

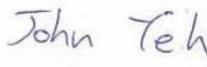
RF Exposure report



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

Product Name	Mobile Router
Brand Name	NEC Platforms Ltd.
Host Model No.	KMP8S3AD1-1A
Applicant	NEC Platforms,Ltd.
	Daini Tamachi Bldg., 14-1 Shiba 4-chome, Minato City, Tokyo 108-0014, Japan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	2AA5WKMP8S3AD
Date of EUT Receipt	Jun. 02, 2025
Date of Test(s)	Jun. 16, 2025 ~ Jun. 20, 2025
Date of Issue	Aug. 28, 2025

Approved By /


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

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.
2. Except for the modification of the unit in Section 1.3 (Maximum Value), all data presented in this report are derived from Report No. TESA2506000467ES.
3. Please be noted that the report TESA2508000640ES will replace the previous TESA2506000467ES as the new version. Also be pay attention that TESA2506000467ES is ineffective anymore from now on.

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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

KDB941225D06v02r01

KDB941225D01v03r01

KDB941225D05v02r05

KDB248227D01v02r02

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1.2 Description of EUT

Product Name	Mobile Router	
Brand Name	NEC Platforms Ltd.	
Host Model No.	KMP8S3AD1-1A	
Duty Cycle	WCDMA	1
	LTE FDD	1
	LTE TDD	0.633
	WLAN 802.11	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	WCDMA Band II	1850-1910
	WCDMA Band IV	1710-1755
	WCDMA Band V	824-849
	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 TDD Band 41	2496-2690
	802.11 b/g/n/ax	2.4GHz (2412 – 2462 MHz)

1.3 Maximum value

Max. Simultaneous transmission SAR (1g) (Unit: W/kg)		
Scenaios	sum	Position
WWAN + 2.4GHz WLAN 0 + 2.4GHz WLAN 1	1.59	Front Surface

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1.4 Antenna Information

WWAN

ANT1

Antenna	ANT1		
Frequency(MHz)	12	5	
	699~716	824~849	
Peak Gain (dBi)	-2.80	-1.50	

Note: Antenna information is provided by the applicant.

ANT2

Antenna	ANT2		
Frequency(MHz)	12	5	
	699~716	824~849	
Peak Gain (dBi)	-6.60	-2.00	

Note: Antenna information is provided by the applicant.

ANT3

Antenna	ANT3		
Frequency(MHz)	4	2	41
	1710~1755	1850~1910	2496~2690
Peak Gain (dBi)	2.40	2.00	2.20

Note: Antenna information is provided by the applicant.

WLAN

Antenna	WLAN 0
Frequency(MHz)	2400~2484
Peak Gain (dBi)	-1.30
Antenna	WLAN 1
Frequency(MHz)	2400~2484
Peak Gain (dBi)	0.20

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	Test Engineer	PM	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	Ryan Li	Ruby Ou			
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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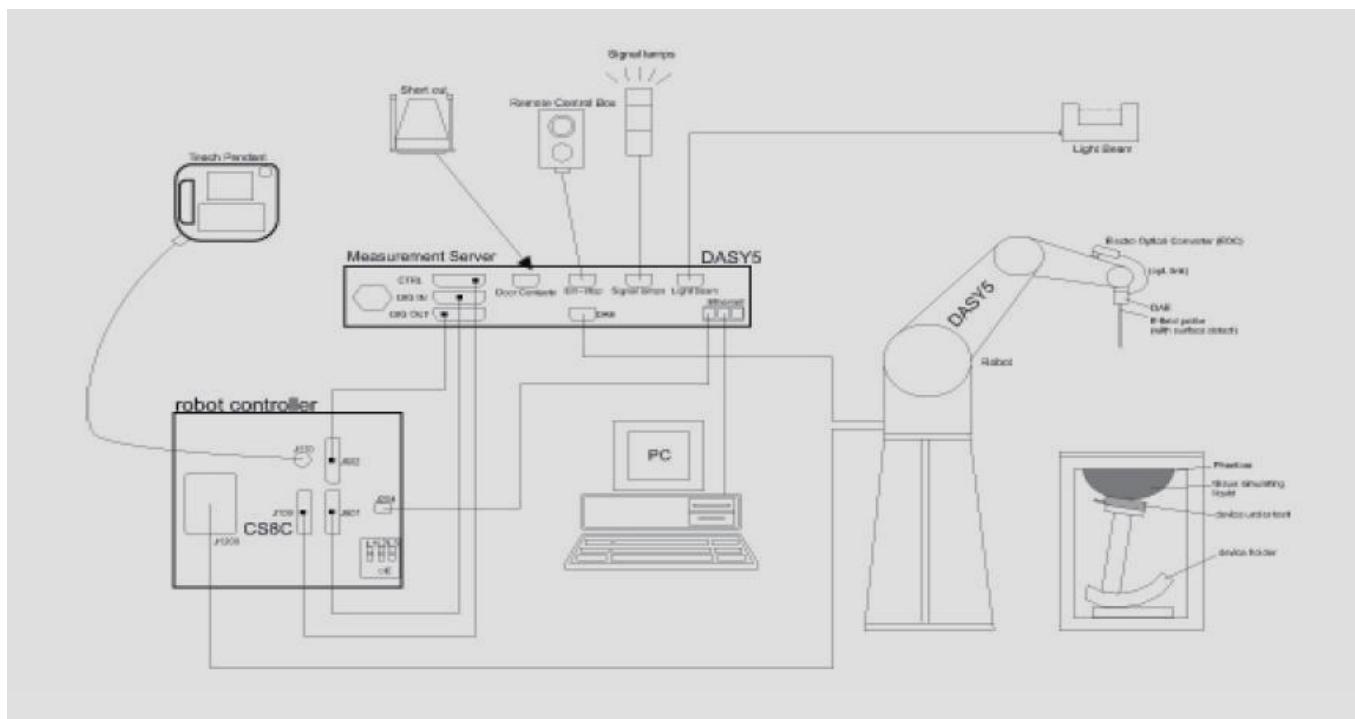
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2.2 SAR System

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 $SAR = \sigma (|Ei|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.



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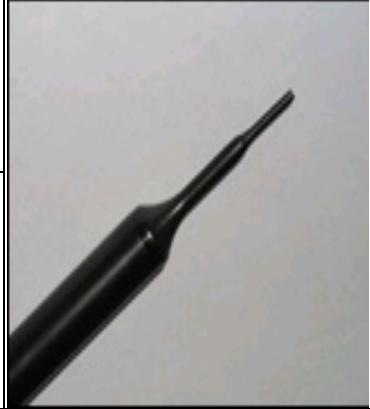
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EX3DV4 E-Field Probe

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 750/835/1750/2000/2450/2600 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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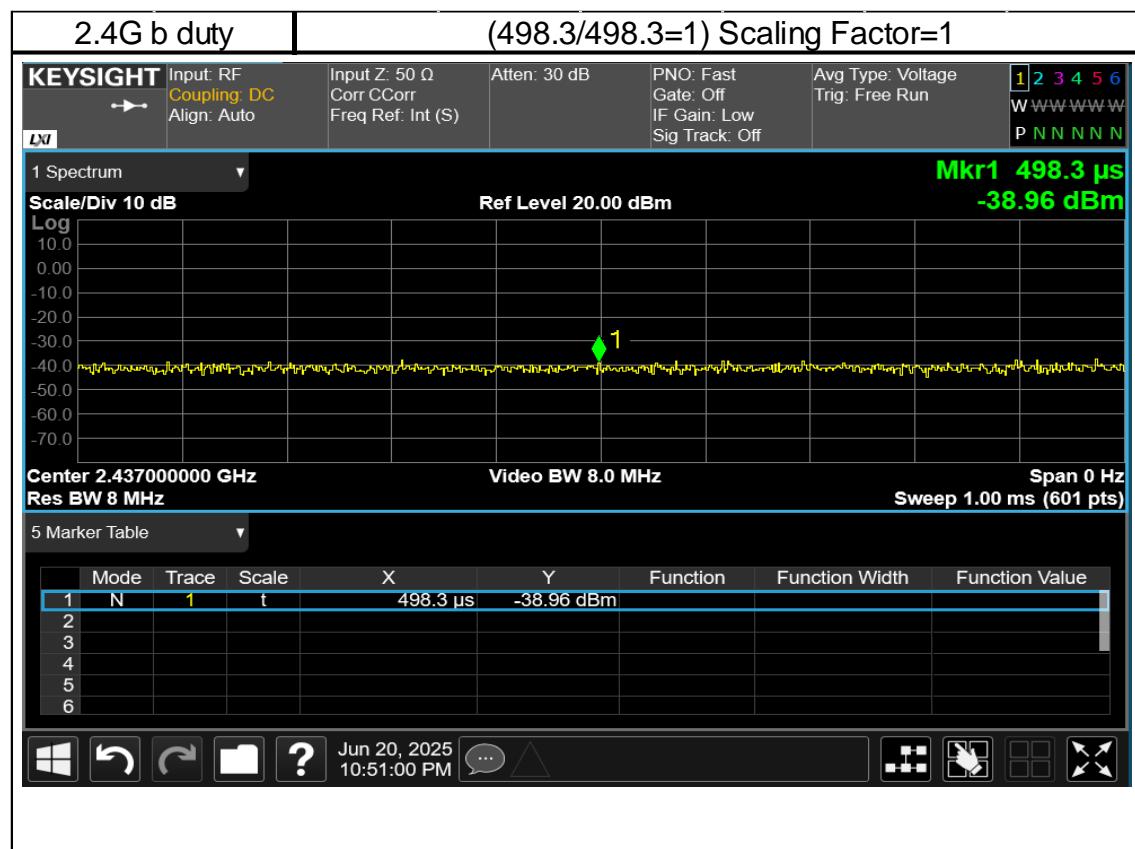
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3 DUTY CYCLE



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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 reference po 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.

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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
704	42.145	0.887	41.306	0.873	-1.99%	-1.57%	$\pm 5\%$	Jun. 17, 2025
707.5	42.127	0.887	41.299	0.876	-1.96%	-1.26%	$\pm 5\%$	
711	42.108	0.887	41.144	0.877	-2.29%	-1.17%	$\pm 5\%$	
750	41.900	0.890	41.051	0.879	-2.03%	-1.24%	$\pm 5\%$	
826.4	41.540	0.899	40.936	0.884	-1.46%	-1.67%	$\pm 5\%$	
829	41.528	0.899	40.933	0.887	-1.43%	-1.37%	$\pm 5\%$	
835	41.500	0.900	40.928	0.889	-1.38%	-1.22%	$\pm 5\%$	
836.5	41.500	0.902	40.905	0.890	-1.43%	-1.29%	$\pm 5\%$	
836.6	41.500	0.902	40.849	0.892	-1.57%	-1.08%	$\pm 5\%$	
844	41.500	0.910	40.820	0.897	-1.64%	-1.40%	$\pm 5\%$	
846.6	41.500	0.912	40.741	0.899	-1.83%	-1.48%	$\pm 5\%$	
1712.4	40.134	1.349	39.643	1.335	-1.22%	-1.07%	$\pm 5\%$	Jun. 18, 2025
1720	40.127	1.354	39.620	1.338	-1.26%	-1.16%	$\pm 5\%$	
1732.4	40.097	1.360	39.593	1.343	-1.26%	-1.28%	$\pm 5\%$	
1732.5	40.116	1.360	39.492	1.344	-1.56%	-1.21%	$\pm 5\%$	
1745	40.105	1.367	39.465	1.352	-1.59%	-1.12%	$\pm 5\%$	
1750	40.100	1.370	39.430	1.355	-1.67%	-1.09%	$\pm 5\%$	
1752.6	40.095	1.372	39.403	1.356	-1.73%	-1.13%	$\pm 5\%$	
1852.4	40.000	1.400	39.347	1.379	-1.63%	-1.50%	$\pm 5\%$	
1860	40.000	1.400	39.306	1.381	-1.74%	-1.36%	$\pm 5\%$	
1880	40.000	1.400	39.297	1.382	-1.76%	-1.29%	$\pm 5\%$	
1900	40.000	1.400	39.252	1.385	-1.87%	-1.07%	$\pm 5\%$	Jun. 19, 2025
1907.6	40.000	1.400	38.874	1.386	-2.81%	-1.00%	$\pm 5\%$	
2412	39.276	1.767	38.667	1.753	-1.55%	-0.80%	$\pm 5\%$	
2417	39.266	1.771	38.599	1.755	-1.70%	-0.93%	$\pm 5\%$	
2437	39.226	1.789	38.551	1.773	-1.72%	-0.88%	$\pm 5\%$	
2450	39.200	1.800	38.379	1.785	-2.09%	-0.83%	$\pm 5\%$	
2457	39.191	1.807	38.373	1.791	-2.09%	-0.91%	$\pm 5\%$	
2462	39.184	1.813	38.332	1.796	-2.17%	-0.93%	$\pm 5\%$	
2506	39.125	1.860	38.238	1.842	-2.27%	-0.95%	$\pm 5\%$	
2549.5	39.067	1.906	38.228	1.889	-2.15%	-0.90%	$\pm 5\%$	Jun. 20, 2025
2593	39.009	1.953	38.147	1.935	-2.21%	-0.90%	$\pm 5\%$	
2600	39.000	1.960	38.132	1.942	-2.23%	-0.92%	$\pm 5\%$	
2636.5	38.954	2.000	38.130	1.982	-2.12%	-0.91%	$\pm 5\%$	
2680	38.900	2.048	38.022	2.030	-2.26%	-0.88%	$\pm 5\%$	

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4.4 The composition of the tissue simulating liquid:

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

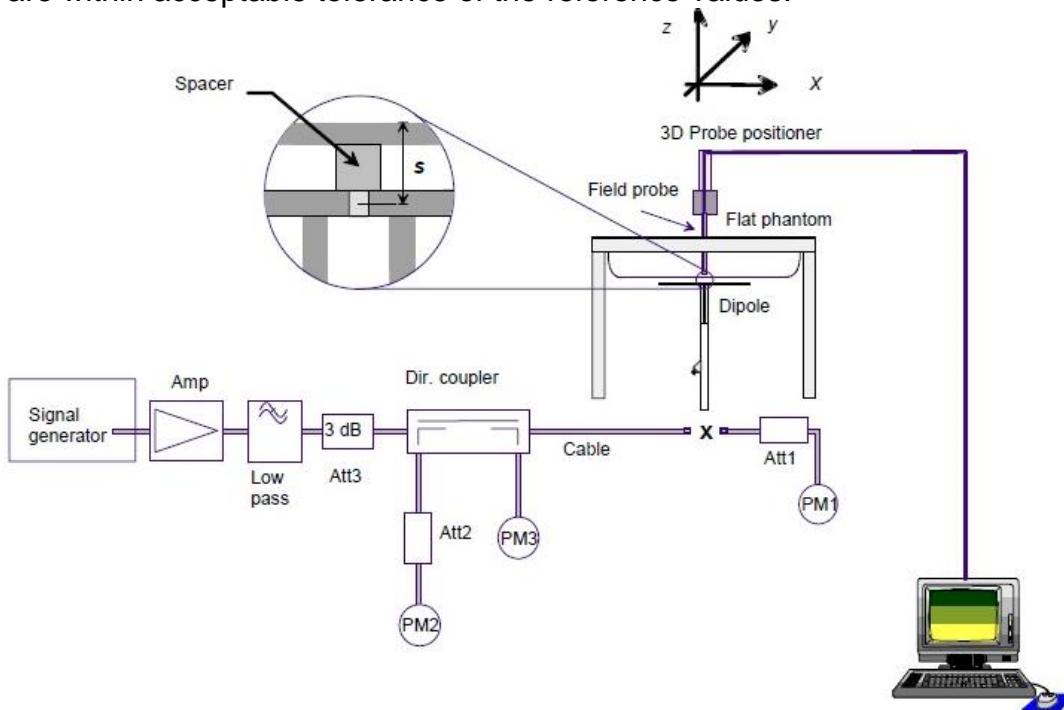
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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	8.51	1.98	7.92	-6.93	± 10%	Jun.17,2025
D835V2	4d063	835	9.4	2.35	9.4	0.00	± 10%	Jun.17,2025
D1750V2	1008	1750	36.3	8.99	35.96	-0.94	± 10%	Jun.18,2025
D2000V2	1015	2000	41.2	9.82	39.28	-4.66	± 10%	Jun.18,2025
D2450V2	727	2450	52.6	13.1	52.4	-0.38	± 10%	Jun.19,2025
D2600V2	1005	2600	55.3	14.1	56.4	1.99	± 10%	Jun.20,2025

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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).
- UMTS (HSDPA):** The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is $\leq \frac{1}{4} \text{ dB}$ higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA). The following 4 sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: $\Delta ACK, \Delta NACK$ and $\Delta CQI = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

- UMTS (HSPA):** The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is $\leq \frac{1}{4} \text{ dB}$ higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

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Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow \beta_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

- **UMTS (HSPA+):** The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is $\leq \frac{1}{4}$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

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

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

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

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

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

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

- **UMTS (DC-HSDPA):** The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is $\leq \frac{1}{4}$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122

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Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
▪ Nominal Avg. Inf. Bit Rate ⁽¹⁾	kbps ⁽²⁾	60 ⁽²⁾
▪ Inter-TTI Distance ⁽²⁾	TTI's ⁽²⁾	1 ⁽²⁾
▪ Number of HARQ Processes ⁽²⁾	Processes ⁽²⁾	6 ⁽²⁾
▪ Information Bit Payload (N_{INF}) ⁽²⁾	Bits ⁽²⁾	120 ⁽²⁾
▪ Number Code Blocks ⁽²⁾	Blocks ⁽²⁾	1 ⁽²⁾
▪ Binary Channel Bits Per TTI ⁽²⁾	Bits ⁽²⁾	960 ⁽²⁾
▪ Total Available SML's in UE ⁽²⁾	SML's ⁽²⁾	19200 ⁽²⁾
▪ Number of SML's per HARQ Proc. ⁽²⁾	SML's ⁽²⁾	3200 ⁽²⁾
▪ Coding Rate ⁽²⁾		0.15 ⁽²⁾
▪ Number of Physical Channel Codes ⁽²⁾	Codes ⁽²⁾	1 ⁽²⁾
▪ Modulation ⁽²⁾		QPSK ⁽²⁾
▪ Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table. ⁽²⁾		
▪ Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used. ⁽²⁾		

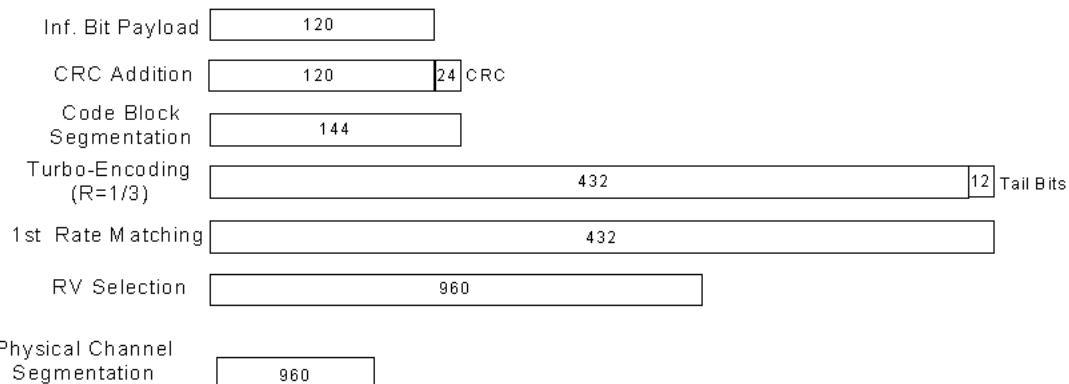


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)⁽²⁾

The following 4 sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: $\Delta ACK, \Delta NACK$ and $\Delta CQR = 8 \Leftrightarrow \beta_{hs} = \beta_c/\beta_d = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

• **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.

