	0.151	0.16	159#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	21.32	21.7	1.091	0.114	0.12	160#

Test on 2019/9/3

LTE Band 26&5:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	21.55	21.7	1.035	0.099	0.10	161#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	21.36	21.7	1.081	0.076	0.08	162#
Body Left (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	21.55	21.7	1.035	0.051	0.05	163#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	21.36	21.7	1.081	0.042	0.05	164#
Body Right (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	21.55	21.7	1.035	0.122	**0.13**	**165#**
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	21.36	21.7	1.081	0.097	0.10	166#
Body Top (15mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	21.55	21.7	1.035	0.022	0.02	167#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	21.36	21.7	1.081	0.018	0.02	168#

Test on 2019/9/1

Note: The E-UTRA Operating Band 5 is a subset of band 26, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.*

LTE Band 41&38:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	2506	20	1RB	/	/	/	/	/	/
	2593	20	1RB	22.41	22.6	1.045	0.086	0.09	169#
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	22.28	22.6	1.076	0.066	0.07	170#
Body Left (10mm)	2506	20	1RB	/	/	/	/	/	/
	2593	20	1RB	22.41	22.6	1.045	0.063	0.07	171#
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	22.28	22.6	1.076	0.054	0.06	172#
Body Right (10mm)	2506	20	1RB	/	/	/	/	/	/
	2593	20	1RB	22.41	22.6	1.045	0.049	0.05	173#
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	22.28	22.6	1.076	0.043	0.05	174#
Body Top (15mm)	2506	20	1RB	/	/	/	/	/	/
	2593	20	1RB	22.41	22.6	1.045	0.151	**0.16**	**175#**
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	22.28	22.6	1.076	0.118	0.13	176#

Note: The E-UTRA Operating Band 38 is a subset of band 41, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.*

Note:

1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
2. KDB941225D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.
3. When the SAR value is less than half of the limit, testing for other channels are optional.
4. Worst case SAR for 50% RB allocation is selected to be tested.
5. KDB941225D05- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
6. KDB941225D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is <1.45 W/kg, tests for the remaining required test channels are optional.
7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.
8. KDB941225D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

Wi-Fi 2.4G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.45	13.5	1.012	0.135	0.14	177#
	2462	802.11b	/	/	/	/	/	/
Body Right (0mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.45	13.5	1.012	0.480	**0.49**	**178#**
	2462	802.11b	/	/	/	/	/	/

Test on 2019/9/5

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.45	13.5	1.012	0.028	0.03	179#
	2462	802.11b	/	/	/	/	/	/
Body Right (10mm)	2412	802.11b	/	/	/	/	/	/
	2437	802.11b	13.45	13.5	1.012	0.142	**0.14**	**180#**
	2462	802.11b	/	/	/	/	/	/

Test on 2019/9/25

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. KDB 248227 D01-SAR measurement is not required for 2.4 GHz OFDM(801.11g/n20) when the highest reported SAR for DSSS(802.11b) is ≤ 1.2 W/kg, and the output power for DSSS is not less than that for OFDM.

Wi-Fi 5.2G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	12.12	12.3	1.042	0.114	0.12	181#
	5240	802.11a	/	/	/	/	/	/
Body Right (0mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	12.12	12.3	1.042	0.182	**0.19**	**182#**
	5240	802.11a	/	/	/	/	/	/

Test on 2019/9/2

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	12.12	12.3	1.042	0.037	0.04	183#
	5240	802.11a	/	/	/	/	/	/
Body Right (10mm)	5180	802.11a	/	/	/	/	/	/
	5200	802.11a	12.12	12.3	1.042	0.096	**0.10**	**184#**
	5240	802.11a	/	/	/	/	/	/

Test on 2019/9/25

Wi-Fi 5.8G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	11.35	11.5	1.035	0.190	0.20	185#
	5825	802.11a	/	/	/	/	/	/
Body Right (0mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	11.35	11.5	1.035	0.340	**0.35**	**186#**
	5825	802.11a	/	/	/	/	/	/

Test on 2019/9/2

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (20mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	11.35	11.5	1.035	0.081	0.08	187#
	5825	802.11a	/	/	/	/	/	/
Body Right (10mm)	5745	802.11a	/	/	/	/	/	/
	5785	802.11a	11.35	11.5	1.035	0.141	**0.15**	**188#**
	5825	802.11a	/	/	/	/	/	/

Test on 2019/9/25

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

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.

