



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



SAR TEST REPORT

Applicant: TECNO MOBILE LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
SHAN MEI STREET FOTAN NT HONGKONG

FCC ID: 2ADYY-T1201

Product Name: Tablet

Standard(s): 47 CFR Part 2(2.1093)

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2503V09799E-20

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SAR TEST RESULTS SUMMARY

Operation Frequency Bands	Highest Reported 1g SAR (W/kg)		Limits (W/kg)
	Body-Supported (Gap 0mm)		
GSM 850	0.68		1.6
PCS 1900	1.16		
WCDMA Band 2	0.39		
WCDMA Band 4	0.42		
WCDMA Band 5	0.60		
LTE Band 2	0.63		
LTE Band 26&5	0.14		
LTE Band 7	0.79		
LTE Band 12&17	0.43		
LTE Band 13	0.79		
LTE Band 38	1.16		
LTE Band 41	1.19		
LTE Band 66&4	0.65		
Wi-Fi 2.4G	0.30		
Wi-Fi 5.8G	0.31		
Maximum Simultaneous Transmission SAR			
Items	Body-Supported (Gap 0mm)	Hotspot (Gap 0mm)	Limits
Sum SAR(W/kg)	1.56	1.56	1.6
SPLSR	N/A		0.04
EUT Received Date:	2025/07/08		
Tested Date:	2025/08/03 ~ 2025/08/06		
Tested Result:	Pass		

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2503V09799E-20	Original Report	2025/08/10

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Tablet
EUT Model:	T1201
Trade Mark:	Tecno
Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	None
Operation modes:	GSM Voice, GPRS/EDGE Data, WCDMA(R99 (Voice+Data), HSDPA/HSUPA/HSPA+), FDD-LTE, TDD-LTE, WLAN, Bluetooth
Frequency Band:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 4: 1710-1755MHz(TX) ; 2110-2155 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) LTE Band 4: 1710-1755MHz(TX) ; 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX); 2620-2690 MHz(RX) LTE Band 12: 699-716 MHz(TX); 729-746 MHz(RX) LTE Band 13: 777-787 MHz(TX); 746-756 MHz(RX) LTE Band 17: 704-716 MHz(TX); 734-746 MHz(RX) LTE Band 26: 814-849 MHz(TX); 859-894 MHz(RX) LTE Band 38: 2570-2620 MHz(TX/RX) LTE Band 41: 2496-2690 MHz(TX/RX) LTE Band 66: 1710-1780 MHz(TX) ; 2110-2180 MHz(RX) WLAN 2.4G: 2412 MHz-2462 MHz(TX/RX) WLAN 5.2G: 5150 MHz-5250 MHz(TX/RX) WLAN 5.3G: 5250-5350 MHz(TX/RX) WLAN 5.6G: 5470-5725MHz(TX/RX) WLAN 5.8G: 5725 MHz-5850 MHz(TX/RX) Bluetooth: 2402 MHz-2480 MHz(TX/RX) BLE 1M: 2402 MHz-2480 MHz(TX/RX) BLE 2M: 2404 MHz-2478 MHz(TX/RX)
Dimensions (L*W*H):	279 mm (L) * 174 mm (W) * 7 mm (H)
Rated Input Voltage:	DC 3.86 V from Rechargeable Battery
Serial Number:	362E-1
Normal Operation:	Body Supported

1.2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528-2013, the following FCC Published RF exposure KDB procedures:

KDB 447498 D01 General RF Exposure Guidance v06
KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v02r05
KDB 616217 D04 SAR for laptop and tablets v01r02
KDB 248227 D01 802.11 Wi-Fi SAR v02r02

TCB Workshop April 2019: RF Exposure Procedures

1.3 SAR Limits

FCC Limit

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

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

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

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

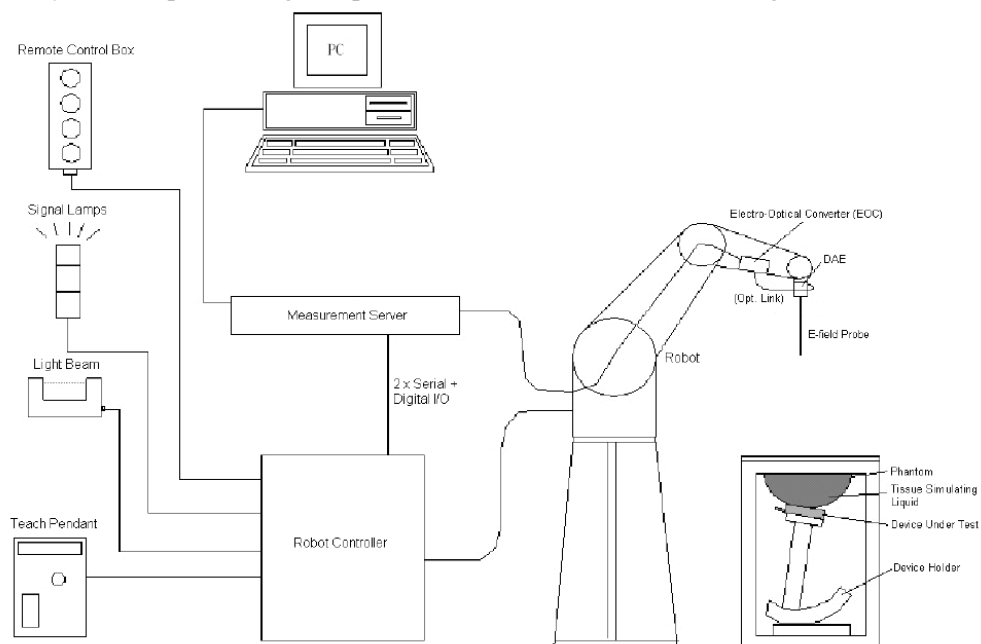
2. SAR MEASUREMENT SYSTEM

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



DASY5 System Description

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



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

DASY5 Measurement Server

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



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

Data Acquisition Electronics

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

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

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

ES3DV3 E-Field Probes

Frequency	10 MHz - 4 GHz Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	5 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: 3.9 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 2.0 mm
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones
Compatibility	DASY3, DASY4, DASY52, DASY6, DASY8 SAR, EASY6, EASY4/MRI

EX3DV4 E-Field Probes

Frequency	4 MH - 10 GHz Linearity: ± 0.2 dB (30 MHz to 10 GHz)
Directivity	± 0.1 dB in TSL (rotation around probe axis)
Dynamic Range	Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	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, DASY6, DASY8 SAR, EASY6, EASY4/MRI

SAM Twin Phantom

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

- _ Left Head
- _ Right Head
- _ Flat phantom

The phantom table for the DASY systems based on the robots have the size of 100 x 50 x 85 cm (L x W x H). For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)



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

Robots

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

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

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

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 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

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

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 $\pm$ 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm $\pm$ 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
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 $\leq$ 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 10mm, 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

			$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> 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 x 7 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 IEEE 1528-2013

Recommended Tissue Dielectric Parameters for Head liquid

Table 3—Target dielectric properties of head tissue-equivalent material in the 300 MHz to 6000 MHz frequency range

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
1450	40.5	1.20
1500	40.4	1.23
1640	40.2	1.31
1750	40.1	1.37
1800	40.0	1.40
1900	40.0	1.40
2000	40.0	1.40
2100	39.8	1.49
2300	39.5	1.67
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27
6000	35.1	5.48

NOTE—For convenience, permittivity and conductivity values at some frequencies that are not part of the original data from Drossos et al. [B60] or the extension to 5800 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 6000 MHz that were linearly extrapolated from the values at 3000 MHz and 5800 MHz.

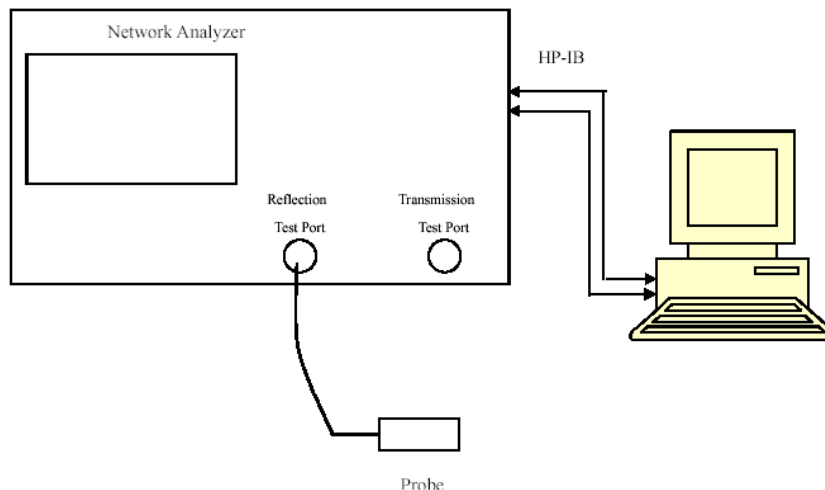
3. EQUIPMENT LIST AND CALIBRATION

3.1 Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.10	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1567	NCR	NCR
Data Acquisition Electronics	DAE4	1354	2024/12/3	2025/12/2
E-Field Probe	ES3DV3	3157	2024/11/22	2025/11/21
E-Field Probe	EX3DV4	3701	2024/10/17	2025/10/16
Mounting Device	MD4HHTV5	BJPCTC0152	NCR	NCR
Twin SAM	Twin SAM V5.0	1412	NCR	NCR
Dipole, 750 MHz	D750V3	1230	2023/3/24	2026/3/23
Dipole, 1750 MHz	D1750V2	1200	2023/3/27	2026/3/26
Dipole, 1900 MHz	D1900V2	5d251	2023/3/27	2026/3/26
Dipole, 2450 MHz	D2450V2	1102	2023/3/27	2026/3/26
Dipole, 2600 MHz	D2600V2	1206	2023/3/27	2026/3/26
Dipole, 5GHz	D5GHzV2	1245	2023/8/23	2026/8/22
Simulated Tissue Liquid Head(500-9500 MHz)	HBBL600-10000V6	220420-2	Each Time	/
Network Analyzer	8753B	2828A00170	2024/10/17	2025/10/16
Dielectric assessment kit	1319	SM DAK 040 CA	NCR	NCR
MXG Vector Signal Generator	N5182B	MY51350142	2025/1/9	2026/1/8
Power Meter	ML2495A	1106009	2024/8/29	2025/8/28
USB Average Power Sensor	U2001H	MY50000432	2025/3/31	2026/3/30
Power Amplifier	ZHL-5W-202-S+	416402204	NCR	NCR
Power Amplifier	ZVE-6W-83+	637202210	NCR	NCR
Directional Coupler	441493	520Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
Thermometer	DTM3000	3892	2025/3/31	2026/3/30
Thermo-hygrometer	HTC-1	NA	2025/3/31	2026/3/30
Radio Communication Analyzer	MT8820C	620118	2024/10/10	2025/10/9
Spectrum Analyzer	FSU26	100147	2025/3/31	2026/3/30

4. SAR MEASUREMENT SYSTEM VERIFICATION

4.1 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)	$\Delta\epsilon_r$	$\Delta\sigma$	
704	Simulated Tissue Liquid Head	43.115	0.884	42.15	0.89	2.29	-0.67	± 5
707.5	Simulated Tissue Liquid Head	43.047	0.892	42.13	0.89	2.18	0.22	± 5
711	Simulated Tissue Liquid Head	42.916	0.897	42.11	0.89	1.91	0.79	± 5
750	Simulated Tissue Liquid Head	42.794	0.904	41.9	0.89	2.13	1.57	± 5
782	Simulated Tissue Liquid Head	42.631	0.909	41.75	0.89	2.11	2.13	± 5
821.5	Simulated Tissue Liquid Head	42.243	0.914	41.56	0.9	1.64	1.56	± 5
824.2	Simulated Tissue Liquid Head	42.206	0.916	41.55	0.9	1.58	1.78	± 5
826.4	Simulated Tissue Liquid Head	42.194	0.917	41.54	0.9	1.57	1.89	± 5
831.5	Simulated Tissue Liquid Head	42.036	0.925	41.52	0.9	1.24	2.78	± 5
836.6	Simulated Tissue Liquid Head	41.876	0.934	41.5	0.9	0.91	3.78	± 5
841.5	Simulated Tissue Liquid Head	41.668	0.941	41.5	0.91	0.4	3.41	± 5
846.6	Simulated Tissue Liquid Head	41.615	0.946	41.5	0.91	0.28	3.96	± 5
848.8	Simulated Tissue Liquid Head	41.593	0.947	41.5	0.91	0.22	4.07	± 5

*Liquid Verification above was performed on 2025/08/04.

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	41.092	1.326	40.13	1.35	2.4	-1.78	± 5
1720	Simulated Tissue Liquid Head	40.894	1.332	40.13	1.35	1.9	-1.33	± 5
1732.6	Simulated Tissue Liquid Head	40.747	1.347	40.12	1.36	1.56	-0.96	± 5
1745	Simulated Tissue Liquid Head	40.573	1.353	40.1	1.37	1.18	-1.24	± 5
1750	Simulated Tissue Liquid Head	40.505	1.361	40.1	1.37	1.01	-0.66	± 5
1752.6	Simulated Tissue Liquid Head	40.504	1.379	40.09	1.37	1.03	0.66	± 5
1770	Simulated Tissue Liquid Head	40.488	1.394	40.06	1.38	1.07	1.01	± 5

*Liquid Verification above was performed on 2025/08/03.

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	40.065	1.393	40	1.4	0.16	-0.5	± 5
1852.4	Simulated Tissue Liquid Head	39.916	1.394	40	1.4	-0.21	-0.43	± 5
1860	Simulated Tissue Liquid Head	39.799	1.411	40	1.4	-0.5	0.79	± 5
1880	Simulated Tissue Liquid Head	39.449	1.419	40	1.4	-1.38	1.36	± 5
1900	Simulated Tissue Liquid Head	39.012	1.425	40	1.4	-2.47	1.79	± 5
1907.6	Simulated Tissue Liquid Head	38.808	1.436	40	1.4	-2.98	2.57	± 5
1909.8	Simulated Tissue Liquid Head	38.789	1.439	40	1.4	-3.03	2.79	± 5

*Liquid Verification above was performed on 2025/08/04.

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	39.992	1.748	39.28	1.77	1.81	-1.24	± 5
2437	Simulated Tissue Liquid Head	39.761	1.805	39.23	1.79	1.35	0.84	± 5
2450	Simulated Tissue Liquid Head	39.612	1.815	39.2	1.8	1.05	0.83	± 5
2462	Simulated Tissue Liquid Head	39.544	1.829	39.18	1.81	0.93	1.05	± 5
2506	Simulated Tissue Liquid Head	39.424	1.864	39.13	1.86	0.75	0.22	± 5
2510	Simulated Tissue Liquid Head	39.375	1.869	39.12	1.86	0.65	0.48	± 5
2535	Simulated Tissue Liquid Head	39.262	1.871	39.09	1.89	0.44	-1.01	± 5
2549.5	Simulated Tissue Liquid Head	39.085	1.887	39.07	1.91	0.04	-1.2	± 5

*Liquid Verification above was performed on 2025/08/05.

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)	
2560	Simulated Tissue Liquid Head	38.813	1.905	39.05	1.92	-0.61	-0.78	± 5
2580	Simulated Tissue Liquid Head	38.676	1.939	39.03	1.94	-0.91	-0.05	± 5
2593	Simulated Tissue Liquid Head	38.616	1.962	39.01	1.95	-1.01	0.62	± 5
2595	Simulated Tissue Liquid Head	38.549	1.999	39.01	1.95	-1.18	2.51	± 5
2600	Simulated Tissue Liquid Head	38.405	2.012	39	1.96	-1.53	2.65	± 5
2610	Simulated Tissue Liquid Head	38.306	2.021	38.99	1.97	-1.75	2.59	± 5
2636.5	Simulated Tissue Liquid Head	38.178	2.028	38.95	2	-1.98	1.4	± 5
2680	Simulated Tissue Liquid Head	38.086	2.074	38.9	2.05	-2.09	1.17	± 5

*Liquid Verification above was performed on 2025/08/05.

