



CAICT

No.I22Z61533-SEM03



SAR TEST REPORT

No. I22Z61533-SEM03

For

Wingtech Mobile Communications Co.,Ltd.

5G Mobile Phone

Model Name: Celero5G+

with

Hardware Version: V1.0

Software Version: Celero5GPlus_0.01.03

FCC ID: 2APXW-CELERO5GPLUS

Issued Date: 2022-11-04

Note:

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
I22Z61533-SEM03	Rev.0	2022-10-28	Initial creation of test report
I22Z61533-SEM03	Rev.1	2022-11-04	Page 6, corrected the note Equipment type of B48 to be CBE. Updated the tuneup on page 84 of the report, updated the tuneup for OD. Page 364, the typo has been corrected, 21mm has been changed to 23mm.

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1 Test Laboratory

1.1 Testing Location

Company Name:	CTTL(Shouxiang)
Address:	No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

1.2 Testing Environment

Temperature:	18°C~25°C,
Relative humidity:	30%~ 70%
Ground system resistance:	< 0.5 Ω
Ambient noise & Reflection:	< 0.012 W/kg

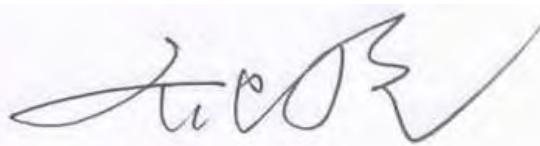
1.3 Project Data

Project Leader:	Qi Dianyuan
Test Engineer:	Yao Juming
Testing Start Date:	September 27, 2022
Testing End Date:	October 14, 2022

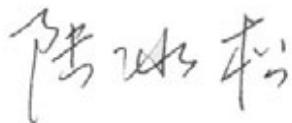
1.4 Signature



Yao Juming
(Prepared this test report)



Qi Dianyuan
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Wingtech Group (Hong Kong) Limited. 5G Mobile Phone CELERO5G is as follows:

Table 2.1: Highest Reported SAR (1g)

Technology Band	Head	Body-Worn	Equipment Class
GSM850-ANT0	0.43	0.69	PCE
GSM1900-ANT1	0.42	0.80	
WCDMA1900-ANT1	0.77	0.86	
WCDMA1700-ANT1	0.46	0.80	
WCDMA 850-ANT0	0.46	0.98	
LTE Band2-ANT3	0.74	0.23	
LTE Band12-ANT0	0.31	0.32	
LTE Band14-ANT0	0.27	0.42	
LTE Band25-ANT1	0.56	0.48	
LTE Band26-ANT0	0.31	0.51	
LTE Band30-ANT0	0.02	0.81	
LTE Band30-ANT3	0.47	0.35	
LTE Band41-PC3 ANT3	0.36	0.78	
LTE Band41-PC2 ANT3	0.36	0.78	
LTE Band66-ANT1	0.25	0.54	
LTE Band66-ANT3	0.62	0.67	
LTE Band71-ANT0	0.26	0.24	
5G NR n2 ANT1	0.44	0.76	
5G NR n2 ANT3	0.77	0.75	
5G NR n25 ANT1	0.47	0.77	
5G NR n25 ANT3	0.68	0.73	
5G NR n26 ANT0	0.30	0.49	
5G NR n30 ANT3	0.83	0.72	
5G NR n30 ANT0	<0.01	0.85	
5G NR n41 ANT3	0.82	0.92	
5G NR n66 ANT1	0.26	0.86	
5G NR n66 ANT3	0.79	0.79	
5G NR n5	0.25	0.66	
5G NR n71 ANT0	0.19	0.38	
5G NR n70 ANT0	0.22	0.84	
5G NR n77L ANT4	0.63	0.94	
5G NR n77H ANT4	0.78	0.89	
LTE Band48-ANT4	0.28	0.51	CBE
WLAN 2.4GHz	0.13	0.76	DTS
WLAN 5GHz	0.20	0.85	NII
BT	0.05	0.02	DSS

The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and which provides a minimum separation distance of 15/10 mm between this device and the body of the user. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report. The highest reported SAR value is obtained at the case of (**Table 2.1**), and the values are: **0.98 W/kg(1g)**.

Remark:

This device supports both LTE B2/B4/B5 and LTE B25/B66/B26. Since the supported frequency span for LTE BB2/4/B5 falls completely within the support frequency span for LTE B25/B66/B26, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25/B66/B26.

Table 2.2: The sum of SAR values for Main antenna + WiFi2.4G

	Position	Main antenna	WiFi-2.4G	Sum
Highest SAR value for Head	Left head, Cheek (ENDC 25A_n77A)	0.95	0.13	1.08
Highest SAR value for Body	Right Edge 10mm (ENDC 30C_n77A)	0.80	0.76	1.56

Table 2.3: The sum of SAR values for Main antenna + WiFi5G +BT

	Position	Main antenna	WiFi-5G	BT	Sum
Highest SAR value for Head	Right head, Tilt (ENDC 66A-n25A)	1.03	0.1	0.02	1.15
Highest SAR value for Body	Rear 10mm (ENDC 30C_n77A)	1.18	0.4	0.01	1.59

Table 2.4: The SAR values for ENDC

ENDC	Left Cheek 1g (W/kg)	Left Tilt 1g (W/kg)	Right Cheek 1g (W/kg)	Right Tilt 1g (W/kg)	Front 10mm 1g (W/kg)	Rear 10mm 1g (W/kg)	Left Edge 10mm 1g (W/kg)	Right Edge 10mm 1g (W/kg)	Bottom Edge 10mm 1g (W/kg)	Top Edge 10mm 1g (W/kg)	Front 21mm 1g (W/kg)	Front 19mm 1g (W/kg)	Rear 20mm 1g (W/kg)	Rear 22mm 1g (W/kg)	Rear 23mm 1g (W/kg)	Left 17mm 1g (W/kg)	Bottom 12mm 1g (W/kg)	Top Edge 24mm 1g (W/kg)	Top Edge 21mm 1g (W/kg)
DC_86A_n71A	0.49	0.41	0.51	0.62	0.65	0.73	0.34	0.38	0.11	0.67	0.54	/	/	0.33	/	0.33	0.12	0.40	/
B66 ANT3	0.30	0.41	0.51	0.62	0.56	0.56	0.18	/	/	0.67	0.29	/	/	0.33	/	0.33	0.19	/	/
n71 ANT3	0.19	/	/	/	0.09	0.14	0.16	0.38	0.11	0.11	0.25	0.13	0.33	/	0.12	/	0.12	/	/
DC_2A_n71A	0.57	0.51	0.57	0.74	0.16	0.23	0.31	0.38	0.11	0.11	0.25	0.13	0.33	/	0.12	/	0.12	0.23	/
B2 ANT3	0.38	0.51	0.57	0.74	0.07	0.09	0.15	/	/	0.11	0.25	0.13	/	0.33	/	0.12	/	0.23	/
DC_2A_n66A	0.64	0.61	0.68	0.83	0.46	0.80	0.65	0.07	0.38	0.11	0.33	0.13	/	0.26	0.12	/	0.26	0.23	/
B2 ANT3	0.38	0.51	0.57	0.74	0.07	0.09	0.15	/	/	0.11	0.25	0.13	/	0.33	/	0.12	/	0.23	/
n66 ANT1	0.26	0.11	0.11	0.09	0.40	0.71	0.51	0.07	0.38	/	0.33	/	0.26	/	0.12	/	0.26	/	/
DC_12A_n66A	0.68	0.66	0.96	1.01	0.80	1.09	0.35	0.41	0.25	0.79	0.00	0.22	/	0.22	0.00	0.27	/	/	0.32
B12 ANT0	0.30	0.18	0.31	0.22	0.20	0.32	0.18	0.29	0.25	/	/	/	/	/	/	/	/	/	/
n66 ANT3	0.38	0.49	0.64	0.79	0.60	0.77	0.17	0.12	/	0.79	/	0.22	/	0.22	0.27	/	/	0.32	
DC_3C_n41A	0.65	0.39	0.86	0.63	0.53	0.86	0.48	0.09	0.19	0.56	/	0.78	/	0.14	0.64	0.16	0.48	0.00	
B2 ANT1	0.56	0.27	0.45	0.29	0.29	0.48	0.27	0.19	/	/	0.21	/	/	/	0.16	/	/	/	
n41 ANT3	0.09	0.12	0.41	0.33	0.24	0.24	0.38	0.22	0.09	/	0.56	/	0.57	/	0.68	0.64	0.48	/	
DC_12A_n25a	0.60	0.57	0.61	0.60	0.59	0.60	0.44	0.44	0.25	0.73	/	0.35	/	0.13	0.37	0.22	/	0.44	
B12 ANT0	0.39	0.18	0.31	0.22	0.20	0.32	0.18	0.29	0.25	/	/	/	/	/	/	/	/	/	
n25 ANT3	0.30	0.40	0.49	0.68	0.39	0.58	0.16	0.15	/	0.73	/	0.35	/	0.13	0.37	0.22	/	0.44	
DC_66A_n25A	0.77	0.61	0.80	0.83	0.96	1.17	0.54	0.63	0.33	0.64	0.82	0.29	/	0.48	0.23	0.19	0.43	0.40	
B66 ANT3	0.30	0.41	0.51	0.62	0.54	0.54	0.17	0.17	/	0.64	/	0.29	/	0.13	0.33	0.19	/	0.40	
n25 ANT1	0.47	0.20	0.29	0.21	0.41	0.63	0.37	0.06	0.33	/	0.52	/	0.46	/	0.43	/	/	/	
DC_66A_n41A	0.32	0.25	0.66	0.50	0.59	0.90	0.76	0.09	0.47	0.56	/	0.57	/	0.68	0.64	0.48	/	0.48	
B66 ANT1	0.23	0.13	0.25	0.16	0.35	0.52	0.54	/	0.47	/	/	/	/	/	/	/	/	/	
n41 ANT3	0.09	0.12	0.41	0.33	0.24	0.38	0.22	0.09	/	0.56	/	0.57	/	0.68	0.64	0.48	/	0.48	
DC_4A_n41A	0.32	0.25	0.66	0.50	0.59	0.90	0.76	0.09	0.47	0.56	/	0.57	/	0.68	0.64	0.48	/	0.48	
B4 ANT1	0.23	0.13	0.25	0.16	0.35	0.52	0.54	/	0.47	/	/	/	/	/	/	/	/	/	
n41 ANT3	0.09	0.12	0.41	0.33	0.24	0.38	0.22	0.09	/	0.56	/	0.57	/	0.68	0.64	0.48	/	0.48	
DC_2A_n5A	0.50	0.57	0.82	0.90	0.32	0.64	0.20	0.11	0.37	0.11	0.08	0.13	0.16	0.12	0.00	0.10	0.23	/	
B2 ANT3	0.38	0.51	0.57	0.74	0.07	0.09	0.15	/	0.11	/	0.13	/	0.12	/	0.10	0.23	/	/	
n5 ANT0	0.12	0.07	0.25	0.16	0.26	0.55	0.06	0.11	0.37	/	0.08	/	0.16	/	0.10	/	/	/	
DC_66A_n5A	0.42	0.47	0.76	0.78	0.82	1.11	0.24	0.11	0.37	0.67	0.08	0.29	/	0.16	0.33	0.19	0.10	0.40	
B66 ANT3	0.30	0.41	0.51	0.62	0.56	0.56	0.18	/	0.67	/	0.29	/	0.13	0.33	0.19	/	0.40	/	
n5 ANT0	0.12	0.07	0.25	0.16	0.26	0.55	0.06	0.11	0.37	/	0.08	/	0.16	/	0.10	/	/	/	
DC_5A_n2A	0.71	0.69	0.89	1.01	0.53	0.72	0.28	0.42	0.13	0.75	0.22	0.37	/	0.21	0.20	0.12	0.12	0.49	
B5 ANT0	0.30	0.18	0.31	0.23	0.14	0.23	0.12	0.25	0.13	0.22	/	0.21	/	0.12	/	0.12	/	/	
n2 ANT3	0.41	0.18	0.31	0.22	0.20	0.32	0.18	0.29	0.25	0.75	/	0.37	/	0.13	0.38	0.20	/	0.49	
DC_66A_n2A	0.74	0.56	0.72	0.79	0.71	0.86	0.94	0.05	0.18	0.67	0.74	/	0.37	/	0.33	0.19	0.35	0.40	
B66 ANT3	0.30	0.41	0.51	0.62	0.56	0.56	0.18	/	0.67	0.29	/	/	/	0.33	0.19	/	0.40	/	
n2 ANT1	0.44	0.15	0.21	0.17	0.15	0.30	0.76	0.05	0.18	/	0.45	/	0.37	/	0.35	/	/	/	
DC_4A_n2A	0.74	0.56	0.72	0.79	0.71	0.88	0.94	0.05	0.18	0.67	0.74	/	0.37	/	0.33	0.19	0.35	0.40	
B4 ANT3	0.30	0.41	0.51	0.62	0.56	0.58	0.18	/	0.67	0.29	/	/	/	0.33	0.19	/	0.40	/	
n2 ANT1	0.44	0.15	0.21	0.17	0.15	0.30	0.76	0.05	0.18	/	0.45	/	0.37	/	0.35	/	/	/	
DC_5A_n41A	0.39	0.31	0.72	0.57	0.38	0.61	0.34	0.35	0.14	0.56	0.22	0.57	/	0.21	0.68	0.64	0.12	0.48	
B5 ANT0	0.30	0.18	0.31	0.23	0.14	0.23	0.12	0.25	0.14	/	0.22	/	0.21	/	0.12	/	/	0.14	
n41 ANT3	0.09	0.12	0.41	0.33	0.24	0.38	0.22	0.09	/	0.56	/	0.57	/	0.68	0.64	/	0.48	/	
DC_25A_n41A	0.65	0.39	0.86	0.63	0.53	0.86	0.48	0.09	0.39	0.56	0.21	0.57	/	0.14	0.68	0.64	0.16	0.48	
B25 ANT1	0.56	0.27	0.45	0.29	0.20	0.32	0.18	0.29	0.25	/	0.27	/	0.21	/	0.14	/	0.16	/	
n41 ANT3	0.09	0.12	0.41	0.33	0.24	0.38	0.22	0.09	/	0.56	/	0.57	/	0.68	0.64	/	0.48	/	
DC_5A_n30A	0.44	0.36	0.67	0.71	0.31	0.55	0.34	0.25	0.14	0.27	0.22	0.12	/	0.21	0.14	0.20	0.12	0.14	
B5 ANT0	0.30	0.18	0.31	0.23	0.14	0.23	0.12	0.25	0.14	0.27	/	0.21	/	0.12	/	0.12	/	/	
n30 ANT3	0.14	0.18	0.36	0.48	0.17	0.31	0.23	/	0.27	/	0.12	/	0.14	0.20	/	0.14	/	/	
DC_12A_n30A	0.44	0.36	0.68	0.69	0.36	0.64	0.41	0.29	0.25	0.27	/	0.37	/	0.14	0.20	/	0.14	/	
B12 ANT0	0.41	0.50	0.58	0.77	0.39	0.48	0.16	0.17	/	0.75	/	0.37	/	0.38	0.20	/	0.49		
DC_66A_n2A	0.74	0.56	0.72	0.79	0.71	0.86	0.94	0.05	0.18	0.67	0.74	/	0.37	/	0.33	0.19	0.35	0.40	
B66 ANT3	0.30	0.41	0.51	0.62	0.56	0.56	0.18	/	0.67	0.29	/	/	/	0.33	0.19	/	0.40	/	
n2 ANT1	0.44	0.15	0.21	0.17	0.15	0.30	0.76	0.05	0.18	/	0.45	/	0.37	/	0.35	/	/	/	
DC_5A_n25a	0.29	0.34	0.63	0.67	0.37	0.73	0.65	0.23	0.23	0.27	/	0.27	/	0.14	0.20	/	0.14	0.44	
B14 ANT3	0.16	0.27	0.27	0.27	0.21	0.42	0.14	/	0.27	/	0.12	/	0.14	/	0.20	/	0.14	/	
n12 ANT3	0.14	0.18	0.36	0.48	0.17	0.31	0.23	/	0.27	0.13	0.27	/	0.12	/	0.14	/	0.14	/	
DC_66A_n30A	0.37	0.31	0.81	0.64	0.51	0.83	0.77	/	0.47	0.27	0.21	/	0.12	/	0.14	0.20	/	0.14	
B66 ANT1	0.23	0.13	0.25	0.16	0.35	0.52	0.54	/	0.47	/	0.33	/	0.27	/	0.14	0.20	/	0.14	
n30 ANT3	0.14	0.18	0.36	0.48	0.17	0.31	0.23	/	0.27	0.13	0.27	/	0.12	/	0.14	0.20	/	0.14	
DC_24_n77A	0.90	0.76	0.70	0.61	0.64	1.00	0.27	0.55	0.39	0.57	0.21	/	0.34	/	0.40	/	0.16	0.53	
B24 ANT1	0.56	0.27	0.45	0.29	0.29	0.48	0.27	/	0.39	/	0.21	/	0.14	/	0.40	/	0.16	0.53	
n77 ANT4	0.35	0.49	0.25	0.32	0.35	0.52	/	0.55	/	0.57	/	0.34	/	0.40	/	0.			

3.1 Applicant Information

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Telephone:	+86-21-53529900

3.2 Manufacturer Information

Company Name:	Wingtech Group (Hong Kong) Limited
Address/Post:	Flat/RM 1802 18/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL, HK
Contact Person:	sharui
Contact Email:	sharui@wingtech.com
Telephone:	+86-21-53529900

4 Equipment Under Test (EUT) and Ancillary Equipment (AE)

4.1 About EUT

Description:	5G Mobile Phone
Model name:	CELERO5G
Operating mode(s):	GSM850/1900, WCDMA B2/B4/B5 LTE Band2/12/14/25/26/30/41/66/71 BT, Wi-Fi(2.4G/5G) 5G NR n2/n5/n25/n30/n41/n66/n71
Tested Tx Frequency:	824 – 849 MHz (GSM 850) 1850 – 1910 MHz (GSM 1900) 824 – 849 MHz (WCDMA 850 Band V) 1850 – 1910 MHz (WCDMA1900 Band IV) 1710-1755 MHz (WCDMA1700 Band II) 1850.7 – 1909.3 MHz (LTE Band 2) 699.7 – 715.3 MHz (LTE Band 12) 788 – 798 MHz (LTE Band 14) 1850.7–1914.3 MHz (LTE Band 25) 814.7–848.3 MHz (LTE Band 26) 814.7–848.3 MHz (LTE Band 30) 2498.5 – 2687.5 MHz (LTE Band41) 3550 – 3700 MHz (LTE Band 48) 1710.7 –1779.3 MHz (LTE Band 66) 665.5 –695.5 MHz (LTE Band 71) 2412 – 2462 MHz (Wi-Fi 2.4G) 5180 – 5240 MHz (Wi-Fi 5.2G) 5260 – 5320 MHz (Wi-Fi 5.3G) 5500 – 5720 MHz (Wi-Fi 5.5G) 5745 – 5825 MHz (Wi-Fi 5.8G) 2400 – 2483.5 MHz (Bluetooth) 1852.5 – 1912.5 MHz (n2) 824 – 849 MHz (n5) 1850 – 1915 MHz(n25) 814.7–848.3 MHz(n26) 2305 – 2315 MHz(n30) 2496 – 2690 MHz(n41) 1710 – 1780 MHz(n66) 1695 - 1710 MHz(n70) 665.5 – 695.5 MHz (n71) 665.5 – 695.5 MHz (n77L) 665.5 – 695.5 MHz (n77H)
GPRS/EGPRS Multislot Class:	33
Test device production information:	Production unit
Device type:	Portable device
Antenna type:	Integrated antenna
Hotspot mode:	Support

4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	869183060021015	V1.0	Celero5GPlus_0.01.03
EUT2	869183060031980	.	Celero5GPlus_0.01.03
EUT3	869183060029968	V1.0	Celero5GPlus_0.01.03
EUT4	869183060021247	V1.0	Celero5GPlus_0.01.03
EUT5	869183060025917	V1.0	Celero5GPlus_0.01.03
EUT6	869183060021502	V1.0	Celero5GPlus_0.01.03
EUT7	869183060025941	V1.0	Celero5GPlus_0.01.03
EUT8	869183060032491	V1.0	Celero5GPlus_0.01.03
EUT9	869183060009929	V1.0	Celero5GPlus_0.01.03
EUT10	869183060009788	V1.0	Celero5GPlus_0.01.03
EUT11	869183060010059	V1.0	Celero5GPlus_0.01.03
EUT12	869183060022005	V1.0	Celero5GPlus_0.01.03
EUT13	869183060022369	V1.0	Celero5GPlus_0.01.03

*EUT ID: is used to identify the test sample in the lab internally.

Note: It is performed to test SAR with the EUT1~8 and conducted power with the EUT9~13.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	TM001	/	Dongguan Veken Battery Co., Ltd.

*AE ID: is used to identify the test sample in the lab internally.

5 TEST METHODOLOGY

5.1 Applicable Limit Regulations

ANSI C95.1-1992: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2 Applicable Measurement Standards

IEEE 1528-2013: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

KDB447498 D01: General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

KDB648474 D04 Handset SAR v01r03: SAR Evaluation Considerations for Wireless Handsets.

KDB941225 D01 SAR test for 3G devices v03r01: SAR Measurement Procedures for 3G Devices

KDB941225 D05 SAR for LTE Devices v02r05: SAR Evaluation Considerations for LTE Devices

KDB941225 D06 Hotspot Mode SAR v02r01: SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

KDB248227 D01 802.11 Wi-Fi SAR v02r02: SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz.

KDB865664 D02 RF Exposure Reporting v01r02: RF Exposure Compliance Reporting and Documentation Considerations

TCB Workshop Nov 2017: RF Exposure Procedures (Carrier Aggregation SAR)

TCB Workshop Nov 2019: RF Exposure Policy Updates (5G NR NSA Sub 6G SAR)

6 Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = c \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7 Tissue Simulating Liquids

7.1 Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid

Frequency(MHz)	Liquid Type	Conductivity(σ)	$\pm 10\%$ Range	Permittivity(ϵ)	$\pm 10\%$ Range
750	Head	0.89	0.80~0.98	41.94	37.75~46.13
835	Head	0.90	0.81~0.99	41.5	37.35~45.65
1750	Head	1.40	1.26~1.54	40.0	36~44
1900	Head	1.40	1.26~1.54	40.0	36~44
2450	Head	1.80	1.62~1.98	39.2	35.28~43.12
2600	Head	1.96	1.76~2.16	39.01	35.11~42.91
3700	Head	3.12	2.96~3.28	37.70	35.82~39.59
3900	Head	3.32	3.15~3.49	37.47	35.6~39.34
5250	Head	4.71	4.47~4.95	35.93	34.13~37.73
5600	Head	5.07	4.82~5.32	35.53	33.8~37.3
5750	Head	5.22	4.96~5.48	35.36	33.59~37.13

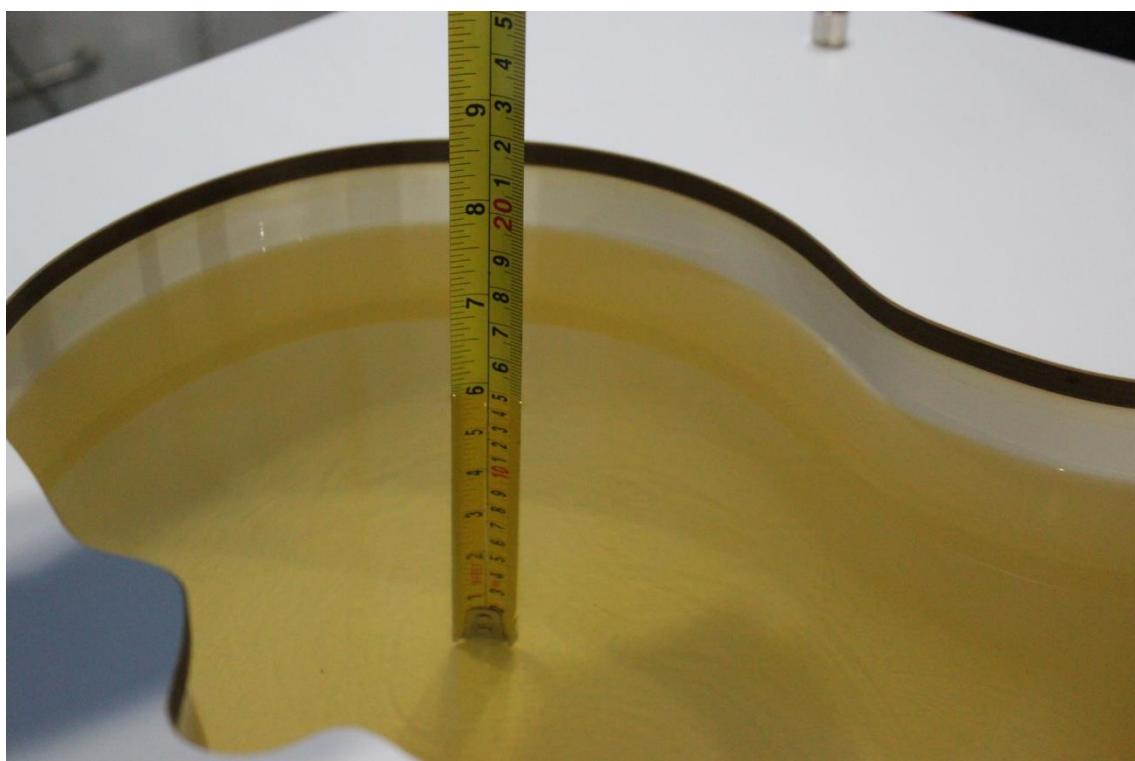
7.2 Dielectric Performance

Table 7.3: Dielectric Performance of Tissue Simulating Liquid

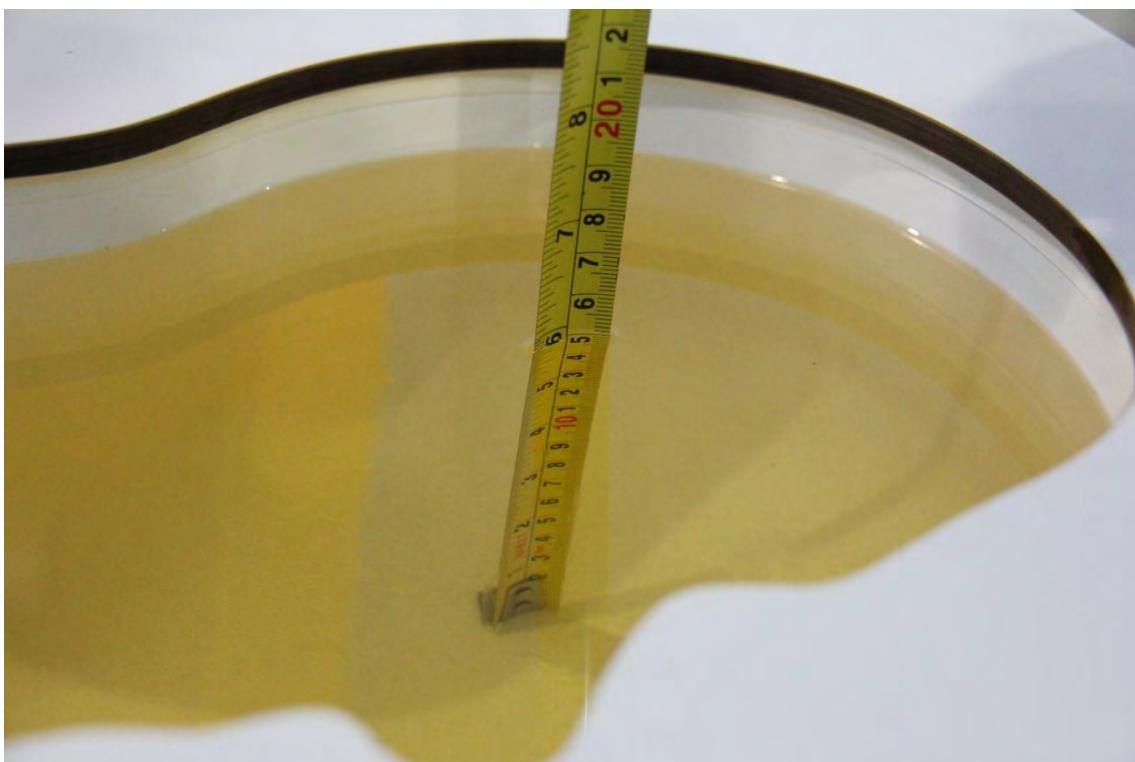
Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ϵ	Drift (%)	Conductivity σ (S/m)	Drift (%)
2022/10/4	Head	750 MHz	41.71	-0.55	0.88	-1.12
2022/10/5	Head	750 MHz	42	0.14	0.874	-1.80
2022/10/6	Head	835 MHz	41.26	-0.58	0.908	0.89
2022/10/7	Head	835 MHz	41.6	0.24	0.901	0.11
2022/10/8	Head	1750 MHz	40.68	1.50	1.38	0.73
2022/10/9	Head	1900 MHz	39.55	-1.13	1.39	-0.71
2022/10/10	Head	1900 MHz	39.85	-0.37	1.388	-0.86
2022/10/11	Head	2300 MHz	40.07	1.44	1.675	0.30
2022/10/12	Head	2600 MHz	39.53	1.33	1.959	-0.05
2022/10/13	Head	3500 MHz	37.72	0.05	2.95	1.37
2022/10/13	Head	3900 MHz	36.88	-1.57	3.17	-4.52
2022/9/27	Head	750 MHz	43.18	2.96	0.887	-0.34
2022/9/30	Head	900 MHz	42.68	2.84	0.955	-1.55
2022/10/9	Head	1750 MHz	41.81	4.32	1.363	-0.51
2022/9/29	Head	1900 MHz	41.57	3.93	1.457	4.07
2022/9/28	Head	1900 MHz	40.74	1.85	1.428	2.00
2022/10/10	Head	2300 MHz	41.09	4.10	1.749	4.73
2022/10/8	Head	2450 MHz	40.9	4.34	1.878	4.33
2022/10/19	Head	2600 MHz	40.19	3.02	2.028	3.47
2022/10/20	Head	3300 MHz	39.42	3.30	2.629	-2.99

2022/10/11	Head	3300 MHz	38.83	1.76	2.76	1.85
2022/10/20	Head	3500 MHz	39.03	2.90	2.81	-3.44
2022/10/11	Head	3500 MHz	38.44	1.34	2.95	1.37
2022/10/20	Head	3700 MHz	38.7	2.65	2.989	-4.20
2022/10/20	Head	3900 MHz	38.37	2.40	3.17	-4.52
2022/10/14	Head	5250 MHz	35.8	-0.36	4.588	-2.59
2022/10/14	Head	5600 MHz	35.22	-0.87	4.965	-2.07
2022/10/14	Head	5750 MHz	34.99	-1.05	5.118	-1.95

Note: The liquid temperature is 22.0°C



Picture 7-1 Liquid depth in the Head Phantom (750MHz)



Picture 7-2 Liquid depth in the Head Phantom (835 MHz)



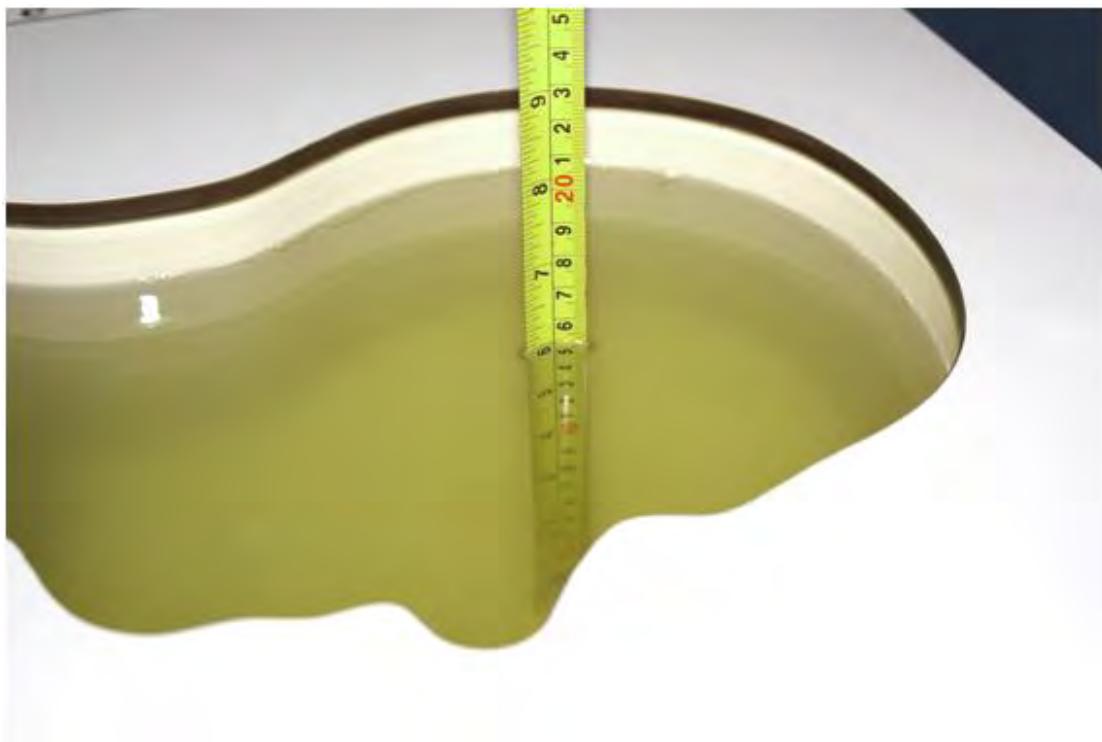
Picture 7-3 Liquid depth in the Head Phantom (1750 MHz)



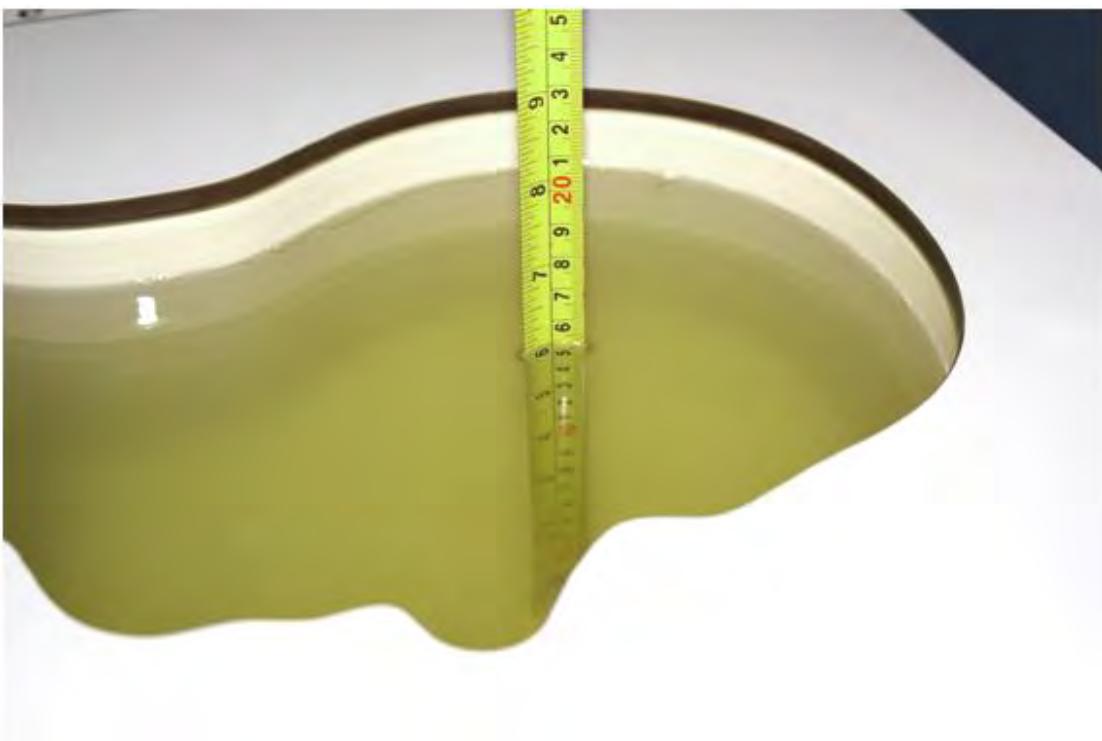
Picture 7-4 Liquid depth in the Head Phantom (1900 MHz)



Picture 7-5 Liquid depth in the Head Phantom (2450MHz)



Picture 7-6 Liquid depth in the Head Phantom (2600 MHz)



Picture 7-7 Liquid depth in the Head Phantom (3500-3900 MHz)

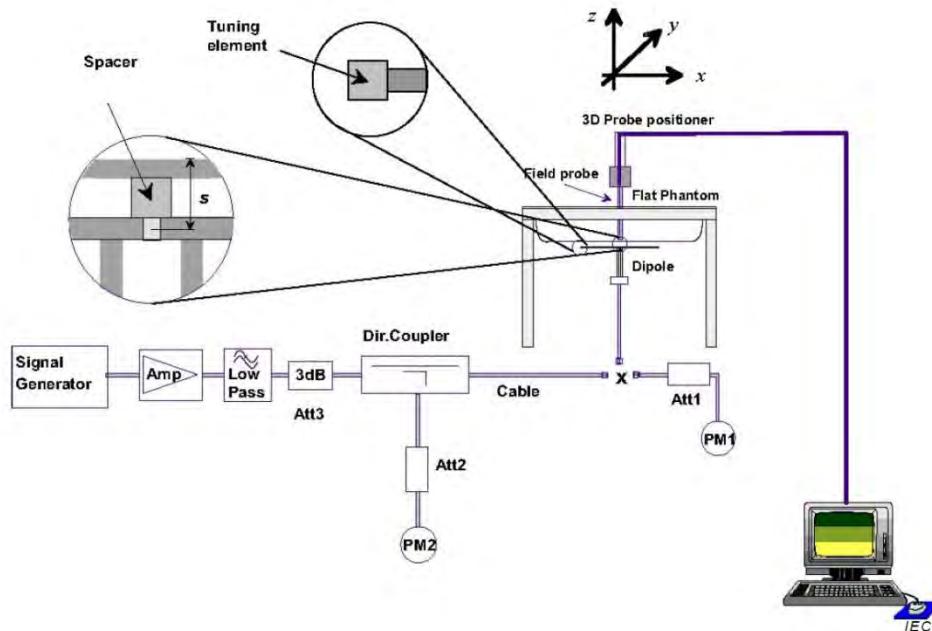


Picture 7-8 Liquid depth in the Head Phantom (5GHz)

8 System verification

8.1 System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



Picture 8.1 System Setup for System Evaluation



Picture 8.2 Photo of Dipole Setup

8.2 System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.

The system verification results are required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR. The details are presented in annex B.

Table 8.1: System Verification of Head

Measurement Date (yyyy-mm-dd)	Frequency	Target value (W/kg)		Measured value(W/kg)		Deviation	
		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2022/10/4	750 MHz	5.53	8.47	5.6	8.32	1.27%	-1.77%
2022/10/5	750 MHz	5.53	8.47	5.52	8.32	-0.18%	-1.77%
2022/10/6	835 MHz	6.25	9.60	6.16	9.76	-1.44%	1.67%
2022/10/7	835 MHz	6.25	9.60	6.24	9.72	-0.16%	1.25%
2022/10/8	1750 MHz	19.1	36.5	19.2	35.92	0.52%	-1.59%
2022/10/9	1900 MHz	20.6	39.6	20.4	40.2	-0.97%	1.52%
2022/10/10	1900 MHz	20.6	39.6	20.96	40.32	1.75%	1.82%
2022/10/11	2300 MHz	23.8	49.7	23.96	50.48	0.67%	1.57%
2022/10/12	2600 MHz	25.3	57.0	24.8	58.12	-1.98%	1.96%
2022/10/13	3500 MHz	25.2	67.3	25.0	66.4	-0.95%	-1.40%
2022/10/13	3900 MHz	24.1	69.3	24.2	67.9	0.58%	-1.99%
2022/9/27	750 MHz	5.64	8.63	5.84	8.76	3.55%	1.51%
2022/9/30	900 MHz	7.05	11.00	7.12	11.00	0.99%	0.00%
2022/10/9	1750 MHz	19.3	36.8	19.2	36.9	-0.31%	0.33%
2022/9/29	1900 MHz	20.7	39.7	20.2	39.6	-2.42%	-0.15%
2022/9/28	1900 MHz	20.7	39.7	20.6	40.0	-0.48%	0.65%
2022/10/10	2300 MHz	24.2	49.6	22.8	48.8	-5.62%	-1.61%
2022/10/8	2450 MHz	24.9	52.7	23.2	51.2	-6.67%	-2.85%
2022/10/19	2600 MHz	25.2	55.8	24.6	56.0	-2.22%	0.36%
2022/10/20	3300 MHz	25.0	6.60	24.8	6.5	-0.80%	-1.52%
2022/10/11	3300 MHz	25.0	6.60	26.4	6.7	5.60%	1.36%
2022/10/20	3500 MHz	25.3	6.79	25.0	6.6	-1.19%	-2.50%
2022/10/11	3500 MHz	25.3	6.79	25.4	6.7	0.40%	-1.62%
2022/10/20	3700 MHz	24.4	67.3	24.2	66.3	-0.82%	-1.49%
2022/10/20	3900 MHz	24.1	69.6	23.5	67.9	-2.49%	-2.44%
2022/10/14	5250 MHz	23.1	80.9	22.2	78.4	-3.90%	-3.09%
2022/10/14	5600 MHz	23.9	84.4	23.5	82.3	-1.67%	-2.49%
2022/10/14	5750 MHz	22.8	81.2	21.8	77.4	-4.39%	-4.68%

9 Measurement Procedures

9.1 Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

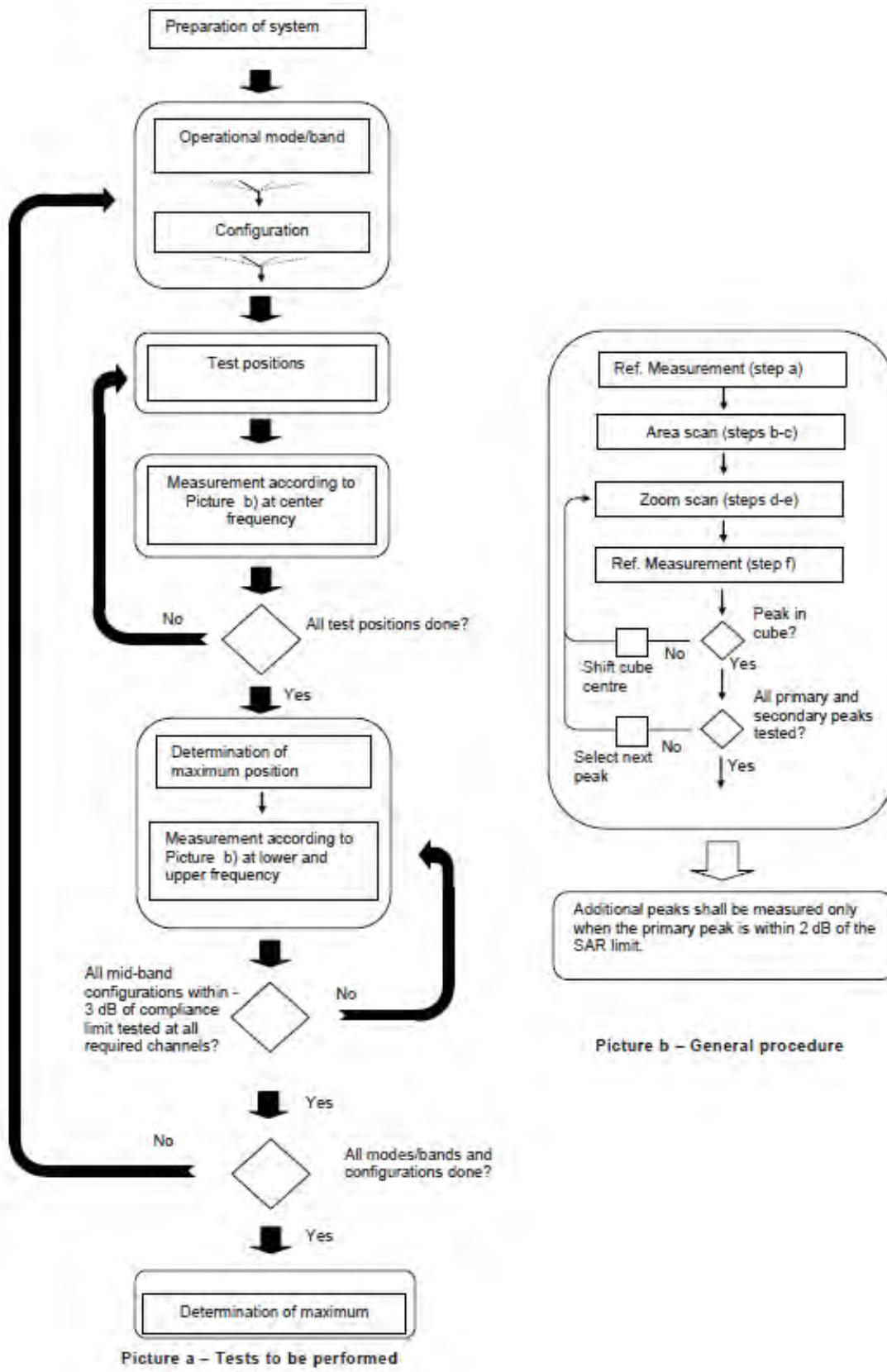
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

- a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
- b) all configurations for each device position in a), e.g., antenna extended and retracted, and
- c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_c > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing highest peak spatial-average SAR determined in Step 1, perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

Step 3: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.


Picture 9.1 Block diagram of the tests to be performed

9.2 General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2003. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
		$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1): \text{between 1}^{\text{st}}$ two points closest to phantom surface	$\leq 4 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1): \text{between}$ subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.			
* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

9.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCH_n), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

For Release 5 HSDPA Data Devices:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}	CM/dB
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15	15/15	64	12/15	24/25	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

For Release 6 HSPA Data Devices

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.5	1.5	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	1.5	1.5	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	1.5	1.5	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	1.5	1.5	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.5	1.5	21	81

Rel.8 DC-HSDPA (Cat 24)

SAR test exclusion for Rel.8 DC-HSDPA must satisfy the SAR test exclusion requirements of Rel.5 HSDPA. SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion.

9.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Rohde & Rchwarz CMW500. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the CMW 500.

It is performed for conducted power and SAR based on the KDB941225 D05.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

TDD test:

TDD testing is performed using guidance from FCC KDB 941225 D05 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

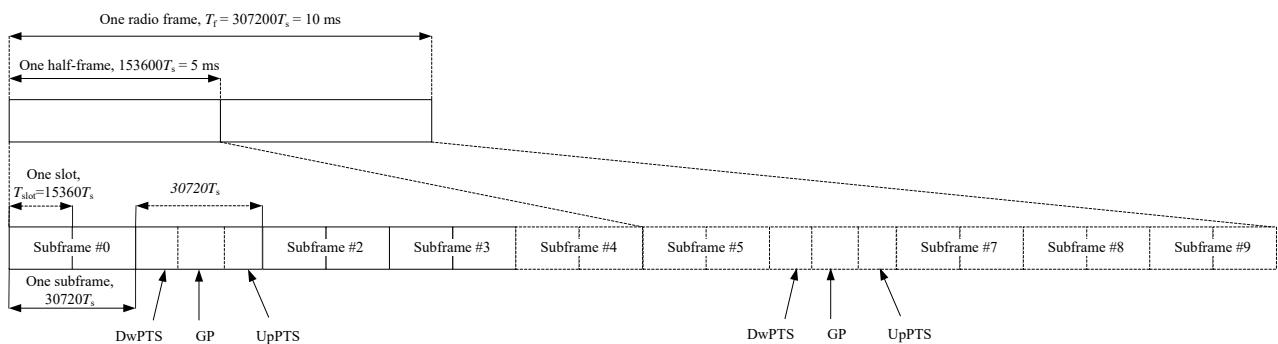


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 9.1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	2192 $\cdot T_s$	2560 $\cdot T_s$	7680 $\cdot T_s$	2192 $\cdot T_s$	2560 $\cdot T_s$
1	$19760 \cdot T_s$			20480 $\cdot T_s$		
2	$21952 \cdot T_s$			23040 $\cdot T_s$		
3	$24144 \cdot T_s$			25600 $\cdot T_s$		
4	$26336 \cdot T_s$			7680 $\cdot T_s$	4384 $\cdot T_s$	5120 $\cdot T_s$
5	$6592 \cdot T_s$	4384 $\cdot T_s$	5120 $\cdot T_s$	20480 $\cdot T_s$		
6	$19760 \cdot T_s$			23040 $\cdot T_s$		
7	$21952 \cdot T_s$			12800 $\cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

Table 9.2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Duty factor is calculated by:

$$\text{Duty factor} = \text{uplink frame} * 6 + \text{UpPTS} * 2 / \text{one frame length}$$

$$= (30720 \cdot T_s * 6 + 5120 \cdot T_s * 2) / 307200 \cdot T_s$$

$$= 0.633$$

9.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

9.6 Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in section14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

10 Area Scan Based 1-g SAR

10.1 Requirement of KDB

According to the KDB447498 D01, when the implementation is based the specific polynomial fit algorithm as presented at the 29th Bioelectromagnetics Society meeting (2007) and the estimated 1-gSAR is $\leq 1.2 \text{ W/kg}$, a zoom scan measurement is not required provided it is also not needed for any other purpose; for example, if the peak SAR location required for simultaneous transmission SAR test exclusion can be determined accurately by the SAR system or manually to discriminate between distinctive peaks and scattered noisy SAR distributions from area scans.

There must not be any warning or alert messages due to various measurement concerns identified by the SAR system; for example, noise in measurements, peaks too close to scan boundary, peaks are too sharp, spatial resolution and uncertainty issues etc. The SAR system verification must also demonstrate that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR (See Annex B). When all the SAR results for each exposure condition in a frequency band and wireless mode are based on estimated 1-g SAR, the 1-g SAR for the highest SAR configuration must be determined by a zoom scan.

10.2 Fast SAR Algorithms

The approach is based on the area scan measurement applying a frequency dependent attenuation parameter. This attenuation parameter was empirically determined by analyzing a large number of phones. The MOTOROLA FAST SAR was developed and validated by the MOTOROLA Research Group in Ft. Lauderdale.

In the initial study, an approximation algorithm based on Linear fit was developed. The accuracy of the algorithm has been demonstrated across a broad frequency range (136-2450 MHz)and for both 1- and 10-g averaged SAR using a sample of 264 SAR measurements from 55wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm mare 1.2% and 5.8% for 1- and 10-g averaged SAR, respectively. The paper describing the algorithm in detail is expected to be published in August 2004 within the Special Issue of Transactions on MTT.

In the second step, the same research group optimized the fitting algorithm to an Polynomial fit whereby the frequency validity was extended to cover the range 30-6000MHz. Details of this study can be found in the BEMS 2007 Proceedings.

Both algorithms are implemented in DASY software.

11 Conducted Output Power

Table11.1: Summary of Receiver detection mechanism

Antenna	Receiver on (Standalone)	Receiver off (Standalone)	Receiver on (UL CA/ENDC)	Receiver off (UL CA/ENDC)	Receiver off
Main Antenna	DSI2	DSI3	DSI4	DSI5	DSI8

11.1 GSM Measurement result

During the process of testing, the EUT was controlled via Agilent Digital Radio Communication tester (E5515C) to ensure the maximum power transmission and proper modulation. This result contains conducted output power for the EUT. In all cases, the measured peak output power should be greater and within 5% than EMI measurement.

**Table 11.1-1: The conducted power measurement results –GSM850
-Power Level DSI2/3/8**

GSM 850 Speech (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.32	31.96	32.31	33.50	/	/	/	/
GSM 850 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.37	32.00	32.36	33.50	-9.03	23.34	22.97	23.33
2 Txslots	30.20	30.26	30.28	31.50	-6.02	24.18	24.24	24.26
3 Txslots	28.33	28.40	28.41	29.50	-4.26	24.07	24.14	24.15
4 Txslots	26.20	26.30	26.34	27.50	-3.01	23.19	23.29	23.33
GSM 850 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	32.41	32.04	32.42	33.50	-9.03	23.38	23.01	23.39
2 Txslots	30.22	30.30	30.33	31.50	-6.02	24.20	24.28	24.31
3 Txslots	28.35	28.43	28.46	29.50	-4.26	24.09	24.17	24.20
4 Txslots	26.23	26.33	26.39	27.50	-3.01	23.22	23.32	23.38
GSM 850 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	251	190	128			251	190	128
1 Txslot	25.15	25.24	25.19	26.50	-9.03	16.12	16.21	16.16
2 Txslots	24.35	24.41	25.28	25.50	-6.02	18.33	18.39	19.26
3Txslots	22.63	22.67	22.96	24.00	-4.26	18.37	18.41	18.70
4 Txslots	21.34	20.98	21.11	22.50	-3.01	18.33	17.97	18.10

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 2Txslots for GSM850.

**Table 11.1-2: The conducted power measurement results-GSM1900
-Power Level DS12/3/8**

PCS1900 Speech (GMSK)	Measured timeslot-averaged output power (dBm)			Tune up	calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	28.71	28.86	28.72	30.50	/	/	/	/
PCS1900 GPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	28.90	28.88	28.71	30.50	-9.03	19.87	19.85	19.68
2 Txslots	26.59	26.58	26.56	27.50	-6.02	20.57	20.56	20.54
3 Txslots	24.85	24.78	24.79	26.50	-4.26	20.59	20.52	20.53
4 Txslots	23.07	23.03	23.09	24.50	-3.01	20.06	20.02	20.08
PCS1900 EGPRS (GMSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	28.73	28.88	28.73	30.50	-9.03	19.70	19.85	19.70
2 Txslots	26.43	26.51	26.49	27.50	-6.02	20.41	20.49	20.47
3 Txslots	24.72	24.71	24.74	26.50	-4.26	20.46	20.45	20.48
4 Txslots	22.97	22.95	23.04	24.50	-3.01	19.96	19.94	20.03
PCS1900 EGPRS (8PSK)	Measured timeslot-averaged output power (dBm)				calculation	Source-based time-averaged output power (dBm)		
	810	661	512			810	661	512
1 Txslot	24.28	24.41	24.47	25.50	-9.03	15.25	15.38	15.44
2 Txslots	23.07	23.20	23.19	24.50	-6.02	17.05	17.18	17.17
3Txslots	21.40	21.72	21.50	22.50	-4.26	17.14	17.46	17.24
4 Txslots	19.96	19.87	19.99	21.50	-3.01	16.95	16.86	16.98

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with

2Txslots for GSM1900.

11.2 WCDMA Measurement result

Table 11.2-1: The conducted Power for WCDMA B2/B4 -DSI2/4/5/8

WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938	9400/9800	9262/9662	
	(1907.6MHz)	(1880MHz)	(1852.4MHz)	
	23.08	23.16	23.05	24.00
HSUPA	21.73	21.86	21.79	22.50
	21.26	21.35	21.28	22.50
	21.78	21.84	21.77	22.50
	21.78	21.79	21.73	22.50
	21.85	21.91	21.71	22.50
DC-HSDPA	21.83	21.91	21.83	23.00
	21.79	21.88	21.79	23.00
	21.29	21.38	21.29	22.50
	21.2	21.36	21.21	22.50

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738	1412/1637	1312/1537	
	(1752.6MHz)	(1732.4MHz)	(1712.4MHz)	
	23.11	23.03	23.04	24.00
HSUPA	22.07	21.93	21.98	22.50
	21.57	21.43	21.45	22.50
	22.09	21.93	21.98	22.50
	22.02	21.96	21.98	22.50
	22.13	21.95	22.01	22.50
DC-HSDPA	21.97	21.98	22.03	23.00
	22.02	21.98	22.04	23.00
	21.51	21.46	21.53	22.50
	21.47	21.39	21.45	22.50

Table 11.2-2: The conducted Power for WCDMA B2/B4 -DSI3

WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938 (1907.6MHz)	9400/9800 (1880MHz)	9262/9662 (1852.4MHz)	
	22.55	22.65	22.59	
HSUPA	21.31	21.40	21.38	22.00
	20.79	20.87	20.87	22.00
	21.36	21.41	21.30	22.00
	21.33	21.38	21.32	22.00
	21.41	21.49	21.28	22.00
DC-HSDPA	21.42	21.49	21.35	22.50
	21.29	21.48	21.34	22.50
	20.82	20.89	20.88	22.00
	20.76	20.93	20.81	22.00

WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738 (1752.6MHz)	1412/1637 (1732.4MHz)	1312/1537 (1712.4MHz)	
	23.02	22.96	22.92	
HSUPA	21.63	21.47	21.54	22.00
	21.16	20.96	21.04	22.00
	21.61	21.46	21.50	22.00
	21.54	21.56	21.50	22.00
	21.66	21.49	21.59	22.00
DC-HSDPA	21.47	21.57	21.62	22.50
	21.56	21.58	21.57	22.50
	21.02	20.99	21.10	22.00
	21.00	20.98	20.96	22.00

Table 11.2-3: The conducted Power for WCDMA B5 -Power Level DS12/3/4/5/8

WCDMA850	FDDV result (dBm)			Tune up
	4233/4458 (846.6MHz)	4183/4408 (836.6MHz)	4132/4357 (826.4MHz)	
	23.14	23.11	23.10	
	21.97	22.13	22.05	
HSUPA	21.43	21.55	21.44	23.00
	21.85	22.11	21.85	23.00
	21.84	22.12	21.93	23.00
	21.86	22.09	21.95	23.00
	22.03	22.16	21.99	22.50
DC-HSDPA	21.98	21.99	21.83	22.50
	21.36	21.50	21.34	22.00
	21.38	21.51	21.31	22.00

11.3 LTE Measurement result

Antenna	Receiver on (Standalone)	Receiver off (Standalone)	Receiver on (UL CA/ENDC)	Receiver off (UL CA/ENDC)	Receiver off
Main Antenna	DSI2	DSI3	DSI4	DSI5	DSI8

Maximum Target Power for Production Unit

Tune up (dBm)					
BAND	Receiver on (Standalone)	Receiver off (Standalone)	Receiver on (ULCA/ENDC)	Receiver off (ULCA/ENDC)	Receiver off
LTE B2 ANT3	/	/	20.00	19.00	24.50
LTE B12 ANT0	24.50	24.50	24.50	24.50	24.50
LTE B14 ANT0	24.50	24.50	24.50	23.50	24.50
LTE B25 ANT1	24.50	23.00	24.50	19.00	24.50
LTE B26 ANT0	24.50	24.50	24.50	21.50	24.50
LTE B30 ANT0	24.50	24.50	24.50	19.00	24.50
LTE B30 ANT3	20.50	22.00	24.50	24.50	24.50
LTE B41 PC2 ANT3	17.00	19.00	/	/	26.00
LTE B41 PC3 ANT3	17.00	19.00	/	/	25.00
LTE B48 ANT4	17.50	20.50	/	/	24.00
LTE B66 ANT1	24.50	23.00	24.50	20.00	24.50
LTE B66 ANT3	/	/	20.00	19.50	24.50
LTE B71 ANT0	24.50	24.50	24.50	24.50	24.50

LTE B2 ANT3 DS13/4/8						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	23.80	23.05	22.43	19.10
		1880 (18900)	23.96	23.22	22.36	19.36
		1850.7 (18607)	23.88	23.07	22.41	19.58
	1RB-Middle (3)	1909.3 (19193)	24.02	23.06	22.25	19.12
		1880 (18900)	24.12	23.23	22.39	19.72
		1850.7 (18607)	23.92	23.29	22.29	19.12
	1RB-Low (0)	1909.3 (19193)	23.89	23.14	22.33	18.89
		1880 (18900)	24.01	23.28	22.60	20.01
		1850.7 (18607)	23.91	23.21	22.51	19.11
	3RB-High (3)	1909.3 (19193)	23.88	22.95	22.21	18.98
		1880 (18900)	24.07	23.20	22.28	19.27
		1850.7 (18607)	23.95	23.05	22.20	19.65
	3RB-Middle (1)	1909.3 (19193)	23.93	23.11	22.27	19.13
		1880 (18900)	24.14	23.14	22.44	19.54
		1850.7 (18607)	24.02	23.01	22.25	19.62
	3RB-Low (0)	1909.3 (19193)	23.91	23.01	22.29	19.71
		1880 (18900)	24.10	23.14	22.43	19.60
		1850.7 (18607)	23.99	23.07	22.40	19.39
	6RB (0)	1909.3 (19193)	22.96	22.05	21.30	18.86
		1880 (18900)	23.21	22.17	21.30	19.01
		1850.7 (18607)	23.04	22.01	21.12	18.24
3MHz	1RB-High (14)	1908.5 (19185)	24.02	23.29	22.22	19.22
		1880 (18900)	24.09	23.37	22.36	19.09
		1851.5 (18615)	23.88	23.32	22.15	19.88
	1RB-Middle (7)	1908.5 (19185)	24.03	23.45	22.10	19.83
		1880 (18900)	24.21	23.37	22.36	19.51
		1851.5 (18615)	23.99	23.46	22.28	19.69
	1RB-Low (0)	1908.5 (19185)	24.21	23.50	22.39	19.41
		1880 (18900)	24.24	23.38	22.60	19.84
		1851.5 (18615)	24.12	23.54	22.41	19.72
	8RB-High (7)	1908.5 (19185)	23.09	22.13	21.40	18.39
		1880 (18900)	23.23	22.19	21.44	18.53
		1851.5 (18615)	23.08	21.99	21.36	18.38
	8RB-Middle (4)	1908.5 (19185)	23.06	22.24	21.39	18.66
		1880 (18900)	23.21	22.28	21.40	18.81
		1851.5 (18615)	23.12	22.23	21.29	18.32
	8RB-Low (0)	1908.5 (19185)	23.20	22.23	21.39	19.10
		1880 (18900)	23.26	22.23	21.46	19.06
		1851.5 (18615)	23.13	22.11	21.46	19.03
	15RB (0)	1908.5 (19185)	23.15	22.13	21.39	19.15
		1880 (18900)	23.20	22.23	21.38	18.30
		1851.5 (18615)	23.21	22.18	21.24	18.81
5MHz	1RB-High (24)	1907.5 (19175)	24.14	23.40	22.38	19.34
		1880 (18900)	24.09	23.39	22.50	19.99
		1852.5 (18625)	23.97	23.20	22.29	18.97
	1RB-Middle (12)	1907.5 (19175)	24.08	23.67	22.07	19.68
		1880 (18900)	24.17	23.84	22.49	19.17
		1852.5 (18625)	24.10	23.40	22.37	19.30
	1RB-Low (0)	1907.5 (19175)	24.13	23.31	22.51	19.93
		1880 (18900)	24.07	23.47	22.47	19.97
		1852.5 (18625)	24.06	23.39	22.33	19.36
	12RB-High (13)	1907.5 (19175)	23.08	22.10	21.34	18.58
		1880 (18900)	23.24	22.23	21.36	18.54
		1852.5 (18625)	23.04	22.11	21.28	18.54
	12RB-Middle (6)	1907.5 (19175)	23.23	22.25	21.31	18.53
		1880 (18900)	23.26	22.38	21.49	18.36
		1852.5 (18625)	23.13	22.21	21.36	18.93
	12RB-Low (0)	1907.5 (19175)	23.25	22.26	21.52	18.75
		1880 (18900)	23.19	22.21	21.41	19.19
		1852.5 (18625)	23.20	22.09	21.42	18.40
	25RB (0)	1907.5 (19175)	23.13	22.15	21.45	18.13
		1880 (18900)	23.14	22.17	21.34	18.74
		1852.5 (18625)	23.11	22.09	21.29	18.91

10MHz	1RB-High (49)	1905 (19150)	24.00	23.57	22.51	19.30
		1880 (18900)	24.00	23.62	22.26	19.60
		1855 (18650)	23.98	23.61	22.35	19.48
	1RB-Middle (24)	1905 (19150)	24.07	23.28	22.44	19.47
		1880 (18900)	24.21	23.30	22.43	20.21
		1855 (18650)	24.03	23.22	22.33	19.23
	1RB-Low (0)	1905 (19150)	24.14	23.63	22.53	19.54
		1880 (18900)	24.10	23.66	22.60	19.80
		1855 (18650)	24.13	23.68	22.49	19.83
	25RB-High (25)	1905 (19150)	23.11	22.11	21.28	18.41
		1880 (18900)	23.05	22.25	21.41	18.05
		1855 (18650)	23.14	22.18	21.37	19.04
	25RB-Middle (12)	1905 (19150)	23.24	22.30	21.41	19.04
		1880 (18900)	23.17	22.27	21.46	18.17
		1855 (18650)	23.13	22.26	21.45	18.23
	25RB-Low (0)	1905 (19150)	23.27	22.26	21.42	18.97
		1880 (18900)	23.29	22.27	21.38	18.99
		1855 (18650)	23.23	22.25	21.39	18.83
	50RB (0)	1905 (19150)	23.21	22.24	21.44	18.91
		1880 (18900)	23.26	22.27	21.31	18.76
		1855 (18650)	23.14	22.18	21.35	19.04
15MHz	1RB-High (74)	1902.5 (19125)	23.92	23.36	22.70	19.32
		1880 (18900)	24.03	23.38	22.75	19.63
		1857.5 (18675)	23.98	23.28	22.43	18.98
	1RB-Middle (37)	1902.5 (19125)	24.03	23.41	22.59	19.43
		1880 (18900)	24.10	23.36	22.54	19.30
		1857.5 (18675)	23.94	23.31	22.50	18.94
	1RB-Low (0)	1902.5 (19125)	24.06	23.44	22.59	19.46
		1880 (18900)	24.07	23.40	22.59	19.87
		1857.5 (18675)	23.96	23.51	22.58	19.96
	36RB-High (38)	1902.5 (19125)	23.12	22.13	21.28	18.82
		1880 (18900)	23.15	22.19	21.28	18.95
		1857.5 (18675)	23.15	22.09	21.26	18.35
	36RB-Middle (19)	1902.5 (19125)	23.20	22.14	21.39	18.80
		1880 (18900)	23.22	22.09	21.37	18.32
		1857.5 (18675)	23.17	22.06	21.31	18.57
	36RB-Low (0)	1902.5 (19125)	23.20	22.14	21.41	18.90
		1880 (18900)	23.09	22.15	21.37	18.69
		1857.5 (18675)	23.23	22.16	21.40	19.03
	75RB (0)	1902.5 (19125)	23.10	22.15	21.34	18.50
		1880 (18900)	23.16	22.13	21.30	18.56
		1857.5 (18675)	23.08	22.19	21.24	18.48
20MHz	1RB-High (99)	1900 (19100)	24.00	23.50	22.22	19.50
		1880 (18900)	24.02	23.52	22.36	19.32
		1860 (18700)	24.04	23.23	22.23	19.74
	1RB-Middle (50)	1900 (19100)	23.99	23.29	22.29	19.99
		1880 (18900)	24.03	23.39	22.28	19.63
		1860 (18700)	24.01	23.37	22.34	19.61
	1RB-Low (0)	1900 (19100)	23.98	23.53	22.36	19.88
		1880 (18900)	24.13	23.42	22.36	19.33
		1860 (18700)	24.00	23.28	22.22	19.00
	50RB-High (50)	1900 (19100)	23.24	22.23	21.27	18.87
		1880 (18900)	23.22	22.22	21.18	18.32
		1860 (18700)	23.22	22.15	21.13	18.92
	50RB-Middle (25)	1900 (19100)	23.22	22.18	21.32	19.14
		1880 (18900)	23.27	22.23	21.18	18.92
		1860 (18700)	23.19	22.15	21.16	18.59
	50RB-Low (0)	1900 (19100)	23.26	22.23	21.16	19.26
		1880 (18900)	23.23	22.23	21.20	18.63
		1860 (18700)	23.16	22.15	21.03	18.66
	100RB (0)	1900 (19100)	23.22	22.17	21.23	18.62
		1880 (18900)	23.18	22.12	21.07	18.98
		1860 (18700)	23.13	22.17	21.16	19.03