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

The Highest Measured SAR Configuration in Each Frequency Band

1g Body SAR

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
750MHz (650-850 MHz)	WCDMA Band 5	826.4	Body Back	1.16	1.13	**1.03**
1750MHz (1650-1850 MHz)	LTE Band 4	1732.5	Body Back	0.810	0.792	1.02
1900MHz (1850-2000 MHz)	LTE Band 2	1880	Body Back	0.941	0.936	1.01

Note:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.
2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
3. 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.

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	**Simultaneous?**	**Hotspot?**
WWAN(GSM/CDMA/WCDMA/LTE) + Bluetooth	√	×
WWAN(GSM/CDMA/WCDMA/LTE) + WLAN	√	×
Bluetooth + WLAN	×	×

Simultaneous SAR test exclusion considerations:

Sensor Triggered:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
GSM 850+Bluetooth	Body Back	0.52	0.33	0.85
	Body Left	0.05	0.33	0.38
	Body Right	0.11	0.33	0.44
	Body Top	0.05	0.33	0.38
PCS1900+Bluetooth	Body Back	0.62	0.33	0.95
	Body Left	0.02	0.33	0.35
	Body Right	0.03	0.33	0.36
	Body Top	0.09	0.33	0.42
CDMA BC0+Bluetooth	Body Back	0.54	0.33	0.87
	Body Left	0.07	0.33	0.4
	Body Right	0.17	0.33	0.5
	Body Top	0.08	0.33	0.41
CDMA BC1+Bluetooth	Body Back	0.45	0.33	0.78
	Body Left	0.20	0.33	0.53
	Body Right	0.25	0.33	0.58
	Body Top	0.09	0.33	0.42
WCDMA Band 2+Bluetooth	Body Back	0.46	0.33	0.79
	Body Left	0.17	0.33	0.5
	Body Right	0.02	0.33	0.35
	Body Top	0.08	0.33	0.41
WCDMA Band 4+Bluetooth	Body Back	0.52	0.33	0.85
	Body Left	0.03	0.33	0.36
	Body Right	0.26	0.33	0.59
	Body Top	0.16	0.33	0.49
WCDMA Band 5+Bluetooth	Body Back	1.20	0.33	**1.53**
	Body Left	0.15	0.33	0.48
	Body Right	0.35	0.33	0.68
	Body Top	0.20	0.33	0.53
LTE Band 2+Bluetooth	Body Back	0.45	0.33	0.78
	Body Left	0.15	0.33	0.48
	Body Right	0.22	0.33	0.55
	Body Top	0.09	0.33	0.42

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
LTE Band 4+Bluetooth	Body Back	0.42	0.33	0.75
	Body Left	0.29	0.33	0.62
	Body Right	0.23	0.33	0.56
	Body Top	0.13	0.33	0.46
LTE Band 7+Bluetooth	Body Back	0.67	0.33	1
	Body Left	0.35	0.33	0.68
	Body Right	0.32	0.33	0.65
	Body Top	0.61	0.33	0.94
LTE Band 12&17+Bluetooth	Body Back	1	0.33	1.33
	Body Left	0.26	0.33	0.59
	Body Right	0.45	0.33	0.78
	Body Top	0.09	0.33	0.42
LTE Band 25+Bluetooth	Body Back	0.49	0.33	0.82
	Body Left	0.14	0.33	0.47
	Body Right	0.22	0.33	0.55
	Body Top	0.11	0.33	0.44
LTE Band 26&5+Bluetooth	Body Back	0.78	0.33	1.11
	Body Left	0.15	0.33	0.48
	Body Right	0.41	0.33	0.74
	Body Top	0.09	0.33	0.42
LTE Band 41&38+Bluetooth	Body Back	0.63	0.33	0.96
	Body Left	0.12	0.33	0.45
	Body Right	0.10	0.33	0.43
	Body Top	0.74	0.33	1.07

