



TEST REPORT

Applicant Name: ONYX INTERNATIONAL INC.
Address: Room 101, Building 4, No. 202 Shiyu Road, Nansha District, Guangzhou City, Guangdong Province, China
Report Number: 2504V67579E-SA
FCC ID: XR3-PALMA2PRO

Test Standard (s)
FCC 47 CFR part 2.1093

Sample Description

Product Name: Mobile ePaper, Mobile E ink, Mobile Color ePaper, Mobile Color E ink, Mobile eReader
Model No.: Palma 2 Pro
Multiple Model(s) No.: BOOX Palma 2 Lite, BOOX Palma 2 Plus, BOOX Palma 2 C, BOOX Palma 2 Color
Trade Mark: BOOX
Serial Number: 35PV-1
Date Received: 2025-09-05
Date of Test: 2025-09-06~2025-09-10
Issue Date: 2025-10-19

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

Jack Yang

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SAR Engineer

Approved By:

Lance Li

Lance Li
SAR Engineer

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Mode		Max. Reported SAR Level(s) (W/kg)	Limit (W/kg)
GSM 850	1g Head SAR	0.07	1.6
	1g Body SAR	0.15	
GSM 1900	1g Head SAR	1.19	
	1g Body SAR	0.25	
WCDMA Band 2	1g Head SAR	0.73	
	1g Body SAR	0.72	
WCDMA Band 4	1g Head SAR	0.53	
	1g Body SAR	0.53	
WCDMA Band 5	1g Head SAR	0.07	
	1g Body SAR	0.17	
LTE Band 2	1g Head SAR	0.79	
	1g Body SAR	0.83	
LTE Band 4	1g Head SAR	0.61	
	1g Body SAR	0.68	
LTE Band 7	1g Head SAR	0.65	
	1g Body SAR	0.51	
LTE Band 41	1g Head SAR	0.63	
	1g Body SAR	0.20	
5G NR N66	1g Head SAR	0.65	
	1g Body SAR	0.53	
5G NR N71	1g Head SAR	0.13	
	1g Body SAR	0.23	
WIFI 2.4G	1g Head SAR	0.28	
	1g Body SAR	0.06	
WIFI 5.2G	1g Head SAR	0.25	
	1g Body SAR	0.06	
WIFI 5.3G	1g Head SAR	0.25	
	1g Body SAR	0.04	
WIFI 5.6G	1g Head SAR	0.24	
	1g Body SAR	0.06	
WIFI 5.8G	1g Head SAR	0.39	
	1g Body SAR	0.16	
Simultaneous	1g Head SAR	1.58	
	1g Body SAR	0.99	
	1g Body SAR	0.89(Hotspot)	

Applicable Standards**FCC 47 CFR part 2.1093**

Radiation exposure evaluation: portable devices

RF Exposure Procedures: TCB Workshop April 2019**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 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 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.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2504V67579E-SA	Original Report	2025-10-19

EUT DESCRIPTION

This report has been prepared on behalf of **ONYX INTERNATIONAL INC.** and their product **Mobile ePaper, Mobile E ink, Mobile Color ePaper, Mobile Color E ink, Mobile eReader**, Model: **Palma 2 Pro, BOOX Palma 2 Lite, BOOX Palma 2 Plus, BOOX Palma 2 C, BOOX Palma 2 Color**, FCC ID: **XR3-PALMA2PRO**. Only differ in model name. Please refer to DOS letter for more detail. The applicant provided model "**Palma 2 Pro**" for testing.

Note: The Multiple models are electrically identical with the test model except for model name and sales channels. Please refer to the declaration letter# for more detail, which was provided by manufacturer.

Technical Specification

Device Type:	Portable
Exposure Category:	Population/Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	None
Proximity Sensor:	Not enabled
Carrier Aggregation:	None
EN-DC possible combinations:	None EN-DC possible combinations
Operation Modes:	GPRS/EDGE Data, WCDMA, LTE, 5G NR, WLAN, Bluetooth/BLE
Operation Frequency:	GSM 850:824-849MHz(TX);869-894MHz(RX) GSM 1900:1850-1910MHz(TX);1930-1990MHz(RX) WCDMA Band 2:1850-1910MHz(TX);1930-1990MHz(RX) WCDMA Band 4:1710-1755MHz(TX);2110-2155MHz(RX) WCDMA Band 5:824-849MHz(TX);869-894MHz(RX) LTE Band 2:1850-1910MHz(TX);1930-1990MHz(RX) LTE Band 4:1710-1755MHz(TX);2110-2155MHz(RX) LTE Band 7:2500-2570MHz(TX);2620-2690MHz(RX) LTE Band 41:2496-2690MHz(TX);2496-2690MHz(RX) 5G NR Band 66: 1710-1780MHz(TX); 2110-2200MHz(RX) 5G NR Band 71: 663-698MHz(TX); 617-652MHz(RX) WIFI 2.4G:2412-2462MHz(TX/RX) WIFI 5.2G:5150-5250MHz(TX/RX) WIFI 5.3G:5250-5350MHz(TX/RX) WIFI 5.6G:5470-5725MHz(TX/RX) WIFI 5.8G:5725-5850MHz(TX/RX) Bluetooth:2402-2480MHz(TX/RX) BLE:2402-2480MHz(TX/RX)
Rated Input Voltage:	DC 3.87V from Rechargeable Battery
Dimensions (L*W*H):	162mm (L) *80mm (W) *9mm (H) (The overall diagonal length: 174mm) *All models are the same size
Serial Number:	35PV-1
Normal Operation:	Head and 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.

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)	1.6	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 maybe 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.

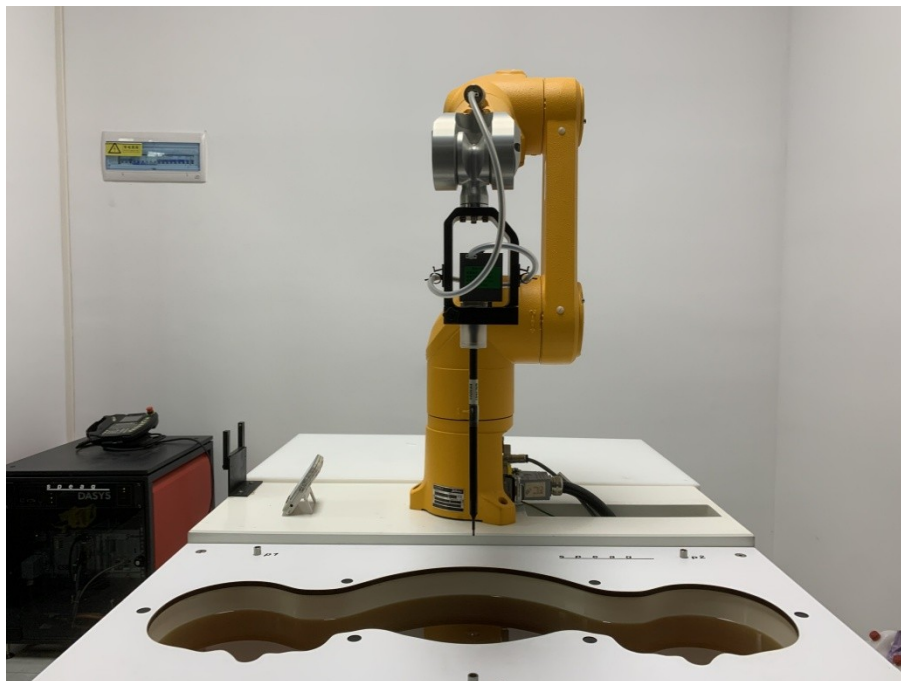
FACILITIES

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01.

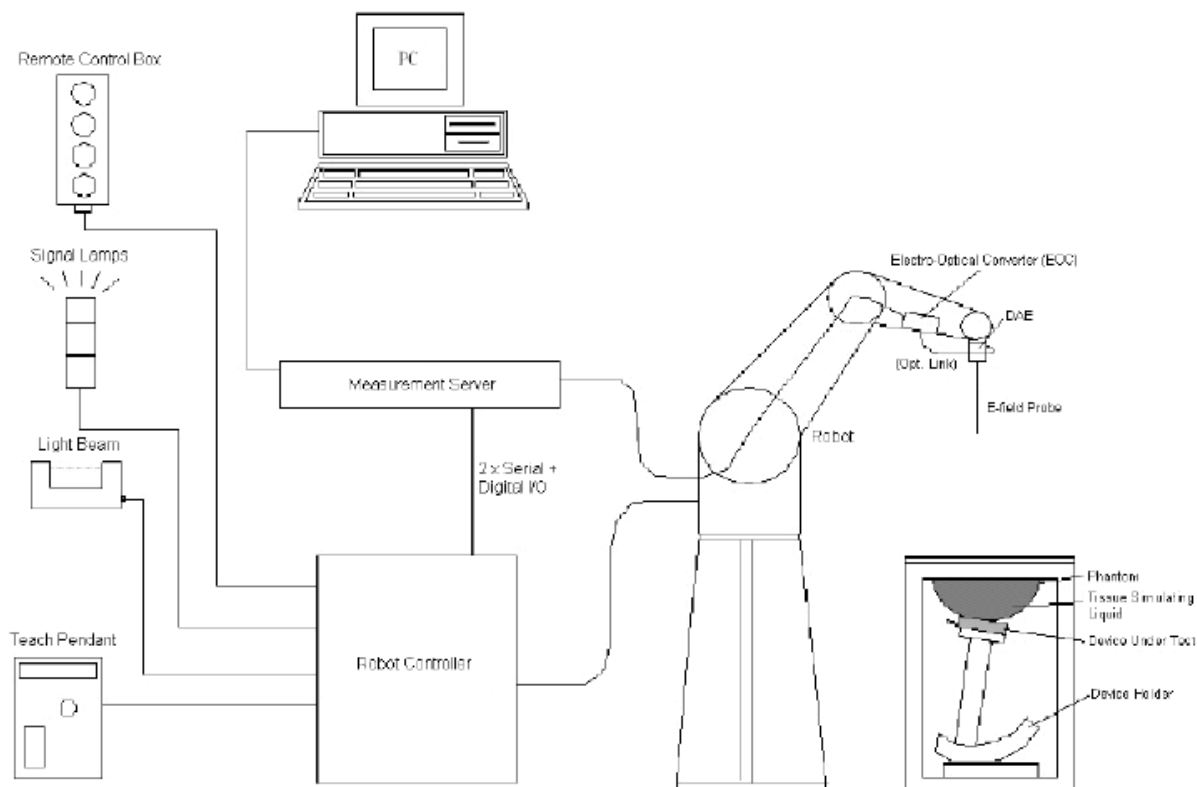
DESCRIPTION OF TEST SYSTEM

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 (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.

DASY5 Measurement Server

The DASY5 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 200M Ω ; 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 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/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

SAM Twin Phantom

The SAM Twin Phantom (shown in front of DASY5) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm.

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

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 3701 Calibrated: 2024/10/17

Calibration Frequency Point (MHz)	Frequency Range (MHz)		Conversion Factor		
	From	To	X	Y	Z
750 Head	650	850	9.47	9.47	9.47
900 Head	850	1000	9.06	9.06	9.06
1750 Head	1650	1850	8	8	8
1900 Head	1850	2000	7.65	7.65	7.65
2300 Head	2200	2400	7.45	7.45	7.45
2450 Head	2400	2550	7.2	7.2	7.2
2600 Head	2550	2700	7.06	7.06	7.06
5250 Head	5140	5360	5.36	5.36	5.36
5600 Head	5490	5700	4.75	4.75	4.75
5750 Head	5700	5860	4.87	4.87	4.87

SAR Scan Procedures**Step 1: Power Reference Measurement**

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: 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 15mm² 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.

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ 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.	

Step 3: 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/m³ 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

Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1) \text{ mm}$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

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 $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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 IEEE1528:2013

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.

EQUIPMENT LIST AND CALIBRATION

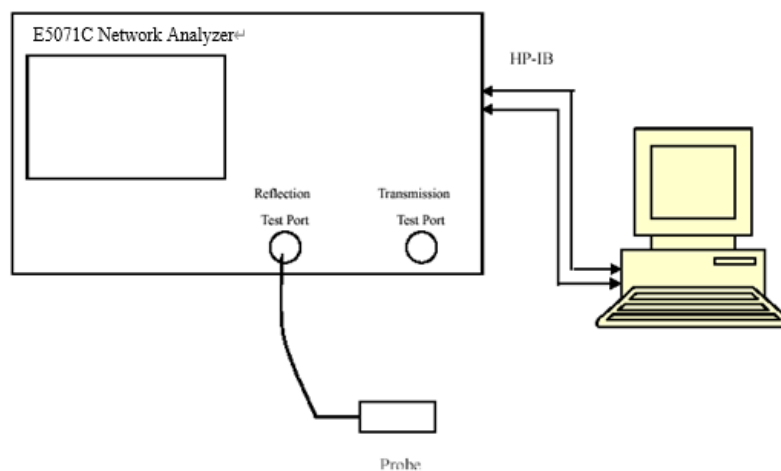
Equipment's List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.4	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 6.0.31	N/A	NCR	NCR
Data Acquisition Electronics	DAE4	1562	2024/12/31	2025/12/30
E-Field Probe	EX3DV4	3701	2024/10/17	2025/10/16
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
SAM Twin Phantom	SAM-Twin V5.0	1744	NCR	NCR
Dipole,750MHz	D750V3	1194	2023/2/17	2026/2/16
Dipole, 1800MHz	D1800V2	2d018	2023/9/26	2026/9/25
Dipole, 1900MHz	D1900V2	5d128	2024/12/02	2027/12/01
Dipole,2450MHz	D2450V2	751	2023/09/26	2026/09/25
Dipole,2600MHz	D2600V2	1073	2023/02/17	2026/02/16
Dipole,5GHz	D5GHzV2	1301	2023/02/16	2026/02/15
Simulated Tissue Liquid Head(500-9500MHz)	HBBL600-10000V6	220406-1	Each Time	/
Network Analyzer	E5071B	MY42403851	2024/10/08	2025/10/07
Wideband Radio Communication Tester	CMW500	110566	2024/10/08	2025/10/07
UXM 5G Wireless Test Platform	E7515B	MY58120462	2025/08/28	2026/08/27
Dielectric Assessment Kit	DAK-3.5	1320	NCR	NCR
Signal Generator	N5183A	MY47420360	2025/08/28	2026/08/27
Power Sensor	E9301A	MY55270006	2024/10/08	2025/10/07
Power Amplifier(80 – 1000MHz)	CBA 1G-070	T44328	2024/10/08	2025/10/07
Linear Power Amplifier (1 – 6GHz)	AS0860-40/45	1060913	2024/10/08	2025/10/07
Directional Coupler	4226-20	3315	2024/10/08	2025/10/07
6dB Attenuator	WA59-6-33	A329	NCR	NCR
Spectrum Analyzer	FSV40	101949	2024/10/08	2025/10/07
Thermometer	DTM3000	N/A	2024/10/10	2025/10/09
Temperature & Humidity Meter	10316377	N/A	2024/10/10	2025/10/09

NCR: No Calibration Required.

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)	$\Delta\epsilon_r$	$\Delta\sigma'$ (S/m)	
673	Simulated Tissue Liquid Head	42.578	0.903	42.31	0.88	0.63	2.61	±5
680.5	Simulated Tissue Liquid Head	43.325	0.877	42.27	0.89	2.5	-1.46	±5
688	Simulated Tissue Liquid Head	42.611	0.862	42.23	0.89	0.9	-3.15	±5
750	Simulated Tissue Liquid Head	42.898	0.913	41.90	0.89	2.38	2.58	±5
824.2	Simulated Tissue Liquid Head	43.155	0.897	41.55	0.90	3.86	-0.33	±5
826.4	Simulated Tissue Liquid Head	42.931	0.892	41.54	0.90	3.35	-0.89	±5
829	Simulated Tissue Liquid Head	42.957	0.896	41.53	0.90	3.44	-0.44	±5
836.5	Simulated Tissue Liquid Head	43.016	0.898	41.50	0.90	3.65	-0.22	±5
836.6	Simulated Tissue Liquid Head	42.849	0.901	41.50	0.90	3.25	0.11	±5
844	Simulated Tissue Liquid Head	42.922	0.891	41.50	0.91	3.43	-2.09	±5
846.6	Simulated Tissue Liquid Head	42.797	0.892	41.50	0.91	3.13	-1.98	±5
848.8	Simulated Tissue Liquid Head	42.935	0.894	41.50	0.91	3.46	-1.76	±5

*Liquid Verification above was performed on 2025/09/06

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ' (S/m)	ϵ_r	σ' (S/m)	$\Delta\epsilon_r$	$\Delta\sigma'$ (S/m)	
1712.4	Simulated Tissue Liquid Head	41.569	1.356	40.13	1.35	3.59	0.44	±5
1720	Simulated Tissue Liquid Head	41.489	1.351	40.13	1.35	3.39	0.07	±5
1730	Simulated Tissue Liquid Head	41.638	1.352	40.12	1.36	3.78	-0.59	±5
1732.5	Simulated Tissue Liquid Head	41.558	1.341	40.12	1.36	3.58	-1.4	±5
1732.6	Simulated Tissue Liquid Head	41.373	1.345	40.12	1.36	3.12	-1.1	±5
1745	Simulated Tissue Liquid Head	41.529	1.326	40.10	1.37	3.56	-3.21	±5
1752.6	Simulated Tissue Liquid Head	41.524	1.333	40.09	1.37	3.58	-2.7	±5
1760	Simulated Tissue Liquid Head	41.226	1.327	40.06	1.38	2.91	-3.84	±5
1800	Simulated Tissue Liquid Head	41.824	1.402	40.00	1.40	4.56	0.14	±5

*Liquid Verification above was performed on 2025/09/07

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ' (S/m)	ϵ_r	σ' (S/m)	$\Delta\epsilon_r$	$\Delta\sigma'$ (S/m)	
1850.2	Simulated Tissue Liquid Head	40.542	1.409	40.00	1.40	1.36	0.64	±5
1852.4	Simulated Tissue Liquid Head	40.697	1.405	40.00	1.40	1.74	0.36	±5
1860	Simulated Tissue Liquid Head	40.619	1.397	40.00	1.40	1.55	-0.21	±5
1880	Simulated Tissue Liquid Head	40.965	1.382	40.00	1.40	2.41	-1.29	±5
1900	Simulated Tissue Liquid Head	41.037	1.357	40.00	1.40	2.59	-3.07	±5
1907.6	Simulated Tissue Liquid Head	40.808	1.351	40.00	1.40	2.02	-3.5	±5
1909.8	Simulated Tissue Liquid Head	40.861	1.353	40.00	1.40	2.15	-3.36	±5