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- 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 ≤ 0.8 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 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 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

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reported SAR of a configuration for the largest channel bandwidth is $> 1.45 \text{ W/kg}$. 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.

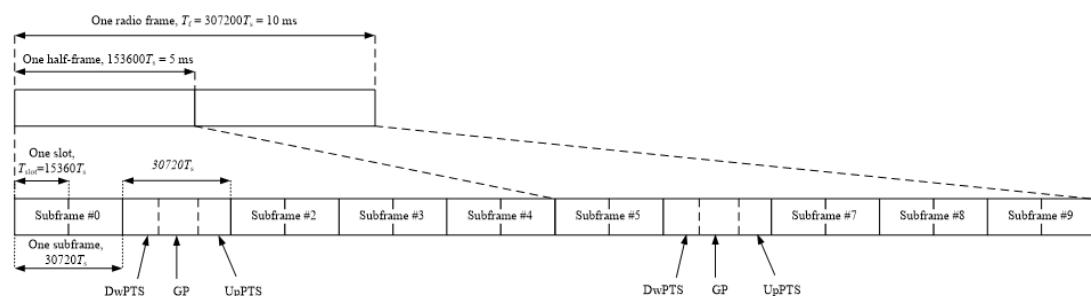


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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	$6592 \cdot T_s$			$7680 \cdot T_s$		
1	$19760 \cdot T_s$			$20480 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
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	$19760 \cdot T_s$			$23040 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$				-	-
9	$13168 \cdot T_s$				-	-

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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 $\leq 0.8 \text{ W/kg}$, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is $> 0.8 \text{ W/kg}$, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, 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 $\leq 1.2 \text{ W/kg}$.

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5.3 Test position

SAR test position (10mm)

The SAR test separation distance for hotspot mode is determined according to device form factor. Since the overall length and width of a device is $> 9\text{ cm} \times 5\text{ cm}$ ($\sim 3.5'' \times 2''$), a test separation distance of 10 mm is required for hotspot mode SAR measurements.

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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 WCDMA

ANT 1

Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)			24.00	
3GPP Rel 99	RMC 12.2Kbps	23.12	23.09	23.15
3GPP Rel 5	HSDPA Subtest-1	22.96	23.02	22.99
	HSDPA Subtest-2	22.94	23.05	22.93
	HSDPA Subtest-3	22.46	22.46	22.40
	HSDPA Subtest-4	22.41	22.47	22.40
3GPP Rel 6	HSUPA Subtest-1	22.93	23.04	22.93
	HSUPA Subtest-2	21.08	21.03	20.94
	HSUPA Subtest-3	22.01	21.98	21.98
	HSUPA Subtest-4	20.94	20.99	21.00
	HSUPA Subtest-5	23.01	23.06	23.05
3GPP Rel 7	HSPA+	20.39	20.51	20.52

ANT 2

Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)			24.00	
3GPP Rel 99	RMC 12.2Kbps	23.98	23.95	24.00
3GPP Rel 5	HSDPA Subtest-1	23.72	23.78	23.70
	HSDPA Subtest-2	23.79	23.75	23.81
	HSDPA Subtest-3	23.26	23.35	23.24
	HSDPA Subtest-4	23.39	23.35	23.40
3GPP Rel 6	HSUPA Subtest-1	23.76	23.88	23.81
	HSUPA Subtest-2	21.72	21.84	21.81
	HSUPA Subtest-3	22.87	22.85	22.71
	HSUPA Subtest-4	21.80	21.73	21.83
	HSUPA Subtest-5	23.74	23.74	23.72
3GPP Rel 7	HSPA+	21.35	21.21	21.37

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ANT 3

Band		WCDMA II		
	TX Channel	9262	9400	9538
	Frequency (MHz)	1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		21.00		
3GPP Rel 99	RMC 12.2Kbps	20.75	20.68	20.71
3GPP Rel 5	HSDPA Subtest-1	20.48	20.59	20.62
	HSDPA Subtest-2	20.63	20.67	20.63
	HSDPA Subtest-3	20.07	20.08	20.18
	HSDPA Subtest-4	20.19	20.20	20.15
3GPP Rel 6	HSUPA Subtest-1	20.49	20.65	20.63
	HSUPA Subtest-2	18.74	18.81	18.83
	HSUPA Subtest-3	19.65	19.64	19.81
	HSUPA Subtest-4	18.84	18.75	18.93
	HSUPA Subtest-5	20.62	20.53	20.63
3GPP Rel 7	HSPA+	18.26	18.43	18.41
Band		WCDMA IV		
	TX Channel	1312	1413	1513
	Frequency (MHz)	1712.4	1732.6	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		21.00		
3GPP Rel 99	RMC 12.2Kbps	20.60	20.72	20.69
3GPP Rel 5	HSDPA Subtest-1	20.48	20.60	20.51
	HSDPA Subtest-2	20.63	20.51	20.61
	HSDPA Subtest-3	20.04	20.09	20.03
	HSDPA Subtest-4	20.09	20.17	20.11
3GPP Rel 6	HSUPA Subtest-1	20.53	20.52	20.61
	HSUPA Subtest-2	18.79	18.76	18.83
	HSUPA Subtest-3	19.60	19.67	19.58
	HSUPA Subtest-4	18.76	18.84	18.79
	HSUPA Subtest-5	20.59	20.54	20.48
3GPP Rel 7	HSPA+	18.35	18.31	18.25

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6.2 FDD LTE

ANT 1

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	22.89	22.93	22.87	23.00	0
		1	25	22.79	22.72	22.73	23.00	0
		1	49	22.83	22.79	22.78	23.00	0
		25	0	21.71	21.71	21.67	22.00	1
		25	12	21.81	21.66	21.65	22.00	1
		25	25	21.85	21.68	21.67	22.00	1
		50	0	21.84	21.73	21.79	22.00	1
10	16-QAM	1	0	21.68	21.71	21.75	22.00	1
		1	25	21.78	21.77	21.70	22.00	1
		1	49	21.74	21.84	21.67	22.00	1
		25	0	20.78	20.83	20.76	21.00	2
		25	12	20.77	20.69	20.70	21.00	2
		25	25	20.76	20.70	20.81	21.00	2
		50	0	20.68	20.70	20.74	21.00	2
10	64-QAM	1	0	20.71	20.82	20.67	21.00	2
		1	25	20.83	20.80	20.68	21.00	2
		1	49	20.73	20.71	20.77	21.00	2
		25	0	19.71	19.85	19.82	20.00	3
		25	12	19.69	19.81	19.68	20.00	3
		25	25	19.73	19.70	19.79	20.00	3
		50	0	19.84	19.74	19.72	20.00	3

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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)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	22.67	22.74	22.79	23.00	0
		1	12	22.77	22.67	22.71	23.00	0
		1	24	22.80	22.70	22.81	23.00	0
		12	0	21.81	21.67	21.70	22.00	1
		12	6	21.74	21.82	21.71	22.00	1
		12	13	21.68	21.76	21.66	22.00	1
		25	0	21.69	21.74	21.71	22.00	1
5	16-QAM	1	0	21.82	21.78	21.76	22.00	1
		1	12	21.79	21.71	21.70	22.00	1
		1	24	21.72	21.71	21.79	22.00	1
		12	0	20.73	20.67	20.66	21.00	2
		12	6	20.77	20.82	20.74	21.00	2
		12	13	20.74	20.71	20.84	21.00	2
		25	0	20.76	20.70	20.68	21.00	2
5	64-QAM	1	0	20.70	20.74	20.68	21.00	2
		1	12	20.76	20.66	20.73	21.00	2
		1	24	20.68	20.73	20.66	21.00	2
		12	0	19.81	19.72	19.74	20.00	3
		12	6	19.76	19.73	19.71	20.00	3
		12	13	19.72	19.71	19.84	20.00	3
		25	0	19.76	19.80	19.71	20.00	3

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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	22.69	22.77	22.82	23.00	0
		1	7	22.78	22.70	22.70	23.00	0
		1	14	22.67	22.84	22.72	23.00	0
		8	0	21.80	21.83	21.81	22.00	1
		8	4	21.84	21.71	21.79	22.00	1
		8	7	21.83	21.76	21.79	22.00	1
		15	0	21.75	21.67	21.70	22.00	1
3	16-QAM	1	0	21.80	21.82	21.80	22.00	1
		1	7	21.74	21.82	21.78	22.00	1
		1	14	21.83	21.73	21.67	22.00	1
		8	0	20.77	20.66	20.76	21.00	2
		8	4	20.79	20.76	20.72	21.00	2
		8	7	20.71	20.80	20.68	21.00	2
		15	0	20.71	20.79	20.68	21.00	2
3	64-QAM	1	0	20.75	20.75	20.66	21.00	2
		1	7	20.71	20.66	20.78	21.00	2
		1	14	20.76	20.83	20.66	21.00	2
		8	0	19.68	19.75	19.69	20.00	3
		8	4	19.65	19.73	19.75	20.00	3
		8	7	19.71	19.84	19.79	20.00	3
		15	0	19.75	19.76	19.70	20.00	3

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Frequency (MHz)				824.7	836.5	848.3		
Channel				20407	20525	20643		
1.4	QPSK	1	0	22.67	22.75	22.73	23.00	0
		1	2	22.82	22.83	22.75	23.00	0
		1	5	22.76	22.80	22.69	23.00	0
		3	0	21.79	21.74	21.65	23.00	0
		3	2	21.74	21.84	21.69	23.00	0
		3	3	21.67	21.82	21.68	23.00	0
		6	0	21.78	21.76	21.81	22.00	1
1.4	16-QAM	1	0	21.66	21.69	21.75	22.00	1
		1	2	21.72	21.71	21.66	22.00	1
		1	5	21.83	21.82	21.76	22.00	1
		3	0	20.72	20.67	20.70	22.00	1
		3	2	20.77	20.74	20.78	22.00	1
		3	3	20.71	20.76	20.84	22.00	1
		6	0	20.71	20.73	20.82	21.00	2
1.4	64-QAM	1	0	20.72	20.76	20.83	21.00	2
		1	2	20.69	20.65	20.85	21.00	2
		1	5	20.81	20.66	20.80	21.00	2
		3	0	19.72	19.73	19.71	21.00	2
		3	2	19.69	19.67	19.73	21.00	2
		3	3	19.74	19.85	19.75	21.00	2
		6	0	19.67	19.77	19.74	20.00	3

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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	22.66	22.68	22.64	23.00	0
		1	25	22.55	22.47	22.54	23.00	0
		1	49	22.55	22.52	22.45	23.00	0
		25	0	21.41	21.42	21.54	22.00	1
		25	12	21.41	21.55	21.47	22.00	1
		25	25	21.48	21.55	21.46	22.00	1
		50	0	21.54	21.53	21.42	22.00	1
10	16-QAM	1	0	21.47	21.56	21.56	22.00	1
		1	25	21.45	21.43	21.47	22.00	1
		1	49	21.50	21.60	21.50	22.00	1
		25	0	20.56	20.41	20.53	21.00	2
		25	12	20.55	20.59	20.50	21.00	2
		25	25	20.51	20.52	20.54	21.00	2
		50	0	20.43	20.49	20.59	21.00	2
10	64-QAM	1	0	20.43	20.47	20.50	21.00	2
		1	25	20.57	20.58	20.47	21.00	2
		1	49	20.54	20.46	20.55	21.00	2
		25	0	19.48	19.50	19.51	20.00	3
		25	12	19.46	19.45	19.51	20.00	3
		25	25	19.48	19.54	19.45	20.00	3
		50	0	19.47	19.51	19.49	20.00	3

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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)				701.5	707.5	713.5		
Channel				23035	23095	23155		
5	QPSK	1	0	22.55	22.57	22.54	23.00	0
		1	12	22.42	22.41	22.44	23.00	0
		1	24	22.48	22.52	22.59	23.00	0
		12	0	21.58	21.54	21.54	22.00	1
		12	6	21.43	21.53	21.47	22.00	1
		12	13	21.48	21.54	21.47	22.00	1
		25	0	21.53	21.45	21.46	22.00	1
5	16-QAM	1	0	21.40	21.41	21.58	22.00	1
		1	12	21.42	21.51	21.53	22.00	1
		1	24	21.55	21.44	21.58	22.00	1
		12	0	20.55	20.53	20.54	21.00	2
		12	6	20.46	20.45	20.44	21.00	2
		12	13	20.59	20.50	20.51	21.00	2
		25	0	20.43	20.45	20.58	21.00	2
5	64-QAM	1	0	20.42	20.47	20.60	21.00	2
		1	12	20.42	20.58	20.44	21.00	2
		1	24	20.50	20.40	20.41	21.00	2
		12	0	19.49	19.58	19.52	20.00	3
		12	6	19.48	19.51	19.50	20.00	3
		12	13	19.53	19.53	19.56	20.00	3
		25	0	19.42	19.45	19.56	20.00	3

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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	22.47	22.43	22.43	23.00	0
		1	7	22.47	22.60	22.48	23.00	0
		1	14	22.59	22.41	22.43	23.00	0
		8	0	21.59	21.49	21.53	22.00	1
		8	4	21.46	21.52	21.50	22.00	1
		8	7	21.49	21.48	21.48	22.00	1
		15	0	21.54	21.45	21.46	22.00	1
3	16-QAM	1	0	21.55	21.51	21.58	22.00	1
		1	7	21.49	21.46	21.49	22.00	1
		1	14	21.56	21.51	21.56	22.00	1
		8	0	20.42	20.43	20.48	21.00	2
		8	4	20.51	20.53	20.58	21.00	2
		8	7	20.45	20.45	20.52	21.00	2
		15	0	20.50	20.59	20.52	21.00	2
3	64-QAM	1	0	20.46	20.46	20.41	21.00	2
		1	7	20.51	20.53	20.55	21.00	2
		1	14	20.52	20.46	20.40	21.00	2
		8	0	19.43	19.46	19.59	20.00	3
		8	4	19.41	19.53	19.40	20.00	3
		8	7	19.41	19.54	19.47	20.00	3
		15	0	19.48	19.57	19.56	20.00	3

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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)				699.7	707.5	715.3		
Channel				23017	23095	23173		
1.4	QPSK	1	0	22.44	22.60	22.45	23.00	0
		1	2	22.49	22.56	22.56	23.00	0
		1	5	22.52	22.58	22.49	23.00	0
		3	0	22.44	22.50	22.59	23.00	0
		3	2	22.55	22.49	22.43	23.00	0
		3	3	22.49	22.57	22.50	23.00	0
		6	0	21.50	21.54	21.53	22.00	1
1.4	16-QAM	1	0	21.43	21.57	21.41	22.00	1
		1	2	21.44	21.45	21.55	22.00	1
		1	5	21.42	21.52	21.40	22.00	1
		3	0	21.54	21.46	21.57	22.00	1
		3	2	21.42	21.50	21.55	22.00	1
		3	3	21.54	21.51	21.50	22.00	1
		6	0	20.50	20.43	20.48	21.00	2
1.4	64-QAM	1	0	20.55	20.48	20.45	21.00	2
		1	2	20.47	20.47	20.44	21.00	2
		1	5	20.59	20.54	20.50	21.00	2
		3	0	20.41	20.52	20.53	21.00	2
		3	2	20.57	20.54	20.48	21.00	2
		3	3	20.55	20.52	20.48	21.00	2
		6	0	19.49	19.50	19.59	20.00	3