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
GSM 850+WLAN 2.4G	Body Back	0.52	0.14	0.66
	Body Left	0.05	N/A	N/A
	Body Right	0.11	0.49	0.6
	Body Top	0.05	N/A	N/A
PCS1900+ WLAN 2.4G	Body Back	0.62	0.14	0.76
	Body Left	0.02	N/A	N/A
	Body Right	0.03	0.49	0.52
	Body Top	0.09	N/A	N/A
CDMA BC0+ WLAN 2.4G	Body Back	0.54	0.14	0.68
	Body Left	0.07	N/A	N/A
	Body Right	0.17	0.49	0.66
	Body Top	0.08	N/A	N/A
CDMA BC1+ WLAN 2.4G	Body Back	0.45	0.14	0.59
	Body Left	0.20	N/A	N/A
	Body Right	0.25	0.49	0.74
	Body Top	0.09	N/A	N/A
WCDMA Band 2+ WLAN 2.4G	Body Back	0.46	0.14	0.6
	Body Left	0.17	N/A	N/A
	Body Right	0.02	0.49	0.51
	Body Top	0.08	N/A	N/A
WCDMA Band 4+ WLAN 2.4G	Body Back	0.52	0.14	0.66
	Body Left	0.03	N/A	N/A
	Body Right	0.26	0.49	0.75
	Body Top	0.16	N/A	N/A
WCDMA Band 5+ WLAN 2.4G	Body Back	1.20	0.14	1.34
	Body Left	0.15	N/A	N/A
	Body Right	0.35	0.49	0.84
	Body Top	0.20	N/A	N/A
LTE Band 2+ WLAN 2.4G	Body Back	0.45	0.14	0.59
	Body Left	0.15	N/A	N/A
	Body Right	0.22	0.49	0.71
	Body Top	0.09	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
LTE Band 4+ WLAN 2.4G	Body Back	0.42	0.14	0.56
	Body Left	0.29	N/A	N/A
	Body Right	0.23	0.49	0.72
	Body Top	0.13	N/A	N/A
LTE Band 7+ WLAN 2.4G	Body Back	0.67	0.14	0.81
	Body Left	0.35	N/A	N/A
	Body Right	0.32	0.49	0.81
	Body Top	0.61	N/A	N/A
LTE Band 12&17+WLAN 2.4G	Body Back	1	0.14	1.14
	Body Left	0.26	N/A	N/A
	Body Right	0.45	0.49	0.94
	Body Top	0.09	N/A	N/A
LTE Band 25+ WLAN 2.4G	Body Back	0.49	0.14	0.63
	Body Left	0.14	N/A	N/A
	Body Right	0.22	0.49	0.71
	Body Top	0.11	N/A	N/A
LTE Band 26&5+ WLAN 2.4G	Body Back	0.78	0.14	0.92
	Body Left	0.15	N/A	N/A
	Body Right	0.41	0.49	0.9
	Body Top	0.09	N/A	N/A
LTE Band 41&38+WLAN 2.4G	Body Back	0.63	0.14	0.77
	Body Left	0.12	N/A	N/A
	Body Right	0.10	0.49	0.59
	Body Top	0.74	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
GSM 850+WLAN 5.2G	Body Back	0.52	0.12	0.64
	Body Left	0.05	N/A	N/A
	Body Right	0.11	0.19	0.3
	Body Top	0.05	N/A	N/A
PCS1900+ WLAN 5.2G	Body Back	0.62	0.12	0.74
	Body Left	0.02	N/A	N/A
	Body Right	0.03	0.19	0.22
	Body Top	0.09	N/A	N/A
CDMA BC0+ WLAN 5.2G	Body Back	0.54	0.12	0.66
	Body Left	0.07	N/A	N/A
	Body Right	0.17	0.19	0.36
	Body Top	0.08	N/A	N/A
CDMA BC1+ WLAN 5.2G	Body Back	0.45	0.12	0.57
	Body Left	0.20	N/A	N/A
	Body Right	0.25	0.19	0.44
	Body Top	0.09	N/A	N/A
WCDMA Band 2+ WLAN 5.2G	Body Back	0.46	0.12	0.58
	Body Left	0.17	N/A	N/A
	Body Right	0.02	0.19	0.21
	Body Top	0.08	N/A	N/A
WCDMA Band 4+ WLAN 5.2G	Body Back	0.52	0.12	0.64
	Body Left	0.03	N/A	N/A
	Body Right	0.26	0.19	0.45
	Body Top	0.16	N/A	N/A
WCDMA Band 5+ WLAN 5.2G	Body Back	1.20	0.12	1.32
	Body Left	0.15	N/A	N/A
	Body Right	0.35	0.19	0.54
	Body Top	0.20	N/A	N/A
LTE Band 2+ WLAN 5.2G	Body Back	0.45	0.12	0.57
	Body Left	0.15	N/A	N/A
	Body Right	0.22	0.19	0.41
	Body Top	0.09	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
LTE Band 4+ WLAN 5.2G	Body Back	0.42	0.12	0.54
	Body Left	0.29	N/A	N/A
	Body Right	0.23	0.19	0.42
	Body Top	0.13	N/A	N/A
LTE Band 7+ WLAN 5.2G	Body Back	0.67	0.12	0.79
	Body Left	0.35	N/A	N/A
	Body Right	0.32	0.19	0.51
	Body Top	0.61	N/A	N/A
LTE Band 12&17+ WLAN 5.2G	Body Back	1	0.12	1.12
	Body Left	0.26	N/A	N/A
	Body Right	0.45	0.19	0.64
	Body Top	0.09	N/A	N/A
LTE Band 25+ WLAN 5.2G	Body Back	0.49	0.12	0.61
	Body Left	0.14	N/A	N/A
	Body Right	0.22	0.19	0.41
	Body Top	0.11	N/A	N/A
LTE Band 26&5+ WLAN 5.2G	Body Back	0.78	0.12	0.9
	Body Left	0.15	N/A	N/A
	Body Right	0.41	0.19	0.6
	Body Top	0.09	N/A	N/A
LTE Band 41&38+ WLAN 5.2G	Body Back	0.63	0.12	0.75
	Body Left	0.12	N/A	N/A
	Body Right	0.10	0.19	0.29
	Body Top	0.74	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
GSM 850+WLAN 5.8G	Body Back	0.52	0.20	0.72
	Body Left	0.05	N/A	N/A
	Body Right	0.11	0.35	0.46
	Body Top	0.05	N/A	N/A
PCS1900+ WLAN 5.8G	Body Back	0.62	0.20	0.82
	Body Left	0.02	N/A	N/A
	Body Right	0.03	0.35	0.38
	Body Top	0.09	N/A	N/A
CDMA BC0+ WLAN 5.8G	Body Back	0.54	0.20	0.74
	Body Left	0.07	N/A	N/A
	Body Right	0.17	0.35	0.52
	Body Top	0.08	N/A	N/A
CDMA BC1+ WLAN 5.8G	Body Back	0.45	0.20	0.65
	Body Left	0.20	N/A	N/A
	Body Right	0.25	0.35	0.6
	Body Top	0.09	N/A	N/A
WCDMA Band 2+ WLAN 5.8G	Body Back	0.46	0.20	0.66
	Body Left	0.17	N/A	N/A
	Body Right	0.02	0.35	0.37
	Body Top	0.08	N/A	N/A
WCDMA Band 4+ WLAN 5.8G	Body Back	0.52	0.20	0.72
	Body Left	0.03	N/A	N/A
	Body Right	0.26	0.35	0.61
	Body Top	0.16	N/A	N/A
WCDMA Band 5+ WLAN 5.8G	Body Back	1.20	0.20	1.4
	Body Left	0.15	N/A	N/A
	Body Right	0.35	0.35	0.7
	Body Top	0.20	N/A	N/A
LTE Band 2+ WLAN 5.8G	Body Back	0.45	0.20	0.65
	Body Left	0.15	N/A	N/A
	Body Right	0.22	0.35	0.57
	Body Top	0.09	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
LTE Band 4+ WLAN 5.8G	Body Back	0.42	0.20	0.62
	Body Left	0.29	N/A	N/A
	Body Right	0.23	0.35	0.58
	Body Top	0.13	N/A	N/A
LTE Band 7+ WLAN 5.8G	Body Back	0.67	0.20	0.87
	Body Left	0.35	N/A	N/A
	Body Right	0.32	0.35	0.67
	Body Top	0.61	N/A	N/A
LTE Band 12&17+ WLAN 5.8G	Body Back	1	0.20	1.2
	Body Left	0.26	N/A	N/A
	Body Right	0.45	0.35	0.8
	Body Top	0.09	N/A	N/A
LTE Band 25+ WLAN 5.8G	Body Back	0.49	0.20	0.69
	Body Left	0.14	N/A	N/A
	Body Right	0.22	0.35	0.57
	Body Top	0.11	N/A	N/A
LTE Band 26&5+ WLAN 5.8G	Body Back	0.78	0.20	0.98
	Body Left	0.15	N/A	N/A
	Body Right	0.41	0.35	0.76
	Body Top	0.09	N/A	N/A
LTE Band 41&38+ WLAN 5.8G	Body Back	0.63	0.20	0.83
	Body Left	0.12	N/A	N/A
	Body Right	0.10	0.35	0.45
	Body Top	0.74	N/A	N/A

