

RF Exposure report



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

EUT Description S911 Lola-S
Brand Name S911 Lola-S
Model No. S911 Lola-S
Applicant Laipac Technology Inc.
25 Valleywood Drive Unit11, Markham, Ontario, Canada,
L3R 5L9
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID TET-LOLAS
Date of EUT Receipt Oct. 24, 2024
Date of Test(s) Nov. 21, 2024 ~ Nov. 23, 2024
Date of Issue Dec. 11, 2024

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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Signed on behalf of SGS

Clerk / Cindy Chou	PM / Ruby Ou	Approved By / John Yeh
Cindy Chou	Ruby Ou	John Teh

Date: Dec. 11, 2024

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2410000696ES	00	Initial creation of document	Dec. 11, 2024	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

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D05v02r05

KDB248227D01v02r02

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1.2 Description of EUT

EUT Description	S911 Lola-S	
Brand Name	S911 Lola-S	
Model No.	S911 Lola-S	
FCC ID	TET-LOLAS	
Integrated WWAN Module	Brand: Quectel Model: EG91-NA	
Duty Cycle	LTE FDD	1
Supported radios (TX Frequency Range, MHz)	LTE FDD Band 2	1850-1910
	LTE FDD Band 4	1710-1755
	LTE FDD Band 5	824-849
	LTE FDD Band 12	699-716
	LTE FDD Band 13	777-787

1.3 Maximum value

Summary of Maximum SAR Value	
Mode	Highest SAR 1g (W/kg)
LTE Band 4	1.44

1.4 Antenna Information

Vendor	Shenzhen DBT Telecommunication Technology CO.,LTD				
Frequency(MHz)	2	4	5	12	13
	1850~1910	1710~1755	824~849	699~716	777~787
Gain (dBi)	-1.84	-1.16	-7.15	-8.86	-7.47
Note: Antenna information is provided by the applicant.					

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
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	TW3702
		SAR 6		
		SAR 8		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0028	
		SAR 4		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	TW0027	
		SAR 7		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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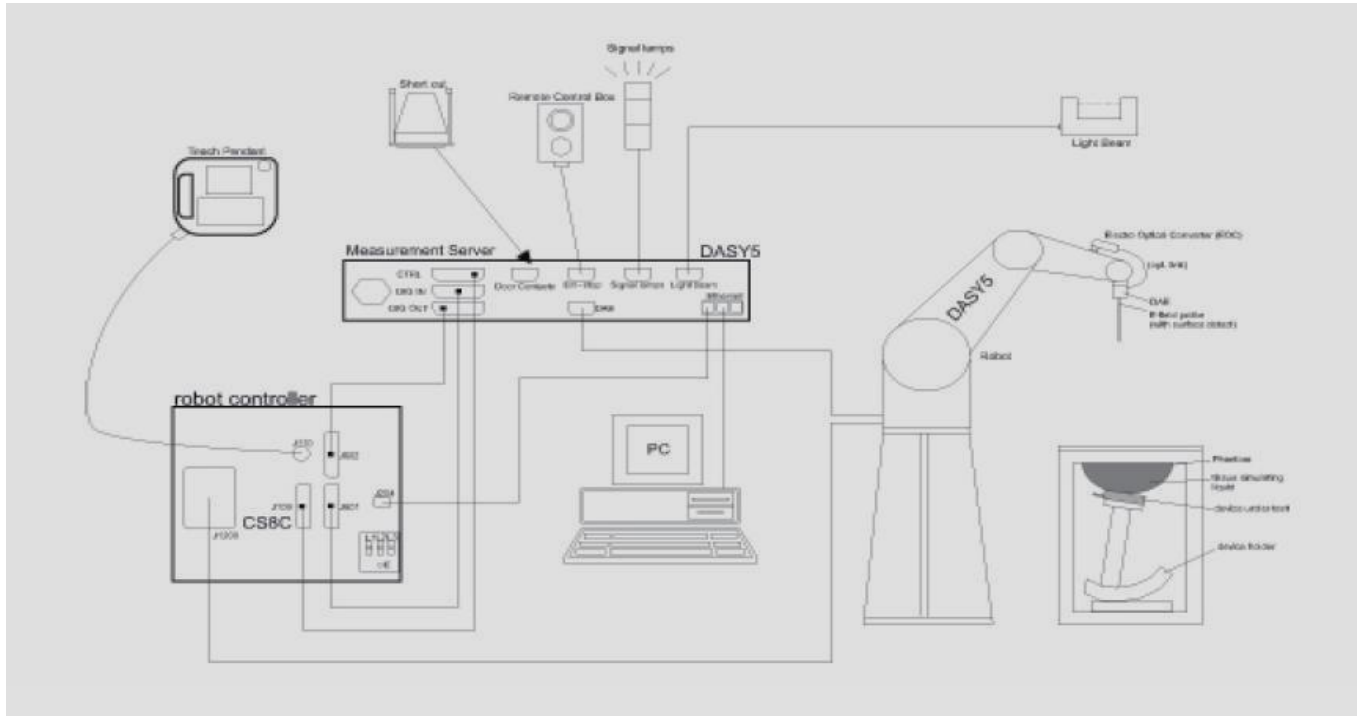
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2.2 SAR System

Block Diagram (DASY5)


A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|)^2 / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.



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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 750/835/1750/1900 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 varies kind of notebooks.	
		Device Holder

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3 SAR SYSTEM VERIFICATION

3.1 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.

3.2 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.

3.3 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
704	42.145	0.887	43.173	0.887	2.44%	0.00%	$\pm 5\%$	Nov. 22, 2024
707.5	42.127	0.887	43.148	0.892	2.42%	0.56%	$\pm 5\%$	Nov. 22, 2024
711	42.108	0.887	43.138	0.895	2.45%	0.90%	$\pm 5\%$	Nov. 22, 2024
750	41.900	0.890	42.921	0.902	2.44%	1.35%	$\pm 5\%$	Nov. 22, 2024
782	41.749	0.894	42.767	0.906	2.44%	1.34%	$\pm 5\%$	Nov. 22, 2024
829	41.528	0.899	42.566	0.910	2.50%	1.22%	$\pm 5\%$	Nov. 22, 2024
835	41.500	0.900	42.554	0.922	2.54%	2.44%	$\pm 5\%$	Nov. 22, 2024
836.5	41.500	0.902	42.525	0.925	2.47%	2.55%	$\pm 5\%$	Nov. 22, 2024
844	41.500	0.910	42.500	0.926	2.41%	1.76%	$\pm 5\%$	Nov. 22, 2024
1720	40.127	1.354	41.107	1.397	2.44%	3.18%	$\pm 5\%$	Nov. 23, 2024
1732.5	40.116	1.360	41.097	1.401	2.45%	3.01%	$\pm 5\%$	Nov. 23, 2024
1745	40.105	1.367	41.074	1.406	2.42%	2.85%	$\pm 5\%$	Nov. 23, 2024
1750	40.100	1.370	41.065	1.408	2.41%	2.77%	$\pm 5\%$	Nov. 23, 2024
1860	40.000	1.400	40.993	1.445	2.48%	3.21%	$\pm 5\%$	Nov. 23, 2024
1880	40.000	1.400	40.994	1.448	2.49%	3.43%	$\pm 5\%$	Nov. 23, 2024
1900	40.000	1.400	40.976	1.449	2.44%	3.50%	$\pm 5\%$	Nov. 23, 2024

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3.4 The composition of the tissue simulating liquid:

