TEST REPORT

Applicant Name :	Shenzhen VTU Systems Co., Ltd.
Address :	6/F, Building A, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Nanshan District, Shenzhen 518055, P.R. China
Report Number :	2401S24086-SA
FCC ID:	2AY3C-VT988

Test Standard (s)
FCC Part 2.1093

Sample Description

Product Type:	4G Body Worn Camera
Model No.:	VT988
Multiple Models:	VT980, VT990, iTALK-BC8
Trade Mark:	VtuRola
Date Received:	2024/04/30
Date of Test:	2024/05/07-2024/06/13
Issue Date:	2024/06/26

Test Result:	Pass▲

▲In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Sid Luo

Sid Luo
SAR Engineer

Approved By:

Luke Jiang

Luke Jiang
SAR Engineer

Note: The information marked# is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "▼".

Attestation of Test Results			
MODE		**Max. SAR Level(s) Reported(W/kg)**	**Limit (W/kg)**
LTE Band 7	1g Head SAR	0.24	
	1g Body SAR	0.26	**1.6**
LTE Band 12&17	1g Head SAR	0.12	
	1g Body SAR	0.11	
LTE Band 13	1g Head SAR	0.21	
	1g Body SAR	0.23	
LTE Band 14	1g Head SAR	0.24	
	1g Body SAR	0.38	
LTE Band 25&2	1g Head SAR	0.12	
	1g Body SAR	0.19	
LTE Band 26&5	1g Head SAR	**0.27**	
	1g Body SAR	**0.40**	
LTE Band 66&4	1g Head SAR	0.07	
	1g Body SAR	0.24	
LTE Band 71	1g Head SAR	0.12	
	1g Body SAR	0.13	
2.4G Wi-Fi	1g Head SAR	0.07	
	1g Body SAR	0.16	
5.2G Wi-Fi	1g Head SAR	**0.11**	
	1g Body SAR	**0.28**	
5.8G Wi-Fi	1g Head SAR	0.02	
	1g Body SAR	0.08	
Simultaneous	1g Head SAR	**0.42**	
	1g Body SAR	**0.68**	
	1g Body SAR(Hotspot)	**0.68**	
Applicable Standards	**FCC 47 CFR part 2.1093** Radiofrequency radiation exposure evaluation: portable devices		
	RF Exposure Procedures: TCB Workshop April 2015 (Overlapping LTE Bands)		
	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		
	KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 941225 D05 SAR for LTE Devices v02r05 KDB 941225 D06 Hotspot Mode v02r01 KDB 248227 D01 802 11 Wi-Fi SAR v02r02		
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.**			

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401S24086-SA	Original Report	2024/06/26

EUT DESCRIPTION

This report has been prepared on behalf of ***Shenzhen VTU Systems Co., Ltd.*** and their product ***4G Body Worn Camera***, Model: **VT988**, SN: ***2KH8-1***, FCC: **2AY3C-VT988** or the EUT (Equipment under Test) as referred to in the rest of this report.

Technical Specification

Device Type:	Portable
Device Size:	104mm x 62mm x 25mm
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Power Sensor	None
Body-Worn Accessories:	None
Face-Head Accessories:	None
Operation Mode:	FDD-LTE, Wi-Fi and Bluetooth
Frequency Band:	LTE Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) LTE Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX) LTE Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(RX) LTE Band 12: 699-716MHz(TX); 729-746MHz(RX) LTE Band 13: 777-787MHz(TX); 746-756MHz(RX) LTE Band 14: 788-798MHz(TX); 758-768MHz(RX) LTE Band 17: 704-716MHz(TX); 734-746MHz(RX) LTE Band 25: 1850-1915MHz(TX);1930-1995MHz(RX) LTE Band 26(Part 22): 824-849MHz(TX); 869-894MHz(RX) LTE Band 26(Part 90): 814-824MHz(TX); 859-869MHz(RX) LTE Band 66: 1710-1780MHz(TX); 2110-2180MHz(RX) LTE Band 71: 663-698 MHz(TX); 617-652MHz(RX) Wi-Fi 2.4G: 2412 -2472 MHz(TX&RX) Wi-Fi 5.2G:5180-5240MHz(TX&RX) Wi-Fi 5.8G:5745-5825MHz(TX&RX) Bluetooth: 2402 -2480 MHz(TX&RX) BLE: 2402 -2480 MHz(TX&RX)
Power Source:	$3.8V_{DC}$ Rechargeable Battery
Normal Operation:	Body, Body-worn
Note: The Multiple models are electrically identical with the test model except for model number and sales channel. Please refer to the declaration letter# for more detail, which was provided by manufacturer.	

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.

SAR Limits

FCC Limit(1g Tissue)

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

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 applied to the EUT.

FACILITIES

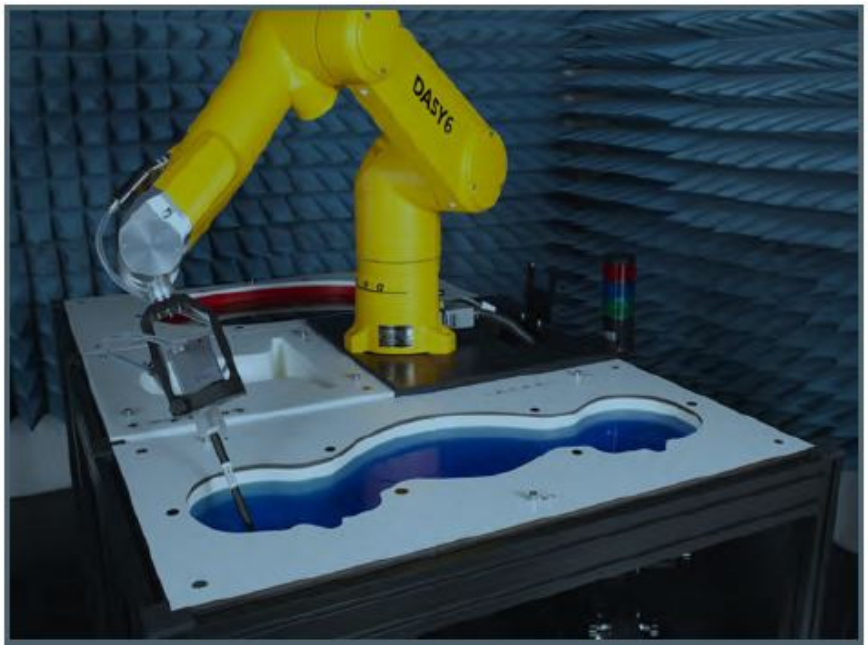
The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect data is located at 5F(B-West) ,6F,7F,the 3rd Phase of Wan Li Industrial Building D,Shihua Rd, FuTian Free Trade Zone, Shenzhen, China

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.: 715558, the FCC Designation No.: CN5045.

Each test item follows test standards and with no deviation.

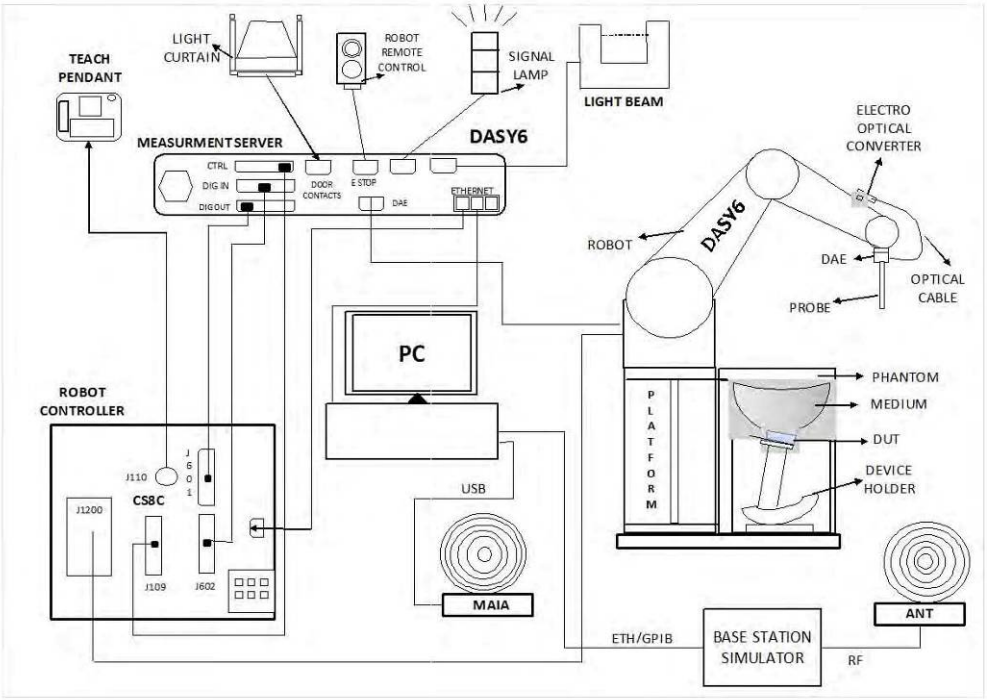
DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY6 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY6 System Description

The DASY6 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot (Staubli TX=RX family) 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.

DASY6 Measurement Server

The DASY6 measurement server is based on a PC/104 CPU board with a 400 MHz Intel ULV Celeron, 128 MB chip-disk and 128 MB 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 DASY6 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluations of field measurements and surface detection, controls robot movements, and handles safety operations. 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 pinout, and therefore only devices provided by SPEAG can be connected. Connection of 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.

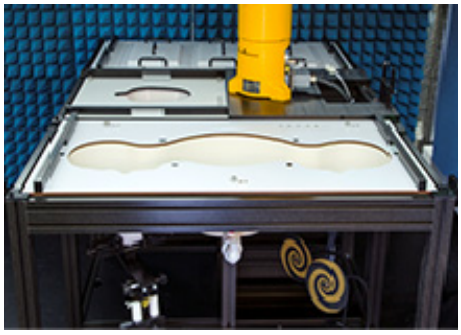
The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

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	4 MHz to >10 GHz Linearity: ± 0.2 dB (30 MHz to 10 GHz)
Directivity	± 0.1 dB in TSL (rotation around probe axis) ± 0.3 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, EASY6, EASY4/MRI

SAM Twin Phantom



The SAM Twin Phantom (shown in front of DASY6) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm. The phantom has three measurement areas: 1) Left Head, 2) Right Head, and 3) Flat Section. For larger devices, the use of the ELI-Phantom (shown behind DASY6) is required. For devices such as glasses with a wireless link, the Face Down Phantom is the most suitable (between the SAM Twin and ELI phantoms).

When the phantom is mounted inside allocated slot of the DASY6 platform, phantom reference points can be taught directly in the DASY5 V5.2software. When the DASY6 platform is used to mount the

Phantom, some of the phantom teaching points cannot be reached by the robot in DASY5 V5.2. A special tool called P1a-P2aX-Former is provided to transform two of the three points, P1 and P2, to reachable locations. To use these new teaching points, a revised phantom configuration file is required.

In addition to our standard broadband liquids, the phantom can be used with the following tissue simulating liquids:

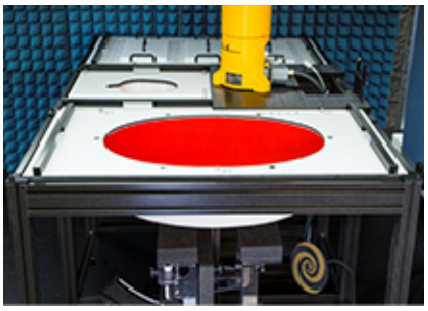
Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.

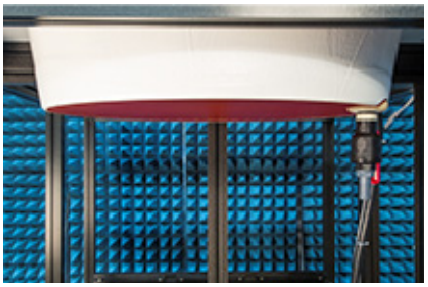
DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).

Do not use other organic solvents without previously testing the solvent resistivity of the phantom.

Approximately 25 liters of liquid is required to fill the SAM Twin phantom.

ELI Phantom





The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI is fully compatible with the latest draft of the standard IEC 62209-2 and the use of all known tissue simulating liquids. ELI has been optimized for performance and can be integrated into a SPEAG standard phantom table. A cover is provided to prevent evaporation of water and changes in liquid parameters. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.

The phantom can be used with the following tissue simulating liquids:

- Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.
- DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the solvent resistivity of the phantom.

Approximately 25 liters of liquid is required to _fill the ELI phantom.