Sensor Not Triggered:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
GSM 850+Bluetooth	Body Back	0.03	0.08	0.11
	Body Left	0.02	0.17	0.19
	Body Right	0.03	0.17	0.20
	Body Top	0.01	0.11	0.12
PCS1900+Bluetooth	Body Back	0.11	0.08	0.19
	Body Left	0.02	0.17	0.19
	Body Right	0.02	0.17	0.19
	Body Top	0.03	0.11	0.14
CDMA BC0+Bluetooth	Body Back	0.07	0.08	0.15
	Body Left	0.02	0.17	0.19
	Body Right	0.05	0.17	0.22
	Body Top	0.03	0.11	0.14
CDMA BC1+Bluetooth	Body Back	0.59	0.08	0.67
	Body Left	0.08	0.17	0.25
	Body Right	0.09	0.17	0.26
	Body Top	0.20	0.11	0.31
WCDMA Band 2+Bluetooth	Body Back	0.08	0.08	0.16
	Body Left	0.08	0.17	0.25
	Body Right	0.07	0.17	0.24
	Body Top	0.18	0.11	0.29
WCDMA Band 4+Bluetooth	Body Back	0.08	0.08	0.16
	Body Left	0.11	0.17	0.28
	Body Right	0.09	0.17	0.26
	Body Top	0.04	0.11	0.15
WCDMA Band 5+Bluetooth	Body Back	0.12	0.08	0.20
	Body Left	0.05	0.17	0.22
	Body Right	0.11	0.17	0.28
	Body Top	0.04	0.11	0.15
LTE Band 2+Bluetooth	Body Back	0.97	0.08	1.05
	Body Left	0.06	0.17	0.23
	Body Right	0.09	0.17	0.26
	Body Top	0.16	0.11	0.27

