

RF Exposure report



The following samples were submitted and identified on behalf of the client as:

EUT Description	Gizmo Watch 4
Brand Name	Verizon
Model No.	FPLX26
Applicant	FIH CO., LTD. No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	RYQFPLX26
Date of EUT Receipt	Dec. 03, 2025
Date of Test(s)	Dec. 17, 2025 ~ Jan. 09, 2026
Date of Issue	Jan. 23, 2026

Approved By /

John Teh

John Yeh

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

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2512000981E5	00	Initial creation of document	Jan. 23, 2026	Cindy Chou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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1 GENERAL INFORMATION

1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB 447498 D01v06

KDB 865664 D01v01r04

KDB 865664 D02v01r02

KDB 941225 D05v02r05

KDB 248227 D01v02r02

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1.2 Description of EUT

EUT Description	Gizmo Watch 4	
Brand Name	Verizon	
Model No.	FPLX26	
Duty Cycle	LTE FDD	1
Duty Cycle	WLAN 802.11	Please refer to section 3
	Bluetooth	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	LTE FDD Band 4	1710-1755
	LTE FDD Band 5	824-849
	LTE FDD Band 13	777-787
Supported radios (TX Frequency Range, MHz)	802.11 b/g/n	2.4GHz (2400.0 – 2483.5 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

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1.3 Maximum value

Body

Summary of Maximum SAR Value	
Mode	Highest SAR 1g (W/kg)
LTE Band 4	1.19
Bluetooth(GFSK)	0.05
2.4G WLAN	0.17

Limb

Summary of Maximum SAR and Power Density Value	
Mode	Highest SAR 10g (W/kg)
LTE Band 4	1.20
Bluetooth(GFSK)	0.13
2.4G WLAN	0.10

1.4 Antenna Information

Vendor	Coxon Group		
Antenna	Main		
Frequency(MHz)	13	5	4
	777~787	824~849	1710~1755
Peak Gain (dBi)	-3.81	-5.37	-0.58

Vendor	Coxon Group
Antenna	WIFI
Frequency(MHz)	2400~2500
Peak Gain (dBi)	-4.07479

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	Test Engineer	Project Manager	FCC Designation number/ Registration Number	IC CAB identifier/ Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan	SAR 2	-	-	TW0029/ 150169	TW3702/ 23862
		SAR 6	-	-		
		SAR 8	-	-		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	Bond Tsai	Stella Chang	TW0028/ 200037	TW3702/ 4620E
		SAR 4	-	-		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	-	-	TW0027/ 891563	TW3702/ 4620A
		SAR 7	-	-		

Note: Test site name is remarked on a bolded mark as an indication where measurements occurred in specific test site and address.

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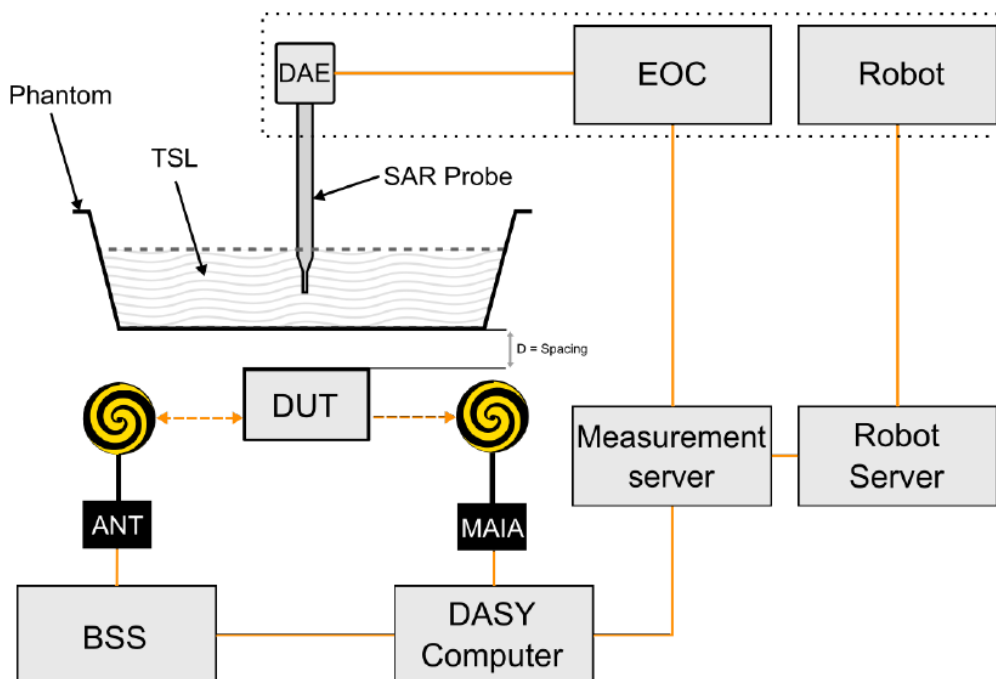
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Block Diagram (DASY8)

The DASY system used 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 amplification, 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 Windows and the DASY 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.

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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/2450 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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PHANTOM (ELI)

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit various kind of notebooks.	
		Device Holder

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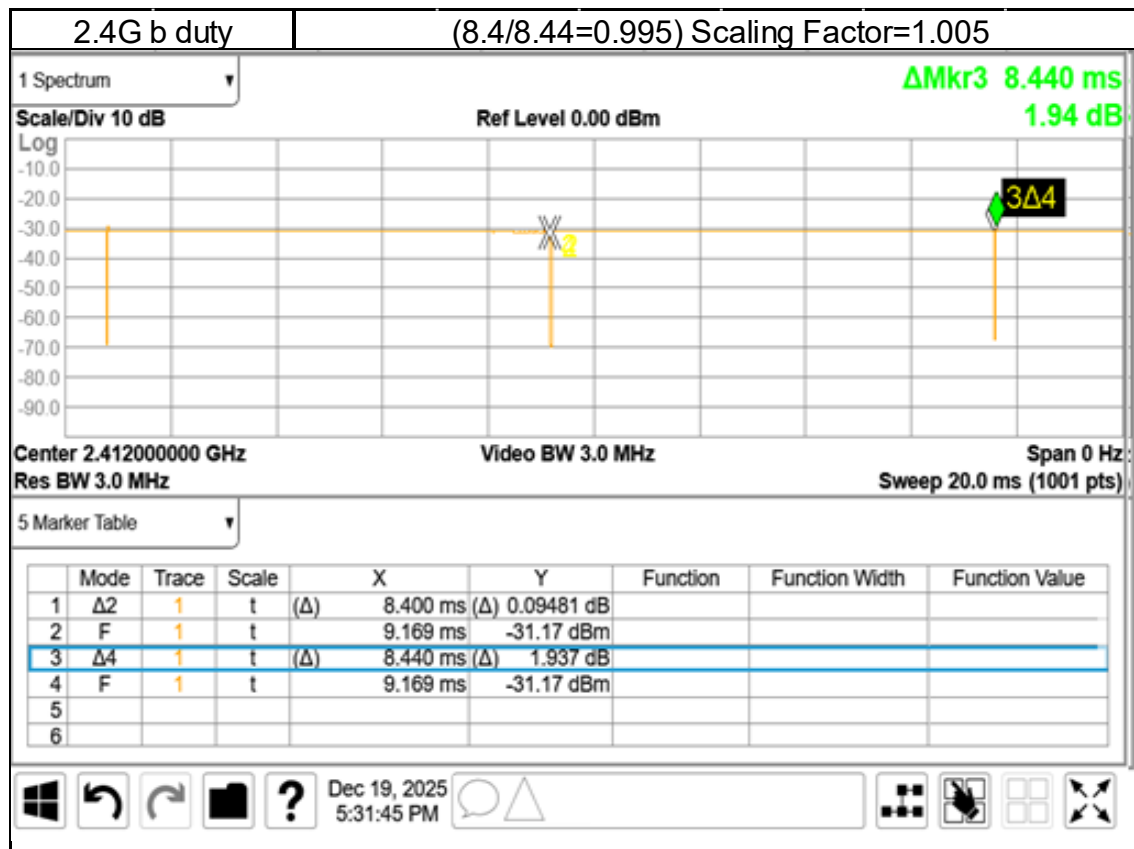
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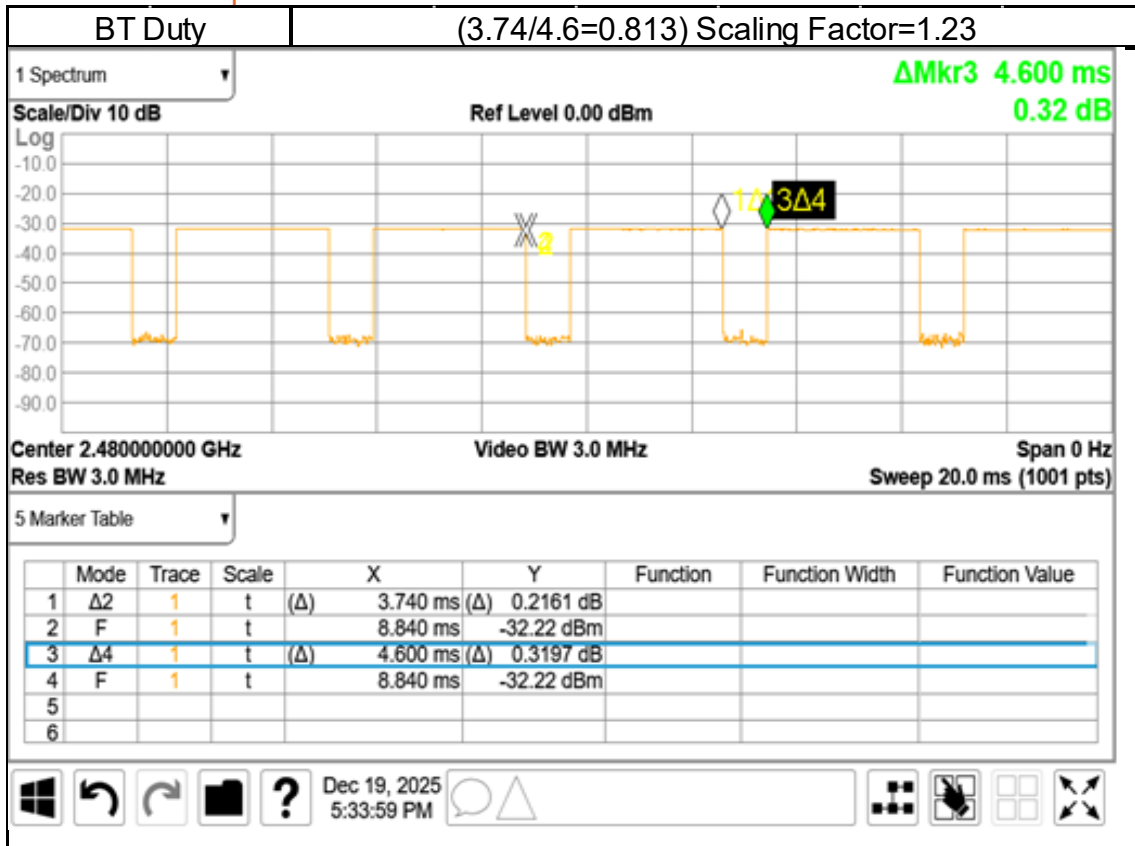
3 DUTY CYCLE



