DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España
C.I.F. A29 507 456

Test report No:
NIE: 72146RAN.001

Test report
IEEE Std 1528™-2013

(*) Identification of item tested	CPAP Device
(*) Trademark	ResMed
(*) Model and /or type reference tested	37089 AirSense10
(*) Derived model not tested	See Declaration of Equivalence (page 4)
(*) Other identification of the product	HW version: R379-7135 SW version: SX558 FCC ID: 2ACHL-AIR104GU IC: 9103A-AIR104GU
(*) Features	4G, 3G, 2G
Manufacturer	ResMed Pty Ltd 1 Elizabeth Macarthur Drive, Bella Vista, NSW, 2153 Australia
Test method requested, standard	1. IEEE Std 1528™-2013: 2. FCC 47 CFR Part 2.1093.
Summary	Considering the results of the performed test, the item under test is IN COMPLIANCE with FCC 47CFR Part 2.1093 exposure limits. The maximum 1g volume averaged SAR found during this test have been 1.21 W/kg, for GPRS 850 MHz 3 slots mode.
Approved by (name / position & signature)	Miguel Lacave Antennas Lab Manager  2022.07.26 11:05:00 +02'00'
Date of issue	2022-07-25
Report template No	FDT08_24 (*) "Data provided by the client"

Index

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Uncertainty

Uncertainty (factor k=2) was calculated according to the following documents:

1. DEKRA Testing and Certification S.A.U. internal document PODT000.
2. FCC OET KDB 865664 D01 - SAR Measurement Requirements for 100 MHz to 6 GHz v01r04 (August 2015).

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested", “Other identification of the product”, “Features” and “Test sample description”).

2. Maximum output power and testing distance information.

3. Derived model not tested. These models have been declared by the supplier of the sample as being the same as the model under test.

ResMed
Changing lives with every breath

Date: 13-May-2022

DECLARATION OF EQUIVALENCE

This document declares that the following designated products are equivalent to the unit under test **37089**.

Model Name / Product Code	Marketing Name
37158	AirSense 10 CPAP
37159	AirSense 10 Elite
37160	AirSense 10 AutoSet
37161	AirSense 10 AutoSet FH
37162	AirCurve 10 ASV
37163	AirCurve 10 S
37164	AirCurve 10 VAuto
37165	AirCurve 10 ST

All the above stated products have the same cellular hardware and firmware.

Applicant:
Company Name: ResMed Pty Ltd
Address: 1 Elizabeth Macarthur Drive,
Bella Vista NSW 2153
Australia

By,

Christopher Jenkins

Christopher Jenkins
Title: Associate Manager – Systems Engineering
Company: ResMed Pty Ltd
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ResMed Pty Ltd 1 Elizabeth Macarthur Drive, Bella Vista NSW 2153, Australia
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DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested", “Other identification of the product”, “Features” and “Test sample description”).

2. Maximum output power and testing distance information.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: the client

Sample M/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
72146/013	CPAP Device	37089 AirSense10	22221362875	2022/05/09
72146/004	AC/DC adapter	370006	-	2022/05/09

Sample M/02 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
72146/001	CPAP Device	37089 AirSense10	22221362833	2022/05/09
72146/004	AC/DC adapter	370006	-	2022/05/09

1. Sample M/01 has undergone the test(s) specified in subclause “Test method requested”: Conducted average output power.
2. Sample M/02 has undergone the test(s) specified in subclause “Test method requested”: SAR evaluation for 2G, 3G and LTE.

Test sample description

Description of product ..... :	CPAP device with integrated cellular connectivity			
Software version..... :	SX558			
Hardware version ..... :	R379-7135			
Mounting position ..... :	☒	Table top equipment		
	☐	Wall/Ceiling mounted equipment		
	☐	Equipment used next to the ear		
	☐	Hand-held equipment		
	☐	Other: Body-worn device		
Accessories (not part of the test item)..... :	Description		Type	Manufacturer
	Charging adapter		---	
	USB cable		---	

Identification of the client

ResMed Pty Ltd

1 Elizabeth Macarthur Drive, Bella Vista, NSW, 2153, Australia

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2022-06-17
Date (finish)	2022-07-13

Document history

Report number	Date	Description
72146RAN.001	2022-07-25	First release

Environmental conditions

Date	Max. Temp. ºC	Min. Temp. ºC	Max. Hum. %	Min. Hum. %	Limit
From 2022-06-17 to 2022-07-13	24.97	20.60	65.02	36.16	18-25 ºC, 30-70%

Remarks and comments

1. Testing of GPRS EDGE mode is not required according to test reductions mentioned in FCC OET KDB 941225 D01 3G SAR Procedures, paragraph “5. GSM, GPRS and EDGE”
2. Testing of HSDPA/HSPA/HSPA+/DC-HSPA modes are not required according to paragraph “2.1 3G SAR test reduction procedure” mentioned in FCC OET KDB 941225 D01 3G SAR Procedures.
3. Zoom scan is not required according to FCC OET KDB 447498 D01 General RF Exposure Guidance 06, paragraph “4.4.2. Area scan based 1-g estimation”.
4. The device is a top-table device and its Bottom edge will be always facing a table, therefore this device edge has not been tested due to testing reduction.
5. Zoom scan and/or power drifts measurements have not been able to be performed by the measurement system due to very low SAR values close to or under the noise level.
6. Only the plots of the highest reported SAR for each test position and mode/band are included in appendix C.
7. The tests have been performed by the technical personnel: Francisco J. Sánchez and Ismael Gamarro.
8. The instrumentation utilized to perform the tests covered in this test report is listed in the following table:

Equipment	NC
Dosimetric E-field probe SPEAG EX3DV4	6125
Dosimetric E-field probe SPEAG ES3DV3	3431
Data acquisition device SPEAG DAE4	3430
Data acquisition device SPEAG DAE4	8876
SPEAG Mounting Device for Laptop and Body-Worn Transmitters	3526
Oval flat phantom SPEAG ELI 4 V8.0	9168
Electro-optical converter SPEAG SE UMS 018 BB	8902
Robot Stäubli TX60L	8867
Robot controller STÄUBLI CS8C	8894
Measurement server SPEAG DASY6 SE UMS 028 CA	8895
SAR measurement software SPEAG cDASY6 16.0.0.116	8898
Head Tissue Equivalent Liquid for 750 MHz band	3920
Body Tissue Equivalent Liquid for 750 MHz band	3921
Head Tissue Equivalent Liquid for 850 MHz band	3631
Body Tissue Equivalent Liquid for 850 MHz band	3632
Head Tissue Equivalent Liquid for 900 MHz band	3631
Body Tissue Equivalent Liquid for 900 MHz band	3632
Head Tissue Equivalent Liquid for 1700 MHz band	6028
Body Tissue Equivalent Liquid for 1700 MHz band	6029
Head Tissue Equivalent Liquid for 1900 MHz band	8844
Body Tissue Equivalent Liquid for 1900 MHz band	8845
Head Tissue Equivalent Liquid for 2600 MHz band	4173
Body Tissue Equivalent Liquid for 2600 MHz band	3637
750 MHz dipole validation kit SPEAG D750V3	3919
900 MHz dipole validation kit SPEAG D900V2	3426
1800 MHz dipole validation kit SPEAG D1800V2	3427
2600 MHz dipole validation kit SPEAG D2600V2	3527
Vector network analyzer Agilent FieldFox N9923A	4482
Dielectric probe kit SPEAG DAK-3.5	4171
SPEAG DAK software V1.10.325.10	4859
RF Generator R&S SMU200	3346
Power amplifier MITEQ AMF-4D-00400600-50-30P	3485
DC Power supply Agilent U8002A	4835
Dual directional coupler HP 778D	1084
Dual directional coupler NARDA 4227-16	3630
Power sensor Agilent E9300A	4391
Power sensor Agilent E9300A	4392
Power meter Agilent E4419B	4393
Power sensor DC 50 MHz to 18 GHz R&S model NRP-Z81	4164
Digital thermometer LKM Electronics model DTM300-Spezial	4170
Temperature and humidity probe HUMIDIPROBE Pico Technology	3453
Wideband Radio Communication Tester R&S CMW 500	4948

9. References

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093 and the following FCC Published RF exposure KDB procedures:

- FCC OET KDB 447498 D01 General RF Exposure Guidance v06 (October 2015)
- FCC OET KDB 865664 D01 - SAR Measurement Requirements for 100 MHz to 6 GHz v01r04 (August 2015).
- FCC OET KDB 865664 D02 RF Exposure Reporting v01r02 (October 2015)
- FCC OET KDB 941225 D01 3G SAR Procedures v03r01 (October 2015).
- FCC OET KDB 941225 D05 SAR for LTE Devices v02r05 (October 2015).

Testing verdicts

Not applicable :	N/A
Pass :	P
Fail :	F
Not measured :	N/M

Summary

FCC 47CFR Part 2.1093	VERDICT			
	N/A	P	F	NM
GSM 850		P		
GSM 1900		P		
WCDMA II		P		
WCDMA V		P		
LTE 2		P		
LTE 4		P		
LTE 5		P		
LTE 7		P		
LTE 12		P		
LTE 13		P		
LTE 26		P		
LTE 38		P		
LTE 41		P		

Appendix A: Test configuration

Index

1. GENERAL INTRODUCTION

1.1. Application Standard

The Federal Communications Commission (FCC) sets the limits for General Population/Uncontrolled exposure to radio frequency electromagnetic fields for transmitting devices designed to be used within 20 centimetres of the body of the user under FCC 47 CFR Part 2.1093 - "Radiofrequency radiation exposure evaluation: portable devices", paragraph (d)(2).

1.2. General requirements

The SAR measurement has been performed continuing the following considerations and environment conditions:

The ambient temperature shall be in the range of 18ºC to 25ºC and the variation shall not exceed +/-2ºC during the test.

The ambient humidity shall be in the range of and 30% - 70%.

The device battery shall be fully charged before each measurement.

1.3. Measurement system requirements

The measurement system used for SAR tests fulfills the procedural and technical requirements described at the reference standards used.

1.4. Phantom requirements

The phantom model for body measurements is an elliptical open-top container with a flat bottom, with the following shape and dimensions:

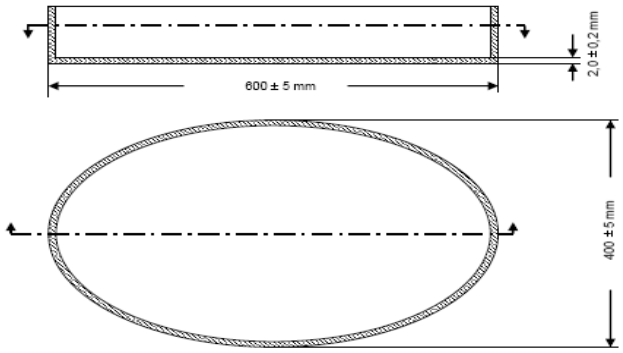


Figure 1: Proportions and shape of Phantom shell

1.5. Measurement Liquids requirements

The liquids used to simulate the human tissues, must fulfill the requirements of the dielectric properties required. These target dielectric properties are indicated into FCC OET KDB 865664 D01 Appendix A.

Frequency (MHz)	Head		Body	
	ε_r	σ (S/m)	ε_r	σ (S/m)
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

Table 1: Liquid material requirements

To minimize the effect of reflections on peak spatial-average SAR values, from the upper surface of the tissue equivalent liquid, the depth of the liquid should be at least 15 cm.

Dielectric porperties values of the Tissue Simulant Liquids used for SAR measurements are included in Appendix B, Section 3, of this document.

2. MEASUREMENT SYSTEM

2.1. Measurement System

The DASY6 system for performing compliance tests consists of the following items:

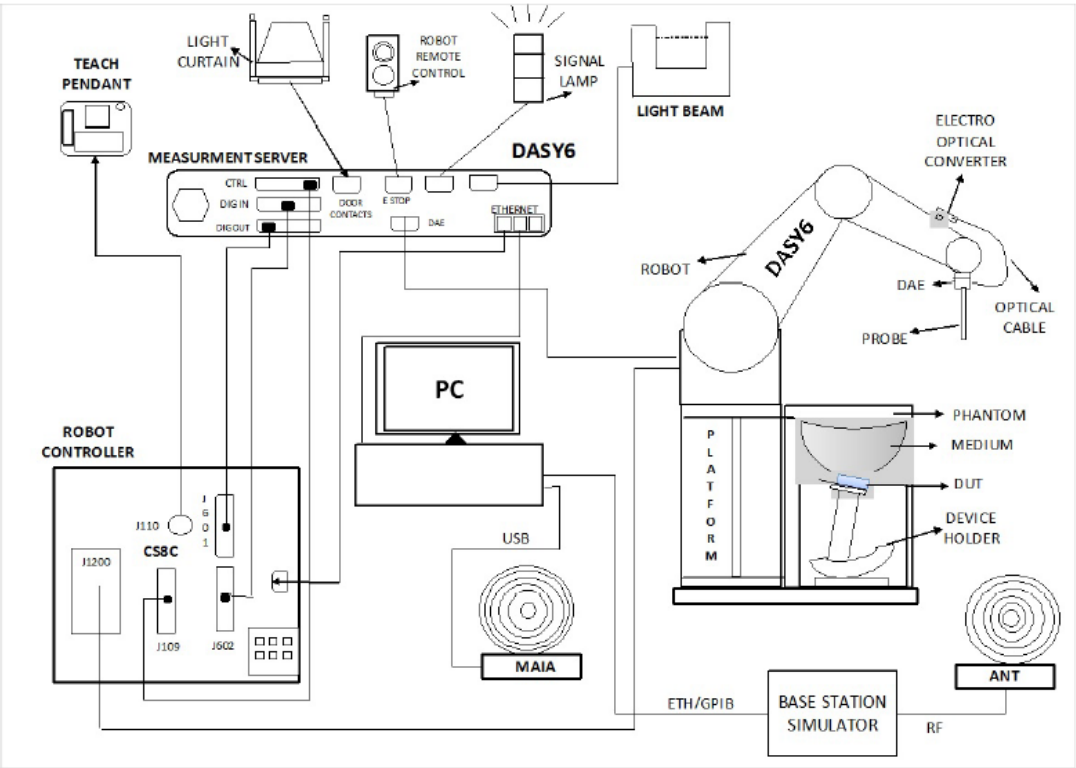
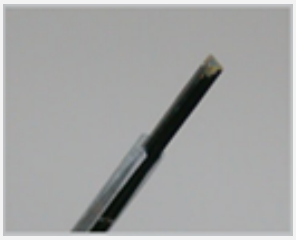


Figure 2: SAR Measurement system

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

	Model	EX3DV4
	**Construction**	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).
	Frequency	10 MHz to > 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
	Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
	Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
	Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1.0 mm

	Model	ES3DV3
	**Construction**	Symmetrical design with triangular core. Interleaved sensors. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).
	Frequency	10 MHz to 4 GHz; Linearity: ± 0.2 dB (30 MHz to 4 GHz)
	Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)
	Dynamic Range	5 µW/g to > 100 mW/g Linearity: ± 0.2 dB
	Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm

	Model	DAE4
	**Construction**	Signal amplifier, multiplexer, A/D converter, and control logic. Serial optical link communication with DASY4/5 embedded system (fully remote controlled). Two-step probe touch detector for mechanical surface detection and emergency robot stop.
	Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)
	Input Offset Voltage	< 5 µV (with auto zero)
	Input Resistance	200 MOhm
	Input Blas Current	< 50 fA

	Model	ELI
	**Construction**	Phantom 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.
	Material	Vinylester, glass fiber reinforced (VE-GF)
	Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
	Shell Thickness	2 ± 0.2 mm (bottom plate)
	Dimensions	Major axis: 600 mm, Minor axis: 400 mm
	Filling Volume	Approx. 30 liters
	Wooden Support	SPEAG standard phantom table

	Model	Mounting Device for Laptop and Body-Worn Transmitters
	**Construction**	In combination with the Twin SAM V5.0/V5.0c or ELI Phantoms, the Mounting Device (Body-worn) enables testing of transmitters devices according to IEC 62209-2 specifications. The device holder can be locked for positioning at flat phantom section.
	Material	Polyoxymethylene (POM), PET-G, Foam

Model	System Validations Kits 450 MHz – 6 GHz
Construction	Symmetrical dipole with I/4 balun. Enables measurement of feedpoint impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.
Frequency	450 MHz to 5800 MHz
Return Loss	20 dB at specified validation position

Dimensions (length and overall height in mm)

Product	Dipole length	Overall height
D450V3	290.0	330.0
D750V3	179.0	330.0
D900V2	148.5	340.0
D1800V2	72.5	300.0
D2000V2	65.0	300.0
D2300V2	56.3	290.0
D2450V2	52.0	290.0
D2600V2	49.2	290.0
D3300V2	38.0	285.0
D3500V2	37.0	285.0
D3700V2	34.7	285.0
D3900V2	32.0	280.0
D4200V2	30.1	280.0
D4600V2	27.0	280.0
D4900V2	25.0	280.0
D5GHzV2	20.6	300.0

2.2. Device Holder

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source in 5mm distance, a positioning uncertainty of ±0.5mm would produce a SAR uncertainty of ±20%. An accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions, in which the devices must be measured, are defined by the standards.

The DASY Laptop Holder extension is lightweight and made of POM, PET-G acrylic glass and foam. It fits easily on the upper part of the Mounting Device in place of the Dipol positioner. The extension is fully compatible with the Twin-SAM and ELI phantoms.

2.3. Test Positions of device relative to head and body

The device under test consists of a continuous Positive Airway Pressure (CPAP) Device which could be used near the head and body of the user placed on a bedside table.

Although it will be used normally at higher distance from users, according to the manufacturer request, SAR testing has been performed at a consertvative test separation distance of 20 mm.

The Bottom edge of the device was not measured due to testing reduction based on device use and tests results found for the rest of device´s sides.

The back face of the device was measured at a minimum test distance of 45 mm due to mains cord.

All remaining device edges were tested facing the flat phantom at 20 mm testd distance, or 10 mm test distance if very low SAR test results were found at 20 mm test distance.

2.4. Test to be performed

Test shall be performed for each test position previously described, using the channel producing the highest rated output power.

Additionally the other applicable test frequency channels must be measured for the test configuration providing the highest SAR for each applicable transmitting band.

2.5. Description of interpolation/extrapolation scheme

The local SAR inside the Phantom is measured using small dipole sensing elements inside a probe element. The probe tip must not be in contact with the Phantoms surface in order to minimise measurement errors, but the highest local SAR is obtained from measurements at a certain distances from the shell trough extrapolation. The accurate assessment of the maximum SAR averaged over 10 gr. requires a very fine resolution in the three dimensional scanned data array. Since the measurements have to be performed over a limited time, the measured data have to be interpolated to provide an array of sufficient resolution.

The interpolation of 2D area scan is used after the initial area scan, at a fixed distance from the Phantom shell wall. The initial scan data is collected with approx. 15 mm spatial resolution and this interpolation is used to find the location of the local maximum for positioning the subsequent 3D scanning within a 1mm resolution.

For the 3D scan, data is collected on a spatially regular 3D grid having 5 mm steps in both directions. After the data collection by the SAR probe, the data are extrapolated in the depth direction to assign values to points in the 3D array closer to the shell wall. A notional extrapolation value is also assigned to the first point outside the shell wall so that subsequent interpolation schemes will be applicable right up to the shell wall boundary.

2.6. Determination of the largest peak spatial-average SAR

To determine the maximum value of the peak spatial-average SAR of a DUT, all device positions, configurations and operational modes should be tested for each frequency band.

The averaging volume shall be chosen as 1gr. of contiguous tissue. The cubic volumes, over which the SAR measurements are averaged after extrapolation and interpolation, are chosen in order to include the highest values of local SAR.

The maximum SAR level for the DUT will be the maximum level obtained of the performed measurements indicated in the previous points.

2.7. System Check

Prior to the SAR measurements, system verification is done daily to verify the system accuracy. As EN 62209-1 paragraph 6.1.2 “System Check” specifies, a complete SAR evaluation is done using a half-wavelength dipole as source with the frequency of the mid-band channel of the operating band, or within 10% of this channel.

The measured 1 gr. and 10 gr. SAR should be within 10% of the expected target values specified in the calibration certificate of the dipole, for the specific tissue and frequency used.

3. UNCERTAINTY

According to FCC OET KDB 865664 D01, if the highest measured 1-g SAR is < 1.5 W/kg, SAR measurement uncertainty analysis is not required to be included into SAR report, but it has been included for ISO 17025 accreditation.

ERROR SOURCES (source of uncertainty)	Uncertainty value (%)	Prob. Dist.	Div.	*ci (1g)*	*ci (10g)*	*Standard uncertainty (1g) (%)*	*Standard uncertainty (10g) (%)*
Measurement Equipment							
Probe Calibration	13.30%	N	2	1	1	6.65%	6.65%
Probe calibration drift	11.35%	R	√3	1	1	6.55%	6.55%
Axial Isotropy	4.70%	R	√3	0.7	0.7	1.90%	1.90%
Hemisfericall Isotropy	9.60%	R	√3	0.7	0.7	3.88%	3.88%
Boundary effect	1.00%	R	√3	1	1	0.58%	0.58%
Linearity	4.70%	R	√3	1	1	2.71%	2.71%
System Detection limits	0.25%	R	√3	1	1	0.14%	0.14%
Probe modulation response	4.80%	N	1	1	1	4.80%	4.80%
Readout electronics	0.30%	N	1	1	1	0.30%	0.30%
Response time	1.01%	R	√3	1	1	0.58%	0.58%
Integration time	2.60%	R	√3	1	1	1.50%	1.50%
RF Ambient noise	3.00%	R	√3	1	1	1.73%	1.73%
RF Ambient reflections	3.00%	R	√3	1	1	1.73%	1.73%
Probe positioner mech. restrictions	0.40%	R	√3	1	1	0.23%	0.23%
Probe positioning with respect to phantom shell	2.90%	R	√3	1	1	1.67%	1.67%
Max. SAR Eval.	2.00%	R	√3	1	1	1.15%	1.15%
Test Sample Related							
Device holder uncertainty	3.60%	N	1	1	1	3.60%	3.60%
Test sample positioning	2.90%	N	1	1	1	2.90%	2.90%
Drift of output power	2.50%	N	1	1	1	2.50%	2.50%
System Validation source (dipole)							
Deviation of experimental dipole from numerical dipole	0.00%	N	1	0	0	0.00%	0.00%
Input power and SAR drift measurement	2.00%	R	√3	1	1	1.15%	1.15%
Dipole axis to liquid distance	3.40%	R	√3	1	1	1.96%	1.96%
Phantom and Setup							
Phantom uncertainty (shape and thickness tolerances)	6.10%	R	√3	1	1	3.52%	3.52%
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.90%	N	1	1	0.84	1.90%	1.60%
Liquid conductivity (meas.)	2.45%	N	1	0.78	0.71	1.91%	1.74%
Liquid permittivity (meas.)	2.45%	N	1	0.26	0.26	0.64%	0.64%
Liquid conductivity – temperature uncertainty	2.30%	R	√3	0.78	0.71	1.04%	0.94%
Liquid permittivity – temperature uncertainty	0.36%	R	√3	0.23	0.26	0.05%	0.05%
Combined standard uncertainty (Validation antenna)	$u_c = \sqrt{\sum_{i=1}^{m} c_i^2 \cdot u_i^2}$					11.62%	11.54%
Expanded uncertainty (confidence interval of 95%)	*ue =2.00 uc*					**23.25%**	**23.09%**
Combined standard uncertainty (DUT)	$u_c = \sqrt{\sum_{i=1}^{m} c_i^2 \cdot u_i^2}$					14.08%	14.01%
Expanded uncertainty (confidence interval of 95%)	*ue =2.00 uc*					**28.16%**	**28.03%**

Table 2: Uncertainty Assessment for 300 MHz - 3 GHz.