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)	
5745	Simulated Tissue Liquid Head	35.294	5.288	35.36	5.22	-0.19	1.3	± 5
5750	Simulated Tissue Liquid Head	35.149	5.297	35.35	5.22	-0.57	1.48	± 5
5785	Simulated Tissue Liquid Head	34.944	5.385	35.32	5.26	-1.06	2.38	± 5
5825	Simulated Tissue Liquid Head	34.743	5.391	35.28	5.3	-1.52	1.72	± 5

*Liquid Verification above was performed on 2025/08/06.

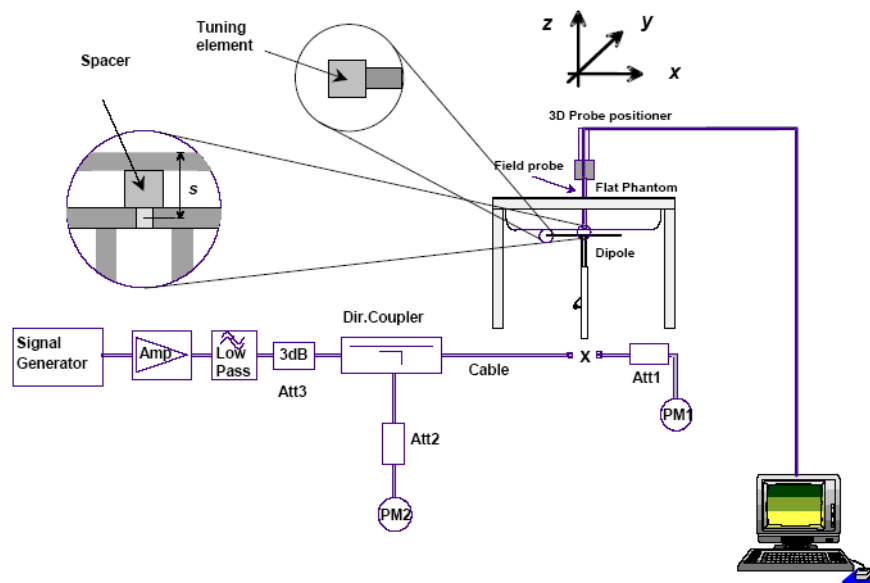
4.2 System Accuracy Verification

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 $1\,000 \text{ MHz} < f \leq 3\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $3\,000 \text{ MHz} < f \leq 6\,000 \text{ MHz}$.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)	Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2025/08/04	750 MHz	Simulated Tissue Liquid Head	100	1g 0.842	8.42	8.49	-0.82	± 10
2025/08/03	1750 MHz	Simulated Tissue Liquid Head	100	1g 3.84	38.4	35.8	7.26	± 10
2025/08/04	1900 MHz	Simulated Tissue Liquid Head	100	1g 4.12	41.2	38.9	5.91	± 10
2025/08/05	2450 MHz	Simulated Tissue Liquid Head	100	1g 5.18	51.8	50.9	1.77	± 10
2025/08/05	2600 MHz	Simulated Tissue Liquid Head	100	1g 5.72	57.2	56	2.14	± 10
2025/08/06	5750 MHz	Simulated Tissue Liquid Head	100	1g 7.68	76.8	77.8	-1.29	± 10

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

4.3 SAR SYSTEM VALIDATION DATA

System Performance 750 MHz Head

DUT: D750V3; Type: 750 MHz; Serial: 1230

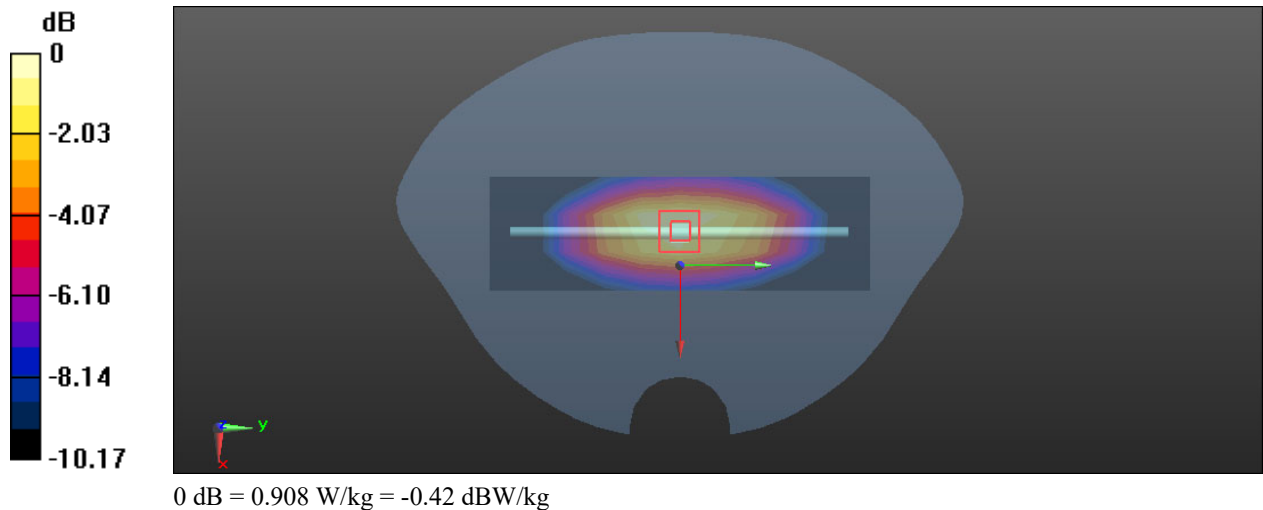
Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 42.794$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(6.45, 6.45, 6.45) @750 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.904 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.82 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.842 W/kg; SAR(10 g) = 0.551 W/kg
Smallest distance from peaks to all points 3 dB below = 18.7 mm
Ratio of SAR at M2 to SAR at M1 = 67%
Maximum value of SAR (measured) = 0.908 W/kg



System Performance 1750 MHz Head**DUT: D1750V2; Type: 1750 MHz; Serial: 1200**

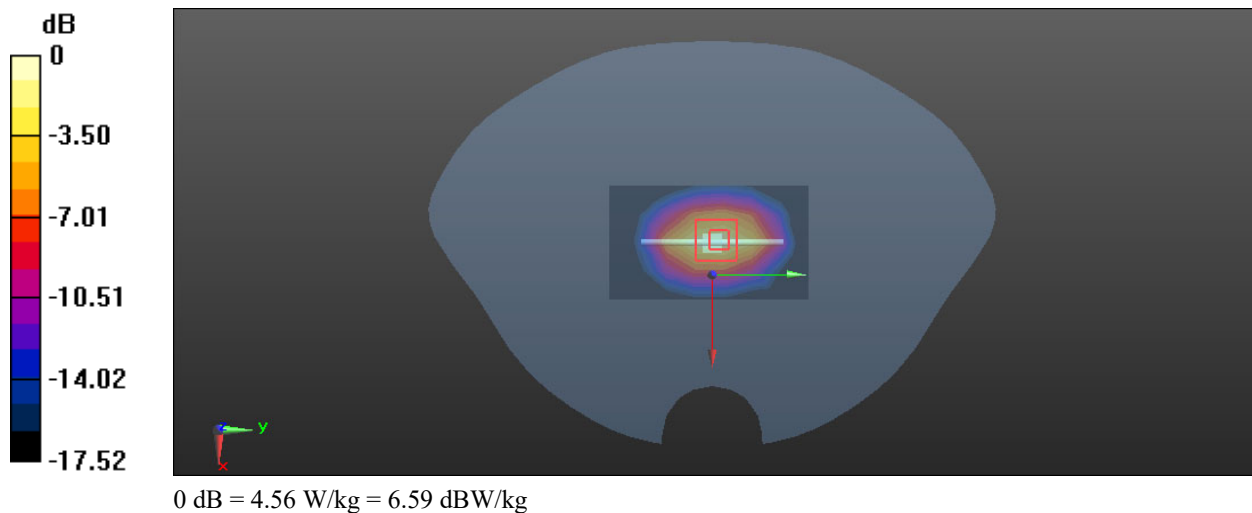
Communication System: CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1750$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 40.505$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(5.41, 5.41, 5.41) @1750 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.95 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.82 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 6.50 W/kg
SAR(1 g) = 3.84 W/kg; SAR(10 g) = 1.97 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 60.5%
Maximum value of SAR (measured) = 4.56 W/kg



System Performance 1900MHz Head**DUT: D1900V2; Type: 1900 MHz; Serial: 5d251**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 39.012$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(5.15, 5.15, 5.15) @1900 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.52 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.73 V/m; Power Drift = -0.11 dB

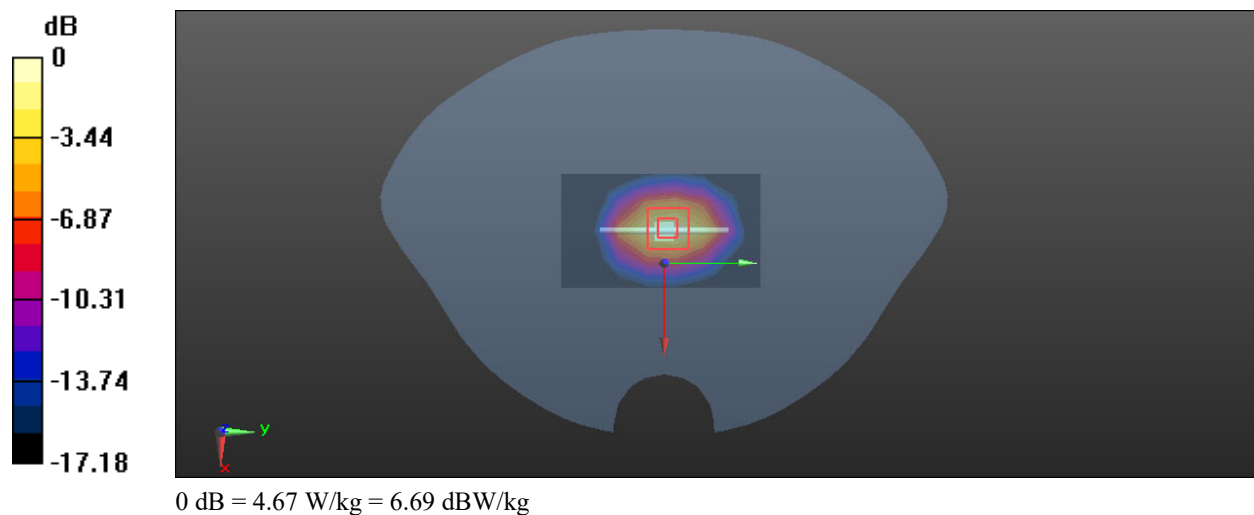
Peak SAR (extrapolated) = 7.09 W/kg

SAR(1 g) = 4.12 W/kg; SAR(10 g) = 2.14 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 59.3%

Maximum value of SAR (measured) = 4.67 W/kg



System Performance 2450 MHz Head**DUT: D2450V2; Type: 2450 MHz; Serial: 1102**

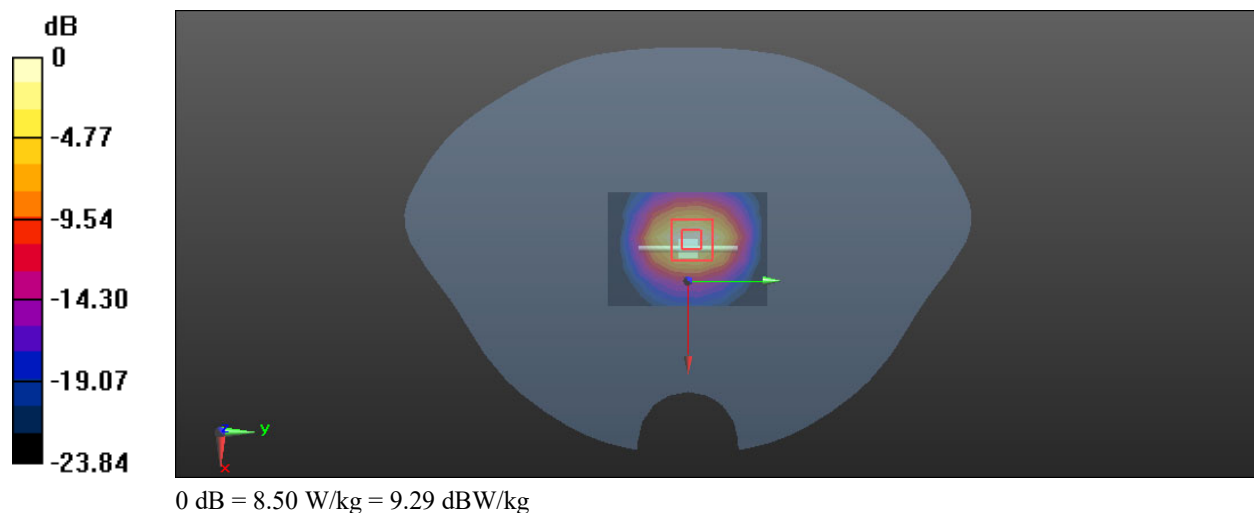
Communication System: CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.815$ S/m; $\epsilon_r = 39.612$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(4.75, 4.75, 4.75) @2450 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection);
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 8.14 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 63.47 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 10.4 W/kg
SAR(1 g) = 5.18 W/kg; SAR(10 g) = 2.38 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 50.3%
Maximum value of SAR (measured) = 8.50 W/kg



System Performance 2600 MHz Head**DUT: D2600V2; Type: 2600 MHz; Serial: 1206**

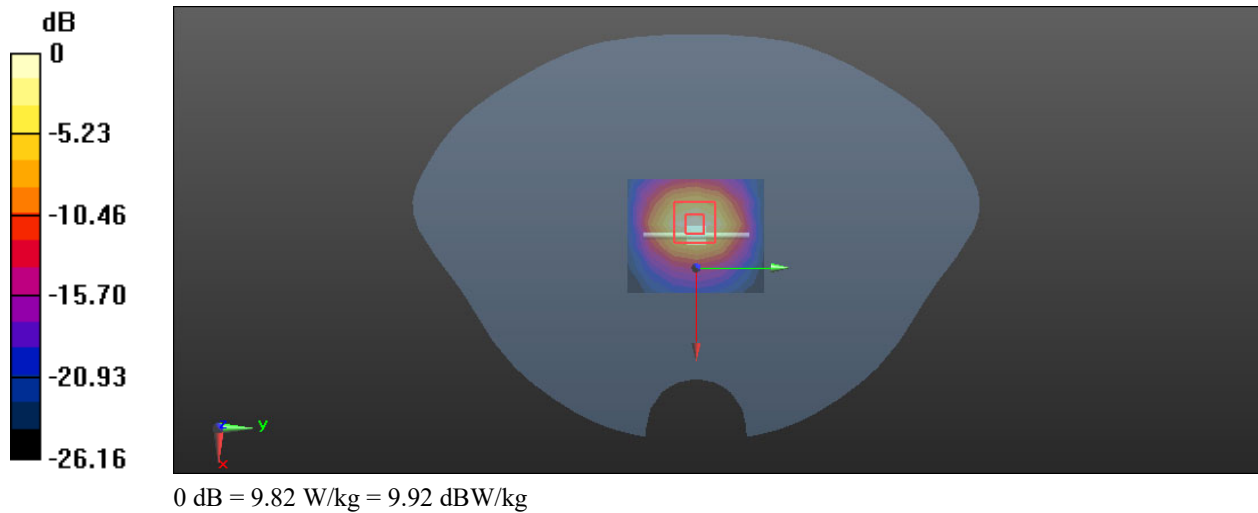
Communication System: CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 38.405$; $\rho = 1000$ kg/m³;
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(4.55, 4.55, 4.55) @2600 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 10.0 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 61.17 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 12.8 W/kg
SAR(1 g) = 5.72 W/kg; SAR(10 g) = 2.56 W/kg
Smallest distance from peaks to all points 3 dB below = 8.6 mm
Ratio of SAR at M2 to SAR at M1 = 45%
Maximum value of SAR (measured) = 9.82 W/kg



System Performance 5750MHz Head**DUT: D5GHzV2; Type: 5750MHz; Serial: SN: 1245**

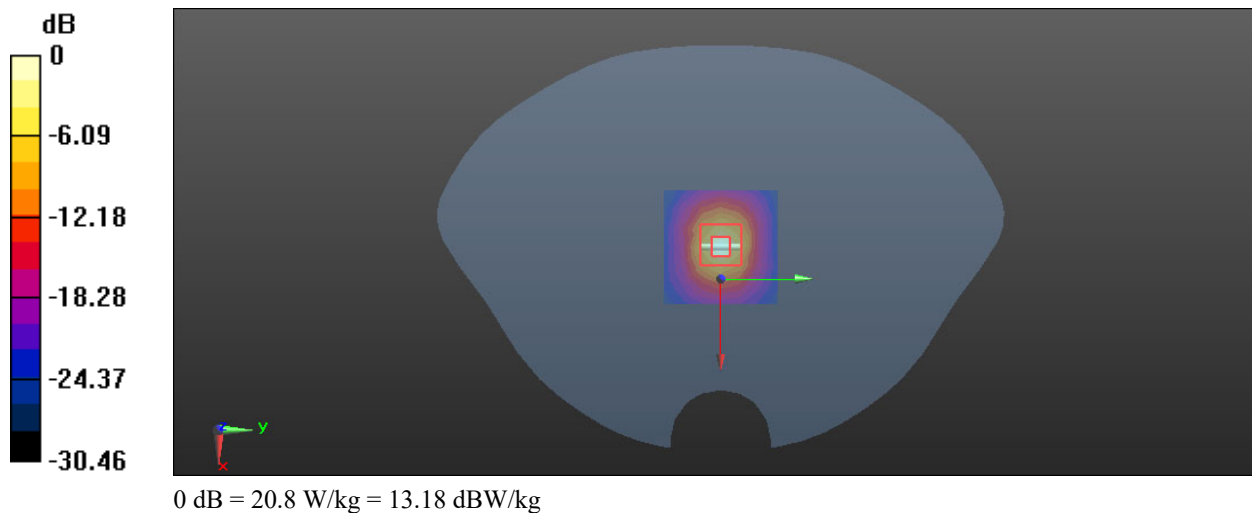
Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5750$ MHz; $\sigma = 5.297$ S/m; $\epsilon_r = 35.149$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

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 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- 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) = 20.8 W/kg

Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 39.86 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 36.8 W/kg
SAR(1 g) = 7.68 W/kg; SAR(10 g) = 2.09 W/kg
Smallest distance from peaks to all points 3 dB below = 7.1 mm
Ratio of SAR at M2 to SAR at M1 = 48.8%
Maximum value of SAR (measured) = 20.8 W/kg



5. EUT TEST STRATEGY AND METHODOLOGY

5.1 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.

