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CNAS L0570

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Client **CATR(Chongqing)**

Certificate No: **Z20-60405**

CALIBRATION CERTIFICATE

Object **D2450V2 - SN: 886**

Calibration Procedure(s) **FF-Z11-003-01**
Calibration Procedures for dipole validation kits

Calibration date: **October 13, 2020**

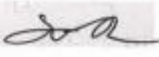
This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	12-May-20 (CTTL, No.J20X02965)	May-21
Power sensor NRP6A	101369	12-May-20 (CTTL, No.J20X02965)	May-21
ReferenceProbe EX3DV4	SN 3617	30-Jan-20(SPEAG,No.EX3-3617_Jan20)	Jan-21
DAE4	SN 771	10-Feb-20(CTTL-SPEAG,No.Z20-60017)	Feb-21

Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Feb-20 (CTTL, No.J20X00516)	Feb-21
NetworkAnalyzer E5071C	MY46110673	10-Feb-20 (CTTL, No.J20X00515)	Feb-21

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: October 22, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z20-60405

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	39.0 $\pm$ 6 %	1.81 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.8 W/kg $\pm$ 18.8 % ($k=2$)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.7 W/kg $\pm$ 18.7 % ($k=2$)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	53.2 $\pm$ 6 %	1.96 mho/m $\pm$ 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	51.7 W/kg $\pm$ 18.8 % ($k=2$)
SAR averaged over 10 cm^3 (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	5.97 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.9 W/kg $\pm$ 18.7 % ($k=2$)

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.2Ω+ 3.85 jΩ
Return Loss	- 27.2dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.5Ω+ 4.57 jΩ
Return Loss	- 26.8dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.024 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

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DASY5 Validation Report for Head TSL

Date: 10.13.2020

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 886

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.809$ S/m; $\epsilon_r = 39.02$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.65, 7.65, 7.65) @ 2450 MHz; Calibrated: 2020-01-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn771; Calibrated: 2020-02-10
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Reference Value = 106.1 V/m; Power Drift = -0.07 dB

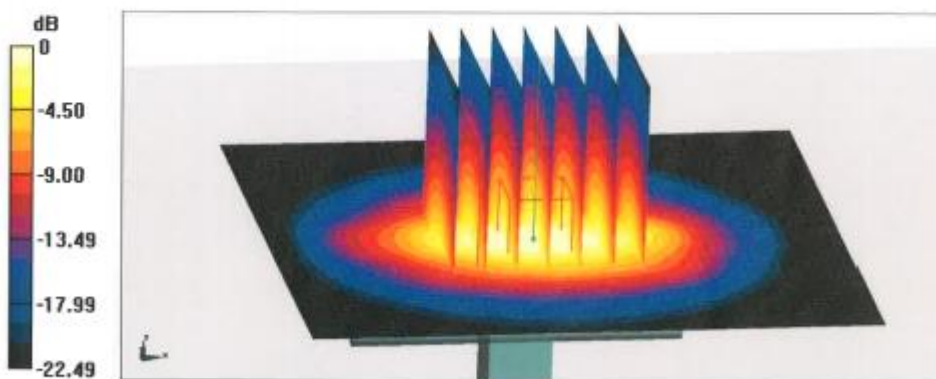
Peak SAR (extrapolated) = 28.3 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.18 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 22.7 W/kg



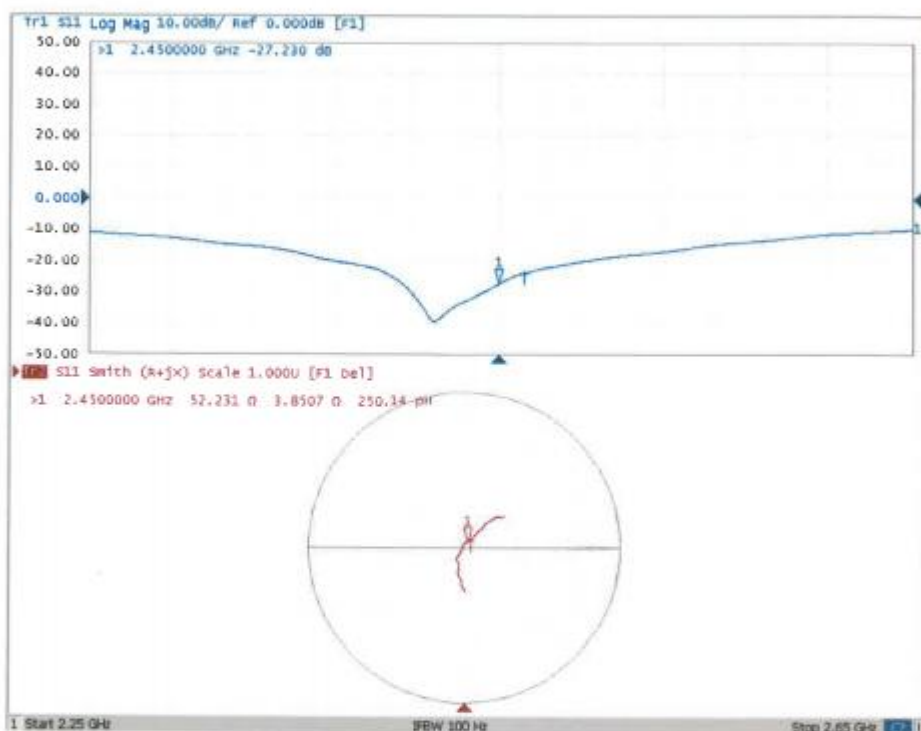
0 dB = 22.7 W/kg = 13.56 dBW/kg



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Impedance Measurement Plot for Head TSL





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DASY5 Validation Report for Body TSL

Date: 10.13.2020

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 886

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.955 \text{ S/m}$; $\epsilon_r = 53.24$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.76, 7.76, 7.76) @ 2450 MHz; Calibrated: 2020-01-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn771; Calibrated: 2020-02-10
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Reference Value = 100.1 V/m; Power Drift = 0.02 dB

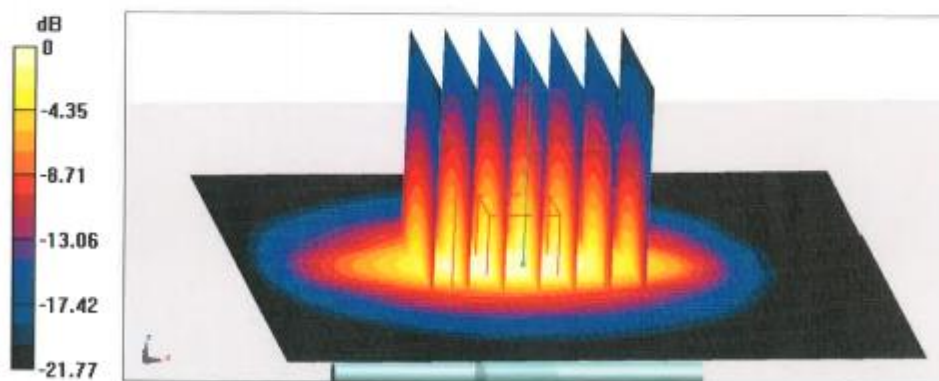
Peak SAR (extrapolated) = 26.5 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.97 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 21.5 W/kg



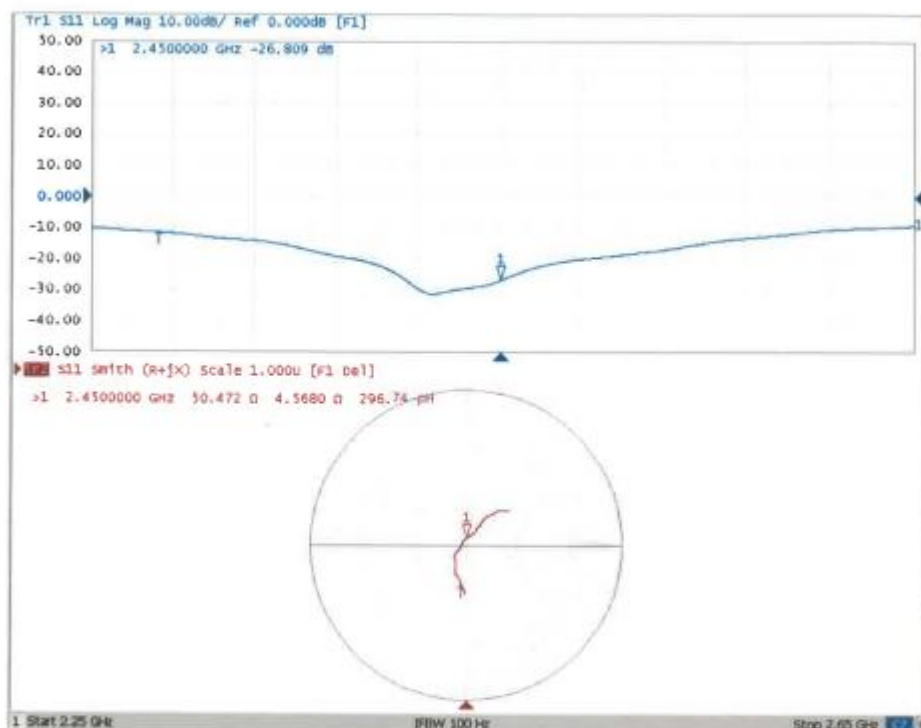
0 dB = 21.5 W/kg = 13.32 dBW/kg



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Impedance Measurement Plot for Body TSL

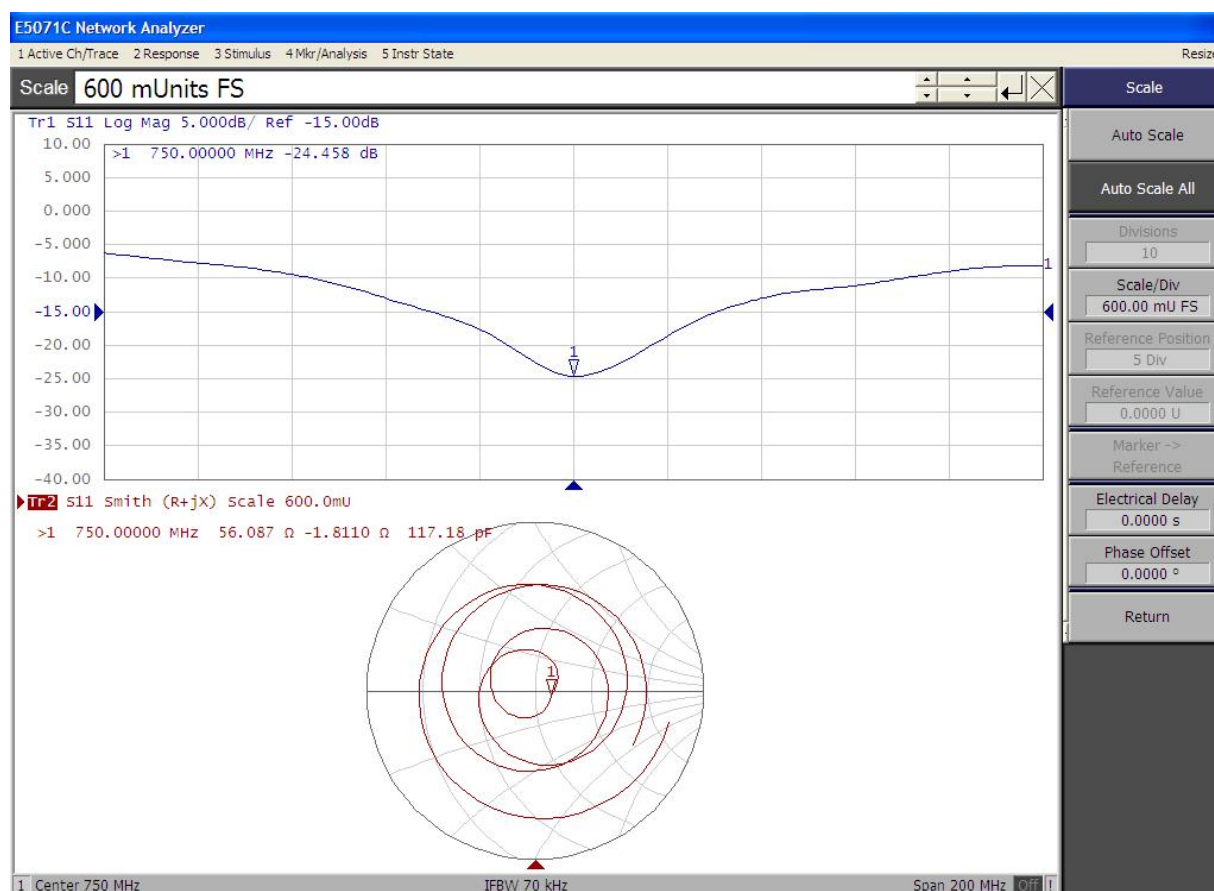


ANNEX D. Extended Calibration SAR Dipole

Referring to KDB865664 D01, if dipoles are verified in return loss (<-20dBm, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

Justification of Extended Calibration SAR Dipole D750V3– serial no.1037

Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)
2021-4-17	-25.78	\	55.2	\	1.6	\
2022-4-8	-24.46	5.12	56.1	0.9	-1.8	-3.4



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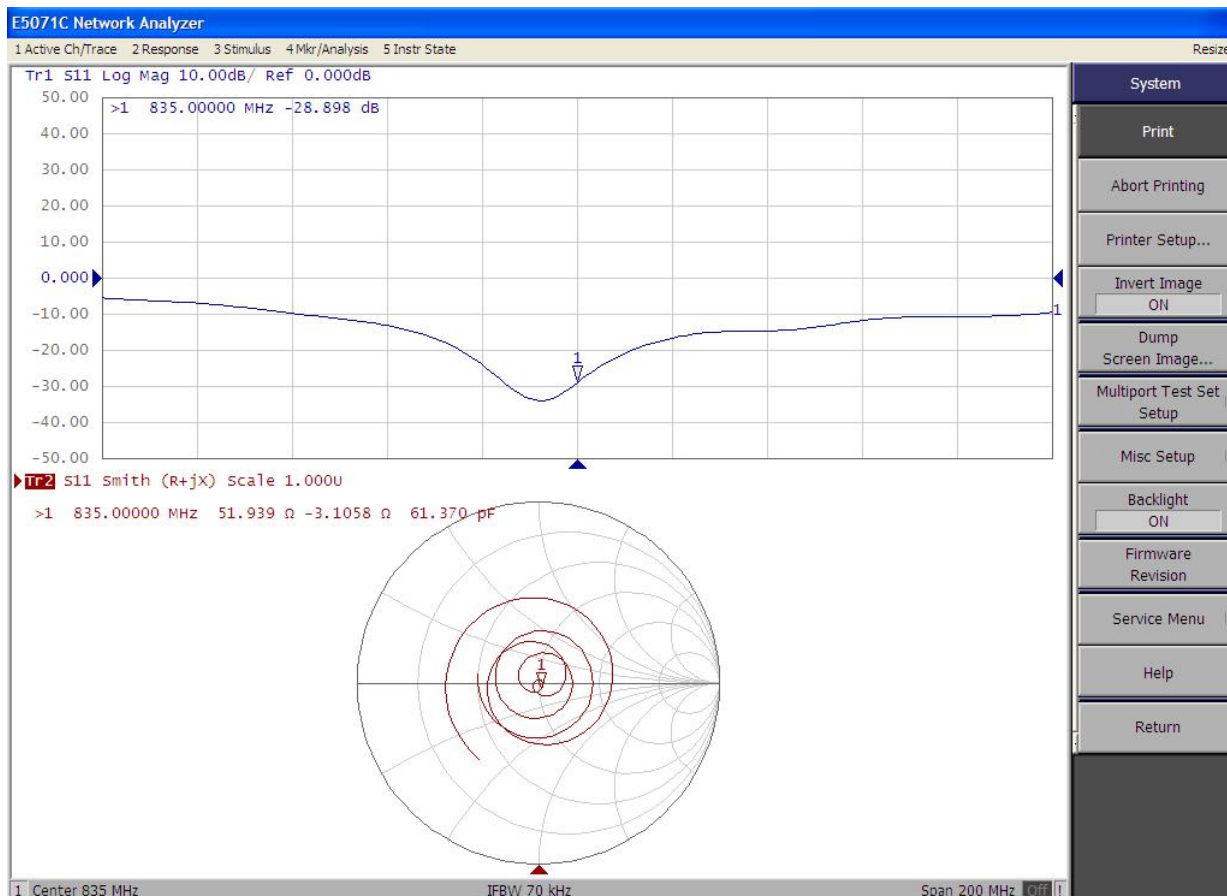
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Justification of Extended Calibration SAR Dipole D835V2– serial no.4d135

Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)
2020-10-16	-27.87	\	50.1	\	-4.0	\
2021-10-8	-28.90	3.70	51.9	1.8	-3.1	0.9



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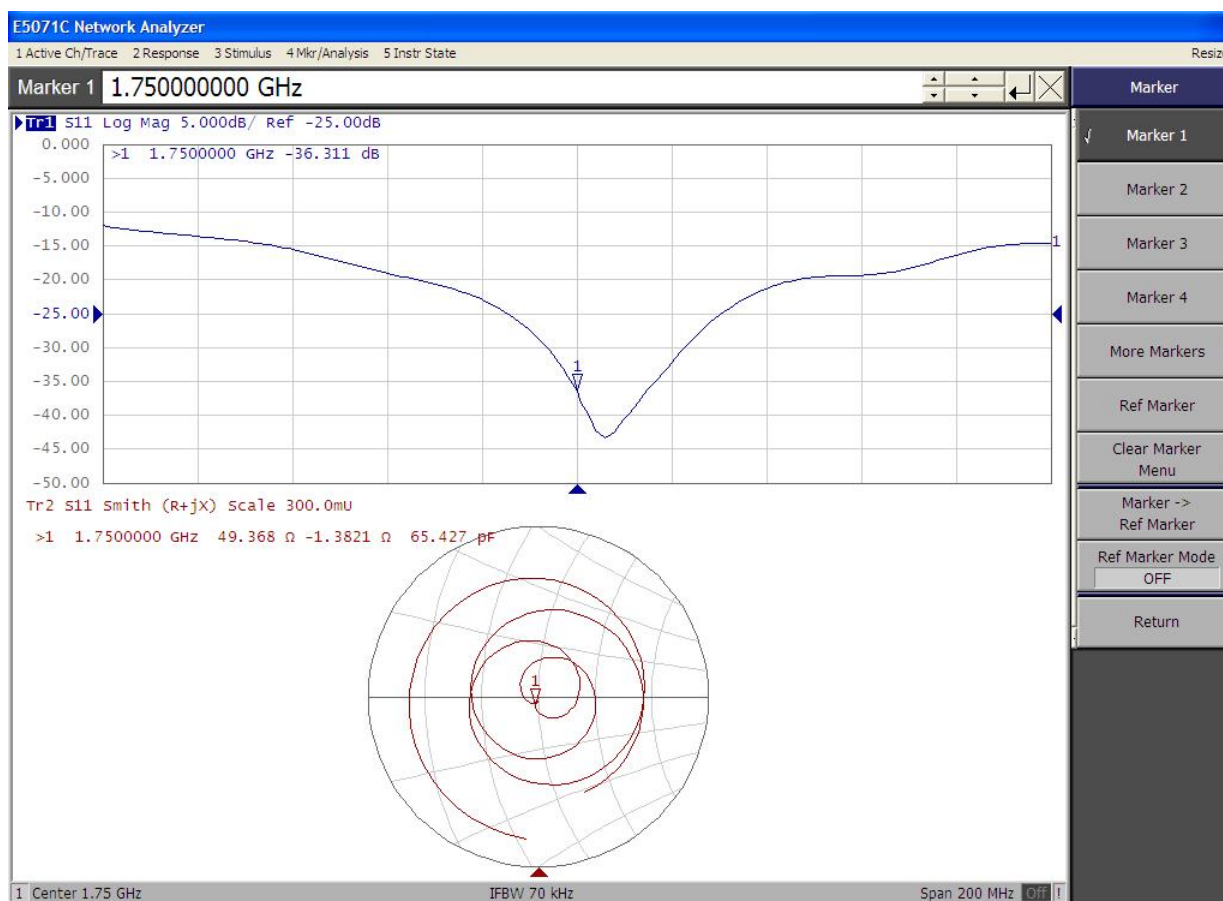
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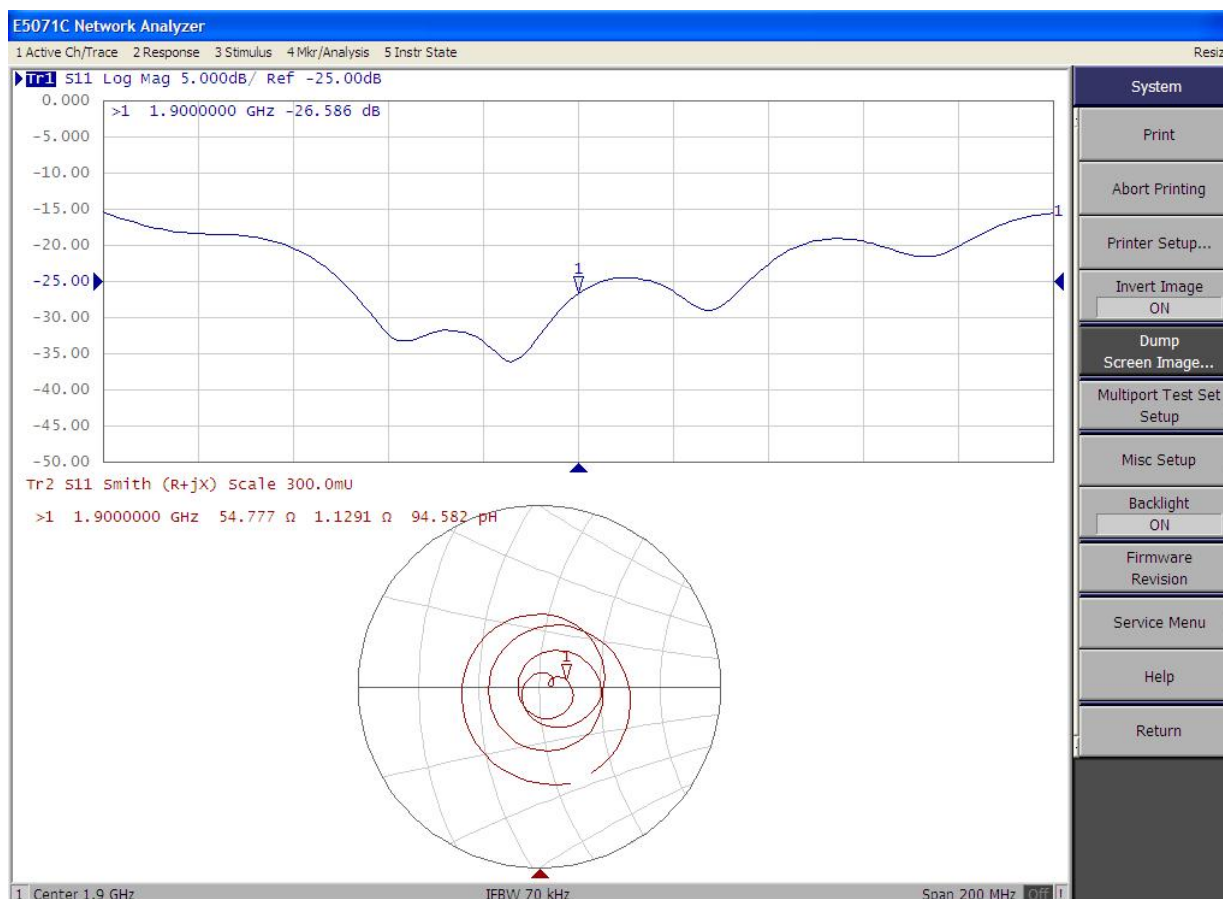
Justification of Extended Calibration SAR Dipole D1750V2– serial no.1063

Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)
2020-10-15	-38.50	\	49.4	\	-1.0	\
2021-10-11	-36.31	5.69	49.4	0	-1.4	-0.4



Justification of Extended Calibration SAR Dipole D1900V2– serial no.5d153

Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)
2020-10-14	-25.48	\	51.7	\	5.2	\
2021-10-11	-26.59	4.36	54.8	3.1	1.1	-4.1



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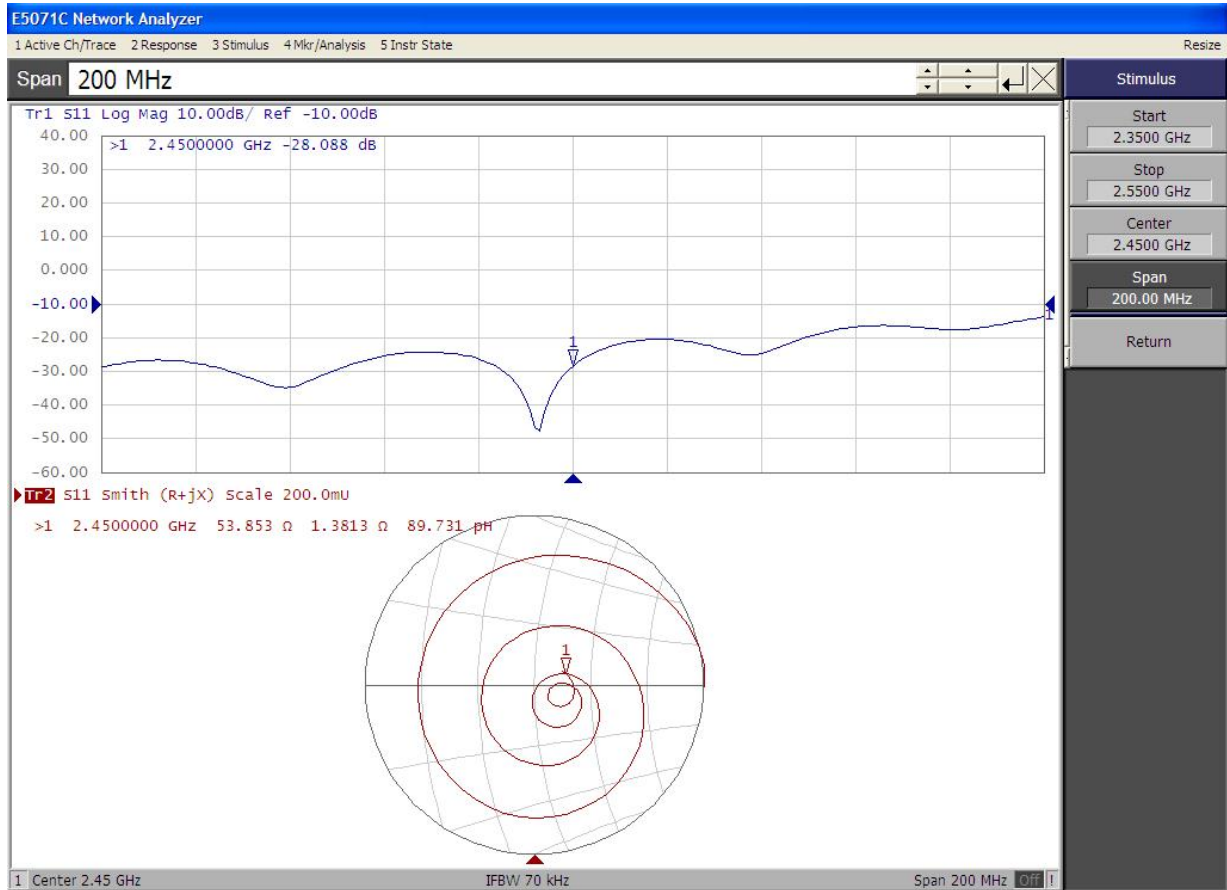
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Justification of Extended Calibration SAR Dipole D2450V2– serial no.886

Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)
2020-10-13	-27.23	\	52.2	\	3.9	\
2021-10-8	-28.09	3.16	53.9	1.7	1.4	-2.5



ANNEX E. Variant Product Test

E.1 Dielectric Performance and System Validation

Table E.1-1: Dielectric Performance of Head Tissue Simulating Liquid

Measurement Value						
Liquid Temperature: 22.5℃						
Type	Frequency (MHz)	Permittivity ϵ	Drift (%)	Conductivity σ	Drift (%)	Test Date
Head	750	40.717	-2.92	0.902	1.08	2022-06-03
Head	835	41.963	0.98	0.904	-0.66	2022-06-03
Head	1900	40.228	0.57	1.414	1.00	2022-06-04
Head	2600	38.061	-2.43	1.886	-3.95	2022-06-05

Table E.1-2: System Validation of Head

Verification Results							
Input power level: 1W							
Frequency	Target value (W/kg)		Measured value (W/kg)		Deviation		Test date
	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	
750MHz	2.07	1.37	1.92	1.44	-7.24%	5.11%	2022-06-03
835MHz	2.40	1.60	2.36	1.73	1.67%	8.13%	2022-06-03
1900 MHz	9.78	5.04	9.46	4.93	-3.27%	-2.18%	2022-06-04
2600 MHz	13.9	6.14	15.00	6.06	7.91%	-1.30%	2022-06-05

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E.2 Newly added Frequency Bands

E.2.1 Conducted power of selected case

LTE BAND 13 power level B1/C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	779.5(23205)	24.30	23.44	22.81
		782(23230)	24.28	23.26	22.55
		784.5(23255)	24.28	23.27	22.19
	1RB-Middle (12)	779.5(23205)	24.37	23.50	22.78
		782(23230)	24.40	23.38	22.49
		784.5(23255)	24.41	23.37	22.08
	1RB-Low (0)	779.5(23205)	24.29	23.43	22.78
		782(23230)	24.31	23.24	22.49
		784.5(23255)	24.26	23.17	22.08
	12RB-High (13)	779.5(23205)	23.19	22.19	21.21
		782(23230)	23.20	22.28	21.18
		784.5(23255)	23.13	22.11	21.16
	12RB-Middle (6)	779.5(23205)	23.34	22.44	21.29
		782(23230)	23.35	22.33	21.51
		784.5(23255)	23.35	22.38	21.38
	12RB-Low (0)	779.5(23205)	23.05	22.06	21.06
		782(23230)	23.17	22.18	21.12
		784.5(23255)	23.12	22.11	21.15
	25RB (0)	779.5(23205)	23.27	22.28	21.31
		782(23230)	23.30	22.36	21.39
		784.5(23255)	23.29	22.31	21.34
10MHz	1RB-High (49)	782(23230)	24.12	23.11	21.95
	1RB-Middle (24)	782(23230)	24.43	23.41	22.21
	1RB-Low (0)	782(23230)	24.22	23.23	22.02
	25RB-High (25)	782(23230)	23.37	22.31	21.51
	25RB-Middle (12)	782(23230)	23.31	22.32	21.40
	25RB-Low (0)	782(23230)	23.25	22.20	21.37
	50RB (0)	782(23230)	23.29	22.30	21.32

LTE BAND 13 power level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	779.5(23205)	22.31	22.46	22.78
		782(23230)	22.29	22.31	22.56
		784.5(23255)	22.29	22.29	22.2
	1RB-Middle (12)	779.5(23205)	22.38	22.55	22.77
		782(23230)	22.4	22.4	22.55
		784.5(23255)	22.36	22.42	22.13
	1RB-Low (0)	779.5(23205)	22.29	22.48	22.77
		782(23230)	22.29	22.29	22.55
		784.5(23255)	22.22	22.18	22.13
	12RB-High (13)	779.5(23205)	22.24	22.32	21.2
		782(23230)	22.26	22.23	21.28
		784.5(23255)	22.21	22.23	21.28
	12RB-Middle (6)	779.5(23205)	22.32	22.43	21.3
		782(23230)	22.37	22.35	21.49
		784.5(23255)	22.36	22.39	21.38
	12RB-Low (0)	779.5(23205)	22.16	22.18	21.12
		782(23230)	22.21	22.24	21.24
		784.5(23255)	22.23	22.21	21.35
	25RB (0)	779.5(23205)	22.32	22.29	21.29
		782(23230)	22.34	22.37	21.41
		784.5(23255)	22.31	22.3	21.34
10MHz	1RB-High (49)	782(23230)	22.03	22.17	21.91
	1RB-Middle (24)	782(23230)	22.36	22.48	22.26
	1RB-Low (0)	782(23230)	22.10	22.16	21.95
	25RB-High (25)	782(23230)	22.31	22.15	21.39
	25RB-Middle (12)	782(23230)	22.28	22.23	21.37
	25RB-Low (0)	782(23230)	22.19	22.16	21.28
	50RB (0)	782(23230)	22.25	22.23	21.26

LTE BAND 25 power level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3(26683)	23.57	22.22	21.58
		1882.5(26365)	23.11	22.43	21.41
		1850.7(26047)	23.33	22.06	21.42
	1RB-Middle (3)	1914.3(26683)	24.01	22.73	22.05
		1882.5(26365)	23.48	22.91	21.81
		1850.7(26047)	23.59	22.36	21.91
	1RB-Low (0)	1914.3(26683)	23.81	22.51	21.77
		1882.5(26365)	23.29	22.66	21.50
		1850.7(26047)	23.39	22.18	21.56
	3RB-High (3)	1914.3(26683)	23.65	22.75	21.85
		1882.5(26365)	23.41	22.68	21.54
		1850.7(26047)	23.49	22.51	21.81
	3RB-Middle (1)	1914.3(26683)	23.85	22.94	21.96
		1882.5(26365)	23.51	22.74	21.60
		1850.7(26047)	23.53	22.64	21.94
	3RB-Low (0)	1914.3(26683)	23.78	22.83	21.84
		1882.5(26365)	23.43	22.67	21.53
		1850.7(26047)	23.51	22.58	21.89
	6RB (0)	1914.3(26683)	22.95	22.05	21.32
		1882.5(26365)	22.43	21.31	20.61
		1850.7(26047)	22.59	21.81	20.51
3MHz	1RB-High (14)	1913.5(26675)	23.51	22.21	21.68
		1882.5(26365)	23.32	22.06	21.44
		1851.5(26055)	23.25	22.58	21.63
	1RB-Middle (7)	1912.5(26665)	23.96	22.65	21.97
		1882.5(26365)	23.47	22.48	21.84
		1851.5(26055)	23.65	22.96	21.98
	1RB-Low (0)	1912.5(26665)	23.74	22.53	21.75
		1882.5(26365)	23.29	22.31	21.68
		1851.5(26055)	23.44	22.79	21.78
	8RB-High (7)	1912.5(26665)	22.86	21.82	21.06
		1882.5(26365)	22.42	21.43	20.53
		1851.5(26055)	22.52	21.60	20.62
	8RB-Middle (4)	1912.5(26665)	22.91	21.97	21.16
		1882.5(26365)	22.49	21.51	20.56
		1851.5(26055)	22.59	21.66	20.68
	8RB-Low (0)	1912.5(26665)	22.87	21.85	21.11
		1882.5(26365)	22.49	21.49	20.53
		1851.5(26055)	22.53	21.62	20.61
	15RB (0)	1912.5(26665)	22.79	21.79	21.05
		1882.5(26365)	22.45	21.49	20.56
		1851.5(26055)	22.51	21.53	20.61