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
LTE Band 4+Bluetooth	Body Back	0.84	0.08	0.92
	Body Left	0.11	0.17	0.28
	Body Right	0.09	0.17	0.26
	Body Top	0.24	0.11	0.35
LTE Band 7+Bluetooth	Body Back	0.28	0.08	0.36
	Body Left	0.1	0.17	0.27
	Body Right	0.1	0.17	0.27
	Body Top	0.38	0.11	0.49
LTE Band 12&17+Bluetooth	Body Back	0.09	0.08	0.17
	Body Left	0.07	0.17	0.24
	Body Right	0.15	0.17	0.32
	Body Top	0.02	0.11	0.13
LTE Band 25+Bluetooth	Body Back	0.63	0.08	0.71
	Body Left	0.07	0.17	0.24
	Body Right	0.09	0.17	0.26
	Body Top	0.16	0.11	0.27
LTE Band 26&5+Bluetooth	Body Back	0.1	0.08	0.18
	Body Left	0.05	0.17	0.22
	Body Right	0.13	0.17	0.30
	Body Top	0.02	0.11	0.13
LTE Band 41&38+Bluetooth	Body Back	0.09	0.08	0.17
	Body Left	0.07	0.17	0.24
	Body Right	0.05	0.17	0.22
	Body Top	0.16	0.11	0.27