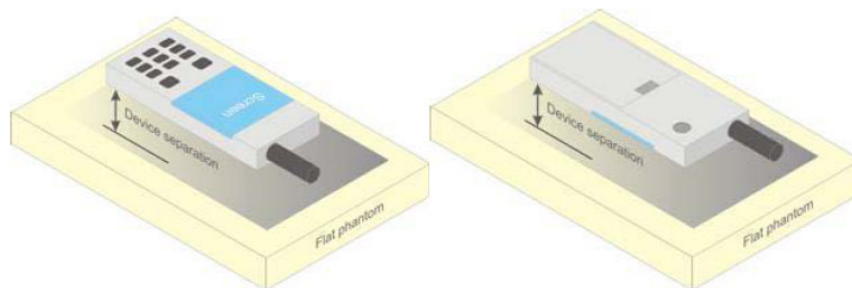


Figure 5 – Test positions for body-worn devices

5.2 Test Distance for SAR Evaluation

In this case the EUT(Equipment Under Test) is set directly against the phantom, the test distance is 0mm.

5.3 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.

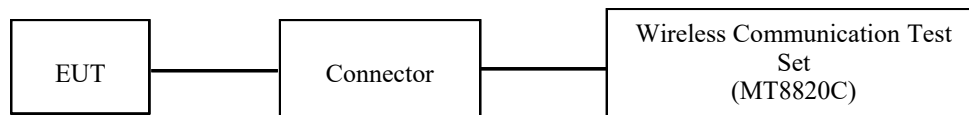
All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

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.

6. CONDUCTED OUTPUT POWER MEASUREMENT

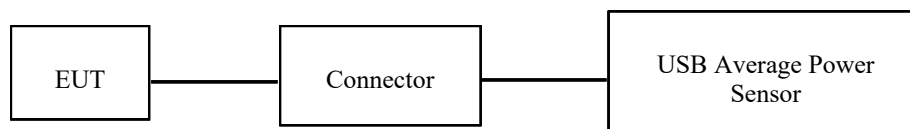
6.1 Test Procedure

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



GSM/WCDMA/LTE

The RF output of the transmitter was connected to the input port of the USB Average Power Sensor through Connector.



BT/WLAN

6.2 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
The maximum power was configured per 3GPP Standard for each operation modes as below setting:	
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 desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]	
Channel Type > Off	
P0 > 4 dB	
Slot Config> Unchanged (if already set under MS signal)	
TCH > choose desired test channel	
Hopping > Off	
Main Timeslot > 3	
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)	
Bit Stream > 2E9-1 PSR Bit Stream	
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input	
Connection Press Sign	

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 / β_d	8/15

WCDMA 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	1 /15	15/15	8/15	4/15
	β_d (SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
HSDPA Specific Settings	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	$A_{hs}=\beta_{hs}/\beta_c$	30/15			

WCDMA 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		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 k ps	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 (Note3)	β_d	β_{HS} (Note1)	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

LTE (FDD):

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

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

Modulation	Channel bandwidth / Transmission bandwidth (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
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

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

Network Signalling value	Requirements (sub-clause)	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	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

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	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
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 Band 41&38 SAR test, that is 63.33%(1:1.58)for duty cycle.

6.3 Maximum Target Output Power

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
GSM 850	32.9	32.9	32.9
GPRS 1 TX Slot	32.9	32.9	32.9
GPRS 2 TX Slot	32.3	32.3	32.3
GPRS 3 TX Slot	30.7	30.7	30.7
GPRS 4 TX Slot	29.6	29.6	29.6
EDGE 1 TX Slot	29.8	29.8	29.8
EDGE 2 TX Slot	28.9	28.9	28.9
EDGE 3 TX Slot	28	28	28
EDGE 4 TX Slot	25.7	25.7	25.7
GSM 1900	29.5	29.5	29.5
GPRS 1 TX Slot	30.6	30.6	30.6
GPRS 2 TX Slot	29.7	29.7	29.7
GPRS 3 TX Slot	27.7	27.7	27.7
GPRS 4 TX Slot	26.4	26.4	26.4
EDGE 1 TX Slot	26.5	26.5	26.5
EDGE 2 TX Slot	25.5	25.5	25.5
EDGE 3 TX Slot	24.7	24.7	24.7
EDGE 4 TX Slot	23.7	23.7	23.7
WCDMA Band 2	21.5	21.5	21.5
HSDPA	20.8	20.8	20.8
HSUPA	21.6	21.6	21.6
HSPA+	21.4	21.4	21.4
WCDMA Band 4	21.9	21.9	21.9
HSDPA	21.3	21.3	21.3
HSUPA	21.8	21.8	21.8
HSPA+	21.1	21.1	21.1
WCDMA Band 5	22.7	22.7	22.7
HSDPA	21.8	21.8	21.8
HSUPA	22.5	22.5	22.5
HSPA+	22.2	22.2	22.2
LTE Band 2	22.5	22.5	22.5
LTE Band 4	22.5	22.5	22.5
LTE Band 5	22.5	22.5	22.5
LTE Band 7	22	22	22
LTE Band 12	23	23	23
LTE Band 13	22.8	22.8	22.8
LTE Band 17	23	23	23

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
LTE Band 26	22.8	22.8	22.8
LTE Band 38	22.3	22.3	22.3
LTE Band 41	22.3	22.3	22.3
LTE Band 66	23.2	23.2	23.2
WLAN 2.4G(802.11b) Chain 0	15.2	14.6	14.6
WLAN 2.4G(802.11g) Chain 0	11.1	10.5	10.5
WLAN 2.4G(802.11n ht20) Chain 0	11	10.4	10.4
WLAN 2.4G(802.11b) Chain 1	15.5	15.5	15.5
WLAN 2.4G(802.11g) Chain 1	11.6	11.6	11.6
WLAN 2.4G(802.11n ht20) Chain 1	11.6	11.6	11.6
WLAN5.2G(802.11a)	7.4	7.4	6.6
WLAN5.2G(802.11n ht20)	7.2	7.2	6.5
WLAN5.2G(802.11n ht40)	7.3	/	7.3
WLAN5.3G(802.11a)	6.8	6.8	6.8
WLAN5.3G(802.11n ht20)	6.6	6.6	6.6
WLAN5.3G(802.11n ht40)	6.6	/	6.6
WLAN5.6G(802.11a)	7.2	7.2	7.2
WLAN5.6G(802.11n ht20)	7.0	7.0	7.0
WLAN5.6G(802.11n ht40)	7.6	7.6	7.6
WLAN5.8G(802.11a)	10	10.6	11.2
WLAN5.8G(802.11n ht20)	9.7	8.9	11
WLAN5.8G(802.11n ht40)	10.2	/	10.7
Bluetooth BDR(GFSK) Chain 0	4.0	4.5	3.0
Bluetooth EDR($\pi/4$ -DQPSK) Chain 0	3.0	3.5	2.0
Bluetooth EDR(8DPSK) Chain 0	2.5	3.5	2.0
BLE 1M Chain 0	-3.0	-3.5	-5.0
BLE 2M Chain 0	-4.0	-4.0	-5.0
Bluetooth BDR(GFSK) Chain 1	3.5	4.5	4.0
Bluetooth EDR($\pi/4$ -DQPSK) Chain 1	2.5	3.5	3.0
Bluetooth EDR(8DPSK) Chain 1	2.0	3.5	3.0
BLE 1M Chain 1	-3.5	-2.5	-3.0
BLE 2M Chain 1	-3.5	-2.5	-3.0

Note: The Maximum Target Power for LTE bands corresponds to their maximum power in QPSK modes with maximum bandwidth.

6.4 Test Results:**GSM:**

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
GSM 850	128	824.2	32.51
	190	836.6	32.72
	251	848.8	32.82
PCS 1900	512	1850.2	28.68
	661	1880	28.72
	810	1909.8	29.44

GPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	32.83	32.24	30.60	29.50
	190	836.6	32.72	32.16	30.41	29.40
	251	848.8	32.68	31.90	29.98	28.95
PCS 1900	512	1850.2	30.46	29.60	27.64	26.31
	661	1880	29.71	28.98	27.00	25.63
	810	1909.8	29.71	28.85	27.04	25.67

EGPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	29.72	28.79	27.64	25.44
	190	836.6	29.66	28.62	26.81	25.19
	251	848.8	29.68	28.27	27.86	25.57
PCS 1900	512	1850.2	26.43	25.43	24.56	23.64
	661	1880	25.86	24.59	23.85	22.10
	810	1909.8	25.58	24.54	23.74	22.88

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 GSM

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
GSM 850	128	824.2	23.51
	190	836.6	23.72
	251	848.8	23.82
PCS 1900	512	1850.2	19.68
	661	1880	19.72
	810	1909.8	20.44

The time based average power for GPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	23.83	26.24	26.35	26.5
	190	836.6	23.72	26.16	26.16	26.4
	251	848.8	23.68	25.9	25.73	25.95
PCS 1900	512	1850.2	21.46	23.6	23.39	23.31
	661	1880	20.71	22.98	22.75	22.63
	810	1909.8	20.71	22.85	22.79	22.67

The time based average power for EGPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	20.72	22.79	23.39	22.44
	190	836.6	20.66	22.62	22.56	22.19
	251	848.8	20.68	22.27	23.61	22.57
PCS 1900	512	1850.2	17.43	19.43	20.31	20.64
	661	1880	16.86	18.59	19.6	19.1
	810	1909.8	16.58	18.54	19.49	19.88

Note:

1. Radio Communication Analyzer (MT8820C) was used for the measurement of GSM peak and average output power for active timeslots.
2. For GSM voice, 1 timeslot has been activated with power level 5 (850 MHz band) and 0 (1900 MHz band).
3. For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).
4. For EGPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 6(850 MHz band) and 5(1900 MHz band).
5. According to KDB941225 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 R99	21.38	21.42	21.44
HSDPA Subtest 1	20.72	20.59	20.74
HSDPA Subtest 2	20.51	20.51	20.41
HSDPA Subtest 3	19.92	19.98	20.05
HSDPA Subtest 4	19.98	20.03	19.80
HSUPA Subtest 1	21.10	21.03	20.92
HSUPA Subtest 2	21.43	21.20	21.10
HSUPA Subtest 3	20.71	20.51	20.57
HSUPA Subtest 4	21.34	21.51	21.29
HSUPA Subtest 5	20.57	20.54	20.49
HSPA+ Subtest 1	21.31	21.26	21.25

WCDMA Band 4:

Test Mode	Conducted Average Output Power(dBm)		
	Lowest Channel	Middle Channel	Highest Channel
WCDMA R99	21.19	21.78	21.53
HSDPA Subtest 1	20.65	21.20	21.11
HSDPA Subtest 2	21.09	21.02	20.94
HSDPA Subtest 3	20.58	20.65	20.47
HSDPA Subtest 4	20.51	20.59	20.57
HSUPA Subtest 1	20.89	20.80	20.88
HSUPA Subtest 2	21.17	21.25	21.28
HSUPA Subtest 3	20.56	20.50	20.49
HSUPA Subtest 4	21.65	21.36	21.33
HSUPA Subtest 5	20.57	20.51	20.49
HSPA+ Subtest 1	20.99	20.99	21.03

WCDMA Band 5:

Test Mode	Conducted Average Output Power(dBm)		
	Lowest Channel	Middle Channel	Highest Channel
WCDMA R99	22.63	22.51	22.57
HSDPA Subtest 1	21.64	21.53	21.69
HSDPA Subtest 2	21.45	21.53	21.39
HSDPA Subtest 3	21.04	20.92	21.07
HSDPA Subtest 4	21.06	20.93	20.95
HSUPA Subtest 1	21.99	21.89	21.88
HSUPA Subtest 2	22.27	22.07	22.15
HSUPA Subtest 3	21.54	21.53	21.63
HSUPA Subtest 4	22.24	22.19	22.43
HSUPA Subtest 5	21.63	21.51	21.60
HSPA+ Subtest 1	22.12	22.04	21.78

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	21.79	21.95	21.94
		RB1#3	21.92	21.91	21.92
		RB1#5	21.8	21.95	21.8
		RB3#0	21.99	22.05	21.92
		RB3#3	22.02	21.98	21.97
		RB6#0	21.18	21.14	21.15
	16-QAM	RB1#0	20.72	21.06	21.32
		RB1#3	20.8	21.25	21.26
		RB1#5	20.82	21.07	21.14
		RB3#0	21.15	20.99	21.26
		RB3#3	21.08	21.09	21.31
		RB6#0	20.2	20.24	20.09
3M	QPSK	RB1#0	21.77	21.55	21.83
		RB1#8	22.03	21.56	21.91
		RB1#14	21.92	21.38	21.71
		RB6#0	21.02	20.98	21
		RB6#9	21.09	20.96	20.99
		RB15#0	21.04	21.06	21.09
	16-QAM	RB1#0	21.22	20.98	21.02
		RB1#8	21.38	21.02	21.12
		RB1#14	21.2	20.92	20.98
		RB6#0	20.22	20.02	20.01
		RB6#9	20.07	19.99	20.05
		RB15#0	19.99	19.99	20.11
5M	QPSK	RB1#0	22.11	22.05	22.11
		RB1#13	22.2	22.23	22.08
		RB1#24	22.01	22.05	21.92
		RB15#0	21.17	21.11	21.03
		RB15#10	21.27	21.07	21.23
		RB25#0	21.1	21.13	21.12
	16-QAM	RB1#0	21.55	21.88	21.23
		RB1#13	21.65	21.87	21.19
		RB1#24	21.59	21.87	21.04
		RB15#0	20.26	20.22	20.13
		RB15#10	20.35	20.25	20.2
		RB25#0	20.33	20.14	20.14