*Liquid Verification above was performed on 2025/09/08

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ' (S/m)	ϵ_r	σ' (S/m)	$\Delta\epsilon_r$	$\Delta\sigma'$ (S/m)	
2412	Simulated Tissue Liquid Head	39.968	1.729	39.28	1.77	1.75	-2.32	±5
2437	Simulated Tissue Liquid Head	40.151	1.763	39.23	1.79	2.35	-1.51	±5
2450	Simulated Tissue Liquid Head	40.338	1.779	39.20	1.80	2.9	-1.17	±5
2462	Simulated Tissue Liquid Head	40.048	1.778	39.18	1.81	2.22	-1.77	±5
2506	Simulated Tissue Liquid Head	39.381	1.797	39.13	1.86	0.64	-3.39	±5
2510	Simulated Tissue Liquid Head	39.342	1.801	39.12	1.86	0.57	-3.17	±5
2535	Simulated Tissue Liquid Head	39.416	1.819	39.09	1.89	0.83	-3.76	±5
2549.5	Simulated Tissue Liquid Head	39.244	1.829	39.07	1.91	0.45	-4.24	±5
2560	Simulated Tissue Liquid Head	39.334	1.864	39.05	1.92	0.73	-2.92	±5
2580	Simulated Tissue Liquid Head	39.431	1.918	39.03	1.94	1.03	-1.13	±5
2593	Simulated Tissue Liquid Head	39.486	1.953	39.01	1.95	1.22	0.15	±5
2595	Simulated Tissue Liquid Head	39.407	1.959	39.01	1.95	1.02	0.46	±5
2600	Simulated Tissue Liquid Head	39.477	1.971	39.00	1.96	1.22	0.56	±5
2610	Simulated Tissue Liquid Head	39.352	1.964	38.99	1.97	0.93	-0.3	±5
2636.5	Simulated Tissue Liquid Head	39.426	1.959	38.95	2.00	1.22	-2.05	±5

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ' (S/m)	ϵ_r	σ' (S/m)	$\Delta\epsilon_r$	$\Delta\sigma'$ (S/m)	
2680	Simulated Tissue Liquid Head	39.821	2.047	38.90	2.05	2.37	-0.15	±5

*Liquid Verification above was performed on 2025/09/09

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ' (S/m)	ϵ_r	σ' (S/m)	$\Delta\epsilon_r$	$\Delta\sigma'$ (S/m)	
5180	Simulated Tissue Liquid Head	36.797	4.631	36.02	4.64	2.16	-0.19	±5
5190	Simulated Tissue Liquid Head	36.687	4.532	36.00	4.64	1.91	-2.33	±5
5200	Simulated Tissue Liquid Head	37.461	4.766	36.00	4.66	4.06	2.27	±5
5230	Simulated Tissue Liquid Head	36.995	4.671	35.95	4.69	2.91	-0.41	±5
5240	Simulated Tissue Liquid Head	37.096	4.593	35.96	4.70	3.16	-2.28	±5
5250	Simulated Tissue Liquid Head	36.861	4.552	35.95	4.71	2.53	-3.35	±5
5260	Simulated Tissue Liquid Head	37.048	4.574	35.94	4.72	3.08	-3.09	±5
5270	Simulated Tissue Liquid Head	36.943	4.612	35.91	4.73	2.88	-2.49	±5
5300	Simulated Tissue Liquid Head	37.366	4.613	35.87	4.76	4.17	-3.09	±5
5310	Simulated Tissue Liquid Head	37.062	4.615	35.86	4.77	3.35	-3.25	±5
5320	Simulated Tissue Liquid Head	37.239	4.756	35.88	4.78	3.79	-0.5	±5
5500	Simulated Tissue Liquid Head	36.884	5.062	35.65	4.97	3.46	1.85	±5
5510	Simulated Tissue Liquid Head	36.082	5.145	35.63	4.97	1.27	3.52	±5
5550	Simulated Tissue Liquid Head	36.326	4.864	35.53	5.05	2.24	-3.68	±5
5580	Simulated Tissue Liquid Head	36.529	4.961	35.53	5.05	2.81	-1.76	±5
5600	Simulated Tissue Liquid Head	36.487	5.039	35.50	5.07	2.78	-0.61	±5
5670	Simulated Tissue Liquid Head	36.137	5.338	35.45	5.14	1.94	3.85	±5
5745	Simulated Tissue Liquid Head	36.911	5.144	35.36	5.22	4.39	-1.46	±5
5750	Simulated Tissue Liquid Head	36.801	5.151	35.35	5.22	4.1	-1.32	±5
5755	Simulated Tissue Liquid Head	36.211	5.356	35.35	5.22	2.44	2.61	±5
5785	Simulated Tissue Liquid Head	36.752	5.288	35.32	5.26	4.05	0.53	±5
5795	Simulated Tissue Liquid Head	36.053	5.378	35.31	5.26	2.1	2.24	±5
5825	Simulated Tissue Liquid Head	36.387	5.235	35.28	5.30	3.14	-1.23	±5

*Liquid Verification above was performed on 2025/09/10

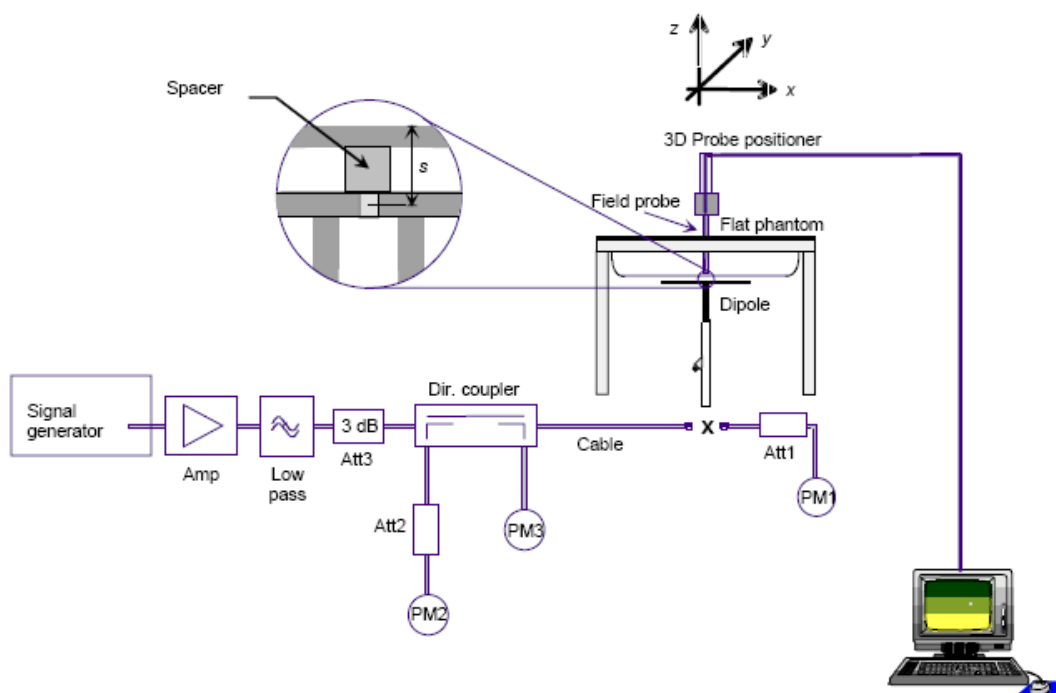
System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. 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:

- $s = 15 \text{ mm} \pm 0,2 \text{ mm}$ for $300 \text{ MHz} \leq f \leq 1\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $1\,000 \text{ MHz} < f \leq 6\,000 \text{ MHz}$;

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band (MHz)	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/Kg)	Delta (%)	Tolerance (%)
2025/09/06	750	Head	100	1g	0.793	7.93	8.57	-7.468	± 10
2025/09/07	1800	Head	100	1g	3.68	36.8	39.3	-6.361	± 10
2025/09/08	1900	Head	100	1g	4.35	43.5	40.1	8.479	± 10
2025/09/09	2450	Head	100	1g	5.21	52.1	53.1	-1.883	± 10
2025/09/09	2600	Head	100	1g	5.27	52.7	56.8	-7.218	± 10
2025/09/10	5250	Head	100	1g	7.64	76.4	77.7	-1.673	± 10
2025/09/10	5600	Head	100	1g	8.76	87.6	81.6	7.353	± 10
2025/09/10	5750	Head	100	1g	7.73	77.3	78.0	-0.897	± 10

Note:

All the SAR values are normalized to 1Watt forward power.

SAR SYSTEM VALIDATION DATA

System Performance 750 MHz Head

DUT: Dipole 750MHz; Type: D750V3; Serial: 1194

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 42.898$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(9.47, 9.47, 9.47) @750 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1562; Calibrated: 2024/12/31
- Phantom: Twin SAM; Type: QD000P40CD; Serial: 1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (8x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.791 W/kg

Zoom Scan (7x7x7) /Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.62 V/m ; Power Drift = -0.13 dB

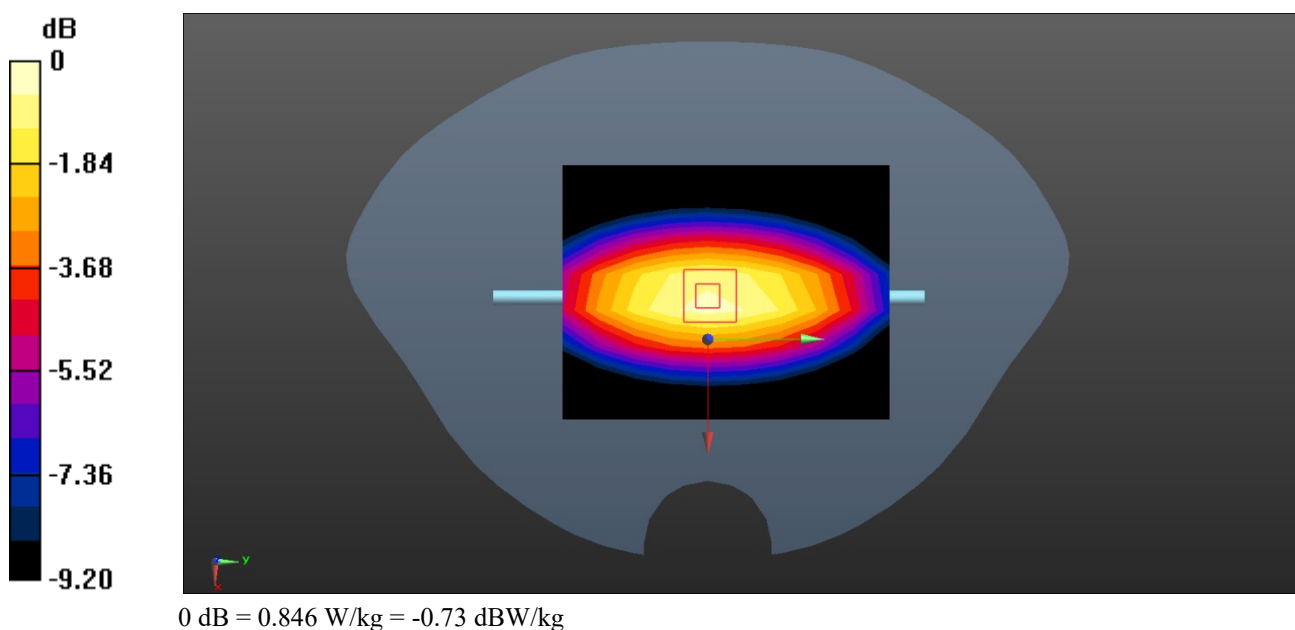
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.793 W/kg ; SAR(10 g) = 0.530 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 43.4%

Maximum value of SAR (measured) = 0.846 W/kg



System Performance 1800 MHz Head**DUT: Dipole 1800MHz; Type: D1800V2; Serial: 2d018**

Communication System: CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.402$ S/m; $\epsilon_r = 41.824$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(8, 8, 8) @1800 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1562; Calibrated: 2024/12/31
- Phantom: Twin SAM; Type: QD000P40CD; Serial: 1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (10x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 4.98 W/kg

Zoom Scan (7x7x7) /Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.36 V/m; Power Drift = 0.17 dB

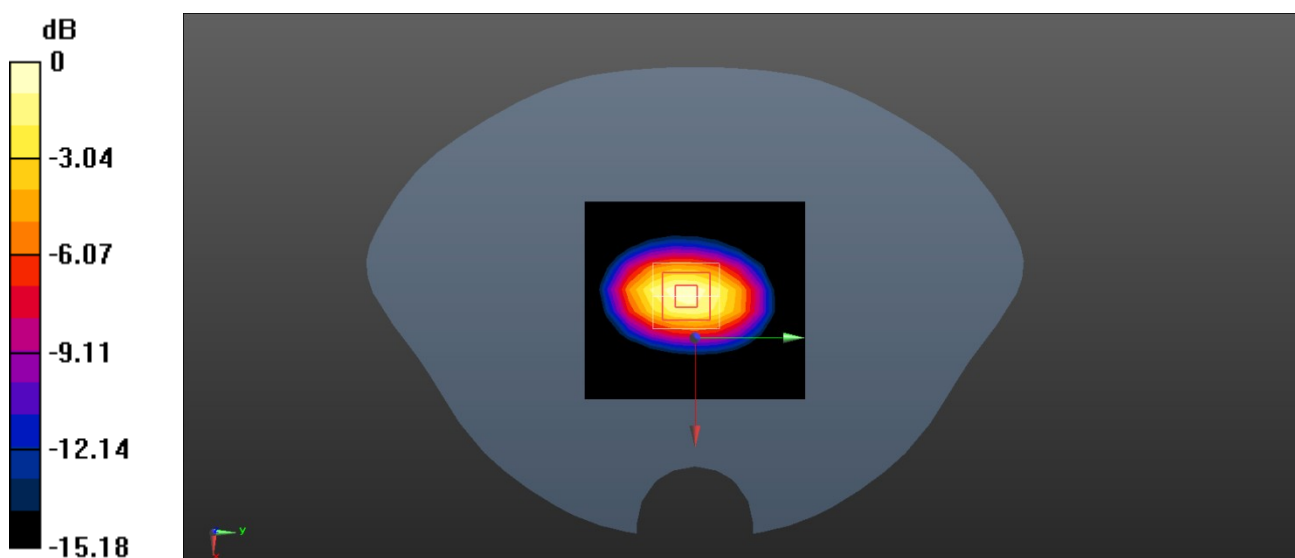
Peak SAR (extrapolated) = 6.14 W/kg

SAR(1 g) = 3.68 W/kg; SAR(10 g) = 2.05 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 5.03 W/kg



System Performance 1900 MHz Head**DUT: Dipole 1900MHz; Type: D1900V2; Serial: 5d128**

Communication System: CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 41.037$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(7.65, 7.65, 7.65) @1900 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1562; Calibrated: 2024/12/31
- Phantom: Twin SAM; Type: QD000P40CD; Serial: 1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 6.45 W/kg

Zoom Scan (7x7x7) /Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.82 V/m; Power Drift = 0.02 dB

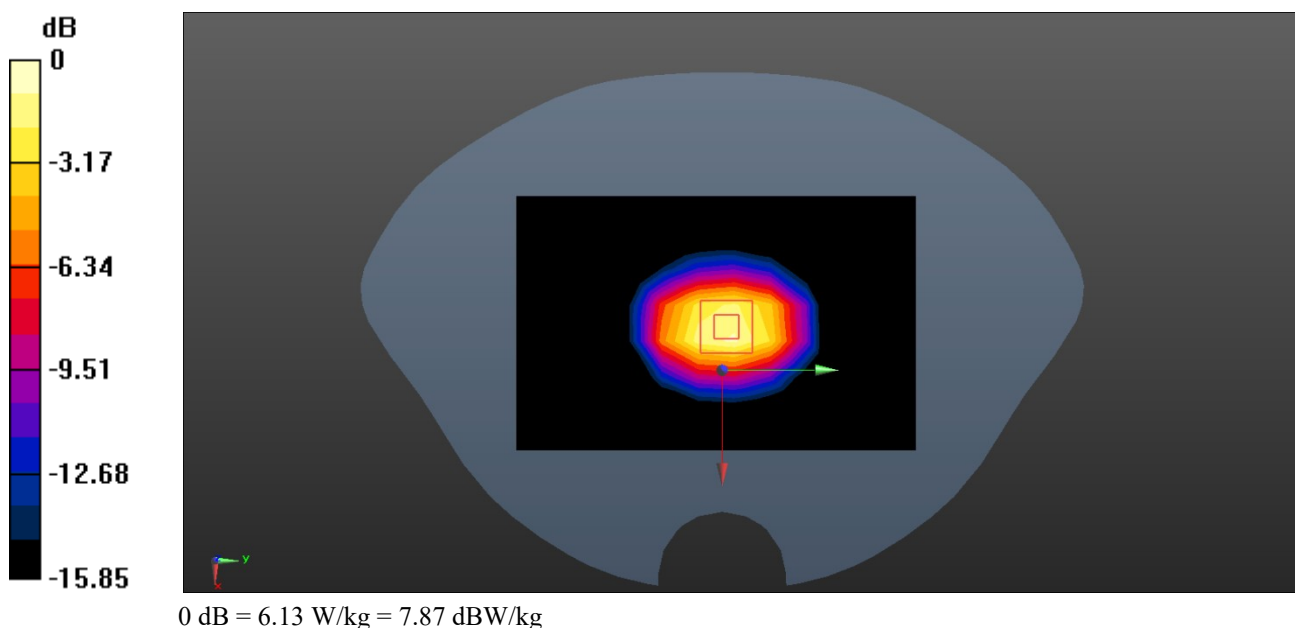
Peak SAR (extrapolated) = 7.75 W/kg

SAR(1 g) = 4.35 W/kg; SAR(10 g) = 2.23 W/kg

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 68.1%

Maximum value of SAR (measured) = 6.13 W/kg



System Performance 2450 MHz Head**DUT: Dipole 2450MHz; Type: D2450V2; Serial: 751**

Communication System: CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.779$ S/m; $\epsilon_r = 40.338$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(7.2, 7.2, 7.2) @2450 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1562; Calibrated: 2024/12/31
- Phantom: Twin SAM; Type: QD000P40CD; Serial: 1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (11x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 7.91 W/kg

Zoom Scan (7x7x7) /Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.45 V/m; Power Drift = 0.11 dB