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
GSM 850+WLAN 2.4G	Body Back	0.03	0.03	0.06
	Body Left	0.02	N/A	N/A
	Body Right	0.03	0.14	0.17
	Body Top	0.01	N/A	N/A
PCS1900+ WLAN 2.4G	Body Back	0.11	0.03	0.14
	Body Left	0.02	N/A	N/A
	Body Right	0.02	0.14	0.16
	Body Top	0.03	N/A	N/A
CDMA BC0+ WLAN 2.4G	Body Back	0.07	0.03	0.10
	Body Left	0.02	N/A	N/A
	Body Right	0.05	0.14	0.19
	Body Top	0.03	N/A	N/A
CDMA BC1+ WLAN 2.4G	Body Back	0.59	0.03	0.62
	Body Left	0.08	N/A	N/A
	Body Right	0.09	0.14	0.23
	Body Top	0.20	N/A	N/A
WCDMA Band 2+ WLAN 2.4G	Body Back	0.08	0.03	0.11
	Body Left	0.08	N/A	N/A
	Body Right	0.07	0.14	0.21
	Body Top	0.18	N/A	N/A
WCDMA Band 4+ WLAN 2.4G	Body Back	0.08	0.03	0.11
	Body Left	0.11	N/A	N/A
	Body Right	0.09	0.14	0.23
	Body Top	0.04	N/A	N/A
WCDMA Band 5+ WLAN 2.4G	Body Back	0.12	0.03	0.15
	Body Left	0.05	N/A	N/A
	Body Right	0.11	0.14	0.25
	Body Top	0.04	N/A	N/A
LTE Band 2+ WLAN 2.4G	Body Back	0.97	0.03	1.00
	Body Left	0.06	N/A	N/A
	Body Right	0.09	0.14	0.23
	Body Top	0.16	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
LTE Band 4+ WLAN 2.4G	Body Back	0.84	0.03	0.87
	Body Left	0.11	N/A	N/A
	Body Right	0.09	0.14	0.23
	Body Top	0.24	N/A	N/A
LTE Band 7+ WLAN 2.4G	Body Back	0.28	0.03	0.31
	Body Left	0.1	N/A	N/A
	Body Right	0.1	0.14	0.24
	Body Top	0.38	N/A	N/A
LTE Band 12&17+WLAN 2.4G	Body Back	0.09	0.03	0.12
	Body Left	0.07	N/A	N/A
	Body Right	0.15	0.14	0.29
	Body Top	0.02	N/A	N/A
LTE Band 25+ WLAN 2.4G	Body Back	0.63	0.03	0.66
	Body Left	0.07	N/A	N/A
	Body Right	0.09	0.14	0.23
	Body Top	0.16	N/A	N/A
LTE Band 26&5+ WLAN 2.4G	Body Back	0.1	0.03	0.13
	Body Left	0.05	N/A	N/A
	Body Right	0.13	0.14	0.27
	Body Top	0.02	N/A	N/A
LTE Band 41&38+WLAN 2.4G	Body Back	0.09	0.03	0.12
	Body Left	0.07	N/A	N/A
	Body Right	0.05	0.14	0.19
	Body Top	0.16	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
GSM 850+WLAN 5.2G	Body Back	0.03	0.04	0.07
	Body Left	0.02	N/A	N/A
	Body Right	0.03	0.10	0.13
	Body Top	0.01	N/A	N/A
PCS1900+ WLAN 5.2G	Body Back	0.11	0.04	0.15
	Body Left	0.02	N/A	N/A
	Body Right	0.02	0.10	0.12
	Body Top	0.03	N/A	N/A
CDMA BC0+ WLAN 5.2G	Body Back	0.07	0.04	0.11
	Body Left	0.02	N/A	N/A
	Body Right	0.05	0.10	0.15
	Body Top	0.03	N/A	N/A
CDMA BC1+ WLAN 5.2G	Body Back	0.59	0.04	0.63
	Body Left	0.08	N/A	N/A
	Body Right	0.09	0.10	0.19
	Body Top	0.20	N/A	N/A
WCDMA Band 2+ WLAN 5.2G	Body Back	0.08	0.04	0.12
	Body Left	0.08	N/A	N/A
	Body Right	0.07	0.10	0.17
	Body Top	0.18	N/A	N/A
WCDMA Band 4+ WLAN 5.2G	Body Back	0.08	0.04	0.12
	Body Left	0.11	N/A	N/A
	Body Right	0.09	0.10	0.19
	Body Top	0.04	N/A	N/A
WCDMA Band 5+ WLAN 5.2G	Body Back	0.12	0.04	0.16
	Body Left	0.05	N/A	N/A
	Body Right	0.11	0.10	0.21
	Body Top	0.04	N/A	N/A
LTE Band 2+ WLAN 5.2G	Body Back	0.97	0.04	1.01
	Body Left	0.06	N/A	N/A
	Body Right	0.09	0.10	0.19
	Body Top	0.16	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
LTE Band 4+ WLAN 5.2G	Body Back	0.84	0.04	0.88
	Body Left	0.11	N/A	N/A
	Body Right	0.09	0.10	0.19
	Body Top	0.24	N/A	N/A
LTE Band 7+ WLAN 5.2G	Body Back	0.28	0.04	0.32
	Body Left	0.1	N/A	N/A
	Body Right	0.1	0.10	0.20
	Body Top	0.38	N/A	N/A
LTE Band 12&17+ WLAN 5.2G	Body Back	0.09	0.04	0.13
	Body Left	0.07	N/A	N/A
	Body Right	0.15	0.10	0.25
	Body Top	0.02	N/A	N/A
LTE Band 25+ WLAN 5.2G	Body Back	0.63	0.04	0.67
	Body Left	0.07	N/A	N/A
	Body Right	0.09	0.10	0.19
	Body Top	0.16	N/A	N/A
LTE Band 26&5+ WLAN 5.2G	Body Back	0.1	0.04	0.14
	Body Left	0.05	N/A	N/A
	Body Right	0.13	0.10	0.23
	Body Top	0.02	N/A	N/A
LTE Band 41&38+ WLAN 5.2G	Body Back	0.09	0.04	0.13
	Body Left	0.07	N/A	N/A
	Body Right	0.05	0.10	0.15
	Body Top	0.16	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
GSM 850+WLAN 5.8G	Body Back	0.03	0.08	0.11
	Body Left	0.02	N/A	N/A
	Body Right	0.03	0.15	0.18
	Body Top	0.01	N/A	N/A
PCS1900+ WLAN 5.8G	Body Back	0.11	0.08	0.19
	Body Left	0.02	N/A	N/A
	Body Right	0.02	0.15	0.17
	Body Top	0.03	N/A	N/A
CDMA BC0+ WLAN 5.8G	Body Back	0.07	0.08	0.15
	Body Left	0.02	N/A	N/A
	Body Right	0.05	0.15	0.20
	Body Top	0.03	N/A	N/A
CDMA BC1+ WLAN 5.8G	Body Back	0.59	0.08	0.67
	Body Left	0.08	N/A	N/A
	Body Right	0.09	0.15	0.24
	Body Top	0.20	N/A	N/A
WCDMA Band 2+ WLAN 5.8G	Body Back	0.08	0.08	0.16
	Body Left	0.08	N/A	N/A
	Body Right	0.07	0.15	0.22
	Body Top	0.18	N/A	N/A
WCDMA Band 4+ WLAN 5.8G	Body Back	0.08	0.08	0.16
	Body Left	0.11	N/A	N/A
	Body Right	0.09	0.15	0.24
	Body Top	0.04	N/A	N/A
WCDMA Band 5+ WLAN 5.8G	Body Back	0.12	0.08	0.20
	Body Left	0.05	N/A	N/A
	Body Right	0.11	0.15	0.26
	Body Top	0.04	N/A	N/A
LTE Band 2+ WLAN 5.8G	Body Back	0.97	0.08	1.05
	Body Left	0.06	N/A	N/A
	Body Right	0.09	0.15	0.24
	Body Top	0.16	N/A	N/A