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	22.16	21.86	22.09
		RB1#25	22.15	21.84	22.03
		RB1#49	22.12	21.8	22.1
		RB25#0	21.13	21.14	21.1
		RB25#25	21.23	21.25	21.09
		RB50#0	21.25	21.2	21.06
	16-QAM	RB1#0	21.5	21.41	21.43
		RB1#25	21.48	21.28	21.38
		RB1#49	21.59	21.31	21.37
		RB25#0	20.35	19.99	20.06
		RB25#25	20.26	20.19	20.28
		RB50#0	20.17	20.18	20.15
15M	QPSK	RB1#0	22.29	21.72	22.06
		RB1#38	22.43	21.85	22.08
		RB1#74	22.27	21.79	22.14
		RB36#0	21.12	21.16	21.2
		RB36#39	21.17	21.26	21.23
		RB75#0	21.29	21.15	21.26
	16-QAM	RB1#0	21.31	21.33	21.3
		RB1#38	21.32	21.3	21.35
		RB1#74	21.27	21.21	21.27
		RB36#0	20.29	20.19	20.18
		RB36#39	20.3	20.25	20.08
		RB75#0	20.27	20.24	20.16
20M	QPSK	RB1#0	22.11	22.12	21.84
		RB1#50	22.4	22.14	22.01
		RB1#99	22.12	21.95	21.78
		RB50#0	21.16	21.04	21.17
		RB50#50	21.16	21.13	21.25
		RB100#0	21.15	21.03	21.1
	16-QAM	RB1#0	20.92	21.18	21.5
		RB1#50	21.22	21.21	21.83
		RB1#99	21.02	21.08	21.55
		RB50#0	20.14	20.07	20.28
		RB50#50	20.32	20.13	20.08
		RB100#0	20.26	20.12	20.12

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	21.94	21.91	21.81
		RB1#3	21.96	21.89	21.80
		RB1#5	22.08	22.03	21.87
		RB3#0	22.16	21.99	21.90
		RB3#3	22.16	22.10	22.05
		RB6#0	21.00	21.01	21.09
	16-QAM	RB1#0	21.11	21.39	20.72
		RB1#3	21.21	21.21	20.70
		RB1#5	21.10	21.37	20.77
		RB3#0	20.99	21.29	21.13
		RB3#3	21.11	21.31	21.04
		RB6#0	20.14	19.97	20.01
3M	QPSK	RB1#0	21.83	21.61	21.90
		RB1#8	21.96	21.66	21.88
		RB1#14	21.97	21.62	21.77
		RB6#0	20.92	21.04	21.06
		RB6#9	21.10	21.09	20.93
		RB15#0	21.04	21.02	21.09
	16-QAM	RB1#0	21.27	21.00	21.03
		RB1#8	21.46	21.10	21.12
		RB1#14	21.33	20.91	21.03
		RB6#0	20.20	19.98	20.12
		RB6#9	20.10	20.20	20.02
		RB15#0	20.05	19.99	20.05
5M	QPSK	RB1#0	22.32	22.16	22.10
		RB1#13	22.19	22.12	22.11
		RB1#24	22.11	22.15	22.15
		RB15#0	21.18	21.08	21.14
		RB15#10	21.12	21.23	21.08
		RB25#0	21.24	21.22	21.23
	16-QAM	RB1#0	21.54	21.97	21.11
		RB1#13	21.62	21.92	21.30
		RB1#24	21.74	21.91	21.13
		RB15#0	20.41	20.26	20.07
		RB15#10	20.39	20.17	20.13
		RB25#0	20.36	20.22	20.26

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	22.29	21.97	22.11
		RB1#25	22.17	21.89	22.12
		RB1#49	22.18	21.92	22.11
		RB25#0	21.11	21.03	21.20
		RB25#25	21.22	21.31	21.17
		RB50#0	21.31	21.12	21.19
	16-QAM	RB1#0	21.53	21.41	21.29
		RB1#25	21.60	21.31	21.41
		RB1#49	21.63	21.31	21.46
		RB25#0	20.39	20.17	20.11
		RB25#25	20.36	20.20	20.29
		RB50#0	20.27	20.21	20.11
15M	QPSK	RB1#0	22.32	21.80	22.15
		RB1#38	22.41	22.02	22.35
		RB1#74	22.38	21.73	22.09
		RB36#0	21.13	21.05	21.24
		RB36#39	21.07	21.22	21.10
		RB75#0	21.16	21.28	21.06
	16-QAM	RB1#0	21.26	21.25	21.32
		RB1#38	21.46	21.42	21.44
		RB1#74	21.40	21.32	21.43
		RB36#0	20.32	20.20	20.05
		RB36#39	20.29	20.21	20.08
		RB75#0	20.07	20.18	20.05
20M	QPSK	RB1#0	22.07	22.18	21.81
		RB1#50	22.32	22.36	22.05
		RB1#99	22.25	22.22	21.90
		RB50#0	21.22	21.09	21.06
		RB50#50	21.21	21.32	21.23
		RB100#0	21.18	21.11	21.04
	16-QAM	RB1#0	21.00	21.15	21.66
		RB1#50	21.21	21.25	21.86
		RB1#99	20.98	21.16	21.60
		RB50#0	20.27	20.23	20.26
		RB50#50	20.38	20.36	20.17
		RB100#0	20.33	20.19	20.28

LTE Band 5:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	22.06	22.17	22.21
		RB1#3	22.16	22.27	22.12
		RB1#5	22.03	22.20	22.09
		RB3#0	22.35	22.18	22.31
		RB3#3	22.40	22.24	22.20
		RB6#0	21.30	21.39	21.31
	16-QAM	RB1#0	21.05	21.41	21.55
		RB1#3	21.22	21.52	21.46
		RB1#5	21.10	21.48	21.59
		RB3#0	21.35	21.28	21.56
		RB3#3	21.41	21.21	21.48
		RB6#0	20.47	20.40	20.23
3M	QPSK	RB1#0	22.10	21.63	22.13
		RB1#8	22.12	21.81	22.24
		RB1#14	22.17	21.81	22.12
		RB6#0	21.41	21.33	21.17
		RB6#9	21.33	21.27	21.34
		RB15#0	21.43	21.24	21.22
	16-QAM	RB1#0	21.34	21.19	21.32
		RB1#8	21.57	21.44	21.27
		RB1#14	21.53	21.21	21.23
		RB6#0	20.49	20.29	20.32
		RB6#9	20.40	20.32	20.37
		RB15#0	20.36	20.22	20.36
5M	QPSK	RB1#0	22.31	22.24	22.30
		RB1#13	22.42	22.34	22.41
		RB1#24	22.39	22.40	22.24
		RB15#0	21.45	21.39	21.25
		RB15#10	21.53	21.49	21.51
		RB25#0	21.44	21.35	21.38
	16-QAM	RB1#0	21.64	22.10	21.48
		RB1#13	21.89	22.24	21.52
		RB1#24	21.76	22.12	21.46
		RB15#0	20.60	20.44	20.34
		RB15#10	20.47	20.44	20.33
		RB25#0	20.36	20.30	20.41

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	22.42	22.12	22.43
		RB1#25	22.37	22.09	22.40
		RB1#49	22.22	22.11	22.37
		RB25#0	21.70	21.84	21.67
		RB25#25	21.65	21.57	21.52
		RB50#0	21.49	21.46	21.44
	16-QAM	RB1#0	21.69	21.56	21.55
		RB1#25	21.78	21.54	21.65
		RB1#49	21.80	21.50	21.71
		RB25#0	20.68	20.28	20.48
		RB25#25	20.70	20.48	20.46
		RB50#0	20.43	20.43	20.42

LTE Band 7:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	21.63	21.67	21.8
		RB1#13	21.72	21.9	21.86
		RB1#24	21.68	21.65	21.68
		RB15#0	20.66	20.74	20.75
		RB15#10	20.74	20.82	20.77
		RB25#0	20.73	20.68	20.85
	16-QAM	RB1#0	20.97	21.35	20.84
		RB1#13	21.26	21.57	20.94
		RB1#24	21.08	21.45	20.77
		RB15#0	19.82	19.74	19.77
		RB15#10	19.96	19.8	19.78
		RB25#0	19.81	19.75	19.85
10M	QPSK	RB1#0	21.64	21.55	21.78
		RB1#25	21.75	21.5	21.89
		RB1#49	21.77	21.42	21.74
		RB25#0	20.77	20.7	20.8
		RB25#25	20.77	20.74	20.78
		RB50#0	20.83	20.86	20.87
	16-QAM	RB1#0	20.99	20.88	20.83
		RB1#25	21.04	20.91	20.95
		RB1#49	21.09	20.9	20.98
		RB25#0	19.87	19.64	19.83
		RB25#25	19.94	19.69	19.87
		RB50#0	19.84	19.69	19.83
15M	QPSK	RB1#0	21.89	21.33	21.68
		RB1#38	21.91	21.43	21.76
		RB1#74	21.83	21.51	21.86
		RB36#0	20.67	20.7	20.76
		RB36#39	20.82	20.76	20.87
		RB75#0	20.83	20.7	20.74
	16-QAM	RB1#0	20.85	20.75	20.89
		RB1#38	20.86	20.85	20.94
		RB1#74	20.89	20.84	20.92
		RB36#0	19.8	19.66	19.67
		RB36#39	19.85	19.68	19.78
		RB75#0	19.68	19.81	19.63

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	RB1#0	21.83	21.61	21.47
		RB1#50	21.94	21.89	21.72
		RB1#99	21.72	21.68	21.54
		RB50#0	20.96	20.92	20.91
		RB50#50	21.33	21.46	21.27
		RB100#0	20.7	20.69	20.7
	16-QAM	RB1#0	20.58	20.59	21.15
		RB1#50	20.71	20.87	21.42
		RB1#99	20.63	20.71	21.18
		RB50#0	19.63	19.82	19.62
		RB50#50	19.77	19.75	19.88
		RB100#0	19.73	19.77	19.71

LTE Band 12:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	22.60	22.69	22.70
		RB1#3	22.53	22.66	22.51
		RB1#5	22.52	22.58	22.69
		RB3#0	22.87	22.75	22.72
		RB3#3	22.89	22.81	22.83
		RB6#0	21.83	21.73	21.70
	16-QAM	RB1#0	21.41	21.95	22.00
		RB1#3	21.53	21.91	22.02
		RB1#5	21.42	21.86	22.07
		RB3#0	21.81	21.73	21.99
		RB3#3	21.83	21.81	22.15
		RB6#0	20.85	21.04	20.83
3M	QPSK	RB1#0	22.57	22.18	22.66
		RB1#8	22.65	22.38	22.50
		RB1#14	22.65	22.27	22.42
		RB6#0	21.67	21.69	21.70
		RB6#9	21.82	21.73	21.74
		RB15#0	21.83	21.77	21.80
	16-QAM	RB1#0	21.89	21.81	21.63
		RB1#8	21.96	21.81	21.87
		RB1#14	21.94	21.74	21.60
		RB6#0	20.92	20.76	20.80
		RB6#9	20.89	20.88	20.94
		RB15#0	20.77	20.80	20.91
5M	QPSK	RB1#0	22.81	22.73	22.76
		RB1#13	22.93	22.83	22.90
		RB1#24	22.81	22.88	22.72
		RB15#0	21.75	21.71	21.85
		RB15#10	21.88	21.95	21.96
		RB25#0	21.73	21.81	21.87
	16-QAM	RB1#0	22.24	22.49	21.85
		RB1#13	22.25	22.65	22.05
		RB1#24	22.34	22.53	21.80
		RB15#0	20.86	20.82	20.85
		RB15#10	21.00	20.95	20.87
		RB25#0	20.87	20.82	21.02

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	22.80	22.58	22.82
		RB1#25	22.89	22.77	22.90
		RB1#49	22.86	22.51	22.86
		RB25#0	22.42	22.35	22.22
		RB25#25	21.93	21.80	21.87
		RB50#0	21.83	21.70	21.88
	16-QAM	RB1#0	22.07	22.00	22.03
		RB1#25	22.16	22.08	22.11
		RB1#49	22.18	22.07	22.17
		RB25#0	20.97	20.63	21.00
		RB25#25	21.16	20.81	20.90
		RB50#0	20.85	20.86	20.89

LTE Band 13:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	22.69	/	22.44
		RB1#13	22.72	/	22.33
		RB1#24	22.74	/	22.57
		RB15#0	21.73	/	21.67
		RB15#10	21.59	/	21.5
		RB25#0	21.16	/	20.94
	16-QAM	RB1#0	22.69	/	22.44
		RB1#13	22.69	/	22.43
		RB1#24	22.68	/	22.32
		RB15#0	21.71	/	21.45
		RB15#10	21.57	/	21.33
		RB25#0	20.62	/	20.27
10M	QPSK	RB1#0	/	22.66	/
		RB1#25	/	22.45	/
		RB1#49	/	22.51	/
		RB25#0	/	21.87	/
		RB25#25	/	22.07	/
		RB50#0	/	21.26	/
	16-QAM	RB1#0	/	22.19	/
		RB1#25	/	21.97	/
		RB1#49	/	22.16	/
		RB25#0	/	21.01	/
		RB25#25	/	21.08	/
		RB50#0	/	20.07	/

LTE Band 17:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	22.62	22.62	22.69
		RB1#13	22.78	22.65	22.81
		RB1#24	22.66	22.67	22.72
		RB15#0	21.7	21.75	21.79
		RB15#10	21.62	21.62	21.57
		RB25#0	21.58	21.73	21.72
	16-QAM	RB1#0	22.45	22.37	21.73
		RB1#13	22.38	22.5	21.71
		RB1#24	22.5	22.47	21.71
		RB15#0	20.69	20.81	20.49
		RB15#10	20.88	20.72	20.77
		RB25#0	20.66	20.67	20.75
10M	QPSK	RB1#0	22.69	22.31	22.67
		RB1#25	22.77	22.3	22.63
		RB1#49	22.68	22.43	22.71
		RB25#0	21.81	21.78	21.75
		RB25#25	21.6	21.54	21.68
		RB50#0	21.69	21.58	21.63
	16-QAM	RB1#0	22.13	21.8	21.99
		RB1#25	22.15	21.83	22
		RB1#49	22.15	21.94	22.03
		RB25#0	20.66	20.67	20.75
		RB25#25	20.96	20.75	20.87
		RB50#0	20.59	20.64	20.77

LTE Band 26:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	21.86	21.87	22.05
		RB1#3	21.96	21.93	21.86
		RB1#5	21.93	21.97	21.99
		RB3#0	21.91	21.82	21.96
		RB3#3	21.8	21.84	22.03
		RB6#0	21.85	21.85	21.93
	16-QAM	RB1#0	21.91	21.93	21.9
		RB1#3	21.89	21.83	21.95
		RB1#5	21.84	21.87	21.85
		RB3#0	21.9	21.93	22
		RB3#3	21.93	21.95	21.97
		RB6#0	21.91	21.91	21.93
3M	QPSK	RB1#0	21.77	22.44	21.92
		RB1#8	21.72	21.76	21.9
		RB1#14	21.7	22.37	21.8
		RB6#0	21.81	21.78	21.92
		RB6#9	21.69	21.76	21.85
		RB15#0	21.87	21.83	21.77
	16-QAM	RB1#0	21.74	21.9	21.82
		RB1#8	21.76	21.83	21.82
		RB1#14	21.73	21.85	21.86
		RB6#0	22.3	21.85	21.85
		RB6#9	22.31	21.82	21.8
		RB15#0	21.68	21.73	21.93
5M	QPSK	RB1#0	22.31	22.42	22.49
		RB1#13	22.39	22.52	22.57
		RB1#24	22.39	22.49	22.42
		RB15#0	22.33	22.48	22.38
		RB15#10	22.35	22.51	22.49
		RB25#0	22.29	22.53	22.37
	16-QAM	RB1#0	22.33	22.35	22.39
		RB1#13	22.45	22.39	22.39
		RB1#24	22.42	22.32	22.43
		RB15#0	22.47	22.48	22.55
		RB15#10	22.32	22.48	22.42
		RB25#0	22.28	22.46	22.42

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	22.5	22.48	22.48
		RB1#25	22.54	22.43	22.54
		RB1#49	22.5	22.51	22.46
		RB25#0	22.57	22.39	22.52
		RB25#25	22.55	22.44	22.4
		RB50#0	22.49	22.54	22.46
	16-QAM	RB1#0	22.52	22.58	22.55
		RB1#25	22.47	22.54	22.43
		RB1#49	22.45	22.43	22.57
		RB25#0	22.48	22.38	22.47
		RB25#25	22.62	22.58	22.55
		RB50#0	22.58	22.41	22.53
15M	QPSK	RB1#0	22.68	22.64	22.59
		RB1#37	22.64	22.55	22.58
		RB1#74	22.67	22.61	22.46
		RB36#0	22.61	22.57	22.44
		RB36#39	22.69	22.65	22.54
		RB75#0	22.55	22.4	22.57
	16-QAM	RB1#0	22.61	22.46	22.52
		RB1#37	22.57	22.47	22.54
		RB1#74	22.59	22.42	22.5
		RB36#0	22.57	22.55	22.42
		RB36#39	22.51	22.42	22.55
		RB75#0	22.57	22.57	22.6