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4 SAR SYSTEM VERIFICATION

4.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear rint (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

4.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

4.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
750	41.90	0.89	42.54	0.91	1.52%	1.91%	$\pm 5\%$	Dec. 18, 2025
782	41.75	0.89	42.37	0.91	1.49%	1.93%	$\pm 5\%$	
829	41.53	0.90	42.17	0.92	1.55%	2.75%	$\pm 5\%$	
835	41.50	0.90	42.15	0.93	1.56%	2.89%	$\pm 5\%$	
836.5	41.50	0.90	42.14	0.93	1.55%	2.82%	$\pm 5\%$	
844	41.50	0.91	42.12	0.93	1.48%	2.12%	$\pm 5\%$	
1720	40.13	1.35	40.72	1.39	1.48%	2.83%	$\pm 5\%$	
1732.5	40.12	1.36	40.70	1.40	1.46%	2.91%	$\pm 5\%$	
1745	40.10	1.37	40.68	1.41	1.44%	2.91%	$\pm 5\%$	
1750	40.10	1.37	40.67	1.41	1.43%	2.92%	$\pm 5\%$	
2402	39.30	1.76	39.88	1.82	1.49%	3.67%	$\pm 5\%$	Dec. 19, 2025
2412	39.28	1.77	39.86	1.83	1.49%	3.67%	$\pm 5\%$	
2417	39.27	1.77	39.85	1.84	1.49%	3.65%	$\pm 5\%$	
2437	39.23	1.79	39.82	1.85	1.51%	3.65%	$\pm 5\%$	
2441	39.22	1.79	39.81	1.86	1.51%	3.62%	$\pm 5\%$	
2450	39.20	1.80	39.79	1.87	1.52%	3.61%	$\pm 5\%$	
2457	39.19	1.81	39.79	1.87	1.52%	3.57%	$\pm 5\%$	
2462	39.18	1.81	39.78	1.88	1.52%	3.49%	$\pm 5\%$	
2480	39.16	1.83	39.76	1.89	1.52%	3.33%	$\pm 5\%$	

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750	41.900	0.890	41.742	0.889	-0.38%	-0.11%	± 5%	Jan. 08, 2026
782	41.749	0.894	41.575	0.892	-0.42%	-0.20%	± 5%	
829	41.528	0.899	41.376	0.904	-0.37%	0.52%	± 5%	
835	41.500	0.900	41.355	0.906	-0.35%	0.67%	± 5%	
836.5	41.500	0.902	41.347	0.907	-0.37%	0.60%	± 5%	
844	41.500	0.910	41.322	0.909	-0.43%	-0.08%	± 5%	
1720	40.127	1.354	39.926	1.365	-0.50%	0.84%	± 5%	
1732.5	40.116	1.360	39.906	1.372	-0.52%	0.85%	± 5%	
1745	40.105	1.367	39.887	1.379	-0.54%	0.86%	± 5%	
1750	40.100	1.370	39.879	1.382	-0.55%	0.88%	± 5%	
2402	39.296	1.758	39.085	1.787	-0.54%	1.63%	± 5%	Jan. 09, 2026
2412	39.276	1.767	39.068	1.796	-0.53%	1.64%	± 5%	
2417	39.266	1.771	39.059	1.800	-0.53%	1.61%	± 5%	
2437	39.226	1.789	39.023	1.817	-0.52%	1.58%	± 5%	
2441	39.218	1.792	39.016	1.821	-0.52%	1.61%	± 5%	
2450	39.200	1.800	39.000	1.829	-0.51%	1.61%	± 5%	
2457	39.191	1.807	38.991	1.835	-0.51%	1.52%	± 5%	
2462	39.184	1.813	38.985	1.839	-0.51%	1.45%	± 5%	
2480	39.160	1.832	38.962	1.855	-0.51%	1.26%	± 5%	

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4.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

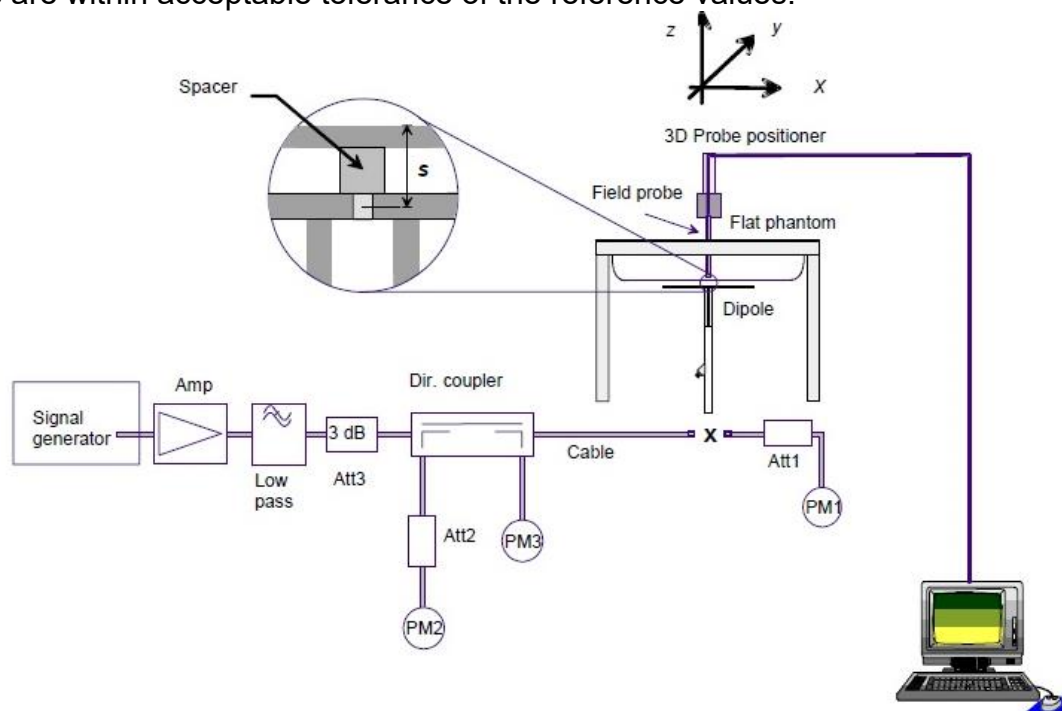
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

4.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values.

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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4.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D750V3	1015	750	8.54	2.18	8.72	2.11	± 10%	Dec.18,2025
D835V2	4d063	835	9.47	2.55	10.2	7.71	± 10%	Dec.18,2025
D1750V2	1008	1750	36.4	8.41	33.64	-7.58	± 10%	Dec.18,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.6	12.7	50.8	-3.42	± 10%	Dec.19,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D750V3	1015	750	8.54	1.97	7.88	-7.73	± 10%	Jan.08,2026
D835V2	4d063	835	9.47	2.32	9.28	-2.01	± 10%	Jan.08,2026
D1750V2	1008	1750	36.4	8.53	34.12	-6.26	± 10%	Jan.08,2026
D2450V2	727	2450	52.6	13.3	53.2	1.14	± 10%	Jan.09,2026

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5 TEST CONFIGURATIONS

5.1 Test Environment

Ambient Temperature: $22 \pm 2^{\circ}\text{C}$

Tissue Simulating Liquid: $22 \pm 2^{\circ}\text{C}$

5.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is $\leq 0.8\text{ W/kg}$, when the transmission band is $\leq 100\text{ MHz}$.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is $\geq 0.8\text{ W/kg}$, repeated that measurement once. 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 $\geq 1.45\text{ W/kg}$ ($\sim 10\%$ from the 1-g SAR limit).
- **LTE:** LTE modes test according to **KDB 941225D05v02r05**.
 - a. Per Section 5.2.1, 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 for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - When the reported SAR is $\leq 0.8\text{ W/kg}$, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
 - When the reported SAR of a required test channel is $> 1.45\text{ W/kg}$, SAR is required for all three RB offset configurations for that required test channel.
 - b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
 - The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
 - c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
 - For QPSK with 100% RB allocation, SAR is not required when the highest

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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 in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.

- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

d. Per Section 5.2.4, Higher order modulations

- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

e. Per Section 5.3, other channel bandwidth standalone SAR test requirements

- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

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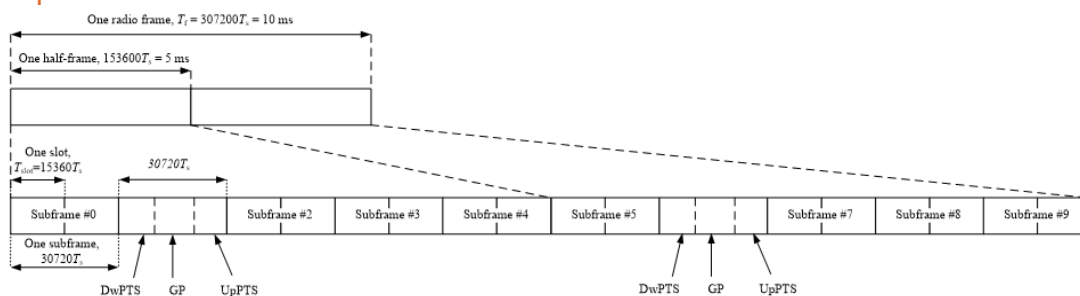


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
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	$26336 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
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	$24144 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	-	-	-
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

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

- **WLAN 2.4GHz:** 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is

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required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

- **WLAN 2.4GHz:** 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

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5.3 Test position

Next to the mouth exposure requires 1-g SAR and the wrist-worn condition requires 10-g extremity SAR. When SAR evaluation is required, next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom. The wrist bands should be strapped together to represent normal use conditions. SAR for wrist exposure is evaluated with the back of the device positioned in direct contact against a flat phantom. The wrist bands should be unstrapped and touching the phantom.