LTE B12 ANT0 DS12/3/4/5/8						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	715.3 (23173)	23.90	23.15	21.60	19.20
		707.5 (23095)	23.90	23.26	21.95	19.30
		699.7 (23017)	23.94	23.22	21.62	19.84
	1RB-Middle (3)	715.3 (23173)	24.07	23.23	21.74	19.17
		707.5 (23095)	23.91	23.35	22.10	19.11
		699.7 (23017)	24.12	23.24	21.61	20.12
	1RB-Low (0)	715.3 (23173)	23.92	23.20	21.79	19.52
		707.5 (23095)	23.91	23.28	22.04	19.11
		699.7 (23017)	23.96	23.30	21.59	19.46
	3RB-High (3)	715.3 (23173)	23.95	23.19	21.55	18.95
		707.5 (23095)	23.92	23.04	21.93	19.72
		699.7 (23017)	24.00	23.00	21.55	19.50
	3RB-Middle (1)	715.3 (23173)	24.04	22.90	21.72	19.84
		707.5 (23095)	24.06	23.02	21.95	19.96
		699.7 (23017)	24.01	22.76	21.64	19.61
	3RB-Low (0)	715.3 (23173)	23.93	22.86	21.67	19.13
		707.5 (23095)	24.01	23.02	21.78	19.71
		699.7 (23017)	24.06	23.21	21.60	19.16
	6RB (0)	715.3 (23173)	23.02	22.04	20.56	18.42
		707.5 (23095)	23.15	22.02	20.93	19.05
		699.7 (23017)	23.09	22.20	20.98	18.59
3MHz	1RB-High (14)	714.5 (23165)	24.02	23.19	21.72	19.22
		707.5 (23095)	24.04	23.22	22.17	19.84
		700.5 (23025)	23.98	23.28	21.81	19.28
	1RB-Middle (7)	714.5 (23165)	24.01	23.35	21.89	19.91
		707.5 (23095)	24.03	23.32	22.08	19.73
		700.5 (23025)	24.01	23.35	21.73	19.21
	1RB-Low (0)	714.5 (23165)	24.08	23.31	22.07	19.78
		707.5 (23095)	24.01	23.43	22.09	19.81
		700.5 (23025)	24.08	23.32	21.84	19.68
	8RB-High (7)	714.5 (23165)	23.08	22.14	20.73	18.38
		707.5 (23095)	23.04	22.14	20.94	18.74
		700.5 (23025)	23.10	21.98	20.67	18.30
	8RB-Middle (4)	714.5 (23165)	23.08	22.14	20.81	18.48
		707.5 (23095)	23.08	22.19	20.94	18.88
		700.5 (23025)	23.14	22.24	20.72	18.54
	8RB-Low (0)	714.5 (23165)	23.06	22.05	20.87	18.86
		707.5 (23095)	23.04	22.11	20.99	18.04
		700.5 (23025)	23.10	22.22	20.71	18.70
	15RB (0)	714.5 (23165)	22.99	22.04	20.79	18.59
		707.5 (23095)	22.95	22.10	20.98	18.55
		700.5 (23025)	23.12	22.20	20.69	18.82

5MHz	1RB-High (24)	713.5 (23155)	23.92	23.17	21.80	19.12
		707.5 (23095)	23.95	23.30	22.03	19.55
		701.5 (23035)	24.00	23.41	22.00	19.30
	1RB-Middle (12)	713.5 (23155)	23.99	23.42	22.03	19.49
		707.5 (23095)	23.97	23.39	22.10	19.67
		701.5 (23035)	24.03	23.37	21.84	19.03
	1RB-Low (0)	713.5 (23155)	24.11	23.34	22.07	19.91
		707.5 (23095)	24.00	23.36	22.06	19.60
		701.5 (23035)	24.01	23.37	21.89	19.41
	12RB-High (13)	713.5 (23155)	22.91	22.07	20.83	17.91
		707.5 (23095)	23.01	22.11	20.86	18.71
		701.5 (23035)	23.05	21.90	20.81	18.85
	12RB-Middle (6)	713.5 (23155)	22.98	22.14	20.96	18.48
		707.5 (23095)	22.99	22.10	21.00	18.79
		701.5 (23035)	23.17	22.21	20.79	18.17
	12RB-Low (0)	713.5 (23155)	23.06	22.13	20.89	19.06
		707.5 (23095)	23.05	22.16	20.98	18.15
		701.5 (23035)	23.14	22.20	20.80	18.54
	25RB (0)	713.5 (23155)	22.94	22.08	20.89	18.84
		707.5 (23095)	23.01	22.05	20.99	18.91
		701.5 (23035)	23.07	22.10	20.76	18.97
10MHz	1RB-High (49)	711 (23130)	23.97	23.45	22.03	19.87
		707.5 (23095)	23.98	23.41	21.95	19.68
		704 (23060)	24.06	23.40	21.92	19.86
	1RB-Middle (24)	711 (23130)	23.94	23.11	22.05	19.14
		707.5 (23095)	24.03	23.25	22.14	19.13
		704 (23060)	24.03	23.34	21.88	19.33
	1RB-Low (0)	711 (23130)	24.16	23.33	22.20	19.16
		707.5 (23095)	24.06	23.37	21.99	20.06
		704 (23060)	24.13	23.36	21.87	19.73
	25RB-High (25)	711 (23130)	23.04	22.17	20.88	18.74
		707.5 (23095)	23.15	22.10	20.99	19.05
		704 (23060)	23.14	22.21	20.92	19.14
	25RB-Middle (12)	711 (23130)	23.06	22.12	21.01	18.86
		707.5 (23095)	23.13	22.18	20.98	19.13
		704 (23060)	23.15	22.31	21.00	18.95
	25RB-Low (0)	711 (23130)	23.21	22.15	20.92	18.69
		707.5 (23095)	23.15	22.19	21.01	18.35
		704 (23060)	23.09	22.07	20.86	18.81
	50RB (0)	711 (23130)	23.04	22.10	20.84	18.14
		707.5 (23095)	23.08	22.16	21.08	18.38
		704 (23060)	23.19	22.24	20.95	18.79

LTE B14 ANT0 DS12/3/4/8						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	795.5 (23355)	23.96	23.45	21.99	19.26
		793 (23330)	23.99	23.33	21.82	19.39
		790.5 (23305)	23.99	23.35	21.80	19.09
	1RB-Middle (12)	795.5 (23355)	24.01	23.39	21.87	19.31
		793 (23330)	24.06	23.47	21.70	19.90
		790.5 (23305)	24.07	23.72	21.71	19.57
	1RB-Low (0)	795.5 (23355)	24.09	23.45	21.83	19.99
		793 (23330)	23.99	23.48	21.78	19.19
		790.5 (23305)	24.01	23.58	21.77	19.11
	12RB-High (13)	795.5 (23355)	23.09	22.08	20.77	18.59
		793 (23330)	23.04	22.17	20.65	18.74
		790.5 (23305)	23.09	22.16	20.67	18.89
	12RB-Middle (6)	795.5 (23355)	23.23	22.22	20.80	18.93
		793 (23330)	23.17	22.14	20.69	18.67
		790.5 (23305)	23.22	22.21	20.72	18.82
	12RB-Low (0)	795.5 (23355)	23.23	22.23	20.80	18.93
		793 (23330)	23.10	22.15	20.80	18.80
		790.5 (23305)	23.18	22.07	20.74	18.68
	25RB (0)	795.5 (23355)	23.11	22.20	20.72	18.21
		793 (23330)	23.07	22.21	20.69	18.57
		790.5 (23305)	23.14	22.20	20.68	18.44
10MHz	1RB-High (49)	793 (23330)	23.99	23.35	21.71	18.99
	1RB-Middle (24)	793 (23330)	24.02	23.39	21.62	19.22
	1RB-Low (0)	793 (23330)	24.19	23.26	21.67	19.79
	25RB-High (25)	793 (23330)	23.06	22.10	20.55	18.16
	25RB-Middle (12)	793 (23330)	23.00	22.14	20.68	18.20
	25RB-Low (0)	793 (23330)	23.01	22.19	20.71	18.06
	50RB (0)	793 (23330)	23.03	22.02	20.62	18.13

LTE B14 ANT0 DS15						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	795.5 (23355)	22.32	22.39	22.15	22.43
		793 (23330)	22.23	22.30	22.06	22.37
		790.5 (23305)	22.24	22.31	22.07	22.34
	1RB-Middle (12)	795.5 (23355)	22.55	22.55	22.12	22.69
		793 (23330)	22.46	22.46	22.03	22.58
		790.5 (23305)	22.47	22.47	22.04	22.60
	1RB-Low (0)	795.5 (23355)	22.48	22.54	22.19	22.59
		793 (23330)	22.39	22.45	22.10	22.49
		790.5 (23305)	22.40	22.46	22.11	22.51
	12RB-High (13)	795.5 (23355)	22.40	21.51	21.01	22.50
		793 (23330)	22.31	21.42	20.93	22.46
		790.5 (23305)	22.32	21.43	20.94	22.45
	12RB-Middle (6)	795.5 (23355)	22.32	21.56	21.06	22.42
		793 (23330)	22.23	21.47	20.98	22.36
		790.5 (23305)	22.24	21.48	20.99	22.37
	12RB-Low (0)	795.5 (23355)	22.42	21.58	21.11	22.53
		793 (23330)	22.33	21.49	21.03	22.43
		790.5 (23305)	22.34	21.50	21.04	22.48
	25RB (0)	795.5 (23355)	22.41	21.48	20.95	22.54
		793 (23330)	22.32	21.39	20.87	22.43
		790.5 (23305)	22.33	21.40	20.88	22.47
10MHz	1RB-High (49)	793 (23330)	22.22	22.29	22.05	22.36
	1RB-Middle (24)	793 (23330)	22.38	22.45	22.02	22.59
	1RB-Low (0)	793 (23330)	22.45	22.44	22.09	22.48
	25RB-High (25)	793 (23330)	22.32	21.41	20.92	22.45
	25RB-Middle (12)	793 (23330)	22.22	21.46	20.97	22.36
	25RB-Low (0)	793 (23330)	22.30	21.48	21.02	22.42
	50RB (0)	793 (23330)	22.31	21.38	20.86	22.43

LTE B25 ANT1 DS1/4/8						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	23.71	23.03	22.20	19.61
		1882.5 (26365)	23.95	23.43	22.49	19.25
		1850.7 (26047)	23.87	23.18	22.23	19.57
	1RB-Middle (3)	1914.3 (26683)	23.84	23.16	22.54	19.14
		1882.5 (26365)	24.20	23.35	22.36	20.00
		1850.7 (26047)	23.89	23.19	22.36	19.09
	1RB-Low (0)	1914.3 (26683)	23.63	23.07	21.95	19.03
		1882.5 (26365)	23.99	23.27	22.24	19.79
		1850.7 (26047)	23.96	23.21	22.21	19.06
	3RB-High (3)	1914.3 (26683)	23.91	23.00	22.19	19.21
		1882.5 (26365)	24.04	23.12	22.27	20.04
		1850.7 (26047)	23.98	23.07	22.13	19.98
	3RB-Middle (1)	1914.3 (26683)	23.91	23.05	22.20	19.31
		1882.5 (26365)	24.12	23.07	22.26	19.82
		1850.7 (26047)	24.02	23.19	22.24	19.02
	3RB-Low (0)	1914.3 (26683)	23.90	22.97	22.14	19.60
		1882.5 (26365)	24.14	23.15	22.38	19.94
		1850.7 (26047)	23.88	23.07	22.24	19.28
	6RB (0)	1914.3 (26683)	22.91	21.96	20.93	18.61
		1882.5 (26365)	23.21	22.22	21.27	19.01
		1850.7 (26047)	23.09	22.06	21.14	18.99
3MHz	1RB-High (14)	1913.5 (26675)	24.06	23.37	22.13	19.86
		1882.5 (26365)	24.14	23.53	22.43	19.34
		1851.5 (26055)	24.03	23.42	22.28	19.63
	1RB-Middle (7)	1913.5 (26675)	23.93	23.21	21.99	19.63
		1882.5 (26365)	24.14	23.40	22.26	19.44
		1851.5 (26055)	23.97	23.63	22.05	19.87
	1RB-Low (0)	1913.5 (26675)	23.82	23.31	22.13	19.32
		1882.5 (26365)	24.13	23.43	22.41	20.13
		1851.5 (26055)	24.08	23.45	22.34	19.58
	8RB-High (7)	1913.5 (26675)	23.05	22.04	21.26	18.95
		1882.5 (26365)	23.10	22.17	21.36	18.70
		1851.5 (26055)	23.16	22.13	21.32	18.96
	8RB-Middle (4)	1913.5 (26675)	23.04	22.08	21.14	18.24
		1882.5 (26365)	23.18	22.27	21.36	18.88
		1851.5 (26055)	23.07	22.21	21.29	18.07
	8RB-Low (0)	1913.5 (26675)	23.03	22.05	21.24	18.63
		1882.5 (26365)	23.23	22.22	21.42	19.03
		1851.5 (26055)	23.07	22.20	21.27	18.17
	15RB (0)	1913.5 (26675)	23.00	22.09	21.20	18.50
		1882.5 (26365)	23.18	22.16	21.24	18.78
		1851.5 (26055)	23.19	22.04	21.24	18.59
5MHz	1RB-High (24)	1912.5 (26665)	24.03	23.33	22.21	19.23
		1882.5 (26365)	24.23	23.49	22.50	19.53
		1852.5 (26065)	24.04	23.43	22.39	19.34
	1RB-Middle (12)	1912.5 (26665)	23.95	23.63	22.15	19.55
		1882.5 (26365)	24.13	23.76	22.32	19.13
		1852.5 (26065)	24.03	23.31	22.29	19.03
	1RB-Low (0)	1912.5 (26665)	23.88	23.32	22.24	19.18
		1882.5 (26365)	24.09	23.57	22.49	19.39
		1852.5 (26065)	24.07	23.41	22.34	19.77
	12RB-High (13)	1912.5 (26665)	23.02	22.04	21.30	18.12
		1882.5 (26365)	23.22	22.25	21.30	18.92
		1852.5 (26065)	23.17	22.27	21.31	18.77
	12RB-Middle (6)	1912.5 (26665)	23.00	22.11	21.14	18.60
		1882.5 (26365)	23.28	22.30	21.39	18.88
		1852.5 (26065)	23.15	22.18	21.29	18.25
	12RB-Low (0)	1912.5 (26665)	23.09	22.11	21.29	18.29
		1882.5 (26365)	23.15	22.25	21.36	18.35
		1852.5 (26065)	23.21	22.26	21.25	18.31
	25RB (0)	1912.5 (26665)	23.05	22.09	21.18	18.55
		1882.5 (26365)	23.18	22.15	21.27	18.78
		1852.5 (26065)	23.17	22.20	21.30	18.27

10MHz	1RB-High (49)	1910 (26640)	23.85	23.67	22.32	19.45
		1882.5 (26365)	23.97	23.69	22.43	18.97
		1855 (26090)	24.00	23.52	22.35	19.00
	1RB-Middle (24)	1910 (26640)	23.90	23.05	22.19	19.30
		1882.5 (26365)	24.07	23.19	22.41	19.67
		1855 (26090)	23.98	23.24	22.28	19.98
	1RB-Low (0)	1910 (26640)	24.06	23.55	22.40	19.06
		1882.5 (26365)	24.01	23.62	22.52	19.11
		1855 (26090)	23.92	23.37	22.38	19.62
	25RB-High (25)	1910 (26640)	22.95	22.05	21.22	18.85
		1882.5 (26365)	23.20	22.27	21.32	18.30
		1855 (26090)	23.18	22.20	21.33	19.18
	25RB-Middle (12)	1910 (26640)	23.18	22.20	21.31	18.68
		1882.5 (26365)	23.16	22.28	21.30	18.46
		1855 (26090)	23.17	22.22	21.34	18.47
	25RB-Low (0)	1910 (26640)	23.12	22.26	21.34	19.12
		1882.5 (26365)	23.25	22.30	21.41	18.55
		1855 (26090)	23.18	22.22	21.26	19.08
	50RB (0)	1910 (26640)	23.19	22.20	21.40	18.79
		1882.5 (26365)	23.19	22.21	21.32	18.79
		1855 (26090)	23.08	22.23	21.33	18.18
15MHz	1RB-High (74)	1907.5 (26615)	23.80	23.31	22.58	19.20
		1882.5 (26365)	23.91	23.36	22.55	19.51
		1857.5 (26115)	23.89	23.18	22.37	19.69
	1RB-Middle (37)	1907.5 (26615)	23.84	23.17	22.33	19.74
		1882.5 (26365)	23.98	23.29	22.45	19.68
		1857.5 (26115)	23.84	23.23	22.39	19.44
	1RB-Low (0)	1907.5 (26615)	23.91	23.22	22.44	19.81
		1882.5 (26365)	24.01	23.41	22.41	19.91
		1857.5 (26115)	23.98	23.26	22.47	19.88
	36RB-High (38)	1907.5 (26615)	22.99	21.94	21.11	18.49
		1882.5 (26365)	23.15	22.01	21.32	18.45
		1857.5 (26115)	23.07	22.02	21.25	19.07
	36RB-Middle (19)	1907.5 (26615)	23.11	22.00	21.24	18.51
		1882.5 (26365)	23.12	22.10	21.22	18.22
		1857.5 (26115)	23.17	22.10	21.22	18.27
	36RB-Low (0)	1907.5 (26615)	23.06	22.06	21.10	18.86
		1882.5 (26365)	23.12	22.12	21.16	19.12
		1857.5 (26115)	23.17	22.10	21.11	18.37
	75RB (0)	1907.5 (26615)	23.03	22.09	21.27	18.63
		1882.5 (26365)	23.10	22.19	21.28	18.50
		1857.5 (26115)	23.07	22.13	21.22	18.27
20MHz	1RB-High (99)	1905 (26590)	23.81	23.29	21.99	19.81
		1882.5 (26365)	23.97	23.31	22.31	19.57
		1860 (26140)	23.96	23.44	22.25	19.26
	1RB-Middle (50)	1905 (26590)	23.81	23.45	22.24	19.81
		1882.5 (26365)	23.99	23.55	22.34	19.92
		1860 (26140)	23.83	23.31	22.19	19.03
	1RB-Low (0)	1905 (26590)	24.02	23.43	22.35	19.41
		1882.5 (26365)	23.91	23.45	22.36	19.39
		1860 (26140)	23.87	23.41	22.14	19.87
	50RB-High (50)	1905 (26590)	23.14	22.17	21.04	18.54
		1882.5 (26365)	23.15	22.25	21.25	18.25
		1860 (26140)	23.14	22.17	21.16	18.64
	50RB-Middle (25)	1905 (26590)	23.15	22.25	21.25	18.35
		1882.5 (26365)	23.28	22.17	21.22	18.93
		1860 (26140)	23.19	22.13	21.19	19.09
	50RB-Low (0)	1905 (26590)	23.20	22.22	21.17	19.10
		1882.5 (26365)	23.23	22.19	21.16	18.68
		1860 (26140)	23.10	22.15	21.13	18.80
	100RB (0)	1905 (26590)	23.28	22.25	21.27	19.08
		1882.5 (26365)	23.19	22.12	21.17	18.39
		1860 (26140)	23.14	22.15	21.12	18.54

LTE B25 ANT1 DS13						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	20.89	20.99	21.07	21.01
		1882.5 (26365)	21.00	21.04	21.12	21.12
		1850.7 (26047)	21.04	21.24	21.32	21.17
	1RB-Middle (3)	1914.3 (26683)	20.93	21.01	21.09	21.06
		1882.5 (26365)	21.04	21.07	21.15	21.19
		1850.7 (26047)	21.01	21.18	21.27	21.12
	1RB-Low (0)	1914.3 (26683)	21.03	21.10	21.18	21.14
		1882.5 (26365)	21.04	21.04	21.12	21.15
		1850.7 (26047)	21.01	21.18	21.26	21.15
	3RB-High (3)	1914.3 (26683)	21.06	21.09	21.17	21.17
		1882.5 (26365)	21.13	21.11	21.19	21.27
		1850.7 (26047)	21.17	21.21	21.29	21.32
	3RB-Middle (1)	1914.3 (26683)	21.12	21.14	21.22	21.23
		1882.5 (26365)	21.14	21.13	21.21	21.26
		1850.7 (26047)	21.20	21.24	21.32	21.33
	3RB-Low (0)	1914.3 (26683)	21.15	21.14	21.22	21.29
		1882.5 (26365)	21.11	21.14	21.22	21.26
		1850.7 (26047)	21.18	21.21	21.30	21.28
	6RB (0)	1914.3 (26683)	21.13	21.12	21.20	21.23
		1882.5 (26365)	21.15	21.12	21.20	21.29
		1850.7 (26047)	21.19	21.24	21.32	21.34
3MHz	1RB-High (14)	1913.5 (26675)	20.97	21.07	21.15	21.07
		1882.5 (26365)	21.08	21.12	21.20	21.22
		1851.5 (26055)	21.12	21.32	21.40	21.22
	1RB-Middle (7)	1913.5 (26675)	21.01	21.09	21.17	21.16
		1882.5 (26365)	21.12	21.15	21.23	21.27
		1851.5 (26055)	21.09	21.26	21.35	21.24
	1RB-Low (0)	1913.5 (26675)	21.11	21.18	21.26	21.21
		1882.5 (26365)	21.12	21.12	21.20	21.26
		1851.5 (26055)	21.09	21.26	21.34	21.24
	8RB-High (7)	1913.5 (26675)	21.15	21.17	21.25	21.26
		1882.5 (26365)	21.22	21.19	21.27	21.33
		1851.5 (26055)	21.25	21.29	21.37	21.39
	8RB-Middle (4)	1913.5 (26675)	21.20	21.22	21.30	21.31
		1882.5 (26365)	21.22	21.21	21.29	21.33
		1851.5 (26055)	21.28	21.32	21.40	21.43
	8RB-Low (0)	1913.5 (26675)	21.23	21.22	21.30	21.35
		1882.5 (26365)	21.19	21.22	21.30	21.30
		1851.5 (26055)	21.26	21.30	21.38	21.37
	15RB (0)	1913.5 (26675)	21.22	21.21	21.29	21.36
		1882.5 (26365)	21.23	21.20	21.28	21.34
		1851.5 (26055)	21.27	21.32	21.40	21.38
5MHz	1RB-High (24)	1912.5 (26665)	20.95	21.05	21.13	21.10
		1882.5 (26365)	21.06	21.10	21.18	21.17
		1852.5 (26065)	21.10	21.30	21.38	21.20
	1RB-Middle (12)	1912.5 (26665)	20.99	21.07	21.15	21.14
		1882.5 (26365)	21.10	21.13	21.21	21.23
		1852.5 (26065)	21.07	21.24	21.33	21.21
	1RB-Low (0)	1912.5 (26665)	21.09	21.16	21.24	21.22
		1882.5 (26365)	21.10	21.10	21.18	21.22
		1852.5 (26065)	21.07	21.24	21.32	21.19
	12RB-High (13)	1912.5 (26665)	21.13	21.15	21.23	21.28
		1882.5 (26365)	21.20	21.17	21.25	21.34
		1852.5 (26065)	21.23	21.27	21.35	21.33
	12RB-Middle (6)	1912.5 (26665)	21.18	21.20	21.28	21.28
		1882.5 (26365)	21.20	21.19	21.27	21.34
		1852.5 (26065)	21.26	21.30	21.38	21.40
	12RB-Low (0)	1912.5 (26665)	21.21	21.20	21.28	21.33
		1882.5 (26365)	21.17	21.20	21.28	21.27
		1852.5 (26065)	21.24	21.28	21.36	21.39
	25RB (0)	1912.5 (26665)	21.19	21.19	21.27	21.31
		1882.5 (26365)	21.21	21.18	21.26	21.33
		1852.5 (26065)	21.25	21.30	21.38	21.38

10MHz	1RB-High (49)	1910 (26640)	20.97	21.07	21.15	21.09
		1882.5 (26365)	21.08	21.12	21.20	21.21
		1855 (26090)	21.12	21.32	21.40	21.23
	1RB-Middle (24)	1910 (26640)	21.01	21.09	21.17	21.11
		1882.5 (26365)	21.12	21.15	21.23	21.25
		1855 (26090)	21.09	21.26	21.35	21.19
	1RB-Low (0)	1910 (26640)	21.11	21.18	21.26	21.21
		1882.5 (26365)	21.12	21.12	21.20	21.24
		1855 (26090)	21.09	21.26	21.34	21.23
	25RB-High (25)	1910 (26640)	21.15	21.17	21.25	21.29
		1882.5 (26365)	21.22	21.19	21.27	21.32
		1855 (26090)	21.25	21.29	21.37	21.39
	25RB-Middle (12)	1910 (26640)	21.20	21.22	21.30	21.32
		1882.5 (26365)	21.22	21.21	21.29	21.36
		1855 (26090)	21.28	21.32	21.40	21.39
	25RB-Low (0)	1910 (26640)	21.23	21.22	21.30	21.35
		1882.5 (26365)	21.19	21.22	21.30	21.34
		1855 (26090)	21.26	21.30	21.38	21.38
	50RB (0)	1910 (26640)	21.22	21.21	21.29	21.33
		1882.5 (26365)	21.23	21.20	21.28	21.36
		1855 (26090)	21.27	21.32	21.40	21.37
15MHz	1RB-High (74)	1907.5 (26615)	20.88	20.98	21.06	21.02
		1882.5 (26365)	20.99	21.03	21.11	21.14
		1857.5 (26115)	21.03	21.23	21.31	21.14
	1RB-Middle (37)	1907.5 (26615)	20.92	21.00	21.08	21.06
		1882.5 (26365)	21.03	21.06	21.14	21.16
		1857.5 (26115)	21.00	21.17	21.26	21.12
	1RB-Low (0)	1907.5 (26615)	21.02	21.09	21.17	21.12
		1882.5 (26365)	21.03	21.03	21.11	21.16
		1857.5 (26115)	21.00	21.17	21.25	21.12
	36RB-High (38)	1907.5 (26615)	21.05	21.08	21.16	21.15
		1882.5 (26365)	21.12	21.10	21.18	21.25
		1857.5 (26115)	21.16	21.20	21.28	21.29
	36RB-Middle (19)	1907.5 (26615)	21.11	21.13	21.21	21.22
		1882.5 (26365)	21.13	21.12	21.20	21.28
		1857.5 (26115)	21.19	21.23	21.31	21.31
	36RB-Low (0)	1907.5 (26615)	21.14	21.13	21.21	21.26
		1882.5 (26365)	21.10	21.13	21.21	21.21
		1857.5 (26115)	21.17	21.20	21.28	21.27
	75RB (0)	1907.5 (26615)	21.12	21.11	21.19	21.25
		1882.5 (26365)	21.14	21.11	21.19	21.27
		1857.5 (26115)	21.18	21.23	21.31	21.32
20MHz	1RB-High (99)	1905 (26590)	20.82	20.92	21.00	20.97
		1882.5 (26365)	20.93	20.97	21.05	21.08
		1860 (26140)	20.97	21.17	21.25	21.08
	1RB-Middle (50)	1905 (26590)	20.97	20.94	21.02	20.99
		1882.5 (26365)	20.86	21.00	21.08	21.10
		1860 (26140)	20.94	21.11	21.19	21.09
	1RB-Low (0)	1905 (26590)	20.96	21.02	21.11	21.07
		1882.5 (26365)	20.95	20.97	21.05	21.09
		1860 (26140)	20.94	21.11	21.19	21.08
	50RB-High (50)	1905 (26590)	20.99	21.02	21.10	21.10
		1882.5 (26365)	21.06	21.04	21.12	21.19
		1860 (26140)	21.10	21.14	21.22	21.20
	50RB-Middle (25)	1905 (26590)	21.05	21.07	21.14	21.15
		1882.5 (26365)	21.07	21.06	21.14	21.17
		1860 (26140)	21.13	21.17	21.25	21.24
	50RB-Low (0)	1905 (26590)	21.08	21.07	21.15	21.23
		1882.5 (26365)	21.04	21.07	21.15	21.18
		1860 (26140)	21.11	21.14	21.22	21.26
	100RB (0)	1905 (26590)	21.06	21.05	21.13	21.16
		1882.5 (26365)	21.08	21.05	21.13	21.22
		1860 (26140)	21.12	21.17	21.25	21.25

LTE B25 ANT1 DS15						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1914.3 (26683)	17.73	18.03	18.11	17.84
		1882.5 (26365)	17.95	18.12	18.20	18.07
		1850.7 (26047)	17.98	18.26	18.34	18.11
	1RB-Middle (3)	1914.3 (26683)	17.78	18.03	18.11	17.93
		1882.5 (26365)	17.87	18.11	18.19	17.97
		1850.7 (26047)	17.89	18.19	18.27	18.03
	1RB-Low (0)	1914.3 (26683)	17.92	18.14	18.22	18.05
		1882.5 (26365)	17.99	18.12	18.20	18.10
		1850.7 (26047)	17.87	18.21	18.29	18.01
	3RB-High (3)	1914.3 (26683)	18.04	18.07	18.15	18.19
		1882.5 (26365)	18.07	18.08	18.16	18.20
		1850.7 (26047)	18.15	18.18	18.26	18.28
	3RB-Middle (1)	1914.3 (26683)	18.04	18.09	18.17	18.14
		1882.5 (26365)	18.07	18.08	18.16	18.20
		1850.7 (26047)	18.15	18.19	18.28	18.26
	3RB-Low (0)	1914.3 (26683)	18.10	18.13	18.21	18.24
		1882.5 (26365)	18.13	18.11	18.19	18.23
		1850.7 (26047)	18.12	18.21	18.29	18.22
	6RB (0)	1914.3 (26683)	18.08	18.11	18.19	18.19
		1882.5 (26365)	18.09	18.09	18.17	18.22
		1850.7 (26047)	18.14	18.18	18.26	18.24
3MHz	1RB-High (14)	1913.5 (26675)	17.85	18.15	18.23	18.00
		1882.5 (26365)	18.07	18.24	18.32	18.22
		1851.5 (26055)	18.10	18.38	18.46	18.22
	1RB-Middle (7)	1913.5 (26675)	17.90	18.15	18.23	18.03
		1882.5 (26365)	17.99	18.23	18.31	18.13
		1851.5 (26055)	18.01	18.32	18.40	18.12
	1RB-Low (0)	1913.5 (26675)	18.04	18.26	18.34	18.19
		1882.5 (26365)	18.11	18.24	18.32	18.26
		1851.5 (26055)	17.99	18.33	18.41	18.11
	8RB-High (7)	1913.5 (26675)	18.16	18.19	18.28	18.26
		1882.5 (26365)	18.19	18.20	18.28	18.31
		1851.5 (26055)	18.27	18.30	18.38	18.38
	8RB-Middle (4)	1913.5 (26675)	18.16	18.21	18.29	18.27
		1882.5 (26365)	18.19	18.20	18.28	18.33
		1851.5 (26055)	18.27	18.32	18.40	18.41
	8RB-Low (0)	1913.5 (26675)	18.22	18.25	18.33	18.37
		1882.5 (26365)	18.25	18.23	18.31	18.40
		1851.5 (26055)	18.24	18.33	18.41	18.39
	15RB (0)	1913.5 (26675)	18.20	18.23	18.31	18.34
		1882.5 (26365)	18.21	18.21	18.29	18.35
		1851.5 (26055)	18.26	18.31	18.39	18.36
5MHz	1RB-High (24)	1912.5 (26665)	17.86	18.16	18.24	18.01
		1882.5 (26365)	18.08	18.25	18.33	18.18
		1852.5 (26065)	18.11	18.39	18.47	18.23
	1RB-Middle (12)	1912.5 (26665)	17.91	18.16	18.24	18.01
		1882.5 (26365)	18.00	18.24	18.32	18.15
		1852.5 (26065)	18.02	18.33	18.41	18.14
	1RB-Low (0)	1912.5 (26665)	18.05	18.27	18.35	18.20
		1882.5 (26365)	18.12	18.25	18.33	18.26
		1852.5 (26065)	18.00	18.34	18.42	18.13
	12RB-High (13)	1912.5 (26665)	18.17	18.20	18.29	18.32
		1882.5 (26365)	18.20	18.21	18.29	18.30
		1852.5 (26065)	18.28	18.31	18.39	18.42
	12RB-Middle (6)	1912.5 (26665)	18.17	18.22	18.30	18.29
		1882.5 (26365)	18.20	18.21	18.29	18.34
		1852.5 (26065)	18.28	18.33	18.41	18.39
	12RB-Low (0)	1912.5 (26665)	18.23	18.26	18.34	18.36
		1882.5 (26365)	18.26	18.24	18.32	18.37
		1852.5 (26065)	18.25	18.34	18.42	18.39
	25RB (0)	1912.5 (26665)	18.21	18.24	18.32	18.35
		1882.5 (26365)	18.22	18.22	18.30	18.35
		1852.5 (26065)	18.27	18.32	18.40	18.37

10MHz	1RB-High (49)	1910 (26640)	17.80	18.10	18.18	17.90
		1882.5 (26365)	18.02	18.19	18.27	18.17
		1855 (26090)	18.05	18.33	18.41	18.18
	1RB-Middle (24)	1910 (26640)	17.85	18.10	18.18	17.96
		1882.5 (26365)	17.94	18.18	18.26	18.07
		1855 (26090)	17.96	18.27	18.35	18.09
	1RB-Low (0)	1910 (26640)	17.99	18.21	18.29	18.13
		1882.5 (26365)	18.06	18.19	18.27	18.21
		1855 (26090)	17.94	18.28	18.36	18.09
	25RB-High (25)	1910 (26640)	18.11	18.14	18.22	18.25
		1882.5 (26365)	18.14	18.15	18.23	18.26
		1855 (26090)	18.22	18.25	18.33	18.33
	25RB-Middle (12)	1910 (26640)	18.11	18.16	18.24	18.21
		1882.5 (26365)	18.14	18.15	18.23	18.29
		1855 (26090)	18.22	18.27	18.35	18.36
	25RB-Low (0)	1910 (26640)	18.17	18.20	18.28	18.29
		1882.5 (26365)	18.20	18.18	18.26	18.32
		1855 (26090)	18.19	18.28	18.36	18.31
	50RB (0)	1910 (26640)	18.15	18.18	18.26	18.26
		1882.5 (26365)	18.16	18.16	18.24	18.26
		1855 (26090)	18.21	18.26	18.34	18.33
15MHz	1RB-High (74)	1907.5 (26615)	17.69	17.99	18.07	17.83
		1882.5 (26365)	17.91	18.08	18.16	18.05
		1857.5 (26115)	17.94	18.22	18.30	18.08
	1RB-Middle (37)	1907.5 (26615)	17.74	17.99	18.07	17.89
		1882.5 (26365)	17.83	18.07	18.15	17.94
		1857.5 (26115)	17.85	18.15	18.23	17.97
	1RB-Low (0)	1907.5 (26615)	17.88	18.10	18.18	18.03
		1882.5 (26365)	17.95	18.08	18.16	18.06
		1857.5 (26115)	17.83	18.17	18.25	17.97
	36RB-High (38)	1907.5 (26615)	18.00	18.03	18.11	18.10
		1882.5 (26365)	18.03	18.04	18.12	18.13
		1857.5 (26115)	18.11	18.14	18.22	18.22
	36RB-Middle (19)	1907.5 (26615)	18.00	18.05	18.13	18.13
		1882.5 (26365)	18.03	18.04	18.12	18.17
		1857.5 (26115)	18.11	18.15	18.23	18.26
	36RB-Low (0)	1907.5 (26615)	18.06	18.09	18.17	18.21
		1882.5 (26365)	18.09	18.07	18.15	18.20
		1857.5 (26115)	18.08	18.17	18.25	18.20
	75RB (0)	1907.5 (26615)	18.04	18.07	18.15	18.18
		1882.5 (26365)	18.05	18.05	18.13	18.20
		1857.5 (26115)	18.10	18.14	18.22	18.21
20MHz	1RB-High (99)	1905 (26590)	17.66	17.96	18.04	17.78
		1882.5 (26365)	17.88	18.05	18.13	18.02
		1860 (26140)	17.91	18.19	18.27	18.03
	1RB-Middle (50)	1905 (26590)	17.92	17.96	18.04	17.85
		1882.5 (26365)	17.80	18.04	18.12	17.91
		1860 (26140)	17.71	18.12	18.20	17.95
	1RB-Low (0)	1905 (26590)	17.85	18.07	18.15	17.97
		1882.5 (26365)	17.83	18.05	18.13	18.03
		1860 (26140)	17.80	18.14	18.22	17.95
	50RB-High (50)	1905 (26590)	17.97	18.00	18.08	18.12
		1882.5 (26365)	18.00	18.01	18.08	18.11
		1860 (26140)	18.06	18.11	18.19	18.22
	50RB-Middle (25)	1905 (26590)	17.97	18.02	18.10	18.11
		1882.5 (26365)	18.00	18.01	18.09	18.10
		1860 (26140)	18.08	18.12	18.20	18.22
	50RB-Low (0)	1905 (26590)	18.03	18.06	18.14	18.16
		1882.5 (26365)	18.06	18.04	18.12	18.17
		1860 (26140)	18.05	18.14	18.22	18.18
	100RB (0)	1905 (26590)	18.01	18.04	18.12	18.16
		1882.5 (26365)	18.02	18.02	18.10	18.14
		1860 (26140)	18.07	18.11	18.19	18.22

LTE B26 ANT0 DS12/3/4/8						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (27033)	23.74	23.13	22.24	19.54
		831.5 (26865)	23.91	23.25	22.11	19.21
		814.7 (26697)	23.89	23.45	22.27	19.79
	1RB-Middle (3)	848.3 (27033)	24.00	23.21	22.07	19.90
		831.5 (26865)	23.99	23.38	22.29	19.89
		814.7 (26697)	23.90	23.27	22.15	19.10
	1RB-Low (0)	848.3 (27033)	23.81	23.05	22.04	19.51
		831.5 (26865)	24.01	23.18	22.18	20.01
		814.7 (26697)	24.02	23.29	22.17	19.02
	3RB-High (3)	848.3 (27033)	23.82	23.03	21.93	18.92
		831.5 (26865)	23.94	23.09	22.06	19.94
		814.7 (26697)	23.97	23.15	22.06	19.17
	3RB-Middle (1)	848.3 (27033)	23.92	22.69	21.93	19.32
		831.5 (26865)	23.97	22.87	22.25	18.97
		814.7 (26697)	24.18	23.18	22.24	19.58
	3RB-Low (0)	848.3 (27033)	23.92	23.06	21.75	19.52
		831.5 (26865)	24.02	23.03	21.95	19.62
		814.7 (26697)	23.99	23.05	22.05	19.29
	6RB (0)	848.3 (27033)	22.97	21.93	20.80	18.37
		831.5 (26865)	22.91	21.96	20.82	18.61
		814.7 (26697)	23.05	22.15	20.94	18.15
3MHz	1RB-High (14)	847.5 (27025)	24.02	23.36	21.99	19.12
		831.5 (26865)	24.04	23.47	22.27	19.84
		815.5 (26705)	24.01	23.39	22.17	19.31
	1RB-Middle (7)	847.5 (27025)	23.98	22.90	21.93	18.98
		831.5 (26865)	24.00	23.71	22.11	19.20
		815.5 (26705)	23.99	23.55	22.09	19.99
	1RB-Low (0)	847.5 (27025)	23.97	23.41	22.13	19.17
		831.5 (26865)	24.16	23.39	22.03	20.16
		815.5 (26705)	24.10	23.38	21.97	20.00
	8RB-High (7)	847.5 (27025)	23.08	22.13	20.91	18.88
		831.5 (26865)	23.17	22.17	21.08	18.97
		815.5 (26705)	23.15	22.20	20.96	19.05
	8RB-Middle (4)	847.5 (27025)	23.15	22.17	21.02	18.95
		831.5 (26865)	23.12	22.20	21.04	19.02
		815.5 (26705)	23.16	22.20	21.14	18.56
	8RB-Low (0)	847.5 (27025)	23.07	22.09	20.96	18.37
		831.5 (26865)	23.07	22.04	20.96	18.67
		815.5 (26705)	23.01	22.15	21.01	19.01
	15RB (0)	847.5 (27025)	23.04	22.09	21.01	18.44
		831.5 (26865)	23.09	22.06	20.99	18.29
		815.5 (26705)	23.07	22.10	21.00	18.67
5MHz	1RB-High (24)	846.5 (27015)	24.09	23.52	22.09	19.99
		831.5 (26865)	24.09	23.49	22.05	19.29
		816.5 (26715)	24.06	23.42	22.15	19.66
	1RB-Middle (12)	846.5 (27015)	24.00	23.38	21.93	19.70
		831.5 (26865)	24.10	23.49	22.13	19.90
		816.5 (26715)	24.14	23.43	22.13	19.44
	1RB-Low (0)	846.5 (27015)	24.08	23.52	22.03	19.68
		831.5 (26865)	23.98	23.45	21.99	19.68
		816.5 (26715)	24.07	23.46	22.17	19.07
	12RB-High (13)	846.5 (27015)	23.03	22.17	21.04	18.93
		831.5 (26865)	23.16	22.22	20.98	18.16
		816.5 (26715)	23.17	22.04	21.04	19.17
	12RB-Middle (6)	846.5 (27015)	23.13	22.19	21.02	18.73
		831.5 (26865)	23.11	22.15	20.93	18.51
		816.5 (26715)	23.26	22.24	21.21	18.36
	12RB-Low (0)	846.5 (27015)	23.12	22.16	21.02	18.12
		831.5 (26865)	23.11	22.17	21.03	18.91
		816.5 (26715)	23.28	22.25	21.13	18.38
	25RB (0)	846.5 (27015)	23.09	22.16	21.03	18.79
		831.5 (26865)	23.10	22.06	21.00	18.30
		816.5 (26715)	23.15	22.24	21.11	19.05

10MHz	1RB-High (49)	844 (26990)	24.00	23.42	22.13	19.80
		831.5 (26865)	23.93	23.59	22.10	19.43
		820 (26750)	24.07	23.44	22.15	20.07
	1RB-Middle (24)	844 (26990)	24.02	23.37	22.12	19.12
		831.5 (26865)	24.01	23.42	22.22	19.91
		820 (26750)	24.08	23.28	22.13	19.48
	1RB-Low (0)	844 (26990)	23.99	23.52	21.93	19.09
		831.5 (26865)	24.18	23.65	21.93	19.88
		820 (26750)	24.20	23.72	22.22	20.10
	25RB-High (25)	844 (26990)	23.13	22.16	21.00	18.73
		831.5 (26865)	23.14	22.11	21.10	19.14
		820 (26750)	23.15	22.21	21.15	18.35
	25RB-Middle (12)	844 (26990)	23.10	22.13	20.91	18.20
		831.5 (26865)	23.14	22.20	21.02	19.04
		820 (26750)	23.19	22.23	21.03	18.19
	25RB-Low (0)	844 (26990)	23.15	22.24	20.98	18.55
		831.5 (26865)	23.11	22.16	21.08	19.01
		820 (26750)	23.06	22.20	21.06	18.96
	50RB (0)	844 (26990)	23.11	22.17	20.86	18.71
		831.5 (26865)	23.08	22.15	20.99	18.28
		820 (26750)	23.16	22.21	21.12	18.46
15MHz	1RB-High (74)	841.5 (26965)	23.83	23.19	21.95	19.23
		831.5 (26865)	23.87	23.32	21.97	19.07
		822.5 (26775)	23.94	23.33	21.94	19.84
	1RB-Middle (37)	841.5 (26965)	23.97	23.30	21.89	19.19
		831.5 (26865)	23.90	23.26	21.97	19.00
		822.5 (26775)	23.89	23.26	22.10	18.99
	1RB-Low (0)	841.5 (26965)	23.94	23.31	22.07	19.44
		831.5 (26865)	23.92	23.42	22.01	19.62
		822.5 (26775)	23.99	23.44	22.02	19.97
	36RB-High (38)	841.5 (26965)	23.02	22.04	21.00	18.02
		831.5 (26865)	23.08	22.08	21.04	18.61
		822.5 (26775)	23.05	22.06	20.95	18.65
	36RB-Middle (19)	841.5 (26965)	23.09	22.03	20.94	18.39
		831.5 (26865)	22.99	21.94	20.89	18.29
		822.5 (26775)	23.03	22.06	20.93	18.73
	36RB-Low (0)	841.5 (26965)	22.98	22.01	20.89	18.58
		831.5 (26865)	22.97	22.01	20.95	18.27
		822.5 (26775)	23.11	22.03	20.95	18.28
	75RB (0)	841.5 (26965)	22.95	22.05	20.87	18.55
		831.5 (26865)	22.93	22.01	20.94	18.73
		822.5 (26775)	23.11	22.08	20.96	18.51

LTE B26 ANT0 DS15						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (27033)	20.25	20.59	20.56	20.36
		831.5 (26865)	20.28	20.67	20.64	20.43
		814.7 (26697)	20.34	20.25	20.21	20.48
	1RB-Middle (3)	848.3 (27033)	20.29	20.59	20.56	20.40
		831.5 (26865)	20.33	20.77	20.74	20.48
		814.7 (26697)	20.30	20.29	20.25	20.43
	1RB-Low (0)	848.3 (27033)	20.39	20.70	20.67	20.53
		831.5 (26865)	20.33	20.71	20.68	20.44
		814.7 (26697)	20.34	20.34	20.31	20.47
	3RB-High (3)	848.3 (27033)	20.35	20.43	20.39	20.47
		831.5 (26865)	20.44	20.42	20.39	20.58
		814.7 (26697)	20.43	20.45	20.41	20.54
	3RB-Middle (1)	848.3 (27033)	20.30	20.32	20.29	20.41
		831.5 (26865)	20.37	20.31	20.28	20.47
		814.7 (26697)	20.43	20.38	20.35	20.56
	3RB-Low (0)	848.3 (27033)	20.32	20.38	20.35	20.45
		831.5 (26865)	20.41	20.35	20.31	20.55
		814.7 (26697)	20.36	20.39	20.35	20.46
	6RB (0)	848.3 (27033)	20.29	20.28	20.24	20.42
		831.5 (26865)	20.39	20.35	20.31	20.54
		814.7 (26697)	20.43	20.41	20.38	20.58
3MHz	1RB-High (14)	847.5 (27025)	20.46	20.80	20.77	20.57
		831.5 (26865)	20.49	20.88	20.85	20.60
		815.5 (26705)	20.55	20.46	20.42	20.69
	1RB-Middle (7)	847.5 (27025)	20.50	20.81	20.77	20.62
		831.5 (26865)	20.54	20.98	20.95	20.69
		815.5 (26705)	20.51	20.50	20.46	20.66
	1RB-Low (0)	847.5 (27025)	20.60	20.92	20.89	20.73
		831.5 (26865)	20.54	20.93	20.89	20.65
		815.5 (26705)	20.56	20.55	20.52	20.67
	8RB-High (7)	847.5 (27025)	20.56	20.64	20.60	20.66
		831.5 (26865)	20.65	20.64	20.60	20.78
		815.5 (26705)	20.64	20.66	20.62	20.78
	8RB-Middle (4)	847.5 (27025)	20.51	20.53	20.50	20.65
		831.5 (26865)	20.58	20.52	20.49	20.73
		815.5 (26705)	20.64	20.59	20.56	20.76
	8RB-Low (0)	847.5 (27025)	20.53	20.59	20.56	20.63
		831.5 (26865)	20.62	20.56	20.52	20.76
		815.5 (26705)	20.57	20.60	20.56	20.71
	15RB (0)	847.5 (27025)	20.50	20.49	20.45	20.64
		831.5 (26865)	20.60	20.56	20.52	20.71
		815.5 (26705)	20.64	20.63	20.59	20.76
5MHz	1RB-High (24)	846.5 (27015)	20.49	20.83	20.80	20.59
		831.5 (26865)	20.52	20.91	20.88	20.63
		816.5 (26715)	20.58	20.49	20.45	20.73
	1RB-Middle (12)	846.5 (27015)	20.53	20.84	20.80	20.65
		831.5 (26865)	20.57	21.01	20.98	20.72
		816.5 (26715)	20.54	20.53	20.49	20.66
	1RB-Low (0)	846.5 (27015)	20.63	20.95	20.92	20.78
		831.5 (26865)	20.57	20.96	20.92	20.68
		816.5 (26715)	20.59	20.58	20.55	20.73
	12RB-High (13)	846.5 (27015)	20.59	20.67	20.63	20.69
		831.5 (26865)	20.68	20.67	20.63	20.79
		816.5 (26715)	20.67	20.69	20.65	20.79
	12RB-Middle (6)	846.5 (27015)	20.54	20.56	20.53	20.66
		831.5 (26865)	20.61	20.55	20.52	20.76
		816.5 (26715)	20.67	20.62	20.59	20.78
	12RB-Low (0)	846.5 (27015)	20.56	20.62	20.59	20.71
		831.5 (26865)	20.65	20.59	20.55	20.77
		816.5 (26715)	20.60	20.63	20.59	20.72
	25RB (0)	846.5 (27015)	20.53	20.52	20.48	20.63
		831.5 (26865)	20.63	20.59	20.55	20.76
		816.5 (26715)	20.67	20.66	20.62	20.81

10MHz	1RB-High (49)	844 (26990)	20.76	21.12	21.08	20.88
		831.5 (26865)	20.80	21.20	21.17	20.95
		820 (26750)	20.86	20.77	20.73	20.97
	1RB-Middle (24)	844 (26990)	20.81	21.12	21.09	20.92
		831.5 (26865)	20.85	21.30	21.27	21.00
		820 (26750)	20.82	20.80	20.77	20.94
	1RB-Low (0)	844 (26990)	20.91	21.23	21.20	21.05
		831.5 (26865)	20.85	21.24	21.21	20.98
		820 (26750)	20.87	20.86	20.83	21.01
	25RB-High (25)	844 (26990)	20.87	20.95	20.92	20.98
		831.5 (26865)	20.96	20.95	20.91	21.10
		820 (26750)	20.95	20.97	20.93	21.07
	25RB-Middle (12)	844 (26990)	20.82	20.84	20.81	20.94
		831.5 (26865)	20.89	20.83	20.79	21.01
		820 (26750)	20.95	20.90	20.87	21.09
	25RB-Low (0)	844 (26990)	20.84	20.90	20.87	20.99
		831.5 (26865)	20.93	20.87	20.83	21.03
		820 (26750)	20.88	20.91	20.87	20.99
	50RB (0)	844 (26990)	20.81	20.80	20.76	20.94
		831.5 (26865)	20.91	20.87	20.83	21.05
		820 (26750)	20.95	20.94	20.90	21.09
15MHz	1RB-High (74)	841.5 (26965)	20.80	21.16	21.12	20.91
		831.5 (26865)	20.84	21.24	21.21	20.95
		822.5 (26775)	20.90	20.81	20.77	21.03
	1RB-Middle (37)	841.5 (26965)	20.85	21.16	21.13	20.99
		831.5 (26865)	20.89	21.34	21.31	21.04
		822.5 (26775)	20.86	20.85	20.81	20.97
	1RB-Low (0)	841.5 (26965)	20.91	21.27	21.24	21.05
		831.5 (26865)	20.89	21.28	21.25	21.04
		822.5 (26775)	20.95	20.91	20.87	21.02
	36RB-High (38)	841.5 (26965)	20.91	20.99	20.96	21.03
		831.5 (26865)	20.97	20.99	20.95	21.12
		822.5 (26775)	20.99	21.01	20.97	21.13
	36RB-Middle (19)	841.5 (26965)	20.86	20.88	20.85	20.97
		831.5 (26865)	20.93	20.87	20.83	21.03
		822.5 (26775)	20.99	20.94	20.91	21.11
	36RB-Low (0)	841.5 (26965)	20.88	20.94	20.91	21.01
		831.5 (26865)	20.92	20.91	20.87	21.08
		822.5 (26775)	21.00	20.95	20.91	21.02
	75RB (0)	841.5 (26965)	20.85	20.84	20.80	21.00
		831.5 (26865)	20.95	20.91	20.87	21.08
		822.5 (26775)	20.99	20.98	20.94	21.10

LTE B30 ANT0 DS12/3/4/8						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2312.5 (27735)	23.66	23.02	22.14	19.16
		2310 (27710)	23.78	23.06	21.95	19.28
		2307.5 (27685)	23.71	23.00	21.98	19.31
	1RB-Middle (12)	2312.5 (27735)	23.75	23.05	22.08	19.75
		2310 (27710)	23.87	22.64	21.92	18.87
		2307.5 (27685)	23.83	23.20	22.18	19.43
	1RB-Low (0)	2312.5 (27735)	23.87	23.09	21.97	19.47
		2310 (27710)	23.77	23.17	21.98	19.27
		2307.5 (27685)	23.69	23.09	21.95	19.29
	12RB-High (13)	2312.5 (27735)	22.88	21.91	21.01	18.38
		2310 (27710)	22.75	21.86	20.93	18.75
		2307.5 (27685)	22.85	21.80	20.91	18.15
	12RB-Middle (6)	2312.5 (27735)	22.88	21.77	21.03	18.88
		2310 (27710)	22.78	21.83	20.91	17.98
		2307.5 (27685)	22.88	21.92	21.08	18.08
	12RB-Low (0)	2312.5 (27735)	22.73	21.75	20.87	18.13
		2310 (27710)	22.79	21.79	20.95	18.19
		2307.5 (27685)	22.74	21.72	20.98	17.94
	25RB (0)	2312.5 (27735)	22.85	21.90	20.92	18.25
		2310 (27710)	22.71	21.74	20.88	18.31
		2307.5 (27685)	22.81	21.85	21.02	18.01
10MHz	1RB-High (49)	2310 (27710)	23.76	23.17	22.30	19.56
	1RB-Middle (24)	2310 (27710)	23.82	23.05	22.37	19.42
	1RB-Low (0)	2310 (27710)	23.85	23.35	22.18	18.95
	25RB-High (25)	2310 (27710)	22.83	21.83	21.25	18.43
	25RB-Middle (12)	2310 (27710)	22.74	21.86	21.27	18.14
	25RB-Low (0)	2310 (27710)	22.80	21.90	21.22	18.60
	50RB (0)	2310 (27710)	22.77	21.87	21.23	18.07

LTE B30 ANT0 DS15						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2312.5 (27735)	17.49	17.82	17.90	17.62
		2310 (27710)	17.64	17.97	18.05	17.77
		2307.5 (27685)	17.75	18.08	18.16	17.90
	1RB-Middle (12)	2312.5 (27735)	17.55	17.89	17.91	17.65
		2310 (27710)	17.70	18.04	18.06	17.83
		2307.5 (27685)	17.81	18.15	18.17	17.93
	1RB-Low (0)	2312.5 (27735)	17.37	17.94	17.52	17.51
		2310 (27710)	17.52	18.09	17.67	17.64
		2307.5 (27685)	17.63	18.20	17.78	17.73
	12RB-High (13)	2312.5 (27735)	17.57	17.42	17.41	17.69
		2310 (27710)	17.72	17.57	17.56	17.85
		2307.5 (27685)	17.83	17.68	17.67	17.98
	12RB-Middle (6)	2312.5 (27735)	17.44	17.37	17.44	17.59
		2310 (27710)	17.59	17.52	17.59	17.73
		2307.5 (27685)	17.70	17.63	17.70	17.85
	12RB-Low (0)	2312.5 (27735)	17.57	17.58	17.56	17.67
		2310 (27710)	17.72	17.73	17.71	17.84
		2307.5 (27685)	17.83	17.84	17.82	17.94
	25RB (0)	2312.5 (27735)	17.51	17.52	17.53	17.64
		2310 (27710)	17.66	17.67	17.68	17.80
		2307.5 (27685)	17.77	17.78	17.79	17.89
10MHz	1RB-High (49)	2310 (27710)	17.62	17.95	18.03	17.74
	1RB-Middle (24)	2310 (27710)	17.50	18.02	18.04	17.82
	1RB-Low (0)	2310 (27710)	17.68	18.07	17.65	17.64
	25RB-High (25)	2310 (27710)	17.70	17.55	17.54	17.85
	25RB-Middle (12)	2310 (27710)	17.57	17.50	17.57	17.67
	25RB-Low (0)	2310 (27710)	17.68	17.71	17.69	17.80
	50RB (0)	2310 (27710)	17.64	17.65	17.66	17.77

LTE B30 ANT3 DS18						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2312.5 (27735)	23.66	23.02	22.14	19.16
		2310 (27710)	23.78	23.06	21.95	19.28
		2307.5 (27685)	23.71	23.00	21.98	19.31
	1RB-Middle (12)	2312.5 (27735)	23.75	23.05	22.08	19.75
		2310 (27710)	23.87	22.64	21.92	18.87
		2307.5 (27685)	23.83	23.20	22.18	19.43
	1RB-Low (0)	2312.5 (27735)	23.87	23.09	21.97	19.47
		2310 (27710)	23.77	23.17	21.98	19.27
		2307.5 (27685)	23.69	23.09	21.95	19.29
	12RB-High (13)	2312.5 (27735)	22.88	21.91	21.01	18.38
		2310 (27710)	22.75	21.86	20.93	18.75
		2307.5 (27685)	22.85	21.80	20.91	18.15
	12RB-Middle (6)	2312.5 (27735)	22.88	21.77	21.03	18.88
		2310 (27710)	22.78	21.83	20.91	17.98
		2307.5 (27685)	22.88	21.92	21.08	18.08
	12RB-Low (0)	2312.5 (27735)	22.73	21.75	20.87	18.13
		2310 (27710)	22.79	21.79	20.95	18.19
		2307.5 (27685)	22.74	21.72	20.98	17.94
	25RB (0)	2312.5 (27735)	22.85	21.90	20.92	18.25
		2310 (27710)	22.71	21.74	20.88	18.31
		2307.5 (27685)	22.81	21.85	21.02	18.01
10MHz	1RB-High (49)	2310 (27710)	23.76	23.17	22.30	19.56
	1RB-Middle (24)	2310 (27710)	23.82	23.05	22.37	19.42
	1RB-Low (0)	2310 (27710)	23.85	23.35	22.18	18.95
	25RB-High (25)	2310 (27710)	22.83	21.83	21.25	18.43
	25RB-Middle (12)	2310 (27710)	22.74	21.86	21.27	18.14
	25RB-Low (0)	2310 (27710)	22.80	21.90	21.22	18.60
	50RB (0)	2310 (27710)	22.77	21.87	21.23	18.07

LTE B30 ANT3 DS12						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2312.5 (27735)	19.26	19.40	19.63	19.39
		2310 (27710)	19.30	19.11	19.33	19.43
		2307.5 (27685)	19.32	19.09	19.32	19.42
	1RB-Middle (12)	2312.5 (27735)	19.23	19.44	19.67	19.33
		2310 (27710)	19.35	18.92	19.14	19.50
		2307.5 (27685)	19.25	18.99	19.21	19.39
	1RB-Low (0)	2312.5 (27735)	19.31	19.46	19.69	19.43
		2310 (27710)	19.31	19.04	19.26	19.46
		2307.5 (27685)	19.30	18.98	19.20	19.44
	12RB-High (13)	2312.5 (27735)	19.30	19.45	19.68	19.42
		2310 (27710)	19.32	19.41	19.64	19.42
		2307.5 (27685)	19.27	19.36	19.59	19.42
	12RB-Middle (6)	2312.5 (27735)	19.28	19.47	19.70	19.41
		2310 (27710)	19.31	19.35	19.58	19.43
		2307.5 (27685)	19.32	19.40	19.63	19.47
	12RB-Low (0)	2312.5 (27735)	19.25	19.40	19.63	19.38
		2310 (27710)	19.26	19.30	19.53	19.37
		2307.5 (27685)	19.17	19.26	19.48	19.27
	25RB (0)	2312.5 (27735)	19.22	19.33	19.56	19.32
		2310 (27710)	19.23	19.21	19.44	19.37
		2307.5 (27685)	19.28	19.30	19.53	19.39
10MHz	1RB-High (49)	2310 (27710)	19.16	19.13	19.43	19.28
	1RB-Middle (24)	2310 (27710)	19.06	19.27	19.19	19.29
	1RB-Low (0)	2310 (27710)	19.19	19.34	19.34	19.19
	25RB-High (25)	2310 (27710)	19.27	19.28	19.27	19.38
	25RB-Middle (12)	2310 (27710)	19.26	19.32	19.19	19.38
	25RB-Low (0)	2310 (27710)	19.16	19.34	19.22	19.29
	50RB (0)	2310 (27710)	19.21	19.21	19.24	19.34

LTE B30 ANT3 DS13						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2312.5 (27735)	20.79	20.90	21.17	20.92
		2310 (27710)	20.80	20.61	20.88	20.95
		2307.5 (27685)	20.74	20.60	20.87	20.88
	1RB-Middle (12)	2312.5 (27735)	20.78	20.94	21.21	20.90
		2310 (27710)	20.78	20.48	20.75	20.92
		2307.5 (27685)	20.62	20.52	20.79	20.77
	1RB-Low (0)	2312.5 (27735)	20.83	21.00	21.27	20.94
		2310 (27710)	20.78	20.92	20.79	20.91
		2307.5 (27685)	20.74	20.94	20.81	20.87
	12RB-High (13)	2312.5 (27735)	20.82	20.97	20.84	20.94
		2310 (27710)	20.84	20.93	20.80	20.96
		2307.5 (27685)	20.76	20.88	20.75	20.87
	12RB-Middle (6)	2312.5 (27735)	20.83	20.94	20.81	20.94
		2310 (27710)	20.79	20.86	20.73	20.90
		2307.5 (27685)	20.88	20.94	20.81	21.01
	12RB-Low (0)	2312.5 (27735)	20.77	20.92	20.79	20.91
		2310 (27710)	20.79	20.81	20.68	20.91
		2307.5 (27685)	20.69	20.78	20.65	20.79
	25RB (0)	2312.5 (27735)	20.76	20.82	20.70	20.87
		2310 (27710)	20.78	20.71	20.59	20.92
		2307.5 (27685)	20.79	20.82	20.70	20.90
10MHz	1RB-High (49)	2310 (27710)	20.72	20.47	21.10	20.82
	1RB-Middle (24)	2310 (27710)	20.78	20.49	21.08	21.01
	1RB-Low (0)	2310 (27710)	20.87	20.44	21.08	20.92
	25RB-High (25)	2310 (27710)	20.93	20.78	20.96	20.98
	25RB-Middle (12)	2310 (27710)	20.76	20.84	21.00	20.88
	25RB-Low (0)	2310 (27710)	20.86	20.78	20.91	21.06
	50RB (0)	2310 (27710)	20.88	20.65	20.90	21.00

LTE B41 PC2 ANT3 DS18						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	25.33	23.51	22.49	20.83
		2640.3(41093)	25.27	23.31	22.44	20.27
		2593 (40620)	24.96	23.31	22.17	20.56
		2545.8(40148)	24.65	22.73	21.89	20.65
		2498.5 (39675)	24.35	22.42	21.62	19.75
	1RB-Middle (12)	2687.5 (41565)	25.25	23.37	22.43	20.75
		2640.3(41093)	25.14	23.16	22.33	20.44
		2593 (40620)	24.73	23.01	21.96	20.63
		2545.8(40148)	24.55	22.70	21.81	20.35
		2498.5 (39675)	24.33	22.35	21.60	19.63
	1RB-Low (0)	2687.5 (41565)	25.33	23.48	22.50	20.83
		2640.3(41093)	25.14	23.21	22.32	20.74
		2593 (40620)	24.82	23.07	22.04	20.12
		2545.8(40148)	24.46	22.58	21.72	20.46
		2498.5 (39675)	24.36	22.35	21.64	20.06
	12RB-High (13)	2687.5 (41565)	23.77	22.12	20.58	19.37
		2640.3(41093)	23.70	22.13	20.52	19.60
		2593 (40620)	23.39	21.94	20.24	18.99
		2545.8(40148)	23.07	21.55	19.96	18.57
		2498.5 (39675)	22.89	21.30	19.91	18.19
	12RB-Middle (6)	2687.5 (41565)	23.76	22.19	20.57	18.76
		2640.3(41093)	23.74	22.14	20.56	19.74
		2593 (40620)	23.36	21.85	20.21	18.66
		2545.8(40148)	23.11	21.52	20.00	18.61
		2498.5 (39675)	22.97	21.36	19.97	18.37
	12RB-Low (0)	2687.5 (41565)	23.77	22.13	20.58	19.27
		2640.3(41093)	23.62	22.05	20.45	18.82
		2593 (40620)	23.36	21.82	20.22	19.26
		2545.8(40148)	23.06	21.44	19.94	18.46
		2498.5 (39675)	22.97	21.33	19.99	18.17
	25RB (0)	2687.5 (41565)	23.72	22.16	20.53	19.52
		2640.3(41093)	23.75	22.11	20.56	19.35
		2593 (40620)	23.35	21.81	20.21	18.45
		2545.8(40148)	23.12	21.50	20.00	18.52
		2498.5 (39675)	22.97	21.26	19.96	18.67
10MHz	1RB-High (49)	2685 (41540)	25.51	23.67	22.65	21.11
		2639(41080)	25.45	23.47	22.60	21.45
		2593 (40620)	25.14	23.48	22.32	20.34
		2547(40160)	24.83	22.89	22.05	20.13
		2501 (39700)	24.52	22.58	21.78	20.22
	1RB-Middle (24)	2685 (41540)	25.43	23.54	22.59	21.03
		2639(41080)	25.32	23.32	22.49	21.22
		2593 (40620)	24.91	23.18	22.12	20.11
		2547(40160)	24.73	22.86	21.96	20.33
		2501 (39700)	24.50	22.51	21.76	20.30
	1RB-Low (0)	2685 (41540)	25.51	23.64	22.66	21.41
		2639(41080)	25.32	23.37	22.48	21.12
		2593 (40620)	25.00	23.23	22.20	20.60
		2547(40160)	24.64	22.74	21.88	19.84
		2501 (39700)	24.54	22.51	21.79	20.24
	25RB-High (25)	2685 (41540)	23.94	22.28	20.73	19.24
		2639(41080)	23.87	22.29	20.66	19.67
		2593 (40620)	23.55	22.10	20.38	18.95
		2547(40160)	23.23	21.70	20.10	18.33
		2501 (39700)	23.05	21.46	20.05	18.15
	25RB-Middle (12)	2685 (41540)	23.93	22.35	20.71	19.33
		2639(41080)	23.91	22.30	20.70	19.81
		2593 (40620)	23.52	22.01	20.36	19.32
		2547(40160)	23.28	21.67	20.14	18.28
		2501 (39700)	23.13	21.51	20.11	18.93
	25RB-Low (0)	2685 (41540)	23.94	22.29	20.73	19.14
		2639(41080)	23.79	22.21	20.59	19.29
		2593 (40620)	23.53	21.98	20.36	19.13
		2547(40160)	23.22	21.59	20.09	18.22
		2501 (39700)	23.13	21.48	20.13	19.13
	50RB (0)	2685 (41540)	23.88	22.31	20.68	19.08
		2639(41080)	23.92	22.26	20.71	19.92
		2593 (40620)	23.52	21.97	20.35	18.92
		2547(40160)	23.28	21.65	20.14	19.08
		2501 (39700)	23.14	21.41	20.10	18.84