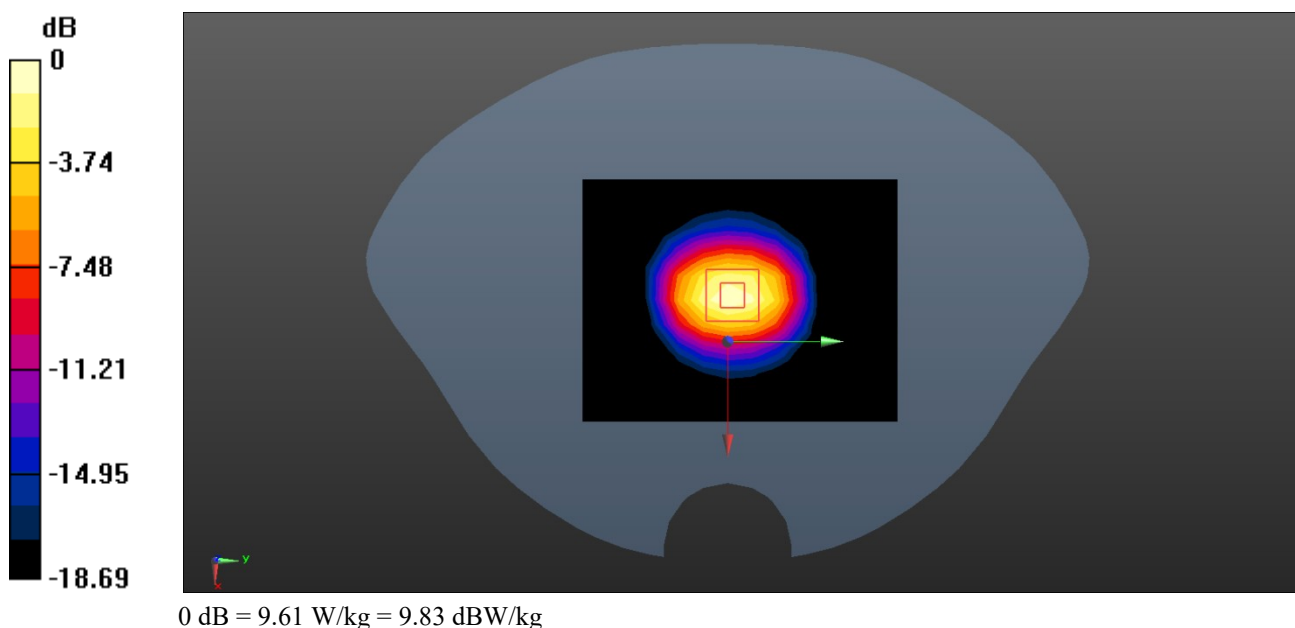
Peak SAR (extrapolated) = 12.18 W/kg

SAR(1 g) = 5.21 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 5.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.38%

Maximum value of SAR (measured) = 9.61 W/kg



System Performance 2600 MHz Head**DUT: Dipole 2600MHz; Type: D2600V2; Serial: 1073**

Communication System: CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.971$ S/m; $\epsilon_r = 39.477$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(7.06, 7.06, 7.06) @2600 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1562; Calibrated: 2024/12/31
- Phantom: Twin SAM; Type: QD000P40CD; Serial: 1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (11x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 8.29 W/kg

Zoom Scan (7x8x7) /Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.12 V/m; Power Drift = 0.05 dB

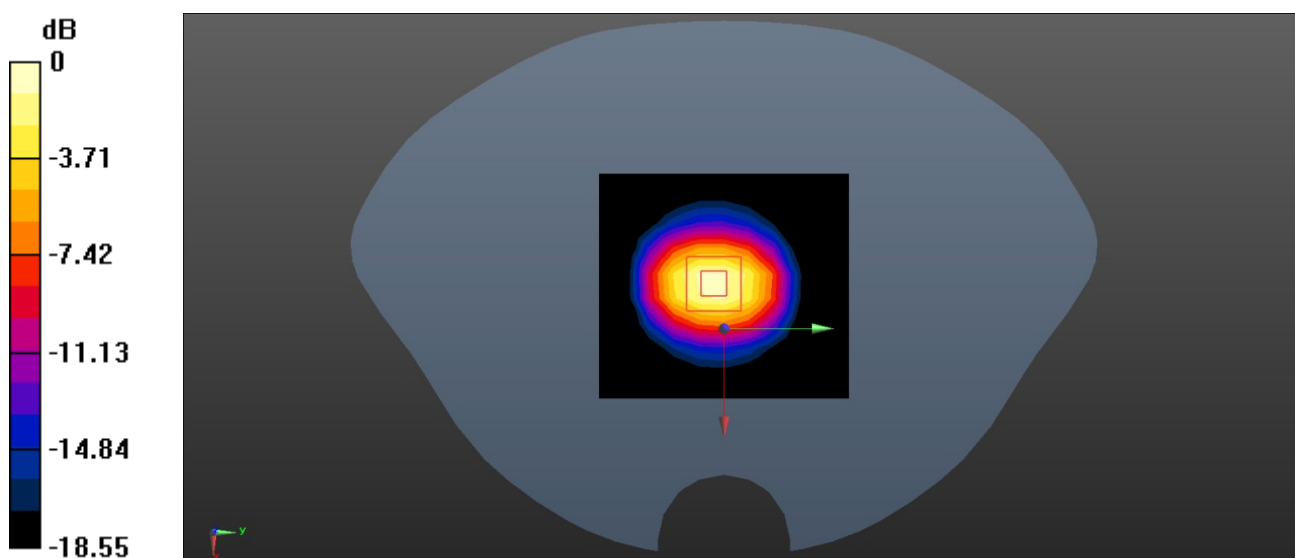
Peak SAR (extrapolated) = 6.74 W/kg

SAR(1 g) = 5.27 W/kg; SAR(10 g) = 2.72 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 70.5%

Maximum value of SAR (measured) = 6.37 W/kg



0 dB = 6.37 W/kg = 8.04 dBW/kg

System Performance 5250 MHz Head**DUT: Dipole 5GHz; Type: D5GHzV2; Serial: 1301**

Communication System: CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.552$ S/m; $\epsilon_r = 36.861$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(5.36, 5.36, 5.36) @5250 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1562; Calibrated: 2024/12/31
- Phantom: Twin SAM; Type: QD000P40CD; Serial: 1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 21.11 W/kg

Zoom Scan (8x8x12) /Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 46.38 V/m; Power Drift = 0.13 dB

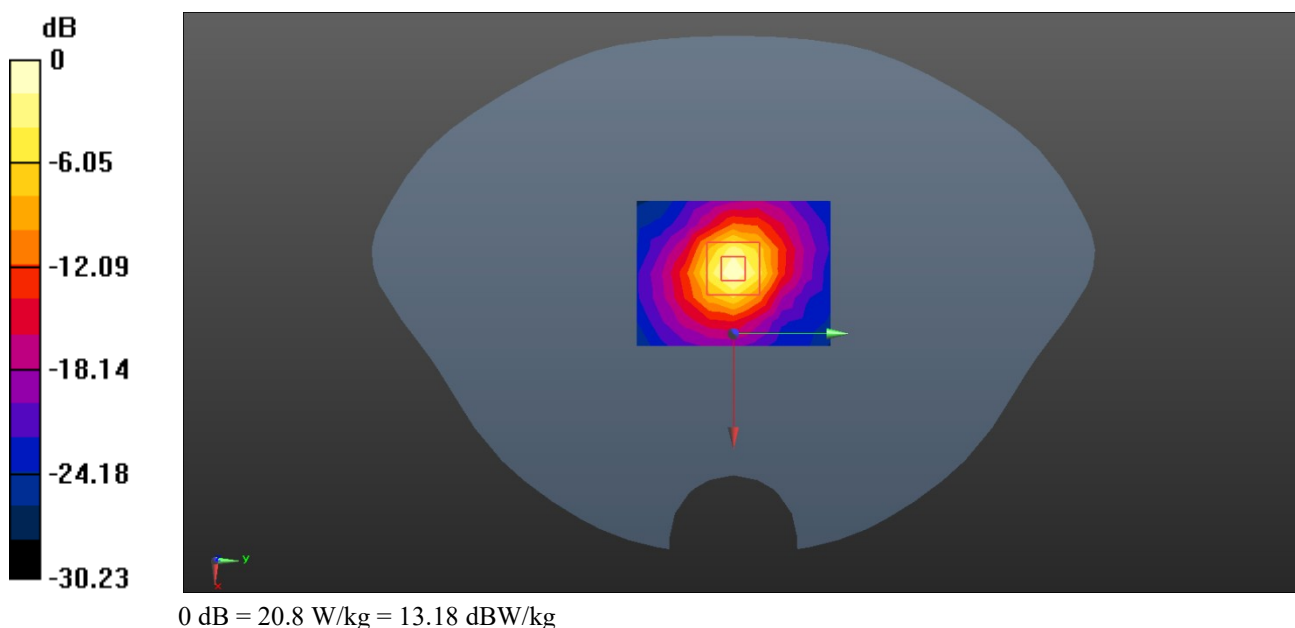
Peak SAR (extrapolated) = 29.31 W/kg

SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 4.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.31%

Maximum value of SAR (measured) = 20.8 W/kg



System Performance 5600 MHz Head**DUT: Dipole 5GHz; Type: D5GHzV2; Serial: 1301**

Communication System: CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.039$ S/m; $\epsilon_r = 36.487$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(4.75, 4.75, 4.75) @ 5600 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1562; Calibrated: 2024/12/31
- Phantom: Twin SAM; Type: QD000P40CD; Serial: 1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 23.12 W/kg

Zoom Scan (8x8x15) /Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.68 V/m; Power Drift = 0.08 dB

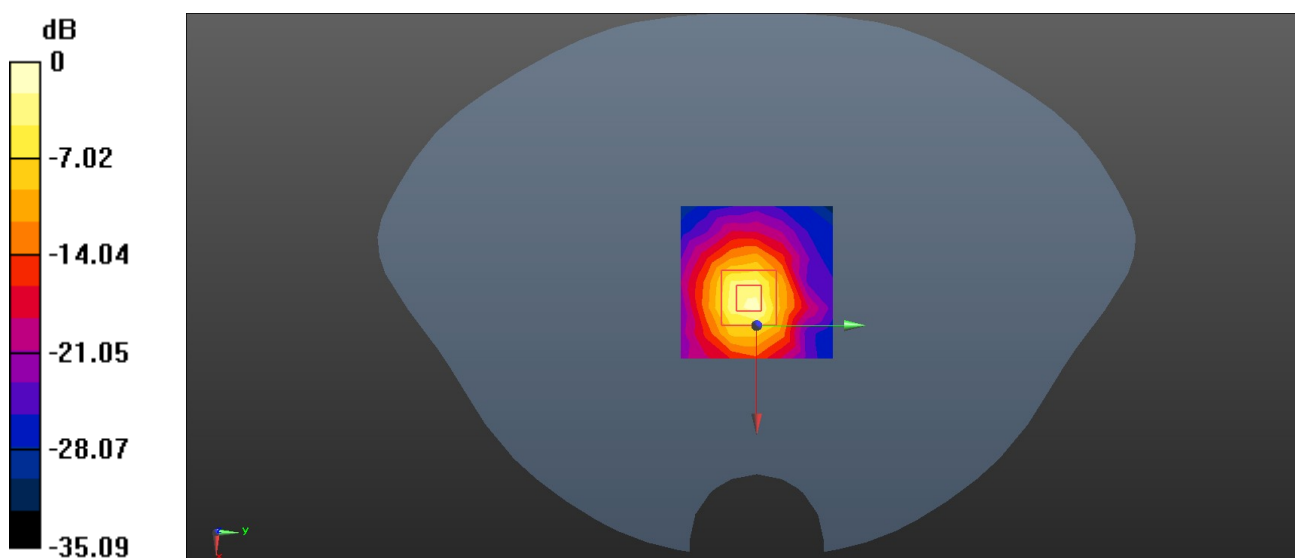
Peak SAR (extrapolated) = 31.34 W/kg

SAR(1 g) = 8.76 W/kg; SAR(10 g) = 2.32 W/kg

Smallest distance from peaks to all points 3 dB below = 5.9 mm

Ratio of SAR at M2 to SAR at M1 = 77.45%

Maximum value of SAR (measured) = 20.6 W/kg



0 dB = 20.6 W/kg = 13.14 dBW/kg

System Performance 5750 MHz Head**DUT: Dipole 5GHz; Type: D5GHzV2; Serial: 1301**

Communication System: CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.151$ S/m; $\epsilon_r = 36.801$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(4.87, 4.87, 4.87) @5750 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1562; Calibrated: 2024/12/31
- Phantom: Twin SAM; Type: QD000P40CD; Serial: 1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.53 W/kg

Zoom Scan (8x8x12) /Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.89 V/m; Power Drift = 0.16 dB

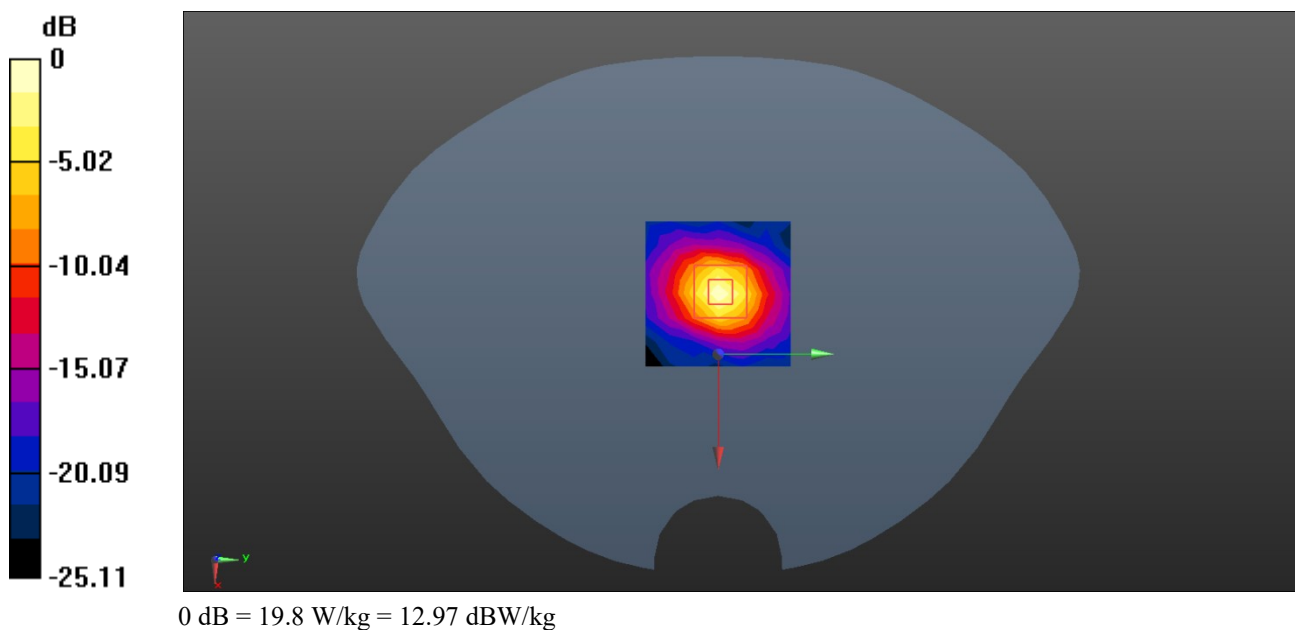
Peak SAR (extrapolated) = 36.75 W/kg

SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 61.23%

Maximum value of SAR (measured) = 19.8 W/kg

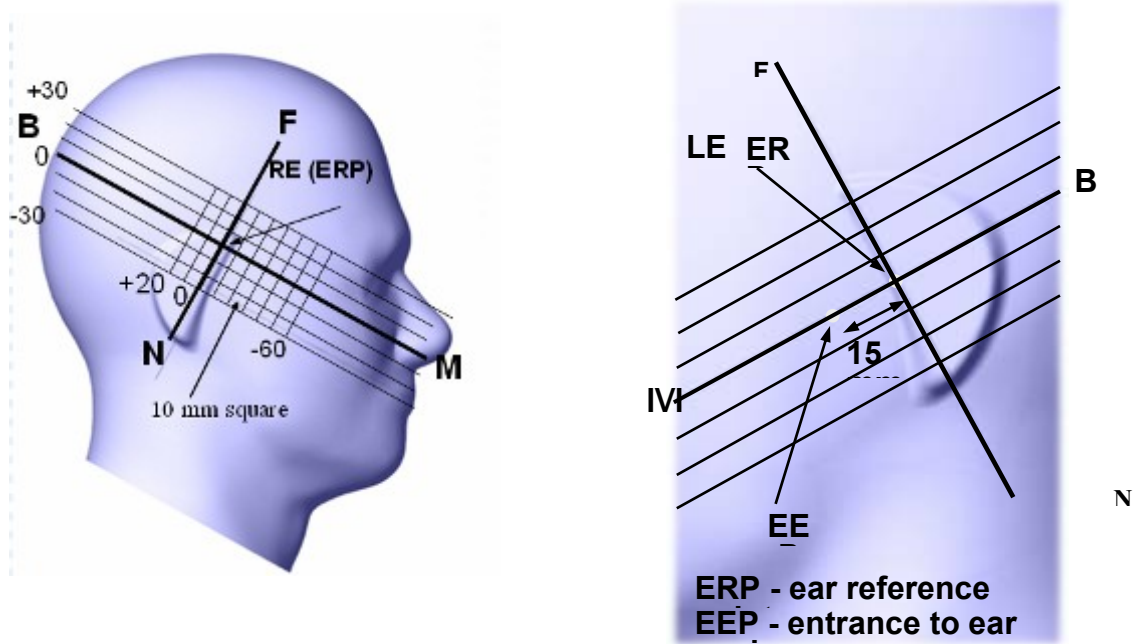


EUT TEST STRATEGY AND METHODOLOGY

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 $\frac{1}{4}$ 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.

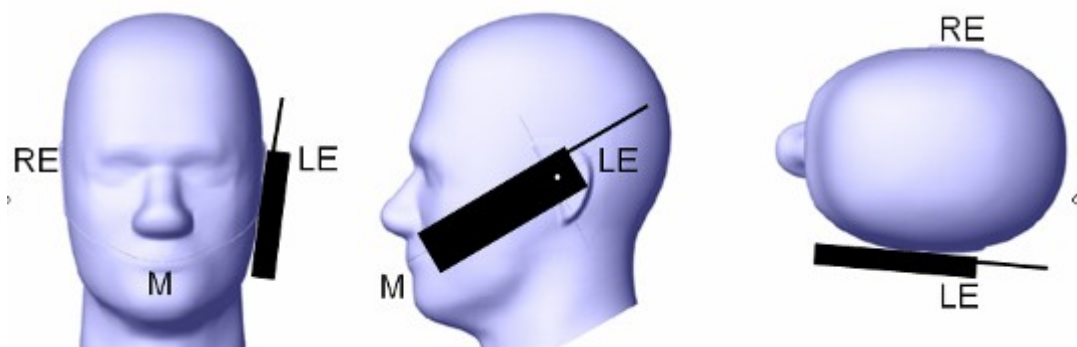
A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim 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

1. 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.
2. This test position is established:
3. When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.
4. (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.
5. 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

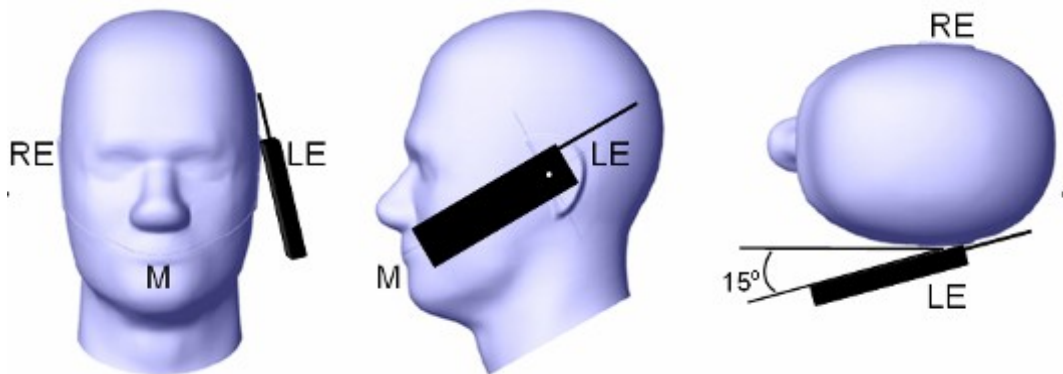
With the handset aligned in the “Cheek/Touch Position”:

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.