Robots

The DASY6 system uses the high-precision industrial robots TX60L, TX90XL, and RX160L from Staubli SA (France). The TX robot family – the successor of the well-known RX robot family – continues to offer the features important for DASY6 applications:

- 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 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 provided

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7382 Calibrated: 2023/09/27

Calibration Frequency Point(MHz)	Frequency Range(MHz)		Conversion Factor		
	From	To	X	Y	Z
750 Head	650	850	10.65	10.65	10.65
900 Head	850	1000	10.19	10.19	10.19
1750 Head	1650	1850	8.60	8.60	8.60
1900 Head	1850	2000	8.30	8.30	8.30
2300 Head	2200	2400	8.16	8.16	8.16
2450 Head	2400	2550	7.89	7.89	7.89
2600 Head	2550	2700	7.65	7.65	7.65
3300 Head	3200	3400	7.39	7.39	7.39
3500 Head	3400	3600	7.24	7.24	7.24
3700 Head	3600	3800	7.10	7.10	7.10
3900 Head	3800	4000	6.98	6.98	6.98
5250 Head	5140	5360	5.62	5.62	5.62
5500 Head	5390	5610	5.10	5.10	5.10
5750 Head	5640	5860	5.08	5.08	5.08

Area scan parameters

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm ± 1 mm	$½ \cdot \delta \cdot \ln(2)$ mm ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Zoom scan parameters

Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ $1.5 \cdot \Delta z_{Zoom}(n-1)$ mm	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Tissue Dielectric Parameters for Head

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 5mm,with the side length of the 10g cube is 21.5mm.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

<table>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$ mm</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.
* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the KDB 865664 D01

Recommended Tissue Dielectric Parameters for Head 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*

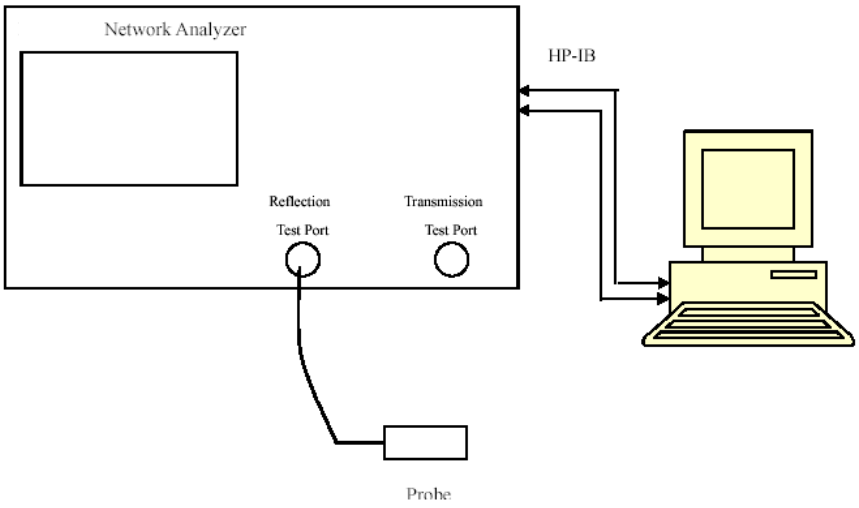
EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.2	N/A	NCR	NCR
DASY6 Measurement Server	DASY6 6.0.31	N/A	NCR	NCR
Data Acquisition Electronics	DAE4	1325	2023/9/27	2024/9/26
E-Field Probe	EX3DV4	7382	2023/9/27	2024/9/26
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Dipole, 750 MHz	D750V3	1229	2023/3/24	2026/3/23
Dipole, 1750 MHz	D1750V2	1199	2023/3/27	2026/3/26
Dipole, 1900 MHz	D1900V2	5d231	2023/2/17	2026/2/16
Dipole, 2450 MHz	D2450V2	1103	2023/3/27	2026/3/26
Dipole,2600 MHz	D2600V2	1207	2023/3/27	2026/3/26
Dipole,5GHz	D5GHzV2	1374	2023/3/27	2026/3/26
Simulated Tissue Liquid Head	HBBL600-10000V6	180622-2	Each Time	/
Network Analyzer	E5071C	SER MY46519680	2023/06/08	2024/06/07
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Dielectric Assessment Kit	DAK-3.5	1248	NCR	NCR
MXG Analog Signal Generator	N5181A	MY48180408	2024/01/16	2025/01/15
USB wideband power sensor	U2021XA	MY52350001	2023/06/08	2024/06/07
USB wideband power sensor	U2021XA	MY52350001	2024/05/21	2025/05/20
Directional Coupler	855673	3307	NCR	NCR
20dB Attenuator	2	BH9879	NCR	NCR
RF Power Amplifier	5205FE	1014	NCR	NCR
Thermometer	DTM3000	N/A	2024/01/16	2025/01/15
Temperature & Humidity Meter	10316377	N/A	2024/01/17	2025/01/16
Wideband Radio Communication Tester	CMW500	1201.0002K50-141718-Qr	2023/09/06	2024/09/05
Spectrum Analyzer	FSV40	101942	2023/12/18	2024/12/17

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)	
673	Simulated Tissue Liquid Head	43.516	0.865	42.34	0.89	2.78	-2.81	±5
683	Simulated Tissue Liquid Head	43.628	0.86	42.29	0.89	3.16	-3.37	±5
688	Simulated Tissue Liquid Head	43.443	0.866	42.26	0.89	2.8	-2.7	±5
704	Simulated Tissue Liquid Head	43.495	0.869	42.18	0.89	3.12	-2.36	±5
707.5	Simulated Tissue Liquid Head	43.53	0.865	42.16	0.89	3.25	-2.81	±5
711	Simulated Tissue Liquid Head	43.565	0.869	42.14	0.89	3.38	-2.36	±5
750	Simulated Tissue Liquid Head	43.402	0.867	41.50	0.89	4.58	-2.58	±5
782	Simulated Tissue Liquid Head	43.443	0.866	41.50	0.90	4.68	-3.78	±5
793	Simulated Tissue Liquid Head	43.495	0.869	41.50	0.90	4.81	-3.44	±5
821.5	Simulated Tissue Liquid Head	43.53	0.865	41.50	0.90	4.89	-3.89	±5
831.5	Simulated Tissue Liquid Head	43.565	0.869	41.50	0.90	4.98	-3.44	±5
841.5	Simulated Tissue Liquid Head	43.402	0.867	41.50	0.90	4.58	-3.67	±5

**Liquid Verification above was performed on 2024/06/13.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$	
1720	Simulated Tissue Liquid Head	41.079	1.312	40.13	1.35	2.36	-2.81	±5
1745	Simulated Tissue Liquid Head	38.671	1.355	40.1	1.37	-3.56	-1.09	±5
1750	Simulated Tissue Liquid Head	40.829	1.335	40.1	1.37	1.82	-2.55	±5
1770	Simulated Tissue Liquid Head	40.572	1.381	40.06	1.38	1.28	0.07	±5

**Liquid Verification above was performed on 2024/05/07.*

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 Liquid Head	41.476	1.451	40.00	1.40	3.69	3.64	±5
1882.5	Simulated Tissue Liquid Head	41.379	1.459	40.00	1.40	3.45	4.21	±5
1900	Simulated Tissue Liquid Head	41.498	1.465	40.00	1.40	3.74	4.64	±5
1905	Simulated Tissue Liquid Head	41.339	1.448	40.00	1.40	3.35	3.43	±5

**Liquid Verification above was performed on 2024/05/08.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$	
2412	Simulated Tissue Liquid Head	40.708	1.801	39.26	1.78	3.69	1.18	±5
2442	Simulated Tissue Liquid Head	40.484	1.831	39.22	1.79	3.22	2.29	±5
2450	Simulated Tissue Liquid Head	40.159	1.839	39.20	1.80	2.45	2.17	±5
2472	Simulated Tissue Liquid Head	39.692	1.841	39.18	1.81	1.31	1.71	±5
2510	Simulated Tissue Liquid Head	39.443	1.85	39.12	1.87	0.83	-1.07	±5
2535	Simulated Tissue Liquid Head	40.112	1.885	39.09	1.89	2.61	-0.26	±5
2560	Simulated Tissue Liquid Head	40.333	1.928	39.06	1.92	3.26	0.42	±5
2600	Simulated Tissue Liquid Head	40.629	1.997	39.00	1.96	4.18	1.89	±5

**Liquid Verification above was performed on 2024/05/11.*

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ε_r	σ (S/m)	ε_r	σ (S/m)	$\Delta\varepsilon_r$	$\Delta\sigma$	
5180	Simulated Tissue Liquid Head	37.529	4.786	36.02	4.65	4.19	2.92	±5
5200	Simulated Tissue Liquid Head	37.361	4.794	36.00	4.66	3.78	2.88	±5
5240	Simulated Tissue Liquid Head	37.399	4.81	35.96	4.70	4	2.34	±5
5250	Simulated Tissue Liquid Head	36.08	4.876	35.95	4.71	0.36	3.52	±5
5755	Simulated Tissue Liquid Head	35.658	5.188	35.35	5.22	0.87	-0.61	±5
5795	Simulated Tissue Liquid Head	36.164	5.271	35.31	5.26	2.42	0.21	±5
5800	Simulated Tissue Liquid Head	36.047	5.268	35.30	5.27	2.12	-0.04	±5

**Liquid Verification above was performed on 2024/05/12.*

System Accuracy Verification

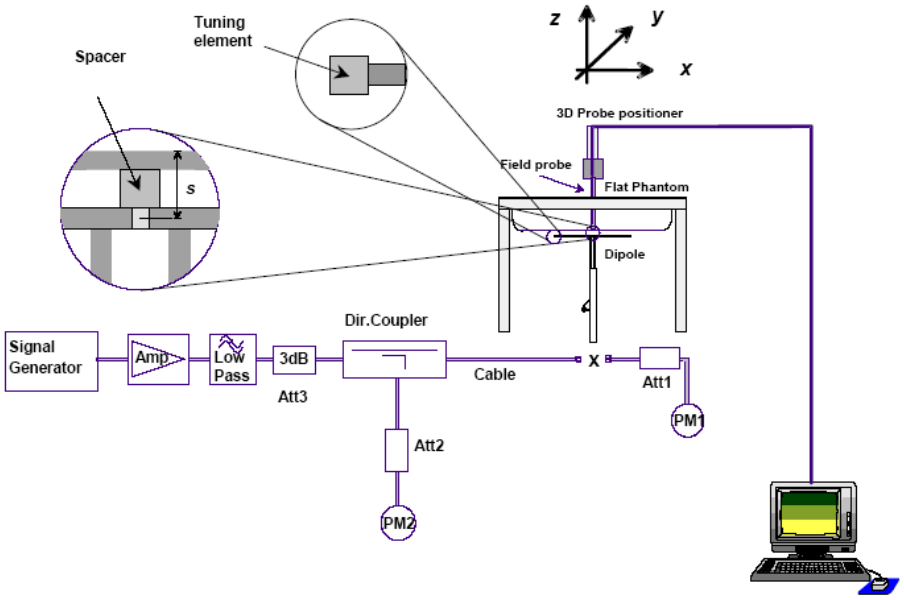
Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of ±10%. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The spacing distance*s* 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 ≤ 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 (%)
2024/06/13	750 MHz	Head	100	1g	0.859	8.59	8.41	2.140	±10
2024/05/07	1750 MHz	Head	100	1g	3.79	37.9	36.0	5.278	±10
2024/05/08	1900 MHz	Head	100	1g	4.12	41.2	39.9	3.258	±10
2024/05/11	2450 MHz	Head	100	1g	5.45	54.5	51.7	5.416	±10
2024/05/11	2600 MHz	Head	100	1g	5.73	57.3	55.2	3.804	±10
2024/05/12	5250 MHz	Head	100	1g	7.86	78.6	80.1	-1.873	±10
2024/05/12	5800 MHz	Head	100	1g	7.94	79.4	81.4	-2.457	±10

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

SAR SYSTEM VALIDATION DATA

System Performance 750 MHz

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1229

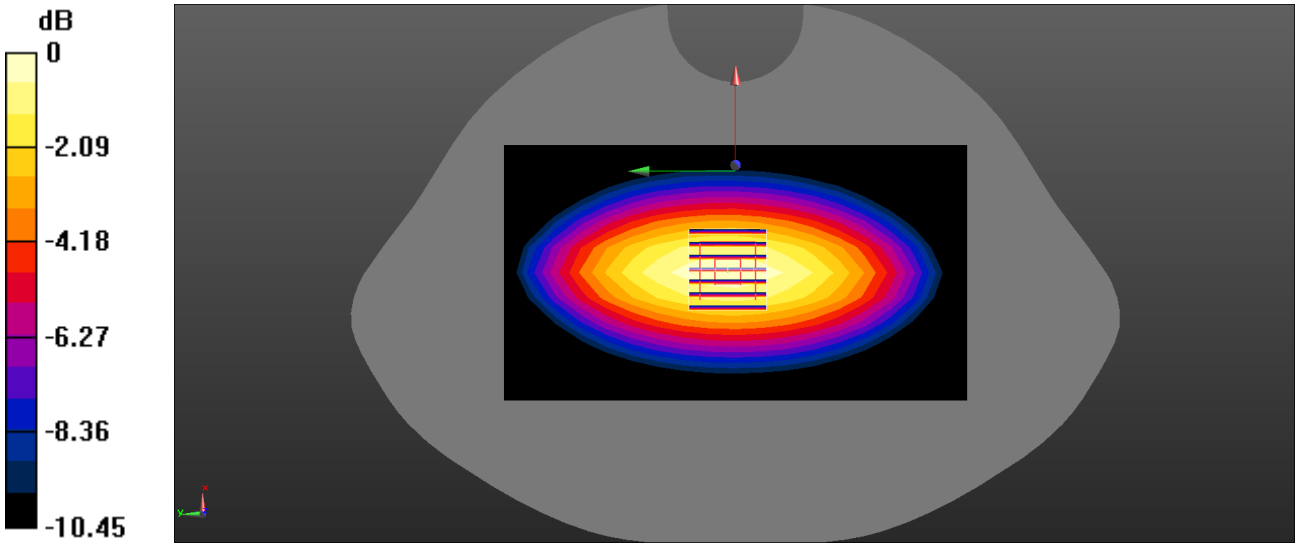
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.867 S/m; ε_r = 43.402; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7382; ConvF(10.65, 10.65, 10.65) @ 750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 750MHz Pin=100mW/Area Scan (11x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.877 W/kg