4. SAR LIMIT

Having a worst-case measurement, the SAR limit is valid for general population/uncontrolled exposure.

The SAR values have to be averaged over a mass of 1 gr. (SAR 1 gr.) with the shape of a cube and averaged over a mass of 10 gr (Extremity SAR 10 gr). These levels could not exceed the values indicated in the application Standard:

Standard	Exposure	SAR	SAR Limit (W/kg)
FCC 47 CFR Part 1.1310, Paragraph (c)	General population/Uncontrolled	SAR 1-g.	1.6
FCC 47 CFR Part 1.1310, Paragraph (c)	General population/Uncontrolled Extremity	SAR 10-g.	4.0

Table 3: SAR limit

5. DEVICE UNDER TEST

5.1. Dimensions

Dimensions	Millimetres
Height x Width x Depth	116.0 x 255.0 x 150.0

Table 4: DUT dimensions

5.2. Wireless Technology

Wireless Technology	Frequency Bands	Modes
GSM	850/1900	GPRS and E-GPRS (GMSK, Multi-slot class 12)
W-CDMA	II//V	- UMTS Rel. 99 - HSDPA (Rel. 5) - HSPA (Rel. 6) - HSPA+ (Rel. 7)
LTE	2/4/5/7/12/13//26/38/41	QPSK and 16-QAM (Rel. 9)

Table 5: Supported modes

5.3. Simultaneous Transmission

The device does not support simultaneous transmission.

5.4. Antenna Location

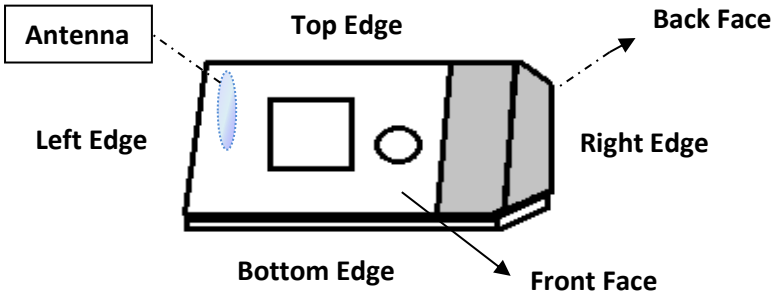


Figure 3: Antenna location sketch.

Appendix B: Test results

Index

1. TEST CONDITIONS

1.1. Power supply (V):

Type of power supply = 90W AC Adapter.

1.2. Temperature (ºC):

Tn = +20.00 to +25.00
The subscript n indicates normal test conditions.

1.3. DUT information and test-site configurations

For all supported modes, the DUT was placed with each face and edge position against the flat phantom surface, except the bottom edge of the device due to testing reduction.

The separation distance between DUT and flat phantom surface was 45 mm for the back face of the device due to mains cord, and 20-10 mm for the remaining faces/edges.

1.4. Test signal, Output Power and Frequencies

The sample was put into operation by using an R&S CMW 500 as base station simulator. The output power of the device was set to Power Control Level (PCL) maximum for all tests.

In all operating bands and test positions, the measurements were performed on middle, lowest and highest channels.

The actual SAR sample does not have accessible antenna connectors for conducted measurements, so the conducted average output power was measured using others identical samples (M/01) provided by the manufacturer with auxiliary external connectors that makes the measurements representative and applicable for all the tested samples. See 'usage of samples' paragraph of this report.

The maximum conducted time-averaged power of the device for each mode was measured with a power sensor R&S NRP-Z81.

The target power alignments, including tune-up tolerance, for RF components declared by the manufacturer for each supported technology are:

Mode	Burst Averaged Output Power (dBm)				Frame Averaged Output Power (dBm)			
	1 Tx slot	2 Tx slots	3 Tx slots	4 Tx slots	1 Tx slot	2 Tx slots	3 Tx slots	4 Tx slots
GPRS/E-GPRS 850	33.5	33.5	31.70	30.50	24.47	27.48	27.44	27.49
GPRS/E-GPRS 1900	30.5	30.5	28.70	27.50	21.47	24.48	21.44	21.49

Maximum Output Power (dBm)		
WCDMA Band	II	V
Maximum	24.0	24.0

Maximum Output Power (dBm)									
LTE Band	2	4	5	7	12	13	26	38	40
Maximum	24.0	24.0	24.0	23.5	24.0	24.0	24.0	24.0	24.0

2. CONDUCTED AVERAGE POWER MEASUREMENTS

2.1. Cellular Antenna

2.1.1. GPRS/EGPRS Bands

- GPRS 850: For data mode. PCL 5, CS1 coding scheme and Gamma 3 were set to allow DUT's max power transmission for each slot.

GPRS 850 - Frame Average Output Power							
Channel Number	Frequency (MHz)	Power (dBm)				PCL	Modulation
		1 Slot	2 Slots	3 Slots	4 Slots		
128	824.2	23.05	26.21	27.22	27.21	5	GMSK-CS1
190	836.6	23.13	25.98	27.26	27.17	5	GMSK-CS1
251	848.8	23.29	26.11	27.40	27.23	5	GMSK-CS1

GPRS 850 - Average Burst Output Power							
Channel Number	Frequency (MHz)	Power (dBm)				PCL	Modulation
		1 Slot	2 Slots	3 Slots	4 Slots		
128	824.2	32.1	32.2	31.5	30.2	5	GMSK-CS1
190	836.6	32.2	32.0	31.5	30.2	5	GMSK-CS1
251	848.8	32.3	32.1	31.7	30.2	5	GMSK-CS1

- EGPRS 850: For data mode. PCL 8, MCS5 coding scheme and Gamma 6 were set to allow DUT's max power transmission for each slot.

EDGE 850 - Frame Average Output Power							
Channel Number	Frequency (MHz)	Power (dBm)				PCL	Modulation
		1 Slot	2 Slots	3 Slots	4 Slots		
128	824.2	18.03	20.83	21.59	21.27	8	8PSK-MCS5
190	836.6	18.00	20.80	21.49	21.31	8	8PSK-MCS5
251	848.8	17.94	20.75	21.43	21.30	8	8PSK-MCS5

EDGE 850 - Average Burst Output Power							
Channel Number	Frequency (MHz)	Power (dBm)				PCL	Modulation
		1 Slot	2 Slots	3 Slots	4 Slots		
128	824.2	27.1	26.9	25.9	24.3	8	8PSK-MCS5
190	836.6	27.0	26.8	25.8	24.3	8	8PSK-MCS5
251	848.8	27.0	26.8	25.7	24.3	8	8PSK-MCS5

- GPRS 1900: For data mode. PCL 0, CS1 coding scheme and Gamma 3 were set to allow max power transmission for each slot.

GPRS 1900 - Frame Average Output Power							
Channel Number	Frequency (MHz)	Power (dBm)				PCL	Modulation
		1 Slot	2 Slots	3 Slots	4 Slots		
512	1850.2	20.21	22.97	24.37	24.32	0	GMSK-CS1
661	1880.0	20.12	22.91	24.23	24.20	0	GMSK-CS1
810	1909.8	19.92	22.72	24.15	24.11	0	GMSK-CS1

GPRS 1900 - Average Burst Output Power							
Channel Number	Frequency (MHz)	Power (dBm)				PCL	Modulation
		1 Slot	2 Slots	3 Slots	4 Slots		
512	1850.2	29.2	29.0	28.6	27.3	0	GMSK-CS1
661	1880.0	29.2	28.9	28.5	27.2	0	GMSK-CS1
810	1909.8	29.0	28.7	28.4	27.1	0	GMSK-CS1

- EGPRS 1900: For data mode, PCL 2, MCS5 coding scheme and Gamma 5 were set to allow max power transmission for each slot.

EDGE 1900 - Frame Average Output Power							
Channel Number	Frequency (MHz)	Power (dBm)				PCL	Modulation
		1 Slot	2 Slots	3 Slots	4 Slots		
512	1850.2	16.92	19.79	20.51	20.35	2	8PSK-MCS5
661	1880.0	16.72	19.62	20.39	20.22	2	8PSK-MCS5
810	1909.8	16.59	19.48	20.20	19.95	2	8PSK-MCS5

EDGE 1900 - Average Burst Output Power							
Channel Number	Frequency (MHz)	Power (dBm)				PCL	Modulation
		1 Slot	2 Slots	3 Slots	4 Slots		
512	1850.2	26.0	25.8	24.8	23.4	2	8PSK-MCS5
661	1880.0	25.8	25.6	24.7	23.2	2	8PSK-MCS5
810	1909.8	25.6	25.5	24.5	23.0	2	8PSK-MCS5

2.1.2. WCDMA/HSDPA/HSPA/HSPA+ Bands

- <u>WCDMA:</u> The DUT supports power Class 3, with a nominal maximum output power of 24 dBm. Tests were completed according to 3GPP TS34.121, section 5.

Mode	Subtest	Rel99
WCDMA	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2Kbps RMC
	Power Control Algorithm	Algorithm2
	βc/βd	8/15

Band	Mode	Channel Number	Frequency (MHz)	Average Output Power (dBm)
FDD II 1900	WCDMA	9262	1852.4	23.25
FDD II 1900	WCDMA	9400	1880.0	23.03
FDD II 1900	WCDMA	9538	1907.6	23.01

Band	Mode	Channel Number	Frequency (MHz)	Average Output Power (dBm)
FDD V 850	WCDMA	4132	826.4	23.63
FDD V 850	WCDMA	4182	836.4	23.56
FDD V 850	WCDMA	4233	846.6	23.48

- HSDPA:

Mode	Subtest	1	2	3	4
HSDPA	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2Kbps RMC			
	HSDPA FRC	H-Set1			
	HSUPA Test	HSUPA Loopback			
	Power Control Algorithm	Algorithm 2			
	βc	2/15	12/15	15/15	15/15
	βd	15/15	15/15	8/15	4/15
	Bd (SF)	64	64	64	64
	βc/βd	2/15	12/15	15/8	15/4
	βhs	4/15	24/15	30/15	30/15
	MPR	0	0	0.5	0.5
	Dack	8			
	Dnak	8			
	Ack-Nack repetition factor	3			
	DCQI	8			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	Ahs =βhs/βc	30/15			

Band	Mode	Channel Number	Frequency (MHz)	Average Output Power (dBm)			
				Subtest			
				1	2	3	4
FDD II 1900	HSDPA	9262	1852.4	22.28	22.26	21.67	21.75
FDD II 1900	HSDPA	9400	1880.0	21.98	21.94	21.50	21.46
FDD II 1900	HSDPA	9538	1907.6	21.76	21.71	21.30	21.31

Band	Mode	Channel Number	Frequency (MHz)	Average Output Power (dBm)			
				Subtest			
				1	2	3	4
FDD V 850	HSDPA	4132	826.4	22.56	22.48	21.99	21.99
FDD V 850	HSDPA	4182	836.4	22.38	22.31	21.83	21.79
FDD V 850	HSDPA	4233	846.6	22.37	22.24	21.78	21.70

- HSPA:

Mode	Subtest	1	2	3	4	5
HSPA	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2Kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm 2				
	βc	11/15	6/15	15/15	2/15	15/15
	βd	15/15	15/15	9/15	15/15	15/15
	βec	209/225	12/15	30/15	2/15	24/15
	βc/βd	11/15	6/15	15/9	2/15	15/15
	βhs	22/15	12/15	30/15	4/15	30/15
	βed	1309/225	94/75	47/15	56/75	134/15
	MPR (dB)	0	2	1	2	0
	Dack	8				
	Dnak	8				
	Ack-Nack repetition factor	3				
	DCQI	8				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	Ahs =βhs/βc	30/15				
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL DataRate Kbps	242.1	174.9	482.8	205.8	308.9

Band	Mode	CH	Frequency (MHz)	Average Output Power (dBm)				
				Subtest				
				1	2	3	4	5
FDD II 1900	HSPA	9262	1852.4	22.17	21.73	22.05	22.03	21.75
FDD II 1900	HSPA	9400	1880.0	21.97	21.49	21.87	21.80	21.59
FDD II 1900	HSPA	9538	1907.6	21.98	21.44	21.93	21.91	21.54

Band	Mode	CH	Frequency (MHz)	Average Output Power (dBm)				
				Subtest				
				1	2	3	4	5
FDD V 850	HSPA	4132	826.4	22.42	21.97	22.37	22.34	22.05
FDD V 850	HSPA	4182	836.4	22.40	21.92	22.36	22.34	22.01
FDD V 850	HSPA	4233	846.6	22.50	21.85	22.39	22.41	21.95

- HSPA+

Mode	Subtest	1
HSPA+	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2Kbps RMC
	HSDPA FRC	H-Set1
	HSUPA Test	HSUPA Loopback
	Power Control Algorithm	Algorithm 2
	βc	1
	βd	0
	βec	30/15
	βhs	30/15
	βed (2xSF2)	βed1: 30/15
		βed2: 30/15
	βed (2xSF4)	βed3: 24/15
		βed4: 24/15
	CM (dB)	3.5
	MPR (dB)	2.5
	D E-DPCCH	7
	AG Index	14
	ETFCI	105

Band	Mode	Channel Number	Frequency (MHz)	Average Output Power (dBm)
FDD II 1900	HSPA+	9262	1852.4	22.33
FDD II 1900	HSPA+	9400	1880.0	22.26
FDD II 1900	HSPA+	9538	1907.6	22.03

Band	Mode	Channel Number	Frequency (MHz)	Average Output Power (dBm)
FDD V 850	HSPA+	4132	826.4	22.58
FDD V 850	HSPA+	4182	836.4	22.52
FDD V 850	HSPA+	4233	846.6	22.50

2.1.3. LTE Bands

LTE MPR is permanently implemented for the device. A-MPR was disabled for all SAR tests. The following power reductions are used for higher RB allocations and 16-QAM modulation:

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

- LTE B2

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1860.0 MHz	**1880.0 MHz**	**1900.0 MHz**
LTE B2	20 MHz	QPSK	1RB Low	0	22.56	22.31	22.49
			1RB Mid	0	22.91	22.78	23.04
			1RB High	0	22.42	22.32	22.58
			50% Low	1	21.73	21.81	21.88
			50% Mid	1	21.75	21.67	21.85
			50% High	1	21.58	21.61	21.56
			100%	1	21.65	21.69	21.67
		16-QAM	1RB Low	1	21.47	21.35	21.57
			1RB Mid	1	21.77	21.48	21.68
			1RB High	1	21.44	21.39	21.64
			50% Low	2	20.91	20.97	20.83
			50% Mid	2	20.72	20.81	20.76
			50% High	2	20.76	20.83	20.70
			100%	2	20.67	20.74	20.61
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1857.5 MHz	**1880.0 MHz**	**1902.5 MHz**
LTE B2	15 MHz	QPSK	1RB Low	0	22.54	22.63	22.71
			1RB Mid	0	22.93	22.96	22.91
			1RB High	0	22.50	22.49	22.66
			50% Low	1	21.72	21.80	21.75
			50% Mid	1	21.73	21.69	21.75
			50% High	1	21.58	21.56	21.66
			100%	1	21.62	21.74	21.81
		16-QAM	1RB Low	1	21.52	21.40	21.57
			1RB Mid	1	21.68	21.64	21.53
			1RB High	1	21.57	21.36	21.48
			50% Low	2	20.98	20.82	20.84
			50% Mid	2	20.81	20.76	20.81
			50% High	2	20.70	20.67	20.79
			100%	2	20.73	20.59	20.61

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1855.0 MHz	**1880.0MHz**	**1905.0 MHz**
LTE B2	10 MHz	QPSK	1RB Low	0	22.61	22.72	22.85
			1RB Mid	0	22.81	22.88	23.14
			1RB High	0	22.59	22.65	22.73
			50% Low	1	21.75	21.86	21.87
			50% Mid	1	21.73	21.76	21.83
			50% High	1	21.57	21.64	21.66
			100%	1	21.58	21.69	21.68
		16-QAM	1RB Low	1	21.45	21.70	21.74
			1RB Mid	1	21.37	21.64	21.91
			1RB High	1	21.41	21.49	21.85
			50% Low	2	20.67	20.56	20.68
			50% Mid	2	20.71	20.64	20.77
			50% High	2	20.69	20.72	20.79
			100%	2	20.52	20.68	20.70
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1852.5 MHz	**1880.0 MHz**	**1907.5 MHz**
LTE B2	5 MHz	QPSK	1RB Low	0	22.32	22.05	22.27
			1RB Mid	0	22.50	22.18	22.59
			1RB High	0	22.38	22.15	22.48
			50% Low	1	21.61	21.47	21.64
			50% Mid	1	21.68	21.54	21.67
			50% High	1	21.61	21.53	21.54
			100%	1	21.63	21.50	21.46
		16-QAM	1RB Low	1	21.17	21.86	21.45
			1RB Mid	1	21.36	21.76	21.64
			1RB High	1	21.21	21.03	21.29
			50% Low	2	21.58	21.43	21.55
			50% Mid	2	20.72	20.53	20.64
			50% High	2	20.76	20.49	20.47
			100%	2	20.89	20.47	20.40

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1851.5 MHz	**1880.0 MHz**	**1908.5 MHz**
LTE B2	3 MHz	QPSK	1RB Low	0	22.56	22.25	22.65
			1RB Mid	0	22.51	22.65	22.62
			1RB High	0	22.52	22.43	22.50
			50% Low	1	22.71	22.51	22.68
			50% Mid	1	21.80	21.56	21.57
			50% High	1	21.65	21.63	21.46
			100%	1	21.68	21.53	21.55
		16-QAM	1RB Low	1	22.09	22.04	21.44
			1RB Mid	1	21.74	21.71	21.89
			1RB High	1	21.70	21.54	21.88
			50% Low	2	22.17	22.01	21.86
			50% Mid	2	20.75	20.71	20.91
			50% High	2	20.70	20.81	20.67
			100%	2	20.64	20.58	20.76
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1850.7 MHz	**1880.0 MHz**	**1909.3 MHz**
LTE B2	1.4 MHz	QPSK	1RB Low	0	22.73	22.40	22.53
			1RB Mid	0	22.80	22.38	22.74
			1RB High	0	22.95	22.37	22.55
			50% Low	1	22.79	22.42	22.71
			50% Mid	1	22.79	22.42	22.62
			50% High	1	22.76	22.50	22.66
			100%	1	21.74	21.66	21.56
		16-QAM	1RB Low	1	21.78	21.90	21.66
			1RB Mid	1	21.66	21.73	22.04
			1RB High	1	21.48	21.43	21.90
			50% Low	2	22.65	22.43	22.58
			50% Mid	2	21.68	21.34	21.19
			50% High	2	21.77	21.33	21.21
			100%	2	20.82	20.45	20.28

- **LTE B4**

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1720.0 MHz	**1732.5 MHz**	**1745.0 MHz**
LTE B4	20 MHz	QPSK	1RB Low	0	22.43	22.42	22.48
			1RB Mid	0	22.91	23.02	22.81
			1RB High	0	22.47	22.33	22.38
			50% Low	1	21.84	21.74	21.81
			50% Mid	1	21.72	21.81	21.74
			50% High	1	21.70	21.63	21.61
			100%	1	21.64	21.69	21.71
		16-QAM	1RB Low	1	21.48	21.58	21.57
			1RB Mid	1	21.56	21.64	21.59
			1RB High	1	21.52	21.61	21.62
			50% Low	2	20.92	20.86	20.87
			50% Mid	2	20.86	20.81	20.81
			50% High	2	20.77	20.79	20.73
			100%	2	20.64	20.58	20.59
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1717.5 MHz	**1732.5 MHz**	**1747.5 MHz**
LTE B4	15 MHz	QPSK	1RB Low	0	22.53	22.60	22.56
			1RB Mid	0	22.82	23.11	22.81
			1RB High	0	22.34	22.53	22.59
			50% Low	1	21.76	21.78	21.83
			50% Mid	1	21.76	21.72	21.67
			50% High	1	21.60	21.61	21.54
			100%	1	21.55	21.61	21.61
		16-QAM	1RB Low	1	21.59	21.75	21.72
			1RB Mid	1	21.70	21.62	21.64
			1RB High	1	21.46	21.57	21.59
			50% Low	2	20.81	20.95	20.86
			50% Mid	2	20.79	20.82	20.82
			50% High	2	20.64	20.87	20.79
			100%	2	20.57	20.67	20.58

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1715.0 MHz	**1732.5MHz**	**1750.0 MHz**
LTE B4	10 MHz	QPSK	1RB Low	0	22.67	22.61	22.51
			1RB Mid	0	22.87	22.98	22.76
			1RB High	0	22.63	22.41	22.53
			50% Low	1	21.84	21.81	21.68
			50% Mid	1	21.88	21.86	21.71
			50% High	1	21.75	21.74	21.56
			100%	1	21.73	21.80	21.61
		16-QAM	1RB Low	1	21.69	21.74	21.64
			1RB Mid	1	21.76	21.88	21.73
			1RB High	1	21.49	21.57	21.55
			50% Low	2	20.86	20.74	20.84
			50% Mid	2	20.87	20.76	20.82
			50% High	2	20.78	20.77	20.75
			100%	2	20.73	20.68	20.78
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1712.5 MHz	**1732.5MHz**	**1752.5 MHz**
LTE B4	5 MHz	QPSK	1RB Low	0	22.23	22.31	22.45
			1RB Mid	0	22.62	22.41	22.59
			1RB High	0	22.44	22.43	22.63
			50% Low	1	21.63	21.69	21.72
			50% Mid	1	21.65	21.75	21.65
			50% High	1	21.68	21.67	21.82
			100%	1	21.69	21.81	21.69
		16-QAM	1RB Low	1	21.20	21.45	21.48
			1RB Mid	1	21.44	21.71	21.74
			1RB High	1	21.35	21.65	21.59
			50% Low	2	21.60	21.49	21.54
			50% Mid	2	20.71	20.74	20.52
			50% High	2	20.63	20.76	20.59
			100%	2	20.71	20.61	20.63