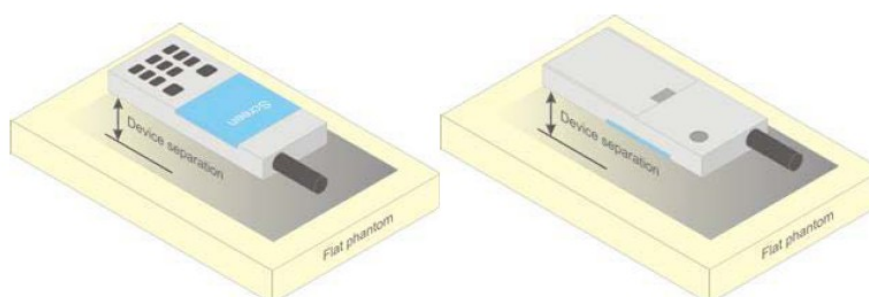


Figure 5 – Test positions for body-worn devices

Test Distance for SAR Evaluation

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

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.

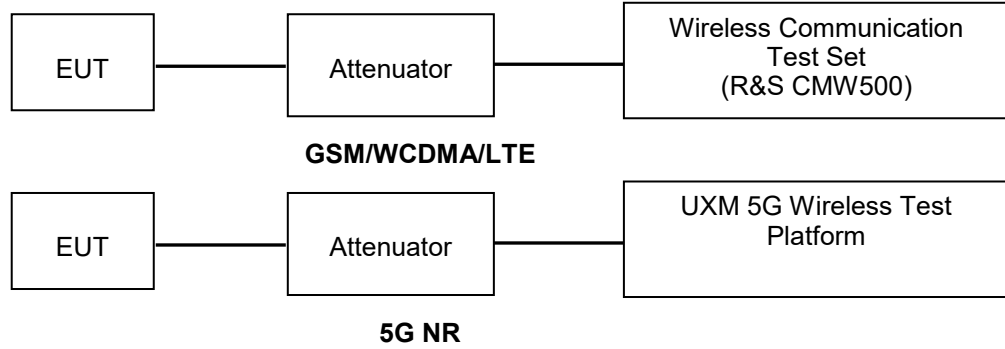
All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

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.

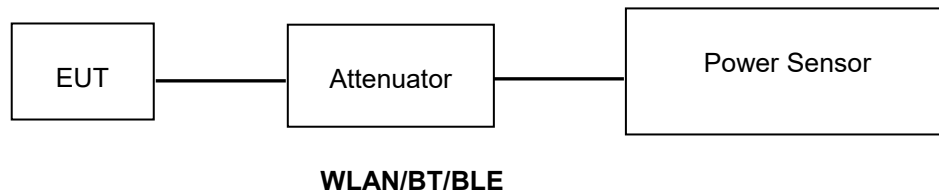
CONDUCTED OUTPUT POWER MEASUREMENT

Test Procedure

The RF output of the transmitter was connected to the input of the Wireless Communication Test Set through Attenuator.



The RF output of the transmitter was connected to the input port of the Power Sensor through Attenuator



Description of Test Configuration

EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in each operation mode.
Equipment Modifications:	No
EUT Exercise Software:	No

GSM/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 > GSM + GPRS or GSM + EGSM

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 stable)

BCCH Channel > choose desired 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

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
	$\beta_d(SF)$	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			
	$A_{hs}=\beta_{hs}/\beta_c$	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				
	$A_{hs} = \beta_{hs} / \beta_c$	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_FCI's	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

HSPA+

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

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34.121-1

FDD-LTE

For UE Power Class 1 and 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2-1 due 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
NS_05	6.6.3.3.1	1	10, 15, 20	Table 6.2.4-4	
NS_06	6.6.2.2.3	12, 13, 14, 17	10, 15, 20	≥ 50	≤ 1
NS_07	6.6.2.2.3 6.6.3.3.2	13	1.4, 3, 5, 10	Table 5.6-1	N/A
NS_08	6.6.3.3.3	19	10	Table 6.2.4-2	
NS_09	6.6.3.3.4	21	10, 15	> 44	≤ 3
				> 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

LTE TDD Band 41 supports 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	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
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

We used configuration 0 for LTE TDD SAR test, that is 63.33%(1:1.58)for duty cycle.

Maximum Target Output Power

Mode/Band	Max Target Power(dBm)		
	Channel		
	Low	Middle	High
GSM 850 GPRS 1 TX Slot	33	33	33
GSM 850 GPRS 2 TX Slot	31	31	31
GSM 850 GPRS 3 TX Slot	29	29	29
GSM 850 GPRS 4 TX Slot	28	28	28
GSM 850 EDGE 1 TX Slot	27.5	27.5	27.5
GSM 850 EDGE 2 TX Slot	25	25	25
GSM 850 EDGE 3 TX Slot	23	23	23
GSM 850 EDGE 4 TX Slot	22	22	22
PCS 1900 GPRS 1 TX Slot	30	30	30
PCS 1900 GPRS 2 TX Slot	28	28	28
PCS 1900 GPRS 3 TX Slot	26.5	26.5	26.5
PCS 1900 GPRS 4 TX Slot	25	25	25
PCS 1900 EDGE 1 TX Slot	27	27	27
PCS 1900 EDGE 2 TX Slot	24	24	24
PCS 1900 EDGE 3 TX Slot	22	22	22
PCS 1900 EDGE 4 TX Slot	21	21	21
PCS 1900 WCDMA Band 2	23.5	23.5	23.5
HSDPA	23	23	23
HSUPA	23	23	23
HSPA+	23	23	23
WCDMA Band 4	23	23	23
HSDPA	22	22	22
HSUPA	22	22	22
HSPA+	22	22	22
WCDMA Band 5	23	23	23
HSDPA	22	22	22
HSUPA	22	22	22
HSPA+	22	22	22
LTE Band 2 1RB	23.5	23.5	23.5
LTE Band 2 50%RB	23.5	23.5	23.5
LTE Band 2 100%RB	23.5	23.5	23.5
LTE Band 4 1RB	23.5	23.5	23.5
LTE Band 4 50%RB	23.5	23.5	23.5
LTE Band 4 100%RB	23.5	23.5	23.5
LTE Band 7 1RB	23.5	23.5	23.5
LTE Band 7 50%RB	23.5	23.5	23.5
LTE Band 7 100%RB	23.5	23.5	23.5
LTE Band 41 1RB	23.5	23.5	23.5
LTE Band 41 50%RB	23.5	23.5	23.5
LTE Band 41 100%RB	23.5	23.5	23.5
5G NR n66 1RB	23.5	23.5	23.5
5G NR n66 50%RB	23.5	23.5	23.5
5G NR n66 100%RB	23.5	23.5	23.5
5G NR n71 1RB	24.1	24.1	24.1
5G NR n71 50%RB	24.1	24.1	24.1

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
5G NR n71 100%RB	24.1	24.1	24.1
WIFI 2.4G	13	13	13
WIFI 5.2G(802.11ac40)	14.5	/	14.5
WIFI 5.2G (802.11a/n20/n40/ac20/ac80)	14	14	14
WIFI 5.3G(802.11ac40)	13.5	/	13.5
WIFI 5.3G (802.11a/n20/n40/ac20/ac80)	13	13	13
WIFI 5.6G(802.11ac40)	14.7	14.7	14.7
WIFI 5.6G (802.11a/n20/n40/ac20)	14.5	14.5	14.5
WIFI 5.6G(802.11ac80)	14.5	13.5	13.5
WIFI 5.8G(802.11ac40)	13	/	13
WIFI 5.8G (802.11a/n20/n40/ac20/ac80)	12.5	12.5	12.5
BT(GFSK)	5	5	7
BT(π /4-DQPSK)	4	4	6
BT(8DPSK)	4	4	6.5
BLE	3.5	3.5	5

Note: The Maximum Target Power for LTE&5G NR band corresponds to their maximum power in QPSK modes with maximum bandwidth.

Test Results

GPRS:

Band	Channel No.	Frequency (MHz)	RF Conducted Power(dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	32.99	30.22	28.85	27.23
	190	836.6	32.95	30.29	28.78	27.15
	251	848.8	32.82	30.18	28.67	27.09
GSM 1900	512	1850.2	29.85	27.91	25.93	24.47
	661	1880	29.92	27.89	26.01	24.56
	810	1909.8	29.89	27.92	26.18	24.61

EDGE:

Band	Channel No.	Frequency (MHz)	RF Conducted Power(dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	26.74	24.34	22.30	21.01
	190	836.6	25.62	23.94	22.54	21.25
	251	848.8	27.13	24.08	22.01	20.53
GSM 1900	512	1850.2	25.97	23.07	20.45	19.92
	661	1880	26.14	23.28	21.16	20.83
	810	1909.8	25.87	23.79	21.35	20.21

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

Band	Channel No.	Frequency (MHz)	RF Conducted Power(dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	23.99	24.22	24.60	24.23
	190	836.6	23.95	24.29	24.53	24.15
	251	848.8	23.82	24.18	24.42	24.09
GSM 1900	512	1850.2	20.85	21.91	21.68	21.47
	661	1880	20.92	21.89	21.76	21.56
	810	1909.8	20.89	21.92	21.93	21.61

The time based average power for EDGE

Band	Channel No.	Frequency (MHz)	RF Conducted Power(dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	17.74	18.34	18.05	18.01
	190	836.6	16.62	17.94	18.29	18.25
	251	848.8	18.13	18.08	17.76	17.53
GSM 1900	512	1850.2	16.97	17.07	16.20	16.92
	661	1880	17.14	17.28	16.91	17.83
	810	1909.8	16.87	17.79	17.10	17.21

Note:

1. Rohde & Schwarz Radio Communication Tester (CMW500) 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. For EGPRS, 1, 2, 3 and 4 timeslots has been activated separately with power control level 6(850 MHz band) and 5(1900 MHz band).
4. According to KDB 941225 D01-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.

WCDMA:**WCDMA Band 2:**

Test Mode	Conducted Average Output Power(dBm)		
	Lowest Channel	Middle Channel	Highest Channel
WCDMA	23.29	23.34	23.38
HSDPA Subset 1	21.94	22.36	22.20
HSDPA Subset 2	21.97	22.29	22.44
HSDPA Subset 3	21.58	21.70	21.82
HSDPA Subset 4	21.59	21.82	21.85
HSUPA Subset 1	22.09	22.35	22.44
HSUPA Subset 2	21.56	21.71	21.80
HSUPA Subset 3	22.08	22.29	22.46
HSUPA Subset 4	21.51	21.74	21.78
HSUPA Subset 5	21.94	22.28	22.42
HSPA+ Subset 1	21.87	22.27	22.13

WCDMA Band 4:

Test Mode	Conducted Average Output Power(dBm)		
	Lowest Channel	Middle Channel	Highest Channel
WCDMA	22.79	22.82	22.76
HSDPA Subset 1	21.74	21.64	21.65
HSDPA Subset 2	21.87	21.77	21.87
HSDPA Subset 3	21.07	21.26	21.32
HSDPA Subset 4	21.28	21.34	21.19
HSUPA Subset 1	21.83	21.73	21.72
HSUPA Subset 2	21.25	21.17	21.29
HSUPA Subset 3	21.88	21.72	21.84
HSUPA Subset 4	21.41	21.47	21.28
HSUPA Subset 5	21.66	21.81	21.80
HSPA+ Subset 1	21.65	21.66	21.58

WCDMA Band 5:

Test Mode	Conducted Average Output Power(dBm)		
	Lowest Channel	Middle Channel	Highest Channel
WCDMA	22.68	22.65	22.52
HSDPA Subset 1	21.43	21.46	21.34
HSDPA Subset 2	21.58	21.56	21.40
HSDPA Subset 3	21.01	21.11	21.02
HSDPA Subset 4	21.08	21.05	21.01
HSUPA Subset 1	21.44	21.62	21.51
HSUPA Subset 2	21.02	21.07	21.08
HSUPA Subset 3	21.48	21.53	21.46
HSUPA Subset 4	21.35	21.27	21.43
HSUPA Subset 5	21.51	21.45	21.47
HSPA+ Subset 1	21.32	21.31	21.24

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 All 1.
2. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA/HSPA+ 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:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	23.13	23.26	23.10
		RB1#3	23.14	23.03	22.93
		RB1#5	23.03	23.04	23.05
		RB3#0	23.12	23.25	23.09
		RB3#1	23.13	23.02	22.92
		RB3#3	23.02	23.03	23.04
		RB6#0	22.71	22.89	22.73
	16QAM	RB1#0	21.68	21.80	21.65
		RB1#3	21.66	21.74	21.66
		RB1#5	21.62	21.80	21.64
		RB3#0	21.66	21.78	21.63
		RB3#1	21.64	21.72	21.64
		RB3#3	22.09	22.22	22.06
		RB6#0	22.10	21.99	21.89
3M	QPSK	RB1#0	23.06	23.07	23.08
		RB1#8	22.97	23.18	22.99
		RB1#14	22.86	23.01	22.92
		RB8#0	22.80	22.93	22.78
		RB8#4	22.74	22.92	22.76
		RB8#7	22.78	22.90	22.75
		RB15#0	22.76	22.84	22.76
	16QAM	RB1#0	21.60	21.73	21.65
		RB1#8	21.62	21.68	21.59
		RB1#14	21.54	21.70	21.59
		RB8#0	22.12	22.25	22.09
		RB8#4	22.13	22.02	21.92
		RB8#7	22.02	22.03	22.04
		RB15#0	21.93	22.14	21.95
5M	QPSK	RB1#0	22.89	23.04	22.95
		RB1#12	22.83	22.96	22.81
		RB1#24	22.77	22.95	22.79
		RB12#0	22.81	22.93	22.78
		RB12#7	22.79	22.87	22.79
		RB12#13	22.70	22.83	22.75
		RB25#0	22.72	22.78	22.69
	16QAM	RB1#0	21.57	21.73	21.62
		RB1#12	22.06	22.19	22.03
		RB1#24	22.07	21.96	21.86
		RB12#0	21.96	21.97	21.98
		RB12#7	22.05	22.18	22.02
		RB12#13	22.06	21.95	21.85
		RB25#0	21.95	21.96	21.97

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	23.21	23.34	23.18
		RB1#25	23.22	23.11	23.01
		RB1#49	23.11	23.12	23.13
		RB25#0	23.02	23.23	23.04
		RB25#12	22.91	23.06	22.97
		RB25#25	22.85	22.98	22.83
		RB50#0	22.79	22.97	22.81
	16QAM	RB1#0	21.76	21.88	21.73
		RB1#25	21.74	21.82	21.74
		RB1#49	21.65	21.78	21.70
		RB25#0	21.67	21.73	21.64
		RB25#12	21.59	21.75	21.64
		RB25#25	22.17	22.30	22.14
		RB50#0	22.18	22.07	21.97
15M	QPSK	RB1#0	23.14	23.15	23.16
		RB1#37	23.05	23.26	23.07
		RB1#74	22.94	23.09	23.00
		RB36#0	22.88	23.01	22.86
		RB36#20	22.82	23.00	22.84
		RB36#39	22.86	22.98	22.83
		RB75#0	22.84	22.92	22.84
	16QAM	RB1#0	21.68	21.81	21.73
		RB1#37	21.70	21.76	21.67
		RB1#74	21.62	21.78	21.67
		RB36#0	21.67	21.73	21.64
		RB36#20	21.59	21.75	21.64
		RB36#39	22.17	22.30	22.14
		RB75#0	22.12	22.24	22.09
20M	QPSK	RB1#0	23.35	23.43	23.39
		RB1#49	23.34	23.37	23.23
		RB1#99	23.28	23.34	23.19
		RB50#0	22.93	23.08	22.94
		RB50#24	22.92	23.07	22.93
		RB50#50	22.84	22.99	22.85
		RB100#0	22.83	22.98	22.84
	16QAM	RB1#0	21.71	21.86	21.72
		RB1#49	22.14	22.27	22.11
		RB1#99	22.15	22.04	21.94
		RB50#0	22.04	22.05	22.06
		RB50#24	21.95	22.16	21.97
		RB50#50	21.84	21.99	21.90
		RB100#0	21.78	21.91	21.76

LTE Band 4:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	22.74	22.84	22.90
		RB1#3	22.77	22.84	22.76
		RB1#5	22.60	22.82	22.67
		RB3#0	22.72	22.82	22.88
		RB3#1	22.75	22.82	22.74
		RB3#3	22.58	22.80	22.65
		RB6#0	22.51	22.64	22.55
	16QAM	RB1#0	21.42	21.51	21.44
		RB1#3	21.43	21.50	21.45
		RB1#5	21.43	21.56	21.47
		RB3#0	21.41	21.50	21.43
		RB3#1	21.42	21.49	21.44
		RB3#3	21.68	21.78	21.84
		RB6#0	21.71	21.78	21.70
3M	QPSK	RB1#0	22.61	22.83	22.68
		RB1#8	22.57	22.80	22.64
		RB1#14	22.67	22.59	22.68
		RB8#0	22.54	22.60	22.69
		RB8#4	22.52	22.65	22.56
		RB8#7	22.50	22.59	22.52
		RB15#0	22.51	22.58	22.53
	16QAM	RB1#0	21.35	21.44	21.40
		RB1#8	21.34	21.38	21.40
		RB1#14	21.28	21.37	21.35
		RB8#0	21.71	21.81	21.87
		RB8#4	21.74	21.81	21.73
		RB8#7	21.57	21.79	21.64
		RB15#0	21.53	21.76	21.60
5M	QPSK	RB1#0	22.70	22.62	22.71
		RB1#12	22.57	22.63	22.72
		RB1#24	22.55	22.68	22.59
		RB12#0	22.53	22.62	22.55
		RB12#7	22.54	22.61	22.56
		RB12#13	22.45	22.54	22.50
		RB25#0	22.44	22.48	22.50
	16QAM	RB1#0	21.31	21.40	21.38
		RB1#12	21.67	21.77	21.83
		RB1#24	21.70	21.77	21.69
		RB12#0	21.53	21.75	21.60
		RB12#7	21.65	21.75	21.81
		RB12#13	21.68	21.75	21.67
		RB25#0	21.51	21.73	21.58