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

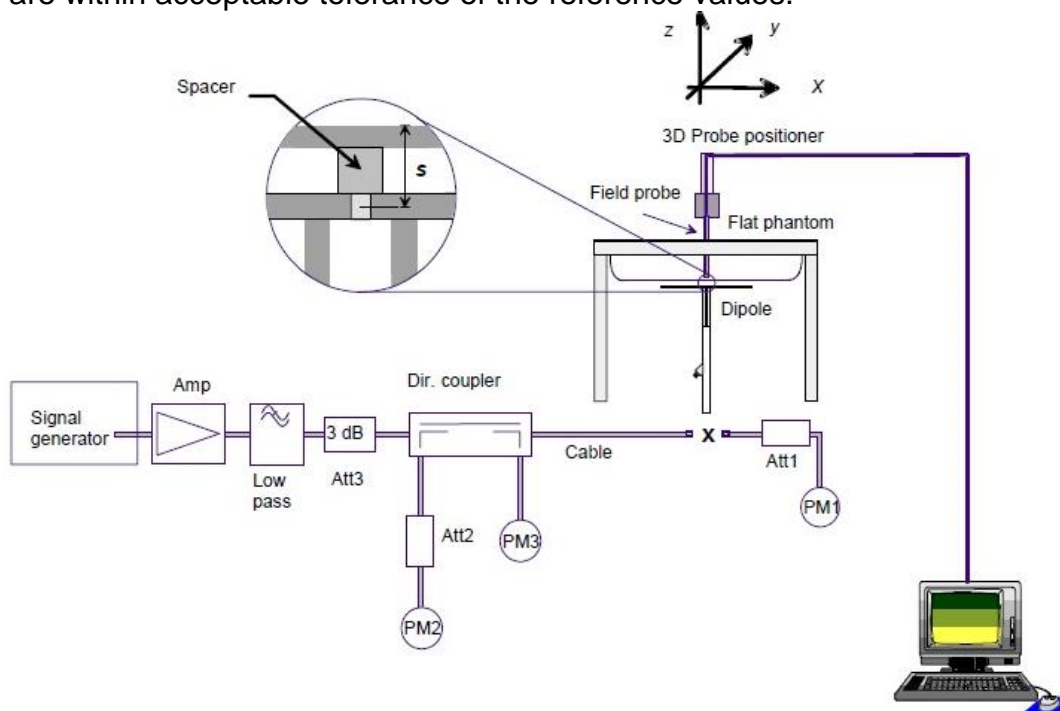
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

3.5 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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3.6 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	8.51	2.06	8.24	-3.17	± 10%	Nov.22,2024
D835V2	4d063	835	9.4	2.39	9.56	1.70	± 10%	Nov.22,2024
D1750V2	1008	1750	36.3	8.87	35.48	-2.26	± 10%	Nov.23,2024
D1900V2	5d056	1900	39.3	9.35	37.4	-4.83	± 10%	Nov.23,2024

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4 TEST CONFIGURATIONS

4.1 Test Environment

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

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

4.2 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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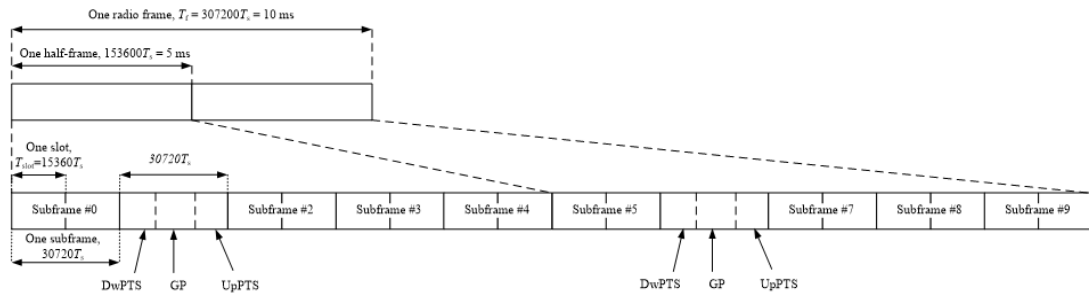


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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

Special subframe configuration n	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	GP	UpPTS	DwPTS	GP	UpPTS
0	$6592 \cdot T_s$			$7680 \cdot T_s$		
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
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
0	5 ms	D	S	U	U	D	D	S	U
1	5 ms	D	S	U	U	D	D	S	U
2	5 ms	D	S	U	D	D	D	S	U
3	10 ms	D	S	U	U	U	D	D	D
4	10 ms	D	S	U	U	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U

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%.

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4.3 Test position

The device is tested for all surfaces with 5mm distance

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4.4 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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5 MAXIMUM OUTPUT POWER

5.1 FDD LTE

LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1860	1880	1900			
Channel			18700	18900	19100			
20	QPSK	1	0	19.74	19.67	19.66	21.00	0
		1	50	19.58	19.38	19.55	21.00	0
		1	99	19.44	19.60	19.41	21.00	0
		50	0	18.36	18.53	18.56	20.00	1
		50	25	18.59	18.26	18.58	20.00	1
		50	50	18.49	18.34	18.50	20.00	1
		100	0	18.43	18.44	18.52	20.00	1
20	16-QAM	1	0	18.31	18.36	18.33	20.00	1
		1	50	18.47	18.42	18.41	20.00	1
		1	99	18.51	18.58	18.36	20.00	1
		50	0	17.35	17.46	17.45	19.00	2
		50	25	17.44	17.51	17.35	19.00	2
		50	50	17.33	17.34	17.42	19.00	2
		100	0	17.51	17.55	17.49	19.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1857.5	1880	1902.5			
Channel			18675	18900	19125			
15	QPSK	1	0	19.58	19.31	19.38	21.00	0
		1	36	19.39	19.30	19.53	21.00	0
		1	74	19.49	19.48	19.32	21.00	0
		36	0	18.51	18.31	18.57	20.00	1
		36	18	18.53	18.53	18.41	20.00	1
		36	37	18.59	18.47	18.32	20.00	1
		75	0	18.60	18.31	18.36	20.00	1
15	16-QAM	1	0	18.51	18.46	18.48	20.00	1
		1	36	18.55	18.39	18.35	20.00	1
		1	74	18.51	18.56	18.43	20.00	1
		36	0	17.35	17.38	17.56	19.00	2
		36	18	17.52	17.43	17.57	19.00	2
		36	37	17.60	17.42	17.34	19.00	2
		75	0	17.52	17.58	17.36	19.00	2

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1855	1880	1905		
Channel				18650	18900	19150		
10	QPSK	1	0	19.55	19.46	19.32	21.00	0
		1	25	19.60	19.51	19.53	21.00	0
		1	49	19.35	19.45	19.42	21.00	0
		25	0	18.37	18.53	18.46	20.00	1
		25	12	18.51	18.57	18.45	20.00	1
		25	25	18.46	18.55	18.31	20.00	1
		50	0	18.43	18.50	18.34	20.00	1
10	16-QAM	1	0	18.45	18.46	18.45	20.00	1
		1	25	18.42	18.34	18.32	20.00	1
		1	49	18.35	18.31	18.58	20.00	1
		25	0	17.60	17.42	17.53	19.00	2
		25	12	17.43	17.36	17.41	19.00	2
		25	25	17.60	17.51	17.58	19.00	2
		50	0	17.45	17.39	17.43	19.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1852.5	1880	1907.5		
Channel				18625	18900	19175		
5	QPSK	1	0	19.31	19.59	19.58	21.00	0
		1	12	19.54	19.43	19.44	21.00	0
		1	24	19.49	19.58	19.55	21.00	0
		12	0	18.32	18.44	18.35	20.00	1
		12	6	18.44	18.34	18.55	20.00	1
		12	13	18.45	18.41	18.46	20.00	1
		25	0	18.42	18.40	18.56	20.00	1
5	16-QAM	1	0	18.58	18.34	18.30	20.00	1
		1	12	18.48	18.57	18.44	20.00	1
		1	24	18.30	18.56	18.33	20.00	1
		12	0	17.45	17.41	17.40	19.00	2
		12	6	17.57	17.37	17.53	19.00	2
		12	13	17.34	17.38	17.56	19.00	2
		25	0	17.31	17.39	17.47	19.00	2