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ANT 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)				829	836.5	844		
Channel				20450	20525	20600		
10	QPSK	1	0	22.87	22.91	22.84	23.00	0
		1	25	22.60	22.79	22.71	23.00	0
		1	49	22.79	22.63	22.64	23.00	0
		25	0	21.72	21.61	21.71	22.00	1
		25	12	21.78	21.76	21.65	22.00	1
		25	25	21.76	21.65	21.77	22.00	1
		50	0	21.65	21.64	21.78	22.00	1
10	16-QAM	1	0	21.66	21.80	21.72	22.00	1
		1	25	21.66	21.65	21.61	22.00	1
		1	49	21.65	21.73	21.67	22.00	1
		25	0	20.73	20.66	20.62	21.00	2
		25	12	20.75	20.73	20.75	21.00	2
		25	25	20.68	20.67	20.79	21.00	2
		50	0	20.75	20.80	20.65	21.00	2
10	64-QAM	1	0	20.64	20.68	20.67	21.00	2
		1	25	20.72	20.71	20.73	21.00	2
		1	49	20.69	20.72	20.67	21.00	2
		25	0	19.80	19.69	19.70	20.00	3
		25	12	19.74	19.62	19.71	20.00	3
		25	25	19.73	19.78	19.70	20.00	3
		50	0	19.77	19.78	19.72	20.00	3

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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)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	22.61	22.70	22.71	23.00	0
		1	12	22.79	22.60	22.65	23.00	0
		1	24	22.69	22.75	22.73	23.00	0
		12	0	21.60	21.69	21.71	22.00	1
		12	6	21.71	21.62	21.79	22.00	1
		12	13	21.79	21.67	21.68	22.00	1
		25	0	21.72	21.79	21.74	22.00	1
5	16-QAM	1	0	21.77	21.61	21.60	22.00	1
		1	12	21.64	21.80	21.62	22.00	1
		1	24	21.77	21.65	21.76	22.00	1
		12	0	20.64	20.69	20.69	21.00	2
		12	6	20.77	20.67	20.77	21.00	2
		12	13	20.67	20.70	20.67	21.00	2
		25	0	20.73	20.64	20.75	21.00	2
5	64-QAM	1	0	20.67	20.62	20.74	21.00	2
		1	12	20.68	20.74	20.62	21.00	2
		1	24	20.62	20.62	20.64	21.00	2
		12	0	19.65	19.66	19.68	20.00	3
		12	6	19.79	19.73	19.62	20.00	3
		12	13	19.72	19.64	19.67	20.00	3
		25	0	19.80	19.61	19.73	20.00	3

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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	22.70	22.76	22.66	23.00	0
		1	7	22.66	22.74	22.61	23.00	0
		1	14	22.63	22.78	22.80	23.00	0
		8	0	21.62	21.69	21.78	22.00	1
		8	4	21.67	21.67	21.70	22.00	1
		8	7	21.73	21.62	21.64	22.00	1
		15	0	21.64	21.65	21.77	22.00	1
3	16-QAM	1	0	21.72	21.61	21.78	22.00	1
		1	7	21.73	21.64	21.74	22.00	1
		1	14	21.72	21.72	21.75	22.00	1
		8	0	20.76	20.64	20.67	21.00	2
		8	4	20.74	20.66	20.60	21.00	2
		8	7	20.79	20.69	20.73	21.00	2
		15	0	20.67	20.64	20.66	21.00	2
3	64-QAM	1	0	20.73	20.63	20.72	21.00	2
		1	7	20.80	20.62	20.61	21.00	2
		1	14	20.68	20.76	20.64	21.00	2
		8	0	19.64	19.60	19.68	20.00	3
		8	4	19.68	19.78	19.76	20.00	3
		8	7	19.63	19.72	19.78	20.00	3
		15	0	19.70	19.71	19.78	20.00	3

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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)				824.7	836.5	848.3		
Channel				20407	20525	20643		
1.4	QPSK	1	0	22.66	22.78	22.71	23.00	0
		1	2	22.76	22.69	22.65	23.00	0
		1	5	22.66	22.73	22.63	23.00	0
		3	0	22.67	22.77	22.69	23.00	0
		3	2	22.63	22.71	22.69	23.00	0
		3	3	22.68	22.61	22.77	23.00	0
		6	0	21.73	21.66	21.74	22.00	1
1.4	16-QAM	1	0	21.64	21.73	21.61	22.00	1
		1	2	21.64	21.68	21.68	22.00	1
		1	5	21.75	21.70	21.72	22.00	1
		3	0	21.79	21.63	21.74	22.00	1
		3	2	21.69	21.67	21.67	22.00	1
		3	3	21.74	21.76	21.68	22.00	1
		6	0	20.79	20.67	20.79	21.00	2
1.4	64-QAM	1	0	20.70	20.79	20.63	21.00	2
		1	2	20.60	20.65	20.72	21.00	2
		1	5	20.64	20.76	20.77	21.00	2
		3	0	20.64	20.63	20.69	21.00	2
		3	2	20.78	20.69	20.67	21.00	2
		3	3	20.66	20.61	20.75	21.00	2
		6	0	19.61	19.73	19.69	20.00	3

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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	22.68	22.71	22.60	23.00	0
		1	25	22.51	22.46	22.53	23.00	0
		1	49	22.55	22.37	22.55	23.00	0
		25	0	21.41	21.53	21.45	22.00	1
		25	12	21.48	21.53	21.45	22.00	1
		25	25	21.42	21.37	21.44	22.00	1
		50	0	21.51	21.42	21.44	22.00	1
10	16-QAM	1	0	21.39	21.41	21.53	22.00	1
		1	25	21.45	21.36	21.45	22.00	1
		1	49	21.38	21.45	21.46	22.00	1
		25	0	20.54	20.53	20.55	21.00	2
		25	12	20.38	20.49	20.44	21.00	2
		25	25	20.54	20.35	20.41	21.00	2
		50	0	20.39	20.51	20.36	21.00	2
10	64-QAM	1	0	20.38	20.54	20.42	21.00	2
		1	25	20.46	20.42	20.48	21.00	2
		1	49	20.52	20.37	20.36	21.00	2
		25	0	19.44	19.47	19.37	20.00	3
		25	12	19.36	19.53	19.42	20.00	3
		25	25	19.51	19.40	19.51	20.00	3
		50	0	19.47	19.45	19.47	20.00	3

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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)				701.5	707.5	713.5		
Channel				23035	23095	23155		
5	QPSK	1	0	22.41	22.51	22.44	23.00	0
		1	12	22.41	22.45	22.50	23.00	0
		1	24	22.37	22.49	22.52	23.00	0
		12	0	21.47	21.45	21.35	22.00	1
		12	6	21.47	21.53	21.36	22.00	1
		12	13	21.50	21.51	21.45	22.00	1
		25	0	21.43	21.41	21.44	22.00	1
5	16-QAM	1	0	21.46	21.45	21.44	22.00	1
		1	12	21.37	21.38	21.42	22.00	1
		1	24	21.53	21.48	21.54	22.00	1
		12	0	20.44	20.39	20.47	21.00	2
		12	6	20.51	20.47	20.42	21.00	2
		12	13	20.53	20.36	20.51	21.00	2
		25	0	20.53	20.51	20.43	21.00	2
5	64-QAM	1	0	20.44	20.45	20.37	21.00	2
		1	12	20.36	20.54	20.51	21.00	2
		1	24	20.46	20.38	20.46	21.00	2
		12	0	19.42	19.54	19.39	20.00	3
		12	6	19.47	19.51	19.46	20.00	3
		12	13	19.50	19.46	19.44	20.00	3
		25	0	19.55	19.53	19.47	20.00	3

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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	22.50	22.54	22.44	23.00	0
		1	7	22.38	22.41	22.36	23.00	0
		1	14	22.53	22.37	22.42	23.00	0
		8	0	21.37	21.40	21.36	22.00	1
		8	4	21.42	21.39	21.44	22.00	1
		8	7	21.42	21.49	21.46	22.00	1
		15	0	21.44	21.53	21.49	22.00	1
3	16-QAM	1	0	21.54	21.51	21.42	22.00	1
		1	7	21.48	21.35	21.36	22.00	1
		1	14	21.40	21.46	21.45	22.00	1
		8	0	20.46	20.44	20.44	21.00	2
		8	4	20.49	20.41	20.47	21.00	2
		8	7	20.55	20.40	20.40	21.00	2
		15	0	20.38	20.39	20.48	21.00	2
3	64-QAM	1	0	20.43	20.39	20.35	21.00	2
		1	7	20.35	20.37	20.48	21.00	2
		1	14	20.46	20.37	20.51	21.00	2
		8	0	19.48	19.40	19.51	20.00	3
		8	4	19.39	19.54	19.52	20.00	3
		8	7	19.39	19.37	19.41	20.00	3
		15	0	19.42	19.37	19.40	20.00	3

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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)				699.7	707.5	715.3		
Channel				23017	23095	23173		
1.4	QPSK	1	0	22.48	22.50	22.52	23.00	0
		1	2	22.43	22.39	22.50	23.00	0
		1	5	22.55	22.38	22.47	23.00	0
		3	0	22.42	22.36	22.39	23.00	0
		3	2	22.50	22.48	22.48	23.00	0
		3	3	22.44	22.51	22.38	23.00	0
		6	0	21.45	21.53	21.41	22.00	1
1.4	16-QAM	1	0	21.36	21.49	21.44	22.00	1
		1	2	21.37	21.49	21.44	22.00	1
		1	5	21.44	21.48	21.49	22.00	1
		3	0	21.54	21.38	21.43	22.00	1
		3	2	21.55	21.41	21.54	22.00	1
		3	3	21.45	21.36	21.43	22.00	1
		6	0	20.54	20.39	20.38	21.00	2
1.4	64-QAM	1	0	20.35	20.35	20.40	21.00	2
		1	2	20.52	20.49	20.42	21.00	2
		1	5	20.54	20.41	20.47	21.00	2
		3	0	20.49	20.36	20.49	21.00	2
		3	2	20.42	20.40	20.54	21.00	2
		3	3	20.53	20.43	20.43	21.00	2
		6	0	19.40	19.45	19.41	20.00	3

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ANT 3

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	20.64	20.68	20.66	21.00	0
		1	50	20.57	20.58	20.55	21.00	0
		1	99	20.45	20.55	20.60	21.00	0
		50	0	19.53	19.62	19.55	20.00	1
		50	25	19.53	19.69	19.53	20.00	1
		50	50	19.56	19.54	19.64	20.00	1
		100	0	19.56	19.60	19.54	20.00	1
20	16-QAM	1	0	19.54	19.65	19.70	20.00	1
		1	50	19.57	19.64	19.59	20.00	1
		1	99	19.63	19.54	19.60	20.00	1
		50	0	18.72	18.74	18.61	19.00	2
		50	25	18.76	18.66	18.73	19.00	2
		50	50	18.64	18.72	18.67	19.00	2
		100	0	18.66	18.76	18.64	19.00	2
20	64-QAM	1	0	18.77	18.77	18.72	19.00	2
		1	50	18.61	18.64	18.64	19.00	2
		1	99	18.65	18.61	18.64	19.00	2
		50	0	17.83	17.71	17.82	18.00	3
		50	25	17.73	17.83	17.85	18.00	3
		50	50	17.81	17.83	17.76	18.00	3
		100	0	17.69	17.85	17.86	18.00	3

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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)				1857.5	1880	1902.5		
Channel				18675	18900	19125		
15	QPSK	1	0	20.56	20.53	20.49	21.00	0
		1	36	20.51	20.50	20.60	21.00	0
		1	74	20.43	20.53	20.57	21.00	0
		36	0	19.62	19.54	19.62	20.00	1
		36	18	19.57	19.68	19.65	20.00	1
		36	37	19.64	19.55	19.57	20.00	1
		75	0	19.56	19.68	19.70	20.00	1
15	16-QAM	1	0	19.61	19.59	19.54	20.00	1
		1	36	19.60	19.53	19.66	20.00	1
		1	74	19.63	19.53	19.63	20.00	1
		36	0	18.77	18.74	18.66	19.00	2
		36	18	18.78	18.77	18.77	19.00	2
		36	37	18.61	18.66	18.65	19.00	2
		75	0	18.68	18.66	18.64	19.00	2
15	64-QAM	1	0	18.71	18.68	18.66	19.00	2
		1	36	18.63	18.64	18.73	19.00	2
		1	74	18.73	18.67	18.71	19.00	2
		36	0	17.80	17.87	17.85	18.00	3
		36	18	17.85	17.77	17.79	18.00	3
		36	37	17.84	17.84	17.71	18.00	3
		75	0	17.83	17.84	17.79	18.00	3

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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	20.53	20.45	20.51	21.00	0
		1	25	20.48	20.55	20.57	21.00	0
		1	49	20.49	20.48	20.58	21.00	0
		25	0	19.65	19.67	19.69	20.00	1
		25	12	19.65	19.59	19.61	20.00	1
		25	25	19.61	19.65	19.61	20.00	1
		50	0	19.54	19.63	19.54	20.00	1
10	16-QAM	1	0	19.65	19.56	19.58	20.00	1
		1	25	19.69	19.68	19.62	20.00	1
		1	49	19.52	19.62	19.58	20.00	1
		25	0	18.61	18.66	18.66	19.00	2
		25	12	18.71	18.77	18.75	19.00	2
		25	25	18.66	18.75	18.64	19.00	2
		50	0	18.66	18.71	18.66	19.00	2
10	64-QAM	1	0	18.77	18.77	18.75	19.00	2
		1	25	18.77	18.68	18.75	19.00	2
		1	49	18.77	18.72	18.73	19.00	2
		25	0	17.80	17.74	17.77	18.00	3
		25	12	17.69	17.72	17.78	18.00	3
		25	25	17.87	17.71	17.80	18.00	3
		50	0	17.85	17.75	17.75	18.00	3

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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)				1852.5	1880	1907.5		
Channel				18625	18900	19175		
5	QPSK	1	0	20.56	20.66	20.62	21.00	0
		1	12	20.56	20.61	20.66	21.00	0
		1	24	20.59	20.59	20.58	21.00	0
		12	0	19.77	19.75	19.69	20.00	1
		12	6	19.74	19.72	19.79	20.00	1
		12	13	19.66	19.62	19.66	20.00	1
		25	0	19.68	19.77	19.78	20.00	1
5	16-QAM	1	0	19.69	19.77	19.71	20.00	1
		1	12	19.68	19.78	19.76	20.00	1
		1	24	19.77	19.63	19.67	20.00	1
		12	0	18.76	18.70	18.77	19.00	2
		12	6	18.80	18.79	18.76	19.00	2
		12	13	18.80	18.68	18.82	19.00	2
		25	0	18.74	18.79	18.81	19.00	2
5	64-QAM	1	0	18.77	18.70	18.69	19.00	2
		1	12	18.77	18.78	18.79	19.00	2
		1	24	18.78	18.82	18.85	19.00	2
		12	0	17.89	17.86	17.82	18.00	3
		12	6	17.79	17.80	17.90	18.00	3
		12	13	17.86	17.78	17.86	18.00	3
		25	0	17.88	17.82	17.94	18.00	3

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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	20.34	20.44	20.37	21.00	0
		1	7	20.30	20.33	20.36	21.00	0
		1	14	20.26	20.48	20.34	21.00	0
		8	0	19.49	19.55	19.40	20.00	1
		8	4	19.39	19.56	19.36	20.00	1
		8	7	19.46	19.59	19.41	20.00	1
		15	0	19.34	19.45	19.48	20.00	1
3	16-QAM	1	0	19.46	19.43	19.39	20.00	1
		1	7	19.44	19.58	19.46	20.00	1
		1	14	19.40	19.44	19.34	20.00	1
		8	0	18.42	18.51	18.54	19.00	2
		8	4	18.46	18.57	18.46	19.00	2
		8	7	18.45	18.67	18.57	19.00	2
		15	0	18.41	18.59	18.57	19.00	2
3	64-QAM	1	0	18.54	18.53	18.46	19.00	2
		1	7	18.44	18.63	18.43	19.00	2
		1	14	18.45	18.51	18.40	19.00	2
		8	0	17.66	17.67	17.60	18.00	3
		8	4	17.58	17.72	17.55	18.00	3
		8	7	17.56	17.76	17.57	18.00	3
		15	0	17.54	17.69	17.58	18.00	3

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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)				1850.7	1880	1909.3		
Channel				18607	18900	19193		
1.4	QPSK	1	0	20.44	20.46	20.38	21.00	0
		1	2	20.34	20.37	20.34	21.00	0
		1	5	20.27	20.42	20.38	21.00	0
		3	0	20.32	20.41	20.39	21.00	0
		3	2	20.33	20.41	20.37	21.00	0
		3	3	20.29	20.38	20.39	21.00	0
		6	0	19.34	19.55	19.45	20.00	1
1.4	16-QAM	1	0	19.50	19.51	19.50	20.00	1
		1	2	19.37	19.53	19.55	20.00	1
		1	5	19.39	19.48	19.56	20.00	1
		3	0	19.36	19.42	19.48	20.00	1
		3	2	19.46	19.56	19.44	20.00	1
		3	3	19.46	19.56	19.59	20.00	1
		6	0	18.45	18.61	18.60	19.00	2
1.4	64-QAM	1	0	18.46	18.59	18.67	19.00	2
		1	2	18.54	18.56	18.52	19.00	2
		1	5	18.57	18.53	18.51	19.00	2
		3	0	18.46	18.63	18.54	19.00	2
		3	2	18.45	18.59	18.65	19.00	2
		3	3	18.49	18.67	18.63	19.00	2
		6	0	17.65	17.63	17.67	18.00	3