LTE Band 38:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	22.02	21.77	21.9
		RB1#13	22.21	21.92	22.2
		RB1#24	22.13	21.7	21.86
		RB15#0	20.93	20.84	20.91
		RB15#10	20.85	20.93	20.86
		RB25#0	20.85	20.95	20.94
	16-QAM	RB1#0	20.87	20.89	20.63
		RB1#13	21.01	21.06	20.88
		RB1#24	20.96	21.06	20.62
		RB15#0	19.89	19.76	19.82
		RB15#10	19.98	19.85	19.87
		RB25#0	19.95	19.96	20.04
10M	QPSK	RB1#0	21.71	21.86	21.88
		RB1#25	21.72	21.85	22
		RB1#49	21.81	21.81	22.02
		RB25#0	20.9	20.87	21
		RB25#25	20.98	20.93	21.01
		RB50#0	20.84	20.85	20.95
	16-QAM	RB1#0	20.41	20.89	20.82
		RB1#25	20.39	21.04	20.91
		RB1#49	20.28	21.05	20.85
		RB25#0	19.77	19.89	19.95
		RB25#25	19.75	19.82	20.1
		RB50#0	19.88	19.89	19.89
15M	QPSK	RB1#0	22.12	21.73	21.91
		RB1#38	22.22	21.82	22.06
		RB1#74	22.05	21.81	21.88
		RB36#0	20.79	20.86	20.84
		RB36#39	20.89	21.02	20.94
		RB75#0	20.9	20.93	20.87
	16-QAM	RB1#0	20.74	20.23	20.98
		RB1#38	20.79	20.35	21.14
		RB1#74	20.78	20.37	21.05
		RB36#0	19.93	19.88	19.82
		RB36#39	19.91	19.9	19.84
		RB75#0	19.87	19.97	19.78

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
20M	QPSK	RB1#0	21.95	21.86	21.66
		RB1#50	22.03	22.18	21.95
		RB1#99	22.01	21.9	21.84
		RB50#0	21.81	21.81	21.74
		RB50#50	21.99	21.74	21.56
		RB100#0	21.23	21.62	21.32
	16-QAM	RB1#0	20.58	20.49	21.02
		RB1#50	20.76	20.76	21.21
		RB1#99	20.6	20.62	21.04
		RB50#0	19.84	19.91	19.93
		RB50#50	19.99	20	19.99
		RB100#0	19.88	19.81	19.9

LTE Band 41:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2549.5 MHz (dBm)	Middle Channel (dBm)	2636.5 MHz (dBm)	High Channel (dBm)
5M	QPSK	RB1#0	21.95	21.84	22.12	21.8	22.11
		RB1#13	22.22	22.08	22.23	21.98	22.15
		RB1#24	22.04	21.93	22.01	21.79	22.01
		RB15#0	20.96	20.88	20.81	20.93	20.85
		RB15#10	20.86	20.82	20.89	20.95	20.95
		RB25#0	20.95	20.99	20.92	21	20.98
	16-QAM	RB1#0	20.62	20.67	20.82	21.03	20.97
		RB1#13	20.77	20.73	21	21.12	21
		RB1#24	20.55	20.58	20.89	21.13	20.83
		RB15#0	19.78	19.74	20.02	19.85	19.92
		RB15#10	19.75	19.7	19.87	19.75	20.02
		RB25#0	20.14	20.02	19.85	19.97	19.97
10M	QPSK	RB1#0	21.91	21.82	21.7	21.8	21.7
		RB1#25	22.01	21.93	21.96	21.91	21.91
		RB1#49	21.91	21.89	21.8	21.89	21.84
		RB25#0	21.08	20.96	20.88	21.01	20.89
		RB25#25	21.05	20.96	20.88	20.92	21
		RB50#0	20.93	20.87	20.93	20.95	20.94
	16-QAM	RB1#0	20.87	20.88	20.39	20.9	20.31
		RB1#25	21.02	20.87	20.4	21.11	20.51
		RB1#49	20.89	20.9	20.41	20.99	20.49
		RB25#0	19.97	19.91	19.78	19.93	19.92
		RB25#25	20.03	19.96	19.91	19.89	19.87
		RB50#0	20.11	19.96	19.92	19.84	19.83
15M	QPSK	RB1#0	22.03	22.04	21.75	21.79	21.72
		RB1#38	22.14	22.12	21.77	21.98	21.76
		RB1#74	22.18	22.24	21.79	21.72	21.67
		RB36#0	20.98	20.93	20.81	20.84	20.95
		RB36#39	21.14	20.99	20.91	20.91	20.87
		RB75#0	20.99	20.99	20.82	20.86	20.92
	16-QAM	RB1#0	20.66	20.64	20.25	20.92	20.33
		RB1#38	20.71	20.76	20.45	21.08	20.47
		RB1#74	20.92	20.82	20.39	20.89	20.27
		RB36#0	20.13	20.03	19.85	19.83	19.95
		RB36#39	19.98	19.85	19.85	19.66	19.79
		RB75#0	19.89	19.87	19.87	19.75	19.91

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	2549.5 MHz (dBm)	Middle Channel (dBm)	2636.5 MHz (dBm)	High Channel (dBm)
20M	QPSK	RB1#0	20.92	20.78	20.88	20.7	20.95
		RB1#50	22.08	22.12	22.18	21.98	22.13
		RB1#99	21.99	21.96	21.91	21.67	21.97
		RB50#0	21.98	21.86	21.96	21.96	21.95
		RB50#50	21.75	21.58	21.93	21.86	21.85
		RB100#0	21.43	21.53	21.95	21.47	21.37
	16-QAM	RB1#0	19.61	19.59	19.5	19.83	19.46
		RB1#50	20.75	20.78	20.9	21.02	20.89
		RB1#99	20.67	20.66	20.56	20.87	20.68
		RB50#0	20.05	20	19.96	19.94	19.99
		RB50#50	19.99	19.84	19.97	19.79	19.92
		RB100#0	20.08	19.94	19.88	19.92	19.72

LTE Band 66:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	RB1#0	22.73	22.40	22.51
		RB1#3	22.75	22.47	22.57
		RB1#5	22.81	22.45	22.47
		RB3#0	22.82	22.67	22.69
		RB3#3	22.67	22.69	22.80
		RB6#0	21.83	21.69	21.79
	16-QAM	RB1#0	21.90	21.38	21.50
		RB1#3	22.07	21.41	21.42
		RB1#5	21.95	21.50	21.35
		RB3#0	22.12	21.91	21.76
		RB3#3	22.00	21.77	21.90
		RB6#0	20.69	20.89	21.02
3M	QPSK	RB1#0	22.30	22.35	22.74
		RB1#8	22.55	22.43	22.72
		RB1#14	22.32	22.34	22.56
		RB6#0	21.66	21.75	21.78
		RB6#9	21.57	21.66	21.70
		RB15#0	21.72	21.62	21.70
	16-QAM	RB1#0	21.31	21.44	21.80
		RB1#8	21.28	21.44	21.86
		RB1#14	21.27	21.50	21.81
		RB6#0	20.64	20.77	20.85
		RB6#9	20.81	20.81	20.89
		RB15#0	20.73	20.74	20.72
5M	QPSK	RB1#0	22.56	22.64	22.67
		RB1#13	22.75	22.79	22.75
		RB1#24	22.61	22.69	22.61
		RB15#0	21.78	21.76	21.93
		RB15#10	21.86	21.66	21.79
		RB25#0	21.75	21.78	21.80
	16-QAM	RB1#0	21.66	21.69	22.26
		RB1#13	21.88	21.88	22.46
		RB1#24	21.86	21.76	22.27
		RB15#0	20.86	20.75	20.83
		RB15#10	20.93	20.92	20.96
		RB25#0	20.77	20.79	20.91

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	RB1#0	22.79	22.94	22.55
		RB1#25	22.82	23.04	22.67
		RB1#49	22.82	22.96	22.73
		RB25#0	21.74	21.77	21.80
		RB25#25	21.75	21.74	21.72
		RB50#0	21.79	21.86	21.78
	16-QAM	RB1#0	21.79	22.19	21.50
		RB1#25	21.77	22.08	21.61
		RB1#49	21.77	22.13	21.61
		RB25#0	20.86	20.82	20.94
		RB25#25	20.90	20.90	21.02
		RB50#0	20.70	20.81	20.79
15M	QPSK	RB1#0	22.73	22.74	22.89
		RB1#38	22.86	22.78	23.11
		RB1#74	22.88	22.61	22.84
		RB36#0	21.84	21.88	21.83
		RB36#39	21.79	21.87	21.86
		RB75#0	21.90	21.89	21.77
	16-QAM	RB1#0	21.85	21.71	22.20
		RB1#38	21.96	21.87	22.15
		RB1#74	21.96	21.65	22.10
		RB36#0	20.80	20.69	20.86
		RB36#39	20.71	20.88	20.96
		RB75#0	20.84	20.81	20.71
20M	QPSK	RB1#0	22.50	22.57	22.40
		RB1#50	22.67	22.82	22.80
		RB1#99	22.50	22.74	22.56
		RB50#0	21.87	21.83	21.80
		RB50#50	22.13	22.18	22.11
		RB100#0	21.77	21.74	21.78
	16-QAM	RB1#0	21.84	22.30	21.85
		RB1#50	22.23	22.54	22.20
		RB1#99	21.87	22.34	21.93
		RB50#0	20.61	20.78	20.79
		RB50#50	20.83	20.90	20.94
		RB100#0	20.87	20.86	20.73

WLAN 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)	
				Chain 0	Chain 1
802.11b	2412	1Mbps	99.55	15.06	15.14
	2437			14.43	15.43
	2462			14.52	15.35
802.11g	2412	6Mbps	97.40	10.98	11.28
	2437			10.29	11.49
	2462			10.18	11.43
802.11n ht20	2412	MCS0	97.28	10.88	11.19
	2437			10.19	11.46
	2462			10.22	11.41

Note: WLAN 2.4G Duty Cycle please refer to RF Report Number: 2501V09799E-RF-00C ▲

Wi-Fi 5.2G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11a	5180	6Mbps	97.05	7.28
	5200			7.16
	5240			6.51
802.11n20	5180	MCS0	/	7.02
	5200			6.99
	5240			6.42
802.11n40	5190	MCS0	/	7.22
	5230			7.13

Wi-Fi 5.3G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11a	5260	6Mbps	97.05	6.64
	5280			6.47
	5320			6.03
802.11n20	5260	MCS0	/	6.44
	5280			6.31
	5320			5.89
802.11n40	5270	MCS0	/	6.49
	5310			6.12

Wi-Fi 5.6G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11a	5500	6Mbps	97.05	7.06
	5580			6.62
	5700			7.11
	5720			6.68
802.11n20	5500	MCS0	/	6.89
	5580			6.45
	5700			6.98
	5720			6.51
802.11n40	5510	MCS0	/	6.94
	5550			6.83
	5670			7.42
	5710			7.53

Wi-Fi 5.8G:

Mode	Channel frequency (MHz)	Data Rate	Duty cycle (%)	RF Output Power (dBm)
802.11a	5745	6Mbps	97.05	9.86
	5785			10.48
	5825			11.06
802.11n20	5745	MCS0	/	9.57
	5785			8.76
	5825			10.92
802.11n40	5755	MCS0	/	10.08
	5795			10.55

Note: 1. WLAN 5G Duty Cycle please refer to RF Report Number: 2501V09799E-RF-00D ▲

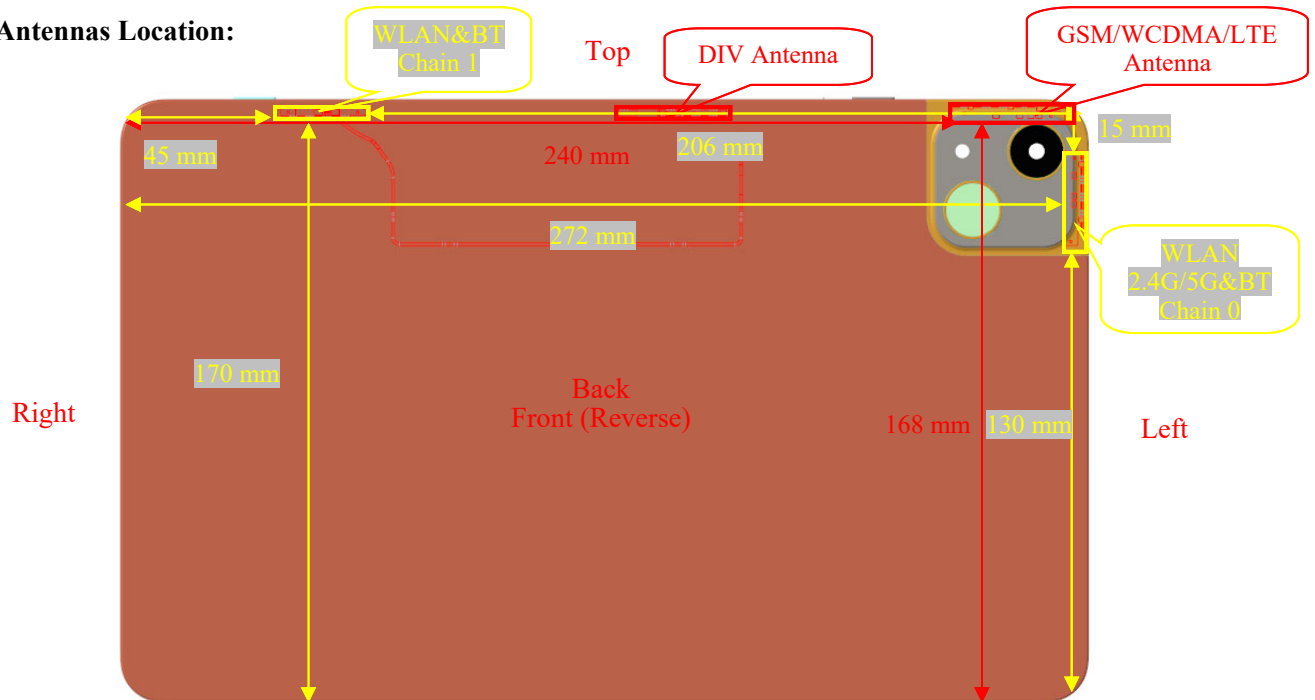
2. The system support 802.11a/n ht20/n ht40/ac vht20/vht40/vht80, the vht20/vht40 were reduced since the identical parameters with 802.11n ht20 and ht40.

Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)	
		Chain 0	Chain 1
BDR(GFSK)	2402	3.54	2.98
	2441	4.08	4.26
	2480	2.82	3.51
EDR($\pi/4$ -DQPSK)	2402	2.59	2.13
	2441	3.16	3.42
	2480	1.87	2.58
EDR(8DPSK)	2402	2.34	1.92
	2441	2.93	3.26
	2480	1.75	2.45
BLE_1M	2402	-3.59	-3.94
	2440	-4.05	-2.65
	2480	-5.48	-3.54
BLE_2M	2404	-4.41	-3.91
	2440	-4.12	-2.68
	2478	-5.28	-3.51

7. Standalone SAR test exclusion considerations

Antennas Location:



Note: DIV antenna is only used for receiving. Bottom

7.1 Antenna Distance To Edge

Antenna Distance To Edge(mm)						
Antenna	Front	Back	Left	Right	Top	Bottom
WWAN(GSM/WCDMA/LTE) Antenna	< 5	< 5	< 5	240	< 5	168
WLAN 2.4G/5G & BT Chain 0	< 5	< 5	< 5	272	15	130
WLAN 2.4G & BT Chain 1	< 5	< 5	206	45	< 5	170

7.2 Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
WLAN 2.4G	2462	15.5	35.48	0	11.1	3	NO
WLAN 5.2G	5240	7.4	5.5	0	2.5	3	YES
WLAN 5.3G	5320	6.8	4.79	0	2.2	3	YES
WLAN 5.6G	5720	7.6	5.75	0	2.8	3	YES
WLAN 5.8G	5825	11.2	13.18	0	6.4	3	NO
Bluetooth	2480	4.5	2.82	0	0.9	3	YES

Note: The bluetooth based peak power for calculation, and Wi-Fi based average 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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

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 $< 5 \text{ mm}$, a distance of 5 mm is applied to determine SAR test Exclusion.