Configuration/Head 750MHz Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.73 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.539 W/kg
Maximum value of SAR (measured) = 0.887 W/kg



0 dB = 0.887 W/kg = -0.52 dBW/kg

System Performance 1750MHz

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1199

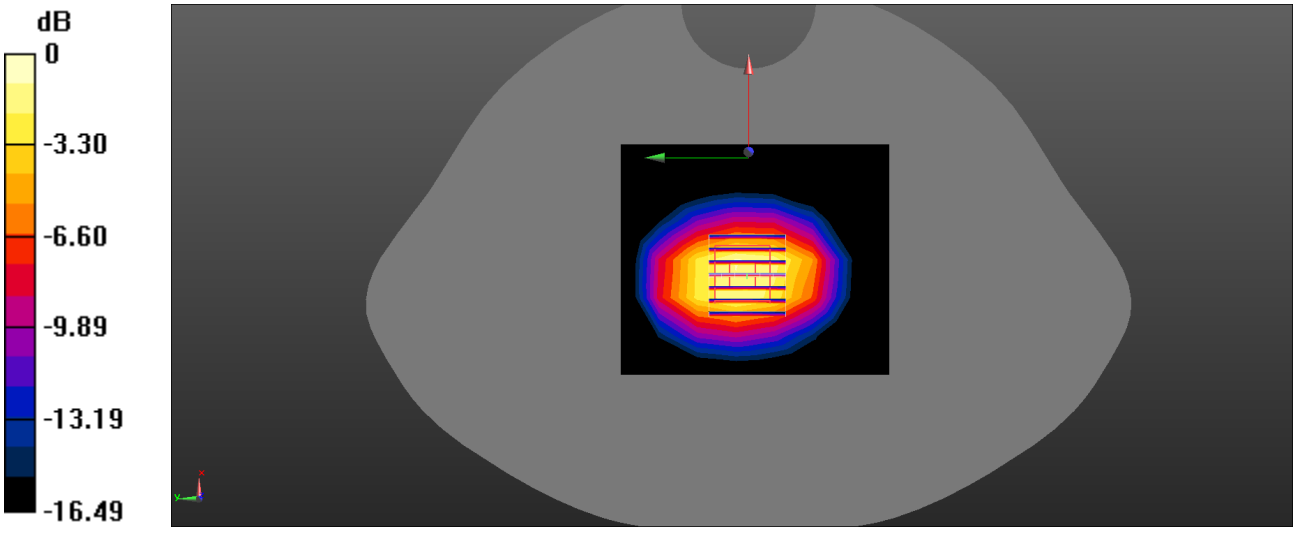
Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.335 S/m; ε_r = 40.829; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7382; ConvF(8.6, 8.6, 8.6) @ 1750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 1750MHz Pin=100mW/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.28 W/kg

Configuration/Head 1750MHz Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 51.66 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 6.82 W/kg
SAR(1 g) = 3.79 W/kg; SAR(10 g) = 2 W/kg
Maximum value of SAR (measured) = 4.11 W/kg



0 dB = 4.11 W/kg = 6.14 dBW/kg

System Performance 1900MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d231

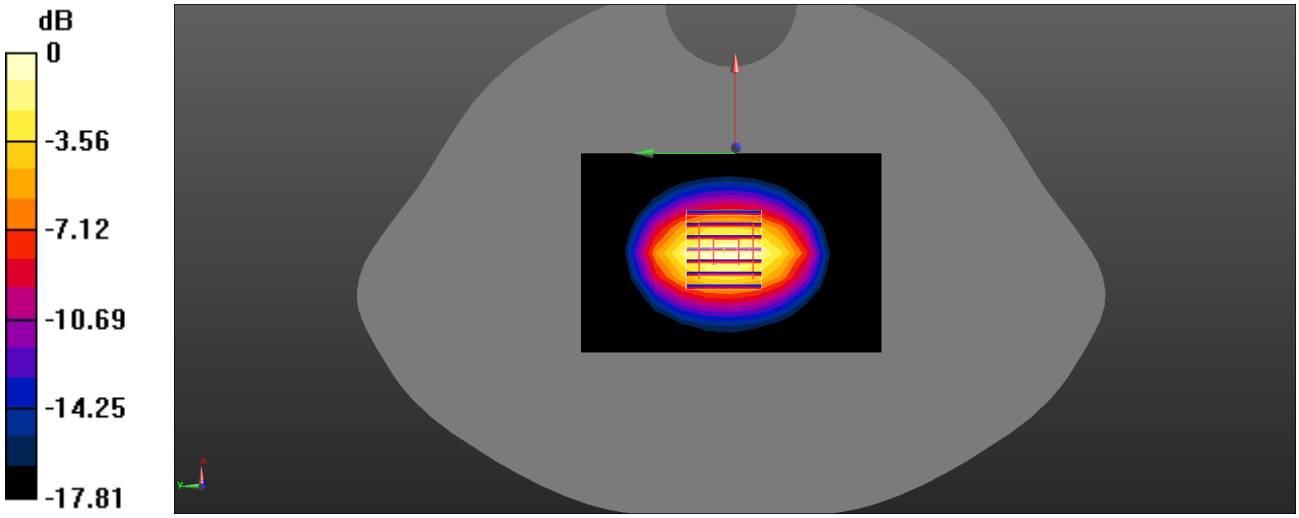
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.465 S/m; ε_r = 41.498; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7382; ConvF(8.3, 8.3, 8.3) @ 1900 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 1900MHz Pin=100mW/Area Scan (9x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 6.99 W/kg

Configuration/Head 1900MHz Pin=100mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 59.45 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 8.23 W/kg
SAR(1 g) = 4.12 W/kg; SAR(10 g) = 2.25 W/kg
Maximum value of SAR (measured) = 6.84 W/kg



0 dB = 6.84 W/kg = 8.35 dBW/kg

System Performance 2450MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 1103

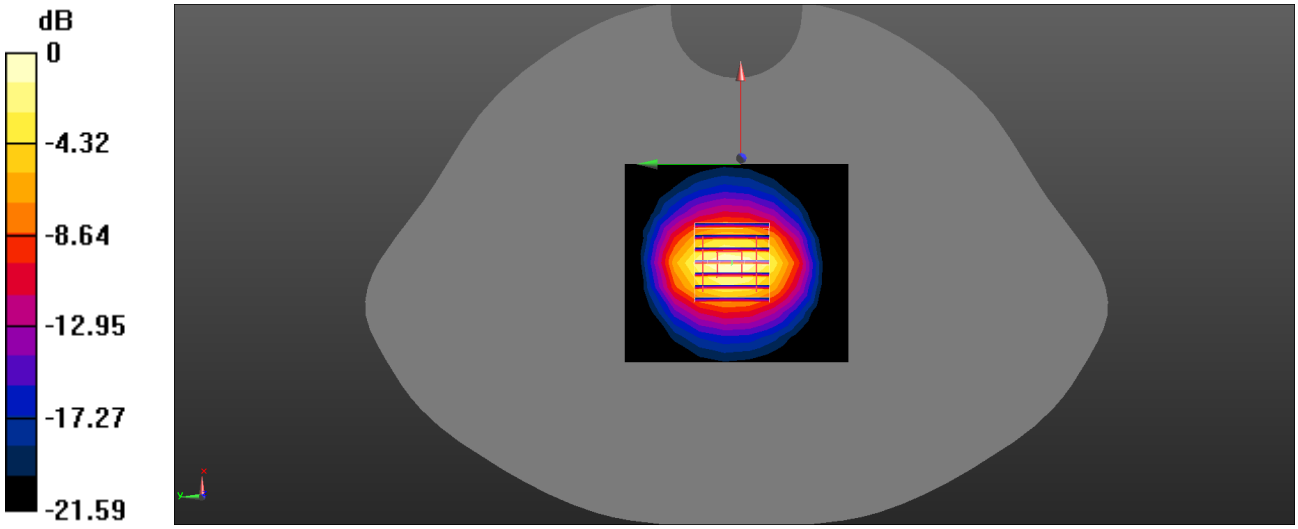
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.839 S/m; ε_r = 40.159; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7382; ConvF(7.89, 7.89, 7.89) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 2450MHz Pin=100mW/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.03 W/kg

Configuration/Head 2450MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 60.86 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 11.0 W/kg
SAR(1 g) = 5.45 W/kg; SAR(10 g) = 2.53 W/kg
Maximum value of SAR (measured) = 8.98 W/kg



0 dB = 8.98 W/kg = 9.53 dBW/kg

System Performance 2600MHz

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1207

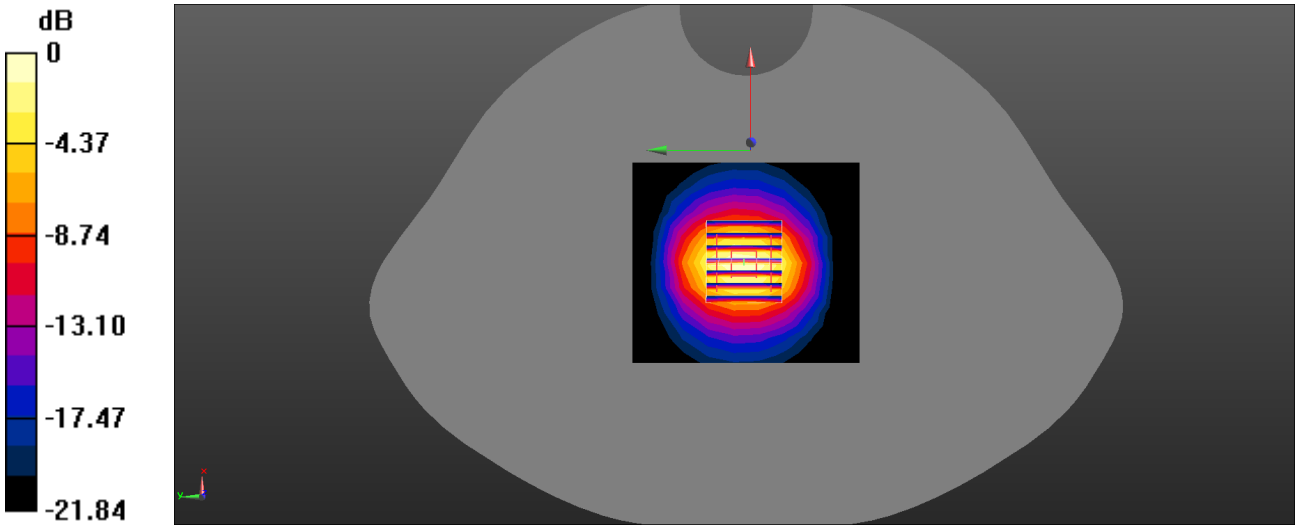
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.997 S/m; ε_r = 40.629; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7382; ConvF(7.65, 7.65, 7.65) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 2600MHz Pin=100mW/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.28 W/kg

Configuration/Head 2600MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 58.47 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 10.2 W/kg
SAR(1 g) = 5.73 W/kg; SAR(10 g) = 2.38 W/kg
Maximum value of SAR (measured) = 8.46 W/kg