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5MHz	1RB-High (24)	1912.5(26665)	23.25	22.92	21.70
		1882.5(26365)	23.11	22.05	21.65
		1852.5(26065)	23.22	22.22	21.23
	1RB-Middle (12)	1912.5(26665)	23.95	23.49	22.34
		1882.5(26365)	23.51	22.61	22.13
		1852.5(26065)	23.79	22.72	21.95
	1RB-Low (0)	1912.5(26665)	23.59	23.10	21.97
		1882.5(26365)	23.20	22.25	21.75
		1852.5(26065)	23.46	22.35	21.56
	12RB-High (13)	1912.5(26665)	22.69	21.81	20.88
		1882.5(26365)	22.40	21.45	20.52
		1852.5(26065)	22.54	21.51	20.58
	12RB-Middle (6)	1912.5(26665)	22.84	22.03	21.08
		1882.5(26365)	22.45	21.50	20.69
		1852.5(26065)	22.59	21.56	20.69
	12RB-Low (0)	1912.5(26665)	22.92	21.98	21.05
		1882.5(26365)	22.45	21.44	20.57
		1852.5(26065)	22.49	21.51	20.59
10MHz	1RB-High (49)	1910(26640)	23.64	22.78	21.96
		1882.5(26365)	23.31	22.18	21.63
		1855(26090)	23.20	22.09	21.82
	1RB-Middle (24)	1910(26640)	23.80	23.16	21.76
		1882.5(26365)	23.45	22.47	21.79
		1855(26090)	23.53	22.43	21.94
	1RB-Low (0)	1910(26640)	23.53	22.86	21.66
		1882.5(26365)	23.27	22.15	21.75
		1855(26090)	23.34	22.27	21.86
	25RB-High (25)	1910(26640)	22.67	21.73	20.97
		1882.5(26365)	22.43	21.56	20.69
		1855(26090)	22.49	21.51	20.63
	25RB-Middle (12)	1910(26640)	22.77	21.89	21.03
		1882.5(26365)	22.47	21.60	20.72
		1855(26090)	22.56	21.63	20.79
	25RB-Low (0)	1910(26640)	22.85	21.89	21.08
		1882.5(26365)	22.46	21.54	20.71
		1855(26090)	22.48	21.51	20.73
15MHz	1RB-High (74)	1907.5(26615)	23.44	22.25	21.95
		1882.5(26365)	23.02	22.40	21.15
		1857.5(26115)	23.03	22.03	22.05

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	1RB-Middle (37)	1907.5(26615)	23.86	22.81	22.38
		1882.5(26365)	23.53	22.93	21.57
		1857.5 (26115)	23.61	22.53	22.38
	1RB-Low (0)	1907.5(26615)	23.40	22.38	21.95
		1882.5(26365)	23.20	22.61	21.26
		1857.5 (26115)	23.44	22.23	22.13
	36RB-High (38)	1907.5(26615)	22.76	21.71	21.06
		1882.5(26365)	22.50	21.45	20.65
		1857.5 (26115)	22.53	21.45	20.78
	36RB-Middle (19)	1907.5(26615)	22.83	21.85	21.18
		1882.5(26365)	22.56	21.59	20.73
		1857.5 (26115)	22.59	21.54	20.74
	36RB-Low (0)	1907.5(26615)	22.72	21.79	21.02
		1882.5(26365)	22.49	21.20	20.71
		1857.5 (26115)	22.58	21.49	20.70
	75RB (0)	1907.5(26615)	22.71	21.78	20.94
		1882.5(26365)	22.49	21.46	20.64
		1857.5 (26115)	22.53	21.42	20.64
20MHz	1RB-High (99)	1905(26590)	23.54	22.62	21.99
		1882.5(26365)	23.18	22.13	21.01
		1860(26140)	23.05	22.25	21.27
	1RB-Middle (50)	1905(26590)	23.87	22.76	22.39
		1882.5(26365)	23.59	22.79	21.44
		1860(26140)	23.63	22.59	21.68
	1RB-Low (0)	1905(26590)	23.36	22.60	21.93
		1882.5(26365)	23.21	22.29	21.09
		1860(26140)	23.33	22.38	21.48
	50RB-High (50)	1905(26590)	22.58	21.61	20.59
		1882.5(26365)	22.44	21.43	20.43
		1860(26140)	22.35	21.38	20.46
	50RB-Middle (25)	1905(26590)	22.72	21.78	20.76
		1882.5(26365)	22.49	21.57	20.48
		1860(26140)	22.48	21.50	20.53
	50RB-Low (0)	1905(26590)	22.64	21.71	20.67
		1882.5(26365)	22.39	21.43	20.41
		1860(26140)	22.43	21.41	20.50
	100RB (0)	1905(26590)	22.61	21.64	20.66
		1882.5(26365)	22.43	21.43	20.46
		1860(26140)	22.38	21.44	20.43

LTE BAND 25 power level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3(26683)	22.55	22.24	21.49
		1882.5(26365)	22.12	22.42	21.44
		1850.7(26047)	22.35	22.07	21.42
	1RB-Middle (3)	1914.3(26683)	23.03	22.72	22.16
		1882.5(26365)	22.56	22.85	22.03
		1850.7(26047)	22.68	22.51	22.15
	1RB-Low (0)	1914.3(26683)	22.78	22.52	21.68
		1882.5(26365)	22.33	22.69	21.55
		1850.7(26047)	22.46	22.16	21.55
	3RB-High (3)	1914.3(26683)	22.74	22.82	21.83
		1882.5(26365)	22.44	22.73	21.58
		1850.7(26047)	22.60	22.54	21.75
	3RB-Middle (1)	1914.3(26683)	22.89	22.93	21.91
		1882.5(26365)	22.56	22.77	21.65
		1850.7(26047)	22.65	22.69	21.89
	3RB-Low (0)	1914.3(26683)	22.80	22.86	21.96
		1882.5(26365)	22.48	22.71	21.51
		1850.7(26047)	22.51	22.59	21.89
	6RB (0)	1914.3(26683)	22.93	22.07	21.29
		1882.5(26365)	22.46	21.39	20.62
		1850.7(26047)	22.61	21.69	20.56
3MHz	1RB-High (14)	1913.5(26675)	22.61	22.33	21.65
		1882.5(26365)	22.23	22.55	21.40
		1851.5(26055)	22.36	22.03	21.62
	1RB-Middle (7)	1913.5(26675)	22.94	22.75	22.15
		1882.5(26365)	22.61	23.01	22.03
		1851.5(26055)	22.71	22.48	22.15
	1RB-Low (0)	1913.5(26675)	22.72	22.68	22.01
		1882.5(26365)	22.41	22.77	21.68
		1851.5(26055)	22.54	22.31	22.05
	8RB-High (7)	1913.5(26675)	22.87	21.84	21.06
		1882.5(26365)	22.45	21.56	20.59
		1851.5(26055)	22.59	21.49	20.61
	8RB-Middle (4)	1913.5(26675)	22.95	22.01	21.06
		1882.5(26365)	22.49	21.64	20.56
		1851.5(26055)	22.62	21.59	20.65
	8RB-Low (0)	1913.5(26675)	22.89	21.93	21.09
		1882.5(26365)	22.47	21.56	20.51
		1851.5(26055)	22.61	21.52	20.61
	15RB (0)	1913.5(26675)	22.88	21.92	21.02
		1882.5(26365)	22.47	21.51	20.56
		1851.5(26055)	22.51	21.54	20.53

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5MHz	1RB-High (24)	1912.5(26665)	22.35	22.30	21.68
		1882.5(26365)	22.16	22.08	21.51
		1852.5(26065)	22.09	22.49	21.65
	1RB-Middle (12)	1912.5(26665)	22.91	22.89	22.23
		1882.5(26365)	22.74	22.70	22.05
		1852.5(26065)	22.83	23.29	22.05
	1RB-Low (0)	1912.5(26665)	22.56	22.61	22.09
		1882.5(26365)	22.39	22.37	21.56
		1852.5(26065)	22.37	22.93	22.01
	12RB-High (13)	1912.5(26665)	22.70	21.87	20.89
		1882.5(26365)	22.43	21.47	20.45
		1852.5(26065)	22.57	21.65	20.64
	12RB-Middle (6)	1912.5(26665)	22.94	22.06	21.05
		1882.5(26365)	22.51	21.53	20.58
		1852.5(26065)	22.62	21.68	20.68
	12RB-Low (0)	1912.5(26665)	22.87	22.01	21.06
		1882.5(26365)	22.42	21.50	20.49
		1852.5(26065)	22.49	21.54	20.59
	25RB (0)	1912.5(26665)	22.87	21.90	21.03
		1882.5(26365)	22.52	21.52	20.52
		1852.5(26065)	22.51	21.64	20.65
10MHz	1RB-High (49)	1910(26640)	22.44	22.11	21.58
		1882.5(26365)	22.19	22.03	21.53
		1855(26090)	22.15	22.56	21.55
	1RB-Middle (24)	1910(26640)	22.71	22.54	22.11
		1882.5(26365)	22.47	22.51	22.01
		1855(26090)	22.58	22.93	22.07
	1RB-Low (0)	1910(26640)	22.60	22.35	21.60
		1882.5(26365)	22.28	22.31	21.56
		1855(26090)	22.41	22.81	22.00
	25RB-High (25)	1910(26640)	22.67	21.83	20.92
		1882.5(26365)	22.47	21.53	20.76
		1855(26090)	22.52	21.62	20.62
	25RB-Middle (12)	1910(26640)	22.82	21.95	21.09
		1882.5(26365)	22.51	21.63	20.65
		1855(26090)	22.57	21.64	20.78
	25RB-Low (0)	1910(26640)	22.89	22.00	21.09
		1882.5(26365)	22.51	21.64	20.69
		1855(26090)	22.55	21.60	20.62
	50RB (0)	1910(26640)	22.81	21.87	20.98
		1882.5(26365)	22.59	21.53	20.59
		1855(26090)	22.55	21.51	20.61
15MHz	1RB-High (74)	1907.5(26615)	22.68	22.69	22.05
		1882.5(26365)	22.29	22.13	22.05
		1857.5 (26115)	22.32	22.54	21.41

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	1RB-Middle (37)	1907.5(26615)	22.96	23.22	22.12
		1882.5(26365)	22.68	22.66	22.36
		1857.5 (26115)	22.66	23.03	21.56
	1RB-Low (0)	1907.5(26615)	22.51	22.84	21.48
		1882.5(26365)	22.33	22.38	22.14
		1857.5 (26115)	22.41	22.74	21.49
	36RB-High (38)	1907.5(26615)	22.84	21.85	20.91
		1882.5(26365)	22.58	21.48	20.63
		1857.5 (26115)	22.61	21.56	20.58
	36RB-Middle (19)	1907.5(26615)	22.89	21.88	21.03
		1882.5(26365)	22.61	21.55	20.63
		1857.5 (26115)	22.66	21.62	20.67
	36RB-Low (0)	1907.5(26615)	22.79	21.79	20.86
		1882.5(26365)	22.59	21.53	20.57
		1857.5 (26115)	22.62	21.57	20.63
	75RB (0)	1907.5(26615)	22.83	21.86	20.88
		1882.5(26365)	22.52	21.47	20.61
		1857.5 (26115)	22.56	21.54	20.59
20MHz	1RB-High (99)	1905(26590)	22.50	22.65	22.03
		1882.5(26365)	22.31	22.16	22.05
		1860(26140)	22.29	22.32	21.53
	1RB-Middle (50)	1905(26590)	23.00	23.05	22.26
		1882.5(26365)	22.71	22.96	22.28
		1860(26140)	22.78	22.65	22.09
	1RB-Low (0)	1905(26590)	22.61	22.65	22.06
		1882.5(26365)	22.31	22.25	22.07
		1860(26140)	22.44	22.15	21.56
	50RB-High (50)	1905(26590)	22.59	21.68	20.78
		1882.5(26365)	22.50	21.49	20.45
		1860(26140)	22.43	21.44	20.49
	50RB-Middle (25)	1905(26590)	22.83	21.92	20.99
		1882.5(26365)	22.55	21.58	20.58
		1860(26140)	22.51	21.61	20.62
	50RB-Low (0)	1905(26590)	22.75	21.77	20.85
		1882.5(26365)	22.52	21.48	20.43
		1860(26140)	22.51	21.51	20.57
	100RB (0)	1905(26590)	22.66	21.72	20.76
		1882.5(26365)	22.51	21.51	20.49
		1860(26140)	22.44	21.43	20.48

LTE BAND 25 power level C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	1914.3(26683)	21.59	21.46	21.50
		1882.5(26365)	21.21	21.06	21.44
		1850.7(26047)	21.29	21.64	21.46
	1RB-Middle (3)	1914.3(26683)	22.08	21.83	21.98
		1882.5(26365)	21.63	21.55	21.87
		1850.7(26047)	21.72	22.10	21.97
	1RB-Low (0)	1914.3(26683)	21.83	21.56	21.71
		1882.5(26365)	21.42	21.23	21.51
		1850.7(26047)	21.51	21.86	21.60
	3RB-High (3)	1914.3(26683)	22.02	21.98	21.86
		1882.5(26365)	21.34	21.60	21.56
		1850.7(26047)	21.61	21.88	21.79
	3RB-Middle (1)	1914.3(26683)	22.06	22.15	22.89
		1882.5(26365)	21.53	21.74	21.61
		1850.7(26047)	21.76	21.98	21.82
	3RB-Low (0)	1914.3(26683)	21.95	21.98	21.87
		1882.5(26365)	21.48	21.66	21.52
		1850.7(26047)	21.65	21.92	21.85
	6RB (0)	1914.3(26683)	21.93	22.08	21.28
		1882.5(26365)	21.51	21.72	20.62
		1850.7(26047)	21.59	21.49	20.56
3MHz	1RB-High (14)	1913.5(26675)	21.60	21.44	21.62
		1882.5(26365)	21.30	21.12	21.41
		1851.5(26055)	21.33	21.72	21.62
	1RB-Middle (7)	1912.5(26665)	22.08	21.83	21.94
		1882.5(26365)	21.59	21.52	21.76
		1851.5(26055)	21.73	22.09	21.96
	1RB-Low (0)	1912.5(26665)	21.88	21.67	21.75
		1882.5(26365)	21.36	21.39	21.62
		1851.5(26055)	21.49	21.89	21.75
	8RB-High (7)	1912.5(26665)	21.93	21.88	20.96
		1882.5(26365)	21.53	21.52	20.53
		1851.5(26055)	21.61	21.65	20.63
	8RB-Middle (4)	1912.5(26665)	22.01	21.99	20.97
		1882.5(26365)	21.57	21.59	20.56
		1851.5(26055)	21.62	21.75	20.69
	8RB-Low (0)	1912.5(26665)	21.99	21.93	20.95
		1882.5(26365)	21.52	21.55	20.54
		1851.5(26055)	21.59	21.69	20.64
	15RB (0)	1912.5(26665)	21.93	21.87	20.93
		1882.5(26365)	21.49	21.58	20.58
		1851.5(26055)	21.57	21.59	20.56

5MHz	1RB-High (24)	1912.5(26665)	21.54	21.53	21.69
		1882.5(26365)	21.28	21.67	21.43
		1852.5(26065)	21.12	21.06	21.58
	1RB-Middle (12)	1912.5(26665)	22.15	22.10	22.27
		1882.5(26365)	21.75	22.20	21.85
		1852.5(26065)	21.70	21.74	22.14
	1RB-Low (0)	1912.5(26665)	21.78	21.75	21.91
		1882.5(26365)	21.36	21.78	21.51
		1852.5(26065)	21.40	21.38	21.83
	12RB-High (13)	1912.5(26665)	21.85	21.84	20.89
		1882.5(26365)	21.51	21.65	20.49
		1852.5(26065)	21.64	21.63	20.65
	12RB-Middle (6)	1912.5(26665)	22.01	21.95	20.96
		1882.5(26365)	21.54	21.65	20.49
		1852.5(26065)	21.64	21.67	20.77
	12RB-Low (0)	1912.5(26665)	22.01	21.97	20.93
		1882.5(26365)	21.48	21.62	20.53
		1852.5(26065)	21.53	21.57	20.59
10MHz	1RB-High (49)	1910(26640)	21.53	21.34	21.62
		1882.5(26365)	21.20	21.08	21.32
		1855(26090)	21.16	21.61	21.57
	1RB-Middle (24)	1910(26640)	21.89	21.71	21.86
		1882.5(26365)	21.53	21.49	21.77
		1855(26090)	21.62	21.94	21.92
	1RB-Low (0)	1910(26640)	21.65	21.42	21.65
		1882.5(26365)	21.34	21.32	21.53
		1855(26090)	21.46	21.83	21.67
	25RB-High (25)	1910(26640)	21.72	21.82	20.93
		1882.5(26365)	21.51	21.61	20.62
		1855(26090)	21.55	21.56	20.71
	25RB-Middle (12)	1910(26640)	21.88	21.98	20.87
		1882.5(26365)	21.49	21.62	20.68
		1855(26090)	21.62	21.63	20.81
	25RB-Low (0)	1910(26640)	21.93	21.88	20.93
		1882.5(26365)	21.53	21.59	20.68
		1855(26090)	21.54	21.60	20.62
15MHz	1RB-High (74)	1907.5(26615)	21.46	21.48	21.84
		1882.5(26365)	21.19	21.51	21.12
		1857.5 (26115)	21.39	21.04	21.76

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	1RB-Middle (37)	1907.5(26615)	21.85	21.88	22.28
		1882.5(26365)	21.64	22.01	21.53
		1857.5 (26115)	21.71	21.66	21.05
	1RB-Low (0)	1907.5(26615)	21.45	21.43	21.83
		1882.5(26365)	21.32	21.70	21.28
		1857.5 (26115)	21.44	21.48	21.93
	36RB-High (38)	1907.5(26615)	21.81	21.75	20.85
		1882.5(26365)	21.54	21.58	20.62
		1857.5 (26115)	21.54	21.55	20.61
	36RB-Middle (19)	1907.5(26615)	21.89	21.89	20.95
		1882.5(26365)	21.62	21.62	20.72
		1857.5 (26115)	21.62	21.61	20.69
	36RB-Low (0)	1907.5(26615)	21.78	21.79	20.86
		1882.5(26365)	21.52	21.53	20.59
		1857.5 (26115)	21.61	21.54	20.62
	75RB (0)	1907.5(26615)	21.75	21.75	20.85
		1882.5(26365)	21.53	21.53	20.61
		1857.5 (26115)	21.56	21.51	20.20
20MHz	1RB-High (99)	1905(26590)	21.75	21.84	22.08
		1882.5(26365)	21.43	21.88	21.32
		1860(26140)	21.45	21.43	21.80
	1RB-Middle (50)	1905(26590)	22.18	22.03	22.51
		1882.5(26365)	21.85	22.31	21.80
		1860(26140)	21.70	22.02	22.15
	1RB-Low (0)	1905(26590)	21.52	21.81	21.97
		1882.5(26365)	21.26	21.96	21.51
		1860(26140)	21.39	21.69	21.86
	50RB-High (50)	1905(26590)	21.67	21.65	20.63
		1882.5(26365)	21.53	21.57	20.60
		1860(26140)	21.47	21.51	20.46
	50RB-Middle (25)	1905(26590)	21.88	21.83	20.81
		1882.5(26365)	21.64	21.73	20.69
		1860(26140)	21.59	21.60	20.61
	50RB-Low (0)	1905(26590)	21.77	21.75	20.68
		1882.5(26365)	21.52	21.59	20.59
		1860(26140)	21.55	21.58	20.58
	100RB (0)	1905(26590)	21.68	21.66	20.70
		1882.5(26365)	21.52	21.54	20.58
		1860(26140)	21.49	21.53	20.51

LTE BAND 26 power level B1/C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3(27033)	24.01	22.98	21.63
		831.5(26865)	23.84	22.62	21.94
		814.7(26697)	23.89	22.56	22.06
	1RB-Middle (3)	848.3(27033)	24.19	23.54	22.13
		831.5(26865)	24.15	22.93	22.31
		814.7(26697)	24.31	23.12	22.54
	1RB-Low (0)	848.3(27033)	23.96	23.21	21.86
		831.5(26865)	23.91	22.67	22.15
		814.7(26697)	24.10	22.82	22.17
	3RB-High (3)	848.3(27033)	23.99	22.89	21.94
		831.5(26865)	23.90	22.81	21.85
		814.7(26697)	23.89	22.95	21.97
	3RB-Middle (1)	848.3(27033)	23.98	22.91	21.96
		831.5(26865)	23.89	22.95	21.89
		814.7(26697)	23.88	22.98	21.99
	3RB-Low (0)	848.3(27033)	23.90	22.91	21.97
		831.5(26865)	23.81	22.79	21.85
		814.7(26697)	23.89	22.92	21.91
	6RB (0)	848.3(27033)	23.15	22.35	21.36
		831.5(26865)	23.01	22.17	21.19
		814.7(26697)	23.21	22.33	21.18
3MHz	1RB-High (14)	847.5(27025)	23.65	22.34	21.78
		831.5(26865)	23.71	22.49	21.94
		815.5(26705)	23.85	23.07	22.19
	1RB-Middle (7)	847.5(27025)	24.06	22.74	21.75
		831.5(26865)	23.99	22.95	22.31
		815.5(26705)	24.14	23.47	22.48
	1RB-Low (0)	847.5(27025)	23.88	22.58	21.90
		831.5(26865)	23.81	22.81	22.15
		815.5(26705)	24.10	23.34	22.33
	8RB-High (7)	847.5(27025)	22.92	21.80	21.20
		831.5(26865)	22.96	21.89	21.09
		815.5(26705)	23.07	22.13	21.18
	8RB-Middle (4)	847.5(27025)	22.95	21.91	21.24
		831.5(26865)	23.03	22.09	21.14
		815.5(26705)	23.15	22.12	21.27
	8RB-Low (0)	847.5(27025)	22.92	21.86	21.23
		831.5(26865)	23.00	22.05	21.15
		815.5(26705)	22.84	22.05	21.23
	15RB (0)	847.5(27025)	22.89	21.85	21.17
		831.5(26865)	22.98	21.93	21.09
		815.5(26705)	22.89	22.02	21.21

5MHz	1RB-High (24)	846.5(27015)	23.65	22.51	21.83
		831.5(26865)	23.66	22.62	22.14
		816.5(26715)	23.72	23.21	21.91
	1RB-Middle (12)	846.5(27015)	24.09	23.07	22.43
		831.5(26865)	24.19	23.12	22.59
		816.5(26715)	24.23	23.68	22.46
	1RB-Low (0)	846.5(27015)	23.72	22.80	22.08
		831.5(26865)	23.91	22.87	22.27
		816.5(26715)	23.91	23.44	22.15
	12RB-High (13)	846.5(27015)	22.96	21.97	21.09
		831.5(26865)	22.91	21.95	21.10
		816.5(26715)	23.01	22.09	21.22
	12RB-Middle (6)	846.5(27015)	23.06	22.11	21.18
		831.5(26865)	22.99	22.02	21.12
		816.5(26715)	23.11	22.16	21.27
	12RB-Low (0)	846.5(27015)	22.91	22.02	21.09
		831.5(26865)	22.93	21.99	21.12
		816.5(26715)	23.09	22.08	21.22
	25RB (0)	846.5(27015)	22.96	21.94	21.14
		831.5(26865)	22.92	21.82	21.11
		816.5(26715)	23.01	22.13	21.17
10MHz	1RB-High (49)	844(26990)	23.52	22.68	21.55
		831.5(26865)	23.70	22.43	22.06
		819(26740)	23.64	23.09	22.11
	1RB-Middle (24)	844(26990)	23.93	23.03	21.84
		831.5(26865)	24.08	23.17	22.55
		819(26740)	24.10	23.40	22.46
	1RB-Low (0)	844(26990)	23.72	22.76	21.25
		831.5(26865)	23.81	22.89	22.37
		819(26740)	23.95	23.26	22.30
	25RB-High (25)	844(26990)	22.89	21.83	20.96
		831.5(26865)	22.84	21.85	20.90
		819(26740)	23.00	22.07	21.27
	25RB-Middle (12)	844(26990)	22.87	21.78	20.92
		831.5(26865)	22.84	21.83	20.83
		819(26740)	23.03	22.11	21.25
	25RB-Low (0)	844(26990)	22.91	21.86	21.04
		831.5(26865)	22.87	21.88	20.85
		819(26740)	23.08	22.10	21.29
	50RB (0)	844(26990)	22.88	21.83	20.84
		831.5(26865)	22.84	21.88	20.84
		819(26740)	23.01	22.08	21.24

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15MHz	1RB-High (74)	841.5(26965)	23.35	22.58	21.48
		831.5(26865)	23.66	22.51	21.98
		821.5(26765)	23.55	22.88	21.56
	1RB-Middle (37)	841.5(26965)	24.04	22.98	21.86
		831.5(26865)	24.22	23.28	22.62
		821.5(26765)	24.21	23.51	22.17
	1RB-Low (0)	841.5(26965)	23.68	22.75	21.62
		831.5(26865)	23.90	22.91	22.40
		821.5(26765)	23.93	23.29	21.86
	36RB-High (38)	841.5(26965)	23.01	21.92	21.03
		831.5(26865)	23.02	21.87	21.07
		821.5(26765)	23.03	22.01	20.98
	36RB-Middle (19)	841.5(26965)	23.01	21.95	21.06
		831.5(26865)	23.02	21.89	21.06
		821.5(26765)	23.12	22.09	21.08
	36RB-Low (0)	841.5(26965)	23.02	21.98	21.00
		831.5(26865)	23.05	21.89	21.06
		821.5(26765)	23.15	22.09	21.07
	75RB (0)	841.5(26965)	23.01	21.97	20.98
		831.5(26865)	23.05	21.99	21.02
		821.5(26765)	23.09	22.05	21.06

LTE BAND 26 power level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
1.4MHz	1RB-High (5)	848.3(27033)	21.95	21.98	21.64
		831.5(26865)	21.76	21.60	21.98
		814.7(26697)	21.79	21.48	22.05
	1RB-Middle (3)	848.3(27033)	22.08	22.41	22.12
		831.5(26865)	22.14	21.93	22.32
		814.7(26697)	22.18	22.07	22.43
	1RB-Low (0)	848.3(27033)	21.87	22.17	21.85
		831.5(26865)	21.84	21.67	22.07
		814.7(26697)	22.01	21.83	22.23
	3RB-High (3)	848.3(27033)	21.98	22.22	22.19
		831.5(26865)	22.02	22.01	22.03
		814.7(26697)	22.02	22.20	22.18
	3RB-Middle (1)	848.3(27033)	22.15	22.31	22.25
		831.5(26865)	22.06	22.15	22.17
		814.7(26697)	22.18	22.36	22.38
	3RB-Low (0)	848.3(27033)	22.06	22.26	22.11
		831.5(26865)	21.96	22.05	22.05
		814.7(26697)	22.13	22.27	22.37
	6RB (0)	848.3(27033)	22.05	21.92	21.44
		831.5(26865)	21.92	22.12	21.18
		814.7(26697)	22.09	22.30	21.19

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3MHz	1RB-High (14)	847.5(27025)	21.77	21.53	21.78
		831.5(26865)	21.75	21.64	21.91
		815.5(26705)	21.85	22.23	22.19
	1RB-Middle (7)	847.5(27025)	22.17	21.94	22.01
		831.5(26865)	22.05	22.05	22.31
		815.5(26705)	22.26	22.61	22.48
	1RB-Low (0)	847.5(27025)	22.02	21.83	21.85
		831.5(26865)	21.85	21.89	22.10
		815.5(26705)	22.11	22.42	22.18
	8RB-High (7)	847.5(27025)	22.08	22.02	21.26
		831.5(26865)	21.96	21.97	21.06
		815.5(26705)	22.08	22.21	21.19
	8RB-Middle (4)	847.5(27025)	22.10	22.04	21.26
		831.5(26865)	22.05	22.05	21.15
		815.5(26705)	22.15	22.27	21.28
	8RB-Low (0)	847.5(27025)	22.05	22.02	21.22
		831.5(26865)	22.03	22.04	21.09
		815.5(26705)	22.11	22.25	21.23
	15RB (0)	847.5(27025)	22.01	21.98	21.16
		831.5(26865)	21.99	22.03	21.09
		815.5(26705)	22.09	22.14	21.26
5MHz	1RB-High (24)	846.5(27015)	21.75	21.72	21.83
		831.5(26865)	21.65	21.62	22.05
		816.5(26715)	21.81	21.79	21.91
	1RB-Middle (12)	846.5(27015)	22.28	22.23	22.33
		831.5(26865)	22.18	22.19	22.48
		816.5(26715)	22.42	22.37	22.37
	1RB-Low (0)	846.5(27015)	21.90	21.96	22.08
		831.5(26865)	21.81	21.92	22.19
		816.5(26715)	22.13	22.10	22.08
	12RB-High (13)	846.5(27015)	22.05	22.03	21.19
		831.5(26865)	22.02	22.09	21.16
		816.5(26715)	22.15	22.18	21.18
	12RB-Middle (6)	846.5(27015)	22.12	22.06	21.09
		831.5(26865)	22.12	22.16	21.14
		816.5(26715)	22.21	22.26	21.27
	12RB-Low (0)	846.5(27015)	22.03	22.09	21.09
		831.5(26865)	22.06	22.13	21.13
		816.5(26715)	22.13	22.24	21.21
	25RB (0)	846.5(27015)	22.07	22.06	21.14
		831.5(26865)	22.04	22.13	21.13
		816.5(26715)	22.17	22.20	21.18

10MHz	1RB-High (49)	844(26990)	21.57	21.43	22.01
		831.5(26865)	21.62	21.45	21.89
		819(26740)	21.73	22.12	22.09
	1RB-Middle (24)	844(26990)	21.96	21.71	22.34
		831.5(26865)	21.89	21.92	21.97
		819(26740)	22.07	22.47	22.22
	1RB-Low (0)	844(26990)	21.72	21.49	22.10
		831.5(26865)	21.81	21.78	21.89
		819(26740)	21.96	22.31	22.11
	25RB-High (25)	844(26990)	21.91	22.02	21.18
		831.5(26865)	21.95	21.06	21.19
		819(26740)	22.02	22.08	21.25
	25RB-Middle (12)	844(26990)	21.95	22.02	21.15
		831.5(26865)	21.95	21.99	21.21
		819(26740)	22.05	22.12	21.28
	25RB-Low (0)	844(26990)	21.95	22.06	21.23
		831.5(26865)	21.94	22.03	21.26
		819(26740)	22.05	22.09	21.31
	50RB (0)	844(26990)	21.93	22.01	21.22
		831.5(26865)	21.98	21.96	21.16
		819(26740)	22.05	22.06	21.18
15MHz	1RB-High (74)	841.5(26965)	21.65	21.71	21.51
		831.5(26865)	21.65	21.49	21.97
		821.5(26765)	21.53	21.88	21.51
	1RB-Middle (37)	841.5(26965)	22.06	22.19	21.93
		831.5(26865)	22.19	22.32	22.65
		821.5(26765)	22.15	22.42	22.11
	1RB-Low (0)	841.5(26965)	21.67	21.87	21.65
		831.5(26865)	21.81	21.91	22.28
		821.5(26765)	21.86	22.31	21.84
	36RB-High (38)	841.5(26965)	21.92	21.96	21.05
		831.5(26865)	22.03	21.94	21.07
		821.5(26765)	21.98	22.02	21.02
	36RB-Middle (19)	841.5(26965)	21.97	21.96	21.03
		831.5(26865)	21.98	21.87	21.03
		821.5(26765)	22.07	22.16	21.09
	36RB-Low (0)	841.5(26965)	21.93	21.91	21.06
		831.5(26865)	21.96	21.88	21.02
		821.5(26765)	22.06	22.04	21.05
	75RB (0)	841.5(26965)	21.94	21.90	21.01
		831.5(26865)	22.03	22.01	21.05
		821.5(26765)	22.01	21.95	21.03

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LTE BAND 41 PC2 power level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5(41565)	25.43	24.42	23.70
		2593(40620)	25.93	24.84	23.91
		2498.5(39675)	25.23	24.40	23.69
	1RB-Middle (12)	2687.5(41566)	25.56	24.58	23.73
		2593(40621)	25.98	24.95	23.77
		2498.5(39676)	25.40	24.53	23.73
	1RB-Low (0)	2687.5(41567)	25.49	24.46	23.73
		2593(40622)	25.86	24.78	23.77
		2498.5(39677)	25.28	24.42	23.73
	12RB-High (13)	2687.5(41568)	24.42	23.35	22.45
		2593(40623)	24.91	23.84	22.75
		2498.5(39678)	24.48	23.41	22.44
	12RB-Middle (6)	2687.5(41569)	24.54	23.47	22.62
		2593(40624)	24.93	23.93	22.87
		2498.5(39679)	24.32	23.34	22.20
	12RB-Low (0)	2687.5(41570)	24.44	23.42	22.47
		2593(40625)	24.95	23.90	22.80
		2498.5(39680)	24.47	23.38	22.45
	25RB (0)	2687.5(41571)	24.48	23.44	22.47
		2593(40626)	24.91	23.89	22.84
		2498.5(39681)	24.30	23.26	22.20
10MHz	1RB-High (49)	2685(41540)	25.50	24.38	22.49
		2593(40620)	25.80	24.82	22.95
		2501(39700)	25.31	24.33	22.26
	1RB-Middle (24)	2685(41541)	25.84	24.67	23.84
		2593(40621)	25.95	24.97	23.89
		2501(39701)	25.67	24.59	23.46
	1RB-Low (0)	2685(41542)	25.54	24.40	23.84
		2593(40622)	25.87	24.94	23.88
		2501(39702)	25.37	24.35	23.46
	25RB-High (25)	2685(41543)	24.47	23.47	22.39
		2593(40623)	24.92	23.84	22.80
		2501(39703)	24.49	23.51	22.40
	25RB-Middle (12)	2685(41544)	24.52	23.51	22.49
		2593(40624)	24.95	23.89	22.95
		2501(39704)	24.32	23.26	22.26
	25RB-Low (0)	2685(41545)	24.51	23.51	22.43
		2593(40625)	24.88	23.82	22.79
		2501(39705)	24.49	23.53	22.38
	50RB (0)	2685(41546)	24.49	23.48	22.49
		2593(40626)	24.91	23.89	22.87
		2501(39706)	24.26	23.26	22.26