7.3 Standalone SAR estimation:

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Estimated 1-g (W/kg)
WLAN 5.2G Body	5240	7.4	5.5	0	0.34
WLAN 5.3G Body	5320	6.8	4.79	0	0.29
WLAN 5.6G Body	5720	7.6	5.75	0	0.37
BT Body	2480	4.5	2.82	0	0.12

Note: The bluetooth based peak power for calculation, and Wi-Fi based average 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:

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

W/kg for test separation distances $\leq 50 \text{ mm}$;

where $x = 7.5$ for 1-g SAR.

When the minimum test separation distance is $< 5 \text{ mm}$, a distance of 5 mm is applied to determine SAR test Exclusion.

7.4 Standalone SAR test exclusion considerations:

Mode	Frequency (MHz)	Target Power (dBm)	Target Power (mW)	Test exclusion Threshold (mm)
GSM 850	848.8	26.6	457.09	29
PCS 1900	1909.8	23.7	234.42	24
WCDMA Band 2	1907.6	21.5	141.25	19.8
WCDMA Band 4	1752.6	21.9	154.88	20.9
WCDMA Band 5	846.6	22.7	186.21	17.1
LTE Band 2	1900	22.5	177.83	21.8
LTE Band 4	1745	22.5	177.83	22.1
LTE Band 5	844	22.5	177.83	16.2
LTE Band 7	2560	22	158.49	19.5
LTE Band 12	711	23	199.53	16
LTE Band 13	782	22.8	190.55	19.4
LTE Band 17	711	23	199.53	17.6
LTE Band 26	841.5	22.8	190.55	16.0
LTE Band 38	2610	22.3	169.82	20.1
LTE Band 41	2680	22.3	169.82	18.9
LTE Band 66	1770	23.2	208.93	23
WLAN 2.4G	2472	15.5	35.48	6.5
WLAN 5.8G	5825	11.2	13.18	< 5

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

7.5 SAR test exclusion for the EUT edge considerations Result

According to KDB 616217 Section 4.3, SAR evaluation for the front surface of tablet display screens are generally not necessary.

Mode	Back Edge	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Required	Required	Exclusion	Required	Exclusion
PCS1900	Required	Required	Exclusion	Required	Exclusion
WCDMA Band 2	Required	Required	Exclusion	Required	Exclusion
WCDMA Band 4	Required	Required	Exclusion	Required	Exclusion
WCDMA Band 5	Required	Required	Exclusion	Required	Exclusion
LTE Band 2	Required	Required	Exclusion	Required	Exclusion
LTE Band 5	Required	Required	Exclusion	Required	Exclusion
LTE Band 7	Required	Required	Exclusion	Required	Exclusion
LTE Band 12&17	Required	Required	Exclusion	Required	Exclusion
LTE Band 13	Required	Required	Exclusion	Required	Exclusion
LTE Band 26	Required	Required	Exclusion	Required	Exclusion
LTE Band 38	Required	Required	Exclusion	Required	Exclusion
LTE Band 41	Required	Required	Exclusion	Required	Exclusion
LTE Band 66&4	Required	Required	Exclusion	Required	Exclusion
WLAN 2.4G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion
WLAN 2.4G Chain 1	Required	Exclusion	Exclusion	Required	Exclusion
WLAN 5.2G	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*
WLAN 5.3G	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*
WLAN 5.6G	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*
WLAN 5.8G	Required	Required	Exclusion	Exclusion	Exclusion
Bluetooth	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*

Note:

Required: The distance is less than **Test Exclusion Distance**, the SAR test is required.

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

Exclusion*: SAR test exclusion evaluation has been done above.

SAR test exclusion for the EUT edge considerations detail:**Distance < 50mm (To Edges)**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 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.
5. The Time based average Power is used for calculation

Distance > 50mm (To Edges)

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

- a) $[\text{Power allowed at numeric threshold for 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]$ mW, at 100 MHz to 1500 MHz
- b) $[\text{Power allowed at numeric threshold for 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10]$ mW at > 1500 MHz and ≤ 6 GHz

8. SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

8.1 SAR Test Data

Environmental Conditions

Temperature:	22.7~23.4℃	22.9-23.7℃	22.1-22.9℃	23.1-23.9℃
Relative Humidity:	42 %	47 %	51 %	48 %
ATM Pressure:	100.1 kPa	99.6 kPa	99.8 kPa	99.9 kPa
Test Date:	2025/08/03	2025/08/04	2025/08/05	2025/08/06

Testing was performed by Wen Chen, Leo Lu, Aixlee Li, Ken Zong.

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
Body Back (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	29.4	29.6	1.047	0.43	0.45	/
	848.8	GPRS	/	/	/	/	/	/
Body Left (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	29.4	29.6	1.047	0.244	0.26	/
	848.8	GPRS	/	/	/	/	/	/
Body Top (0mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	29.4	29.6	1.047	0.654	0.68	1#
	848.8	GPRS	/	/	/	/	/	/

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, 1DL+4UL is the worst case.
6. The max. time based average power of GSM/GPRS/EDGE mode was selected to Body SAR testing.

PCS 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
Body Back (0mm)	1850.2	GPRS	29.6	29.7	1.023	1.13	1.16	2#
	1880	GPRS	28.98	29.7	1.18	0.922	1.09	/
	1909.8	GPRS	28.85	29.7	1.216	0.823	1	/
Body Left (0mm)	1850.2	GPRS	29.6	29.7	1.023	0.07	0.07	/
	1880	GPRS	/	/	/	/	/	/
	1909.8	GPRS	/	/	/	/	/	/
Body Top (0mm)	1850.2	GPRS	29.6	29.7	1.023	0.259	0.26	/
	1880	GPRS	/	/	/	/	/	/
	1909.8	GPRS	/	/	/	/	/	/

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, 3DL+2UL is the worst case.
6. The max. time based average power of GSM/GPRS/EDGE mode was selected to Body SAR testing.

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
Body Back (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	21.42	21.5	1.019	0.242	0.25	/
	1907.6	RMC	/	/	/	/	/	/
Body Left (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	21.42	21.5	1.019	0.025	0.03	/
	1907.6	RMC	/	/	/	/	/	/
Body Top (0mm)	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	21.42	21.5	1.019	0.38	0.39	3#
	1907.6	RMC	/	/	/	/	/	/

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
Body Back (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	21.78	21.9	1.028	0.276	0.28	/
	1752.6	RMC	/	/	/	/	/	/
Body Left (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	21.78	21.9	1.028	0.056	0.06	/
	1752.6	RMC	/	/	/	/	/	/
Body Top (0mm)	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	21.78	21.9	1.028	0.407	0.42	4#
	1752.6	RMC	/	/	/	/	/	/

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
Body Back (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.51	22.7	1.045	0.577	0.60	5#
	846.6	RMC	/	/	/	/	/	/
Body Left (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.51	22.7	1.045	0.462	0.48	/
	846.6	RMC	/	/	/	/	/	/
Body Top (0mm)	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.51	22.7	1.045	0.531	0.55	/
	846.6	RMC	/	/	/	/	/	/

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
Body Back (0mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	22.14	22.5	1.086	0.319	0.35	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	21.13	22.5	1.371	0.356	0.49	/
Body Left (0mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	22.14	22.5	1.086	0.033	0.04	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	21.13	22.5	1.371	0.026	0.04	/
Body Top (0mm)	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	22.14	22.5	1.086	0.412	0.45	/
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	21.13	22.5	1.371	0.46	0.63	6#

LTE Band 26&5:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	22.64	22.8	1.038	0.091	0.09	/
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.65	22.8	1.035	0.104	0.11	/
Body Left (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	22.64	22.8	1.038	0.054	0.06	/
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.65	22.8	1.035	0.061	0.06	/
Body Top (0mm)	821.5	15	1RB	/	/	/	/	/	/
	831.5	15	1RB	22.64	22.8	1.038	0.130	0.13	/
	841.5	15	1RB	/	/	/	/	/	/
	831.5	15	50%RB	22.65	22.8	1.035	0.138	0.14	7#

Note: The LTE Band 5 is a subset of LTE Band 26, with the same modulation type, and the rated output power of LTE band 5 is not greater than LTE band 26, so LTE band 5 does not need to be tested.

LTE Band 7:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	21.89	22	1.026	0.768	0.79	8#
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.46	22	1.132	0.699	0.79	/
Body Left (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	21.89	22	1.026	0.611	0.63	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.46	22	1.132	0.514	0.58	/
Body Top (0mm)	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	21.89	22	1.026	0.689	0.71	/
	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	21.46	22	1.132	0.614	0.70	/

LTE Band 12&17:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	22.77	23	1.054	0.282	0.30	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	22.35	23	1.161	0.294	0.34	/
Body Left (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	22.77	23	1.054	0.09	0.09	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	22.35	23	1.161	0.105	0.12	/
Body Top (0mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	22.77	23	1.054	0.378	0.40	/
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	22.35	23	1.161	0.373	0.43	9#

Note: The LTE Band 17 is a subset of LTE Band 12, with the same modulation type, and the rated output power of LTE band 17 is not greater than LTE band 12, so LTE band 17 does not need to be tested.

LTE Band 13:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	782	10	1RB	22.66	22.8	1.033	0.337	0.35	/
	782	10	50%RB	22.07	22.8	1.183	0.435	0.51	/
Body Left (0mm)	782	10	1RB	22.66	22.8	1.033	0.141	0.15	/
	782	10	50%RB	22.07	22.8	1.183	0.197	0.23	/
Body Top (0mm)	782	10	1RB	22.66	22.8	1.033	0.584	0.6	/
	782	10	50%RB	22.07	22.8	1.183	0.665	0.79	10#

LTE Band 38:

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 Back (0mm)	2580	20	1RB	22.03	22.3	1.064	0.994	1.06	/
	2595	20	1RB	22.18	22.3	1.028	0.9	0.93	/
	2610	20	1RB	21.95	22.3	1.084	0.865	0.94	/
	2580	20	50%RB	21.81	22.3	1.119	1.04	1.16	11#
	2595	20	50%RB	21.81	22.3	1.119	0.967	1.08	/
	2610	20	50%RB	21.74	22.3	1.138	0.94	1.07	/
	2595	20	100%RB	21.62	22.3	1.169	0.996	1.16	/
Body Left (0mm)	2580	20	1RB	/	/	/	/	/	/
	2595	20	1RB	22.18	22.3	1.028	0.546	0.56	/
	2610	20	1RB	/	/	/	/	/	/
	2595	20	50%RB	21.81	22.3	1.119	0.597	0.67	/
Body Top (0mm)	2580	20	1RB	/	/	/	/	/	/
	2595	20	1RB	22.18	22.3	1.028	0.626	0.64	/
	2610	20	1RB	/	/	/	/	/	/
	2595	20	50%RB	21.81	22.3	1.119	0.674	0.75	/

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
Body Back (0mm)	2506	20	1RB	22.08	22.3	1.052	1.11	1.17	/
	2549.5	20	1RB	22.12	22.3	1.042	1.07	1.11	/
	2593	20	1RB	22.18	22.3	1.028	0.97	1	/
	2636.5	20	1RB	21.98	22.3	1.076	1.09	1.17	/
	2680	20	1RB	22.13	22.3	1.04	1.14	1.19	12#
	2506	20	50%RB	21.98	22.3	1.076	1.05	1.13	/
	2549.5	20	50%RB	21.86	22.3	1.107	1.01	1.12	/
	2593	20	50%RB	21.96	22.3	1.081	1.09	1.18	/
	2636.5	20	50%RB	21.96	22.3	1.081	0.93	1.01	/
	2680	20	50%RB	21.95	22.3	1.084	1.01	1.09	/
	2593	20	100%RB	21.95	22.3	1.084	1.09	1.18	/
Body Left (0mm)	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	22.18	22.3	1.028	0.633	0.65	/
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	21.96	22.3	1.081	0.577	0.62	/
Body Top (0mm)	2506	20	1RB	/	/	/	/	/	/
	2549.5	20	1RB	/	/	/	/	/	/
	2593	20	1RB	22.18	22.3	1.028	0.657	0.68	/
	2636.5	20	1RB	/	/	/	/	/	/
	2680	20	1RB	/	/	/	/	/	/
	2593	20	50%RB	21.96	22.3	1.081	0.73	0.79	/

LTE Band 66&4:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg)			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Body Back (0mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	22.82	23.2	1.091	0.395	0.43	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	22.18	23.2	1.265	0.484	0.61	/
Body Left (0mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	22.82	23.2	1.091	0.06	0.07	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	22.18	23.2	1.265	0.076	0.10	/
Body Top (0mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	22.82	23.2	1.091	0.457	0.50	/
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	22.18	23.2	1.265	0.517	0.65	13#

Note: The LTE Band 4 is a subset of LTE Band 66, with the same modulation type, and the rated output power of LTE band 4 is not greater than LTE band 66, so LTE band 4 does not need to be tested.

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 SAR for LTE Devices v02r05.
3. KDB 941225 D05-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-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- 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- 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- 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 Chain 0:

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
Body Back (0mm)	2412	802.11b	15.06	15.2	1.033	1.005	0.23	0.24	14#
	2437	802.11b	/	/	/	/	/	/	/
	2462	802.11b	/	/	/	/	/	/	/
Body Left (0mm)	2412	802.11b	15.06	15.2	1.033	1.005	0.108	0.11	/
	2437	802.11b	/	/	/	/	/	/	/
	2462	802.11b	/	/	/	/	/	/	/

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. According to KDB 248227 D01, for SAR testing of WLAN 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 2.4G Chain 1:

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
Body Back (0mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	15.43	15.5	1.016	1.005	0.077	0.08	/
	2462	802.11b	/	/	/	/	/	/	/
Body Top (0mm)	2412	802.11b	/	/	/	/	/	/	/
	2437	802.11b	15.43	15.5	1.016	1.005	0.296	0.30	15#
	2462	802.11b	/	/	/	/	/	/	/

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. According to KDB 248227 D01, for SAR testing of WLAN with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".

WLAN 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
Body Back (0mm)	5745	802.11a	/	/	/	/	/	/	/
	5785	802.11a	/	/	/	/	/	/	/
	5825	802.11a	11.06	11.2	1.033	1.03	0.291	0.31	16#
Body Top (0mm)	5745	802.11a	/	/	/	/	/	/	/
	5785	802.11a	/	/	/	/	/	/	/
	5825	802.11a	11.06	11.2	1.033	1.03	0.021	0.02	/

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. For 802.11a mode power is the largest among 802.11a/n/ac, 802.11 a mode as initial test configuration is selected to test.
4. According to KDB 248227 D01, for SAR testing of WLAN with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".

9. 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 .

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

The Highest Measured SAR Configuration in Each Frequency Band

Body

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
1900MHz	PCS 1900	1850.2	Body Back	1.13	1.11	1.02
2450MHz	LTE Band 41	2506	Body Back	1.11	1.06	1.05
2600MHz	LTE Band 41	2680	Body Back	1.14	1.11	1.03

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.

10. 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 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

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

11. SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	Simultaneous?	Hotspot?
WWAN(GSM/WCDMA/LTE) + Bluetooth	√	×
WWAN(GSM/WCDMA/LTE) + WLAN 2.4G/5G	√	√
WLAN 2.4G Chain 0 + WLAN 2.4G Chain 1	×	×
Bluetooth Chain 0 + Bluetooth Chain 1	×	×
WLAN + Bluetooth	×	×

Note:

KDB 616217 D04 The standalone and simultaneous transmission SAR tests required for tablets are more conservative than the hotspot mode use configurations; therefore, additional testing for hotspot SAR is not required.