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5.4 Test limit

[§ 2.1093\(d\)\(1\)](#)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in [§ 1.1310](#) as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in [§ 1.1310\(a\)](#) through [\(c\) of this chapter](#) shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

[§ 1.1310\(a\)](#)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

[§ 1.1310\(b\)](#)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

[§ 1.1310\(c\)](#)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in [Section 4.2](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, [Section 17.4.5](#), copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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6 MAXIMUM OUTPUT POWER

6.1 FDD LTE

LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1720	1732.5	1745		
Channel				20050	20175	20300		
20	QPSK	1	0	21.84	22.99	22.01	23.50	0
		1	50	22.88	22.71	22.83	23.50	0
		1	99	22.77	22.74	22.81	23.50	0
		50	0	21.79	21.77	21.81	22.50	1
		50	25	21.89	21.78	21.84	22.50	1
		50	50	21.77	21.72	21.79	22.50	1
		100	0	21.71	21.85	21.72	22.50	1
20	16-QAM	1	0	21.75	21.89	21.72	22.50	1
		1	50	21.82	21.82	21.84	22.50	1
		1	99	21.83	21.83	21.77	22.50	1
20	64-QAM	1	0	20.79	20.85	20.85	21.50	2
		1	50	20.86	20.88	20.73	21.50	2
		1	99	20.78	20.71	20.72	21.50	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
Channel				20025	20175	20325		
15	QPSK	1	0	22.79	22.90	22.86	23.50	0
		1	36	22.72	22.89	22.73	23.50	0
		1	74	22.78	22.72	22.74	23.50	0
		36	0	21.83	21.80	21.80	22.50	1
		36	18	21.83	21.83	21.79	22.50	1
		36	37	21.78	21.88	21.83	22.50	1
		75	0	21.82	21.72	21.81	22.50	1
15	16-QAM	1	0	21.88	21.82	21.72	22.50	1
		1	36	21.83	21.77	21.85	22.50	1
		1	74	21.88	21.84	21.85	22.50	1
15	64-QAM	1	0	20.78	20.74	20.71	21.50	2
		1	36	20.82	20.75	20.71	21.50	2
		1	74	20.83	20.82	20.71	21.50	2

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1732.5	1750		
Channel				20000	20175	20350		
10	QPSK	1	0	22.81	22.82	22.76	23.50	0
		1	25	22.85	22.71	22.77	23.50	0
		1	49	22.90	22.72	22.73	23.50	0
		25	0	21.90	21.89	21.89	22.50	1
		25	12	21.84	21.79	21.83	22.50	1
		25	25	21.82	21.77	21.87	22.50	1
		50	0	21.80	21.85	21.85	22.50	1
10	16-QAM	1	0	21.84	21.79	21.75	22.50	1
		1	25	21.80	21.78	21.84	22.50	1
		1	49	21.89	21.74	21.83	22.50	1
10	64-QAM	1	0	20.81	20.80	20.82	21.50	2
		1	25	20.83	20.72	20.75	21.50	2
		1	49	20.81	20.79	20.73	21.50	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	22.77	22.70	22.77	23.50	0
		1	12	22.78	22.86	22.86	23.50	0
		1	24	22.87	22.70	22.77	23.50	0
		12	0	21.88	21.90	21.82	22.50	1
		12	6	21.87	21.72	21.84	22.50	1
		12	13	21.76	21.76	21.70	22.50	1
		25	0	21.86	21.77	21.89	22.50	1
5	16-QAM	1	0	21.84	21.79	21.88	22.50	1
		1	12	21.88	21.79	21.84	22.50	1
		1	24	21.72	21.87	21.71	22.50	1
5	64-QAM	1	0	20.81	20.70	20.82	21.50	2
		1	12	20.81	20.90	20.74	21.50	2
		1	24	20.83	20.85	20.80	21.50	2

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BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
Channel				19965	20175	20385		
3	QPSK	1	0	22.70	22.83	22.79	23.50	0
		1	7	22.86	22.78	22.76	23.50	0
		1	14	22.84	22.72	22.74	23.50	0
		8	0	21.82	21.73	21.76	22.50	1
		8	4	21.83	21.78	21.75	22.50	1
		8	7	21.84	21.85	21.71	22.50	1
		15	0	21.81	21.80	21.87	22.50	1
3	16-QAM	1	0	21.75	21.89	21.88	22.50	1
		1	7	21.75	21.85	21.72	22.50	1
		1	14	21.71	21.84	21.74	22.50	1
3	64-QAM	1	0	20.84	20.81	20.73	21.50	2
		1	7	20.83	20.71	20.71	21.50	2
		1	14	20.71	20.79	20.81	21.50	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	22.79	22.85	22.74	23.50	0
		1	2	22.76	22.77	22.73	23.50	0
		1	5	22.86	22.90	22.74	23.50	0
		3	0	22.90	22.84	22.81	23.50	0
		3	2	22.87	22.78	22.74	23.50	0
		3	3	22.81	22.86	22.80	23.50	0
		6	0	21.81	21.84	21.83	22.50	1
1.4	16-QAM	1	0	21.90	21.80	21.78	22.50	1
		1	2	21.80	21.79	21.77	22.50	1
		1	5	21.89	21.75	21.81	22.50	1
1.4	64-QAM	1	0	20.88	20.90	20.78	21.50	2
		1	2	20.70	20.75	20.74	21.50	2
		1	5	20.89	20.80	20.86	21.50	2

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BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				829	836.5	844		
Channel				20450	20525	20600		
10	QPSK	1	0	23.07	23.46	24.33	24.80	0
		1	25	24.01	23.98	23.91	24.80	0
		1	49	23.98	24.00	24.06	24.80	0
		25	0	23.03	22.94	23.05	23.80	1
		25	12	23.08	23.09	22.90	23.80	1
		25	25	23.01	22.92	23.05	23.80	1
		50	0	23.08	22.94	22.98	23.80	1
10	16-QAM	1	0	22.96	22.90	23.09	23.80	1
		1	25	22.99	23.09	23.10	23.80	1
		1	49	22.90	22.97	22.91	23.80	1
10	64-QAM	1	0	21.98	21.95	21.97	22.80	2
		1	25	21.99	22.07	22.09	22.80	2
		1	49	22.06	21.90	22.07	22.80	2
LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	23.97	24.08	23.91	24.80	0
		1	12	24.07	23.90	24.09	24.80	0
		1	24	23.96	24.03	23.90	24.80	0
		12	0	22.93	23.03	23.01	23.80	1
		12	6	22.96	23.04	22.90	23.80	1
		12	13	22.98	22.98	23.02	23.80	1
		25	0	22.99	22.99	23.02	23.80	1
5	16-QAM	1	0	22.98	23.03	22.96	23.80	1
		1	12	23.00	23.07	22.97	23.80	1
		1	24	22.97	22.93	22.97	23.80	1
5	64-QAM	1	0	22.08	22.06	22.01	22.80	2
		1	12	22.00	22.06	22.08	22.80	2
		1	24	22.00	21.91	22.02	22.80	2

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BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				825.5	836.5	847.5		
Channel				20415	20525	20635		
3	QPSK	1	0	24.00	23.94	24.08	24.80	0
		1	7	23.94	24.03	23.94	24.80	0
		1	14	24.04	24.00	24.01	24.80	0
		8	0	23.00	23.08	23.06	23.80	1
		8	4	22.99	22.96	23.00	23.80	1
		8	7	22.97	23.02	22.97	23.80	1
		15	0	22.97	22.97	23.00	23.80	1
3	16-QAM	1	0	22.92	22.93	23.03	23.80	1
		1	7	23.09	23.08	22.98	23.80	1
		1	14	22.96	22.94	22.94	23.80	1
3	64-QAM	1	0	22.09	21.91	21.98	22.80	2
		1	7	21.90	22.04	21.93	22.80	2
		1	14	22.02	21.91	22.02	22.80	2
LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				824.7	836.5	848.3		
Channel				20407	20525	20643		
1.4	QPSK	1	0	23.92	23.95	23.98	24.80	0
		1	2	23.99	23.92	23.92	24.80	0
		1	5	23.97	24.04	24.02	24.80	0
		3	0	24.02	23.98	24.06	24.80	0
		3	2	23.96	23.95	23.93	24.80	0
		3	3	23.91	23.93	24.01	24.80	0
		6	0	23.02	23.09	23.01	23.80	1
1.4	16-QAM	1	0	23.06	22.90	23.08	23.80	1
		1	2	22.92	23.03	22.93	23.80	1
		1	5	23.00	23.00	23.03	23.80	1
1.4	64-QAM	1	0	22.00	21.99	21.99	22.80	2
		1	2	21.97	22.10	22.07	22.80	2
		1	5	22.05	22.09	21.92	22.80	2

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LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				782				
Channel				23230				
10	QPSK	1	0		24.19		24.80	0
		1	25		23.99		24.80	0
		1	49		24.13		24.80	0
		25	0		23.15		23.80	1
		25	12		22.74		23.80	1
		25	25		22.82		23.80	1
		50	0		22.88		23.80	1
10	16-QAM	1	0		23.22		24.30	1
		1	25		23.38		24.30	1
		1	49		23.25		24.30	1
10	64-QAM	1	0		21.88		22.80	2
		1	25		21.88		22.80	2
		1	49		21.72		22.80	2
LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			779.5	782	784.5			
Channel			23205	23230	23255			
5	QPSK	1	0	23.76	23.87	23.71	24.80	0
		1	12	23.84	23.84	23.78	24.80	0
		1	24	23.86	23.85	23.83	24.80	0
		12	0	22.76	22.76	22.89	23.80	1
		12	6	22.80	22.77	22.78	23.80	1
		12	13	22.87	22.78	22.71	23.80	1
		25	0	22.82	22.82	22.89	23.80	1
5	16-QAM	1	0	23.23	23.36	23.27	24.30	1
		1	12	23.21	23.26	23.32	24.30	1
		1	24	23.20	23.28	23.38	24.30	1
5	64-QAM	1	0	21.70	21.86	21.88	22.80	2
		1	12	21.90	21.86	21.74	22.80	2
		1	24	21.85	21.71	21.81	22.80	2

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6.2 WLAN

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	17.50	16.46
		6	2437		17.50	16.40
		11	2462		17.50	16.34
	802.11g	1	2412	6Mbps	16.00	14.98
		6	2437		16.00	14.96
		11	2462		16.00	14.95
	802.11n20-HT0	1	2412	MCS0	14.00	12.97
		6	2437		14.00	12.96
		11	2462		14.00	12.82
	802.11n40-HT0	3	2422	MCS0	14.00	12.96
		6	2437		14.00	12.99
		9	2452		14.00	12.95

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6.3 Bluetooth

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	7.50	6.96	6.50	5.46	6.50	5.51
	CH 39	2441	7.50	6.39	6.00	4.92	6.00	4.99
	CH 78	2480	7.00	5.98	6.00	4.47	6.00	4.52

6.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	9.5	8.54
	CH 19	2440	9.5	8.74
	CH 39	2480	8.5	7.51
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	9.5	8.71
	CH 19	2440	9.5	8.89
	CH 39	2480	8.5	7.68

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7 SUMMARY OF RESULTS

7.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

7.2 Summary of SAR Results

Next to the mouth

Band	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
												Measured	Reported	
LTE Band 4	20MHz	QPSK	1	50	Front Surface	10	20050	1720	23.50	22.88	115.35%	0.924	1.066	-
LTE Band 4			1	0	Front Surface	10	20175	1732.5	23.50	22.99	112.46%	1.060	1.192	001
LTE Band 4			1	50	Front Surface	10	20300	1745	23.50	22.83	116.68%	0.938	1.094	-
LTE Band 4			1	0	Front Surface**	10	20175	1732.5	23.50	22.99	112.46%	0.921	1.036	011
LTE Band 4	20MHz	QPSK	1	0	Front Surface*	10	20175	1732.5	23.50	22.99	112.46%	0.912	1.026	-
LTE Band 5	10MHz	QPSK	1	25	Front Surface	10	20450	829	24.80	24.01	119.95%	0.108	0.130	-
LTE Band 5			1	49	Front Surface	10	20525	836.5	24.80	24.00	120.23%	0.111	0.133	-
LTE Band 5			1	0	Front Surface	10	20600	844	24.80	24.33	111.43%	0.132	0.147	002
LTE Band 5			1	0	Front Surface**	10	20600	844	24.80	24.33	111.43%	0.088	0.098	012
LTE Band 13	10MHz	QPSK	1	0	Front Surface	10	23230	782	24.80	24.19	115.08%	0.283	0.326	003
LTE Band 13			1	0	Front Surface**	10	23230	782	24.80	24.19	115.08%	0.184	0.212	013