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	22.82	22.92	22.98
		RB1#25	22.85	22.92	22.84
		RB1#49	22.68	22.90	22.75
		RB25#0	22.64	22.87	22.71
		RB25#12	22.74	22.66	22.75
		RB25#25	22.61	22.67	22.76
		RB50#0	22.59	22.72	22.63
	16QAM	RB1#0	21.50	21.59	21.52
		RB1#25	21.51	21.58	21.53
		RB1#49	21.42	21.51	21.47
		RB25#0	21.41	21.45	21.47
		RB25#12	21.35	21.44	21.42
		RB25#25	21.81	21.91	21.97
		RB50#0	21.84	21.91	21.83
15M	QPSK	RB1#0	22.74	22.96	22.81
		RB1#37	22.70	22.93	22.77
		RB1#74	22.80	22.72	22.81
		RB36#0	22.67	22.73	22.82
		RB36#20	22.65	22.78	22.69
		RB36#39	22.63	22.72	22.65
		RB75#0	22.64	22.71	22.66
	16QAM	RB1#0	21.48	21.57	21.53
		RB1#37	21.47	21.51	21.53
		RB1#74	21.41	21.50	21.48
		RB36#0	21.79	21.88	21.92
		RB36#20	21.76	21.84	21.75
		RB36#39	21.61	21.83	21.68
		RB75#0	21.82	21.90	21.91
20M	QPSK	RB1#0	23.09	23.17	23.13
		RB1#49	23.02	23.10	23.08
		RB1#99	22.95	23.04	23.03
		RB50#0	22.72	22.81	22.79
		RB50#24	22.71	22.80	22.78
		RB50#50	22.63	22.72	22.70
		RB100#0	22.62	22.71	22.69
	16QAM	RB1#0	21.50	21.59	21.57
		RB1#49	21.75	21.85	21.91
		RB1#99	21.78	21.85	21.77
		RB50#0	21.61	21.83	21.68
		RB50#24	21.57	21.80	21.64
		RB50#50	21.47	21.69	21.58
		RB100#0	21.44	21.70	21.59

LTE Band 7:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	23.07	23.23	23.24
		RB1#12	23.09	23.18	23.16
		RB1#24	23.08	23.17	23.17
		RB12#0	23.05	23.11	23.07
		RB12#7	22.92	23.05	23.05
		RB12#13	22.88	22.96	22.98
		RB25#0	22.88	22.96	22.93
	16QAM	RB1#0	21.76	21.87	21.86
		RB1#12	21.78	21.86	21.86
		RB1#24	21.66	21.77	21.74
		RB12#0	21.68	21.79	21.73
		RB12#7	21.60	21.71	21.71
		RB12#13	21.67	21.74	21.75
		RB25#0	21.58	21.65	21.72
10M	QPSK	RB1#0	23.12	23.21	23.21
		RB1#25	23.09	23.15	23.11
		RB1#49	22.96	23.09	23.09
		RB25#0	22.92	23.00	23.02
		RB25#12	22.92	23.00	22.97
		RB25#25	22.87	22.98	22.97
		RB50#0	22.89	22.97	22.97
	16QAM	RB1#0	21.70	21.81	21.78
		RB1#25	21.72	21.83	21.77
		RB1#49	21.64	21.75	21.75
		RB25#0	22.10	22.26	22.27
		RB25#12	22.12	22.21	22.19
		RB25#25	22.11	22.20	22.20
		RB50#0	22.08	22.14	22.10
15M	QPSK	RB1#0	23.02	23.15	23.15
		RB1#37	22.98	23.06	23.08
		RB1#74	22.98	23.06	23.03
		RB36#0	22.93	23.04	23.03
		RB36#20	22.95	23.03	23.03
		RB36#39	22.83	22.94	22.91
		RB75#0	22.85	22.96	22.90
	16QAM	RB1#0	21.70	21.81	21.81
		RB1#37	22.00	22.16	22.17
		RB1#74	22.02	22.11	22.09
		RB36#0	22.01	22.10	22.10
		RB36#20	21.98	22.04	22.00
		RB36#39	21.85	21.98	21.98
		RB75#0	21.81	21.89	21.91

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	RB1#0	23.31	23.45	23.39
		RB1#49	23.25	23.38	23.33
		RB1#99	23.20	23.33	23.27
		RB50#0	23.15	23.27	23.25
		RB50#24	23.10	23.23	23.22
		RB50#50	23.05	23.19	23.15
		RB100#0	23.00	23.14	23.10
	16QAM	RB1#0	21.90	22.04	22.00
		RB1#49	21.89	22.03	21.99
		RB1#99	21.81	21.95	21.91
		RB50#0	21.80	21.94	21.90
		RB50#24	21.75	21.89	21.85
		RB50#50	21.70	21.74	21.80
		RB100#0	21.65	21.79	21.75

LTE Band 41:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2549.5MHz (dBm)	Middle Channel (dBm)	2636.5MHz (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	23.10	23.15	23.20	23.13	23.06
		RB1#12	22.95	22.98	23.08	23.06	22.91
		RB1#24	22.89	22.97	23.01	23.04	22.82
		RB12#0	22.88	22.88	22.91	22.92	22.70
		RB12#7	22.81	22.77	22.82	22.84	22.60
		RB12#13	22.75	22.72	22.78	22.75	22.53
		RB25#0	22.68	22.66	22.72	22.74	22.49
	16QAM	RB1#0	21.56	21.57	21.62	21.62	21.38
		RB1#12	21.45	21.50	21.51	21.46	21.23
		RB1#24	21.43	21.48	21.49	21.44	21.20
		RB12#0	21.30	21.46	21.39	21.28	21.08
		RB12#7	21.23	21.43	21.36	21.26	21.06
		RB12#13	22.06	22.11	22.16	22.09	22.02
		RB25#0	21.91	21.94	22.04	22.02	21.87
10M	QPSK	RB1#0	22.92	23.00	23.04	23.07	22.85
		RB1#25	22.91	22.91	22.94	22.95	22.73
		RB1#49	22.84	22.80	22.85	22.87	22.63
		RB25#0	22.78	22.75	22.81	22.78	22.56
		RB25#12	22.71	22.69	22.75	22.77	22.52
		RB25#25	22.66	22.67	22.72	22.72	22.48
		RB50#0	22.55	22.60	22.61	22.56	22.33
	16QAM	RB1#0	21.46	21.51	21.52	21.47	21.23
		RB1#25	21.33	21.49	21.42	21.31	21.11
		RB1#49	21.26	21.46	21.39	21.29	21.09
		RB25#0	22.10	21.41	21.42	21.37	21.13
		RB25#12	21.95	21.39	21.32	21.21	21.12
		RB25#25	21.89	21.26	21.29	21.19	21.07
		RB50#0	21.88	21.88	21.91	21.92	21.70
15M	QPSK	RB1#0	22.88	22.84	22.89	22.91	22.67
		RB1#37	22.82	22.79	22.85	22.82	22.60
		RB1#74	22.75	22.73	22.79	22.81	22.56
		RB36#0	22.70	22.71	22.76	22.76	22.52
		RB36#20	22.59	22.64	22.65	22.60	22.37
		RB36#39	22.57	22.62	22.63	22.58	22.34
		RB75#0	22.44	22.60	22.53	22.42	22.22
	16QAM	RB1#0	21.30	21.50	21.43	21.33	21.13
		RB1#37	22.03	22.08	22.13	22.06	21.99
		RB1#74	21.88	21.91	22.01	21.99	21.84
		RB36#0	21.82	21.90	21.94	21.97	21.75
		RB36#20	21.81	21.81	21.84	21.85	21.63
		RB36#39	21.74	21.70	21.75	21.77	21.53
		RB75#0	21.68	21.65	21.71	21.68	21.46

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2549.5MHz (dBm)	Middle Channel (dBm)	2636.5MHz (dBm)	High Channel (dBm)
20M	QPSK	RB1#0	23.16	23.28	23.31	23.25	23.19
		RB1#49	23.08	23.11	23.21	23.19	23.04
		RB1#99	23.02	23.10	23.14	23.17	22.95
		RB50#0	23.01	23.01	23.04	23.05	22.83
		RB50#24	22.94	22.90	22.95	22.97	22.73
		RB50#50	22.88	22.85	22.91	22.88	22.66
		RB100#0	22.81	22.79	22.85	22.87	22.62
	16QAM	RB1#0	21.69	21.70	21.75	21.75	21.51
		RB1#49	21.58	21.63	21.64	21.59	21.36
		RB1#99	21.56	21.61	21.62	21.57	21.33
		RB50#0	21.43	21.59	21.52	21.41	21.21
		RB50#24	21.41	21.58	21.51	21.40	21.20
		RB50#50	21.34	21.47	21.40	21.29	21.10
		RB100#0	21.30	21.46	21.39	21.27	21.08

n66

Mode	Conducted Power (dBm)
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.09
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@23	23.10
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB12@6	23.17
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@0	22.56
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM QPSK_RB1@1	23.04
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM QPSK_RB1@23	23.05
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM QPSK_RB12@6	23.07
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM QPSK_RB25@0	22.16
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM 16 QAM_RB25@0	21.07
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM 64 QAM_RB25@0	20.68
n66_5MHz_15kHz_1712.5MHz_DFT-s-OFDM 256 QAM_RB25@0	18.71
n66_5MHz_15kHz_1712.5MHz_CP-OFDM QPSK_RB1@1	21.47
n66_5MHz_15kHz_1712.5MHz_CP-OFDM QPSK_RB1@23	21.68
n66_5MHz_15kHz_1712.5MHz_CP-OFDM QPSK_RB13@6	21.47
n66_5MHz_15kHz_1712.5MHz_CP-OFDM QPSK_RB25@0	20.09
n66_5MHz_15kHz_1712.5MHz_CP-OFDM 16 QAM_RB25@0	20.17
n66_5MHz_15kHz_1712.5MHz_CP-OFDM 64 QAM_RB25@0	19.66
n66_5MHz_15kHz_1712.5MHz_CP-OFDM 256 QAM_RB25@0	16.74
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.11
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@23	23.04
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB12@6	23.09
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@0	22.50
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@1	22.91
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@23	22.89
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB12@6	23.10
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB25@0	21.94
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM 16 QAM_RB25@0	21.03
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM 64 QAM_RB25@0	20.53
n66_5MHz_15kHz_1745MHz_DFT-s-OFDM 256 QAM_RB25@0	18.68
n66_5MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@1	21.38
n66_5MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@23	21.64
n66_5MHz_15kHz_1745MHz_CP-OFDM QPSK_RB13@6	21.51
n66_5MHz_15kHz_1745MHz_CP-OFDM QPSK_RB25@0	19.87
n66_5MHz_15kHz_1745MHz_CP-OFDM 16 QAM_RB25@0	19.93

Mode	Conducted Power (dBm)
n66_5MHz_15kHz_1745MHz_CP-OFDM 64 QAM_RB25@0	19.49
n66_5MHz_15kHz_1745MHz_CP-OFDM 256 QAM_RB25@0	16.67
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	22.81
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@23	22.85
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB12@6	22.90
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@0	22.36
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM QPSK_RB1@1	22.83
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM QPSK_RB1@23	22.85
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM QPSK_RB12@6	22.88
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM QPSK_RB25@0	21.88
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM 16 QAM_RB25@0	20.83
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM 64 QAM_RB25@0	20.38
n66_5MHz_15kHz_1777.5MHz_DFT-s-OFDM 256 QAM_RB25@0	18.37
n66_5MHz_15kHz_1777.5MHz_CP-OFDM QPSK_RB1@1	21.32
n66_5MHz_15kHz_1777.5MHz_CP-OFDM QPSK_RB1@23	21.08
n66_5MHz_15kHz_1777.5MHz_CP-OFDM QPSK_RB13@6	21.20
n66_5MHz_15kHz_1777.5MHz_CP-OFDM QPSK_RB25@0	19.78
n66_5MHz_15kHz_1777.5MHz_CP-OFDM 16 QAM_RB25@0	19.77
n66_5MHz_15kHz_1777.5MHz_CP-OFDM 64 QAM_RB25@0	19.17
n66_5MHz_15kHz_1777.5MHz_CP-OFDM 256 QAM_RB25@0	16.37
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.10
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@50	23.15
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@12	23.15
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0	22.66
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM QPSK_RB1@1	23.06
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM QPSK_RB1@50	23.03
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM QPSK_RB25@12	23.13
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM QPSK_RB50@0	22.11
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM 16 QAM_RB50@0	21.10
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM 64 QAM_RB50@0	20.58
n66_10MHz_15kHz_1715MHz_DFT-s-OFDM 256 QAM_RB50@0	18.71
n66_10MHz_15kHz_1715MHz_CP-OFDM QPSK_RB1@1	21.50
n66_10MHz_15kHz_1715MHz_CP-OFDM QPSK_RB1@50	21.74
n66_10MHz_15kHz_1715MHz_CP-OFDM QPSK_RB26@13	21.61
n66_10MHz_15kHz_1715MHz_CP-OFDM QPSK_RB52@0	20.08
n66_10MHz_15kHz_1715MHz_CP-OFDM 16 QAM_RB52@0	20.06

Mode	Conducted Power (dBm)
n66_10MHz_15kHz_1715MHz_CP-OFDM 64 QAM_RB52@0	19.52
n66_10MHz_15kHz_1715MHz_CP-OFDM 256 QAM_RB52@0	16.74
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.13
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@50	23
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@12	22.99
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0	22.45
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@1	23.06
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@50	22.93
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB25@12	23.04
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB50@0	21.96
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM 16 QAM_RB50@0	20.98
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM 64 QAM_RB50@0	20.46
n66_10MHz_15kHz_1745MHz_DFT-s-OFDM 256 QAM_RB50@0	18.64
n66_10MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@1	23.14
n66_10MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@50	21.61
n66_10MHz_15kHz_1745MHz_CP-OFDM QPSK_RB26@13	21.44
n66_10MHz_15kHz_1745MHz_CP-OFDM QPSK_RB52@0	20
n66_10MHz_15kHz_1745MHz_CP-OFDM 16 QAM_RB52@0	19.95
n66_10MHz_15kHz_1745MHz_CP-OFDM 64 QAM_RB52@0	19.47
n66_10MHz_15kHz_1745MHz_CP-OFDM 256 QAM_RB52@0	16.57
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	22.81
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@50	22.83
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@12	22.83
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0	22.36
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM QPSK_RB1@1	22.86
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM QPSK_RB1@50	22.83
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM QPSK_RB25@12	22.89
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM QPSK_RB50@0	21.84
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM 16 QAM_RB50@0	20.95
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM 64 QAM_RB50@0	20.42
n66_10MHz_15kHz_1775MHz_DFT-s-OFDM 256 QAM_RB50@0	18.37
n66_10MHz_15kHz_1775MHz_CP-OFDM QPSK_RB1@1	21.04
n66_10MHz_15kHz_1775MHz_CP-OFDM QPSK_RB1@50	21.24
n66_10MHz_15kHz_1775MHz_CP-OFDM QPSK_RB26@13	21.31
n66_10MHz_15kHz_1775MHz_CP-OFDM QPSK_RB52@0	19.85
n66_10MHz_15kHz_1775MHz_CP-OFDM 16 QAM_RB52@0	19.82

Mode	Conducted Power (dBm)
n66_10MHz_15kHz_1775MHz_CP-OFDM 64 QAM_RB52@0	19.16
n66_10MHz_15kHz_1775MHz_CP-OFDM 256 QAM_RB52@0	15.85
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.36
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@77	23.48
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@18	23.23
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0	22.81
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM QPSK_RB1@1	23.37
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM QPSK_RB1@77	23.25
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM QPSK_RB36@18	23.30
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM QPSK_RB75@0	22.25
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM 16 QAM_RB75@0	21.32
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM 64 QAM_RB75@0	20.78
n66_15MHz_15kHz_1717.5MHz_DFT-s-OFDM 256 QAM_RB75@0	18.85
n66_15MHz_15kHz_1717.5MHz_CP-OFDM QPSK_RB1@1	21.56
n66_15MHz_15kHz_1717.5MHz_CP-OFDM QPSK_RB1@77	21.43
n66_15MHz_15kHz_1717.5MHz_CP-OFDM QPSK_RB39@19	21.73
n66_15MHz_15kHz_1717.5MHz_CP-OFDM QPSK_RB79@0	20.29
n66_15MHz_15kHz_1717.5MHz_CP-OFDM 16 QAM_RB79@0	20.29
n66_15MHz_15kHz_1717.5MHz_CP-OFDM 64 QAM_RB79@0	19.83
n66_15MHz_15kHz_1717.5MHz_CP-OFDM 256 QAM_RB79@0	16.79
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.16
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@77	23.13
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@18	23.20
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0	22.66
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@1	23.10
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@77	23.26
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB36@18	23.13
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB75@0	22.23
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM 16 QAM_RB75@0	21.26
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM 64 QAM_RB75@0	20.72
n66_15MHz_15kHz_1745MHz_DFT-s-OFDM 256 QAM_RB75@0	18.72
n66_15MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@1	21.77
n66_15MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@77	21.70
n66_15MHz_15kHz_1745MHz_CP-OFDM QPSK_RB39@19	21.51
n66_15MHz_15kHz_1745MHz_CP-OFDM QPSK_RB79@0	20.26
n66_15MHz_15kHz_1745MHz_CP-OFDM 16 QAM_RB79@0	20.24