0 dB = 8.46 W/kg = 9.27 dBW/kg

System Performance 5250 MHz

DUT: Dipole D5GHz; Type: D5GHzV2; Serial: 1374

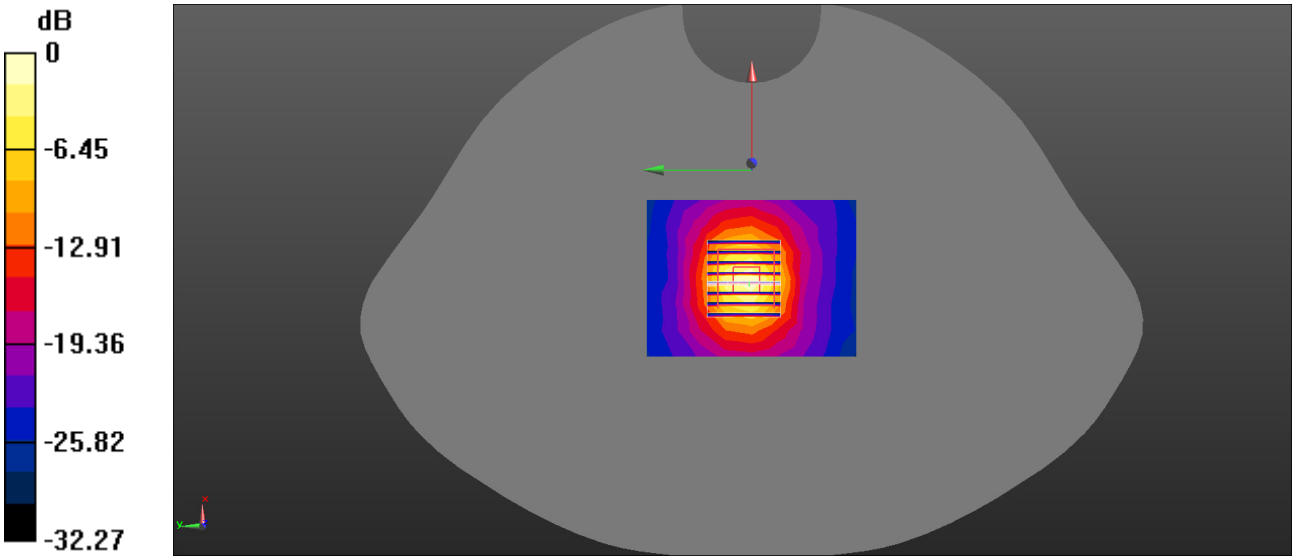
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.876 S/m; ε_r = 36.08; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7382; ConvF(5.62, 5.62, 5.62) @ 5250 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 5250MHz Pin=100mW/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 15.2 W/kg

Configuration/Head 5250MHz Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 43.71 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 29.5 W/kg
SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.28 W/kg
Maximum value of SAR (measured) = 15.2 W/kg



0 dB = 15.2 W/kg = 11.82 dBW/kg

System Performance 5800 MHz

DUT: Dipole D5GHz; Type: D5GHzV2; Serial: 1374

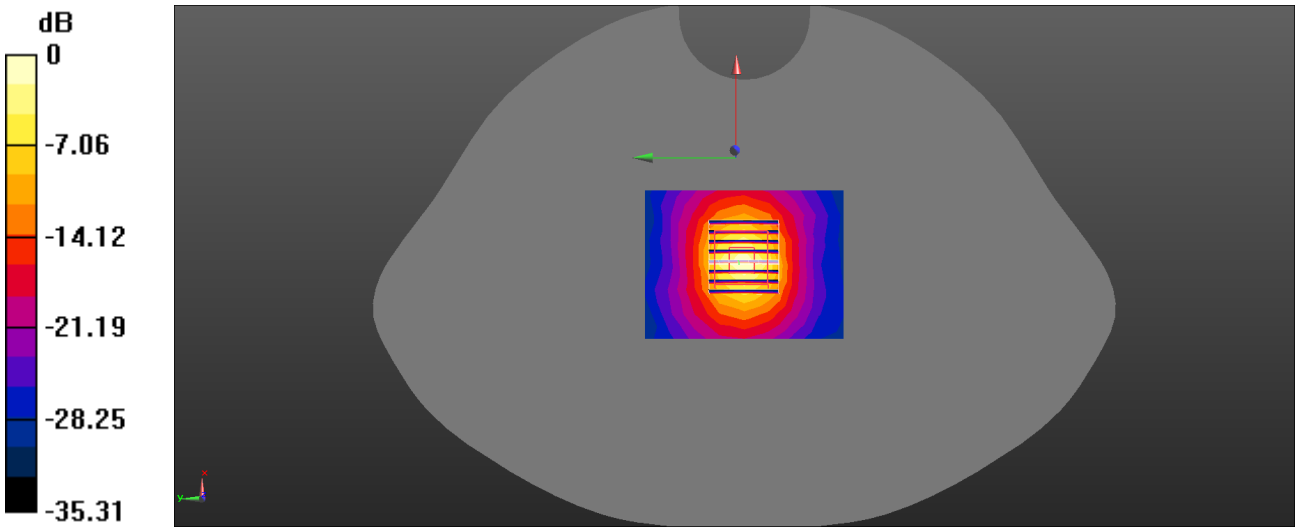
Communication System: UID 0, CW (0); Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.268 S/m; ε_r = 36.047; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7382; ConvF(5.08, 5.08, 5.08) @ 5800 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA ; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 5800MHz Pin=100mW/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 21.4 W/kg

Configuration/Head 5800MHz Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 42.44 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 35.2 W/kg
SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.43 W/kg
Maximum value of SAR (measured) = 21.1 W/kg



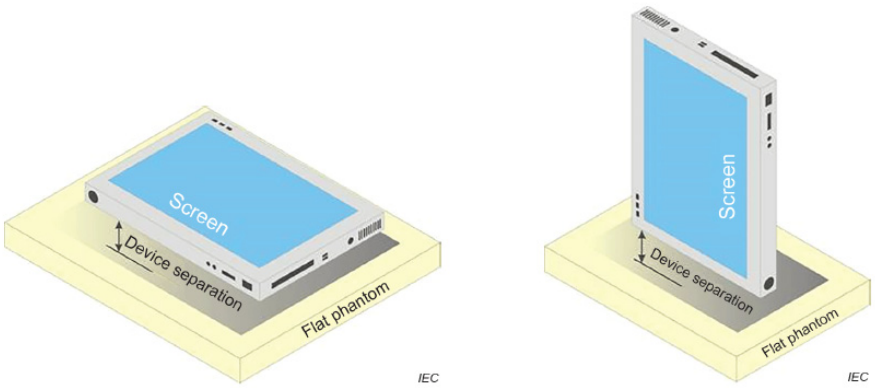
0 dB = 21.1 W/kg = 13.24 dBW/kg

EUT TEST STRATEGY AND METHODOLOGY

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.



a) Tablet form factor portable computer

Test Distance for SAR Evaluation

For this case the EUT(Equipment Under Test) is set 10mm away from the phantom, the test distance is 10mm.

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.

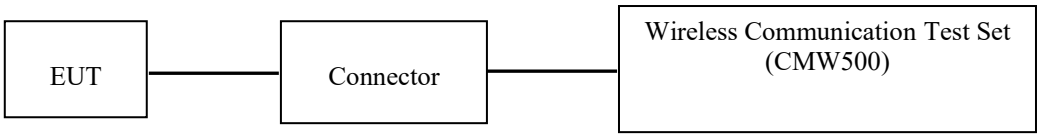
2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the “Not a knot”-condition (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.

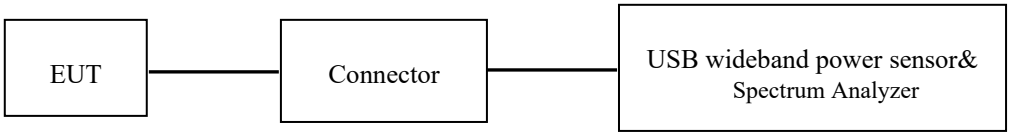
Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

CONDUCTED OUTPUT POWER MEASUREMENT

Test Procedure



LTE



WLAN/ Bluetooth

Radio Configuration

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

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	-	-	-	-	-

Maximum Target Output Power

Max Target Power(dBm)				
Mode/Band	Model	Channel		
		Low	Middle	High
LTE Band 2	QPSK	25.0	25.0	25.0
LTE Band 4	QPSK	24.0	24.0	24.0
LTE Band 5	QPSK	25.0	25.0	25.0
LTE Band 7	QPSK	25.0	25.0	25.0
LTE Band 12	QPSK	25.0	25.0	25.0
LTE Band 13	QPSK	25.0	25.0	25.0
LTE Band 14	QPSK	25.0	25.0	25.0
LTE Band 17	QPSK	25.0	25.0	25.0
LTE Band 25	QPSK	25.0	25.0	25.0
LTE Band 26	QPSK	25.0	25.0	25.0
LTE Band 66	QPSK	24.0	24.0	24.0
LTE Band 71	QPSK	24.0	24.0	24.0
LTE Band 2	16-QAM	23.5	23.5	23.5
LTE Band 4	16-QAM	23.5	23.5	23.5
LTE Band 5	16-QAM	23.5	23.5	23.5
LTE Band 7	16-QAM	23.5	23.5	23.5
LTE Band 12	16-QAM	23.5	23.5	23.5
LTE Band 13	16-QAM	23.5	23.5	23.5
LTE Band 14	16-QAM	24.0	24.0	24.0
LTE Band 17	16-QAM	23.5	23.5	23.5
LTE Band 25	16-QAM	23.5	23.5	23.5
LTE Band 26	16-QAM	23.0	23.0	23.0
LTE Band 66	16-QAM	23.0	23.0	23.0
LTE Band 71	16-QAM	23.5	23.5	23.5
WLAN 2.4G	802.11b	18.5	18.5	18.5
WLAN 2.4G	802.11g	13.0	13.0	13.0
WLAN 2.4G	802.11n20	13.5	13.5	13.5
WLAN 2.4G	802.11n40	18.5	18.5	18.5
WLAN 5.2G	802.11a	10.0	10.0	10.0
WLAN 5.2G	802.11ac20	7.0	7.0	7.0
WLAN 5.2G	802.11n20	7.0	7.0	7.0
WLAN 5.2G	802.11ac40	7.5	7.5	7.5
WLAN 5.2G	802.11n40	7.5	7.5	7.5
WLAN 5.2G	802.11ac80	6.5	6.5	6.5
WLAN 5.8G	802.11a	8.0	8.0	8.0
WLAN 5.8G	802.11ac20	8.0	8.0	8.0
WLAN 5.8G	802.11n20	8.0	8.0	8.0
WLAN 5.8G	802.11ac40	8.5	8.5	8.5
WLAN 5.8G	802.11n40	8.5	8.5	8.5
WLAN 5.8G	802.11ac80	8.0	8.0	8.0
Bluetooth	BDR/EDR	7.0	8.5	8.5
BLE	BLE	-1.0	-1.0	-1.0

Test Results:

LTE Band 2:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	23.58	23.63	23.84
		RB1#3	0	0	23.70	23.36	23.75
		RB1#5	0	0	23.49	23.41	23.62
		RB3#0	1	1	23.57	23.62	23.83
		RB3#3	1	1	23.69	23.35	23.74
		RB6#0	1	1	23.48	23.40	23.61
	16-QAM	RB1#0	1	1	21.96	21.89	22.14
		RB1#3	1	1	21.94	21.83	22.15
		RB1#5	1	1	22.01	21.87	22.14
		RB3#0	2	2	21.94	21.87	22.12
		RB3#3	2	2	21.92	21.81	22.13
		RB6#0	2	2	21.99	21.85	22.12
3M	QPSK	RB1#0	0	0	23.61	23.66	23.87
		RB1#8	0	0	23.73	23.39	23.78
		RB1#14	0	0	23.52	23.44	23.65
		RB6#0	1	1	23.53	23.46	23.70
		RB6#9	1	1	23.43	23.43	23.64
		RB15#0	1	1	23.40	23.29	23.53
	16-QAM	RB1#0	1	1	21.99	21.92	22.17
		RB1#8	1	1	21.97	21.86	22.18
		RB1#14	1	1	22.04	21.90	22.17
		RB6#0	2	2	21.87	21.80	22.11
		RB6#9	2	2	21.86	21.82	22.05
		RB15#0	2	2	21.88	21.73	22.04
5M	QPSK	RB1#0	0	0	23.64	23.69	23.90
		RB1#13	0	0	23.76	23.42	23.81
		RB1#24	0	0	23.55	23.47	23.68
		RB15#0	1	1	23.56	23.49	23.73
		RB15#10	1	1	23.46	23.46	23.67
		RB25#0	1	1	23.43	23.32	23.56
	16-QAM	RB1#0	1	1	22.02	21.95	22.20
		RB1#13	1	1	22.00	21.89	22.21
		RB1#24	1	1	22.07	21.93	22.20
		RB15#0	2	2	21.90	21.83	22.14
		RB15#10	2	2	21.89	21.85	22.08
		RB25#0	2	2	21.91	21.76	22.07
10M	QPSK	RB1#0	0	0	23.66	23.71	23.92
		RB1#25	0	0	23.78	23.44	23.83
		RB1#49	0	0	23.57	23.49	23.70
		RB25#0	1	1	23.58	23.51	23.75
		RB25#25	1	1	23.48	23.48	23.69
		RB50#0	1	1	23.45	23.34	23.58
	16-QAM	RB1#0	1	1	22.04	21.97	22.22