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1851.5	1880	1908.5			
Channel			18615	18900	19185			
3	QPSK	1	0	19.41	19.43	19.42	21.00	0
		1	7	19.40	19.51	19.56	21.00	0
		1	14	19.37	19.43	19.31	21.00	0
		8	0	18.38	18.53	18.52	20.00	1
		8	4	18.44	18.42	18.49	20.00	1
		8	7	18.33	18.33	18.58	20.00	1
		15	0	18.37	18.34	18.36	20.00	1
3	16-QAM	1	0	18.45	18.54	18.46	20.00	1
		1	7	18.59	18.51	18.59	20.00	1
		1	14	18.44	18.35	18.56	20.00	1
		8	0	17.44	17.48	17.43	19.00	2
		8	4	17.31	17.38	17.52	19.00	2
		8	7	17.51	17.46	17.55	19.00	2
		15	0	17.55	17.41	17.50	19.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1850.7	1880	1909.3			
Channel			18607	18900	19193			
1.4	QPSK	1	0	19.37	19.44	19.46	21.00	0
		1	2	19.50	19.51	19.40	21.00	0
		1	5	19.54	19.47	19.44	21.00	0
		3	0	19.39	19.35	19.37	21.00	0
		3	2	19.57	19.49	19.60	21.00	0
		3	3	19.56	19.36	19.52	21.00	0
		6	0	18.43	18.57	18.37	20.00	1
1.4	16-QAM	1	0	18.41	18.55	18.43	20.00	1
		1	2	18.54	18.43	18.34	20.00	1
		1	5	18.58	18.57	18.47	20.00	1
		3	0	18.42	18.44	18.48	20.00	1
		3	2	18.53	18.40	18.14	20.00	1
		3	3	18.46	18.33	18.58	20.00	1
		6	0	17.34	17.35	17.55	19.00	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)			1720	1732.5	1745			
Channel			20050	20175	20300			
20	QPSK	1	0	21.84	22.13	21.91	23.00	0
		1	50	21.65	21.69	21.68	23.00	0
		1	99	21.60	21.78	21.77	23.00	0
		50	0	20.73	20.79	20.74	22.00	1
		50	25	20.75	20.67	20.60	22.00	1
		50	50	20.76	20.69	20.71	22.00	1
		100	0	20.80	20.74	20.64	22.00	1
20	16-QAM	1	0	20.61	20.70	20.62	22.00	1
		1	50	20.80	20.72	20.64	22.00	1
		1	99	20.66	20.74	20.71	22.00	1
		50	0	19.70	19.66	19.77	21.00	2
		50	25	19.74	19.73	19.67	21.00	2
		50	50	19.68	19.60	19.64	21.00	2
		100	0	19.72	19.78	19.54	21.00	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	21.61	21.77	21.66	23.00	0
		1	36	21.57	21.74	21.78	23.00	0
		1	74	21.73	21.71	21.61	23.00	0
		36	0	20.80	20.73	20.62	22.00	1
		36	18	20.70	20.74	20.52	22.00	1
		36	37	20.71	20.61	20.63	22.00	1
		75	0	20.72	20.71	20.76	22.00	1
15	16-QAM	1	0	20.79	20.78	20.72	22.00	1
		1	36	20.70	20.74	20.71	22.00	1
		1	74	20.63	20.70	20.68	22.00	1
		36	0	19.79	19.74	19.69	21.00	2
		36	18	19.76	19.75	19.64	21.00	2
		36	37	19.74	19.70	19.62	21.00	2
		75	0	19.64	19.79	19.61	21.00	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	21.79	21.76	21.64	23.00	0
		1	25	21.70	21.76	21.57	23.00	0
		1	49	21.67	21.78	21.56	23.00	0
		25	0	20.59	20.54	20.59	22.00	1
		25	12	20.76	20.52	20.58	22.00	1
		25	25	20.53	20.66	20.78	22.00	1
		50	0	20.61	20.65	20.59	22.00	1
10	16-QAM	1	0	20.58	20.59	20.79	22.00	1
		1	25	20.66	20.79	20.63	22.00	1
		1	49	20.78	20.69	20.67	22.00	1
		25	0	19.50	19.60	19.77	21.00	2
		25	12	19.56	19.70	19.64	21.00	2
		25	25	19.71	19.50	19.67	21.00	2
		50	0	19.77	19.62	19.67	21.00	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	21.63	21.46	21.47	23.00	0
		1	12	21.78	21.41	21.72	23.00	0
		1	24	21.62	21.74	21.58	23.00	0
		12	0	20.49	20.60	20.52	22.00	1
		12	6	20.48	20.61	20.46	22.00	1
		12	13	20.77	20.49	20.48	22.00	1
		25	0	20.49	20.61	20.65	22.00	1
5	16-QAM	1	0	20.71	20.79	20.57	22.00	1
		1	12	20.60	20.44	20.72	22.00	1
		1	24	20.41	20.73	20.64	22.00	1
		12	0	19.71	19.75	19.74	21.00	2
		12	6	19.42	19.56	19.72	21.00	2
		12	13	19.72	19.49	19.41	21.00	2
		25	0	19.74	19.46	19.57	21.00	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)				1711.5	1732.5	1753.5		
Channel				19965	20175	20385		
3	QPSK	1	0	21.70	21.81	21.76	23.00	0
		1	7	21.66	21.67	21.68	23.00	0
		1	14	21.72	21.78	21.69	23.00	0
		8	0	20.67	20.67	20.82	22.00	1
		8	4	20.71	20.77	20.70	22.00	1
		8	7	20.73	20.84	20.73	22.00	1
		15	0	20.78	20.78	20.75	22.00	1
3	16-QAM	1	0	20.72	20.79	20.81	22.00	1
		1	7	20.71	20.84	20.82	22.00	1
		1	14	20.76	20.78	20.68	22.00	1
		8	0	19.80	19.85	19.70	21.00	2
		8	4	19.67	19.85	19.69	21.00	2
		8	7	19.72	19.76	19.67	21.00	2
		15	0	19.74	19.75	19.82	21.00	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	21.75	21.68	21.61	23.00	0
		1	2	21.66	21.65	21.73	23.00	0
		1	5	21.76	21.72	21.68	23.00	0
		3	0	21.60	21.66	21.77	23.00	0
		3	2	21.75	21.66	21.75	23.00	0
		3	3	21.78	21.70	21.67	23.00	0
		6	0	20.67	20.60	20.71	22.00	1
1.4	16-QAM	1	0	20.67	20.63	20.77	22.00	1
		1	2	20.75	20.70	20.67	22.00	1
		1	5	20.65	20.70	20.65	22.00	1
		3	0	20.78	20.73	20.64	22.00	1
		3	2	20.80	20.76	20.71	22.00	1
		3	3	20.66	20.74	20.62	22.00	1
		6	0	19.67	19.66	19.74	21.00	2

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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)				829	836.5	844		
Channel				20450	20525	20600		
10	QPSK	1	0	22.51	22.46	22.49	23.00	0
		1	25	22.08	22.11	22.15	23.00	0
		1	49	22.10	22.21	22.22	23.00	0
		25	0	21.32	21.37	21.12	22.00	1
		25	12	21.09	21.15	21.25	22.00	1
		25	25	21.42	21.22	21.32	22.00	1
		50	0	21.21	21.20	21.15	22.00	1
10	16-QAM	1	0	21.31	21.27	21.14	22.00	1
		1	25	21.19	21.07	21.24	22.00	1
		1	49	21.09	21.08	21.18	22.00	1
		25	0	20.16	20.21	20.12	21.00	2
		25	12	20.29	20.27	20.14	21.00	2
		25	25	20.29	20.28	20.42	21.00	2
		50	0	20.40	20.30	20.03	21.00	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	22.07	22.11	22.39	23.00	0
		1	12	22.38	22.14	22.08	23.00	0
		1	24	22.37	22.29	22.42	23.00	0
		12	0	21.24	21.20	21.36	22.00	1
		12	6	21.40	21.06	21.18	22.00	1
		12	13	21.05	21.28	21.38	22.00	1
		25	0	21.13	21.18	21.30	22.00	1
5	16-QAM	1	0	21.38	21.12	21.28	22.00	1
		1	12	21.08	21.11	21.12	22.00	1
		1	24	21.10	21.17	21.11	22.00	1
		12	0	20.27	20.07	20.30	21.00	2
		12	6	20.09	20.15	20.17	21.00	2
		12	13	20.14	20.22	20.30	21.00	2
		25	0	20.06	20.08	20.34	21.00	2

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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)			825.5	836.5	847.5			
Channel			20415	20525	20635			
3	QPSK	1	0	22.24	22.19	22.30	23.00	0
		1	7	22.26	22.08	22.42	23.00	0
		1	14	22.04	22.19	22.18	23.00	0
		8	0	21.21	21.08	21.08	22.00	1
		8	4	21.07	21.34	21.31	22.00	1
		8	7	21.37	21.17	21.25	22.00	1
		15	0	21.22	21.39	21.05	22.00	1
3	16-QAM	1	0	21.26	21.42	21.06	22.00	1
		1	7	21.05	21.05	21.08	22.00	1
		1	14	21.33	21.18	21.36	22.00	1
		8	0	20.06	20.10	20.14	21.00	2
		8	4	20.40	20.24	20.19	21.00	2
		8	7	20.36	20.25	20.39	21.00	2
		15	0	20.09	20.23	20.22	21.00	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	22.20	22.39	22.14	23.00	0
		1	2	22.07	22.40	22.42	23.00	0
		1	5	22.35	22.26	22.11	23.00	0
		3	0	22.07	22.29	22.13	23.00	0
		3	2	22.15	22.22	22.15	23.00	0
		3	3	22.17	22.29	22.39	23.00	0
		6	0	21.28	21.03	21.38	22.00	1
1.4	16-QAM	1	0	21.21	21.28	21.17	22.00	1
		1	2	21.33	21.16	21.05	22.00	1
		1	5	21.08	21.42	21.10	22.00	1
		3	0	21.05	21.29	21.07	22.00	1
		3	2	21.11	21.26	21.40	22.00	1
		3	3	21.34	21.36	21.35	22.00	1
		6	0	20.14	20.30	20.40	21.00	2