15MHz	1RB-High (74)	2682.5(41515)	25.44	24.30	23.60
		2593(40620)	25.96	25.00	23.80
		2503.5(39725)	25.21	24.34	23.35
	1RB-Middle (37)	2682.5(41516)	25.61	24.49	23.78
		2593(40621)	25.81	24.83	23.85
		2503.5(39726)	25.38	24.47	23.52
	1RB-Low (0)	2682.5(41517)	25.53	24.40	23.72
		2593(40622)	25.79	24.86	23.61
		2503.5(39727)	25.35	24.48	23.49
	36RB-High (38)	2682.5(41518)	24.71	23.56	22.68
		2593(40623)	24.99	23.85	22.86
		2503.5(39728)	24.61	23.48	22.50
	36RB-Middle (19)	2682.5(41519)	24.65	23.57	22.58
		2593(40624)	24.93	23.96	22.82
		2503.5(39729)	24.41	23.32	22.26
	36RB-Low (0)	2682.5(41520)	24.71	23.71	22.71
		2593(40625)	24.89	23.76	22.76
		2503.5(39730)	24.60	23.46	22.57
20MHz	1RB-High (99)	2682.5(41521)	24.61	23.54	22.56
		2593(40626)	24.90	23.92	22.93
		2503.5(39731)	24.38	23.33	22.31
	1RB-Middle (50)	2680(41490)	24.89	24.03	23.11
		2593(40620)	25.46	24.68	23.69
		2506(39750)	24.64	24.01	23.19
	1RB-Low (0)	2680(41490)	25.38	24.24	23.80
		2593(40620)	25.94	24.98	23.93
		2506(39750)	25.39	24.24	23.80
	50RB-High (50)	2680(41490)	25.02	24.18	23.41
		2593(40620)	25.59	24.58	23.60
		2506(39750)	25.01	24.22	23.41
	50RB-Middle (25)	2680(41490)	24.02	23.01	22.03
		2593(40620)	24.78	23.76	22.81
		2506(39750)	24.01	23.05	22.03
	50RB-Low (0)	2680(41490)	24.11	23.09	22.07
		2593(40620)	24.81	23.75	22.81
		2506(39750)	24.10	23.11	22.05
	100RB (0)	2680(41490)	24.10	23.12	22.06
		2593(40620)	24.73	23.71	22.76
		2506(39750)	24.12	23.09	22.05

LTE BAND 41 PC2 power level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5(41565)	22.39	22.37	22.37
		2593(40620)	22.93	22.91	22.95
		2498.5(39675)	22.22	22.26	22.47
	1RB-Middle (12)	2687.5(41566)	22.53	22.53	22.38
		2593(40621)	22.85	22.98	22.94
		2498.5(39676)	22.39	22.42	22.53
	1RB-Low (0)	2687.5(41567)	22.45	22.41	22.38
		2593(40622)	22.88	22.78	22.84
		2498.5(39677)	22.27	22.27	22.53
	12RB-High (13)	2687.5(41568)	22.38	22.41	22.35
		2593(40623)	22.97	22.90	22.94
		2498.5(39678)	22.39	22.36	22.35
	12RB-Middle (6)	2687.5(41569)	22.55	22.53	22.47
		2593(40624)	22.94	22.96	22.84
		2498.5(39679)	22.33	22.30	22.40
	12RB-Low (0)	2687.5(41570)	22.38	22.35	22.35
		2593(40625)	22.94	22.87	22.92
		2498.5(39680)	22.40	22.34	22.38
	25RB (0)	2687.5(41571)	22.45	22.48	22.44
		2593(40626)	22.92	22.86	22.82
		2498.5(39681)	22.30	22.32	22.28
10MHz	1RB-High (49)	2685(41540)	22.50	22.41	22.47
		2593(40620)	22.81	22.91	22.97
		2501(39700)	22.28	22.34	22.22
	1RB-Middle (24)	2685(41541)	22.87	22.77	22.82
		2593(40621)	22.92	22.97	22.86
		2501(39701)	22.64	22.64	22.47
	1RB-Low (0)	2685(41542)	22.57	22.45	22.82
		2593(40622)	22.86	23.00	22.86
		2501(39702)	22.37	22.42	22.47
	25RB-High (25)	2685(41543)	22.45	22.50	22.38
		2593(40623)	22.80	22.81	22.84
		2501(39703)	22.48	22.47	22.54
	25RB-Middle (12)	2685(41544)	22.54	22.53	22.47
		2593(40624)	22.98	22.92	22.97
		2501(39704)	22.28	22.30	22.22
	25RB-Low (0)	2685(41545)	22.48	22.48	22.39
		2593(40625)	22.92	22.88	22.78
		2501(39705)	22.51	22.51	22.49
	50RB (0)	2685(41546)	22.52	22.53	22.46
		2593(40626)	22.97	22.92	22.89
		2501(39706)	22.26	22.30	22.27

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15MHz	1RB-High (74)	2682.5(41515)	22.42	22.35	22.64
		2593(40620)	22.94	22.85	22.81
		2503.5(39725)	22.19	22.34	22.32
	1RB-Middle (37)	2682.5(41516)	22.57	22.51	22.81
		2593(40621)	22.98	22.92	22.86
		2503.5(39726)	22.36	22.55	22.53
	1RB-Low (0)	2682.5(41517)	22.51	22.39	22.68
		2593(40622)	22.79	22.91	22.64
		2503.5(39727)	22.36	22.52	22.50
	36RB-High (38)	2682.5(41518)	22.48	22.39	22.41
		2593(40623)	22.98	22.96	22.94
		2503.5(39728)	22.47	22.55	22.53
	36RB-Middle (19)	2682.5(41519)	22.60	22.54	22.63
		2593(40624)	22.87	22.81	22.86
		2503.5(39729)	22.33	22.36	22.27
	36RB-Low (0)	2682.5(41520)	22.53	22.38	22.53
		2593(40625)	22.93	22.88	22.85
		2503.5(39730)	22.50	22.53	22.53
20MHz	1RB-High (99)	2682.5(41521)	22.55	22.54	22.58
		2593(40626)	22.83	22.95	22.98
		2503.5(39731)	22.33	22.31	22.32
	1RB-Middle (50)	2680(41490)	21.63	21.87	21.56
		2593(40620)	22.39	22.73	22.75
		2506(39750)	21.64	22.06	22.08
	1RB-Low (0)	2680(41490)	22.45	22.48	22.16
		2593(40620)	22.97	22.84	22.92
		2506(39750)	22.38	22.30	22.81
	50RB-High (50)	2680(41490)	22.14	22.08	21.78
		2593(40620)	22.62	22.59	22.65
		2506(39750)	22.10	22.29	22.47
	50RB-Middle (25)	2680(41490)	22.02	22.07	22.01
		2593(40620)	22.87	22.81	22.81
		2506(39750)	22.04	22.04	22.03
	50RB-Low (0)	2680(41490)	22.13	22.14	22.07
		2593(40620)	22.79	22.80	22.82
		2506(39750)	22.11	22.13	22.06
	100RB (0)	2680(41490)	22.13	22.15	22.09
		2593(40620)	22.80	22.71	22.71
		2506(39750)	22.15	22.11	22.14

LTE BAND 41 PC2 power level C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5(41565)	21.42	21.42	21.41
		2593(40620)	21.92	21.83	21.98
		2498.5(39675)	21.20	21.26	21.52
	1RB-Middle (12)	2687.5(41566)	21.55	21.56	21.43
		2593(40621)	21.84	21.91	21.99
		2498.5(39676)	21.40	21.45	21.57
	1RB-Low (0)	2687.5(41567)	21.46	21.40	21.43
		2593(40622)	21.87	21.86	21.90
		2498.5(39677)	21.28	21.32	21.57
	12RB-High (13)	2687.5(41568)	21.39	21.36	21.45
		2593(40623)	21.85	21.88	21.84
		2498.5(39678)	21.45	21.48	21.46
	12RB-Middle (6)	2687.5(41569)	21.52	21.55	21.51
		2593(40624)	21.97	21.99	21.85
		2498.5(39679)	21.35	21.31	21.40
	12RB-Low (0)	2687.5(41570)	21.41	21.39	21.46
		2593(40625)	21.85	21.91	21.83
		2498.5(39680)	21.49	21.43	21.46
	25RB (0)	2687.5(41571)	21.46	21.48	21.47
		2593(40626)	21.95	21.92	21.91
		2498.5(39681)	21.30	21.35	21.31
10MHz	1RB-High (49)	2685(41540)	21.52	21.43	21.50
		2593(40620)	21.98	21.84	21.97
		2501(39700)	21.30	21.36	21.25
	1RB-Middle (24)	2685(41541)	21.88	21.80	21.82
		2593(40621)	21.95	21.99	21.85
		2501(39701)	21.63	21.68	21.53
	1RB-Low (0)	2685(41542)	21.54	21.45	21.82
		2593(40622)	21.89	21.77	21.85
		2501(39702)	21.36	21.43	21.53
	25RB-High (25)	2685(41543)	21.47	21.45	21.41
		2593(40623)	21.92	21.93	21.94
		2501(39703)	21.50	21.49	21.58
	25RB-Middle (12)	2685(41544)	21.54	21.54	21.50
		2593(40624)	22.00	21.95	21.97
		2501(39704)	21.30	21.30	21.25
	25RB-Low (0)	2685(41545)	21.49	21.50	21.42
		2593(40625)	21.90	21.89	21.91
		2501(39705)	21.55	21.51	21.62
	50RB (0)	2685(41546)	21.51	21.55	21.49
		2593(40626)	21.96	21.95	21.94
		2501(39706)	21.33	21.30	21.30

15MHz	1RB-High (74)	2682.5(41515)	21.45	21.35	21.67
		2593(40620)	21.95	21.80	21.82
		2503.5(39725)	21.15	21.36	21.35
	1RB-Middle (37)	2682.5(41516)	21.59	21.51	21.80
		2593(40621)	21.99	21.86	21.90
		2503.5(39726)	21.34	21.56	21.55
	1RB-Low (0)	2682.5(41517)	21.54	21.48	21.73
		2593(40622)	21.77	21.93	21.70
		2503.5(39727)	21.35	21.55	21.52
	36RB-High (38)	2682.5(41518)	21.45	21.38	21.46
		2593(40623)	21.95	21.98	21.90
		2503.5(39728)	21.45	21.47	21.48
	36RB-Middle (19)	2682.5(41519)	21.58	21.55	21.63
		2593(40624)	21.81	21.98	21.85
		2503.5(39729)	21.36	21.35	21.28
	36RB-Low (0)	2682.5(41520)	21.52	21.42	21.59
		2593(40625)	21.89	21.90	21.87
		2503.5(39730)	21.51	21.48	21.51
20MHz	1RB-High (99)	2682.5(41521)	21.55	21.54	21.56
		2593(40626)	22.00	21.95	21.95
		2503.5(39731)	21.33	21.27	21.33
	1RB-Middle (50)	2680(41490)	20.75	21.03	21.11
		2593(40620)	21.45	21.76	21.82
		2506(39750)	20.83	21.05	21.24
	1RB-Low (0)	2680(41490)	21.48	21.56	21.16
		2593(40620)	21.99	21.88	21.85
		2506(39750)	21.57	21.31	21.87
	50RB-High (50)	2680(41490)	21.15	21.09	21.52
		2593(40620)	21.64	21.62	21.75
		2506(39750)	21.06	21.31	21.52
	50RB-Middle (25)	2680(41490)	21.03	21.18	21.03
		2593(40620)	21.85	21.84	21.85
		2506(39750)	21.05	21.06	21.03
	50RB-Low (0)	2680(41490)	21.12	21.14	21.07
		2593(40620)	21.86	21.88	21.92
		2506(39750)	21.13	21.15	21.12
	100RB (0)	2680(41490)	21.13	21.18	21.09
		2593(40620)	21.81	21.83	21.81
		2506(39750)	21.18	21.14	21.13

LTE BAND 41PC3 power level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5(41565)	22.40	21.41	20.66
		2593(40620)	22.86	21.83	20.79
		2498.5(39675)	22.18	21.18	20.66
	1RB-Middle (12)	2687.5(41566)	22.56	21.56	20.70
		2593(40621)	22.97	21.95	20.73
		2498.5(39676)	22.32	21.35	20.49
	1RB-Low (0)	2687.5(41567)	22.41	21.43	20.70
		2593(40622)	22.76	21.76	20.73
		2498.5(39677)	22.19	21.21	20.49
	12RB-High (13)	2687.5(41568)	21.30	20.18	19.31
		2593(40623)	21.98	20.87	19.98
		2498.5(39678)	21.29	20.22	19.26
	12RB-Middle (6)	2687.5(41569)	21.55	20.43	19.53
		2593(40624)	21.95	20.88	19.88
		2498.5(39679)	21.31	20.22	19.26
	12RB-Low (0)	2687.5(41570)	21.34	20.33	19.33
		2593(40625)	21.87	20.88	19.93
		2498.5(39680)	21.39	20.29	19.28
	25RB (0)	2687.5(41571)	21.41	20.46	19.42
		2593(40626)	21.88	20.87	19.86
		2498.5(39681)	21.21	20.26	19.26
10MHz	1RB-High (49)	2685(41540)	22.50	21.37	19.42
		2593(40620)	22.94	21.81	19.93
		2501(39700)	22.23	21.29	19.17
	1RB-Middle (24)	2685(41541)	22.71	21.59	20.88
		2593(40621)	22.88	21.92	20.92
		2501(39701)	22.46	21.49	20.31
	1RB-Low (0)	2685(41542)	22.51	21.37	20.88
		2593(40622)	22.82	21.97	20.92
		2501(39702)	22.32	21.32	20.31
	25RB-High (25)	2685(41543)	21.35	20.36	19.29
		2593(40623)	21.92	20.88	19.82
		2501(39703)	21.39	20.35	19.34
	25RB-Middle (12)	2685(41544)	21.49	20.48	19.42
		2593(40624)	21.94	20.88	19.93
		2501(39704)	21.23	20.24	19.17
	25RB-Low (0)	2685(41545)	21.43	20.38	19.41
		2593(40625)	21.94	20.90	19.85
		2501(39705)	21.36	20.28	19.33
	50RB (0)	2685(41546)	21.46	20.46	19.43
		2593(40626)	21.92	20.88	19.88
		2501(39706)	21.23	20.24	19.26

15MHz	1RB-High (74)	2682.5(41515)	22.39	21.30	20.60
		2593(40620)	22.91	21.86	20.77
		2503.5(39725)	22.11	21.29	20.32
	1RB-Middle (37)	2682.5(41516)	22.59	21.50	20.76
		2593(40621)	22.97	21.90	20.83
		2503.5(39726)	22.31	21.48	20.51
	1RB-Low (0)	2682.5(41517)	22.46	21.38	20.69
		2593(40622)	22.75	21.90	20.57
		2503.5(39727)	22.30	21.46	20.47
	36RB-High (38)	2682.5(41518)	21.38	20.25	19.42
		2593(40623)	21.98	20.95	19.93
		2503.5(39728)	21.26	20.38	19.37
	36RB-Middle (19)	2682.5(41519)	21.55	20.45	19.53
		2593(40624)	22.00	20.89	19.95
		2503.5(39729)	21.26	20.25	19.19
	36RB-Low (0)	2682.5(41520)	21.45	20.28	19.42
		2593(40625)	21.90	20.86	19.85
		2503.5(39730)	21.38	20.33	19.42
	75RB (0)	2682.5(41521)	21.52	20.47	19.47
		2593(40626)	21.97	20.86	19.88
		2503.5(39731)	21.25	20.25	19.24
20MHz	1RB-High (99)	2680(41490)	21.80	20.67	20.01
		2593(40620)	22.65	21.35	20.04
		2506(39750)	21.54	20.50	19.58
	1RB-Middle (50)	2680(41490)	22.24	21.03	20.52
		2593(40620)	22.98	21.81	20.45
		2506(39750)	22.29	21.21	20.15
	1RB-Low (0)	2680(41490)	22.08	21.04	20.35
		2593(40620)	22.60	21.42	20.03
		2506(39750)	22.07	21.01	19.87
	50RB-High (50)	2680(41490)	21.03	20.01	19.05
		2593(40620)	21.80	20.75	19.76
		2506(39750)	21.01	20.03	19.01
	50RB-Middle (25)	2680(41490)	21.11	20.09	19.03
		2593(40620)	21.78	20.84	19.79
		2506(39750)	21.06	20.08	19.11
	50RB-Low (0)	2680(41490)	21.08	20.04	19.02
		2593(40620)	21.75	20.71	19.72
		2506(39750)	21.07	20.08	19.17
	100RB (0)	2680(41490)	21.10	20.06	19.07
		2593(40620)	21.78	20.76	19.79
		2506(39750)	21.01	20.13	19.09

LTE BAND 41 PC3 power level B1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5(41565)	19.35	19.34	19.35
		2593(40620)	19.85	19.87	19.98
		2498.5(39675)	19.16	19.20	19.47
	1RB-Middle (12)	2687.5(41566)	19.49	19.50	19.38
		2593(40621)	19.98	19.89	19.99
		2498.5(39676)	19.30	19.38	19.53
	1RB-Low (0)	2687.5(41567)	19.38	19.38	19.38
		2593(40622)	19.77	19.82	19.97
		2498.5(39677)	19.18	19.24	19.53
	12RB-High (13)	2687.5(41568)	19.27	19.19	19.35
		2593(40623)	19.19	19.24	19.11
		2498.5(39678)	19.32	19.30	19.33
	12RB-Middle (6)	2687.5(41569)	19.49	19.49	19.46
		2593(40624)	19.94	19.95	19.85
		2498.5(39679)	19.27	19.23	19.35
	12RB-Low (0)	2687.5(41570)	19.30	19.28	19.31
		2593(40625)	19.22	19.27	19.26
		2498.5(39680)	19.38	19.35	19.34
	25RB (0)	2687.5(41571)	19.40	19.43	19.43
		2593(40626)	19.86	19.85	19.84
		2498.5(39681)	19.24	19.29	19.26
10MHz	1RB-High (49)	2685(41540)	19.43	19.37	19.43
		2593(40620)	19.93	19.86	19.93
		2501(39700)	19.23	19.29	19.16
	1RB-Middle (24)	2685(41541)	19.65	19.57	19.89
		2593(40621)	19.74	19.95	19.97
		2501(39701)	19.46	19.51	19.34
	1RB-Low (0)	2685(41542)	19.49	19.40	19.89
		2593(40622)	19.79	19.98	19.97
		2501(39702)	19.33	19.40	19.34
	25RB-High (25)	2685(41543)	19.34	19.38	19.31
		2593(40623)	19.89	19.89	19.84
		2501(39703)	19.39	19.35	19.44
	25RB-Middle (12)	2685(41544)	19.46	19.45	19.43
		2593(40624)	19.91	19.91	19.93
		2501(39704)	19.24	19.26	19.16
	25RB-Low (0)	2685(41545)	19.41	19.41	19.38
		2593(40625)	19.91	19.92	19.83
		2501(39705)	19.44	19.41	19.51
	50RB (0)	2685(41546)	19.44	19.46	19.44
		2593(40626)	19.91	19.91	19.91
		2501(39706)	19.25	19.26	19.26

15MHz	1RB-High (74)	2682.5(41515)	19.36	19.31	19.60
		2593(40620)	19.90	19.79	19.81
		2503.5(39725)	19.07	19.32	19.32
	1RB-Middle (37)	2682.5(41516)	19.53	19.46	19.78
		2593(40621)	19.92	19.78	19.86
		2503.5(39726)	19.29	19.49	19.49
	1RB-Low (0)	2682.5(41517)	19.48	19.42	19.71
		2593(40622)	19.73	19.93	19.66
		2503.5(39727)	19.30	19.49	19.51
	36RB-High (38)	2682.5(41518)	19.33	19.21	19.34
		2593(40623)	19.92	19.95	19.88
		2503.5(39728)	19.31	19.34	19.38
	36RB-Middle (19)	2682.5(41519)	19.51	19.47	19.53
		2593(40624)	19.93	19.89	19.95
		2503.5(39729)	19.23	19.23	19.19
	36RB-Low (0)	2682.5(41520)	19.39	19.27	19.41
		2593(40625)	19.83	19.86	19.84
		2503.5(39730)	19.35	19.38	19.42
20MHz	1RB-High (99)	2682.5(41521)	19.47	19.47	19.47
		2593(40626)	19.89	19.87	19.88
		2503.5(39731)	19.21	19.22	19.24
	1RB-Middle (50)	2680(41490)	18.70	18.65	18.60
		2593(40620)	19.67	19.65	19.64
		2506(39750)	18.36	18.39	18.38
	1RB-Low (0)	2680(41490)	19.28	19.15	18.71
		2593(40620)	19.56	19.55	19.99
		2506(39750)	18.39	18.38	18.39
	50RB-High (50)	2680(41490)	19.14	18.92	18.59
		2593(40620)	19.55	19.55	19.56
		2506(39750)	18.37	18.36	18.36
	50RB-Middle (25)	2680(41490)	19.03	19.10	19.01
		2593(40620)	19.85	19.83	19.85
		2506(39750)	18.37	18.33	18.37
	50RB-Low (0)	2680(41490)	19.13	19.10	19.08
		2593(40620)	19.89	19.86	19.91
		2506(39750)	18.35	18.36	18.37
	100RB (0)	2680(41490)	19.13	19.18	19.09
		2593(40620)	19.79	19.79	19.81
		2506(39750)	18.41	18.39	18.37

LTE BAND 41 PC3 power level C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	2687.5(41565)	18.38	18.33	18.33
		2593(40620)	18.89	18.88	18.98
		2498.5(39675)	18.15	18.17	18.46
	1RB-Middle (12)	2687.5(41566)	18.51	18.48	18.36
		2593(40621)	18.81	18.90	18.97
		2498.5(39676)	18.34	18.37	18.54
	1RB-Low (0)	2687.5(41567)	18.40	18.36	18.36
		2593(40622)	18.81	18.99	18.97
		2498.5(39677)	18.21	18.26	18.54
	12RB-High (13)	2687.5(41568)	18.33	18.20	18.15
		2593(40623)	18.90	18.86	18.75
		2498.5(39678)	18.41	18.35	18.31
	12RB-Middle (6)	2687.5(41569)	18.52	18.45	18.44
		2593(40624)	18.98	18.96	18.81
		2498.5(39679)	18.32	18.25	18.35
	12RB-Low (0)	2687.5(41570)	18.35	18.20	18.30
		2593(40625)	18.87	18.86	18.71
		2498.5(39680)	18.43	18.35	18.35
	25RB (0)	2687.5(41571)	18.42	18.41	18.39
		2593(40626)	18.90	18.83	18.82
		2498.5(39681)	18.27	18.28	18.27
10MHz	1RB-High (49)	2685(41540)	18.47	18.37	18.41
		2593(40620)	18.96	18.81	18.92
		2501(39700)	18.28	18.33	18.16
	1RB-Middle (24)	2685(41541)	18.66	18.55	18.85
		2593(40621)	18.81	18.98	18.97
		2501(39701)	18.48	18.51	18.36
	1RB-Low (0)	2685(41542)	18.51	18.40	18.85
		2593(40622)	18.84	18.81	18.97
		2501(39702)	18.35	18.39	18.36
	25RB-High (25)	2685(41543)	18.38	18.29	18.36
		2593(40623)	18.86	18.79	18.74
		2501(39703)	18.44	18.41	18.32
	25RB-Middle (12)	2685(41544)	18.47	18.45	18.41
		2593(40624)	18.93	18.89	18.92
		2501(39704)	18.28	18.27	18.16
	25RB-Low (0)	2685(41545)	18.44	18.37	18.49
		2593(40625)	18.87	18.82	18.75
		2501(39705)	18.54	18.47	18.44
	50RB (0)	2685(41546)	18.45	18.44	18.42
		2593(40626)	18.92	18.89	18.88
		2501(39706)	18.28	18.27	18.24

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15MHz	1RB-High (74)	2682.5(41515)	18.37	18.30	18.58
		2593(40620)	18.91	18.89	18.80
		2503.5(39725)	18.15	18.30	18.27
	1RB-Middle (37)	2682.5(41516)	18.54	18.45	18.75
		2593(40621)	18.96	18.91	18.83
		2503.5(39726)	18.34	18.51	18.51
	1RB-Low (0)	2682.5(41517)	18.48	18.41	18.68
		2593(40622)	18.76	18.93	18.62
		2503.5(39727)	18.34	18.52	18.51
	36RB-High (38)	2682.5(41518)	18.49	18.29	18.38
		2593(40623)	18.90	18.81	18.84
		2503.5(39728)	18.35	18.32	18.29
	36RB-Middle (19)	2682.5(41519)	18.53	18.42	18.51
		2593(40624)	18.96	18.87	18.93
		2503.5(39729)	18.30	18.25	18.18
	36RB-Low (0)	2682.5(41520)	18.47	18.25	18.33
		2593(40625)	18.91	18.86	18.87
		2503.5(39730)	18.41	18.39	18.34
20MHz	1RB-High (99)	2682.5(41521)	18.46	18.43	18.44
		2593(40626)	18.93	18.84	18.86
		2503.5(39731)	18.26	18.24	18.23
	1RB-Middle (50)	2680(41490)	17.73	17.75	17.75
		2593(40620)	18.56	18.56	18.57
		2506(39750)	17.36	17.39	17.36
	1RB-Low (0)	2680(41490)	17.76	17.75	17.76
		2593(40620)	18.59	18.58	18.56
		2506(39750)	17.36	17.35	17.38
	50RB-High (50)	2680(41490)	17.73	17.74	17.76
		2593(40620)	18.56	18.57	18.57
		2506(39750)	17.35	17.39	17.38
	50RB-Middle (25)	2680(41490)	17.74	17.75	17.75
		2593(40620)	18.56	18.55	18.56
		2506(39750)	17.37	17.39	17.38
	50RB-Low (0)	2680(41490)	17.74	17.75	17.74
		2593(40620)	18.59	18.56	18.57
		2506(39750)	17.36	17.36	17.35
	100RB (0)	2680(41490)	17.74	17.76	17.74
		2593(40620)	18.58	18.55	18.58
		2506(39750)	17.36	17.37	17.36

LTE BAND 71 power level B1/C1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	695.5(133447)	23.96	23.14	22.52
		680.5(133297)	24.20	23.18	22.47
		665.5(133147)	24.69	23.71	22.64
	1RB-Middle (12)	695.5(133447)	24.04	23.21	22.48
		680.5(133297)	24.32	23.31	22.50
		665.5(133147)	24.85	23.83	22.62
	1RB-Low (0)	695.5(133447)	23.94	23.11	22.48
		680.5(133297)	24.19	23.20	22.50
		665.5(133147)	24.76	23.75	22.62
	12RB-High (13)	695.5(133447)	23.20	22.36	21.23
		680.5(133297)	23.29	22.20	21.37
		665.5(133147)	23.62	22.66	21.65
	12RB-Middle (6)	695.5(133447)	22.99	22.14	20.94
		680.5(133297)	23.28	22.27	21.35
		665.5(133147)	23.78	22.85	21.78
	12RB-Low (0)	695.5(133447)	23.29	22.40	21.31
		680.5(133297)	23.34	22.39	21.40
		665.5(133147)	23.52	22.57	21.59
	25RB (0)	695.5(133447)	22.94	21.96	20.99
		680.5(133297)	23.19	22.28	21.24
		665.5(133147)	23.73	22.75	21.73
10MHz	1RB-High (49)	693(133422)	24.02	22.94	21.04
		680.5(133297)	24.13	23.31	21.30
		668(133172)	24.51	23.68	21.66
	1RB-Middle (24)	693(133422)	24.13	23.05	22.44
		680.5(133297)	24.29	23.49	22.26
		668(133172)	24.73	23.88	22.84
	1RB-Low (0)	693(133422)	23.97	22.84	22.44
		680.5(133297)	24.20	23.42	22.26
		668(133172)	24.65	23.84	22.84
	25RB-High (25)	693(133422)	23.30	22.43	21.36
		680.5(133297)	23.31	22.36	21.43
		668(133172)	23.66	22.75	21.77
	25RB-Middle (12)	693(133422)	23.03	22.07	21.04
		680.5(133297)	23.25	22.24	21.30
		668(133172)	23.67	22.72	21.66
	25RB-Low (0)	693(133422)	23.28	22.36	21.34
		680.5(133297)	23.30	22.40	21.45
		668(133172)	23.59	21.62	21.63
	50RB (0)	693(133422)	23.03	22.04	21.02
		680.5(133297)	23.22	22.24	21.26
		668(133172)	23.68	22.72	21.71

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15MHz	1RB-High (74)	690.5(133397)	24.02	22.93	22.28
		680.5(133297)	24.09	23.24	22.08
		670.5(133197)	24.28	23.60	22.64
	1RB-Middle (37)	690.5(133397)	24.06	22.99	22.32
		680.5(133297)	24.21	23.44	22.23
		670.5(133197)	24.60	23.87	22.87
	1RB-Low (0)	690.5(133397)	23.99	22.88	22.27
		680.5(133297)	24.21	23.42	22.21
		670.5(133197)	24.58	23.86	22.88
	36RB-High (38)	690.5(133397)	23.31	22.37	21.48
		680.5(133297)	23.31	22.40	21.36
		670.5(133197)	23.63	22.61	21.62
	36RB-Middle (19)	690.5(133397)	23.11	22.14	21.18
		680.5(133297)	23.36	22.26	21.34
		670.5(133197)	23.64	22.67	21.62
	36RB-Low (0)	690.5(133397)	23.29	22.26	21.33
		680.5(133297)	23.41	22.38	21.37
		670.5(133197)	22.60	22.56	21.63
	75RB (0)	690.5(133397)	23.07	22.11	21.11
		680.5(133297)	23.26	22.22	21.23
		670.5(133197)	23.65	22.66	21.66
20MHz	1RB-High (99)	688(133372)	23.88	22.95	22.26
		680.5(133297)	23.63	22.62	21.46
		673(133222)	23.57	22.80	21.82
	1RB-Middle (50)	688(133372)	24.15	23.09	22.68
		680.5(133297)	24.21	23.43	22.05
		673(133222)	24.45	23.35	22.60
	1RB-Low (0)	688(133372)	23.83	23.06	22.33
		680.5(133297)	23.95	22.96	21.76
		673(133222)	24.23	23.25	22.23
	50RB-High (50)	688(133372)	23.13	22.15	21.16
		680.5(133297)	23.01	22.01	21.01
		673(133222)	23.23	22.26	21.25
	50RB-Middle (25)	688(133372)	23.05	22.16	21.09
		680.5(133297)	23.02	22.09	21.02
		673(133222)	23.18	22.27	21.29
	50RB-Low (0)	688(133372)	23.09	22.08	21.04
		680.5(133297)	22.90	21.95	20.89
		673(133222)	23.19	22.18	21.16
	100RB (0)	688(133372)	23.14	22.12	21.17
		680.5(133297)	22.96	21.98	21.00
		673(133222)	23.11	22.16	21.18

LTE BAND 71 power level A1					
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM
5MHz	1RB-High (24)	695.5(133447)	21.99	22.05	21.91
		680.5(133297)	22.21	22.41	22.70
		665.5(133147)	22.73	22.76	22.88
	1RB-Middle (12)	695.5(133447)	22.07	22.08	21.86
		680.5(133297)	22.33	22.55	22.72
		665.5(133147)	22.87	22.86	22.89
	1RB-Low (0)	695.5(133447)	21.99	21.98	21.86
		680.5(133297)	22.24	22.41	22.72
		665.5(133147)	22.83	22.82	22.89
	12RB-High (13)	695.5(133447)	22.25	22.29	21.23
		680.5(133297)	22.33	22.28	21.35
		665.5(133147)	22.65	22.62	21.65
	12RB-Middle (6)	695.5(133447)	22.07	22.10	21.03
		680.5(133297)	22.28	22.40	21.20
		665.5(133147)	22.83	22.81	21.90
	12RB-Low (0)	695.5(133447)	22.25	22.43	21.29
		680.5(133297)	22.37	22.41	21.42
		665.5(133147)	22.61	22.59	21.56
	25RB (0)	695.5(133447)	22.01	22.06	21.03
		680.5(133297)	22.27	22.28	21.24
		665.5(133147)	22.72	22.79	21.76
10MHz	1RB-High (49)	693(133422)	22.08	21.96	21.03
		680.5(133297)	22.16	22.35	21.29
		668(133172)	22.60	22.75	21.69
	1RB-Middle (24)	693(133422)	22.17	22.06	22.44
		680.5(133297)	22.33	22.49	22.32
		668(133172)	22.80	22.81	22.76
	1RB-Low (0)	693(133422)	22.02	21.90	22.44
		680.5(133297)	22.25	22.45	22.32
		668(133172)	22.73	22.90	22.76
	25RB-High (25)	693(133422)	22.32	22.34	21.35
		680.5(133297)	22.40	22.51	21.53
		668(133172)	22.63	22.64	21.74
	25RB-Middle (12)	693(133422)	22.09	22.09	21.03
		680.5(133297)	22.26	22.30	21.29
		668(133172)	22.72	22.74	21.69
	25RB-Low (0)	693(133422)	22.19	22.28	21.25
		680.5(133297)	22.36	22.38	21.52
		668(133172)	22.61	22.63	21.67
	50RB (0)	693(133422)	22.05	22.04	21.00
		680.5(133297)	22.31	22.30	21.22
		668(133172)	22.71	22.74	21.71

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15MHz	1RB-High (74)	690.5(133397)	22.03	21.88	22.21
		680.5(133297)	22.10	22.27	22.06
		670.5(133197)	22.33	22.65	22.60
	1RB-Middle (37)	690.5(133397)	22.08	21.96	22.29
		680.5(133297)	22.26	22.42	22.20
		670.5(133197)	22.62	22.85	22.84
	1RB-Low (0)	690.5(133397)	22.01	21.88	22.23
		680.5(133297)	22.25	22.42	22.20
		670.5(133197)	22.58	22.88	22.85
	36RB-High (38)	690.5(133397)	22.40	22.36	21.46
		680.5(133297)	22.38	22.36	21.36
		670.5(133197)	22.65	22.56	21.65
	36RB-Middle (19)	690.5(133397)	22.10	22.08	21.12
		680.5(133297)	22.32	22.29	21.33
		670.5(133197)	22.67	22.68	21.58
	36RB-Low (0)	690.5(133397)	22.36	22.27	21.39
		680.5(133297)	22.37	22.38	21.42
		670.5(133197)	22.62	22.58	21.58
	75RB (0)	690.5(133397)	22.06	22.04	21.07
		680.5(133297)	22.23	22.20	21.22
		670.5(133197)	22.64	22.66	21.66
20MHz	1RB-High (99)	688(133372)	21.68	21.91	21.88
		680.5(133297)	21.75	21.64	22.21
		673(133222)	21.81	22.16	21.67
	1RB-Middle (50)	688(133372)	22.40	22.27	22.59
		680.5(133297)	22.21	22.58	22.69
		673(133222)	22.46	22.58	22.28
	1RB-Low (0)	688(133372)	22.01	21.98	22.11
		680.5(133297)	22.07	21.93	22.50
		673(133222)	22.25	22.46	22.01
	50RB-High (50)	688(133372)	22.17	22.18	21.22
		680.5(133297)	22.05	22.08	21.04
		673(133222)	22.31	22.43	21.35
	50RB-Middle (25)	688(133372)	22.16	22.13	21.16
		680.5(133297)	22.08	22.13	21.06
		673(133222)	22.37	22.36	21.35
	50RB-Low (0)	688(133372)	22.11	22.12	21.16
		680.5(133297)	21.98	21.99	21.02
		673(133222)	22.28	22.37	21.26
	100RB (0)	688(133372)	22.15	22.17	21.26
		680.5(133297)	22.04	22.06	21.08
		673(133222)	22.29	22.28	21.31

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SAR test is not required since maximum output power when downlink carrier aggregation active is not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

The device supports interband downlink LTE Carrier Aggregation (CA) CA_66A_71A, CA_2A_5A, CA_2A_12A, CA_71A_4A, and intraband CA_2A_2A, CA_12B, CA_66A_66A

The conducted power measurement results of LTE CA are provided as follow.