Band	BW	Modulation	Mode	MPR	Average Output Power (dBm)		
					Low CH	Mid CH	High CH
					1711.5 MHz	1732.5MHz	1753.5 MHz
LTE B4	3 MHz	QPSK	1RB Low	0	22.66	22.57	22.36
			1RB Mid	0	22.56	22.74	22.63
			1RB High	0	22.70	22.63	22.50
			50% Low	1	22.63	22.69	22.45
			50% Mid	1	21.78	21.86	21.65
			50% High	1	21.65	21.75	21.60
			100%	1	21.61	21.70	21.62
		16-QAM	1RB Low	1	22.12	21.86	21.37
			1RB Mid	1	21.70	21.84	21.98
			1RB High	1	21.65	21.60	22.02
			50% Low	2	22.11	22.14	21.66
			50% Mid	2	20.82	21.11	20.73
			50% High	2	20.93	21.12	20.68
			100%	2	20.87	20.90	20.64
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					1710.7 MHz	**1732.5MHz**	**1754.3 MHz**
LTE B4	1.4 MHz	QPSK	1RB Low	0	22.72	22.40	22.34
			1RB Mid	0	22.95	22.56	22.51
			1RB High	0	22.94	22.55	22.44
			50% Low	1	22.75	22.54	22.52
			50% Mid	1	22.77	22.57	22.57
			50% High	1	22.58	22.59	22.67
			100%	1	21.68	21.80	21.67
		16-QAM	1RB Low	1	21.89	21.81	21.40
			1RB Mid	1	21.68	21.90	21.97
			1RB High	1	21.47	21.71	22.03
			50% Low	2	22.61	22.59	22.59
			50% Mid	2	21.64	21.81	21.66
			50% High	2	21.55	21.69	21.57
			100%	2	20.56	20.89	20.50

- **LTE B5**

Band	BW	Modulation	Mode	MPR	Average Output Power (dBm)		
					Low CH	Mid CH	High CH
					829.0 MHz	836.5 MHz	844.0 MHz
LTE B5	10 MHz	QPSK	1RB Low	0	22.95	22.94	22.88
			1RB Mid	0	23.19	23.23	23.16
			1RB High	0	22.93	22.94	22.82
			50% Low	1	22.00	22.15	22.05
			50% Mid	1	22.09	22.07	21.93
			50% High	1	22.04	22.03	21.82
			100%	1	22.03	22.08	21.81
		16-QAM	1RB Low	1	21.99	21.85	21.94
			1RB Mid	1	21.95	21.84	21.97
			1RB High	1	21.88	21.79	21.89
			50% Low	2	21.55	21.67	21.74
			50% Mid	2	21.48	21.48	21.65
			50% High	2	21.37	21.57	21.69
			100%	2	20.99	20.93	20.96
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					826.5 MHz	**836.5 MHz**	**846.5 MHz**
LTE B5	5 MHz	QPSK	1RB Low	0	22.73	22.60	22.56
			1RB Mid	0	22.94	22.90	23.27
			1RB High	0	22.83	22.52	22.93
			50% Low	1	22.04	22.00	21.87
			50% Mid	1	22.04	21.92	21.95
			50% High	1	21.94	22.00	21.98
			100%	1	21.85	21.94	21.74
		16-QAM	1RB Low	1	21.60	22.16	21.80
			1RB Mid	1	21.81	22.19	21.90
			1RB High	1	21.43	21.42	21.61
			50% Low	2	21.84	21.86	21.74
			50% Mid	2	21.08	20.93	20.95
			50% High	2	21.02	20.94	20.75
			100%	2	20.94	20.76	20.61

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					825.5 MHz	**836.5 MHz**	**847.4 MHz**
LTE B5	3 MHz	QPSK	1RB Low	0	22.92	22.72	22.65
			1RB Mid	0	23.17	23.07	23.01
			1RB High	0	22.96	22.76	22.85
			50% Low	1	22.90	22.89	22.78
			50% Mid	1	21.98	21.97	21.94
			50% High	1	22.03	21.98	21.89
			100%	1	21.95	22.03	21.85
		16-QAM	1RB Low	1	22.35	22.33	21.73
			1RB Mid	1	22.02	22.48	22.18
			1RB High	1	21.90	21.67	22.29
			50% Low	2	22.42	22.23	21.73
			50% Mid	2	21.01	21.30	20.93
			50% High	2	21.02	20.73	20.97
			100%	2	20.89	20.73	20.83
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					824.7 MHz	**836.5 MHz**	**848.2 MHz**
LTE B5	1.4 MHz	QPSK	1RB Low	0	23.10	22.62	22.74
			1RB Mid	0	23.06	22.78	23.02
			1RB High	0	23.00	22.79	22.90
			50% Low	1	23.11	22.85	22.72
			50% Mid	1	23.10	22.88	22.79
			50% High	1	23.07	22.82	22.90
			100%	1	22.00	21.93	21.90
		16-QAM	1RB Low	1	22.25	22.45	21.73
			1RB Mid	1	22.11	22.13	22.25
			1RB High	1	21.95	21.87	22.33
			50% Low	2	22.98	22.89	22.87
			50% Mid	2	22.11	21.84	21.92
			50% High	2	22.10	21.80	21.84
			100%	2	21.12	20.95	20.68

- **LTE B7**

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2510.0 MHz	**2535.0 MHz**	**2560.0 MHz**
LTE B7	20 MHz	QPSK	1RB Low	0	21.22	21.45	21.33
			1RB Mid	0	21.73	21.80	21.78
			1RB High	0	21.26	21.25	21.27
			50% Low	1	20.66	20.69	20.71
			50% Mid	1	20.50	20.60	20.57
			50% High	1	20.45	20.54	20.51
			100%	1	20.55	20.55	20.55
		16-QAM	1RB Low	1	20.34	20.42	20.32
			1RB Mid	1	20.63	20.65	20.48
			1RB High	1	20.47	20.34	20.37
			50% Low	2	20.07	20.06	20.12
			50% Mid	2	19.96	19.92	19.87
			50% High	2	19.95	19.89	19.94
			100%	2	19.77	19.76	19.82
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2507.5 MHz	**2535.0 MHz**	**2562.5 MHz**
LTE B7	15 MHz	QPSK	1RB Low	0	21.61	21.48	21.51
			1RB Mid	0	22.01	21.79	21.87
			1RB High	0	21.46	21.36	21.40
			50% Low	1	20.71	20.58	20.65
			50% Mid	1	20.65	20.45	20.61
			50% High	1	20.39	20.46	20.45
			100%	1	20.48	20.46	20.61
		16-QAM	1RB Low	1	20.76	20.79	20.71
			1RB Mid	1	20.68	20.64	20.67
			1RB High	1	20.69	20.62	20.72
			50% Low	2	20.16	20.27	20.19
			50% Mid	2	19.99	20.14	20.16
			50% High	2	19.94	20.17	20.08
			100%	2	19.75	19.91	19.95

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2505.0 MHz	**2535.0 MHz**	**2565.0 MHz**
LTE B7	10 MHz	QPSK	1RB Low	0	21.68	21.58	21.60
			1RB Mid	0	21.94	21.63	21.74
			1RB High	0	21.58	21.43	21.45
			50% Low	1	20.76	20.64	20.77
			50% Mid	1	20.73	20.56	20.66
			50% High	1	20.64	20.55	20.46
			100%	1	20.69	20.52	20.52
		16-QAM	1RB Low	1	20.84	20.80	20.74
			1RB Mid	1	20.65	20.61	20.76
			1RB High	1	20.51	20.46	20.69
			50% Low	2	20.22	20.27	20.14
			50% Mid	2	20.18	20.24	20.21
			50% High	2	20.11	20.07	20.22
			100%	2	19.97	19.87	19.79
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2502.5 MHz	**2535.0 MHz**	**2567.5 MHz**
LTE B7	5 MHz	QPSK	1RB Low	0	21.47	21.25	21.25
			1RB Mid	0	22.11	21.43	21.62
			1RB High	0	21.64	21.32	21.44
			50% Low	1	20.65	20.58	20.66
			50% Mid	1	20.72	20.57	20.67
			50% High	1	20.79	20.64	20.65
			100%	1	20.61	20.60	20.64
		16-QAM	1RB Low	1	20.29	20.72	20.47
			1RB Mid	1	20.65	20.77	20.71
			1RB High	1	20.40	20.15	20.34
			50% Low	2	20.53	20.45	20.49
			50% Mid	2	19.92	19.59	19.57
			50% High	2	19.99	19.61	19.50
			100%	2	19.73	19.48	19.54

- **LTE B12**

Band	BW	Modulation	Mode	MPR	Average Output Power (dBm)		
					Low CH	Mid CH	High CH
					-	707.5 MHz	-
LTE B12	10 MHz	QPSK	1RB Low	0	-	22.56	-
			1RB Mid	0	-	22.68	-
			1RB High	0	-	22.57	-
			50% Low	1	-	21.68	-
			50% Mid	1	-	21.67	-
			50% High	1	-	21.64	-
			100%	1	-	21.51	-
		16-QAM	1RB Low	1	-	21.34	-
			1RB Mid	1	-	21.72	-
			1RB High	1	-	21.48	-
			50% Low	2	-	20.79	-
			50% Mid	2	-	20.84	-
			50% High	2	-	20.69	-
			100%	2	-	20.58	-
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					701.5 MHz	**707.5 MHz**	**713.5 MHz**
LTE B12	5 MHz	QPSK	1RB Low	0	22.54	22.22	22.31
			1RB Mid	0	23.16	22.57	22.65
			1RB High	0	22.59	22.54	22.49
			50% Low	1	21.72	21.54	21.66
			50% Mid	1	21.70	21.56	21.59
			50% High	1	21.64	21.62	21.72
			100%	1	21.64	21.67	21.57
		16-QAM	1RB Low	1	21.28	21.92	21.37
			1RB Mid	1	21.66	22.23	21.66
			1RB High	1	21.35	21.32	21.43
			50% Low	2	21.63	21.51	21.54
			50% Mid	2	20.82	20.57	20.50
			50% High	2	20.70	20.66	20.46
			100%	2	20.71	20.39	20.46

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					700.5 MHz	**707.5 MHz**	**714.5 MHz**
LTE B12	3 MHz	QPSK	1RB Low	0	22.70	22.52	22.57
			1RB Mid	0	22.96	22.72	22.58
			1RB High	0	22.70	22.82	22.64
			50% Low	1	22.70	22.56	22.76
			50% Mid	1	21.95	21.59	21.78
			50% High	1	21.84	21.70	21.64
			100%	1	21.65	21.66	21.66
		16-QAM	1RB Low	1	22.20	22.20	21.76
			1RB Mid	1	21.81	22.18	22.03
			1RB High	1	21.80	21.53	21.96
			50% Low	2	22.05	22.05	21.89
			50% Mid	2	21.12	20.98	20.81
			50% High	2	21.17	21.06	20.75
			100%	2	20.80	20.80	20.75
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					699.7 MHz	**707.5 MHz**	**715.3 MHz**
LTE B12	1.4 MHz	QPSK	1RB Low	0	22.64	22.53	22.51
			1RB Mid	0	22.71	22.57	22.59
			1RB High	0	22.76	22.54	22.54
			50% Low	1	22.70	22.57	22.69
			50% Mid	1	22.82	22.55	22.63
			50% High	1	22.82	22.69	22.59
			100%	1	21.81	21.68	21.68
		16-QAM	1RB Low	1	22.04	21.88	21.59
			1RB Mid	1	21.91	21.70	22.10
			1RB High	1	21.80	21.64	22.13
			50% Low	2	22.96	22.58	22.73
			50% Mid	2	21.68	21.77	21.86
			50% High	2	21.61	21.96	21.63
			100%	2	20.82	20.90	20.66

- **LTE B13**

Band	BW	Modulation	Mode	MPR	Average Output Power (dBm)		
					Low CH	Mid CH	High CH
					-	782.0 MHz	-
LTE B13	10 MHz	QPSK	1RB Low	0	-	22.60	-
			1RB Mid	0	-	22.97	-
			1RB High	0	-	22.67	-
			50% Low	1	-	21.68	-
			50% Mid	1	-	21.79	-
			50% High	1	-	21.85	-
			100%	1	-	21.71	-
		16-QAM	1RB Low	1	-	21.71	-
			1RB Mid	1	-	21.75	-
			1RB High	1	-	21.64	-
			50% Low	2	-	20.94	-
			50% Mid	2	-	20.88	-
			50% High	2	-	20.71	-
			100%	2	-	20.64	-
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					779.5 MHz	**782.0 MHz**	**784.5 MHz**
LTE B13	5 MHz	QPSK	1RB Low	0	-	22.66	-
			1RB Mid	0	-	23.41	-
			1RB High	0	-	23.10	-
			50% Low	1	-	21.66	-
			50% Mid	1	-	21.92	-
			50% High	1	-	21.86	-
			100%	1	-	21.68	-
		16-QAM	1RB Low	1	-	21.49	-
			1RB Mid	1	-	21.83	-
			1RB High	1	-	21.40	-
			50% Low	2	-	21.54	-
			50% Mid	2	-	20.86	-
			50% High	2	-	20.77	-
			100%	2	-	20.58	-

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

- **LTE B26**

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					-	**831.5 MHz**	**-**
LTE B26	15 MHz	QPSK	1RB Low	0	-	22.95	-
			1RB Mid	0	-	23.39	-
			1RB High	0	-	22.87	-
			50% Low	1	-	22.22	-
			50% Mid	1	-	22.27	-
			50% High	1	-	22.06	-
			100%	1	-	22.09	-
		16-QAM	1RB Low	1	-	22.04	-
			1RB Mid	1	-	22.08	-
			1RB High	1	-	21.94	-
			50% Low	2	-	21.76	-
			50% Mid	2	-	21.58	-
			50% High	2	-	21.47	-
			100%	2	-	21.33	-
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					819.0 MHz	**831.5 MHz**	**844.0 MHz**
LTE B26	10 MHz	QPSK	1RB Low	0	23.04	22.99	22.92
			1RB Mid	0	23.35	23.46	23.29
			1RB High	0	22.82	23.02	22.88
			50% Low	1	22.23	22.28	22.11
			50% Mid	1	22.19	22.28	22.12
			50% High	1	21.98	22.25	22.10
			100%	1	22.07	22.18	22.02
		16-QAM	1RB Low	1	22.18	22.11	22.07
			1RB Mid	1	22.12	22.17	22.12
			1RB High	1	21.15	21.13	22.19
			50% Low	2	21.76	21.74	21.72
			50% Mid	2	21.69	21.66	21.69
			50% High	2	21.63	21.64	21.74
			100%	2	21.45	21.51	21.67

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					816.5 MHz	**831.5 MHz**	**846.5 MHz**
LTE B26	5 MHz	QPSK	1RB Low	0	22.94	22.68	22.59
			1RB Mid	0	23.26	23.31	23.19
			1RB High	0	23.09	23.03	22.83
			50% Low	1	22.18	22.04	22.02
			50% Mid	1	22.23	22.14	22.14
			50% High	1	22.31	22.27	22.02
			100%	1	22.18	22.06	21.95
		16-QAM	1RB Low	1	21.85	22.36	21.70
			1RB Mid	1	22.14	22.48	22.20
			1RB High	1	21.90	21.60	21.73
			50% Low	2	21.96	22.00	21.87
			50% Mid	2	21.17	21.22	21.12
			50% High	2	21.27	21.17	21.02
			100%	2	21.25	20.99	21.08
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					815.5 MHz	**831.5 MHz**	**847.5 MHz**
LTE B26	3 MHz	QPSK	1RB Low	0	22.96	22.91	22.93
			1RB Mid	0	23.22	23.30	22.99
			1RB High	0	23.09	23.13	22.87
			50% Low	1	23.03	22.84	22.97
			50% Mid	1	22.18	22.20	22.05
			50% High	1	22.25	22.27	21.98
			100%	1	22.23	22.14	22.00
		16-QAM	1RB Low	1	22.46	22.54	22.01
			1RB Mid	1	22.23	22.20	22.37
			1RB High	1	22.22	22.04	22.30
			50% Low	2	22.44	22.62	22.29
			50% Mid	2	21.23	21.63	21.20
			50% High	2	21.15	21.68	21.08
			100%	2	21.10	21.41	21.04
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					814.5 MHz	**831.5 MHz**	**848.3 MHz**
LTE B26	1.4 MHz	QPSK	1RB Low	0	23.36	22.82	22.74
			1RB Mid	0	23.27	23.00	22.83
			1RB High	0	23.28	23.03	22.73
			50% Low	1	23.07	22.99	22.80
			50% Mid	1	23.07	23.00	22.96
			50% High	1	23.12	23.01	22.96
			100%	1	22.15	22.09	22.00
		16-QAM	1RB Low	1	22.35	22.82	21.85
			1RB Mid	1	22.12	22.35	21.93
			1RB High	1	22.04	22.14	21.66
			50% Low	2	23.04	23.01	22.70
			50% Mid	2	22.03	22.34	21.98
			50% High	2	21.93	22.10	21.89
			100%	2	21.09	21.29	20.95

- **LTE B38**

To perform LTE TDD measurements, CMW LTE TDD options “Uplink Downlink Configuration” was set to “0” and “Special Subframe” was set to “7”.

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2580.0 MHz	**2595.0 MHz**	**2610.0 MHz**
LTE B38	20 MHz	QPSK	1RB Low	0	22.32	22.41	22.25
			1RB Mid	0	22.70	22.64	22.66
			1RB High	0	22.10	22.02	22.01
			50% Low	1	21.64	21.66	21.70
			50% Mid	1	21.80	21.72	21.78
			50% High	1	21.60	21.58	21.62
			100%	1	21.61	21.59	21.68
		16-QAM	1RB Low	1	21.54	21.62	21.75
			1RB Mid	1	21.51	21.57	21.64
			1RB High	1	21.42	21.55	21.59
			50% Low	2	20.79	20.67	20.74
			50% Mid	2	20.84	20.69	20.71
			50% High	2	20.76	20.61	20.66
			100%	2	20.59	20.53	20.65
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2577.5 MHz	**2595.0 MHz**	**2612.5 MHz**
LTE B38	15 MHz	QPSK	1RB Low	0	22.40	22.43	22.43
			1RB Mid	0	22.83	22.77	22.73
			1RB High	0	22.47	22.47	22.45
			50% Low	1	21.72	21.64	21.69
			50% Mid	1	21.84	21.58	21.74
			50% High	1	21.70	21.53	21.63
			100%	1	21.64	21.55	21.60
		16-QAM	1RB Low	1	21.69	21.63	21.39
			1RB Mid	1	21.58	21.61	21.61
			1RB High	1	21.56	21.65	21.55
			50% Low	2	20.67	20.71	20.61
			50% Mid	2	20.61	20.75	20.54
			50% High	2	20.57	20.79	20.62
			100%	2	20.51	20.64	20.49

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2575.0 MHz	**2595.0 MHz**	**2615.0 MHz**
LTE B38	10 MHz	QPSK	1RB Low	0	22.13	22.38	22.46
			1RB Mid	0	22.78	22.74	22.83
			1RB High	0	22.34	22.18	22.33
			50% Low	1	21.64	21.67	21.72
			50% Mid	1	21.82	21.69	21.75
			50% High	1	21.60	21.54	21.59
			100%	1	21.68	21.60	21.69
		16-QAM	1RB Low	1	21.31	21.29	21.37
			1RB Mid	1	21.45	21.37	21.45
			1RB High	1	21.48	21.41	21.39
			50% Low	2	20.72	20.71	20.65
			50% Mid	2	20.81	20.75	20.68
			50% High	2	20.75	20.79	20.71
			100%	2	20.55	20.57	20.62
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2572.5 MHz	**2595.0 MHz**	**2617.5 MHz**
LTE B38	5 MHz	QPSK	1RB Low	0	22.31	22.23	22.44
			1RB Mid	0	22.82	22.47	22.63
			1RB High	0	22.42	22.17	22.33
			50% Low	1	22.19	22.23	22.41
			50% Mid	1	21.59	21.62	21.72
			50% High	1	21.68	21.67	21.59
			100%	1	21.62	21.56	21.58
		16-QAM	1RB Low	1	21.49	21.61	21.56
			1RB Mid	1	21.56	21.63	22.11
			1RB High	1	21.26	20.95	21.46
			50% Low	2	21.60	21.94	21.88
			50% Mid	2	20.70	20.50	20.73
			50% High	2	20.70	20.33	20.58
			100%	2	20.75	20.46	20.62

- **LTE Band 41**

To perform LTE TDD measurements, CMW LTE TDD options “Uplink Downlink Configuration” was set to “0” and “Special Subframe” was set to “7”.