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Main	Front Surface	10	1	2412	17.50	16.46	1.01	127.06%	0.129	0.165	004
WLAN 802.11b	Main	Front Surface	10	6	2437	17.50	16.40	1.01	128.82%	0.115	0.149	-
WLAN 802.11b	Main	Front Surface	10	11	2462	17.50	16.34	1.01	130.62%	0.109	0.143	-
WLAN 802.11b	Main	Front Surface**	10	1	2412	17.50	16.46	1.01	127.06%	0.117	0.149	014
BLE_1M	Main	Front Surface	10	00	2402	9.50	8.54	1.23	124.79%	0.034	0.052	005
BLE_1M	Main	Front Surface	10	19	2440	9.50	8.74	1.23	119.12%	0.032	0.047	-
BLE_1M	Main	Front Surface	10	39	2480	8.50	7.51	1.23	125.60%	0.029	0.045	-
BLE_1M	Main	Front Surface**	10	00	2402	9.50	8.54	1.23	124.79%	0.033	0.051	015

Limb

Band	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 10g (W/kg)		ID
												Measured	Reported	
LTE Band 4	20MHz	QPSK	1	50	Back Surface	0	20050	1720	23.50	22.88	115.35%	1.020	1.177	-
LTE Band 4			1	0	Back Surface	0	20175	1732.5	23.50	22.99	112.46%	1.070	1.203	006
LTE Band 4			1	50	Back Surface	0	20300	1745	23.50	22.83	116.68%	1.010	1.178	-
LTE Band 4			1	0	Back Surface**	0	20175	1732.5	23.50	22.99	112.46%	1.000	1.125	016
LTE Band 5	10MHz	QPSK	1	25	Back Surface	0	20450	829	24.80	24.01	119.95%	0.182	0.218	-
LTE Band 5			1	49	Back Surface	0	20525	836.5	24.80	24.00	120.23%	0.186	0.224	-
LTE Band 5			1	0	Back Surface	0	20600	844	24.80	24.33	111.43%	0.195	0.217	007
LTE Band 5			1	0	Back Surface**	0	20600	844	24.80	24.33	111.43%	0.122	0.136	017
LTE Band 13	10MHz	QPSK	1	0	Back Surface	0	23230	782	24.80	24.19	115.08%	0.417	0.480	008
LTE Band 13			1	0	Back Surface**	0	23230	782	24.80	24.19	115.08%	0.208	0.239	018

Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 10g (W/kg)		ID
										Measured	Reported	
WLAN 802.11b	Main	Back Surface	0	1	2412	17.50	16.46	1.01	127.06%	0.080	0.102	009
WLAN 802.11b	Main	Back Surface	0	6	2437	17.50	16.40	1.01	128.82%	0.071	0.092	-
WLAN 802.11b	Main	Back Surface	0	11	2462	17.50	16.34	1.01	130.62%	0.064	0.084	-
WLAN 802.11b	Main	Back Surface**	0	1	2412	17.50	16.46	1.01	127.06%	0.061	0.078	019
BLE_1M	Main	Back Surface	0	00	2402	9.50	8.54	1.23	124.79%	0.087	0.134	010
BLE_1M	Main	Back Surface	0	19	2440	9.50	8.74	1.23	119.12%	0.076	0.111	-
BLE_1M	Main	Back Surface	0	39	2480	8.50	7.51	1.23	125.60%	0.063	0.097	-
BLE_1M	Main	Back Surface**	0	00	2402	9.50	8.54	1.23	124.79%	0.034	0.052	020

Note: * - repeated at the highest SAR measurement according to the KDB 865664 D01

** - Spot Check 2nd

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Note:

Reported SAR = measured SAR * Power scaling * Duty cycle scaling

7.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

7.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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8 SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 Simultaneous Transmission Scenarios:

Simultaneous Transmission configurations
WWAN+WLAN
WWAN+BT

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8.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

8.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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Simultaneous Transmission Combination Next to the mouth

			FCC Reported SAR			Scenario 1	Scenario 2
			1	2	6	1+2	1+6
			WWAN	2.4GHz WLAN Main	Bluetooth Main	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 4	Front Surface	10	1.192	0.165	0.052	1.357	1.244
LTE Band 5	Front Surface	10	0.147	0.165	0.052	0.312	0.199
LTE Band 13	Front Surface	10	0.326	0.165	0.052	0.491	0.378

Limb

			FCC Reported SAR			Scenario 1	Scenario 2
			1	2	6	1+2	1+6
			WWAN	2.4GHz WLAN Main	Bluetooth Main	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 4	Back Surface	0	1.203	0.102	0.134	1.305	1.337
LTE Band 5	Back Surface	0	0.224	0.102	0.134	0.326	0.358
LTE Band 13	Back Surface	0	0.480	0.102	0.134	0.582	0.614

8.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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9 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Mar/11/2025	Mar/10/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7466	Jan/28/2025	Jan/27/2026
SPEAG	System Validation Dipole	D750V3	1015	Sep/26/2025	Sep/25/2026
SPEAG	System Validation Dipole	D835V2	4d063	Sep/09/2025	Sep/08/2026
SPEAG	System Validation Dipole	D1750V2	1008	Sep/28/2025	Sep/27/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
Agilent	MXG Analog Signal Generator	N5181A	MY50144143	Apr/24/2025	Apr/23/2026
R&S	MXG Analog Signal Generator	SMB100A03	182012	Aug/09/2025	Aug/08/2026
Agilent	Dual-directional coupler	772D	MY46151258	Oct/08/2025	Oct/07/2026
Agilent	Dual-directional coupler	778D	MY46151242	Sep/09/2025	Sep/08/2026
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Feb/21/2025	Feb/20/2026
R&S	Power Meter	NRX	102191	Feb/21/2025	Feb/20/2026
R&S	Power Sensor	NRP50S	101770	Jun/26/2025	Jun/25/2026
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
Anritsu	Radio Communication Test	MT8820C	6201061014	Sep/04/2025	Sep/03/2026
LKM	Digital thermometer	DTM3000	3896	Dec/26/2024	Dec/25/2025
TECEP	Digital thermometer	HTC-1	EC23010602	Dec/30/2024	Dec/29/2025

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Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Mar/11/2025	Mar/10/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	3898	Sep/09/2025	Sep/08/2026
SPEAG	System Validation Dipole	D750V3	1015	Sep/26/2025	Sep/25/2026
SPEAG	System Validation Dipole	D835V2	4d063	Sep/09/2025	Sep/08/2026
SPEAG	System Validation Dipole	D1750V2	1008	Sep/28/2025	Sep/27/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
Agilent	MXG Analog Signal Generator	N5181A	MY50145142	Dec/24/2025	Dec/23/2026
R&S	MXG Analog Signal Generator	SMB100A03	182012	Aug/09/2025	Aug/08/2026
Agilent	Dual-directional coupler	772D	MY46151258	Oct/08/2025	Oct/07/2026
Agilent	Dual-directional coupler	778D	MY46151242	Sep/09/2025	Sep/08/2026
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Feb/21/2025	Feb/20/2026
R&S	Power Meter	NRX	102191	Feb/21/2025	Feb/20/2026
R&S	Power Sensor	NRP50S	101770	Jun/26/2025	Jun/25/2026
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
Anritsu	Radio Communication Test	MT8820C	6201061014	Sep/04/2025	Sep/03/2026
LKM	Digital thermometer	DTM3000	EC14010603	Nov/25/2025	Nov/24/2026
TECEP	Digital thermometer	DTM-303A	TP130077	Oct/03/2025	Oct/02/2026

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10 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	$h=c * f / e$	$i=c * g / e$	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy, Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Mechanical restrictions									
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.56%	N	1	1	0.64	0.43	1.00%	0.67%	M
Liquid Conductivity (mea.)	3.67%	N	1	1	0.6	0.49	2.20%	1.80%	M
Combined standard uncertainty		RSS					11.67%	11.57%	
Expan uncertainty (95% confidence interval), K=2							23.34%	23.14%	

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11 SAR MEASUREMENT RESULTS

ID: 001

Report No. :TESA2512000981E5

Measurement Report_LTE Band 4 (20Mhz)_Body_Front Surface_Ch 20175_QPSK_1-0_10mm

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	1732.5, 20175	8.36	1.40	40.7

Hardware Setup

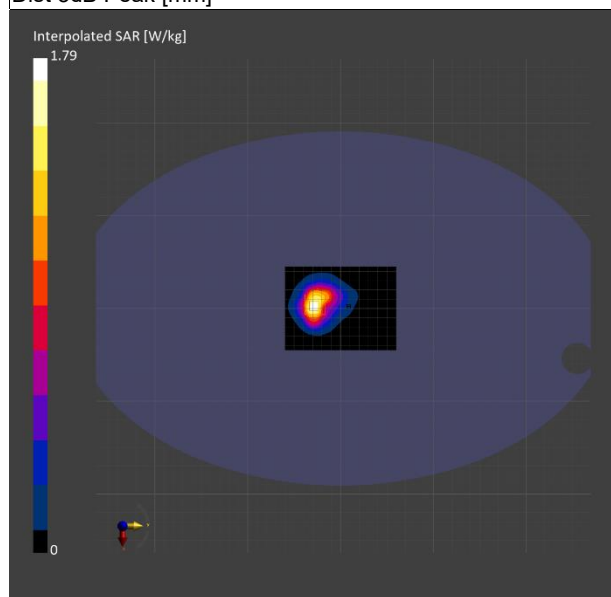
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	1.04	1.06
psSAR8g [W/kg]	0.646	0.675
psSAR10g [W/kg]	0.511	0.598
Power Drift [dB]	0.05	0.02
M2/M1 [%]		65.0
Dist 3dB Peak [mm]		11.2



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ID: 002

Report No. :TESA2512000981E5

Measurement Report_LTE Band 5 (10Mhz)_Body_Front Surface_Ch 20600_QPSK_1-0_10mm

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	844.0, 20600	9.84	0.929	42.116

Hardware Setup

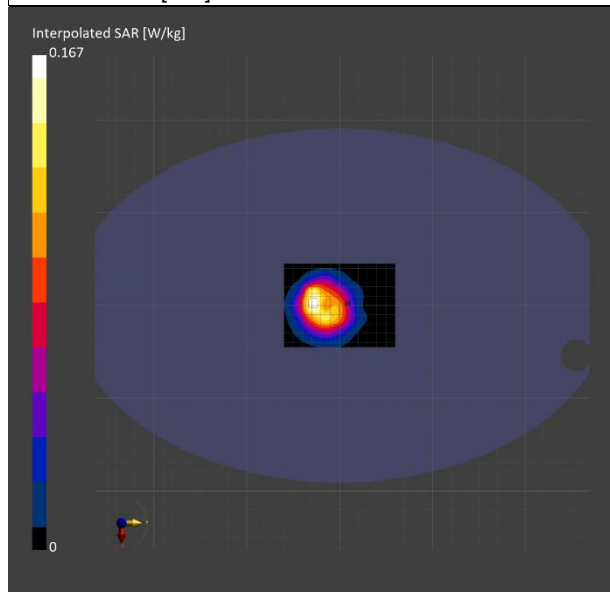
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 105.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	0.139	0.132
psSAR8g [W/kg]	0.093	0.081
psSAR10g [W/kg]	0.088	0.076
Power Drift [dB]	0.02	0.02
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		9.6