		RB1#25	1	1	22.02	21.91	22.23
		RB1#49	1	1	22.09	21.95	22.22
		RB25#0	2	2	21.92	21.85	22.16
		RB25#25	2	2	21.91	21.87	22.10
		RB50#0	2	2	21.93	21.78	22.09
15M	QPSK	RB1#0	0	0	23.69	23.74	23.95
		RB1#38	0	0	23.81	23.47	23.86
		RB1#74	0	0	23.60	23.52	23.73
		RB36#0	1	1	23.61	23.54	23.78
		RB36#39	1	1	23.51	23.51	23.72
		RB75#0	1	1	23.48	23.37	23.61
	16-QAM	RB1#0	1	1	22.07	22.00	22.25
		RB1#38	1	1	22.05	21.94	22.26
		RB1#74	1	1	22.12	21.98	22.25
		RB36#0	2	2	21.95	21.88	22.19
		RB36#39	2	2	21.94	21.90	22.13
		RB75#0	2	2	21.96	21.81	22.12
20M	QPSK	RB1#0	0	0	23.89	23.78	**24.02**
		RB1#50	0	0	23.84	23.69	23.95
		RB1#99	0	0	23.79	23.60	23.87
		RB50#0	1	1	23.73	23.57	23.83
		RB50#50	1	1	23.67	23.54	23.78
		RB100#0	1	1	23.58	23.47	23.75
	16-QAM	RB1#0	1	1	22.22	22.11	22.39
		RB1#50	1	1	22.19	22.08	22.36
		RB1#99	1	1	22.18	22.07	22.35
		RB50#0	2	2	22.10	21.99	22.27
		RB50#50	2	2	22.09	21.98	22.26
		RB100#0	2	2	22.04	21.93	22.21

LTE Band 4:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	22.75	22.85	22.97
		RB1#3	0	0	22.67	22.72	23.03
		RB1#5	0	0	22.60	22.69	23.00
		RB3#0	1	1	22.73	22.83	22.95
		RB3#3	1	1	22.65	22.70	23.01
		RB6#0	1	1	22.58	22.67	22.98
	16-QAM	RB1#0	1	1	20.92	21.05	21.29
		RB1#3	1	1	20.91	21.02	21.27
		RB1#5	1	1	20.82	21.04	21.24
		RB3#0	2	2	20.91	21.04	21.28
		RB3#3	2	2	20.90	21.01	21.26
		RB6#0	2	2	20.81	21.03	21.23
3M	QPSK	RB1#0	0	0	22.76	22.86	22.98
		RB1#8	0	0	22.68	22.73	23.04
		RB1#14	0	0	22.61	22.70	23.01
		RB6#0	1	1	22.58	22.63	22.99
		RB6#9	1	1	22.37	22.61	22.93
		RB15#0	1	1	22.46	22.55	22.79
	16-QAM	RB1#0	1	1	20.93	21.06	21.30
		RB1#8	1	1	20.92	21.03	21.28
		RB1#14	1	1	20.83	21.05	21.25
		RB6#0	2	2	20.77	20.93	21.17
		RB6#9	2	2	20.81	20.98	21.19
		RB15#0	2	2	20.71	20.89	21.11
5M	QPSK	RB1#0	0	0	22.79	22.89	23.01
		RB1#13	0	0	22.71	22.76	23.07
		RB1#24	0	0	22.64	22.73	23.04
		RB15#0	1	1	22.61	22.66	23.02
		RB15#10	1	1	22.40	22.64	22.96
		RB25#0	1	1	22.49	22.58	22.82
	16-QAM	RB1#0	1	1	20.96	21.09	21.33
		RB1#13	1	1	20.95	21.06	21.31
		RB1#24	1	1	20.86	21.08	21.28
		RB15#0	2	2	20.80	20.96	21.20
		RB15#10	2	2	20.84	21.01	21.22
		RB25#0	2	2	20.74	20.92	21.14
10M	QPSK	RB1#0	0	0	22.83	22.93	23.05
		RB1#25	0	0	22.75	22.80	23.11
		RB1#49	0	0	22.68	22.77	23.08
		RB25#0	1	1	22.65	22.70	23.06
		RB25#25	1	1	22.44	22.68	23.00
		RB50#0	1	1	22.53	22.62	22.86

	16-QAM	RB1#0	1	1	21.00	21.13	21.37
		RB1#25	1	1	20.99	21.10	21.35
		RB1#49	1	1	20.90	21.12	21.32
		RB25#0	2	2	20.84	21.00	21.24
		RB25#25	2	2	20.88	21.05	21.26
		RB50#0	2	2	20.78	20.96	21.18
15M	QPSK	RB1#0	0	0	22.89	22.99	23.11
		RB1#38	0	0	22.81	22.86	23.17
		RB1#74	0	0	22.74	22.83	23.14
		RB36#0	1	1	22.71	22.76	23.12
		RB36#39	1	1	22.50	22.74	23.06
		RB75#0	1	1	22.59	22.68	22.92
	16-QAM	RB1#0	1	1	21.06	21.19	21.43
		RB1#38	1	1	21.05	21.16	21.41
		RB1#74	1	1	20.96	21.18	21.38
		RB36#0	2	2	20.90	21.06	21.30
		RB36#39	2	2	20.94	21.11	21.32
		RB75#0	2	2	20.84	21.02	21.24
20M	QPSK	RB1#0	0	0	22.98	23.12	**23.33**
		RB1#50	0	0	22.91	23.06	23.29
		RB1#99	0	0	22.86	23.01	23.22
		RB50#0	1	1	22.78	22.95	23.16
		RB50#50	1	1	22.72	22.87	23.10
		RB100#0	1	1	22.64	22.82	23.06
	16-QAM	RB1#0	1	1	21.14	21.32	21.56
		RB1#50	1	1	21.11	21.29	21.53
		RB1#99	1	1	21.10	21.28	21.52
		RB50#0	2	2	21.02	21.20	21.44
		RB50#50	2	2	21.01	21.19	21.43
		RB100#0	2	2	20.96	21.14	21.38

LTE Band 5:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	23.91	24.21	24.41
		RB1#3	0	0	23.87	24.15	24.34
		RB1#5	0	0	23.79	24.10	24.36
		RB3#0	1	1	23.89	24.19	24.39
		RB3#3	1	1	23.85	24.13	24.32
		RB6#0	1	1	23.77	24.08	24.34
	16-QAM	RB1#0	1	1	22.12	22.43	22.70
		RB1#3	1	1	22.11	22.43	22.67
		RB1#5	1	1	22.08	22.41	22.66
		RB3#0	2	2	22.11	22.42	22.69
		RB3#3	2	2	22.10	22.42	22.66
		RB6#0	2	2	22.07	22.40	22.65
3M	QPSK	RB1#0	0	0	23.95	24.25	24.45
		RB1#8	0	0	23.91	24.19	24.38
		RB1#14	0	0	23.83	24.14	24.40
		RB6#0	1	1	23.81	24.16	24.26
		RB6#9	1	1	23.73	24.06	24.22
		RB15#0	1	1	23.72	24.04	24.18
	16-QAM	RB1#0	1	1	22.16	22.47	22.74
		RB1#8	1	1	22.15	22.47	22.71
		RB1#14	1	1	22.12	22.45	22.70
		RB6#0	2	2	21.89	22.22	22.44
		RB6#9	2	2	21.81	22.21	22.42
		RB15#0	2	2	21.76	22.07	22.36
5M	QPSK	RB1#0	0	0	24.01	24.31	24.51
		RB1#13	0	0	23.97	24.25	24.44
		RB1#24	0	0	23.89	24.20	24.46
		RB15#0	1	1	23.87	24.22	24.32
		RB15#10	1	1	23.79	24.12	24.28
		RB25#0	1	1	23.78	24.10	24.24
	16-QAM	RB1#0	1	1	22.22	22.53	22.80
		RB1#13	1	1	22.21	22.53	22.77
		RB1#24	1	1	22.18	22.51	22.76
		RB15#0	2	2	21.95	22.28	22.50
		RB15#10	2	2	21.87	22.27	22.48
		RB25#0	2	2	21.82	22.13	22.42
10M	QPSK	RB1#0	0	0	24.12	24.45	**24.61**
		RB1#25	0	0	24.06	24.41	24.57
		RB1#49	0	0	24.03	24.35	24.53
		RB25#0	1	1	23.99	24.32	24.45
		RB25#25	1	1	23.91	24.25	24.41
		RB50#0	1	1	23.84	24.16	24.37
	16-QAM	RB1#0	1	1	22.34	22.66	22.87
		RB1#25	1	1	22.31	22.63	22.84

		RB1#49	1	1	22.30	22.62	22.83
		RB25#0	2	2	22.01	22.33	22.54
		RB25#25	2	2	22.00	22.32	22.53
		RB50#0	2	2	21.95	22.27	22.48

LTE Band 7:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	0	0	24.37	24.63	24.61
		RB1#13	0	0	24.31	24.59	24.58
		RB1#24	0	0	24.25	24.53	24.56
		RB15#0	1	1	24.21	24.55	24.51
		RB15#10	1	1	24.13	24.51	24.48
		RB25#0	1	1	24.12	24.37	24.43
	16-QAM	RB1#0	1	1	22.67	22.95	22.94
		RB1#13	1	1	22.62	22.90	22.95
		RB1#24	1	1	22.63	22.91	22.89
		RB15#0	2	2	22.54	22.82	22.81
		RB15#10	2	2	22.55	22.82	22.80
		RB25#0	2	2	22.49	22.76	22.76
10M	QPSK	RB1#0	0	0	24.41	24.67	24.65
		RB1#25	0	0	24.35	24.63	24.62
		RB1#49	0	0	24.29	24.57	24.60
		RB25#0	1	1	24.25	24.59	24.55
		RB25#25	1	1	24.17	24.55	24.52
		RB50#0	1	1	24.16	24.41	24.47
	16-QAM	RB1#0	1	1	22.71	22.99	22.98
		RB1#25	1	1	22.66	22.94	22.99
		RB1#49	1	1	22.67	22.95	22.93
		RB25#0	2	2	22.58	22.86	22.85
		RB25#25	2	2	22.59	22.86	22.84
		RB50#0	2	2	22.53	22.80	22.80
15M	QPSK	RB1#0	0	0	24.47	24.73	24.71
		RB1#38	0	0	24.41	24.69	24.68
		RB1#74	0	0	24.35	24.63	24.66
		RB36#0	1	1	24.31	24.65	24.61
		RB36#39	1	1	24.23	24.61	24.58
		RB75#0	1	1	24.22	24.47	24.53
	16-QAM	RB1#0	1	1	22.77	23.05	23.04
		RB1#38	1	1	22.72	23.00	23.05
		RB1#74	1	1	22.73	23.01	22.99
		RB36#0	2	2	22.64	22.92	22.91
		RB36#39	2	2	22.65	22.92	22.90
		RB75#0	2	2	22.59	22.86	22.86
20M	QPSK	RB1#0	0	0	24.58	**24.82**	24.79
		RB1#50	0	0	24.55	24.77	24.75
		RB1#99	0	0	24.49	24.74	24.71
		RB50#0	1	1	24.43	24.71	24.67
		RB50#50	1	1	24.36	24.67	24.63
		RB100#0	1	1	24.32	24.61	24.61
	16-QAM	RB1#0	1	1	22.82	23.11	23.11

		RB1#50	1	1	22.79	23.08	23.08
		RB1#99	1	1	22.78	23.07	23.07
		RB50#0	2	2	22.70	22.99	22.99
		RB50#50	2	2	22.69	22.98	22.98
		RB100#0	2	2	22.64	22.93	22.93

LTE Band 12:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	24.55	24.33	23.99
		RB1#3	0	0	24.43	24.26	23.90
		RB1#5	0	0	24.48	24.16	23.78
		RB3#0	1	1	24.53	24.31	23.97
		RB3#3	1	1	24.41	24.24	23.88
		RB6#0	1	1	24.46	24.14	23.76
	16-QAM	RB1#0	1	1	22.75	22.46	22.16
		RB1#3	1	1	22.72	22.44	22.17
		RB1#5	1	1	22.72	22.41	22.14
		RB3#0	2	2	22.74	22.45	22.15
		RB3#3	2	2	22.71	22.43	22.16
		RB6#0	2	2	22.71	22.40	22.13
3M	QPSK	RB1#0	0	0	24.59	24.37	24.03
		RB1#8	0	0	24.47	24.30	23.94
		RB1#14	0	0	24.52	24.20	23.82
		RB6#0	1	1	24.36	24.16	23.85
		RB6#9	1	1	24.22	24.10	23.81
		RB15#0	1	1	24.24	24.00	23.72
	16-QAM	RB1#0	1	1	22.79	22.50	22.20
		RB1#8	1	1	22.76	22.48	22.21
		RB1#14	1	1	22.76	22.45	22.18
		RB6#0	2	2	22.57	22.29	22.02
		RB6#9	2	2	22.60	22.37	22.02
		RB15#0	2	2	22.47	22.33	21.93
5M	QPSK	RB1#0	0	0	24.65	24.43	24.09
		RB1#13	0	0	24.53	24.36	24.00
		RB1#24	0	0	24.58	24.26	23.88
		RB15#0	1	1	24.42	24.22	23.91
		RB15#10	1	1	24.28	24.16	23.87
		RB25#0	1	1	24.30	24.06	23.78
	16-QAM	RB1#0	1	1	22.85	22.56	22.26
		RB1#13	1	1	22.82	22.54	22.27
		RB1#24	1	1	22.82	22.51	22.24
		RB15#0	2	2	22.63	22.35	22.08
		RB15#10	2	2	22.66	22.43	22.08
		RB25#0	2	2	22.53	22.39	21.99
10M	QPSK	RB1#0	0	0	**24.75**	24.57	24.24
		RB1#25	0	0	24.69	24.48	24.13
		RB1#49	0	0	24.64	24.39	24.03
		RB25#0	1	1	24.53	24.30	23.99
		RB25#25	1	1	24.44	24.26	23.94
		RB50#0	1	1	24.40	24.16	23.84
	16-QAM	RB1#0	1	1	22.90	22.66	22.34