All other downlink communications are identical to the release 8 specifications. Other LTE Rel.10 or higher features are not supported, including Enhanced SC-FDMA or downlink MIMO etc.

The conducted power measurement results of LTE downlink 2CA are as below :

DL LTE CA class	PCC								SCC			power		
	PCC band	PCC band width (MHz)	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL channel	PCC DL channel	SCC band	SCC band width (MHz)	SCC DL channel	Rel8 LTE TX power (dBm)	Rel10 DL LTE CA TX power (dBm)	Tune up
2A-2A	2	15	1	37	1	74	19125	1125	2	20	700	24.49	24.37	25
2A-2A	2	5	1	12	1	24	19175	1175	2	20	700	23.43	23.31	24
2A-2A	2	5	1	12	1	24	1907.5	1175	2	20	700	22.42	22.35	23
12B	12	5	1	12	1	24	23035	5035	12	5	5083	24.72	24.58	25
12B	12	5	1	12	1	24	23155	5155	12	5	5107	22.97	22.87	23
66A-66A	66	5	1	12	1	24	131997	66461	66	20	67236	24.60	24.51	25
66A-66A	66	5	1	12	1	24	131997	66461	66	20	67236	22.48	22.39	23
66A-66A	66	5	1	12	1	24	131997	66461	66	20	67236	21.45	21.54	22

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DL LTE CA class	PCC								SCC			power		
	PCC band	PCC band width (MHz)	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL channel	PCC DL channel	SCC band	SCC band width (MHz)	SCC DL channel	Rel8 LTE TX power (dBm)	Rel10 DL LTE CA TX power (dBm)	Tune up
66A-71A	66	5	1	12	1	24	131997	66461	71	20	133297	24.60	24.52	25
71A-66A	71	5	1	12	1	24	133147	68611	66	20	132322	24.85	24.74	25
2A-5A	2	15	1	37	1	74	19125	1125	5	10	20525	24.49	24.42	25
5A-2A	5	10	1	24	1	49	20600	2600	2	20	18900	24.84	24.78	25
2A-12A	2	15	1	37	1	74	19125	1125	12	10	707.5	24.49	24.41	25
12A-2A	12	5	1	12	1	24	23035	5035	2	20	18900	24.72	24.66	25
71A-4A	71	5	1	12	1	24	133147	68611	4	20	20175	24.85	24.79	25

DL LTE CA class	PCC								SCC			power		
	PCC band	PCC band width (MHz)	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL channel	PCC DL channel	SCC band	SCC band width (MHz)	SCC DL channel	Rel8 LTE TX power (dBm)	Rel10 DL LTE CA TX power (dBm)	Tune up
66A-71A	66	5	1	12	1	24	131997	66461	71	20	133297	22.48	22.41	23
66A-71A	66	5	1	12	1	24	131997	66461	71	20	133297	21.45	21.40	22
71A-66A	71	5	1	12	1	24	133147	68611	66	20	132322	22.87	22.79	23
2A-5A	2	5	1	12	1	24	19175	1175	5	10	20525	23.43	23.37	24
2A-5A	2	5	1	12	1	24	1907.5	1175	5	10	20525	22.42	22.38	23
5A-2A	5	10	1	24	1	49	20450	2450	2	20	18900	22.85	22.79	23
2A-12A	2	5	1	12	1	24	19175	1175	12	10	707.5	23.43	23.32	24
2A-12A	2	5	1	12	1	24	1907.5	1175	12	10	707.5	22.42	22.34	23
12A-2A	12	5	1	12	1	24	23155	5155	2	20	18900	22.97	22.90	23
71A-4A	71	5	1	12	1	24	133147	68611	4	20	20175	22.87	22.81	23

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E2.2 Simultaneous transmission SAR

Table E2.2-1: The sum of SAR values for Main antenna + WiFi-2.4G (1g)

Position		Main antenna (W/kg)	WiFi-2.4G (W/kg)	Sum (W/kg)
Highest SAR value for Head	Right head, Cheek (WCDMA1900)	0.55	0.55	1.10
Highest SAR value for Body	Rear 10mm (LTE B2)	0.78	0.23	1.01
Maximum reported SAR value for Body	Rear 15mm (GSM850)	0.75	0.11	0.86

Table E2.2-2: The sum of SAR values for main antenna and BT (1g)

Position		Main antenna (W/kg)	BT (W/kg)	Sum (W/kg)
Maximum reported SAR value for Head	Left head, Cheek (WCDMA850)	0.81	0.03	0.84
Maximum reported SAR value for Body	Right 10mm (LTE B13)	0.88	\	0.88
Maximum reported SAR value for Body	Rear 15mm (GSM850)	0.75	0.01	0.76

Conclusion:

According to the above tables, the sum of reported SAR values is <1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

E2.3 SAR Test Result

Table E.2.3-1: SAR Values(LTE Band13—Head)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
782	23230	1RB-Middle (24)	Cheek Left	0	22.36	23	0.502	0.58	0.02
782	23230	25RB-High (25)	Cheek Left	0	22.31	23	0.482	0.56	0.04
782	23230	1RB-Middle (24)	Tilt Left	0	22.36	23	0.323	0.37	0.02
782	23230	25RB-High (25)	Tilt Left	0	22.31	23	0.311	0.36	0.03
782	23230	1RB-Middle (24)	Cheek Right	0	22.36	23	0.294	0.34	0.03
782	23230	25RB-High (25)	Cheek Right	0	22.31	23	0.277	0.32	-0.10
782	23230	1RB-Middle (24)	Tilt Right	0	22.36	23	0.233	0.27	0.04
782	23230	25RB-High (25)	Tilt Right	0	22.31	23	0.221	0.26	0.01

Note1: This max SAR value zoom scan graph is Fig B.1

Note2: This LTE mode is QPSK_10MHz.

Table E.2.3-2: SAR Values(LTE Band13—Body 10mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
23230	782	1RB-Middle (24)	Front	10	24.43	25	0.430	0.49	0.01
23230	782	25RB-High (25)	Front	10	23.37	24	0.321	0.37	0.06
23230	782	1RB-Middle (24)	Rear	10	24.43	25	0.600	0.68	-0.01
23230	782	25RB-High (25)	Rear	10	23.37	24	0.439	0.51	0.00
23230	782	1RB-Middle (24)	Left	10	24.43	25	0.431	0.49	-0.02
23230	782	25RB-High (25)	Left	10	23.37	25	0.326	0.47	-0.02
23230	782	1RB-Middle (24)	Right	10	24.43	25	0.774	0.88	-0.17
23230	782	25RB-High (25)	Right	10	23.37	24	0.605	0.70	-0.01
23230	782	1RB-Middle (24)	Top	10	24.43	24	0.237	0.21	0.02
23230	782	25RB-High (25)	Top	10	23.37	25	0.178	0.26	0.00
23230	782	1RB-High (49)	Right	10	24.12	24	0.762	0.74	-0.02
23230	782	1RB-Low (0)	Right	10	24.22	25	0.725	0.87	0.00
23230	782	50RB (0)	Right	10	23.29	24	0.586	0.69	0.01
23230	782	1RB-Middle (24)	Right	10	24.43	25	0.762	0.87	0.04

Note1: This LTE mode is QPSK_10MHz.

Note2: The battery for TLi028C1 reported SAR is 0.87 W/kg, and measured SAR is 0.762 W/kg when in LTE band13 right position

Note3: This max SAR value zoom scan graph is Fig B.2

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Table E.2.3-3: SAR Values(LTE Band25—Head)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
26590	1905	1RB-Middle (50)	Cheek Left	0mm	23.87	25	0.166	0.22	0.14
26590	1905	50RB-Middle (25)	Cheek Left	0mm	22.72	24	0.124	0.17	0.11
26590	1905	1RB-Middle (50)	Tilt Left	0mm	23.87	25	0.093	0.12	-0.17
26590	1905	50RB-Middle (25)	Tilt Left	0mm	22.72	24	0.067	0.09	0.13
26590	1905	1RB-Middle (50)	Cheek Right	0mm	23.87	25	0.200	0.26	0.19
26590	1905	50RB-Middle (25)	Cheek Right	0mm	22.72	24	0.149	0.20	0.15
26590	1905	1RB-Middle (50)	Tilt Right	0mm	23.87	25	0.097	0.13	0.12
26590	1905	50RB-Middle (25)	Tilt Right	0mm	22.72	24	0.073	0.10	0.15

Note1: This max SAR value zoom scan graph is Fig B.3

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-4: SAR Values(LTE Band25—Body 10mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
26590	1905	1RB-Middle (50)	Front	10	22.18	23	0.336	0.41	0.13
26590	1905	50RB-Middle (25)	Front	10	21.88	23	0.320	0.41	0.11
26590	1905	1RB-Middle (50)	Rear	10	22.18	23	0.598	0.72	0.03
26590	1905	50RB-Middle (25)	Rear	10	21.88	23	0.577	0.75	0.12
26590	1905	1RB-Middle (50)	Left	10	22.18	23	0.083	0.10	0.13
26590	1905	50RB-Middle (25)	Left	10	21.88	23	0.080	0.10	0.13
26590	1905	1RB-Middle (50)	Right	10	22.18	23	0.169	0.20	0.17
26590	1905	50RB-Middle (25)	Right	10	21.88	23	0.163	0.21	0.12
26590	1905	1RB-Middle (50)	Bottom	10	22.18	23	0.426	0.51	0.03
26590	1905	50RB-Middle (25)	Bottom	10	21.88	23	0.412	0.53	0.03

Note1: This max SAR value zoom scan graph is Fig B.4

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-5: SAR Values(LTE Band25—Body 15mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
26590	1905	1RB-Middle (50)	Front	15mm	23.00	24	0.234	0.29	0.03
26590	1905	50RB-Middle (25)	Front	15mm	22.83	24	0.226	0.30	0.12
26590	1905	1RB-Middle (50)	Rear	15mm	23.00	24	0.306	0.39	0.15
26590	1905	50RB-Middle (25)	Rear	15mm	22.83	24	0.293	0.38	0.13

Note1: This max SAR value zoom scan graph is Fig B.5

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-6: SAR Values(LTE Band26—Head)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
26865	831.5	1RB-Middle (37)	Cheek Left	0mm	22.19	23	0.642	0.77	-0.02
26765	821.5	36RB-Middle (19)	Cheek Left	0mm	22.07	23	0.628	0.78	0.02
26865	831.5	1RB-Middle (37)	Tilt Left	0mm	22.19	23	0.381	0.46	0.07
26765	821.5	36RB-Middle (19)	Tilt Left	0mm	22.07	23	0.357	0.44	0.04
26865	831.5	1RB-Middle (37)	Cheek Right	0mm	22.19	23	0.351	0.42	0.00
26765	821.5	36RB-Middle (19)	Cheek Right	0mm	22.07	23	0.299	0.37	0.02
26865	831.5	1RB-Middle (37)	Tilt Right	0mm	22.19	23	0.259	0.31	-0.03
26765	821.5	36RB-Middle (19)	Tilt Right	0mm	22.07	23	0.244	0.30	0.01

Note1: This max SAR value zoom scan graph is Fig B.6

Note2: This LTE mode is QPSK_15MHz.

Table E.2.3-7: SAR Values(LTE Band26—Body 10mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
26865	831.5	1RB-Middle (37)	Front	10	24.22	25	0.383	0.46	-0.03
26765	821.5	36RB-Low (0)	Front	10	23.15	24	0.308	0.37	0.09
26865	831.5	1RB-Middle (37)	Rear	10	24.22	25	0.490	0.59	-0.03
26765	821.5	36RB-Low (0)	Rear	10	23.15	24	0.415	0.50	0.02
26865	831.5	1RB-Middle (37)	Left	10	24.22	25	0.414	0.50	-0.02
26765	821.5	36RB-Low (0)	Left	10	23.15	24	0.358	0.44	0.02
26865	831.5	1RB-Middle (37)	Right	10	24.22	25	0.362	0.43	0.02
26765	821.5	36RB-Low (0)	Right	10	23.15	24	0.453	0.55	-0.02
26865	831.5	1RB-Middle (37)	Top	10	24.22	25	0.309	0.37	0.07
26765	821.5	36RB-Low (0)	Top	10	23.15	24	0.190	0.23	0.10

Note1: This max SAR value zoom scan graph is Fig B.7

Note2: This LTE mode is QPSK_15MHz.

Table E.2.3-8: SAR Values(LTE Band41PC3—Head)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
40620	2593	1RB-Middle (50)	Cheek Left	0mm	22.98	23	0.055	0.06	0.17
40620	2593	50RB-High (50)	Cheek Left	0mm	21.8	22	0.036	0.04	0.15
40620	2593	1RB-Middle (50)	Tilt Left	0mm	22.98	23	0.018	0.02	-0.08
40620	2593	50RB-High (50)	Tilt Left	0mm	21.8	22	0.013	0.01	0.16
40620	2593	1RB-Middle (50)	Cheek Right	0mm	22.98	23	0.030	0.03	-0.19
40620	2593	50RB-High (50)	Cheek Right	0mm	21.8	22	0.037	0.04	0.14
40620	2593	1RB-Middle (50)	Tilt Right	0mm	22.98	23	0.028	0.03	0.05
40620	2593	50RB-High (50)	Tilt Right	0mm	21.8	22	0.022	0.02	0.14

Note1: This max SAR value zoom scan graph is Fig B.11

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-9: SAR Values(LTE Band41PC3—Body 10mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
40620	2593	1RB-Middle (50)	Front	10mm	18.59	19	0.222	0.24	0.13
40620	2593	50RB-Middle (25)	Front	10mm	18.59	19	0.213	0.23	-0.07
40620	2593	1RB-Middle (50)	Rear	10mm	18.59	19	0.553	0.61	-0.05
40620	2593	50RB-Middle (25)	Rear	10mm	18.59	19	0.541	0.59	0.17
40620	2593	1RB-Middle (50)	Left	10mm	18.59	19	0.038	0.04	0.11
40620	2593	50RB-Middle (25)	Left	10mm	18.59	19	0.037	0.04	0.06
40620	2593	1RB-Middle (50)	Right	10mm	18.59	19	0.016	0.02	0.10
40620	2593	50RB-Middle (25)	Right	10mm	18.59	19	0.018	0.02	0.05
40620	2593	1RB-Middle (50)	Bottom	10mm	18.59	19	0.590	0.65	-0.07
40620	2593	50RB-Middle (25)	Bottom	10mm	18.59	19	0.565	0.62	-0.16

Note1: This max SAR value zoom scan graph is Fig B.12

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-10: SAR Values(LTE Band41PC3—Body 15mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
40620	2593	1RB-High (99)	Front	15mm	19.67	20	0.135	0.15	-0.13
40620	2593	50RB-Middle (25)	Front	15mm	19.89	20	0.156	0.16	-0.08
40620	2593	1RB-High (99)	Rear	15mm	19.67	20	0.374	0.40	-0.12
40620	2593	50RB-Middle (25)	Rear	15mm	19.89	20	0.322	0.33	0.16

Note1: This max SAR value zoom scan graph is Fig B.13

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-11: SAR Values(LTE Band41PC2—Head)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
40620	2593	1RB-Middle (50)	Cheek Left	0mm	25.94	26	0.063	0.06	0.00
40620	2593	50RB-Middle (25)	Cheek Left	0mm	24.81	25	0.042	0.04	0.17
40620	2593	1RB-Middle (50)	Tilt Left	0mm	25.94	26	0.023	0.02	0.10
40620	2593	50RB-Middle (25)	Tilt Left	0mm	24.81	25	0.017	0.02	-0.16
40620	2593	1RB-Middle (50)	Cheek Right	0mm	25.94	26	0.044	0.04	0.11
40620	2593	50RB-Middle (25)	Cheek Right	0mm	24.81	25	0.047	0.05	0.05
40620	2593	1RB-Middle (50)	Tilt Right	0mm	25.94	26	0.036	0.04	0.12
40620	2593	50RB-Middle (25)	Tilt Right	0mm	24.81	25	0.028	0.03	0.17

Note1: This max SAR value zoom scan graph is Fig B.8

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-12: SAR Values(LTE Band41PC2—Body 10mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
40620	2593	1RB-Middle (50)	Front	10mm	21.99	22	0.301	0.30	-0.14
40620	2593	50RB-Middle (25)	Front	10mm	21.86	22	0.289	0.30	-0.06
40620	2593	1RB-Middle (50)	Rear	10mm	21.99	22	0.736	0.74	-0.16
40620	2593	50RB-Middle (25)	Rear	10mm	21.86	22	0.605	0.62	0.04
40620	2593	1RB-Middle (50)	Left	10mm	21.99	22	0.054	0.05	0.09
40620	2593	50RB-Middle (25)	Left	10mm	21.86	22	0.051	0.05	-0.10
40620	2593	1RB-Middle (50)	Right	10mm	21.99	22	0.027	0.03	-0.22
40620	2593	50RB-Middle (25)	Right	10mm	21.86	22	0.027	0.03	-0.18
40620	2593	1RB-Middle (50)	Bottom	10mm	21.99	22	0.815	0.82	-0.18
40620	2593	50RB-Middle (25)	Bottom	10mm	21.86	22	0.753	0.78	-0.05
41490	2680	1RB-Middle (50)	Bottom	10mm	21.48	22	0.604	0.68	-0.06
39750	2506	1RB-Middle (50)	Bottom	10mm	21.57	22	0.384	0.42	0.02
40620	2593	100RB (0)	Bottom	10mm	21.83	22	0.771	0.80	-0.11

Note1: This max SAR value zoom scan graph is Fig B.9

Note2: This LTE mode is QPSK_20MHz.

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Table E.2.3-13: SAR Values(LTE Band41PC2—Body 15mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
40620	2593	1RB-Middle (50)	Front	15mm	22.97	23	0.200	0.20	-0.01
40620	2593	50RB-High (50)	Front	15mm	22.87	23	0.190	0.20	0.13
40620	2593	1RB-Middle (50)	Rear	15mm	22.97	23	0.422	0.42	-0.09
40620	2593	50RB-High (50)	Rear	15mm	22.87	23	0.392	0.40	0.2

Note1: This max SAR value zoom scan graph is Fig B.10

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-14: SAR Values(LTE Band71—Head)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
13322	673	1RB-Middle (50)	Cheek Left	0mm	22.46	23	0.257	0.29	0.05
13322	673	50RB-Middle (25)	Cheek Left	0mm	22.37	23	0.259	0.30	-0.13
13322	673	1RB-Middle (50)	Tilt Left	0mm	22.46	23	0.188	0.21	0.00
13322	673	50RB-Middle (25)	Tilt Left	0mm	22.37	23	0.187	0.22	0.03
13322	673	1RB-Middle (50)	Cheek Right	0mm	22.46	23	0.174	0.20	0.07
13322	673	50RB-Middle (25)	Cheek Right	0mm	22.37	23	0.174	0.20	0.06
13322	673	1RB-Middle (50)	Tilt Right	0mm	22.46	23	0.132	0.15	-0.12
13322	673	50RB-Middle (25)	Tilt Right	0mm	22.37	23	0.130	0.15	0.04

Note1: This max SAR value zoom scan graph is Fig B.14

Note2: This LTE mode is QPSK_20MHz.

Table E.2.3-15: SAR Values(LTE Band71—Body 10mm)

Frequency		Mode (number of timeslots)	Test Position	Distance (mm)	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.								
13322	673	1RB-Middle (50)	Front	10	24.45	25	0.230	0.26	0.05
13322	673	50RB-High (50)	Front	10	23.23	24	0.190	0.23	0.08
13322	673	1RB-Middle (50)	Rear	10	24.45	25	0.355	0.40	0.05
13322	673	50RB-High (50)	Rear	10	23.23	24	0.284	0.34	0.06
13322	673	1RB-Middle (50)	Left	10	24.45	25	0.121	0.14	0.09
13322	673	50RB-High (50)	Left	10	23.23	24	0.101	0.12	0.04
13322	673	1RB-Middle (50)	Right	10	24.45	25	0.241	0.27	0.05
13322	673	50RB-High (50)	Right	10	23.23	24	0.103	0.12	0.11
13322	673	1RB-Middle (50)	Top	10	24.45	25	0.091	0.10	0.03
13322	673	50RB-High (50)	Top	10	23.23	24	0.078	0.09	0.03

Note1: This max SAR value zoom scan graph is Fig B.15

Note2: This LTE mode is QPSK_20MHz.

E.2.4 SAR Measurement Variability

Table E. 2.4-1: SAR Measurement Variability for Body (1g)

Frequency		Mode/band	Test Position	Distance (mm)	Original measure dSAR (W/kg)	First Repeated measured SAR (W/kg)	The Ratio
MHz	Ch.						
2593	40620	10M_QPSK_1@Mid	Bottom	10	0.815	0.795	1.03

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E.3 Spot Check

E.3.1 Conducted power of selected case

Table E. 3.1-1: The conducted Power Results for 2G Normal Power

GSM 850MHz	Measured Power (dBm)		
	128	512	190
Speech	/	/	32.71
GPRS(4Tx)	27.36	/	/
GSM 1900MHz	Measured Power (dBm)		
	512	661	810
Speech	29.02	/	/
GPRS(4Tx)	/	/	/

Table E. 3.1-2: The conducted Power Results for 2G Low Power

GSM 1900MHz	Measured Power (dBm)		
	512	661	810
Speech	/	/	/
GPRS(4Tx)	23.18	21.42	/

Table E. 3.1-3: The conducted Power Results for WCDMA Normal Power

Item	band	FDD II result		
	ARFCN	9538/9938	9400/9800	9262/9662
WCDMA1900	\	(1907.6MHz)	(1880MHz)	(1852.4MHz)
		/	24.54	/
Item	band	FDD IV result		
	ARFCN	1513/1738	1412/1637	1312/1537
WCDMA1700	\	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)
		24.27	/	/
Item	band	FDD V result		
	ARFCN	4233/4458	4183/4408	4132/4357
WCDMA850	\	(846.6MHz)	(836.6MHz)	(826.4MHz)
		/	24.56	/

Table E. 3.1-4: The conducted Power Results for WCDMA Low Power

Item	band	FDD II result			
	ARFCN	9538/9938	9400/9800		9262/9662
WCDMA1900	\	(1907.6MHz)	(1880MHz)		(1852.4MHz)
			Power drop (3dB)	Power drop (2dB)	
		/	21.56	22.56	/
Item	band	FDD IV result			
	ARFCN	1513/1738	1412/1637		1312/1537
WCDMA1700	\	(1752.6MHz)	(1732.4MHz)		(1712.4MHz)
		21.55	/		22.23
Item	band	FDD V result			
	ARFCN	4233/4458	4183/4408		4132/4357
WCDMA850	\	(846.6MHz)	(836.6MHz)		(826.4MHz)
		/	/		22.56

Table E. 3.1-5: The conducted Power Results for LTE Normal Power

LTE Band2	1RB-Middle	1900(19100)	23.76
LTE Band5	1RB-Middle	844(20600)	24.37
LTE Band12	1RB-Middle	704(23060)	24.71
LTE Band66	1RB-Middle	1720 (132072)	23.82

Table E. 3.1-6: The conducted Power Results for LTE Low Power

LTE Band2	1RB-Middle	1900(19100)	21.76
LTE Band2	50RB-High	1860(18700)	22.46
LTE Band5	25RB-High	836.5(20525)	22.15
LTE Band12	1RB-Middle	704(23060)	22.74
LTE Band66	1RB-Middle	1720(132072)	20.78
LTE Band66	50RB-Middle	1770(133572)	21.91
LTE Band66	50RB-Middle	1745(132322)	21.68
LTE Band66	50RB-Middle	1720(132072)	21.58

Table E. 3.1-7: The Conducted Power for WLAN

Mode / data rate	Channel	Measured Power (dBm)
802.11b – 1Mbps	6	18.72

TableE. 3.1-8: The Conducted Power for Bluetooth

Mode / data rate	Channel	Measured Power (dBm)
EDR (GFSK)	78	10

E.3.2 Measurement Results

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Bandwidth	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Power Drift
Head	GSM850	190	836.6	\	speech	Cheek Left	0mm	Fig B.16	32.71	33.3	0.195	0.22	0.01
Head	LTE Band2	19100	1900	20M	1RB-Middle (50)	Cheek Left	0mm	Fig B.29	23.76	25	0.241	0.32	0.01
Head	WCDMA850 (band5)	4132/4357	826.4	\	12.2K	Cheek Left	0mm	Fig B.27	22.56	23	0.705	0.78	-0.11
Head	LTE Band5	20525	836.5	10MHz	25RB-High (25)	Cheek Left	0mm	Fig B.32	22.15	23	0.590	0.72	-0.14
Head	LTE Band12	23060	704	10MHz	1RB-Middle (24)	Cheek Left	0mm	Fig B.34	22.74	23	0.422	0.45	0.03
Head	LTE Band66	132072	1720	20M	1RB-Middle (50)	Cheek Right	0mm	Fig B.36	23.82	25	0.204	0.27	0.03
Head	GSM1900	512	1850.2	\	speech	Cheek Right	0mm	Fig B.18	29.02	31	0.096	0.15	0.18
Head	WCDMA1900 (band2)	9400/9800	1880	\	RMC	Cheek Right	0mm	Fig B.21	24.54	25	0.298	0.33	0.15
Head	WCDMA1700 (band4)	1513/1738	1752.6	\	RMC	Cheek Right	0mm	Fig B.24	24.27	25	0.298	0.35	0.01
Body	GSM850	128	824.2	\	GPRS 4TX	Rear	10mm	Fig B.17	27.36	28	0.648	0.75	-0.01
Body	GSM1900	661	1880	\	GPRS 4TX	Rear	10mm	Fig B.19	21.42	23	0.210	0.30	0.10
Body	GSM1900	512	1850.2	\	GPRS 4TX	Rear	15mm	Fig B.20	23.18	24	0.238	0.29	0.13
Body	WCDMA1900 (band2)	9400/9800	1880	\	12.2K	Rear	10mm	Fig B.22	21.56	22	0.564	0.62	0.14
Body	WCDMA1900 (band2)	9400/9800	1880	\	12.2K	Rear	15mm	Fig B.23	22.56	23	0.246	0.27	0.13
Body	WCDMA1700 (band4)	1513/1738	1752.6	\	12.2K	Rear	10mm	Fig B.25	21.55	22	0.685	0.76	0.09
Body	WCDMA1700 (band4)	1312/1537	1712.4	\	12.2K	Rear	15mm	Fig B.26	22.23	23	0.360	0.43	0.16
Body	LTE Band2	19100	1900	20MHz	1RB-Middle (50)	Rear	10mm	Fig B.30	21.76	23	0.562	0.75	0.07
Body	LTE Band2	18700	1860	20MHz	50RB-High (50)	Rear	15mm	Fig B.31	22.46	24	0.218	0.31	0.14
Body	LTE Band12	23060	704	10M	1RB-Middle (24)	Rear	10mm	Fig B.35	24.71	25	0.584	0.62	-0.06
Body	LTE Band66	132072	1720	20M	1RB-Middle (50)	Rear	10mm	Fig B.37	20.78	22	0.375	0.50	-0.02
Body	LTE Band66	132072	1720	20MHz	50RB-Middle (25)	Rear	15mm	Fig B.38	21.58	23	0.352	0.49	-0.04
Body	WCDMA850 (band5)	4183/4408	836.6	\	RMC	Right	10mm	Fig B.28	24.56	25	0.686	0.76	-0.11
Body	LTE Band5	20600	844	10M	1RB-Middle (24)	Right	10mm	Fig B.33	24.37	25	0.584	0.68	0.02

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Power Drift
Head	WLAN 2.4G	6	2437	11b	Cheek Right	0mm	Fig B.39	18.72	19.5	99.0%	0.452	0.55	-0.07
Body	WLAN 2.4G	6	2437	11b	Rear	10mm	Fig B.40	18.72	19.5	99.0%	0.194	0.23	0.12
Body	WLAN 2.4G	6	2437	11b	Rear	15mm	Fig B.41	18.72	19.5	99.0%	0.0931	0.11	-0.15

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Figure No./Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Reported SAR 1g (W/kg)	Power Drift
Head	Bluetooth2.4G	78	2480	GFSK	Cheek Right	0mm	Fig B.42	10	11	0.029	0.04	-0.13
Body	Bluetooth2.4G	78	2480	GFSK	Rear	10mm	Fig B.43	10	11	0.014	0.02	-0.16
Body	Bluetooth2.4G	78	2480	GFSK	Rear	15mm	Fig B.44	10	11	0.006	0.01	0.00

E.3.3 Reported SAR Comparison

Table E.3.3-1: Comparison

Exposure Configuration	Technology Band	Reported SAR 1g(W/kg) Original	Reported SAR 1g(W/kg) Spot check
Head (Separation Distance 0mm)	GSM850	0.22	0.22
	GSM1900	0.15	0.15
	WCDMABand2	0.55	0.33
	WCDMABand4	0.41	0.35
	WCDMABand5	0.81	0.78
	LTE Band2	0.43	0.32
	LTE Band5	0.79	0.72
	LTE Band12	0.48	0.45
	LTE Band66	0.33	0.27
	WLAN 2.4GHz	0.30	0.55
	BT 2.4GHz	0.06	0.04
Hotspot (Separation Distance 10mm)	GSM850	0.67	0.75
	GSM1900	0.43	0.30
	WCDMABand2	0.59	0.62
	WCDMABand4	0.65	0.76
	WCDMABand5	0.78	0.76
	LTE Band2	0.78	0.75
	LTE Band5	0.78	0.68
	LTE Band12	0.55	0.62
	LTE Band66	0.55	0.50
	WLAN 2.4GHz	0.14	0.23
	BT 2.4GHz	0.02	0.02
Body Worn(Separation Distance 15mm)	GSM1900	0.25	0.29
	WCDMABand2	0.48	0.27
	WCDMABand4	0.53	0.43
	LTE Band2	0.42	0.31
	LTE Band66	0.35	0.49
	WLAN 2.4GHz	0.06	0.11
	BT 2.4GHz	0.01	0.01

Note1: The spot check results marked by blue are larger than the original result. So they replace the original result and others are shared.