15MHz	1RB-High (74)	2682.5 (41515)	25.69	23.97	22.77	21.49
		2637.8(41068)	25.59	23.81	22.68	21.49
		2593 (40620)	25.34	23.41	22.46	20.44
		2548.3(40173)	25.02	23.34	22.17	20.42
		2503.5 (39725)	24.73	22.86	21.91	20.63
	1RB-Middle (37)	2682.5 (41515)	25.64	23.91	22.72	21.14
		2637.8(41068)	25.53	23.71	22.62	21.53
		2593 (40620)	25.17	23.31	22.30	20.47
		2548.3(40173)	24.92	23.19	22.08	20.62
		2503.5 (39725)	24.70	22.88	21.89	20.60
	1RB-Low (0)	2682.5 (41515)	25.74	24.03	22.81	21.24
		2637.8(41068)	25.57	23.75	22.66	21.27
		2593 (40620)	25.18	23.33	22.31	20.28
		2548.3(40173)	24.92	23.21	22.08	20.02
		2503.5 (39725)	24.68	23.02	21.87	20.18
	36RB-High (38)	2682.5 (41515)	23.62	22.62	20.93	19.02
		2637.8(41068)	23.52	22.59	20.84	19.12
		2593 (40620)	23.22	22.17	20.58	18.82
		2548.3(40173)	23.05	21.93	20.34	18.65
		2503.5 (39725)	23.02	21.73	20.14	19.02
	36RB-Middle (19)	2682.5 (41515)	23.62	22.59	20.93	19.22
		2637.8(41068)	23.56	22.63	20.88	19.26
		2593 (40620)	23.17	22.17	20.53	18.97
		2548.3(40173)	23.01	21.87	20.27	19.01
		2503.5 (39725)	23.01	21.76	20.12	18.91
	36RB-Low (0)	2682.5 (41515)	23.59	22.58	20.90	18.79
		2637.8(41068)	23.49	22.52	20.82	18.59
		2593 (40620)	23.12	22.14	20.49	18.32
		2548.3(40173)	23.07	21.88	20.27	18.67
		2503.5 (39725)	23.02	21.75	20.13	18.12
	75RB (0)	2682.5 (41515)	23.55	22.57	20.87	19.45
		2637.8(41068)	23.54	22.57	20.86	19.54
		2593 (40620)	23.16	22.19	20.52	18.76
		2548.3(40173)	23.02	21.91	20.25	18.12
		2503.5 (39725)	23.01	21.71	20.12	18.11
20MHz	1RB-High (99)	2680 (41490)	25.46	23.63	22.61	21.06
		2636.5(41055)	25.40	23.42	22.56	20.50
		2593 (40620)	25.09	23.43	22.28	20.19
		2549.5(40185)	24.78	22.85	22.01	20.18
		2506 (39750)	24.47	22.54	21.74	20.47
	1RB-Middle (50)	2680 (41490)	25.38	23.49	22.54	20.88
		2636.5(41055)	25.27	23.27	22.44	20.97
		2593 (40620)	24.86	23.13	22.08	20.46
		2549.5(40185)	24.68	22.81	21.92	20.18
		2506 (39750)	24.45	22.46	21.72	20.25
	1RB-Low (0)	2680 (41490)	25.46	23.60	22.61	20.96
		2636.5(41055)	25.27	23.33	22.44	21.27
		2593 (40620)	24.95	23.19	22.16	20.95
		2549.5(40185)	24.59	22.70	21.84	19.69
		2506 (39750)	24.49	22.47	21.75	20.39
	50RB-High (50)	2680 (41490)	23.89	22.24	20.68	19.49
		2636.5(41055)	23.82	22.25	20.62	19.22
		2593 (40620)	23.51	22.06	20.34	18.61
		2549.5(40185)	23.19	21.66	20.06	18.19
		2506 (39750)	23.00	21.41	20.01	18.90
	50RB-Middle (25)	2680 (41490)	23.90	22.30	20.67	19.58
		2636.5(41055)	23.87	22.25	20.66	19.17
		2593 (40620)	23.48	21.96	20.32	18.98
		2549.5(40185)	23.23	21.63	20.10	19.03
		2506 (39750)	23.08	21.47	20.07	18.98
	50RB-Low (0)	2680 (41490)	23.88	22.25	20.69	19.10
		2636.5(41055)	23.74	22.16	20.55	19.74
		2593 (40620)	23.48	21.94	20.32	18.68
		2549.5(40185)	23.17	21.55	20.05	18.77
		2506 (39750)	23.09	21.44	20.09	18.39
	100RB (0)	2680 (41490)	23.84	22.27	20.64	19.24
		2636.5(41055)	23.87	22.22	20.66	19.47
		2593 (40620)	23.47	21.93	20.31	18.87
		2549.5(40185)	23.24	21.61	20.10	18.24
		2506 (39750)	23.09	21.37	20.06	18.99

LTE B41 PC3 ANT3 DS18						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	24.75	23.92	23.78	19.85
		2640.3(41093)	24.73	23.78	23.59	20.23
		2593 (40620)	24.15	23.36	23.06	19.35
		2545.8(40148)	24.42	23.37	23.25	20.32
		2498.5 (39675)	23.94	23.06	22.93	19.34
	1RB-Middle (12)	2687.5 (41565)	24.76	23.90	23.68	20.26
		2640.3(41093)	24.92	23.78	23.55	20.42
		2593 (40620)	24.04	23.29	23.06	19.24
		2545.8(40148)	24.54	23.36	23.18	19.84
		2498.5 (39675)	24.14	23.11	22.84	19.34
	1RB-Low (0)	2687.5 (41565)	24.71	23.83	23.77	20.21
		2640.3(41093)	24.59	23.66	23.57	20.49
		2593 (40620)	24.10	23.25	23.11	19.60
		2545.8(40148)	24.19	23.31	23.13	19.29
		2498.5 (39675)	24.01	23.14	22.97	19.31
10MHz	12RB-High (13)	2687.5 (41565)	23.84	22.75	22.81	18.94
		2640.3(41093)	23.70	22.67	22.71	18.90
		2593 (40620)	23.15	22.12	22.11	18.85
		2545.8(40148)	22.74	22.37	22.31	17.84
		2498.5 (39675)	22.94	21.89	21.97	18.54
	12RB-Middle (6)	2687.5 (41565)	23.84	22.83	22.87	19.64
		2640.3(41093)	23.68	22.61	22.64	19.08
		2593 (40620)	23.18	22.15	21.20	19.18
		2545.8(40148)	23.33	22.34	22.35	18.83
		2498.5 (39675)	22.94	22.01	21.96	18.94
	12RB-Low (0)	2687.5 (41565)	23.84	22.74	22.83	19.44
		2640.3(41093)	23.60	22.58	22.60	18.90
		2593 (40620)	23.20	22.19	22.14	18.40
		2545.8(40148)	23.29	22.29	22.30	19.09
		2498.5 (39675)	22.98	22.02	21.96	18.58
	25RB (0)	2687.5 (41565)	23.84	22.86	22.79	18.94
		2640.3(41093)	23.67	22.65	22.60	19.07
		2593 (40620)	23.05	22.09	22.15	18.45
		2545.8(40148)	23.32	22.34	22.29	18.92
		2498.5 (39675)	23.04	21.98	21.94	18.04
20MHz	1RB-High (49)	2685 (41540)	24.79	23.92	23.68	20.49
		2639(41080)	24.71	23.81	22.33	19.71
		2593 (40620)	24.19	23.32	21.81	19.49
		2547(40160)	24.29	23.34	22.11	19.59
		2501 (39700)	23.83	22.94	21.54	19.73
	1RB-Middle (24)	2685 (41540)	24.81	24.00	23.75	20.51
		2639(41080)	24.61	23.76	22.38	20.11
		2593 (40620)	24.18	23.35	21.92	19.68
		2547(40160)	24.28	23.38	22.14	19.68
		2501 (39700)	23.87	22.95	21.65	19.27
	1RB-Low (0)	2685 (41540)	24.99	24.08	23.82	20.29
		2639(41080)	24.66	23.80	22.29	19.86
		2593 (40620)	24.31	23.46	21.90	20.01
		2547(40160)	24.26	23.37	22.02	19.76
		2501 (39700)	23.97	23.07	21.75	19.67
	25RB-High (25)	2685 (41540)	23.90	22.96	22.81	19.90
		2639(41080)	23.77	22.81	21.75	18.97
		2593 (40620)	23.29	22.31	21.24	19.19
		2547(40160)	23.24	22.24	21.42	19.04
		2501 (39700)	22.88	21.91	20.98	17.88
	25RB-Middle (12)	2685 (41540)	23.87	22.95	22.93	19.57
		2639(41080)	23.69	22.73	21.73	18.69
		2593 (40620)	23.34	22.35	21.33	18.34
		2547(40160)	23.28	22.30	21.50	19.08
		2501 (39700)	22.97	21.97	21.08	18.87
	25RB-Low (0)	2685 (41540)	23.86	22.93	21.84	19.26
		2639(41080)	23.61	22.69	21.68	19.01
		2593 (40620)	23.28	22.32	21.26	18.68
		2547(40160)	23.28	22.31	21.38	18.98
		2501 (39700)	22.96	21.99	21.05	18.16
	50RB (0)	2685 (41540)	23.90	22.93	21.79	19.90
		2639(41080)	23.69	22.74	21.73	19.39
		2593 (40620)	23.33	22.39	21.22	18.63
		2547(40160)	23.22	22.29	21.34	18.42
		2501 (39700)	22.93	21.97	20.99	17.93

15MHz	1RB-High (74)	2682.5 (41515)	24.67	23.79	23.58	20.27
		2637.8(41068)	24.61	23.69	23.43	19.91
		2593 (40620)	24.04	23.16	22.92	19.14
		2548.3(40173)	24.22	23.40	23.11	20.12
		2503.5 (39725)	23.72	22.77	22.54	19.12
	1RB-Middle (37)	2682.5 (41515)	24.71	23.79	23.61	20.61
		2637.8(41068)	24.48	23.61	23.37	19.88
		2593 (40620)	24.00	23.16	22.84	19.50
		2548.3(40173)	24.20	23.28	23.08	20.20
		2503.5 (39725)	23.64	22.81	22.57	19.44
	1RB-Low (0)	2682.5 (41515)	24.80	23.95	23.73	20.10
		2637.8(41068)	24.49	23.63	23.38	20.49
		2593 (40620)	24.15	23.26	23.06	19.25
		2548.3(40173)	24.18	23.30	23.05	19.38
		2503.5 (39725)	23.80	22.89	22.65	18.90
	36RB-High (38)	2682.5 (41515)	23.73	22.70	22.76	18.83
		2637.8(41068)	23.70	22.65	22.62	18.70
		2593 (40620)	23.11	22.12	22.08	18.61
		2548.3(40173)	23.31	22.31	22.32	18.81
		2503.5 (39725)	22.81	21.80	21.81	18.81
	36RB-Middle (19)	2682.5 (41515)	23.78	22.77	22.77	18.78
		2637.8(41068)	23.69	22.62	22.64	18.89
		2593 (40620)	23.14	22.15	22.12	18.34
		2548.3(40173)	23.30	22.32	22.28	18.60
		2503.5 (39725)	22.86	21.80	21.85	18.76
	36RB-Low (0)	2682.5 (41515)	23.76	22.73	22.75	19.46
		2637.8(41068)	23.61	22.49	22.53	18.61
		2593 (40620)	23.23	22.13	22.16	18.73
		2548.3(40173)	23.33	22.24	22.27	19.13
		2503.5 (39725)	22.83	21.80	21.84	18.83
	75RB (0)	2682.5 (41515)	23.74	22.79	22.75	19.34
		2637.8(41068)	23.65	22.67	22.66	19.25
		2593 (40620)	23.16	22.20	22.10	18.66
		2548.3(40173)	23.36	22.34	22.34	18.56
		2503.5 (39725)	22.87	21.87	21.89	18.47
20MHz	1RB-High (99)	2680 (41490)	24.59	23.82	23.59	20.09
		2636.5(41055)	24.84	23.72	23.46	20.40
		2593 (40620)	24.02	23.14	22.89	19.52
		2549.5(40185)	24.20	23.33	23.03	19.80
		2506 (39750)	23.60	22.80	22.53	18.87
	1RB-Middle (50)	2680 (41490)	24.61	23.80	23.59	19.91
		2636.5(41055)	24.48	23.58	23.38	19.48
		2593 (40620)	23.97	23.11	22.82	19.27
		2549.5(40185)	24.15	23.27	23.03	20.05
		2506 (39750)	23.69	22.75	22.52	19.69
	1RB-Low (0)	2680 (41490)	24.67	24.00	23.81	19.94
		2636.5(41055)	24.48	23.60	23.35	19.58
		2593 (40620)	24.19	23.28	23.06	19.19
		2549.5(40185)	24.06	23.21	22.97	19.86
		2506 (39750)	23.76	22.88	22.67	19.36
	50RB-High (50)	2680 (41490)	23.72	22.81	22.74	18.72
		2636.5(41055)	23.62	22.68	22.60	19.52
		2593 (40620)	23.11	22.15	22.09	18.91
		2549.5(40185)	23.34	22.37	22.30	18.74
		2506 (39750)	22.73	21.75	21.74	18.53
	50RB-Middle (25)	2680 (41490)	23.62	22.85	22.78	19.00
		2636.5(41055)	23.80	22.67	22.60	19.12
		2593 (40620)	23.12	22.15	22.09	18.62
		2549.5(40185)	23.30	22.34	22.26	18.40
		2506 (39750)	22.83	21.84	21.77	17.93
	50RB-Low (0)	2680 (41490)	23.77	22.85	22.80	19.77
		2636.5(41055)	23.52	22.57	22.47	18.72
		2593 (40620)	23.15	22.23	22.13	18.65
		2549.5(40185)	23.27	22.32	22.22	18.47
		2506 (39750)	22.83	21.89	21.79	17.93
	100RB (0)	2680 (41490)	23.73	22.81	22.81	18.93
		2636.5(41055)	23.63	22.70	22.73	19.53
		2593 (40620)	23.15	22.21	22.24	18.55
		2549.5(40185)	23.30	22.37	22.38	19.20
		2506 (39750)	22.79	21.85	21.82	17.99

LTE B41 ANT3 DS12						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2687.5 (41565)	15.94	16.12	16.10	16.08
		2640.3(41093)	16.10	16.14	16.12	16.24
		2593 (40620)	15.93	16.15	16.13	16.06
		2545.8(40148)	15.50	15.59	15.58	15.60
		2498.5 (39675)	15.30	15.33	15.31	15.42
		2687.5 (41565)	15.85	16.08	16.06	15.99
	1RB-Middle (12)	2640.3(41093)	15.95	16.04	16.02	16.08
		2593 (40620)	15.68	15.93	15.91	15.83
		2545.8(40148)	15.38	15.53	15.52	15.50
		2498.5 (39675)	15.20	15.32	15.30	15.32
		2687.5 (41565)	16.01	16.13	16.11	16.13
	1RB-Low (0)	2640.3(41093)	16.04	16.10	16.08	16.16
		2593 (40620)	15.73	15.89	15.87	15.86
		2545.8(40148)	15.34	15.45	15.43	15.46
		2498.5 (39675)	15.29	15.30	15.28	15.39
		2687.5 (41565)	16.05	16.03	16.01	16.20
	12RB-High (13)	2640.3(41093)	16.10	16.14	16.12	16.22
		2593 (40620)	15.96	15.99	15.97	16.09
		2545.8(40148)	15.62	15.58	15.56	15.76
		2498.5 (39675)	15.32	15.42	15.40	15.47
		2687.5 (41565)	16.10	16.10	16.08	16.22
		2640.3(41093)	16.09	16.13	16.11	16.22
	12RB-Middle (6)	2593 (40620)	15.88	15.96	15.94	15.99
		2545.8(40148)	15.58	15.56	15.54	15.69
		2498.5 (39675)	15.32	15.38	15.36	15.45
		2687.5 (41565)	16.03	16.03	16.01	16.16
		2640.3(41093)	16.01	16.07	16.05	16.15
		2593 (40620)	15.86	15.92	15.90	15.97
	12RB-Low (0)	2545.8(40148)	15.52	15.53	15.51	15.65
		2498.5 (39675)	15.39	15.47	15.45	15.54
		2687.5 (41565)	16.07	16.12	16.10	16.19
		2640.3(41093)	16.13	16.15	16.13	16.25
		2593 (40620)	15.90	15.90	15.88	16.01
	25RB (0)	2545.8(40148)	15.55	15.58	15.56	15.70
		2498.5 (39675)	15.32	15.38	15.36	15.43
10MHz	1RB-High (49)	2685 (41540)	15.99	16.17	16.15	16.11
		2639(41080)	16.15	16.19	16.17	16.25
		2593 (40620)	15.98	16.20	16.18	16.11
		2547(40160)	15.54	15.64	15.62	15.64
		2501 (39700)	15.34	15.38	15.36	15.49
	1RB-Middle (24)	2685 (41540)	15.90	16.13	16.11	16.05
		2639(41080)	16.00	16.09	16.07	16.12
		2593 (40620)	15.73	15.98	15.96	15.86
		2547(40160)	15.43	15.58	15.56	15.57
		2501 (39700)	15.25	15.37	15.35	15.36
	1RB-Low (0)	2685 (41540)	16.06	16.18	16.16	16.19
		2639(41080)	16.09	16.15	16.13	16.24
		2593 (40620)	15.78	15.94	15.92	15.90
		2547(40160)	15.38	15.49	15.47	15.49
		2501 (39700)	15.34	15.35	15.33	15.49
	25RB-High (25)	2685 (41540)	16.10	16.08	16.06	16.23
		2639(41080)	16.15	16.19	16.17	16.28
		2593 (40620)	16.01	16.04	16.02	16.13
		2547(40160)	15.67	15.63	15.61	15.81
		2501 (39700)	15.37	15.47	15.45	15.49
	25RB-Middle (12)	2685 (41540)	16.15	16.15	16.13	16.25
		2639(41080)	16.14	16.18	16.16	16.29
		2593 (40620)	15.93	16.01	15.99	16.04
		2547(40160)	15.63	15.61	15.59	15.77
		2501 (39700)	15.37	15.43	15.41	15.47
	25RB-Low (0)	2685 (41540)	16.08	16.08	16.06	16.18
		2639(41080)	16.06	16.12	16.10	16.19
		2593 (40620)	15.91	15.97	15.95	16.05
		2547(40160)	15.57	15.58	15.56	15.69
		2501 (39700)	15.44	15.52	15.50	15.57
	50RB (0)	2685 (41540)	16.12	16.18	16.16	16.23
		2639(41080)	16.18	16.20	16.18	16.28
		2593 (40620)	15.95	15.95	15.93	16.09
		2547(40160)	15.60	15.63	15.61	15.75
		2501 (39700)	15.37	15.42	15.40	15.52

15MHz	1RB-High (74)	2682.5 (41515)	15.91	15.87	15.94	16.05
		2637.8(41068)	15.97	16.01	16.08	16.12
		2593 (40620)	15.83	15.77	15.84	15.93
		2548.3(40173)	15.51	15.39	15.45	15.61
		2503.5 (39725)	15.21	15.27	15.34	15.36
	1RB-Middle (37)	2682.5 (41515)	15.87	15.81	15.87	15.99
		2637.8(41068)	15.86	15.92	15.99	15.99
		2593 (40620)	15.63	15.48	15.55	15.73
		2548.3(40173)	15.38	15.33	15.39	15.50
		2503.5 (39725)	15.17	15.22	15.29	15.29
	1RB-Low (0)	2682.5 (41515)	16.01	15.94	16.01	16.12
		2637.8(41068)	15.94	15.99	16.06	16.06
		2593 (40620)	15.71	15.65	15.71	15.83
		2548.3(40173)	15.45	15.40	15.46	15.59
		2503.5 (39725)	15.23	15.24	15.30	15.38
	36RB-High (38)	2682.5 (41515)	15.96	16.00	16.07	16.11
		2637.8(41068)	16.04	16.07	16.14	16.14
		2593 (40620)	15.89	15.91	15.98	16.00
		2548.3(40173)	15.54	15.53	15.59	15.68
		2503.5 (39725)	15.35	15.36	15.43	15.47
	36RB-Middle (19)	2682.5 (41515)	15.93	15.93	16.00	16.06
		2637.8(41068)	16.03	16.04	16.11	16.15
		2593 (40620)	15.82	15.85	15.92	15.95
		2548.3(40173)	15.48	15.48	15.55	15.59
		2503.5 (39725)	15.35	15.38	15.45	15.45
	36RB-Low (0)	2682.5 (41515)	15.92	15.93	16.00	16.07
		2637.8(41068)	15.93	15.98	16.05	16.04
		2593 (40620)	15.79	15.86	15.93	15.92
		2548.3(40173)	15.52	15.50	15.56	15.64
		2503.5 (39725)	15.32	15.32	15.39	15.42
	75RB (0)	2682.5 (41515)	15.89	15.91	15.98	15.99
		2637.8(41068)	16.01	16.06	16.13	16.16
		2593 (40620)	15.81	15.87	15.94	15.94
		2548.3(40173)	15.51	15.51	15.58	15.63
		2503.5 (39725)	15.32	15.38	15.44	15.42
20MHz	1RB-High (99)	2680 (41490)	15.89	16.07	16.05	15.99
		2636.5(41055)	16.05	16.09	16.07	16.19
		2593 (40620)	15.88	16.10	16.08	16.02
		2549.5(40185)	15.45	15.55	15.53	15.56
		2506 (39750)	15.25	15.28	15.26	15.38
	1RB-Middle (50)	2680 (41490)	15.80	16.03	16.01	15.93
		2636.5(41055)	15.90	15.99	15.97	16.00
		2593 (40620)	15.63	15.88	15.86	15.75
		2549.5(40185)	15.33	15.49	15.47	15.44
		2506 (39750)	15.15	15.27	15.25	15.30
	1RB-Low (0)	2680 (41490)	15.99	16.08	16.06	16.10
		2636.5(41055)	15.96	16.05	16.03	16.13
		2593 (40620)	15.68	15.84	15.82	15.82
		2549.5(40185)	15.29	15.40	15.38	15.40
		2506 (39750)	15.24	15.25	15.23	15.35
	50RB-High (50)	2680 (41490)	16.00	15.98	15.96	16.10
		2636.5(41055)	16.05	16.09	16.07	16.20
		2593 (40620)	15.91	15.94	15.92	16.02
		2549.5(40185)	15.57	15.53	15.51	15.71
		2506 (39750)	15.28	15.37	15.35	15.43
	50RB-Middle (25)	2680 (41490)	16.05	16.05	16.03	16.15
		2636.5(41055)	16.04	16.08	16.06	16.16
		2593 (40620)	15.83	15.91	15.89	15.93
		2549.5(40185)	15.53	15.51	15.49	15.65
		2506 (39750)	15.27	15.34	15.32	15.41
	50RB-Low (0)	2680 (41490)	15.98	15.98	15.96	16.11
		2636.5(41055)	15.96	16.02	16.00	16.10
		2593 (40620)	15.81	15.87	15.85	15.96
		2549.5(40185)	15.47	15.48	15.46	15.61
		2506 (39750)	15.34	15.42	15.40	15.49
	100RB (0)	2680 (41490)	16.01	16.07	16.05	16.13
		2636.5(41055)	16.08	16.10	16.08	16.21
		2593 (40620)	15.85	15.85	15.83	15.96
		2549.5(40185)	15.50	15.53	15.51	15.65
		2506 (39750)	15.27	15.33	15.31	15.40

LTE B48 ANT4 DS18						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	56715	23.15	22.35	20.85	18.75
		55990	23.31	22.39	21.06	18.61
		55265	23.36	22.43	20.99	18.86
	1RB-Middle (12)	56715	23.32	22.23	20.53	18.42
		55990	23.23	22.43	20.79	19.03
		55265	23.19	22.34	20.86	19.09
	1RB-Low (0)	56715	23.03	22.12	20.64	18.83
		55990	23.24	22.40	20.89	18.74
		55265	23.25	22.28	20.94	18.65
	12RB-High (13)	56715	22.12	21.09	19.94	18.12
		55990	22.27	21.18	20.20	17.87
		55265	22.27	21.24	20.32	17.67
	12RB-Middle (6)	56715	22.13	21.09	19.88	18.03
		55990	22.33	21.28	20.14	18.03
		55265	22.32	21.28	20.26	18.02
	12RB-Low (0)	56715	22.09	21.02	19.88	17.79
		55990	22.29	21.20	20.13	17.89
		55265	22.26	21.22	20.25	17.36
	25RB (0)	56715	22.09	21.07	19.87	17.09
		55990	22.25	21.28	20.14	17.35
		55265	22.27	21.28	20.27	17.47
10MHz	1RB-High (49)	56690	23.09	22.20	20.77	18.09
		55990	23.27	22.40	20.98	18.97
		55290	23.31	22.40	21.02	18.91
	1RB-Middle (24)	56690	23.13	22.16	20.56	18.73
		55990	23.27	22.36	20.83	18.57
		55290	23.23	22.34	20.97	19.03
	1RB-Low (0)	56690	23.14	22.25	20.57	18.34
		55990	23.30	22.42	20.83	19.10
		55290	23.31	22.42	20.94	18.51
	25RB-High (25)	56690	22.13	21.16	20.05	18.13
		55990	22.33	21.31	20.34	17.93
		55290	22.34	21.32	20.38	17.34
	25RB-Middle (12)	56690	22.15	21.17	19.97	17.35
		55990	22.32	21.36	20.21	18.22
		55290	22.34	21.33	20.36	17.44
	25RB-Low (0)	56690	22.10	21.16	19.99	18.10
		55990	22.26	21.31	20.23	17.76
		55290	22.31	21.31	20.34	18.11
	50RB (0)	56690	22.15	21.15	19.96	17.35
		55990	22.32	21.37	20.22	18.02
		55290	22.33	21.35	20.35	17.33

15MHz	1RB-High (74)	56665	23.02	22.11	20.62	19.02
		55990	23.05	22.21	20.81	18.35
		55315	23.14	22.22	20.80	18.24
	1RB-Middle (37)	56665	22.92	22.05	20.59	18.92
		55990	23.09	22.17	20.74	18.19
		55315	23.07	22.18	20.73	18.87
	1RB-Low (0)	56665	22.96	22.07	20.64	18.46
		55990	23.09	22.18	20.71	18.09
		55315	23.06	22.20	20.77	18.56
	36RB-High (38)	56665	22.06	21.06	20.05	17.16
		55990	22.25	21.21	20.25	17.45
		55315	22.26	21.17	20.17	17.86
	36RB-Middle (19)	56665	22.06	21.04	20.01	17.86
		55990	22.22	21.19	20.21	18.02
		55315	22.20	21.15	20.18	18.00
	36RB-Low (0)	56665	22.09	21.02	20.01	17.99
		55990	22.14	21.09	20.08	17.24
		55315	22.18	21.11	20.15	17.68
	75RB (0)	56665	22.06	21.05	20.04	17.36
		55990	22.15	21.15	20.12	18.05
		55315	22.22	21.24	20.19	17.52
20MHz	1RB-High (99)	56640	22.92	22.27	21.03	18.42
		55990	23.07	22.40	21.15	18.47
		55340	23.20	22.61	21.39	18.34
	1RB-Middle (50)	56640	22.91	22.22	21.01	18.51
		55990	23.08	22.38	21.17	18.08
		55340	23.18	22.48	21.26	18.78
	1RB-Low (0)	56640	22.97	22.38	21.07	18.17
		55990	23.24	22.47	21.20	19.08
		55340	23.18	22.54	21.29	18.60
	50RB-High (50)	56640	22.09	21.12	20.15	17.99
		55990	22.27	21.28	20.28	17.77
		55340	22.29	21.42	20.51	17.68
	50RB-Middle (25)	56640	22.10	21.16	20.17	17.20
		55990	22.30	21.31	20.35	17.40
		55340	22.33	21.41	20.48	17.83
	50RB-Low (0)	56640	22.10	21.17	20.11	17.10
		55990	22.38	21.28	20.30	17.59
		55340	22.31	21.34	20.39	17.41
	100RB (0)	56640	22.08	21.09	20.09	17.18
		55990	22.29	21.32	20.28	17.59
		55340	22.37	21.39	20.44	18.27

LTE B48 ANT4 DS12						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	56715	16.84	16.98	16.71	16.96
		55990	16.74	17.08	16.81	16.84
		55265	16.42	16.69	16.43	16.56
	1RB-Middle (12)	56715	16.80	16.93	16.67	16.91
		55990	16.65	17.04	16.78	16.79
		55265	16.37	16.67	16.41	16.52
	1RB-Low (0)	56715	16.86	16.95	16.68	16.96
		55990	16.66	17.03	16.76	16.79
		55265	16.44	16.72	16.46	16.59
	12RB-High (13)	56715	16.91	16.93	16.66	17.06
		55990	16.76	16.81	16.54	16.86
		55265	16.55	16.52	16.26	16.69
	12RB-Middle (6)	56715	16.89	16.95	16.68	16.99
		55990	16.74	16.79	16.52	16.88
		55265	16.53	16.50	16.24	16.65
	12RB-Low (0)	56715	16.87	16.92	16.66	17.02
		55990	16.69	16.75	16.48	16.79
		55265	16.51	16.55	16.29	16.63
	25RB (0)	56715	16.88	16.91	16.64	17.02
		55990	16.75	16.78	16.52	16.89
		55265	16.54	16.54	16.28	16.66
10MHz	1RB-High (49)	56690	16.77	16.91	16.64	16.87
		55990	16.67	17.01	16.74	16.82
		55290	16.35	16.62	16.36	16.49
	1RB-Middle (24)	56690	16.73	16.86	16.60	16.85
		55990	16.58	16.97	16.71	16.70
		55290	16.30	16.60	16.34	16.43
	1RB-Low (0)	56690	16.79	16.88	16.61	16.93
		55990	16.59	16.96	16.69	16.74
		55290	16.37	16.65	16.39	16.49
	25RB-High (25)	56690	16.84	16.86	16.59	16.94
		55990	16.69	16.74	16.47	16.82
		55290	16.48	16.45	16.19	16.59
	25RB-Middle (12)	56690	16.82	16.88	16.61	16.95
		55990	16.67	16.72	16.45	16.77
		55290	16.46	16.44	16.18	16.57
	25RB-Low (0)	56690	16.80	16.85	16.59	16.95
		55990	16.62	16.68	16.41	16.77
		55290	16.44	16.48	16.22	16.55
	50RB (0)	56690	16.81	16.83	16.57	16.94
		55990	16.68	16.71	16.45	16.82
		55290	16.47	16.47	16.21	16.60

15MHz	1RB-High (74)	56665	16.73	17.01	17.13	16.84
		55990	16.68	17.09	17.21	16.81
		55315	16.41	16.68	16.80	16.51
	1RB-Middle (37)	56665	16.73	17.07	17.19	16.84
		55990	16.68	17.06	17.18	16.78
		55315	16.41	16.75	16.87	16.52
	1RB-Low (0)	56665	16.71	17.12	17.24	16.82
		55990	16.64	17.07	17.19	16.78
		55315	16.36	16.79	16.91	16.47
	36RB-High (38)	56665	16.98	17.03	17.15	17.09
		55990	16.83	16.82	16.94	16.96
		55315	16.56	16.61	16.73	16.71
	36RB-Middle (19)	56665	16.93	16.97	17.09	17.08
		55990	16.79	16.75	16.87	16.90
		55315	16.57	16.60	16.72	16.67
	36RB-Low (0)	56665	16.96	16.99	17.11	17.09
		55990	16.75	16.75	16.87	16.90
		55315	16.53	16.63	16.75	16.68
	75RB (0)	56665	16.96	16.96	17.08	17.10
		55990	16.74	16.78	16.89	16.86
		55315	16.55	16.57	16.69	16.65
20MHz	1RB-High (99)	56640	16.92	17.06	16.79	17.07
		55990	16.82	17.16	16.89	16.93
		55340	16.50	16.77	16.50	16.65
	1RB-Middle (50)	56640	16.88	17.01	16.74	17.00
		55990	16.73	17.13	16.86	16.84
		55340	16.44	16.75	16.49	16.56
	1RB-Low (0)	56640	16.74	17.03	16.76	17.08
		55990	16.94	17.11	16.84	16.86
		55340	16.52	16.80	16.54	16.66
	50RB-High (50)	56640	16.98	17.01	16.74	17.14
		55990	16.84	16.89	16.62	16.94
		55340	16.63	16.60	16.34	16.74
	50RB-Middle (25)	56640	16.82	17.03	16.76	17.10
		55990	16.99	16.87	16.60	16.92
		55340	16.61	16.58	16.32	16.71
	50RB-Low (0)	56640	16.76	17.00	16.74	17.08
		55990	16.95	16.83	16.56	16.86
		55340	16.58	16.63	16.36	16.70
	100RB (0)	56640	16.96	16.99	16.72	17.06
		55990	16.83	16.86	16.60	16.97
		55340	16.62	16.62	16.36	16.76

LTE B48 ANT4 DS13						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	56715	19.72	19.97	20.10	19.87
		55990	19.67	19.65	20.00	19.82
		55265	19.43	19.28	19.63	19.57
	1RB-Middle (12)	56715	19.75	20.00	20.00	19.89
		55990	19.53	19.62	19.97	19.66
		55265	19.40	19.25	19.60	19.50
	1RB-Low (0)	56715	19.79	20.10	20.10	19.94
		55990	19.61	19.96	20.02	19.71
		55265	19.47	19.59	19.64	19.60
	12RB-High (13)	56715	19.99	20.03	20.09	20.10
		55990	19.79	19.82	19.88	19.93
		55265	19.52	19.54	19.59	19.64
	12RB-Middle (6)	56715	19.98	20.01	20.37	20.11
		55990	19.76	19.80	20.16	19.90
		55265	19.56	19.55	19.90	19.66
	12RB-Low (0)	56715	19.92	20.00	20.10	20.05
		55990	19.74	19.76	20.12	19.89
		55265	19.48	19.53	19.88	19.61
	25RB (0)	56715	19.93	19.94	20.30	20.04
		55990	19.79	19.78	20.13	19.94
		55265	19.54	19.55	19.91	19.66
10MHz	1RB-High (49)	56690	19.80	20.05	20.10	19.90
		55990	19.75	19.73	20.08	19.89
		55290	19.51	19.36	19.71	19.62
	1RB-Middle (24)	56690	19.83	20.08	20.44	19.94
		55990	19.61	19.70	20.05	19.72
		55290	19.48	19.33	19.68	19.59
	1RB-Low (0)	56690	19.87	20.34	20.41	20.02
		55990	19.69	20.04	20.10	19.79
		55290	19.55	19.67	19.72	19.70
	25RB-High (25)	56690	20.07	20.11	20.18	20.19
		55990	19.87	19.90	19.96	20.01
		55290	19.60	19.62	19.67	19.73
	25RB-Middle (12)	56690	20.06	20.09	20.45	20.20
		55990	19.84	19.88	20.24	19.94
		55290	19.64	19.63	19.98	19.78
	25RB-Low (0)	56690	20.00	20.08	20.44	20.11
		55990	19.82	19.84	20.20	19.95
		55290	19.56	19.61	19.96	19.67
	50RB (0)	56690	20.01	20.02	20.38	20.15
		55990	19.87	19.86	20.21	19.97
		55290	19.62	19.63	19.99	19.73

15MHz	1RB-High (74)	56665	19.79	20.06	20.32	19.91
		55990	19.65	19.72	19.98	19.80
		55315	19.31	19.38	19.64	19.45
	1RB-Middle (37)	56665	19.83	19.99	20.26	19.93
		55990	19.60	19.68	19.94	19.74
		55315	19.27	19.38	19.64	19.40
	1RB-Low (0)	56665	19.82	19.99	20.25	19.94
		55990	19.60	19.71	19.97	19.71
		55315	19.33	19.42	19.67	19.45
	36RB-High (38)	56665	19.99	19.98	20.24	20.09
		55990	19.77	19.85	20.11	19.88
		55315	19.54	19.56	19.82	19.66
	36RB-Middle (19)	56665	19.92	19.98	20.24	20.04
		55990	19.76	19.81	20.07	19.91
		55315	19.50	19.54	19.80	19.65
	36RB-Low (0)	56665	19.92	19.95	20.21	20.04
		55990	19.76	19.86	20.12	19.86
		55315	19.53	19.55	19.81	19.63
	75RB (0)	56665	19.94	19.99	20.26	20.04
		55990	19.80	19.79	20.05	19.92
		55315	19.51	19.56	19.82	19.61
20MHz	1RB-High (99)	56640	19.73	19.98	20.34	19.83
		55990	19.68	19.66	20.01	19.83
		55340	19.44	19.29	19.64	19.56
	1RB-Middle (50)	56640	19.76	20.01	20.37	19.91
		55990	19.54	19.63	19.98	19.67
		55340	19.41	19.26	19.61	19.54
	1RB-Low (0)	56640	19.80	20.27	20.34	19.92
		55990	19.62	19.97	20.03	19.73
		55340	19.48	19.60	19.65	19.60
	50RB-High (50)	56640	20.00	20.04	20.10	20.12
		55990	19.80	19.83	19.89	19.93
		55340	19.53	19.55	19.60	19.66
	50RB-Middle (25)	56640	19.99	20.02	20.38	20.10
		55990	19.77	19.81	20.17	19.92
		55340	19.57	19.56	19.91	19.67
	50RB-Low (0)	56640	19.93	20.01	20.37	20.06
		55990	19.75	19.77	20.13	19.89
		55340	19.49	19.54	19.89	19.61
	100RB (0)	56640	19.94	19.95	20.31	20.04
		55990	19.80	19.79	20.14	19.92
		55340	19.55	19.56	19.92	19.70

LTE B66 ANT1 DS1/2/4/8						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	24.09	23.45	22.39	19.09
		1745 (132322)	23.95	23.39	22.24	19.75
		1710.7 (131979)	23.99	23.52	22.44	19.49
	1RB-Middle (3)	1779.3 (132665)	24.12	23.28	22.25	19.52
		1745 (132322)	24.20	23.42	22.36	19.50
		1710.7 (131979)	24.15	23.38	22.40	20.15
	1RB-Low (0)	1779.3 (132665)	23.95	23.15	22.19	19.65
		1745 (132322)	23.97	23.33	22.27	19.97
		1710.7 (131979)	23.97	23.34	22.22	19.07
	3RB-High (3)	1779.3 (132665)	24.01	23.15	22.15	19.21
		1745 (132322)	24.07	23.13	22.24	19.77
		1710.7 (131979)	24.22	23.05	22.24	19.32
	3RB-Middle (1)	1779.3 (132665)	24.00	23.00	22.35	19.20
		1745 (132322)	24.13	23.24	22.24	19.73
		1710.7 (131979)	24.06	23.15	22.28	19.76
	3RB-Low (0)	1779.3 (132665)	24.14	23.17	21.96	19.74
		1745 (132322)	24.09	23.16	21.97	19.89
		1710.7 (131979)	24.11	23.20	22.11	20.01
3MHz	6RB (0)	1779.3 (132665)	23.08	22.17	20.99	18.48
		1745 (132322)	23.15	22.09	21.12	18.35
		1710.7 (131979)	23.05	22.19	21.10	18.75
	1RB-High (14)	1778.5 (132657)	24.02	23.33	22.42	19.62
		1745 (132322)	24.05	23.48	22.44	19.45
		1711.5 (131987)	24.07	23.17	22.06	19.17
	1RB-Middle (7)	1778.5 (132657)	24.10	23.69	22.22	19.60
		1745 (132322)	24.04	23.41	22.29	19.84
		1711.5 (131987)	24.05	23.71	22.29	19.45
	1RB-Low (0)	1778.5 (132657)	24.03	23.37	22.21	19.43
		1745 (132322)	24.08	23.35	22.26	19.28
		1711.5 (131987)	24.11	23.45	22.29	19.91
	8RB-High (7)	1778.5 (132657)	23.18	22.22	21.21	18.28
		1745 (132322)	23.14	22.17	21.26	18.24
		1711.5 (131987)	23.22	22.19	21.22	18.42
	8RB-Middle (4)	1778.5 (132657)	23.15	22.22	21.15	18.65
		1745 (132322)	23.26	22.30	21.27	18.86
		1711.5 (131987)	23.27	22.31	21.24	19.07
	8RB-Low (0)	1778.5 (132657)	23.17	22.22	21.26	18.27
		1745 (132322)	23.18	22.11	21.20	18.78
		1711.5 (131987)	23.21	22.30	21.12	18.81
5MHz	15RB (0)	1778.5 (132657)	23.12	22.20	21.20	18.72
		1745 (132322)	23.27	22.27	21.26	18.97
		1711.5 (131987)	23.22	22.26	21.22	18.72
	1RB-High (24)	1777.5 (132647)	24.00	23.29	22.42	19.70
		1745 (132322)	24.03	23.51	22.10	19.73
		1712.5 (131997)	24.12	23.64	22.33	19.22
	1RB-Middle (12)	1777.5 (132647)	24.22	23.25	22.12	19.42
		1745 (132322)	24.08	23.69	22.24	19.18
		1712.5 (131997)	24.14	23.42	22.26	19.34
	1RB-Low (0)	1777.5 (132647)	24.15	23.71	22.36	19.35
		1745 (132322)	24.22	23.47	22.39	19.62
		1712.5 (131997)	24.21	23.53	22.42	20.01
	12RB-High (13)	1777.5 (132647)	23.22	22.11	21.24	18.72
		1745 (132322)	23.07	22.21	21.26	19.07
		1712.5 (131997)	23.28	22.20	21.15	18.48
	12RB-Middle (6)	1777.5 (132647)	23.18	22.28	21.33	19.18
		1745 (132322)	23.28	22.23	21.25	18.98
		1712.5 (131997)	23.20	22.31	21.24	18.30
	12RB-Low (0)	1777.5 (132647)	23.18	22.10	21.23	18.78
		1745 (132322)	23.26	22.22	21.25	18.66
		1712.5 (131997)	23.21	22.23	21.20	18.51
	25RB (0)	1777.5 (132647)	23.20	22.22	21.26	18.50
		1745 (132322)	23.20	22.16	21.15	18.50
		1712.5 (131997)	23.19	22.15	21.25	18.29

10MHz	1RB-High (49)	1775 (132622)	24.06	23.63	22.21	19.36
		1745 (132322)	24.01	23.33	22.33	19.01
		1715 (132022)	24.11	23.41	22.34	19.51
	1RB-Middle (24)	1775 (132622)	24.05	23.48	22.44	19.85
		1745 (132322)	24.14	23.37	22.37	19.74
		1715 (132022)	24.07	23.38	22.37	20.07
	1RB-Low (0)	1775 (132622)	24.16	23.63	22.32	19.96
		1745 (132322)	24.13	23.57	22.17	19.43
		1715 (132022)	24.09	23.57	22.48	19.59
	25RB-High (25)	1775 (132622)	23.24	22.26	21.32	19.14
		1745 (132322)	23.23	22.21	21.23	18.23
		1715 (132022)	23.24	22.29	21.26	18.44
	25RB-Middle (12)	1775 (132622)	23.24	22.34	21.38	18.64
		1745 (132322)	23.25	22.28	21.31	18.75
		1715 (132022)	23.26	22.24	21.21	19.06
	25RB-Low (0)	1775 (132622)	23.26	22.27	21.32	18.56
		1745 (132322)	23.23	22.22	21.30	18.93
		1715 (132022)	23.20	22.27	21.26	18.70
	50RB (0)	1775 (132622)	23.30	22.26	21.34	19.00
		1745 (132322)	23.09	22.15	21.25	19.09
		1715 (132022)	23.24	22.31	21.25	18.54
15MHz	1RB-High (74)	1772.5 (132597)	24.01	23.41	22.19	19.51
		1745 (132322)	24.01	23.41	22.19	19.01
		1717.5 (132047)	23.96	23.41	22.29	19.56
	1RB-Middle (37)	1772.5 (132597)	24.01	23.45	22.31	19.61
		1745 (132322)	24.05	23.34	22.29	19.55
		1717.5 (132047)	24.10	23.41	22.25	19.10
	1RB-Low (0)	1772.5 (132597)	24.07	23.53	22.28	19.87
		1745 (132322)	23.99	23.32	22.27	18.99
		1717.5 (132047)	24.00	23.44	22.31	19.80
	36RB-High (38)	1772.5 (132597)	23.09	22.13	21.14	18.79
		1745 (132322)	23.09	22.01	21.19	19.09
		1717.5 (132047)	23.19	22.15	21.17	19.19
	36RB-Middle (19)	1772.5 (132597)	23.23	22.17	21.26	18.93
		1745 (132322)	23.12	22.07	21.20	18.22
		1717.5 (132047)	23.16	22.14	21.27	18.16
	36RB-Low (0)	1772.5 (132597)	23.27	22.24	21.20	18.97
		1745 (132322)	23.04	22.08	21.09	18.34
		1717.5 (132047)	23.24	22.08	21.24	18.54
	75RB (0)	1772.5 (132597)	23.15	22.21	21.17	18.65
		1745 (132322)	23.13	22.14	21.00	19.03
		1717.5 (132047)	23.15	22.20	21.11	18.85
20MHz	1RB-High (99)	1770 (132572)	23.95	23.60	22.43	19.65
		1745 (132322)	24.08	23.39	22.27	19.60
		1720 (132072)	24.07	23.28	22.36	19.27
	1RB-Middle (50)	1770 (132572)	24.06	23.42	22.41	19.86
		1745 (132322)	23.94	23.53	22.29	20.08
		1720 (132072)	24.10	23.32	22.19	19.54
	1RB-Low (0)	1770 (132572)	23.99	23.63	22.39	19.89
		1745 (132322)	24.09	23.40	22.31	19.19
		1720 (132072)	24.04	23.40	22.40	19.94
	50RB-High (50)	1770 (132572)	23.29	22.23	21.26	18.29
		1745 (132322)	23.15	22.08	21.19	18.85
		1720 (132072)	23.19	22.19	21.15	19.09
	50RB-Middle (25)	1770 (132572)	23.24	22.28	21.39	19.21
		1745 (132322)	23.31	22.21	21.18	18.64
		1720 (132072)	23.14	22.19	21.26	19.24
	50RB-Low (0)	1770 (132572)	23.29	22.27	21.27	18.29
		1745 (132322)	23.08	22.13	21.17	18.18
		1720 (132072)	23.27	22.22	21.29	18.47
	100RB (0)	1770 (132572)	23.27	22.33	21.34	18.97
		1745 (132322)	23.12	22.14	21.09	18.42
		1720 (132072)	23.18	22.19	21.17	18.78

LTE B66 ANT1 DS13						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	21.84	22.01	22.05	21.95
		1745 (132322)	21.85	21.92	21.96	21.96
		1710.7 (131979)	21.83	22.04	22.08	21.96
	1RB-Middle (3)	1779.3 (132665)	21.78	21.91	21.95	21.89
		1745 (132322)	21.74	21.80	21.84	21.88
		1710.7 (131979)	21.72	21.98	22.02	21.87
	1RB-Low (0)	1779.3 (132665)	21.77	21.90	21.94	21.91
		1745 (132322)	21.77	21.79	21.83	21.92
		1710.7 (131979)	21.80	21.92	21.96	21.92
	3RB-High (3)	1779.3 (132665)	21.89	21.96	22.00	22.00
		1745 (132322)	21.92	21.90	21.94	22.05
		1710.7 (131979)	21.89	21.94	21.98	22.03
	3RB-Middle (1)	1779.3 (132665)	21.91	21.95	21.99	22.03
		1745 (132322)	21.81	21.84	21.88	21.93
		1710.7 (131979)	21.89	21.95	21.99	22.00
	3RB-Low (0)	1779.3 (132665)	21.89	21.92	21.96	22.00
		1745 (132322)	21.78	21.80	21.84	21.89
		1710.7 (131979)	21.80	21.86	21.89	21.94
3MHz	6RB (0)	1779.3 (132665)	21.91	21.95	21.99	22.02
		1745 (132322)	21.81	21.85	21.89	21.94
		1710.7 (131979)	21.88	21.98	22.01	21.98
	1RB-High (14)	1778.5 (132657)	21.97	22.14	22.18	22.08
		1745 (132322)	21.98	22.05	22.09	22.13
		1711.5 (131987)	21.96	22.18	22.22	22.07
	1RB-Middle (7)	1778.5 (132657)	21.91	22.04	22.08	22.02
		1745 (132322)	21.87	21.93	21.97	21.99
		1711.5 (131987)	21.85	22.11	22.15	22.00
	1RB-Low (0)	1778.5 (132657)	21.90	22.03	22.07	22.01
		1745 (132322)	21.90	21.92	21.96	22.01
		1711.5 (131987)	21.93	22.05	22.09	22.03
	8RB-High (7)	1778.5 (132657)	22.02	22.09	22.13	22.15
		1745 (132322)	22.05	22.03	22.07	22.18
		1711.5 (131987)	22.02	22.07	22.11	22.14
	8RB-Middle (4)	1778.5 (132657)	22.04	22.08	22.12	22.15
		1745 (132322)	21.94	21.97	22.01	22.07
		1711.5 (131987)	22.02	22.08	22.12	22.17
	8RB-Low (0)	1778.5 (132657)	22.02	22.05	22.09	22.13
		1745 (132322)	21.91	21.93	21.97	22.05
		1711.5 (131987)	21.93	21.99	22.03	22.03
5MHz	15RB (0)	1778.5 (132657)	22.04	22.08	22.12	22.19
		1745 (132322)	21.94	21.98	22.02	22.06
		1711.5 (131987)	22.01	22.11	22.15	22.12
	1RB-High (24)	1777.5 (132647)	21.99	22.16	22.20	22.12
		1745 (132322)	22.00	22.07	22.11	22.12
		1712.5 (131997)	21.98	22.20	22.24	22.13
	1RB-Middle (12)	1777.5 (132647)	21.93	22.06	22.10	22.04
		1745 (132322)	21.89	21.95	21.99	22.00
		1712.5 (131997)	21.87	22.13	22.17	22.01
	1RB-Low (0)	1777.5 (132647)	21.92	22.05	22.09	22.05
		1745 (132322)	21.92	21.94	21.98	22.04
		1712.5 (131997)	21.95	22.07	22.11	22.06
	12RB-High (13)	1777.5 (132647)	22.04	22.11	22.15	22.17
		1745 (132322)	22.07	22.05	22.09	22.18
		1712.5 (131997)	22.04	22.09	22.13	22.18
	12RB-Middle (6)	1777.5 (132647)	22.06	22.10	22.14	22.17
		1745 (132322)	21.96	21.99	22.03	22.10
		1712.5 (131997)	22.04	22.10	22.14	22.17
	12RB-Low (0)	1777.5 (132647)	22.04	22.07	22.11	22.17
		1745 (132322)	21.93	21.95	21.99	22.04
		1712.5 (131997)	21.95	22.01	22.05	22.05
	25RB (0)	1777.5 (132647)	22.06	22.10	22.14	22.18
		1745 (132322)	21.96	22.00	22.04	22.07
		1712.5 (131997)	22.03	22.13	22.17	22.13

10MHz	1RB-High (49)	1775 (132622)	21.96	22.13	22.17	22.11
		1745 (132322)	21.97	22.04	22.08	22.09
		1715 (132022)	21.95	22.17	22.21	22.08
	1RB-Middle (24)	1775 (132622)	21.90	22.03	22.07	22.05
		1745 (132322)	21.86	21.92	21.96	21.98
		1715 (132022)	21.84	22.10	22.14	21.98
	1RB-Low (0)	1775 (132622)	21.89	22.02	22.06	22.04
		1745 (132322)	21.89	21.91	21.95	22.04
		1715 (132022)	21.92	22.04	22.08	22.07
	25RB-High (25)	1775 (132622)	22.01	22.08	22.12	22.11
		1745 (132322)	22.04	22.02	22.06	22.18
		1715 (132022)	22.01	22.06	22.10	22.16
	25RB-Middle (12)	1775 (132622)	22.03	22.07	22.11	22.16
		1745 (132322)	21.93	21.96	22.00	22.05
		1715 (132022)	22.01	22.07	22.11	22.12
	25RB-Low (0)	1775 (132622)	22.01	22.04	22.08	22.16
		1745 (132322)	21.90	21.92	21.96	22.04
		1715 (132022)	21.92	21.98	22.02	22.04
	50RB (0)	1775 (132622)	22.03	22.07	22.11	22.13
		1745 (132322)	21.93	21.97	22.01	22.08
		1715 (132022)	22.00	22.10	22.14	22.13
15MHz	1RB-High (74)	1772.5 (132597)	21.89	21.97	22.01	22.04
		1745 (132322)	21.85	21.88	21.92	21.96
		1717.5 (132047)	21.88	22.00	22.04	22.02
	1RB-Middle (37)	1772.5 (132597)	21.91	21.87	21.91	22.04
		1745 (132322)	21.81	21.76	21.80	21.96
		1717.5 (132047)	21.89	21.94	21.98	22.04
	1RB-Low (0)	1772.5 (132597)	21.89	21.86	21.90	22.00
		1745 (132322)	21.79	21.75	21.79	21.92
		1717.5 (132047)	21.89	21.88	21.92	22.04
	36RB-High (38)	1772.5 (132597)	21.99	21.92	21.96	22.14
		1745 (132322)	21.98	21.86	21.90	22.09
		1717.5 (132047)	21.96	21.90	21.94	22.09
	36RB-Middle (19)	1772.5 (132597)	21.96	21.91	21.95	22.08
		1745 (132322)	21.89	21.80	21.84	22.04
		1717.5 (132047)	21.92	21.91	21.95	22.07
	36RB-Low (0)	1772.5 (132597)	21.87	21.88	21.92	22.02
		1745 (132322)	21.83	21.76	21.80	21.96
		1717.5 (132047)	21.91	21.82	21.86	22.04
	75RB (0)	1772.5 (132597)	21.92	21.91	21.95	22.06
		1745 (132322)	21.84	21.81	21.85	21.97
		1717.5 (132047)	21.91	21.94	21.97	22.03
20MHz	1RB-High (99)	1770 (132572)	21.87	22.04	22.08	21.99
		1745 (132322)	21.83	21.95	21.99	21.98
		1720 (132072)	21.86	22.07	22.11	22.01
	1RB-Middle (50)	1770 (132572)	21.81	21.94	21.98	21.91
		1745 (132322)	21.77	21.83	21.87	21.92
		1720 (132072)	21.75	22.01	22.05	21.90
	1RB-Low (0)	1770 (132572)	21.80	21.93	21.97	21.91
		1745 (132322)	21.80	21.82	21.86	21.95
		1720 (132072)	21.88	21.95	21.99	21.95
	50RB-High (50)	1770 (132572)	21.92	21.99	22.03	22.07
		1745 (132322)	21.84	21.93	21.97	22.09
		1720 (132072)	21.92	21.97	22.01	22.04
	50RB-Middle (25)	1770 (132572)	21.92	21.98	22.02	22.06
		1745 (132322)	21.95	21.87	21.91	21.94
		1720 (132072)	21.94	21.98	22.02	22.04
	50RB-Low (0)	1770 (132572)	21.92	21.95	21.99	22.06
		1745 (132322)	21.81	21.83	21.87	21.95
		1720 (132072)	21.83	21.89	21.92	21.98
	100RB (0)	1770 (132572)	21.94	21.98	22.02	22.06
		1745 (132322)	21.84	21.88	21.92	21.97
		1720 (132072)	21.91	22.01	22.05	22.06

LTE B66 ANT3 DS18						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	22.98	22.91	23.07	18.58
		1745 (132322)	23.06	22.85	23.01	18.66
		1710.7 (131979)	23.33	23.27	23.43	19.23
	1RB-Middle (3)	1779.3 (132665)	22.94	22.87	23.03	18.44
		1745 (132322)	23.11	22.88	23.04	18.21
		1710.7 (131979)	23.37	23.32	23.48	19.07
	1RB-Low (0)	1779.3 (132665)	22.99	22.90	23.06	18.39
		1745 (132322)	23.20	22.95	23.11	19.20
		1710.7 (131979)	23.46	23.38	23.54	19.06
	3RB-High (3)	1779.3 (132665)	22.35	21.40	21.55	18.35
		1745 (132322)	22.46	21.45	21.60	17.46
		1710.7 (131979)	22.77	21.79	21.94	18.77
	3RB-Middle (1)	1779.3 (132665)	22.47	21.49	21.63	18.27
		1745 (132322)	22.52	21.48	21.63	17.62
		1710.7 (131979)	22.81	21.85	22.00	18.01
	3RB-Low (0)	1779.3 (132665)	22.46	21.46	21.61	18.16
		1745 (132322)	22.55	21.50	21.65	17.55
		1710.7 (131979)	22.89	21.88	22.03	18.29
	6RB (0)	1779.3 (132665)	22.42	21.47	21.61	18.12
		1745 (132322)	22.52	21.48	21.62	18.02
		1710.7 (131979)	22.84	21.84	21.99	17.94
3MHz	1RB-High (14)	1778.5 (132657)	23.08	23.01	23.17	18.58
		1745 (132322)	23.16	22.95	23.11	18.46
		1711.5 (131987)	23.43	23.37	23.53	19.33
	1RB-Middle (7)	1778.5 (132657)	23.04	22.97	23.13	18.54
		1745 (132322)	23.21	22.98	23.14	18.91
		1711.5 (131987)	23.47	23.42	23.59	18.47
	1RB-Low (0)	1778.5 (132657)	23.09	23.00	23.16	18.69
		1745 (132322)	23.30	23.05	23.21	18.60
		1711.5 (131987)	23.57	23.48	23.64	18.77
	8RB-High (7)	1778.5 (132657)	22.45	21.49	21.64	18.45
		1745 (132322)	22.56	21.54	21.69	18.36
		1711.5 (131987)	22.87	21.88	22.03	17.97
	8RB-Middle (4)	1778.5 (132657)	22.57	21.58	21.73	17.67
		1745 (132322)	22.62	21.58	21.73	17.72
		1711.5 (131987)	22.91	21.94	22.09	18.41
	8RB-Low (0)	1778.5 (132657)	22.56	21.55	21.70	18.26
		1745 (132322)	22.64	21.59	21.74	18.54
		1711.5 (131987)	22.99	21.97	22.13	18.79
	15RB (0)	1778.5 (132657)	22.52	21.56	21.71	17.92
		1745 (132322)	22.62	21.57	21.72	18.42
		1711.5 (131987)	22.94	21.93	22.09	18.74
5MHz	1RB-High (24)	1777.5 (132647)	23.08	23.01	23.17	18.48
		1745 (132322)	23.16	22.95	23.11	18.46
		1712.5 (131997)	23.43	23.37	23.53	18.53
	1RB-Middle (12)	1777.5 (132647)	23.04	22.97	23.13	18.34
		1745 (132322)	23.21	22.98	23.14	18.31
		1712.5 (131997)	23.47	23.42	23.59	18.77
	1RB-Low (0)	1777.5 (132647)	23.09	23.00	23.16	18.29
		1745 (132322)	23.30	23.05	23.21	18.80
		1712.5 (131997)	23.57	23.48	23.64	19.17
	12RB-High (13)	1777.5 (132647)	22.45	21.49	21.64	18.45
		1745 (132322)	22.56	21.54	21.69	18.26
		1712.5 (131997)	22.87	21.88	22.03	18.47
	12RB-Middle (6)	1777.5 (132647)	22.57	21.58	21.73	17.57
		1745 (132322)	22.62	21.58	21.73	18.12
		1712.5 (131997)	22.91	21.94	22.09	18.31
	12RB-Low (0)	1777.5 (132647)	22.56	21.55	21.70	18.26
		1745 (132322)	22.64	21.59	21.74	18.24
		1712.5 (131997)	22.99	21.97	22.13	18.59
	25RB (0)	1777.5 (132647)	22.52	21.56	21.71	17.82
		1745 (132322)	22.62	21.57	21.72	18.42
		1712.5 (131997)	22.94	21.93	22.09	18.94

10MHz	1RB-High (49)	1775 (132622)	23.00	22.93	23.09	18.80
		1745 (132322)	23.08	22.87	23.03	18.38
		1715 (132022)	23.35	23.29	23.45	18.45
	1RB-Middle (24)	1775 (132622)	22.96	22.89	23.05	18.76
		1745 (132322)	23.13	22.90	23.06	18.63
		1715 (132022)	23.39	23.34	23.50	19.09
	1RB-Low (0)	1775 (132622)	23.01	22.92	23.08	18.31
		1745 (132322)	23.22	22.97	23.13	18.32
		1715 (132022)	23.48	23.40	23.56	18.58
	25RB-High (25)	1775 (132622)	22.37	21.42	21.57	18.27
		1745 (132322)	22.48	21.47	21.62	18.48
		1715 (132022)	22.79	21.81	21.96	17.99
	25RB-Middle (12)	1775 (132622)	22.49	21.50	21.65	18.19
		1745 (132322)	22.54	21.50	21.65	18.44
		1715 (132022)	22.83	21.87	22.02	18.53
	25RB-Low (0)	1775 (132622)	22.48	21.48	21.63	17.88
		1745 (132322)	22.57	21.52	21.67	18.07
		1715 (132022)	22.91	21.90	22.05	18.71
	50RB (0)	1775 (132622)	22.44	21.48	21.63	18.04
		1745 (132322)	22.54	21.49	21.64	17.64
		1715 (132022)	22.86	21.86	22.01	18.06
15MHz	1RB-High (74)	1772.5 (132597)	22.93	22.55	21.25	17.93
		1745 (132322)	22.86	22.64	21.33	17.96
		1717.5 (132047)	23.09	22.41	21.11	18.39
	1RB-Middle (37)	1772.5 (132597)	22.92	22.57	21.26	18.42
		1745 (132322)	22.92	22.74	21.42	18.82
		1717.5 (132047)	23.14	22.50	21.19	18.14
	1RB-Low (0)	1772.5 (132597)	22.95	22.57	21.26	18.45
		1745 (132322)	22.99	22.69	21.38	18.29
		1717.5 (132047)	23.19	22.49	21.19	18.59
	36RB-High (38)	1772.5 (132597)	22.25	21.32	20.09	17.85
		1745 (132322)	22.26	21.27	20.03	17.56
		1717.5 (132047)	22.53	21.56	20.30	18.23
	36RB-Middle (19)	1772.5 (132597)	22.27	21.30	20.07	18.07
		1745 (132322)	22.30	21.26	20.03	17.70
		1717.5 (132047)	22.59	21.57	20.32	18.39
	36RB-Low (0)	1772.5 (132597)	22.23	21.28	20.04	18.23
		1745 (132322)	22.25	21.29	20.05	17.65
		1717.5 (132047)	22.58	21.61	20.36	18.38
	75RB (0)	1772.5 (132597)	22.23	21.25	20.01	17.63
		1745 (132322)	22.26	21.28	20.05	17.76
		1717.5 (132047)	22.55	21.56	20.31	17.65
20MHz	1RB-High (99)	1770 (132572)	22.73	22.66	22.82	17.83
		1745 (132322)	22.81	22.60	22.76	18.41
		1720 (132072)	23.08	23.01	23.17	18.18
	1RB-Middle (50)	1770 (132572)	22.69	22.62	22.78	18.69
		1745 (132322)	22.85	22.64	22.79	18.75
		1720 (132072)	23.21	23.07	23.23	18.91
	1RB-Low (0)	1770 (132572)	22.74	22.65	22.81	17.94
		1745 (132322)	22.95	22.71	22.86	18.65
		1720 (132072)	23.11	23.12	23.28	18.31
	50RB-High (50)	1770 (132572)	22.11	21.17	21.32	17.21
		1745 (132322)	22.22	21.22	21.37	18.12
		1720 (132072)	22.52	21.55	21.70	17.92
	50RB-Middle (25)	1770 (132572)	22.23	21.25	21.40	17.63
		1745 (132322)	22.64	21.25	21.40	17.98
		1720 (132072)	22.28	21.61	21.76	18.36
	50RB-Low (0)	1770 (132572)	22.21	21.23	21.37	17.31
		1745 (132322)	22.30	21.27	21.41	18.20
		1720 (132072)	22.56	21.64	21.79	18.14
	100RB (0)	1770 (132572)	22.18	21.23	21.38	17.18
		1745 (132322)	22.28	21.24	21.39	18.18
		1720 (132072)	22.59	21.60	21.75	17.99