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			704	707.5	711			
Channel			23060	23095	23130			
10	QPSK	1	0	21.87	21.74	21.61	23.00	0
		1	25	21.52	21.43	21.39	23.00	0
		1	49	21.34	21.53	21.58	23.00	0
		25	0	20.43	20.47	20.42	22.00	1
		25	12	20.53	20.46	20.48	22.00	1
		25	25	20.54	20.43	20.57	22.00	1
		50	0	20.45	20.42	20.46	22.00	1
10	16-QAM	1	0	20.43	20.56	20.52	22.00	1
		1	25	20.50	20.44	20.51	22.00	1
		1	49	20.52	20.39	20.48	22.00	1
		25	0	19.49	19.50	19.46	21.00	2
		25	12	19.32	19.41	19.45	21.00	2
		25	25	19.55	19.37	19.50	21.00	2
		50	0	19.51	19.43	19.54	21.00	2
LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			701.5	707.5	713.5			
Channel			23035	23095	23155			
5	QPSK	1	0	21.37	21.53	21.54	23.00	0
		1	12	21.51	21.57	21.39	23.00	0
		1	24	21.47	21.36	21.30	23.00	0
		12	0	20.58	20.38	20.29	22.00	1
		12	6	20.57	20.53	20.57	22.00	1
		12	13	20.30	20.37	20.46	22.00	1
		25	0	20.48	20.54	20.37	22.00	1
5	16-QAM	1	0	20.38	20.29	20.29	22.00	1
		1	12	20.47	20.29	20.53	22.00	1
		1	24	20.55	20.44	20.59	22.00	1
		12	0	19.50	19.53	19.30	21.00	2
		12	6	19.41	19.37	19.34	21.00	2
		12	13	19.35	19.33	19.39	21.00	2
		25	0	19.48	19.44	19.40	21.00	2

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			700.5	707.5	714.5			
Channel			23025	23095	23165			
3	QPSK	1	0	21.52	21.54	21.45	23.00	0
		1	7	21.58	21.30	21.32	23.00	0
		1	14	21.55	21.52	21.39	23.00	0
		8	0	20.57	20.38	20.43	22.00	1
		8	4	20.30	20.47	20.32	22.00	1
		8	7	20.39	20.29	20.52	22.00	1
		15	0	20.45	20.58	20.39	22.00	1
3	16-QAM	1	0	20.54	20.50	20.43	22.00	1
		1	7	20.44	20.37	20.53	22.00	1
		1	14	20.38	20.53	20.55	22.00	1
		8	0	19.47	19.39	19.56	21.00	2
		8	4	19.43	19.55	19.41	21.00	2
		8	7	19.57	19.35	19.31	21.00	2
		15	0	19.33	19.51	19.54	21.00	2
LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			699.7	707.5	715.3			
Channel			23017	23095	23173			
1.4	QPSK	1	0	21.48	21.50	21.37	23.00	0
		1	2	21.40	21.41	21.39	23.00	0
		1	5	21.42	21.58	21.53	23.00	0
		3	0	21.35	21.59	21.31	23.00	0
		3	2	21.37	21.39	21.51	23.00	0
		3	3	21.46	21.39	21.52	23.00	0
		6	0	20.36	20.43	20.55	22.00	1
1.4	16-QAM	1	0	20.56	20.41	20.53	22.00	1
		1	2	20.57	20.46	20.54	22.00	1
		1	5	20.35	20.47	20.34	22.00	1
		3	0	20.36	20.51	20.56	22.00	1
		3	2	20.31	20.51	20.46	22.00	1
		3	3	20.49	20.30	20.30	22.00	1
		6	0	19.33	19.32	19.58	21.00	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	782	782		
Channel				23230	23230	23230		
10	QPSK	1	0	21.66			23.00	0
		1	25	21.35			23.00	0
		1	49	21.39			23.00	0
		25	0	20.25			22.00	1
		25	12	20.23			22.00	1
		25	25	20.34			22.00	1
		50	0	20.40			22.00	1
10	16-QAM	1	0	20.26			22.00	1
		1	25	20.32			22.00	1
		1	49	20.52			22.00	1
		25	0	19.46			21.00	2
		25	12	19.51			21.00	2
		25	25	19.37			21.00	2
		50	0	19.28			21.00	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	21.42	21.56	21.13	23.00	0
		1	12	21.47	21.25	21.43	23.00	0
		1	24	21.33	21.27	21.26	23.00	0
		12	0	20.32	20.21	20.20	22.00	1
		12	6	20.13	20.41	20.16	22.00	1
		12	13	20.50	20.59	20.23	22.00	1
		25	0	20.24	20.34	20.38	22.00	1
5	16-QAM	1	0	20.32	20.53	20.12	22.00	1
		1	12	20.40	20.56	20.04	22.00	1
		1	24	20.29	20.49	20.10	22.00	1
		12	0	19.37	19.25	19.12	21.00	2
		12	6	19.40	19.33	19.27	21.00	2
		12	13	19.15	19.44	19.16	21.00	2
		25	0	19.28	19.39	19.34	21.00	2

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6 SUMMARY OF RESULTS

6.1 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.