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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	22.81	22.79	22.92	23.00	0
		1	50	22.73	22.69	22.69	23.00	0
		1	99	22.72	22.74	22.65	23.00	0
		50	0	21.76	21.74	21.73	22.00	1
		50	25	21.79	21.78	21.74	22.00	1
		50	50	21.75	21.77	21.72	22.00	1
		100	0	21.75	21.68	21.62	22.00	1
20	16-QAM	1	0	21.64	21.74	21.78	22.00	1
		1	50	21.65	21.69	21.61	22.00	1
		1	99	21.69	21.59	21.78	22.00	1
		50	0	20.75	20.63	20.73	21.00	2
		50	25	20.65	20.77	20.67	21.00	2
		50	50	20.77	20.77	20.65	21.00	2
		100	0	20.76	20.63	20.71	21.00	2
20	64-QAM	1	0	20.73	20.66	20.64	21.00	2
		1	50	20.61	20.71	20.77	21.00	2
		1	99	20.59	20.70	20.62	21.00	2
		50	0	19.64	19.72	19.73	20.00	3
		50	25	19.78	19.67	19.66	20.00	3
		50	50	19.61	19.67	19.77	20.00	3
		100	0	19.76	19.73	19.74	20.00	3

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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)				1717.5	1732.5	1747.5		
Channel				20025	20175	20325		
15	QPSK	1	0	22.66	22.66	22.66	23.00	0
		1	36	22.78	22.74	22.64	23.00	0
		1	74	22.62	22.63	22.64	23.00	0
		36	0	21.73	21.62	21.60	22.00	1
		36	18	21.68	21.62	21.61	22.00	1
		36	37	21.79	21.67	21.79	22.00	1
		75	0	21.68	21.69	21.68	22.00	1
15	16-QAM	1	0	21.66	21.62	21.69	22.00	1
		1	36	21.62	21.69	21.61	22.00	1
		1	74	21.66	21.76	21.78	22.00	1
		36	0	20.74	20.70	20.60	21.00	2
		36	18	20.68	20.75	20.75	21.00	2
		36	37	20.77	20.63	20.64	21.00	2
		75	0	20.75	20.71	20.63	21.00	2
15	64-QAM	1	0	20.65	20.75	20.72	21.00	2
		1	36	20.71	20.73	20.68	21.00	2
		1	74	20.70	20.76	20.77	21.00	2
		36	0	19.78	19.60	19.76	20.00	3
		36	18	19.74	19.70	19.74	20.00	3
		36	37	19.75	19.76	19.69	20.00	3
		75	0	19.61	19.78	19.66	20.00	3

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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	22.72	22.64	22.77	23.00	0
		1	25	22.67	22.73	22.78	23.00	0
		1	49	22.63	22.68	22.68	23.00	0
		25	0	21.70	21.74	21.61	22.00	1
		25	12	21.69	21.62	21.76	22.00	1
		25	25	21.70	21.66	21.74	22.00	1
		50	0	21.74	21.65	21.73	22.00	1
10	16-QAM	1	0	21.69	21.61	21.65	22.00	1
		1	25	21.66	21.74	21.76	22.00	1
		1	49	21.68	21.69	21.74	22.00	1
		25	0	20.65	20.66	20.72	21.00	2
		25	12	20.68	20.72	20.67	21.00	2
		25	25	20.73	20.65	20.72	21.00	2
		50	0	20.66	20.60	20.72	21.00	2
10	64-QAM	1	0	20.68	20.61	20.75	21.00	2
		1	25	20.69	20.66	20.61	21.00	2
		1	49	20.70	20.65	20.76	21.00	2
		25	0	19.64	19.73	19.61	20.00	3
		25	12	19.67	19.73	19.71	20.00	3
		25	25	19.71	19.63	19.62	20.00	3
		50	0	19.62	19.64	19.78	20.00	3

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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)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	22.68	22.63	22.67	23.00	0
		1	12	22.70	22.62	22.59	23.00	0
		1	24	22.77	22.64	22.59	23.00	0
		12	0	21.67	21.64	21.68	22.00	1
		12	6	21.71	21.77	21.67	22.00	1
		12	13	21.68	21.67	21.70	22.00	1
		25	0	21.66	21.76	21.64	22.00	1
5	16-QAM	1	0	21.62	21.74	21.63	22.00	1
		1	12	21.73	21.66	21.59	22.00	1
		1	24	21.63	21.73	21.70	22.00	1
		12	0	20.70	20.70	20.65	21.00	2
		12	6	20.63	20.67	20.72	21.00	2
		12	13	20.73	20.62	20.66	21.00	2
		25	0	20.72	20.63	20.63	21.00	2
5	64-QAM	1	0	20.77	20.73	20.74	21.00	2
		1	12	20.69	20.72	20.75	21.00	2
		1	24	20.64	20.61	20.62	21.00	2
		12	0	19.66	19.66	19.77	20.00	3
		12	6	19.79	19.63	19.75	20.00	3
		12	13	19.61	19.74	19.75	20.00	3
		25	0	19.74	19.64	19.75	20.00	3

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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	22.63	22.60	22.68	23.00	0
		1	7	22.64	22.73	22.62	23.00	0
		1	14	22.60	22.73	22.76	23.00	0
		8	0	21.61	21.61	21.71	22.00	1
		8	4	21.66	21.77	21.64	22.00	1
		8	7	21.66	21.68	21.76	22.00	1
		15	0	21.59	21.69	21.75	22.00	1
3	16-QAM	1	0	21.64	21.65	21.65	22.00	1
		1	7	21.78	21.74	21.59	22.00	1
		1	14	21.65	21.74	21.60	22.00	1
		8	0	20.69	20.70	20.63	21.00	2
		8	4	20.67	20.63	20.64	21.00	2
		8	7	20.72	20.70	20.60	21.00	2
		15	0	20.63	20.71	20.63	21.00	2
3	64-QAM	1	0	20.63	20.71	20.72	21.00	2
		1	7	20.79	20.73	20.77	21.00	2
		1	14	20.65	20.76	20.65	21.00	2
		8	0	19.65	19.73	19.63	20.00	3
		8	4	19.79	19.78	19.79	20.00	3
		8	7	19.67	19.69	19.67	20.00	3
		15	0	19.71	19.59	19.67	20.00	3

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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)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	22.72	22.76	22.62	23.00	0
		1	2	22.59	22.76	22.72	23.00	0
		1	5	22.71	22.68	22.72	23.00	0
		3	0	22.63	22.66	22.71	23.00	0
		3	2	22.77	22.62	22.79	23.00	0
		3	3	22.62	22.78	22.70	23.00	0
		6	0	21.62	21.68	21.59	22.00	1
1.4	16-QAM	1	0	21.73	21.67	21.77	22.00	1
		1	2	21.74	21.67	21.64	22.00	1
		1	5	21.76	21.74	21.78	22.00	1
		3	0	21.60	21.75	21.60	22.00	1
		3	2	21.61	21.79	21.77	22.00	1
		3	3	21.63	21.63	21.67	22.00	1
		6	0	20.65	20.72	20.72	21.00	2
1.4	64-QAM	1	0	20.64	20.78	20.69	21.00	2
		1	2	20.69	20.67	20.63	21.00	2
		1	5	20.76	20.62	20.78	21.00	2
		3	0	20.68	20.67	20.79	21.00	2
		3	2	20.66	20.72	20.68	21.00	2
		3	3	20.62	20.78	20.68	21.00	2
		6	0	19.67	19.69	19.79	20.00	3

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6.3 TDD LTE

ANT 3

LTE Band 41_PC3										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
Channel				39750	40185	40620	41055	41490		
20	QPSK	1	0	21.88	21.87	21.91	21.95	21.99	22.00	0
		1	50	21.66	21.76	21.66	21.78	21.66	22.00	0
		1	99	21.68	21.71	21.69	21.72	21.70	22.00	0
		50	0	20.66	20.81	20.72	20.75	20.80	21.00	1
		50	25	20.75	20.85	20.73	20.72	20.68	21.00	1
		50	50	20.68	20.84	20.78	20.77	20.70	21.00	1
		100	0	20.70	20.83	20.76	20.77	20.66	21.00	1
20	16-QAM	1	0	20.73	20.73	20.82	20.66	21.00	21.00	1
		1	50	20.82	20.66	20.79	20.84	20.70	21.00	1
		1	99	20.77	20.71	20.75	20.74	20.74	21.00	1
		50	0	19.85	19.77	19.73	19.71	19.68	20.00	2
		50	25	19.81	19.74	19.74	19.84	19.74	20.00	2
		50	50	19.73	19.66	19.76	19.75	19.84	20.00	2
		100	0	19.75	19.67	19.72	19.66	19.69	20.00	2
20	64-QAM	1	0	19.70	19.74	19.76	19.68	19.83	20.00	2
		1	50	19.76	19.75	19.83	19.84	19.75	20.00	2
		1	99	19.85	19.78	19.69	19.66	19.81	20.00	2
		50	0	18.81	18.78	18.73	18.68	18.69	19.00	3
		50	25	18.67	18.68	18.67	18.69	18.84	19.00	3
		50	50	18.80	18.81	18.75	18.70	18.73	19.00	3
		100	0	18.85	18.83	18.85	18.85	18.67	19.00	3

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LTE Band 41_PC3										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
Channel				39725	40173	40620	41068	41515		
15	QPSK	1	0	21.68	21.72	21.69	21.72	21.84	22.00	0
		1	36	21.82	21.67	21.77	21.69	21.81	22.00	0
		1	74	21.79	21.69	21.71	21.69	21.81	22.00	0
		36	0	20.84	20.83	20.79	20.83	20.79	21.00	1
		36	18	20.67	20.74	20.65	20.73	20.75	21.00	1
		36	37	20.82	20.67	20.70	20.75	20.83	21.00	1
		75	0	20.68	20.83	20.84	20.80	20.70	21.00	1
		1	0	20.76	20.72	20.80	20.72	20.78	21.00	1
15	16-QAM	1	36	20.78	20.79	20.66	20.68	20.81	21.00	1
		1	74	20.79	20.78	20.84	20.79	20.66	21.00	1
		36	0	19.67	19.79	19.66	19.83	19.66	20.00	2
		36	18	19.77	19.66	19.66	19.82	19.81	20.00	2
		36	37	19.73	19.84	19.75	19.67	19.80	20.00	2
		75	0	19.81	19.72	19.69	19.72	19.66	20.00	2
		1	0	19.76	19.80	19.83	19.84	19.74	20.00	2
15	64-QAM	1	36	19.66	19.80	19.69	19.79	19.77	20.00	2
		1	74	19.76	19.80	19.65	19.74	19.78	20.00	2
		36	0	18.80	18.70	18.71	18.84	18.80	19.00	3
		36	18	18.74	18.70	18.78	18.72	18.75	19.00	3
		36	37	18.72	18.69	18.77	18.85	18.75	19.00	3
		75	0	18.78	18.65	18.85	18.71	18.72	19.00	3

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LTE Band 41_PC3										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
Channel				39700	40160	40620	41080	41540		
10	QPSK	1	0	21.84	21.81	21.83	21.79	21.68	22.00	0
		1	25	21.75	21.73	21.82	21.66	21.70	22.00	0
		1	49	21.77	21.74	21.69	21.66	21.70	22.00	0
		25	0	20.67	20.66	20.68	20.82	20.84	21.00	1
		25	12	20.81	20.73	20.78	20.84	20.85	21.00	1
		25	25	20.67	20.73	20.70	20.68	20.80	21.00	1
		50	0	20.67	20.80	20.70	20.74	20.78	21.00	1
10	16-QAM	1	0	20.82	20.77	20.77	20.81	20.74	21.00	1
		1	25	20.75	20.79	20.80	20.85	20.69	21.00	1
		1	49	20.76	20.66	20.72	20.83	20.67	21.00	1
		25	0	19.69	19.69	19.73	19.80	19.65	20.00	2
		25	12	19.76	19.82	19.77	19.80	19.75	20.00	2
		25	25	19.73	19.84	19.68	19.80	19.81	20.00	2
		50	0	19.65	19.75	19.67	19.72	19.74	20.00	2
10	64-QAM	1	0	19.75	19.67	19.69	19.85	19.80	20.00	2
		1	25	19.67	19.77	19.66	19.84	19.79	20.00	2
		1	49	19.68	19.78	19.77	19.78	19.76	20.00	2
		25	0	18.70	18.69	18.79	18.70	18.85	19.00	3
		25	12	18.70	18.75	18.79	18.79	18.73	19.00	3
		25	25	18.81	18.82	18.69	18.84	18.85	19.00	3
		50	0	18.73	18.82	18.78	18.67	18.67	19.00	3

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LTE Band 41_PC3										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
Channel				39675	40148	40620	41093	41565		
5	QPSK	1	0	21.82	21.74	21.68	21.82	21.66	22.00	0
		1	12	21.72	21.81	21.77	21.68	21.68	22.00	0
		1	24	21.81	21.71	21.76	21.67	21.69	22.00	0
		12	0	20.76	20.81	20.70	20.65	20.85	21.00	1
		12	6	20.67	20.67	20.71	20.65	20.66	21.00	1
		12	13	20.65	20.82	20.78	20.81	20.72	21.00	1
		25	0	20.81	20.71	20.71	20.84	20.74	21.00	1
5	16-QAM	1	0	20.76	20.67	20.71	20.76	20.77	21.00	1
		1	12	20.79	20.67	20.78	20.83	20.81	21.00	1
		1	24	20.70	20.83	20.79	20.66	20.73	21.00	1
		12	0	19.84	19.76	19.79	19.69	19.83	20.00	2
		12	6	19.68	19.82	19.68	19.71	19.84	20.00	2
		12	13	19.67	19.65	19.85	19.73	19.84	20.00	2
		25	0	19.71	19.78	19.83	19.69	19.84	20.00	2
5	64-QAM	1	0	19.71	19.73	19.83	19.74	19.71	20.00	2
		1	12	19.83	19.80	19.65	19.79	19.67	20.00	2
		1	24	19.73	19.68	19.70	19.69	19.69	20.00	2
		12	0	18.71	18.71	18.71	18.79	18.85	19.00	3
		12	6	18.70	18.84	18.66	18.77	18.68	19.00	3
		12	13	18.73	18.82	18.71	18.72	18.79	19.00	3
		25	0	18.77	18.84	18.77	18.73	18.83	19.00	3

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6.4 WLAN

WLAN 0						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.00	13.66
		6	2437		14.00	13.54
		11	2462		14.00	13.74
	802.11g	1	2412	6Mbps	13.00	12.36
		6	2437		13.00	12.48
		11	2462		13.00	12.32
	802.11n20-HT0	1	2412	MCS0	13.00	12.35
		6	2437		13.00	12.39
		11	2462		13.00	12.44
	802.11ax20-HE0	1	2412	MCS0	13.00	12.38
		6	2437		13.00	12.43
		11	2462		13.00	12.43
	802.11n40-HT0	3	2422	MCS0	13.00	12.46
		6	2437		13.00	12.32
		9	2452		13.00	12.42
	802.11ax40-HE0	3	2422	MCS0	13.00	12.34
		6	2437		13.00	12.30
		9	2452		13.00	12.33
WLAN 1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.00	13.74
		6	2437		14.00	13.60
		11	2462		14.00	13.91
	802.11g	1	2412	6Mbps	13.00	12.46
		6	2437		13.00	12.34
		11	2462		13.00	12.42
	802.11n20-HT0	1	2412	MCS0	13.00	12.43
		6	2437		13.00	12.42
		11	2462		13.00	12.29
	802.11ax20-HE0	1	2412	MCS0	13.00	12.48
		6	2437		13.00	12.30
		11	2462		13.00	12.33
	802.11n40-HT0	3	2422	MCS0	13.00	12.36
		6	2437		13.00	12.47
		9	2452		13.00	12.36
	802.11ax40-HE0	3	2422	MCS0	13.00	12.44
		6	2437		13.00	12.43
		9	2452		13.00	12.30

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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

ANT 1

Band	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	
WCDMA Band V	Front Surface	10	4132	826.4	24.0	23.12	122.46%	0.425	0.520	-
WCDMA Band V	Front Surface	10	4183	836.6	24.0	23.09	123.31%	0.421	0.519	-
WCDMA Band V	Front Surface	10	4233	846.6	24.0	23.15	121.62%	0.438	0.533	001
WCDMA Band V	Back Surface	10	4233	846.6	24.0	23.15	121.62%	0.211	0.257	-
WCDMA Band V	Top Edge	10	4233	846.6	24.0	23.15	121.62%	0.114	0.139	-
WCDMA Band V	Bottom Edge	10	4233	846.6	24.0	23.15	121.62%	0.179	0.218	-
WCDMA Band V	Right Edge	10	4233	846.6	24.0	23.15	121.62%	0.062	0.075	-
WCDMA Band V	Left Edge	10	4233	846.6	24.0	23.15	121.62%	0.002	0.002	-

ANT 2

Band	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	
WCDMA Band V	Front Surface	10	4132	826.4	24.0	23.98	100.46%	0.460	0.462	-
WCDMA Band V	Front Surface	10	4183	836.6	24.0	23.95	101.16%	0.490	0.496	-
WCDMA Band V	Front Surface	10	4233	846.6	24.0	24.00	100.00%	0.521	0.521	002
WCDMA Band V	Back Surface	10	4233	846.6	24.0	24.00	100.00%	0.359	0.359	-
WCDMA Band V	Top Edge	10	4233	846.6	24.0	24.00	100.00%	0.205	0.205	-
WCDMA Band V	Bottom Edge	10	4233	846.6	24.0	24.00	100.00%	0.192	0.192	-
WCDMA Band V	Right Edge	10	4233	846.6	24.0	24.00	100.00%	0.016	0.016	-
WCDMA Band V	Left Edge	10	4233	846.6	24.0	24.00	100.00%	0.086	0.086	-