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ID: 003

Report No. :TESA2512000981E5

Measurement Report_LTE Band 13 (10Mhz)_Body_Front Surface_Ch 23230_QPSK_1-0_10mm

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	782.0, 23230	10.11	0.911	42.37

Hardware Setup

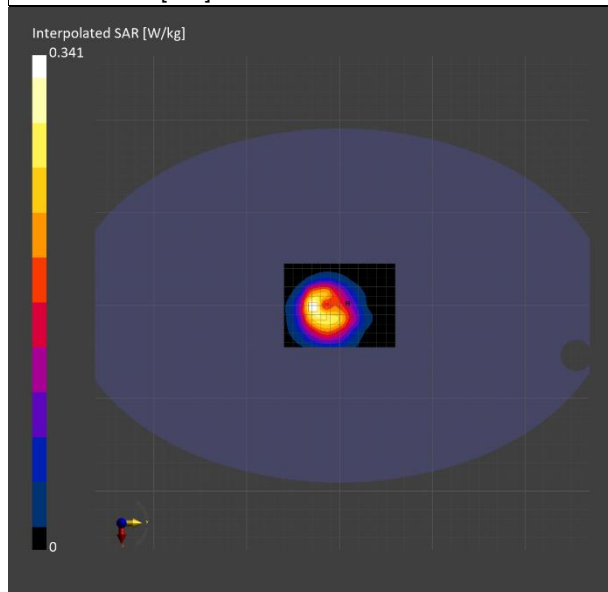
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	0.274	0.283
psSAR8g [W/kg]	0.182	0.177
psSAR10g [W/kg]	0.172	0.166
Power Drift [dB]	-0.05	0.02
M2/M1 [%]		55.4
Dist 3dB Peak [mm]		10.8



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ID: 004

Report No. :TESA2512000981E5

Measurement Report_WLAN 802.11b_Body_Front Surface_CH 1_10mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	2412.0, 1	7.38	1.832	39.862

Hardware Setup

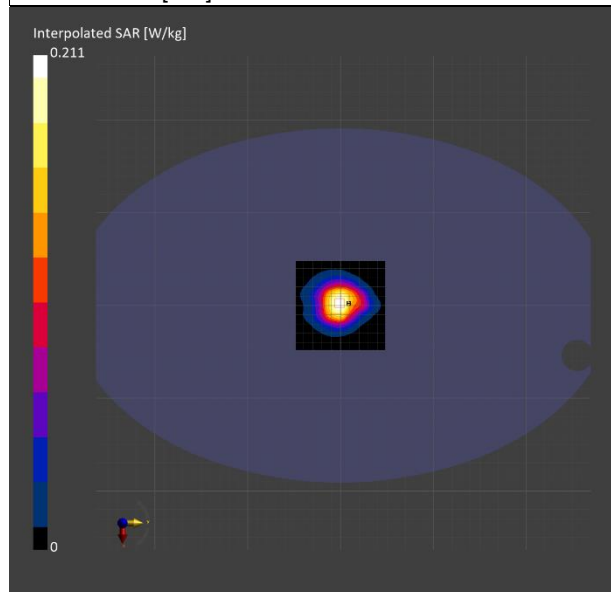
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-19	2025-12-19
psSAR1g [W/kg]	0.171	0.129
psSAR8g [W/kg]	0.101	0.083
psSAR10g [W/kg]	0.094	0.078
Power Drift [dB]	0.06	0.01
M2/M1 [%]		64.6
Dist 3dB Peak [mm]		17.9



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ID: 005

Report No. :TESA2512000981E5

Measurement Report_BLE_1M_Body_Front Surface_CH 0_10mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	2402.0, 0	7.38	1.823	39.88

Hardware Setup

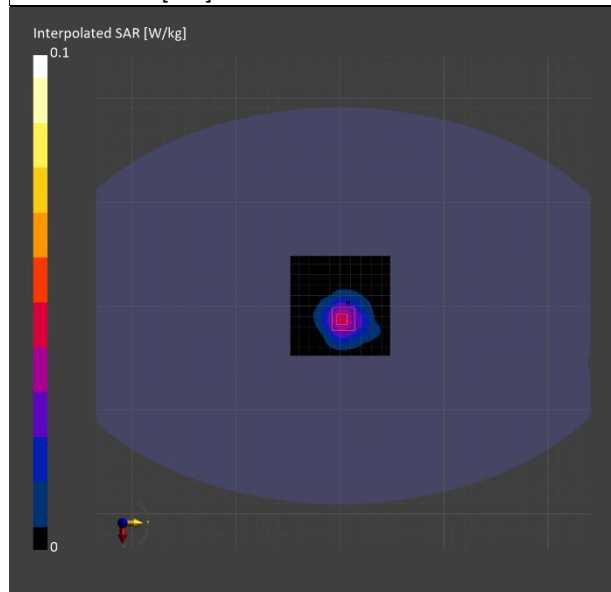
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-19	2025-12-19
psSAR1g [W/kg]	0.034	0.034
psSAR8g [W/kg]	0.020	0.021
psSAR10g [W/kg]	0.018	0.020
Power Drift [dB]	-0.03	-0.02
M2/M1 [%]		66.6
Dist 3dB Peak [mm]		14.8



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ID: 006

Report No. :TESA2512000981E5

Measurement Report_LTE Band 4 (20Mhz)_Limb_Back Surface_Ch 20175_QPSK_1-0_0mm

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	1732.5, 20175	8.36	1.40	40.7

Hardware Setup

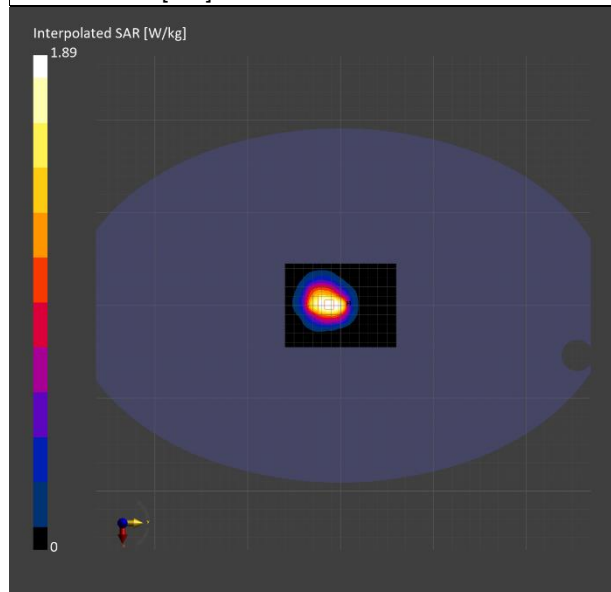
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	1.61	1.73
psSAR8g [W/kg]	1.01	1.14
psSAR10g [W/kg]	0.942	1.07
Power Drift [dB]	0.02	-0.03
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		18.7



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ID: 007

Report No. :TESA2512000981E5

Measurement Report_LTE Band 5 (10Mhz)_Limb_Back Surface_CH 20600_QPSK_1-0_0mm

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	844.0, 20600	9.84	0.929	42.116

Hardware Setup

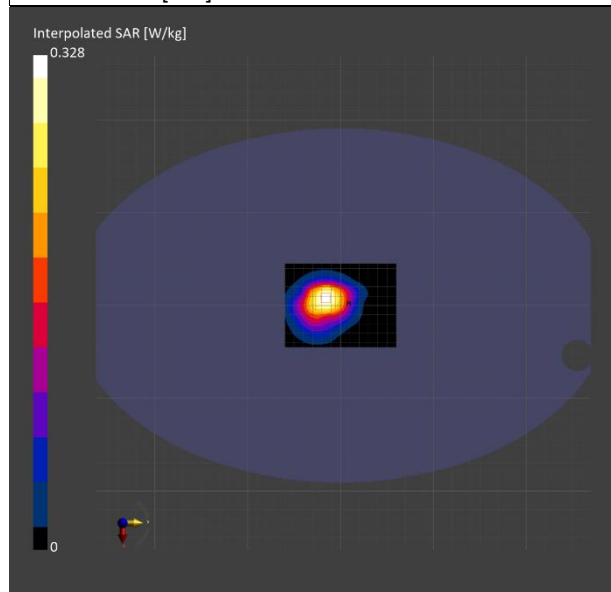
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 105.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	0.286	0.358
psSAR8g [W/kg]	0.196	0.210
psSAR10g [W/kg]	0.185	0.195
Power Drift [dB]	-0.01	-0.03
M2/M1 [%]		57.5
Dist 3dB Peak [mm]		9.6



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ID: 008

Report No. :TESA2512000981E5

Measurement Report_LTE Band 13 (10Mhz)_Limb_Back Surface_CH 23230_QPSK_1-0_0mm

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	782.0, 23230	10.11	0.911	42.37

Hardware Setup

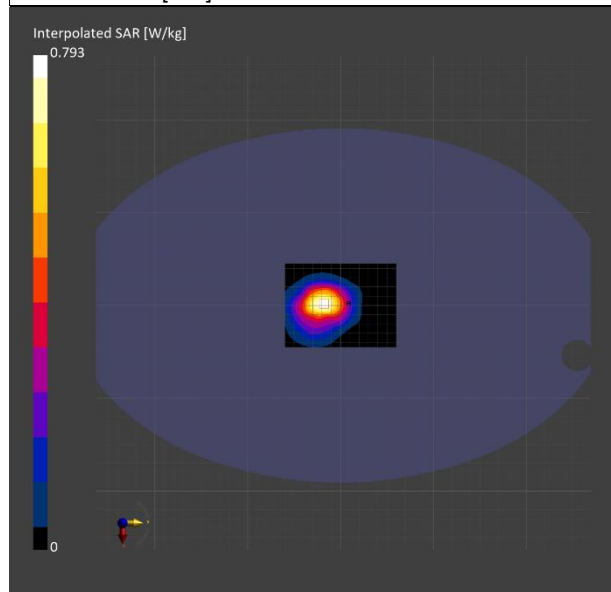
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	0.679	0.750
psSAR8g [W/kg]	0.459	0.448
psSAR10g [W/kg]	0.431	0.417
Power Drift [dB]	-0.04	-0.02
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		9.4



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ID: 009

Report No. :TESA2512000981E5

Measurement Report_WLAN 802.11b_Limb_Back Surface_CH 1_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	2412.0, 1	7.38	1.832	39.862