LTE B66 ANT3 DS14						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	18.82	18.87	18.96	18.94
		1745 (132322)	18.81	18.82	18.91	18.91
		1710.7 (131979)	19.03	19.16	19.25	19.16
	1RB-Middle (3)	1779.3 (132665)	18.71	18.82	18.90	18.83
		1745 (132322)	18.86	18.88	18.97	18.97
		1710.7 (131979)	19.03	19.17	19.26	19.13
	1RB-Low (0)	1779.3 (132665)	18.74	18.87	18.96	18.87
		1745 (132322)	18.89	18.91	18.99	19.00
		1710.7 (131979)	19.06	19.23	19.32	19.17
	3RB-High (3)	1779.3 (132665)	18.77	18.81	18.90	18.87
		1745 (132322)	18.85	18.85	18.94	18.99
		1710.7 (131979)	19.12	19.15	19.24	19.23
	3RB-Middle (1)	1779.3 (132665)	18.84	18.89	18.97	18.95
		1745 (132322)	18.90	18.89	18.98	19.05
		1710.7 (131979)	19.18	19.21	19.30	19.33
	3RB-Low (0)	1779.3 (132665)	18.85	18.85	18.94	18.98
		1745 (132322)	18.89	18.89	18.98	19.01
		1710.7 (131979)	19.19	19.20	19.29	19.33
	6RB (0)	1779.3 (132665)	18.87	18.87	18.96	19.01
		1745 (132322)	18.88	18.88	18.97	19.03
		1710.7 (131979)	19.17	19.18	19.27	19.31
3MHz	1RB-High (14)	1778.5 (132657)	19.05	19.11	19.19	19.15
		1745 (132322)	19.04	19.05	19.14	19.14
		1711.5 (131987)	19.26	19.40	19.49	19.40
	1RB-Middle (7)	1778.5 (132657)	18.94	19.05	19.13	19.08
		1745 (132322)	19.09	19.11	19.20	19.19
		1711.5 (131987)	19.27	19.41	19.50	19.40
	1RB-Low (0)	1778.5 (132657)	18.97	19.10	19.19	19.09
		1745 (132322)	19.13	19.14	19.23	19.26
		1711.5 (131987)	19.30	19.47	19.56	19.45
	8RB-High (7)	1778.5 (132657)	19.00	19.04	19.13	19.11
		1745 (132322)	19.08	19.08	19.17	19.19
		1711.5 (131987)	19.35	19.39	19.48	19.47
	8RB-Middle (4)	1778.5 (132657)	19.07	19.12	19.21	19.21
		1745 (132322)	19.13	19.12	19.21	19.26
		1711.5 (131987)	19.41	19.44	19.53	19.53
	8RB-Low (0)	1778.5 (132657)	19.08	19.08	19.17	19.21
		1745 (132322)	19.12	19.12	19.21	19.25
		1711.5 (131987)	19.43	19.44	19.53	19.58
	15RB (0)	1778.5 (132657)	19.10	19.10	19.19	19.20
		1745 (132322)	19.11	19.11	19.20	19.25
		1711.5 (131987)	19.41	19.41	19.50	19.53
5MHz	1RB-High (24)	1777.5 (132647)	19.08	19.05	18.81	19.23
		1745 (132322)	19.19	19.14	18.90	19.33
		1712.5 (131997)	19.41	19.75	19.50	19.53
	1RB-Middle (12)	1777.5 (132647)	19.01	18.89	18.65	19.13
		1745 (132322)	19.14	19.08	18.84	19.25
		1712.5 (131997)	19.34	19.74	19.50	19.48
	1RB-Low (0)	1777.5 (132647)	19.07	19.00	18.76	19.19
		1745 (132322)	19.24	19.15	18.90	19.39
		1712.5 (131997)	19.40	19.79	19.54	19.54
	12RB-High (13)	1777.5 (132647)	19.07	19.14	18.90	19.21
		1745 (132322)	19.14	19.23	18.99	19.29
		1712.5 (131997)	19.44	19.58	19.34	19.56
	12RB-Middle (6)	1777.5 (132647)	19.09	19.14	18.90	19.20
		1745 (132322)	19.16	19.27	19.02	19.30
		1712.5 (131997)	19.45	19.63	19.39	19.60
	12RB-Low (0)	1777.5 (132647)	19.08	19.17	18.93	19.20
		1745 (132322)	19.14	19.24	19.00	19.29
		1712.5 (131997)	19.43	19.59	19.34	19.55
	25RB (0)	1777.5 (132647)	19.07	19.03	18.79	19.21
		1745 (132322)	19.19	19.19	18.95	19.34
		1712.5 (131997)	19.45	19.51	19.26	19.58

10MHz	1RB-High (49)	1775 (132622)	18.92	18.97	18.69	19.07
		1745 (132322)	19.04	18.97	18.69	19.14
		1715 (132022)	19.32	19.79	19.50	19.46
	1RB-Middle (24)	1775 (132622)	18.94	19.01	18.73	19.05
		1745 (132322)	19.11	19.07	18.79	19.26
		1715 (132022)	19.37	19.80	19.51	19.50
	1RB-Low (0)	1775 (132622)	18.95	18.99	18.71	19.06
		1745 (132322)	19.06	19.03	18.75	19.21
		1715 (132022)	19.35	19.83	19.54	19.50
	25RB-High (25)	1775 (132622)	19.10	19.17	18.89	19.21
		1745 (132322)	19.11	19.13	18.85	19.26
		1715 (132022)	19.41	19.45	19.16	19.56
	25RB-Middle (12)	1775 (132622)	19.08	19.17	18.89	19.19
		1745 (132322)	19.21	19.26	18.98	19.35
		1715 (132022)	19.44	19.51	19.22	19.57
	25RB-Low (0)	1775 (132622)	19.08	19.15	18.87	19.22
		1745 (132322)	19.11	19.13	18.85	19.22
		1715 (132022)	19.47	19.53	19.24	19.57
	50RB (0)	1775 (132622)	19.11	19.15	18.87	19.21
		1745 (132322)	19.11	19.11	18.83	19.24
		1715 (132022)	19.45	19.46	19.17	19.57
15MHz	1RB-High (74)	1772.5 (132597)	19.02	19.41	19.21	19.15
		1745 (132322)	19.21	19.42	19.22	19.34
		1717.5 (132047)	18.89	19.13	18.94	19.03
	1RB-Middle (37)	1772.5 (132597)	19.07	19.42	19.22	19.18
		1745 (132322)	19.24	19.46	19.26	19.39
		1717.5 (132047)	18.99	19.24	19.04	19.12
	1RB-Low (0)	1772.5 (132597)	19.11	19.41	19.21	19.26
		1745 (132322)	19.27	19.52	19.32	19.41
		1717.5 (132047)	18.96	19.20	19.00	19.06
	36RB-High (38)	1772.5 (132597)	19.05	19.14	18.94	19.18
		1745 (132322)	19.33	19.04	18.85	19.44
		1717.5 (132047)	19.08	19.32	19.12	19.22
	36RB-Middle (19)	1772.5 (132597)	19.03	19.16	18.97	19.16
		1745 (132322)	19.38	19.09	18.90	19.52
		1717.5 (132047)	19.08	19.31	19.11	19.22
	36RB-Low (0)	1772.5 (132597)	19.10	19.10	18.90	19.24
		1745 (132322)	19.37	19.09	18.89	19.52
		1717.5 (132047)	19.08	19.33	19.13	19.23
	75RB (0)	1772.5 (132597)	19.05	19.08	18.89	19.15
		1745 (132322)	19.33	19.03	18.84	19.46
		1717.5 (132047)	19.09	19.34	19.14	19.19
20MHz	1RB-High (99)	1770 (132572)	18.96	19.01	19.10	19.07
		1745 (132322)	18.95	18.96	19.05	19.09
		1720 (132072)	19.17	19.31	19.40	19.31
	1RB-Middle (50)	1770 (132572)	18.85	18.96	19.04	19.00
		1745 (132322)	19.00	19.02	19.11	19.13
		1720 (132072)	19.21	19.32	19.41	19.31
	1RB-Low (0)	1770 (132572)	18.88	19.01	19.10	19.03
		1745 (132322)	19.04	19.05	19.14	19.18
		1720 (132072)	19.17	19.37	19.46	19.34
	50RB-High (50)	1770 (132572)	18.91	18.95	19.04	19.03
		1745 (132322)	18.99	18.99	19.08	19.11
		1720 (132072)	19.26	19.30	19.39	19.38
	50RB-Middle (25)	1770 (132572)	18.98	19.03	19.11	19.09
		1745 (132322)	19.34	19.03	19.12	19.18
		1720 (132072)	19.04	19.35	19.44	19.42
	50RB-Low (0)	1770 (132572)	18.99	18.99	19.08	19.14
		1745 (132322)	19.03	19.03	19.12	19.14
		1720 (132072)	19.32	19.35	19.44	19.49
	100RB (0)	1770 (132572)	19.01	19.01	19.10	19.11
		1745 (132322)	19.02	19.02	19.11	19.13
		1720 (132072)	19.32	19.32	19.41	19.45

LTE B66 ANT3 DS15						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	17.91	17.60	18.04	18.04
		1745 (132322)	17.91	17.54	17.98	18.06
		1710.7 (131979)	18.11	17.89	18.33	18.22
	1RB-Middle (3)	1779.3 (132665)	17.86	17.53	17.97	17.97
		1745 (132322)	17.95	17.64	18.08	18.05
		1710.7 (131979)	18.16	17.98	18.43	18.28
	1RB-Low (0)	1779.3 (132665)	17.90	17.53	17.97	18.05
		1745 (132322)	18.01	17.64	18.08	18.15
		1710.7 (131979)	18.24	18.01	18.46	18.34
	3RB-High (3)	1779.3 (132665)	17.88	17.95	18.40	18.01
		1745 (132322)	17.98	17.94	18.39	18.09
		1710.7 (131979)	18.25	18.26	18.72	18.38
	3RB-Middle (1)	1779.3 (132665)	17.97	17.99	18.44	18.07
		1745 (132322)	17.99	18.01	18.46	18.11
		1710.7 (131979)	18.29	18.30	18.76	18.40
	3RB-Low (0)	1779.3 (132665)	17.98	17.97	18.42	18.11
		1745 (132322)	18.01	18.02	18.47	18.16
		1710.7 (131979)	18.33	18.33	18.58	18.44
	6RB (0)	1779.3 (132665)	17.98	18.00	18.25	18.11
		1745 (132322)	17.99	18.01	18.26	18.12
		1710.7 (131979)	18.27	18.30	18.56	18.41
3MHz	1RB-High (14)	1778.5 (132657)	18.15	17.84	18.28	18.25
		1745 (132322)	18.15	17.78	18.22	18.30
		1711.5 (131987)	18.35	18.13	18.58	18.46
	1RB-Middle (7)	1778.5 (132657)	18.10	17.77	18.21	18.20
		1745 (132322)	18.19	17.87	18.32	18.33
		1711.5 (131987)	18.41	18.22	18.67	18.53
	1RB-Low (0)	1778.5 (132657)	18.14	17.77	18.21	18.28
		1745 (132322)	18.25	17.87	18.32	18.39
		1711.5 (131987)	18.48	18.25	18.70	18.62
	8RB-High (7)	1778.5 (132657)	18.12	18.19	18.64	18.27
		1745 (132322)	18.22	18.18	18.64	18.37
		1711.5 (131987)	18.49	18.51	18.97	18.61
	8RB-Middle (4)	1778.5 (132657)	18.21	18.23	18.69	18.33
		1745 (132322)	18.23	18.25	18.71	18.36
		1711.5 (131987)	18.53	18.55	19.01	18.66
	8RB-Low (0)	1778.5 (132657)	18.22	18.21	18.66	18.35
		1745 (132322)	18.25	18.27	18.72	18.36
		1711.5 (131987)	18.57	18.57	19.03	18.71
	15RB (0)	1778.5 (132657)	18.22	18.24	18.49	18.32
		1745 (132322)	18.23	18.25	18.51	18.37
		1711.5 (131987)	18.51	18.55	18.81	18.66
5MHz	1RB-High (24)	1777.5 (132647)	18.13	18.19	18.30	18.28
		1745 (132322)	18.41	18.37	18.48	18.56
		1712.5 (131997)	18.86	18.92	19.04	18.96
	1RB-Middle (12)	1777.5 (132647)	18.08	18.14	18.25	18.23
		1745 (132322)	18.37	18.26	18.37	18.49
		1712.5 (131997)	18.87	18.93	19.05	18.99
	1RB-Low (0)	1777.5 (132647)	18.10	18.28	18.39	18.22
		1745 (132322)	18.44	18.36	18.47	18.58
		1712.5 (131997)	18.92	18.98	19.10	19.04
	12RB-High (13)	1777.5 (132647)	18.14	18.15	18.26	18.28
		1745 (132322)	18.47	18.24	18.35	18.57
		1712.5 (131997)	18.54	18.60	18.71	18.64
	12RB-Middle (6)	1777.5 (132647)	18.13	18.13	18.24	18.23
		1745 (132322)	18.52	18.26	18.37	18.62
		1712.5 (131997)	18.54	18.60	18.72	18.64
	12RB-Low (0)	1777.5 (132647)	18.12	18.13	18.24	18.27
		1745 (132322)	18.45	18.23	18.34	18.55
		1712.5 (131997)	18.57	18.63	18.74	18.72
	25RB (0)	1777.5 (132647)	18.10	18.10	18.21	18.22
		1745 (132322)	18.49	18.22	18.33	18.59
		1712.5 (131997)	18.46	18.52	18.63	18.61

10MHz	1RB-High (49)	1775 (132622)	17.97	18.01	17.77	18.09
		1745 (132322)	18.11	17.96	17.72	18.21
		1715 (132022)	18.34	18.81	18.56	18.44
	1RB-Middle (24)	1775 (132622)	18.01	17.98	17.74	18.13
		1745 (132322)	18.09	18.05	17.81	18.24
		1715 (132022)	18.41	18.78	18.53	18.53
	1RB-Low (0)	1775 (132622)	17.96	18.04	17.80	18.09
		1745 (132322)	18.14	18.05	17.81	18.25
		1715 (132022)	18.37	18.84	18.59	18.50
	25RB-High (25)	1775 (132622)	18.16	18.27	18.02	18.30
		1745 (132322)	18.15	18.15	17.91	18.28
		1715 (132022)	18.47	18.47	18.22	18.60
	25RB-Middle (12)	1775 (132622)	18.17	18.23	17.99	18.30
		1745 (132322)	18.24	18.27	18.03	18.34
		1715 (132022)	18.49	18.54	18.30	18.64
	25RB-Low (0)	1775 (132622)	18.13	18.16	17.92	18.25
		1745 (132322)	18.18	18.17	17.93	18.28
		1715 (132022)	18.50	18.51	18.26	18.60
	50RB (0)	1775 (132622)	18.15	18.19	17.95	18.28
		1745 (132322)	18.18	18.13	17.89	18.32
		1715 (132022)	18.50	18.47	18.23	18.65
15MHz	1RB-High (74)	1772.5 (132597)	18.02	18.39	18.31	18.14
		1745 (132322)	17.93	17.94	17.87	18.03
		1717.5 (132047)	18.21	18.61	18.53	18.34
	1RB-Middle (37)	1772.5 (132597)	18.00	18.36	18.28	18.10
		1745 (132322)	18.02	18.00	17.92	18.15
		1717.5 (132047)	18.24	18.70	18.62	18.36
	1RB-Low (0)	1772.5 (132597)	18.01	18.39	18.31	18.14
		1745 (132322)	18.00	18.02	17.94	18.12
		1717.5 (132047)	18.28	18.70	18.62	18.42
	36RB-High (38)	1772.5 (132597)	18.06	18.05	17.97	18.21
		1745 (132322)	18.06	18.02	17.95	18.21
		1717.5 (132047)	18.32	18.38	18.30	18.47
	36RB-Middle (19)	1772.5 (132597)	18.06	18.04	17.96	18.20
		1745 (132322)	18.07	18.07	17.99	18.17
		1717.5 (132047)	18.35	18.40	18.33	18.47
	36RB-Low (0)	1772.5 (132597)	17.99	18.03	17.96	18.09
		1745 (132322)	18.08	18.09	18.01	18.21
		1717.5 (132047)	18.34	18.42	18.34	18.45
	75RB (0)	1772.5 (132597)	18.05	18.04	17.96	18.20
		1745 (132322)	18.03	18.06	17.98	18.13
		1717.5 (132047)	18.33	18.35	18.27	18.47
20MHz	1RB-High (99)	1770 (132572)	17.93	17.62	18.06	18.06
		1745 (132322)	17.93	17.56	18.00	18.06
		1720 (132072)	18.13	17.91	18.35	18.24
	1RB-Middle (50)	1770 (132572)	17.88	17.55	17.99	17.99
		1745 (132322)	17.97	17.66	18.10	18.09
		1720 (132072)	18.18	18.00	18.45	18.29
	1RB-Low (0)	1770 (132572)	17.92	17.55	17.99	18.02
		1745 (132322)	18.03	17.66	18.10	18.13
		1720 (132072)	18.40	18.03	18.48	18.37
	50RB-High (50)	1770 (132572)	17.90	17.97	18.42	18.04
		1745 (132322)	18.00	17.96	18.41	18.11
		1720 (132072)	18.27	18.28	18.74	18.39
	50RB-Middle (25)	1770 (132572)	17.99	18.01	18.46	18.13
		1745 (132322)	18.35	18.03	18.48	18.11
		1720 (132072)	18.01	18.32	18.78	18.46
	50RB-Low (0)	1770 (132572)	18.00	17.99	18.44	18.13
		1745 (132322)	18.03	18.04	18.49	18.14
		1720 (132072)	18.31	18.35	18.60	18.50
	100RB (0)	1770 (132572)	18.00	18.02	18.27	18.10
		1745 (132322)	18.01	18.03	18.28	18.15
		1720 (132072)	18.29	18.32	18.58	18.41

LTE B71 ANT0 DS1/2/3/4/5/8						
BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	695.5 (133447)	23.83	22.99	22.14	18.93
		680.5 (133297)	23.82	23.39	22.21	19.52
		665.5 (133147)	23.93	22.98	22.31	19.03
	1RB-Middle (12)	695.5 (133447)	23.96	23.22	22.19	19.86
		680.5 (133297)	23.97	23.61	22.21	19.07
		665.5 (133147)	23.91	23.40	22.11	19.01
	1RB-Low (0)	695.5 (133447)	24.01	23.17	22.15	20.01
		680.5 (133297)	23.90	23.28	22.13	19.30
		665.5 (133147)	23.85	23.30	21.69	19.15
	12RB-High (13)	695.5 (133447)	22.97	22.02	21.11	18.77
		680.5 (133297)	23.01	22.13	21.02	19.01
		665.5 (133147)	23.08	22.06	21.07	18.28
	12RB-Middle (6)	695.5 (133447)	23.08	22.04	21.14	18.78
		680.5 (133297)	23.02	22.05	21.01	18.02
		665.5 (133147)	23.07	22.14	21.05	18.87
	12RB-Low (0)	695.5 (133447)	22.95	22.03	20.98	18.65
		680.5 (133297)	22.98	21.78	21.05	18.58
		665.5 (133147)	23.02	21.96	21.06	18.42
	25RB (0)	695.5 (133447)	22.98	22.07	21.10	18.58
		680.5 (133297)	22.99	22.00	21.06	18.59
		665.5 (133147)	23.00	22.06	21.12	18.70
10MHz	1RB-High (49)	693 (132422)	24.01	23.31	22.24	19.31
		680.5 (133297)	23.96	23.34	22.25	19.56
		668 (133172)	23.95	23.24	22.10	19.25
	1RB-Middle (24)	693 (132422)	23.95	23.05	22.24	19.95
		680.5 (133297)	24.00	23.42	22.23	19.00
		668 (133172)	23.96	23.24	22.29	19.66
	1RB-Low (0)	693 (132422)	23.97	23.44	22.24	19.27
		680.5 (133297)	24.06	23.46	22.30	19.66
		668 (133172)	23.94	23.51	21.95	19.34
	25RB-High (25)	693 (132422)	22.97	22.02	21.12	18.07
		680.5 (133297)	23.08	22.05	21.09	18.48
		668 (133172)	23.00	22.00	21.08	18.60
	25RB-Middle (12)	693 (132422)	23.04	22.08	21.09	18.94
		680.5 (133297)	23.03	22.04	21.04	18.03
		668 (133172)	23.03	22.13	21.20	18.53
	25RB-Low (0)	693 (132422)	23.04	22.02	21.08	18.34
		680.5 (133297)	23.05	21.99	21.06	18.35
		668 (133172)	23.00	21.91	21.05	18.80
	50RB (0)	693 (132422)	23.03	21.96	21.06	18.83
		680.5 (133297)	23.01	22.00	21.04	18.21
		668 (133172)	23.04	22.03	21.13	18.34

15MHz	1RB-High (74)	690.5 (133397)	23.71	23.23	22.06	19.31
		680.5 (133297)	23.75	23.10	22.17	19.25
		670.5 (133197)	23.85	23.16	22.05	19.05
	1RB-Middle (37)	690.5 (133397)	23.79	23.13	22.09	19.69
		680.5 (133297)	23.79	23.17	22.15	19.39
		670.5 (133197)	23.80	23.12	22.04	19.30
	1RB-Low (0)	690.5 (133397)	23.90	23.27	22.15	19.00
		680.5 (133297)	23.84	23.18	22.10	18.94
		670.5 (133197)	23.83	23.28	22.03	19.13
	36RB-High (38)	690.5 (133397)	22.94	21.85	20.91	18.14
		680.5 (133297)	22.87	21.87	21.00	18.27
		670.5 (133197)	22.89	21.98	20.88	18.39
	36RB-Middle (19)	690.5 (133397)	22.95	21.97	21.02	18.95
		680.5 (133297)	22.95	21.86	20.98	18.35
		670.5 (133197)	22.99	22.02	20.98	18.49
	36RB-Low (0)	690.5 (133397)	22.88	21.93	20.99	18.18
		680.5 (133297)	22.95	21.93	20.97	18.55
		670.5 (133197)	22.86	21.95	20.97	17.96
	75RB (0)	690.5 (133397)	22.97	21.98	20.93	18.57
		680.5 (133297)	22.87	21.92	20.95	18.27
		670.5 (133197)	22.90	21.94	21.07	18.50
20MHz	1RB-High (99)	688 (133372)	23.72	23.10	22.17	19.32
		683 (133322)	23.79	23.23	22.13	19.49
		673 (133222)	23.69	23.76	22.09	19.19
	1RB-Middle (50)	688 (133372)	23.69	23.27	22.18	19.39
		683 (133322)	23.91	23.36	22.24	19.31
		673 (133222)	23.81	23.91	22.20	19.61
	1RB-Low (0)	688 (133372)	23.89	23.30	22.14	19.39
		683 (133322)	23.83	23.32	22.02	19.85
		673 (133222)	23.95	23.99	21.83	19.63
	50RB-High (50)	688 (133372)	22.90	22.04	21.08	18.60
		683 (133322)	22.98	21.92	21.02	18.18
		673 (133222)	23.04	22.03	21.10	18.34
	50RB-Middle (25)	688 (133372)	23.06	21.99	21.12	18.83
		683 (133322)	23.04	22.08	21.06	19.04
		673 (133222)	22.93	22.05	21.08	18.36
	50RB-Low (0)	688 (133372)	23.03	22.11	21.19	18.13
		683 (133322)	23.00	22.03	21.11	18.60
		673 (133222)	22.99	22.08	21.10	18.79
	100RB (0)	688 (133372)	22.94	22.02	22.02	18.44
		683 (133322)	23.03	22.09	21.06	18.33
		673 (133222)	23.17	22.12	21.09	18.57

41C PC3									
UL LTE CA Class	PCC				SCC				conducted power (dBm)
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	
CA_41C	20M	41490	1	99	20M	41292	1	0	24.41
CA_41C	20M	41490	1	99	15M	41319	1	0	24.66
CA_41C	20M	41490	1	99	10M	41346	1	0	23.91
CA_41C	20M	41490	1	99	5M	41373	1	0	24.09
CA_41C	20M	39750	1	99	5M	39867	1	0	23.45
CA_41C	20M	39750	1	99	20M	39948	1	0	24.41
CA_41C	20M	39750	1	99	15M	39921	1	0	24.3
CA_41C	20M	39750	1	99	10M	39894	1	0	23.87
CA_41C	15M	41515	1	74	15M	41365	1	0	24.05
CA_41C	15M	41515	1	74	10M	41395	1	0	23.58
CA_41C	15M	39725	1	74	10M	39845	1	0	24.53
CA_41C	20M	41490	1	0	20M	41292	1	99	24.37
CA_41C	20M	41490	1	0	15M	41319	1	74	24.07
CA_41C	20M	41490	1	0	10M	41346	1	49	23.93
CA_41C	20M	39750	1	0	5M	39867	1	24	23.58
CA_41C	20M	41490	1	0	5M	41373	1	24	23.61
CA_41C	20M	39750	1	0	20M	39948	1	99	23.5
CA_41C	20M	39750	1	0	15M	39921	1	74	22.92
CA_41C	20M	39750	1	0	10M	39894	1	49	23.21
CA_41C	15M	41515	1	0	15M	41365	1	74	22.59
CA_41C	15M	41515	1	0	10M	41395	1	49	23.45
CA_41C	15M	39725	1	0	10M	39845	1	49	23.64

41C PC3									
UL LTE CA Class	PCC				SCC				conducted power (dBm)
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	
CA_41C	20M	41490	1	99	20M	41292	1	0	25.28
CA_41C	20M	41490	1	99	15M	41319	1	0	25.30
CA_41C	20M	41490	1	99	10M	41346	1	0	24.96
CA_41C	20M	41490	1	99	5M	41373	1	0	24.67
CA_41C	20M	39750	1	99	5M	39867	1	0	24.30
CA_41C	20M	39750	1	99	20M	39948	1	0	25.18
CA_41C	20M	39750	1	99	15M	39921	1	0	25.09
CA_41C	20M	39750	1	99	10M	39894	1	0	24.70
CA_41C	15M	41515	1	74	15M	41365	1	0	24.56
CA_41C	15M	41515	1	74	10M	41395	1	0	24.32
CA_41C	15M	39725	1	74	10M	39845	1	0	25.29
CA_41C	20M	41490	1	0	20M	41292	1	99	25.17
CA_41C	20M	41490	1	0	15M	41319	1	74	24.80
CA_41C	20M	41490	1	0	10M	41346	1	49	24.44
CA_41C	20M	39750	1	0	5M	39867	1	24	24.30
CA_41C	20M	41490	1	0	5M	41373	1	24	23.73
CA_41C	20M	39750	1	0	20M	39948	1	99	23.66
CA_41C	20M	39750	1	0	15M	39921	1	74	23.39
CA_41C	20M	39750	1	0	10M	39894	1	49	22.99
CA_41C	15M	41515	1	0	15M	41365	1	74	22.82
CA_41C	15M	41515	1	0	10M	41395	1	49	23.74
CA_41C	15M	39725	1	0	10M	39845	1	49	23.69

41C PC2 DS12									
UL LTE CA Class	PCC				SCC				conducted power (dBm)
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	
CA_41C	20M	41490	1	99	20M	41292	1	0	15.97
CA_41C	20M	41490	1	99	15M	41319	1	0	15.87
CA_41C	20M	41490	1	99	10M	41346	1	0	15.58
CA_41C	20M	41490	1	99	5M	41373	1	0	15.98
CA_41C	20M	39750	1	99	5M	39867	1	0	15.76
CA_41C	20M	39750	1	99	20M	39948	1	0	15.44
CA_41C	20M	39750	1	99	15M	39921	1	0	15.79
CA_41C	20M	39750	1	99	10M	39894	1	0	16.03
CA_41C	15M	41515	1	74	15M	41365	1	0	15.59
CA_41C	15M	41515	1	74	10M	41395	1	0	16.02
CA_41C	15M	39725	1	74	10M	39845	1	0	15.91
CA_41C	20M	41490	1	0	20M	41292	1	99	15.71
CA_41C	20M	41490	1	0	15M	41319	1	74	15.91
CA_41C	20M	41490	1	0	10M	41346	1	49	16.05
CA_41C	20M	39750	1	0	5M	39867	1	24	15.67
CA_41C	20M	41490	1	0	5M	41373	1	24	15.85
CA_41C	20M	39750	1	0	20M	39948	1	99	16.04
CA_41C	20M	39750	1	0	15M	39921	1	74	15.64
CA_41C	20M	39750	1	0	10M	39894	1	49	16.01
CA_41C	15M	41515	1	0	15M	41365	1	74	15.85
CA_41C	15M	41515	1	0	10M	41395	1	49	15.64
CA_41C	15M	39725	1	0	10M	39845	1	49	15.82

41C PC2 DS13									
UL LTE CA Class	PCC				SCC				conducted power (dBm)
	PCC Bandwidth	channel	RB	RB OFFSET	SCC Bandwidth	channel	RB	RB OFFSET	
CA_41C	20M	41490	1	99	20M	41292	1	0	17.37
CA_41C	20M	41490	1	99	15M	41319	1	0	18.17
CA_41C	20M	41490	1	99	10M	41346	1	0	17.11
CA_41C	20M	41490	1	99	5M	41373	1	0	17.44
CA_41C	20M	39750	1	99	5M	39867	1	0	16.57
CA_41C	20M	39750	1	99	20M	39948	1	0	18.21
CA_41C	20M	39750	1	99	15M	39921	1	0	17.13
CA_41C	20M	39750	1	99	10M	39894	1	0	16.6
CA_41C	15M	41515	1	74	15M	41365	1	0	17.61
CA_41C	15M	41515	1	74	10M	41395	1	0	17.38
CA_41C	15M	39725	1	74	10M	39845	1	0	18.2
CA_41C	20M	41490	1	0	20M	41292	1	99	17.47
CA_41C	20M	41490	1	0	15M	41319	1	74	17.09
CA_41C	20M	41490	1	0	10M	41346	1	49	17.51
CA_41C	20M	39750	1	0	5M	39867	1	24	16.86
CA_41C	20M	41490	1	0	5M	41373	1	24	16.74
CA_41C	20M	39750	1	0	20M	39948	1	99	16.54
CA_41C	20M	39750	1	0	15M	39921	1	74	15.71
CA_41C	20M	39750	1	0	10M	39894	1	49	16.07
CA_41C	15M	41515	1	0	15M	41365	1	74	15.77
CA_41C	15M	41515	1	0	10M	41395	1	49	16.43
CA_41C	15M	39725	1	0	10M	39845	1	49	17.09

Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive. SAR test is not required since maximum output power when downlink carrier aggregation active is not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive.

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

DL LTE CA Class		PCC					SCC				conducted power (dBm)
		PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET	
DSI8	CA_12A-66A	12	23130	5130	1	49	66	66536	1	0	24.06
DSI8	CA_66A-12A	66	132072	66536	1	0	12	5130	1	49	24.04
DSI8	CA_2A-4A	25	26365	8365	1	50	66	66536	1	0	23.99
DSI4	CA_2A-4A	25	18900	900	50	50	66	66786	50	25	19.47
DSI5	CA_2A-4A	25	26140	8140	50	0	66	67036	50	50	18.05
DSI8	CA_4A-2A	66	132072	66536	1	0	25	8140	50	0	24.04
DSI4	CA_4A-2A	66	132322	66786	50	25	25	900	50	50	19.34
DSI5	CA_4A-2A	66	132572	67036	50	50	25	8365	1	50	18.95
DSI8	CA_66A-66A	66	132072	66536	1	0	66	66536	1	0	24.04
DSI3	CA_66A-66A	66	132322	66786	50	25	66	66786	50	25	21.95
DSI4	CA_66A-66A	66	132322	66786	50	25	66	66786	50	25	19.34
DSI5	CA_66A-66A	66	132572	67036	50	50	66	67036	50	50	18.95
DSI8	CA_66A-26A	66	132072	66536	1	0	26	8865	1	37	24.04
DSI5	CA_4A-5A	66	132572	67036	50	50	26	8865	36	19	18.95
DSI8	CA_25A-66A	25	26365	8365	1	50	66	66536	1	0	23.99
DSI5	CA_5A-4A	25	26140	8140	50	0	66	67036	50	50	18.05
DSI8	CA_66B	66	132072	66536	1	0	66	66536	1	0	24.04
DSI3	CA_66B	66	132322	66786	50	25	66	66786	50	25	21.95
DSI4	CA_66B	66	132322	66786	50	25	66	66786	50	25	19.34
DSI5	CA_66B	66	132572	67036	50	50	66	67036	50	50	18.95
DSI8	CA_66C	66	132072	66536	1	0	66	66536	1	0	24.04
DSI3	CA_66C	66	132322	66786	50	25	66	66786	50	25	21.95
DSI4	CA_66C	66	132322	66786	50	25	66	66786	50	25	19.34
DSI5	CA_66C	66	132572	67036	50	50	66	67036	50	50	18.95
DSI8	CA_25A-66A	25	26365	8365	1	50	66	66536	1	0	23.99
DSI4	CA_25A-66A	25	18900	900	50	50	66	66786	50	25	19.47
DSI5	CA_2A-66A	25	26140	8140	50	0	66	67036	50	50	18.05
DSI8	CA_66A-25A	66	132072	66536	1	0	25	8140	50	0	24.04
DSI4	CA_66A-25A	66	132322	66786	50	25	25	900	50	50	19.34
DSI5	CA_66A-2A	66	132572	67036	50	50	25	8140	50	0	18.95
DSI8	CA_2A-12A	25	26365	8365	1	50	12	5130	1	49	23.99
DSI8	CA_12A-2A	12	23130	5130	1	49	25	8365	1	50	24.06
DSI8	CA_25A-25A	25	26365	8365	1	50	25	8365	1	50	23.99
DSI3	CA_25A-25A	25	26140	8140	50	0	25	8140	50	0	21.11
DSI5	CA_25A-25A	25	26140	8140	50	0	25	8140	50	0	18.05
DSI8	CA_25C	25	26365	8365	1	50	25	8365	1	50	23.99
DSI4	CA_25C	25	18900	900	50	50	25	900	50	50	19.47
DSI5	CA_2C	25	26140	8140	50	0	25	8140	50	0	18.05
DSI8	CA_25A-26A	25	26365	8365	1	50	26	8865	1	37	23.99
DSI5	CA_25A-26A	25	26140	8140	50	0	26	8865	36	19	18.05
DSI8	CA_26A-25A	26	26865	8865	1	37	25	8365	1	50	23.90
DSI5	CA_26A-25A	26	26865	8865	36	19	25	8140	50	0	20.93
DSI8	CA_2A-71A	25	26365	8365	1	50	71	68686	1	0	23.99
DSI8	CA_71A-2A	71	133222	68686	1	0	25	8365	1	50	23.95
DSI8	CA_66A-71A	66	132072	66536	1	0	71	68686	1	0	24.04
DSI8	CA_71A-66A	71	133222	68686	1	0	66	66536	1	0	23.95
DSI8	CA_41A-41A	41	39750	39750	1	0	41	41490	1	0	24.49
DSI2	CA_41A-41A	41	39750	39750	50	0	41	41490	50	25	15.34
DSI3	CA_41A-41A	41	39750	39750	50	0	41	41490	1	50	17.85
DSI8	CA_25A-41A	25	26365	8365	1	50	41	41490	1	0	23.99
DSI3	CA_25A-41A	25	26140	8140	50	0	41	41490	1	50	21.11
DSI8	CA_41A-25A	41	39750	39750	1	0	25	8365	1	50	24.49
DSI3	CA_41A-25A	41	39750	39750	50	0	25	8140	50	0	17.85
DSI8	CA_26A-66A	26	26865	8865	1	37	66	66536	1	0	23.90
DSI5	CA_5A-66A	26	26865	8865	36	19	66	67036	50	50	20.93
DSI8	CA_66A-26A	66	132072	66536	1	0	26	8865	1	37	24.04
DSI5	CA_66A-5A	66	132572	67036	50	50	26	8865	36	19	18.95

Note: Testing is not required in bands or modes not intended/allowed for US operation.

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11.4 5G NR Measurement result

Maximum Target Power for Production Unit

BAND	DSI2 receiver on	DSI3 sensor on	DSI4 ENDC receiver on	DSI5 ENDC sensor on	DSI8 sensor off
5G NR n2 ANT1	25.00	22.00	25.00	19.00	25.00
5G NR n2 ANT3	25.00	25.00	18.00	21.00	25.00
5G NR n25 ANT1	25.00	23.00	25.00	22.00	25.00
5G NR n25 ANT3	/	/	15.50	21.00	25.00
5G NR n26 ANT0	25.00	25.00	/	/	25.00
5G NR n30 ANT3	22.00	25.00	19.00	22.00	25.00
5G NR n30 ANT0	25.00	21.00	/	/	25.00
5G NR n41 ANT3	16.50	18.00	13.50	16.50	26.50
5G NR n66 ANT1	25.00	24.00	25.00	25.00	25.00
5G NR n66 ANT3	/	/	18.00	23.50	25.00
5G NR n5 ANT0	25.00	25.00	25.00	24.50	25.00
5G NR n71 ANT0	25.00	22.50	25.00	19.50	25.00
5G NR n70 ANT0	25.00	25.00	/	/	25.00
5G NR n77L ANT4	16.50	22.50	14.50	20.00	26.00
5G NR n77H ANT4	16.50	22.50	14.50	21.50	26.00

No.	Test Freq Description	5G-n2								Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	Tune up	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	22	21.34
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	22	21.35
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	22	21.33
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	22	21.3
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	22	21.33
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	22	21.31
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	22	21.27
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	22	21.31
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	22	21.32
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	20.5	19.83
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	22	21.33
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	22	21.32
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	21.5	20.76
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.5	17.72
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	22	21.25
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	22	21.3
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	22	21.19
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	22	21.25
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	22	21.27
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	22	21.34
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	22	21.3
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	22	21.33
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	22	21.29

No.	Test Freq Description	5G-n2							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test Ch.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	19.00	18.30
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	19.00	18.31
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	19.00	18.29
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	19.00	18.27
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	19.00	18.29
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	19.00	18.28
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	19.00	18.24
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	19.00	18.28
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	19.00	18.28
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	19.00	18.21
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	19.00	18.29
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	19.00	18.28
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	19.00	18.18
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.50	17.72
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Rig	2_23	1880	376000	19.00	18.22
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	19.00	18.27
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Rig	1_24	1880	376000	19.00	18.17
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	19.00	18.22
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Rig	1_23	1880	376000	19.00	18.24
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	19.00	18.30
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	19.00	18.27
15	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	19.00	18.29
18	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	19.00	18.26

No.	Test Freq Description	5G-n2							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test Ch.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	18.00	17.16
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	18.00	17.22
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	18.00	17.18
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	18.00	17.11
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	18.00	17.14
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	18.00	17.15
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	18.00	17.16
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	18.00	17.09
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	18.00	17.14
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.00	17.08
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	18.00	17.07
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	18.00	17.10
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	18.00	17.09
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.00	17.05
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	18.00	16.98
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	18.00	17.08
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	18.00	17.03
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	18.00	17.07
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	18.00	17.04
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	18.00	17.14
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	18.00	17.07
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	18.00	17.17
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	18.00	17.16

No.	Test Freq Description	5G-n2							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test Ch.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	21.00	19.99
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	21.00	20.05
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	21.00	20.00
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	21.00	19.92
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	21.00	19.96
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	21.00	19.97
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	21.00	19.98
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	21.00	20.00
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	21.00	19.99
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	20.50	19.67
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	21.00	20.04
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	21.00	20.03
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	21.00	20.03
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.50	17.52
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	21.00	19.90
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	21.00	19.91
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	21.00	19.92
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	21.00	19.88
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	21.00	19.85
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	21.00	20.03
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	21.00	20.02
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	21.00	20.00
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	21.00	19.99

No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test Ch.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	24.50	23.77
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	24.50	23.78
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	24.50	23.62
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	24.50	23.71
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	24.50	23.76
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	24.50	23.77
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	24.50	23.72
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	24.00	23.05
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.50	21.68
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	20.50	19.65
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	23.50	22.37
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	23.00	21.89
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	21.50	20.70
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	18.50	17.68
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	24.00	22.84
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	24.00	22.88
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	24.00	22.72
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	24.00	22.91
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	24.50	23.69
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	24.50	23.76
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	24.50	22.70
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	24.50	23.70
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	24.50	23.74

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	21.00	20.19
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	21.00	20.20
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	21.00	20.12
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	21.00	20.08
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	21.00	20.10
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	21.00	20.06
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	21.00	20.15
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	21.00	20.14
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.00	20.16
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.50	19.65
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	21.00	20.17
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	21.00	20.12
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.00	20.11
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.50	17.69
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	21.00	20.14
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	21.00	20.12
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	21.00	20.10
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	21.00	20.11
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	21.00	20.15
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	21.00	20.17
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	21.00	20.07
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	21.00	20.11
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	21.00	20.09

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	15.50	14.44
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	15.50	14.55
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	15.50	14.48
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	15.50	14.46
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	15.50	14.43
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	15.50	14.40
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	15.50	14.48
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	15.50	14.44
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	15.50	14.48
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	15.50	14.47
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	15.50	14.47
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	15.50	14.44
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	15.50	14.48
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	15.50	14.46
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	15.50	14.51
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	15.50	14.50
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	15.50	14.47
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	15.50	14.49
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	15.50	14.45
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	15.50	14.48
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	15.50	14.46
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	15.50	14.47
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	15.50	14.50

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	23.00	22.22
2	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	23.00	22.23
3	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.50	21.72
4	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.50	19.63
5	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	23.00	22.23
6	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	23.00	22.18
7	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.50	20.68
8	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.50	17.71
9	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	23.00	22.22
10	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	23.00	22.24
11	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	23.00	22.24
12	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	23.00	22.21
13	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	23.00	22.20
14	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	23.00	22.18
15	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	23.00	22.20
16	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	23.00	22.21
17	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	23.00	22.24

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	22.00	21.10
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	22.00	21.16
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	22.00	21.12
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	22.00	21.11
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	22.00	21.13
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	22.00	21.14
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	22.00	21.06
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.00	21.11
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.00	21.14
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.50	19.78
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	22.00	21.06
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	22.00	21.12
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.50	20.50
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.50	17.65
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	22.00	21.10
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	22.00	21.12
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	22.00	21.12
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	22.00	21.09
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	22.00	21.08
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	22.00	21.14
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	22.00	21.08
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	22.00	21.09
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	22.00	21.12

No.	Test Freq Description	5G-n30							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2312.5	462500	19.00	18.07
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2310	462000	19.00	18.08
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2307.5	461500	19.00	18.05
4	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2310	462000	19.00	18.04
5	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2310	462000	19.00	18.05
6	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2310	462000	19.00	18.02
7	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2310	462000	19.00	18.00
8	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2310	462000	19.00	18.01
9	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2310	462000	19.00	17.94
10	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2310	462000	19.00	18.03
11	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2310	462000	19.00	17.90
12	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2310	462000	18.00	17.02
13	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2310	462000	19.00	18.00
14	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2310	462000	19.00	18.03
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2310	462000	19.00	18.02
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2310	462000	19.00	18.01
17	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2310	462000	19.00	18.06
18	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2310	462000	19.00	18.04
19	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2310	462000	19.00	18.01

No.	Test Freq Description	5G-n30							Tune up	Power Results (dBm) n30
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2312.5	462500	22.00	21.29
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2310	462000	22.00	21.30
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2307.5	461500	22.00	21.27
4	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2310	462000	22.00	21.25
5	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2310	462000	22.00	21.27
6	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2310	462000	22.00	21.23
7	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2310	462000	22.00	21.19
8	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2310	462000	20.50	19.15
9	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2310	462000	22.00	21.13
10	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2310	462000	22.00	21.24
11	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2310	462000	20.50	20.03
12	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2310	462000	18.50	17.03
13	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2310	462000	22.00	21.20
14	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2310	462000	22.00	21.24
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2310	462000	22.00	21.23
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2310	462000	22.00	21.22
17	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2310	462000	22.00	21.28
18	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2310	462000	22.00	21.25
19	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2310	462000	22.00	21.22

No.	Test Freq Description	5G-n30							Tune up	Power Results (dBm) n30
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2312.5	462500	21.00	20.29
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2310	462000	21.00	20.30
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2307.5	461500	21.00	20.27
4	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2310	462000	21.00	20.25
5	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2310	462000	21.00	20.27
6	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2310	462000	21.00	20.24
7	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2310	462000	21.00	20.20
8	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2310	462000	20.50	19.28
9	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2310	462000	21.00	20.28
10	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2310	462000	21.00	20.26
11	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2310	462000	21.00	20.18
12	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2310	462000	18.50	17.25
13	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2310	462000	21.00	20.16
14	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2310	462000	21.00	20.10
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2310	462000	21.00	20.11
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2310	462000	21.00	20.14
17	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2310	462000	21.00	20.20
18	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2310	462000	21.00	20.10
19	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2310	462000	21.00	20.11

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm) n66
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	18.00	17.12
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	18.00	17.18
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	18.00	17.16
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1770	354000	18.00	17.10
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	18.00	17.12
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1720	344000	18.00	17.10
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	18.00	17.09
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	18.00	17.13
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	18.00	17.14
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.00	17.09
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	18.00	17.11
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	18.00	17.11
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	18.00	17.04
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.00	17.08
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	18.00	17.07
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	18.00	17.04
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	18.00	17.01
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	18.00	16.97
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	18.00	16.96
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	18.00	17.07
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	18.00	16.95
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	18.00	17.03
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	18.00	17.01
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	18.00	17.10

No.	Test Freq Description	5G-n66						Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	23.50 22.46
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	23.50 22.56
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	23.50 22.55
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1770	354000	23.50 22.43
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	23.50 22.46
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1720	344000	23.50 22.44
7	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	1745	349000	23.50 22.62
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.50 22.67
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.50 21.51
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.50 19.62
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	23.50 22.48
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.00 22.23
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.50 20.53
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.50 17.43
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	23.50 22.53
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	23.50 22.54
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	23.50 22.51
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	23.50 22.47
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	23.50 22.54
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	23.50 22.52
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	23.50 22.59
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	23.50 22.51
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	23.50 22.49
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	23.50 22.50

No.	Test Freq Description	5G-n66						Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	23.00 22.31
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	23.00 22.32
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	23.00 22.21
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1770	354000	23.00 22.16
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	23.00 22.13
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1720	344000	23.00 22.18
7	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	1745	349000	23.00 22.26
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.00 22.28
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.50 21.33
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.50 19.31
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	23.00 22.45
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.00 21.86
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.50 20.36
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.50 17.54
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	23.00 21.88
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	23.00 21.86
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	23.00 21.81
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	23.00 21.79
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	23.00 22.29
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	23.00 22.26
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	23.00 21.89
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	23.00 22.26
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	23.00 22.24
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	23.00 22.25

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	24.00	23.05
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	24.00	23.13
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	24.00	23.11
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1770	354000	24.00	23.02
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	24.00	23.05
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1720	344000	24.00	23.03
7	Middle	15	5	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12_6	1745	349000	24.00	23.06
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	24.00	23.06
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.50	21.56
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.50	19.84
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	23.50	22.64
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.00	22.10
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.50	20.58
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.50	17.55
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	24.00	22.68
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	24.00	22.66
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	24.00	22.60
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	24.00	22.58
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	24.00	23.10
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	24.00	23.07
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	24.00	22.69
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	24.00	23.07
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	24.00	23.05
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	24.00	23.06

No.	Test Freq Description	5G-n71							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	695.5	139100	22.50	21.41
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	680.5	136100	22.50	21.45
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	665.5	133100	22.50	21.41
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	688	137600	22.50	21.32
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	680.5	136100	22.50	21.36
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	673	134600	22.50	21.42
7	Middle	15	5	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12_6	680.5	136100	22.50	21.39
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	680.5	136100	22.50	21.40
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	680.5	136100	22.50	21.42
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	680.5	136100	20.50	19.38
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	680.5	136100	22.50	21.31
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	680.5	136100	22.50	21.47
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	680.5	136100	21.50	20.24
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	680.5	136100	18.50	17.30
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	680.5	136100	22.50	21.45
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	680.5	136100	22.50	21.39
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	680.5	136100	22.50	21.33
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	680.5	136100	22.50	21.33
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	680.5	136100	22.50	21.41
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	680.5	136100	22.50	21.37
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	680.5	136100	22.50	21.40
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	680.5	136100	22.50	21.42
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	680.5	136100	22.50	21.41

No.	Test Freq Description	5G-n71							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	695.5	139100	19.50 18.47
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	680.5	136100	19.50 18.50
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	665.5	133100	19.50 18.46
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	688	137600	19.50 18.38
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	680.5	136100	19.50 18.42
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	673	134600	19.50 18.48
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	680.5	136100	19.50 18.45
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	680.5	136100	19.50 18.46
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	680.5	136100	19.50 18.48
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	680.5	136100	19.50 18.44
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	680.5	136100	19.50 18.38
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	680.5	136100	19.50 18.52
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	680.5	136100	19.50 18.37
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	680.5	136100	18.50 17.40
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	680.5	136100	19.50 18.50
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	680.5	136100	19.50 18.45
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	680.5	136100	19.50 18.40
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	680.5	136100	19.50 18.40
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	680.5	136100	19.50 18.47
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	680.5	136100	19.50 18.43
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	680.5	136100	19.50 18.46
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	680.5	136100	19.50 18.48
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	680.5	136100	19.50 18.47

No.	Test Freq Description	5G-n41							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2679.99	535998	13.5 12.66
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	13.5 12.58
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	13.5 12.38
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	13.5 12.42
5	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2506.02	501204	13.5 12.55
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	13.5 12.44
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	13.5 12.26
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	13.5 12.21
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	13.5 12.17
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	13.5 12.22
11	Middle2	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	2592.99	518598	13.5 12.33
12	Middle2	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	13.5 12.29
13	Middle2	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	13.5 12.37
14	Middle2	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	13.5 12.36
15	Middle2	30	20	CP-OFDM QPSK	Inner_Full	25_12	2592.99	518598	13.5 12.35
16	Middle2	30	20	CP-OFDM 16QAM	Inner_Full	25_12	2592.99	518598	13.5 12.34
17	Middle2	30	20	CP-OFDM 64QAM	Inner_Full	25_12	2592.99	518598	13.5 12.31
18	Middle2	30	20	CP-OFDM 256QAM	Inner_Full	25_12	2592.99	518598	13.5 12.38
19	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2592.99	518598	13.5 12.42
20	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	13.5 12.37
21	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	2592.99	518598	13.5 12.45
22	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	13.5 12.36
23	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	2592.99	518598	13.5 12.46
24	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	13.5 12.35
25	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2592.99	518598	13.5 12.32
26	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	13.5 12.37
27	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	13.5 12.35
28	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	13.5 12.36
29	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	13.5 12.34
30	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	13.5 12.31
31	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	13.5 12.32

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm) n41
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2679.99	535998	18	17.18
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	18	17.16
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	18	17.20
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	18	17.19
5	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2506.02	501204	18	17.16
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	18	17.02
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	18	17.01
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	18	17.04
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	18	17.03
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	18	17.01
11	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	18	17.18
12	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	18	17.19
13	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	18	17.18
14	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	18	17.19
15	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	18	17.19
16	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	18	17.14
17	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	18	17.14
18	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	18	17.16
19	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	18	17.18
20	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	18	17.16
21	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	18	17.13
22	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	18	17.18
23	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	18	17.13
24	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	18	17.19
25	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	25_0	2592.99	518598	18	17.18
26	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	18	17.17
27	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	18	17.18
28	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	18	17.17
29	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	18	17.16
30	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	18	17.18
31	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	18	17.19

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm) n41
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2679.99	535998	16.5	15.59
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	16.5	15.57
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	16.5	15.63
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	16.5	15.60
5	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2506.02	501204	16.5	15.57
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	16.5	15.44
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	16.5	15.43
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	16.5	15.46
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	16.5	15.45
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	16.5	15.43
11	Middle2	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2592.99	518598	16.5	15.59
12	Middle2	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	16.5	15.60
13	Middle2	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	16.5	15.59
14	Middle2	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	16.5	15.60
15	Middle2	30	10	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	16.5	15.60
16	Middle2	30	10	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	16.5	15.55
17	Middle2	30	10	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	16.5	15.55
18	Middle2	30	10	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	16.5	15.57
19	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2_22	2592.99	518598	16.5	15.59
20	Middle	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	16.5	15.57
21	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1_23	2592.99	518598	16.5	15.54
22	Middle	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2592.99	518598	16.5	15.59
23	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	2592.99	518598	16.5	15.54
24	Middle	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2592.99	518598	16.5	15.60
25	Middle	30	10	DFT-s-OFDM QPSK	Outer_Full	25_0	2592.99	518598	16.5	15.59
26	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	16.5	15.58
27	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	16.5	15.59
28	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	16.5	15.58
29	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	16.5	15.57
30	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	16.5	15.59
31	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	16.5	15.60

No.	Test Freq Description	5G-n77								Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.			
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3540	636000	22.50	22.02	
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	22.50	22.08	
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3460.02	630668	22.50	21.95	
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3499.98	633332	22.50	21.67	
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	22.50	21.82	
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3500.01	633334	22.50	22.05	
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	22.50	21.92	
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	22.50	21.87	
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	22.50	21.50	
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	3500.01	633334	22.50	21.96	
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	22.50	21.93	
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	22.50	21.90	
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	22.50	20.47	
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	3500.01	633334	22.50	22.04	
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3500.01	633334	22.50	21.97	
16	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3500.01	633334	22.50	22.00	
17	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3500.01	633334	22.50	22.03	
18	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3500.01	633334	22.50	22.05	
19	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3500.01	633334	22.50	21.96	
20	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3500.01	633334	22.50	21.99	
23	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	22.50	22.00	
24	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3500.01	633334	22.50	21.97	
25	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	22.50	21.93	
26	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	22.50	21.96	

No.	Test Freq Description	5G-n77								Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.			
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3540	636000	21.50	20.08	
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	21.50	20.14	
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3460.02	630668	21.50	20.02	
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3499.98	633332	21.50	19.87	
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	21.50	19.96	
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3500.01	633334	21.50	20.11	
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	21.50	20.00	
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	21.50	20.07	
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	21.50	20.07	
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	3500.01	633334	21.50	20.03	
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	21.50	20.01	
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	21.50	20.11	
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	21.50	20.00	
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	3500.01	633334	21.50	20.10	
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3500.01	633334	21.50	20.04	
16	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3500.01	633334	21.50	20.06	
17	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3500.01	633334	21.50	20.09	
18	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3500.01	633334	21.50	20.11	
19	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3500.01	633334	21.50	20.03	
20	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3500.01	633334	21.50	20.05	
23	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	21.50	20.05	
24	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3500.01	633334	21.50	20.04	
25	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	21.50	20.00	
26	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	21.50	20.03	

No.	Test Freq Description	5G-n77							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3540	636000	16.50	15.49
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	16.50	15.53
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3460.02	630668	16.50	15.48
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3499.98	633332	16.50	15.48
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	16.50	15.51
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3500.01	633334	16.50	15.49
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	16.50	15.44
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	16.50	15.27
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	16.50	15.53
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	3500.01	633334	16.50	15.42
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	16.50	15.46
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	16.50	15.47
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	16.50	15.50
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_—50	3500.01	633334	16.50	15.43
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3500.01	633334	16.50	15.50
16	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3500.01	633334	16.50	15.42
17	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3500.01	633334	16.50	15.40
18	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3500.01	633334	16.50	15.41
19	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3500.01	633334	16.50	15.49
20	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3500.01	633334	16.50	15.34
23	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	16.50	15.46
24	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3500.01	633334	16.50	15.44
25	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	16.50	15.44
26	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	16.50	15.46

No.	Test Freq Description	5G-n77							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3540	636000	14.50	13.53
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	14.50	13.56
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3460.02	630668	14.50	13.52
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3499.98	633332	14.50	13.52
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	14.50	13.54
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3500.01	633334	14.50	13.53
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	14.50	13.48
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	14.50	13.44
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	14.50	13.45
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	3500.01	633334	14.50	13.46
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	14.50	13.49
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	14.50	13.51
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	14.50	13.54
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_—50	3500.01	633334	14.50	13.47
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3500.01	633334	14.50	13.54
16	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3500.01	633334	14.50	13.46
17	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3500.01	633334	14.50	13.45
18	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3500.01	633334	14.50	13.45
19	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3500.01	633334	14.50	13.53
20	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3500.01	633334	14.50	13.40
23	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3500.01	633334	14.50	13.49
24	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3500.01	633334	14.50	13.48
25	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3500.01	633334	14.50	13.48
26	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3500.01	633334	14.50	13.49

No.	Test Freq Description	5G-n77							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3969.990	664666	22.50	21.62
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3918.000	661200	22.50	21.78
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3866.000	657733	22.50	21.96
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3814.000	654267	22.50	22.07
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3762.000	650800	22.50	21.94
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3710.010	647334	22.50	21.67
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3930.000	662000	22.50	21.43
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3894.000	659600	22.50	21.54
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3858.000	657200	22.50	21.52
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3822.000	654800	22.50	21.73
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3786.000	652400	22.50	21.61
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750.000	650000	22.50	21.58
13	Middle-3	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3814.000	654267	22.50	22.10
14	Middle-3	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3814.000	654267	22.50	22.16
15	Middle-3	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3814.000	654267	22.50	22.16
16	Middle-3	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3814.000	654267	22.50	21.81
17	Middle-3	30	20	CP-OFDM QPSK	Inner_Full	25_12	3814.000	654267	22.50	22.12
18	Middle-3	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3814.000	654267	22.50	22.21
19	Middle-3	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3814.000	654267	22.50	22.08
20	Middle-3	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3814.000	654267	22.50	20.57
21	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3814.000	654267	22.50	22.22
22	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3814.000	654267	22.50	22.10
23	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3814.000	654267	22.50	22.07
24	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3814.000	654267	22.50	22.09
25	Middle-3	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3814.000	654267	22.50	22.09
26	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3814.000	654267	22.50	22.09
27	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	3814.000	654267	22.50	22.13
28	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3814.000	654267	22.50	22.13
29	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3814.000	654267	22.50	22.09
30	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3814.000	654267	22.50	22.11
31	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3814.000	654267	22.50	22.16

No.	Test Freq Description	5G-n77							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3969.990	664666	21.50	19.91
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3918.000	661200	21.50	19.90
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3866.000	657733	21.50	20.09
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3814.000	654267	21.50	20.11
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3762.000	650800	21.50	20.06
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3710.010	647334	21.50	19.87
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3930.000	662000	21.50	19.86
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3894.000	659600	21.50	19.88
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3858.000	657200	21.50	19.84
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3822.000	654800	21.50	19.83
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3786.000	652400	21.50	19.82
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750.000	650000	21.50	19.89
13	Middle-3	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3814.000	654267	21.50	20.05
14	Middle-3	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3814.000	654267	21.50	20.06
15	Middle-3	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3814.000	654267	21.50	20.00
16	Middle-3	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3814.000	654267	21.50	20.09
17	Middle-3	30	20	CP-OFDM QPSK	Inner_Full	25_12	3814.000	654267	21.50	19.98
18	Middle-3	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3814.000	654267	21.50	20.00
19	Middle-3	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3814.000	654267	21.50	19.97
20	Middle-3	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3814.000	654267	21.50	19.37
21	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3814.000	654267	21.50	19.94
22	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3814.000	654267	21.50	19.96
23	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3814.000	654267	21.50	19.98
24	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3814.000	654267	21.50	19.93
25	Middle-3	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3814.000	654267	21.50	19.99
26	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3814.000	654267	21.50	19.96
27	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	3814.000	654267	21.50	19.98
28	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3762.000	650800	21.50	19.94
29	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3762.000	650800	21.50	19.90
30	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3762.000	650800	21.50	19.92
31	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3762.000	650800	21.50	19.96

No.	Test Freq Description	5G-n77							Power Results (dBm)	
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test Ch.	Tune up	
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3969.990	664666	16.50	15.47
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3918.000	661200	16.50	15.48
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3866.000	657733	16.50	15.44
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3814.000	654267	16.50	15.49
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3762.000	650800	16.50	15.50
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3710.010	647334	16.50	15.46
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3930.000	662000	16.50	15.47
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3894.000	659600	16.50	16.24
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3858.000	657200	16.50	15.45
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3822.000	654800	16.50	15.46
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3786.000	652400	16.50	15.43
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750.000	650000	16.50	15.43
13	Middle-3	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3762.000	650800	16.50	15.55
14	Middle-3	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3762.000	650800	16.50	15.48
15	Middle-3	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3762.000	650800	16.50	15.42
16	Middle-3	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3762.000	650800	16.50	15.46
17	Middle-3	30	20	CP-OFDM QPSK	Inner_Full	25_12	3762.000	650800	16.50	15.48
18	Middle-3	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3762.000	650800	16.50	15.42
19	Middle-3	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3762.000	650800	16.50	15.41
20	Middle-3	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3762.000	650800	16.50	15.44
21	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3762.000	650800	16.50	15.44
22	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3762.000	650800	16.50	15.47
23	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3762.000	650800	16.50	15.48
24	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3762.000	650800	16.50	15.44
25	Middle-3	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3762.000	650800	16.50	15.46
26	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3762.000	650800	16.50	15.47
27	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	3762.000	650800	16.50	15.49
28	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3762.000	650800	16.50	15.48
29	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3762.000	650800	16.50	15.45
30	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3762.000	650800	16.50	15.46
31	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3762.000	650800	16.50	15.43

No.	Test Freq Description	5G-n77							Power Results (dBm)	
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test Ch.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3969.990	664666	14.50	13.52
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3918.000	661200	14.50	13.50
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3866.000	657733	14.50	13.49
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3814.000	654267	14.50	13.53
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3762.000	650800	14.50	13.54
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3710.010	647334	14.50	13.51
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3930.000	662000	14.50	13.52
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3894.000	659600	14.50	14.19
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3858.000	657200	14.50	13.50
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3822.000	654800	14.50	13.51
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3786.000	652400	14.50	13.40
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750.000	650000	14.50	13.47
13	Middle-3	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3762.000	650800	14.50	13.59
14	Middle-3	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3762.000	650800	14.50	13.52
15	Middle-3	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3762.000	650800	14.50	13.46
16	Middle-3	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3762.000	650800	14.50	13.51
17	Middle-3	30	20	CP-OFDM QPSK	Inner_Full	25_12	3762.000	650800	14.50	13.52
18	Middle-3	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3762.000	650800	14.50	13.46
19	Middle-3	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3762.000	650800	14.50	13.42
20	Middle-3	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3762.000	650800	14.50	13.43
21	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3762.000	650800	14.50	13.49
22	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3762.000	650800	14.50	13.52
23	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3762.000	650800	14.50	13.44
24	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3762.000	650800	14.50	13.49
25	Middle-3	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3762.000	650800	14.50	13.51
26	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3762.000	650800	14.50	13.52
27	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	3762.000	650800	14.50	13.53
28	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3762.000	650800	14.50	13.52
29	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3762.000	650800	14.50	13.50
30	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3762.000	650800	14.50	13.51
31	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3762.000	650800	14.50	13.47

No.	Test Freq Description	5G-n2						Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	25.00 23.82
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	25.00 23.90
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	25.00 23.85
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	25.00 23.75
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	25.00 23.79
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	25.00 23.80
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	25.00 23.84
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	24.00 23.00
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	22.50 21.30
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	20.50 19.41
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	23.50 22.30
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	23.00 21.92
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	21.50 20.66
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.50 17.43
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	24.00 22.86
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	24.00 22.98
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	24.00 22.88
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	24.00 22.93
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	25.00 23.85
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	25.00 23.87
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	24.00 22.91
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	25.00 23.88
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	25.00 23.81

No.	Test Freq Description	5G-n2						Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	25.00 24.19
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	25.00 24.31
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	25.00 24.13
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	25.00 23.92
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	25.00 24.12
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	25.00 24.15
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	25.00 24.19
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	24.00 23.17
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	22.50 21.81
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	20.50 19.65
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	23.50 22.68
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	23.00 22.18
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	21.50 20.71
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.50 17.64
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	24.00 23.13
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	24.00 23.27
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	24.00 23.24
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	24.00 23.23
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	25.00 24.26
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	25.00 24.25
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	24.00 23.14
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	25.00 24.14
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	25.00 24.11

No.	Test Freq Description	5G-n5							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	25.00	23.91
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	25.00	23.92
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	25.00	23.76
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	25.00	23.85
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	25.00	23.90
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	25.00	23.91
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	25.00	23.87
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	24.00	23.00
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	22.50	21.34
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	20.50	19.44
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	23.50	22.23
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	23.00	21.85
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	21.50	20.43
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	18.50	17.47
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	24.00	22.97
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	24.00	23.01
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	24.00	22.85
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	24.00	23.04
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	25.00	23.83
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	25.00	23.90
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	24.00	22.83
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	25.00	23.84
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	25.00	23.88

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	25.00	23.85
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	25.00	23.88
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	25.00	23.76
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	25.00	23.10
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	25.00	23.72
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	25.00	23.70
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	25.00	23.83
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	24.00	22.92
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.50	21.19
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.50	19.31
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	23.50	22.23
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	23.00	21.87
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.50	20.30
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.50	17.38
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	24.00	22.90
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	24.00	22.95
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	24.00	22.83
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	24.00	22.89
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	25.00	23.87
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	25.00	23.83
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	24.00	22.90
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	25.00	23.80
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	25.00	23.82

No.	Test Freq Description	5G-n25							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1912.5	382500	25.00	24.26
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1882.5	376500	25.00	24.38
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	25.00	24.20
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1905	381000	25.00	23.99
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1882.5	376500	25.00	24.19
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	25.00	24.22
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1882.5	376500	25.00	24.26
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	24.00	23.23
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	22.50	21.87
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	20.50	19.70
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1882.5	376500	23.50	22.74
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1882.5	376500	23.00	22.24
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1882.5	376500	21.50	20.76
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1882.5	376500	18.50	17.68
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1882.5	376500	24.00	23.19
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1882.5	376500	24.00	23.34
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1882.5	376500	24.00	23.30
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1882.5	376500	24.00	23.29
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1882.5	376500	25.00	24.33
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1882.5	376500	25.00	24.32
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1882.5	376500	24.00	23.20
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1882.5	376500	25.00	24.21
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1882.5	376500	25.00	24.18