ANT 3

Band	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	
WCDMA Band II	Front Surface	10	9262	1852.4	21.0	20.75	105.93%	0.770	0.816	003
WCDMA Band II	Front Surface	10	9400	1880	21.0	20.68	107.65%	0.739	0.796	-
WCDMA Band II	Front Surface	10	9538	1907.6	21.0	20.71	106.91%	0.642	0.686	-
WCDMA Band II	Back Surface	10	9262	1852.4	21.0	20.75	105.93%	0.675	0.715	-
WCDMA Band II	Top Edge	10	9262	1852.4	21.0	20.75	105.93%	0.209	0.221	-
WCDMA Band II	Bottom Edge	10	9262	1852.4	21.0	20.75	105.93%	0.081	0.086	-
WCDMA Band II	Right Edge	10	9262	1852.4	21.0	20.75	105.93%	0.260	0.275	-
WCDMA Band II	Left Edge	10	9262	1852.4	21.0	20.75	105.93%	0.040	0.042	-
WCDMA Band IV	Front Surface	10	1312	1712.4	21.0	20.60	109.65%	0.656	0.719	-
WCDMA Band IV	Front Surface	10	1412	1732.4	21.0	20.72	106.66%	0.798	0.851	004
WCDMA Band IV	Front Surface	10	1513	1752.6	21.0	20.69	107.40%	0.637	0.684	-
WCDMA Band IV	Back Surface	10	1412	1732.4	21.0	20.72	106.66%	0.462	0.493	-
WCDMA Band IV	Top Edge	10	1412	1732.4	21.0	20.72	106.66%	0.178	0.190	-
WCDMA Band IV	Bottom Edge	10	1412	1732.4	21.0	20.72	106.66%	0.053	0.057	-
WCDMA Band IV	Right Edge	10	1412	1732.4	21.0	20.72	106.66%	0.219	0.234	-
WCDMA Band IV	Left Edge	10	1412	1732.4	21.0	20.72	106.66%	0.012	0.013	-

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ANT 1

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 5	10MHz	QPSK	1	0	Front Surface	10	20450	829	23.00	22.89	102.57%	0.366	0.375	-
LTE Band 5			1	0	Front Surface	10	20525	836.5	23.00	22.93	101.62%	0.377	0.383	005
LTE Band 5			1	0	Front Surface	10	20600	844	23.00	22.87	103.04%	0.345	0.355	-
LTE Band 5			25	25	Front Surface	10	20450	829	22.00	21.85	103.51%	0.302	0.313	-
LTE Band 5			1	0	Back Surface	10	20525	836.5	23.00	22.93	101.62%	0.290	0.295	-
LTE Band 5			25	25	Back Surface	10	20450	829	22.00	21.85	103.51%	0.264	0.273	-
LTE Band 5			1	0	Top Edge	10	20525	836.5	23.00	22.93	101.62%	0.188	0.191	-
LTE Band 5			25	25	Top Edge	10	20450	829	22.00	21.85	103.51%	0.149	0.154	-
LTE Band 5			1	0	Bottom Edge	10	20525	836.5	23.00	22.93	101.62%	0.175	0.178	-
LTE Band 5			25	25	Bottom Edge	10	20450	829	22.00	21.85	103.51%	0.137	0.142	-
LTE Band 5			1	0	Right Edge	10	20525	836.5	23.00	22.93	101.62%	0.054	0.055	-
LTE Band 5			25	25	Right Edge	10	20450	829	22.00	21.85	103.51%	0.013	0.013	-
LTE Band 5			1	0	Left Edge	10	20525	836.5	23.00	22.93	101.62%	0.006	0.006	-
LTE Band 5			25	25	Left Edge	10	20450	829	22.00	21.85	103.51%	0.002	0.002	-
LTE Band 12	10MHz	QPSK	1	0	Front Surface	10	23060	704	23.00	22.66	108.14%	0.439	0.475	-
LTE Band 12			1	0	Front Surface	10	23095	707.5	23.00	22.68	107.65%	0.446	0.480	006
LTE Band 12			1	0	Front Surface	10	23130	711	23.00	22.64	108.64%	0.441	0.479	-
LTE Band 12			25	12	Front Surface	10	23095	707.5	22.00	21.55	110.92%	0.407	0.451	-
LTE Band 12			1	0	Back Surface	10	23095	707.5	23.00	22.68	107.65%	0.381	0.410	-
LTE Band 12			25	12	Back Surface	10	23095	707.5	22.00	21.55	110.92%	0.339	0.376	-
LTE Band 12			1	0	Top Edge	10	23095	707.5	23.00	22.68	107.65%	0.235	0.253	-
LTE Band 12			25	12	Top Edge	10	23095	707.5	22.00	21.55	110.92%	0.207	0.230	-
LTE Band 12			1	0	Bottom Edge	10	23095	707.5	23.00	22.68	107.65%	0.229	0.247	-
LTE Band 12			25	12	Bottom Edge	10	23095	707.5	22.00	21.55	110.92%	0.193	0.214	-
LTE Band 12			1	0	Right Edge	10	23095	707.5	23.00	22.68	107.65%	0.098	0.105	-
LTE Band 12			25	12	Right Edge	10	23095	707.5	22.00	21.55	110.92%	0.061	0.068	-
LTE Band 12			1	0	Left Edge	10	23095	707.5	23.00	22.68	107.65%	0.049	0.053	-
LTE Band 12			25	12	Left Edge	10	23095	707.5	22.00	21.55	110.92%	0.013	0.014	-

ANT 2

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 5	10MHz	QPSK	1	0	Front Surface	10	20450	829	23.00	22.87	103.04%	0.339	0.349	-
LTE Band 5			1	0	Front Surface	10	20525	836.5	23.00	22.91	102.09%	0.351	0.358	007
LTE Band 5			1	0	Front Surface	10	20600	844	23.00	22.84	103.75%	0.321	0.333	-
LTE Band 5			25	12	Front Surface	10	20450	829	22.00	21.78	105.20%	0.310	0.326	-
LTE Band 5			1	0	Back Surface	10	20525	836.5	23.00	22.91	102.09%	0.295	0.301	-
LTE Band 5			25	12	Back Surface	10	20450	829	22.00	21.78	105.20%	0.256	0.269	-
LTE Band 5			1	0	Top Edge	10	20525	836.5	23.00	22.91	102.09%	0.223	0.228	-
LTE Band 5			25	12	Top Edge	10	20450	829	22.00	21.78	105.20%	0.185	0.195	-
LTE Band 5			1	0	Bottom Edge	10	20525	836.5	23.00	22.91	102.09%	0.093	0.095	-
LTE Band 5			25	12	Bottom Edge	10	20450	829	22.00	21.78	105.20%	0.067	0.070	-
LTE Band 5			1	0	Right Edge	10	20625	836.5	23.00	22.91	102.09%	0.005	0.005	-
LTE Band 5			25	12	Right Edge	10	20450	829	22.00	21.78	105.20%	0.002	0.002	-
LTE Band 5			1	0	Left Edge	10	20525	836.5	23.00	22.91	102.09%	0.111	0.113	-
LTE Band 5			25	12	Left Edge	10	20450	829	22.00	21.78	105.20%	0.072	0.076	-
LTE Band 12	10MHz	QPSK	1	0	Front Surface	10	23060	704	23.00	22.66	107.65%	0.119	0.128	-
LTE Band 12			1	0	Front Surface	10	23095	707.5	23.00	22.71	106.91%	0.131	0.140	008
LTE Band 12			1	0	Front Surface	10	23130	711	23.00	22.60	109.65%	0.103	0.113	-
LTE Band 12			25	0	Front Surface	10	23095	707.5	22.00	21.53	111.43%	0.099	0.110	-
LTE Band 12			1	0	Back Surface	10	23095	707.5	23.00	22.71	106.91%	0.070	0.075	-
LTE Band 12			25	0	Back Surface	10	23095	707.5	22.00	21.53	111.43%	0.049	0.055	-
LTE Band 12			1	0	Top Edge	10	23095	707.5	23.00	22.71	106.91%	0.061	0.065	-
LTE Band 12			25	0	Top Edge	10	23095	707.5	22.00	21.53	111.43%	0.038	0.042	-
LTE Band 12			1	0	Bottom Edge	10	23095	707.5	23.00	22.71	106.91%	0.052	0.056	-
LTE Band 12			25	0	Bottom Edge	10	23095	707.5	22.00	21.53	111.43%	0.038	0.042	-
LTE Band 12			1	0	Right Edge	10	23095	707.5	23.00	22.71	106.91%	0.004	0.004	-
LTE Band 12			25	0	Right Edge	10	23095	707.5	22.00	21.53	111.43%	0.001	0.001	-
LTE Band 12			1	0	Left Edge	10	23095	707.5	23.00	22.71	106.91%	0.089	0.095	-
LTE Band 12			25	0	Left Edge	10	23095	707.5	22.00	21.53	111.43%	0.064	0.071	-

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ANT 3

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	10	18700	1860	21.00	20.64	108.64%	0.945	1.027	-
LTE Band 2			1	0	Front Surface	10	18900	1880	21.00	20.68	107.65%	0.970	1.044	009
LTE Band 2			1	0	Front Surface	10	19100	1900	21.00	20.66	108.14%	0.955	1.033	-
LTE Band 2			50	50	Front Surface	10	18700	1860	20.00	19.56	110.66%	0.869	0.962	-
LTE Band 2			50	25	Front Surface	10	18900	1860	20.00	19.69	107.40%	0.901	0.968	-
LTE Band 2			50	50	Front Surface	10	19100	1860	20.00	19.64	108.64%	0.884	0.960	-
LTE Band 2			100RB	1	Front Surface	10	18900	1880	20.00	19.60	109.65%	0.864	0.947	-
LTE Band 2			1	0	Back Surface	10	18900	1880	21.00	20.68	107.65%	0.680	0.732	-
LTE Band 2			50	25	Back Surface	10	18900	1860	20.00	19.69	107.40%	0.599	0.643	-
LTE Band 2			1	0	Top Edge	10	18900	1880	21.00	20.68	107.65%	0.503	0.541	-
LTE Band 2			50	25	Top Edge	10	18900	1860	20.00	19.69	107.40%	0.446	0.479	-
LTE Band 2			1	0	Bottom Edge	10	18900	1880	21.00	20.68	107.65%	0.210	0.226	-
LTE Band 2			50	25	Bottom Edge	10	18900	1860	20.00	19.69	107.40%	0.175	0.188	-
LTE Band 2			1	0	Right Edge	10	18900	1880	21.00	20.68	107.65%	0.435	0.468	-
LTE Band 2			50	25	Right Edge	10	18900	1860	20.00	19.69	107.40%	0.388	0.417	-
LTE Band 2			1	0	Left Edge	10	18900	1880	21.00	20.68	107.65%	0.021	0.023	-
LTE Band 2			50	25	Left Edge	10	18900	1860	20.00	19.69	107.40%	0.016	0.017	-
LTE Band 2	20MHz	QPSK	1	0	Front Surface	10	18900	1880	21.00	20.68	107.65%	0.968	1.042	-
LTE Band 4	20MHz	QPSK	1	0	Front Surface	10	20050	1720	23.00	22.81	104.47%	0.981	1.025	-
LTE Band 4			1	0	Front Surface	10	20175	1732.5	23.00	22.79	104.95%	0.989	1.038	-
LTE Band 4			1	0	Front Surface	10	20300	1745	23.00	22.92	101.86%	1.020	1.039	010
LTE Band 4			50	25	Front Surface	10	20050	1720	22.00	21.79	104.95%	0.886	0.930	-
LTE Band 4			50	25	Front Surface	10	20175	1732.5	22.00	21.78	105.20%	0.867	0.912	-
LTE Band 4			50	25	Front Surface	10	20300	1745	22.00	21.74	106.17%	0.855	0.908	-
LTE Band 4			100RB	1	Front Surface	10	20050	1720	22.00	21.75	105.93%	0.864	0.915	-
LTE Band 4			1	0	Back Surface	10	20050	1720	23.00	22.81	104.47%	0.955	0.998	-
LTE Band 4			1	0	Back Surface	10	20175	1732.5	23.00	22.79	104.95%	0.899	0.944	-
LTE Band 4			1	0	Back Surface	10	20300	1745	23.00	22.92	101.86%	0.989	1.007	-
LTE Band 4			50	25	Back Surface	10	20050	1720	22.00	21.79	104.95%	0.843	0.885	-
LTE Band 4			50	25	Back Surface	10	20175	1732.5	22.00	21.78	105.20%	0.775	0.815	-
LTE Band 4			50	25	Back Surface	10	20300	1745	22.00	21.74	106.17%	0.814	0.864	-
LTE Band 4			100RB	1	Back Surface	10	20050	1720	22.00	21.75	105.93%	0.822	0.871	-
LTE Band 4			1	0	Top Edge	10	20300	1745	23.00	22.92	101.86%	0.495	0.504	-
LTE Band 4			50	25	Top Edge	10	20050	1720	22.00	21.79	104.95%	0.414	0.435	-
LTE Band 4			1	0	Bottom Edge	10	20300	1745	23.00	22.92	101.86%	0.203	0.207	-
LTE Band 4			50	25	Bottom Edge	10	20050	1720	22.00	21.79	104.95%	0.175	0.184	-
LTE Band 4			1	0	Right Edge	10	20300	1745	23.00	22.92	101.86%	0.441	0.449	-
LTE Band 4			50	25	Right Edge	10	20050	1720	22.00	21.79	104.95%	0.394	0.414	-
LTE Band 4			1	0	Left Edge	10	20300	1745	23.00	22.92	101.86%	0.022	0.022	-
LTE Band 4			50	25	Left Edge	10	20050	1720	22.00	21.79	104.95%	0.017	0.018	-
LTE Band 4	20MHz	QPSK	1	0	Front Surface	10	20300	1745	23.00	22.92	101.86%	0.995	1.013	-
LTE Band 41_PC3	20MHz	QPSK	1	0	Front Surface	10	39750	2506	22.00	21.88	102.80%	1.002	1.030	-
LTE Band 41_PC3			1	0	Front Surface	10	40185	2549.5	22.00	21.87	103.04%	0.997	1.027	-
LTE Band 41_PC3			1	0	Front Surface	10	40620	2593	22.00	21.91	102.09%	1.011	1.032	-
LTE Band 41_PC3			1	0	Front Surface	10	41055	2636.5	22.00	21.95	101.16%	1.019	1.031	-
LTE Band 41_PC3			1	0	Front Surface	10	41490	2680	22.00	21.99	100.23%	1.030	1.032	011
LTE Band 41_PC3			50	25	Front Surface	10	39750	2506	21.00	20.75	105.93%	0.833	0.882	-
LTE Band 41_PC3			50	25	Front Surface	10	40185	2549.5	21.00	20.85	103.51%	0.872	0.903	-
LTE Band 41_PC3			50	50	Front Surface	10	40620	2593	21.00	20.78	105.20%	0.818	0.861	-
LTE Band 41_PC3			50	0	Front Surface	10	41055	2636.5	21.00	20.77	105.44%	0.904	0.953	-
LTE Band 41_PC3			50	0	Front Surface	10	41490	2680	21.00	20.80	104.71%	0.868	0.909	-
LTE Band 41_PC3			100RB	1	Front Surface	10	40185	2549.5	21.00	20.83	103.99%	0.986	1.025	-
LTE Band 41_PC3			1	0	Back Surface	10	41490	2680	22.00	21.99	100.23%	0.566	0.567	-
LTE Band 41_PC3			50	25	Back Surface	10	40185	2549.5	21.00	20.85	103.51%	0.503	0.521	-
LTE Band 41_PC3			1	0	Top Edge	10	41490	2680	22.00	21.99	100.23%	0.440	0.441	-
LTE Band 41_PC3			50	25	Top Edge	10	40185	2549.5	21.00	20.85	103.51%	0.443	0.459	-
LTE Band 41_PC3			1	0	Bottom Edge	10	41490	2680	22.00	21.99	100.23%	0.164	0.164	-
LTE Band 41_PC3			50	25	Bottom Edge	10	40185	2549.5	21.00	20.85	103.51%	0.034	0.035	-
LTE Band 41_PC3			1	0	Right Edge	10	41490	2680	22.00	21.99	100.23%	0.422	0.423	-
LTE Band 41_PC3			50	25	Right Edge	10	40185	2549.5	21.00	20.85	103.51%	0.161	0.167	-
LTE Band 41_PC3			1	0	Left Edge	10	41490	2680	22.00	21.99	100.23%	0.045	0.045	-
LTE Band 41_PC3			50	25	Left Edge	10	40185	2549.5	21.00	20.85	103.51%	0.059	0.061	-
LTE Band 41_PC3	20MHz	QPSK	1	0	Front Surface	10	41490	2680	22.00	21.99	100.23%	1.000	1.002	-

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

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WLAN

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	WLAN 0	Front Surface	10	1	2412	14.00	13.66	1.00	108.14%	0.240	0.260	-
WLAN 802.11b	WLAN 0	Front Surface	10	6	2437	14.00	13.54	1.00	111.17%	0.242	0.269	-
WLAN 802.11b	WLAN 0	Front Surface	10	11	2462	14.00	13.74	1.00	106.17%	0.257	0.273	012
WLAN 802.11b	WLAN 0	Back Surface	10	11	2462	14.00	13.74	1.00	106.17%	0.102	0.108	-
WLAN 802.11b	WLAN 0	Top Edge	10	11	2462	14.00	13.74	1.00	106.17%	0.013	0.014	-
WLAN 802.11b	WLAN 0	Bottom Edge	10	11	2462	14.00	13.74	1.00	106.17%	0.030	0.032	-
WLAN 802.11b	WLAN 0	Right Edge	10	11	2462	14.00	13.74	1.00	106.17%	0.090	0.095	-
WLAN 802.11b	WLAN 0	Left Edge	10	11	2462	14.00	13.74	1.00	106.17%	0.010	0.011	-
<hr/>												
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	WLAN 1	Front Surface	10	1	2412	14.00	13.74	1.00	106.17%	0.247	0.262	-
WLAN 802.11b	WLAN 1	Front Surface	10	6	2437	14.00	13.60	1.00	109.65%	0.251	0.275	-
WLAN 802.11b	WLAN 1	Front Surface	10	11	2462	14.00	13.91	1.00	102.09%	0.271	0.277	013
WLAN 802.11b	WLAN 1	Back Surface	10	11	2462	14.00	13.91	1.00	102.09%	0.136	0.139	-
WLAN 802.11b	WLAN 1	Top Edge	10	11	2462	14.00	13.91	1.00	102.09%	0.037	0.038	-
WLAN 802.11b	WLAN 1	Bottom Edge	10	11	2462	14.00	13.91	1.00	102.09%	0.059	0.060	-
WLAN 802.11b	WLAN 1	Right Edge	10	11	2462	14.00	13.91	1.00	102.09%	0.023	0.023	-
WLAN 802.11b	WLAN 1	Left Edge	10	11	2462	14.00	13.91	1.00	102.09%	0.079	0.081	-