Hardware Setup

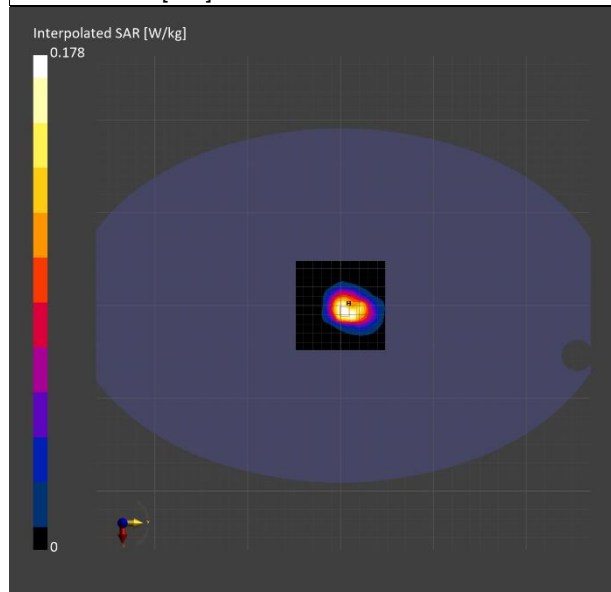
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-19	2025-12-19
psSAR1g [W/kg]	0.143	0.151
psSAR8g [W/kg]	0.082	0.088
psSAR10g [W/kg]	0.076	0.080
Power Drift [dB]	-0.02	-0.01
M2/M1 [%]		59.4
Dist 3dB Peak [mm]		7.3



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ID: 010

Report No. :TESA2512000981E5

Measurement Report_BLE_1M_Limb_Back Surface_CH 0_0mm_Main

Ambient temperature: 22.5°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	2402.0, 0	7.38	1.823	39.88

Hardware Setup

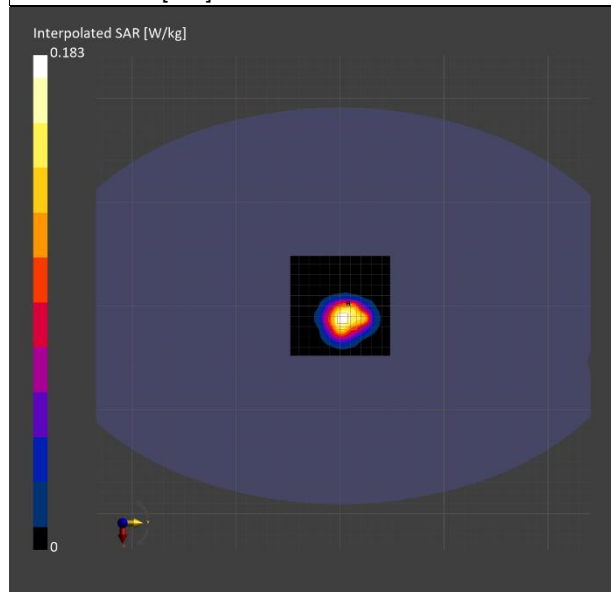
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-19	2025-12-19
psSAR1g [W/kg]	0.144	0.156
psSAR8g [W/kg]	0.083	0.094
psSAR10g [W/kg]	0.076	0.087
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		63.6
Dist 3dB Peak [mm]		10.0



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ID: 011

Report No. :TESA2512000981E5

Measurement Report_LTE Band 4 (20Mhz)_Body_Front Surface_CH 20175_QPSK_1-0_10mm

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	1732.5, 20175	7.71	1.372	39.906

Hardware Setup

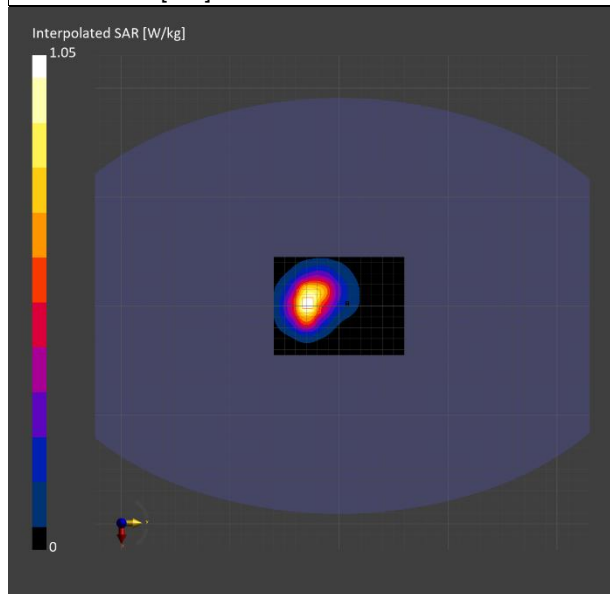
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-08	2026-01-08
psSAR1g [W/kg]	0.848	0.921
psSAR8g [W/kg]	0.517	0.594
psSAR10g [W/kg]	0.480	0.554
Power Drift [dB]	-0.01	-0.05
M2/M1 [%]		66.5
Dist 3dB Peak [mm]		13.7



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ID: 012

Report No. :TESA2512000981E5

Measurement Report_LTE Band 5 (10Mhz)_Body_Front Surface_CH 20600_QPSK_1-0_10mm

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	844.0, 20600	9.23	0.909	41.322

Hardware Setup

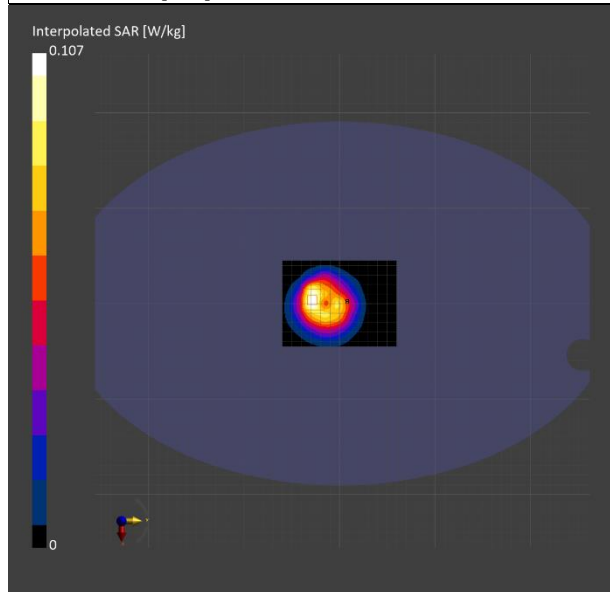
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 105.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-08	2026-01-08
psSAR1g [W/kg]	0.089	0.088
psSAR8g [W/kg]	0.059	0.053
psSAR10g [W/kg]	0.056	0.050
Power Drift [dB]	-0.03	-0.02
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		10.2



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ID: 013

Report No. :TESA2512000981E5

Measurement Report_LTE Band 13 (10Mhz)_Body_Front Surface _CH 23230_QPSK_1-0_10mm

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	782.0, 23230	9.46	0.892	41.575

Hardware Setup

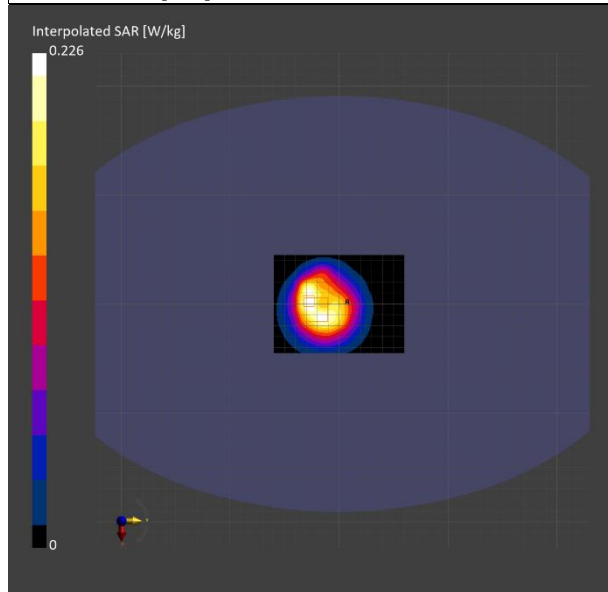
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-08	2026-01-08
psSAR1g [W/kg]	0.189	0.184
psSAR8g [W/kg]	0.131	0.119
psSAR10g [W/kg]	0.124	0.112
Power Drift [dB]	-0.01	-0.01
M2/M1 [%]		50.3
Dist 3dB Peak [mm]		10.8



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ID: 014

Report No. :TESA2512000981E5

Measurement Report_WLAN 802.11b_Body_Front Surface_CH 1_10mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	2412.0, 1	6.92	1.796	39.068

Hardware Setup

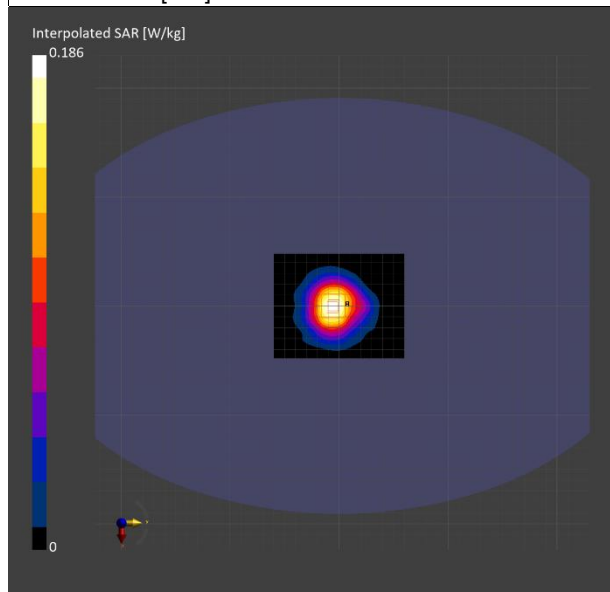
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-09	2026-01-09
psSAR1g [W/kg]	0.088	0.117
psSAR8g [W/kg]	0.053	0.072
psSAR10g [W/kg]	0.049	0.067
Power Drift [dB]	-0.01	0.01
M2/M1 [%]		63.8
Dist 3dB Peak [mm]		17.3



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ID: 015

Report No. :TESA2512000981E5

Measurement Report_BLE_1M_Body_Front Surface_CH 0_10mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Front Surface, 10.00	2402.0, 0	6.92	1.787	39.085

Hardware Setup

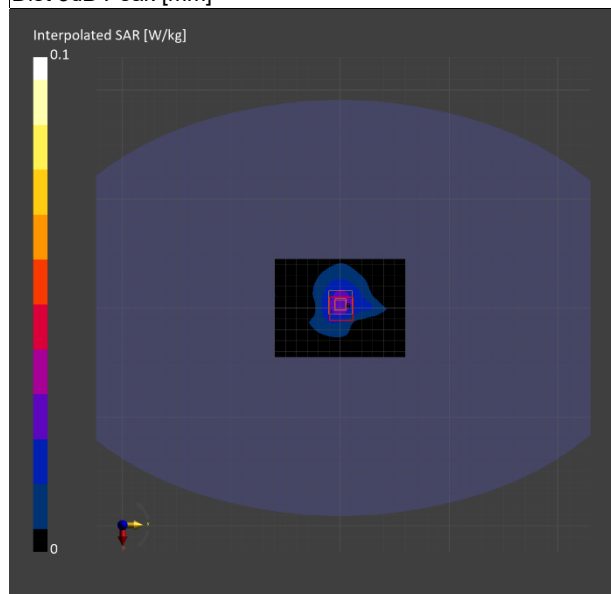
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 105.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-09	2026-01-09
psSAR1g [W/kg]	0.026	0.033
psSAR8g [W/kg]	0.015	0.020
psSAR10g [W/kg]	0.014	0.018
Power Drift [dB]	0.04	0.02
M2/M1 [%]		71.0
Dist 3dB Peak [mm]		5.9