6.2 Summary of SAR Results

WWAN

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 2	20MHz	QPSK	1	0	Front Surface	5	18700	1860	21.00	19.74	133.66%	0.564	0.754	-
LTE Band 2			50	25	Front Surface	5	18700	1860	20.00	18.59	138.36%	0.512	0.708	-
LTE Band 2			100RB		Front Surface	5	19100	1900	20.00	18.52	140.60%	0.525	0.738	-
LTE Band 2			1	0	Back Surface	5	18700	1860	21.00	19.74	133.66%	1.060	1.417	001
LTE Band 2			1	0	Back Surface	5	18900	1880	21.00	19.67	135.83%	1.030	1.399	-
LTE Band 2			1	0	Back Surface	5	19100	1900	21.00	19.66	136.14%	0.972	1.323	-
LTE Band 2			50	25	Back Surface	5	18700	1860	20.00	18.59	138.36%	0.934	1.292	-
LTE Band 2			50	0	Back Surface	5	18900	1860	20.00	18.53	140.28%	0.903	1.267	-
LTE Band 2			50	25	Back Surface	5	19100	1860	20.00	18.58	138.68%	0.921	1.277	-
LTE Band 2			100RB		Back Surface	5	19100	1900	20.00	18.52	140.60%	0.911	1.281	-
LTE Band 2			1	0	Top Edge	5	18700	1860	21.00	19.74	133.66%	0.966	1.291	-
LTE Band 2			1	0	Top Edge	5	18900	1880	21.00	19.67	135.83%	0.919	1.248	-
LTE Band 2			1	0	Top Edge	5	19100	1900	21.00	19.66	136.14%	0.908	1.236	-
LTE Band 2			50	25	Top Edge	5	18700	1860	20.00	18.59	138.36%	0.812	1.123	-
LTE Band 2			50	0	Top Edge	5	18900	1860	20.00	18.53	140.28%	0.827	1.160	-
LTE Band 2			50	25	Top Edge	5	19100	1860	20.00	18.58	138.68%	0.813	1.127	-
LTE Band 2			100RB		Top Edge	5	19100	1900	20.00	18.52	140.60%	0.833	1.171	-
LTE Band 2			1	0	Bottom Edge	5	18700	1860	21.00	19.74	133.66%	0.021	0.028	-
LTE Band 2			50	25	Bottom Edge	5	18700	1860	20.00	18.59	138.36%	0.017	0.024	-
LTE Band 2			100RB		Bottom Edge	5	19100	1900	20.00	18.52	140.60%	0.018	0.025	-
LTE Band 2			1	0	Right Edge	5	18700	1860	21.00	19.74	133.66%	0.845	1.129	-
LTE Band 2			1	0	Right Edge	5	18900	1880	21.00	19.67	135.83%	0.849	1.153	-
LTE Band 2			1	0	Right Edge	5	19100	1900	21.00	19.66	136.14%	0.826	1.125	-
LTE Band 2			50	25	Right Edge	5	18700	1860	20.00	18.59	138.36%	0.755	1.045	-
LTE Band 2			50	0	Right Edge	5	18900	1860	20.00	18.53	140.28%	0.716	1.004	-
LTE Band 2			50	25	Right Edge	5	19100	1860	20.00	18.58	138.68%	0.737	1.022	-
LTE Band 2			100RB		Right Edge	5	19100	1900	20.00	18.52	140.60%	0.728	1.024	-
LTE Band 2			1	0	Left Edge	5	18700	1860	21.00	19.74	133.66%	0.056	0.075	-
LTE Band 2			50	25	Left Edge	5	18700	1860	20.00	18.59	138.36%	0.050	0.069	-
LTE Band 2			100RB		Left Edge	5	19100	1900	20.00	18.52	140.60%	0.052	0.073	-
LTE Band 4	20MHz	QPSK	1	0	Front Surface	5	20050	1720	23.00	21.84	130.62%	0.577	0.754	-
LTE Band 4			1	0	Front Surface	5	20175	1732.5	23.00	22.13	122.18%	0.612	0.748	-
LTE Band 4			1	0	Front Surface	5	20300	1745	23.00	21.91	128.53%	0.598	0.769	-
LTE Band 4			50	0	Front Surface	5	20175	1732.5	22.00	20.79	132.13%	0.546	0.721	-
LTE Band 4			100RB		Front Surface	5	20050	1720	22.00	20.80	131.83%	0.511	0.674	-
LTE Band 4			1	0	Back Surface	5	20050	1720	23.00	21.84	130.62%	1.090	1.424	-
LTE Band 4			1	0	Back Surface	5	20175	1732.5	23.00	22.13	122.18%	1.180	1.442	002
LTE Band 4			1	0	Back Surface	5	20300	1745	23.00	21.91	128.53%	1.060	1.362	-
LTE Band 4			50	50	Back Surface	5	20050	1720	22.00	20.76	133.05%	0.970	1.291	-
LTE Band 4			50	0	Back Surface	5	20175	1732.5	22.00	20.79	132.13%	1.020	1.348	-
LTE Band 4			50	0	Back Surface	5	20300	1745	22.00	20.74	133.66%	0.971	1.298	-
LTE Band 4			100RB		Back Surface	5	20050	1720	22.00	20.80	131.83%	0.987	1.301	-
LTE Band 4			1	0	Top Edge	5	20050	1720	23.00	21.84	130.62%	1.050	1.371	-
LTE Band 4			1	0	Top Edge	5	20175	1732.5	23.00	22.13	122.18%	1.080	1.320	-
LTE Band 4			1	0	Top Edge	5	20300	1745	23.00	21.91	128.53%	1.010	1.298	-
LTE Band 4			50	50	Top Edge	5	20050	1720	22.00	20.76	133.05%	0.941	1.252	-
LTE Band 4			50	0	Top Edge	5	20175	1732.5	22.00	20.79	132.13%	0.928	1.226	-
LTE Band 4			50	0	Top Edge	5	20300	1745	22.00	20.74	133.66%	0.922	1.232	-
LTE Band 4			100RB		Top Edge	5	20050	1720	22.00	20.80	131.83%	0.918	1.210	-
LTE Band 4			1	0	Bottom Edge	5	20175	1732.5	23.00	22.13	122.18%	0.026	0.032	-
LTE Band 4			50	0	Bottom Edge	5	20175	1732.5	22.00	20.79	132.13%	0.022	0.029	-
LTE Band 4			100RB		Bottom Edge	5	20050	1720	22.00	20.80	131.83%	0.020	0.026	-
LTE Band 4			1	0	Right Edge	5	20050	1720	23.00	21.84	130.62%	0.858	1.121	-
LTE Band 4			1	0	Right Edge	5	20175	1732.5	23.00	22.13	122.18%	0.885	1.081	-
LTE Band 4			1	0	Right Edge	5	20300	1745	23.00	21.91	128.53%	0.865	1.112	-
LTE Band 4			50	50	Right Edge	5	20050	1720	22.00	20.76	133.05%	0.789	1.050	-
LTE Band 4			50	0	Right Edge	5	20175	1732.5	22.00	20.79	132.13%	0.778	1.028	-
LTE Band 4			50	0	Right Edge	5	20300	1745	22.00	20.74	133.66%	0.757	1.012	-
LTE Band 4			100RB		Right Edge	5	20050	1720	22.00	20.80	131.83%	0.771	1.016	-
LTE Band 4			1	0	Left Edge	5	20175	1732.5	23.00	22.13	122.18%	0.065	0.079	-
LTE Band 4			50	0	Left Edge	5	20175	1732.5	22.00	20.79	132.13%	0.054	0.071	-
LTE Band 4			100RB		Left Edge	5	20050	1720	22.00	20.80	131.83%	0.054	0.071	-

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LTE Band 5	10MHz	QPSK	1	0	Front Surface	5	20450	829	23.00	22.51	111.94%	0.156	0.175	-
LTE Band 5			25	25	Front Surface	5	20450	829	22.00	21.42	114.29%	0.127	0.145	-
LTE Band 5			50RB		Front Surface	5	20450	829	22.00	21.21	119.95%	0.134	0.161	-
LTE Band 5			1	0	Back Surface	5	20450	829	23.00	22.51	111.94%	0.274	0.307	003
LTE Band 5			25	25	Back Surface	5	20450	829	22.00	21.42	114.29%	0.234	0.267	-
LTE Band 5			50RB		Back Surface	5	20450	829	22.00	21.21	119.95%	0.229	0.275	-
LTE Band 5			1	0	Top Edge	5	20450	829	23.00	22.51	111.94%	0.195	0.218	-
LTE Band 5			25	25	Top Edge	5	20450	829	22.00	21.42	114.29%	0.173	0.198	-
LTE Band 5			50RB		Top Edge	5	20450	829	22.00	21.21	119.95%	0.171	0.205	-
LTE Band 5			1	0	Bottom Edge	5	20450	829	23.00	22.51	111.94%	0.012	0.013	-
LTE Band 5			25	25	Bottom Edge	5	20450	829	22.00	21.42	114.29%	0.010	0.011	-
LTE Band 5			50RB		Bottom Edge	5	20450	829	22.00	21.21	119.95%	0.011	0.013	-
LTE Band 5			1	0	Right Edge	5	20450	829	23.00	22.51	111.94%	0.175	0.196	-
LTE Band 5			25	25	Right Edge	5	20450	829	22.00	21.42	114.29%	0.144	0.165	-
LTE Band 5			50RB		Right Edge	5	20450	829	22.00	21.21	119.95%	0.137	0.164	-
LTE Band 5			1	0	Left Edge	5	20450	829	23.00	22.51	111.94%	0.065	0.073	-
LTE Band 5			25	25	Left Edge	5	20450	829	22.00	21.42	114.29%	0.053	0.061	-
LTE Band 5			50RB		Left Edge	5	20450	829	22.00	21.21	119.95%	0.055	0.066	-
LTE Band 12	10MHz	QPSK	1	0	Front Surface	5	23060	704	23.00	21.87	129.72%	0.068	0.088	-
LTE Band 12			25	25	Front Surface	5	23130	711	22.00	20.57	139.00%	0.055	0.076	-
LTE Band 12			50RB		Front Surface	5	23130	711	22.00	20.46	142.56%	0.050	0.071	-
LTE Band 12			1	0	Back Surface	5	23060	704	23.00	21.87	129.72%	0.098	0.127	004
LTE Band 12			25	25	Back Surface	5	23130	711	22.00	20.57	139.00%	0.088	0.122	-
LTE Band 12			50RB		Back Surface	5	23130	711	22.00	20.46	142.56%	0.086	0.123	-
LTE Band 12			1	0	Top Edge	5	23060	704	23.00	21.87	129.72%	0.092	0.119	-
LTE Band 12			25	25	Top Edge	5	23130	711	22.00	20.57	139.00%	0.076	0.106	-
LTE Band 12			50RB		Top Edge	5	23130	711	22.00	20.46	142.56%	0.071	0.101	-
LTE Band 12			1	0	Bottom Edge	5	23060	704	23.00	21.87	129.72%	0.007	0.009	-
LTE Band 12			25	25	Bottom Edge	5	23130	711	22.00	20.57	139.00%	0.006	0.008	-
LTE Band 12			50RB		Bottom Edge	5	23130	711	22.00	20.46	142.56%	0.005	0.008	-
LTE Band 12			1	0	Right Edge	5	23060	704	23.00	21.87	129.72%	0.081	0.105	-
LTE Band 12			25	25	Right Edge	5	23130	711	22.00	20.57	139.00%	0.067	0.093	-
LTE Band 12			50RB		Right Edge	5	23130	711	22.00	20.46	142.56%	0.068	0.097	-
LTE Band 12			1	0	Left Edge	5	23060	704	23.00	21.87	129.72%	0.023	0.030	-
LTE Band 12			25	25	Left Edge	5	23130	711	22.00	20.57	139.00%	0.020	0.028	-
LTE Band 12			50RB		Left Edge	5	23130	711	22.00	20.46	142.56%	0.017	0.024	-
LTE Band 13	10MHz	QPSK	1	0	Front Surface	5	23230	782	23.00	21.66	136.14%	0.094	0.128	-
LTE Band 13			25	25	Front Surface	5	23230	782	22.00	20.34	146.55%	0.082	0.120	-
LTE Band 13			50RB		Front Surface	5	23230	782	22.00	20.40	144.54%	0.084	0.121	-
LTE Band 13			1	0	Back Surface	5	23230	782	23.00	21.66	136.14%	0.160	0.218	005
LTE Band 13			25	25	Back Surface	5	23230	782	22.00	20.34	146.55%	0.136	0.199	-
LTE Band 13			50RB		Back Surface	5	23230	782	22.00	20.40	144.54%	0.141	0.204	-
LTE Band 13			1	0	Top Edge	5	23230	782	23.00	21.66	136.14%	0.125	0.170	-
LTE Band 13			25	25	Top Edge	5	23230	782	22.00	20.34	146.55%	0.116	0.170	-
LTE Band 13			50RB		Top Edge	5	23230	782	22.00	20.40	144.54%	0.114	0.165	-
LTE Band 13			1	0	Bottom Edge	5	23230	782	23.00	21.66	136.14%	0.012	0.016	-
LTE Band 13			25	25	Bottom Edge	5	23230	782	22.00	20.34	146.55%	0.009	0.013	-
LTE Band 13			50RB		Bottom Edge	5	23230	782	22.00	20.40	144.54%	0.008	0.012	-
LTE Band 13			1	0	Right Edge	5	23230	782	23.00	21.66	136.14%	0.115	0.157	-
LTE Band 13			25	25	Right Edge	5	23230	782	22.00	20.34	146.55%	0.102	0.149	-
LTE Band 13			50RB		Right Edge	5	23230	782	22.00	20.40	144.54%	0.099	0.143	-
LTE Band 13			1	0	Left Edge	5	23230	782	23.00	21.66	136.14%	0.050	0.068	-
LTE Band 13			25	25	Left Edge	5	23230	782	22.00	20.34	146.55%	0.037	0.054	-
LTE Band 13			50RB		Left Edge	5	23230	782	22.00	20.40	144.54%	0.037	0.053	-