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E.4 List of Main Instruments

Table E.4-1: Comparison

No.	Name	Type	Serial Number	Software version	Hardware version	Calibration Date	Valid Period
01	Probe	EX3DV4	7401	--	--	2021-06-07	2022-06-06
02	DAE	DAE4	797	--	--	2022-05-17	2023-05-16
03	Power Meter	N1914A	MY50001660	--	--	2021-06-12	2022-06-11
04	Radio Communication Analyzer	CMW500	164483	--	--	2022-05-12	2023-05-11
05	Signal Generator	N5181A	MY50143363	--	--	2021-06-12	2022-06-11
06	Power Sensor	E8481H	MY51020011	--	--	2021-06-25	2022-06-24
07	Power Amplifier	ZHL	QA1202003			2022-05-12	2023-05-11
08	Network Analyzer	E5071C	MY46212462	A.10.0x	8.0	2021-06-12	2022-06-11
09	D750V3	Dipole	1037	--	--	2021-04-17	2023-04-16
10	D835V2	Dipole	4d135	--	--	2020-10-16	2022-10-15
11	D1900V2	Dipole	5d153	--	--	2020-10-14	2022-10-13
12	D2600V2	Dipole	1045	--	--	2020-10-13	2020-10-12

E.5 GRAPH RESULTS

LTE Band 13 Cheek Left

Date/Time: 2022/6/3

Electronics: DAE4 Sn797

Medium: Head 750MHz

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.904 \text{ S/m}$; $\epsilon_r = 41.421$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: LTE Band 13 (0); Frequency: 782 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.59, 10.59, 10.59)

Area Scan (8x14x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.543 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.23 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.816 W/kg

SAR(1 g) = 0.502 W/kg ; SAR(10 g) = 0.381 W/kg

Maximum value of SAR (measured) = 0.527 W/kg

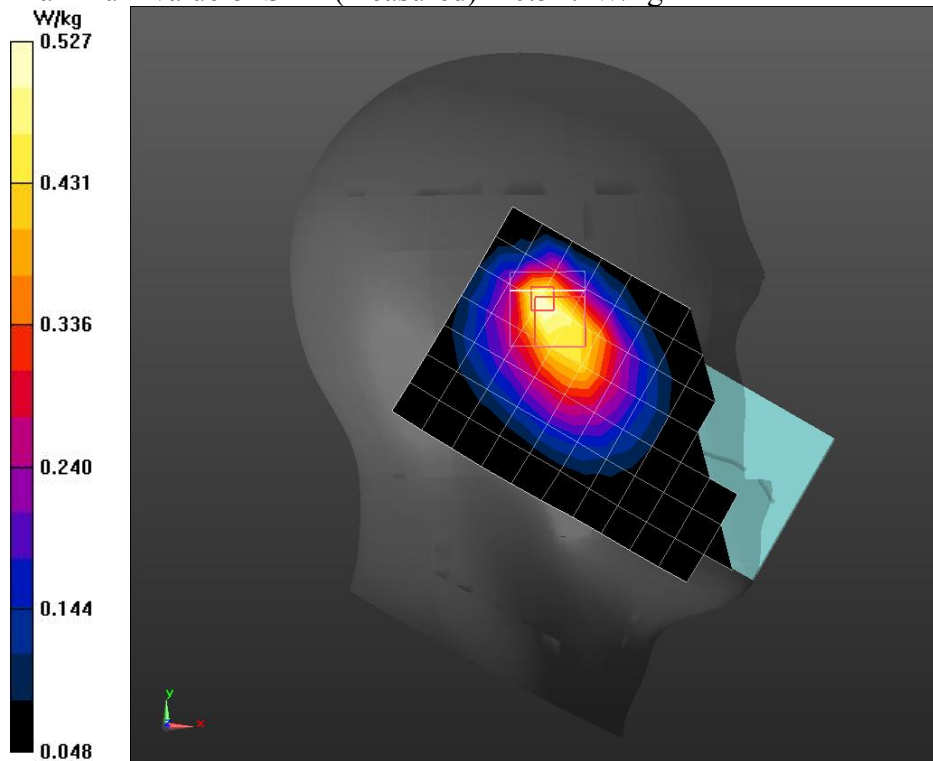


Fig B.1

LTE Band 13 Body Right 10mm Hotspot

Date/Time: 2022/6/3

Electronics: DAE4 Sn797

Medium: Head 750MHz

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.904 \text{ S/m}$; $\epsilon_r = 41.421$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C Communication System: LTE Band 13 (0); Frequency: 782 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.59, 10.59, 10.59)

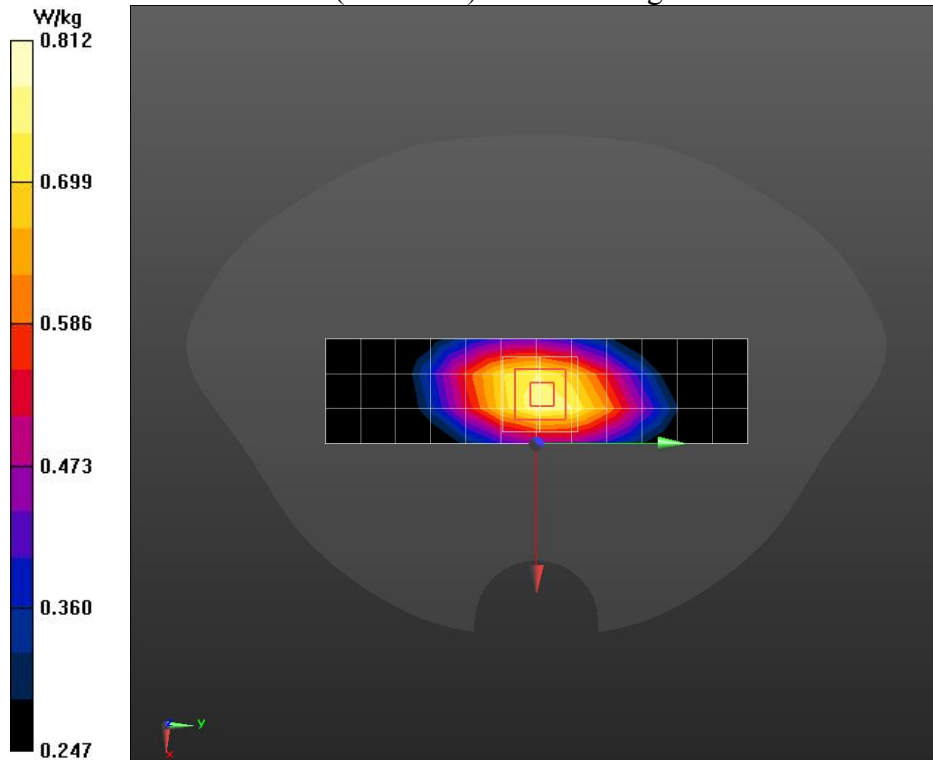
Area Scan (4x13x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.763 W/kg **Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 30.30 V/m ; Power Drift = -0.17 dB Peak SAR (extrapolated) = 0.940 W/kg **SAR(1 g) = 0.774 W/kg ; SAR(10 g) = 0.610 W/kg** Maximum value of SAR (measured) = 0.812 W/kg 

Fig B.2

LTE Band 25 Cheek Right

Date/Time: 2022/6/4

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.417 \text{ S/m}$; $\epsilon_r = 40.191$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C Communication System: LTE Band 25 (0); Frequency: 1905 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

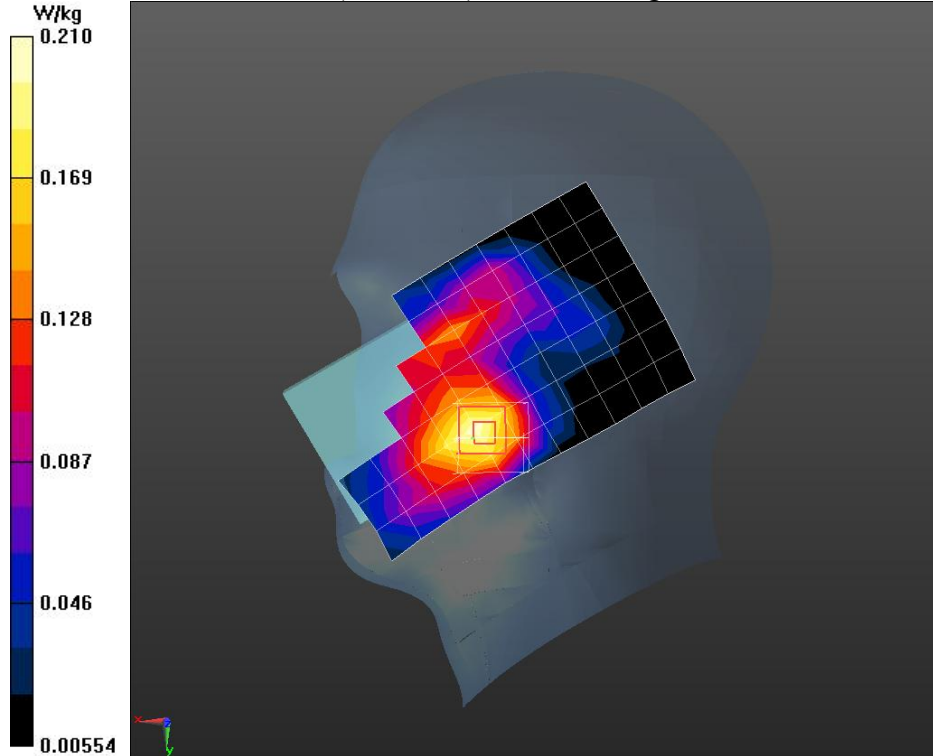
Area Scan (8x14x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.207 W/kg **Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.676 V/m ; Power Drift = 0.19 dB Peak SAR (extrapolated) = 0.296 W/kg **SAR(1 g) = 0.200 W/kg ; SAR(10 g) = 0.132 W/kg** Maximum value of SAR (measured) = 0.210 W/kg 

Fig B.3

LTE Band 25 Body Rear 10mm Hotspot

Date/Time: 2022/6/4

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.417 \text{ S/m}$; $\epsilon_r = 40.191$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: Liquid Temperature:

Communication System: LTE Band 25 (0); Frequency: 1905 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.556 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.563 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.646 W/kg

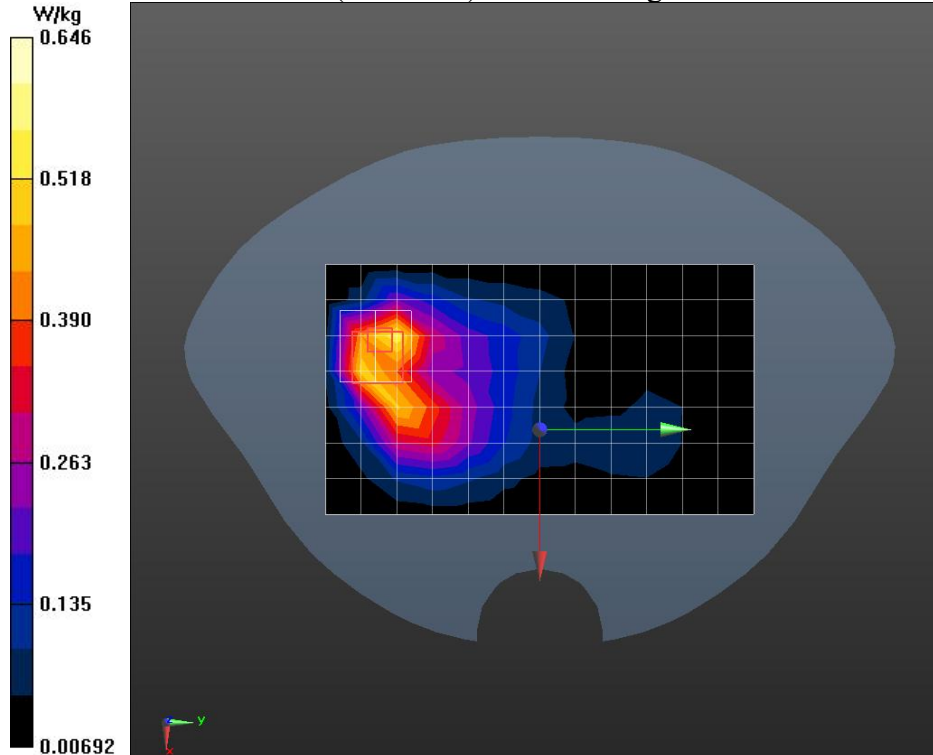


Fig B.4

LTE Band 25 Body Rear 15mm

Date/Time: 2022/6/4

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.417 \text{ S/m}$; $\epsilon_r = 40.191$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C Communication System: LTE Band 25 (0); Frequency: 1905 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

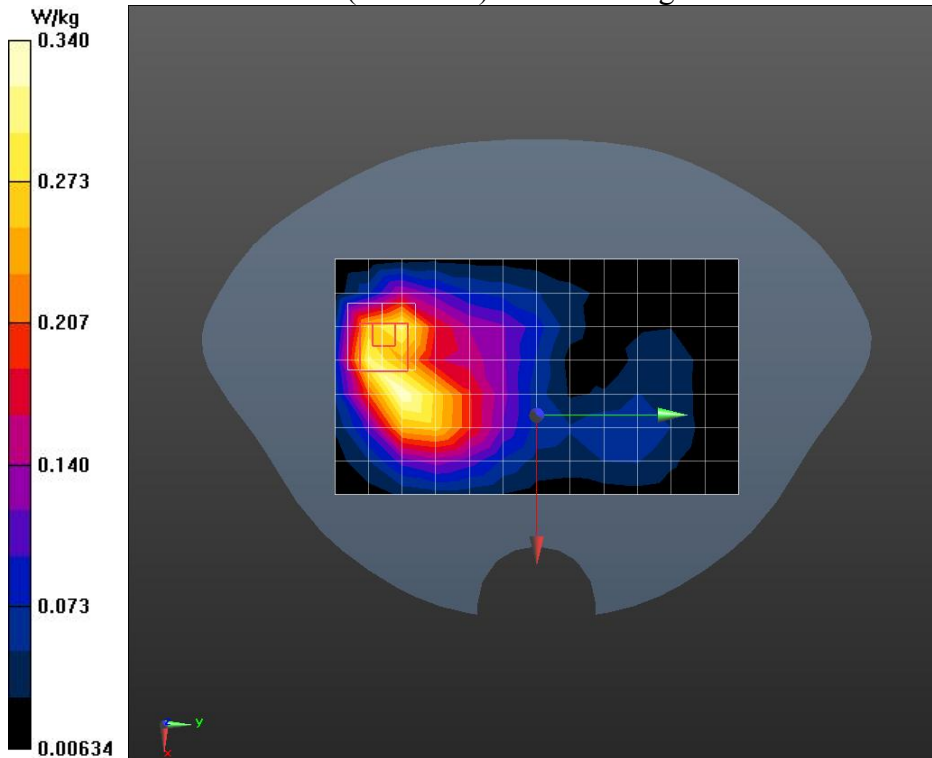
Area Scan (8x13x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.337 W/kg **Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.600 V/m ; Power Drift = 0.35 dB Peak SAR (extrapolated) = 0.557 W/kg SAR(1 g) = 0.306 W/kg ; SAR(10 g) = 0.178 W/kg Maximum value of SAR (measured) = 0.340 W/kg 

Fig B.5

LTE Band 26 Cheek Left

Date/Time: 2022/6/3

Electronics: DAE4 Sn797

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 41.811$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: LTE band26 (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17,10.17)

Area Scan (8x14x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.679 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.56 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.975 W/kg

SAR(1 g) = 0.628 W/kg; SAR(10 g) = 0.467 W/kg

Maximum value of SAR (measured) = 0.667 W/kg

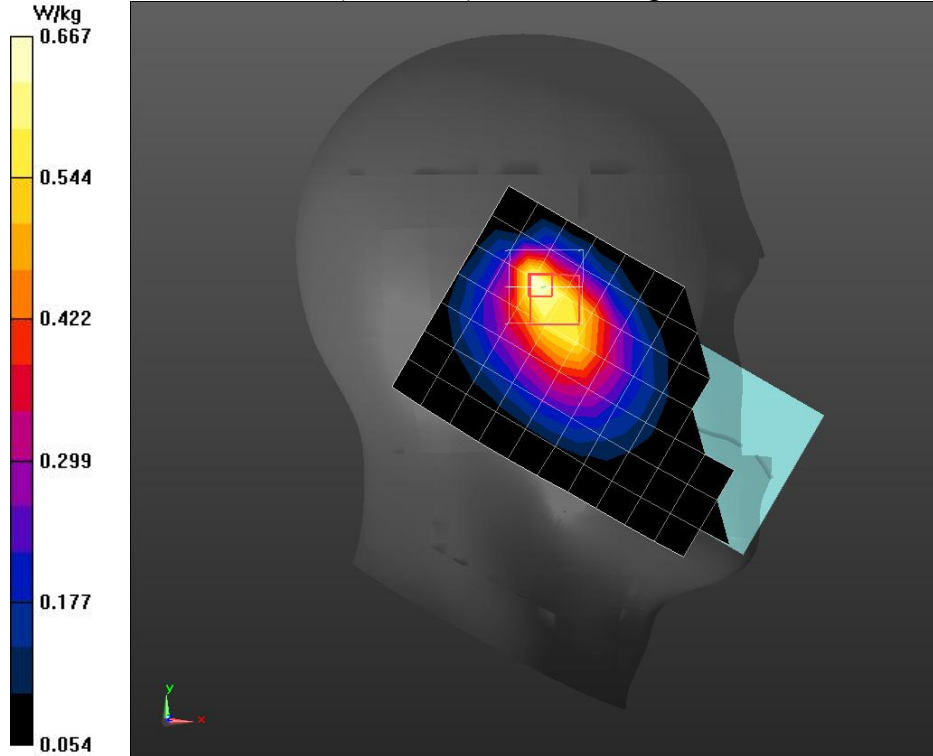


Fig B.6

LTE Band 26 Body Rear 10mm

Date/Time: 2022/6/3

Electronics: DAE4 Sn797

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 41.92$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE band26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17,10.17)

Area Scan (8x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.501 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 22.80 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.515 W/kg

SAR(1 g) = 0.490 W/kg; SAR(10 g) = 0.431 W/kg

Maximum value of SAR (measured) = 0.503 W/kg

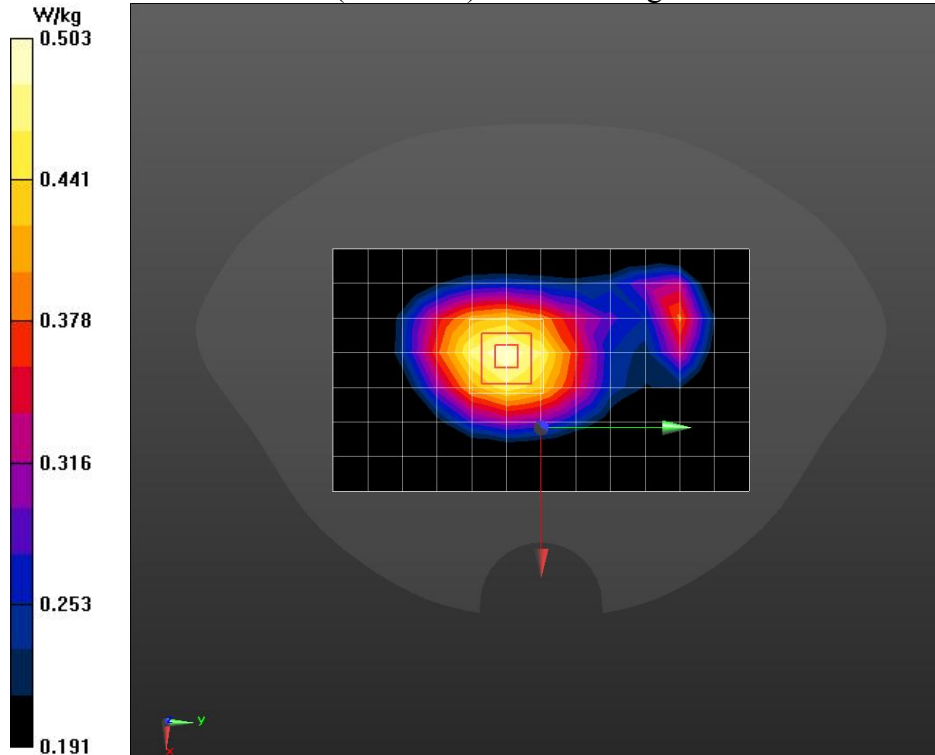


Fig B.7

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336

Tel: 0086-23-88069965

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LTE Band41PC2 Cheek Left

Date/Time: 2022/6/5

Electronics: DAE4 Sn797

Medium: Head 2600MHz

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.879$ S/m; $\epsilon_r = 38.111$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: LTE Band41; Frequency: 2593 MHz; Duty Cycle: 1:1.230994

Probe: EX3DV4 - SN7401ConvF(7.64, 7.64, 7.64)

Area Scan (8x14x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0641 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.426 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.028 W/kg

Maximum value of SAR (measured) = 0.0691 W/kg

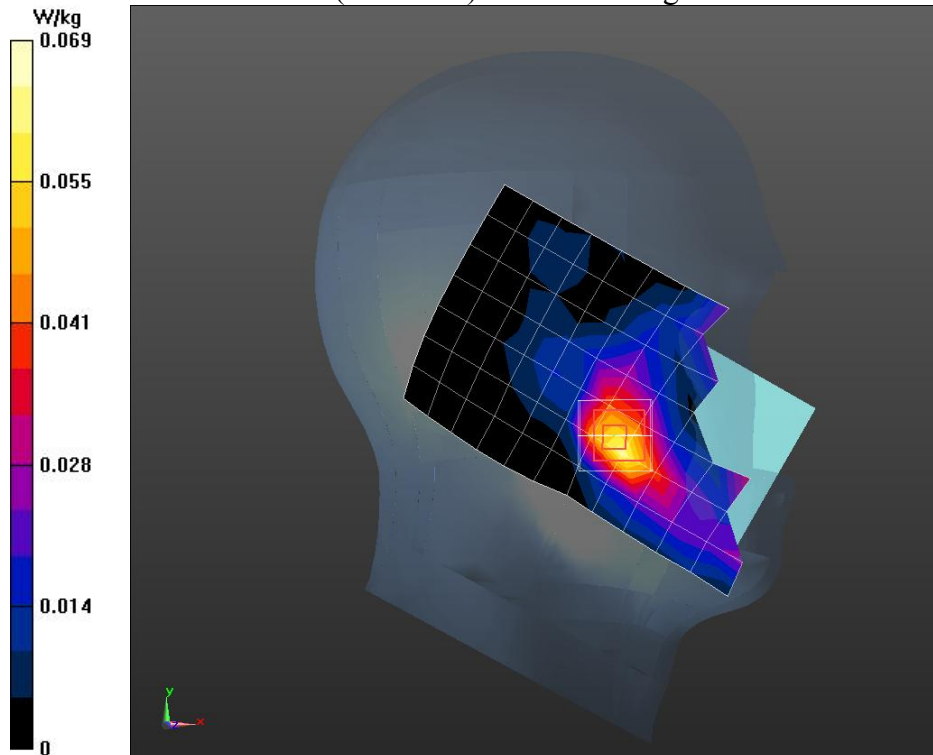


Fig B.8

LTE Band 41PC2 Body Bottom 10mm Hotspot

Date/Time: 2022/6/5

Electronics: DAE4 Sn797

Medium: Head 2600MHz

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.879$ S/m; $\epsilon_r = 38.111$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band41; Frequency: 2593 MHz; Duty Cycle: 1:1.230994

Probe: EX3DV4 - SN7401ConvF(7.64, 7.64, 7.64)

Area Scan (5x8x1):Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.885 W/kg

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

Reference Value = 21.31 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.347 W/kg

Maximum value of SAR (measured) = 0.900 W/kg

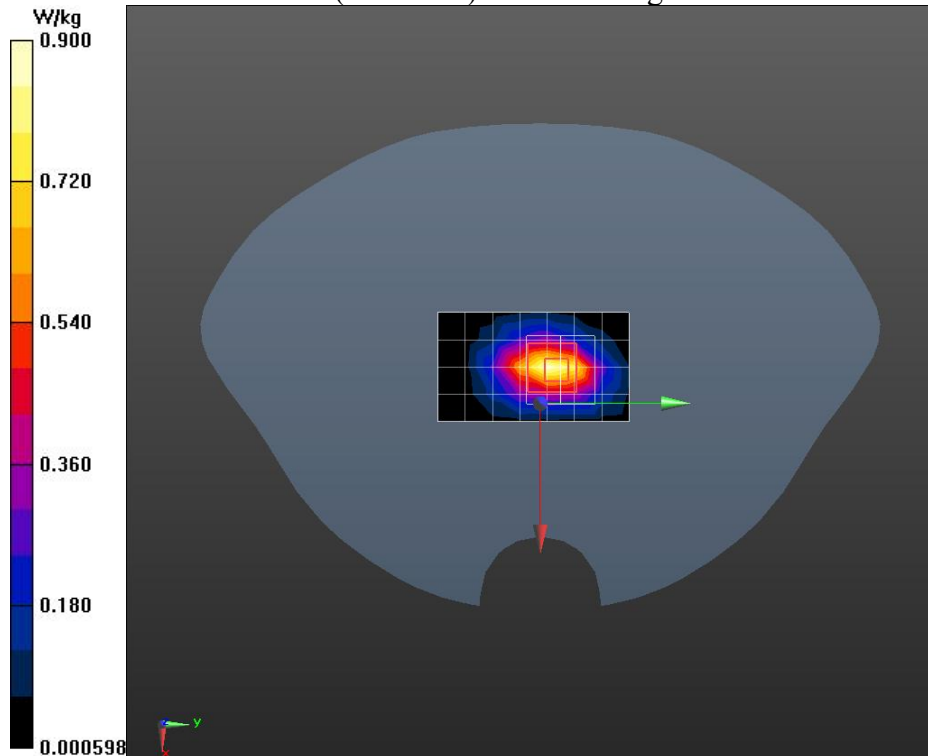


Fig B.9

LTE Band 41PC2 Body Rear 15mm

Date/Time: 2022/6/5

Electronics: DAE4 Sn797

Medium: Head 2600MHz

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.879$ S/m; $\epsilon_r = 38.111$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: LTE Band41; Frequency: 2593 MHz; Duty Cycle: 1:1.230994

Probe: EX3DV4 - SN7401ConvF(7.64, 7.64, 7.64)

Area Scan (8x13x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.386 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.063 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.422 W/kg; SAR(10 g) = 0.188 W/kg

Maximum value of SAR (measured) = 0.460 W/kg

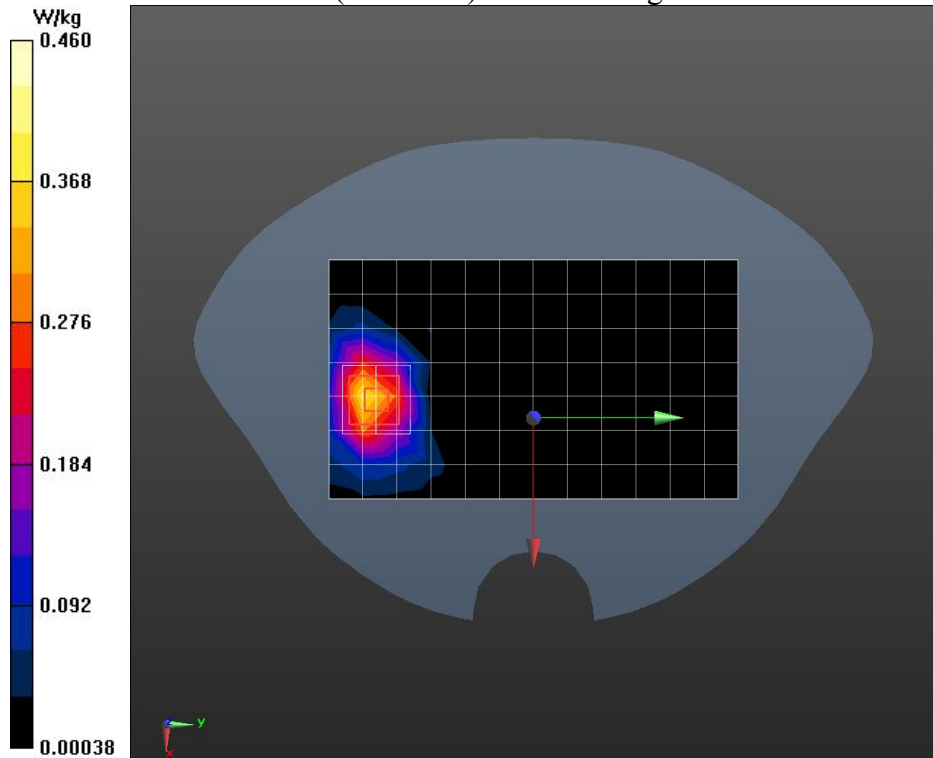


Fig B.10

LTE Band 41PC3 Cheek Left

Date/Time: 2022/6/5

Electronics: DAE4 Sn797

Medium: Head 2600MHz

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.879$ S/m; $\epsilon_r = 38.111$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band41; Frequency: 2593 MHz; Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7401ConvF(7.64, 7.64, 7.64)

Area Scan (8x14x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0502 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 0.9070 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.121 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.023 W/kg

Maximum value of SAR (measured) = 0.0631 W/kg

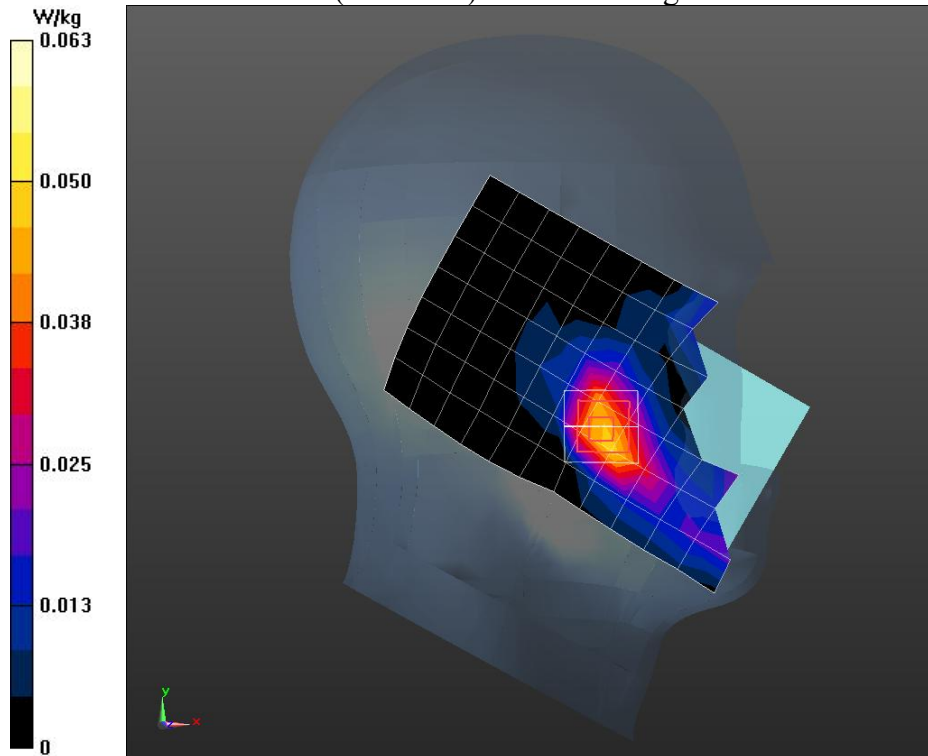


Fig B.11

LTE Band 41PC3 Body Bottom 10mm Hotspot

Date/Time: 2022/6/5

Electronics: DAE4 Sn797

Medium: Head 2600MHz

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.879$ S/m; $\epsilon_r = 38.111$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band41; Frequency: 2593 MHz; Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7401ConvF(7.64, 7.64, 7.64)

Area Scan (4x7x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.549 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 17.49 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 0.646 W/kg

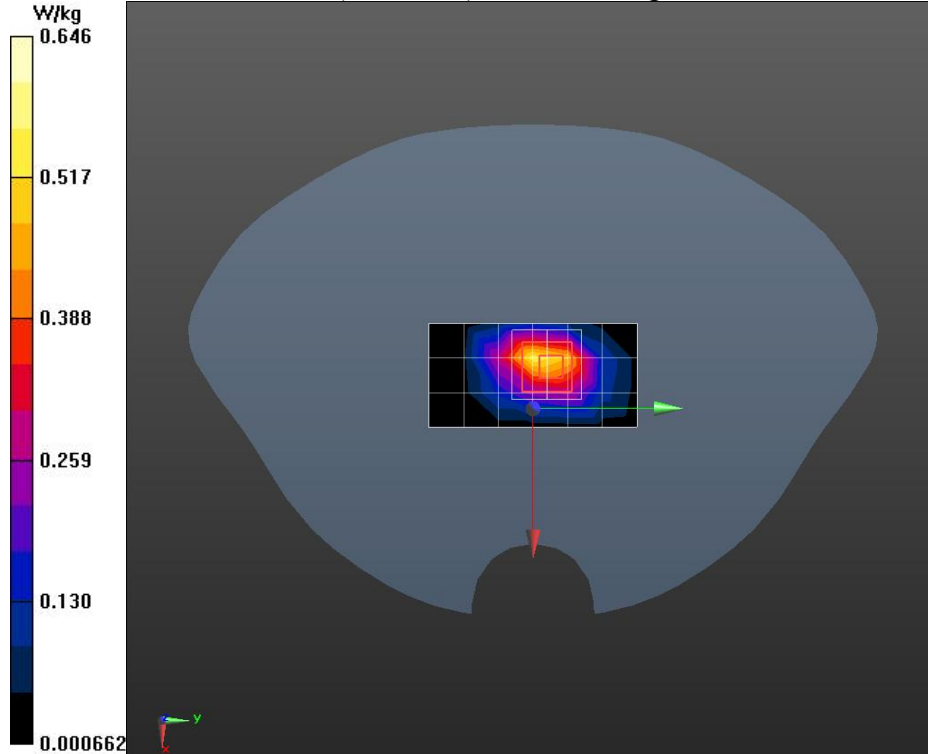


Fig B.12

LTE Band 41PC3 Body Rear 15mm

Date/Time: 2022/6/5

Electronics: DAE4 Sn797

Medium: Head 2600MHz

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.879$ S/m; $\epsilon_r = 38.111$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band41; Frequency: 2593 MHz; Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN7401ConvF(7.64, 7.64, 7.64)

Area Scan (8x13x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.328 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.501 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.939 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 0.410 W/kg

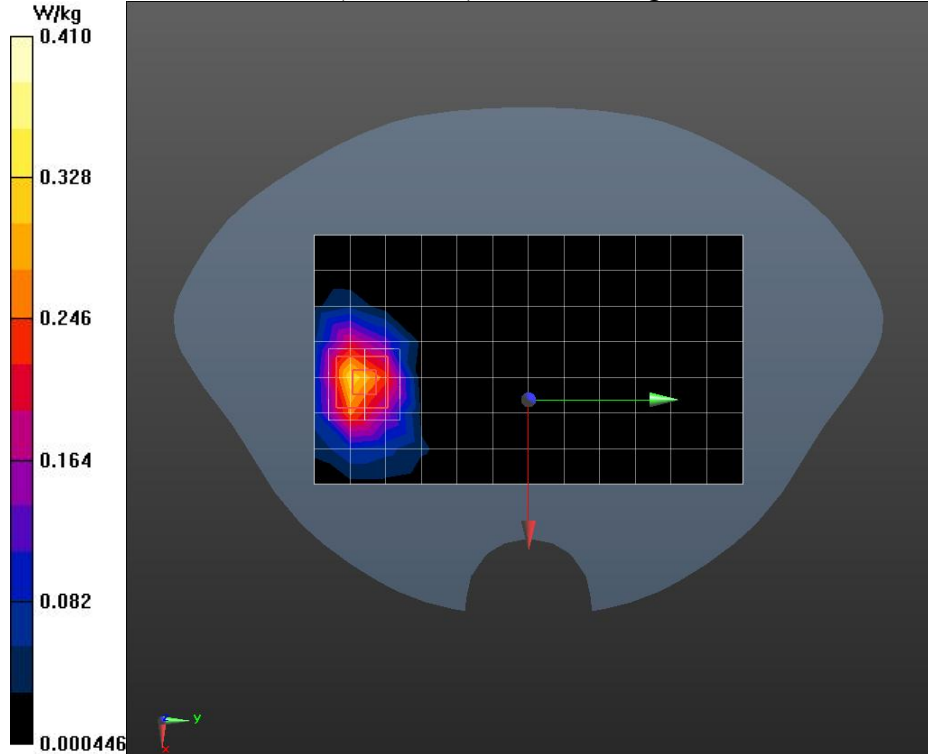


Fig B.13

LTE Band 71 Cheek Left

Date/Time: 2022/6/3

Electronics: DAE4 Sn797

Medium: Head 750MHz

Medium parameters used: $f = 673$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 43.465$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 71 (0); Frequency: 673 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.59, 10.59, 10.59)

Area Scan (8x14x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.280 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 13.73 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 0.274 W/kg

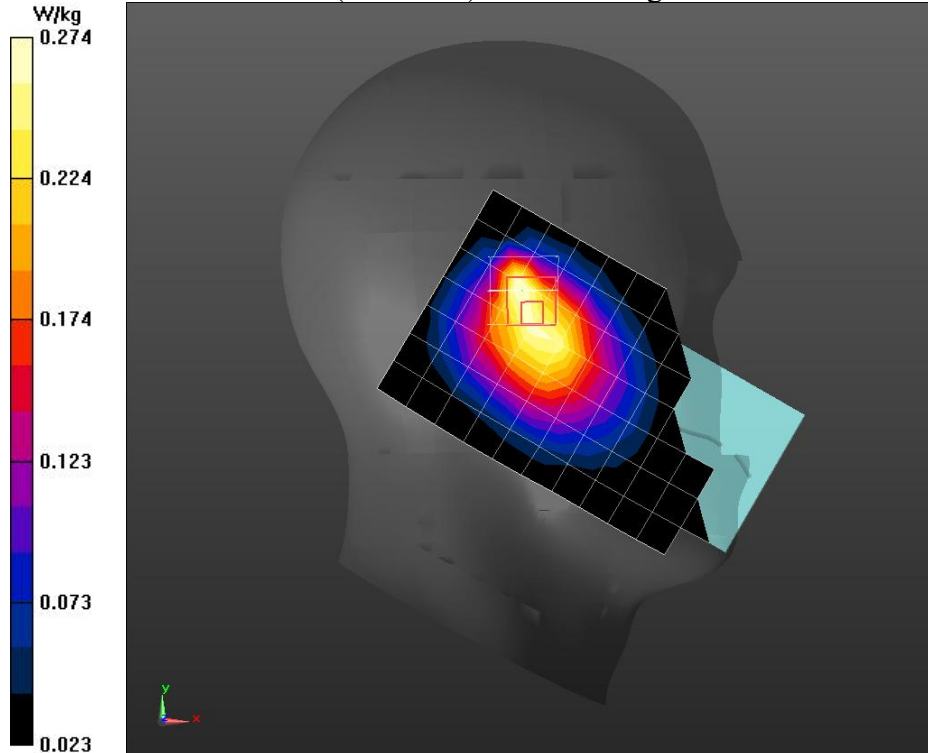


Fig B.14

LTE Band 71 Body Rear 10mm Hotspot

Date/Time: 2022/6/3

Electronics: DAE4 Sn797

Medium: Head 750MHz

Medium parameters used: $f = 673 \text{ MHz}$; $\sigma = 0.874 \text{ S/m}$; $\epsilon_r = 43.465$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band71 (0); Frequency: 673 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.59, 10.59, 10.59)