Simultaneous SAR test exclusion considerations:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		Σ SAR < 1.6W/kg
		SAR1	SAR2	
WWAN(GSM/WCDMA/LTE) + Bluetooth	Body	1.19	0.12	1.31
WWAN(GSM/WCDMA/LTE) + WLAN 2.4G Hotspot	Body	1.19	0.30	1.49
WWAN(GSM/WCDMA/LTE) + WLAN 5.2G Hotspot	Body	1.19	0.34	1.53
WWAN(GSM/WCDMA/LTE) + WLAN 5.3G Hotspot	Body	1.19	0.29	1.48
WWAN(GSM/WCDMA/LTE) + WLAN 5.6G Hotspot	Body	1.19	0.37	1.56
WWAN(GSM/WCDMA/LTE) + WLAN 5.8G Hotspot	Body	1.19	0.31	1.49

Conclusion:

Sum of SAR: Σ SAR $\leq$ 1.6 W/kg therefore simultaneous transmission SAR with Volume Scans is **not required**.

Plot 2#: PCS 1900 Low _ Body Back**DUT: Tablet; Type: T1201; Serial: 362E-1**

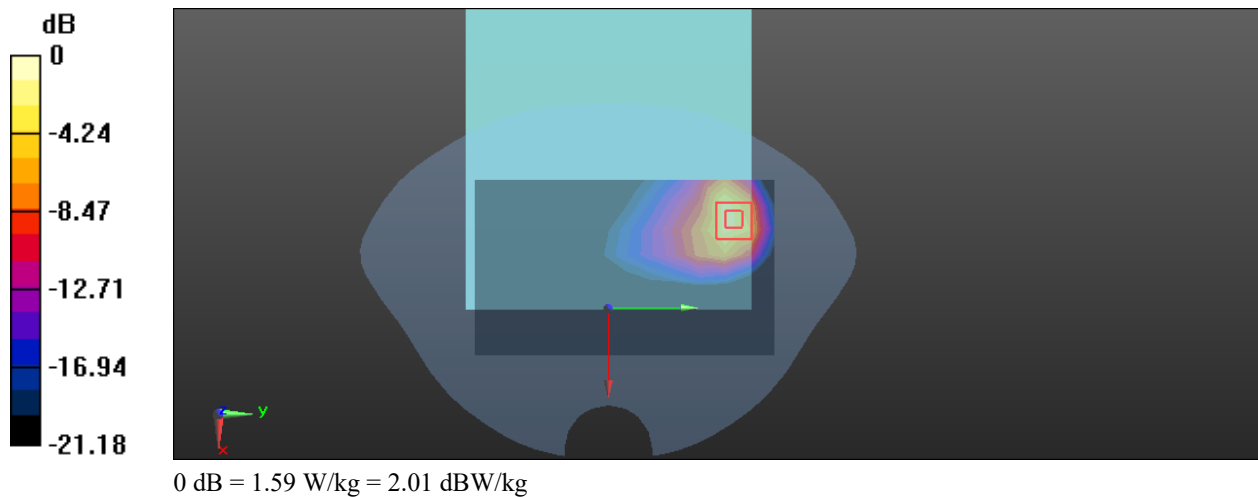
Communication System: UID 0, Generic GPRS-2 slots (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 40.065$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(5.15, 5.15, 5.15) @ 1850.2 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 1.03 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.751 V/m ; Power Drift = 0.05 dB Peak SAR (extrapolated) = 2.35 W/kg **SAR(1 g) = 1.13 W/kg ; SAR(10 g) = 0.525 W/kg** Smallest distance from peaks to all points 3 dB below = 8.4 mm Ratio of SAR at M2 to SAR at M1 = 48.4% Maximum value of SAR (measured) = 1.59 W/kg 

Plot 3#: WCDMA Band 2 Mid_ Body Top**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 39.449$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(5.15, 5.15, 5.15) @ 1880 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.370 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.97 V/m; Power Drift = -0.14 dB

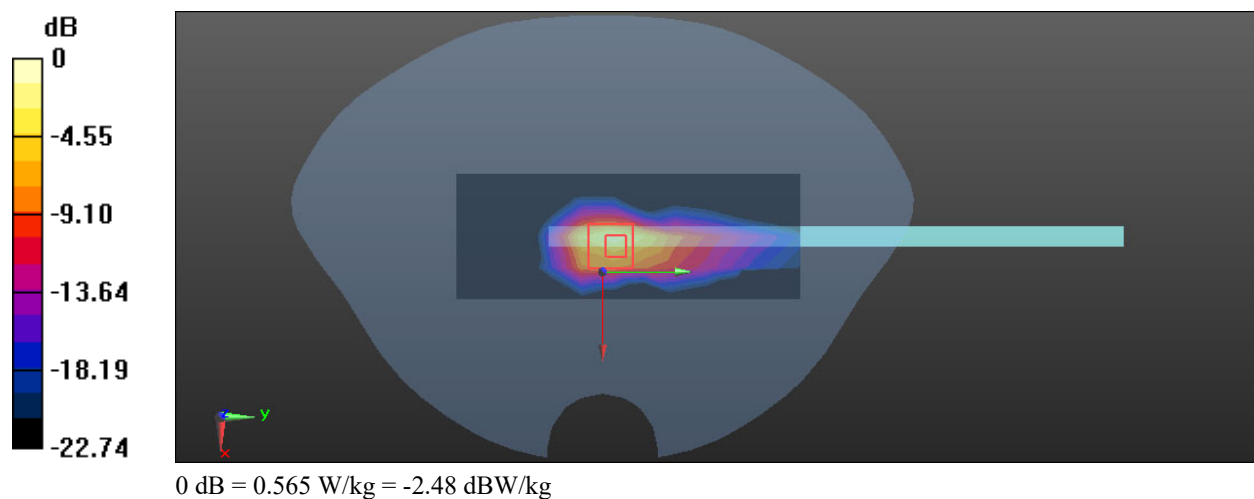
Peak SAR (extrapolated) = 0.875 W/kg

SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.165 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

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

Maximum value of SAR (measured) = 0.565 W/kg



Plot 4#: WCDMA Band 4 Mid_ Body Top**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 40.747$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(5.41, 5.41, 5.41) @ 1732.6 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.384 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.95 V/m; Power Drift = -0.12 dB

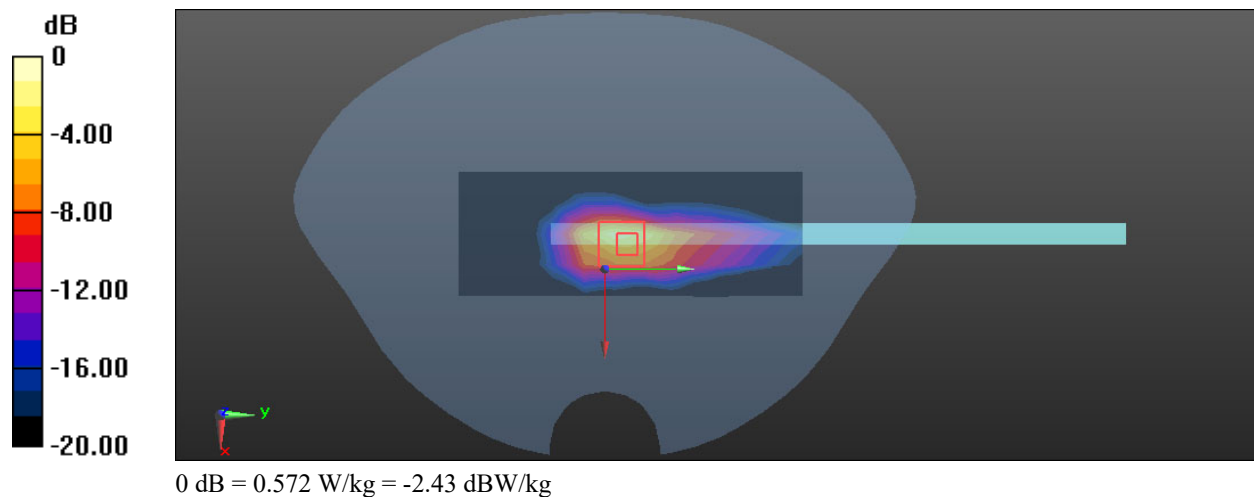
Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.175 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 0.572 W/kg



Plot 5#: WCDMA Band 5 Mid_ Body Back**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic WCDMA (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.876$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(6.45, 6.45, 6.45) @ 836.6 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.756 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.65 V/m; Power Drift = -0.14 dB

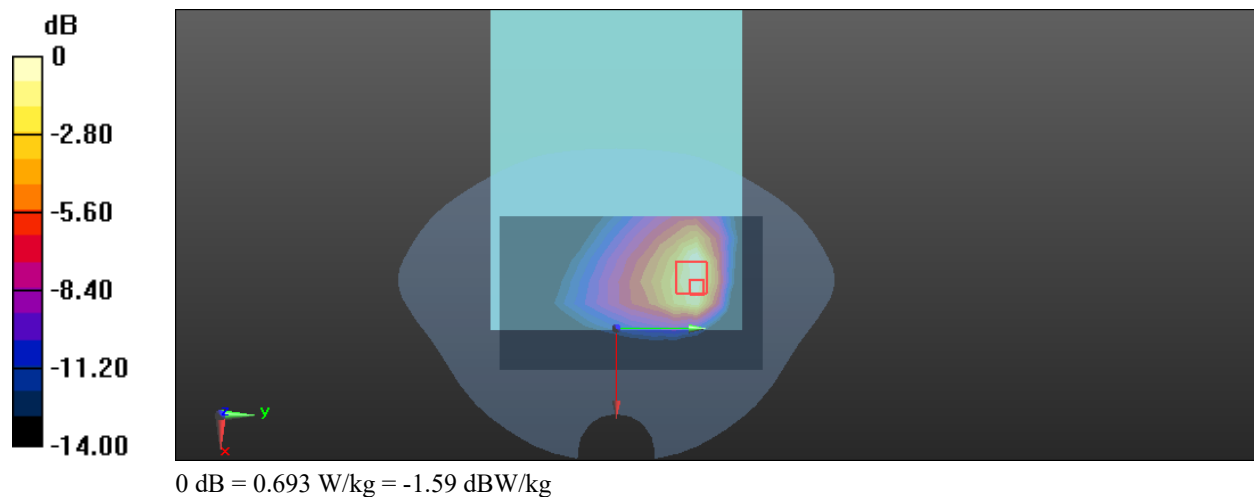
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.339 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 57.6%

Maximum value of SAR (measured) = 0.693 W/kg



Plot 6#: LTE Band 2 50%RB Mid _ Body Top**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic FDD-LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 39.449$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(5.15, 5.15, 5.15) @ 1880 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.570 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.67 V/m; Power Drift = 0.12 dB

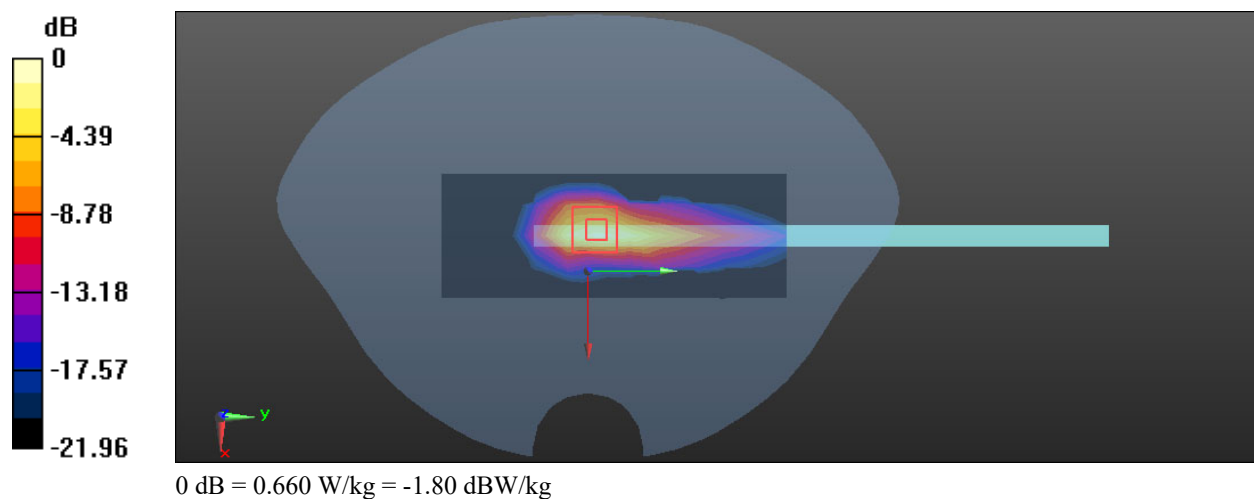
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.203 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.4%

Maximum value of SAR (measured) = 0.660 W/kg



Plot 7#: LTE Band 26 50%RB Mid_ Body Top**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic FDD-LTE (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 42.036$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(6.45, 6.45, 6.45) @ 831.5 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.237 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.00 V/m; Power Drift = 0.08 dB

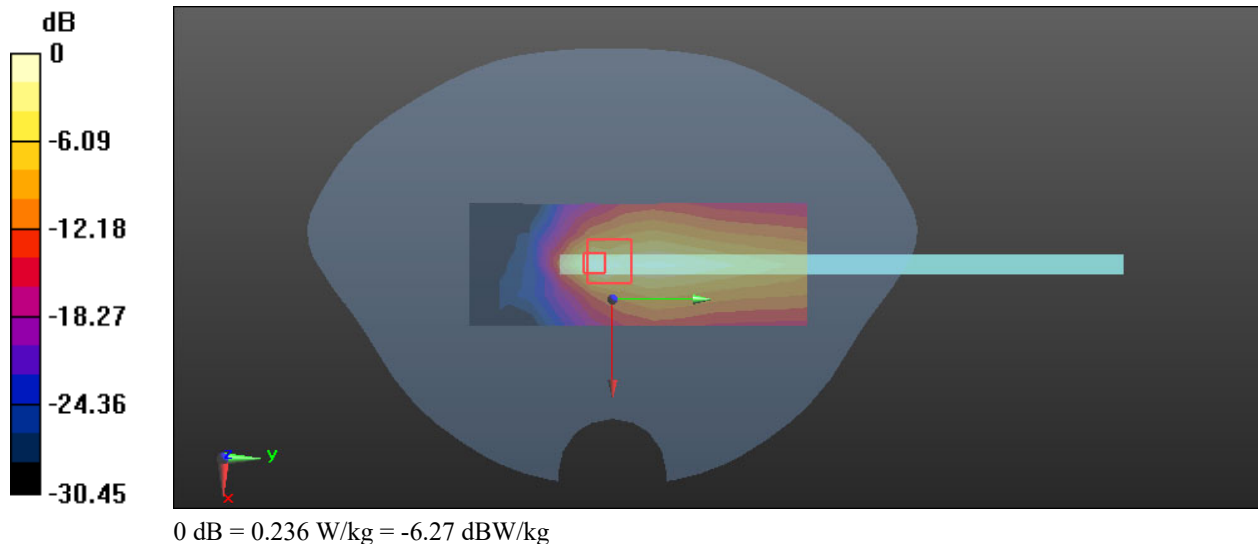
Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.050 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 35.7%

Maximum value of SAR (measured) = 0.236 W/kg



Plot 8#: LTE Band 7 1RB Mid _ Body Back**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic FDD-LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.262$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(4.75, 4.75, 4.75) @ 2535 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.992 W/kg

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

Reference Value = 4.238 V/m; Power Drift = 0.15 dB

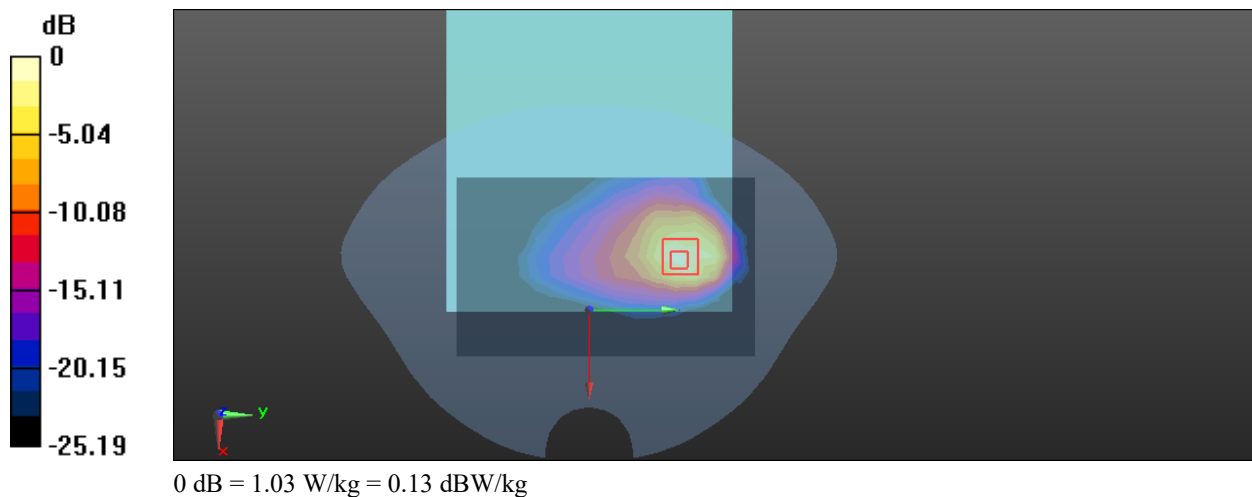
Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.768 W/kg; SAR(10 g) = 0.340 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.8%