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 + 2.4G WLAN 0 + 2.4G WLAN 1

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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 **(SAR1 + SAR2)^1.5/Ri**, 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 Ri 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

ANT 1

			FCC Reported SAR			Scenario 1
	Exposure Position	1	2	3	WWAN 2.4GHz WLAN WLAN 0 2.4GHz WLAN WLAN 1	1g SAR (W/kg)
		WWAN	2.4GHz WLAN WLAN 0	2.4GHz WLAN WLAN 1		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
WCDMA Band V	Front Surface	10	0.533	0.273	0.277	1.083
	Back Surface	10	0.257	0.108	0.139	0.504
	Top Edge	10	0.139	0.014	0.038	0.191
	Bottom Edge	10	0.218	0.032	0.060	0.310
	Right Edge	10	0.075	0.095	0.023	0.193
	Left Edge	10	0.002	0.011	0.081	0.094
LTE Band 5	Front Surface	10	0.383	0.273	0.277	0.933
	Back Surface	10	0.295	0.108	0.139	0.542
	Top Edge	10	0.191	0.014	0.038	0.243
	Bottom Edge	10	0.178	0.032	0.060	0.270
	Right Edge	10	0.055	0.095	0.023	0.173
	Left Edge	10	0.006	0.011	0.081	0.098
LTE Band 12	Front Surface	10	0.480	0.273	0.277	1.030
	Back Surface	10	0.410	0.108	0.139	0.657
	Top Edge	10	0.253	0.014	0.038	0.305
	Bottom Edge	10	0.247	0.032	0.060	0.339
	Right Edge	10	0.105	0.095	0.023	0.223
	Left Edge	10	0.053	0.011	0.081	0.145

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ANT 2

			FCC Reported SAR			Scenario 1
	Exposure Position	1	2	3	1+2+3 Summed 1g SAR (W/kg)	
		WWAN	2.4GHz WLAN WLAN 0	2.4GHz WLAN WLAN 1		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
WCDMA Band V	Front Surface	10	0.521	0.273	0.277	1.071
	Back Surface	10	0.359	0.108	0.139	0.606
	Top Edge	10	0.205	0.014	0.038	0.257
	Bottom Edge	10	0.192	0.032	0.060	0.284
	Right Edge	10	0.016	0.095	0.023	0.134
	Left Edge	10	0.086	0.011	0.081	0.178
LTE Band 5	Front Surface	10	0.358	0.273	0.277	0.908
	Back Surface	10	0.301	0.108	0.139	0.548
	Top Edge	10	0.228	0.014	0.038	0.280
	Bottom Edge	10	0.095	0.032	0.060	0.187
	Right Edge	10	0.005	0.095	0.023	0.123
	Left Edge	10	0.113	0.011	0.081	0.205
LTE Band 12	Front Surface	10	0.140	0.273	0.277	0.690
	Back Surface	10	0.075	0.108	0.139	0.322
	Top Edge	10	0.065	0.014	0.038	0.117
	Bottom Edge	10	0.056	0.032	0.060	0.148
	Right Edge	10	0.004	0.095	0.023	0.122
	Left Edge	10	0.095	0.011	0.081	0.187

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ANT 3

Exposure Position			FCC Reported SAR			Scenario 1 1+2+3 Summed 1g SAR (W/kg)
			1	2	3	
			WWAN	2.4GHz WLAN WLAN 0	2.4GHz WLAN WLAN 1	
WCDMA Band II	Front Surface	10	0.816	0.273	0.277	1.366
	Back Surface	10	0.715	0.108	0.139	0.962
	Top Edge	10	0.221	0.014	0.038	0.273
	Bottom Edge	10	0.086	0.032	0.060	0.178
	Right Edge	10	0.275	0.095	0.023	0.393
	Left Edge	10	0.042	0.011	0.081	0.134
WCDMA Band IV	Front Surface	10	0.851	0.273	0.277	1.401
	Back Surface	10	0.493	0.108	0.139	0.740
	Top Edge	10	0.190	0.014	0.038	0.242
	Bottom Edge	10	0.057	0.032	0.060	0.149
	Right Edge	10	0.234	0.095	0.023	0.352
	Left Edge	10	0.013	0.011	0.081	0.105
LTE Band 2	Front Surface	10	1.044	0.273	0.277	1.594
	Back Surface	10	0.732	0.108	0.139	0.979
	Top Edge	10	0.541	0.014	0.038	0.593
	Bottom Edge	10	0.226	0.032	0.060	0.318
	Right Edge	10	0.468	0.095	0.023	0.586
	Left Edge	10	0.023	0.011	0.081	0.115
LTE Band 4	Front Surface	10	1.039	0.273	0.277	1.589
	Back Surface	10	1.007	0.108	0.139	1.254
	Top Edge	10	0.504	0.014	0.038	0.556
	Bottom Edge	10	0.207	0.032	0.060	0.299
	Right Edge	10	0.449	0.095	0.023	0.567
	Left Edge	10	0.022	0.011	0.081	0.114
LTE Band 41_PC3	Front Surface	10	1.032	0.273	0.277	1.582
	Back Surface	10	0.567	0.108	0.139	0.814
	Top Edge	10	0.459	0.014	0.038	0.511
	Bottom Edge	10	0.164	0.032	0.060	0.256
	Right Edge	10	0.423	0.095	0.023	0.541
	Left Edge	10	0.061	0.011	0.081	0.153

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	547	Jan/16/2025	Jan/15/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7823	Jul/31/2024	Jul/30/2025
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	D2000V2	1015	Sep/27/2024	Sep/26/2025
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	System Validation Dipole	D2600V2	1005	Jan/14/2025	Jan/13/2026
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/17/2025	Feb/16/2026
R&S	MXG Analog Signal Generator	SMB100A03	182996	Apr/19/2025	Apr/18/2026
Agilent	Dual-directional coupler	772D	MY52180142	Oct/30/2024	Oct/29/2025
Agilent	Dual-directional coupler	778D	MY52180302	Nov/06/2024	Nov/05/2025
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	109065	Aug/28/2024	Aug/27/2025
R&S	Power Meter	NRX	102034	Dec/27/2024	Dec/26/2025
R&S	Power Sensor	NRP18S	101974	Nov/11/2024	Nov/10/2025
Keysight	EXA Signal Analyzer	N9010B	MY59071573	Jun/03/2025	Jun/02/2026
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
LKM	Digital thermometer	DTM3000	3896	Dec/26/2024	Dec/25/2025
TECPTEL	Digital thermometer	DTM-303A	TP130077	Oct/14/2024	Oct/13/2025

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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
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% ∞
<i>Measurement drift (class A evaluation)</i>	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.)	2.81%	N	1	1	0.64	0.43	1.80%	1.21% M
Liquid Conductivity (mea.)	1.67%	N	1	1	0.6	0.49	1.00%	0.82% M
Combined standard uncertainty		RSS					11.60%	11.50%
Explant uncertainty (95% confidence interval), K=2							23.20%	23.00%

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11 SAR MEASUREMENT RESULTS

Date: 2025/6/17

ID: 001**Report No. :TESA2506000467ES****WCDMA Band V_Body_Front Surface_CH 4233_10mm_Ant 1**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 40.741$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(9.6, 8.76, 8.9) @ 846.6 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.498 W/kg

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

Reference Value = 25.54 V/m; Power Drift = 0.06 dB

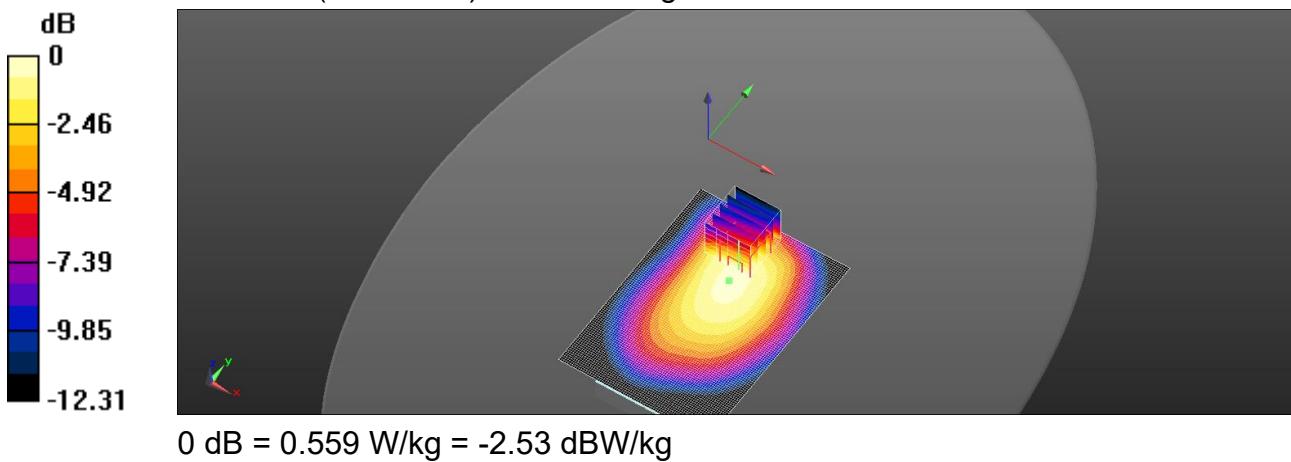
Peak SAR (extrapolated) = 0.643 W/kg

SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.291 W/kg

Smallest distance from peaks to all points 3 dB below = 32 mm

Ratio of SAR at M2 to SAR at M1 = 75.5%

Maximum value of SAR (measured) = 0.559 W/kg



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ID: 002**Report No. :TESA2506000467ES****WCDMA Band V_Body_Front Surface_CH 4233_10mm_Ant 2**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 40.741$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(9.6, 8.76, 8.9) @ 846.6 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.499 W/kg

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

Reference Value = 27.39 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.387 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 = 74.6%

Maximum value of SAR (measured) = 0.633 W/kg

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.39 V/m; Power Drift = -0.08 dB

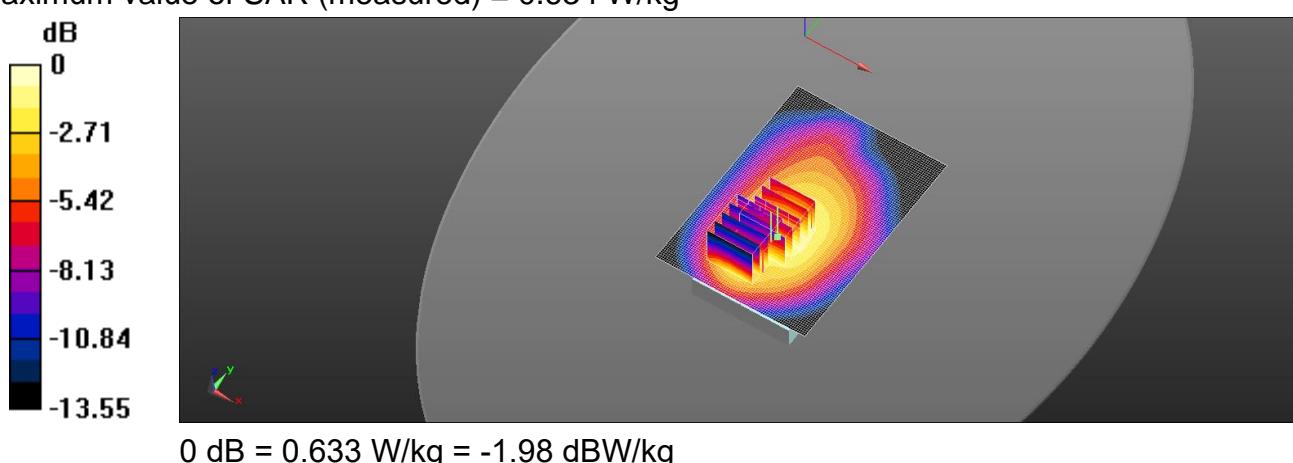
Peak SAR (extrapolated) = 0.704 W/kg

SAR(1 g) = 0.476 W/kg; SAR(10 g) = 0.305 W/kg

Smallest distance from peaks to all points 3 dB below = 30.7 mm

Ratio of SAR at M2 to SAR at M1 = 72%

Maximum value of SAR (measured) = 0.634 W/kg



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ID: 003

Report No. :TESA2506000467ES

WCDMA Band II_Body_Front Surface_CH 9262_10mm_Ant 3

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.379$ S/m; $\epsilon_r = 39.347$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.85, 7.16, 7.28) @ 1852.4 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.11 W/kg

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

Reference Value = 22.87 V/m; Power Drift = 0.05 dB

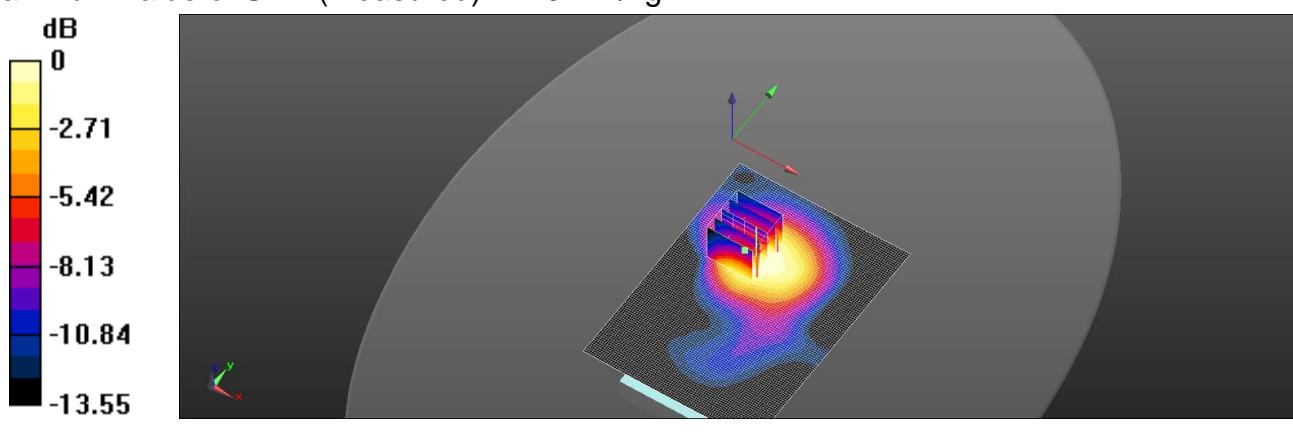
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.500 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 65.6%

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.08 dBW/kg

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ID: 004

Report No. :TESA2506000467ES

WCDMA Band IV_Body_Front Surface_CH 1412_10mm_Ant 3

Communication System: WCDMA; Frequency: 1732.4 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1732.4$ MHz; $\sigma = 1.343$ S/m; $\epsilon_r = 39.593$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(8.34, 7.61, 7.73) @ 1732.4 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.13 W/kg

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

Reference Value = 22.88 V/m; Power Drift = 0.10 dB

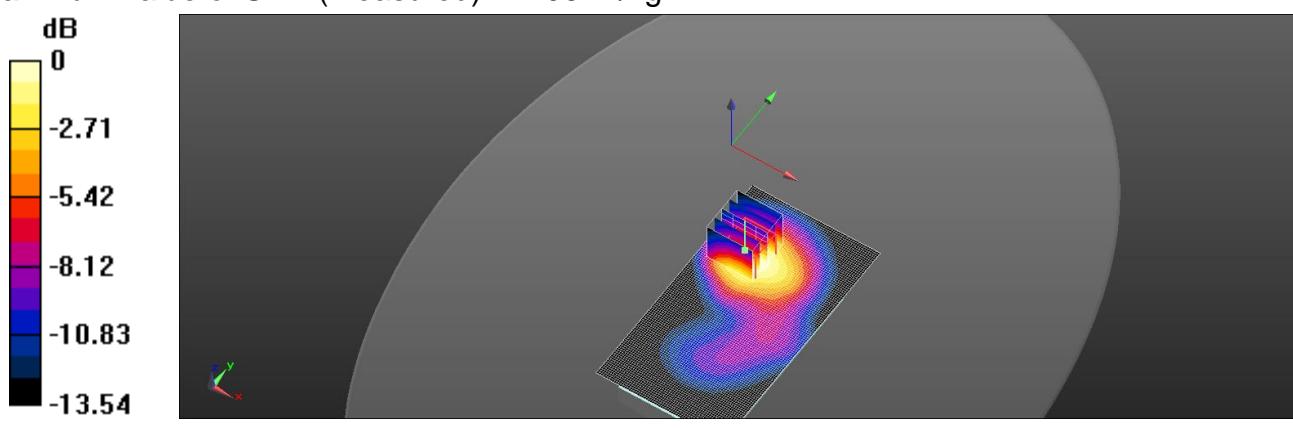
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.798 W/kg; SAR(10 g) = 0.501 W/kg

Smallest distance from peaks to all points 3 dB below = 13.8 mm

Ratio of SAR at M2 to SAR at M1 = 64.5%

Maximum value of SAR (measured) = 1.06 W/kg



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Date: 2025/6/17

ID: 005**Report No. :TESA2506000467ES****LTE Band 5 (10MHz)_Body_Front Surface_CH 20525_QPSK_1-0_10mm_Ant 1**