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2506 MHz	**2593.0MHz**	**2680.0 MHz**
LTE B41	20 MHz	QPSK	1RB Low	0	22.49	22.40	22.34
			1RB Mid	0	22.61	22.78	22.67
			1RB High	0	22.30	22.15	22.23
			50% Low	1	21.88	21.79	21.68
			50% Mid	1	21.90	21.79	21.61
			50% High	1	21.82	21.71	21.73
			100%	1	21.89	21.78	21.55
		16-QAM	1RB Low	1	21.61	21.68	21.62
			1RB Mid	1	21.40	21.61	21.68
			1RB High	1	21.57	21.64	21.59
			50% Low	2	21.08	21.01	20.94
			50% Mid	2	20.88	20.94	20.89
			50% High	2	20.94	20.91	20.93
			100%	2	20.49	20.67	20.66
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2503.5 MHz	**2593 MHz**	**2682.5 MHz**
LTE B41	15 MHz	QPSK	1RB Low	0	22.51	22.65	22.52
			1RB Mid	0	22.95	23.07	22.75
			1RB High	0	22.63	22.63	22.71
			50% Low	1	21.88	21.87	21.66
			50% Mid	1	21.87	21.81	21.73
			50% High	1	21.83	21.63	21.79
			100%	1	21.80	21.74	21.83
		16-QAM	1RB Low	1	21.57	21.57	21.52
			1RB Mid	1	21.62	21.64	21.61
			1RB High	1	21.53	21.51	21.58
			50% Low	2	20.84	20.76	20.71
			50% Mid	2	20.81	20.72	20.64
			50% High	2	20.87	20.76	20.68
			100%	2	20.57	20.52	20.59

					Average Output Power (dBm)		
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2501.0 MHz	**2593.0MHz**	**2685.0 MHz**
LTE B41	10 MHz	QPSK	1RB Low	0	22.47	22.44	22.62
			1RB Mid	0	23.04	22.94	22.76
			1RB High	0	22.62	22.47	22.63
			50% Low	1	21.84	21.87	21.63
			50% Mid	1	21.96	21.87	21.69
			50% High	1	21.76	21.87	21.65
			100%	1	21.81	21.72	21.69
		16-QAM	1RB Low	1	21.68	21.72	21.63
			1RB Mid	1	21.57	21.65	21.61
			1RB High	1	21.69	21.71	21.68
			50% Low	2	20.67	20.62	20.57
			50% Mid	2	20.61	20.68	20.53
			50% High	2	20.62	20.65	20.50
			100%	2	20.64	20.60	20.49
Band	**BW**	**Modulation**	**Mode**	**MPR**	**Low CH**	**Mid CH**	**High CH**
					2498.5 MHz	**2593.0MHz**	**2687.5 MHz**
LTE B41	5 MHz	QPSK	1RB Low	0	22.61	22.47	22.61
			1RB Mid	0	22.85	22.58	23.06
			1RB High	0	22.61	22.31	22.51
			50% Low	1	22.57	22.51	22.54
			50% Mid	1	21.95	21.66	21.72
			50% High	1	21.78	21.79	21.68
			100%	1	21.77	21.77	21.61
		16-QAM	1RB Low	1	22.03	22.08	21.74
			1RB Mid	1	21.72	21.72	22.40
			1RB High	1	21.38	21.01	21.52
			50% Low	2	21.94	22.10	22.08
			50% Mid	2	20.88	20.66	20.69
			50% High	2	20.80	20.42	20.67
			100%	2	20.73	20.59	20.57

3. TISSUE PARAMETERS MEASUREMENTS

Frequency (MHz)	Target Head Tissue		Measured Head Tissue		Deviation %		Measured Date
	Permittivity ε	Conductivity σ [S/m]	Permittivity ε	Conductivity σ [S/m]	Permittivity ε	Conductivity σ [S/m]	
750	41.94	0.89	40.71	0.90	-2.94	1.09	2022-07-12
835	41.55	0.91	42.01	0.92	1.10	1.35	2022-06-22
900	41.50	0.97	41.20	0.99	-0.71	1.97	2022-06-22
835	41.55	0.91	42.01	0.92	1.11	1.39	2022-06-24
900	41.50	0.97	41.36	0.99	-0.33	2.27	2022-06-24
1750	40.07	1.37	39.37	1.35	-1.74	-1.66	2022-06-28
1800	40.00	1.40	39.14	1.39	-2.14	-0.59	2022-06-28
1800	40.00	1.40	39.14	1.35	-2.14	-3.45	2022-06-28
1900	40.00	1.40	38.71	1.42	-3.21	1.66	2022-06-28
2300	39.47	1.67	38.89	1.73	-1.47	3.68	2022-07-06
2450	39.20	1.80	38.25	1.84	-2.42	2.24	2022-07-06
2600	39.00	1.96	37.59	2.01	-3.63	2.35	2022-07-06

Frequency (MHz)	Target Body Tissue		Measured Body Tissue		Deviation %		Measured Date
	Permittivity ε	Conductivity σ [S/m]	Permittivity ε	Conductivity σ [S/m]	Permittivity ε	Conductivity σ [S/m]	
750	55.53	0.96	53.88	0.97	-2.98	0.71	2022-07-11
835	55.21	0.98	57.20	0.96	3.61	-1.80	2022-06-25
900	55.0	1.05	56.89	1.02	3.44	-2.70	2022-06-25
835	55.21	0.98	57.03	1.01	3.29	2.92	2022-06-27
900	55.0	1.05	56.67	1.07	3.04	2.24	2022-06-27
1750	53.43	1.49	51.60	1.50	-3.43	0.77	2022-06-30
1800	53.3	1.52	51.41	1.54	-3.54	1.16	2022-06-30
1800	53.3	1.52	51.30	1.47	-3.76	-3.56	2022-07-04
1900	53.3	1.52	51.21	1.49	-3.92	-2.07	2022-07-04
2300	52.9	1.81	52.75	1.75	-0.28	-3.11	2022-07-07
2450	52.7	1.95	52.54	1.93	-0.3	-1.13	2022-07-07
2600	52.51	2.16	52.26	2.09	-0.48	-3.22	2022-07-07
2300	52.9	1.81	52.65	1.8	-0.46	-0.40	2022-07-11
2450	52.7	1.95	52.54	1.97	-0.31	0.80	2022-07-11
2600	52.51	2.16	52.38	2.11	-0.25	-2.49	2022-07-11

Note: The dielectric properties have been measured by the contact probe method at 22° C.

- Composition / Information on ingredients

Head and Muscle Tissue Simulation Liquids HSL750V2/MSL750V2

Water	Water, 35 – 58%
Sucrose	Sugar, white, refined, 40 – 60%
NaCl	Sodium Chloride, 0 – 6%
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyyl-3(2H)-isothiazolone, 0.1 – 0.7%

Head and Muscle Tissue Simulation Liquids HSL900/MSL900

Water	Water, 35 – 58%
Sucrose	Sugar, white, refined, 40 – 60%
NaCl	Sodium Chloride, 0 – 6%
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyyl-3(2H)-isothiazolone, 0.1 – 0.7%

Head and Muscle Tissue Simulation Liquids HBBL1550-1900V3/MBBL1550-1900V3

Water	50 – 73 %
Non-ionic detergents	27 – 50 % polyoxyethylenesorbitan monolaurate
NaCl	0 – 2 %
Preservative	0.05 – 0.1% Preventol-D7
Safety relevant ingredients:	
CAS-No. 55965-84-9	< 0.1 % aqueous preparation, containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyyl-3(2H)-isothiazolone
CAS-No. 9005-64-5	<50 % polyoxyethylenesorbitan monolaurate

Head and Muscle Tissue Simulation Liquids HBBL1900-3800V3/MBBL1900-3800V3

Water	50 – 73 %
Non-ionic detergents	27 – 50 % polyoxyethylenesorbitan monolaurate
NaCl	0 – 2 %
Preservative	0.05 – 0.1% Preventol-D7
Safety relevant ingredients:	
CAS-No. 55965-84-9	< 0.1 % aqueous preparation, containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyyl-3(2H)-isothiazolone
CAS-No. 9005-64-5	<50 % polyoxyethylenesorbitan monolaurate

4. SYSTEM CHECK MEASUREMENTS

4.1. Validation results for Head TSL

Date	Frequency (MHz)	SAR over	Estimated SAR (W/kg)	SAR (W/kg)	1 W Target SAR (W/kg)	1 W Norm. SAR (W/kg)	Drift (%)
2022/07/12	750	1 gr.	2.26	2.20	8.43	8.80	4.39
		10 gr.	1.51	1.44	5.51	5.76	4.54
2022/06/22	900	1 gr.	2.84	2.79	11.10	11.16	0.54
		10 gr.	1.85	1.78	7.07	7.12	0.71
2022/06/24	900	1 gr.	2.81	2.74	11.10	10.96	-1.26
		10 gr.	1.82	1.75	7.07	7.00	-0.99
2022/06/28	1800	1 gr.	9.35	9.14	39.30	36.56	-6.97
		10 gr.	4.95	4.79	20.40	19.16	-6.08
2022/06/29	1800	1 gr.	9.70	9.56	39.30	38.24	-2.70
		10 gr.	5.12	4.97	20.40	19.88	-2.55
2022/06/07	2600	1 gr.	14.90	14.50	57.10	58.00	1.58
		10 gr.	6.67	6.29	25.60	25.16	-1.72

4.2. Validation results for Body TSL

Date	Frequency (MHz)	SAR over	Estimated SAR (W/kg)	SAR (W/kg)	1 W Target SAR (W/kg)	1 W Norm. SAR (W/kg)	Drift (%)
2022/07/11	750	1 gr.	2.25	2.27	8.78	9.08	3.42
		10 gr.	1.48	1.51	5.81	6.04	3.96
2022/06/25	900	1 gr.	2.75	2.69	11.30	10.76	-4.78
		10 gr.	1.78	1.74	7.29	6.96	-4.53
2022/06/27	900	1 gr.	2.75	2.69	11.30	10.76	-4.78
		10 gr.	1.78	1.75	7.29	7.00	-3.98
2022/06/30	1800	1 gr.	9.26	9.15	38.80	36.60	-5.67
		10 gr.	4.77	4.82	20.40	19.28	-5.49
2022/07/04	1800	1 gr.	9.24	9.08	38.80	36.32	-6.39
		10 gr.	4.74	4.75	20.40	19.00	-6.86
2022/07/07	2600	1 gr.	14.00	14.00	55.00	56.00	1.82
		10 gr.	6.50	6.18	24.80	24.72	-0.32
2022/07/11	2600	1 gr.	14.00	14.30	55.00	56.68	3.05
		10 gr.	6.33	6.72	24.80	26.63	7.39

5. MEASUREMENT RESULTS FOR SAR (SPECIFIC ABSORPTION RATE)

5.1. Summary maximum results for 1-g Head SAR measurements.

Mode	Side / Position	Channel (Frequency)	Reported SAR 1-g (W/kg)	Limit SAR 1-g (W/kg)
GPRS 3 slots 850 MHz	Left Edge/20 mm	CH 128 (824.2 MHz)	1.210	1.6
GPRS 3 slots 1900 MHz	Left Edge/20 mm	CH 810 (1909.8 MHz)	0.481	1.6
WCDMA Band II	Left Edge/20 mm	CH 9538 (1907.6 MHz)	0.418	1.6
WCDMA Band V	Left Edge/20 mm	CH 4132 (826.4 MHz)	0.479	1.6
LTE Band 2	Left Edge/20 mm	CH 18700 (1860 MHz)	0.481	1.6
LTE Band 4	Left Edge/20 mm	CH 20300 (1745 MHz)	0.435	1.6
LTE Band 5	Left Edge/20 mm	CH 204505 (829.0 MHz)	0.524	1.6
LTE Band 7	Left Edge/20 mm	CH 21100 (2535.0 MHz)	0.105	1.6
LTE Band 12	Left Edge/20 mm	CH 23095 (707.5 MHz)	0.893	1.6
LTE Band 13	Left Edge/20 mm	CH 23230 (782 MHz)	0.785	1.6
LTE Band 26	Left Edge/20 mm	CH 26865 (831.5 MHz)	0.434	1.6
LTE Band 38	Left Edge/20 mm	CH 38150 (2610.0 MHz)	0.061	1.6
LTE Band 41	Left Edge/15 mm	CH 39750 (2506.0 MHz	0.090	1.6

5.2. Summary maximum results for 1-g Body SAR measurements.

Mode	Side / Position	Channel (Frequency)	Reported SAR 1-g (W/kg)	Limit SAR 1-g (W/kg)
GPRS 4 slots 850 MHz	Left Edge/20 mm	CH 128 (824.2 MHz)	1.157	1.6
GPRS 4 slots 1900 MHz	Left Edge/20 mm	CH 810 (1909.8 MHz)	0.312	1.6
WCDMA Band II	Left Edge/20 mm	CH 9538 (1907.6 MHz)	0.304	1.6
WCDMA Band V	Left Edge/20 mm	CH 4233 (846.6 MHz)	0.541	1.6
LTE Band 2	Left Edge/20 mm	CH 18900 (1880 MHz)	0.322	1.6
LTE Band 4	Left Edge/20 mm	CH 20300 (1745 MHz)	0.416	1.6
LTE Band 5	Left Edge/20 mm	CH 204505 (829.0 MHz)	0.560	1.6
LTE Band 7	Left Edge/20 mm	CH 21100 (2535.0 MHz)	0.169	1.6
LTE Band 12	Left Edge/20 mm	CH 23095 (707.5 MHz)	0.835	1.6
LTE Band 13	Left Edge/20 mm	CH 23230 (782 MHz)	0.786	1.6
LTE Band 26	Left Edge/20 mm	CH 26865 (831.5 MHz)	0.481	1.6
LTE Band 38	Left Edge/20 mm	CH 37850 (2580.0 MHz)	0.090	1.6
LTE Band 41	Left Edge/15 mm	CH 39750 (2506.0 MHz	0.059	1.6

5.3. Results for GPRS 850 MHz band – 3 slots

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 251 (848.8 MHz)	0.046	NM[3]	-0.010	1.009	0.046	
Back Face	45	CH 251 (848.8 MHz)	0.046	NM[3]	0.150	1.009	0.046	
Left Edge	20	CH 251 (848.8 MHz)	0.911	0.910	0.000	1.009	0.918	
Right Edge	20	CH 251 (848.8 MHz)	0.059	NM[3]	0.010	1.009	0.060	
Top Edge	20	CH 251 (848.8 MHz)	0.151	0.147	0.030	1.009	0.148	
Bottom Edge	20	CH 251 (848.8 MHz)	NM[4]					
Left Edge	20	CH 128 (824.2 MHz)	1.150	1.150	0.010	1.052	1.210	1
Left Edge	20	CH 190 (836.6 MHz)	0.949	0.967	-0.010	1.042	1.008	

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 251 (848.8 MHz)	0.042	NM[3]	-0.250	1.009	0.042	
Back Face	45	CH 251 (848.8 MHz)	0.049	NM[3]	-0.040	1.009	0.049	
Left Edge	20	CH 251 (848.8 MHz)	0.931	0.934	-0.040	1.009	0.943	
Right Edge	20	CH 251 (848.8 MHz)	0.055	NM[3]	-0.230	1.009	0.056	
Top Edge	20	CH 251 (848.8 MHz)	0.130	0.125	-0.020	1.009	0.126	
Bottom Edge	20	CH 251 (848.8 MHz)	NM[4]					
Left Edge	20	CH 128 (824.2 MHz)	1.090	1.100	-0.040	1.052	1.157	2
Left Edge	20	CH 190 (836.6 MHz)	0.996	1.010	-0.030	1.042	1.053	

3 and 4: See remarks and comments

5.4. Results for GPRS 1900 MHz Band – 3 slots

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 512 (1850.2 MHz)	0.039	NM[3]	0.160	1.016	0.040	
Back Face	45	CH 251 (848.8 MHz)	0.084	NM[3]	-0.030	1.016	0.085	
Left Edge	20	CH 251 (848.8 MHz)	0.366	0.366	-0.020	1.016	0.372	
Right Edge	20	CH 251 (848.8 MHz)	0.019	NM[3]	0.290	1.016	0.019	
Top Edge	20	CH 251 (848.8 MHz)	0.213	NM[3]	0.000	1.016	0.216	
Bottom Edge	20	CH 251 (848.8 MHz)	NM[4]					
Left Edge	20	CH 661 (1880 MHz)	0.417	0.422	-0.040	1.050	0.443	
Left Edge	20	CH 810 (1909.8 MHz)	0.448	0.450	-0.010	1.069	0.481	3

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 251 (848.8 MHz)	0.045	NM[3]	-0.100	1.016	0.035	
Back Face	45	CH 251 (848.8 MHz)	0.083	NM[3]	0.240	1.016	0.081	
Left Edge	20	CH 251 (848.8 MHz)	0.266	0.264	-0.050	1.016	0.268	
Right Edge	20	CH 251 (848.8 MHz)	0.018	NM[3]	-0.070	1.016	0.018	
Top Edge	20	CH 251 (848.8 MHz)	0.183	NM[3]	-0.050	1.016	0.178	
Bottom Edge	20	CH 251 (848.8 MHz)	NM[4]					
Left Edge	20	CH 661 (1880 MHz)	0.253	0.256	0.050	1.050	0.269	
Left Edge	20	CH 810 (1909.8 MHz)	0.290	0.292	0.000	1.069	0.312	4

3 and 4: See remarks and comments

5.5. Results for WCDMA Band II

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 9262 (1852.4 MHz)	0.034	NM[3]	0.130	1.189	0.040	
Back Face	45	CH 251 (848.8 MHz)	0.087	NM[3]	0.120	1.189	0.103	
Left Edge	20	CH 251 (848.8 MHz)	0.329	0.326	-0.010	1.189	0.387	
Right Edge	20	CH 251 (848.8 MHz)	0.017	NM[3]	0.210	1.189	0.020	
Top Edge	20	CH 251 (848.8 MHz)	0.180	NM[3]	0.030	1.189	0.214	
Bottom Edge	20	CH 251 (848.8 MHz)	NM[4]					
Left Edge	20	CH 9400 (1880 MHz)	0.321	0.324	-0.050	1.250	0.405	
Left Edge	20	CH 9538 (1907.6 MHz)	0.329	0.333	-0.170	1.256	0.418	5

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 9262 (1852.4 MHz)	0.040	NM[3]	-0.040	1.189	0.040	
Back Face	45	CH 251 (848.8 MHz)	0.071	NM[3]	-0.190	1.189	0.087	
Left Edge	20	CH 251 (848.8 MHz)	0.227	0.230	0.020	1.189	0.273	
Right Edge	20	CH 251 (848.8 MHz)	0.017	NM[3]	-0.190	1.189	0.020	
Top Edge	20	CH 251 (848.8 MHz)	0.158	NM[3]	-0.040	1.189	0.188	
Bottom Edge	20	CH 251 (848.8 MHz)	NM[4]					
Left Edge	20	CH 9400 (1880 MHz)	0.216	0.221	-0.070	1.250	0.276	
Left Edge	20	CH 9538 (1907.6 MHz)	0.242	0.242	0.100	1.256	0.304	6

3 and 4: See remarks and comments

5.6. Results for WCDMA Band V

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 4132 (826.4 MHz)	0.021	NM[3]	0.260	1.089	0.023	
Back Face	45	CH 4132 (826.4 MHz)	0.021	NM[3]	0.360	1.089	0.023	
Left Edge	20	CH 4132 (826.4 MHz)	0.432	0.440	0.000	1.089	0.479	7
Right Edge	20	CH 4132 (826.4 MHz)	0.025	NM[3]	0.320	1.089	0.027	
Top Edge	20	CH 4132 (826.4 MHz)	0.074	NM[3]	-0.060	1.089	0.081	
Bottom Edge	20	CH 4132 (826.4 MHz)	NM[4]					
Left Edge	20	CH 4183 (836.6 MHz)	0.403	0.409	0.000	1.107	0.453	
Left Edge	20	CH 4233 (846.6 MHz)	0.408	0.408	0.050	1.127	0.460	

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 4132 (826.4 MHz)	0.020	NM[3]	0.010	1.089	0.022	
Back Face	45	CH 4132 (826.4 MHz)	0.021	NM[3]	0.060	1.089	0.023	
Left Edge	20	CH 4132 (826.4 MHz)	0.314	0.328	-0.010	1.089	0.357	
Right Edge	20	CH 4132 (826.4 MHz)	0.025	NM[3]	0.040	1.089	0.027	
Top Edge	20	CH 4132 (826.4 MHz)	0.055	NM[3]	-0.090	1.089	0.060	
Bottom Edge	20	CH 4132 (826.4 MHz)	NM[4]					
Left Edge	20	CH 4183 (836.6 MHz)	0.284	0.304	0.020	1.107	0.336	
Left Edge	20	CH 4233 (846.6 MHz)	0.468	0.480	0.030	1.127	0.541	8

3 and 4: See remarks and comments

5.7. Results for LTE Band 2 (1 RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 19100 (1900 MHz)	0.041	NM[3]	-0.030	1.247	0.051	
Back Face	45	CH 19100 (1900 MHz)	0.133	NM[3]	0.067	1.247	0.166	
Left Edge	20	CH 19100 (1900 MHz)	0.351	0.351	-0.010	1.247	0.438	
Right Edge	20	CH 19100 (1900 MHz)	0.022	NM[3]	0.030	1.247	0.027	
Top Edge	20	CH 19100 (1900 MHz)	0.176	NM[3]	0.270	1.247	0.220	
Bottom Edge	20	CH 19100 (1900 MHz)	NM[4]					
Left Edge	20	CH 18700 (1860 MHz)	0.358	0.374	-0.040	1.285	0.481	9
Left Edge	20	CH 18900 (1880 MHz)	0.326	0.336	0.010	1.324	0.445	

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 19100 (1900 MHz)	0.038	NM[3]	0.050	1.247	0.039	
Back Face	45	CH 19100 (1900 MHz)	0.088	NM[3]	-0.160	1.247	0.112	
Left Edge	20	CH 19100 (1900 MHz)	0.230	0.230	-0.050	1.247	0.287	
Right Edge	20	CH 19100 (1900 MHz)	0.016	NM[3]	-0.370	1.247	0.020	
Top Edge	20	CH 19100 (1900 MHz)	0.166	NM[3]	-0.100	1.247	0.203	
Bottom Edge	20	CH 19100 (1900 MHz)	NM[4]					
Left Edge	20	CH 18700 (1860 MHz)	0.240	0.243	0.060	1.285	0.312	
Left Edge	20	CH 18900 (1880 MHz)	0.228	0.243	-0.160	1.324	0.322	10

3 and 4: See remarks and comments

5.8. Results for LTE Band 2 (50% RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 19100 (1900 MHz)	0.269	0.277	-0.120	1.294	0.358	

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 19100 (1900 MHz)	0.190	0.192	-0.030	1.294	0.248	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.10. Results for LTE Band 4 (1 RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 20175 (1732.5 MHz)	0.027	NM[3]	-0.320	1.253	0.034	
Back Face	45	CH 20175 (1732.5 MHz)	0.046	NM[3]	-0.260	1.253	0.058	
Left Edge	20	CH 20175 (1732.5 MHz)	0.316	0.315	-0.030	1.253	0.395	
Right Edge	20	CH 20175 (1732.5 MHz)	0.011	NM[3]	-0.370	1.253	0.014	
Top Edge	20	CH 20175 (1732.5 MHz)	0.150	NM[3]	-0.060	1.253	0.188	
Bottom Edge	20	CH 20175 (1732.5 MHz)	NM[4]					
Left Edge	20	CH 20050 (1720 MHz)	0.276	0.282	-0.080	1.285	0.362	
Left Edge	20	CH 20300 (1745 MHz)	0.317	0.331	0.160	1.315	0.435	11

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 20175 (1732.5 MHz)	0.016	NM[3]	-0.160	1.253	0.020	
Back Face	45	CH 20175 (1732.5 MHz)	0.040	NM[3]	-0.090	1.253	0.050	
Left Edge	20	CH 20175 (1732.5 MHz)	0.305	0.307	0.120	1.253	0.385	
Right Edge	20	CH 20175 (1732.5 MHz)	0.009	NM[3]	-0.150	1.253	0.011	
Top Edge	20	CH 20175 (1732.5 MHz)	0.137	NM[3]	-0.110	1.253	0.172	
Bottom Edge	20	CH 20175 (1732.5 MHz)	NM[4]					
Left Edge	20	CH 20050 (1720 MHz)	0.259	0.258	-0.100	1.285	0.332	
Left Edge	20	CH 20300 (1745 MHz)	0.305	0.316	-0.080	1.315	0.416	12