Area Scan (8x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.361 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.14 V/m ; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.355 W/kg ; SAR(10 g) = 0.310 W/kg

Maximum value of SAR (measured) = 0.364 W/kg

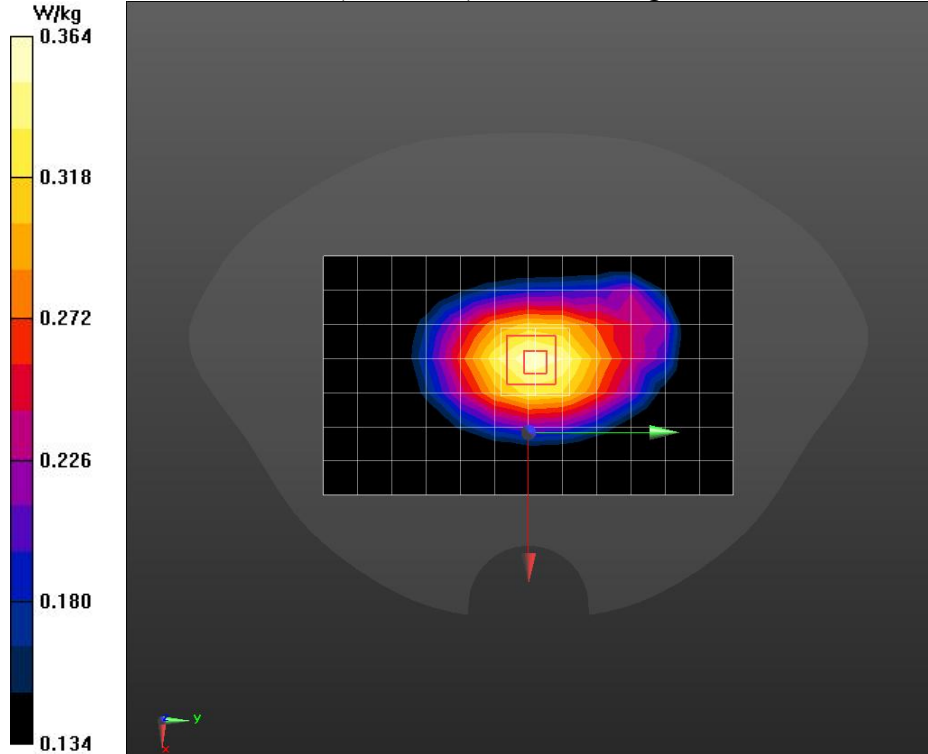


Fig B.15

GSM850 Cheek Left

Date/Time: 2022/5/31

Electronics: DAE4 Sn797

Medium: Head 835MHz

Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.908 \text{ S/m}$; $\epsilon_r = 41.99$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C Communication System: Generic GSM (0); Frequency: 836.6 MHz ; Duty Cycle: 1:8.30042

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17, 10.17)

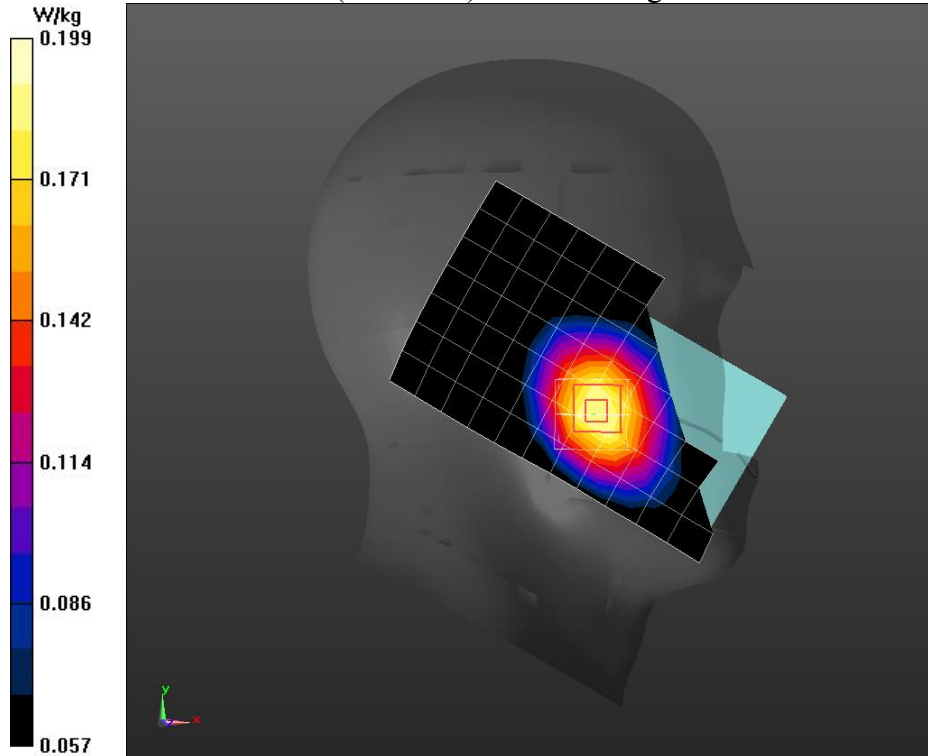
Area Scan (8x14x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.189 W/kg **Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.944 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.202 W/kg **SAR(1 g) = 0.195 W/kg ; SAR(10 g) = 0.179 W/kg** Maximum value of SAR (measured) = 0.199 W/kg 

Fig B.16

GSM850 Body Rear 10mm Hotspot

Date/Time: 2022/5/31

Electronics: DAE4 Sn797

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 41.836$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: Generic GSM (0); Frequency: 824.2 MHz; Duty Cycle: 1:2

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17, 10.17)

Area Scan (9x14x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.514 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.72 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.374 W/kg

Maximum value of SAR (measured) = 0.721 W/kg

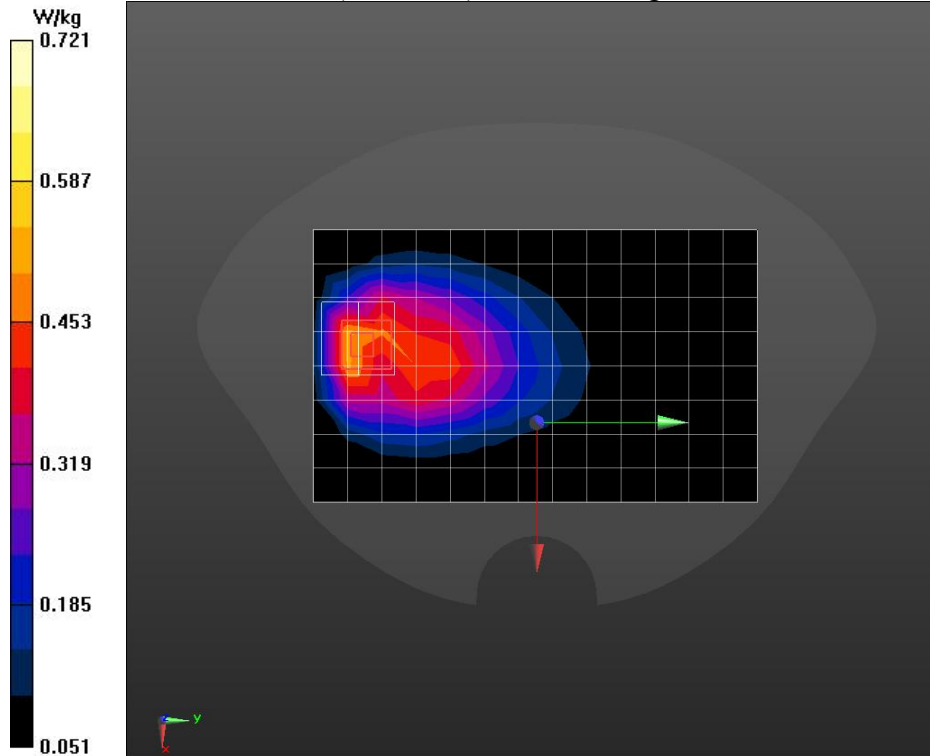


Fig B.17

GSM1900 Cheek Right

Date/Time: 2022/5/24

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.379$ S/m; $\epsilon_r = 39.465$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: GPRS1900 (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x14x1):Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.101 W/kg

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

Reference Value = 3.252 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.061 W/kg

Maximum value of SAR (measured) = 0.105 W/kg

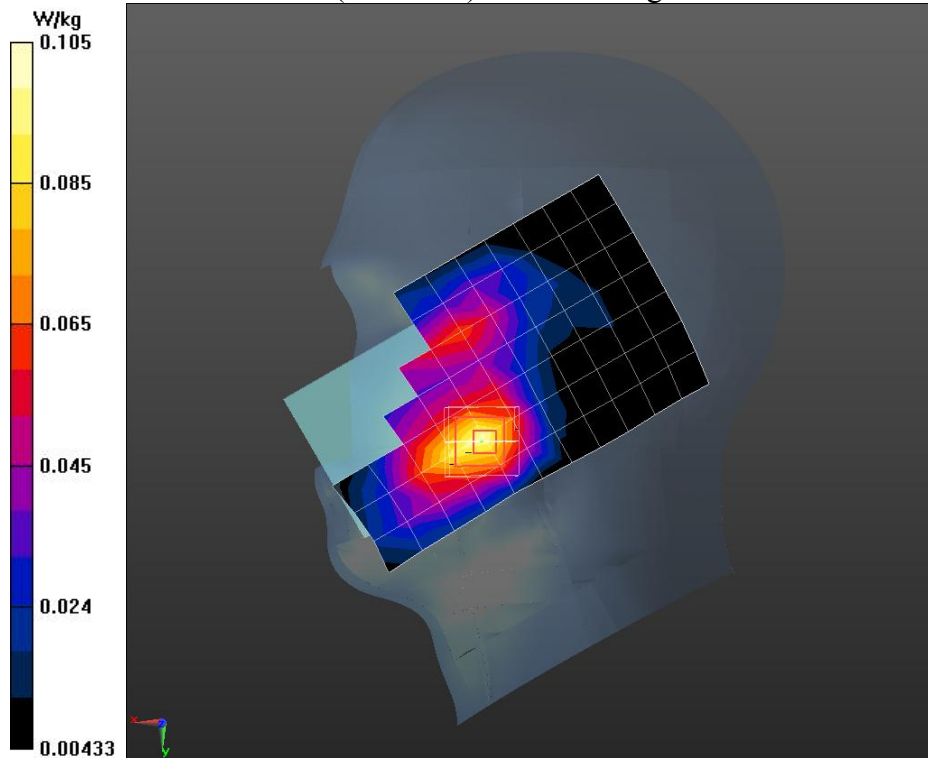


Fig B.18

GSM1900 Body Rear 10mm Hotspot

Date/Time: 2022/5/24

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.406 \text{ S/m}$; $\epsilon_r = 39.288$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: Generic GSM (0); Frequency: 1880 MHz ; Duty Cycle: 1:2

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.211 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.749 V/m ; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.210 W/kg ; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.233 W/kg

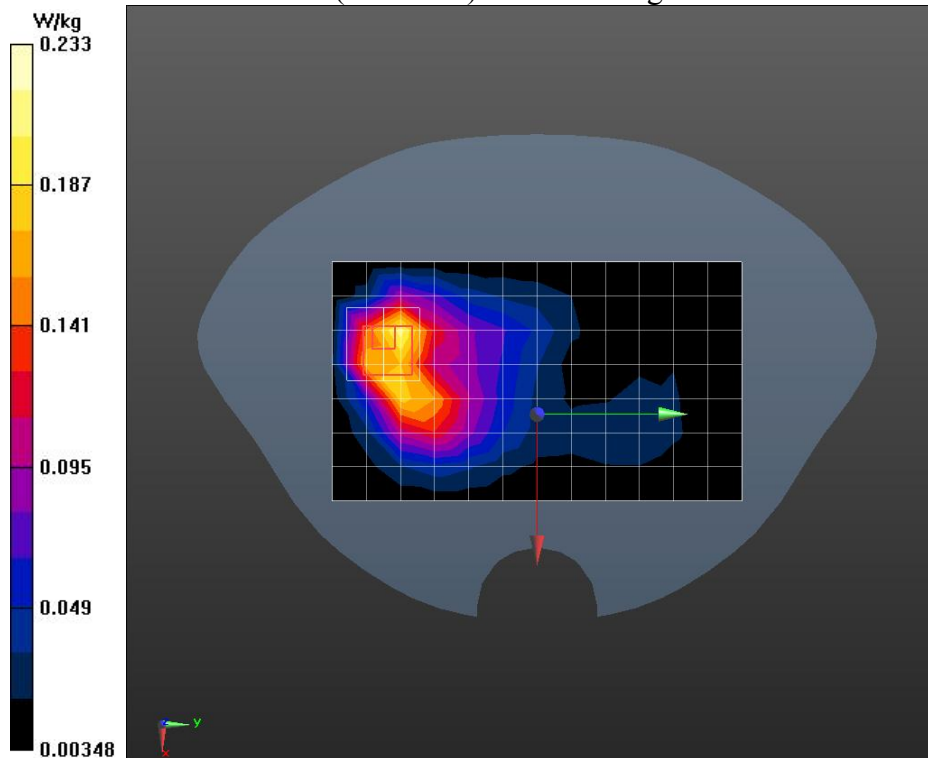


Fig B.19

GSM1900 Body Rear 15mm

Date/Time: 2022/5/24

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.379$ S/m; $\epsilon_r = 39.465$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: Generic GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.267 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.333 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.249 W/kg

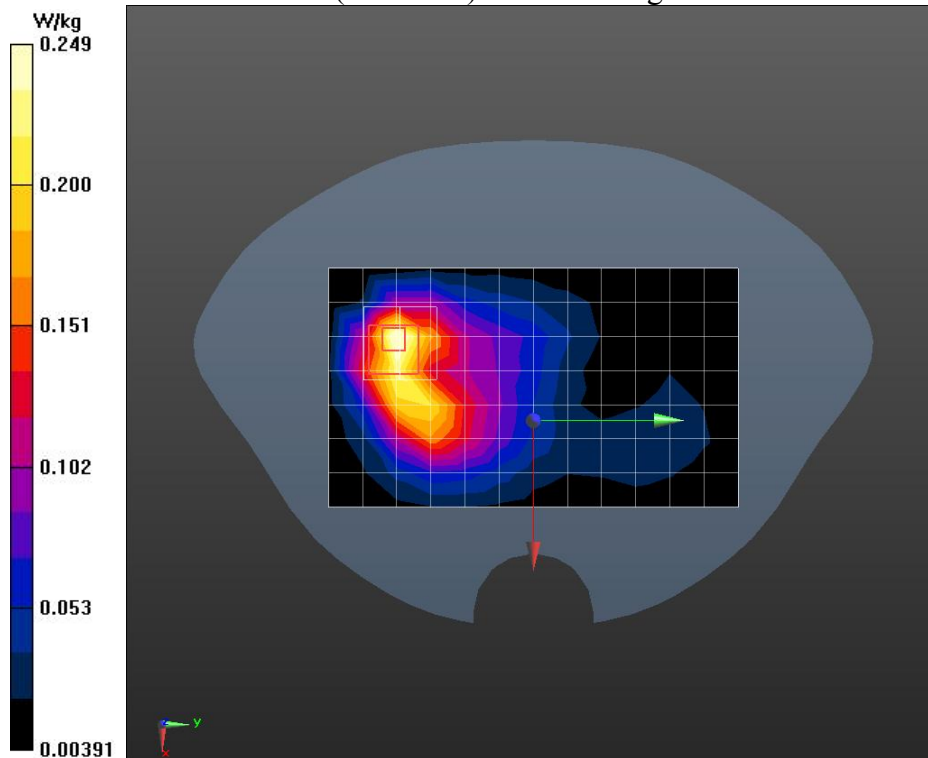


Fig B.20

WCDMA Band2 Cheek Right

Date/Time: 2022/5/23

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ S/m; $\epsilon_r = 39.288$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

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

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x14x1):Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.320 W/kg

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

Reference Value = 5.951 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.186 W/kg

Maximum value of SAR (measured) = 0.322 W/kg

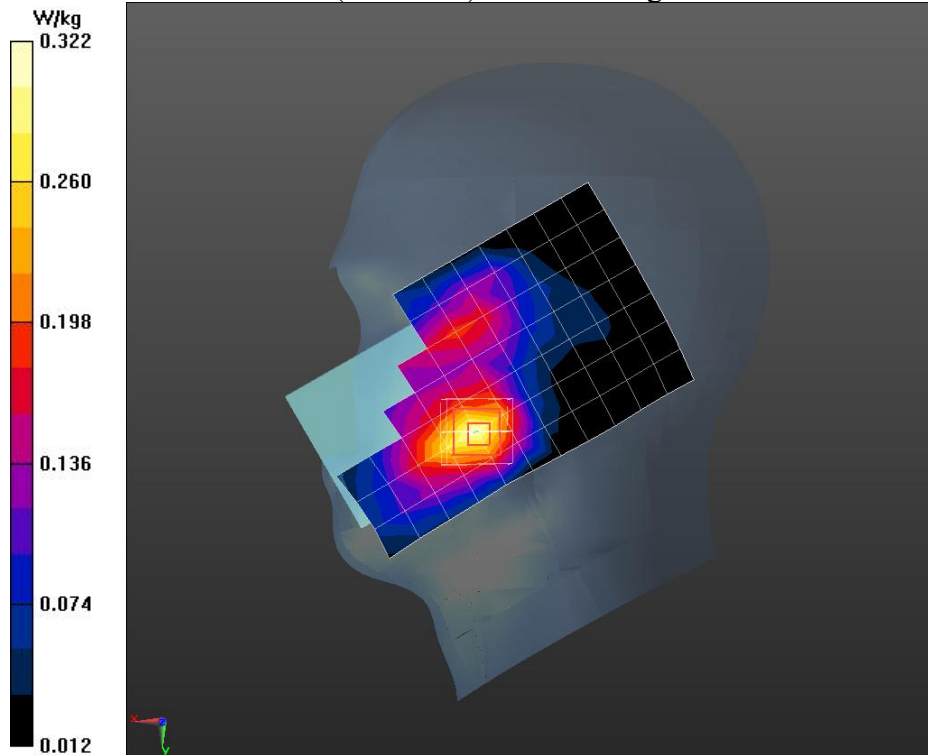


Fig B.21

WCDMA Band2 Body Rear 10mm Hotspot

Date/Time: 2022/5/23

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.406 \text{ S/m}$; $\epsilon_r = 39.288$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C Communication System: WCDMA (0); Frequency: 1880 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

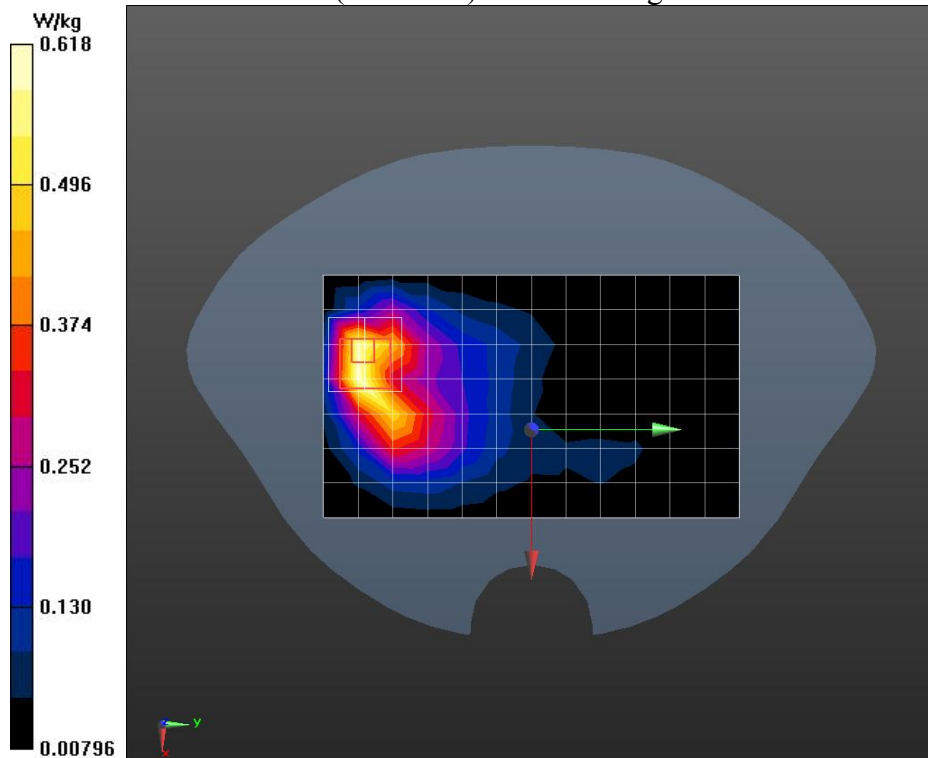
Area Scan (8x13x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.605 W/kg **Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.099 V/m ; Power Drift = 0.14 dB Peak SAR (extrapolated) = 1.12 W/kg **SAR(1 g) = 0.564 W/kg ; SAR(10 g) = 0.301 W/kg** Maximum value of SAR (measured) = 0.618 W/kg 

Fig B.22

WCDMA Band2 Body Rear 15mm

Date/Time: 2022/5/23

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.406$ S/m; $\epsilon_r = 39.288$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

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

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.254 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.885 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.265 W/kg

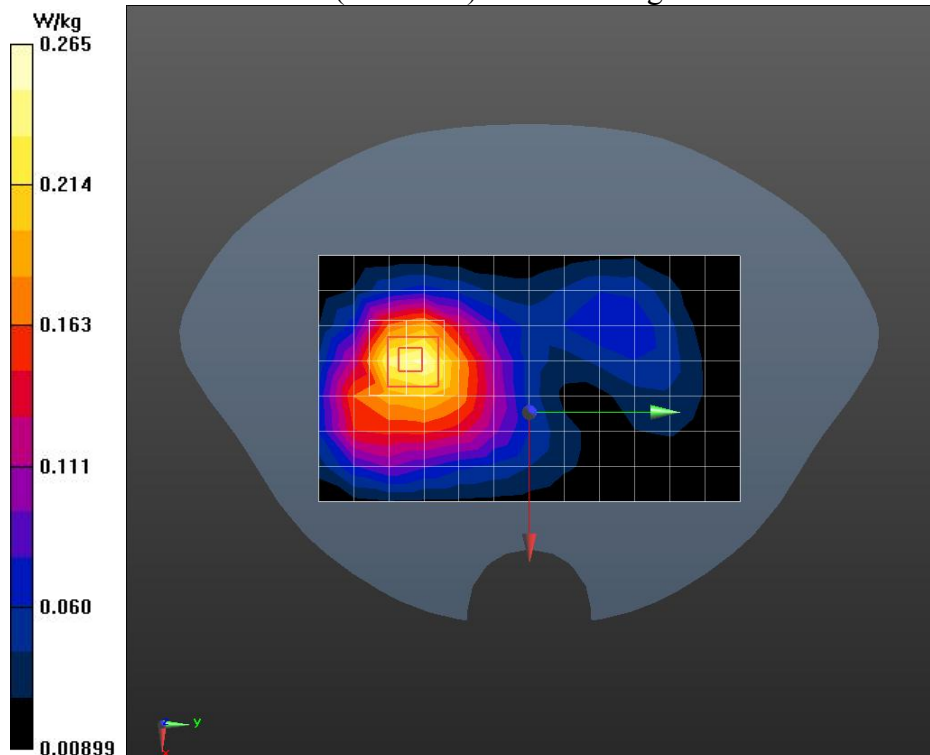


Fig B.23

WCDMA Band4 Cheek Right

Date/Time: 2022/5/25

Electronics: DAE4 Sn797

Medium: Head 1750MHz

Medium parameters used: $f = 1753 \text{ MHz}$; $\sigma = 1.365 \text{ S/m}$; $\epsilon_r = 41.126$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C Communication System: WCDMA (0); Frequency: 1752.6 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.62, 8.62, 8.62)

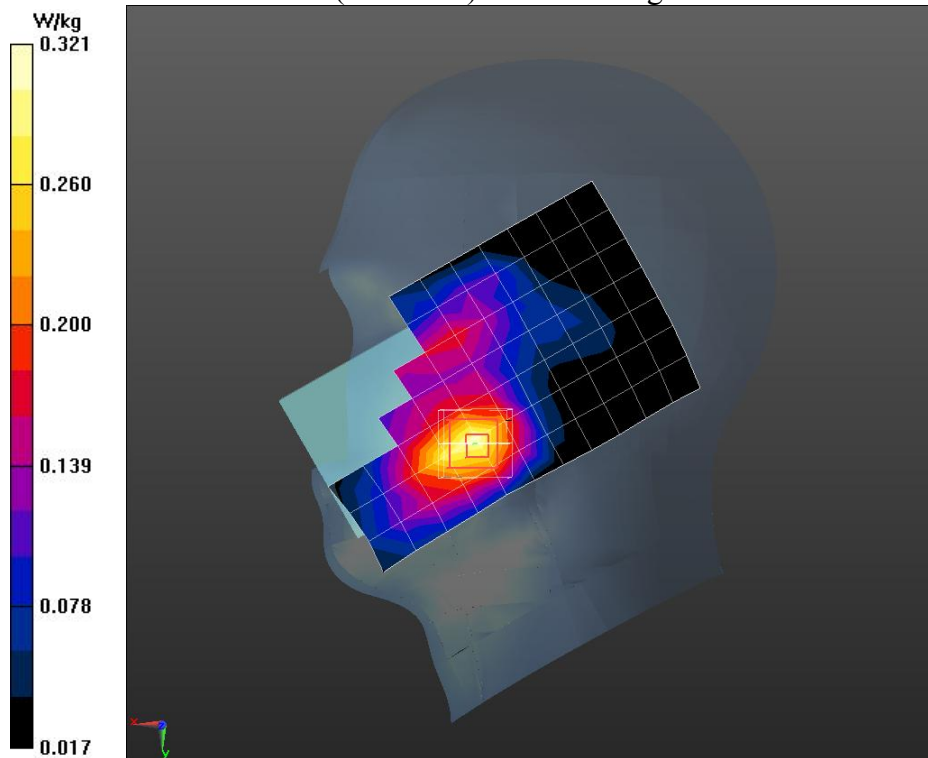
Area Scan (8x14x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.315 W/kg **Zoom Scan (7x7x7)/Cube 0:**Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.556 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.478 W/kg **SAR(1 g) = 0.298 W/kg ; SAR(10 g) = 0.195 W/kg** Maximum value of SAR (measured) = 0.321 W/kg 

Fig B.24

WCDMA Band4 Body Rear 10mm Hotspot

Date/Time: 2022/5/25

Electronics: DAE4 Sn797

Medium: Head 1750MHz

Medium parameters used: $f = 1753 \text{ MHz}$; $\sigma = 1.365 \text{ S/m}$; $\epsilon_r = 41.126$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C Communication System: WCDMA (0); Frequency: 1752.6 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.62, 8.62, 8.62)

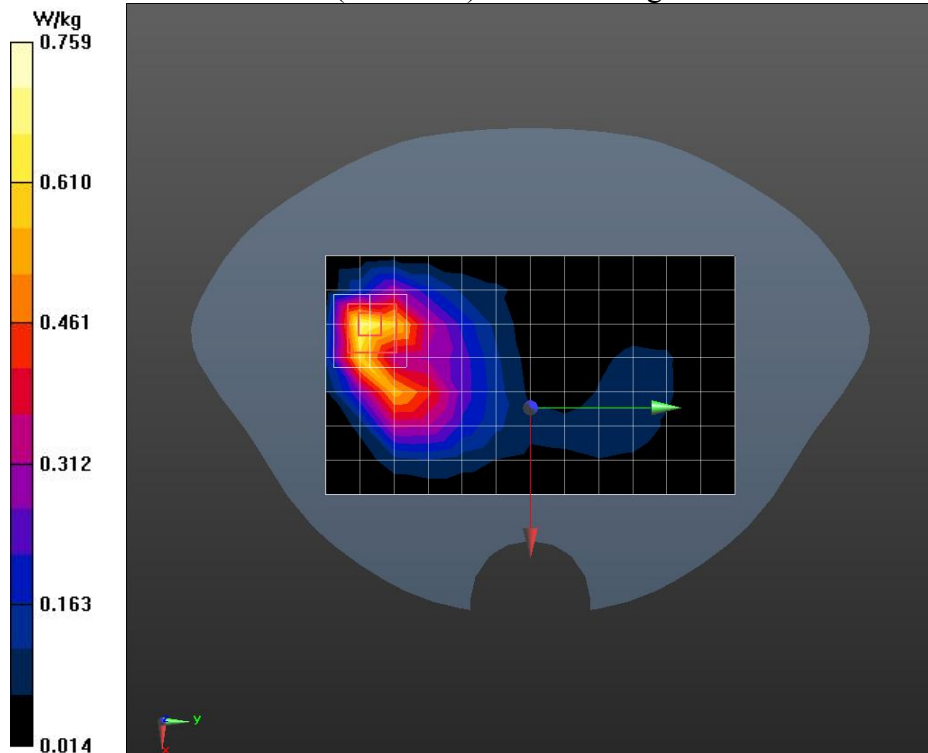
Area Scan (8x13x1):Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 0.693 W/kg **Zoom Scan (5x5x7)/Cube 0:**Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 5.761 V/m ; Power Drift = 0.09 dB Peak SAR (extrapolated) = 1.33 W/kg **SAR(1 g) = 0.685 W/kg ; SAR(10 g) = 0.349 W/kg** Maximum value of SAR (measured) = 0.759 W/kg 

Fig B.25

WCDMA Band4 Body Rear 15mm

Date/Time: 2022/5/25

Electronics: DAE4 Sn797

Medium: Head 1750MHz

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.331$ S/m; $\epsilon_r = 41.099$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.62, 8.62, 8.62)

Area Scan (8x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.366 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.503 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.625 W/kg

SAR(1 g) = 0.360 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 0.394 W/kg

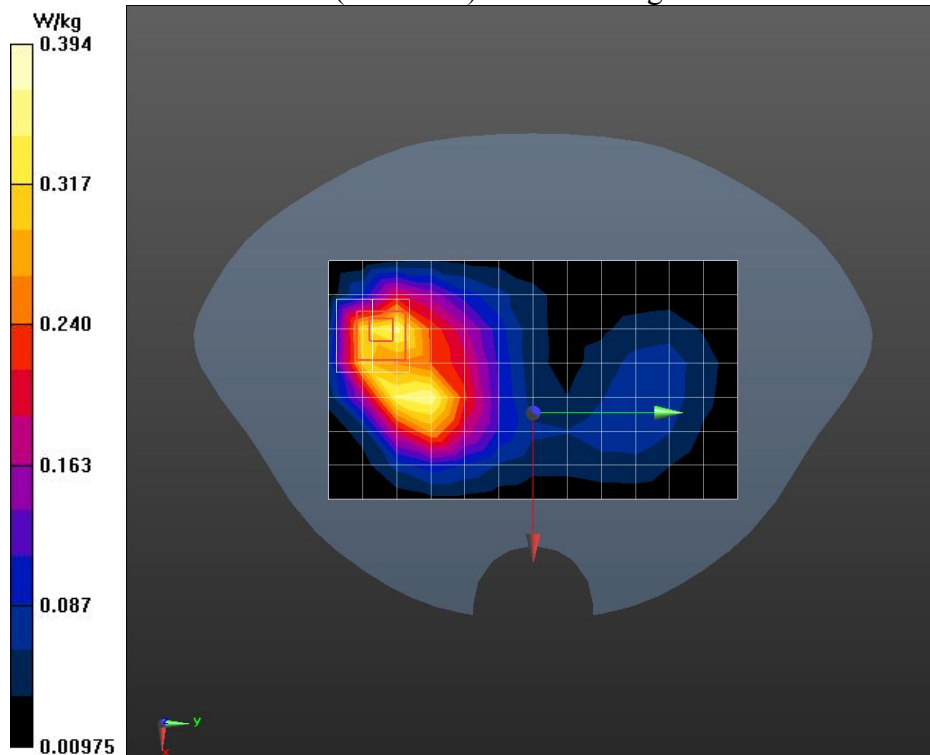


Fig B.26

WCDMA Band5 Cheek Left

Date/Time: 2022/5/31

Electronics: DAE4 Sn797

Medium: Head 835MHz

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.887$ S/m; $\epsilon_r = 41.861$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17, 10.17)

Area Scan (8x14x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.787 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.11 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.486 W/kg

Maximum value of SAR (measured) = 0.764 W/kg

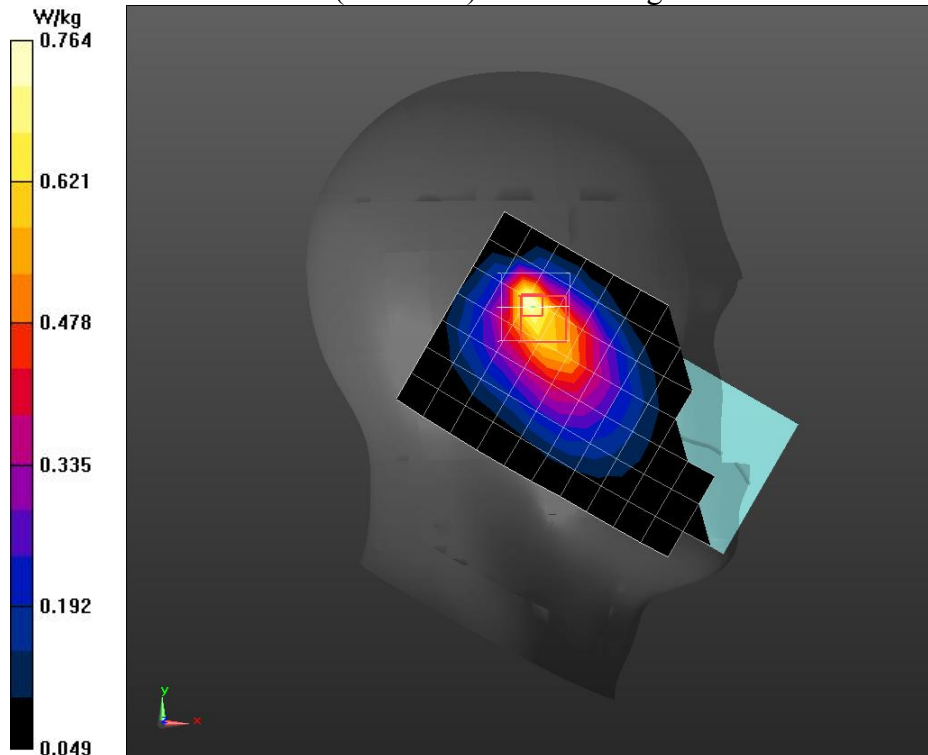


Fig B.27

WCDMA Band5 Body Right 10mm Hotspot

Date/Time: 2022/5/31

Electronics: DAE4 Sn797

Medium: Head 835MHz

Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.908 \text{ S/m}$; $\epsilon_r = 41.99$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