Communication System: LTE; Frequency: 836.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 40.905$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(9.6, 8.76, 8.9) @ 836.5 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.429 W/kg

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

Reference Value = 23.18 V/m; Power Drift = -0.06 dB

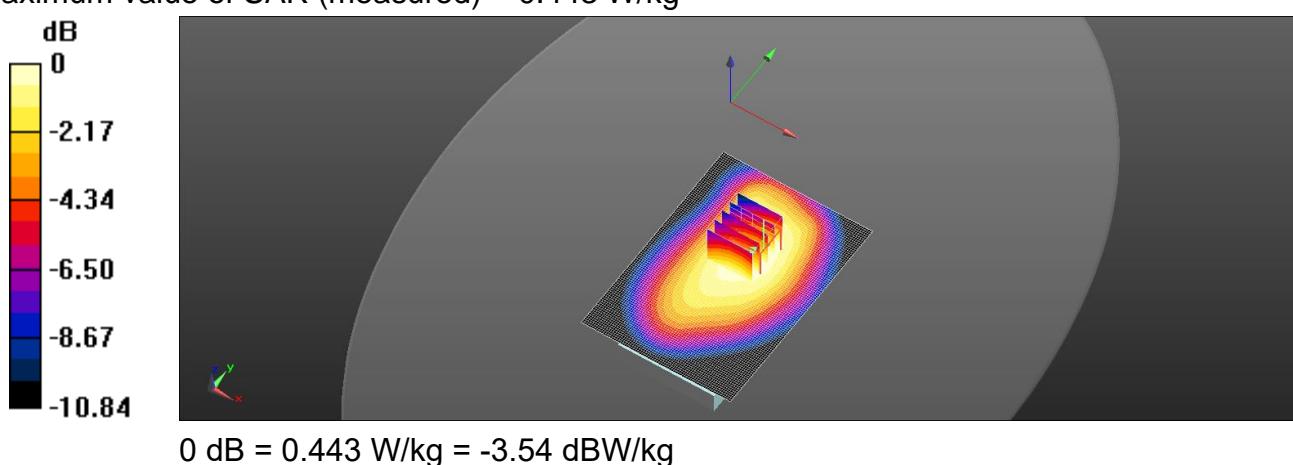
Peak SAR (extrapolated) = 0.474 W/kg

SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.286 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 = 80.5%

Maximum value of SAR (measured) = 0.443 W/kg



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Date: 2025/6/17

ID: 006**Report No. :TESA2506000467ES****LTE Band 12 (10MHz)_Body_Front Surface_CH 23095_QPSK_1-0_10mm_Ant 1**

Communication System: LTE; Frequency: 707.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 41.299$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(9.75, 8.9, 9.05) @ 707.5 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.583 W/kg

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

Reference Value = 26.76 V/m; Power Drift = -0.13 dB

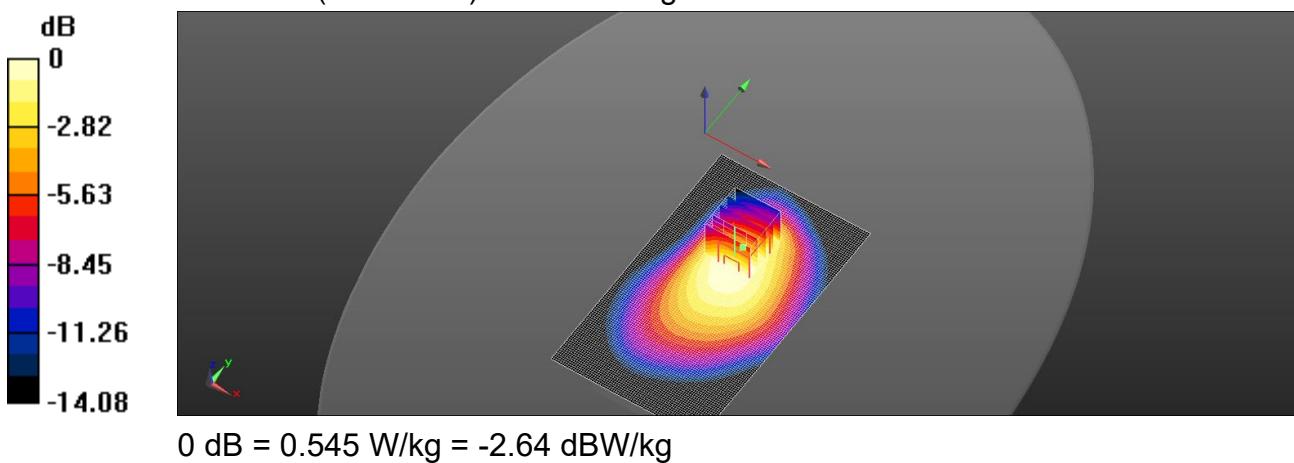
Peak SAR (extrapolated) = 0.610 W/kg

SAR(1 g) = 0.446 W/kg; SAR(10 g) = 0.312 W/kg

Smallest distance from peaks to all points 3 dB below = 20 mm

Ratio of SAR at M2 to SAR at M1 = 74.4%

Maximum value of SAR (measured) = 0.545 W/kg



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Date: 2025/6/17

ID: 007**Report No. :TESA2506000467ES****LTE Band 5 (10MHz)_Body_Front Surface_CH 20525_QPSK_1-0_10mm_Ant 2**

Communication System: LTE; Frequency: 836.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 40.905$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(9.6, 8.76, 8.9) @ 836.5 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.422 W/kg

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

Reference Value = 22.49 V/m; Power Drift = -0.12 dB

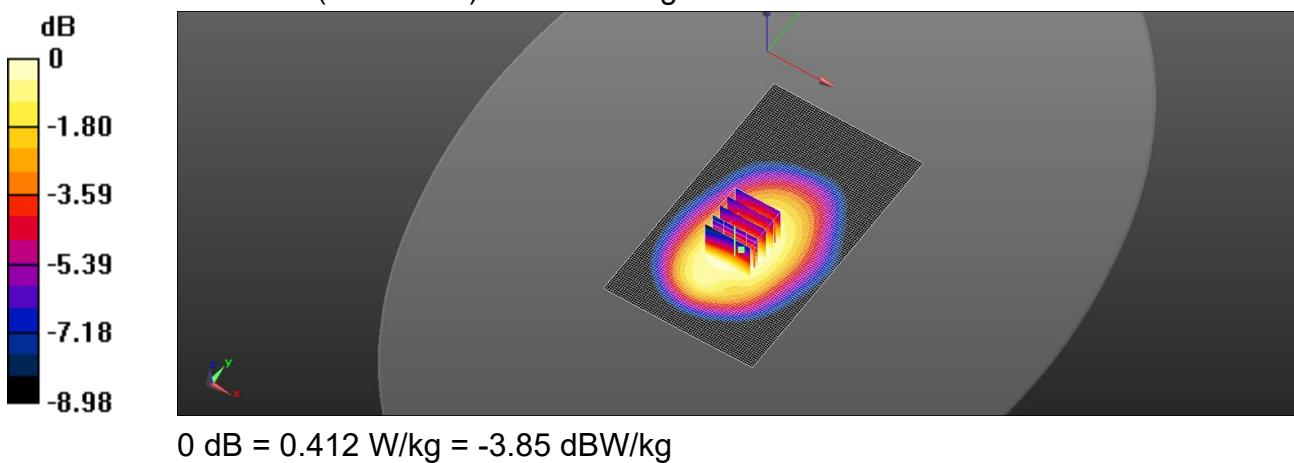
Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.270 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 = 76.9%

Maximum value of SAR (measured) = 0.412 W/kg



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Date: 2025/6/17

ID: 008**Report No. :TESA2506000467ES****LTE Band 12 (10MHz)_Body_Front Surface_CH 23095_QPSK_1-0_10mm_Ant 2**

Communication System: LTE; Frequency: 707.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 41.299$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(9.75, 8.9, 9.05) @ 707.5 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.186 W/kg

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

Reference Value = 14.36 V/m; Power Drift = -0.08 dB

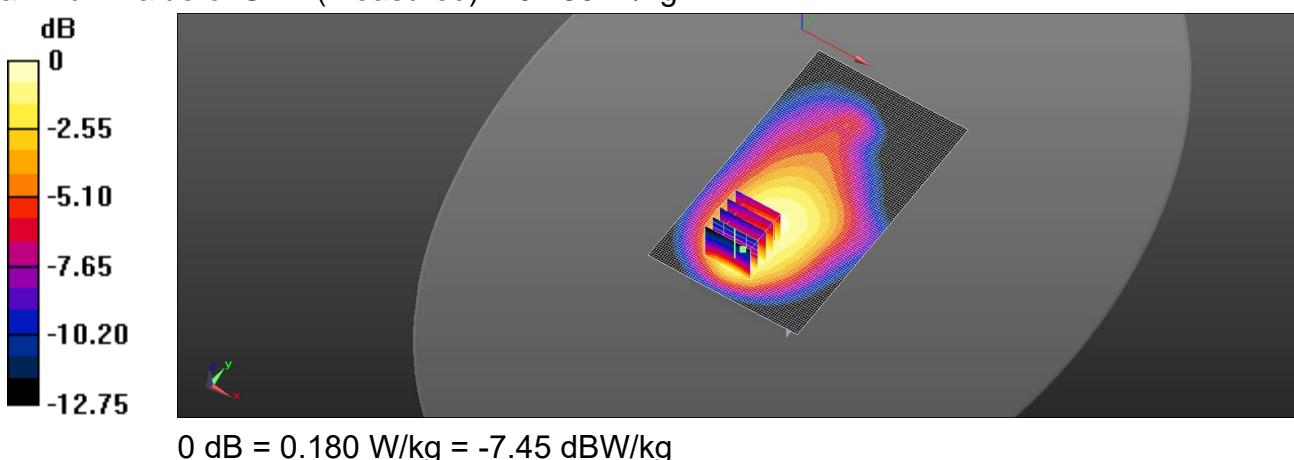
Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.089 W/kg

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 0.180 W/kg



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Date: 2025/6/18

ID: 009**Report No. :TESA2506000467ES****LTE Band 2 (20MHz)_Body_Front Surface_CH 18900_QPSK_1-0_10mm_Ant 3**

Communication System: LTE; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 39.297$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.85, 7.16, 7.28) @ 1880 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.48 W/kg

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

Reference Value = 25.83 V/m; Power Drift = 0.01 dB

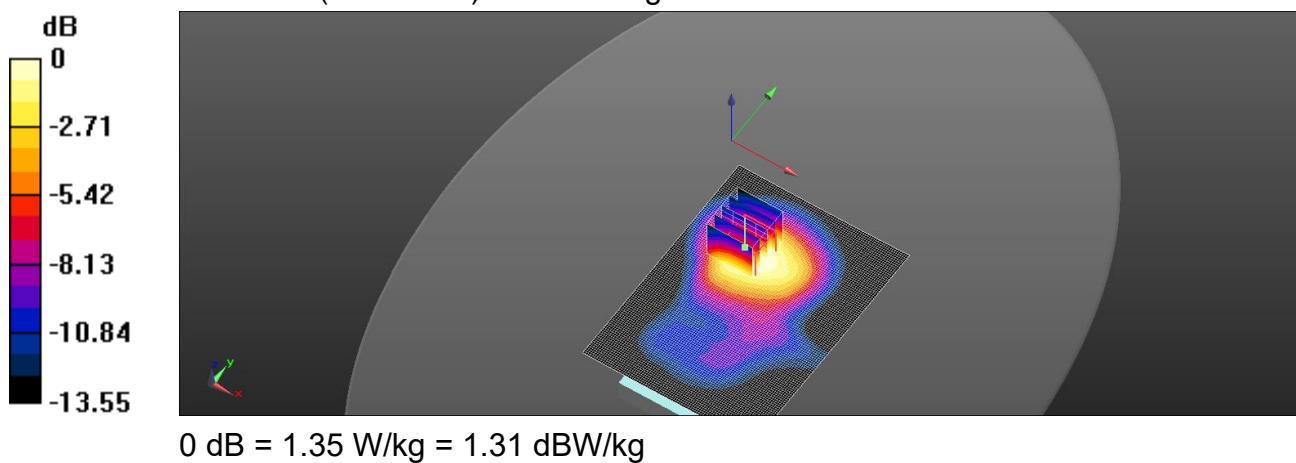
Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.615 W/kg

Smallest distance from peaks to all points 3 dB below = 16.1 mm

Ratio of SAR at M2 to SAR at M1 = 64.3%

Maximum value of SAR (measured) = 1.35 W/kg



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Date: 2025/6/18

ID: 010**Report No. :TESA2506000467ES****LTE Band 4 (20MHz)_Body_Front Surface_CH 20300_QPSK_1-0_10mm_Ant 3**

Communication System: LTE; Frequency: 1745 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.352$ S/m; $\epsilon_r = 39.465$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(8.34, 7.61, 7.73) @ 1745 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.51 W/kg

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

Reference Value = 27.47 V/m; Power Drift = -0.01 dB

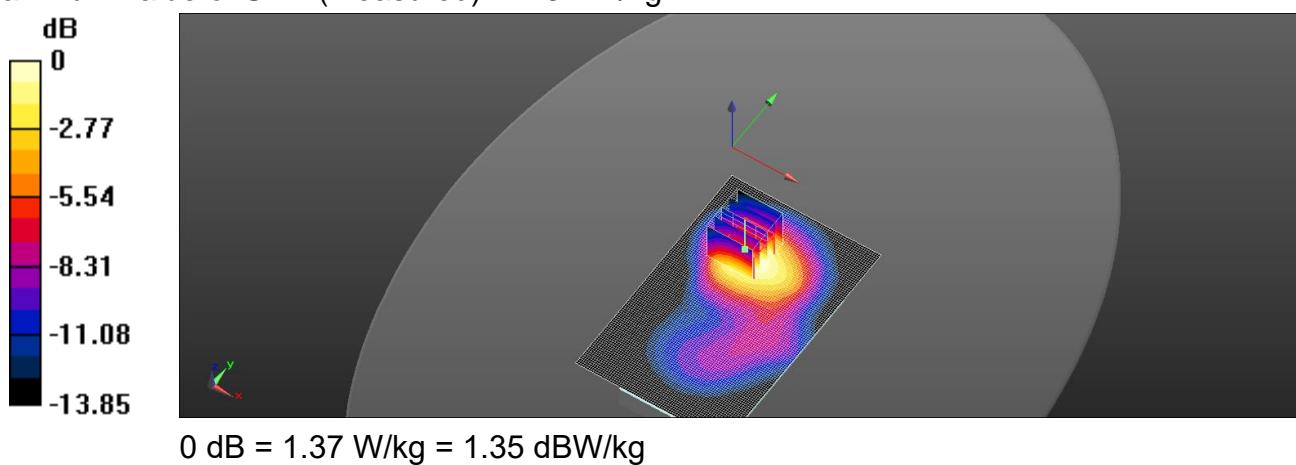
Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.639 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 64.1%

Maximum value of SAR (measured) = 1.37 W/kg



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ID: 011

Report No. :TESA2506000467ES

LTE Band 41 (20MHz)_Body_Front Surface_CH 41490_QPSK_1-0_10mm_PC3_Ant 3

Communication System: LTE; Frequency: 2680 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.03$ S/m; $\epsilon_r = 38.022$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.22, 6.59, 6.69) @ 2680 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.61 W/kg

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

Reference Value = 23.83 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.551 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 1.57 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.83 V/m; Power Drift = -0.09 dB

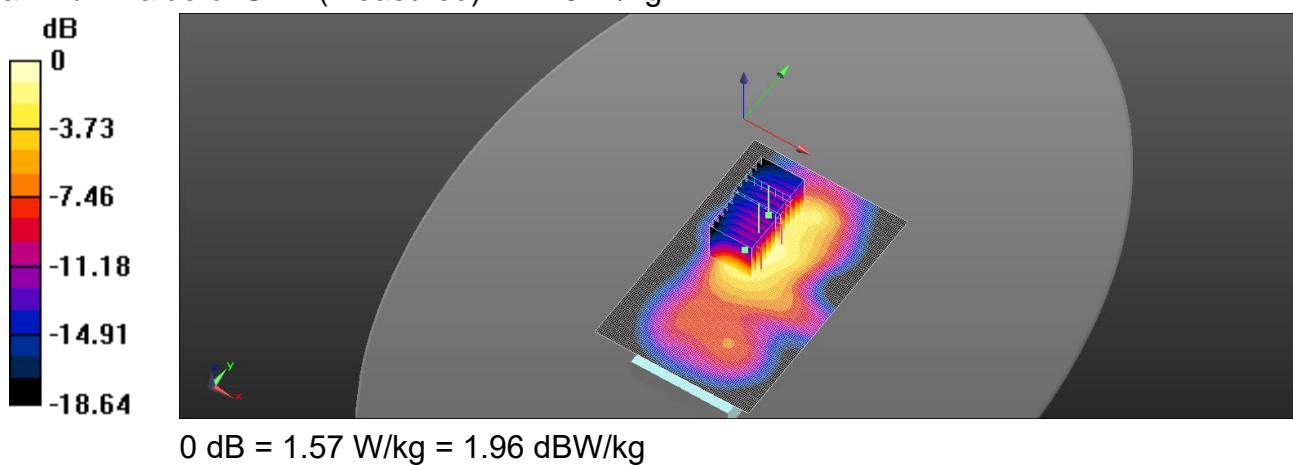
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.513 W/kg

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 1.20 W/kg



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Date: 2025/6/19

ID: 012**Report No. :TESA2506000467ES****WLAN 802.11b_Body_Front Surface_CH 11_10mm_WLAN 0**

Communication System: WLAN; Frequency: 2462 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 38.332$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2462 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.397 W/kg