3 and 4: See remarks and comments

5.11. Results for LTE Band 4 (50% RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 20525 (836.5 MHz)	0.205	0.212	-0.060	1.306	0.277	

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 20525 (836.5 MHz)	0.203	0.205	-0.050	1.306	0.268	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.12. Results for LTE Band 5 (1 RB, 10 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 20525 (836.5 MHz)	0.017	NM[3]	0.080	1.194	0.020	
Back Face	45	CH 20525 (836.5 MHz)	0.020	NM[3]	0.350	1.194	0.024	
Left Edge	20	CH 20525 (836.5 MHz)	0.428	0.427	-0.010	1.194	0.510	
Right Edge	20	CH 20525 (836.5 MHz)	0.027	NM[3]	0.120	1.194	0.032	
Top Edge	20	CH 20525 (836.5 MHz)	0.070	NM[3]	0.110	1.194	0.084	
Bottom Edge	20	CH 20525 (836.5 MHz)	NM[4]					
Left Edge	20	CH 204505 (829.0 MHz)	0.432	0.435	0.000	1.205	0.524	13
Left Edge	20	CH 20600 (844.0 MHz)	0.406	0.428	-0.010	1.213	0.519	

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 20525 (836.5 MHz)	0.015	NM[3]	-0.100	1.194	0.018	
Back Face	45	CH 20525 (836.5 MHz)	0.018	NM[3]	-0.130	1.194	0.021	
Left Edge	20	CH 20525 (836.5 MHz)	0.445	0.455	0.070	1.194	0.543	
Right Edge	20	CH 20525 (836.5 MHz)	0.028	NM[3]	-0.070	1.194	0.033	
Top Edge	20	CH 20525 (836.5 MHz)	0.056	NM[3]	-0.040	1.194	0.067	
Bottom Edge	20	CH 20525 (836.5 MHz)	NM[4]					
Left Edge	20	CH 204505 (829.0 MHz)	0.427	0.465	-0.020	1.205	0.560	14
Left Edge	20	CH 20600 (844.0 MHz)	0.415	0.423	0.000	1.213	0.513	

3 and 4: See remarks and comments

5.13. Results for LTE Band 5 (50% RB, 10 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 20525 (836.5 MHz)	0.336	0.332	0.020	1.216	0.404	

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 20525 (836.5 MHz)	0.328	0.334	-0.010	1.216	0.406	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.14. Results for LTE Band 7 (1 RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 21100 (2535.0 MHz)	0.021	NM[3]	-0.260	1.479	0.031	
Back Face	45	CH 21100 (2535.0 MHz)	0.019	NM[3]	0.260	1.479	0.028	
Left Edge	20	CH 21100 (2535.0 MHz)	0.071	0.071	0.200	1.479	0.105	15
Right Edge	20	CH 21100 (2535.0 MHz)	0.017	NM[3]	0.220	1.479	0.025	
Top Edge	20	CH 21100 (2535.0 MHz)	0.035	NM[3]	-0.020	1.479	0.052	
Bottom Edge	20	CH 21100 (2535.0 MHz)	NM[4]					
Left Edge	20	CH 20850 (2510.0 MHz)	0.062	0.068	-0.210	1.503	0.102	
Left Edge	20	CH 21350 (2560.0 MHz)	0.071	0.068	-0.370	1.486	0.101	

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 21100 (2535.0 MHz)	0.014	NM[3]	-0.490	1.479	0.021	
Back Face	45	CH 21100 (2535.0 MHz)	0.025	NM[3]	-0.214	1.479	0.037	
Left Edge	20	CH 21100 (2535.0 MHz)	0.106	0.114	0.100	1.479	0.169	16
Right Edge	20	CH 21100 (2535.0 MHz)	0.013	NM[3]	0.150	1.479	0.019	
Top Edge	20	CH 21100 (2535.0 MHz)	0.028	NM[3]	0.090	1.479	0.041	
Bottom Edge	20	CH 21100 (2535.0 MHz)	NM[4]					
Left Edge	20	CH 20850 (2510.0 MHz)	0.063	0.064	0.070	1.503	0.096	
Left Edge	20	CH 21350 (2560.0 MHz)	0.094	0.108	0.210	1.486	0.160	

3 and 4: See remarks and comments

5.15. Results for LTE Band 7 (50% RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 21350 (2560.0 MHz)	0.055	0.055	-0.240	1.510	0.083	

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 21350 (2560.0 MHz)	0.080	0.083	0.260	1.510	0.125	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.16. Results for LTE Band 12 (1 RB, 10 MHz, QPSK)

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, the middle channel of the group of overlapping channels should be selected for testing.

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 23095 (707.5 MHz)	0.024	NM[3]	0.110	1.355	0.033	
Back Face	45	CH 23095 (707.5 MHz)	0.020	NM[3]	0.070	1.355	0.027	
Left Edge	20	CH 23095 (707.5 MHz)	0.646	0.659	0.000	1.355	0.893	17
Right Edge	20	CH 23095 (707.5 MHz)	0.006	NM[3]	NM[5]	1.355	0.008	
Top Edge	20	CH 23095 (707.5 MHz)	0.086	NM[3]	-0.100	1.355	0.117	
Bottom Edge	20	CH 23095 (707.5 MHz)	NM[4]					

3, 4 and 5: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 23095 (707.5 MHz)	0.013	NM[3]	0.200	1.355	0.018	
Back Face	45	CH 23095 (707.5 MHz)	0.021	NM[3]	-0.190	1.355	0.028	
Left Edge	20	CH 23095 (707.5 MHz)	0.603	0.616	-0.070	1.355	0.835	18
Right Edge	20	CH 23095 (707.5 MHz)	0.009	NM[3]	NM[5]	1.355	0.012	
Top Edge	20	CH 23095 (707.5 MHz)	0.063	NM[3]	-0.230	1.355	0.085	
Bottom Edge	20	CH 23095 (707.5 MHz)	NM[4]					

3, 4 and 5: See remarks and comments

5.17. Results for LTE Band 12 (50% RB, 10 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 23095 (707.5 MHz)	0.484	0.487	0.000	1.355	0.660	

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 23095 (707.5 MHz)	0.466	0.475	-0.040	1.355	0.644	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.18. Results for LTE Band 13 (1 RB, 10 MHz, QPSK)

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, the middle channel of the group of overlapping channels should be selected for testing.

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 23230 (782 MHz)	0.027	NM[3]	-0.120	1.268	0.034	
Back Face	45	CH 23230 (782 MHz)	0.027	NM[3]	-0.280	1.268	0.025	
Left Edge	20	CH 23230 (782 MHz)	0.598	0.619	0.090	1.268	0.785	19
Right Edge	20	CH 23230 (782 MHz)	0.027	NM[3]	0.020	1.268	0.034	
Top Edge	20	CH 23230 (782 MHz)	0.079	NM[3]	0.040	1.268	0.100	
Bottom Edge	20	CH 23230 (782 MHz)	NM[4]					

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 23230 (782 MHz)	0.018	NM[3]	0.190	1.268	0.023	
Back Face	45	CH 23230 (782 MHz)	0.032	NM[3]	-0.110	1.268	0.041	
Left Edge	20	CH 23230 (782 MHz)	0.598	0.620	-0.120	1.268	0.786	20
Right Edge	20	CH 23230 (782 MHz)	0.018	NM[3]	-0.310	1.268	0.023	
Top Edge	20	CH 23230 (782 MHz)	0.076	NM[3]	-0.040	1.268	0.096	
Bottom Edge	20	CH 23230 (782 MHz)	NM[4]					

3 and 4: See remarks and comments

5.19. Results for LTE Band 13 (50% RB, 10 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 23230 (782 MHz)	0.449	0.580	0.000	1.303	0.756	

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 23230 (782 MHz)	0.436	0.450	0.000	1.303	0.586	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.20. Results for LTE Band 26 (1 RB, 15 MHz, QPSK)

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, the middle channel of the group of overlapping channels should be selected for testing.

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 26865 (831.5 MHz)	0.017	NM[3]	0.000	1.151	0.020	
Back Face	45	CH 26865 (831.5 MHz)	0.020	NM[3]	0.240	1.151	0.023	
Left Edge	20	CH 26865 (831.5 MHz)	0.402	0.377	0.050	1.151	0.434	21
Right Edge	20	CH 26865 (831.5 MHz)	0.023	NM[3]	0.260	1.151	0.026	
Top Edge	20	CH 26865 (831.5 MHz)	0.068	NM[3]	-0.140	1.151	0.078	
Bottom Edge	20	CH 26865 (831.5 MHz)	NM[4]					

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 26865 (831.5 MHz)	0.017	NM[3]	-0.010	1.151	0.020	
Back Face	45	CH 26865 (831.5 MHz)	0.019	NM[3]	0.080	1.151	0.022	
Left Edge	20	CH 26865 (831.5 MHz)	0.408	0.418	-0.180	1.151	0.481	22
Right Edge	20	CH 26865 (831.5 MHz)	0.028	NM[3]	-0.140	1.151	0.032	
Top Edge	20	CH 26865 (831.5 MHz)	0.057	NM[3]	-0.070	1.151	0.066	
Bottom Edge	20	CH 26865 (831.5 MHz)	NM[4]					

3 and 4: See remarks and comments

5.21. Results for LTE Band 26 (50% RB, 15 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 26865 (831.5 MHz)	0.356	0.349	-0.010	1.183	0.413	

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 26865 (831.5 MHz)	0.342	0.351	-0.030	1.183	0.415	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.22. Results for LTE Band 38 (1 RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 37850 (2580.0 MHz)	0.018	NM[3]	-0.39	1.349	0.024	
Back Face	45	CH 37850 (2580.0 MHz)	0.013	NM[3]	-0.170	1.349	0.018	
Left Edge	20	CH 37850 (2580.0 MHz)	0.037	0.038	-0.110	1.349	0.051	
Right Edge	20	CH 37850 (2580.0 MHz)	0.026	NM[3]	0.380	1.349	0.015	
Top Edge	20	CH 37850 (2580.0 MHz)	0.024	NM[3]	-0.130	1.349	0.032	
Bottom Edge	20	CH 37850 (2580.0 MHz)	NM[4]					
Left Edge	20	CH 38000 (2595.0 MHz)	0.048	0.044	0.310	1.368	0.060	
Left Edge	20	CH 38150 (2610.0 MHz)	0.042	0.045	-0.310	1.361	0.061	23

3 and 4: See remarks and comments

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	20	CH 37850 (2580.0 MHz)	0.010	NM[3]	0.310	1.349	0.013	
Back Face	45	CH 37850 (2580.0 MHz)	0.017	NM[3]	-0.390	1.349	0.023	
Left Edge	20	CH 37850 (2580.0 MHz)	0.057	0.067	0.430	1.349	0.090	24
Right Edge	20	CH 37850 (2580.0 MHz)	0.008	NM[3]	-0.420	1.349	0.011	
Top Edge	20	CH 37850 (2580.0 MHz)	0.017	NM[3]	0.300	1.349	0.023	
Bottom Edge	20	CH 37850 (2580.0 MHz)	NM[4]					
Left Edge	20	CH 38000 (2595.0 MHz)	0.058	0.066	0.150	1.368	0.090	
Left Edge	20	CH 38150 (2610.0 MHz)	0.057	0.065	0.320	1.361	0.088	

3 and 4: See remarks and comments

5.23. Results for LTE Band 38 (50% RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 37850 (2580.0 MHz)	0.036	0.032	-0.080	1.318	0.042	

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	20	CH 37850 (2580.0 MHz)	0.044	0.052	0.280	1.318	0.069	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.24. Results for LTE Band 41 (1 RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	15	CH 40620 (2593.0 MHz	0.018	NM[3]	-0.230	1.324	0.024	
Back Face	45	CH 40620 (2593.0 MHz	0.012	NM[3]	0.270	1.324	0.016	
Left Edge	15	CH 40620 (2593.0 MHz	0.044	0.042	0.150	1.324	0.056	
Right Edge	15	CH 40620 (2593.0 MHz	0.009	NM[3]	NM[5]	1.324	0.012	
Top Edge	15	CH 40620 (2593.0 MHz	0.016	NM[3]	0.25	1.324	0.021	
Bottom Edge	15	CH 40620 (2593.0 MHz	NM[4]					
Left Edge	15	CH 39750 (2506.0 MHz	0.054	0.051	0.170	1.377	0.070	
Left Edge	15	CH 41490 (2680.0 MHz	0.052	0.045	0.210	1.358	0.061	

3, 4 and 5: See remarks and comments

- **<u>Body measurements</u>**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Front Face	15	CH 40620 (2593.0 MHz	0.013	NM[3]	NM[5]	1.324	0.017	
Back Face	45	CH 40620 (2593.0 MHz	0.013	NM[3]	0.400	1.324	0.017	
Left Edge	15	CH 40620 (2593.0 MHz	0.041	0.041	-0.490	1.324	0.054	
Right Edge	15	CH 40620 (2593.0 MHz	0.010	NM[3]	NM[5]	1.324	0.013	
Top Edge	15	CH 40620 (2593.0 MHz	0.017	NM[3]	-0.480	1.324	0.023	
Bottom Edge	15	CH 40620 (2593.0 MHz	NM[4]					
Left Edge	15	CH 39750 (2506.0 MHz	0.040	0.043	-0.150	1.377	0.059	26
Left Edge	15	CH 41490 (2680.0 MHz	0.036	0.036	0.370	1.358	0.049	

3, 4 and 5: See remarks and comments

5.25. Results for LTE Band 41 (50% RB, 20 MHz, QPSK)

- **Head measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	15	CH 39750 (2506.0 MHz	0.070	0.070	0.000	1.288	0.090	25

- **Body measurements**

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Left Edge	15	CH 39750 (2506.0 MHz	0.025	0.027	0.380	1.288	0.035	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.26. Variability results

According to KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, paragraph “2.8.1. SAR measurement variability”, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements.

Repeated measurements are required only when the measured 1-g SAR is ≥ 0.80 W/kg, or 10-g SAR is ≥ 2.0 W/kg, using the highest measured SAR configuration for that tissue-equivalent medium.

Exposure Condition	Mode	Position/Distance	Channel (Frequency)	Max. measured SAR 1-g (W/kg)	Variability measured SAR 1-g (W/kg)	Variability reported SAR 1-g (W/kg)	Plot No.
Head	GPRS 850 3 slots	Left edge/20 mm	CH 128 (824.2 MHz	1.15	1.11	1.178	27
Body	GPRS 850 3 slots	Left edge/20 mm	CH 128 (824.2 MHz	1.05	1.06	1.115	28

Appendix C: Measurement report

Plot Nº1

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	GSM 850	GSM, 10027-DAC	824.2, 128	6.12	0.910	42.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-06-22 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

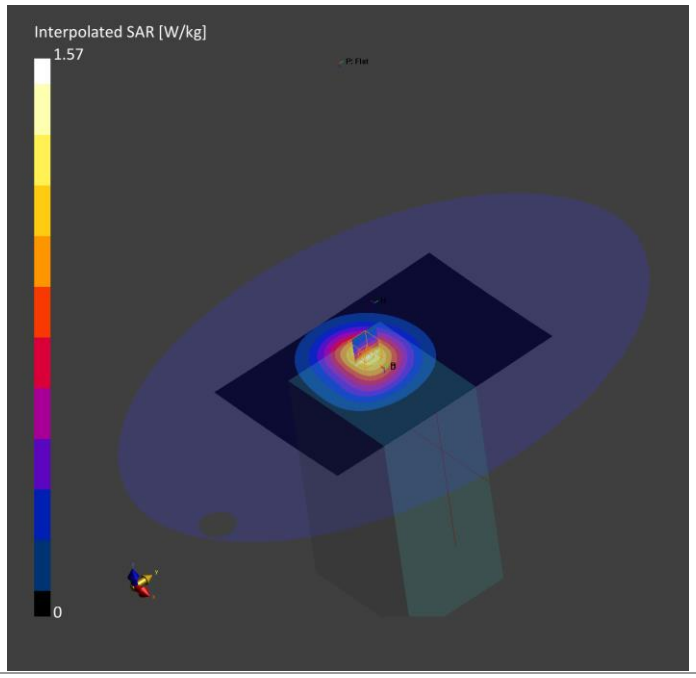
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-24, 09:35	2022-06-24, 09:48
psSAR1g [W/kg]	1.15	1.15
psSAR10g [W/kg]	0.795	0.834
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		90.8
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº2

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	GSM 850	GSM, 10027-DAC	824.2, 128	6.11	0.950	57.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL900V2-2022-06-25 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

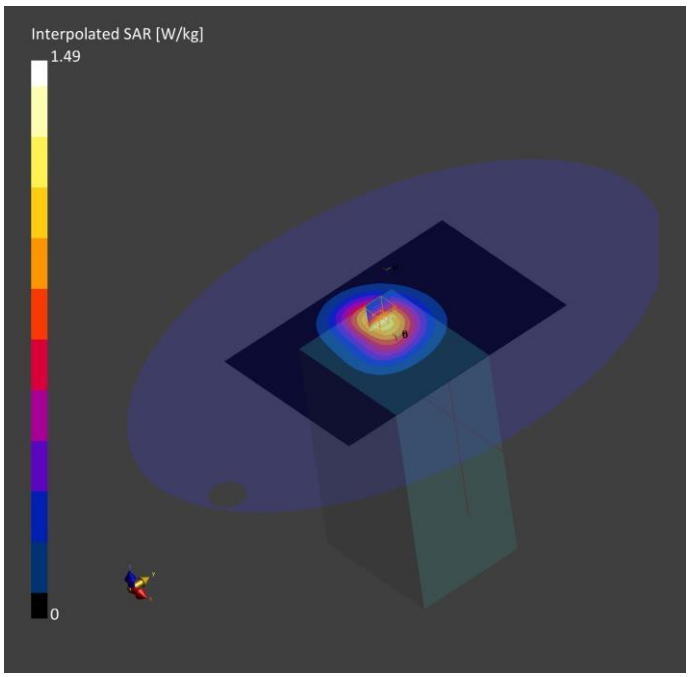
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-25, 11:27	2022-06-25, 11:33
psSAR1g [W/kg]	1.09	1.10
psSAR10g [W/kg]	0.751	0.797
Power Drift [dB]	0.03	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.6
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº3

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	PCS 1900	GSM, 10027-DAC	1909.8, 810	5.28	1.43	38.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-06-28 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

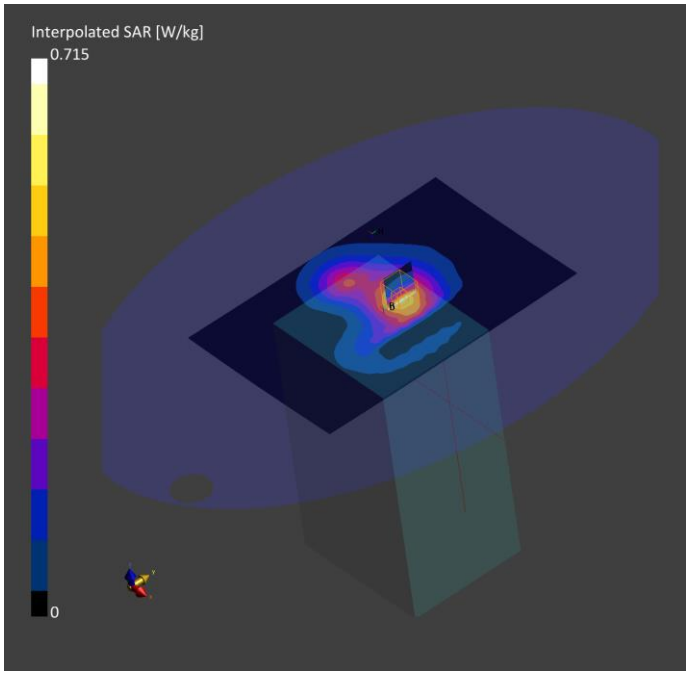
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-28, 17:03	2022-06-28, 17:37
psSAR1g [W/kg]	0.448	0.450
psSAR10g [W/kg]	0.275	0.282
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.1
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº4

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	PCS 1900	GSM, 10027-DAC	1909.8, 810	5.17	1.49	51.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1550-1950-1700MHz-2022-07-04 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

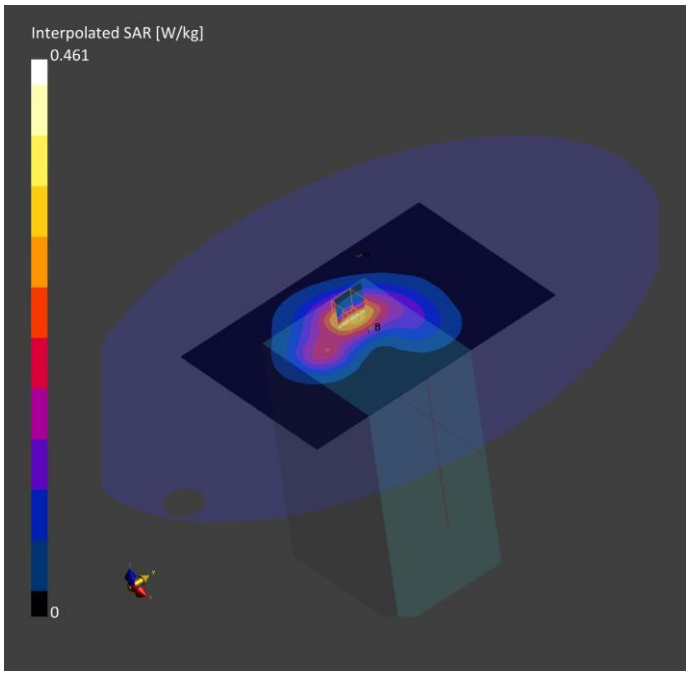
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-04, 10:41	2022-07-04, 10:47
psSAR1g [W/kg]	0.290	0.292
psSAR10g [W/kg]	0.178	0.184
Power Drift [dB]	-0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.4
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº5

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 2, UTRA/FDD	WCDMA, 10457-AAA	1907.6, 9538	5.28	1.43	38.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-06-28 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