		RB1#25	1	1	22.87	22.63	22.31
		RB1#49	1	1	22.86	22.62	22.30
		RB25#0	2	2	22.73	22.49	22.17
		RB25#25	2	2	22.72	22.48	22.16
		RB50#0	2	2	22.67	22.43	22.11

LTE Band 13:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	0	0	24.88	24.95	24.86
		RB1#13	0	0	24.78	24.94	24.87
		RB1#24	0	0	24.82	24.91	24.88
		RB15#0	1	1	23.86	24.00	23.98
		RB15#10	1	1	23.83	23.98	23.91
		RB25#0	1	1	23.86	23.93	23.90
	16-QAM	RB1#0	1	1	22.34	22.43	22.37
		RB1#13	1	1	22.33	22.40	22.33
		RB1#24	1	1	22.26	22.39	22.32
		RB15#0	2	2	21.36	21.51	21.50
		RB15#10	2	2	21.41	21.50	21.49
		RB25#0	2	2	21.34	21.45	21.42
10M	QPSK	RB1#0	0	0	/	**24.98**	/
		RB1#25	0	0	/	24.97	/
		RB1#49	0	0	/	24.94	/
		RB25#0	1	1	/	23.92	/
		RB25#25	1	1	/	23.90	/
		RB50#0	1	1	/	23.85	/
	16-QAM	RB1#0	1	1	/	22.35	/
		RB1#25	1	1	/	22.32	/
		RB1#49	1	1	/	22.31	/
		RB25#0	2	2	/	21.43	/
		RB25#25	2	2	/	21.42	/
		RB50#0	2	2	/	21.37	/

LTE Band 14:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	0	0	24.75	24.82	24.76
		RB1#13	0	0	24.69	24.81	24.78
		RB1#24	0	0	24.61	24.78	24.76
		RB15#0	1	1	23.74	23.87	23.81
		RB15#10	1	1	23.69	23.85	23.76
		RB25#0	1	1	23.63	23.80	23.74
	16-QAM	RB1#0	1	1	22.22	22.30	22.22
		RB1#13	1	1	22.12	22.27	22.26
		RB1#24	1	1	22.17	22.26	22.19
		RB15#0	2	2	21.29	21.38	21.32
		RB15#10	2	2	21.25	21.37	21.29
		RB25#0	2	2	21.22	21.32	21.25
10M	QPSK	RB1#0	0	0	/	**24.85**	/
		RB1#25	0	0	/	24.84	/
		RB1#49	0	0	/	24.81	/
		RB25#0	1	1	/	23.79	/
		RB25#25	1	1	/	23.77	/
		RB50#0	1	1	/	23.72	/
	16-QAM	RB1#0	1	1	/	22.22	/
		RB1#25	1	1	/	22.19	/
		RB1#49	1	1	/	22.18	/
		RB25#0	2	2	/	21.30	/
		RB25#25	2	2	/	21.29	/
		RB50#0	2	2	/	21.24	/

LTE Band 17:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	0	0	23.89	23.86	24.00
		RB1#13	0	0	23.85	23.81	24.01
		RB1#24	0	0	23.82	23.77	23.98
		RB15#0	1	1	22.90	22.87	23.01
		RB15#10	1	1	22.91	22.86	22.93
		RB25#0	1	1	22.84	22.74	22.97
	16-QAM	RB1#0	1	1	22.36	22.32	22.48
		RB1#13	1	1	22.37	22.27	22.51
		RB1#24	1	1	22.37	22.28	22.42
		RB15#0	2	2	21.51	21.41	21.56
		RB15#10	2	2	21.44	21.46	21.54
		RB25#0	2	2	21.43	21.38	21.56
10M	QPSK	RB1#0	0	0	24.02	23.94	24.11
		RB1#25	0	0	24.01	23.93	24.10
		RB1#49	1	1	23.98	23.90	24.07
		RB25#0	1	1	23.02	22.95	23.11
		RB25#25	1	1	23.00	22.93	23.09
		RB50#0	1	1	22.95	22.88	23.04
	16-QAM	RB1#0	1	1	22.50	22.43	22.59
		RB1#25	1	1	22.47	22.40	22.56
		RB1#49	1	1	22.46	22.39	22.55
		RB25#0	2	2	21.58	21.51	21.67
		RB25#25	2	2	21.57	21.50	21.66
		RB50#0	2	2	21.52	21.45	21.61

LTE Band 25:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	24.59	24.49	24.67
		RB1#3	0	0	24.31	24.36	24.52
		RB1#5	0	0	24.32	24.25	24.43
		RB3#0	1	1	24.57	24.47	24.65
		RB3#3	1	1	24.29	24.34	24.50
		RB6#0	1	1	24.30	24.23	24.41
	16-QAM	RB1#0	1	1	23.09	22.99	23.17
		RB1#3	1	1	22.87	22.96	23.14
		RB1#5	1	1	22.88	22.95	23.13
		RB3#0	2	2	23.08	22.98	23.16
		RB3#3	2	2	22.86	22.95	23.13
		RB6#0	2	2	22.87	22.94	23.12
3M	QPSK	RB1#0	0	0	24.60	24.50	24.68
		RB1#8	0	0	24.33	24.37	24.53
		RB1#14	0	0	24.24	24.26	24.44
		RB6#0	1	1	24.13	24.12	24.35
		RB6#9	1	1	23.93	24.05	24.23
		RB15#0	1	1	23.67	23.91	24.09
	16-QAM	RB1#0	1	1	23.10	23.00	23.18
		RB1#8	1	1	22.89	22.97	23.15
		RB1#14	1	1	22.21	22.96	23.14
		RB6#0	2	2	22.20	22.08	22.26
		RB6#9	2	2	22.15	22.07	22.25
		RB15#0	2	2	22.13	22.02	22.20
5M	QPSK	RB1#0	0	0	24.62	24.52	24.70
		RB1#13	0	0	24.35	24.39	24.55
		RB1#24	0	0	24.26	24.28	24.46
		RB15#0	1	1	24.15	24.14	24.37
		RB15#10	1	1	23.95	24.07	24.25
		RB25#0	1	1	23.69	23.93	24.11
	16-QAM	RB1#0	1	1	23.12	23.02	23.20
		RB1#13	1	1	23.11	22.99	23.17
		RB1#24	1	1	22.23	22.98	23.16
		RB15#0	2	2	22.22	22.10	22.28
		RB15#10	2	2	22.17	22.09	22.27
		RB25#0	2	2	22.15	22.04	22.22
10M	QPSK	RB1#0	0	0	24.64	24.54	24.72
		RB1#25	0	0	24.37	24.41	24.57
		RB1#49	0	0	24.28	24.30	24.48
		RB25#0	1	1	24.17	24.16	24.39
		RB25#25	1	1	23.97	24.09	24.27
		RB50#0	1	1	23.71	23.95	24.13
	16-QAM	RB1#0	1	1	23.14	23.04	23.22
		RB1#25	1	1	23.13	23.01	23.19

		RB1#49	1	1	22.25	23.00	23.18
		RB25#0	2	2	22.24	22.12	22.30
		RB25#25	2	2	22.19	22.11	22.29
		RB50#0	2	2	22.17	22.06	22.24
15M	QPSK	RB1#0	0	0	24.66	24.56	24.74
		RB1#38	0	0	24.39	24.43	24.59
		RB1#74	0	0	24.30	24.32	24.50
		RB36#0	1	1	24.19	24.18	24.41
		RB36#39	1	1	23.99	24.11	24.29
		RB75#0	1	1	23.73	23.97	24.15
	16-QAM	RB1#0	1	1	23.16	23.06	23.24
		RB1#38	1	1	23.15	23.03	23.21
		RB1#74	1	1	22.27	23.02	23.20
		RB36#0	2	2	22.26	22.14	22.32
		RB36#39	2	2	22.21	22.13	22.31
		RB75#0	2	2	22.19	22.08	22.26
20M	QPSK	RB1#0	0	0	24.69	24.59	**24.77**
		RB1#50	0	0	24.42	24.46	24.62
		RB1#99	0	0	24.33	24.35	24.53
		RB50#0	1	1	24.22	24.21	24.44
		RB50#50	1	1	24.02	24.14	24.32
		RB100#0	1	1	23.76	24.00	24.18
	16-QAM	RB1#0	1	1	23.19	23.09	23.27
		RB1#50	1	1	23.18	23.06	23.24
		RB1#99	1	1	22.30	23.05	23.23
		RB50#0	2	2	22.29	22.17	22.35
		RB50#50	2	2	22.24	22.16	22.34
		RB100#0	2	2	22.22	22.11	22.29

LTE Band 26:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	24.75	24.69	24.52
		RB1#3	0	0	24.67	24.63	24.46
		RB1#5	0	0	24.64	24.57	24.41
		RB3#0	1	1	24.37	24.31	24.14
		RB3#3	1	1	24.56	24.61	24.44
		RB6#0	1	1	24.47	24.47	24.18
	16-QAM	RB1#0	1	1	22.97	22.97	22.68
		RB1#3	1	1	22.94	22.94	22.65
		RB1#5	1	1	22.93	22.93	22.64
		RB3#0	2	2	22.96	22.96	22.67
		RB3#3	2	2	22.92	22.92	22.63
		RB6#0	2	2	21.84	21.84	21.55
3M	QPSK	RB1#0	0	0	24.76	24.70	24.53
		RB1#8	0	0	24.68	24.64	24.47
		RB1#14	0	0	24.65	24.58	24.42
		RB6#0	1	1	24.59	24.52	24.34
		RB6#9	1	1	24.55	24.49	24.27
		RB15#0	1	1	24.48	24.48	24.19
	16-QAM	RB1#0	1	1	23.13	23.13	22.84
		RB1#8	1	1	23.10	23.10	22.81
		RB1#14	1	1	23.09	23.09	22.80
		RB6#0	2	2	22.21	22.21	21.92
		RB6#9	2	2	22.20	22.20	21.91
		RB15#0	2	2	22.00	22.00	21.71
5M	QPSK	RB1#0	0	0	24.78	24.72	24.55
		RB1#13	0	0	24.70	24.66	24.49
		RB1#24	0	0	24.67	24.60	24.44
		RB15#0	1	1	24.61	24.54	24.36
		RB15#10	1	1	24.57	24.51	24.29
		RB25#0	1	1	24.50	24.50	24.21
	16-QAM	RB1#0	1	1	22.98	22.98	22.69
		RB1#13	1	1	22.95	22.95	22.66
		RB1#24	1	1	22.94	22.94	22.65
		RB15#0	2	2	22.06	22.06	21.77
		RB15#10	2	2	22.05	22.05	21.76
		RB25#0	2	2	21.85	21.85	21.56
10M	QPSK	RB1#0	0	0	24.80	24.74	24.57
		RB1#25	0	0	24.72	24.68	24.51
		RB1#49	0	0	24.69	24.62	24.46
		RB25#0	1	1	24.63	24.56	24.38
		RB25#25	1	1	24.59	24.53	24.31
		RB50#0	1	1	24.52	24.52	24.23
	16-QAM	RB1#0	1	1	23.02	23.02	22.73
		RB1#25	1	1	22.99	22.99	22.70

		RB1#49	1	1	22.98	22.98	22.69
		RB25#0	2	2	22.10	22.10	21.81
		RB25#25	2	2	22.09	22.09	21.80
		RB50#0	2	2	21.89	21.89	21.60
15M	QPSK	RB1#0	0	0	**24.82**	24.76	24.59
		RB1#38	0	0	24.74	24.70	24.53
		RB1#74	0	0	24.71	24.64	24.48
		RB36#0	1	1	24.65	24.58	24.40
		RB36#39	1	1	24.61	24.55	24.33
		RB75#0	1	1	24.54	24.54	24.25
	16-QAM	RB1#0	1	1	23.04	23.04	22.75
		RB1#38	1	1	23.01	23.01	22.72
		RB1#74	1	1	23.00	23.00	22.71
		RB36#0	2	2	22.12	22.12	21.83
		RB36#39	2	2	22.11	22.11	21.82
		RB75#0	2	2	21.91	21.91	21.62