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

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17, 10.17)

Area Scan (8x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.679 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.24 V/m ; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.686 W/kg ; SAR(10 g) = 0.538 W/kg

Maximum value of SAR (measured) = 0.724 W/kg

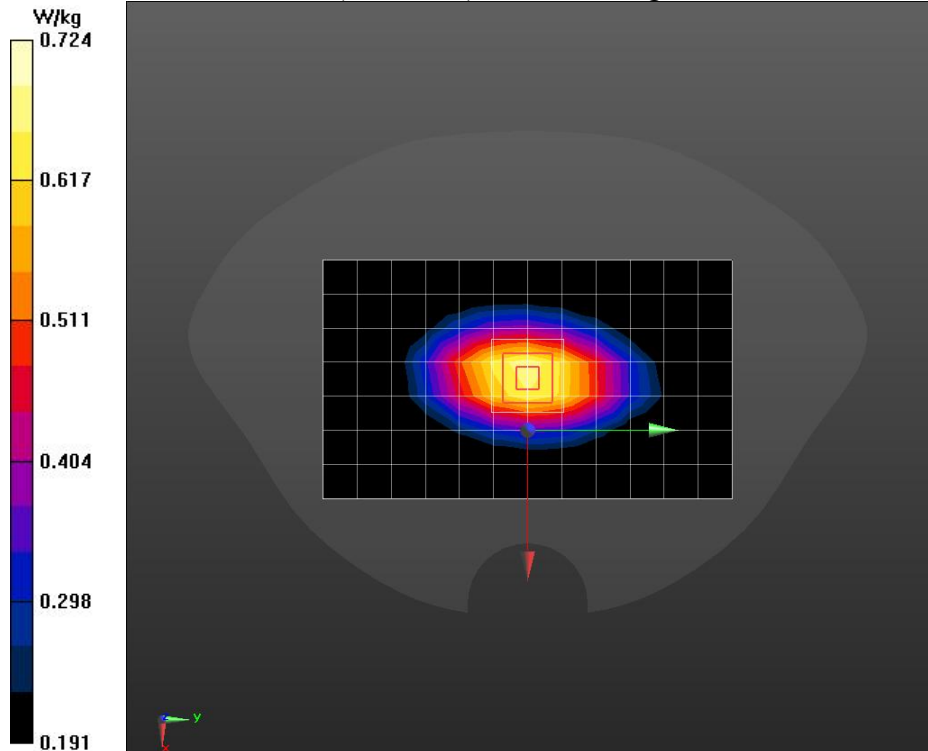


Fig B.28

LTE Band2 Cheek Left

Date/Time: 2022/5/23

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.426 \text{ S/m}$; $\epsilon_r = 39.218$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 2 (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x14x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.266 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.784 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.241 W/kg ; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.259 W/kg

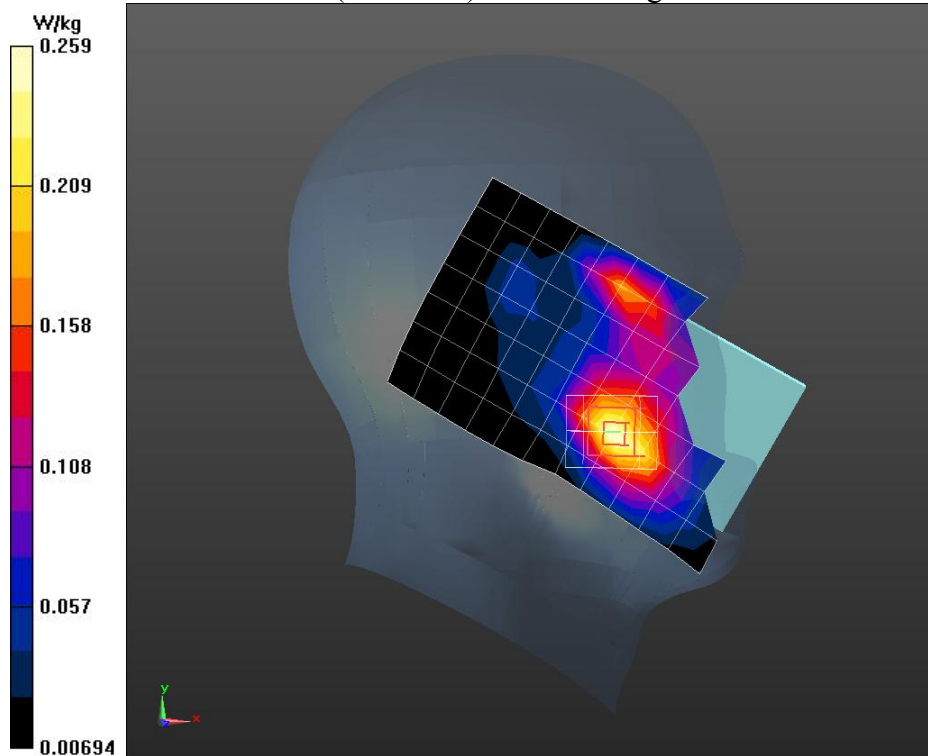


Fig B.29

LTE Band2 Body Rear 10mm Hotspot

Date/Time: 2022/5/23

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.426 \text{ S/m}$; $\epsilon_r = 39.218$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 2 (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.571 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.23 V/m ; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.562 W/kg ; SAR(10 g) = 0.291 W/kg

Maximum value of SAR (measured) = 0.615 W/kg

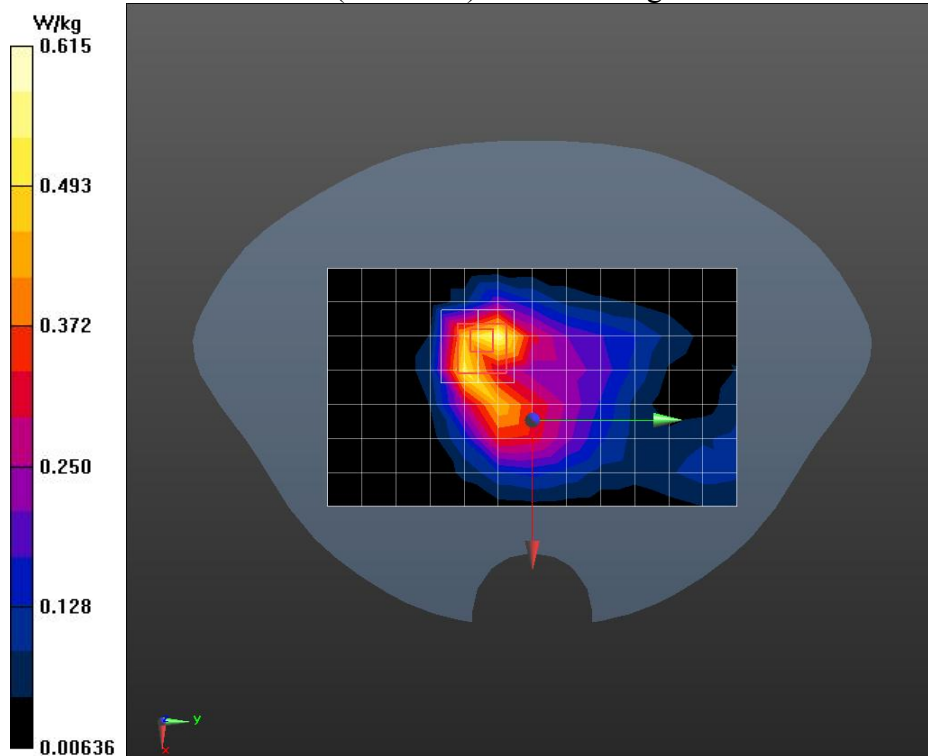


Fig B.30

LTE Band2 Body Rear 15mm

Date/Time: 2022/5/23

Electronics: DAE4 Sn797

Medium: Head 1900MHz

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.382 \text{ S/m}$; $\epsilon_r = 40.357$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 2 (0); Frequency: 1860 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (8x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.231 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.996 V/m ; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.392 W/kg

SAR(1 g) = 0.218 W/kg ; SAR(10 g) = 0.125 W/kg

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

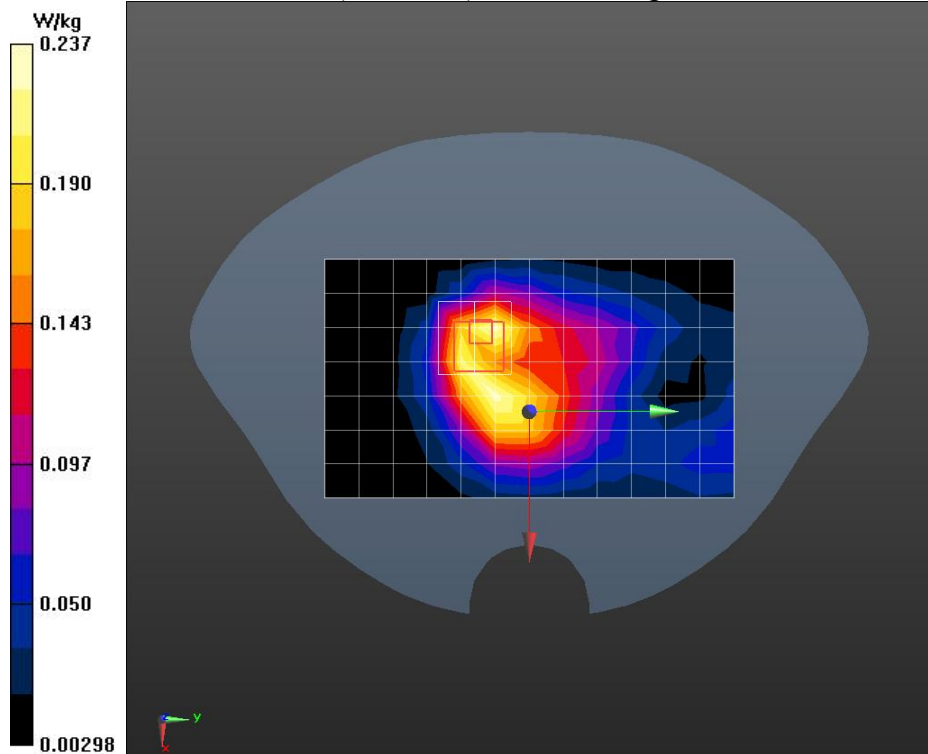


Fig B.31

LTE Band5 Cheek Left

Date/Time: 2022/5/31

Electronics: DAE4 Sn797

Medium: Head 835MHz

Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 41.982$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 5 (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17, 10.17)

Area Scan (8x14x1):Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.602 W/kg

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

Reference Value = 18.56 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.976 W/kg

SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.418 W/kg

Maximum value of SAR (measured) = 0.595 W/kg

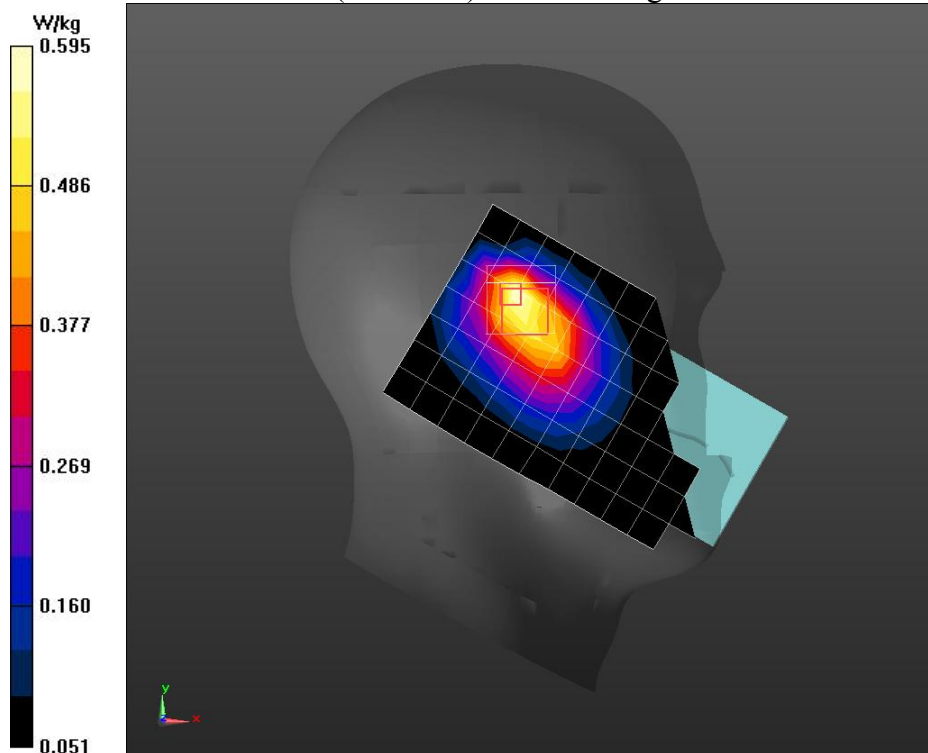


Fig B.32

LTE Band5 Body Right 10mm Hotspot

Date/Time: 2022/5/31

Electronics: DAE4 Sn797

Medium: Head 835MHz

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 42.072$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 5 (0); Frequency: 844 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17, 10.17)

Area Scan (8x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.612 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.50 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.706 W/kg

SAR(1 g) = 0.584 W/kg ; SAR(10 g) = 0.457 W/kg

Maximum value of SAR (measured) = 0.613 W/kg

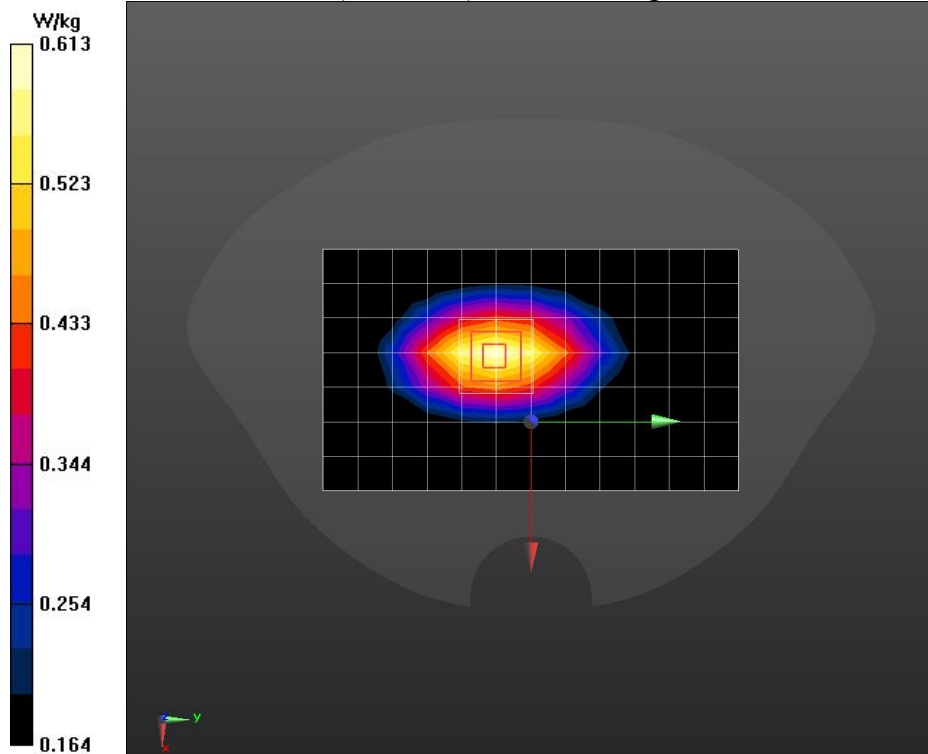


Fig B.33

LTE Band12 Cheek Left

Date/Time: 2022/5/30

Electronics: DAE4 Sn797

Medium: Head 750MHz

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 43.221$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 12 (0); Frequency: 704 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.59, 10.59, 10.59)

Area Scan (8x14x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.472 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.36 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.728 W/kg

SAR(1 g) = 0.442 W/kg ; SAR(10 g) = 0.338 W/kg

Maximum value of SAR (measured) = 0.470 W/kg

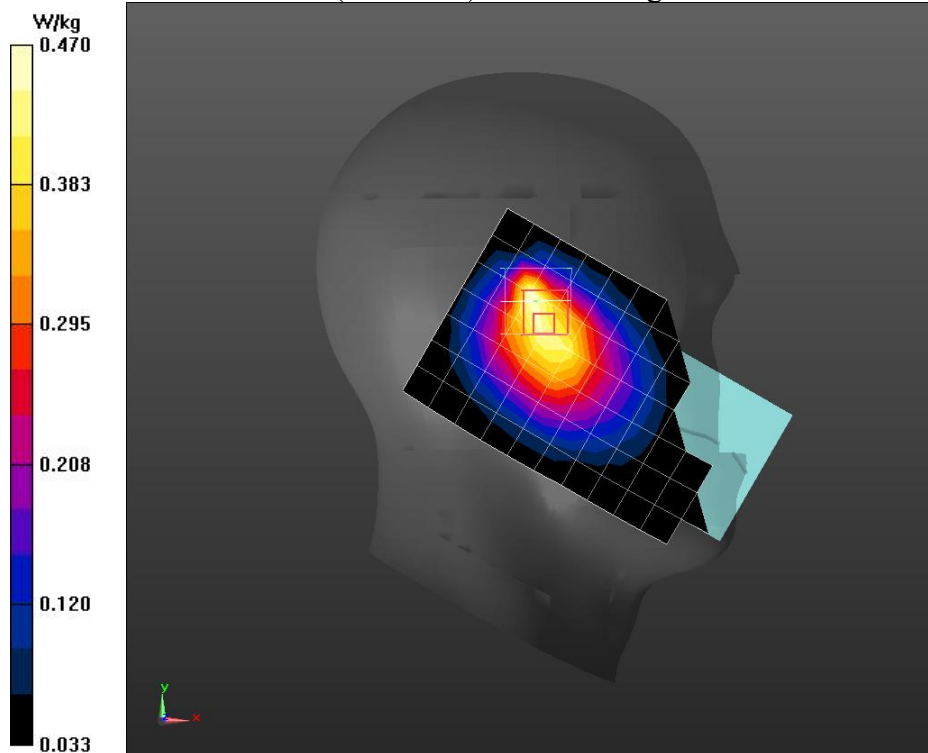


Fig B.34

LTE Band12 Body Rear 10mm Hotspot

Date/Time: 2022/5/30

Electronics: DAE4 Sn797

Medium: Head 750MHz

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 43.221$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 12 (0); Frequency: 704 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.59, 10.59, 10.59)

Area Scan (9x14x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.591 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.37 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.625 W/kg

SAR(1 g) = 0.584 W/kg ; SAR(10 g) = 0.513 W/kg

Maximum value of SAR (measured) = 0.599 W/kg

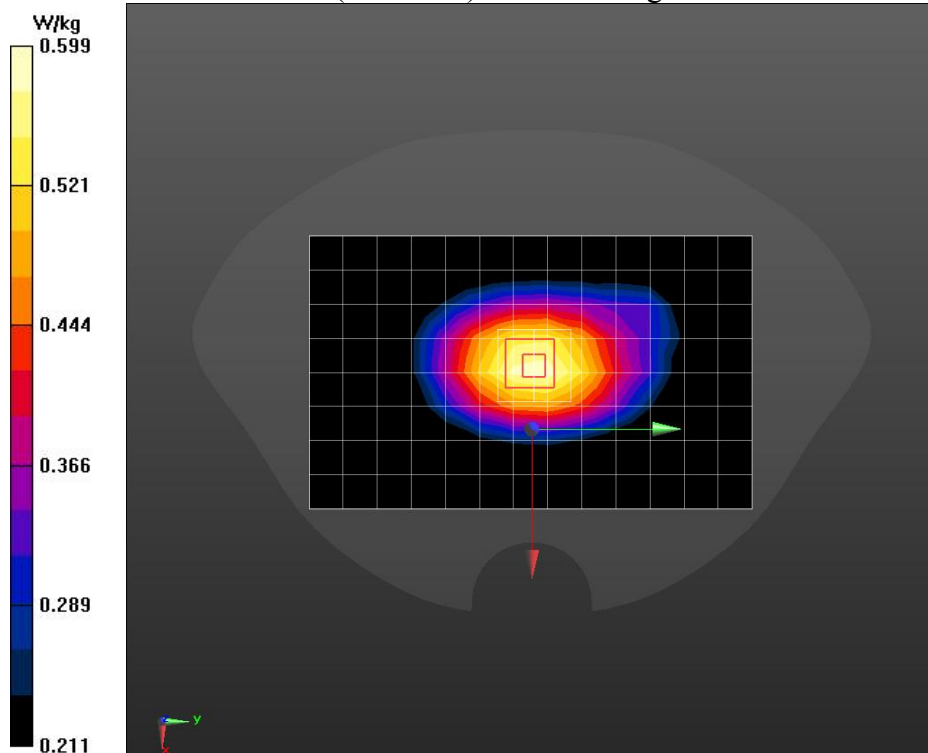


Fig B.35

LTE Band66 Cheek Left

Date/Time: 2022/5/26

Electronics: DAE4 Sn797

Medium: Head 1750MHz

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.269$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: LTE Band 2 (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.62, 8.62, 8.62)

Area Scan (8x14x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.217 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.094 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.350 W/kg

SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.126 W/kg

Maximum value of SAR (measured) = 0.223 W/kg

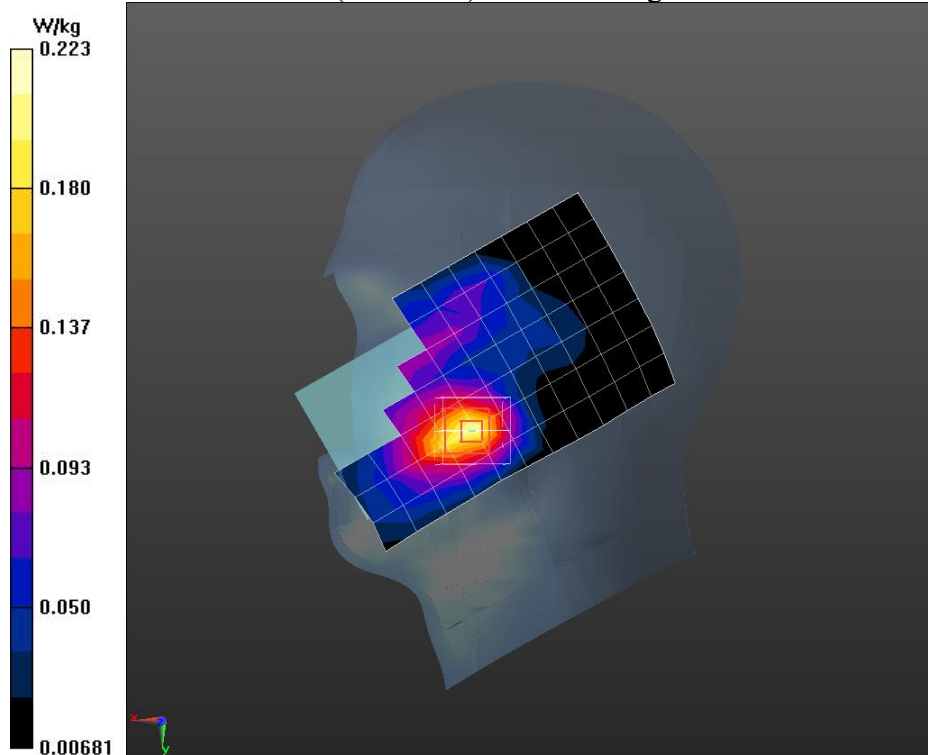


Fig B.36

LTE Band66 Body Rear 10mm Hotspot

Date/Time: 2022/5/26

Electronics: DAE4 Sn797

Medium: Head 1750MHz

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.269$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: LTE Band 66 (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.62, 8.62, 8.62)

Area Scan (8x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.338 W/kg

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.753 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.586 W/kg

SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 0.411 W/kg

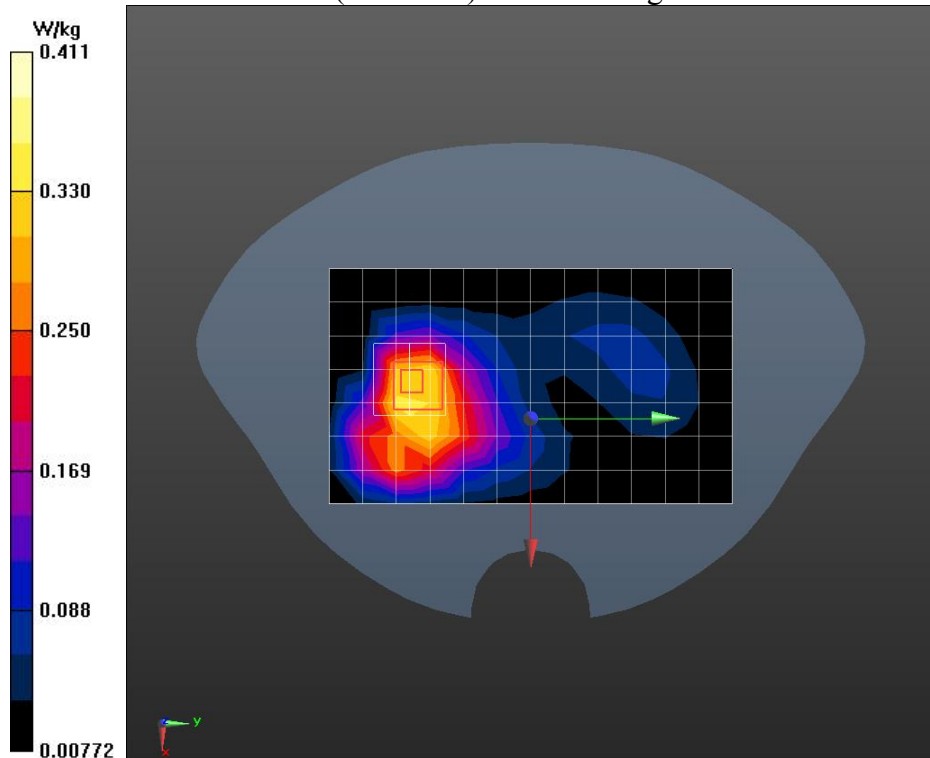


Fig B.37

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336

Tel: 0086-23-88069965

FAX: 0086-23-88608777

LTE Band66 Body Rear 15mm

Date/Time: 2022/5/26

Electronics: DAE4 Sn797

Medium: Head 1750MHz

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.269$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: LTE Band 66 (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.62, 8.62, 8.62)

Area Scan (8x13x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

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

Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.25 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.352 W/kg; SAR(10 g) = 0.225 W/kg

Maximum value of SAR (measured) = 0.381 W/kg

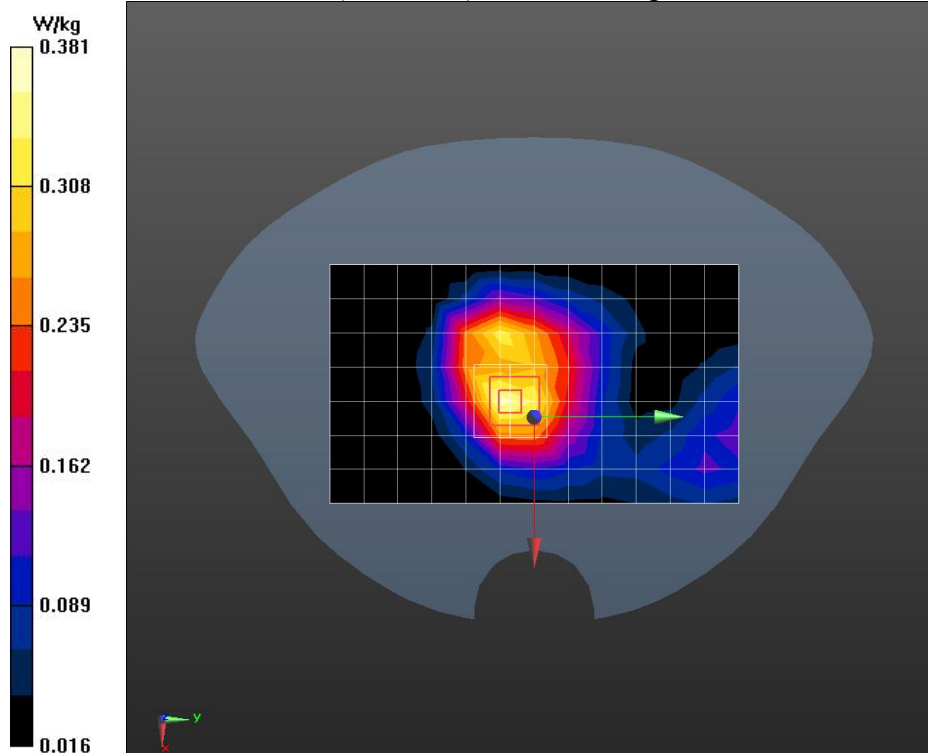


Fig B.38

Chongqing Academy of Information and Communication Technology

Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336

Tel: 0086-23-88069965

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Wifi 2.4G Cheek Right

Date/Time: 2022/6/2

Electronics: DAE4 Sn797

Medium: Head 2450MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.847$ S/m; $\epsilon_r = 38.943$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: Wi-Fi 2.4G (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(7.9, 7.9, 7.9)

Area Scan (8x14x1):Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.378 W/kg

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

Reference Value = 8.269 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.482 W/kg

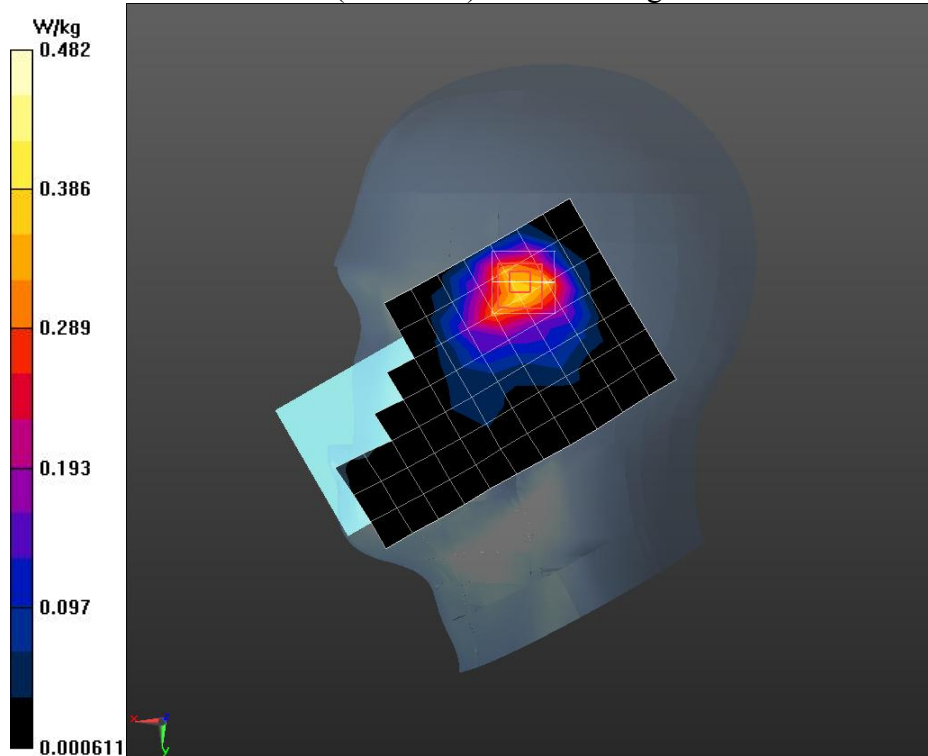


Fig B.39

Wifi 2.4G Body Rear 10mm

Date/Time: 2022/6/2

Electronics: DAE4 Sn797

Medium: Head 2450MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.847$ S/m; $\epsilon_r = 38.943$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: Wi-Fi 2.4G (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(7.9, 7.9, 7.9)

Area Scan (9x14x1):

Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.177 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.627 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.208 W/kg

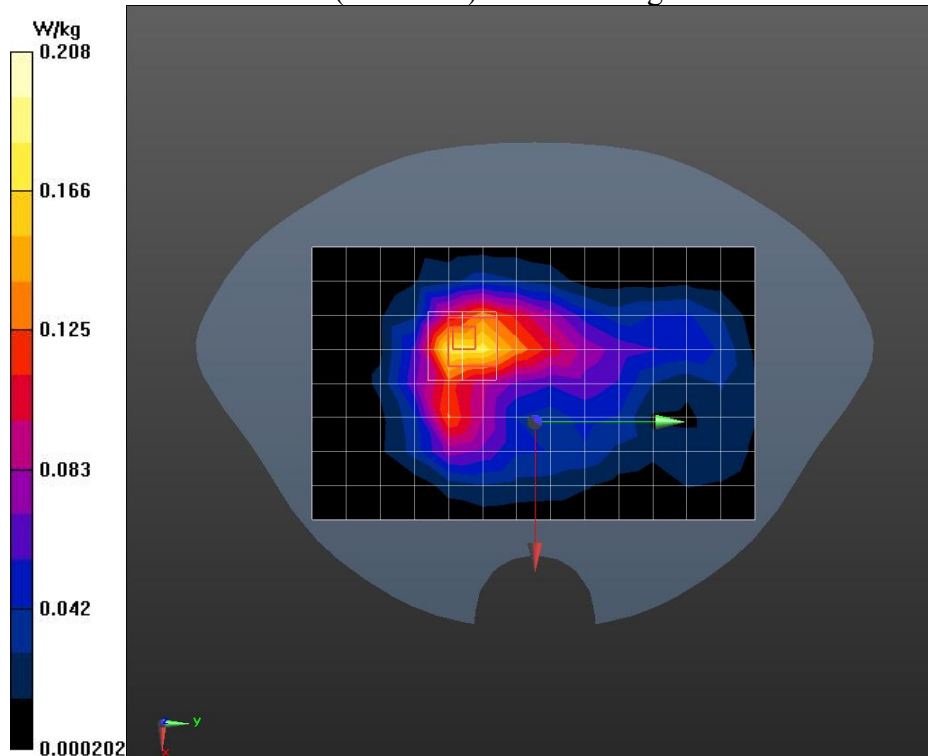


Fig B.40

Wifi 2.4G Body Rear 15mm

Date/Time: 2022/6/2

Electronics: DAE4 Sn797

Medium: Head 2450MHz

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.847$ S/m; $\epsilon_r = 38.943$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: Wi-Fi 2.4G (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(7.9, 7.9, 7.9)