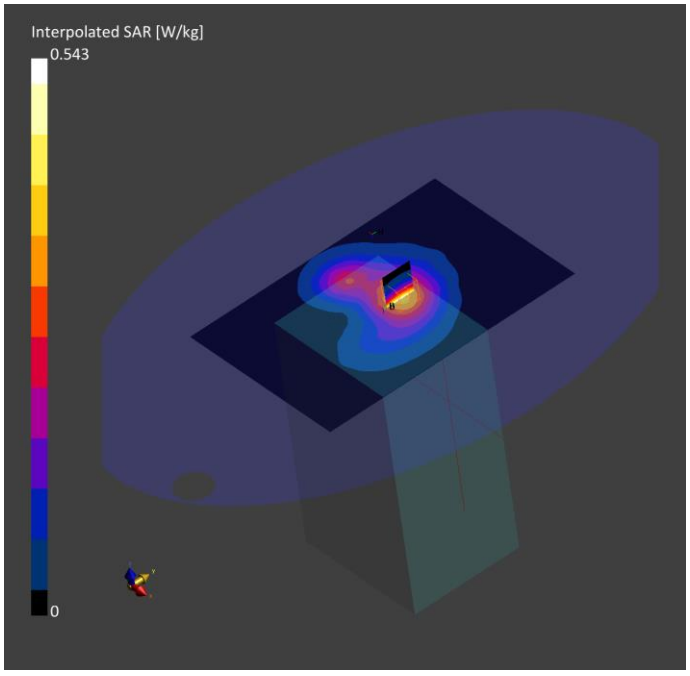
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-29, 08:29	2022-06-29, 08:36
psSAR1g [W/kg]	0.329	0.333
psSAR10g [W/kg]	0.202	0.208
Power Drift [dB]	0.01	-0.17
Power Scaling Scaling Factor [dB]	Disabled	Disabled
TSL Correction	No correction	No correction
M2/M1 [%]		86.9
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº6

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 2, UTRA/FDD	WCDMA, 10457-AAA	1907.6, 9538	5.17	1.49	51.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1550-1950-1700MHz-2022-07-04 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

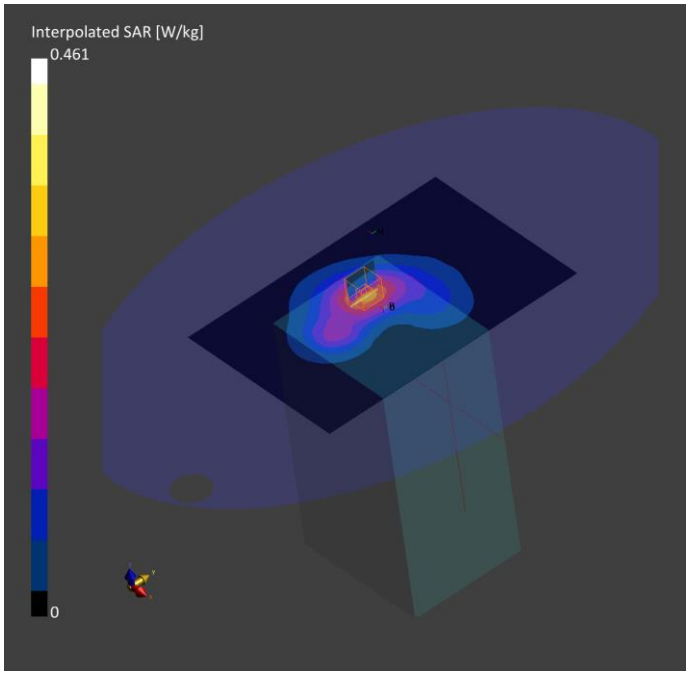
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-04, 13:48	2022-07-04, 13:55
psSAR1g [W/kg]	0.242	0.242
psSAR10g [W/kg]	0.149	0.152
Power Drift [dB]	0.04	0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.2
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº7

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 5, UTRA/FDD	WCDMA, 10457-AAA	826.4, 4132	6.12	0.913	42.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-06-22 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

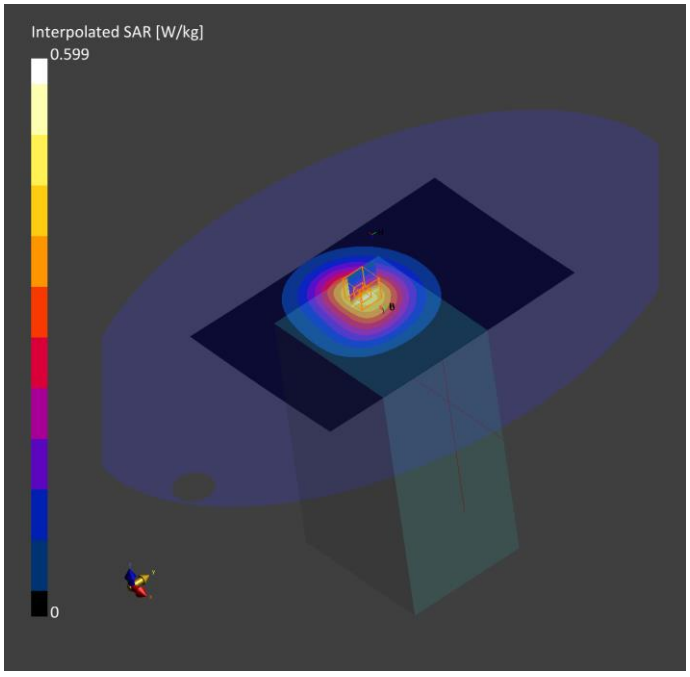
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-24, 11:15	2022-06-24, 11:28
psSAR1g [W/kg]	0.432	0.440
psSAR10g [W/kg]	0.300	0.318
Power Drift [dB]	-0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº8

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 5, UTRA/FDD	WCDMA, 10457-AAA	846.6, 4233	6.11	0.980	57.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL900V2-2022-06-25 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

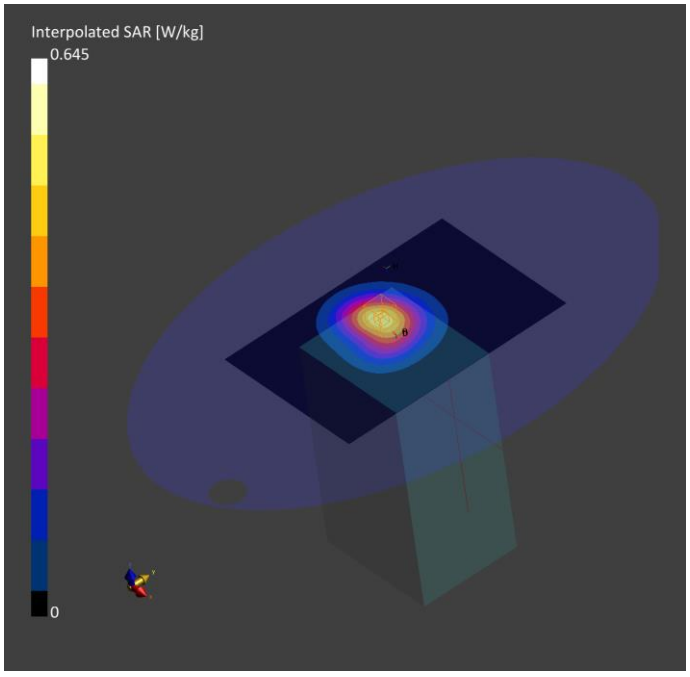
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27, 08:03	2022-06-27, 08:09
psSAR1g [W/kg]	0.468	0.480
psSAR10g [W/kg]	0.321	0.350
Power Drift [dB]	0.03	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.7
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº9

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 2, E-UTRA/FDD	LTE-FDD, 10169-CAE	1860.0, 18700	5.28	1.40	38.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-06-28 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

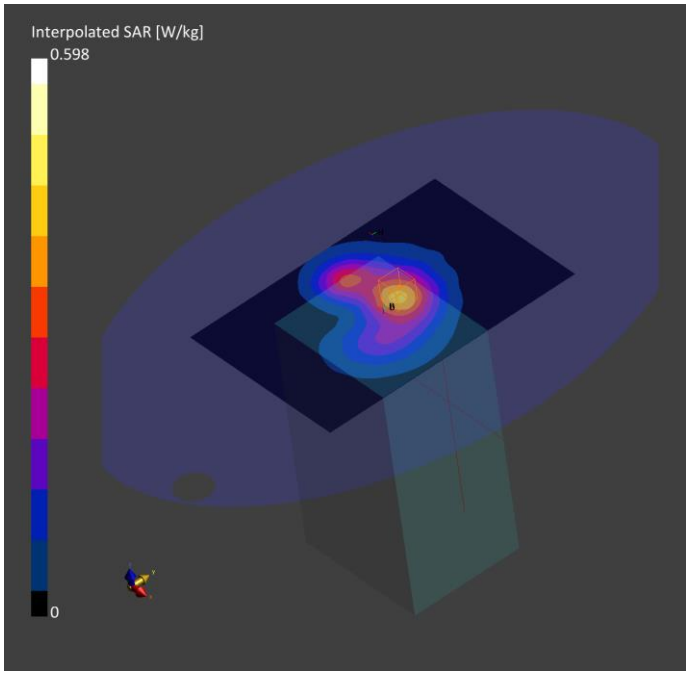
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-29, 09:07	2022-06-29, 09:13
psSAR1g [W/kg]	0.358	0.374
psSAR10g [W/kg]	0.221	0.235
Power Drift [dB]	0.07	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.1
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº10

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 2, E-UTRA/FDD	LTE-FDD, 10169-CAE	1880.0, 18900	5.17	1.49	51.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1550-1950-1700MHz-2022-07-04 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

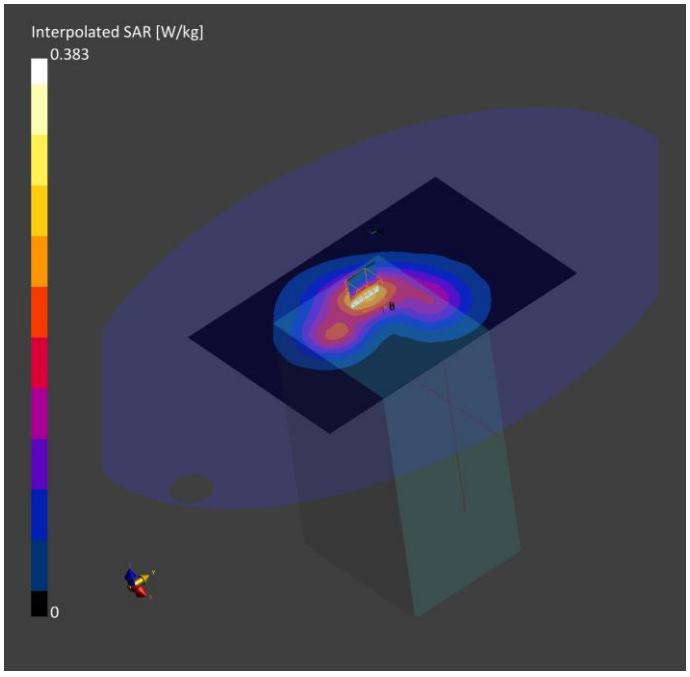
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-04, 12:08	2022-07-04, 12:15
psSAR1g [W/kg]	0.228	0.243
psSAR10g [W/kg]	0.142	0.155
Power Drift [dB]	-0.05	-0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.7
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº11

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 4, E-UTRA/FDD	LTE-FDD, 10169-CAE	1745.0, 20300	5.28	1.34	39.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1700MHz-2022-06-28 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

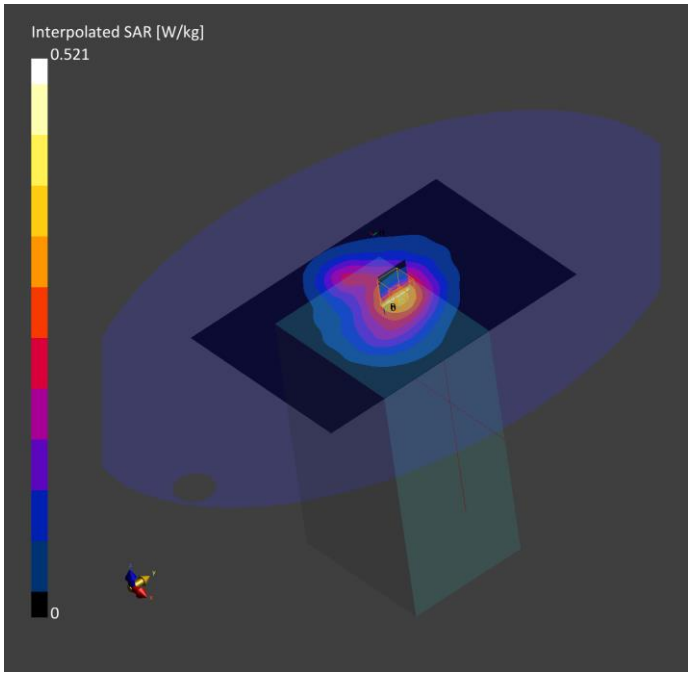
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-29, 16:13	2022-06-29, 16:19
psSAR1g [W/kg]	0.317	0.331
psSAR10g [W/kg]	0.200	0.211
Power Drift [dB]	-0.15	0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº12

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 4, E-UTRA/FDD	LTE-FDD, 10169-CAE	1745.0, 20300	5.17	1.49	51.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1550-1950-1700MHz-2022-06-30 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

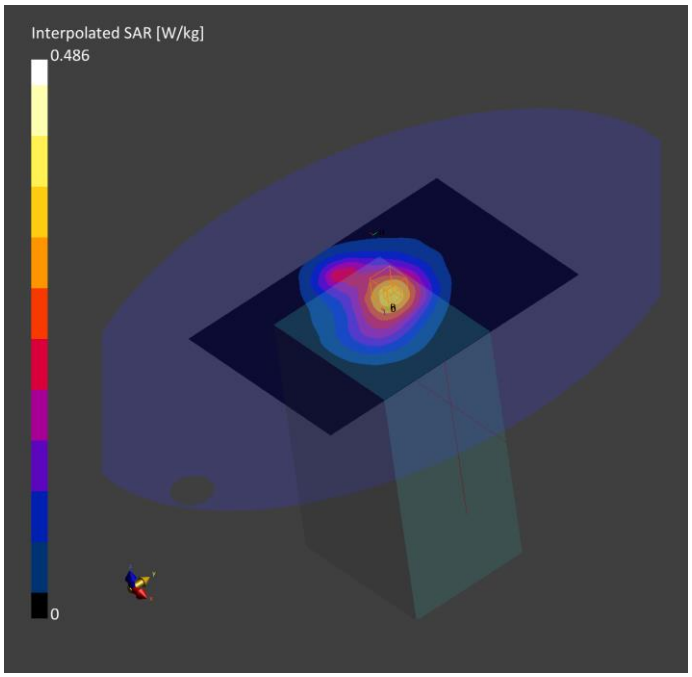
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-30, 12:21	2022-06-30, 12:27
psSAR1g [W/kg]	0.305	0.316
psSAR10g [W/kg]	0.192	0.208
Power Drift [dB]	-0.13	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.3
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº13

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 5, E-UTRA/FDD	LTE-FDD, 10175-CAG	829.0, 20450	6.12	0.918	42.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-06-22 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

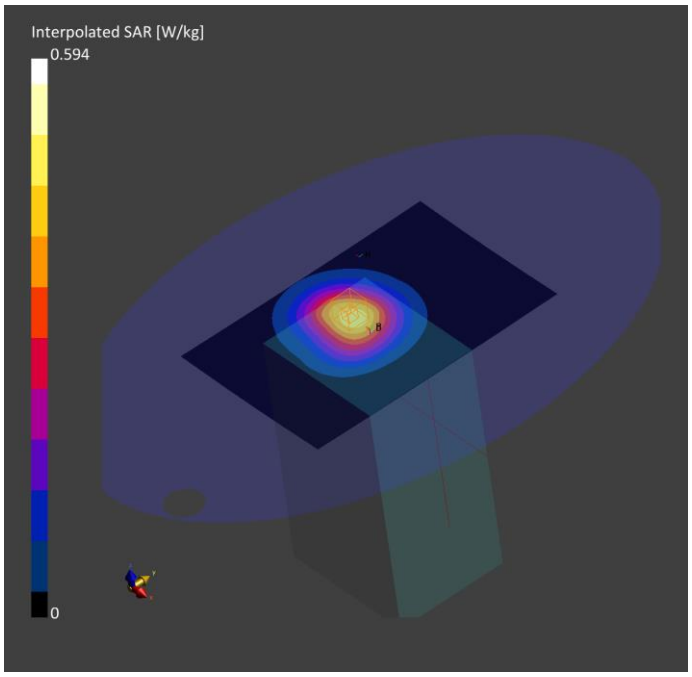
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-23, 14:53	2022-06-23, 15:06
psSAR1g [W/kg]	0.432	0.435
psSAR10g [W/kg]	0.299	0.314
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		90.8
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº14

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 5, E-UTRA/FDD	LTE-FDD, 10175-CAG	829.0, 20450	6.11	0.958	57.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL900V2-2022-06-25 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

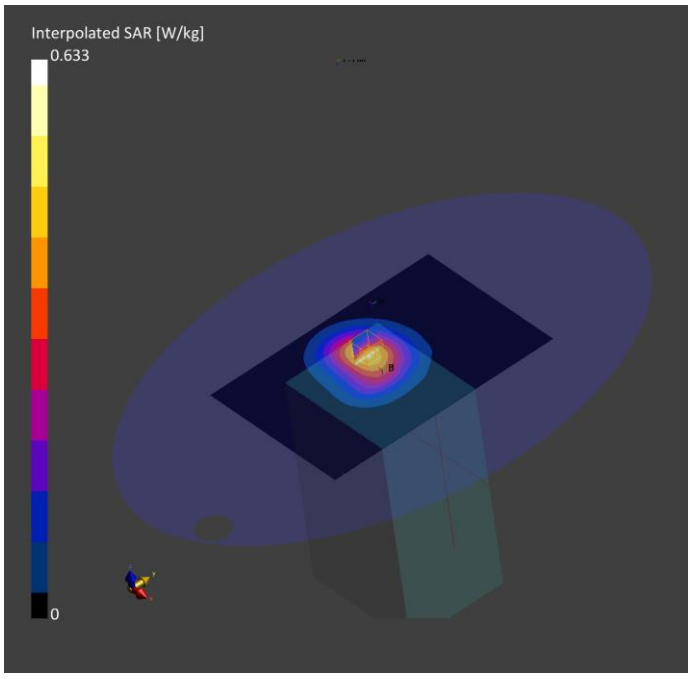
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-25, 12:50	2022-06-25, 12:56
psSAR1g [W/kg]	0.427	0.465
psSAR10g [W/kg]	0.294	0.332
Power Drift [dB]	-0.11	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.8
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº15

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 7, E-UTRA/FDD	LTE-FDD, 10169-CAE	2535.0, 21100	7.27	1.94	37.8

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022-07-06 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

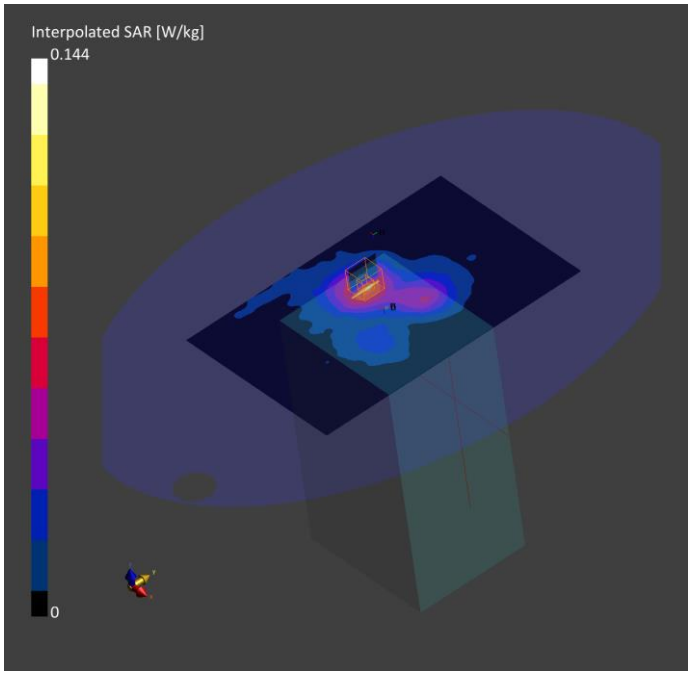
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06, 11:01	2022-07-06, 11:08
psSAR1g [W/kg]	0.071	0.071
psSAR10g [W/kg]	0.040	0.040
Power Drift [dB]	0.03	0.20
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.7
Dist 3dB Peak [mm]		19.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº16

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 7, E-UTRA/FDD	LTE-FDD, 10169-CAE	2535.0, 21100	7.48	2.04	52.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1900-3800V3 - 2600MHz - 2022-07-11 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

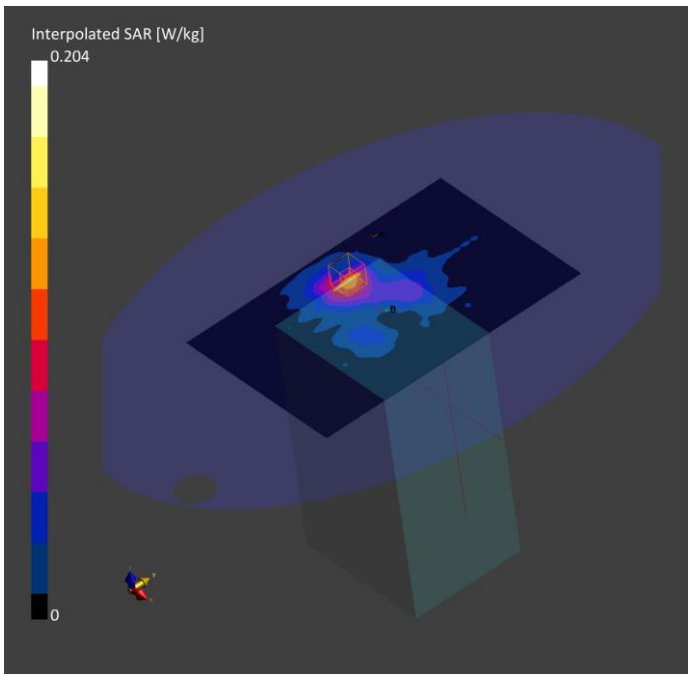
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-11, 12:50	2022-07-11, 13:07
psSAR1g [W/kg]	0.106	0.114
psSAR10g [W/kg]	0.060	0.070
Power Drift [dB]	0.26	0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.8
Dist 3dB Peak [mm]		17.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº17

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 12, E-UTRA/FDD	LTE-FDD, 10175-CAG	707.5, 23095	9.84	0.875	41.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2-2022-07-12 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