LTE Band 66:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	0	0	23.49	23.44	23.59
		RB1#3	0	0	23.47	23.52	23.75
		RB1#5	0	0	23.42	23.52	23.69
		RB3#0	1	1	23.47	23.42	23.57
		RB3#3	1	1	23.45	23.50	23.73
		RB6#0	1	1	23.40	23.50	23.67
	16-QAM	RB1#0	1	1	21.91	21.80	21.94
		RB1#3	1	1	21.88	21.81	21.92
		RB1#5	1	1	21.89	21.80	21.92
		RB3#0	2	2	21.90	21.79	21.93
		RB3#3	2	2	21.87	21.80	21.91
		RB6#0	2	2	21.88	21.79	21.91
3M	QPSK	RB1#0	0	0	23.50	23.45	23.60
		RB1#8	0	0	23.48	23.53	23.76
		RB1#14	0	0	23.43	23.53	23.70
		RB6#0	1	1	23.43	23.41	23.52
		RB6#9	1	1	23.34	23.35	23.49
		RB15#0	1	1	23.41	23.30	23.53
	16-QAM	RB1#0	1	1	21.92	21.81	21.95
		RB1#8	1	1	21.89	21.82	21.93
		RB1#14	1	1	21.90	21.81	21.93
		RB6#0	2	2	21.75	21.71	21.83
		RB6#9	2	2	21.73	21.71	21.85
		RB15#0	2	2	21.74	21.59	21.74
5M	QPSK	RB1#0	0	0	23.53	23.48	23.63
		RB1#13	0	0	23.51	23.56	23.79
		RB1#24	0	0	23.46	23.56	23.73
		RB15#0	1	1	23.46	23.44	23.55
		RB15#10	1	1	23.37	23.38	23.52
		RB25#0	1	1	23.44	23.33	23.56
	16-QAM	RB1#0	1	1	20.90	20.79	20.93
		RB1#13	1	1	20.87	20.80	20.91
		RB1#24	1	1	20.88	20.79	20.91
		RB15#0	2	2	20.73	20.69	20.81
		RB15#10	2	2	20.71	20.69	20.83
		RB25#0	2	2	20.72	20.57	20.72
10M	QPSK	RB1#0	0	0	23.57	23.52	23.67
		RB1#25	0	0	23.55	23.60	23.83
		RB1#49	0	0	23.50	23.60	23.77
		RB25#0	1	1	23.50	23.48	23.59
		RB25#25	1	1	23.41	23.42	23.56
		RB50#0	1	1	23.48	23.37	23.60

	16-QAM	RB1#0	1	1	21.99	21.88	22.02
		RB1#25	1	1	21.96	21.89	22.00
		RB1#49	1	1	21.97	21.88	22.00
		RB25#0	2	2	21.82	21.78	21.90
		RB25#25	2	2	21.80	21.78	21.92
		RB50#0	2	2	21.81	21.66	21.81
15M	QPSK	RB1#0	0	0	23.63	23.58	23.73
		RB1#38	0	0	23.61	23.66	23.89
		RB1#74	0	0	23.56	23.66	23.83
		RB36#0	1	1	23.56	23.54	23.65
		RB36#39	1	1	23.47	23.48	23.62
		RB75#0	1	1	23.54	23.43	23.66
	16-QAM	RB1#0	1	1	22.05	21.94	22.08
		RB1#38	1	1	22.02	21.95	22.06
		RB1#74	1	1	22.03	21.94	22.06
		RB36#0	2	2	21.88	21.84	21.96
		RB36#39	2	2	21.86	21.84	21.98
		RB75#0	2	2	21.87	21.72	21.87
20M	QPSK	RB1#0	0	0	23.82	23.79	23.94
		RB1#50	0	0	23.78	23.74	23.93
		RB1#99	0	0	23.77	23.70	23.89
		RB50#0	1	1	23.70	23.66	23.82
		RB50#50	1	1	23.68	23.60	23.78
		RB100#0	1	1	23.66	23.57	23.72
	16-QAM	RB1#0	1	1	22.16	22.07	22.22
		RB1#50	1	1	22.13	22.04	22.19
		RB1#99	1	1	22.12	22.03	22.18
		RB50#0	2	2	22.01	21.92	22.07
		RB50#50	2	2	22.00	21.91	22.06
		RB100#0	2	2	21.95	21.86	22.01

LTE Band 71:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	0	0	23.02	23.24	22.93
		RB1#13	0	0	23.00	23.15	22.99
		RB1#24	0	0	22.95	23.11	22.86
		RB15#0	1	1	22.93	23.06	22.90
		RB15#10	1	1	22.91	22.91	22.82
		RB25#0	1	1	22.82	22.95	22.78
	16-QAM	RB1#0	1	1	21.32	21.43	21.32
		RB1#13	1	1	21.32	21.40	21.32
		RB1#24	1	1	21.30	21.41	21.27
		RB15#0	2	2	21.20	21.35	21.20
		RB15#10	2	2	21.24	21.35	21.18
		RB25#0	2	2	21.18	21.29	21.12
10M	QPSK	RB1#0	0	0	23.06	23.28	22.97
		RB1#25	0	0	23.04	23.19	23.03
		RB1#49	0	0	22.99	23.15	22.90
		RB25#0	1	1	22.97	23.10	22.94
		RB25#25	1	1	22.95	22.95	22.86
		RB50#0	1	1	22.86	22.99	22.82
	16-QAM	RB1#0	1	1	21.36	21.47	21.36
		RB1#25	1	1	21.36	21.44	21.36
		RB1#49	1	1	21.34	21.45	21.31
		RB25#0	2	2	21.24	21.39	21.24
		RB25#25	2	2	21.28	21.39	21.22
		RB50#0	2	2	21.22	21.33	21.16
15M	QPSK	RB1#0	0	0	23.12	23.34	23.03
		RB1#38	0	0	23.10	23.25	23.09
		RB1#74	0	0	23.05	23.21	22.96
		RB36#0	1	1	23.03	23.16	23.00
		RB36#39	1	1	23.01	23.01	22.92
		RB75#0	1	1	22.92	23.05	22.88
	16-QAM	RB1#0	1	1	21.42	21.53	21.42
		RB1#38	1	1	21.42	21.50	21.42
		RB1#74	1	1	21.40	21.51	21.37
		RB36#0	2	2	21.30	21.45	21.30
		RB36#39	2	2	21.34	21.45	21.28
		RB75#0	2	2	21.28	21.39	21.22
20M	QPSK	RB1#0	0	0	23.25	**23.39**	23.17
		RB1#50	0	0	23.19	23.33	23.14
		RB1#99	0	0	23.17	23.28	23.08
		RB50#0	1	1	23.11	23.21	23.05
		RB50#50	1	1	23.06	23.14	23.01
		RB100#0	1	1	23.00	23.11	22.98

	16-QAM	RB1#0	1	1	21.50	21.61	21.48
		RB1#50	1	1	21.47	21.58	21.45
		RB1#99	1	1	21.46	21.57	21.44
		RB50#0	2	2	21.38	21.49	21.36
		RB50#50	2	2	21.37	21.48	21.35
		RB100#0	2	2	21.32	21.43	21.30

Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
BDR(GFSK)	2402	5.03
	2441	6.64
	2480	6.11
EDR(π/4-DQPSK)	2402	5.89
	2441	7.42
	2480	7.47
EDR(8DPSK)	2402	6.36
	2441	7.84
	2480	7.09
BLE(1M)	2402	-2.18
	2440	-1.07
	2480	-3.01

Wi-Fi 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Peak Output Power (dBm)
802.11b	2412	1Mbps	17.67
	2442		17.95
	2472		16.93
802.11g	2412	6Mbps	12.09
	2442		12.56
	2472		11.58
802.11n HT20	2412	MCS0	12.63
	2442		13.02
	2472		11.92
802.11n HT40	2422	MCS0	17.64
	2442		18.48
	2452		17.82

WLAN 5G:

Mode	Channel frequency	Data Rate	RF Output Power(dBm)
802.11a	5180	6Mbps	9.95
	5200		8.10
	5240		8.00
802.11AC20	5180	MCS0	6.50
	5200		6.91
	5240		6.69
802.11N20	5180	MCS0	6.44
	5200		6.85
	5240		6.73
802.11AC40	5190	MCS0	7.07
	5230		6.12
802.11N40	5190	MCS0	7.10
	5230		6.14
802.11AC80	5210	MCS0	6.27

Mode	Channel frequency	Data Rate	RF Output Power(dBm)
802.11a	5745	6Mbps	7.32
	5785		7.54
	5825		6.47
802.11AC20	5745	MCS0	7.26
	5785		7.59
	5825		6.53
802.11N20	5745	MCS0	7.22
	5785		7.52
	5825		6.53
802.11AC40	5755	MCS0	8.17
	5795		8.24
802.11N40	5755	MCS0	8.11
	5795		8.21
802.11AC80	5775	MCS0	7.74

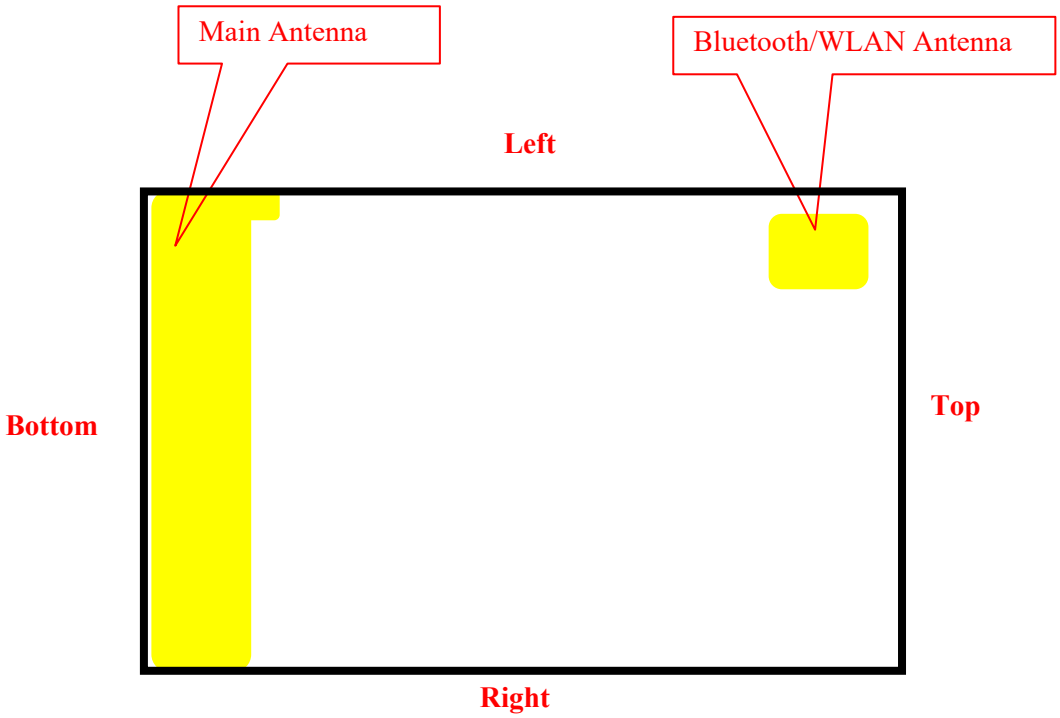
Duty Cycle:

Test Mode	Duty Cycle [%]
802.11b	98.10
802.11g	97.96
802.11n-HT20	97.13
802.11n-HT40	93.81
BLE 1M	61.90
802.11A	98.07
802.11AC-VHT20	97.94
802.11AC-VHT40	96.91
802.11AC-VHT80	93.88

Note: Duty cycle data is derived from radio reports.

Standalone SAR test exclusion considerations

Antennas Location:



EUT Front View

Information of Belt :

Antenna Distance To Edge:

Antenna Distance To Edge(mm)						
Antenna	**Front**	**Back**	**Left**	**Right**	**Top**	**Bottom**
Main Antenna	< 5	< 5	< 5	< 5	91	< 5
BT/BLE/WLAN Antenna	< 5	< 5	6	52	< 5	85

Standalone SAR test exclusion considerations:

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
2.4G WLAN	2472	18.5	70.79	5	22.3	3	No
5.2G WLAN	5240	10.0	10.00	5	4.6	3	No
5.8G WLAN	5825	8.5	7.08	5	3.4	3	No
Bluetooth	2480	8.5	7.08	5	2.2	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)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Estimated 1-g (W/kg)
BT Body	2480	8.5	7.08	10	0.15

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.

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	Front	Back	Left	Right	Top	Bottom
2.4G Wi-Fi	**Required**	**Required**	**Required**	Exclusion	**Required**	Exclusion
5G Wi-Fi	**Required**	**Required**	**Required**	Exclusion	**Required**	Exclusion
WWAN	**Required**	**Required**	**Required**	**Required**	Exclusion	**Required**
Bluetooth	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*

Note:

Required: The distance to Edge is less than 25mm, testing is required.
Exclusion: The distance to Edge is more than 25 mm, testing is not required.
Exclusion*: SAR test exclusion evaluation has been done above.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	22.6-23.8 ℃	22.3-23.6 ℃	22.5-23.4 ℃	22.6-23.1 ℃	22.3-22.5 ℃
Relative Humidity:	52-63 %	46-58 %	42-56 %	52-59 %	45-61 %
ATM Pressure:	101.3 kPa	101.3 kPa	101.3 kPa	101.3 kPa	101.3 kPa
Test Date:	2024/05/07	2024/05/08	2024/05/11	2024/05/12	2024/06/13

Testing was performed by Sid Luo, Calvin Li and Bob Lu.