Maximum value of SAR (measured) = 1.03 W/kg



Plot 9#: LTE Band 12 50%RB Mid _ Body Top**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic FDD-LTE (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 43.047$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(6.45, 6.45, 6.45) @ 707.5 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.600 W/kg

Zoom Scan (6x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.42 V/m; Power Drift = 0.17 dB

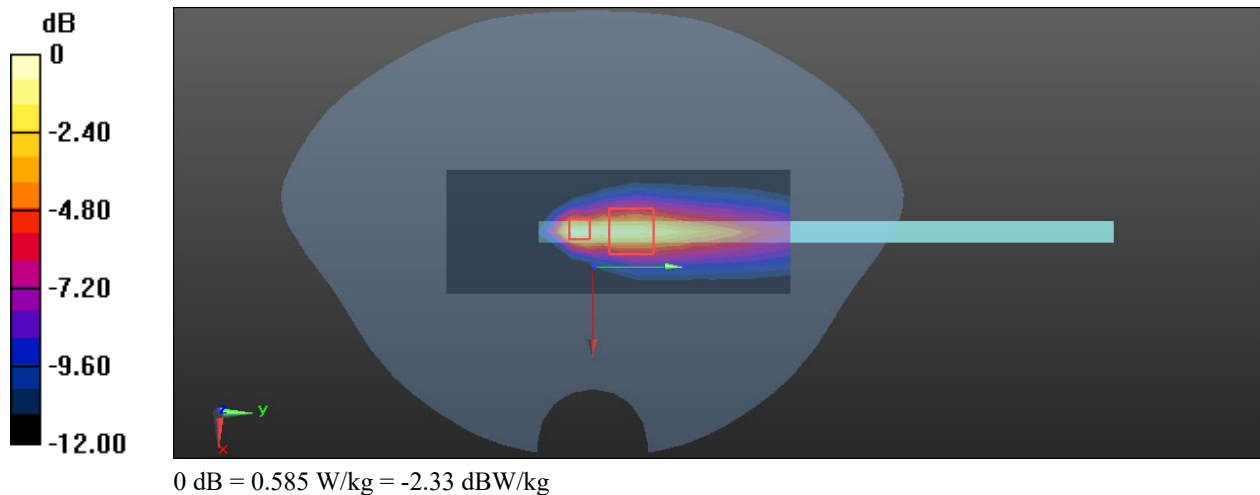
Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.154 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 0.585 W/kg



Plot 12#: LTE Band 41 1RB High_ Body Back**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic TDD-LTE (0); Frequency: 2680 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.074$ S/m; $\epsilon_r = 38.086$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(4.55, 4.55, 4.55) @ 2680 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (10x16x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 1.15 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.271 V/m; Power Drift = 0.20 dB

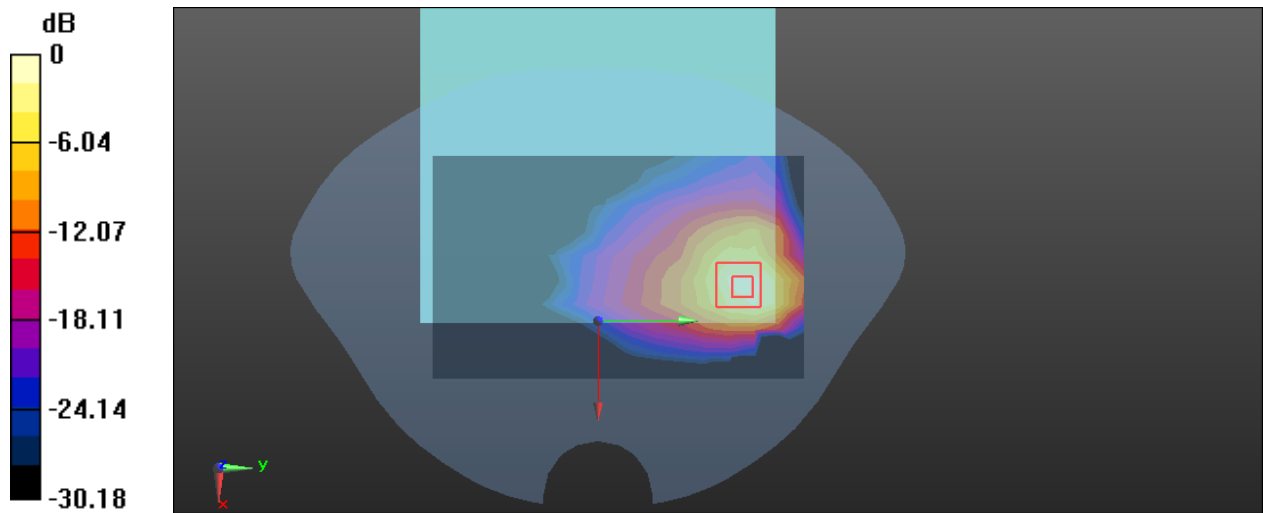
Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.520 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 46.2%

Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

Plot 13#: LTE Band 66 50%RB Mid _ Body Top**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, Generic FDD-LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.353$ S/m; $\epsilon_r = 40.573$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(5.41, 5.41, 5.41) @ 1745 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (5x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.631 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.24 V/m; Power Drift = 0.10 dB

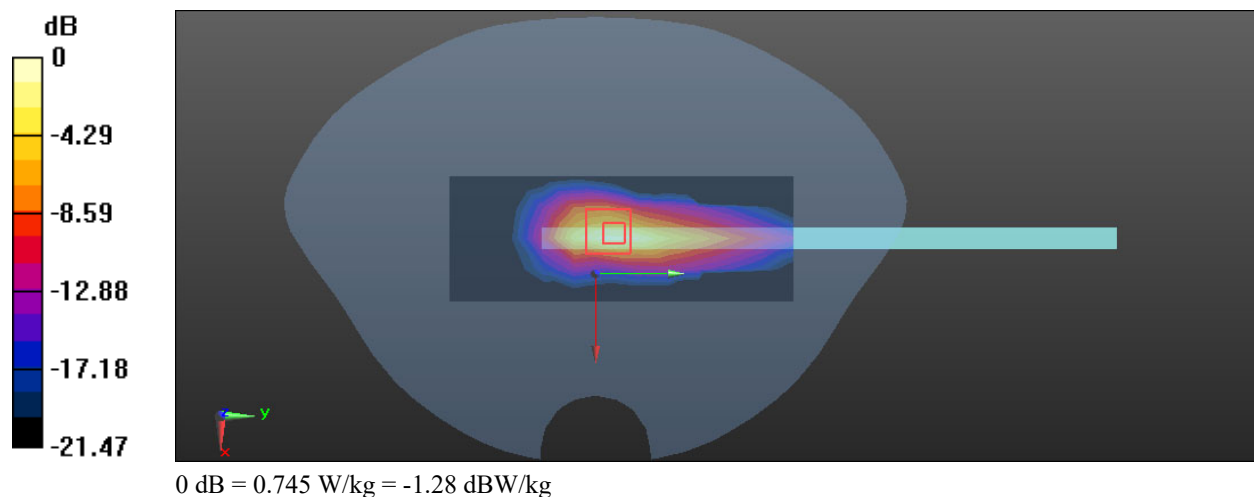
Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.517 W/kg; SAR(10 g) = 0.226 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.7%

Maximum value of SAR (measured) = 0.745 W/kg



Plot 14#: 2.4G Wifi Low Chain 0 Body Back**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, 802.11 b (0); Frequency: 2412 MHz; Duty Cycle: 1:1.005

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.748$ S/m; $\epsilon_r = 39.992$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(4.75, 4.75, 4.75) @ 2412 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (11x11x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.269 W/kg

Zoom Scan (8x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.240 V/m; Power Drift = 0.14 dB

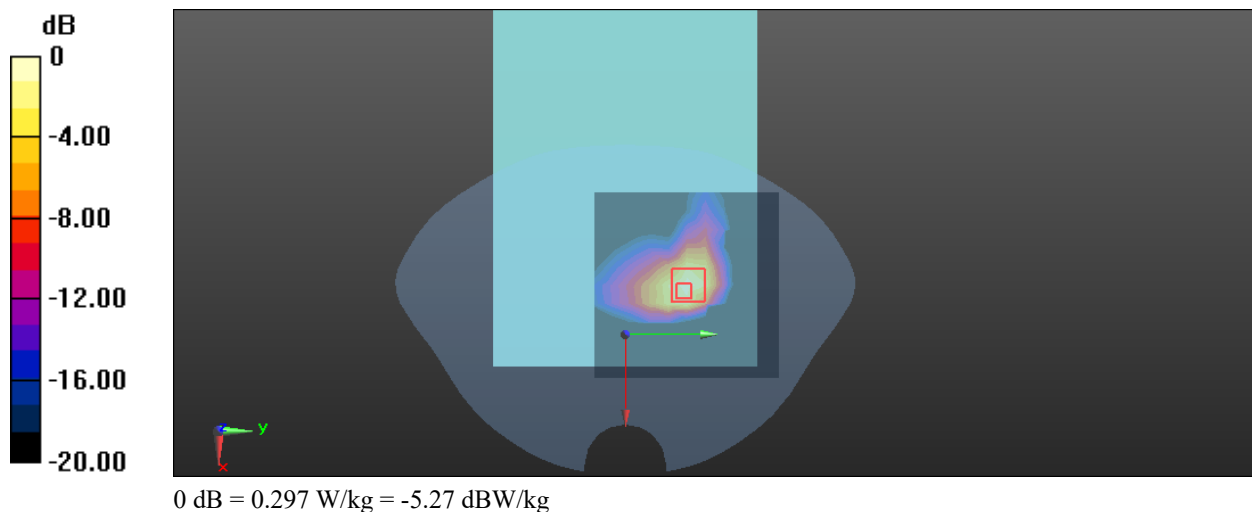
Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.112 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 36.8%

Maximum value of SAR (measured) = 0.297 W/kg



Plot 15#: 2.4G Wifi Mid Chain 1 Body Top**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, 802.11 b (0); Frequency: 2437 MHz; Duty Cycle: 1:1.005

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.805$ S/m; $\epsilon_r = 39.761$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3157; ConvF(4.75, 4.75, 4.75) @ 2437 MHz; Calibrated: 2024/11/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.367 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.416 V/m; Power Drift = 0.12 dB

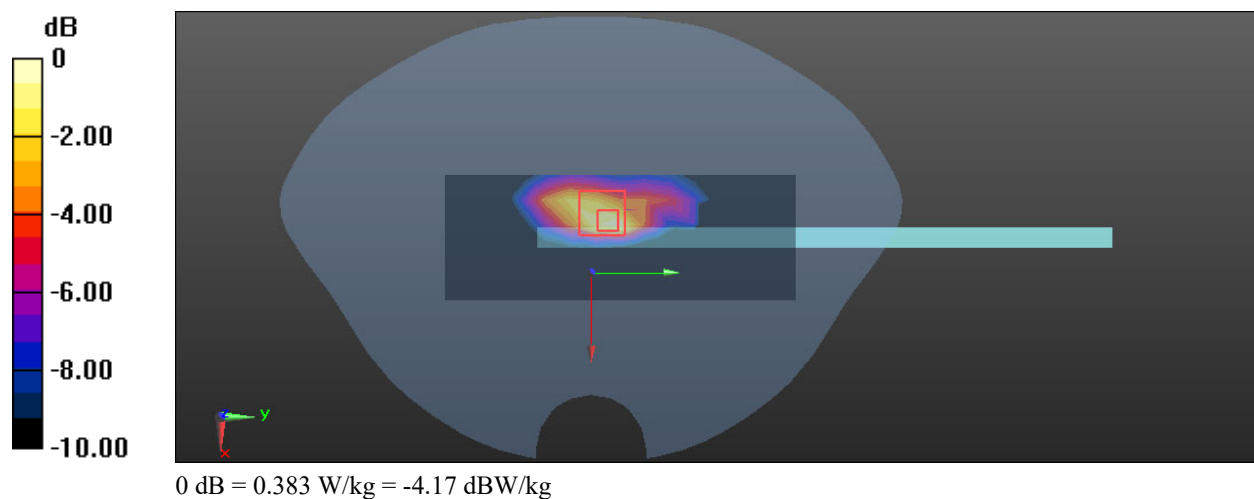
Peak SAR (extrapolated) = 0.630 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.148 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 0.383 W/kg



Plot 16#: Wi-Fi 5.8G High Body Back**DUT: Tablet; Type: T1201; Serial: 362E-1**

Communication System: UID 0, 5.8G Wi-Fi (0); Frequency: 5825 MHz; Duty Cycle: 1:1.03

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 34.743$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3701; ConvF(4.87, 4.87, 4.87) @ 5825 MHz; Calibrated: 2024/10/17
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2024/12/3
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (11x12x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.580 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.16 dB

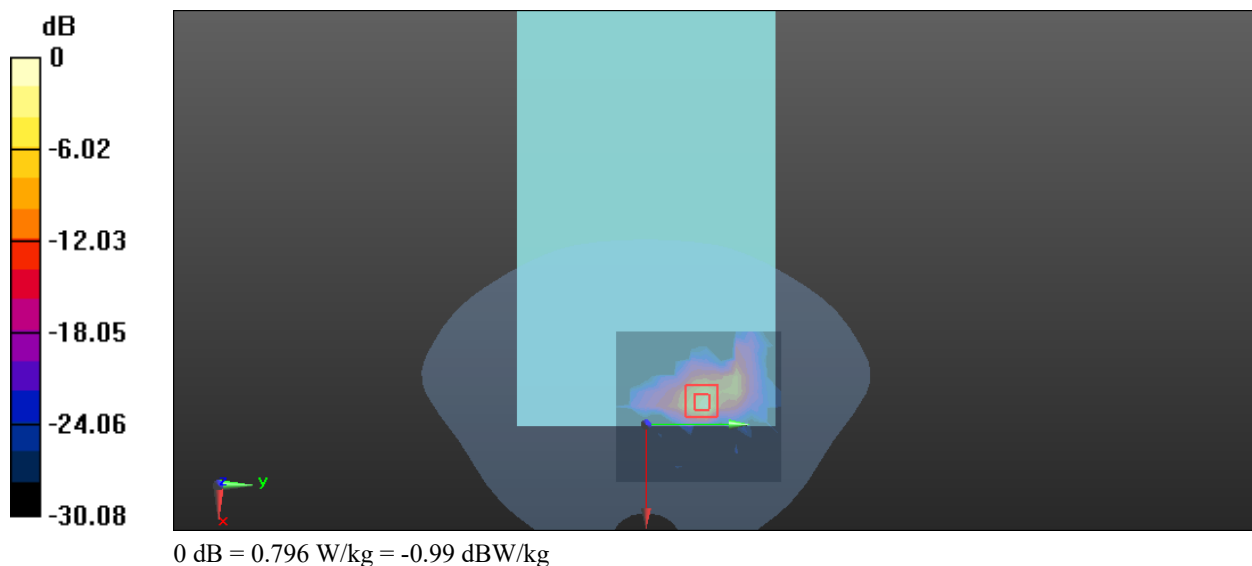
Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.057 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 47.8%

Maximum value of SAR (measured) = 0.796 W/kg



APPENDIX A MEASUREMENT UNCERTAINTY

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

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.3	6.3
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
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
Post-processing	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	5.2	N	1	1	1	5.2	5.2
Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.1	23.7

APPENDIX B EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

APPENDIX C CALIBRATION CERTIFICATES

Please Refer to the Attachment.

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