Note:

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

6.3 Reporting statements of conformity

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

6.4 Conclusion

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

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7 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/15/2024	Feb/14/2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Oct/07/2024	Oct/06/2025
SPEAG	System Validation Dipole	D750V3	1015	Sep/27/2024	Sep/26/2025
SPEAG	System Validation Dipole	D835V2	4d063	Sep/16/2024	Sep/15/2025
SPEAG	System Validation Dipole	D1750V2	1008	Sep/27/2024	Sep/26/2025
SPEAG	System Validation Dipole	D1900V2	5d056	Aug/19/2024	Aug/18/2025
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/21/2024	Feb/20/2025
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025
Agilent	Dual-directional coupler	778D	MY52180302	Nov/06/2024	Nov/05/2025
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Feb/27/2024	Feb/26/2025
R&S	Power Meter	NRX	102191	Feb/27/2024	Feb/26/2025
R&S	Power Sensor	NRP18S	109065	Aug/28/2024	Aug/27/2025
SPEAG	Software	DASY 52 V52.10.4.152 7	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	Aug/29/2024	Aug/28/2025
LKM	Digital thermometer	DTM3000	EC14010603	Nov/11/2024	Nov/10/2025
TECEP	Digital thermometer	DTM-303A	TP131515	May/23/2024	May/22/2025

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8 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%	∞
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	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 Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
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.)	2.54%	N	1	1	0.64	0.43	1.63%	1.09%	M
Liquid Conductivity (mea.)	3.50%	N	1	1	0.6	0.49	2.10%	1.72%	M
Combined standard uncertainty		RSS					11.72%	11.59%	
Expant uncertainty (95% confidence interval), K=2							23.44%	23.18%	

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9 SAR MEASUREMENT RESULTS

Date: 2024/11/23

ID: 001

Report No. :TESA2410000696ES

LTE Band 2 (20MHz)_Body_Back Surface_CH 18700_QPSK_1-0_5mm

Communication System: LTE; Frequency: 1860 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 40.993$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.34, 7.64, 7.97) @ 1860 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.43 W/kg

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

Reference Value = 34.38 V/m; Power Drift = -0.16 dB

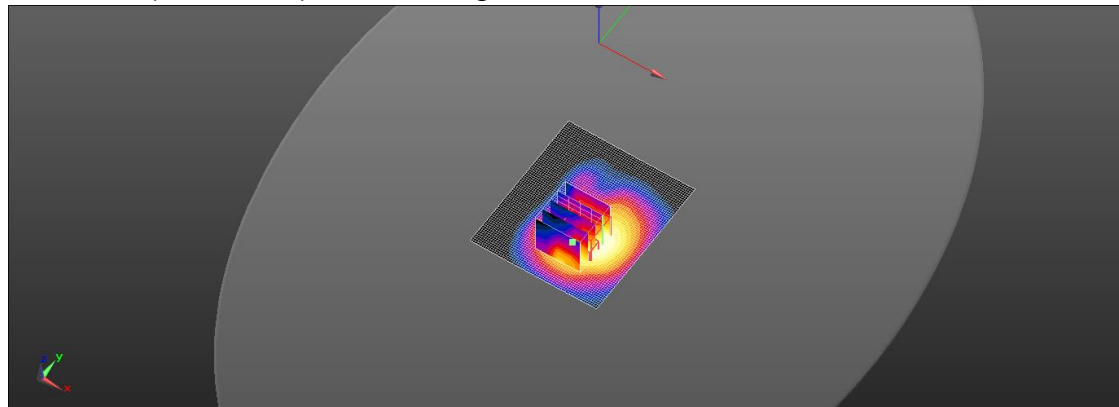
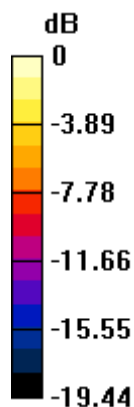
Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.559 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 62.9%

Maximum value of SAR (measured) = 1.78 W/kg



0 dB = 1.78 W/kg = 2.50 dBW/kg

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Date: 2024/11/23

ID: 002

Report No. :TESA2410000696ES

LTE Band 4 (20MHz)_Body_Back Surface_CH 20175_QPSK_1-0_5mm

Communication System: LTE; Frequency: 1732.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1732.5$ MHz; $\sigma = 1.401$ S/m; $\epsilon_r = 41.097$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.55, 7.83, 8.17) @ 1732.5 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.04 W/kg