Mode	Conducted Power (dBm)
n66_15MHz_15kHz_1745MHz_CP-OFDM 64 QAM_RB79@0	19.77
n66_15MHz_15kHz_1745MHz_CP-OFDM 256 QAM_RB79@0	16.74
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	22.98
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@77	22.86
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@18	22.95
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0	22.50
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM QPSK_RB1@1	22.98
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM QPSK_RB1@77	22.86
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM QPSK_RB36@18	22.94
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM QPSK_RB75@0	21.93
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM 16 QAM_RB75@0	20.94
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM 64 QAM_RB75@0	20.52
n66_15MHz_15kHz_1772.5MHz_DFT-s-OFDM 256 QAM_RB75@0	18.63
n66_15MHz_15kHz_1772.5MHz_CP-OFDM QPSK_RB1@1	21.21
n66_15MHz_15kHz_1772.5MHz_CP-OFDM QPSK_RB1@77	21.58
n66_15MHz_15kHz_1772.5MHz_CP-OFDM QPSK_RB39@19	21.34
n66_15MHz_15kHz_1772.5MHz_CP-OFDM QPSK_RB79@0	19.98
n66_15MHz_15kHz_1772.5MHz_CP-OFDM 16 QAM_RB79@0	20.03
n66_15MHz_15kHz_1772.5MHz_CP-OFDM 64 QAM_RB79@0	19.48
n66_15MHz_15kHz_1772.5MHz_CP-OFDM 256 QAM_RB79@0	16.52
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.38
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@104	23.36
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@25	23.29
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0	22.80
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM QPSK_RB1@1	23.44
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM QPSK_RB1@104	23.27
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM QPSK_RB50@25	23.34
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM QPSK_RB100@0	22.23
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM 16 QAM_RB100@0	21.26
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM 64 QAM_RB100@0	20.77
n66_20MHz_15kHz_1720MHz_DFT-s-OFDM 256 QAM_RB100@0	18.87
n66_20MHz_15kHz_1720MHz_CP-OFDM QPSK_RB1@1	21.81
n66_20MHz_15kHz_1720MHz_CP-OFDM QPSK_RB1@104	21.57
n66_20MHz_15kHz_1720MHz_CP-OFDM QPSK_RB53@26	21.78
n66_20MHz_15kHz_1720MHz_CP-OFDM QPSK_RB106@0	20.35
n66_20MHz_15kHz_1720MHz_CP-OFDM 16 QAM_RB106@0	20.31

Mode	Conducted Power (dBm)
n66_20MHz_15kHz_1720MHz_CP-OFDM 64 QAM_RB106@0	19.76
n66_20MHz_15kHz_1720MHz_CP-OFDM 256 QAM_RB106@0	16.87
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.14
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@104	23.18
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@25	23.13
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0	22.67
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@1	23.21
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB1@104	23.04
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB50@25	23.27
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB100@0	22.23
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM 16 QAM_RB100@0	21.32
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM 64 QAM_RB100@0	20.69
n66_20MHz_15kHz_1745MHz_DFT-s-OFDM 256 QAM_RB100@0	18.79
n66_20MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@1	21.54
n66_20MHz_15kHz_1745MHz_CP-OFDM QPSK_RB1@104	21.68
n66_20MHz_15kHz_1745MHz_CP-OFDM QPSK_RB53@26	21.71
n66_20MHz_15kHz_1745MHz_CP-OFDM QPSK_RB106@0	20.25
n66_20MHz_15kHz_1745MHz_CP-OFDM 16 QAM_RB106@0	20.27
n66_20MHz_15kHz_1745MHz_CP-OFDM 64 QAM_RB106@0	19.55
n66_20MHz_15kHz_1745MHz_CP-OFDM 256 QAM_RB106@0	16.66
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	22.99
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@104	22.88
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@25	22.93
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0	22.49
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM QPSK_RB1@1	23.14
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM QPSK_RB1@104	22.97
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM QPSK_RB50@25	22.97
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM QPSK_RB100@0	21.98
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM 16 QAM_RB100@0	20.99
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM 64 QAM_RB100@0	20.49
n66_20MHz_15kHz_1770MHz_DFT-s-OFDM 256 QAM_RB100@0	18.64
n66_20MHz_15kHz_1770MHz_CP-OFDM QPSK_RB1@1	21.54
n66_20MHz_15kHz_1770MHz_CP-OFDM QPSK_RB1@104	21.46
n66_20MHz_15kHz_1770MHz_CP-OFDM QPSK_RB53@26	21.46
n66_20MHz_15kHz_1770MHz_CP-OFDM QPSK_RB106@0	20.05
n66_20MHz_15kHz_1770MHz_CP-OFDM 16 QAM_RB106@0	20.07

Mode	Conducted Power (dBm)
n66_20MHz_15kHz_1770MHz_CP-OFDM 64 QAM_RB106@0	19.58
n66_20MHz_15kHz_1770MHz_CP-OFDM 256 QAM_RB106@0	16.58

n71

Mode	Conducted Power (dBm)
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.35
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@23	23.33
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB12@6	23.38
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@0	22.87
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM QPSK_RB1@1	23.21
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM QPSK_RB1@23	23.27
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM QPSK_RB12@6	23.30
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM QPSK_RB25@0	22.22
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM 16 QAM_RB25@0	21.44
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM 64 QAM_RB25@0	20.76
n71_5MHz_15kHz_665.5MHz_DFT-s-OFDM 256 QAM_RB25@0	18.94
n71_5MHz_15kHz_665.5MHz_CP-OFDM QPSK_RB1@1	21.85
n71_5MHz_15kHz_665.5MHz_CP-OFDM QPSK_RB1@23	21.69
n71_5MHz_15kHz_665.5MHz_CP-OFDM QPSK_RB13@6	21.74
n71_5MHz_15kHz_665.5MHz_CP-OFDM QPSK_RB25@0	20.25
n71_5MHz_15kHz_665.5MHz_CP-OFDM 16 QAM_RB25@0	20.34
n71_5MHz_15kHz_665.5MHz_CP-OFDM 64 QAM_RB25@0	19.76
n71_5MHz_15kHz_665.5MHz_CP-OFDM 256 QAM_RB25@0	16.57
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.01
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@23	23.12
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB12@6	23.24
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@0	22.68
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB1@1	23.10
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB1@23	23.22
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB12@6	23.21
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB25@0	22.16
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM 16 QAM_RB25@0	21.10
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM 64 QAM_RB25@0	20.67
n71_5MHz_15kHz_680.5MHz_DFT-s-OFDM 256 QAM_RB25@0	18.72
n71_5MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@1	21.62
n71_5MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@23	21.68
n71_5MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB13@6	21.62
n71_5MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB25@0	20.19
n71_5MHz_15kHz_680.5MHz_CP-OFDM 16 QAM_RB25@0	20.05

Mode	Conducted Power (dBm)
n71_5MHz_15kHz_680.5MHz_CP-OFDM 64 QAM_RB25@0	19.64
n71_5MHz_15kHz_680.5MHz_CP-OFDM 256 QAM_RB25@0	16.64
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.99
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@23	23.89
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB12@6	23.99
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@0	23.51
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM QPSK_RB1@1	24.01
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM QPSK_RB1@23	23.84
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM QPSK_RB12@6	23.99
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM QPSK_RB25@0	22.99
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM 16 QAM_RB25@0	21.92
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM 64 QAM_RB25@0	21.40
n71_5MHz_15kHz_695.5MHz_DFT-s-OFDM 256 QAM_RB25@0	19.59
n71_5MHz_15kHz_695.5MHz_CP-OFDM QPSK_RB1@1	22.30
n71_5MHz_15kHz_695.5MHz_CP-OFDM QPSK_RB1@23	22.66
n71_5MHz_15kHz_695.5MHz_CP-OFDM QPSK_RB13@6	22.49
n71_5MHz_15kHz_695.5MHz_CP-OFDM QPSK_RB25@0	20.90
n71_5MHz_15kHz_695.5MHz_CP-OFDM 16 QAM_RB25@0	20.47
n71_5MHz_15kHz_695.5MHz_CP-OFDM 64 QAM_RB25@0	20.36
n71_5MHz_15kHz_695.5MHz_CP-OFDM 256 QAM_RB25@0	17.33
n71_10MHz_15kHz_668MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.40
n71_10MHz_15kHz_668MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@50	23.14
n71_10MHz_15kHz_668MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@12	23.21
n71_10MHz_15kHz_668MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0	22.30
n71_10MHz_15kHz_668MHz_DFT-s-OFDM QPSK_RB1@1	23.29
n71_10MHz_15kHz_668MHz_DFT-s-OFDM QPSK_RB1@50	23.14
n71_10MHz_15kHz_668MHz_DFT-s-OFDM QPSK_RB25@12	23.31
n71_10MHz_15kHz_668MHz_DFT-s-OFDM QPSK_RB50@0	22.27
n71_10MHz_15kHz_668MHz_DFT-s-OFDM 16 QAM_RB50@0	21.19
n71_10MHz_15kHz_668MHz_DFT-s-OFDM 64 QAM_RB50@0	20.72
n71_10MHz_15kHz_668MHz_DFT-s-OFDM 256 QAM_RB50@0	18.89
n71_10MHz_15kHz_668MHz_CP-OFDM QPSK_RB1@1	22.20
n71_10MHz_15kHz_668MHz_CP-OFDM QPSK_RB1@50	21.66
n71_10MHz_15kHz_668MHz_CP-OFDM QPSK_RB26@13	21.80
n71_10MHz_15kHz_668MHz_CP-OFDM QPSK_RB52@0	20.21
n71_10MHz_15kHz_668MHz_CP-OFDM 16 QAM_RB52@0	20.28

Mode	Conducted Power (dBm)
n71_10MHz_15kHz_668MHz_CP-OFDM 64 QAM_RB52@0	19.73
n71_10MHz_15kHz_668MHz_CP-OFDM 256 QAM_RB52@0	16.73
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.13
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@50	23.07
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@12	23.18
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0	22.56
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB1@1	23.11
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB1@50	22.97
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB25@12	23.18
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB50@0	22.18
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM 16 QAM_RB50@0	20.99
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM 64 QAM_RB50@0	20.64
n71_10MHz_15kHz_680.5MHz_DFT-s-OFDM 256 QAM_RB50@0	18.73
n71_10MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@1	21.77
n71_10MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@50	21.71
n71_10MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB26@13	21.63
n71_10MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB52@0	20.17
n71_10MHz_15kHz_680.5MHz_CP-OFDM 16 QAM_RB52@0	20.14
n71_10MHz_15kHz_680.5MHz_CP-OFDM 64 QAM_RB52@0	19.70
n71_10MHz_15kHz_680.5MHz_CP-OFDM 256 QAM_RB52@0	16.64
n71_10MHz_15kHz_693MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.11
n71_10MHz_15kHz_693MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@50	23.01
n71_10MHz_15kHz_693MHz_DFT-s-OFDM $\pi/2$ BPSK_RB25@12	23.01
n71_10MHz_15kHz_693MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@0	22.53
n71_10MHz_15kHz_693MHz_DFT-s-OFDM QPSK_RB1@1	23.11
n71_10MHz_15kHz_693MHz_DFT-s-OFDM QPSK_RB1@50	22.85
n71_10MHz_15kHz_693MHz_DFT-s-OFDM QPSK_RB25@12	22.99
n71_10MHz_15kHz_693MHz_DFT-s-OFDM QPSK_RB50@0	22.02
n71_10MHz_15kHz_693MHz_DFT-s-OFDM 16 QAM_RB50@0	21
n71_10MHz_15kHz_693MHz_DFT-s-OFDM 64 QAM_RB50@0	20.50
n71_10MHz_15kHz_693MHz_DFT-s-OFDM 256 QAM_RB50@0	18.79
n71_10MHz_15kHz_693MHz_CP-OFDM QPSK_RB1@1	21.36
n71_10MHz_15kHz_693MHz_CP-OFDM QPSK_RB1@50	21.40
n71_10MHz_15kHz_693MHz_CP-OFDM QPSK_RB26@13	21.49
n71_10MHz_15kHz_693MHz_CP-OFDM QPSK_RB52@0	20.02
n71_10MHz_15kHz_693MHz_CP-OFDM 16 QAM_RB52@0	19.94

Mode	Conducted Power (dBm)
n71_10MHz_15kHz_693MHz_CP-OFDM 64 QAM_RB52@0	19.49
n71_10MHz_15kHz_693MHz_CP-OFDM 256 QAM_RB52@0	16.39
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.53
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@77	23.33
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@18	23.44
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0	22.92
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM QPSK_RB1@1	23.53
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM QPSK_RB1@77	23.46
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM QPSK_RB36@18	23.40
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM QPSK_RB75@0	22.43
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM 16 QAM_RB75@0	21.39
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM 64 QAM_RB75@0	20.85
n71_15MHz_15kHz_670.5MHz_DFT-s-OFDM 256 QAM_RB75@0	19.15
n71_15MHz_15kHz_670.5MHz_CP-OFDM QPSK_RB1@1	21.90
n71_15MHz_15kHz_670.5MHz_CP-OFDM QPSK_RB1@77	21.79
n71_15MHz_15kHz_670.5MHz_CP-OFDM QPSK_RB39@19	21.97
n71_15MHz_15kHz_670.5MHz_CP-OFDM QPSK_RB79@0	20.44
n71_15MHz_15kHz_670.5MHz_CP-OFDM 16 QAM_RB79@0	20.39
n71_15MHz_15kHz_670.5MHz_CP-OFDM 64 QAM_RB79@0	19.93
n71_15MHz_15kHz_670.5MHz_CP-OFDM 256 QAM_RB79@0	16.81
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.34
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@77	23.24
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@18	23.29
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0	22.80
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB1@1	23.34
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB1@77	23.11
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB36@18	23.26
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB75@0	22.28
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM 16 QAM_RB75@0	21.25
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM 64 QAM_RB75@0	20.79
Mode	Conducted Power (dBm)
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM 256 QAM_RB75@0	18.88
n71_15MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@1	21.70
n71_15MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@77	21.48
n71_15MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB39@19	21.77

Mode	Conducted Power (dBm)
n71_15MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB79@0	20.27
n71_15MHz_15kHz_680.5MHz_CP-OFDM 16 QAM_RB79@0	20.32
n71_15MHz_15kHz_680.5MHz_CP-OFDM 64 QAM_RB79@0	19.78
n71_15MHz_15kHz_680.5MHz_CP-OFDM 256 QAM_RB79@0	16.68
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@77	23.01
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@18	23.23
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0	22.55
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM QPSK_RB1@1	23.27
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM QPSK_RB1@77	22.95
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM QPSK_RB36@18	23.15
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM QPSK_RB75@0	22.20
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM 16 QAM_RB75@0	21.10
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM 64 QAM_RB75@0	20.61
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM 256 QAM_RB75@0	18.74
n71_15MHz_15kHz_690.5MHz_CP-OFDM QPSK_RB1@1	21.80
n71_15MHz_15kHz_690.5MHz_CP-OFDM QPSK_RB1@77	21.57
n71_15MHz_15kHz_680.5MHz_DFT-s-OFDM 256 QAM_RB75@0	18.88
n71_15MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@1	21.70
n71_15MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@77	21.48
n71_15MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB39@19	21.77
n71_15MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB79@0	20.27
n71_15MHz_15kHz_680.5MHz_CP-OFDM 16 QAM_RB79@0	20.32
n71_15MHz_15kHz_680.5MHz_CP-OFDM 64 QAM_RB79@0	19.78
n71_15MHz_15kHz_680.5MHz_CP-OFDM 256 QAM_RB79@0	16.68
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@77	23.01
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB36@18	23.23
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB75@0	22.55
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM QPSK_RB1@1	23.27
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM QPSK_RB1@77	22.95
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM QPSK_RB36@18	23.15
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM QPSK_RB75@0	22.20
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM 16 QAM_RB75@0	21.10
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM 64 QAM_RB75@0	20.61
n71_15MHz_15kHz_690.5MHz_DFT-s-OFDM 256 QAM_RB75@0	18.74
n71_15MHz_15kHz_690.5MHz_CP-OFDM QPSK_RB1@1	21.80
n71_15MHz_15kHz_690.5MHz_CP-OFDM QPSK_RB1@77	21.57

Mode	Conducted Power (dBm)
n71_15MHz_15kHz_690.5MHz_CP-OFDM QPSK_RB39@19	21.76
n71_15MHz_15kHz_690.5MHz_CP-OFDM QPSK_RB79@0	20.08
n71_15MHz_15kHz_690.5MHz_CP-OFDM 16 QAM_RB79@0	20.06
n71_15MHz_15kHz_690.5MHz_CP-OFDM 64 QAM_RB79@0	19.59
n71_15MHz_15kHz_690.5MHz_CP-OFDM 256 QAM_RB79@0	16.63
n71_20MHz_15kHz_673MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.38
n71_20MHz_15kHz_673MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@104	23.09
n71_20MHz_15kHz_673MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@25	23.43
n71_20MHz_15kHz_673MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0	22.78
n71_20MHz_15kHz_673MHz_DFT-s-OFDM QPSK_RB1@1	23.45
n71_20MHz_15kHz_673MHz_DFT-s-OFDM QPSK_RB1@104	23.15
n71_20MHz_15kHz_673MHz_DFT-s-OFDM QPSK_RB50@25	23.35
n71_20MHz_15kHz_673MHz_DFT-s-OFDM QPSK_RB100@0	22.34
n71_20MHz_15kHz_673MHz_DFT-s-OFDM 16 QAM_RB100@0	21.39
n71_20MHz_15kHz_673MHz_DFT-s-OFDM 64 QAM_RB100@0	20.89
n71_20MHz_15kHz_673MHz_DFT-s-OFDM 256 QAM_RB100@0	19.01
n71_20MHz_15kHz_673MHz_CP-OFDM QPSK_RB1@1	21.87
n71_20MHz_15kHz_673MHz_CP-OFDM QPSK_RB1@104	21.55
n71_20MHz_15kHz_673MHz_CP-OFDM QPSK_RB53@26	21.76
n71_20MHz_15kHz_673MHz_CP-OFDM QPSK_RB106@0	20.41
n71_20MHz_15kHz_673MHz_CP-OFDM 16 QAM_RB106@0	20.34
n71_20MHz_15kHz_673MHz_CP-OFDM 64 QAM_RB106@0	19.75
n71_20MHz_15kHz_673MHz_CP-OFDM 256 QAM_RB106@0	16.93
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.38
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@104	23.21
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@25	23.29
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0	22.80
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB1@1	23.72
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB1@104	23.07
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB50@25	23.74
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB100@0	22.32
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM 16 QAM_RB100@0	21.32
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM 64 QAM_RB100@0	20.77
n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM 256 QAM_RB100@0	18.86
n71_20MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@1	21.79
n71_20MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB1@104	21.48

Mode	Conducted Power (dBm)
n71_20MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB53@26	21.77
n71_20MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB106@0	20.31
n71_20MHz_15kHz_680.5MHz_CP-OFDM 16 QAM_RB106@0	20.31
n71_20MHz_15kHz_680.5MHz_CP-OFDM 64 QAM_RB106@0	20.04
n71_20MHz_15kHz_680.5MHz_CP-OFDM 256 QAM_RB106@0	16.76
n71_20MHz_15kHz_688MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@1	23.37
n71_20MHz_15kHz_688MHz_DFT-s-OFDM $\pi/2$ BPSK_RB1@104	22.93
n71_20MHz_15kHz_688MHz_DFT-s-OFDM $\pi/2$ BPSK_RB50@25	23.18
n71_20MHz_15kHz_688MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0	22.68
n71_20MHz_15kHz_688MHz_DFT-s-OFDM QPSK_RB1@1	23.31
n71_20MHz_15kHz_688MHz_DFT-s-OFDM QPSK_RB1@104	22.99
n71_20MHz_15kHz_688MHz_DFT-s-OFDM QPSK_RB50@25	23.19
n71_20MHz_15kHz_688MHz_DFT-s-OFDM QPSK_RB100@0	22.22
n71_20MHz_15kHz_688MHz_DFT-s-OFDM 16 QAM_RB100@0	21.09
n71_20MHz_15kHz_688MHz_DFT-s-OFDM 64 QAM_RB100@0	20.64
n71_20MHz_15kHz_688MHz_DFT-s-OFDM 256 QAM_RB100@0	18.79
n71_20MHz_15kHz_688MHz_CP-OFDM QPSK_RB1@1	21.65
n71_20MHz_15kHz_688MHz_CP-OFDM QPSK_RB1@104	21.42
n71_20MHz_15kHz_688MHz_CP-OFDM QPSK_RB53@26	21.59
n71_20MHz_15kHz_688MHz_CP-OFDM QPSK_RB106@0	20.09
n71_20MHz_15kHz_688MHz_CP-OFDM 16 QAM_RB106@0	20.19
n71_20MHz_15kHz_688MHz_CP-OFDM 64 QAM_RB106@0	19.63
n71_20MHz_15kHz_688MHz_CP-OFDM 256 QAM_RB106@0	16.69

WLAN: 2.4G

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	Average Output Power(dBm)
802.11b	2412	1M	99.19	12.09
	2437			11.93
	2462			12.92
802.11g	2412	6M	/	11.91
	2437			11.52
	2462			12.56
802.11n20	2412	MCS0	/	11.89
	2437			11.49
	2462			12.37
802.11n40	2422	MCS0	/	12.60
	2437			12.19
	2452			12.76

Note: The duty cycle plots, please refer to the radio report: 2501V67579E-RF-00C#.