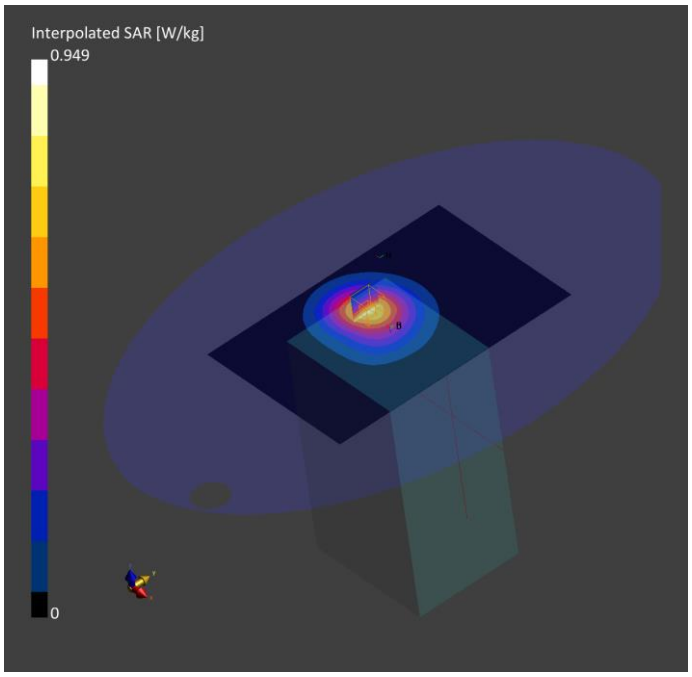
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-12, 15:21	2022-07-12, 15:34
psSAR1g [W/kg]	0.646	0.659
psSAR10g [W/kg]	0.448	0.472
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.7
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº18

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 12, E-UTRA/FDD	LTE-FDD, 10175-CAG	707.5, 23095	10.0	0.930	54.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL750V2 - 2022-07-11 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

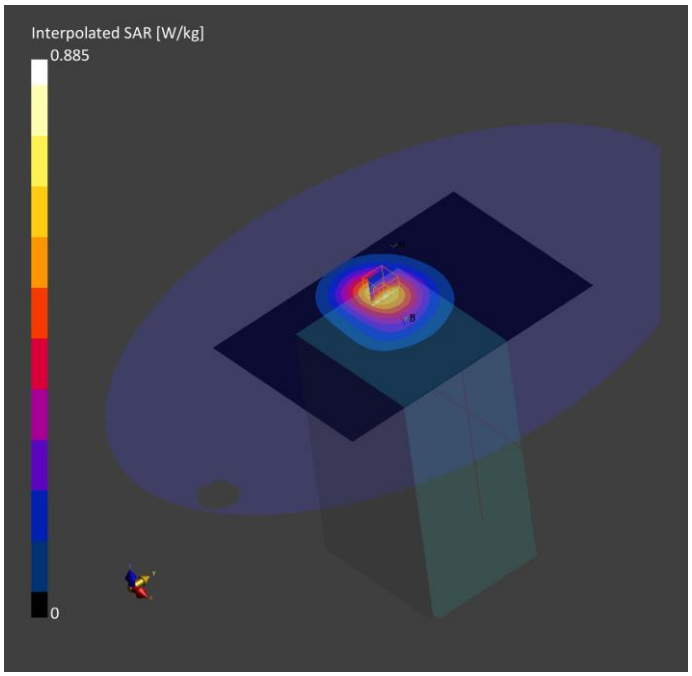
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-12, 08:18	2022-07-12, 08:24
psSAR1g [W/kg]	0.603	0.616
psSAR10g [W/kg]	0.420	0.448
Power Drift [dB]	-0.02	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº19

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 13, E-UTRA/FDD	LTE-FDD, 10175-CAG	782.0, 23230	9.84	0.920	40.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2-2022-07-12 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

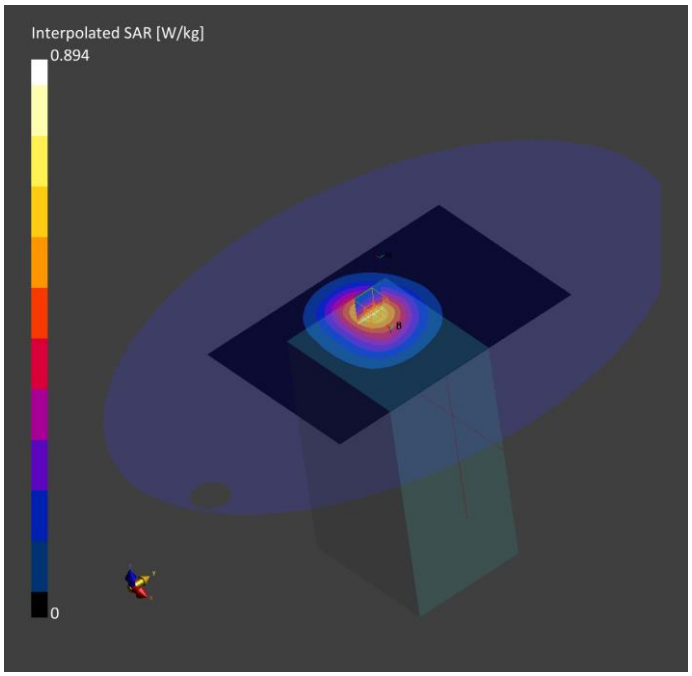
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-12, 15:54	2022-07-12, 16:06
psSAR1g [W/kg]	0.598	0.619
psSAR10g [W/kg]	0.414	0.438
Power Drift [dB]	-0.04	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.2
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº20

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 13, E-UTRA/FDD	LTE-FDD, 10175-CAG	782.0, 23230	10.0	1.00	53.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL750V2 - 2022-07-11 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

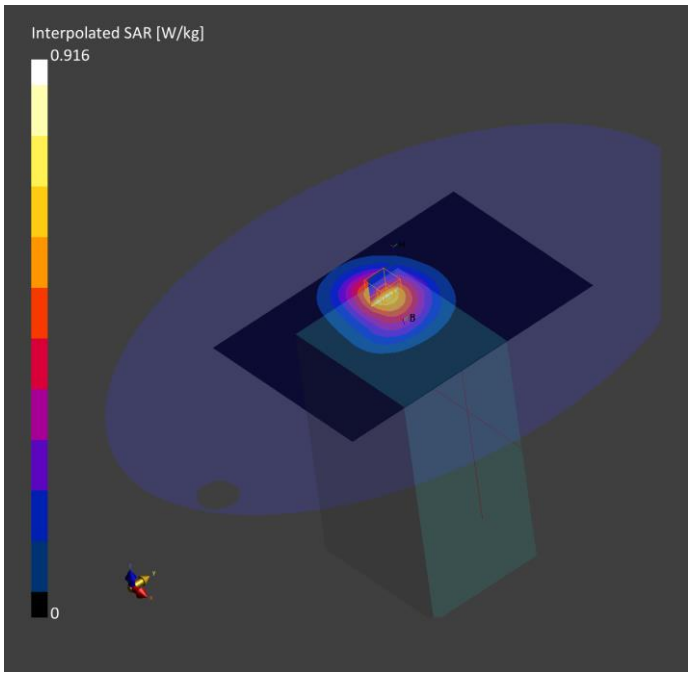
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-12, 08:52	2022-07-12, 08:59
psSAR1g [W/kg]	0.598	0.620
psSAR10g [W/kg]	0.412	0.438
Power Drift [dB]	0.03	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.9
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº21

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 26 E-UTRA/FDD	LTE-FDD, 10181-CAE	831.5, 26865	6.12	0.920	42.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-06-22 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

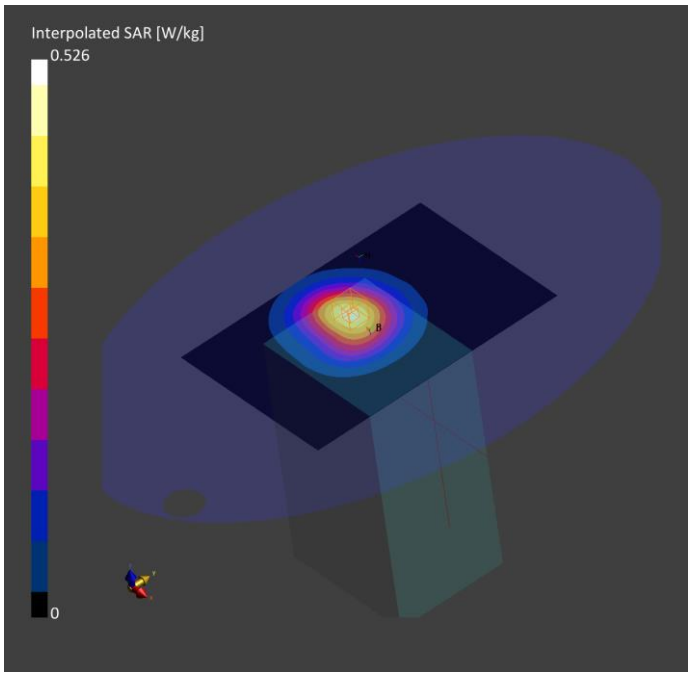
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-24, 08:07	2022-06-24, 08:13
psSAR1g [W/kg]	0.402	0.377
psSAR10g [W/kg]	0.279	0.269
Power Drift [dB]	0.02	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		90.8
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº22

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 26 E-UTRA/FDD	LTE-FDD, 10181-CAE	831.5, 26865	6.11	0.960	57.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL900V2-2022-06-25 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

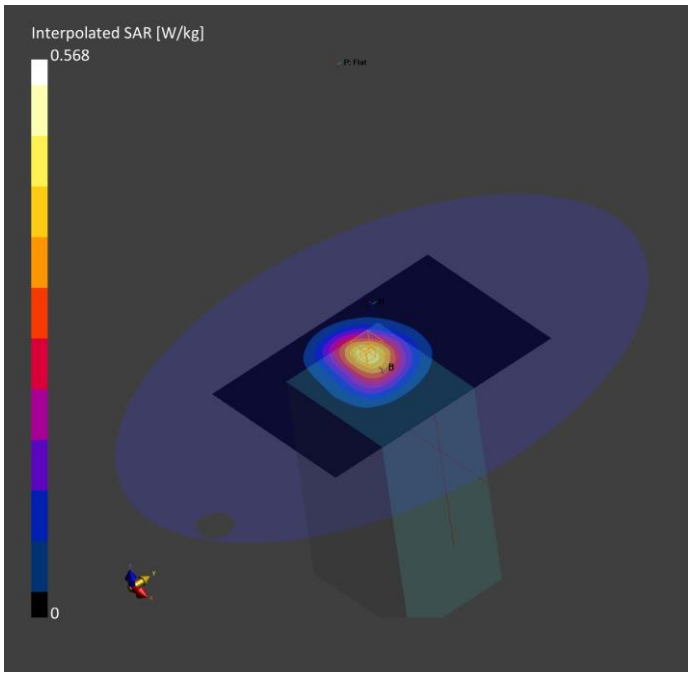
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-25, 13:39	2022-06-25, 13:45
psSAR1g [W/kg]	0.408	0.418
psSAR10g [W/kg]	0.281	0.302
Power Drift [dB]	-0.07	-0.18
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		92.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº23

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	Band 38, E-UTRA/TDD	LTE-TDD, 10435-AAF	2610.0, 38150	7.27	2.02	37.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022-07-06 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

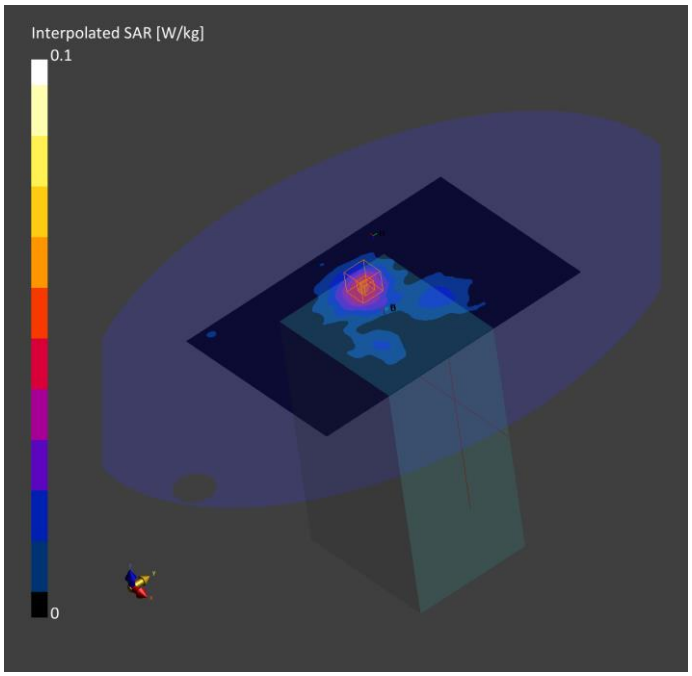
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06, 14:49	2022-07-06, 14:57
psSAR1g [W/kg]	0.042	0.045
psSAR10g [W/kg]	0.024	0.026
Power Drift [dB]	-0.20	-0.31
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.1
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº24

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	Band 38, E-UTRA/TDD	LTE-TDD, 10435-AAF	2580.0, 37850	7.48	2.09	52.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1900-3800V3 - 2600MHz - 2022-07-11 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

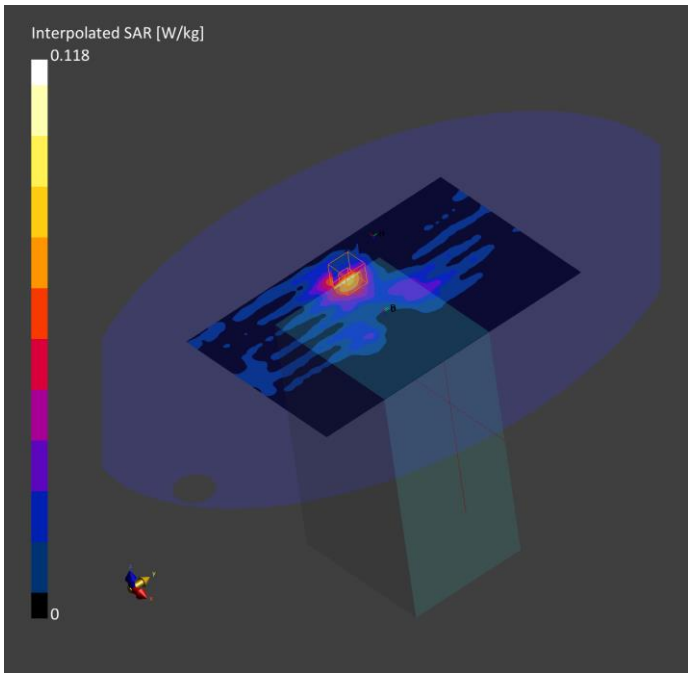
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-11, 14:40	2022-07-11, 14:48
psSAR1g [W/kg]	0.057	0.067
psSAR10g [W/kg]	0.032	0.041
Power Drift [dB]	0.61	0.43
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.9
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)	Power drift exceeds warning threshold.	Power drift exceeds warning threshold.
Error(s)		



Plot Nº25

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 15.00	Band 41, E-UTRA/TDD	LTE-TDD, 10494-AAF	2506.0, 39750	7.27	1.91	37.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022-07-06 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

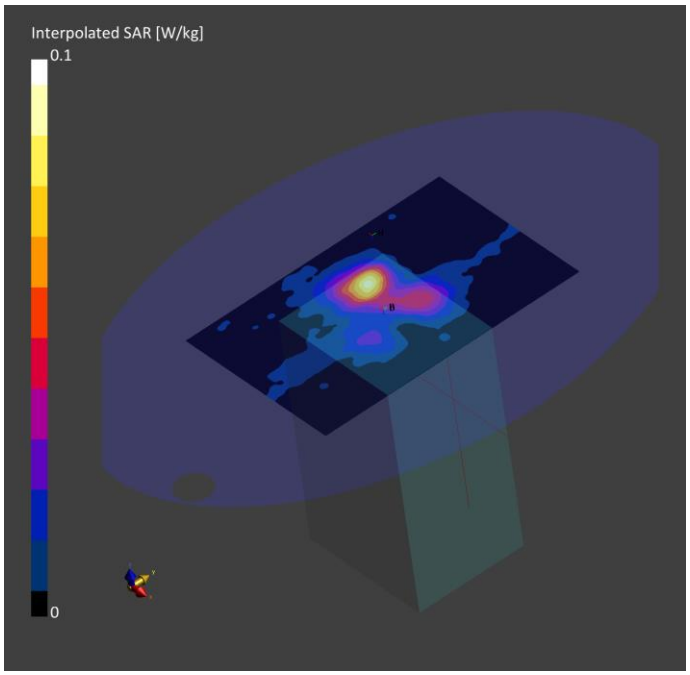
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06, 20:40	2022-07-06, 20:47
psSAR1g [W/kg]	0.070	0.070
psSAR10g [W/kg]	0.038	0.039
Power Drift [dB]	-0.09	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.2
Dist 3dB Peak [mm]		14.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº26

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 15.00	Band 41, E-UTRA/TDD	LTE-TDD, 10435-AAF	2506.0, 39750	7.48	1.99	52.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1900-3800V3 - 2600MHz - 2022-07-07 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

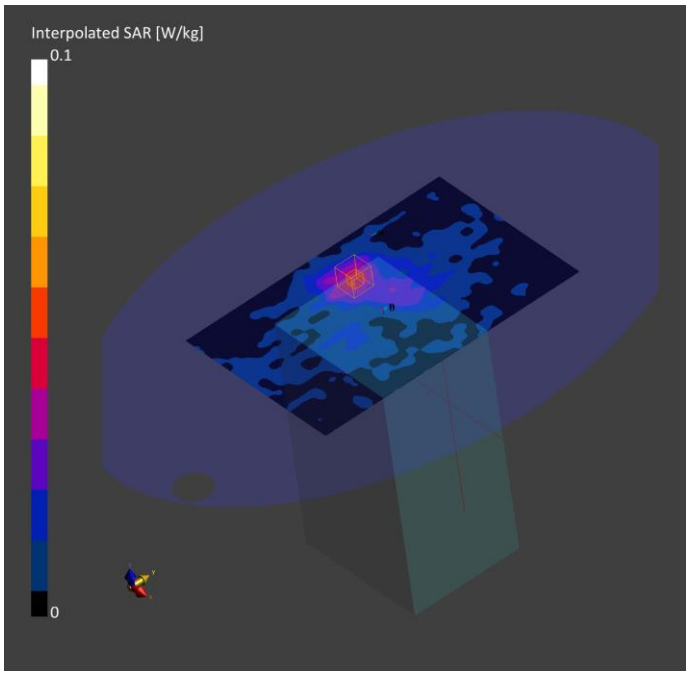
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-08, 13:33	2022-07-08, 13:40
psSAR1g [W/kg]	0.040	0.043
psSAR10g [W/kg]	0.023	0.029
Power Drift [dB]	-0.00	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.1
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº27

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Left, 20.00	GSM 850	GSM, 10027-DAC	824.2, 128	6.12	0.910	42.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-06-24 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

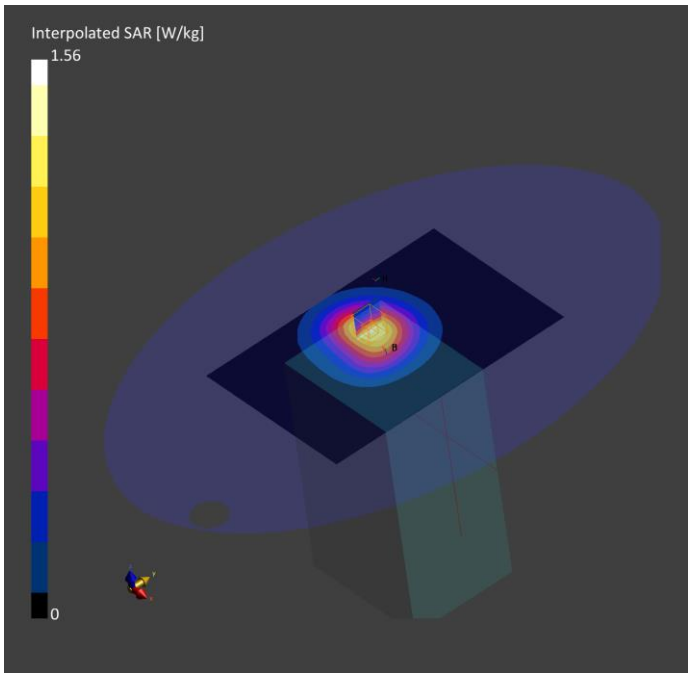
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-25, 07:32	2022-06-25, 07:39
psSAR1g [W/kg]	1.16	1.12
psSAR10g [W/kg]	0.802	0.799
Power Drift [dB]	-0.18	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		90.8
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº28

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	240.0 x 140.0 x 115.0		CPAP device

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	Left, 20.00	GSM 850	GSM, 10027-DAC	824.2, 128	6.11	0.950	57.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL900V2-2022-06-25 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

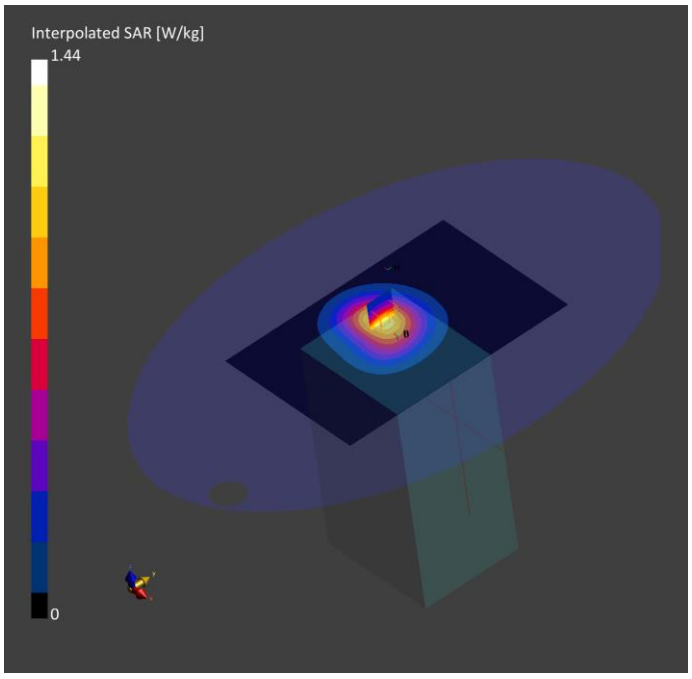
	Area Scan	Zoom Scan
Grid Extents [mm]	180.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-25, 12:03	2022-06-25, 12:10
psSAR1g [W/kg]	1.05	1.06
psSAR10g [W/kg]	0.719	0.771
Power Drift [dB]	0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.5
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Appendix D: System Validation Report