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

Reference Value = 18.94 V/m; Power Drift = -0.19 dB

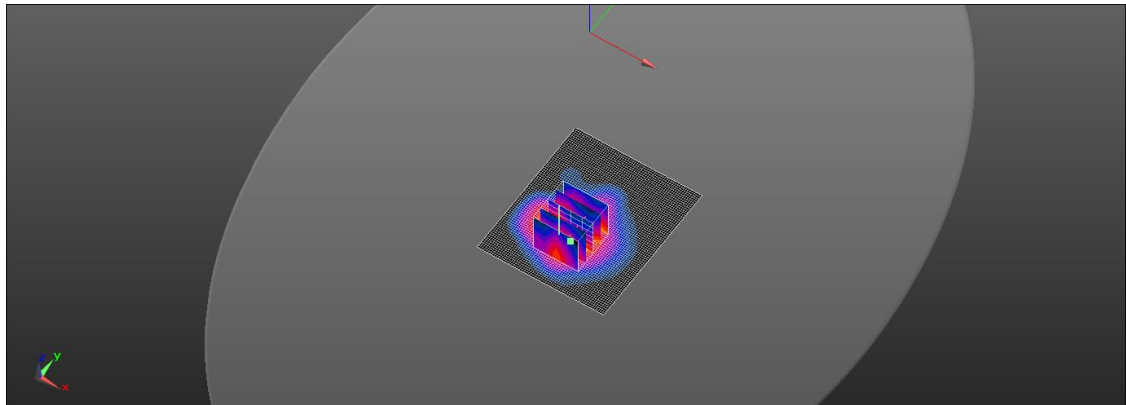
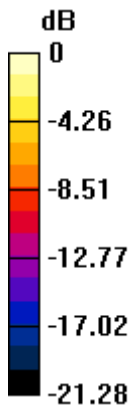
Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.469 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 2.29 W/kg



0 dB = 2.29 W/kg = 3.59 dBW/kg

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Date: 2024/11/22

ID: 003

Report No. :TESA2410000696ES

LTE Band 5 (10MHz)_Body_Back Surface_CH 20450_QPSK_1-0_5mm

Communication System: LTE; Frequency: 829 MHz; Duty cycle= 1:1

Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 42.566$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.99, 9.15, 9.55) @ 829 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x71x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.372 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.08 V/m; Power Drift = 0.18 dB

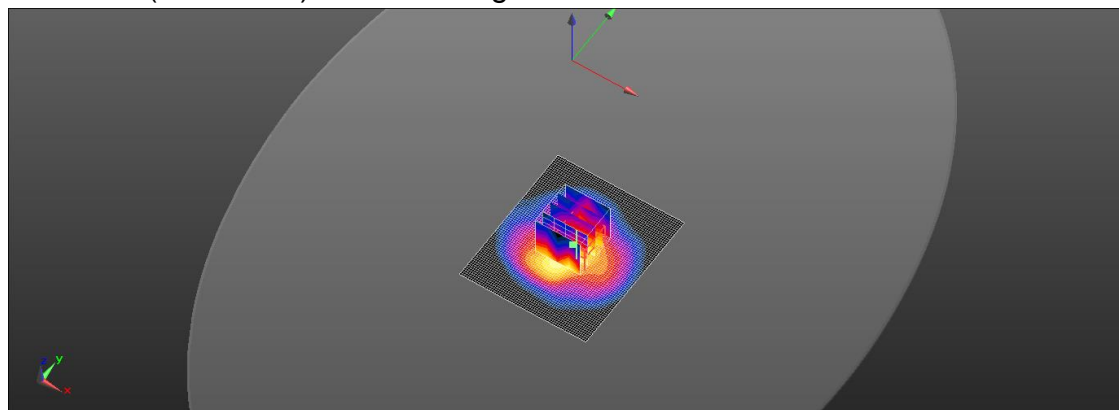
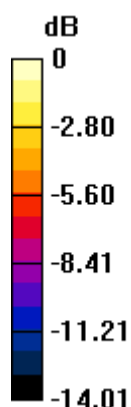
Peak SAR (extrapolated) = 0.445 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.154 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 66%

Maximum value of SAR (measured) = 0.362 W/kg



0 dB = 0.362 W/kg = -4.42 dBW/kg

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ID: 004

Report No. :TESA2410000696ES

LTE Band 12 (10MHz)_Body_Back Surface_CH 23060_QPSK_1-0_5mm

Communication System: LTE; Frequency: 704 MHz; Duty cycle= 1:1

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.887 \text{ S/m}$; $\epsilon_r = 43.173$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.49, 9.6, 10.03) @ 704 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x71x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.125 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.07 V/m; Power Drift = -0.09 dB

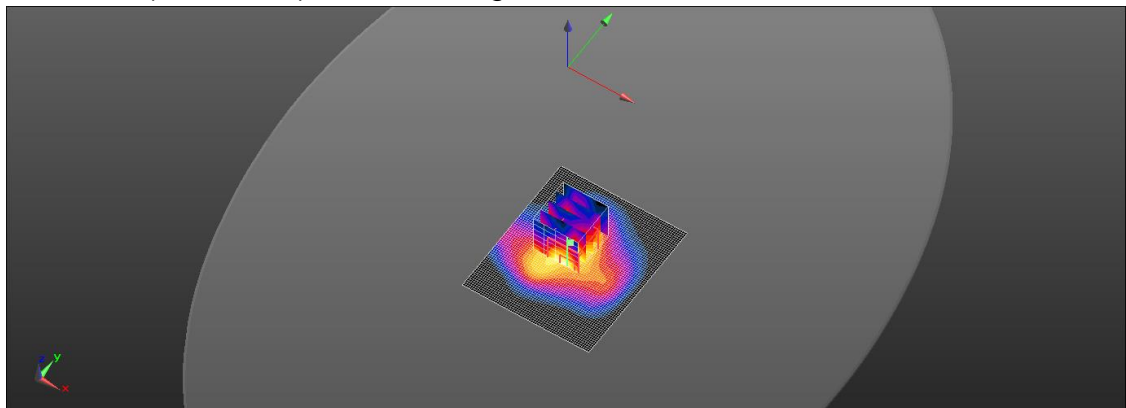
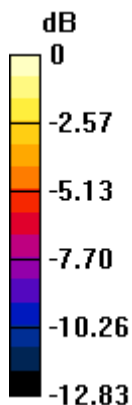
Peak SAR (extrapolated) = 0.197 W/kg

SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 71.5%

Maximum value of SAR (measured) = 0.135 W/kg



0 dB = 0.135 W/kg = -8.68 dBW/kg

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ID: 005

Report No. :TESA2410000696ES

LTE Band 13 (10MHz)_Body_Back Surface_CH 23230_QPSK_1-0_5mm

Communication System: LTE; Frequency: 782 MHz; Duty cycle= 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.906 \text{ S/m}$; $\epsilon_r = 42.767$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.49, 9.6, 10.03) @ 782 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x71x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.170 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.11 V/m; Power Drift = -0.07 dB

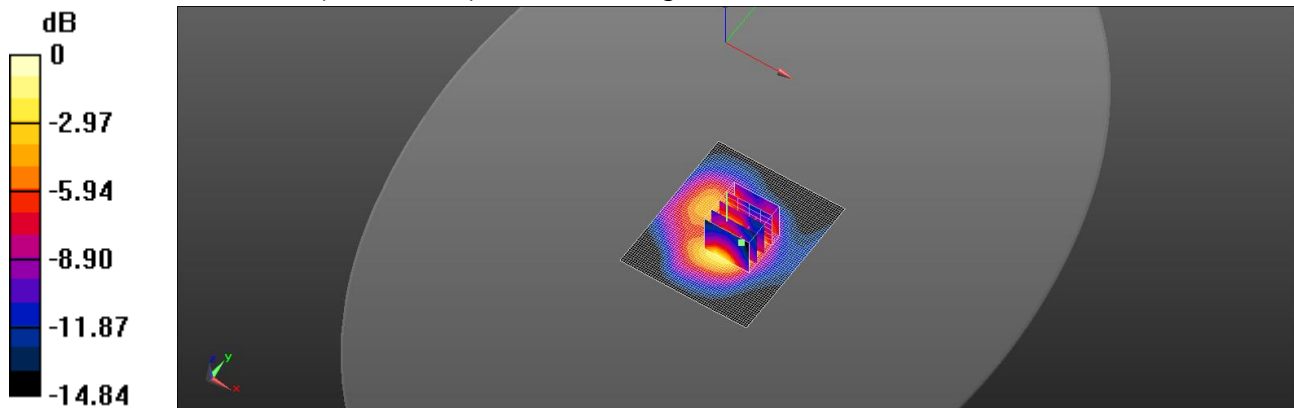
Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.087 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 71.3%

Maximum value of SAR (measured) = 0.197 W/kg



0 dB = 0.197 W/kg = -7.07 dBW/kg

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10 SAR SYSTEM CHECK RESULTS

Date: 2024/11/22

Report No. :TESA2410000696ES

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 42.921$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.49, 9.6, 10.03) @ 750 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x161x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.54 W/kg