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

Reference Value = 13.89 V/m; Power Drift = -0.02 dB

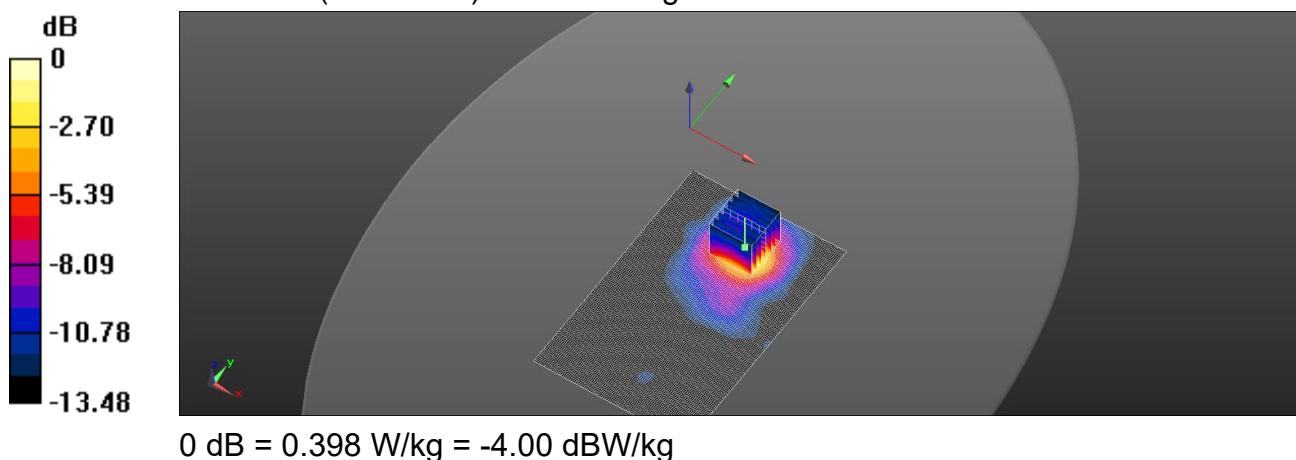
Peak SAR (extrapolated) = 0.475 W/kg

SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.137 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.398 W/kg



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Date: 2025/6/19

ID: 013**Report No. :TESA2506000467ES****WLAN 802.11b_Body_Front Surface_CH 11_10mm_WLAN 1**

Communication System: WLAN; Frequency: 2462 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 38.332$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2462 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x141x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.420 W/kg

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

Reference Value = 12.27 V/m; Power Drift = 0.08 dB

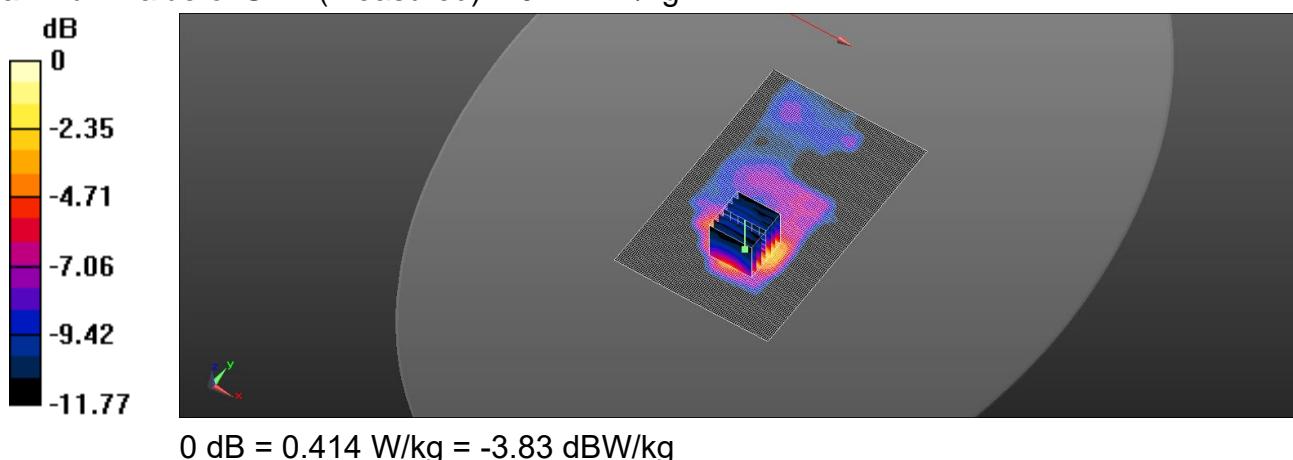
Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.148 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 0.414 W/kg



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12 SAR SYSTEM CHECK RESULTS

Date: 2025/6/17

Report No. :TESA2506000467ES**Dipole 750 MHz_SN:1015**

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

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 41.051$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(9.75, 8.9, 9.05) @ 750 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x161x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 2.31 W/kg

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

Reference Value = 56.67 V/m; Power Drift = 0.02 dB

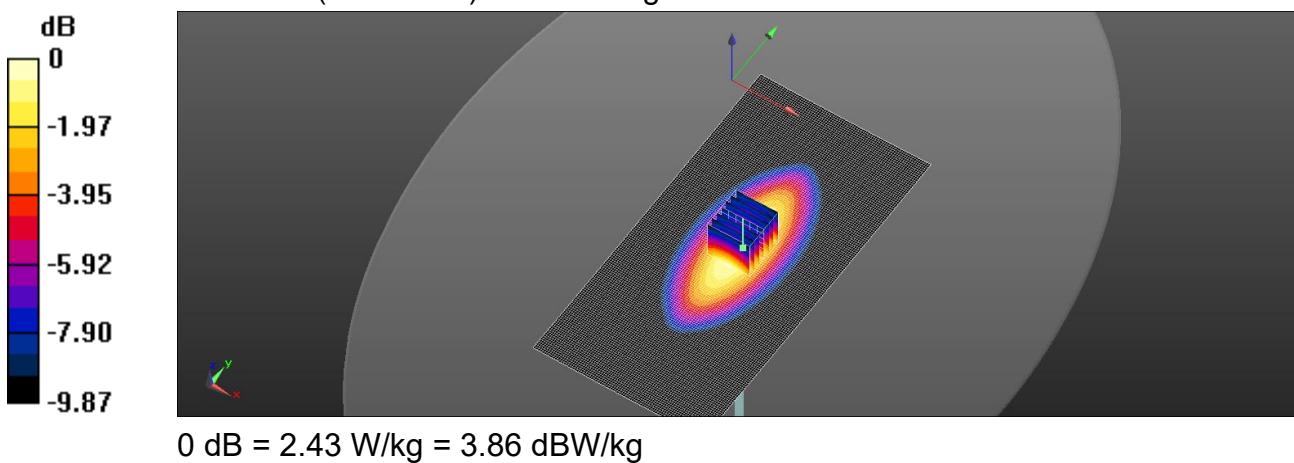
Peak SAR (extrapolated) = 2.82 W/kg

SAR(1 g) = 1.98 W/kg; SAR(10 g) = 1.35 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%

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



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Report No. :TESA2506000467ES**Dipole 835 MHz_SN:4d063**

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.889 \text{ S/m}$; $\epsilon_r = 40.928$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(9.6, 8.76, 8.9) @ 835 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- 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) = 2.87 W/kg

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

Reference Value = 58.82 V/m; Power Drift = 0.01 dB

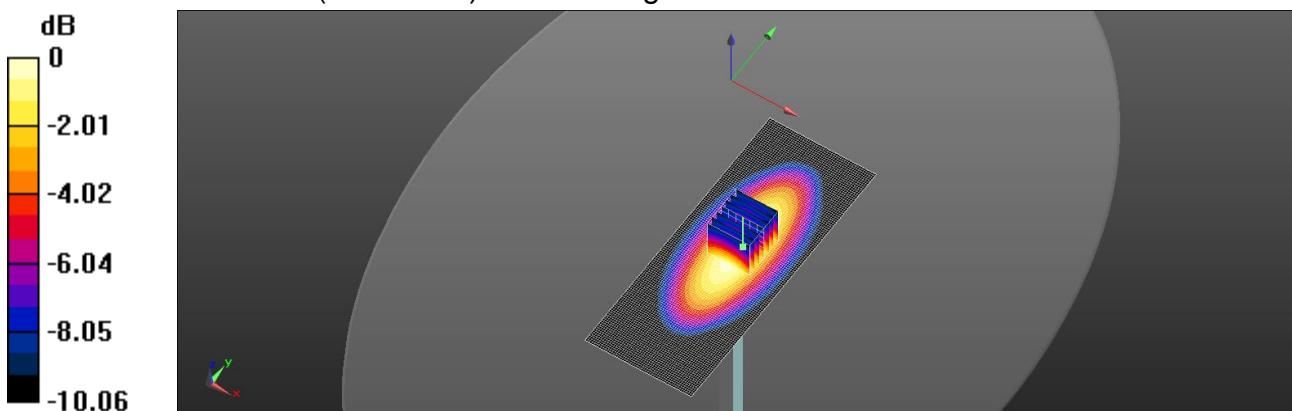
Peak SAR (extrapolated) = 3.40 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.58 W/kg

Smallest distance from peaks to all points 3 dB below = 21.9 mm

Ratio of SAR at M2 to SAR at M1 = 68.5%

Maximum value of SAR (measured) = 2.92 W/kg



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Report No. :TESA2506000467ES**Dipole 1750 MHz_SN:1008**

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

Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.355 \text{ S/m}$; $\epsilon_r = 39.43$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(8.34, 7.61, 7.73) @ 1750 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

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

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

Reference Value = 95.14 V/m; Power Drift = 0.02 dB

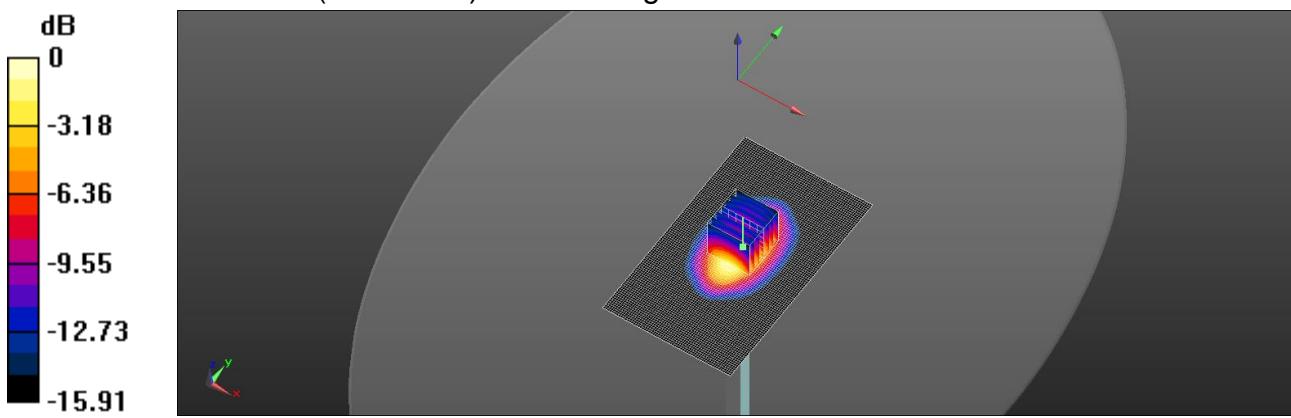
Peak SAR (extrapolated) = 15.8 W/kg

SAR(1 g) = 8.99 W/kg; SAR(10 g) = 4.87 W/kg

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

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

Maximum value of SAR (measured) = 12.6 W/kg



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Report No. :TESA2506000467ES**Dipole 2000 MHz_SN:1015**

Communication System: CW; Frequency: 2000 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2000$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.191$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.81, 7.13, 7.24) @ 2000 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- 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) = 13.8 W/kg

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

Reference Value = 96.59 V/m; Power Drift = 0.10 dB

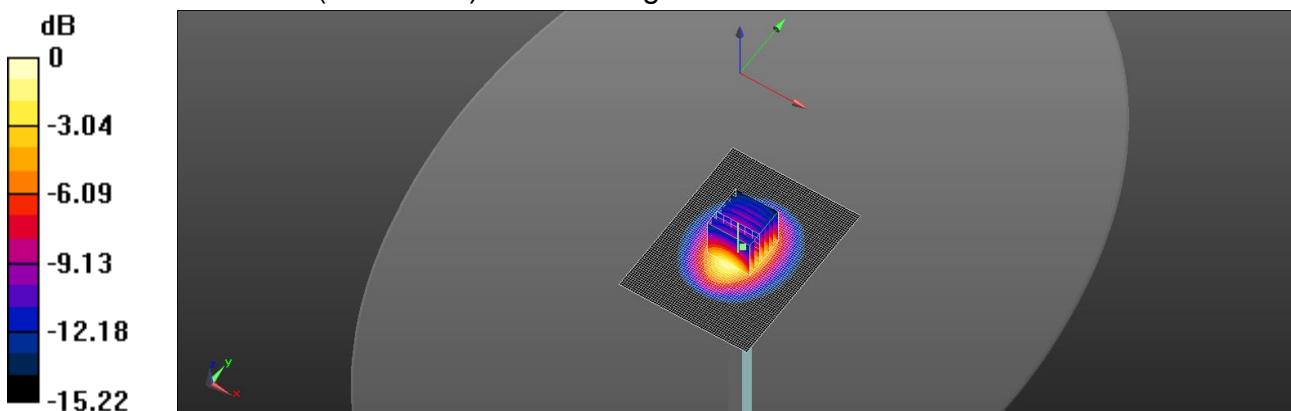
Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.65 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 63.8%

Maximum value of SAR (measured) = 13.7 W/kg



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Date: 2025/6/19

Report No. :TESA2506000467ES**Dipole 2450 MHz SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.785$ S/m; $\epsilon_r = 38.379$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.29, 6.66, 6.76) @ 2450 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

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

Reference Value = 84.86 V/m; Power Drift = -0.01 dB

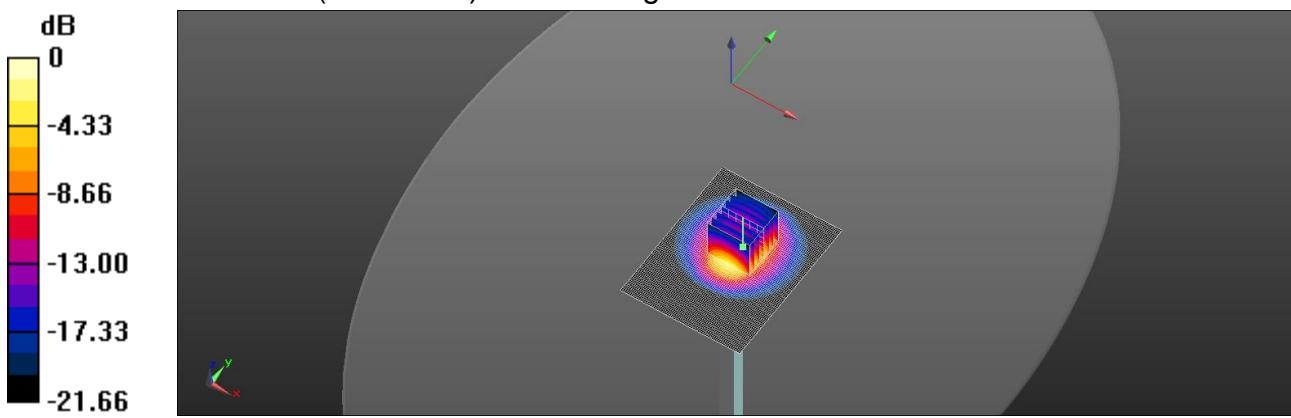
Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.99 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 20.5 W/kg



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Report No. :TESA2506000467ES**Dipole 2600 MHz_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.942 \text{ S/m}$; $\epsilon_r = 38.132$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7823; ConvF(7.22, 6.59, 6.69) @ 2600 MHz; Calibrated: 2024/7/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2025/1/16
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 22.8 W/kg

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

Reference Value = 96.80 V/m; Power Drift = -0.02 dB

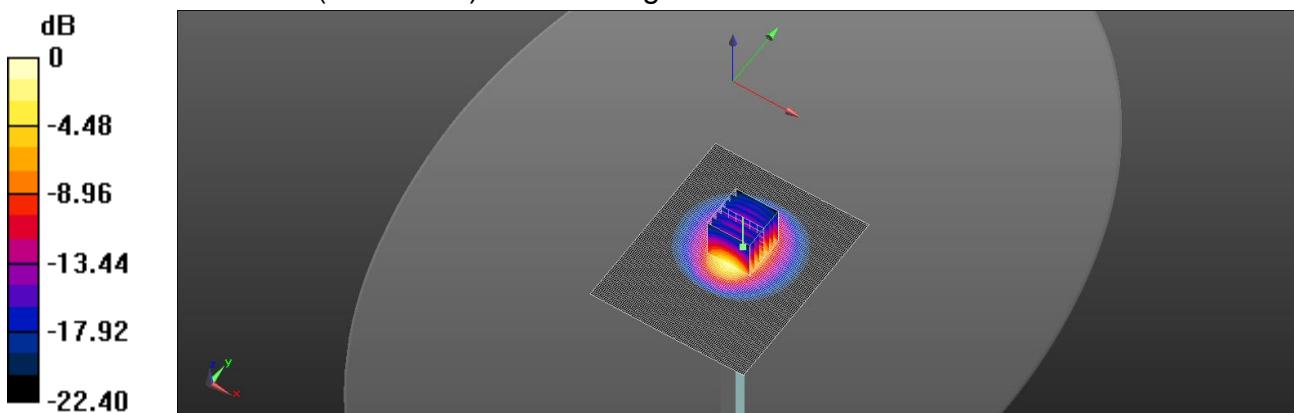
Peak SAR (extrapolated) = 29.2 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.56 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 48.5%

Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg = 13.34 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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13 APPENDICES

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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