Note:

1. Since the test distance of Body Front and Face Up are both 10mm, we can choose Body Front data as the data of Face Up
2. Since the test distance of the Body Back (10mm) is more conservative than that of the Body Worn Back With Belt(30mm) , the data of the Body Back (10mm) test is chosen

LTE Band 7：

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	24.82	25.0	1.042	0.228	**0.24**	1#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	24.71	25.0	1.069	0.13	0.14	2#
Body Back (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	24.82	25.0	1.042	0.132	0.14	3#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	24.71	25.0	1.069	0.113	0.12	4#
Body Left (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	24.82	25.0	1.042	0.206	0.21	5#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	24.71	25.0	1.069	0.158	0.17	6#
Body Right (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	24.82	25.0	1.042	0.047	0.05	7#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	24.71	25.0	1.069	0.034	0.04	8#
Body Bottom (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	24.82	25.0	1.042	0.248	**0.26**	**9#**
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	24.71	25.0	1.069	0.216	0.23	10#

LTE Band 12&17：

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	24.57	25.0	1.104	0.089	0.10	11#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	24.30	25.0	1.175	0.098	**0.12**	**12#**
Body Back (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	24.57	25.0	1.104	0.102	**0.11**	13#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	24.30	25.0	1.175	0.076	0.09	14#
Body Left (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	24.57	25.0	1.104	0.059	0.07	15#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	24.30	25.0	1.175	0.045	0.05	16#
Body Right (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	24.57	25.0	1.104	0.102	0.11	17#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	24.30	25.0	1.175	0.076	0.09	18#
Body Bottom (10mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	24.57	25.0	1.104	0.072	0.08	19#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	24.30	25.0	1.175	0.054	0.06	20#

LTE Band 13：

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	/	/	/	/	/	/	/	/	/
	782	10	1RB	24.98	25.0	1.005	0.179	0.18	21#
	/	/	/	/	/	/	/	/	/
	782	10	50%RB	23.92	25.0	1.282	0.161	**0.21**	22#
Body Back (10mm)	/	/	/	/	/	/	/	/	/
	782	10	1RB	24.98	25.0	1.005	0.13	0.13	23#
	/	/	/	/	/	/	/	/	/
	782	10	50%RB	23.92	25.0	1.282	0.113	0.14	24#
Body Left (10mm)	/	/	/	/	/	/	/	/	/
	782	10	1RB	24.98	25.0	1.005	0.176	0.18	25#
	/	/	/	/	/	/	/	/	/
	782	10	50%RB	23.92	25.0	1.282	0.14	0.18	26#
Body Right (10mm)	/	/	/	/	/	/	/	/	/
	782	10	1RB	24.98	25.0	1.005	0.194	0.19	27#
	/	/	/	/	/	/	/	/	/
	782	10	50%RB	23.92	25.0	1.282	0.176	**0.23**	**28#**
Body Bottom (10mm)	/	/	/	/	/	/	/	/	/
	782	10	1RB	24.98	25.0	1.005	0.1	0.10	29#
	/	/	/	/	/	/	/	/	/
	782	10	50%RB	23.92	25.0	1.282	0.077	0.10	30#

LTE Band 14：

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	/	/	/	/	/	/	/	/	/
	793	10	1RB	24.85	25.0	1.035	0.198	0.20	31#
	/	/	/	/	/	/	/	/	/
	793	10	50%RB	23.79	25.0	1.321	0.18	**0.24**	32#
Body Back (10mm)	/	/	/	/	/	/	/	/	/
	793	10	1RB	24.85	25.0	1.035	0.165	0.17	33#
	/	/	/	/	/	/	/	/	/
	793	10	50%RB	23.79	25.0	1.321	0.151	0.20	34#
Body Left (10mm)	/	/	/	/	/	/	/	/	/
	793	10	1RB	24.85	25.0	1.035	0.174	0.18	35#
	/	/	/	/	/	/	/	/	/
	793	10	50%RB	23.79	25.0	1.321	0.148	0.20	36#
Body Right (10mm)	/	/	/	/	/	/	/	/	/
	793	10	1RB	24.85	25.0	1.035	0.338	0.35	37#
	/	/	/	/	/	/	/	/	/
	793	10	50%RB	23.79	25.0	1.321	0.286	**0.38**	**38#**
Body Bottom (10mm)	/	/	/	/	/	/	/	/	/
	793	10	1RB	24.85	25.0	1.035	0.127	0.13	39#
	/	/	/	/	/	/	/	/	/
	793	10	50%RB	23.79	25.0	1.321	0.110	0.15	40#

LTE Band 25&2：

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	24.59	25.0	1.099	0.109	**0.12**	41#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	24.21	25.0	1.199	0.08	0.10	42#
Body Back (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	24.59	25.0	1.099	0.048	0.05	43#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	24.21	25.0	1.199	0.038	0.05	44#
Body Left (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	24.59	25.0	1.099	0.118	0.13	45#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	24.21	25.0	1.199	0.087	0.10	46#
Body Right (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	24.59	25.0	1.099	0.034	0.04	47#
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	24.21	25.0	1.199	0.027	0.03	48#
Body Bottom (10mm)	1860	20	1RB	/	/	/	/	/	/
	1882.5	20	1RB	24.59	25.0	1.099	0.177	**0.19**	**49#**
	1905	20	1RB	/	/	/	/	/	/
	1882.5	20	50%RB	24.21	25.0	1.199	0.133	0.16	50#

LTE Band 26&5：

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	24.76	25.0	1.057	0.257	**0.27**	51#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	24.58	25.0	1.102	0.206	0.23	52#
Body Back (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	24.76	25.0	1.057	0.126	0.13	53#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	24.58	25.0	1.102	0.098	0.11	54#
Body Left (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	24.76	25.0	1.057	0.162	0.17	55#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	24.58	25.0	1.102	0.126	0.14	56#
Body Right (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	24.76	25.0	1.057	0.383	**0.40**	**57#**
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	24.58	25.0	1.102	0.308	0.34	58#
Body Bottom (10mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	24.76	25.0	1.057	0.155	0.16	59#
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	24.58	25.0	1.102	0.128	0.14	60#

LTE Band 66&4：

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.79	24.0	1.050	0.07	**0.07**	61#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.66	24.0	1.081	0.069	0.07	62#
Body Back (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.79	24.0	1.050	0.034	0.04	63#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.66	24.0	1.081	0.034	0.04	64#
Body Left (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.79	24.0	1.050	0.088	0.09	65#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.66	24.0	1.081	0.076	0.08	66#
Body Right (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.79	24.0	1.050	0.026	0.03	67#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.66	24.0	1.081	0.026	0.03	68#
Body Bottom (10mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.79	24.0	1.050	0.226	**0.24**	**69#**
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.66	24.0	1.081	0.215	0.23	70#

LTE Band 71：

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.39	24.0	1.151	0.071	0.08	71#
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.21	24.0	1.199	0.099	**0.12**	72#
Body Back (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.39	24.0	1.151	0.05	0.06	73#
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.21	24.0	1.199	0.07	0.08	74#
Body Left (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.39	24.0	1.151	0.045	0.05	75#
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.21	24.0	1.199	0.063	0.08	76#
Body Right (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.39	24.0	1.151	0.078	0.09	77#
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.21	24.0	1.199	0.105	**0.13**	**78#**
Body Bottom (10mm)	673	20	1RB	/	/	/	/	/	/
	683	20	1RB	23.39	24.0	1.151	0.088	0.10	79#
	688	20	1RB	/	/	/	/	/	/
	683	20	50%RB	23.21	24.0	1.199	0.113	0.14	80#

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-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > 0.5 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg
3. 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.
4. 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.
5. 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.
6. 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 > 0.5 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.
7. Worst case SAR for 50% RB allocation is selected to be tested.
8. The LTE Operating Band 17 is a subset of band 12, and they are same in modulation type , the power of band 17 ≤band12.therefore, they were considered as one frequency band during SAR measurement.
9. The LTE Operating Band 2 is a subset of band 25, and they are same in modulation type , the power of band 2 ≤band25.therefore, they were considered as one frequency band during SAR measurement.
10. The LTE Operating Band 5 is a subset of band 26, and they are same in modulation type , the power of band 5 ≤band26.therefore, they were considered as one frequency band during SAR measurement.
11. The LTE Operating Band 4 is a subset of band 66, and they are same in modulation type , the power of band 4 ≤band66.therefore, they were considered as one frequency band during SAR measurement.

WLAN 2.4G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	1g SAR (W/kg)			
						Duty Cycle (%)	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2442	802.11b	17.95	18.5	1.135	98.10	0.062	**0.07**	81#
	2472	802.11b	/	/	/	/	/	/	/
Body Back (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2442	802.11b	17.95	18.5	1.135	98.10	0.136	**0.16**	**82#**
	2472	802.11b	/	/	/	/	/	/	/
Body Left (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2442	802.11b	17.95	18.5	1.135	98.10	0.05	0.06	83#
	2472	802.11b	/	/	/	/	/	/	/
Body Top (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2442	802.11b	17.95	18.5	1.135	98.10	0.088	0.10	84#
	2472	802.11b	/	/	/	/	/	/	/

Note:
1. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure. When OFDM tune up power is greater than DSSS, the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR is not required.
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 same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 80211b/g/n mode is use for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
4. According 2016 Oct. TCB, for SAR testing of 2.4G WIFI 802.11b signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to “1/(duty cycle)”.

WLAN 5G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	1g SAR (W/kg)			
						Duty Cycle (%)	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	5180	802.11a	/	/	/	/	/	/	/
	5200	802.11a	8.10	10.0	1.549	98.07	0.071	**0.11**	85#
	5240	802.11a	/	/	/	/	/	/	/
Body Back (10mm)	5180	802.11a	/	/	/	/	/	/	/
	5200	802.11a	8.10	10.0	1.549	98.07	0.103	0.16	86#
	5240	802.11a	/	/	/	/	/	/	/
Body Left (10mm)	5180	802.11a	/	/	/	/	/	/	/
	5200	802.11a	8.10	10.0	1.549	98.07	0.084	0.13	87#
	5240	802.11a	/	/	/	/	/	/	/
Body Top (10mm)	5180	802.11a	/	/	/	/	/	/	/
	5200	802.11a	8.10	10.0	1.549	98.07	0.177	**0.28**	**88#**
	5240	802.11a	/	/	/	/	/	/	/

Note:
1. 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
2. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/n20/n40/ac20/ac40/ac80 mode is use for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band, 802.11a is the initial position for the SAR test.
3. According 2016 Oct. TCB, for SAR testing of 5G WIFI 802.11a signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to “1/(duty cycle)”.

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	1g SAR (W/kg)			
						Duty Cycle (%)	Meas. SAR	Scaled SAR	Plot
Body Front (10mm)	5755	802.11ac40	/	/	/	/	/	/	/
	5795	802.11ac40	8.24	8.5	1.062	98.07	0.02	**0.02**	89#
Body Back (10mm)	5755	802.11ac40	/	/	/	/	/	/	/
	5795	802.11ac40	8.24	8.5	1.062	98.07	0.044	0.05	90#
Body Left (10mm)	5755	802.11ac40	/	/	/	/	/	/	/
	5795	802.11ac40	8.24	8.5	1.062	98.07	0.052	0.06	91#
Body Top (10mm)	5755	802.11ac40	/	/	/	/	/	/	/
	5795	802.11ac40	8.24	8.5	1.062	98.07	0.078	**0.08**	**92#**

Note:

1. 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
2. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/n20/n40/ac20/ac40/ac80 mode is use for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band, 802.11ac40 is the initial position for the SAR test.
3. According 2016 Oct. TCB, for SAR testing of 5G WIFI 802.11a signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to “1/(duty cycle)”.

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.

The Highest Measured SAR Configuration in Each Frequency Band

Body

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
/	/	/	/	/	/	/

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 + Bluetooth	√	×
WWAN + WLAN	√	√
WLAN + Bluetooth	×	×

Simultaneous and Hotspot SAR test exclusion considerations:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		ΣSAR < 1.6W/kg
		SAR1	SAR2	
WWAN+2.4G WLAN	Head	0.27	0.07	0.34
WWAN+5G WLAN	Head	0.27	0.11	0.38
WWAN+BT	Head	0.27	0.15	**0.42**
WWAN+2.4G WLAN	Body	0.40	0.16	0.56
WWAN+5G WLAN	Body	0.40	0.28	**0.68**
WWAN+BT	Body	0.40	0.15	0.55
WWAN+2.4G WLAN	Body(Hotspot)	0.40	0.16	0.56
WWAN+5G WLAN	Body(Hotspot)	0.40	0.28	**0.68**

Conclusion:

Sum of SAR: **ΣSAR ≤ 1.6 W/kg** therefore simultaneous transmission SAR with SPLSR 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

APPENDIX B EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

APPENDIX C PROBE CALIBRATION CERTIFICATES

Please Refer to the Attachment.

APPENDIX D DIPOLE CALIBRATION CERTIFICATES

Please Refer to the Attachment.

APPENDIX E SAR Return Loss&Impedance Measurement

Please Refer to the Attachment.

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