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

Reference Value = 57.89 V/m; Power Drift = -0.03 dB

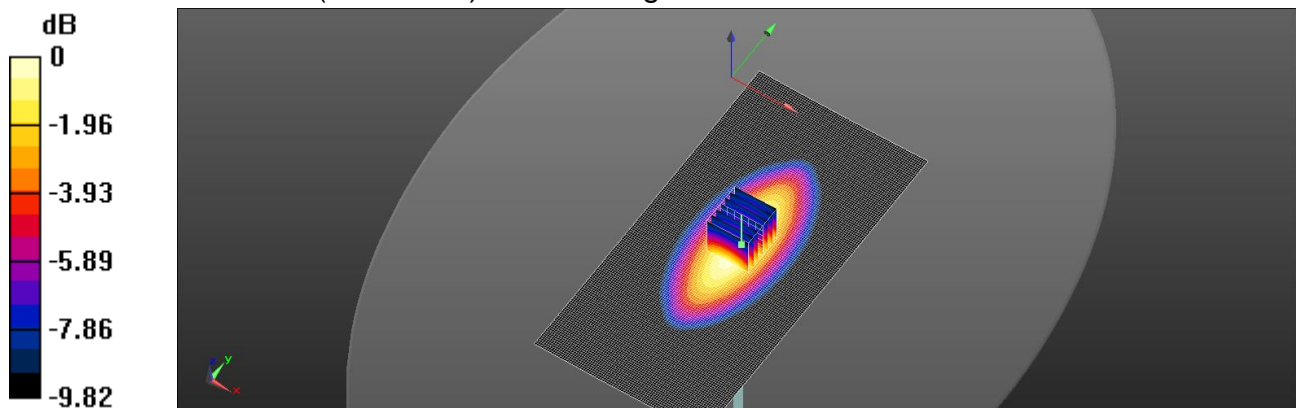
Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.4 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 69.2%

Maximum value of SAR (measured) = 2.52 W/kg



0 dB = 2.52 W/kg = 4.02 dBW/kg

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Date: 2024/11/22

Report No. :TESA2410000696ES

Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 42.554$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.99, 9.15, 9.55) @ 835 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x131x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 2.95 W/kg

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

Reference Value = 57.61 V/m; Power Drift = 0.01 dB

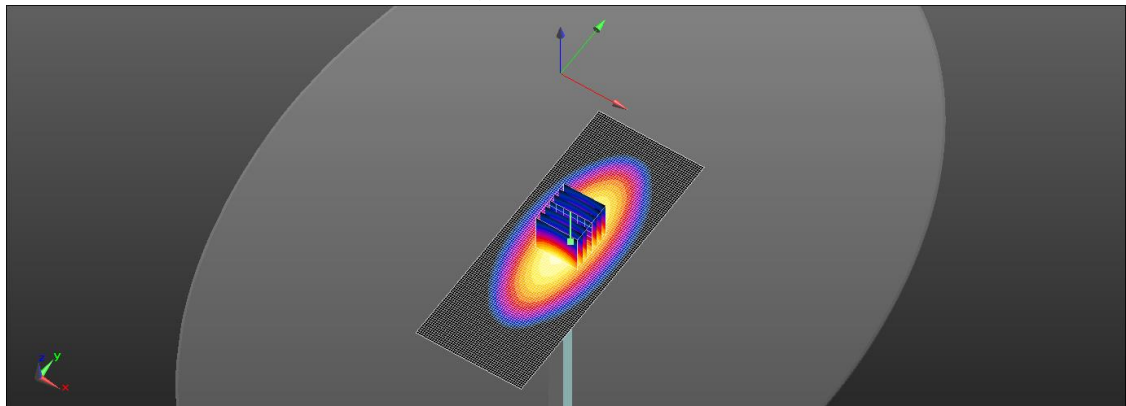
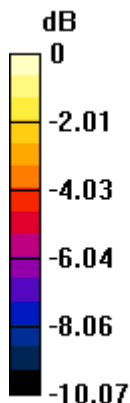
Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.59 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.4%

Maximum value of SAR (measured) = 3.01 W/kg



0 dB = 3.01 W/kg = 4.78 dBW/kg

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Date: 2024/11/23

Report No. :TESA2410000696ES**Dipole 1750 MHz_SN:1008**

Communication System: CW; Frequency: 1750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.408$ S/m; $\epsilon_r = 41.065$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.55, 7.83, 8.17) @ 1750 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.0 W/kg

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

Reference Value = 95.37 V/m; Power Drift = 0.03 dB

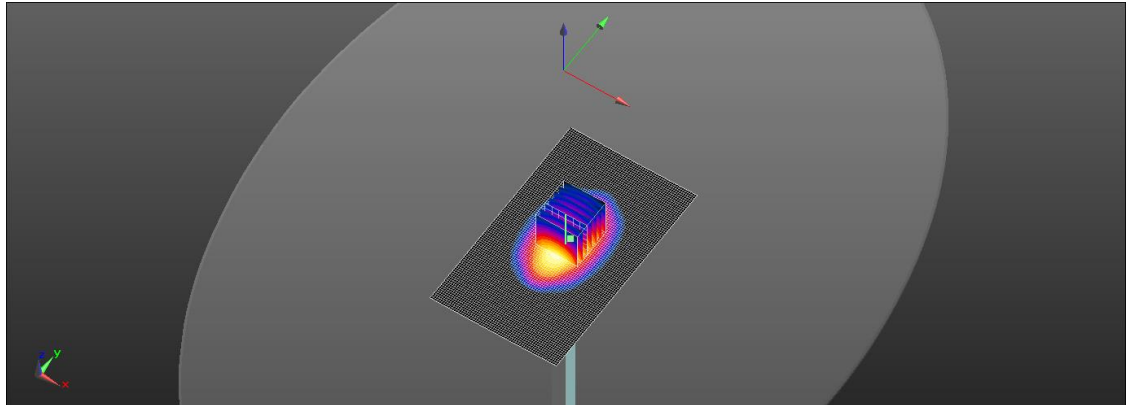
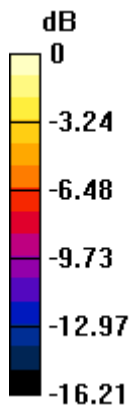
Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 8.87 W/kg; SAR(10 g) = 4.81 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

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Date: 2024/11/23

Report No. :TESA2410000696ES**Dipole 1900 MHz_SN:5d056**

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.449$ S/m; $\epsilon_r = 40.976$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.34, 7.64, 7.97) @ 1900 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.1 W/kg

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

Reference Value = 97.40 V/m; Power Drift = -0.01 dB

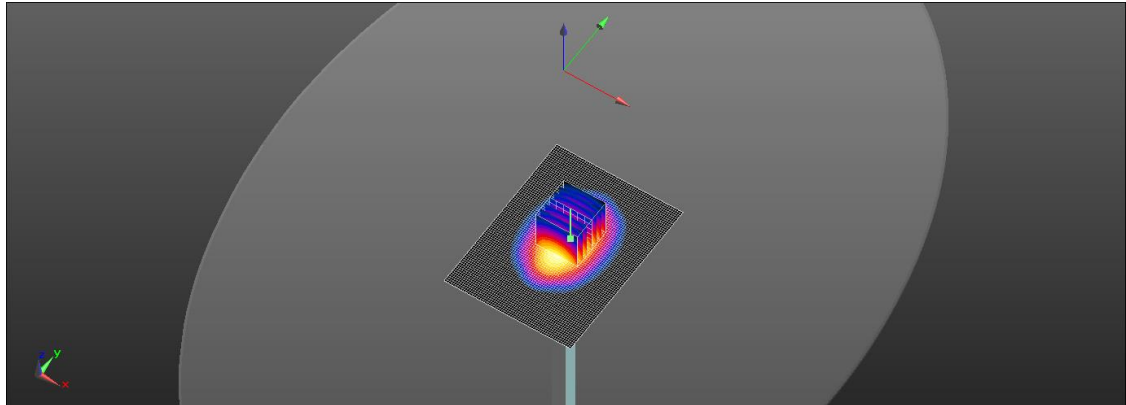
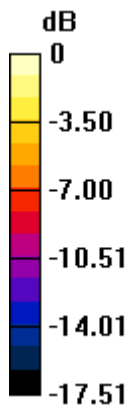
Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 9.35 W/kg; SAR(10 g) = 4.9 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg = 11.25 dBW/kg

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11 APPENDIXES

Refer to separated files for the following appendixes.

11.1 SAR_Appendix A Photographs

11.2 SAR_Appendix B DAE & Probe Cal. Certificate

11.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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