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR< 1.6W/kg
		SAR1	SAR2	
LTE Band 4+ WLAN 5.8G	Body Back	0.84	0.08	0.92
	Body Left	0.11	N/A	N/A
	Body Right	0.09	0.15	0.24
	Body Top	0.24	N/A	N/A
LTE Band 7+ WLAN 5.8G	Body Back	0.28	0.08	0.36
	Body Left	0.1	N/A	N/A
	Body Right	0.1	0.15	0.25
	Body Top	0.38	N/A	N/A
LTE Band 12&17+ WLAN 5.8G	Body Back	0.09	0.08	0.17
	Body Left	0.07	N/A	N/A
	Body Right	0.15	0.15	0.30
	Body Top	0.02	N/A	N/A
LTE Band 25+ WLAN 5.8G	Body Back	0.63	0.08	0.71
	Body Left	0.07	N/A	N/A
	Body Right	0.09	0.15	0.24
	Body Top	0.16	N/A	N/A
LTE Band 26&5+ WLAN 5.8G	Body Back	0.1	0.08	0.18
	Body Left	0.05	N/A	N/A
	Body Right	0.13	0.15	0.28
	Body Top	0.02	N/A	N/A
LTE Band 41&38+ WLAN 5.8G	Body Back	0.09	0.08	0.17
	Body Left	0.07	N/A	N/A
	Body Right	0.05	0.15	0.20
	Body Top	0.16	N/A	N/A