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ID: 016

Report No. :TESA2512000981E5

Measurement Report_LTE Band 4 (20Mhz)_Limb_Back Surface_CH 20175_QPSK_1-0_0mm

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	1732.5, 20175	7.71	1.372	39.906

Hardware Setup

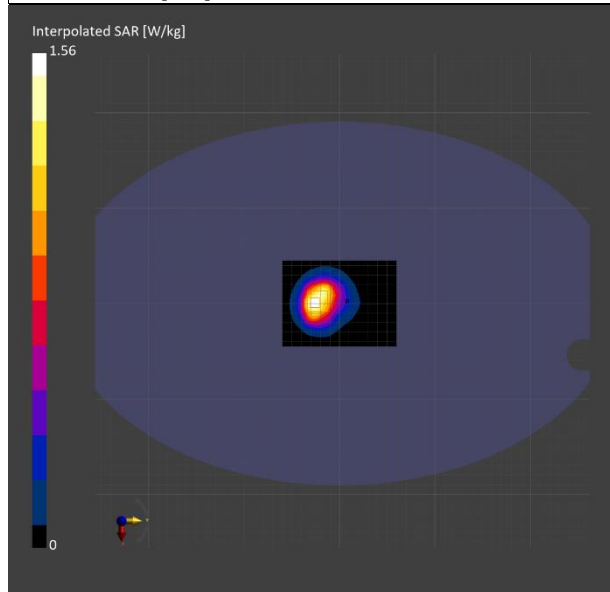
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-09	2026-01-09
psSAR1g [W/kg]	1.27	1.75
psSAR8g [W/kg]	0.788	1.08
psSAR10g [W/kg]	0.734	1.00
Power Drift [dB]	0.03	-0.02
M2/M1 [%]		62.2
Dist 3dB Peak [mm]		10.2



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ID: 017

Report No. :TESA2512000981E5

Measurement Report_LTE Band 5 (10Mhz)_Limb_Back Surface_CH 20600_QPSK_1-0_0mm

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	844.0, 20600	9.23	0.909	41.322

Hardware Setup

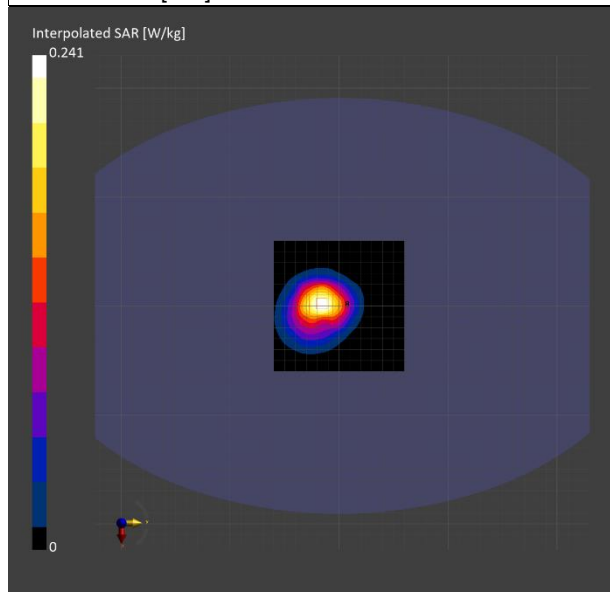
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 105.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-09	2026-01-09
psSAR1g [W/kg]	0.206	0.228
psSAR8g [W/kg]	0.139	0.131
psSAR10g [W/kg]	0.130	0.122
Power Drift [dB]	-0.03	0.04
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		9.6



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ID: 018

Report No. :TESA2512000981E5

Measurement Report_LTE Band 13 (10Mhz)_Limb_Back Surface_CH 23230_QPSK_1-0_0mm

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	782.0, 23230	9.46	0.892	41.575

Hardware Setup

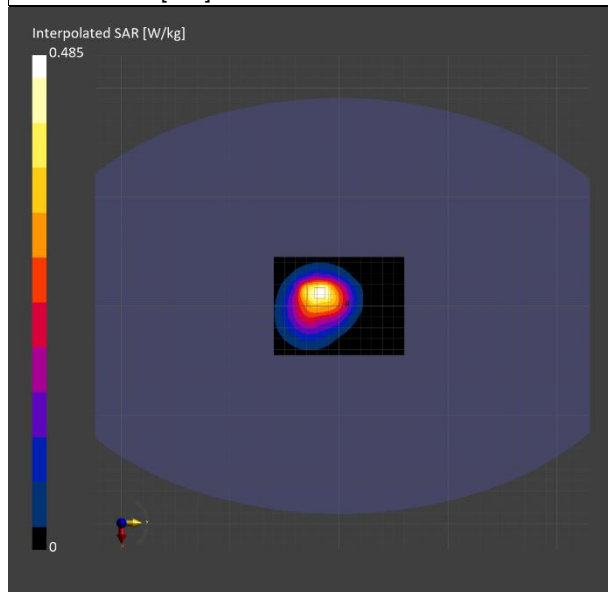
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-09	2026-01-09
psSAR1g [W/kg]	0.410	0.389
psSAR8g [W/kg]	0.273	0.224
psSAR10g [W/kg]	0.256	0.208
Power Drift [dB]	-0.02	-0.02
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		9.4



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ID: 019

Report No. :TESA2512000981E5

Measurement Report_WLAN 802.11b_Limb_Back Surface_CH 1_0mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	2412.0, 1	6.92	1.796	39.068

Hardware Setup

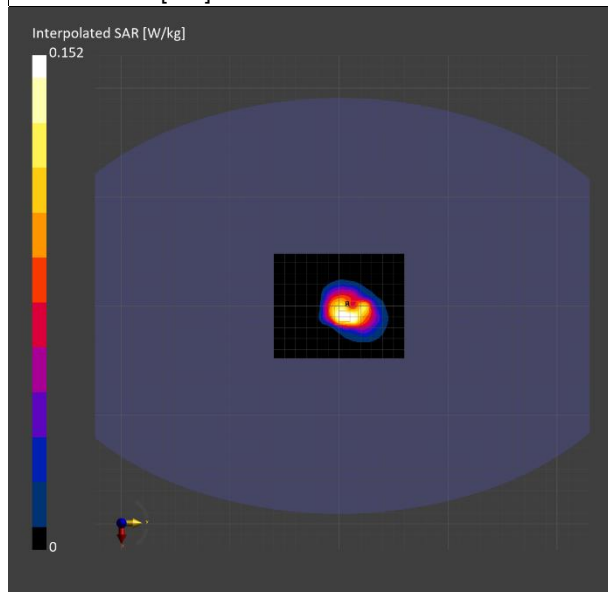
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-09	2026-01-09
psSAR1g [W/kg]	0.119	0.118
psSAR8g [W/kg]	0.066	0.067
psSAR10g [W/kg]	0.061	0.061
Power Drift [dB]	-0.05	-0.02
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		6.4



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ID: 020

Report No. :TESA2512000981E5

Measurement Report_BLE_1M_Limb_Front Surface_CH 0_0mm_Main

Ambient temperature: 22.8°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	Back Surface, 0.00	2402.0, 0	6.92	1.787	39.085

Hardware Setup

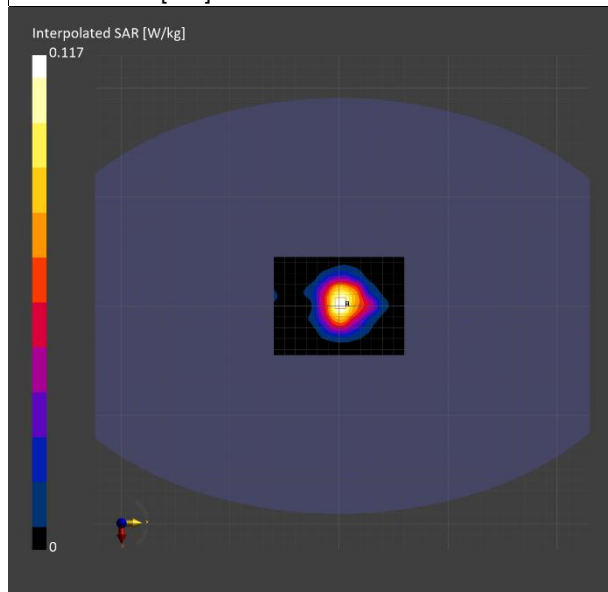
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 105.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-09	2026-01-09
psSAR1g [W/kg]	0.093	0.081
psSAR8g [W/kg]	0.054	0.039
psSAR10g [W/kg]	0.050	0.034
Power Drift [dB]	0.02	0.01
M2/M1 [%]		68.0
Dist 3dB Peak [mm]		5.7



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12 SAR SYSTEM CHECK RESULTS

Report No. :TESA2512000981E5

Measurement Report

Dipole 750 MHz_SN:1015

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 15.00	750.0, 50	10.11	0.907	42.536

Hardware Setup

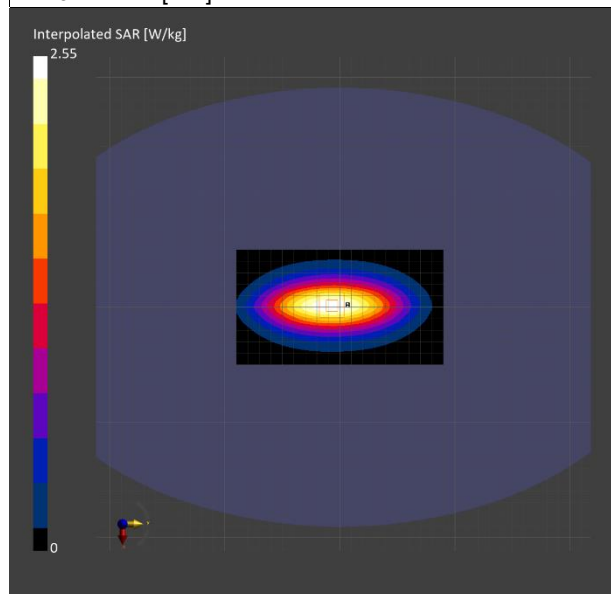
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	2.22	2.18
psSAR8g [W/kg]	1.57	1.53
psSAR10g [W/kg]	1.48	1.46
Power Drift [dB]	-0.00	0.01
M2/M1 [%]		89.1
Dist 3dB Peak [mm]		15.0



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Report No. :TESA2512000981E5

Measurement Report

Dipole 835 MHz_ SN:4d063

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 15.00	835.0, 50	9.84	0.926	42.149