Area Scan (9x14x1):Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0927 W/kg

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

Reference Value = 4.497 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.226 W/kg

SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.046 W/kg

Maximum value of SAR (measured) = 0.0989 W/kg

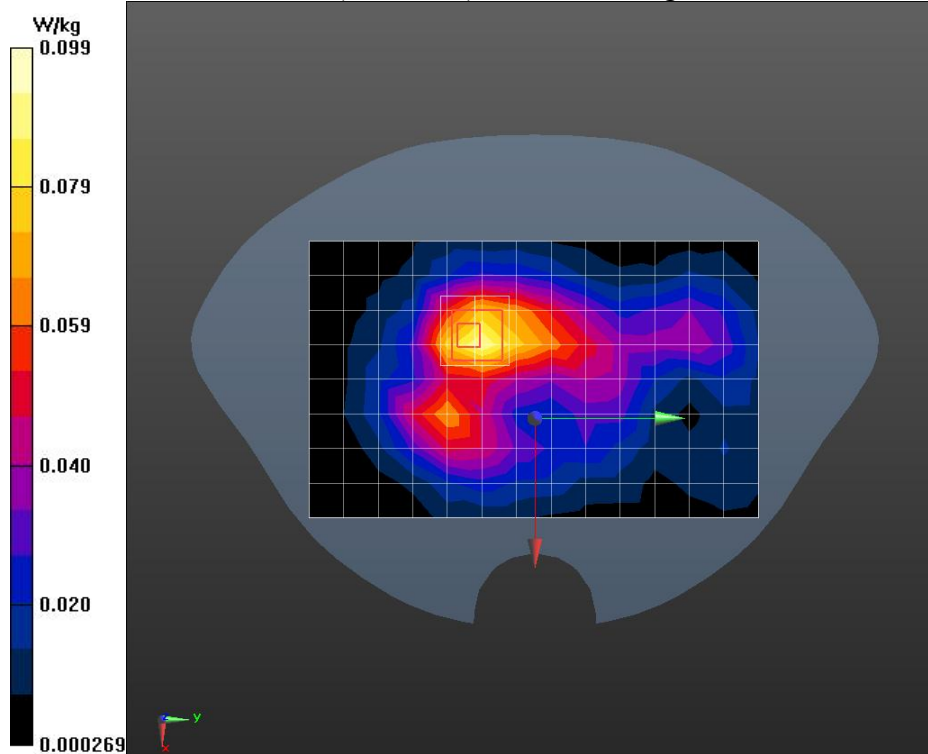


Fig B.41

BT 2.4G Cheek Right

Date/Time: 2022/6/2

Electronics: DAE4 Sn797

Medium: Head 2450MHz

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.894 \text{ S/m}$; $\epsilon_r = 38.776$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: Bluetooth 2.4G (0); Frequency: 2480 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(7.9, 7.9, 7.9)

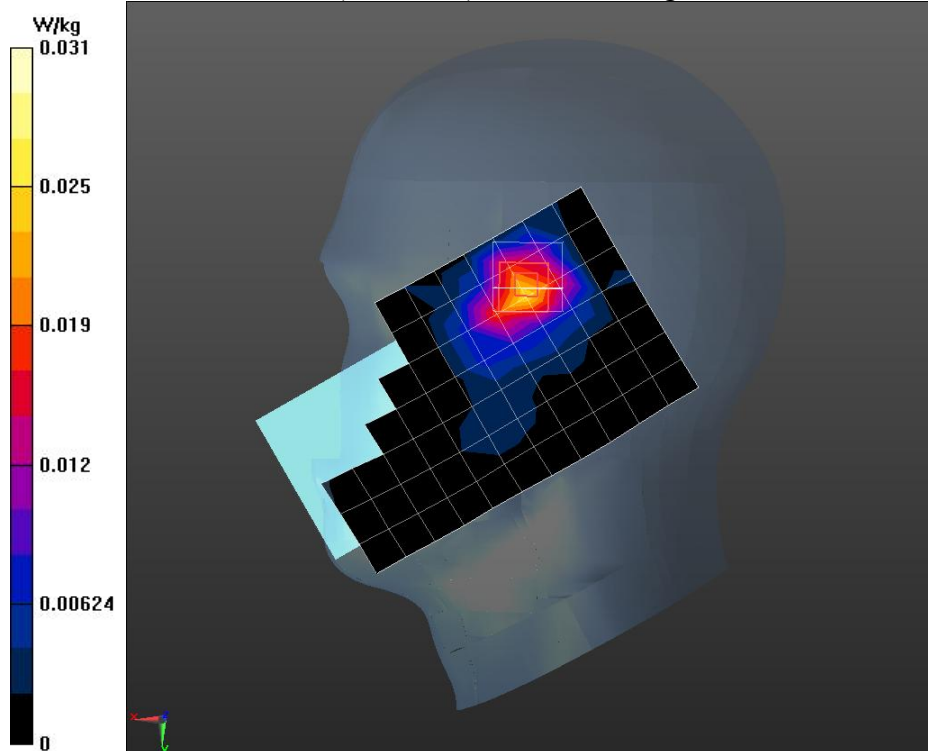
Area Scan (8x14x1):Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$ Maximum value of SAR (measured) = 0.0253 W/kg **Zoom Scan (7x7x7)/Cube 0:**Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 2.040 V/m ; Power Drift = -0.13 dB Peak SAR (extrapolated) = 0.0730 W/kg **SAR(1 g) = 0.029 W/kg ; SAR(10 g) = 0.013 W/kg** Maximum value of SAR (measured) = 0.0312 W/kg 

Fig B.42

BT 2.4G Body Rear 10mm

Date/Time: 2022/6/2

Electronics: DAE4 Sn797

Medium: Head 2450MHz

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.894 \text{ S/m}$; $\epsilon_r = 38.776$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C Communication System: Bluetooth 2.4G (0); Frequency: 2480 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(7.9, 7.9, 7.9)

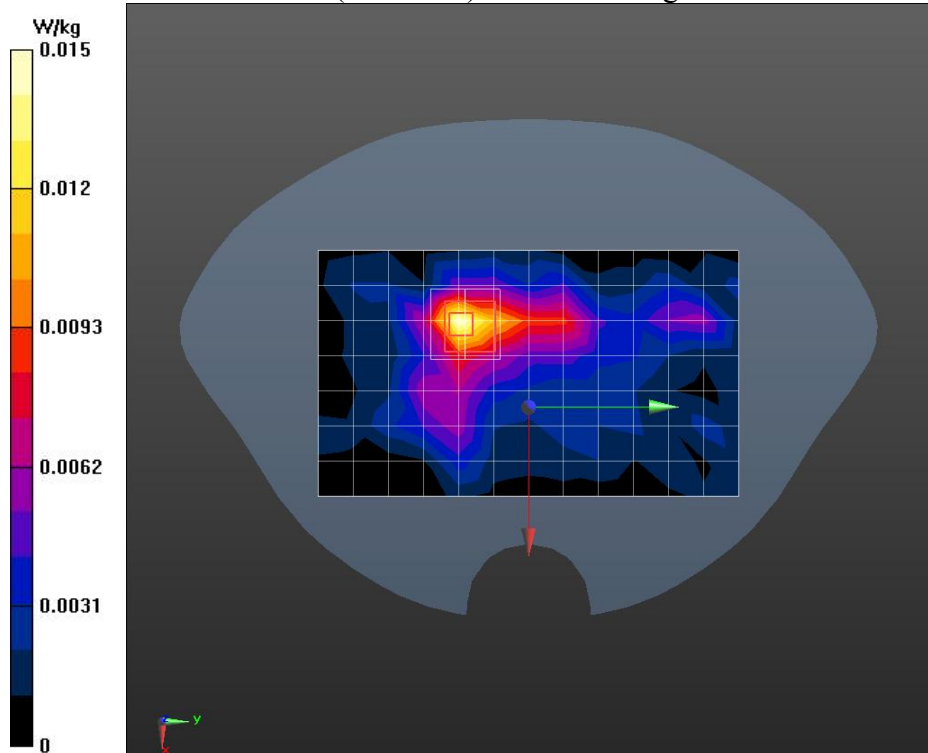
Area Scan (8x13x1):Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$ Maximum value of SAR (measured) = 0.0156 W/kg **Zoom Scan (7x7x7)/Cube 0:**Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 1.574 V/m ; Power Drift = -0.16 dB Peak SAR (extrapolated) = 0.0290 W/kg **SAR(1 g) = 0.014 W/kg ; SAR(10 g) = 0.00644 W/kg** Maximum value of SAR (measured) = 0.0155 W/kg 

Fig B.43

BT 2.4G Body Rear 15mm

Date/Time: 2022/6/2

Electronics: DAE4 Sn797

Medium: Head 2450MHz

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.894 \text{ S/m}$; $\epsilon_r = 38.776$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C

Liquid Temperature: 22.1°C

Communication System: Bluetooth 2.4G (0); Frequency: 2480 MHz ; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(7.9, 7.9, 7.9)

Area Scan (8x13x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.00905 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.055 V/m ; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0170 W/kg

SAR(1 g) = 0.006 W/kg ; SAR(10 g) = 0.00317 W/kg

Maximum value of SAR (measured) = 0.00749 W/kg

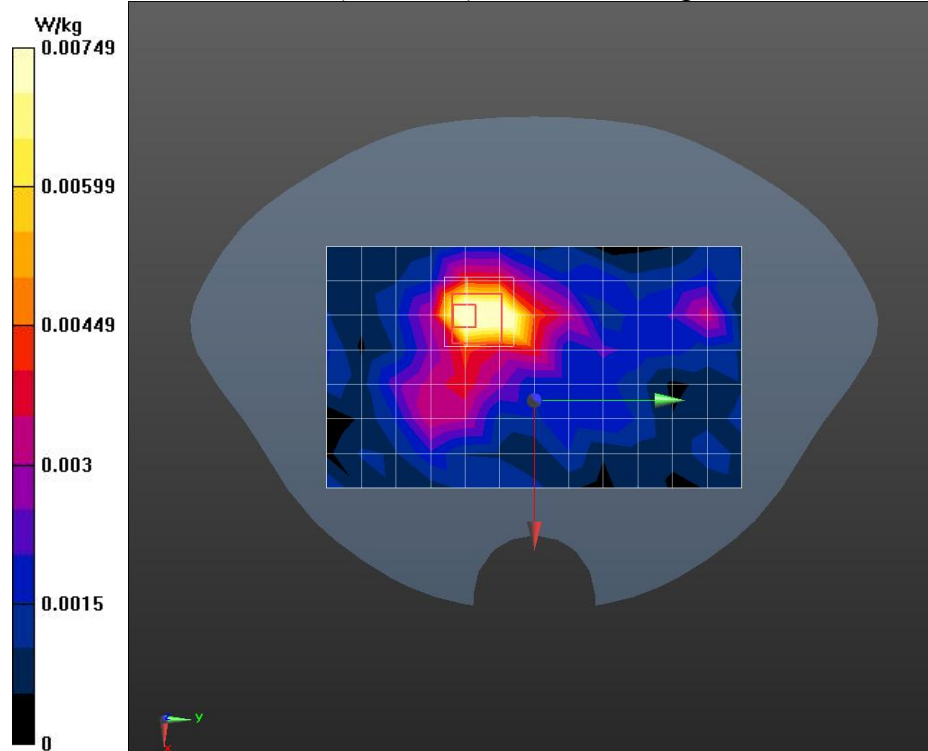


Fig B.44

F.6 ANNEX SYSTEM VALIDATION RESULTS

System Verification 750MHz

Date/Time: 2022/6/3 11:10

Electronics: DAE4 Sn797

Medium: Dipole 750MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 40.717$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401 ConvF(10.59 10.59, 10.59)

Area Scan (7x21x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 2.03 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 47.64 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 1.92 W/kg; SAR(10 g) = 1.44 W/kg

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

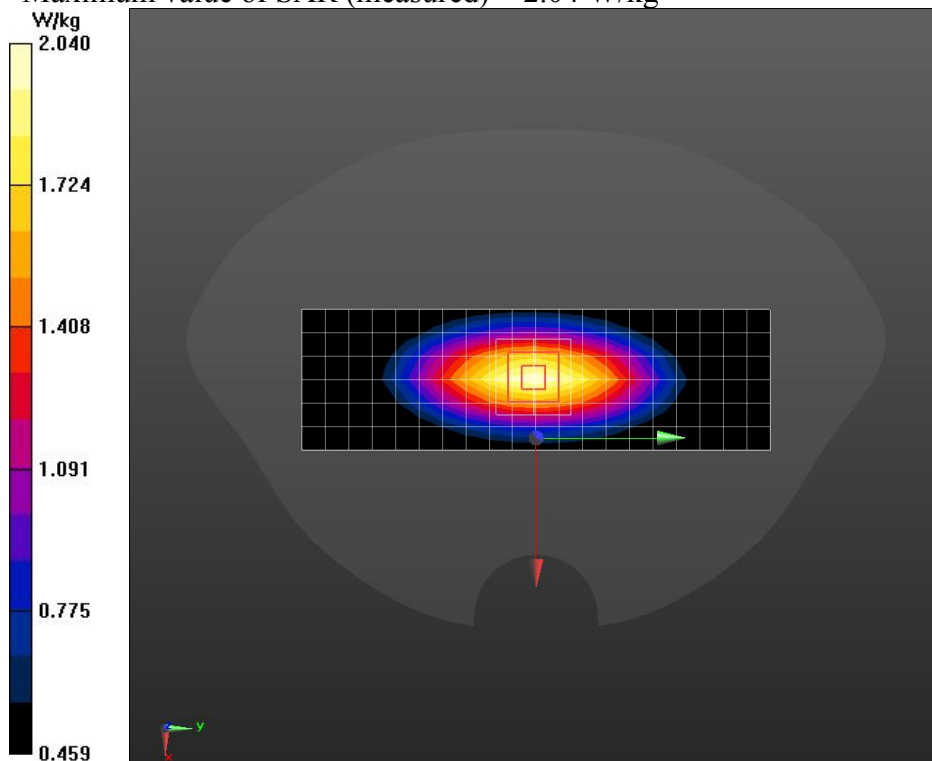


Fig B.45

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System Verification 835MHz

Date/Time: 2022/6/3

Electronics: DAE4 Sn797

Medium: Dipole 835MHZ

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.904 \text{ S/m}$; $\epsilon_r = 41.963$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(10.17, 10.17,10.17)

Area Scan (5x18x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 2.51 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.58 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 2.36 W/kg ; SAR(10 g) = 1.73 W/kg

Maximum value of SAR (measured) = 2.51 W/kg

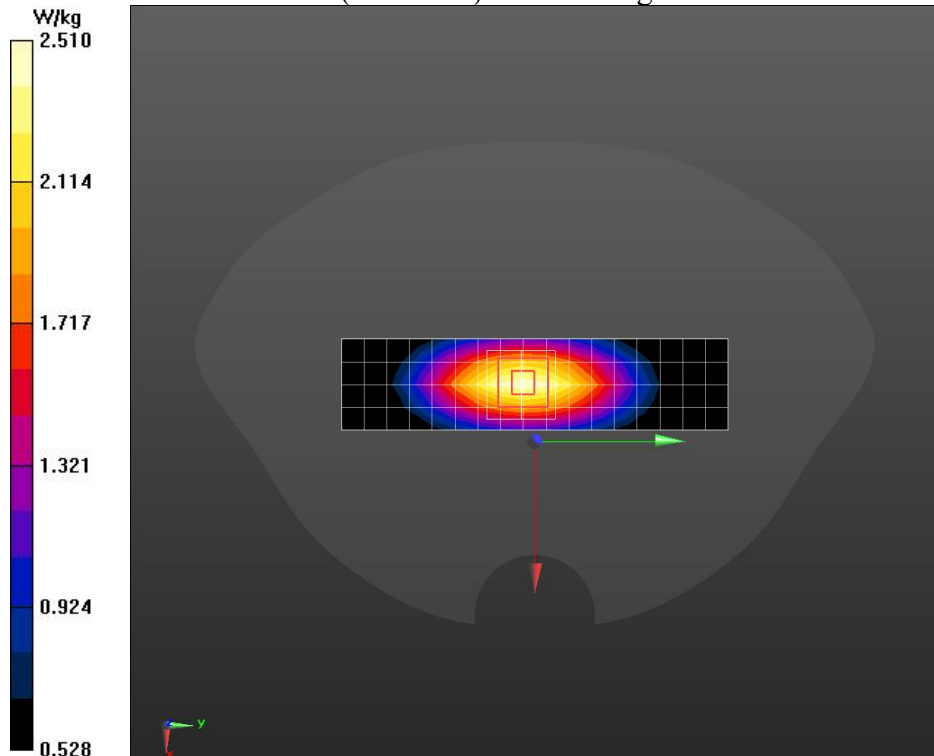


Fig B.46

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System Verification 1900MHz

Date/Time: 2022/6/4

Electronics: DAE4 Sn797

Medium: Dipole 1900MHZ

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.414 \text{ S/m}$; $\epsilon_r = 40.228$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System: CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(8.35, 8.35, 8.35)

Area Scan (5x9x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 9.45 W/kg

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 81.78 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.46 W/kg ; SAR(10 g) = 4.93 W/kg

Maximum value of SAR (measured) = 10.6 W/kg

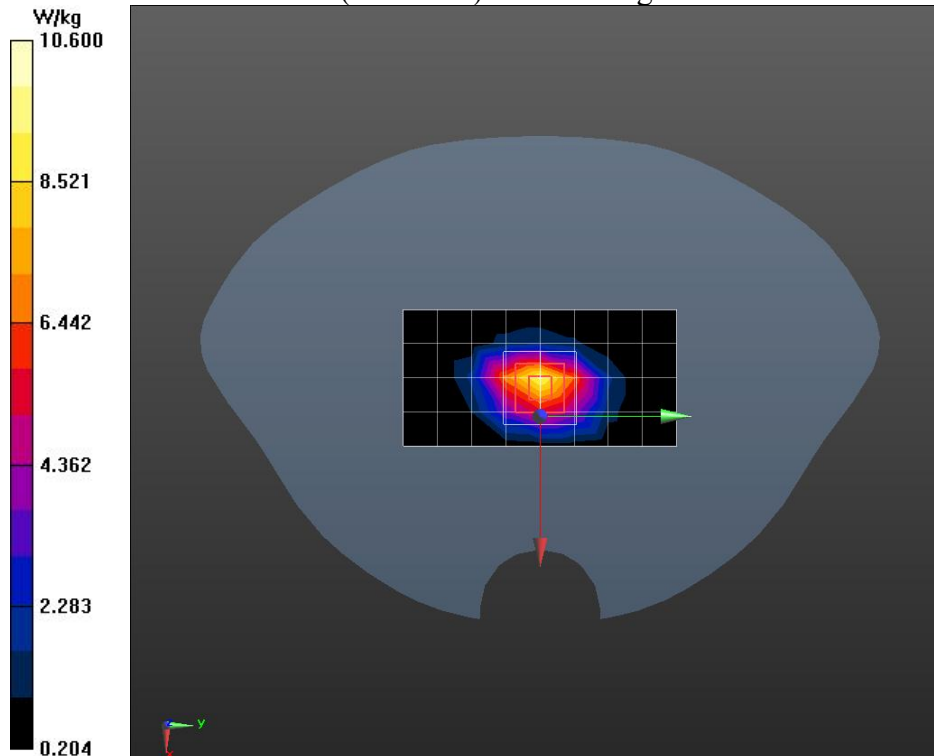


Fig B.47

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FAX: 0086-23-88608777

System Verification 2600MHz

Date/Time: 2022/6/5

Electronics: DAE4 Sn797

Medium: Dipole 2600MHZ

Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.886 \text{ S/m}$; $\epsilon_r = 38.061$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.6°C Liquid Temperature: 22.1°C

Communication System CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN7401ConvF(7.64, 7.64, 7.64)

Area Scan (5x9x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 82.40 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 41.7 W/kg

SAR(1 g) = 15.00 W/kg ; SAR(10 g) = 6.06 W/kg

Maximum value of SAR (measured) = 16.4 W/kg

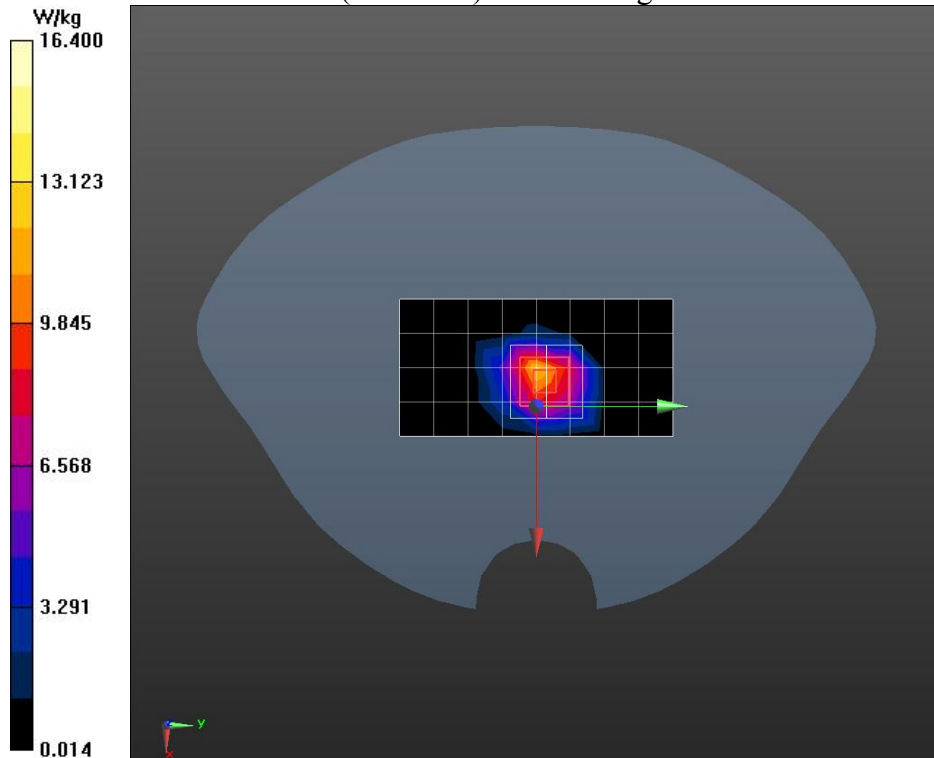


Fig B.48

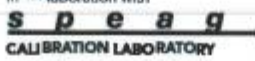
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E.7 ANNEX CALIBRATION REPORT FOR 2600MHz Dipole


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校准
CALIBRATION
CNAS L0570

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 E-mail: ctth@chinattl.com http://www.chinattl.cn

Client **CATR(Chongqing)** Certificate No: **Z20-60406**

CALIBRATION CERTIFICATE

Object **D2600V2 - SN: 1045**

Calibration Procedure(s) **FF-Z11-003-01**
 Calibration Procedures for dipole validation kits

Calibration date: **October 13, 2020**

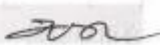
This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	12-May-20 (CTTL, No.J20X02965)	May-21
Power sensor NRP6A	101369	12-May-20 (CTTL, No.J20X02965)	May-21
Reference Probe EX3DV4	SN 3617	30-Jan-20(SPEAG,No.EX3-3617_Jan20)	Jan-21
DAE4	SN 771	10-Feb-20(CTTL-SPEAG,No.Z20-60017)	Feb-21

Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	25-Feb-20 (CTTL, No.J20X00516)	Feb-21
Network Analyzer E5071C	MY46110673	10-Feb-20 (CTTL, No.J20X00515)	Feb-21

	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: October 22, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z20-60406 Page 1 of 8

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM _{x,y,z}
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.



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Measurement Conditions

DASY system configuration as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	39.7 $\pm$ 6 %	1.95 mho/m $\pm$ 6 %
Head TSL temperature change during test	<1.0 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.9 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	56.0 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.7 W/kg $\pm$ 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	52.1 $\pm$ 6 %	2.17 mho/m $\pm$ 6 %
Body TSL temperature change during test	<1.0 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.6 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	54.2 W/kg $\pm$ 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	6.04 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.1 W/kg $\pm$ 18.7 % (k=2)

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Appendix(Additional assessments outside the scope of CNAS L0570)**Antenna Parameters with Head TSL**

Impedance, transformed to feed point	49.6Ω- 6.17jΩ
Return Loss	- 24.2dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.9Ω- 5.61jΩ
Return Loss	- 23.6dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.016 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 10.13.2020

Test Laboratory: CCTL, Beijing, China

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1045

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.948$ S/m; $\epsilon_r = 39.72$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.52, 7.52, 7.52) @ 2600 MHz; Calibrated: 2020-01-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn771; Calibrated: 2020-02-10
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Reference Value = 105.3 V/m; Power Drift = -0.07 dB

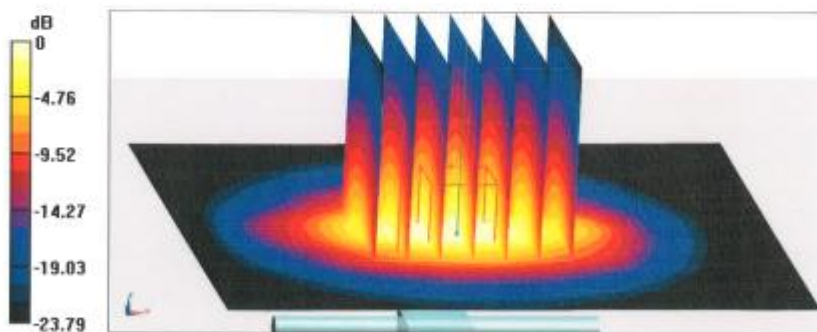
Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.14 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 46.1%

Maximum value of SAR (measured) = 24.2 W/kg



0 dB = 24.2 W/kg = 13.84 dBW/kg

Certificate No: Z20-60406

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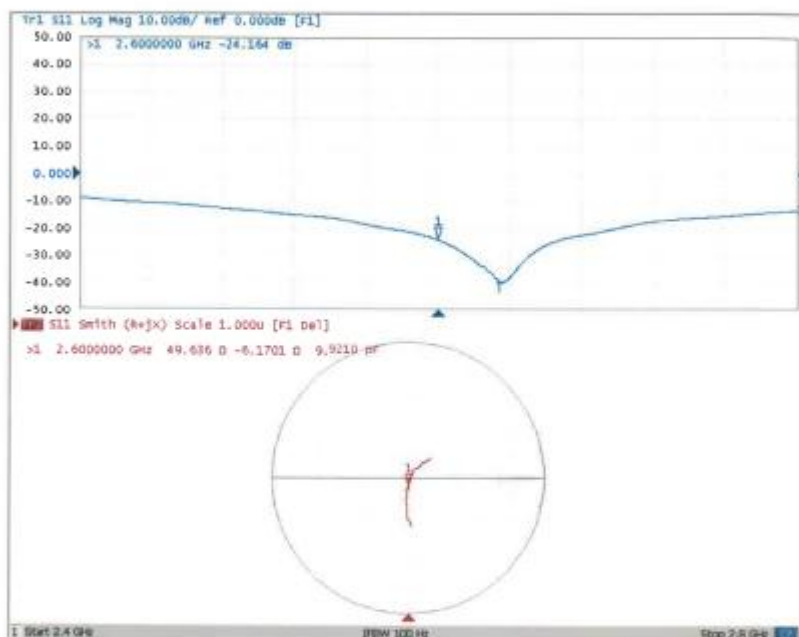
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 10.13.2020

Test Laboratory: CTTTL, Beijing, China

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1045

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.168$ S/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3617; ConvF(7.45, 7.45, 7.45) @ 2600 MHz; Calibrated: 2020-01-30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn771; Calibrated: 2020-02-10
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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

Reference Value = 98.54 V/m; Power Drift = 0.00 dB

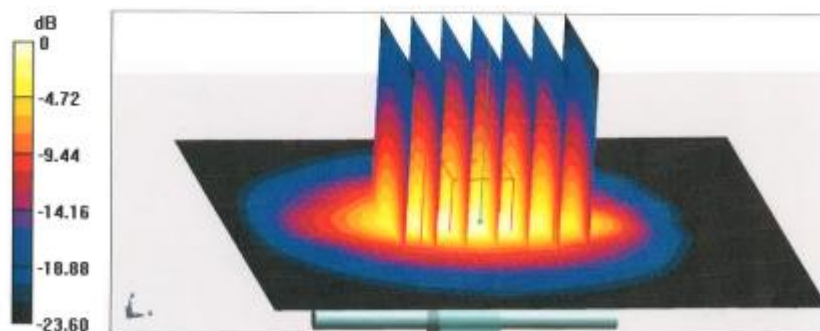
Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.04 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.3%

Maximum value of SAR (measured) = 23.5 W/kg



0 dB = 23.5 W/kg = 13.71 dBW/kg

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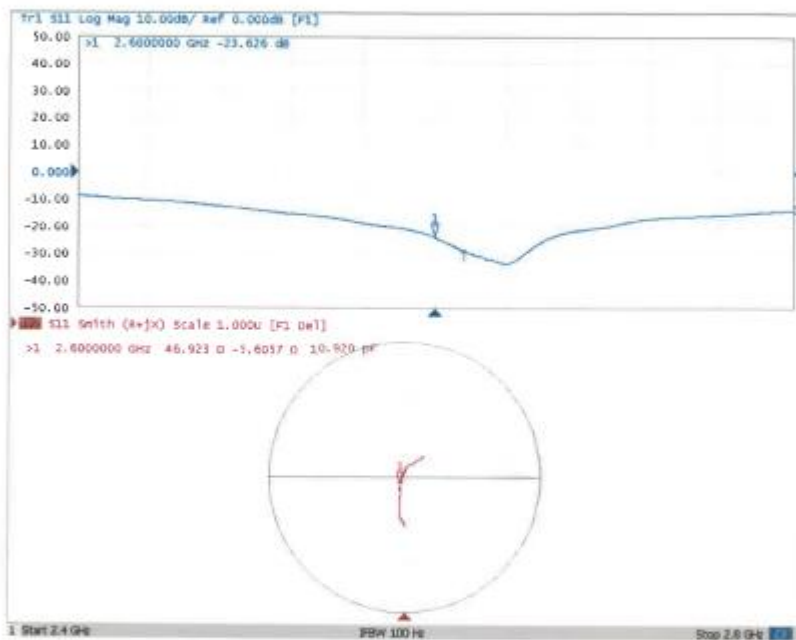
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Impedance Measurement Plot for Body TSL



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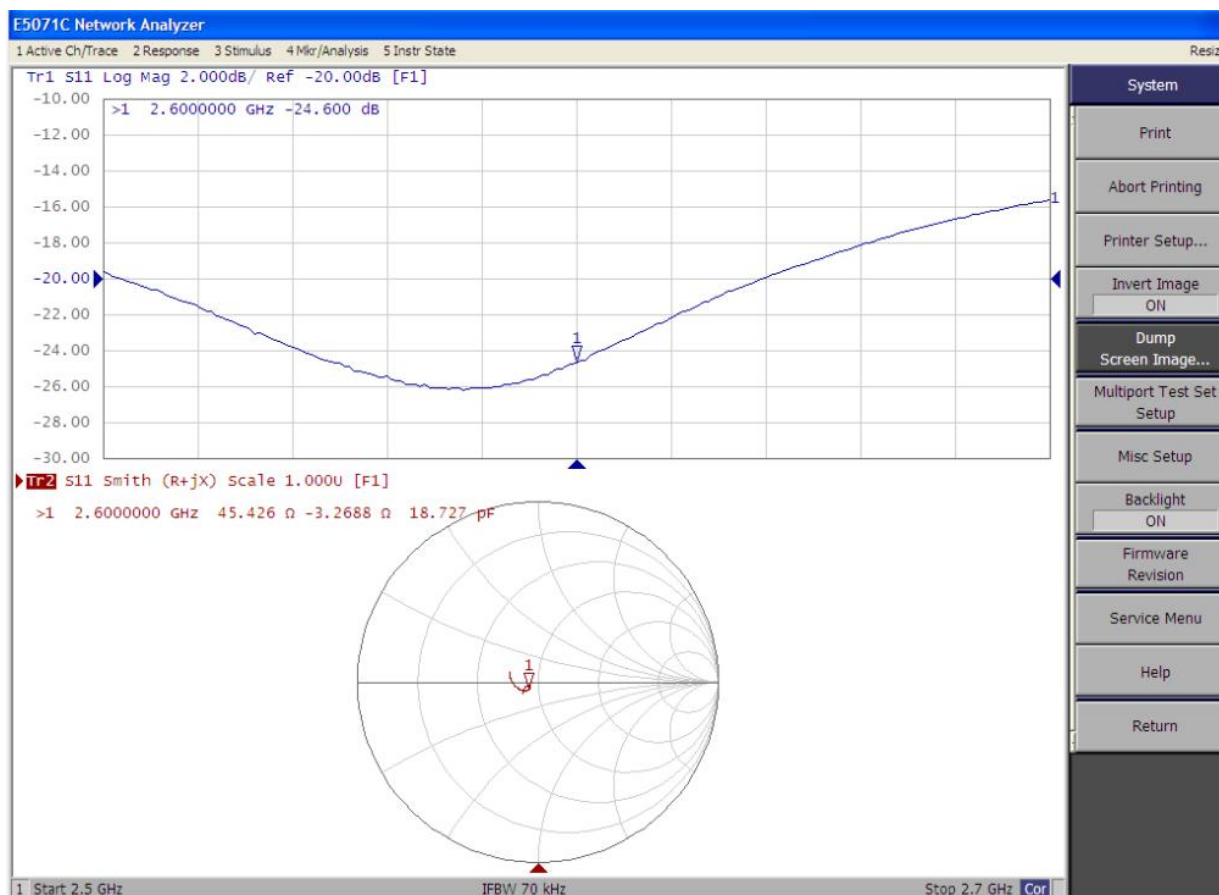
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E.8 ANNEX Extended Calibration 2600MHz Dipole

Justification of Extended Calibration SAR Dipole D2600V2– serial no.1045

Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)
2020-10-13	-24.16	\	49.6	\	-6.2	\
2021-10-08	-24.60	1.82	45.4	4.2	-3.3	2.9



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ANNEX F. Accreditation Certificate



Accredited Laboratory

A2LA has accredited

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Chongqing, People's Republic of China

for technical competence in the field of
Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 9th day of November 2020.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4897.01
Valid to June 30, 2022
Revised May 26, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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