Note:

1. The device does not support hotspot mode and carrier aggregation.

Conclusion:

Sum of SAR: **ΣSAR ≤ 1.6 W/kg** for 1g SAR, therefore simultaneous transmission SAR with Volume Scans is **not required**.

SAR Plots

Please Refer to the Attachment.

APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Linearity	4.7	R	√3	1	1	2.7	2.7
Detection limits	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
Test sample related							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	√3	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.3	23.9

Measurement uncertainty evaluation for IEC62209-2 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Linearity	4.7	R	√3	1	1	2.7	2.7
Modulation Response	0.0	R	√3	1	1	0.0	0.0
Detection limits	1.0	R	√3	1	1	0.6	0.6
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
Test sample related							
Device holder Uncertainty	6.3	N	1	1	1	6.3	6.3
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Power scaling	4.5	R	√3	1	1	2.6	2.6
Drift of output power	5.0	R	√3	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.1	0.9
Liquid conductivity (meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity (meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Temp. unc. - Conductivity	1.7	R	√3	0.78	0.71	0.8	0.7
Temp. unc. - Permittivity	0.3	R	√3	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				12.2	12.1
Expanded uncertainty 95 % confidence interval)						24.5	24.2

APPENDIX B EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

APPENDIX C CALIBRATION CERTIFICATES

Please Refer to the Attachment.

******* END OF REPORT *******