No.	Test Freq Description	5G-n26							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	25.00	23.99
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	831.5	166300	25.00	24.06
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	816.5	163300	25.00	24.16
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	25.00	23.92
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	831.5	166300	25.00	23.93
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	824	164800	25.00	24.02
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	816.5	163300	25.00	24.15
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	816.5	163300	24.00	23.31
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	816.5	163300	22.50	21.7
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	816.5	163300	20.50	19.68
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	816.5	163300	23.50	22.69
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	816.5	163300	23.00	22.12
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	816.5	163300	21.50	20.71
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	816.5	163300	18.50	17.61
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	816.5	163300	24.00	23.19
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	816.5	163300	24.00	23.18
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	816.5	163300	24.00	23.26
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	816.5	163300	24.00	23.19
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	816.5	163300	25.00	24.14
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	816.5	163300	25.00	24.15
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	816.5	163300	24.00	23.22
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	831.5	166300	25.00	24.02
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	831.5	166300	25.00	23.85

No.	Test Freq Description	5G-n30						Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2312.5	462500	25.00
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2310	462000	25.00
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2307.5	461500	25.00
4	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2310	462000	25.00
5	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2310	462000	25.00
6	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2310	462000	24.00
7	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2310	462000	22.50
8	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2310	462000	20.50
9	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2310	462000	23.50
10	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2310	462000	23.00
11	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2310	462000	21.50
12	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2310	462000	18.50
13	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2310	462000	24.00
14	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2310	462000	24.00
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2310	462000	23.18
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2310	462000	24.00
17	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2310	462000	25.00
18	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2310	462000	25.00
19	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2310	462000	24.00

No.	Test Freq Description	5G-n30						Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2312.5	462500	25.00
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2310	462000	25.00
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	2307.5	461500	25.00
4	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2310	462000	25.00
5	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	2310	462000	25.00
6	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	2310	462000	24.00
7	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	2310	462000	22.50
8	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	2310	462000	20.50
9	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	2310	462000	23.50
10	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	2310	462000	23.00
11	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	2310	462000	21.50
12	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	2310	462000	18.50
13	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	2310	462000	24.00
14	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2310	462000	24.00
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	2310	462000	24.15
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	2310	462000	24.00
17	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	2310	462000	25.00
18	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	2310	462000	25.00
19	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	2310	462000	24.00

No.	Test Freq Description	5G-n41							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2679.99	535998	26.50	25.03
2	Middle1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2636.49	527298	26.50	25.00
3	Middle2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2592.99	518598	26.50	25.05
4	Middle3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2549.505	509901	26.50	24.95
5	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	2506.02	501204	26.50	25.01
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2640	528000	26.50	25.01
7	Middle1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2616.495	523299	26.50	25.02
8	Middle2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2592.99	518598	26.50	24.73
9	Middle3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2569.5	513900	26.50	24.68
10	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	2546.01	509202	26.50	24.75
11	Middle2	30	20	DFT-s-OFDM PI2/BPSK1	Inner_Full	12_6	2592.99	518598	26.50	25.04
12	Middle2	30	20	DFT-s-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	25.50	24.86
13	Middle2	30	20	DFT-s-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	24.00	23.25
14	Middle2	30	20	DFT-s-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	22.00	21.20
15	Middle2	30	20	CP-OFDM QPSK	Inner_Full	12_6	2592.99	518598	25.00	24.27
16	Middle2	30	20	CP-OFDM 16QAM	Inner_Full	12_6	2592.99	518598	24.50	23.75
17	Middle2	30	20	CP-OFDM 64QAM	Inner_Full	12_6	2592.99	518598	23.00	22.18
18	Middle2	30	20	CP-OFDM 256QAM	Inner_Full	12_6	2592.99	518598	20.00	19.82
19	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	2592.99	518598	23.00	22.11
20	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	2592.99	518598	23.00	21.92
21	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_49	2592.99	518598	23.00	22.12
22	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_1	2592.99	518598	23.00	22.26
23	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_0	2592.99	518598	26.50	25.02
24	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_50	2592.99	518598	26.50	24.97
25	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	2592.99	518598	25.50	24.02
26	Middle2	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	2592.99	518598	26.50	25.03
27	Middle2	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	2592.99	518598	26.50	25.04
28	Middle2	30	50	DFT-s-OFDM QPSK	Inner_Full	64_32	2592.99	518598	26.50	24.92
29	Middle2	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	2592.99	518598	26.50	24.85
30	Middle2	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	2592.99	518598	26.50	25.03
31	Middle2	30	90	DFT-s-OFDM QPSK	Inner_Full	120_60	2592.99	518598	26.50	24.89

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	25.00	23.88
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	25.00	23.96
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	25.00	23.94
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1770	354000	25.00	23.85
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	25.00	23.88
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1720	344000	25.00	23.86
7	Middle	15	5	DFT-s-OFDM PI2/BPSK1	Inner_Full	12_6	1745	349000	25.00	23.94
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	24.00	23.13
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.50	21.39
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.50	19.53
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	23.50	22.41
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.00	22.02
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.50	20.53
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.50	17.55
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	24.00	23.02
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	24.00	23.03
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	24.00	23.00
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	24.00	22.96
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	25.00	23.95
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	25.00	23.93
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	24.00	22.94
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	25.00	23.92
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	25.00	23.90
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	25.00	23.91

No.	Test Freq Description	5G-n66							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	25.00	24.47
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	25.00	24.49
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	25.00	24.41
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1770	354000	25.00	24.19
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	25.00	24.40
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1720	344000	25.00	24.43
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	25.00	24.47
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	24.00	23.43
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	22.50	22.04
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	20.50	19.83
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	23.50	22.93
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	23.00	22.42
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	21.50	20.92
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.50	17.78
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	24.00	23.39
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	24.00	23.53
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	24.00	23.50
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	24.00	23.49
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	25.00	24.54
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	25.00	24.53
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	24.00	23.40
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	25.00	24.42
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	25.00	24.39
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	25.00	24.35

No.	Test Freq Description	5G-n70							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1707.5	341500	25.00	23.94
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1702.5	340500	25.00	23.92
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1697.5	339500	25.00	23.89
4	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1702.5	340500	25.00	23.79
5	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1702.5	340500	25.00	23.84
6	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1702.5	340500	24.00	22.97
7	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1702.5	340500	22.50	21.23
8	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1702.5	340500	20.50	19.39
9	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1702.5	340500	23.50	22.30
10	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1702.5	340500	23.00	21.91
11	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1702.5	340500	21.50	20.37
12	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1702.5	340500	18.50	17.44
13	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1702.5	340500	24.00	22.92
14	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1702.5	340500	24.00	22.95
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1702.5	340500	24.00	22.94
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1702.5	340500	24.00	22.90
17	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1702.5	340500	25.00	23.92
18	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1702.5	340500	25.00	23.92
19	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1702.5	340500	24.00	22.96
20	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1702.5	340500	25.00	23.80

No.	Test Freq Description	5G-n71							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	695.5	139100	25.00	23.91
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	680.5	136100	25.00	23.95
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	665.5	133100	25.00	23.90
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	688	137600	25.00	23.80
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	680.5	136100	25.00	23.85
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	673	134600	25.00	23.92
7	Middle	15	5	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12_6	680.5	136100	25.00	23.92
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	680.5	136100	24.00	23.01
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	680.5	136100	22.50	21.30
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	680.5	136100	20.50	19.50
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	680.5	136100	23.50	22.35
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	680.5	136100	23.00	21.98
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	680.5	136100	21.50	20.50
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	680.5	136100	18.50	17.50
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	680.5	136100	24.00	22.90
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	680.5	136100	24.00	22.84
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	680.5	136100	24.00	22.77
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	680.5	136100	24.00	22.77
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	680.5	136100	25.00	23.86
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	680.5	136100	25.00	23.81
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	680.5	136100	24.00	22.85
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	680.5	136100	25.00	23.90
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	680.5	136100	25.00	23.86
No.	Test Freq Description	5G-n77							Tune up	Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3540	636000	26.00	25.18
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3500.01	633334	26.00	25.28
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3460.02	630668	26.00	25.27
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3499.98	633332	26.00	25.18
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3500.01	633334	26.00	25.20
6	Middle	30	20	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	25_12	3500.01	633334	26.00	25.27
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	25.00	24.10
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	23.50	22.61
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	21.50	20.78
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25_12	3500.01	633334	24.50	23.93
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3500.01	633334	24.00	22.86
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3500.01	633334	22.50	21.82
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3500.01	633334	19.50	18.80
14	Middle	30	20	DFT-s-OFDM Pi/2 BPSK1	Edge_1RB_Right	1_—50	3500.01	633334	22.50	21.80
15	Middle	30	20	DFT-s-OFDM Pi/2 BPSK1	Edge_1RB_Left	1_0	3500.01	633334	22.50	21.90
16	Middle	30	20	DFT-s-OFDM Pi/2 BPSK1	Edge_Full_Right	2_49	3500.01	633334	22.50	21.86
17	Middle	30	20	DFT-s-OFDM Pi/2 BPSK1	Edge_Full_Left	2_0	3500.01	633334	22.50	21.84
18	Middle	30	20	DFT-s-OFDM Pi/2 BPSK1	Inner_1RB_Right	1_49	3500.01	633334	26.00	24.80
19	Middle	30	20	DFT-s-OFDM Pi/2 BPSK1	Inner_1RB_Left	1_1	3500.01	633334	26.00	24.50
20	Middle	30	20	DFT-s-OFDM Pi/2 BPSK1	Outer_Full	50_0	3500.01	633334	25.00	23.66
23	Middle-5	30	30	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	36_18	3500.01	633334	26.00	25.24
24	Middle-5	30	40	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	50_25	3500.01	633334	26.00	25.25
25	Middle-5	30	60	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	81_40	3500.01	633334	26.00	25.23
26	Middle-5	30	80	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	108_54	3500.01	633334	26.00	25.20

No.	Test Freq Description	5G-n77							Power Results (dBm)	
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test Ch.		
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3969.990	664666	25.50	24.04
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3918.000	661200	25.50	24.93
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3866.000	657733	25.50	25.02
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3814.000	654267	25.50	25.01
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3762.000	650800	25.50	25.29
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3710.010	647334	25.50	24.98
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3930.000	662000	25.50	24.02
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3894.000	659600	25.50	24.45
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3858.000	657200	25.50	24.04
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3822.000	654800	25.50	24.03
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3786.000	652400	25.50	24.04
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135_67	3750.000	650000	25.50	24.15
13	Middle-3	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25_12	3762.000	650800	26.00	25.20
14	Middle-3	30	20	DFT-s-OFDM 16QAM	Inner_Full	25_12	3762.000	650800	25.00	23.84
15	Middle-3	30	20	DFT-s-OFDM 64QAM	Inner_Full	25_12	3762.000	650800	23.50	22.81
16	Middle-3	30	20	DFT-s-OFDM 256QAM	Inner_Full	25_12	3762.000	650800	21.50	20.86
17	Middle-3	30	20	CP-OFDM QPSK	Inner_Full	25_12	3762.000	650800	24.50	23.87
18	Middle-3	30	20	CP-OFDM 16QAM	Inner_Full	25_12	3762.000	650800	24.00	22.90
19	Middle-3	30	20	CP-OFDM 64QAM	Inner_Full	25_12	3762.000	650800	22.50	21.73
20	Middle-3	30	20	CP-OFDM 256QAM	Inner_Full	25_12	3762.000	650800	19.50	18.94
21	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2_49	3762.000	650800	22.50	21.93
22	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	3762.000	650800	22.50	21.86
23	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1_49	3762.000	650800	26.00	24.63
24	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3762.000	650800	26.00	24.77
25	Middle-3	30	20	DFT-s-OFDM QPSK	Outer_Full	50_0	3762.000	650800	25.00	23.81
26	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	3762.000	650800	22.50	21.88
27	Middle-3	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	1_50	3762.000	650800	22.50	21.83
28	Middle-5	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3762.000	650800	26.00	24.61
29	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50_25	3762.000	650800	26.00	24.06
30	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81_40	3762.000	650800	26.00	24.15
31	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108_54	3762.000	650800	26.00	24.11

11.5 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 9.66dBm.

The maximum tune up of BT antenna is 10dBm.

WIFI 2.4G

Power rating	Channel	tune up
802.11b-1M	1	21.5
	6	21.5
	11	21.5
802.11g-6M	1	20
	6	20
	11	20
802.11n-20M	1	20
	6	20
	11	20
802.11n-HT40-MCS0	3	19
	6	19
	9	19

WIFI 5G

Power rating	Channel	tune up
802.11a-6M	36-48	20
	52-64	20
	100	18.5
	104-136	20
	140	18.5
	144-165	20.5
802.11n-HT20-MCS0	36	19.5
	40-48	20
	52-64	20
	100	18
	104-136	20
	140	17
	144-165	20
802.11n-HT40-MCS0	38	14
	46-58	19
	62	14.5
	102	18
	110-159	19

802.11ac-VHT20-MCS0	36	19.5
	40-48	20
	52-64	20
	100	18
	104-136	20
	140	17
	149-165	20
802.11ac-VHT40-MCS0	38	14
	46-58	19
	62	14
	102	18
	106-142	19
	151-159	19
802.11ac-VHT80M-MCS0	42	13.5
	58	14
	106	13.5
	122-138	18
	155	18

2.4G-WIFI mode Reduce Power for head or Body

Mode	Band	tune up
head	802.11b-1M	11.5
	802.11g-6M	11.5
	802.11n-20M	11.5
	802.11n-HT40-MCS0	11.5
Body	802.11b-1M	18
	802.11g-6M	18
	802.11n-20M	18
	802.11n-HT40-MCS0	19

5G-WIFI mode Reduce Power for head or Body

Mode	Band	tune up
Head	802.11a-6M	12.5
	802.11n-HT20-MCS0	12.5
	802.11n-HT40-MCS0	12.5
	802.11ac-VHT20-MCS0	12.5
	802.11ac-VHT40-MCS0	12.5
	802.11ac-VHT80M-MCS0	12.5
	802.11a-6M	11
	802.11n-HT20-MCS0	11
	802.11n-HT40-MCS0	11
	802.11ac-VHT20-MCS0	11

Body	802.11ac-VHT40-MCS0	11
	802.11ac-VHT80M-MCS0	11

The average conducted power for Wi-Fi 2.4G is as following:

2.4GHz		
802.11b	Channel\data rate	1Mbps
WLAN2450	11(2462MHz)	20.85
	6(2437MHz)	20.77
	1(2412MHz)	20.33
Tune up		21.50
802.11g	Channel\data rate	6Mbps
WLAN2450	11(2462MHz)	20.49
	6(2437MHz)	20.35
	1(2412MHz)	20.18
Tune up		21.00
802.11n-20MHz	Channel\data rate	MCS0
WLAN2450	11(2462MHz)	20.06
	6(2437MHz)	20.18
	1(2412MHz)	20.09
Tune up		21.00
802.11n-40MHz	Channel\data rate	MCS0
WLAN2450	9(2452MHz)	20.66
	6(2437MHz)	20.93
	3(2422MHz)	20.64
Tune up		21.00

2.4GHz		
802.11b	Channel\data rate	1Mbps
WLAN2450	11(2462MHz)	10.46
	6(2437MHz)	10.20
	1(2412MHz)	10.04
Tune up		11.50
802.11g	Channel\data rate	6Mbps
WLAN2450	11(2462MHz)	10.53
	6(2437MHz)	10.73
	1(2412MHz)	10.42
Tune up		11.50
802.11n-20MHz	Channel\data rate	MCS0
WLAN2450	11(2462MHz)	10.33

	6(2437MHz)	10.54
	1(2412MHz)	10.23
Tune up		11.50
802.11n-40MHz	Channel\data rate	MCS0
	9(2452MHz)	11.37
WLAN2450	6(2437MHz)	11.41
	3(2422MHz)	11.39
Tune up		11.50

2.4GHz		
802.11b	Channel\data rate	1Mbps
	11(2462MHz)	17.46
WLAN2450	6(2437MHz)	17.33
	1(2412MHz)	17.11
Tune up		18.00
802.11g	Channel\data rate	6Mbps
WLAN2450	11(2462MHz)	17.26
	6(2437MHz)	17.31
	1(2412MHz)	16.90
Tune up		18.00
802.11n-20MHz	Channel\data rate	MCS0
WLAN2450	11(2462MHz)	17.04
	6(2437MHz)	17.18
	1(2412MHz)	16.72
Tune up		18.00
802.11n-40MHz	Channel\data rate	MCS0
WLAN2450	9(2452MHz)	18.48
	6(2437MHz)	18.82
	3(2422MHz)	18.42
Tune up		19.00

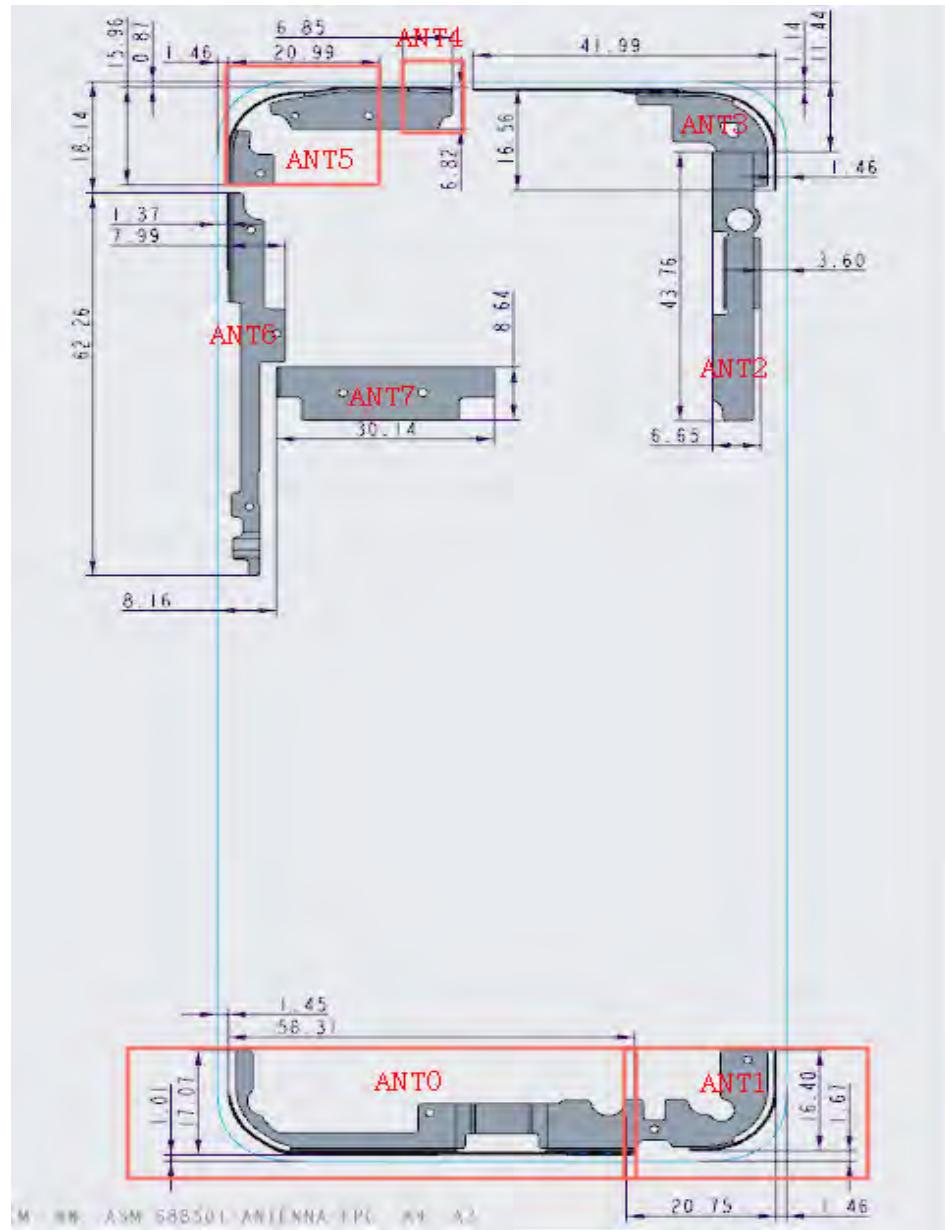
12 Simultaneous TX SAR Considerations

12.1 Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

12.2 Transmit Antenna Separation Distances



Rear view

Picture 12.1 Antenna Locations

12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
ANT0	Yes	Yes	Yes	Yes	No	Yes
ANT1	Yes	Yes	Yes	No	No	Yes
ANT3	Yes	Yes	Yes	No	Yes	No
ANT4	Yes	Yes	No	Yes	Yes	No
ANT5	Yes	Yes	No	Yes	Yes	No

14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom.

The distance is 10 mm and just applied to the condition of body worn accessory.

It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-g SAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or more than 1.2W/kg.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where P_{Target} is the power of manufacturing upper limit;

P_{Measured} is the measured power in chapter 11.

Table 14.1: Duty Cycle

Mode	Duty Cycle
GSM850/1900	1:8.3
GPRS850/1900	1:2
WCDMA<E FDD&5G NR	1:1
LTE TDD	1:1.58 or 1:2.37

14.1 SAR results for 2G/3G/4G

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)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	GSM850 ANT0	190	836.6	/	Left Cheek	0mm	\	31.96	33.50	0.255	0.36	0.155	0.22	-0.21
Head	GSM850 ANT0	190	836.6	/	Left Tilt	0mm	\	31.96	33.50	0.151	0.22	0.101	0.14	-0.16
Head	GSM850 ANT0	190	836.6	/	Right Cheek	0mm	\	31.96	33.50	0.290	0.41	0.193	0.27	0.11
Head	GSM850 ANT0	128	824.2	/	Right Cheek	0mm	\	32.31	33.50	0.221	0.29	0.139	0.18	0.18
Head	GSM850 ANT0	251	848.8	/	Right Cheek	0mm	Fig.A1	32.32	33.50	0.329	0.43	0.210	0.28	-0.08
Head	GSM850 ANT0	190	836.6	/	Right Tilt	0mm	\	31.96	33.50	0.208	0.30	0.136	0.19	0.30
Body	GSM850 ANT0	190	836.6	GPRS(2TX)	Front	10mm	\	30.26	31.50	0.234	0.31	0.104	0.14	-0.27
Body	GSM850 ANT0	251	848.8	GPRS(2TX)	Rear	10mm	Fig.A2	30.20	31.50	0.510	0.69	0.212	0.29	0.06
Body	GSM850 ANT0	190	836.6	GPRS(2TX)	Rear	10mm	\	30.26	31.50	0.425	0.57	0.179	0.24	0.13
Body	GSM850 ANT0	128	824.2	GPRS(2TX)	Rear	10mm	\	30.28	31.50	0.358	0.47	0.153	0.20	-0.24
Body	GSM850 ANT0	190	836.6	GPRS(2TX)	Left Edge	10mm	\	30.26	31.50	0.094	0.13	0.045	0.06	0.14
Body	GSM850 ANT0	190	836.6	GPRS(2TX)	Right Edge	10mm	\	30.26	31.50	0.198	0.26	0.094	0.13	0.18
Body	GSM850 ANT0	190	836.6	GPRS(2TX)	Bottom Edge	10mm	\	30.26	31.50	0.327	0.43	0.116	0.15	0.17
Body	GSM850 ANT0	251	848.8	EGPRS(2TX)	Rear	10mm	\	30.22	31.50	0.450	0.60	0.199	0.27	0.00
Head	GSM1900 ANT1	661	1880	/	Left Cheek	0mm	Fig.A3	28.86	30.50	0.286	0.42	0.218	0.32	-0.04
Head	GSM1900 ANT1	810	1909.8	/	Left Cheek	0mm	\	28.71	30.50	0.238	0.36	0.183	0.28	-0.11
Head	GSM1900 ANT1	512	1850.2	/	Left Cheek	0mm	\	28.72	30.50	0.252	0.38	0.188	0.28	0.09
Head	GSM1900 ANT1	661	1880	/	Left Tilt	0mm	\	28.86	30.50	0.175	0.26	0.131	0.19	-0.15
Head	GSM1900 ANT1	661	1880	/	Right Cheek	0mm	\	28.86	30.50	0.248	0.36	0.190	0.28	-0.19
Head	GSM1900 ANT1	661	1880	/	Right Tilt	0mm	\	28.86	30.50	0.151	0.22	0.106	0.16	0.13
Body	GSM1900 ANT1	661	1880	GPRS(1TX)	Front	10mm	\	26.58	27.50	0.400	0.49	0.169	0.21	-0.24
Body	GSM1900 ANT1	661	1880	GPRS(1TX)	Rear	10mm	Fig.A4	26.58	27.50	0.648	0.80	0.259	0.32	0.25
Body	GSM1900 ANT1	810	1909.8	GPRS(1TX)	Rear	10mm	\	26.59	27.50	0.637	0.79	0.259	0.32	-0.06
Body	GSM1900 ANT1	512	1850.2	GPRS(1TX)	Rear	10mm	\	26.56	27.50	0.630	0.78	0.253	0.31	-0.23
Body	GSM1900 ANT1	661	1880	GPRS(1TX)	Left Edge	10mm	\	26.58	27.50	0.320	0.40	0.122	0.15	-0.06
Body	GSM1900 ANT1	661	1880	GPRS(1TX)	Top Edge	10mm	\	26.58	27.50	0.063	0.08	0.026	0.03	0.28
Body	GSM1900 ANT1	810	1909.8	EGPRS(1TX)	Rear	10mm	\	26.43	27.50	0.619	0.79	0.247	0.32	0.06

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)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	WCDMA1900 ANT1	9400	1880	RMC	Left Cheek	0mm	\	23.16	24.00	0.605	0.73	0.384	0.47	0.11
Head	WCDMA1900 ANT1	9262	1852.4	RMC	Left Cheek	0mm	Fig.A5	23.05	24.00	0.615	0.77	0.389	0.48	-0.20
Head	WCDMA1900 ANT1	9538	1907.6	RMC	Left Cheek	0mm	\	23.08	24.00	0.501	0.62	0.317	0.39	-0.21
Head	WCDMA1900 ANT1	9400	1880	RMC	Left Tilt	0mm	\	23.16	24.00	0.336	0.41	0.212	0.26	0.13
Head	WCDMA1900 ANT1	9400	1880	RMC	Right Cheek	0mm	\	23.16	24.00	0.455	0.55	0.290	0.35	-0.07
Head	WCDMA1900 ANT1	9400	1880	RMC	Right Tilt	0mm	\	23.16	24.00	0.295	0.36	0.180	0.22	-0.11
Body	WCDMA1900 ANT1	9400	1880	RMC	Front	16mm	\	23.16	24.00	0.442	0.54	0.298	0.36	0.01
Body	WCDMA1900 ANT1	9400	1880	RMC	Rear	22mm	\	23.16	24.00	0.345	0.42	0.228	0.28	0.27
Body	WCDMA1900 ANT1	9400	1880	RMC	Left Edge	13mm	\	23.16	24.00	0.632	0.77	0.411	0.50	-0.08
Body	WCDMA1900 ANT1	9538	1907.6	RMC	Left Edge	13mm	\	23.08	24.00	0.640	0.79	0.361	0.45	-0.18
Body	WCDMA1900 ANT1	9262	1852.4	RMC	Left Edge	13mm	Fig.A6	23.05	24.00	0.690	0.86	0.400	0.50	0.11
Body	WCDMA1900 ANT1	9400	1880	RMC	Top Edge	10mm	\	23.16	24.00	0.111	0.13	0.071	0.09	0.13
Body	WCDMA1900 ANT1	9400	1880	RMC	Front	10mm	\	22.65	23.50	0.357	0.43	0.231	0.28	-0.10
Body	WCDMA1900 ANT1	9400	1880	RMC	Rear	10mm	\	22.65	23.50	0.594	0.72	0.370	0.45	0.14
Body	WCDMA1900 ANT1	9262	1852.4	RMC	Left Edge	10mm	\	22.65	23.50	0.502	0.61	0.371	0.45	0.11
Head	WCDMA1700 ANT1	1412	1732.4	RMC	Left Cheek	0mm	\	23.03	24.00	0.341	0.43	0.229	0.29	0.10
Head	WCDMA1700 ANT1	1412	1732.4	RMC	Left Tilt	0mm	\	23.03	24.00	0.219	0.27	0.146	0.18	0.07
Head	WCDMA1700 ANT1	1412	1732.4	RMC	Right Cheek	0mm	\	23.03	24.00	0.350	0.44	0.222	0.28	0.28
Head	WCDMA1700 ANT1	1312	1712.4	RMC	Right Cheek	0mm	\	23.04	24.00	0.334	0.42	0.210	0.26	-0.21
Head	WCDMA1700 ANT1	1513	1752.6	RMC	Right Cheek	0mm	Fig.A7	23.11	24.00	0.376	0.46	0.237	0.29	-0.12
Head	WCDMA1700 ANT1	1412	1732.4	RMC	Right Tilt	0mm	\	23.03	24.00	0.282	0.35	0.169	0.21	0.27
Body	WCDMA1700 ANT1	1412	1732.5	RMC	Front	16mm	\	23.03	24.00	0.372	0.47	0.263	0.33	0.30
Body	WCDMA1700 ANT1	1412	1732.5	RMC	Rear	22mm	\	23.03	24.00	0.309	0.39	0.220	0.28	-0.12
Body	WCDMA1700 ANT1	1412	1732.5	RMC	Left Edge	13mm	\	23.03	24.00	0.500	0.63	0.280	0.35	0.22
Body	WCDMA1700 ANT1	1513	1752.6	RMC	Left Edge	13mm	Fig.A8	23.11	24.00	0.651	0.80	0.394	0.48	0.05
Body	WCDMA1700 ANT1	1312	1712.4	RMC	Left Edge	13mm	\	23.04	24.00	0.509	0.63	0.300	0.37	0.15
Body	WCDMA1700 ANT1	1412	1732.5	RMC	Top Edge	10mm	\	23.03	24.00	0.062	0.08	0.041	0.05	-0.01
Body	WCDMA1700 ANT1	1412	1732.5	RMC	Front	10mm	\	22.96	23.50	0.345	0.39	0.235	0.27	0.11
Body	WCDMA1700 ANT1	1412	1732.5	RMC	Rear	10mm	\	22.96	23.50	0.626	0.71	0.399	0.45	0.30
Body	WCDMA1700 ANT1	1513	1752.6	RMC	Left Edge	10mm	\	22.96	23.50	0.574	0.65	0.371	0.42	0.11
Head	WCDMA 850 ANTO	4183	836.6	RMC	Left Cheek	0mm	\	23.11	25.00	0.274	0.42	0.204	0.32	0.28
Head	WCDMA 850 ANTO	4183	836.6	RMC	Left Tilt	0mm	\	23.11	25.00	0.166	0.26	0.135	0.21	-0.22
Head	WCDMA 850 ANTO	4183	836.6	RMC	Right Cheek	0mm	Fig.A9	23.11	25.00	0.299	0.46	0.231	0.36	0.21
Head	WCDMA 850 ANTO	4132	826.4	RMC	Right Cheek	0mm	\	23.10	25.00	0.255	0.39	0.197	0.31	-0.23
Head	WCDMA 850 ANTO	4233	846.6	RMC	Right Cheek	0mm	\	23.14	25.00	0.271	0.42	0.210	0.32	0.25
Head	WCDMA 850 ANTO	4183	836.6	RMC	Right Tilt	0mm	\	23.11	25.00	0.211	0.33	0.168	0.26	0.03
Body	WCDMA 850 ANTO	4183	836.6	RMC	Front	10mm	\	23.11	25.00	0.382	0.59	0.245	0.38	0.09
Body	WCDMA 850 ANTO	4233	846.6	RMC	Rear	10mm	\	23.11	25.00	0.624	0.96	0.366	0.56	0.27
Body	WCDMA 850 ANTO	4183	836.6	RMC	Rear	10mm	Fig.A10	23.11	25.00	0.635	0.98	0.375	0.58	-0.30
Body	WCDMA 850 ANTO	4132	826.4	RMC	Rear	10mm	\	23.10	25.00	0.562	0.87	0.333	0.52	0.19
Body	WCDMA 850 ANTO	4183	836.6	RMC	Left Edge	10mm	\	23.11	25.00	0.075	0.12	0.050	0.08	-0.11
Body	WCDMA 850 ANTO	4183	836.6	RMC	Right Edge	10mm	\	23.11	25.00	0.182	0.28	0.124	0.19	0.14
Body	WCDMA 850 ANTO	4183	836.6	RMC	Bottom Edge	10mm	\	23.11	25.00	0.416	0.64	0.214	0.33	0.03

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)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	LTE Band2 ANT3	18900	1880	1RB-Low	Left Cheek	0mm	\	19.45	20.00	0.278	0.32	0.150	0.17	-0.30
Head	LTE Band2 ANT3	18900	1880	1RB-Low	Left Tilt	0mm	\	19.45	20.00	0.378	0.43	0.183	0.21	-0.06
Head	LTE Band2 ANT3	18900	1880	1RB-Low	Right Cheek	0mm	\	19.45	20.00	0.475	0.54	0.235	0.27	0.03
Head	LTE Band2 ANT3	18900	1880	1RB-Low	Right Tilt	0mm	\	19.45	20.00	0.642	0.73	0.291	0.33	0.17
Head	LTE Band2 ANT3	18900	1880	50RB-Middle	Left Cheek	0mm	\	19.55	20.00	0.343	0.38	0.175	0.19	0.14
Head	LTE Band2 ANT3	18900	1880	50RB-Middle	Left Tilt	0mm	\	19.55	20.00	0.456	0.51	0.206	0.23	0.17
Head	LTE Band2 ANT3	18900	1880	50RB-Middle	Right Cheek	0mm	\	19.55	20.00	0.513	0.57	0.250	0.28	-0.17
Head	LTE Band2 ANT3	18900	1880	50RB-Middle	Right Tilt	0mm	Fig.A11	19.55	20.00	0.665	0.74	0.301	0.33	0.12
Body	LTE Band2 ANT3	18900	1880	1RB-Low	Front	21mm	\	24.13	24.50	0.115	0.13	0.069	0.08	-0.02
Body	LTE Band2 ANT3	18900	1880	1RB-Low	Rear	23mm	\	24.13	24.50	0.112	0.12	0.068	0.07	-0.26
Body	LTE Band2 ANT3	18900	1880	1RB-Low	Left Edge	10mm	\	24.13	24.50	0.133	0.15	0.076	0.08	0.00
Body	LTE Band2 ANT3	18900	1880	1RB-Low	Top Edge	24mm	Fig.A12	24.13	24.50	0.212	0.23	0.126	0.14	-0.10
Body	LTE Band2 ANT3	18900	1880	50RB-Middle	Front	21mm	\	23.27	23.50	0.061	0.06	0.036	0.04	-0.28
Body	LTE Band2 ANT3	18900	1880	50RB-Middle	Rear	23mm	\	23.27	23.50	0.071	0.08	0.044	0.05	-0.23
Body	LTE Band2 ANT3	18900	1880	50RB-Middle	Left Edge	10mm	\	23.27	23.50	0.084	0.09	0.048	0.05	-0.08
Body	LTE Band2 ANT3	18900	1880	50RB-Middle	Top Edge	24mm	\	23.27	23.50	0.135	0.14	0.081	0.08	0.02
Body	LTE Band2 ANT3	18900	1880	1RB-Middle	Front	10mm	\	17.97	19.00	0.052	0.07	0.028	0.04	-0.17
Body	LTE Band2 ANT3	18900	1880	1RB-Middle	Rear	10mm	\	17.97	19.00	0.068	0.09	0.037	0.05	-0.24
Body	LTE Band2 ANT3	18900	1880	1RB-Middle	Top Edge	10mm	\	17.97	19.00	0.085	0.11	0.044	0.06	0.08
Body	LTE Band2 ANT3	18900	1880	50RB-Middle	Front	10mm	\	18.08	19.00	0.050	0.06	0.027	0.03	0.25
Body	LTE Band2 ANT3	18900	1880	50RB-Middle	Rear	10mm	\	18.08	19.00	0.069	0.08	0.037	0.05	0.08
Body	LTE Band2 ANT3	18900	1880	50RB-Middle	Top Edge	10mm	\	18.08	19.00	0.085	0.10	0.044	0.05	0.01
Head	LTE Band12 ANT0	23130	711	1RB-Low	Left Cheek	0mm	\	24.16	24.50	0.278	0.30	0.224	0.24	0.22
Head	LTE Band12 ANT0	23130	711	1RB-Low	Left Tilt	0mm	\	24.16	24.50	0.163	0.18	0.129	0.14	0.09
Head	LTE Band12 ANT0	23130	711	1RB-Low	Right Cheek	0mm	Fig.A13	24.16	24.50	0.291	0.31	0.222	0.24	-0.15
Head	LTE Band12 ANT0	23130	711	1RB-Low	Right Tilt	0mm	\	24.16	24.50	0.201	0.22	0.158	0.17	0.11
Head	LTE Band12 ANT0	23130	711	25RB-Low	Left Cheek	0mm	\	23.21	23.50	0.082	0.09	0.065	0.07	-0.02
Head	LTE Band12 ANT0	23130	711	25RB-Low	Left Tilt	0mm	\	23.21	23.50	0.141	0.15	0.103	0.11	-0.02
Head	LTE Band12 ANT0	23130	711	25RB-Low	Right Cheek	0mm	\	23.21	23.50	0.161	0.17	0.122	0.13	0.18
Body	LTE Band12 ANT0	23130	711	1RB-Low	Front	10mm	\	24.16	24.50	0.182	0.20	0.136	0.15	-0.11
Body	LTE Band12 ANT0	23130	711	1RB-Low	Rear	10mm	Fig.A14	24.16	24.50	0.300	0.32	0.181	0.20	0.08
Body	LTE Band12 ANT0	23130	711	1RB-Low	Left Edge	10mm	\	24.16	24.50	0.167	0.18	0.112	0.12	-0.21
Body	LTE Band12 ANT0	23130	711	1RB-Low	Right Edge	10mm	\	24.16	24.50	0.268	0.29	0.183	0.20	-0.27
Body	LTE Band12 ANT0	23130	711	1RB-Low	Bottom Edge	10mm	\	24.16	24.50	0.233	0.25	0.113	0.12	0.17
Body	LTE Band12 ANT0	23130	711	25RB-Low	Front	10mm	\	23.21	23.50	0.107	0.11	0.080	0.09	0.13
Body	LTE Band12 ANT0	23130	711	25RB-Low	Rear	10mm	\	23.21	23.50	0.179	0.19	0.108	0.12	-0.13
Body	LTE Band12 ANT0	23130	711	25RB-Low	Left Edge	10mm	\	23.21	23.50	0.093	0.10	0.063	0.07	-0.10
Body	LTE Band12 ANT0	23130	711	25RB-Low	Right Edge	10mm	\	23.21	23.50	0.153	0.16	0.104	0.11	-0.20
Body	LTE Band12 ANT0	23130	711	25RB-Low	Bottom Edge	10mm	\	23.21	23.50	0.136	0.15	0.066	0.07	0.30
Head	LTE Band14 ANT0	23330	793	1RB-Low	Left Cheek	0mm	\	24.19	24.50	0.136	0.15	0.099	0.11	-0.27
Head	LTE Band14 ANT0	23330	793	1RB-Low	Left Tilt	0mm	\	24.19	24.50	0.149	0.16	0.118	0.13	0.28
Head	LTE Band14 ANT0	23330	793	1RB-Low	Right Cheek	0mm	Fig.A15	24.19	24.50	0.251	0.27	0.189	0.20	-0.04
Head	LTE Band14 ANT0	23330	793	1RB-Low	Right Tilt	0mm	\	24.19	24.50	0.170	0.18	0.131	0.14	-0.05
Head	LTE Band14 ANT0	23330	793	25RB-High	Left Cheek	0mm	\	23.06	23.50	0.140	0.16	0.103	0.11	0.14
Head	LTE Band14 ANT0	23330	793	25RB-High	Left Tilt	0mm	\	23.06	23.50	0.098	0.11	0.077	0.09	0.03
Head	LTE Band14 ANT0	23330	793	25RB-High	Right Cheek	0mm	\	23.06	23.50	0.160	0.18	0.121	0.13	0.11
Head	LTE Band14 ANT0	23330	793	25RB-High	Right Tilt	0mm	\	23.06	23.50	0.109	0.12	0.084	0.09	-0.12
Body	LTE Band14 ANT0	23330	793	1RB-Low	Front	10mm	\	24.19	24.50	0.193	0.21	0.122	0.13	-0.26
Body	LTE Band14 ANT0	23330	793	1RB-Low	Rear	10mm	Fig.A16	24.19	24.50	0.392	0.42	0.229	0.25	-0.18
Body	LTE Band14 ANT0	23330	793	1RB-Low	Left Edge	10mm	\	24.19	24.50	0.126	0.14	0.087	0.09	-0.12
Body	LTE Band14 ANT0	23330	793	1RB-Low	Right Edge	10mm	\	24.19	24.50	0.217	0.23	0.148	0.16	0.18
Body	LTE Band14 ANT0	23330	793	1RB-Low	Bottom Edge	10mm	\	24.19	24.50	0.255	0.27	0.141	0.15	-0.27
Body	LTE Band14 ANT0	23330	793	25RB-High	Front	10mm	\	23.06	23.50	0.138	0.15	0.087	0.10	0.13
Body	LTE Band14 ANT0	23330	793	25RB-High	Rear	10mm	\	23.06	23.50	0.257	0.28	0.156	0.17	0.10
Body	LTE Band14 ANT0	23330	793	25RB-High	Left Edge	10mm	\	23.06	23.50	0.082	0.09	0.055	0.06	-0.28
Body	LTE Band14 ANT0	23330	793	25RB-High	Right Edge	10mm	\	23.06	23.50	0.134	0.15	0.093	0.10	-0.22
Body	LTE Band14 ANT0	23330	793	25RB-High	Bottom Edge	10mm	\	23.06	23.50	0.163	0.18	0.090	0.10	0.21

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)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	LTE Band25 ANT1	26590	1905	1RB-Low	Left Cheek	0mm	Fig.A17	24.02	24.50	0.498	0.56	0.313	0.35	0.02
Head	LTE Band25 ANT1	26590	1905	1RB-Low	Left Tilt	0mm	\	24.02	24.50	0.240	0.27	0.149	0.17	0.04
Head	LTE Band25 ANT1	26590	1905	1RB-Low	Right Cheek	0mm	\	24.02	24.50	0.400	0.45	0.253	0.28	0.30
Head	LTE Band25 ANT1	26590	1905	1RB-Low	Right Tilt	0mm	\	24.02	24.50	0.262	0.29	0.155	0.17	0.23
Head	LTE Band25 ANT1	26365	1882.5	50RB-Middle	Left Cheek	0mm	\	23.28	23.50	0.326	0.34	0.206	0.22	-0.08
Head	LTE Band25 ANT1	26365	1882.5	50RB-Middle	Left Tilt	0mm	\	23.28	23.50	0.238	0.27	0.137	0.15	0.00
Head	LTE Band25 ANT1	26365	1882.5	50RB-Middle	Right Cheek	0mm	\	23.28	23.50	0.267	0.28	0.169	0.18	-0.30
Head	LTE Band25 ANT1	26365	1882.5	50RB-Middle	Right Tilt	0mm	\	23.28	23.50	0.171	0.18	0.103	0.11	0.01
Body	LTE Band25 ANT1	26590	1905	1RB-Low	Front	16mm	\	24.02	24.50	0.189	0.21	0.123	0.14	-0.08
Body	LTE Band25 ANT1	26590	1905	1RB-Low	Rear	22mm	\	24.02	24.50	0.127	0.14	0.084	0.09	0.00
Body	LTE Band25 ANT1	26590	1905	1RB-Low	Left Edge	10mm	\	24.02	24.50	0.238	0.27	0.137	0.15	0.00
Body	LTE Band25 ANT1	26590	1905	1RB-Low	Bottom Edge	19mm	\	24.02	24.50	0.145	0.16	0.091	0.10	0.02
Body	LTE Band25 ANT1	26365	1882.5	50RB-Middle	Front	16mm	\	23.28	23.50	0.094	0.10	0.061	0.06	0.10
Body	LTE Band25 ANT1	26365	1882.5	50RB-Middle	Rear	22mm	\	23.28	23.50	0.122	0.13	0.080	0.08	-0.19
Body	LTE Band25 ANT1	26365	1882.5	50RB-Middle	Left Edge	10mm	\	23.28	23.50	0.151	0.16	0.086	0.09	0.05
Body	LTE Band25 ANT1	26365	1882.5	50RB-Middle	Bottom Edge	19mm	\	23.28	23.50	0.089	0.09	0.056	0.06	0.01
Body	LTE Band25 ANT1	26590	1905	1RB-Middle	Front	10mm	\	20.97	23.00	0.184	0.29	0.119	0.19	0.10
Body	LTE Band25 ANT1	26590	1905	1RB-Middle	Rear	10mm	Fig.A18	20.97	23.00	0.303	0.48	0.183	0.29	-0.15
Body	LTE Band25 ANT1	26590	1905	1RB-Middle	Bottom Edge	10mm	\	20.97	23.00	0.245	0.39	0.147	0.23	-0.07
Body	LTE Band25 ANT1	26140	1860	50RB-Middle	Front	10mm	\	21.13	23.00	0.154	0.24	0.098	0.15	0.25
Body	LTE Band25 ANT1	26140	1860	50RB-Middle	Rear	10mm	\	21.13	23.00	0.219	0.34	0.134	0.21	-0.07
Body	LTE Band25 ANT1	26140	1860	50RB-Middle	Bottom Edge	10mm	\	21.13	23.00	0.122	0.19	0.072	0.11	-0.02
Body	LTE Band25 ANT1	26590	1905	1RB-Middle	Front	10mm	\	17.92	23.00	0.041	0.13	0.025	0.08	0.03
Body	LTE Band25 ANT1	26590	1905	1RB-Middle	Rear	10mm	\	17.92	23.00	0.064	0.21	0.039	0.13	0.13
Body	LTE Band25 ANT1	26590	1905	1RB-Middle	Bottom Edge	10mm	\	17.92	23.00	0.036	0.12	0.021	0.07	0.02
Body	LTE Band25 ANT1	26140	1860	50RB-Middle	Front	10mm	\	18.08	23.00	0.037	0.11	0.024	0.07	0.10
Body	LTE Band25 ANT1	26140	1860	50RB-Middle	Rear	10mm	\	18.08	23.00	0.061	0.19	0.037	0.12	0.08
Body	LTE Band25 ANT1	26140	1860	50RB-Middle	Bottom Edge	10mm	\	18.08	23.00	0.048	0.15	0.029	0.09	0.21
Head	LTE Band26 ANT0	26775	822.5	1RB-Low	Left Cheek	0mm	\	23.99	24.50	0.269	0.30	0.193	0.22	-0.05
Head	LTE Band26 ANT0	26775	822.5	1RB-Low	Left Tilt	0mm	\	23.99	24.50	0.163	0.18	0.127	0.14	-0.12
Head	LTE Band26 ANT0	26775	822.5	1RB-Low	Right Cheek	0mm	Fig.A19	23.99	24.50	0.274	0.31	0.205	0.23	0.11
Head	LTE Band26 ANT0	26775	822.5	1RB-Low	Right Tilt	0mm	\	23.99	24.50	0.206	0.23	0.159	0.18	-0.20
Head	LTE Band26 ANT0	26775	822.5	36RB-Low	Left Cheek	0mm	\	23.11	23.50	0.157	0.17	0.112	0.12	-0.27
Head	LTE Band26 ANT0	26775	822.5	36RB-Low	Left Tilt	0mm	\	23.11	23.50	0.094	0.10	0.073	0.08	0.03
Head	LTE Band26 ANT0	26775	822.5	36RB-Low	Right Cheek	0mm	\	23.11	23.50	0.159	0.17	0.118	0.13	-0.21
Head	LTE Band26 ANT0	26775	822.5	36RB-Low	Right Tilt	0mm	\	23.11	23.50	0.117	0.13	0.088	0.10	-0.14
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Front	10mm	\	23.99	24.50	0.257	0.29	0.158	0.18	0.09
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Rear	10mm	Fig.A20	23.99	24.50	0.456	0.51	0.266	0.30	-0.20
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Left Edge	10mm	\	23.99	24.50	0.129	0.15	0.087	0.10	-0.12
Body	LTE Band26 ANT0	26965	841.5	1RB-Low	Right Edge	10mm	\	23.99	24.50	0.200	0.23	0.135	0.15	0.27
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Bottom Edge	10mm	\	23.99	24.50	0.274	0.31	0.153	0.17	0.01
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Front	10mm	\	23.11	23.50	0.152	0.17	0.095	0.10	0.23
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Rear	10mm	\	23.11	23.50	0.266	0.29	0.157	0.17	-0.25
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Left Edge	10mm	\	23.11	23.50	0.074	0.08	0.050	0.05	-0.07
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Right Edge	10mm	\	23.11	23.50	0.109	0.12	0.074	0.08	0.29
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Bottom Edge	10mm	\	23.11	23.50	0.164	0.18	0.091	0.10	0.12
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Front	16mm	\	23.99	24.50	0.193	0.22	0.152	0.17	0.29
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Rear	20mm	\	23.99	24.50	0.188	0.21	0.169	0.19	-0.14
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Left Edge	10mm	\	23.99	24.50	0.104	0.12	0.086	0.10	-0.02
Body	LTE Band26 ANT0	26965	841.5	1RB-Low	Right Edge	10mm	Fig.A21	23.99	24.50	0.226	0.25	0.187	0.21	-0.27
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Bottom Edge	19mm	\	23.99	24.50	0.110	0.12	0.086	0.10	-0.28
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Front	16mm	\	23.11	23.50	0.116	0.13	0.104	0.11	0.22
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Rear	20mm	\	23.11	23.50	0.108	0.12	0.097	0.11	0.13
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Left Edge	10mm	\	23.11	23.50	0.078	0.09	0.064	0.07	0.24
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Right Edge	10mm	\	23.11	23.50	0.125	0.14	0.104	0.11	0.15
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Bottom Edge	19mm	\	23.11	23.50	0.064	0.07	0.050	0.05	-0.22
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Front	10mm	\	20.95	21.50	0.127	0.14	0.098	0.11	-0.12
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Rear	10mm	\	20.95	21.50	0.205	0.23	0.149	0.17	-0.30
Body	LTE Band26 ANT0	26775	822.5	1RB-Low	Bottom Edge	10mm	\	20.95	21.50	0.116	0.13	0.082	0.09	-0.23
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Front	10mm	\	21.00	21.50	0.115	0.13	0.089	0.10	-0.30
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Rear	10mm	\	21.00	21.50	0.201	0.23	0.147	0.16	-0.01
Body	LTE Band26 ANT0	26775	822.5	36RB-Low	Bottom Edge	10mm	\	21.00	21.50	0.121	0.14	0.085	0.10	0.12

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)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	LTE Band30 ANT3	27710	2310	1RB-Low	Left Cheek	0mm	\	19.19	20.50	0.085	0.11	0.048	0.07	0.21
Head	LTE Band30 ANT3	27710	2310	1RB-Low	Left Tilt	0mm	\	19.19	20.50	0.103	0.14	0.053	0.07	0.30
Head	LTE Band30 ANT3	27710	2310	1RB-Low	Right Cheek	0mm	\	19.19	20.50	0.299	0.40	0.153	0.21	-0.11
Head	LTE Band30 ANT3	27710	2310	1RB-Low	Right Tilt	0mm	Fig.A22	19.19	20.50	0.347	0.47	0.162	0.22	-0.29
Head	LTE Band30 ANT3	27710	2310	25RB-High	Left Cheek	0mm	\	19.27	20.50	0.101	0.13	0.051	0.07	-0.28
Head	LTE Band30 ANT3	27710	2310	25RB-High	Left Tilt	0mm	\	19.27	20.50	0.087	0.12	0.048	0.06	-0.28
Head	LTE Band30 ANT3	27710	2310	25RB-High	Right Cheek	0mm	\	19.27	20.50	0.266	0.35	0.139	0.18	-0.21
Head	LTE Band30 ANT3	27710	2310	25RB-High	Right Tilt	0mm	\	19.27	20.50	0.308	0.41	0.144	0.19	0.00
Body	LTE Band30 ANT3	27710	2310	1RB-Low	Front	21mm	\	23.85	24.50	0.051	0.06	0.028	0.03	-0.03
Body	LTE Band30 ANT3	27710	2310	1RB-Low	Rear	23mm	\	23.85	24.50	0.053	0.06	0.029	0.03	0.17
Body	LTE Band30 ANT3	27710	2310	1RB-Low	Left Edge	17mm	\	23.85	24.50	0.145	0.17	0.073	0.08	-0.23
Body	LTE Band30 ANT3	27710	2310	1RB-Low	Top Edge	24mm	\	23.85	24.50	0.057	0.07	0.029	0.03	0.21
Body	LTE Band30 ANT3	27710	2310	25RB-High	Front	21mm	\	22.83	23.50	0.035	0.04	0.019	0.02	-0.05
Body	LTE Band30 ANT3	27710	2310	25RB-High	Rear	23mm	\	22.83	23.50	0.033	0.04	0.019	0.02	0.03
Body	LTE Band30 ANT3	27710	2310	25RB-High	Left Edge	17mm	\	22.83	23.50	0.067	0.08	0.036	0.04	0.09
Body	LTE Band30 ANT3	27710	2310	25RB-High	Top Edge	24mm	\	22.83	23.50	0.034	0.04	0.017	0.02	0.20
Body	LTE Band30 ANT3	27710	2310	1RB-Low	Front	10mm	\	20.87	22.00	0.179	0.23	0.093	0.12	0.12
Body	LTE Band30 ANT3	27710	2310	1RB-Low	Rear	10mm	Fig.A23	20.87	22.00	0.266	0.35	0.132	0.17	0.12
Body	LTE Band30 ANT3	27710	2310	1RB-Low	Left Edge	10mm	\	20.87	22.00	0.140	0.18	0.069	0.09	0.29
Body	LTE Band30 ANT3	27710	2310	1RB-Low	Top Edge	10mm	\	20.87	22.00	0.239	0.31	0.104	0.13	0.05
Body	LTE Band30 ANT3	27710	2310	25RB-High	Front	10mm	\	20.93	22.00	0.126	0.16	0.062	0.08	-0.23
Body	LTE Band30 ANT3	27710	2310	25RB-High	Rear	10mm	\	20.93	22.00	0.161	0.21	0.077	0.10	0.28
Body	LTE Band30 ANT3	27710	2310	25RB-High	Left Edge	10mm	\	20.93	22.00	0.102	0.13	0.051	0.06	-0.29
Body	LTE Band30 ANT3	27710	2310	25RB-High	Top Edge	10mm	\	20.93	22.00	0.141	0.18	0.061	0.08	0.09
Head	LTE Band30 ANTO	27710	2310	1RB-Low	Left Cheek	0mm	Fig.A24	23.85	24.50	0.015	0.02	0.010	0.01	-0.27
Head	LTE Band30 ANTO	27710	2310	1RB-Low	Left Tilt	0mm	\	23.85	24.50	0.013	0.02	0.009	0.01	-0.12
Head	LTE Band30 ANTO	27710	2310	1RB-Low	Right Cheek	0mm	\	23.85	24.50	0.012	0.01	0.011	0.01	-0.05
Head	LTE Band30 ANTO	27710	2310	1RB-Low	Right Tilt	0mm	\	23.85	24.50	0.011	0.01	0.008	0.01	0.23
Head	LTE Band30 ANTO	27710	2310	25RB-High	Left Cheek	0mm	\	22.83	23.50	0.012	0.01	0.010	0.01	0.21
Head	LTE Band30 ANTO	27710	2310	25RB-High	Left Tilt	0mm	\	22.83	23.50	0.012	0.01	0.009	0.01	-0.15
Head	LTE Band30 ANTO	27710	2310	25RB-High	Right Cheek	0mm	\	22.83	23.50	0.014	0.02	0.008	0.01	-0.12
Head	LTE Band30 ANTO	27710	2310	25RB-High	Right Tilt	0mm	\	22.83	23.50	0.011	0.01	0.007	0.01	-0.30
Body	LTE Band30 ANTO	27710	2310	1RB-Low	Front	16mm	\	23.85	24.50	0.446	0.52	0.229	0.27	-0.30
Body	LTE Band30 ANTO	27710	2310	1RB-Low	Rear	20mm	\	23.85	24.50	0.481	0.56	0.259	0.30	-0.15
Body	LTE Band30 ANTO	27710	2310	1RB-Low	Left Edge	10mm	\	23.85	24.50	0.036	0.04	0.018	0.02	0.00
Body	LTE Band30 ANTO	27710	2310	1RB-Low	Right Edge	10mm	\	23.85	24.50	0.220	0.26	0.144	0.17	0.16
Body	LTE Band30 ANTO	27710	2310	1RB-Low	Bottom Edge	19mm	Fig.A25	23.85	24.50	0.695	0.81	0.375	0.44	0.28
Body	LTE Band30 ANTO	27710	2310	25RB-High	Front	16mm	\	22.83	23.50	0.311	0.36	0.158	0.18	0.01
Body	LTE Band30 ANTO	27710	2310	25RB-High	Rear	20mm	\	22.83	23.50	0.335	0.39	0.181	0.21	-0.06
Body	LTE Band30 ANTO	27710	2310	25RB-High	Left Edge	10mm	\	22.83	23.50	0.000	0.00	0.000	0.00	0.14
Body	LTE Band30 ANTO	27710	2310	25RB-High	Right Edge	10mm	\	22.83	23.50	0.177	0.21	0.102	0.12	0.08
Body	LTE Band30 ANTO	27710	2310	25RB-High	Bottom Edge	19mm	\	22.83	23.50	0.496	0.58	0.268	0.31	0.07
Body	LTE Band30 ANTO	27710	2310	1RB-Low	Front	10mm	\	17.68	19.00	0.266	0.36	0.130	0.18	0.09
Body	LTE Band30 ANTO	27710	2310	1RB-Low	Rear	10mm	\	17.68	19.00	0.489	0.66	0.197	0.27	0.10
Body	LTE Band30 ANTO	27710	2310	1RB-Low	Bottom Edge	10mm	\	17.68	19.00	0.589	0.80	0.273	0.37	0.29
Body	LTE Band30 ANTO	27710	2310	25RB-High	Front	10mm	\	17.70	19.00	0.260	0.35	0.121	0.16	-0.06
Body	LTE Band30 ANTO	27710	2310	25RB-High	Rear	10mm	\	17.70	19.00	0.570	0.77	0.273	0.37	-0.20
Body	LTE Band30 ANTO	27710	2310	25RB-High	Bottom Edge	10mm	\	17.70	19.00	0.580	0.78	0.269	0.36	0.10
Head	LTE Band41 ANT3	41055	2636.5	1RB-High	Left Cheek	0mm	\	16.05	17.00	0.105	0.13	0.048	0.06	-0.15
Head	LTE Band41 ANT3	41055	2636.5	1RB-High	Left Tilt	0mm	\	16.05	17.00	0.123	0.15	0.055	0.07	-0.17
Head	LTE Band41 ANT3	41055	2636.5	1RB-High	Right Cheek	0mm	\	16.05	17.00	0.269	0.33	0.122	0.15	0.23
Head	LTE Band41 ANT3	41055	2636.5	1RB-High	Right Tilt	0mm	Fig.A26	16.05	17.00	0.292	0.36	0.129	0.16	0.23
Head	LTE Band41 ANT3	41055	2636.5	50RB-High	Left Cheek	0mm	\	16.05	17.00	0.101	0.12	0.048	0.06	0.29
Head	LTE Band41 ANT3	41055	2636.5	50RB-High	Left Tilt	0mm	\	16.05	17.00	0.109	0.14	0.048	0.06	-0.09
Head	LTE Band41 ANT3	41055	2636.5	50RB-High	Right Cheek	0mm	\	16.05	17.00	0.206	0.26	0.098	0.12	-0.12
Head	LTE Band41 ANT3	41055	2636.5	50RB-High	Right Tilt	0mm	\	16.05	17.00	0.278	0.35	0.119	0.15	-0.05
Head	LTE Band41C ANT3	39750	2506	1RB-High	Right Tilt	0mm	ULCA	16.04	17.00	0.271	0.34	0.112	0.14	0.19
Body	LTE Band41 pc3 ANT3	41055	2636.5	1RB-High	Front	21mm	\	24.84	25.00	0.126	0.13	0.073	0.08	0.19
Body	LTE Band41 pc3 ANT3	41055	2636.5	1RB-High	Rear	23mm	\	24.84	25.00	0.110	0.11	0.064	0.07	0.06
Body	LTE Band41 pc3 ANT3	41055	2636.5	1RB-High	Left Edge	17mm	\	24.84	25.00	0.139	0.14	0.081	0.08	-0.23
Body	LTE Band41 pc3 ANT3	41055	2636.5	1RB-High	Top Edge	24mm	\	24.84	25.00	0.132	0.14	0.070	0.07	0.30
Body	LTE Band41 pc3 ANT3	41055	2636.5	50RB-Middle	Front	21mm	\	23.80	24.00	0.079	0.08	0.046	0.05	-0.19
Body	LTE Band41 pc3 ANT3	41055	2636.5	50RB-Middle	Rear	23mm	\	23.80	24.00	0.070	0.07	0.040	0.04	0.18
Body	LTE Band41 pc3 ANT3	41055	2636.5	50RB-Middle	Left Edge	17mm	\	23.80	24.00	0.127	0.13	0.070	0.07	-0.08
Body	LTE Band41 pc3 ANT3	41055	2636.5	50RB-Middle	Top Edge	24mm	\	23.80	24.00	0.077	0.08	0.041	0.04	0.16
Body	LTE Band41 ANT3	41055	2636.5	1RB-High	Front	10mm	\	18.52	19.00	0.067	0.07	0.035	0.04	-0.25
Body	LTE Band41 ANT3	41055	2636.5	1RB-High	Rear	10mm	\	18.52	19.00	0.096	0.11	0.049	0.05	-0.01
Body	LTE Band41 ANT3	41055	2636.5	1RB-High	Left Edge	10mm	\	18.52	19.00	0.652	0.73	0.329	0.37	0.15
Body	LTE Band41 ANT3	41055	2636.5	1RB-High	Top Edge	10mm	\	18.52	19.00	0.115	0.13	0.048	0.05	-0.09
Body	LTE Band41 ANT3	41055	2636.5	1RB-High	Front	10mm	\	18.63	19.00	0.074	0.08	0.040	0.04	0.16
Body	LTE Band41 ANT3	41055	2636.5	1RB-High	Left Edge	10mm	\	18.63	19.00	0.101	0.11	0.050	0.05	0.17
Body	LTE Band41 ANT3	41055	2636.5	1RB-High	Top Edge	10mm	Fig.A27	18.63	19.00	0.715	0.78	0.316	0.34	0.18
Body	LTE Band41C ANT3	39750	2506	1RB-High	Top Edge	10mm	ULCA	18.21	19.00	0.601	0.72	0.209	0.25	0.11
Body	LTE Band41 pc2 ANT3	41490	2680	1RB-Low	Front	21mm	\	25.46	26.00	0.274	0.31	0.316	0.36	0.21
Body	LTE Band41 pc2 ANT3	41490	2680	1RB-Low	Rear	23mm	\	25.46	26.00	0.257	0.29	0.296	0.34	0.06
Body	LTE Band41 pc2 ANT3	41490	2680	1RB-Low	Left Edge	17mm	\	25.46	26.00	0.450	0.51	0.500	0.57	0.03
Body	LTE Band41 pc2 ANT3	41490	2680	1RB-Low	Top Edge	24mm	\	25.46	26.00	0.287				