WLAN: 5.2G

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	Average Output Power(dBm)
802.11a	5180	6M	/	13.76
	5200			13.53
	5240			12.82
802.11n20	5180	MCS0	/	13.58
	5200			13.31
	5240			12.88
802.11n40	5190	MCS0	/	14.35
	5230			13.82
802.11ac20	5180	MCS0	/	13.47
	5200			13.31
	5240			12.79
802.11ac40	5190	MCS0	96.24	14.43
	5230			13.91
802.11ac80	5210	MCS0	/	13.78

WLAN: 5.3G

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	Average Output Power(dBm)
802.11a	5260	6M	/	12.29
	5300			11.86
	5320			12.37
802.11n20	5260	MCS0	/	12.07
	5300			11.70
	5320			12.36
802.11n40	5270	MCS0	/	12.95
	5310			12.61
802.11ac20	5260	MCS0	/	11.94
	5300			11.76
	5320			12.19
802.11ac40	5270	MCS0	96.24	13.16
	5310			12.73
802.11ac80	5290	MCS0	/	12.50

WLAN: 5.6G

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	Average Output Power(dBm)
802.11a	5500	6M	/	14.20
	5580			13.11
	5700			14.06
	5720			12.75
802.11n20	5500	MCS0	/	13.85
	5580			13.08
	5700			14.02
	5720			12.58
802.11n40	5510	MCS0	/	14.36
	5550			14.23
	5670			14.46
	5710			12.55
802.11ac20	5500	MCS0	/	14.01
	5580			13.08
	5700			13.98
	5720			12.77
802.11ac40	5510	MCS0	96.24	14.51
	5550			14.48
	5670			14.64
	5710			12.85
802.11ac80	5530	MCS0	/	14.30
	5610			11.63
	5690			13.29

WLAN: 5.8G

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	Average Output Power(dBm)
802.11a	5745	6M	/	12.01
	5785			11.76
	5825			11.80
802.11n20	5745	MCS0	/	11.72
	5785			11.55
	5825			11.77
802.11n40	5755	MCS0	/	12.43
	5795			12.06
802.11ac20	5745	MCS0	/	11.96
	5785			11.60
	5825			11.66
802.11ac40	5755	MCS0	96.24	12.55
	5795			12.31
802.11ac80	5775	MCS0	/	12.23

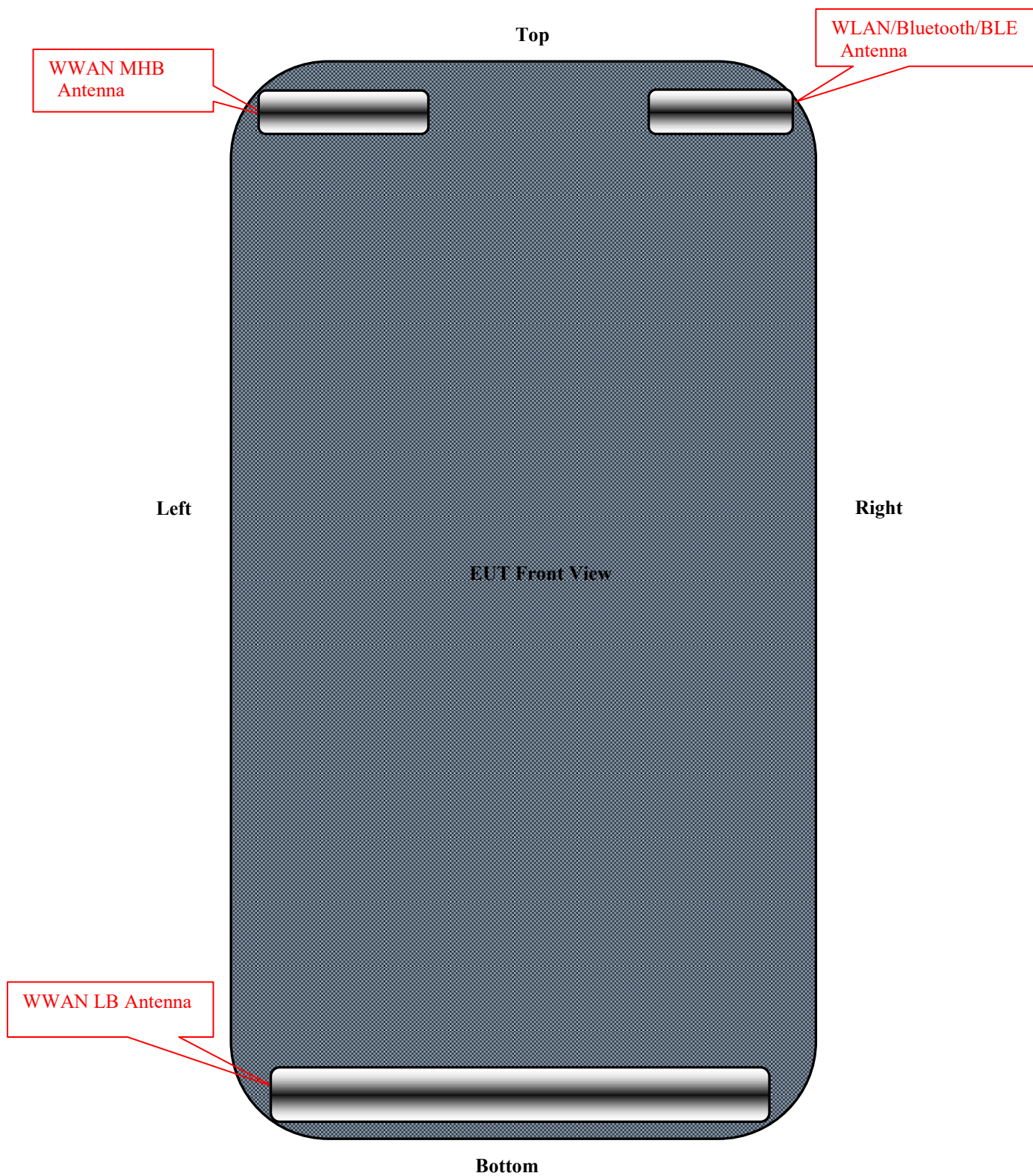
Note: The duty cycle plots, please refer to the radio report: 2501V67579E-RF-00D#.

Bluetooth:

Mode	Channel frequency (MHz)	Duty cycle (%)	RF Output Power (dBm)
GFSK	2402	/	3.51
	2441		4.27
	2465		6.87
	2480		6.03
$\pi/4$ -DQPSK	2402	/	2.44
	2441		3.41
	2465		5.87
	2480		4.93
8DPSK	2402	/	2.79
	2441		3.71
	2466		6.16
	2480		5.35
BLE 1M	2402	/	2.30
	2440		2.93
	2480		4.46
BLE 2M	2402	/	2.70
	2440		3.01
	2480		4.63

STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

Antennas Location:



Antenna Distance To Edge(TRX)

Antenna Distance To Edge(mm)						
Antenna	Front	Back	Left	Right	Top	Bottom
WWAN LB Antenna (GSM/WCDMA/LTE/NR)	7	< 5	< 5	< 5	158	< 5
WWAN MHB Antenna (GSM/WCDMA/LTE/NR)	7	< 5	< 5	69	< 5	157
WLAN/BT Antenna	7	< 5	65	< 5	< 5	156

Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
WIFI 2.4G	2462	13	19.95	0	6.3	3	NO
WIFI 5.2G	5240	14.5	28.18	0	12.9	3	NO
WIFI 5.3G	5320	13.5	22.39	0	10.3	3	NO
WIFI 5.6G	5720	14.7	29.51	0	14.1	3	NO
WIFI 5.8G	5825	13	19.95	0	9.6	3	NO
BT/BLE	2480	7	5.01	0	1.6	3	YES

Note: The Wi-Fi based average power for calculation, The Bluetooth based peak power for calculation.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ 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.

According to KDB 447498 D01 General RF Exposure Guidance v06, clause 4.3. General SAR test exclusion guidance:

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

SAR test exclusion for the EUT edge considerations Result

Mode	Front	Back	Left	Right	Top	Bottom
WWAN LB Antenna (GSM/WCDMA/LTE/NR)	Required	Required	Required	Required	Exclusion	Required
WWAN MHB Antenna (GSM/WCDMA/LTE/NR)	Required	Required	Required	Exclusion	Required	Exclusion
WLAN	Required	Required	Exclusion	Required	Required	Exclusion
BT	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.

Standalone SAR estimation:

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Estimated (W/kg)
BT Head	2480	7	5.01	0	0.21@1g
BT Body	2480	7	5.01	10	0.11@1g

Note: The Bluetooth based peak power for calculation.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})} / x]$$

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.

Extremity Exposure Configurations

Per KDB 648474 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is > 160 mm and < 200 mm, when hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance is 1g SAR > 1.2 W/kg)

Extremity Exposure Condition		
Worst Mode	Hotspot SAR value	Extremity Condition Test
LTE Band 2	0.83W/kg@1g	Exclusion

Exclusion: Extremity Condition SAR testing is not required.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetry evaluation.

Test Results:

Environmental Conditions

Temperature:	22.1-22.5 °C	21.5-22.2°C	21.9-22.5 °C	21.4-22.6 °C	21.4-21.9 °C
Relative Humidity:	51%	53%	52%	54%	56%
ATM Pressure:	100.1 kPa	100.2 kPa	100.1 kPa	100.3 kPa	100.1 kPa
Test Date:	2025/9/6	2025/9/7	2025/9/8	2025/9/9	2025/9/10

Testing was performed by Devon Liang, Jack Yang, Ryse Chai.

GSM 850:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.057	0.06	/
	848.8	GPRS	/	/	/	/	/	/
Head Left Tilt	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.034	0.04	/
	848.8	GPRS	/	/	/	/	/	/
Head Right Cheek	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.066	0.07	1#
	848.8	GPRS	/	/	/	/	/	/
Head Right Tilt	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.026	0.03	/
	848.8	GPRS	/	/	/	/	/	/
Body Front (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.123	0.13	/
	848.8	GPRS	/	/	/	/	/	/
Body Back (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.101	0.11	/
	848.8	GPRS	/	/	/	/	/	/
Body Left (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.023	0.02	/
	848.8	GPRS	/	/	/	/	/	/
Body Right (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.089	0.09	/
	848.8	GPRS	/	/	/	/	/	/
Body Bottom (10mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	28.78	29.0	1.052	0.141	0.15	2#
	848.8	GPRS	/	/	/	/	/	/

The data above was performed on 2025/09/06

Note:

1. When the 1-g SAR is $\leq 0.8\text{W/Kg}$, testing for other channels are optional.
2. The EUT transmit and receive through the same GSM 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.
4. When the maximum output power variation across the required test channels is $> 0.5\text{ dB}$, instead of the middle channel, the highest output power channel must be used.
5. 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.
6. The test is based on the mode with the highest average power.

GSM 1900:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.01	26.5	1.119	0.613	0.69	/
	1909.8	GPRS	/	/	/	/	/	/
Head Left Tilt	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.01	26.5	1.119	0.69	0.77	/
	1909.8	GPRS	/	/	/	/	/	/
Head Right Cheek	1850.2	GPRS	25.93	26.5	1.140	1.04	1.19	3#
	1880	GPRS	26.01	26.5	1.119	0.977	1.09	/
	1909.8	GPRS	26.18	26.5	1.076	0.941	1.01	/
Head Right Tilt	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.01	26.5	1.119	0.71	0.79	/
	1909.8	GPRS	/	/	/	/	/	/
Body Front (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.01	26.5	1.119	0.211	0.24	/
	1909.8	GPRS	/	/	/	/	/	/
Body Back (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.01	26.5	1.119	0.201	0.23	/
	1909.8	GPRS	/	/	/	/	/	/
Body Left (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.01	26.5	1.119	0.019	0.02	/
	1909.8	GPRS	/	/	/	/	/	/
Body Top (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	26.01	26.5	1.119	0.222	0.25	4#
	1909.8	GPRS	/	/	/	/	/	/

The data above was performed on 2025/09/08

Note:

1. When the 1-g SAR is $\leq 0.8\text{W/Kg}$, testing for other channels are optional.
2. The EUT transmit and receive through the same GSM 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.
4. When the maximum output power variation across the required test channels is $> 0.5\text{ dB}$, instead of the middle channel, the highest output power channel must be used.
5. 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.
6. The test is based on the mode with the highest average power.

WCDMA Band 2:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.34	23.5	1.038	0.628	0.65	/
	1907.6	RMC	/	/	/	/	/	/
Head Left Tilt	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.34	23.5	1.038	0.634	0.66	/
	1907.6	RMC	/	/	/	/	/	/
Head Right Cheek	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.34	23.5	1.038	0.703	0.73	5#
	1907.6	RMC	/	/	/	/	/	/
Head Right Tilt	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.34	23.5	1.038	0.481	0.50	/
	1907.6	RMC	/	/	/	/	/	/
Body Front (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.34	23.5	1.038	0.625	0.65	/
	1907.6	RMC	/	/	/	/	/	/
Body Back (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.34	23.5	1.038	0.579	0.60	/
	1907.6	RMC	/	/	/	/	/	/
Body Left (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.34	23.5	1.038	0.078	0.08	/
	1907.6	RMC	/	/	/	/	/	/
Body Top (10mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	23.34	23.5	1.038	0.697	0.72	6#
	1907.6	RMC	/	/	/	/	/	/

The data above was performed on 2025/09/08

WCDMA Band 4:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.82	23.0	1.042	0.425	0.44	/
	1752.6	RMC	/	/	/	/	/	/
Head Left Tilt	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.82	23.0	1.042	0.504	0.53	7#
	1752.6	RMC	/	/	/	/	/	/
Head Right Cheek	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.82	23.0	1.042	0.326	0.34	/
	1752.6	RMC	/	/	/	/	/	/
Head Right Tilt	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.82	23.0	1.042	0.389	0.41	/
	1752.6	RMC	/	/	/	/	/	/
Body Front (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.82	23.0	1.042	0.441	0.46	/
	1752.6	RMC	/	/	/	/	/	/
Body Back (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.82	23.0	1.042	0.315	0.33	/
	1752.6	RMC	/	/	/	/	/	/
Body Left (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.82	23.0	1.042	0.037	0.04	/
	1752.6	RMC	/	/	/	/	/	/
Body Top (10mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.82	23.0	1.042	0.512	0.53	8#
	1752.6	RMC	/	/	/	/	/	/

The data above was performed on 2025/09/07

WCDMA Band 5:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.05	0.05	/
	846.6	RMC	/	/	/	/	/	/
Head Left Tilt	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.023	0.02	/
	846.6	RMC	/	/	/	/	/	/
Head Right Cheek	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.066	0.07	9#
	846.6	RMC	/	/	/	/	/	/
Head Right Tilt	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.026	0.03	/
	846.6	RMC	/	/	/	/	/	/
Body Front (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.074	0.08	/
	846.6	RMC	/	/	/	/	/	/
Body Back (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.068	0.07	/
	846.6	RMC	/	/	/	/	/	/
Body Left (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.021	0.02	/
	846.6	RMC	/	/	/	/	/	/
Body Right (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.07	0.08	/
	846.6	RMC	/	/	/	/	/	/
Body Bottom (10mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.65	23.0	1.084	0.156	0.17	10#
	846.6	RMC	/	/	/	/	/	/

The data above was performed on 2025/09/06

Note:

1. When the 1-g SAR is $\leq 0.8\text{W/Kg}$, 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 All 1.
4. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA/HSPA+ when the maximum average output of each RF channel is less than $\frac{1}{4}$ 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)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	23.43	23.5	1.016	0.708	0.72	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.08	23.5	1.102	0.718	0.79	11#
Head Left Tilt	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	23.43	23.5	1.016	0.453	0.46	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.08	23.5	1.102	0.467	0.51	/
Head Right Cheek	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	23.43	23.5	1.016	0.649	0.66	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.08	23.5	1.102	0.644	0.71	/
Head Right Tilt	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	23.43	23.5	1.016	0.56	0.57	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.08	23.5	1.102	0.527	0.58	/
Body Front (10mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	23.43	23.5	1.016	0.781	0.79	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.08	23.5	1.102	0.624	0.69	/
Body Back (10mm)	1860	20	1RB	23.35	23.5	1.035	0.749	0.78	/
	1880	20	1RB	23.43	23.5	1.016	0.815	0.83	12#
	1900	20	1RB	23.39	23.5	1.026	0.761	0.78	/
	1880	20	50%RB	23.08	23.5	1.102	0.655	0.72	/
	1880	20	100%RB	22.98	23.5	1.127	0.304	0.34	/
Body Left (10mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	23.43	23.5	1.016	0.117	0.12	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.08	23.5	1.102	0.085	0.09	/
Body Top (10mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	23.43	23.5	1.016	0.194	0.20	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	23.08	23.5	1.102	0.193	0.21	/