Hardware Setup

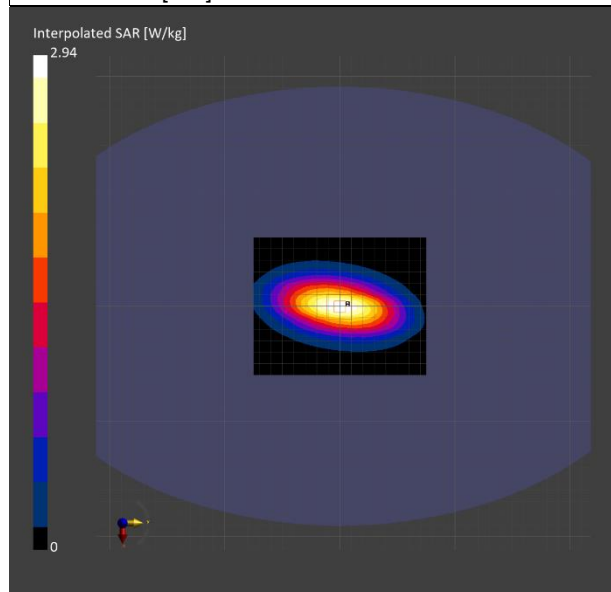
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	2.48	2.55
psSAR8g [W/kg]	1.72	1.77
psSAR10g [W/kg]	1.63	1.68
Power Drift [dB]	0.01	0.00
M2/M1 [%]		67.5
Dist 3dB Peak [mm]		17.5



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Report No. :TESA2512000981E5

Measurement Report

Dipole 1750 MHz_SN:1008

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	1750.0, 50	8.36	1.41	40.673

Hardware Setup

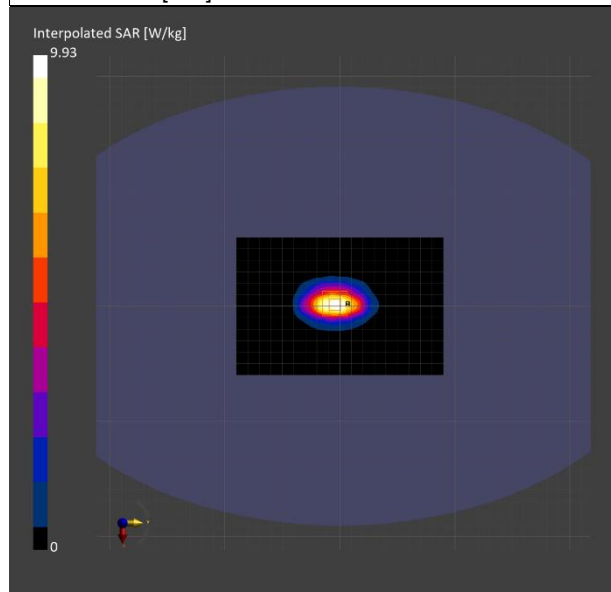
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 165.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-18	2025-12-18
psSAR1g [W/kg]	8.08	8.41
psSAR8g [W/kg]	4.73	4.94
psSAR10g [W/kg]	4.35	4.56
Power Drift [dB]	-0.03	-0.02
M2/M1 [%]		59.7
Dist 3dB Peak [mm]		10.0



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Report No. :TESA2512000981E5

Measurement Report

Dipole 2450 MHz_SN:727

Ambient temperature: 22.5°C; Liquid temperature: 21.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	2450.0, 50	7.38	1.865	39.794

Hardware Setup

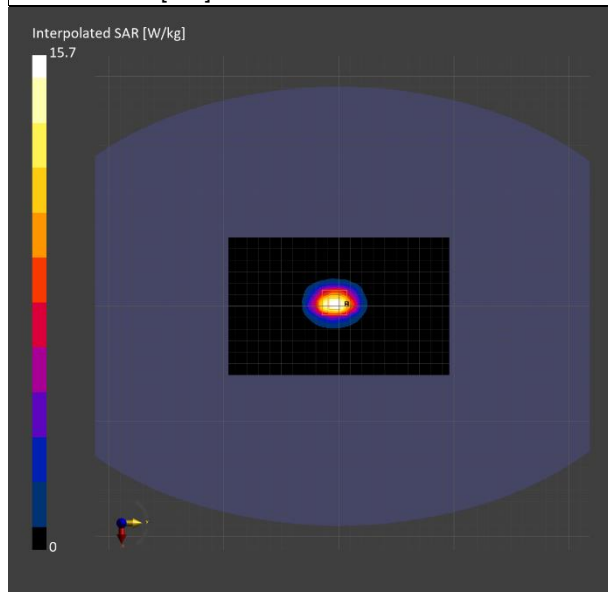
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7466, 2025-01-28	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-19	2025-12-19
psSAR1g [W/kg]	12.3	12.7
psSAR8g [W/kg]	6.48	6.61
psSAR10g [W/kg]	5.87	6.00
Power Drift [dB]	-0.02	-0.02
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		9.0



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Report No. : TESA2512000981E5

Measurement Report

Dipole 750 MHz SN:1015

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 15.00	9.46	0.889	41.742

Hardware Setup

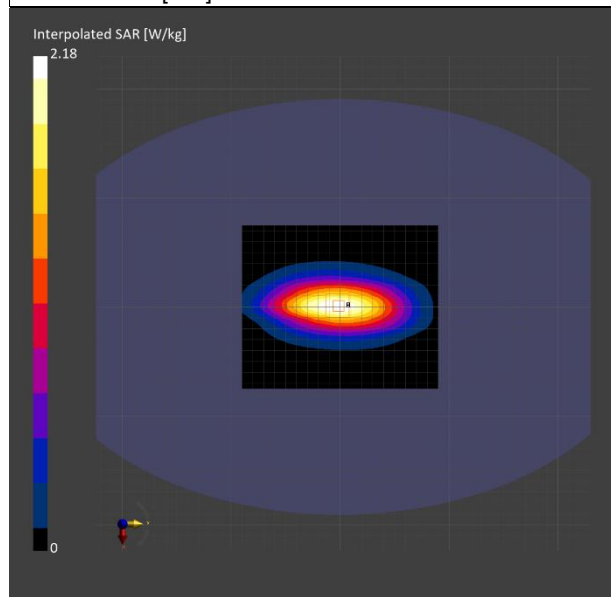
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	150.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-08	2026-01-08
psSAR1g [W/kg]	1.89	1.97
psSAR8g [W/kg]	1.33	1.43
psSAR10g [W/kg]	1.26	1.37
Power Drift [dB]	-0.04	0.02
M2/M1 [%]		75.9
Dist 3dB Peak [mm]		15.0



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Report No. : TESA2512000981E5

Measurement Report

Dipole 835 MHz SN:4d063

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 15.00	9.23	0.906	41.355

Hardware Setup

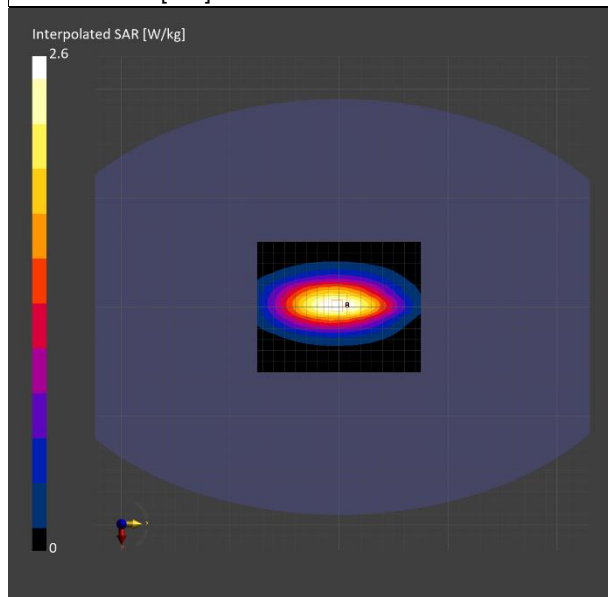
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-08	2026-01-08
psSAR1g [W/kg]	2.25	2.32
psSAR8g [W/kg]	1.57	1.69
psSAR10g [W/kg]	1.48	1.61
Power Drift [dB]	0.02	0.03
M2/M1 [%]		75.2
Dist 3dB Peak [mm]		18.9



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Report No. : TESA2512000981E5

Measurement Report

Dipole 1750 MHz, SN:1008

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	7.71	1.382	39.879

Hardware Setup

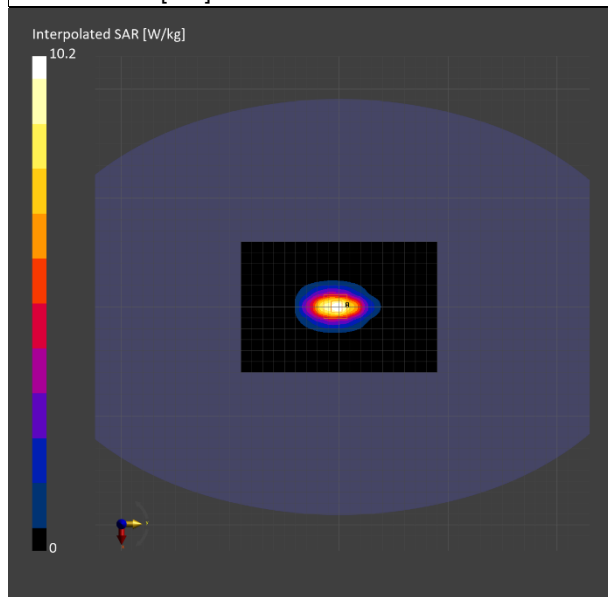
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 165.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-08	2026-01-08
psSAR1g [W/kg]	8.20	8.53
psSAR8g [W/kg]	4.75	5.22
psSAR10g [W/kg]	4.36	4.85
Power Drift [dB]	0.02	0.03
M2/M1 [%]		66.4
Dist 3dB Peak [mm]		10.0



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Report No. : TESA2512000981E5

Measurement Report

Dipole 2450 MHz, SN:727

Ambient temperature: 22.8°C; Liquid temperature: 21.2°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,HSL	FRONT, 10.00	6.92	1.829	39.0

Hardware Setup

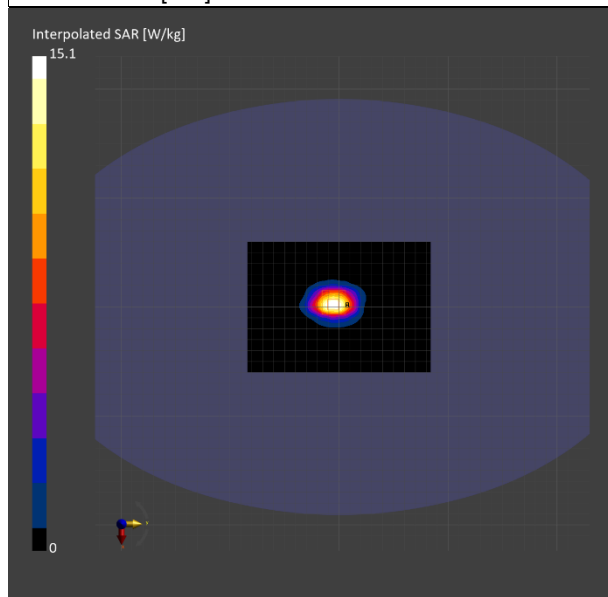
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3898, 2025-09-09	DAE4 Sn1665, 2025-03-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2026-01-09	2026-01-09
psSAR1g [W/kg]	12.1	13.3
psSAR8g [W/kg]	6.50	7.31
psSAR10g [W/kg]	5.90	6.67
Power Drift [dB]	0.01	0.05
M2/M1 [%]		59.7
Dist 3dB Peak [mm]		9.1



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Refer to separated files for the following appendixes.

13.1 SAR_Appendix A Photographs

13.2 SAR_Appendix B DAE & Probe Cal. Certificate

13.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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