14.2 SAR results for 5G NR

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Figure No.	Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	N2	381500	1907.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.82	25.00	0.241	0.32	0.157	0.21	0.08
Head	N2	376000	1880	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.90	25.00	0.241	0.31	0.157	0.20	-0.15
Head	N2	370500	1852.5	DFT-s-OFDM QPSK	Cheek Left	0mm	FIG A.37	SA/ENDC	23.85	25.00	0.340	0.44	0.221	0.29	-0.17
Head	N2	376000	1880	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA/ENDC	23.90	25.00	0.119	0.15	0.078	0.10	0.08
Head	N2	376000	1880	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA/ENDC	23.90	25.00	0.163	0.21	0.108	0.14	0.03
Head	N2	376000	1880	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA/ENDC	23.90	25.00	0.133	0.17	0.086	0.11	-0.03
Head	N2	376000	1880	CP-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	22.30	23.50	0.219	0.29	0.139	0.18	0.17
Body	N2	376000	1880	DFT-s-OFDM QPSK	Front	10mm	\	SA	21.35	22.00	0.273	0.32	0.161	0.19	0.13
Body	N2	376000	1880	DFT-s-OFDM QPSK	Rear	10mm	\	SA	21.35	22.00	0.536	0.62	0.318	0.37	0.09
Body	N2	376000	1880	DFT-s-OFDM QPSK	Left	10mm	\	SA	21.35	22.00	0.505	0.59	0.289	0.34	0.13
Body	N2	376000	1880	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	21.35	22.00	0.313	0.36	0.188	0.22	-0.12
Body	N2	376000	1880	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	18.31	19.00	0.130	0.15	0.077	0.09	0.15
Body	N2	376000	1880	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	18.31	19.00	0.256	0.30	0.152	0.18	0.17
Body	N2	376000	1880	DFT-s-OFDM QPSK	Left	10mm	\	ENDC	18.31	19.00	0.505	0.59	0.289	0.34	0.13
Body	N2	376000	1880	DFT-s-OFDM QPSK	Bottom	10mm	\	ENDC	18.31	19.00	0.150	0.18	0.090	0.11	-0.04
Body	N2	376000	1880	DFT-s-OFDM QPSK	Front	16mm	\	SA/ENDC	23.90	25.00	0.349	0.45	0.219	0.28	-0.11
Body	N2	376000	1880	DFT-s-OFDM QPSK	Rear	22mm	\	SA/ENDC	23.90	25.00	0.290	0.37	0.181	0.23	0.02
Body	N2	376000	1880	DFT-s-OFDM QPSK	Bottom	19mm	\	SA/ENDC	23.90	25.00	0.274	0.35	0.171	0.22	0.04
Body	N2	381500	1907.5	DFT-s-OFDM QPSK	Left	13mm	\	SA/ENDC	23.82	25.00	0.567	0.74	0.322	0.42	-0.02
Body	N2	376000	1880	DFT-s-OFDM QPSK	Left	13mm	\	SA/ENDC	23.90	25.00	0.505	0.65	0.289	0.37	0.13
Body	N2	370500	1852.5	DFT-s-OFDM QPSK	Left	13mm	FIG A.38	SA/ENDC	23.85	25.00	0.583	0.76	0.333	0.43	0.18
Body	N2	376000	1880	DFT-s-OFDM QPSK	Right	10mm	\	SA/ENDC	23.90	25.00	0.039	0.05	0.024	0.03	0.03
Body	N2	376000	1880	CP-OFDM QPSK	Left	13mm	\	SA/ENDC	22.30	23.50	0.396	0.52	0.264	0.35	-0.03
Head	N2	376000	1880	DFT-s-OFDM QPSK	Cheek Left	0mm	\	ENDC	17.22	18.00	0.341	0.41	0.204	0.24	0.19
Head	N2	376000	1880	DFT-s-OFDM QPSK	Tilt Left	0mm	\	ENDC	17.22	18.00	0.421	0.50	0.232	0.28	0.07
Head	N2	376000	1880	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	17.22	18.00	0.488	0.58	0.250	0.30	0.01
Head	N2	381500	1907.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	17.16	18.00	0.610	0.74	0.306	0.37	-0.07
Head	N2	376000	1880	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.39	ENDC	17.22	18.00	0.647	0.77	0.311	0.37	0.15
Head	N2	370500	1852.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	17.18	18.00	0.471	0.57	0.237	0.29	0.08
Head	N2	376000	1880	CP-OFDM 16QAM	Tilt Right	0mm	\	ENDC	17.10	18.00	0.583	0.72	0.294	0.36	0.02
Body	N2	376000	1880	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	20.05	21.00	0.310	0.39	0.170	0.21	-0.15
Body	N2	376000	1880	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	20.05	21.00	0.389	0.48	0.209	0.26	-0.13
Body	N2	376000	1880	DFT-s-OFDM QPSK	Left	10mm	\	ENDC	20.05	21.00	0.128	0.16	0.071	0.09	0.18
Body	N2	381500	1907.5	DFT-s-OFDM QPSK	Top	10mm	FIG A.40	ENDC	19.99	21.00	0.598	0.75	0.302	0.38	0.08
Body	N2	376000	1880	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	20.05	21.00	0.449	0.56	0.235	0.29	-0.11
Body	N2	370500	1852.5	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	20.00	21.00	0.472	0.59	0.234	0.29	-0.09
Body	N2	376000	1880	DFT-s-OFDM QPSK	Front	21mm	\	ENDC	24.31	25.00	0.314	0.37	0.195	0.23	-0.14
Body	N2	376000	1880	DFT-s-OFDM QPSK	Rear	23mm	\	ENDC	24.31	25.00	0.328	0.38	0.202	0.24	0.02
Body	N2	376000	1880	DFT-s-OFDM QPSK	Left	19mm	\	ENDC	24.31	25.00	0.169	0.20	0.102	0.12	0.03
Body	N2	376000	1880	DFT-s-OFDM QPSK	Top	24mm	\	ENDC	24.31	25.00	0.417	0.49	0.246	0.29	0.11
Body	N2	376000	1880	DFT-s-OFDM QPSK	Right	10mm	\	ENDC	24.31	25.00	0.145	0.17	0.092	0.11	0.16
Body	N2	376000	1880	CP-OFDM QPSK	Top	10mm	\	ENDC	20.04	21.00	0.418	0.52	0.251	0.31	0.13
Head	N5	167300	836.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.92	25.00	0.091	0.12	0.070	0.09	0.13
Head	N5	167300	836.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA/ENDC	23.92	25.00	0.052	0.07	0.041	0.05	-0.08
Head	N5	169300	846.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA/ENDC	23.91	25.00	0.135	0.17	0.105	0.13	-0.08
Head	N5	167300	836.5	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.41	SA/ENDC	23.92	25.00	0.195	0.25	0.153	0.20	0.18
Head	N5	165300	826.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA/ENDC	23.76	25.00	0.123	0.16	0.098	0.13	-0.08
Head	N5	167300	836.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA/ENDC	23.92	25.00	0.127	0.16	0.101	0.13	0.01
Head	N5	167300	836.5	CP-OFDM QPSK	Cheek Right	0mm	\	SA/ENDC	22.23	23.50	0.138	0.18	0.106	0.14	0.14
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Front	10mm	\	SA	23.92	25.00	0.240	0.31	0.142	0.18	-0.16
Body	N5	169300	846.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.42	SA	23.91	25.00	0.517	0.66	0.300	0.39	-0.12
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	23.92	25.00	0.478	0.61	0.288	0.37	0.09
Body	N5	165300	826.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	23.76	25.00	0.481	0.64	0.279	0.37	0.19
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	23.92	25.00	0.349	0.45	0.210	0.27	0.16
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Left	10mm	\	SA	23.92	25.00	0.046	0.06	0.034	0.04	0.17
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Right	10mm	\	SA	23.92	25.00	0.085	0.11	0.065	0.08	0.19
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	23.78	24.50	0.218	0.26	0.129	0.15	-0.17
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Rear	20mm	\	SA/ENDC	23.92	25.00	0.128	0.16	0.101	0.13	0.17
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Bottom	19mm	\	SA/ENDC	23.92	25.00	0.078	0.10	0.059	0.08	0.03
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Left	10mm	\	SA/ENDC	23.92	25.00	0.046	0.06	0.034	0.04	0.17
Body	N5	167300	836.5	DFT-s-OFDM QPSK	Right	10mm	\	SA/ENDC	23.92	25.00	0.085	0.11	0.065	0.08	0.19
Body	N5	167300	836.5	CP-OFDM QPSK	Rear	10mm	\	SA	22.37	23.50	0.429	0.56	0.238	0.31	0.14

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Figure No.	Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	N25	382500	1912.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.85	25.00	0.262	0.34	0.169	0.22	-0.04
Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.88	25.00	0.350	0.45	0.226	0.29	0.11
Head	N25	370500	1852.5	DFT-s-OFDM QPSK	Cheek Left	0mm	FIG A.43	SA/ENDC	23.76	25.00	0.355	0.47	0.230	0.31	-0.11
Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA/ENDC	23.88	25.00	0.155	0.20	0.105	0.14	-0.19
Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA/ENDC	23.88	25.00	0.221	0.29	0.141	0.18	-0.01
Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA/ENDC	23.88	25.00	0.165	0.21	0.104	0.13	0.17
Head	N25	376500	1882.5	CP-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	22.23	23.50	0.311	0.42	0.201	0.27	0.16
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	10mm	\	SA	22.25	23.00	0.417	0.50	0.255	0.30	-0.04
Body	N25	382500	1912.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	22.16	23.00	0.627	0.76	0.377	0.46	0.03
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.44	SA	22.25	23.00	0.644	0.77	0.384	0.46	-0.16
Body	N25	370500	1852.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	22.18	23.00	0.637	0.77	0.381	0.46	0.17
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Left	10mm	\	SA	22.25	23.00	0.378	0.45	0.209	0.25	0.03
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	22.25	23.00	0.337	0.40	0.206	0.24	-0.05
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	21.16	22.00	0.334	0.41	0.208	0.25	0.08
Body	N25	382500	1912.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	21.10	22.00	0.502	0.62	0.307	0.38	-0.03
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	21.16	22.00	0.506	0.61	0.303	0.37	0.04
Body	N25	370500	1852.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	21.12	22.00	0.513	0.63	0.305	0.37	0.11
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Left	10mm	\	ENDC	21.16	22.00	0.301	0.37	0.166	0.20	0.11
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Bottom	10mm	\	ENDC	21.16	22.00	0.270	0.33	0.168	0.20	-0.01
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	16mm	\	SA/ENDC	23.88	25.00	0.404	0.52	0.247	0.32	0.17
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	22mm	\	SA/ENDC	23.88	25.00	0.356	0.46	0.217	0.28	0.09
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Bottom	19mm	\	SA/ENDC	23.88	25.00	0.329	0.43	0.201	0.26	-0.10
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Left	13mm	\	SA/ENDC	23.88	25.00	0.452	0.58	0.260	0.34	0.05
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Right	10mm	\	SA/ENDC	23.88	25.00	0.048	0.06	0.028	0.04	-0.18
Body	N25	376500	1882.5	CP-OFDM QPSK	Rear	10mm	FIG A.45	SA	22.23	23.00	0.613	0.73	0.366	0.44	0.12
Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	ENDC	14.55	15.50	0.241	0.30	0.124	0.15	-0.11
Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	ENDC	14.55	15.50	0.320	0.40	0.151	0.19	0.07
Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	14.55	15.50	0.396	0.49	0.182	0.23	0.14
Head	N25	382500	1912.5	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.46	ENDC	14.44	15.50	0.535	0.68	0.236	0.30	0.19
Head	N25	376500	1882.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	14.55	15.50	0.467	0.58	0.205	0.26	0.18
Head	N25	370500	1852.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	14.48	15.50	0.407	0.51	0.180	0.23	0.19
Head	N25	376500	1882.5	CP-OFDM 64QAM	Tilt Right	0mm	\	ENDC	14.48	15.50	0.441	0.56	0.189	0.24	-0.03
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	20.20	21.00	0.325	0.39	0.179	0.22	-0.01
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	20.20	21.00	0.482	0.58	0.261	0.31	0.03
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Left	10mm	\	ENDC	20.20	21.00	0.131	0.16	0.072	0.09	-0.07
Body	N25	382500	1912.5	DFT-s-OFDM QPSK	Top	10mm	FIG A.47	ENDC	20.19	21.00	0.607	0.73	0.305	0.37	0.17
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	20.20	21.00	0.484	0.58	0.237	0.28	0.18
Body	N25	370500	1852.5	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	20.12	21.00	0.508	0.62	0.254	0.31	0.01
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Front	21mm	\	ENDC	24.38	25.00	0.300	0.35	0.184	0.21	0.13
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Rear	23mm	\	ENDC	24.38	25.00	0.322	0.37	0.192	0.22	-0.07
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Top	24mm	\	ENDC	24.38	25.00	0.384	0.44	0.225	0.26	-0.11
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Left	19mm	\	ENDC	24.38	25.00	0.187	0.22	0.113	0.13	0.07
Body	N25	376500	1882.5	DFT-s-OFDM QPSK	Right	10mm	\	ENDC	24.38	25.00	0.130	0.15	0.081	0.09	0.06
Body	N25	376500	1882.5	CP-OFDM QPSK	Top	10mm	\	ENDC	20.17	21.00	0.462	0.56	0.225	0.27	-0.09
Head	N26	163300	816.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA	24.16	25.00	0.164	0.20	0.127	0.15	0.12
Head	N26	163300	816.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	24.16	25.00	0.129	0.16	0.103	0.12	0.12
Head	N26	169300	846.5	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.48	SA	23.99	25.00	0.235	0.30	0.182	0.23	0.03
Head	N26	166300	831.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	24.06	25.00	0.224	0.28	0.175	0.22	0.19
Head	N26	163300	816.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	24.16	25.00	0.200	0.24	0.153	0.19	0.07
Head	N26	163300	816.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA	24.16	25.00	0.126	0.15	0.101	0.12	0.10
Head	N26	166300	831.5	CP-OFDM QPSK	Cheek Right	0mm	\	SA	22.69	23.50	0.193	0.23	0.151	0.18	0.03
Body	N26	163300	816.5	DFT-s-OFDM QPSK	Front	10mm	\	SA	24.16	25.00	0.170	0.21	0.107	0.13	0.05
Body	N26	169300	846.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.49	SA	23.99	25.00	0.389	0.49	0.233	0.29	-0.13
Body	N26	166300	831.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	24.06	25.00	0.355	0.44	0.217	0.27	0.06
Body	N26	163300	816.5	DFT-s-OFDM QPSK	Front	10mm	\	SA	24.16	25.00	0.300	0.36	0.183	0.22	0.04
Body	N26	163300	816.5	DFT-s-OFDM QPSK	Left	10mm	\	SA	24.16	25.00	0.055	0.07	0.038	0.05	-0.03
Body	N26	163300	816.5	DFT-s-OFDM QPSK	Right	10mm	\	SA	24.16	25.00	0.066	0.08	0.099	0.05	0.13
Body	N26	163300	816.5	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	24.16	25.00	0.334	0.41	0.201	0.24	0.04
Body	N26	166300	831.5	CP-OFDM QPSK	Rear	10mm	\	SA	22.69	23.50	0.312	0.38	0.191	0.23	0.07

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Figure No.	Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	N30	462000	2310	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA	21.30	22.00	0.233	0.27	0.123	0.14	0.15
Head	N30	462000	2310	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	21.30	22.00	0.283	0.33	0.133	0.16	-0.07
Head	N30	462000	2310	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	21.30	22.00	0.586	0.69	0.305	0.36	-0.13
Head	N30	462500	2312.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA	21.29	22.00	0.596	0.70	0.298	0.35	-0.15
Head	N30	462000	2310	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.50	SA	21.30	22.00	0.707	0.83	0.321	0.38	0.07
Head	N30	461500	2307.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA	21.27	22.00	0.647	0.77	0.319	0.38	-0.06
Head	N30	462000	2310	DFT-s-OFDM QPSK	Cheek Left	0mm	\	ENDC	18.08	19.00	0.112	0.14	0.055	0.07	0.08
Head	N30	462000	2310	DFT-s-OFDM QPSK	Tilt Left	0mm	\	ENDC	18.08	19.00	0.147	0.18	0.063	0.08	0.1
Head	N30	462000	2310	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	18.08	19.00	0.295	0.36	0.145	0.18	-0.06
Head	N30	462500	2312.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	18.07	19.00	0.336	0.42	0.151	0.19	0.13
Head	N30	462000	2310	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	18.08	19.00	0.346	0.43	0.156	0.19	0.14
Head	N30	461500	2307.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	18.05	19.00	0.383	0.48	0.170	0.21	0.07
Head	N30	462000	2310	CP-OFDM 16QAM	Tilt Right	0mm	\	SA	21.24	22.00	0.673	0.80	0.311	0.37	0.14
Body	N30	462000	2310	DFT-s-OFDM QPSK	Front	10mm	\	SA	24.27	25.00	0.326	0.39	0.180	0.21	0.09
Body	N30	462500	2312.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	24.23	25.00	0.545	0.65	0.269	0.32	-0.16
Body	N30	462000	2310	DFT-s-OFDM QPSK	Rear	10mm	\	SA	24.27	25.00	0.534	0.63	0.276	0.33	-0.11
Body	N30	461500	2307.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.51	SA	24.20	25.00	0.599	0.72	0.293	0.35	-0.16
Body	N30	462000	2310	DFT-s-OFDM QPSK	Left	10mm	\	SA	24.27	25.00	0.416	0.49	0.218	0.26	-0.17
Body	N30	462000	2310	DFT-s-OFDM QPSK	Top	10mm	\	SA	24.27	25.00	0.388	0.46	0.172	0.20	-0.17
Body	N30	462000	2310	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	21.30	22.00	0.141	0.17	0.077	0.09	0.07
Body	N30	462500	2312.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	21.29	22.00	0.236	0.28	0.117	0.14	0.04
Body	N30	462000	2310	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	21.30	22.00	0.247	0.29	0.123	0.14	-0.11
Body	N30	461500	2307.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	21.27	22.00	0.264	0.31	0.130	0.15	-0.14
Body	N30	462000	2310	DFT-s-OFDM QPSK	Left	10mm	\	ENDC	21.30	22.00	0.193	0.23	0.103	0.12	0.13
Body	N30	462000	2310	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	21.30	22.00	0.232	0.27	0.105	0.12	-0.08
Body	N30	462000	2310	DFT-s-OFDM QPSK	Front	21mm	\	SA/ENDC	24.27	25.00	0.104	0.12	0.061	0.07	0.06
Body	N30	462000	2310	DFT-s-OFDM QPSK	Rear	23mm	\	SA/ENDC	24.27	25.00	0.115	0.14	0.067	0.08	0.14
Body	N30	462000	2310	DFT-s-OFDM QPSK	Left	19mm	\	SA/ENDC	24.27	25.00	0.168	0.20	0.094	0.11	-0.03
Body	N30	462000	2310	DFT-s-OFDM QPSK	Top	24mm	\	SA/ENDC	24.27	25.00	0.118	0.14	0.065	0.08	0.18
Body	N30	462000	2310	CP-OFDM QPSK	Rear	10mm	\	SA	22.52	23.50	0.511	0.64	0.257	0.32	0.13
Head	N30	462000	2310	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA	24.96	25.00	<0.01	<0.01	<0.01	<0.01	\
Head	N30	462000	2310	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	24.96	25.00	<0.01	<0.01	<0.01	<0.01	\
Head	N30	461500	2307.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	24.88	25.00	<0.01	<0.01	<0.01	<0.01	\
Head	N30	462000	2310	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	24.96	25.00	<0.01	<0.01	<0.01	<0.01	\
Head	N30	462500	2312.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	24.94	25.00	<0.01	<0.01	<0.01	<0.01	\
Head	N30	462000	2310	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA	24.96	25.00	<0.01	<0.01	<0.01	<0.01	\
Body	N30	462000	2310	DFT-s-OFDM QPSK	Front	10mm	\	SA	20.30	21.00	0.413	0.49	0.192	0.23	-0.17
Body	N30	462000	2310	DFT-s-OFDM QPSK	Rear	10mm	\	SA	20.30	21.00	0.659	0.77	0.298	0.35	0.11
Body	N30	462500	2312.5	DFT-s-OFDM QPSK	Bottom	10mm	FIG A.52	SA	20.29	21.00	0.724	0.85	0.330	0.39	0.08
Body	N30	462000	2310	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	20.30	21.00	0.691	0.81	0.316	0.37	-0.06
Body	N30	461500	2307.5	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	20.27	21.00	0.711	0.84	0.320	0.38	-0.02
Body	N30	462000	2310	DFT-s-OFDM QPSK	Front	16mm	\	SA	24.96	25.00	0.503	0.51	0.265	0.27	0.03
Body	N30	462000	2310	DFT-s-OFDM QPSK	Rear	20mm	\	SA	24.96	25.00	0.522	0.53	0.280	0.28	0.14
Body	N30	462000	2310	DFT-s-OFDM QPSK	Left	10mm	\	SA	24.96	25.00	0.050	0.05	0.028	0.03	-0.09
Body	N30	462000	2310	DFT-s-OFDM QPSK	Right	10mm	\	SA	24.96	25.00	0.368	0.37	0.203	0.20	0.06
Body	N30	462000	2310	DFT-s-OFDM QPSK	Bottom	19mm	\	SA	24.96	25.00	0.592	0.60	0.314	0.32	0.13
Body	N30	462000	2310	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	20.28	21.00	0.658	0.78	0.284	0.34	0.14
Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA	15.63	16.50	0.149	0.18	0.076	0.09	0.19
Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.63	16.50	0.208	0.25	0.103	0.13	0.04
Head	N41	535998	2679.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	15.59	16.50	0.401	0.49	0.209	0.26	-0.19
Head	N41	527298	2636.49	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	15.57	16.50	0.442	0.55	0.225	0.28	0.17
Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	15.63	16.50	0.548	0.67	0.280	0.34	0.05
Head	N41	509901	2549.505	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	15.60	16.50	0.622	0.77	0.286	0.35	-0.06
Head	N41	501204	2506.02	DFT-s-OFDM QPSK	Cheek Right	0mm	FIG A.53	SA	15.57	16.50	0.664	0.82	0.301	0.37	-0.09
Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA	15.63	16.50	0.557	0.68	0.269	0.33	0.02
Head	N41	535998	2679.99	DFT-s-OFDM QPSK	Cheek Left	0mm	\	ENDC	12.66	13.50	0.074	0.09	0.037	0.04	0.07
Head	N41	535998	2679.99	DFT-s-OFDM QPSK	Tilt Left	0mm	\	ENDC	12.66	13.50	0.103	0.12	0.050	0.06	0.12
Head	N41	535998	2679.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	12.66	13.50	0.199	0.24	0.102	0.12	0.05
Head	N41	527298	2636.49	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	12.58	13.50	0.219	0.27	0.110	0.14	0.06
Head	N41	518598	2592.99	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	12.38	13.50	0.271	0.35	0.137	0.18	0.1
Head	N41	509901	2549.505	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	12.42	13.50	0.308	0.39	0.140	0.18	0.04
Head	N41	501204	2506.02	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	12.55	13.50	0.329	0.41	0.147	0.18	0.15
Head	N41	535998	2679.99	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	12.66	13.50	0.276	0.33	0.131	0.16	0.12
Head	N41	518598	2592.99	CP-OFDM QPSK	Cheek Right	0mm	\	SA	15.60	16.50	0.528	0.65	0.261	0.32	-0.06
Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	10mm	\	SA	17.20	18.00	0.403	0.48	0.206	0.25	-0.08
Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Rear	10mm	\	SA	17.20	18.00	0.614	0.74	0.254	0.31	-0.14
Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Left	10mm	\	SA	17.20	18.00	0.358	0.43	0.182	0.22	0.06
Body	N41	535998	2679.99	DFT-s-OFDM QPSK	Top	10mm	\	SA	17.18	18.00	0.329	0.40	0.140	0.17	-0.11
Body	N41	527298	2636.49	DFT-s-OFDM QPSK	Top	10mm	\	SA	17.16	18.00	0.468	0.57	0.198	0.24	-0.08
Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Top	10mm	\	SA	17.20	18.00	0.622	0.75	0.268	0.32	-0.16
Body	N41	509901	2549.505	DFT-s-OFDM QPSK	Top	10mm	\	SA	17.19	18.00	0.676	0.81	0.284	0.34	0.09
Body	N41	501204	2506.02	DFT-s-OFDM QPSK	Top	10mm	FIG A.54	SA	17.16	18.00	0.756	0.92	0.323	0.39	-0.13
Body	N41	518598	2592.99	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	15.63	16.50	0.195	0.24	0.		

ANT	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Figure No.	Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
1	Head	N66	355500	1777.5	DFT-s-OFDM QPSK	Cheek Left	0mm	FIG A.57	SA/ENDC	23.88	25.00	0.201	0.26	0.128	0.17	0.08
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.96	25.00	0.170	0.22	0.111	0.14	0.16
1	Head	N66	342500	1712.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.94	25.00	0.159	0.20	0.102	0.13	0.17
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA/ENDC	23.96	25.00	0.084	0.11	0.055	0.07	-0.03
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA/ENDC	23.96	25.00	0.089	0.11	0.058	0.07	0.08
1	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA/ENDC	23.96	25.00	0.074	0.09	0.046	0.06	-0.17
1	Head	N66	349000	1745	CP-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	22.41	23.50	0.161	0.21	0.107	0.14	0.02
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	10mm	\	SA	23.13	24.00	0.391	0.48	0.241	0.29	-0.04
1	Body	N66	355500	1777.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.58	SA	23.05	24.00	0.694	0.86	0.415	0.52	-0.06
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	10mm	\	SA	23.13	24.00	0.604	0.74	0.365	0.45	-0.19
1	Body	N66	342500	1712.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	23.11	24.00	0.538	0.66	0.349	0.43	0.19
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	23.13	24.00	0.373	0.46	0.227	0.28	-0.17
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	22.32	23.00	0.341	0.40	0.211	0.25	0.13
1	Body	N66	355500	1777.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	22.31	23.00	0.605	0.71	0.362	0.42	0.06
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	22.32	23.00	0.527	0.62	0.318	0.37	0.05
1	Body	N66	342500	1712.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	22.21	23.00	0.469	0.56	0.305	0.37	-0.18
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Bottom	10mm	\	ENDC	22.32	23.00	0.325	0.38	0.198	0.23	0.12
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	16mm	\	SA/ENDC	23.96	25.00	0.259	0.33	0.186	0.24	0.19
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	22mm	\	SA/ENDC	23.96	25.00	0.205	0.26	0.148	0.19	0.00
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Bottom	19mm	\	SA/ENDC	23.96	25.00	0.204	0.26	0.139	0.18	-0.18
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Left	10mm	\	SA/ENDC	23.96	25.00	0.400	0.51	0.244	0.31	-0.01
1	Body	N66	349000	1745	DFT-s-OFDM QPSK	Right	10mm	\	SA/ENDC	23.96	25.00	0.054	0.07	0.036	0.05	0.05
1	Body	N66	349000	1745	CP-OFDM QPSK	Rear	10mm	\	SA	22.64	23.50	0.573	0.70	0.353	0.43	0.15
3	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Left	0mm	\	ENDC	17.18	18.00	0.315	0.38	0.174	0.21	0.07
3	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Left	0mm	\	ENDC	17.18	18.00	0.402	0.49	0.205	0.25	0.15
3	Head	N66	349000	1745	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	17.18	18.00	0.532	0.64	0.252	0.30	0.19
3	Head	N66	355500	1777.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	17.12	18.00	0.600	0.73	0.272	0.33	0.12
3	Head	N66	349000	1745	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	17.18	18.00	0.636	0.77	0.288	0.35	-0.03
3	Head	N66	342500	1712.5	DFT-s-OFDM QPSK	Tilt Right	0mm	FIG A.59	ENDC	17.16	18.00	0.654	0.79	0.295	0.36	-0.12
3	Head	N66	349000	1745	CP-OFDM QPSK	Tilt Right	0mm	\	ENDC	17.11	18.00	0.614	0.75	0.283	0.35	0.16
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	22.54	23.50	0.481	0.60	0.275	0.34	0.06
3	Body	N66	355500	1777.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	22.46	23.50	0.587	0.75	0.332	0.42	-0.17
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	22.56	23.50	0.597	0.74	0.345	0.43	0.18
3	Body	N66	342500	1712.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	22.55	23.50	0.616	0.77	0.353	0.44	0.12
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Left	10mm	\	ENDC	22.54	23.50	0.134	0.17	0.076	0.09	0.19
3	Body	N66	355500	1777.5	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	22.46	23.50	0.572	0.73	0.298	0.38	-0.11
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	22.56	23.50	0.593	0.74	0.309	0.38	-0.04
3	Body	N66	342500	1712.5	DFT-s-OFDM QPSK	Top	10mm	FIG A.60	ENDC	22.55	23.50	0.636	0.79	0.333	0.41	0.13
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Front	21mm	\	ENDC	24.49	25.00	0.195	0.22	0.120	0.13	0.18
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Rear	23mm	\	ENDC	24.49	25.00	0.198	0.22	0.122	0.14	-0.09
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Top	24mm	\	ENDC	24.49	25.00	0.284	0.32	0.170	0.19	0.04
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Left	19mm	\	ENDC	24.49	25.00	0.236	0.27	0.132	0.15	-0.13
3	Body	N66	349000	1745	DFT-s-OFDM QPSK	Right	10mm	\	ENDC	24.49	25.00	0.108	0.12	0.064	0.07	-0.08
3	Body	N66	349000	1745	CP-OFDM QPSK	Top	10mm	\	ENDC	22.48	23.50	0.572	0.72	0.289	0.37	0.11
1	Head	N70	341500	1707.5	DFT-s-OFDM QPSK	Cheek Left	0mm	FIG A.61	SA	23.94	25.00	0.173	0.22	0.117	0.15	-0.02
1	Head	N70	340500	1702.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA	23.92	25.00	0.136	0.17	0.094	0.12	0.15
1	Head	N70	339500	1697.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA	23.89	25.00	0.124	0.16	0.090	0.12	-0.13
1	Head	N70	341500	1707.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	23.94	25.00	0.067	0.09	0.046	0.06	-0.07
1	Head	N70	341500	1707.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	23.94	25.00	0.075	0.10	0.054	0.07	0.02
1	Head	N70	341500	1707.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA	23.94	25.00	0.069	0.09	0.046	0.06	0.14
1	Head	N70	341500	1707.5	CP-OFDM QPSK	Cheek Left	0mm	\	SA	22.30	23.50	0.131	0.17	0.091	0.12	0.11
1	Body	N70	341500	1707.5	DFT-s-OFDM QPSK	Front	10mm	\	SA	23.94	25.00	0.379	0.48	0.237	0.30	-0.12
1	Body	N70	341500	1707.5	DFT-s-OFDM QPSK	Rear	10mm	FIG A.62	SA	23.94	25.00	0.655	0.84	0.398	0.51	0.04
1	Body	N70	340500	1702.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	23.92	25.00	0.618	0.79	0.386	0.49	-0.03
1	Body	N70	339500	1697.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	23.89	25.00	0.624	0.81	0.392	0.51	0.08
1	Body	N70	341500	1707.5	DFT-s-OFDM QPSK	Left	10mm	\	SA	23.94	25.00	0.157	0.20	0.093	0.12	0.04
1	Body	N70	341500	1707.5	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	23.94	25.00	0.408	0.52	0.264	0.34	0.16
1	Body	N70	341500	1707.5	CP-OFDM QPSK	Rear	10mm	\	SA	22.30	23.50	0.593	0.78	0.371	0.49	0.08

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode	Test setup	Distance	Figure No.	Note	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	N71	139100	695.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.91	25.00	0.142	0.18	0.119	0.15	0.19
Head	N71	136100	680.5	DFT-s-OFDM QPSK	Cheek Left	0mm	FIG A.63	SA/ENDC	23.95	25.00	0.151	0.19	0.123	0.16	0.03
Head	N71	133100	665.5	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	23.90	25.00	0.128	0.16	0.103	0.13	0.08
Head	N71	136100	680.5	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA/ENDC	23.95	25.00	<0.01	<0.01	<0.01	<0.01	/
Head	N71	136100	680.5	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA/ENDC	23.95	25.00	<0.01	<0.01	<0.01	<0.01	/
Head	N71	136100	680.5	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA/ENDC	23.95	25.00	<0.01	<0.01	<0.01	<0.01	/
Head	N71	136100	680.5	CP-OFDM QPSK	Cheek Left	0mm	\	SA/ENDC	22.35	23.50	0.131	0.17	0.114	0.15	0.02
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Front	10mm	\	SA	21.45	22.50	0.074	0.09	0.043	0.05	-0.11
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Rear	10mm	\	SA	21.45	22.50	0.113	0.14	0.078	0.10	-0.16
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Bottom	10mm	\	SA	21.45	22.50	0.087	0.11	0.051	0.06	-0.06
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	18.50	19.50	0.037	0.05	0.020	0.03	-0.02
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	18.50	19.50	0.057	0.07	0.040	0.05	0.05
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Bottom	10mm	\	ENDC	18.50	19.50	0.044	0.06	0.026	0.03	-0.08
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Front	16mm	\	SA/ENDC	23.95	25.00	0.197	0.25	0.149	0.19	0.19
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Rear	20mm	\	SA/ENDC	23.95	25.00	0.258	0.33	0.196	0.25	-0.09
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Bottom	19mm	\	SA/ENDC	23.95	25.00	0.096	0.12	0.060	0.08	0.16
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Left	10mm	\	SA/ENDC	23.95	25.00	0.129	0.16	0.093	0.12	0.10
Body	N71	139100	695.5	DFT-s-OFDM QPSK	Right	10mm	\	SA/ENDC	23.95	25.00	0.252	0.32	0.177	0.23	0.02
Body	N71	136100	680.5	DFT-s-OFDM QPSK	Right	10mm	FIG A.64	SA/ENDC	23.91	25.00	0.299	0.38	0.211	0.27	0.09
Body	N71	133100	665.5	DFT-s-OFDM QPSK	Right	10mm	\	SA/ENDC	23.90	25.00	0.248	0.32	0.168	0.22	0.03
Body	N71	136100	680.5	CP-OFDM QPSK	Right	10mm	\	SA/ENDC	22.35	23.50	0.234	0.30	0.184	0.24	0.06
Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA	15.53	16.50	0.429	0.54	0.174	0.22	-0.19
Head	N77-L	636000	3540	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.49	16.50	0.496	0.63	0.194	0.24	-0.11
Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Tilt Left	0mm	FIG A.65	SA	15.53	16.50	0.502	0.63	0.198	0.25	0.14
Head	N77-L	630668	3460.02	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.48	16.50	0.467	0.59	0.181	0.23	-0.18
Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	15.53	16.50	0.271	0.34	0.110	0.14	-0.14
Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	SA	15.53	16.50	0.334	0.42	0.127	0.16	0.17
Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Left	0mm	\	ENDC	13.56	14.50	0.280	0.35	0.109	0.14	0.1
Head	N77-L	636000	3540	DFT-s-OFDM QPSK	Tilt Left	0mm	\	ENDC	13.53	14.50	0.392	0.49	0.143	0.18	0.08
Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Tilt Left	0mm	\	ENDC	13.56	14.50	0.365	0.45	0.133	0.17	0.17
Head	N77-L	630668	3460.02	DFT-s-OFDM QPSK	Tilt Left	0mm	\	ENDC	13.52	14.50	0.367	0.46	0.133	0.17	-0.03
Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Cheek Right	0mm	\	ENDC	13.56	14.50	0.205	0.25	0.079	0.10	0
Head	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	13.56	14.50	0.257	0.32	0.092	0.11	-0.06
Head	N77-L	633334	3500.01	CP-OFDM 256QAM	Tilt Left	0mm	\	SA	15.50	16.50	0.483	0.61	0.186	0.23	0.15
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Front	10mm	\	SA	22.08	22.50	0.420	0.46	0.206	0.23	-0.10
Body	N77-L	636000	3540	DFT-s-OFDM QPSK	Rear	10mm	\	SA	22.02	22.50	0.531	0.59	0.244	0.27	0.05
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Rear	10mm	\	SA	22.08	22.50	0.586	0.65	0.273	0.30	0.16
Body	N77-L	630668	3460.02	DFT-s-OFDM QPSK	Rear	10mm	\	SA	21.95	22.50	0.641	0.73	0.290	0.33	-0.15
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Right	10mm	\	SA	22.08	22.50	0.505	0.56	0.231	0.25	-0.10
Body	N77-L	636000	3540	DFT-s-OFDM QPSK	Top	10mm	\	SA	22.02	22.50	0.688	0.77	0.297	0.33	-0.12
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Top	10mm	\	SA	22.08	22.50	0.759	0.84	0.332	0.37	-0.12
Body	N77-L	630668	3460.02	DFT-s-OFDM QPSK	Top	10mm	FIG A.66	SA	21.95	22.50	0.830	0.94	0.353	0.40	0.18
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	20.14	21.50	0.256	0.35	0.119	0.16	-0.15
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	20.14	21.50	0.381	0.52	0.164	0.22	0.13
Body	N77-L	636000	3540	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	20.08	21.50	0.387	0.54	0.166	0.23	-0.10
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	20.14	21.50	0.397	0.54	0.168	0.23	0.03
Body	N77-L	630668	3460.02	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	20.02	21.50	0.403	0.57	0.171	0.24	-0.11
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Front	19mm	\	SA/ENDC	25.28	26.00	0.324	0.38	0.164	0.19	-0.04
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Rear	23mm	\	SA/ENDC	25.28	26.00	0.381	0.45	0.189	0.22	-0.06
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Top	21mm	\	SA/ENDC	25.28	26.00	0.507	0.60	0.255	0.30	0.10
Body	N77-L	633334	3500.01	DFT-s-OFDM QPSK	Right	10mm	\	SA/ENDC	25.28	26.00	0.522	0.62	0.248	0.29	-0.09
Head	N77-H	633334	3500.01	CP-OFDM QPSK	Top	10mm	\	SA	21.96	22.50	0.731	0.83	0.316	0.36	0.08
Head	N77-H	650800	3762	DFT-s-OFDM QPSK	Cheek Left	0mm	\	SA	15.50	16.50	0.527	0.66	0.184	0.23	0.17
Head	N77-H	664666	3969.99	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.47	16.50	0.442	0.56	0.159	0.20	0.15
Head	N77-H	661200	3918	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.48	16.50	0.466	0.59	0.166	0.21	-0.01
Head	N77-H	657733	3866	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.44	16.50	0.491	0.63	0.172	0.22	0.15
Head	N77-H	654267	3814	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.49	16.50	0.502	0.63	0.175	0.22	0.1
Head	N77-H	650800	3762	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.50	16.50	0.562	0.62	0.248	0.29	-0.09
Head	N77-H	647334	3710.01	DFT-s-OFDM QPSK	Tilt Left	0mm	\	SA	15.46	16.50	0.614	0.78	0.219	0.28	0.16
Head	N77-H	650800	3762	DFT-s-OFDM QPSK	Cheek Right	0mm	\	SA	15.50	16.50	0.614	0.78	0.219	0.28	0.16
Head	N77-H	647334	3710.01	DFT-s-OFDM QPSK	Tilt Right	0mm	\	ENDC	13.54	14.50	0.342	0.43	0.191	0.24	-0.15
Head	N77-H	650800	3762	CP-OFDM QPSK	Tilt Left	0mm	\	SA	15.48	16.50	0.543	0.69	0.182	0.23	0.16
Body	N77-H	654267	3814	DFT-s-OFDM QPSK	Front	10mm	\	SA	22.07	22.50	0.484	0.53	0.217	0.24	0.00
Body	N77-H	654267	3814	DFT-s-OFDM QPSK	Rear	10mm	\	SA	22.07	22.50	0.393	0.43	0.173	0.19	-0.07
Body	N77-H	654267	3814	DFT-s-OFDM QPSK	Right	10mm	\	SA	22.07	22.50	0.305	0.34	0.134	0.15	0.13
Body	N77-H	650800	3762	DFT-s-OFDM QPSK	Top	10mm	\	SA	21.94	22.50	0.585	0.67	0.248	0.28	0.03
Body	N77-H	647334	3710.01	DFT-s-OFDM QPSK	Top	10mm	FIG A.68	SA	21.67	22.50	0.735	0.89	0.311	0.38	-0.03
Body	N77-H	654267	3814	DFT-s-OFDM QPSK	Front	10mm	\	ENDC	20.11	21.50	0.276	0.38	0.113	0.16	-0.01
Body	N77-H	654267	3814	DFT-s-OFDM QPSK	Rear	10mm	\	ENDC	20.11	21.50	0.227	0.31	0.093	0.13	0.03
Body	N77-H	664666	3969.99	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	19.91	21.50	0.141	0.20	0.061	0.09	-0.02
Body	N77-H	661200	3918	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	19.90	21.50	0.173	0.25	0.073	0.11	-0.15
Body	N77-H	657733	3866	DFT-s-OFDM QPSK	Top	10mm	\	ENDC	20.09	21.50	0.181	0.25	0.078	0.11	-0.06
Body	N77-H	654267	3814	DFT-s-OFDM											

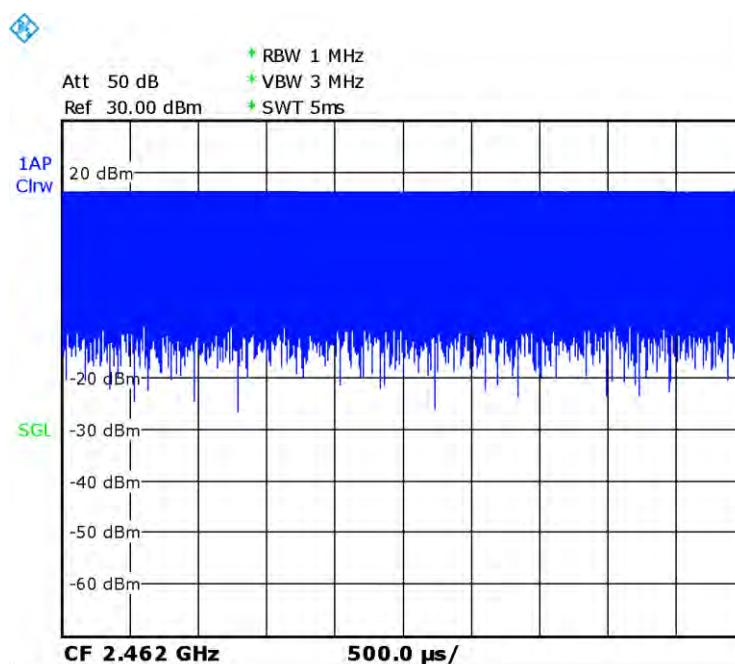
14.3 SAR Evaluation for WIFI 2.4G

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

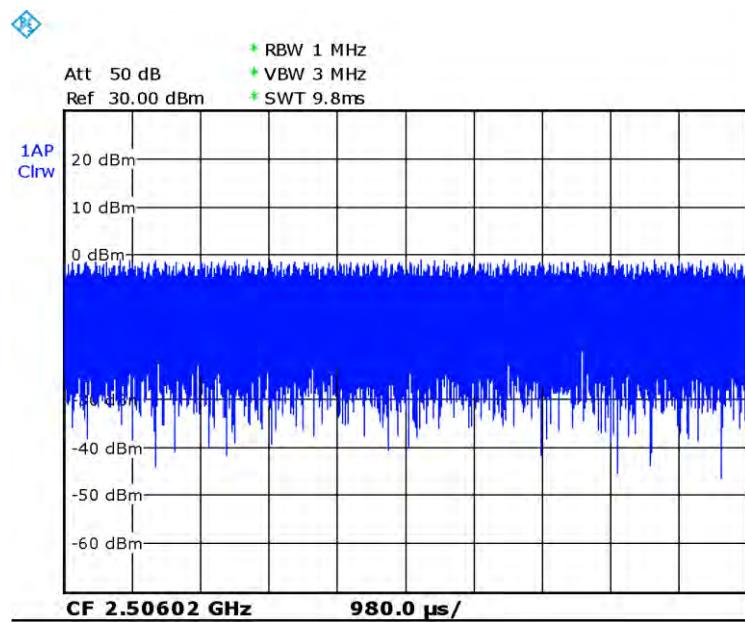
When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Duty Cycle	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	WLAN2.4G	11	2462	11b	Cheek Left	0mm	FIG A.68	100.00%	10.46	11.5	0.100	0.13	0.048	0.06	-0.17
Head	WLAN2.4G	11	2462	11b	Tilt Left	0mm	\	100.00%	10.46	11.5	0.080	0.10	0.036	0.05	0.18
Head	WLAN2.4G	11	2462	11b	Cheek Right	0mm	\	100.00%	10.46	11.5	0.025	0.03	0.013	0.02	-0.13
Head	WLAN2.4G	11	2462	11b	Tilt Right	0mm	\	100.00%	10.46	11.5	0.026	0.03	0.013	0.02	-0.02
Body	WLAN2.4G	11	2462	11b	Front	10mm	\	100.00%	17.46	18	0.117	0.13	0.065	0.07	-0.19
Body	WLAN2.4G	11	2462	11b	Rear	10mm	\	100.00%	17.46	18	0.228	0.26	0.121	0.14	-0.13
Body	WLAN2.4G	11	2462	11b	Top	10mm	\	100.00%	17.46	18	0.089	0.10	0.047	0.05	0.10
Body	WLAN2.4G	11	2462	11b	Front	19mm	\	100.00%	20.85	21.5	0.242	0.28	0.138	0.16	0.08
Body	WLAN2.4G	11	2462	11b	Rear	23mm	\	100.00%	20.85	21.5	0.252	0.29	0.144	0.17	-0.06
Body	WLAN2.4G	11	2462	11b	Right	10mm	FIG A.69	100.00%	20.85	21.5	0.655	0.76	0.347	0.40	-0.14
Body	WLAN2.4G	11	2462	11b	Top	21mm	\	100.00%	20.85	21.5	0.126	0.15	0.071	0.08	0.03



Picture 14.3-1 Duty factor plot



Picture 14.3-2 Duty factor plot

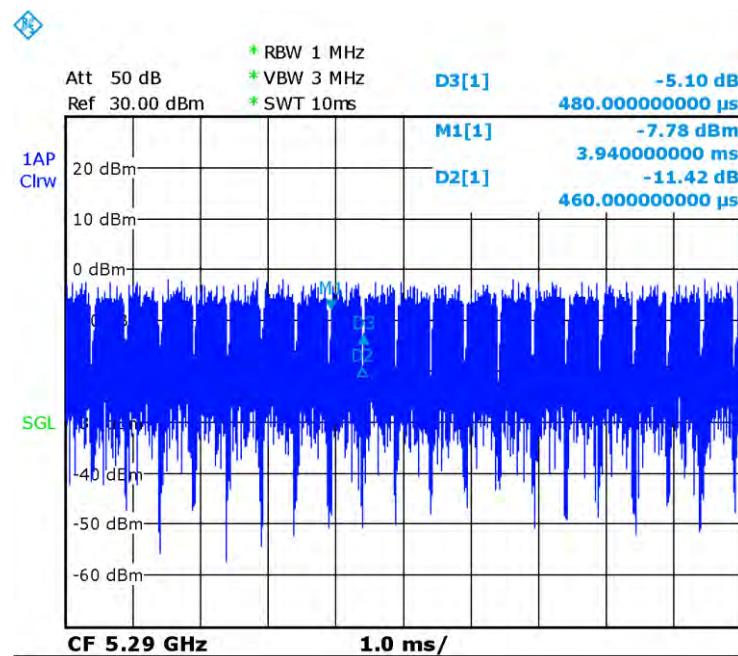
14.4 SAR Evaluation For WIFI 5G

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

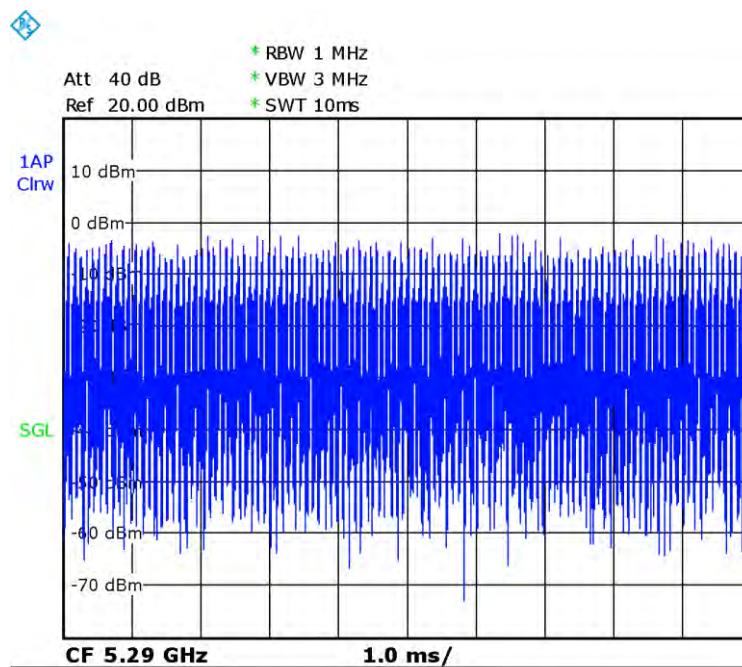
When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Duty Cycle	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	WLAN5G	58	5290	11ac-80M	Cheek Left	0mm	\	95.83%	10.92	12.5	0.090	0.14	0.039	0.06	0.17
Head	WLAN5G	58	5290	11ac-80M	Tilt Left	0mm	FIG A.70	95.83%	10.92	12.5	0.134	0.20	0.050	0.07	-0.02
Head	WLAN5G	58	5290	11ac-80M	Cheek Right	0mm	\	95.83%	10.92	12.5	0.090	0.14	0.025	0.04	0.01
Head	WLAN5G	58	5290	11ac-80M	Tilt Right	0mm	\	95.83%	10.92	12.5	<0.01	<0.01	<0.01	<0.01	/
Head	WLAN5G	122	5610	11ac-80M	Cheek Left	0mm	\	95.83%	11.44	12.5	0.088	0.12	0.036	0.05	-0.12
Head	WLAN5G	122	5610	11ac-80M	Tilt Left	0mm	\	95.83%	11.44	12.5	0.131	0.17	0.043	0.05	0.17
Head	WLAN5G	122	5610	11ac-80M	Cheek Right	0mm	\	95.83%	11.44	12.5	0.077	0.10	0.029	0.04	-0.06
Head	WLAN5G	122	5610	11ac-80M	Tilt Right	0mm	\	95.83%	11.44	12.5	<0.01	<0.01	<0.01	<0.01	/
Head	WLAN5G	155	5775	11ac-80M	Cheek Left	0mm	\	95.83%	12.29	12.5	0.095	0.10	0.043	0.05	-0.02
Head	WLAN5G	155	5775	11ac-80M	Tilt Left	0mm	\	95.83%	12.29	12.5	0.129	0.14	0.039	0.04	0.04
Head	WLAN5G	155	5775	11ac-80M	Cheek Right	0mm	\	95.83%	12.29	12.5	0.077	0.08	0.032	0.03	0.12
Head	WLAN5G	155	5775	11ac-80M	Tilt Right	0mm	\	95.83%	12.29	12.5	<0.01	<0.01	<0.01	<0.01	/
Body	WLAN5G	58	5290	11ac-80M	Front	10mm	\	95.83%	9.19	11	0.036	0.06	0.008	0.01	-0.09
Body	WLAN5G	58	5290	11ac-80M	Rear	10mm	\	95.83%	9.19	11	0.251	0.40	0.094	0.14	-0.01
Body	WLAN5G	58	5290	11ac-80M	Top	10mm	\	95.83%	9.19	11	0.050	0.08	0.010	0.02	0.15
Body	WLAN5G	122	5610	11ac-80M	Front	10mm	\	95.83%	9.71	11	0.035	0.05	0.009	0.01	-0.02
Body	WLAN5G	122	5610	11ac-80M	Rear	10mm	\	95.83%	9.71	11	0.248	0.35	0.091	0.12	0.00
Body	WLAN5G	122	5610	11ac-80M	Top	10mm	\	95.83%	9.71	11	0.043	0.06	0.011	0.01	0.17
Body	WLAN5G	155	5775	11ac-80M	Front	10mm	\	95.83%	10.81	11	0.036	0.04	0.009	0.01	-0.08
Body	WLAN5G	155	5775	11ac-80M	Rear	10mm	\	95.83%	10.81	11	0.250	0.27	0.092	0.10	0.19
Body	WLAN5G	155	5775	11ac-80M	Top	10mm	\	95.83%	10.81	11	0.048	0.05	0.009	0.01	-0.07
Body	WLAN5G	64	5320	11a	Front	19mm	\	99.00%	19.05	20	0.048	0.06	0.011	0.01	0.16
Body	WLAN5G	64	5320	11a	Rear	23mm	FIG A.71	99.00%	19.05	20	0.675	0.85	0.279	0.35	-0.14
Body	WLAN5G	60	5300	11a	Rear	23mm	\	99.00%	18.85	20	0.329	0.43	0.145	0.19	0.04
Body	WLAN5G	64	5320	11a	Right	10mm	\	99.00%	19.05	20	0.078	0.10	0.034	0.04	-0.08
Body	WLAN5G	64	5320	11a	Top	21mm	\	99.00%	19.05	20	0.113	0.14	0.046	0.06	-0.11
Body	WLAN5G	124	5620	11a	Front	19mm	\	99.00%	19.12	20	0.049	0.06	0.013	0.02	-0.01
Body	WLAN5G	124	5620	11a	Rear	23mm	\	99.00%	19.12	20	0.672	0.83	0.282	0.35	0.09
Body	WLAN5G	128	5640	11a	Rear	23mm	\	99.00%	19.01	20	0.642	0.81	0.270	0.34	-0.06
Body	WLAN5G	124	5620	11a	Right	10mm	\	99.00%	19.12	20	0.077	0.10	0.038	0.05	0.16
Body	WLAN5G	124	5620	11a	Top	21mm	\	99.00%	19.12	20	0.112	0.14	0.042	0.05	0.18
Body	WLAN5G	157	5785	11a	Front	19mm	\	99.00%	20.05	20.5	0.047	0.05	0.009	0.01	0.01
Body	WLAN5G	157	5785	11a	Rear	23mm	\	99.00%	20.05	20.5	0.673	0.75	0.277	0.31	-0.04
Body	WLAN5G	157	5785	11a	Right	10mm	\	99.00%	20.05	20.5	0.077	0.09	0.034	0.04	0.19
Body	WLAN5G	157	5785	11a	Top	21mm	\	99.00%	20.05	20.5	0.115	0.13	0.049	0.05	0.07



Picture 14.4-1 The plot of duty factor for CH.64



Picture 14.4-2 The plot of duty factor for CH.58

14.5 SAR Evaluation For BT

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	Duty Cycle	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Head	BT	39	2441	GFSK	Cheek Left	0mm	FIG A.72	\	9.66	10	0.042	0.05	0.020	0.02	0.02
Head	BT	39	2441	GFSK	Tilt Left	0mm	\	\	9.66	10	0.038	0.04	0.017	0.02	0.12
Head	BT	39	2441	GFSK	Cheek Right	0mm	\	\	9.66	10	0.017	0.02	0.008	0.01	-0.16
Head	BT	39	2441	GFSK	Tilt Right	0mm	\	\	9.66	10	0.017	0.02	0.008	0.01	0.10
Body	BT	39	2441	GFSK	Front	10mm	\	\	9.66	10	0.006	0.01	0.002	0.00	-0.10
Body	BT	39	2441	GFSK	Rear	10mm	FIG A.73	\	9.66	10	0.017	0.02	0.009	0.01	0.19
Body	BT	39	2441	GFSK	Right	10mm	\	\	9.66	10	0.015	0.02	0.008	0.01	0.15
Body	BT	39	2441	GFSK	Top	10mm	\	\	9.66	10	0.005	0.01	0.002	0.00	0.12

16 Measurement Uncertainty

16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	N	1	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521

Combined standard uncertainty	$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					9.55	9.43	257
Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$					19.1	18.9	

16.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞

21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
	Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$					10.7	10.6	257
	Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$					21.4	21.1	

16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z- Approximation	B	7.0	R	$\sqrt{3}$	1	1	4.0	4.0	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞

20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
	Combined standard uncertainty	$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						10.4	10.3	257
	Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$						20.8	20.6	

16.4 Measurement Uncertainty for Fast SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z- Approximation	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5

17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						13.5	13.4	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						27.0	26.8	

17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	January 14, 2022	One year
02	Power sensor	NRP110T	101139	January 13, 2022	One year
03	Power sensor	NRP110T	101159	January 13, 2022	One year
04	Signal Generator	E4438C	MY49071430	January 13, 2022	One year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	159850	January 24, 2022	One year
07	E-field Probe	SPEAG EX3DV4	7464	January 26,2022	One year
08	DAE	SPEAG DAE4	549	January 07, 2022	One year
09	E-field Probe	SPEAG EX3DV4	7600	December 29, 2021	One year
10	DAE	SPEAG DAE4	777	January 07, 2022	One year
11	Dipole Validation Kit	SPEAG D750V3	1017	July 20,2022	One year
12	Dipole Validation Kit	SPEAG D900V2	1d051	July 26,2022	One year
13	Dipole Validation Kit	SPEAG D1750V2	1003	July 18,2022	One year
14	Dipole Validation Kit	SPEAG D1900V2	5d101	July 26,2022	One year
15	Dipole Validation Kit	SPEAG D2300V2	1018	July 20,2022	One year
16	Dipole Validation Kit	SPEAG D2450V2	853	July 20,2022	One year
17	Dipole Validation Kit	SPEAG D2600V2	1012	July 26,2022	One year
18	Dipole Validation Kit	SPEAG D3300V2	1011	July 01,2022	One year
19	Dipole Validation Kit	SPEAG D3500V2	1016	July 01,2022	One year
20	Dipole Validation Kit	SPEAG D3700V2	1004	July 01,2022	One year
21	Dipole Validation Kit	SPEAG D3900V2	1024	July 01,2022	One year
22	Dipole Validation Kit	SPEAG D5GHzV2	1262	January 22,2022	One year

END OF REPORT BODY

ANNEX A Graph Results

GSM850_CH251 Right Cheek

Date: 10/6/2022

Electronics: DAE4 Sn549

Medium: head 835 MHz

Medium parameters used: $f = 848.8$; $\sigma = 0.921 \text{ mho/m}$; $\epsilon_r = 41.24$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: GSM850 848.8 Duty Cycle: 1:8.3

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.419 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.162 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.21 W/kg

Maximum value of SAR (measured) = 0.349 W/kg

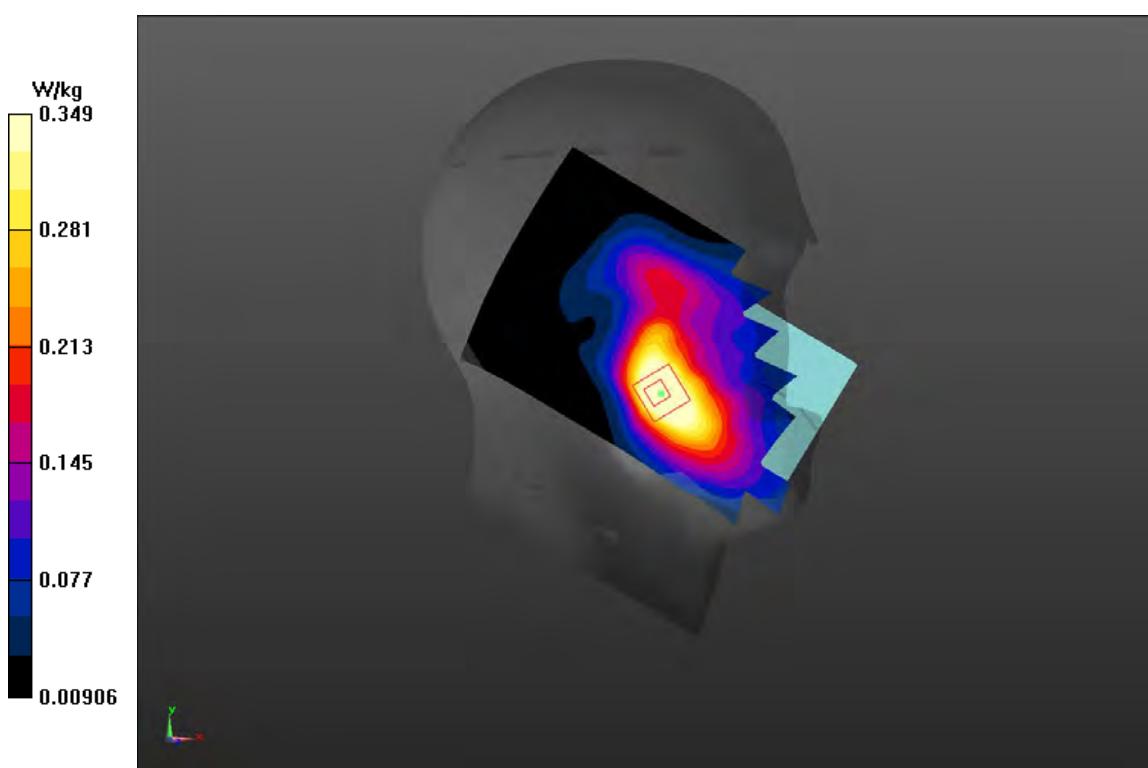


Fig A.1

GSM850_CH251 GPRS(2TX) Rear 10mm

Date: 10/6/2022

Electronics: DAE4 Sn549

Medium: head 835 MHz

 Medium parameters used: $f = 848.8$; $\sigma = 0.905 \text{ mho/m}$; $\epsilon_r = 41.37$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: GSM850 848.8 Duty Cycle: 1:4

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.578 W/kg

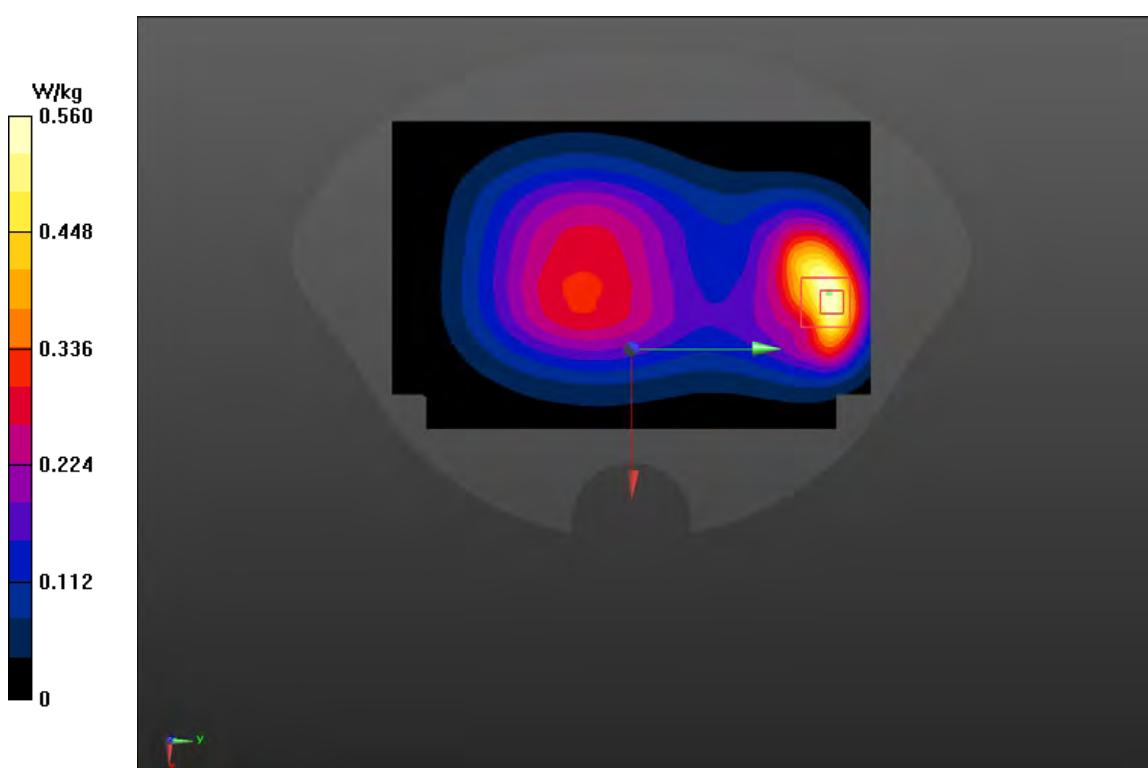
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.08 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.51 W/kg; SAR(10 g) = 0.212 W/kg

Maximum value of SAR (measured) = 0.560 W/kg


Fig A.2

PCS1900_CH661 Righ Cheek

Date: 10/9/2022

Electronics: DAE4 Sn549

Medium: head 1900 MHz

 Medium parameters used: $f = 1880$; $\sigma = 1.371$ mho/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: PCS1900 1880 Duty Cycle: 1:8.3

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.34 W/kg

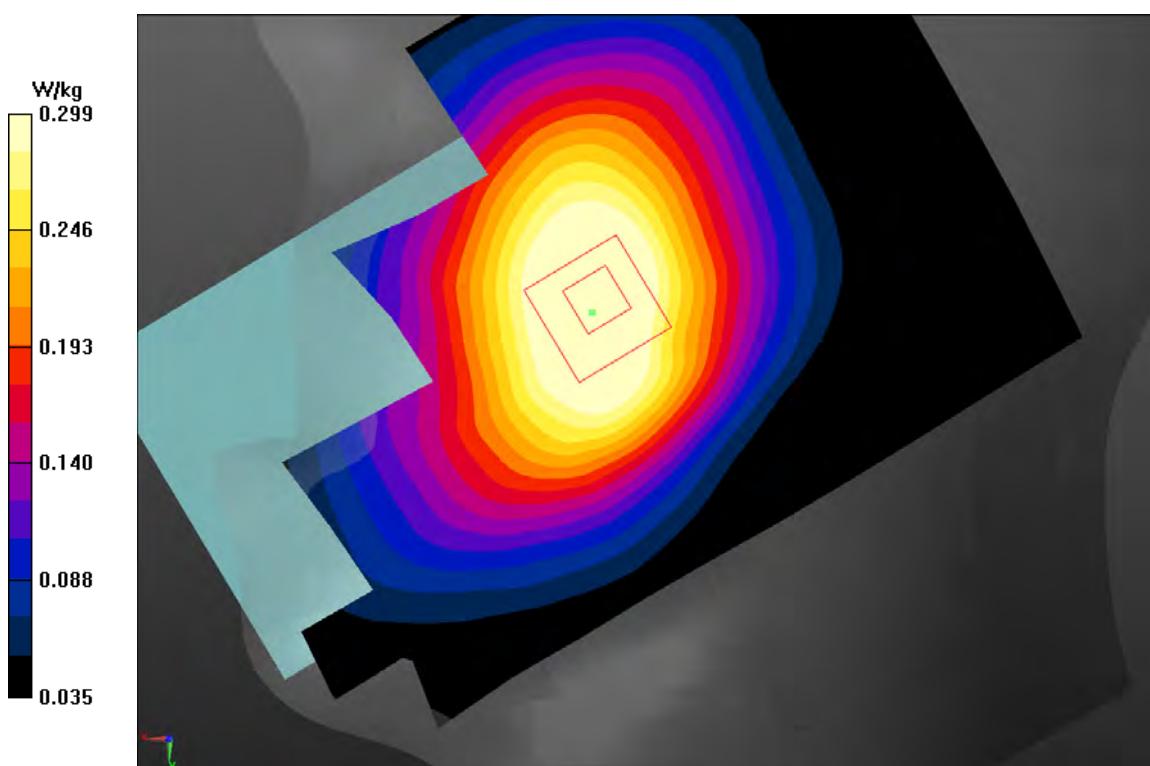
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.232 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.356 W/kg

SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.218 W/kg

Maximum value of SAR (measured) = 0.299 W/kg


Fig A.3

PCS1900_CH661 GPRS(1TX) Rear 10mm

Date: 10/9/2022

Electronics: DAE4 Sn549

Medium: head 1900 MHz

Medium parameters used: $f = 1880$; $\sigma = 1.396 \text{ mho/m}$; $\epsilon_r = 39.94$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: PCS1900 1880 Duty Cycle: 1:4

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.962 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.63 V/m; Power Drift = 0.25 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 0.811 W/kg

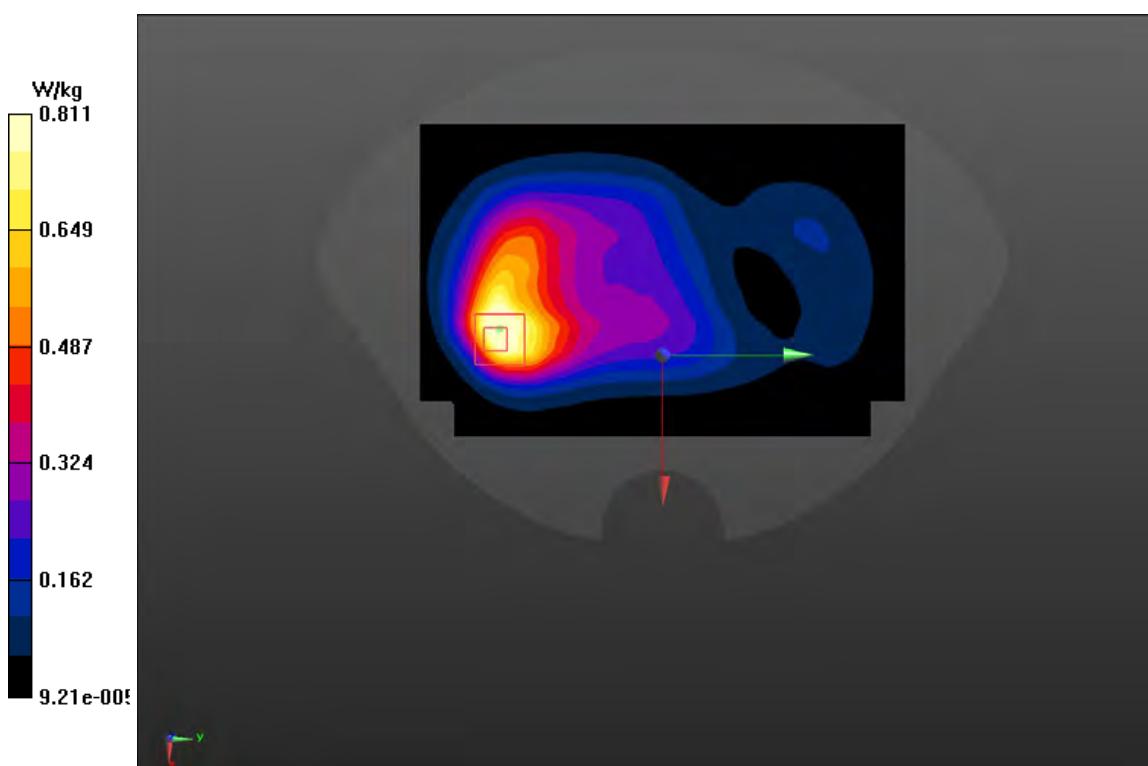


Fig A.4

WCDMA1900-BII_CH9262 Left Cheek

Date: 10/9/2022

Electronics: DAE4 Sn549

Medium: head 1900 MHz

 Medium parameters used: $f = 1852.4$; $\sigma = 1.344 \text{ mho/m}$; $\epsilon_r = 39.61$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1900-BII 1852.4 Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.794 W/kg