The data above was performed on 2025/09/08

LTE Band 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
Head Left Cheek	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	23.17	23.5	1.079	0.343	0.37	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	22.81	23.5	1.172	0.336	0.39	/
Head Left Tilt	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	23.17	23.5	1.079	0.514	0.55	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	22.81	23.5	1.172	0.522	0.61	13#
Head Right Cheek	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	23.17	23.5	1.079	0.394	0.43	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	22.81	23.5	1.172	0.417	0.49	/
Head Right Tilt	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	23.17	23.5	1.079	0.438	0.47	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	22.81	23.5	1.172	0.462	0.54	/
Body Front (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	23.17	23.5	1.079	0.48	0.52	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	22.81	23.5	1.172	0.364	0.43	/
Body Back (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	23.17	23.5	1.079	0.436	0.47	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	22.81	23.5	1.172	0.283	0.33	/
Body Left (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	23.17	23.5	1.079	0.05	0.05	/
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	22.81	23.5	1.172	0.036	0.04	/
Body Top (10mm)	1720	20	1RB	/	/	/	/	/	/
	1732.5	20	1RB	23.17	23.5	1.079	0.63	0.68	14#
	1745	20	1RB	/	/	/	/	/	/
	1732.5	20	50%RB	22.81	23.5	1.172	0.485	0.57	/

The data above was performed on 2025/09/07

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
Head Left Cheek	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.45	23.5	1.012	0.334	0.34	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.27	23.5	1.054	0.351	0.37	/
Head Left Tilt	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.45	23.5	1.012	0.187	0.19	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.27	23.5	1.054	0.192	0.20	/
Head Right Cheek	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.45	23.5	1.012	0.643	0.65	15#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.27	23.5	1.054	0.41	0.43	/
Head Right Tilt	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.45	23.5	1.012	0.249	0.25	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.27	23.5	1.054	0.182	0.19	/
Body Front (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.45	23.5	1.012	0.474	0.48	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.27	23.5	1.054	0.485	0.51	16#
Body Back (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.45	23.5	1.012	0.179	0.18	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.27	23.5	1.054	0.175	0.18	/
Body Left (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.45	23.5	1.012	0.046	0.05	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.27	23.5	1.054	0.039	0.04	/
Body Top (10mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	23.45	23.5	1.012	0.478	0.48	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	23.27	23.5	1.054	0.393	0.41	/

The data above was performed on 2025/09/09

LTE Band 41:

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
Head Left Cheek	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	23.31	23.5	1.045	0.268	0.28	/
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	23.04	23.5	1.112	0.267	0.30	/
Head Left Tilt	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	23.31	23.5	1.045	0.288	0.30	/
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	23.04	23.5	1.112	0.291	0.32	/
Head Right Cheek	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	23.31	23.5	1.045	0.605	0.63	17#
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	23.04	23.5	1.112	0.448	0.50	/
Head Right Tilt	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	23.31	23.5	1.045	0.439	0.46	/
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	23.04	23.5	1.112	0.311	0.35	/
Body Front (10mm)	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	23.31	23.5	1.045	0.053	0.06	/
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	23.04	23.5	1.112	0.169	0.19	/
Body Back (10mm)	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	23.31	23.5	1.045	0.189	0.20	18#
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	23.04	23.5	1.112	0.124	0.14	/
Body Left (10mm)	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	23.31	23.5	1.045	0.001	0.01	/
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	23.04	23.5	1.112	0.004	0.01	/

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 Top (10mm)	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	23.31	23.5	1.045	0.08	0.08	/
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	23.04	23.5	1.112	0.08	0.09	/

The data above was performed on 2025/09/09

5G NR N66:

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
Head Left Cheek	1730	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.21	23.5	1.069	0.284	0.30	/
	1760	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.27	23.5	1.054	0.365	0.38	/
Head Left Tilt	1730	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.21	23.5	1.069	0.442	0.47	/
	1760	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.27	23.5	1.054	0.563	0.59	/
Head Right Cheek	1730	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.21	23.5	1.069	0.604	0.65	19#
	1760	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.27	23.5	1.054	0.48	0.51	/
Head Right Tilt	1730	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.21	23.5	1.069	0.457	0.49	/
	1760	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.27	23.5	1.054	0.342	0.36	/
Body Front (10mm)	1730	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.21	23.5	1.069	0.495	0.53	/
	1760	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.27	23.5	1.054	0.38	0.40	/
Body Back (10mm)	1730	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.21	23.5	1.069	0.405	0.43	/
	1760	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.27	23.5	1.054	0.304	0.32	/
Body Left (10mm)	1730	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.21	23.5	1.069	0.044	0.05	/
	1760	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.27	23.5	1.054	0.033	0.03	/
Body Top (10mm)	1730	20	1RB	/	/	/	/	/	/
	1745	20	1RB	23.21	23.5	1.069	0.5	0.53	20#
	1760	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.27	23.5	1.054	0.482	0.51	/

The data above was performed on 2025/09/07

5G NR N71:

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
Head Left Cheek	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.086	0.09	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.07	0.08	/
Head Left Tilt	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.01	0.01	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.01	0.01	/
Head Right Cheek	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.118	0.13	21#
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.01	0.01	/
Head Right Tilt	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.045	0.05	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.027	0.03	/
Body Front (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.199	0.22	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.17	0.18	/
Body Back (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.206	0.22	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.125	0.14	/
Body Left (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.019	0.02	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.012	0.01	/
Body Right (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.072	0.08	/
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.052	0.06	/
Body Bottom (10mm)	673	20	1RB	/	/	/	/	/	/
	680.5	20	1RB	23.72	24.1	1.091	0.21	0.23	22#
	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.74	24.1	1.086	0.187	0.20	/

The data above was performed on 2025/09/06

Note:

1. The frequency range of LTE Band 41 is 2496~ 2690MHz. Per KDB 447498 D01, according to the following formula Calculate N_c is 5.
2. KDB procedures the following should be applied to determine the number of required test channels. The test channels should be evenly spread across the transmission frequency band of each wireless mode.

$$N_c = \text{Round}\{[100(f_{\text{high}} - f_{\text{low}})/f_c]^{0.5} \times (f_c/100)^{0.2}\},$$

where

- N_c is the number of test channels, rounded to nearest integer,
- f_{high} and f_{low} are the highest and lowest channel frequencies within the transmission band,
- f_c is the mid-band channel frequency,
- all frequencies are in MHz.

3. The power class 3 used for LTE Band 41 SAR testing.

Note:

1. When the 1-g SAR is $\leq 0.8\text{W/Kg}$, testing for other channels are optional.
2. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 v02r05 SAR for LTE Devices.
3. KDB 941225 D05 v02r05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is $> 0.5\text{ dB}$ higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is $> 1.45\text{ W/kg}$
4. KDB 941225 D05 v02r05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is $< 1.45\text{ W/kg}$, tests for the remaining required test channels are optional.
5. KDB 941225 D05 v02r05- 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 $\leq 0.8\text{ W/kg}$.
6. KDB 941225 D05 v02r05- 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.
7. KDB 941225 D05 v02r05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> 0.5\text{ dB}$ 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 $> 1.45\text{ W/kg}$.

WIFI 2.4G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	11.93	13.0	1.279	1.008	0.217	0.28	23#
	2462	802.11b	/	/	/	/	/	/	/
Head Left Tilt	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	11.93	13.0	1.279	1.008	0.174	0.22	/
	2462	802.11b	/	/	/	/	/	/	/
Head Right Cheek	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	11.93	13.0	1.279	1.008	0.051	0.07	/
	2462	802.11b	/	/	/	/	/	/	/
Head Right Tilt	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	11.93	13.0	1.279	1.008	0.035	0.05	/
	2462	802.11b	/	/	/	/	/	/	/
Body Front (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	11.93	13.0	1.279	1.008	0.029	0.04	/
	2462	802.11b	/	/	/	/	/	/	/
Body Back (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	11.93	13.0	1.279	1.008	0.044	0.06	24#
	2462	802.11b	/	/	/	/	/	/	/
Body Right (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	11.93	13.0	1.279	1.008	0.002	0.01	/
	2462	802.11b	/	/	/	/	/	/	/
Body Top (10mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	11.93	13.0	1.279	1.008	0.016	0.02	/
	2462	802.11b	/	/	/	/	/	/	/

The data above was performed on 2025/09/09

Note:

1. When the 1-g SAR is $\leq 0.8\text{W/kg}$, 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(802.11g/n) when the highest reported SAR for DSSS(802.11b) is $\leq 1.2\text{ W/kg}$, and the output power for DSSS is not less than that for OFDM.
4. According KDB 248227 D01, 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)".

WIFI 5.2G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	5190	802.11ac40	14.43	14.5	1.016	1.039	0.235	0.25	25#
	5230	802.11ac40	/	/	/	/	/	/	/
Head Left Tilt	5190	802.11ac40	14.43	14.5	1.016	1.039	0.069	0.07	/
	5230	802.11ac40	/	/	/	/	/	/	/
Head Right Cheek	5190	802.11ac40	14.43	14.5	1.016	1.039	0.142	0.15	/
	5230	802.11ac40	/	/	/	/	/	/	/
Head Right Tilt	5190	802.11ac40	14.43	14.5	1.016	1.039	0.119	0.13	/
	5230	802.11ac40	/	/	/	/	/	/	/
Body Front (10mm)	5190	802.11ac40	14.43	14.5	1.016	1.039	0.022	0.02	/
	5230	802.11ac40	/	/	/	/	/	/	/
Body Back (10mm)	5190	802.11ac40	14.43	14.5	1.016	1.039	0.036	0.04	/
	5230	802.11ac40	/	/	/	/	/	/	/
Body Right (10mm)	5190	802.11ac40	14.43	14.5	1.016	1.039	0.055	0.06	26#
	5230	802.11ac40	/	/	/	/	/	/	/
Body Top (10mm)	5190	802.11ac40	14.43	14.5	1.016	1.039	0.024	0.03	/
	5230	802.11ac40	/	/	/	/	/	/	/

The data above was performed on 2025/09/10

Note:

1. When the SAR value is less than half of the limit, testing for low and high channel is 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. For 802.11ac40 mode power is the largest among 802.11a/n/ac, 802.11ac40 mode as initial test configuration is selected to test.
4. According KDB 248227 D01, 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)"

WIFI 5.3G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	5270	802.11ac40	13.16	13.5	1.081	1.039	0.226	0.25	27#
	5310	802.11ac40	/	/	/	/	/	/	/
Head Left Tilt	5270	802.11ac40	13.16	13.5	1.081	1.039	0.2	0.22	/
	5310	802.11ac40	/	/	/	/	/	/	/
Head Right Cheek	5270	802.11ac40	13.16	13.5	1.081	1.039	0.165	0.19	/
	5310	802.11ac40	/	/	/	/	/	/	/
Head Right Tilt	5270	802.11ac40	13.16	13.5	1.081	1.039	0.133	0.15	/
	5310	802.11ac40	/	/	/	/	/	/	/
Body Front (10mm)	5270	802.11ac40	13.16	13.5	1.081	1.039	0.026	0.03	/
	5310	802.11ac40	/	/	/	/	/	/	/
Body Back (10mm)	5270	802.11ac40	13.16	13.5	1.081	1.039	0.039	0.04	/
	5310	802.11ac40	/	/	/	/	/	/	/
Body Right (10mm)	5270	802.11ac40	13.16	13.5	1.081	1.039	0.019	0.02	/
	5310	802.11ac40	/	/	/	/	/	/	/
Body Top (10mm)	5270	802.11ac40	13.16	13.5	1.081	1.039	0.04	0.04	28#
	5310	802.11ac40	/	/	/	/	/	/	/

The data above was performed on 2025/09/10

Note:

1. When the SAR value is less than half of the limit, testing for low and high channel is 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. For 802.11ac40 mode power is the largest among 802.11a/n/ac, 802.11ac40 mode as initial test configuration is selected to test.
4. According KDB 248227 D01, 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)"

WIFI 5.6G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	14.48	14.7	1.005	1.039	0.218	0.24	29#
	5670	802.11ac40	/	/	/	/	/	/	/
Head Left Tilt	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	14.48	14.7	1.005	1.039	0.154	0.17	/
	5670	802.11ac40	/	/	/	/	/	/	/
Head Right Cheek	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	14.48	14.7	1.005	1.039	0.191	0.21	/
	5670	802.11ac40	/	/	/	/	/	/	/
Head Right Tilt	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	14.48	14.7	1.005	1.039	0.188	0.21	/
	5670	802.11ac40	/	/	/	/	/	/	/
Body Front (10mm)	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	14.48	14.7	1.005	1.039	0.026	0.03	/
	5670	802.11ac40	/	/	/	/	/	/	/
Body Back (10mm)	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	14.48	14.7	1.005	1.039	0.056	0.06	/
	5670	802.11ac40	/	/	/	/	/	/	/
Body Right (10mm)	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	14.48	14.7	1.005	1.039	0.025	0.03	/
	5670	802.11ac40	/	/	/	/	/	/	/
Body Top (10mm)	5510	802.11ac40	/	/	/	/	/	/	/
	5550	802.11ac40	14.48	14.7	1.005	1.039	0.056	0.06	30#
	5670	802.11ac40	/	/	/	/	/	/	/

The data above was performed on 2025/09/10

Note:

1. When the SAR value is less than half of the limit, testing for low and high channel is 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. For 802.11ac40 mode power is the largest among 802.11a/n/ac, 802.11ac40 mode as initial test configuration is selected to test.
4. According KDB 248227 D01, 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)"

WIFI 5.8G:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)				
					Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	5755	802.11ac40	12.55	13.0	1.109	1.039	0.337	0.39	31#
	5795	802.11ac40	/	/	/	/	/	/	/
Head Left Tilt	5755	802.11ac40	12.55	13.0	1.109	1.039	0.267	0.31	/
	5795	802.11ac40	/	/	/	/	/	/	/
Head Right Cheek	5755	802.11ac40	12.55	13.0	1.109	1.039	0.253	0.29	/
	5795	802.11ac40	/	/	/	/	/	/	/
Head Right Tilt	5755	802.11ac40	12.55	13.0	1.109	1.039	0.121	0.14	/
	5795	802.11ac40	/	/	/	/	/	/	/
Body Front (10mm)	5755	802.11ac40	12.55	13.0	1.109	1.039	0.031	0.04	/
	5795	802.11ac40	/	/	/	/	/	/	/
Body Back (10mm)	5755	802.11ac40	12.55	13.0	1.109	1.039	0.085	0.10	/
	5795	802.11ac40	/	/	/	/	/	/	/
Body Right (10mm)	5755	802.11ac40	12.55	13.0	1.109	1.039	0.024	0.03	/
	5795	802.11ac40	/	/	/	/	/	/	/
Body Top (10mm)	5755	802.11ac40	12.55	13.0	1.109	1.039	0.138	0.16	32#
	5795	802.11ac40	/	/	/	/	/	/	/

The data above was performed on 2025/09/10

Note:

1. When the SAR value is less than half of the limit, testing for low and high channel is 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. For 802.11ac40 mode power is the largest among 802.11a/n/ac, 802.11ac40 mode as initial test configuration is selected to test.
4. According KDB 248227 D01, 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 ($\sim 10\%$ 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

Head

SAR probe calibration point)	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
1900 Head	GSM 1900	1850.2	Head Right Cheek	1.04	0.988	1.05

Body

SAR probe calibration point)	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
1900 Head	LTE Band 2	1880	Body Back	0.815	0.806	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 DUT HOLDER PERTURBATIONS

In accordance with TCB workshop October 2016:

- 1) SAR perturbation due to test device holders, depending on antenna locations, buttons locations on phones or device, form factor (e.g. dongles etc.), the measured SAR could be influenced by the relative positions of the test device and its holder
- 2) SAR measurement standards have included protocols to evaluate this with a flat phantom, with and without the device holder
- 3) When the highest reported SAR of an antenna is $> 1.2 \text{ W/kg}$, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands in the same exact device and holder positions used for head and body SAR measurements; i.e. same device/button locations in the holder

Per IEEE 1528: 2013/Annex E/E.4.1.1: Device holder perturbation tolerance for a specific test device: Type B
When it is unknown if a device holder perturbs the fields of a test device, the SAR uncertainty shall be assessed with a flat phantom (see Clause 5) by comparing the SAR with and without the device holder according to the following tests:

The SAR tolerance for device holder disturbance is computed using Equation (E.21) and entered in the corresponding row of the appropriate uncertainty table with an assumed rectangular probability distribution and $\nu_i = \infty$ degrees of freedom:

$$SAR_{\text{tolerance}} [\%] = 100 \times \left(\frac{SAR_{\text{w/holder}} - SAR_{\text{w/o holder}}}{SAR_{\text{w/o holder}}} \right) \quad (\text{E.21})$$

The Highest Measured SAR Configuration among all applicable Frequency Band

Head

Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		The Device holder perturbation uncertainty
			With holder	Without holder	
/	/	/	/	/	/

Body

Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		The Device holder perturbation uncertainty
			With holder	Without holder	
/	/	/	/	/	/

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	Simultaneous?	Hotspot?
WWAN(GSM/WCDMA/LTE/5G NR) + Bluetooth	√	×
WWAN(GSM/WCDMA/LTE/5G NR) + 2.4G WLAN	√	√
WWAN(GSM/WCDMA/LTE/5G NR) + 5G WLAN	√	×
WLAN + Bluetooth	×	×

Simultaneous SAR test exclusion considerations:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		Σ SAR < 1.6W/kg
		SAR1	SAR2	
WWAN(GSM/WCDMA/LTE/5G NR) + Bluetooth	Head	1.19	0.21	1.40
WWAN(GSM/WCDMA/LTE/5G NR) + Bluetooth	Body	0.83	0.11	0.94
WWAN(GSM/WCDMA/LTE/5G NR) + 2.4G WLAN	Head	1.19	0.28	1.47
WWAN(GSM/WCDMA/LTE/5G NR) + 2.4G WLAN(Hotspot)	Body	0.83	0.06	0.89
WWAN(GSM/WCDMA/LTE/5G NR) + 5G WLAN	Head	1.19	0.39	1.58
WWAN(GSM/WCDMA/LTE/5G NR) + 5G WLAN	Body	0.83	0.16	0.99

Conclusion:

Sum of SAR: Σ SAR $\leq$ 1.6 W/kg 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	7.5	N	1	1	1	7.5	7.5
Axial Isotropy	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0	0	0.0	0.0
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Modulation response	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions—reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	3.9	R	$\sqrt{3}$	1	1	2.3	2.3
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	$\sqrt{3}$	1	1	2.9	2.9
SAR scaling	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Phantom and tissue parameters							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity measurement	5.5	N	1	0.78	0.71	4.3	3.9
Liquid permittivity measurement	2.9	N	1	0.23	0.26	0.7	0.8
Liquid conductivity—temperature uncertainty	1.7	R	$\sqrt{3}$	0.78	0.71	0.8	0.7
Liquid permittivity—temperature uncertainty	2.7	R	$\sqrt{3}$	0.23	0.26	0.4	0.4
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 CALIBRATION CERTIFICATES

Please Refer to the Attachment.

APPENDIX D RETURN LOSS&IMPEDANCE MEASUREMENT

Please Refer to the Attachment.

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