Validation results in 750 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	750.0, 0	9.84	0.900	40.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2-2022-07-12 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

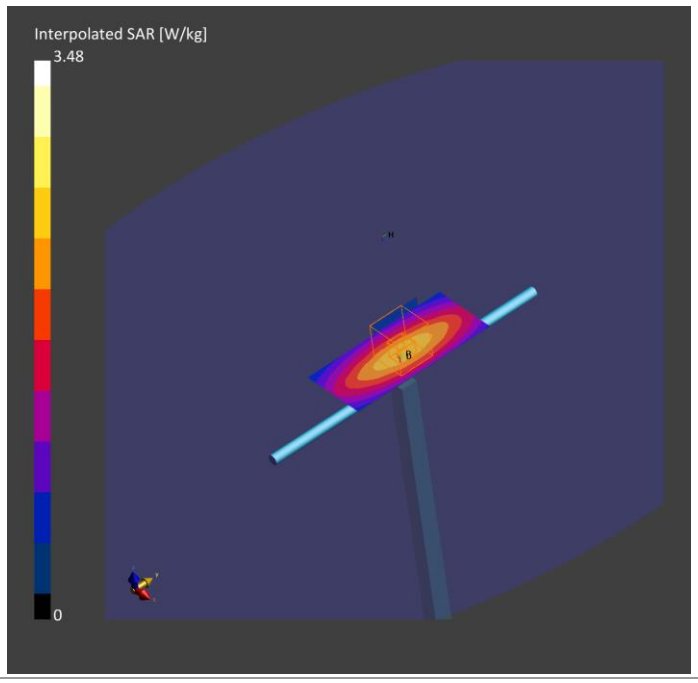
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-12, 13:09	2022-07-12, 13:14
psSAR1g [W/kg]	2.26	2.20
psSAR10g [W/kg]	1.51	1.44
Power Drift [dB]	-0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.7
Dist 3dB Peak [mm]		20.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 750 MHz Band for Body TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	,		, 0--	750.0, 0	10.0	0.970	53.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL750V2 - 2022-07-11 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

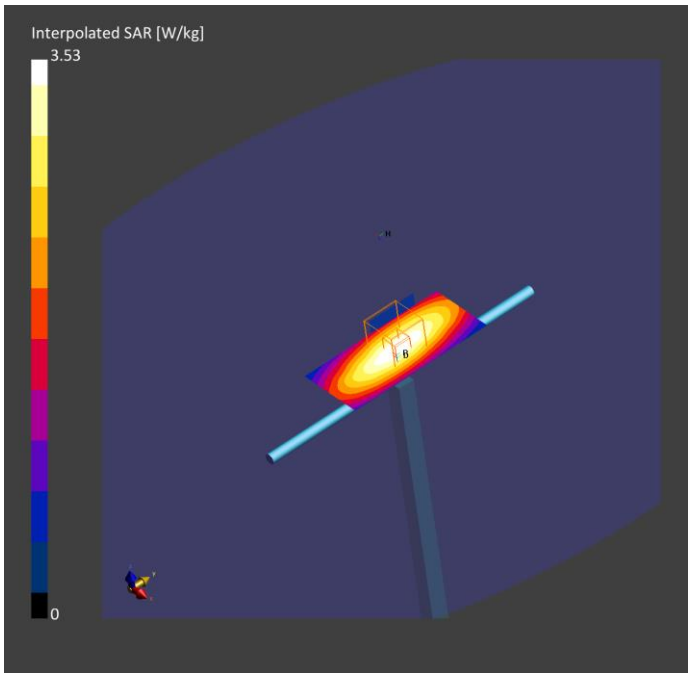
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-11, 20:25	2022-07-11, 20:30
psSAR1g [W/kg]	2.27	2.25
psSAR10g [W/kg]	1.51	1.48
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.1
Dist 3dB Peak [mm]		16.7

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 900 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	900.0, 0	6.12	0.990	41.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-06-22 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

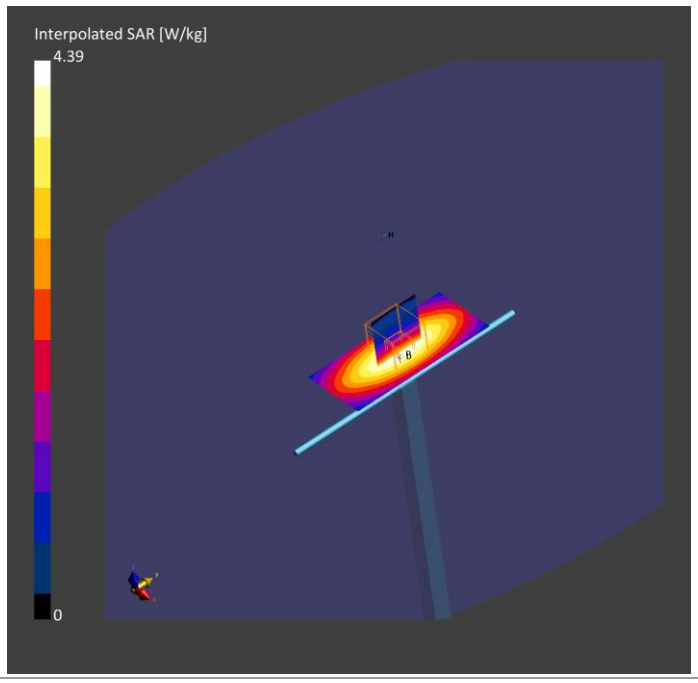
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-22, 12:36	2022-06-22, 12:41
psSAR1g [W/kg]	2.84	2.79
psSAR10g [W/kg]	1.85	1.78
Power Drift [dB]	0.02	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.1
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 900 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	900.0, 0	6.12	0.990	41.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-06-24 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

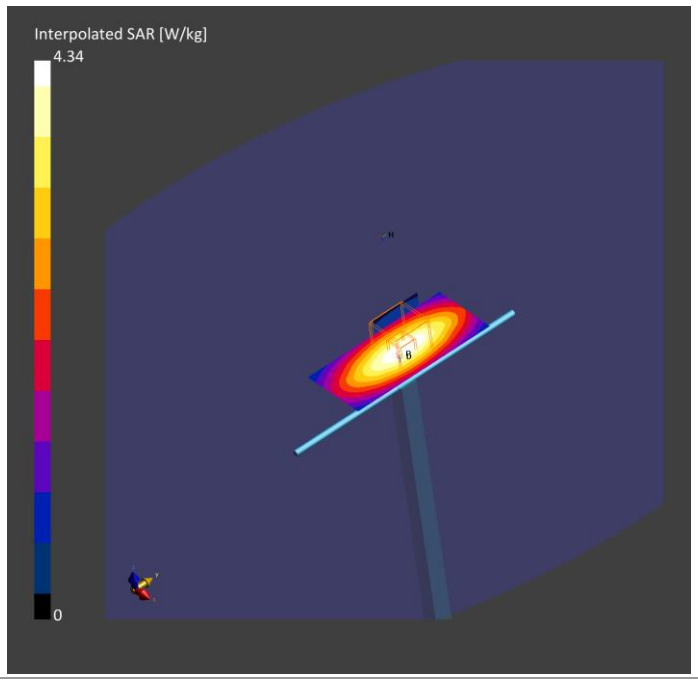
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-24, 14:15	2022-06-24, 14:21
psSAR1g [W/kg]	2.81	2.74
psSAR10g [W/kg]	1.82	1.75
Power Drift [dB]	0.14	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.5
Dist 3dB Peak [mm]		20.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 900 MHz Band for Body TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	,		, 0--	900.0, 0	6.11	1.02	56.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL900V2-2022-06-25 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

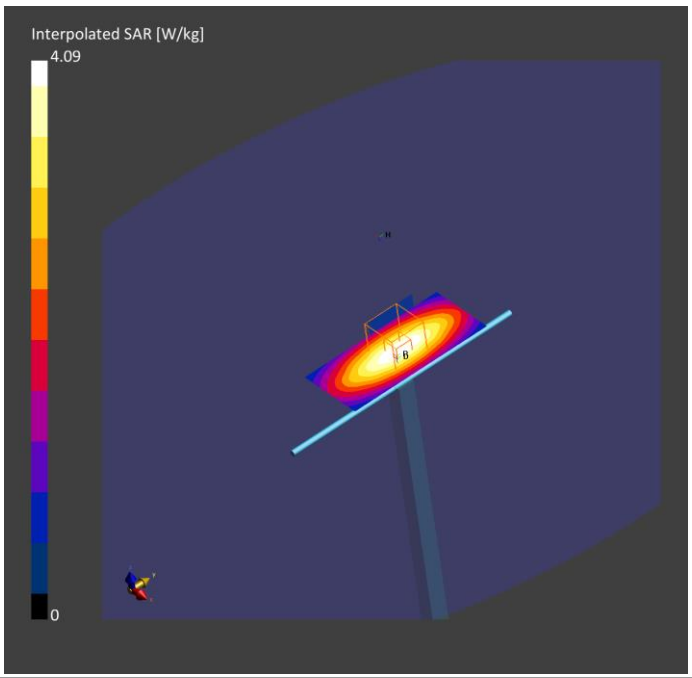
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-25, 10:14	2022-06-25, 10:19
psSAR1g [W/kg]	2.75	2.69
psSAR10g [W/kg]	1.78	1.74
Power Drift [dB]	-0.00	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		89.0
Dist 3dB Peak [mm]		17.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 900 MHz Band for Body TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	,		, 0--	900.0, 0	6.11	1.02	56.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MSL900V2-2022-06-25 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

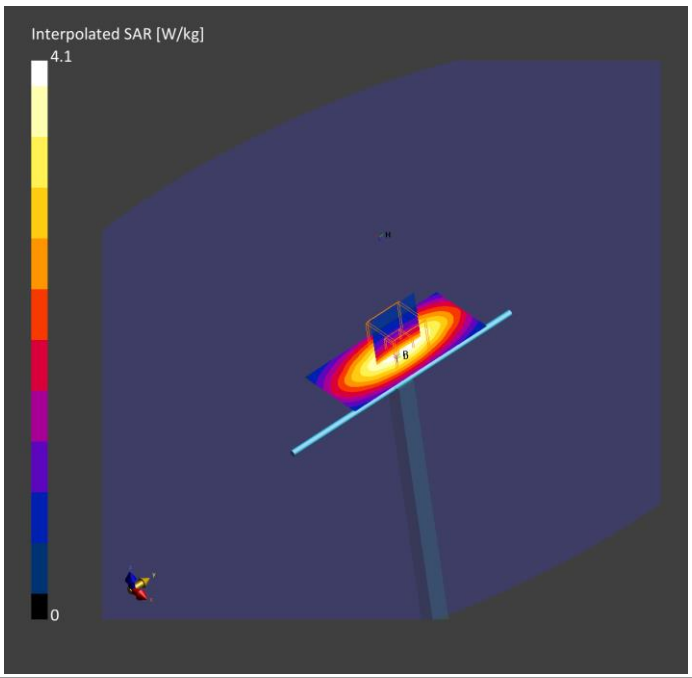
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27, 10:31	2022-06-27, 10:36
psSAR1g [W/kg]	2.75	2.69
psSAR10g [W/kg]	1.78	1.75
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		89.2
Dist 3dB Peak [mm]		16.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 1800 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	1800.0, 0	5.28	1.35	39.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-06-28 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

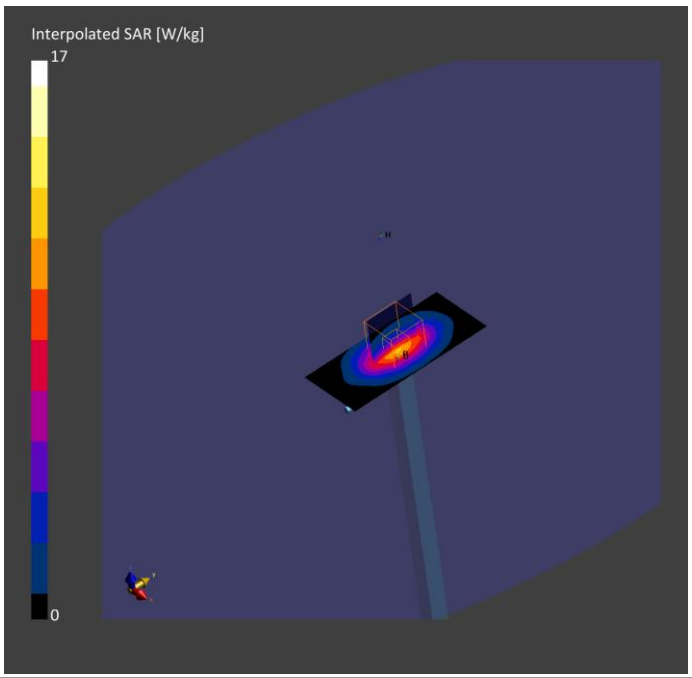
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-28, 13:01	2022-06-28, 13:06
psSAR1g [W/kg]	9.35	9.14
psSAR10g [W/kg]	4.95	4.79
Power Drift [dB]	0.01	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.8
Dist 3dB Peak [mm]		10.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 1800 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	1800.0, 0	5.28	1.39	39.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1700MHz-2022-06-28 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

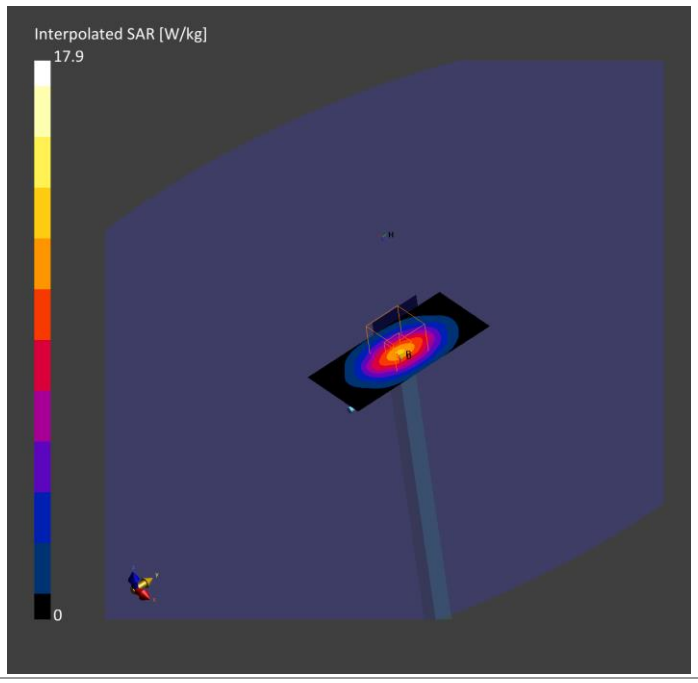
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-29, 14:14	2022-06-29, 14:19
psSAR1g [W/kg]	9.70	9.56
psSAR10g [W/kg]	5.12	4.97
Power Drift [dB]	0.04	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.9
Dist 3dB Peak [mm]		10.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 1800 MHz Band for Body TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	,		, 0--	1800.0, 0	5.17	1.54	51.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1550-1950-1700MHz-2022-06-30 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

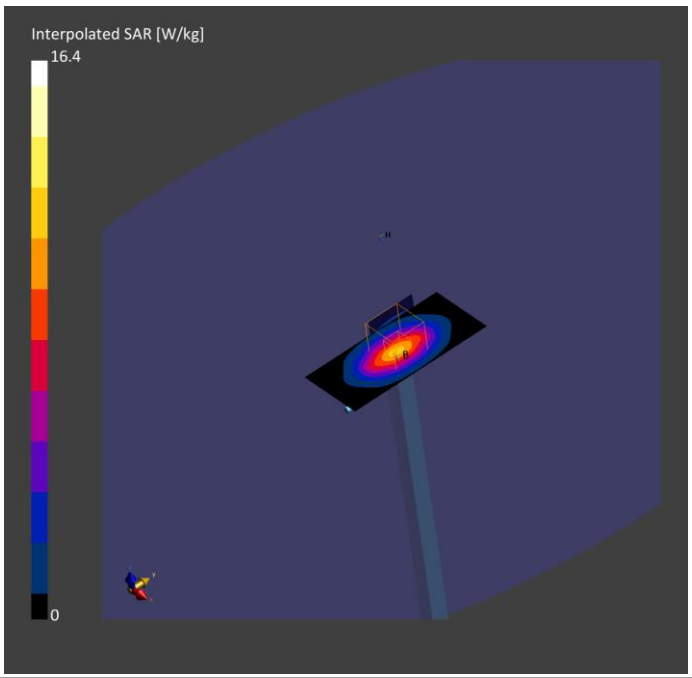
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-30, 11:21	2022-06-30, 11:26
psSAR1g [W/kg]	9.26	9.15
psSAR10g [W/kg]	4.77	4.82
Power Drift [dB]	0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.2
Dist 3dB Peak [mm]		10.7

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 1800 MHz Band for Body TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	,		, 0--	1800.0, 0	5.17	1.47	51.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1550-1950-1700MHz-2022-07-04 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

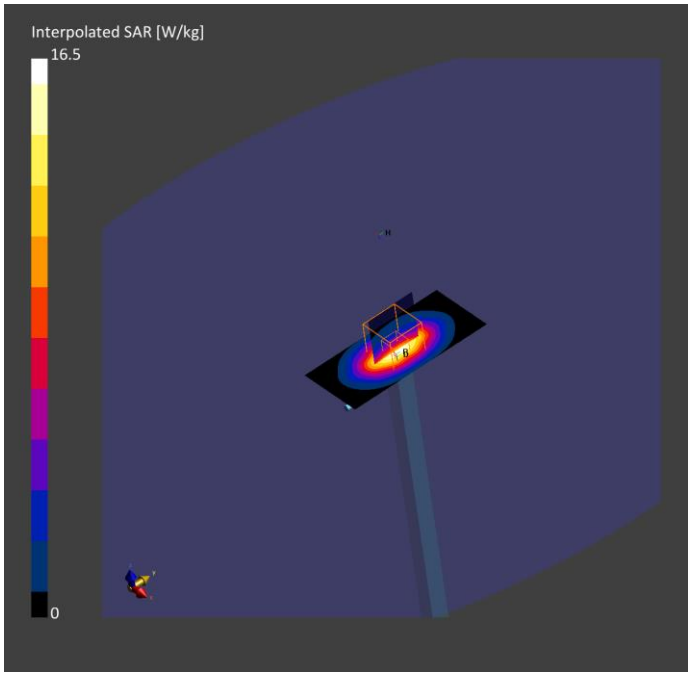
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-04, 09:11	2022-07-04, 09:16
psSAR1g [W/kg]	9.24	9.08
psSAR10g [W/kg]	4.74	4.75
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.0
Dist 3dB Peak [mm]		10.7

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 2600 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.27	2.01	37.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022-07-06 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

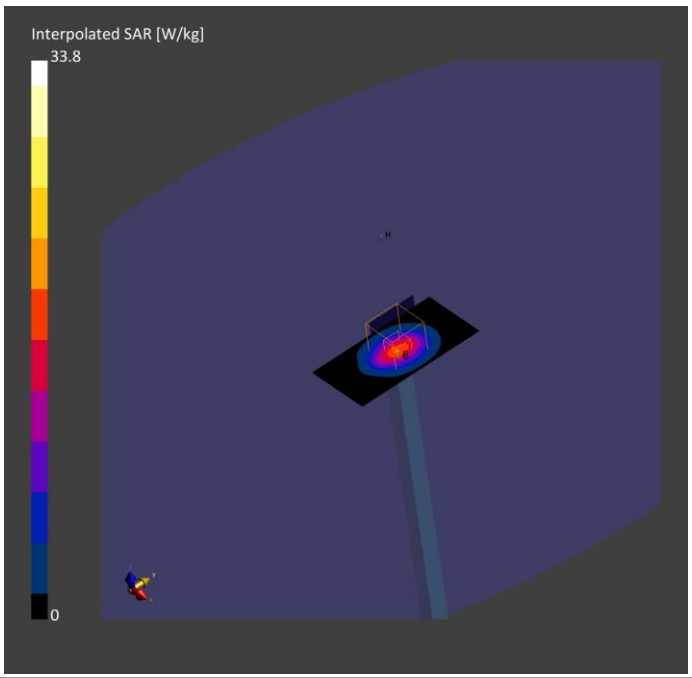
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-06, 09:43	2022-07-06, 09:49
psSAR1g [W/kg]	14.9	14.5
psSAR10g [W/kg]	6.67	6.29
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.2
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 2600 MHz Band for Body TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	,		, 0--	2600.0, 0	7.48	2.09	52.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1900-3800V3 - 2600MHz - 2022-07-07 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

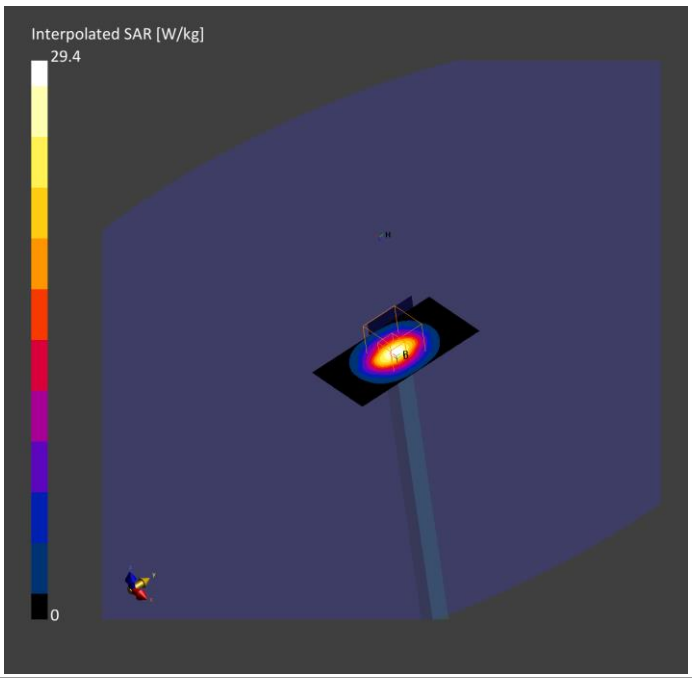
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-07, 20:21	2022-07-07, 20:27
psSAR1g [W/kg]	14.0	14.0
psSAR10g [W/kg]	6.18	6.50
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.1
Dist 3dB Peak [mm]		8.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 2600 MHz Band for Body TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
RESMED,	50.0 x 10.0 x 115.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, MSL	,		, 0--	2600.0, 0	7.48	2.11	52.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	MBBL1900-3800V3 - 2600MHz - 2022-07-11 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-11, 09:38	2022-07-11, 09:44
psSAR1g [W/kg]	14.0	14.3
psSAR10g [W/kg]	6.33	6.72
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.1
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)