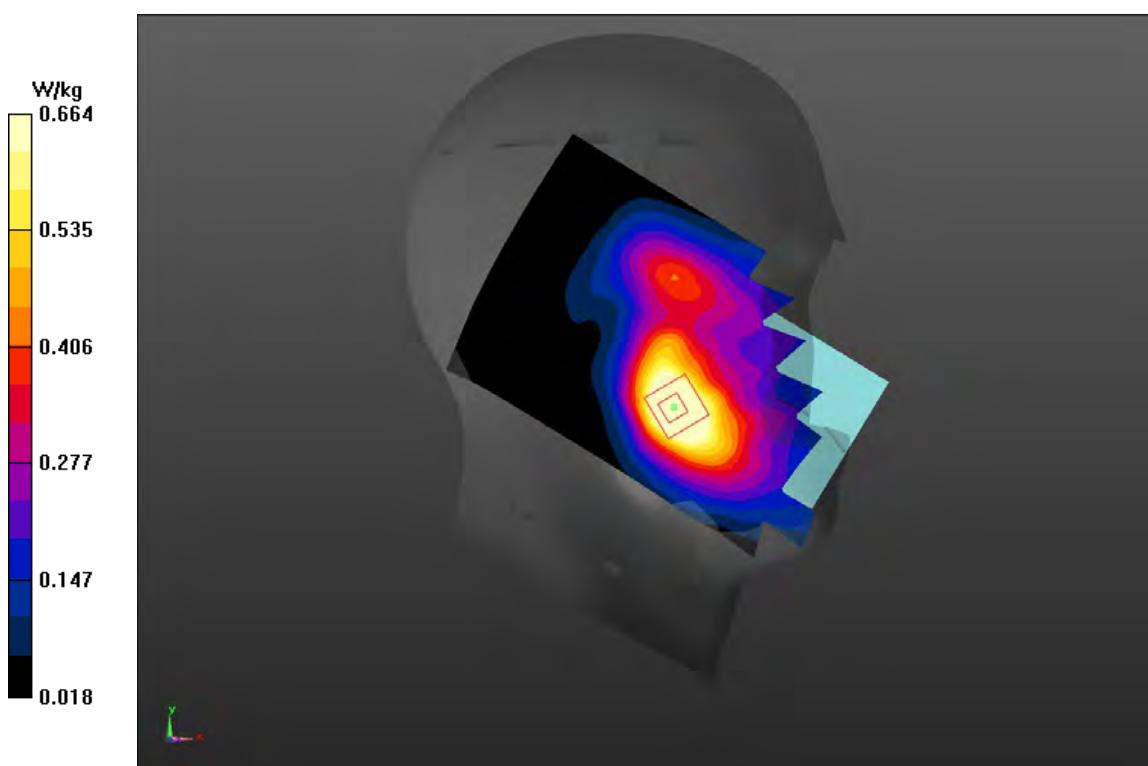
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.553 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.957 W/kg

SAR(1 g) = 0.615 W/kg; SAR(10 g) = 0.389 W/kg

Maximum value of SAR (measured) = 0.664 W/kg


Fig A.5

WCDMA1900-BII_CH9262 Left Edge 13mm

Date: 10/9/2022

Electronics: DAE4 Sn549

Medium: head 1900 MHz

Medium parameters used: $f = 1852.4$; $\sigma = 1.369$ mho/m; $\epsilon_r = 39.98$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1900-BII 1852.4 Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.17 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.84 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.69 W/kg; SAR(10 g) = 0.4 W/kg

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

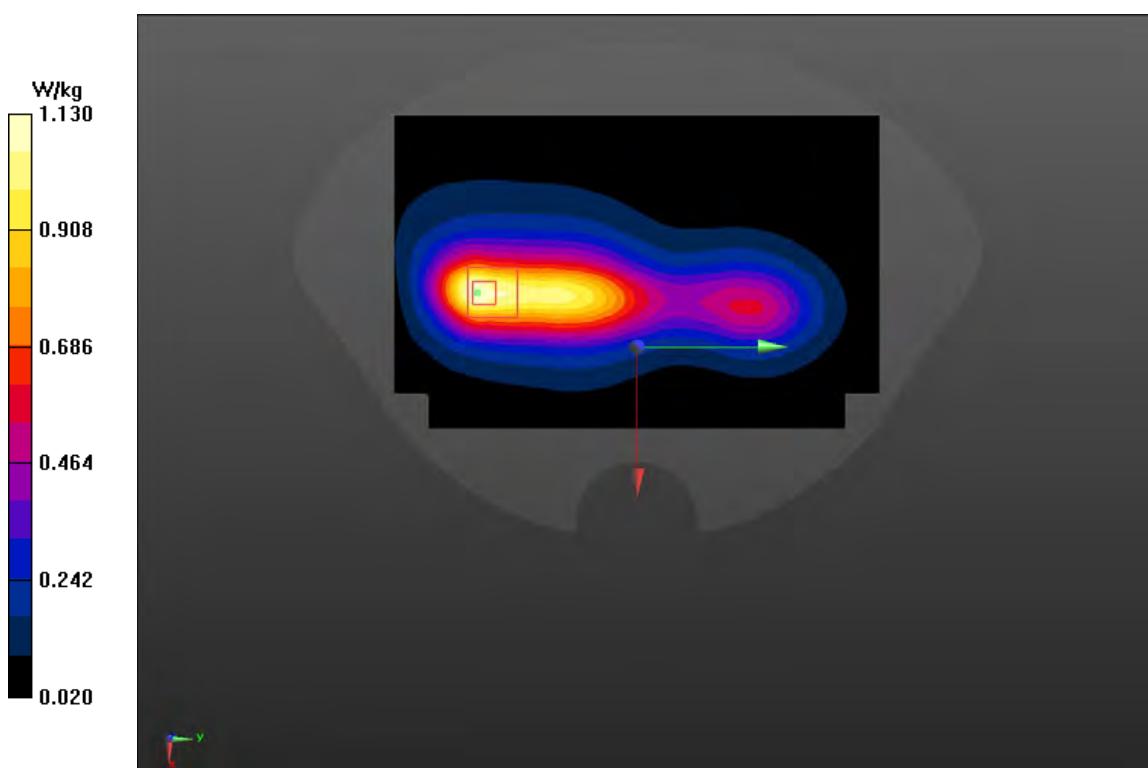


Fig A.6

WCDMA1700-BIV_CH1513 Right Cheek

Date: 10/8/2022

Electronics: DAE4 Sn549

Medium: head 1750 MHz

Medium parameters used: $f = 1752.6$; $\sigma = 1.383$ mho/m; $\epsilon_r = 40.68$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1700-BIV 1752.6 Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.548 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.85 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.585 W/kg

SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.237 W/kg

Maximum value of SAR (measured) = 0.404 W/kg

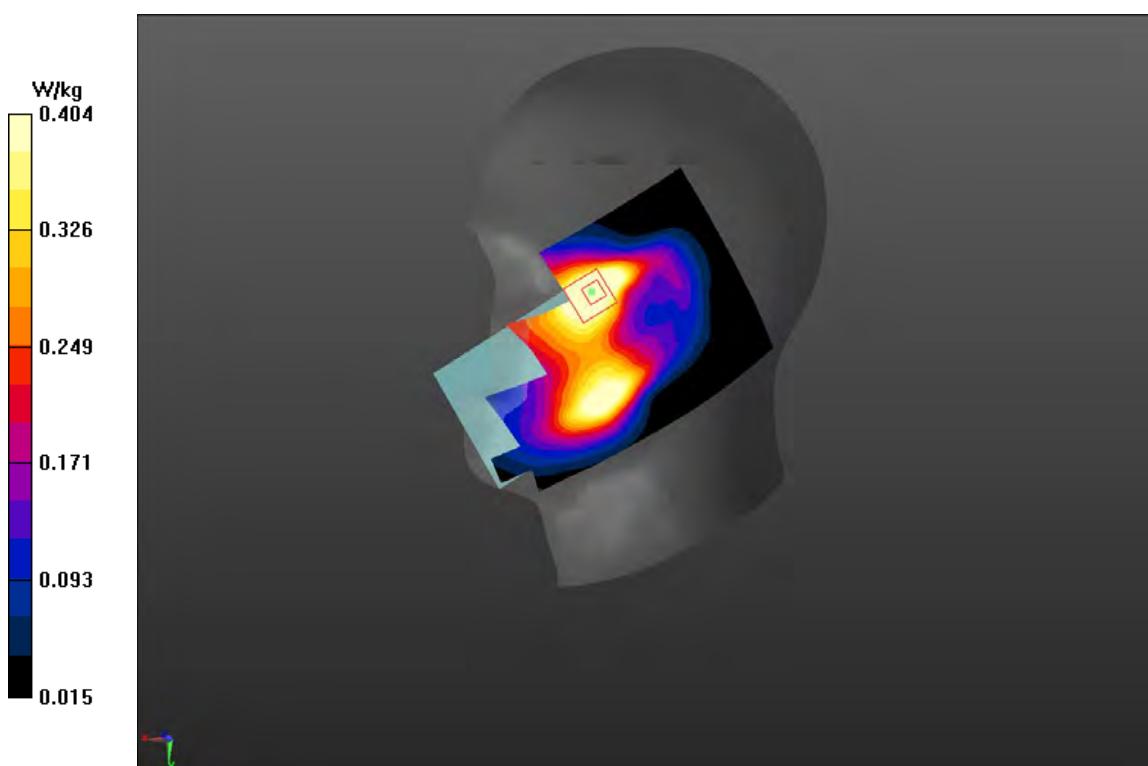


Fig A.7

WCDMA1700-BIV_CH1513 Left Edge 13mm

Date: 10/8/2022

Electronics: DAE4 Sn549

Medium: head 1750 MHz

 Medium parameters used: $f = 1752.6$; $\sigma = 1.395 \text{ mho/m}$; $\epsilon_r = 39.95$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA1700-BIV 1752.6 Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.09 W/kg

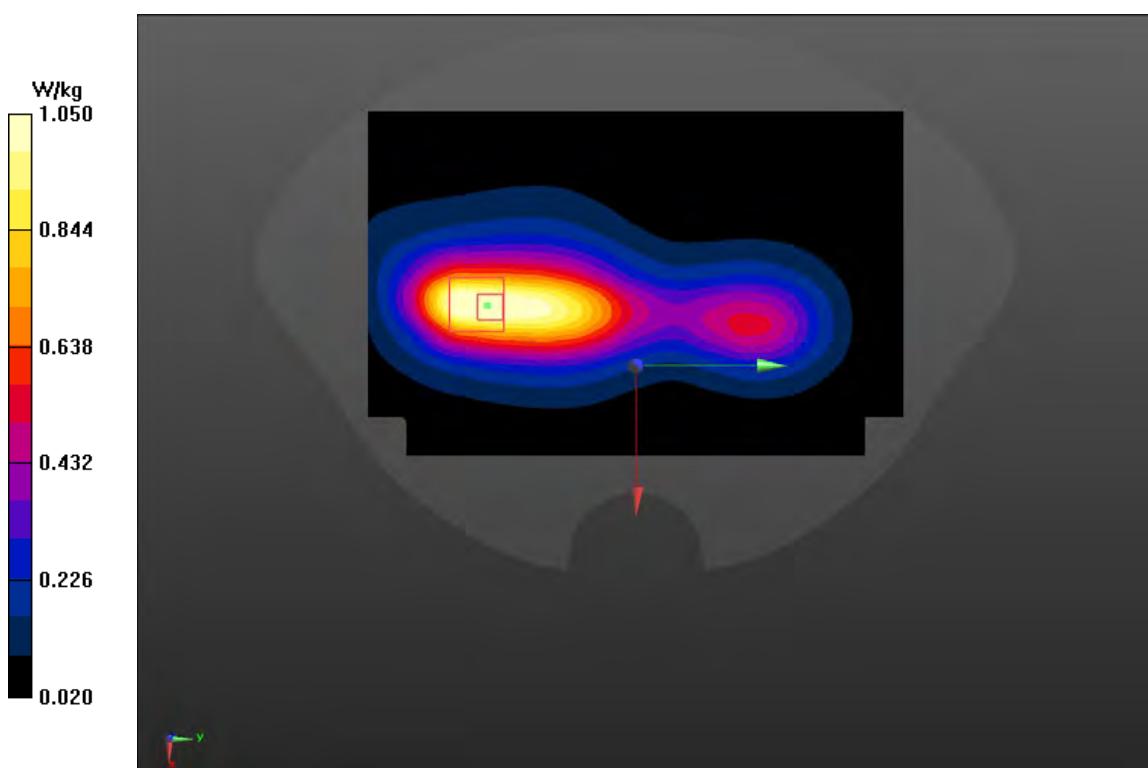
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.1 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.651 W/kg; SAR(10 g) = 0.394 W/kg

Maximum value of SAR (measured) = 1.05 W/kg


Fig A.8

WCDMA850-BV_CH4183 Right Cheek

Date: 10/6/2022

Electronics: DAE4 Sn549

Medium: head 835 MHz

 Medium parameters used: $f = 836.6$; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.26$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA850-BV 836.6 Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.419 W/kg

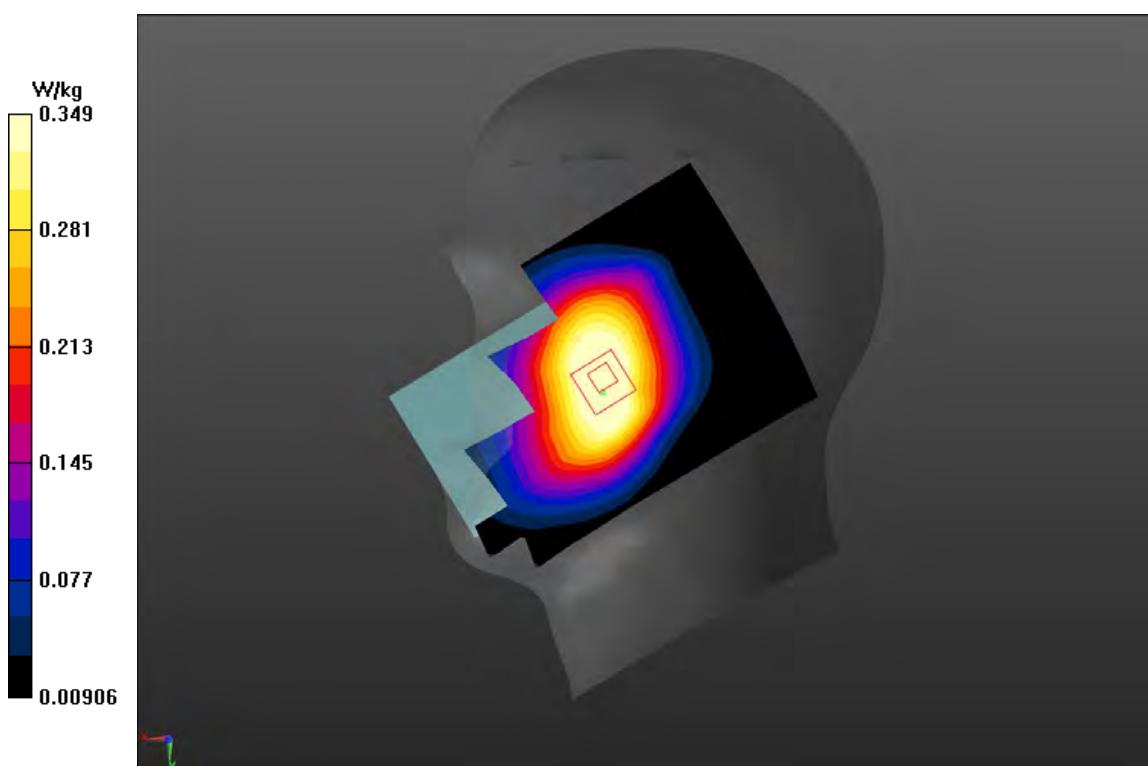
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.162 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 0.311 W/kg


Fig A.9

WCDMA850-BV_CH4183 Rear 10mm

Date: 10/6/2022

Electronics: DAE4 Sn549

Medium: head 835 MHz

 Medium parameters used: $f = 836.6$; $\sigma = 0.894$ mho/m; $\epsilon_r = 41.39$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: WCDMA850-BV 836.6 Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.578 W/kg

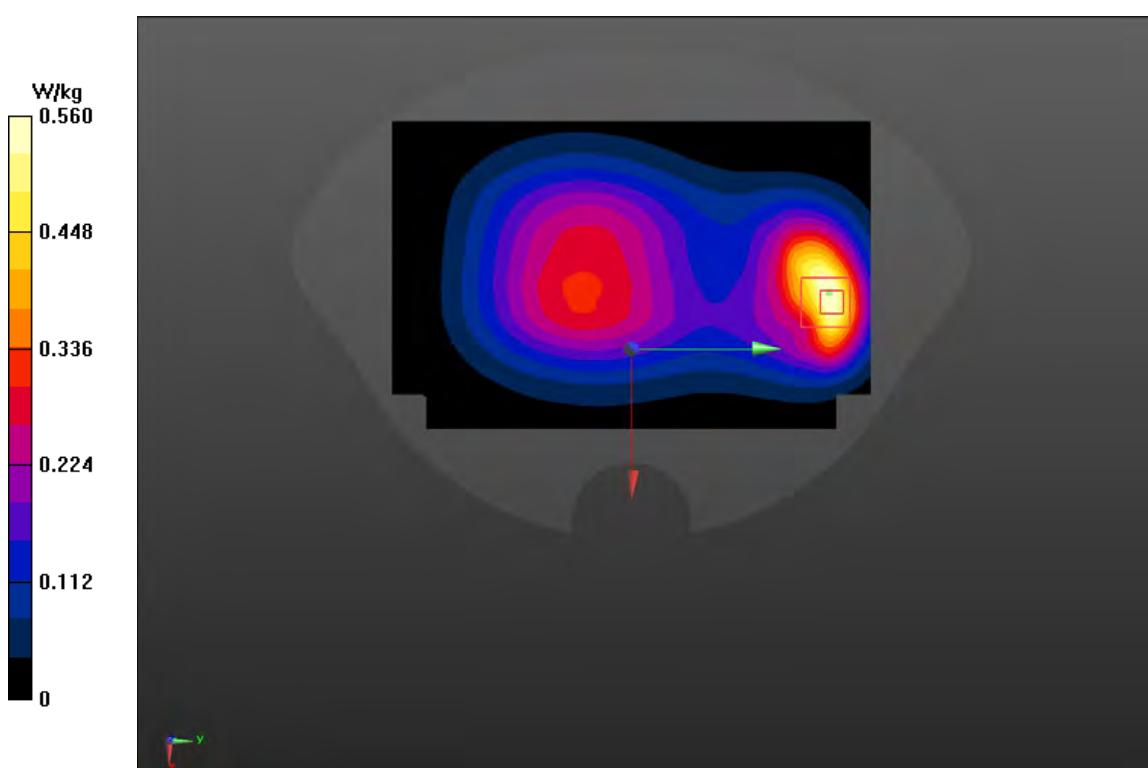
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.08 V/m; Power Drift = -0.3 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.375 W/kg

Maximum value of SAR (measured) = 0.924 W/kg


Fig A.10

LTE1900-FDD2_CH18900 50RB-Middle Right Tilt

Date: 10/10/2022

Electronics: DAE4 Sn549

Medium: head 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.371$ mho/m; $\epsilon_r = 39.57$; $\rho = 1000$ kg/m 3

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1900-FDD2 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.2 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.66 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 0.738 W/kg

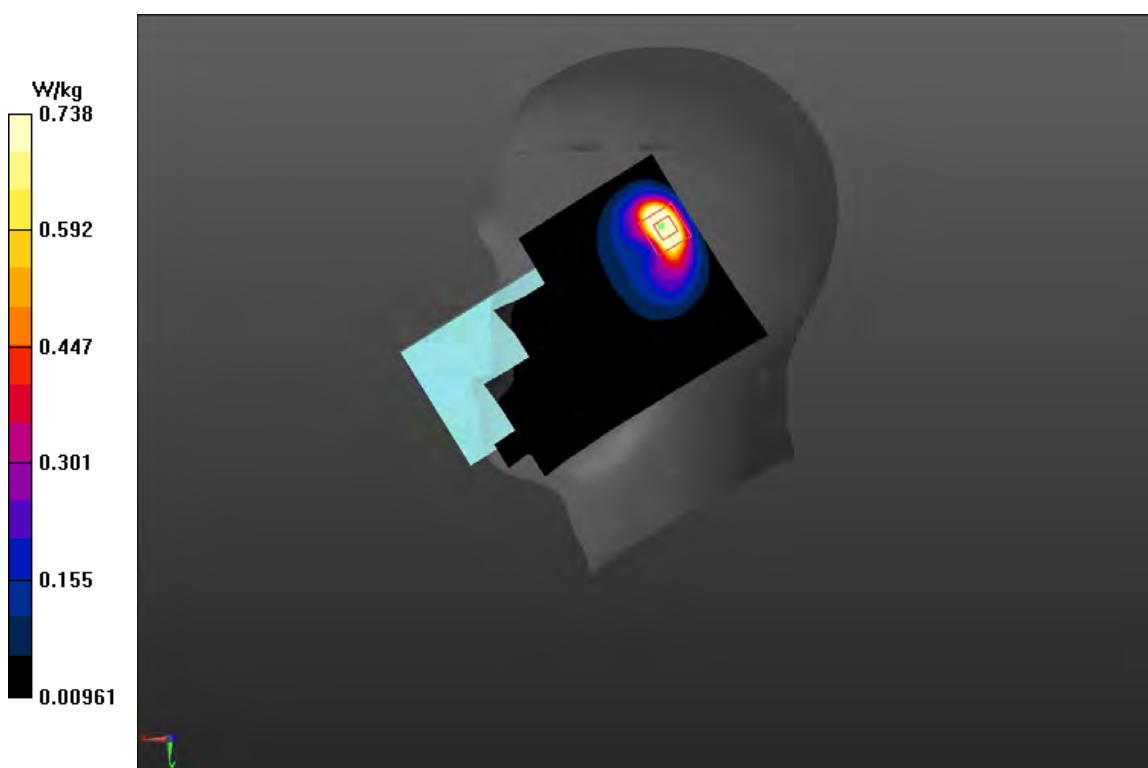


Fig A.11

LTE1900-FDD2_CH18900 1RB-Low Top Edge 24mm

Date: 10/10/2022

Electronics: DAE4 Sn549

Medium: head 1900 MHz

 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.396$ mho/m; $\epsilon_r = 39.94$; $\rho = 1000$ kg/m 3

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1900-FDD2 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.303 W/kg

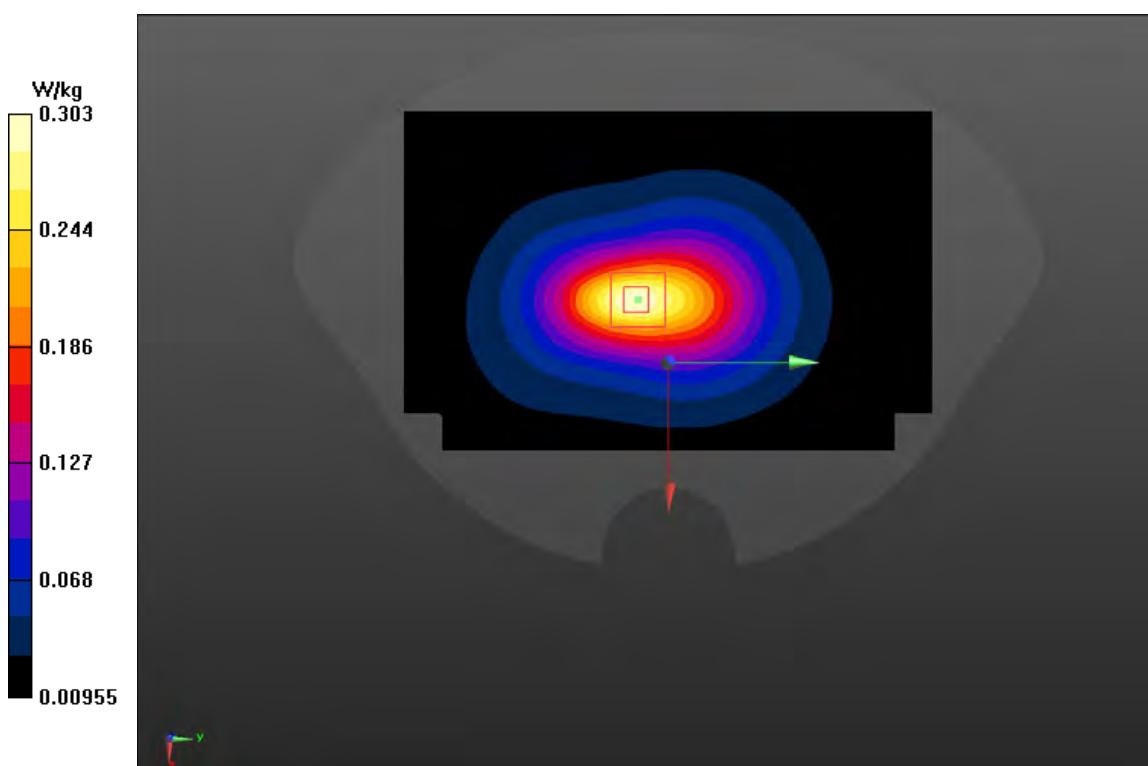
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.94 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.359 W/kg

SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.126 W/kg

Maximum value of SAR (measured) = 0.303 W/kg


Fig A.12

LTE700-FDD12_CH23130 1RB-Low Right Cheek

Date: 10/4/2022

Electronics: DAE4 Sn549

Medium: head 750 MHz

Medium parameters used: $f = 711$ MHz; $\sigma = 0.843$ mho/m; $\epsilon_r = 41.76$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.35 W/kg

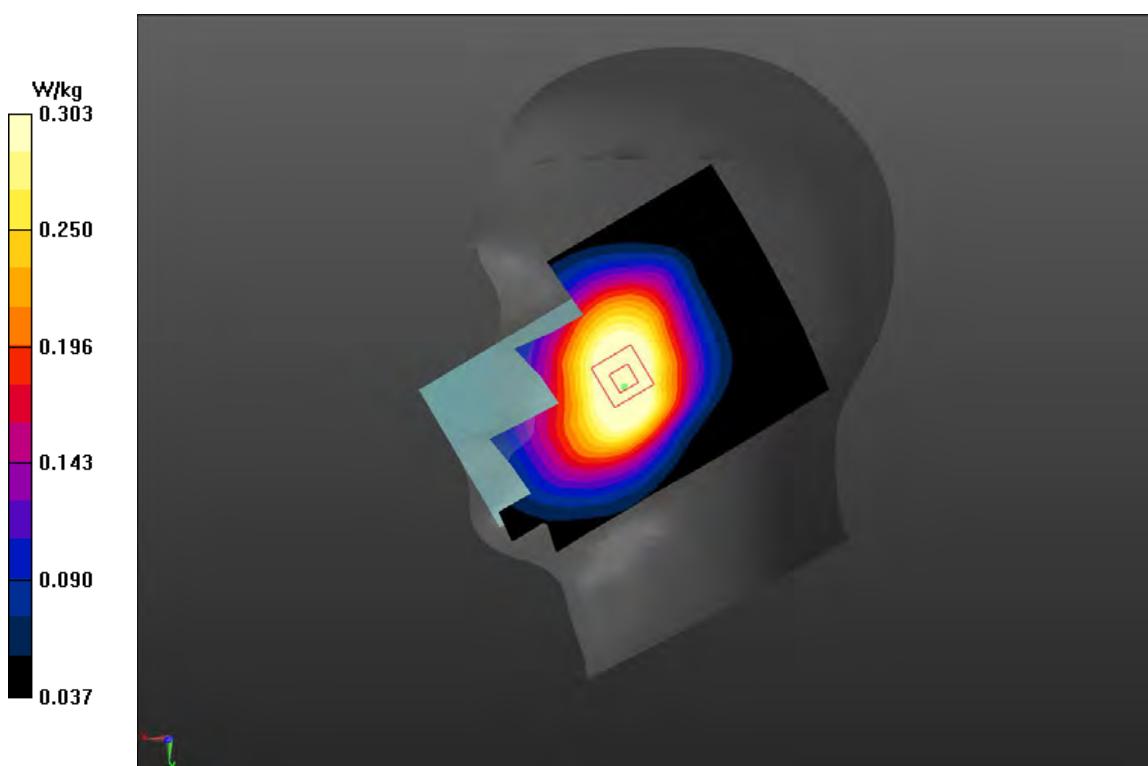
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.939 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.363 W/kg

SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 0.303 W/kg

**Fig A.13**

LTE700-FDD12_CH23130 1RB-Low Rear 10mm

Date: 10/4/2022

Electronics: DAE4 Sn549

Medium: head 750 MHz

Medium parameters used: $f = 711$ MHz; $\sigma = 0.856$ mho/m; $\epsilon_r = 42.62$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE700-FDD12 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.448 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.86 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.55 W/kg

SAR(1 g) = 0.3 W/kg; SAR(10 g) = 0.181 W/kg

Maximum value of SAR (measured) = 0.449 W/kg

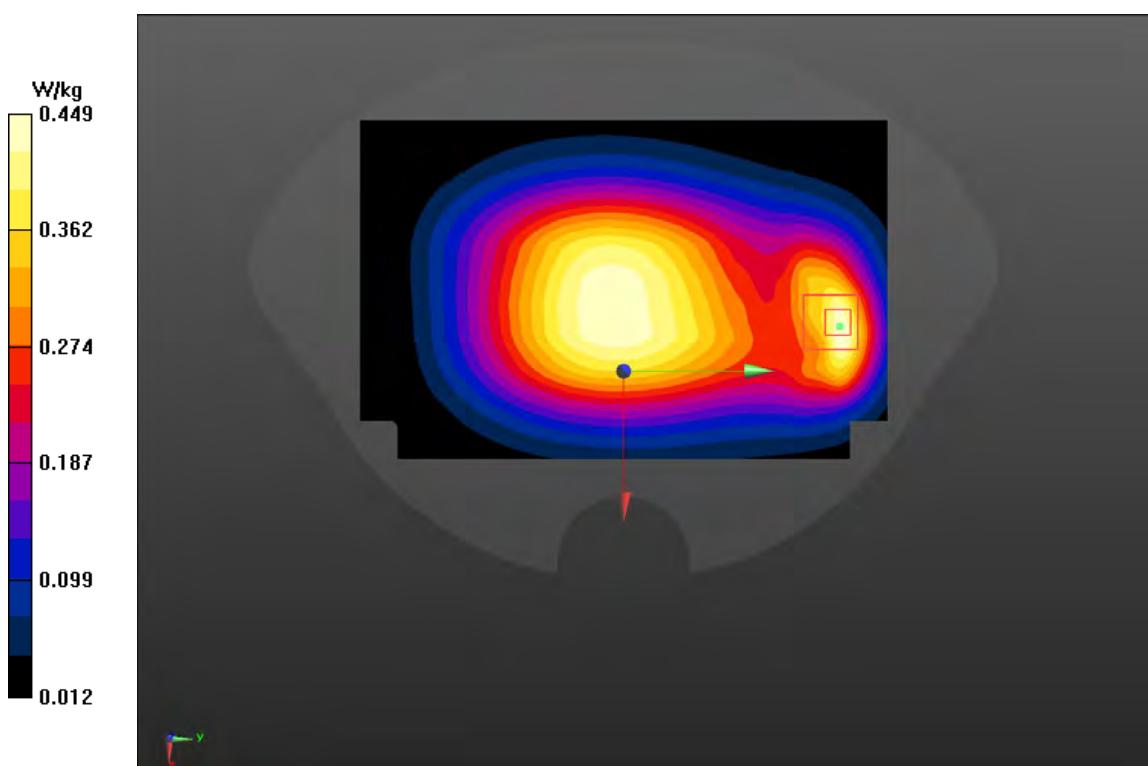


Fig A.14

LTE700-FDD14_CH23330 1RB-Low Right Cheek

Date: 10/4/2022

Electronics: DAE4 Sn549

Medium: head 750 MHz

Medium parameters used: $f = 793$ MHz; $\sigma = 0.921$ mho/m; $\epsilon_r = 41.66$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE700-FDD14 793 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.299 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.985 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.261 W/kg

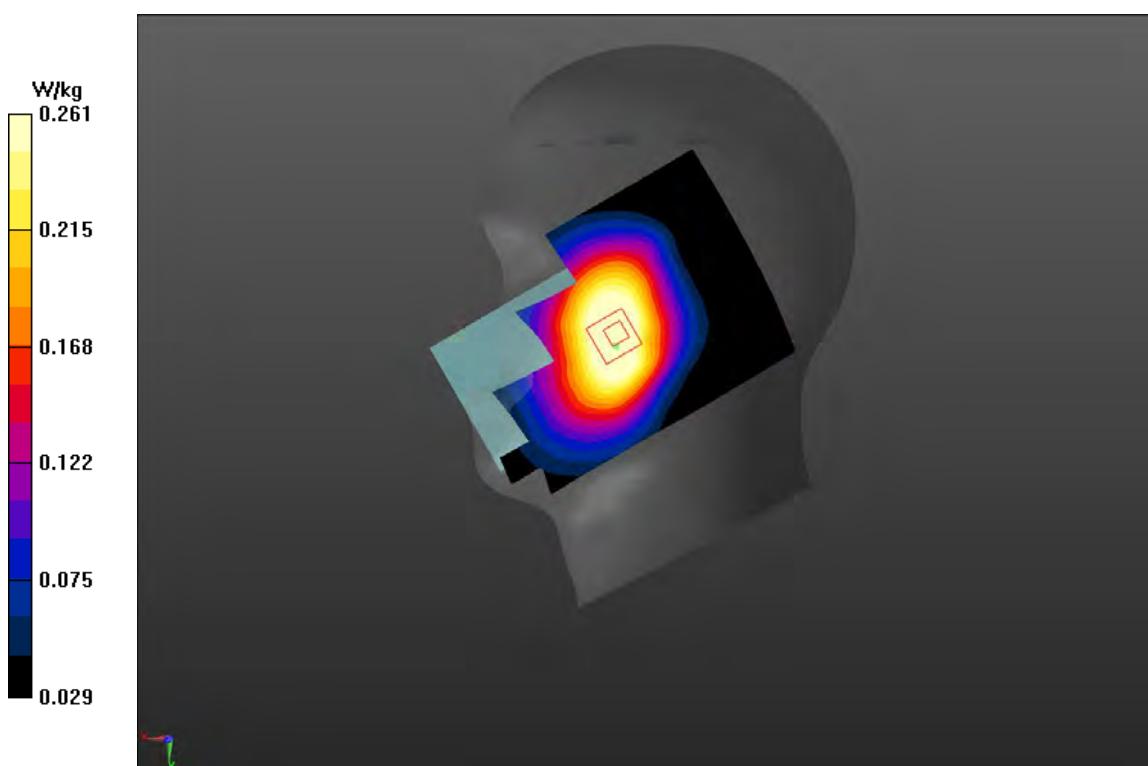


Fig A.15

LTE700-FDD14_CH23330 1RB-Low Rear 10mm

Date: 10/4/2022

Electronics: DAE4 Sn549

Medium: head 750 MHz

 Medium parameters used: $f = 793$ MHz; $\sigma = 0.934$ mho/m; $\epsilon_r = 42.52$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE700-FDD14 793 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.569 W/kg

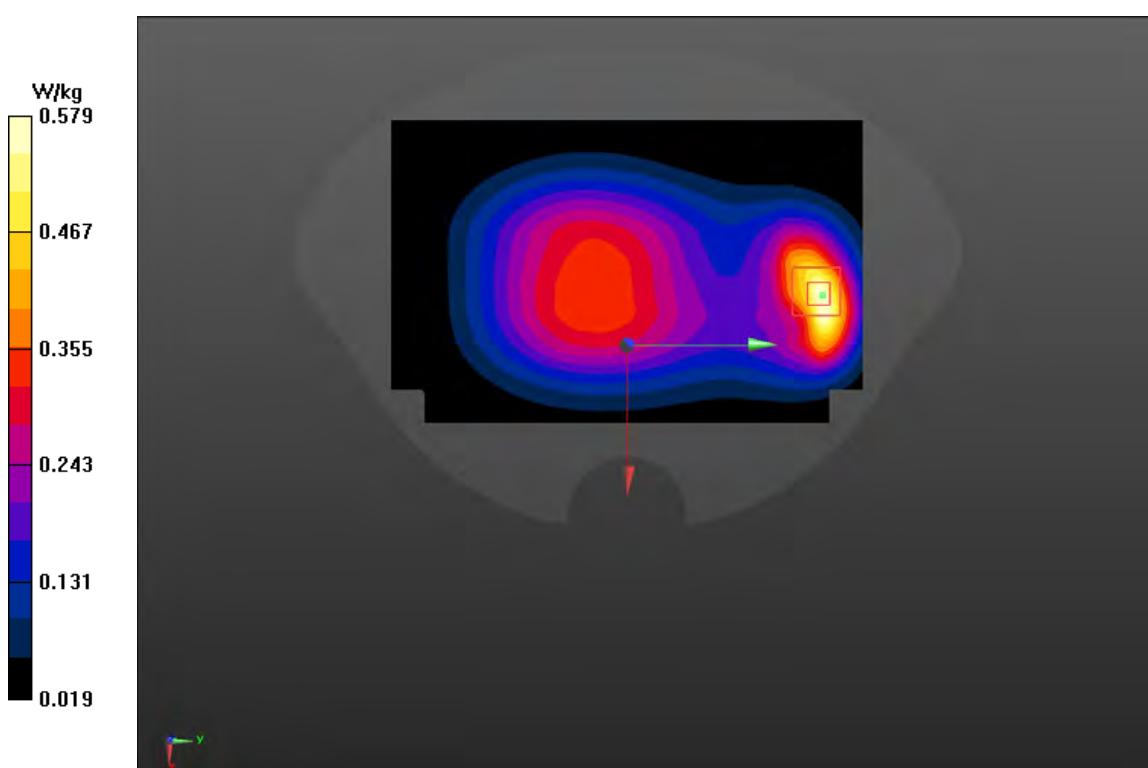
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.87 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.701 W/kg

SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.579 W/kg


Fig A.16

LTE1900-FDD25_CH26590 1RB-Low Left Cheek

Date: 10/10/2022

Electronics: DAE4 Sn549

Medium: head 1900 MHz

 Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.395 \text{ mho/m}$; $\epsilon_r = 39.54$; $\rho = 1000 \text{ kg/m}^3$

 Ambient Temperature: 22.5°C , Liquid Temperature: 22.3°C

Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.642 W/kg

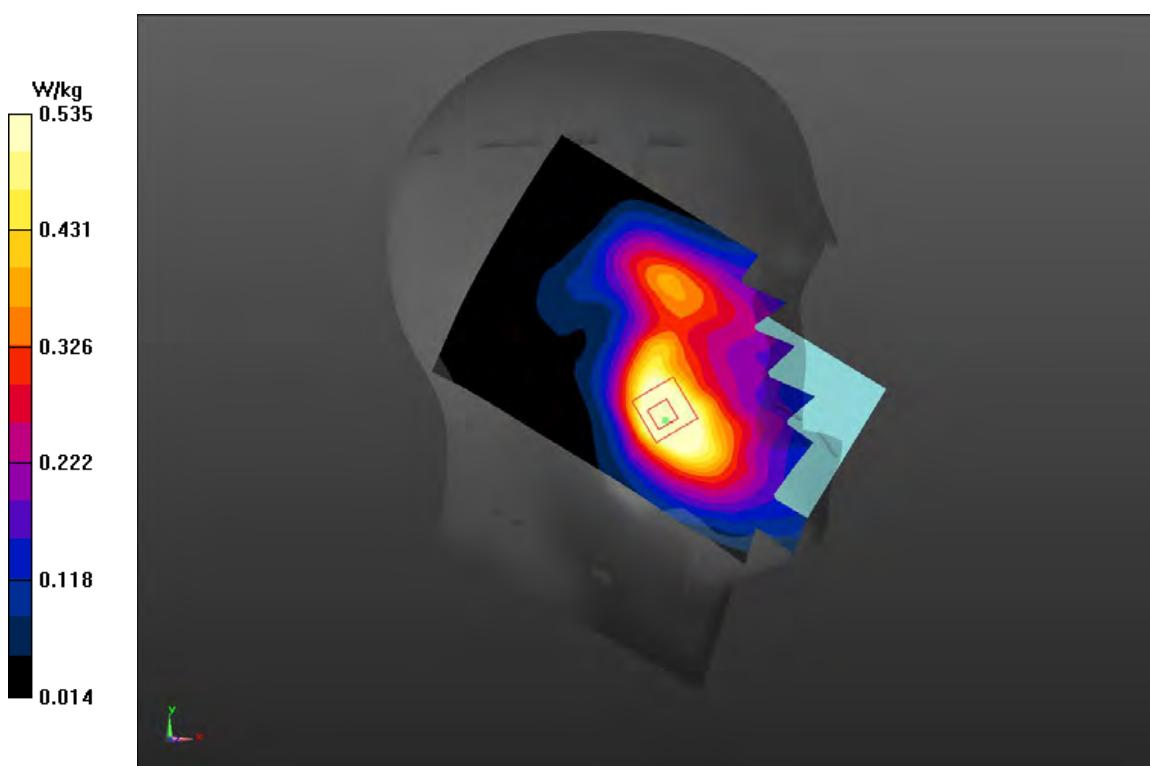
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.794 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.789 W/kg

SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.313 W/kg

Maximum value of SAR (measured) = 0.535 W/kg


Fig A.17

LTE1900-FDD25_CH26590 1RB-Middle Rear 10mm

Date: 10/10/2022

Electronics: DAE4 Sn549

Medium: head 1900 MHz

 Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 39.91$; $\rho = 1000 \text{ kg/m}^3$

 Ambient Temperature: 22.5°C , Liquid Temperature: 22.3°C

Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.485 W/kg

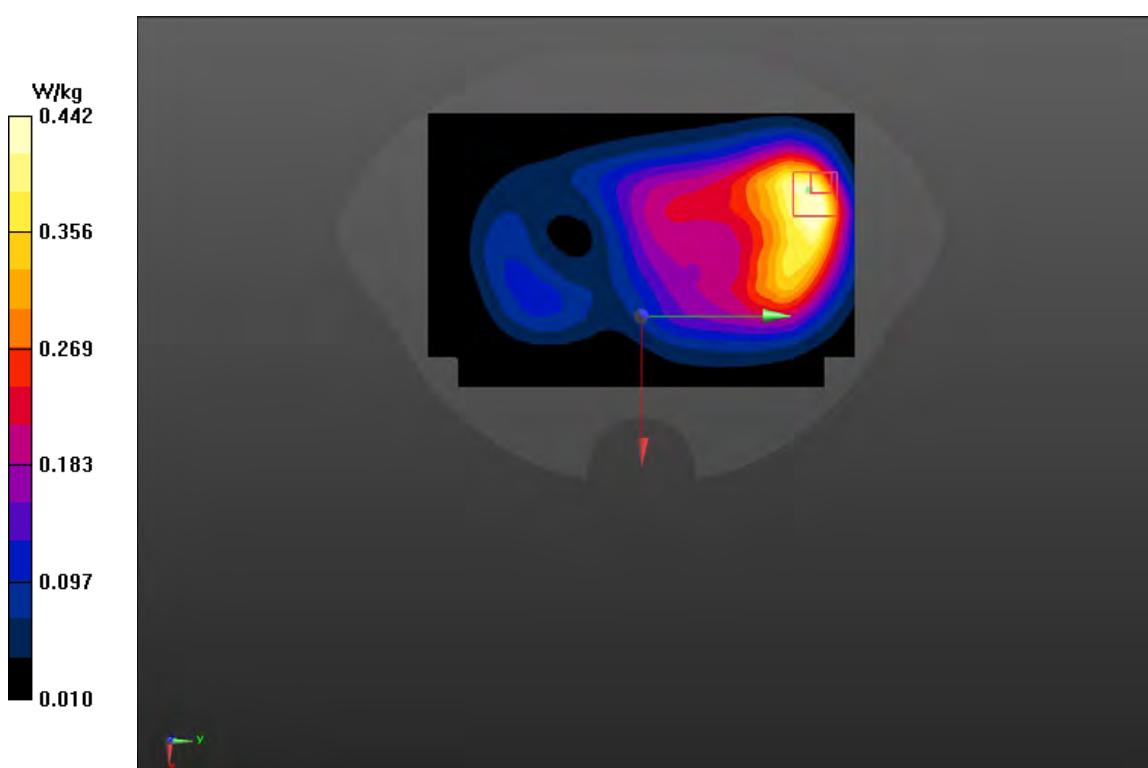
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.38 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 0.442 W/kg


Fig A.18

LTE850-FDD26_CH26775 1RB-Low Right Cheek

Date: 10/7/2022

Electronics: DAE4 Sn549

Medium: head 835 MHz

 Medium parameters used: $f = 822.5 \text{ MHz}$; $\sigma = 0.896 \text{ mho/m}$; $\epsilon_r = 41.28$; $\rho = 1000 \text{ kg/m}^3$

 Ambient Temperature: 22.5°C , Liquid Temperature: 22.3°C

Communication System: LTE850-FDD26 822.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.331 W/kg

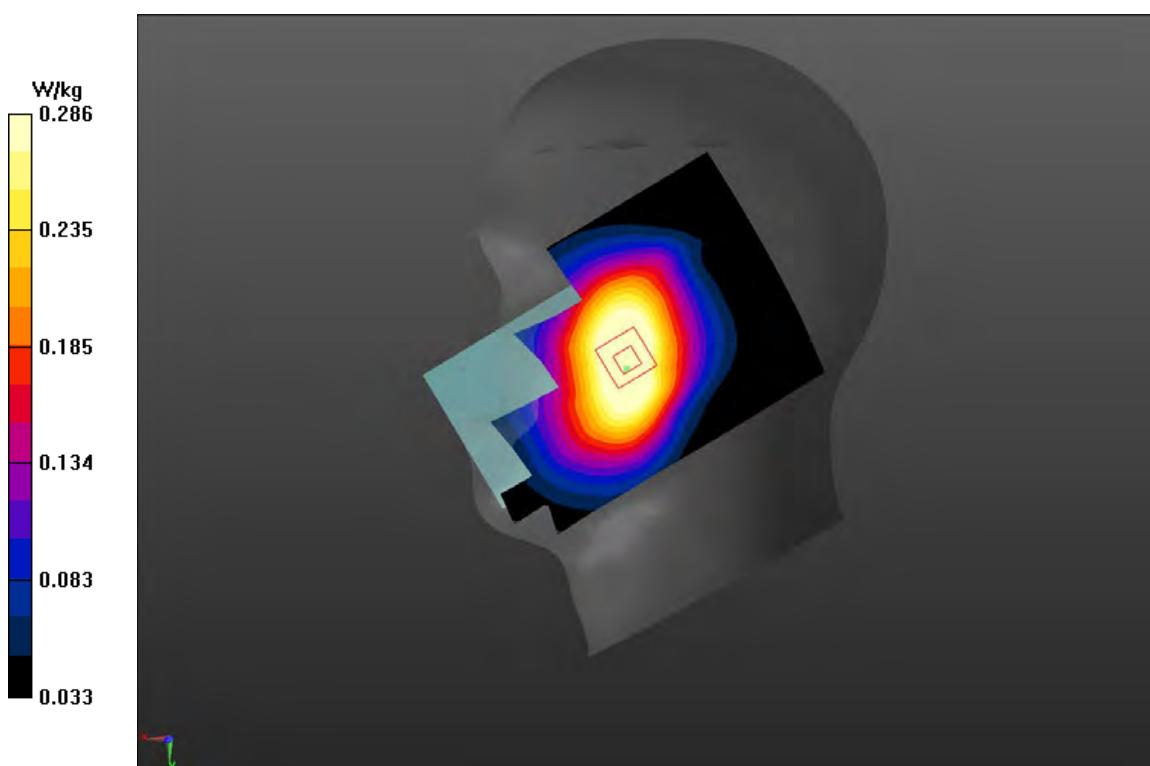
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.933 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.205 W/kg

Maximum value of SAR (measured) = 0.286 W/kg


Fig A.19

LTE850-FDD26_CH26775 1RB-Low Rear 10mm

Date: 10/7/2022

Electronics: DAE4 Sn549

Medium: head 835 MHz

 Medium parameters used: $f = 822.5 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.41$; $\rho = 1000 \text{ kg/m}^3$

 Ambient Temperature: 22.5°C , Liquid Temperature: 22.3°C

Communication System: LTE850-FDD26 822.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.635 W/kg

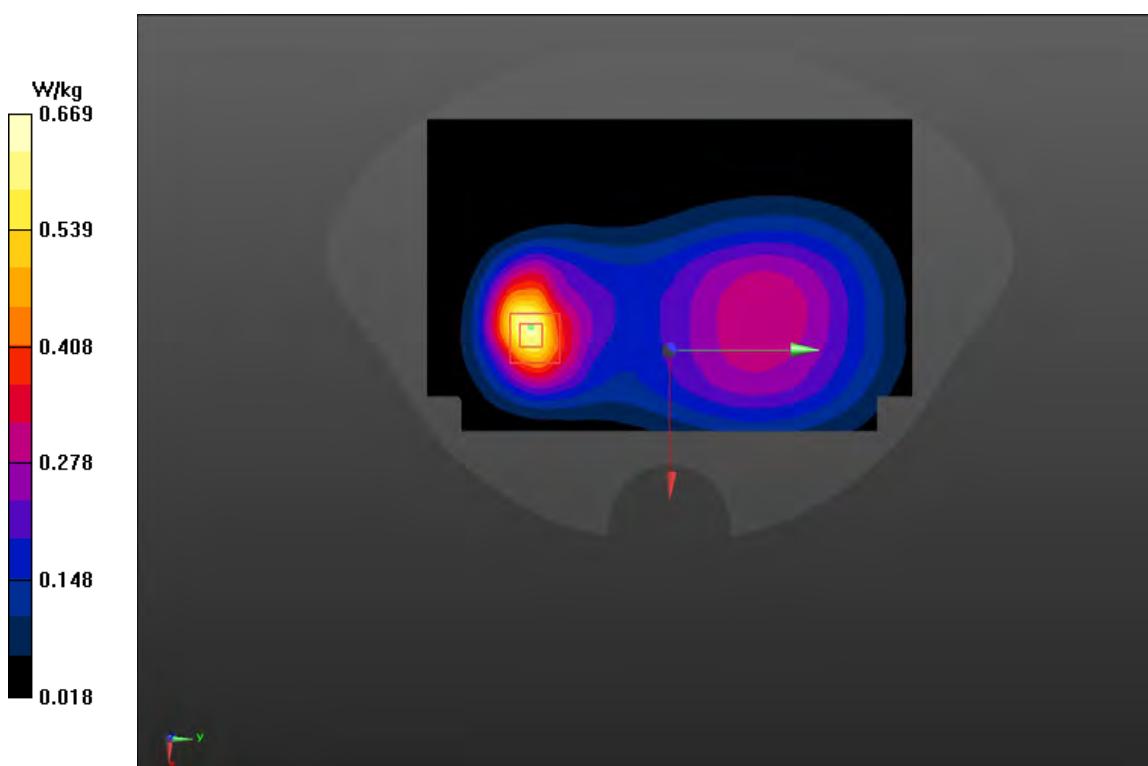
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.31 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.818 W/kg

SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.266 W/kg

Maximum value of SAR (measured) = 0.669 W/kg


Fig A.20

LTE850-FDD26_CH26965 1RB-Low Right Edge 10mm

Date: 10/7/2022

Electronics: DAE4 Sn549

Medium: head 835 MHz

 Medium parameters used: $f = 841.5 \text{ MHz}$; $\sigma = 0.899 \text{ mho/m}$; $\epsilon_r = 41.38$; $\rho = 1000 \text{ kg/m}^3$

 Ambient Temperature: 22.5°C , Liquid Temperature: 22.3°C

Communication System: LTE850-FDD26 841.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.353 W/kg

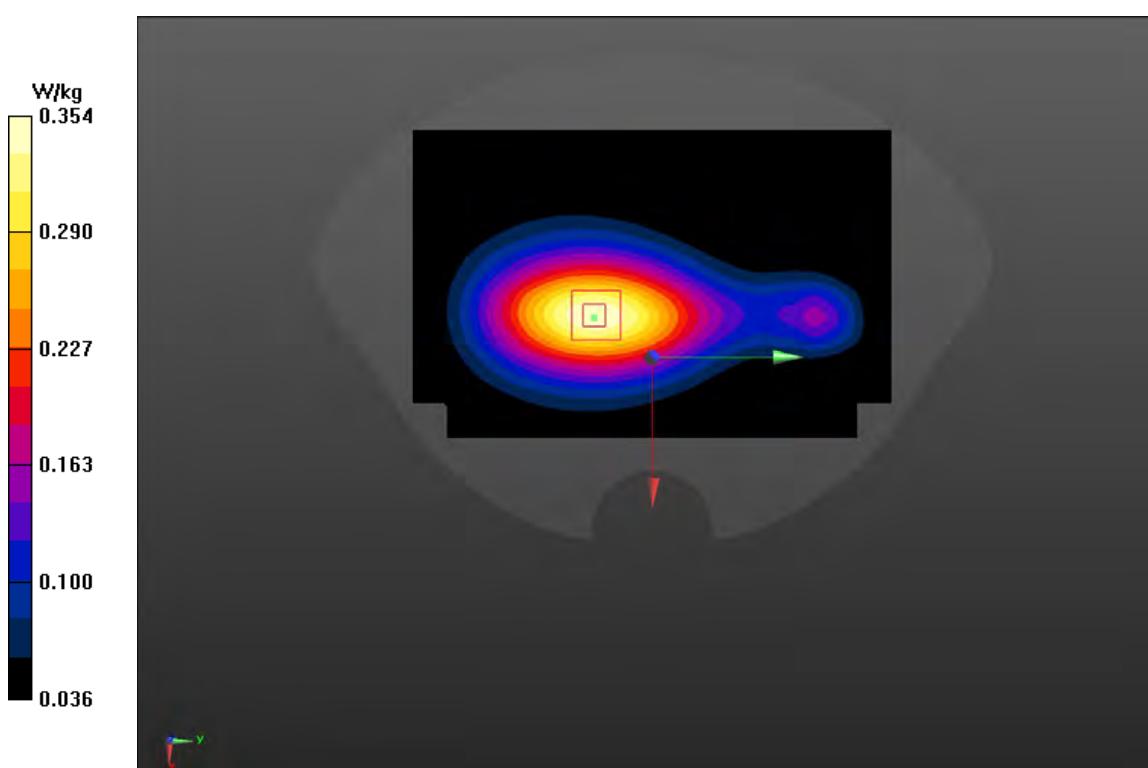
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.14 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.395 W/kg

SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.354 W/kg


Fig A.21

LTE2300-FDD30_CH27710 1RB-Low Right Tilt

Date: 10/11/2022

Electronics: DAE4 Sn549

Medium: head 2300 MHz

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.684$ mho/m; $\epsilon_r = 40.06$; $\rho = 1000$ kg/m 3

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE2300-FDD30 2310 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.36,8.36,8.36)

Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.631 W/kg

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

Reference Value = 6.524 V/m; Power Drift = -0.29 dB

Peak SAR (extrapolated) = 0.785 W/kg

SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.162 W/kg

Maximum value of SAR (measured) = 0.357 W/kg

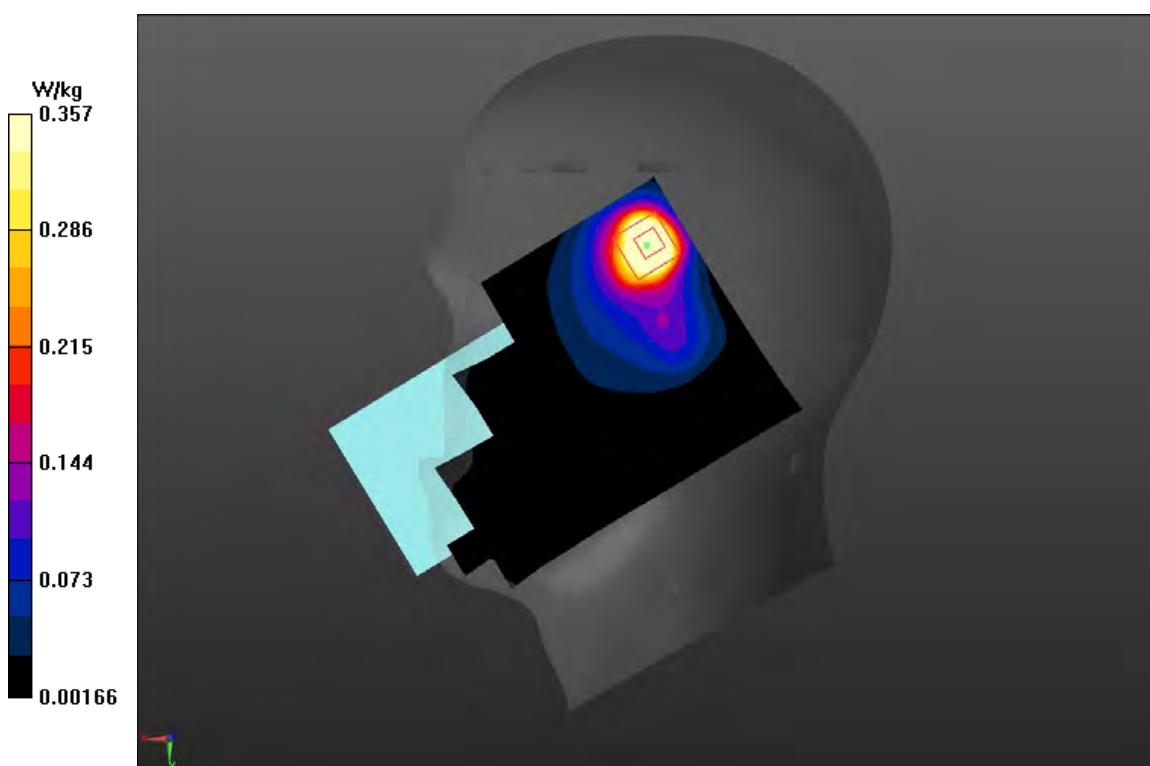


Fig A.22

LTE2300-FDD30_CH27710 1RB-Low Rear 10mm

Date: 10/11/2022

Electronics: DAE4 Sn549

Medium: head 2300 MHz

 Medium parameters used: $f = 2310 \text{ MHz}$; $\sigma = 1.662 \text{ mho/m}$; $\epsilon_r = 38.82$; $\rho = 1000 \text{ kg/m}^3$

 Ambient Temperature: 22.5°C , Liquid Temperature: 22.3°C

Communication System: LTE2300-FDD30 2310 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.36,8.36,8.36)

Area Scan (71x121x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.438 W/kg

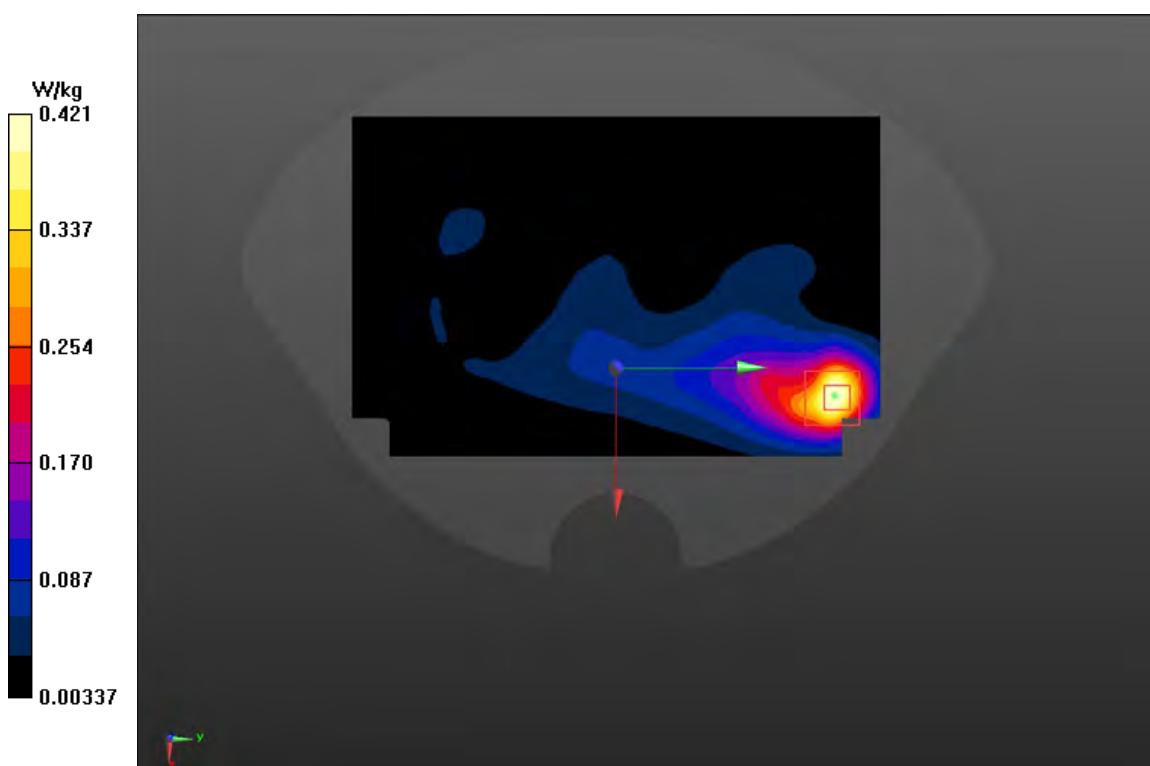
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.393 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.421 W/kg


Fig A.23

LTE2300-FDD30_CH27710 1RB-Low Left Cheek

Date: 10/11/2022

Electronics: DAE4 Sn549

Medium: head 2300 MHz

Medium parameters used: $f = 2310 \text{ MHz}$; $\sigma = 1.684 \text{ mho/m}$; $\epsilon_r = 40.06$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.5°C , Liquid Temperature: 22.3°C

Communication System: LTE2300-FDD30 2310 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.36,8.36,8.36)

Area Scan (71x121x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0379 W/kg

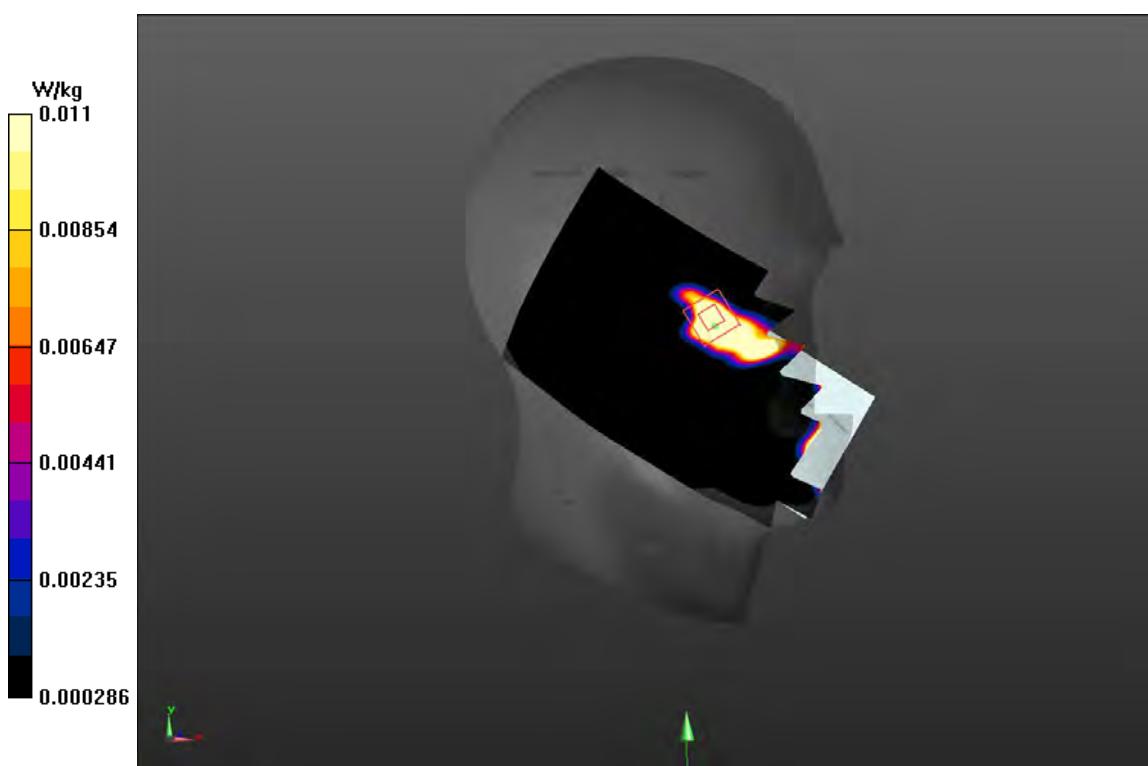
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.027 W/kg

SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.01 W/kg

Maximum value of SAR (measured) = 0.0106 W/kg

**Fig A.24**

LTE2300-FDD30_CH27710 1RB-Low Bottom Edge 19mm

Date: 10/11/2022

Electronics: DAE4 Sn549

Medium: head 2300 MHz

 Medium parameters used: $f = 2310 \text{ MHz}$; $\sigma = 1.662 \text{ mho/m}$; $\epsilon_r = 38.82$; $\rho = 1000 \text{ kg/m}^3$

 Ambient Temperature: 22.5°C , Liquid Temperature: 22.3°C

Communication System: LTE2300-FDD30 2310 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.36,8.36,8.36)

Area Scan (71x121x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

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

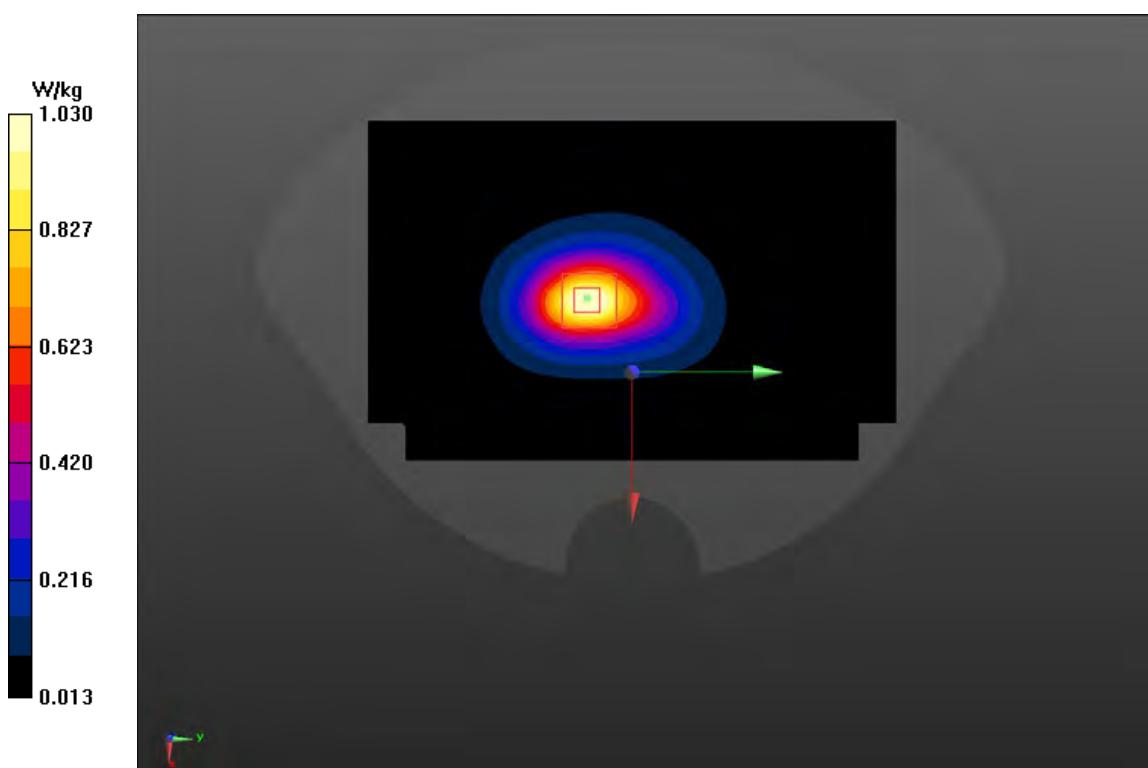
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.65 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.375 W/kg

Maximum value of SAR (measured) = 1.03 W/kg


Fig A.25

LTE2600-TDD41_CH41055 1RB-High Right Tilt

Date: 10/12/2022

Electronics: DAE4 Sn549

Medium: head 2600 MHz

Medium parameters used: $f = 2636.5$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE2600-TDD41 2636.5 Duty Cycle: 1:2.309

Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.441 W/kg

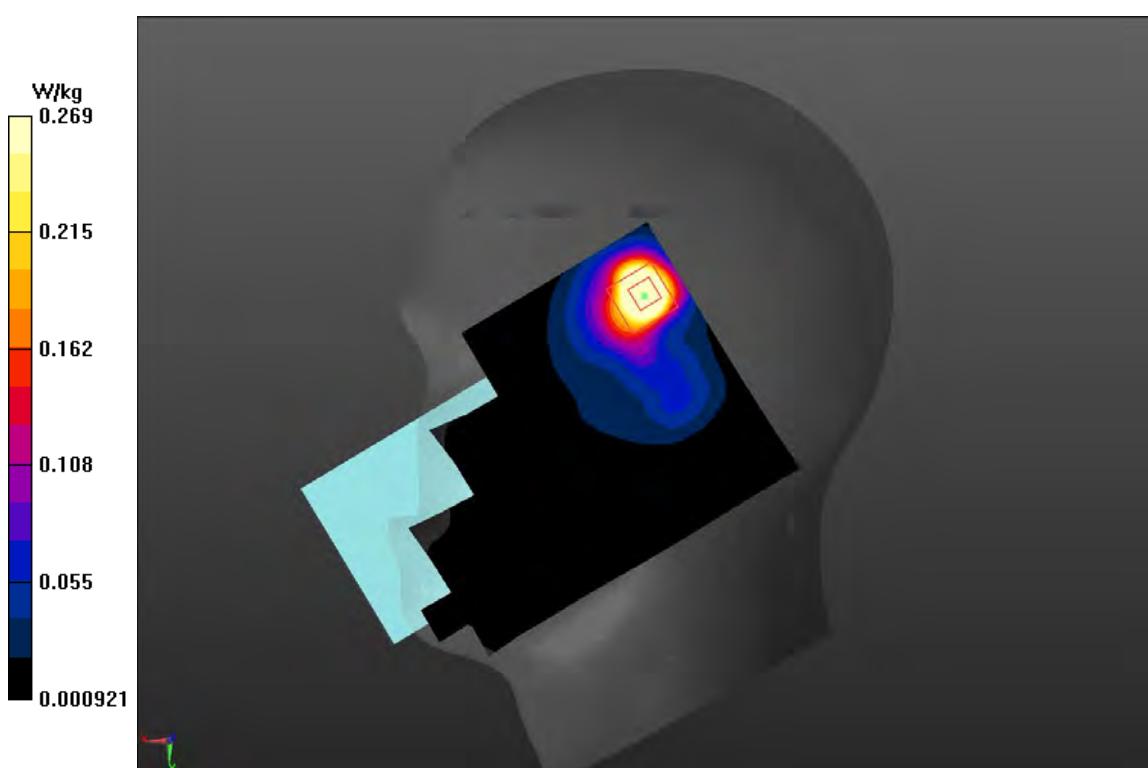
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.585 V/m; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.311 W/kg

**Fig A.26**

LTE2600-TDD41_CH41055 50RB-High Top Edge 10mm

Date: 10/12/2022

Electronics: DAE4 Sn549

Medium: head 2600 MHz

 Medium parameters used: $f = 2636.5$; $\sigma = 1.95 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE2600-TDD41 2636.5 Duty Cycle: 1:2.309

Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

Area Scan (71x121x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.424 W/kg

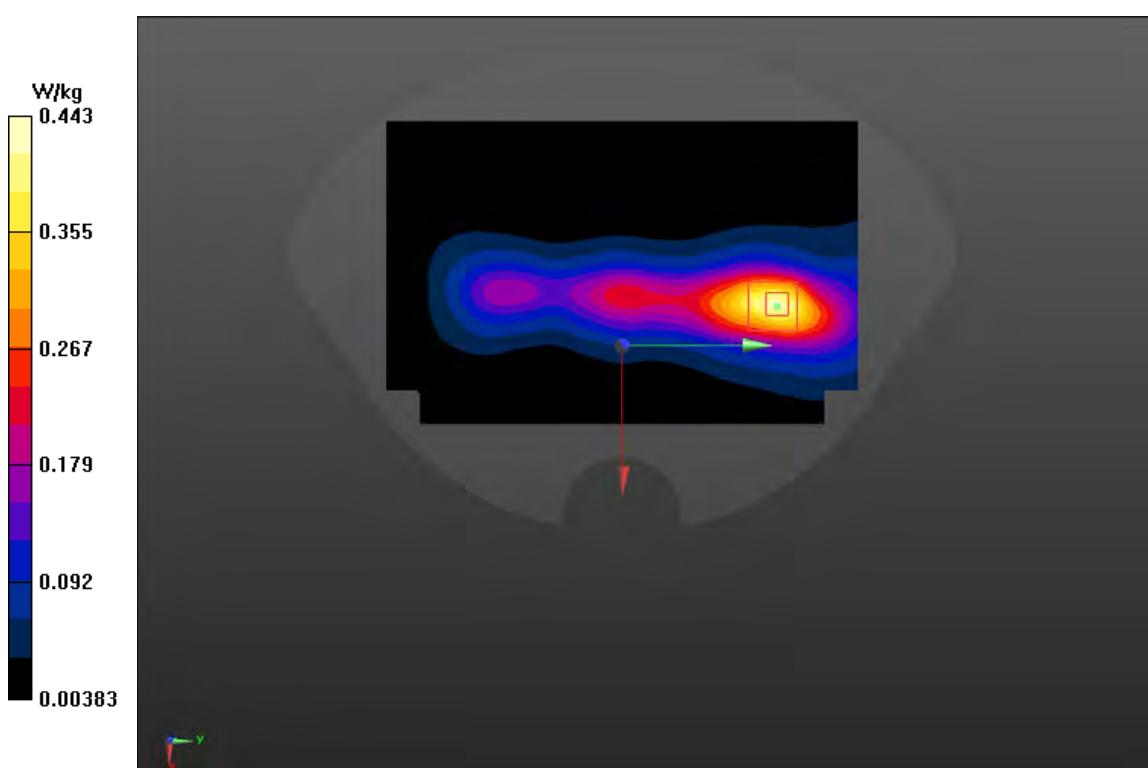
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.897 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.55 W/kg

SAR(1 g) = 0.715 W/kg; SAR(10 g) = 0.316 W/kg

Maximum value of SAR (measured) = 1.22 W/kg


Fig A.27/28

LTE3600-TDD48_CH55990 50RB-Middle Right Tilt

Date: 10/13/2022

Electronics: DAE4 Sn549

Medium: head 3600 MHz

 Medium parameters used: $f = 4840$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE3600-TDD48 3625 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.385 W/kg

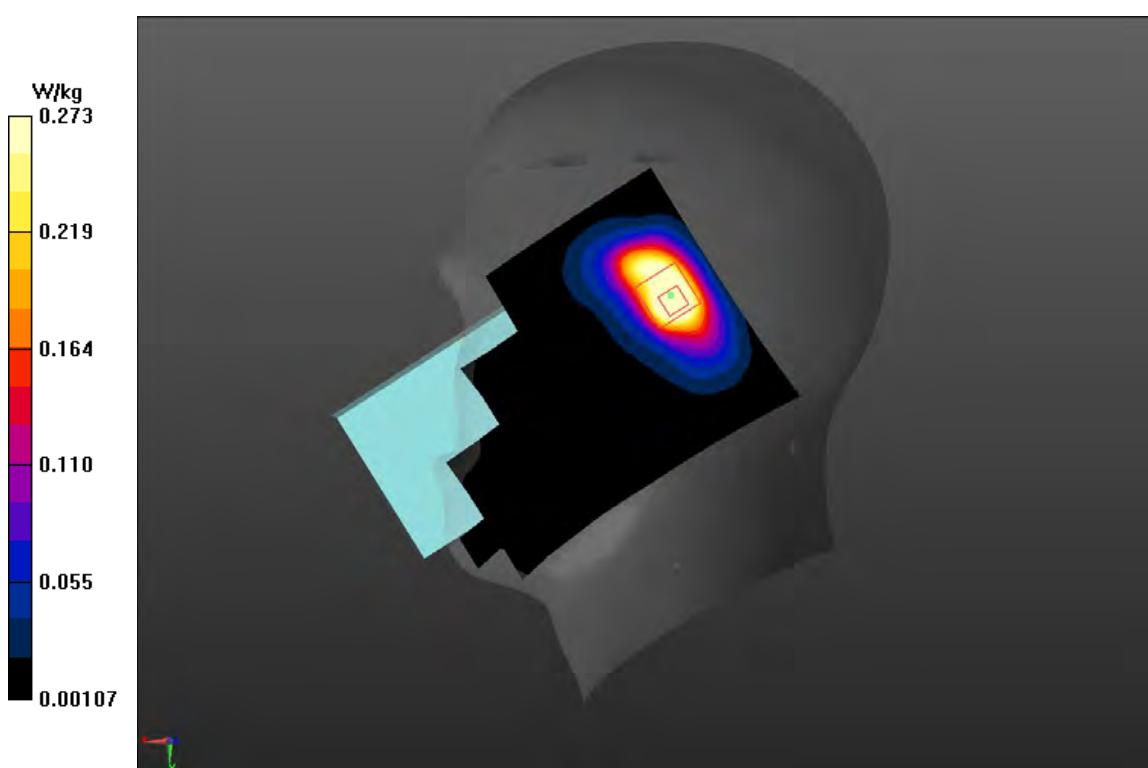
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 12.4 V/m; Power Drift = -0.28 dB

Peak SAR (extrapolated) = 0.66 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.101 W/kg

Maximum value of SAR (measured) = 0.273 W/kg


Fig A.29

LTE3600-TDD48_CH55990 1RB-Low Top Edge 10mm

Date: 10/13/2022

Electronics: DAE4 Sn549

Medium: head 3600 MHz

 Medium parameters used: $f = 4840$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE3600-TDD48 3625 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 – SN7464 ConvF(7.20,7.20,7.20)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.207 W/kg

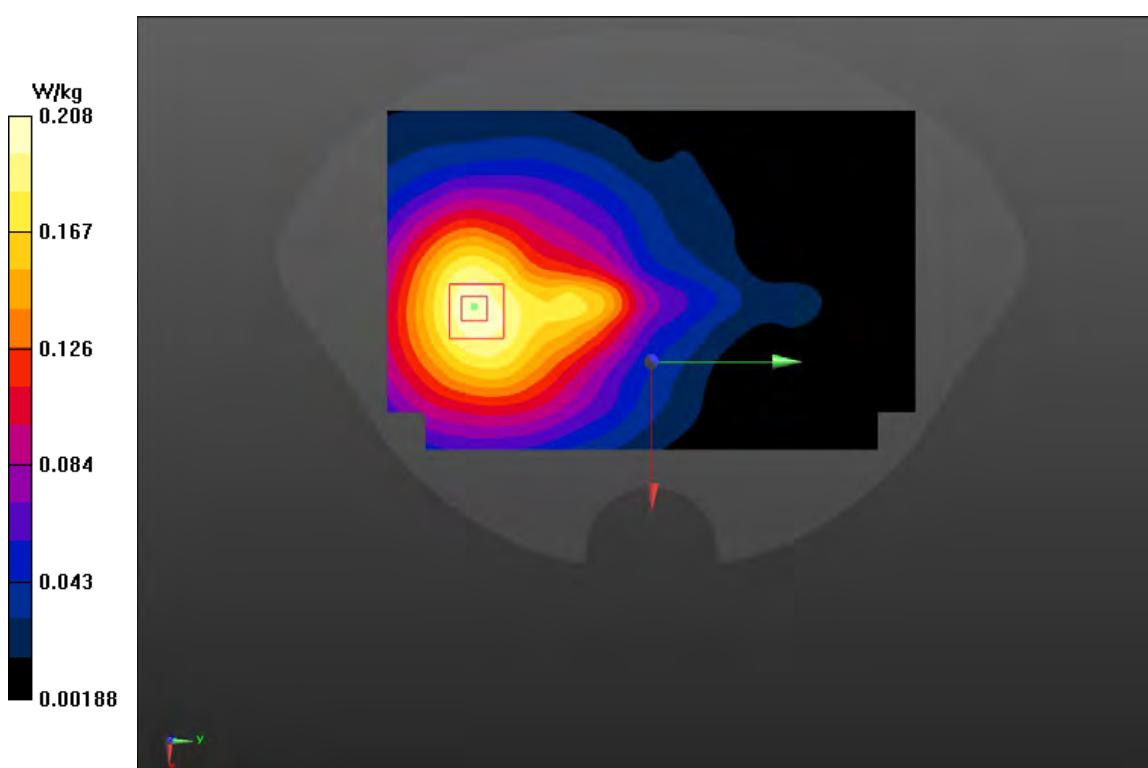
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.785 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.269 W/kg

SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.192 W/kg

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


Fig A.30

LTE1700-FDD66_CH41102 1RB-Middle Right Cheek

Date: 10/8/2022

Electronics: DAE4 Sn549

Medium: head 1750 MHz

Medium parameters used: $f = 4840$ MHz; $\sigma = 4.316$ mho/m; $\epsilon_r = 36.97$; $\rho = 1000$ kg/m 3

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.341 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.221 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.347 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.142 W/kg

Maximum value of SAR (measured) = 0.241 W/kg

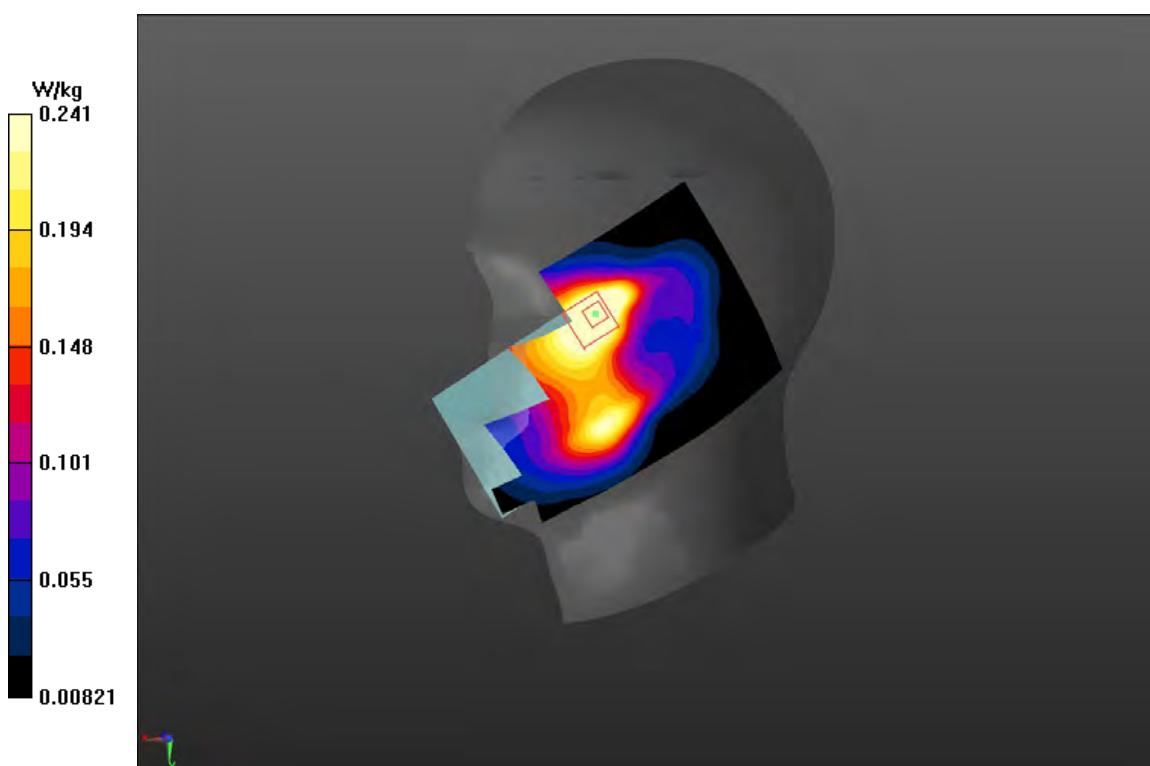


Fig A.31

LTE1700-FDD66_CH41111 1RB-Middle Left Edge 13mm

Date: 10/8/2022

Electronics: DAE4 Sn549

Medium: head 1750 MHz

 Medium parameters used: $f = 4840$ MHz; $\sigma = 4.328$ mho/m; $\epsilon_r = 36.24$; $\rho = 1000$ kg/m 3

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.797 W/kg

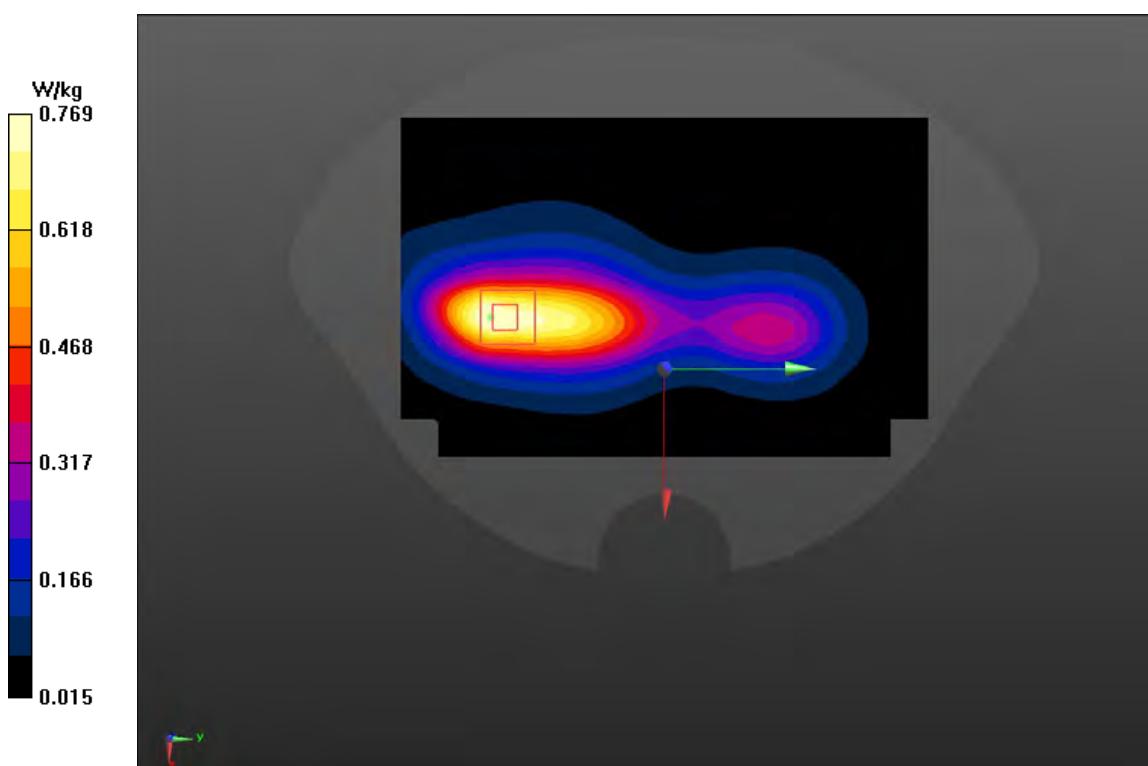
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.02 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.906 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.309 W/kg

Maximum value of SAR (measured) = 0.769 W/kg


Fig A.32

LTE1700-FDD66_CH41103 1RB-Middle Right Tilt

Date: 10/8/2022

Electronics: DAE4 Sn549

Medium: head 1750 MHz

 Medium parameters used: $f = 4840$ MHz; $\sigma = 4.316$ mho/m; $\epsilon_r = 36.97$; $\rho = 1000$ kg/m 3

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.939 W/kg

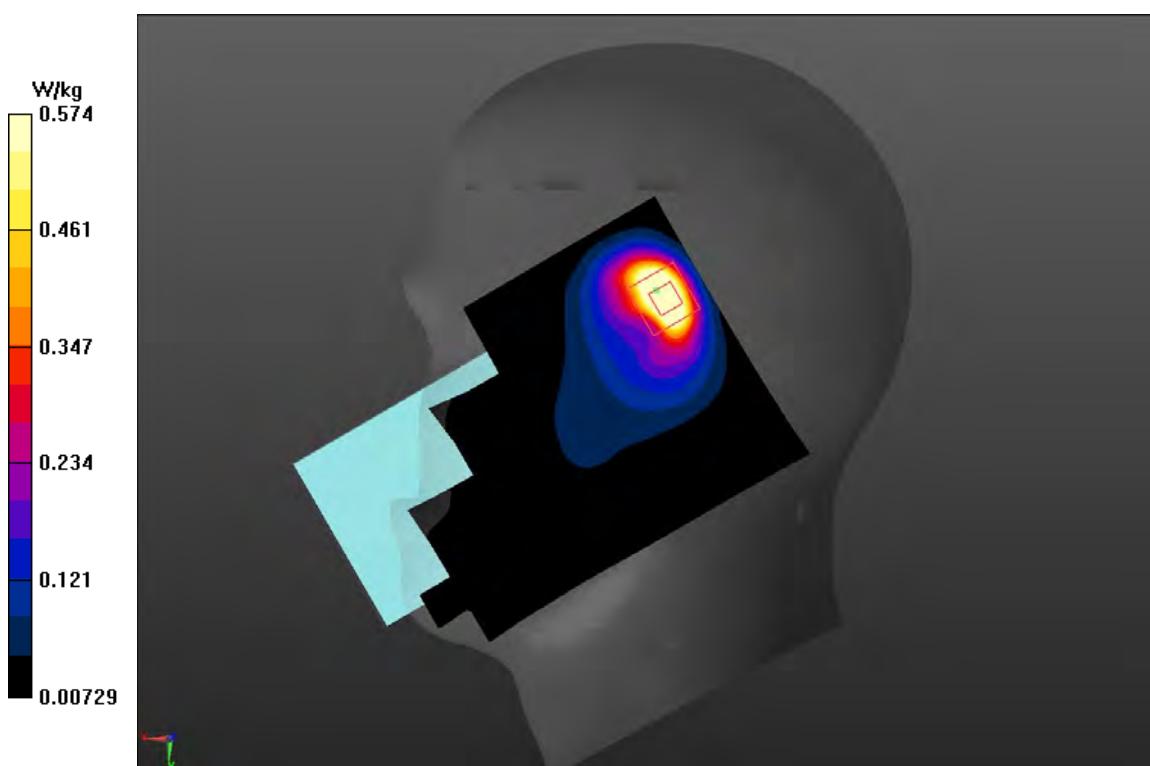
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.61 V/m; Power Drift = -0.22 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.24 W/kg

Maximum value of SAR (measured) = 0.574 W/kg


Fig A.33

LTE1700-FDD66_CH41122 50RB-Middle Top Edge 10mm

Date: 10/8/2022

Electronics: DAE4 Sn549

Medium: head 1750 MHz

 Medium parameters used: $f = 4840$ MHz; $\sigma = 4.328$ mho/m; $\epsilon_r = 36.24$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE1700-FDD66 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.64,8.64,8.64)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.726 W/kg

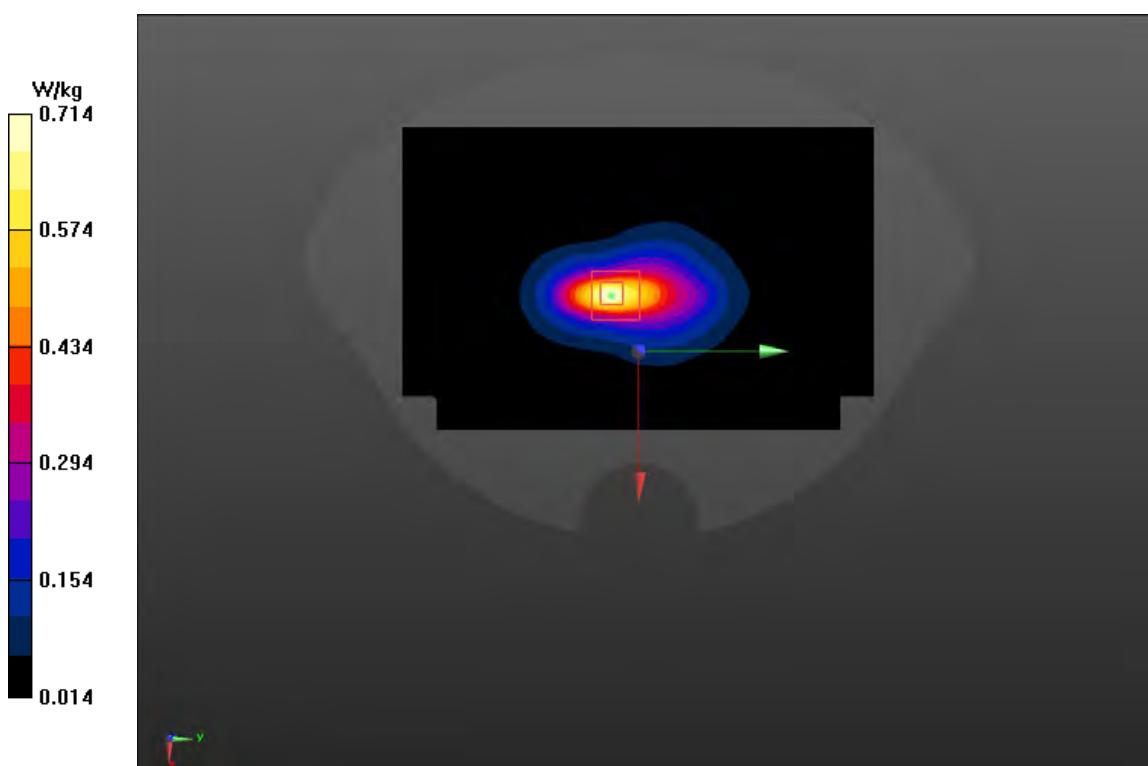
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.32 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.847 W/kg

SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.242 W/kg

Maximum value of SAR (measured) = 0.714 W/kg


Fig A.34

LTE700-FDD71_CH133222 1RB-Low Right Cheek

Date: 10/5/2022

Electronics: DAE4 Sn549

Medium: head 750 MHz

Medium parameters used: $f = 4840$ MHz; $\sigma = 4.766$ mho/m; $\epsilon_r = 36.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE700-FDD71 673 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.314 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.838 V/m; Power Drift = 0.27 dB

Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.195 W/kg

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

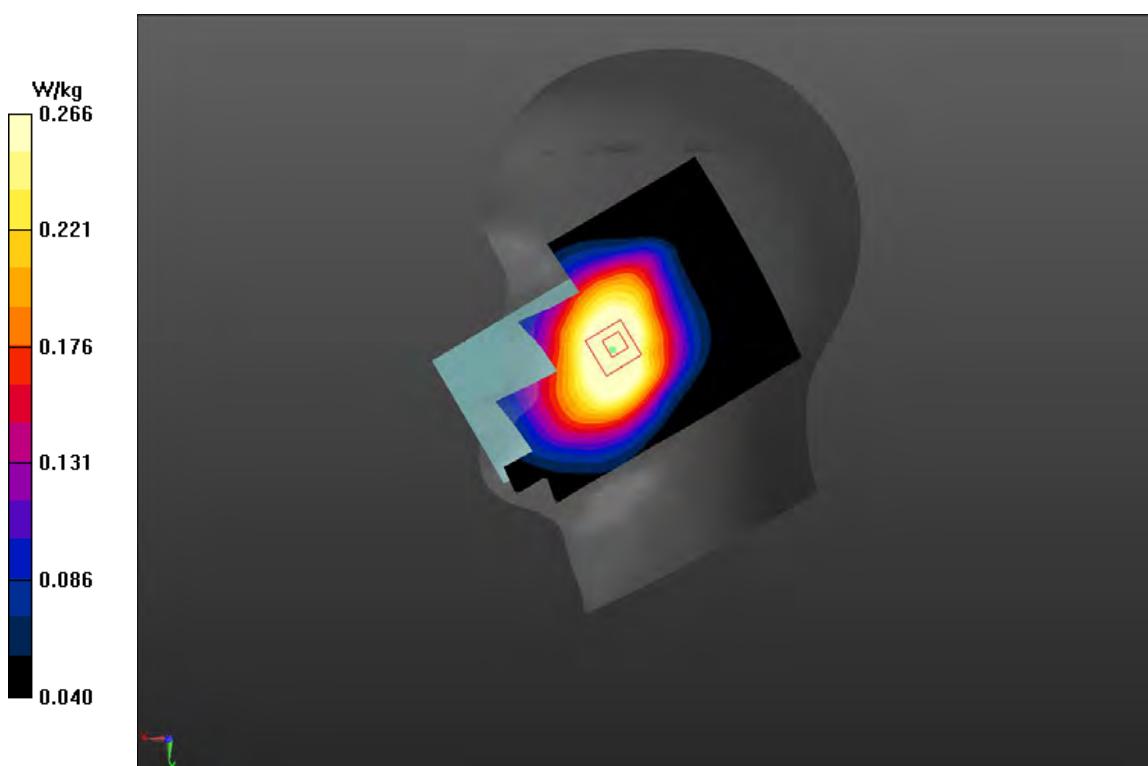


Fig A.35

LTE700-FDD71_CH133222 1RB-Low Rear 10mm

Date: 10/5/2022

Electronics: DAE4 Sn549

Medium: head 750 MHz

 Medium parameters used: $f = 4840$ MHz; $\sigma = 4.778$ mho/m; $\epsilon_r = 37.66$; $\rho = 1000$ kg/m 3

Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C

Communication System: LTE700-FDD71 673 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.252 W/kg

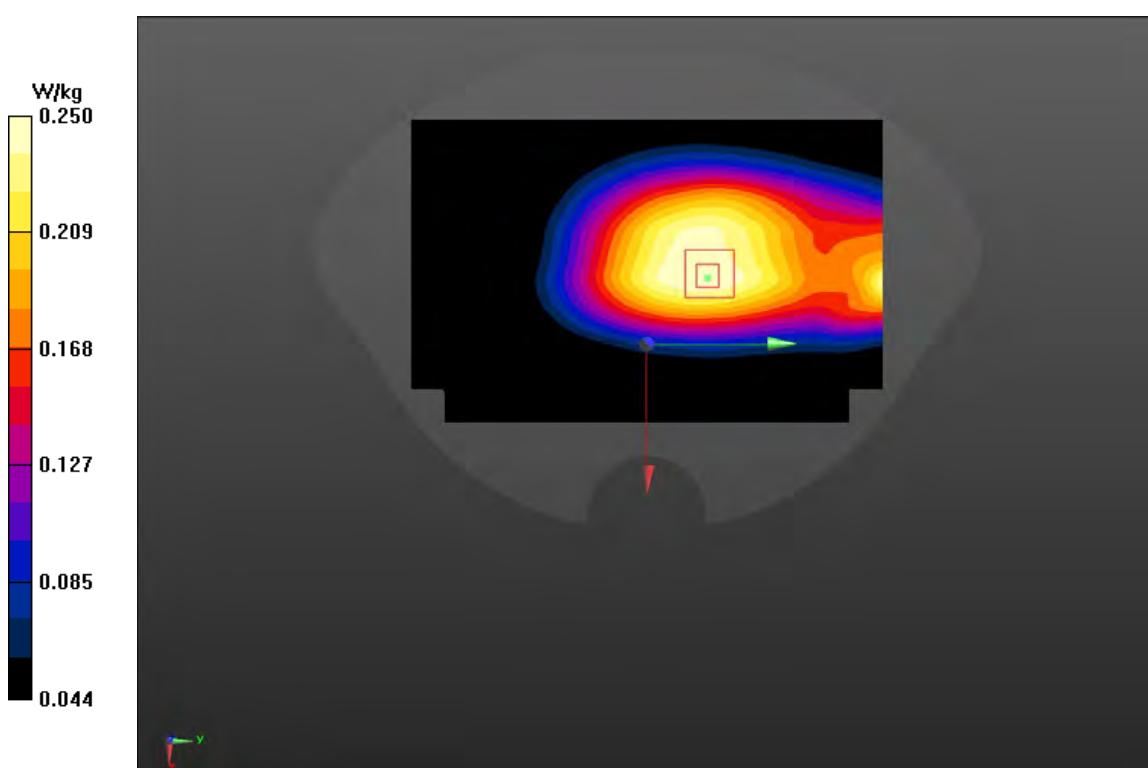
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

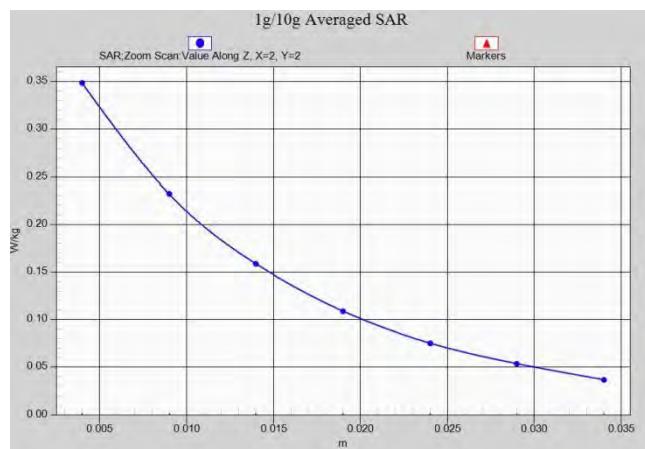
Reference Value = 14.23 V/m; Power Drift = 0.17 dB

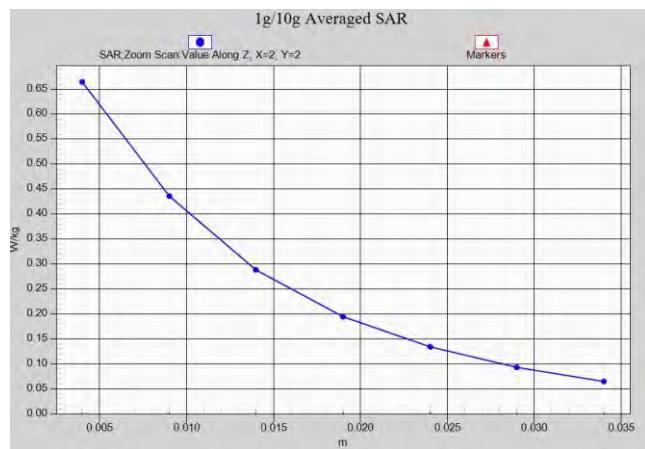
Peak SAR (extrapolated) = 0.269 W/kg

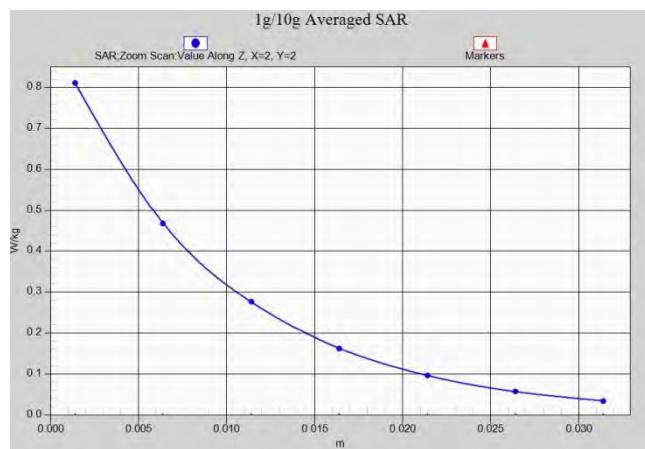
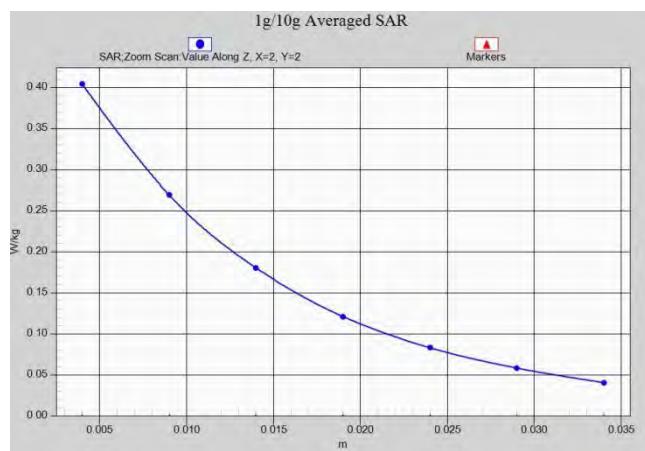
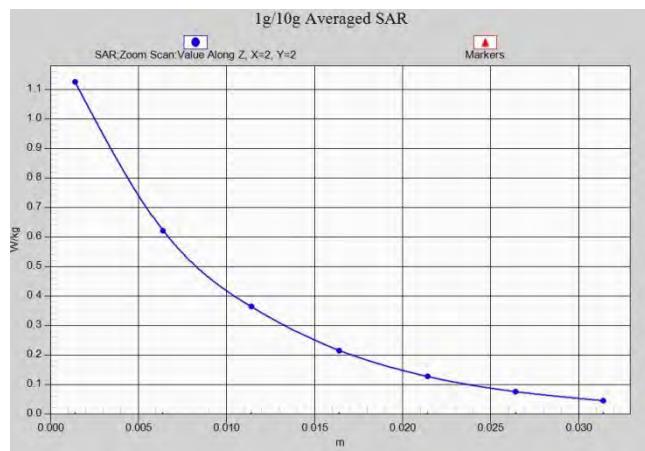
SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.162 W/kg

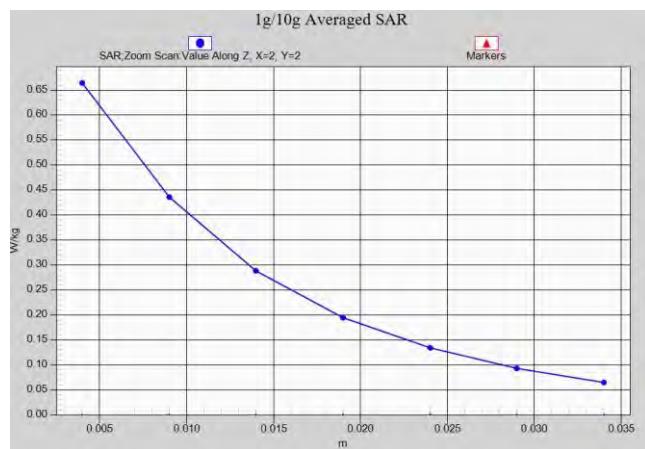
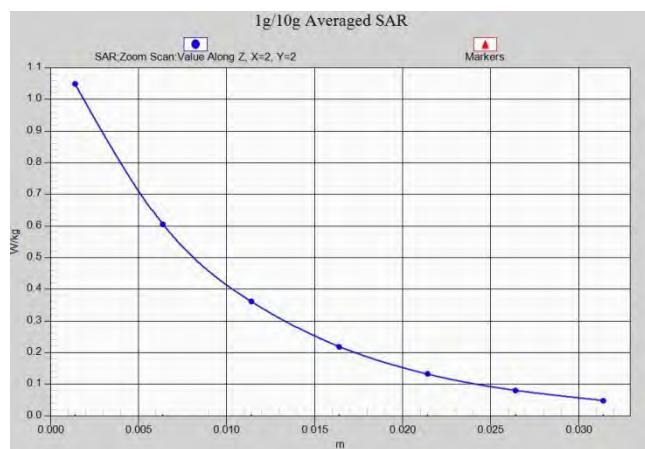
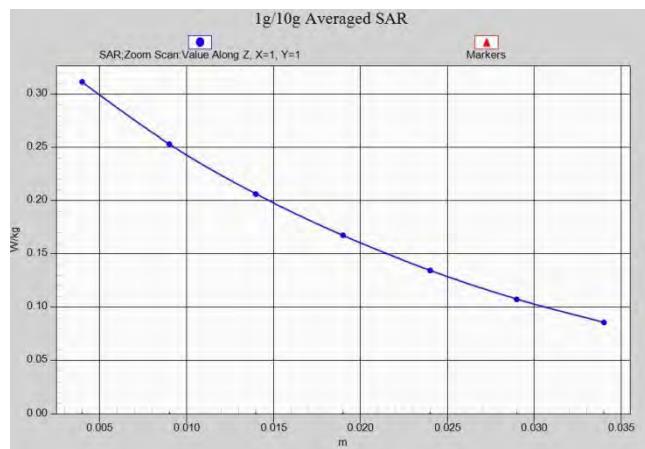
Maximum value of SAR (measured) = 0.250 W/kg

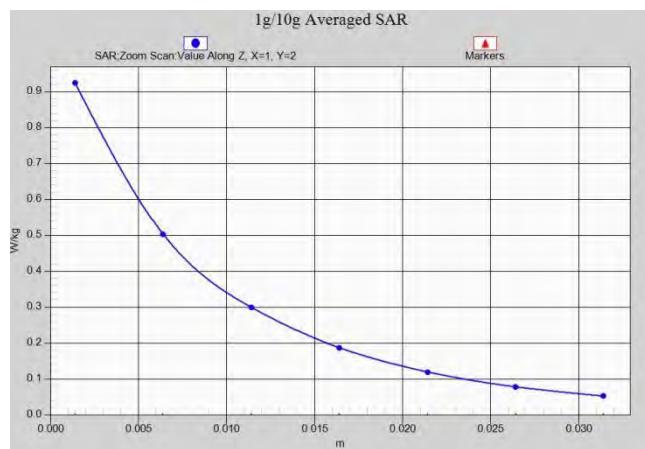
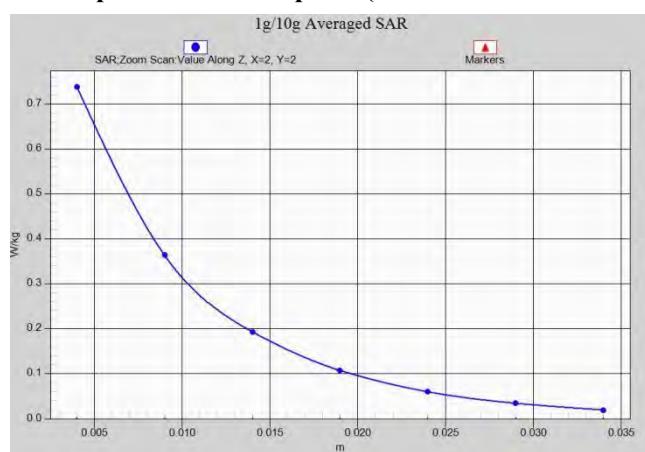
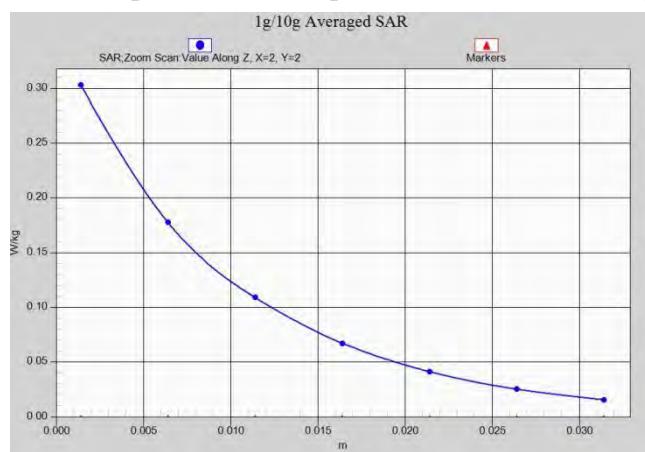

Fig A.36

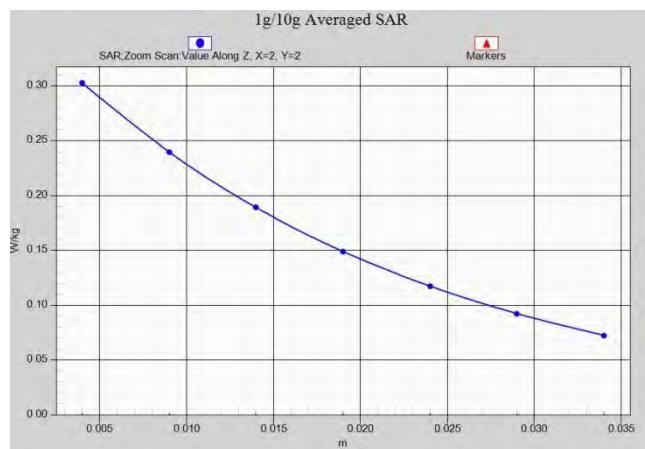
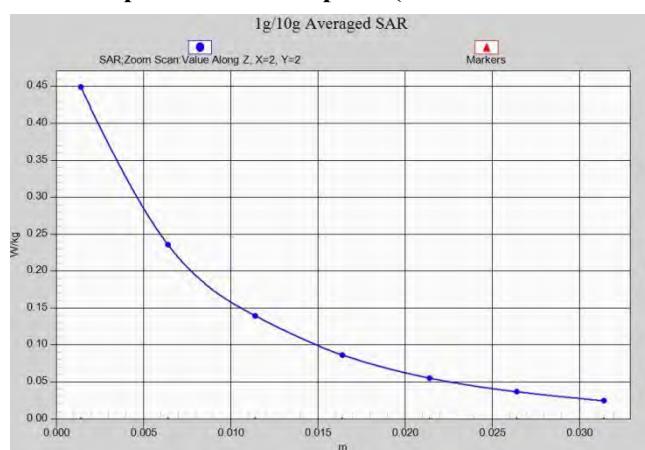
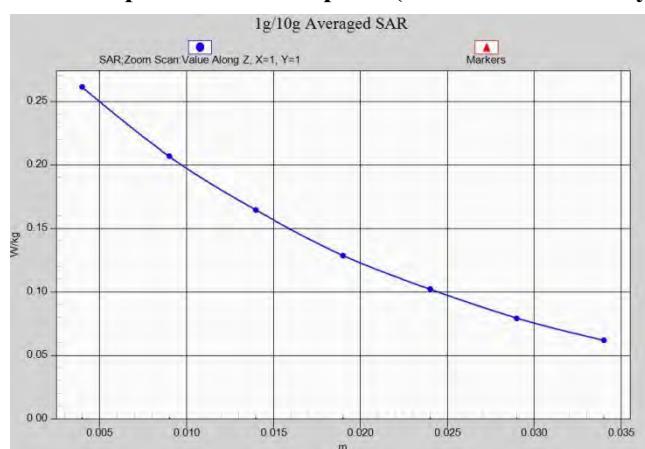

Z-Scan at power reference point (GSM850 ANT0 Head)

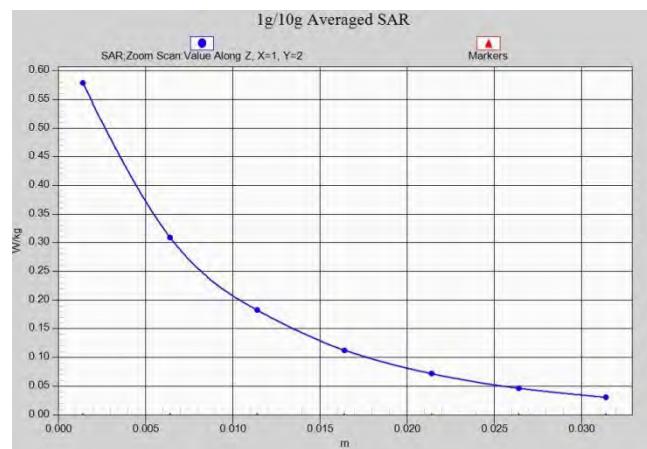
Z-Scan at power reference point (GSM850 ANT0 Body)

Z-Scan at power reference point (GSM1900 ANT1 Head)


Z-Scan at power reference point (GSM1900 ANT1 Body)

Z-Scan at power reference point (WCDMA1900 ANT1 Head)

Z-Scan at power reference point (WCDMA1900 ANT1 Body)

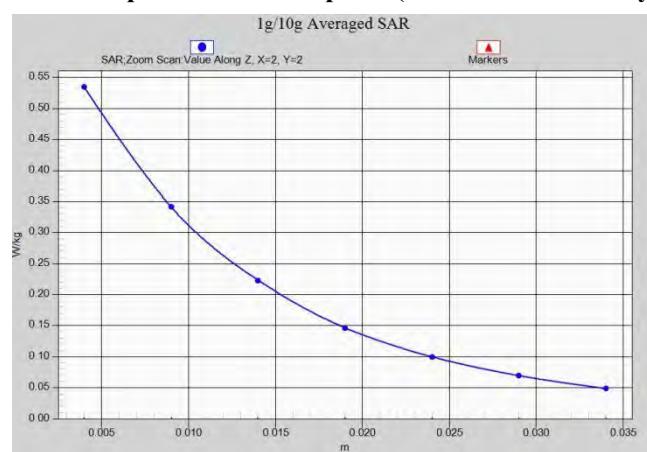

Z-Scan at power reference point (WCDMA1700 ANT1 Head)

Z-Scan at power reference point (WCDMA1700 ANT1 Body)

Z-Scan at power reference point (WCDMA850 ANT0 Head)


Z-Scan at power reference point (WCDMA850 ANT0 Body)

Z-Scan at power reference point (LTEB2 ANT3 Head)

Z-Scan at power reference point (LTEB2 ANT3 Body)

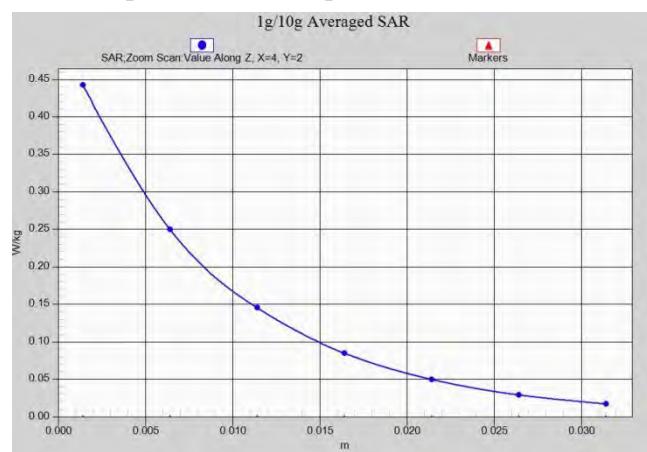

Z-Scan at power reference point (LTEB12 ANT0 Head)

Z-Scan at power reference point (LTEB12 ANT0 Body)

Z-Scan at power reference point (LTEB14 ANT0 Head)



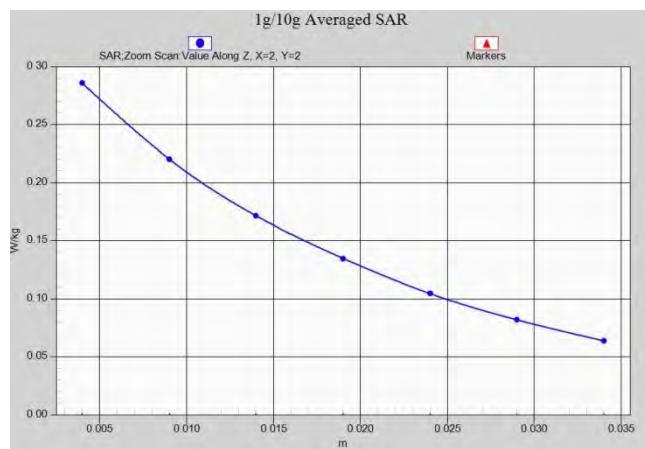
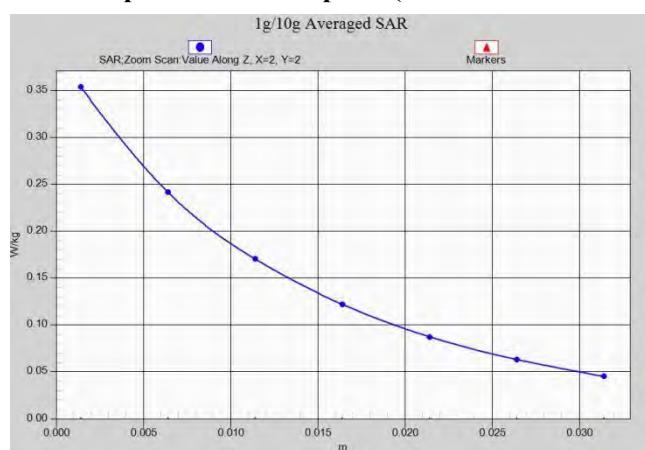
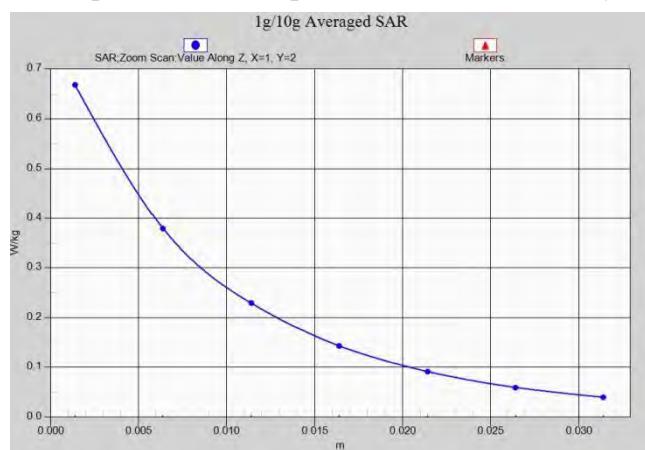
Z-Scan at power reference point (LTEB14 ANT0 Body)

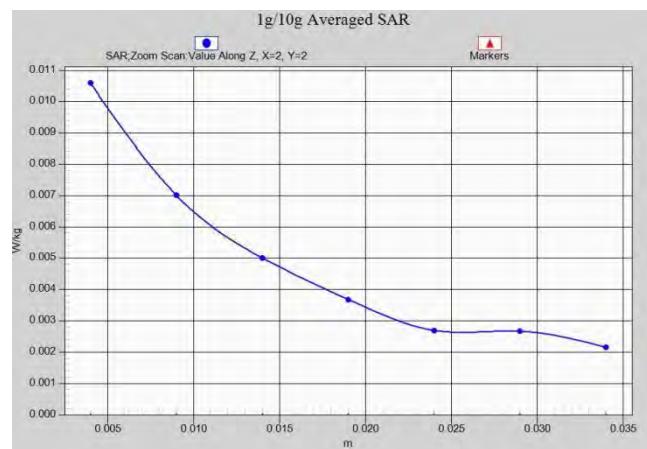
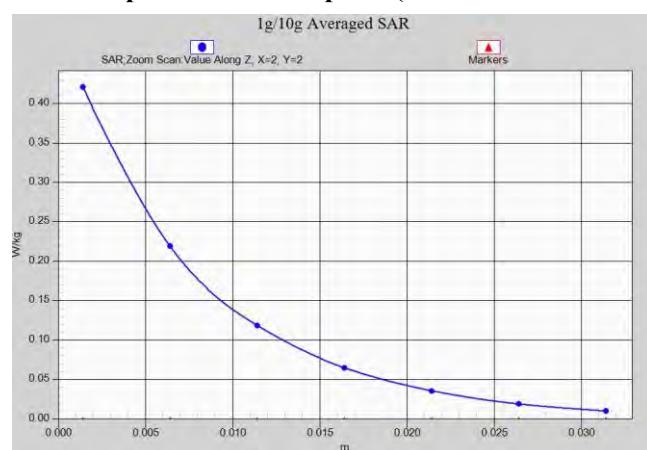
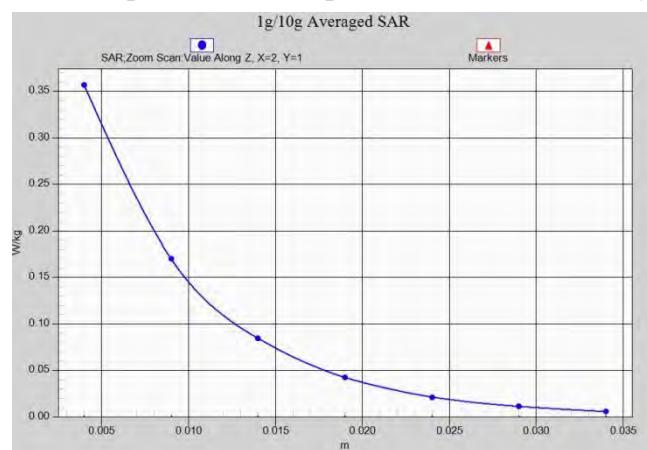


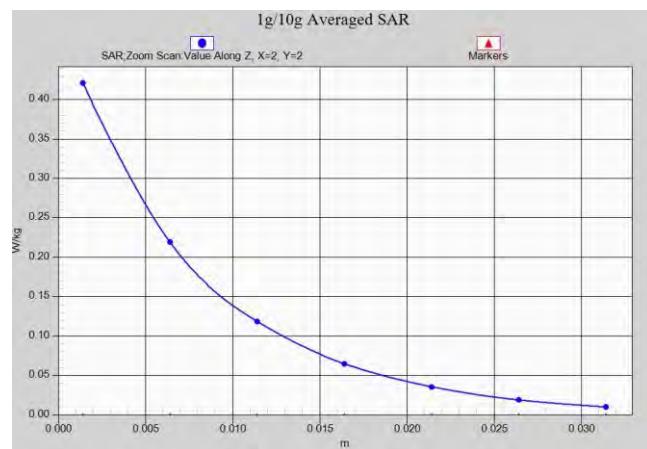
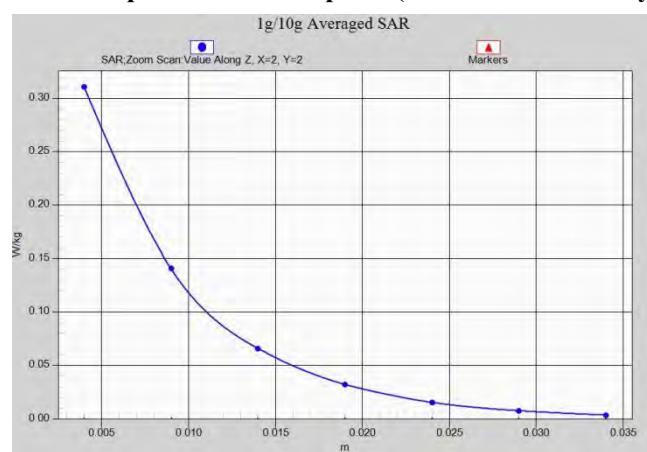
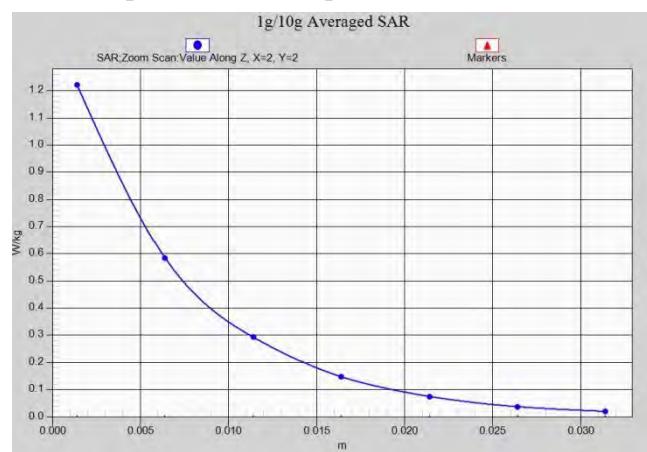
Z-Scan at power reference point (LTEB25 ANT1 Head)

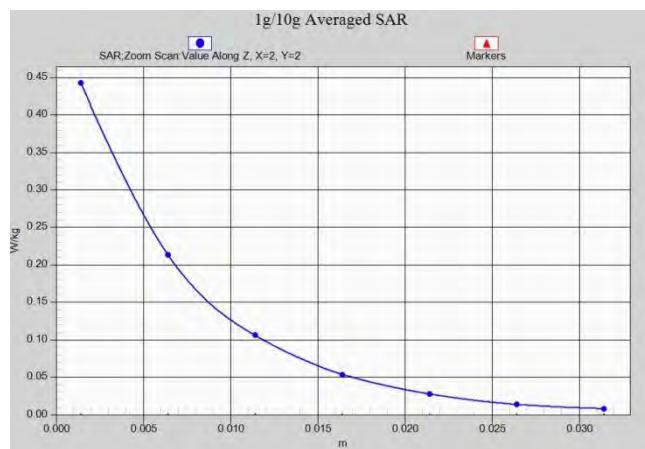


Z-Scan at power reference point (LTEB25 ANT1 Body)

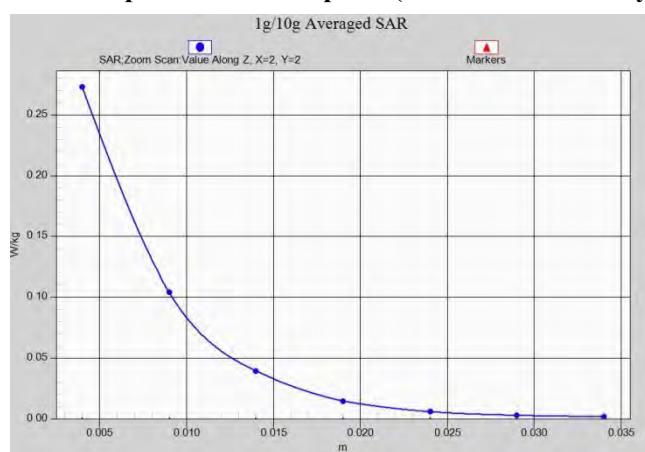

Z-Scan at power reference point (LTEB26 ANT0 Head)

Z-Scan at power reference point (LTEB26 ANT0 Body Rear)

Z-Scan at power reference point (LTEB26 ANT0 Body Right)


Z-Scan at power reference point (LTEB30 ANT3 Head)

Z-Scan at power reference point (LTEB30 ANT3 Body)

Z-Scan at power reference point (LTEB30 ANT0 Head)

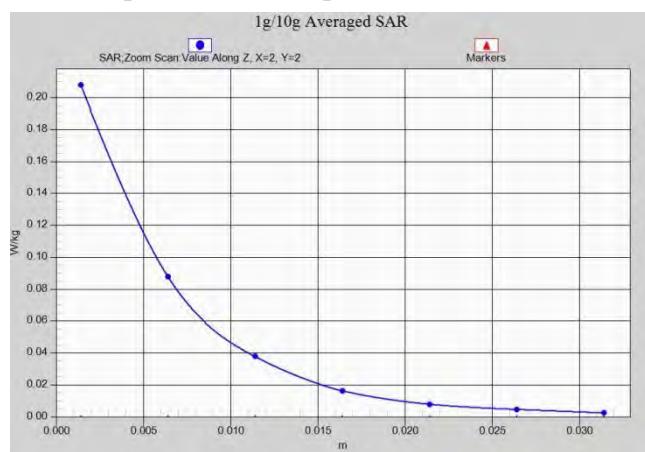

Z-Scan at power reference point (LTEB30 ANT0 Body)

Z-Scan at power reference point (LTEB41 ANT3 Head)

Z-Scan at power reference point (LTEB41 ANT3 Body)



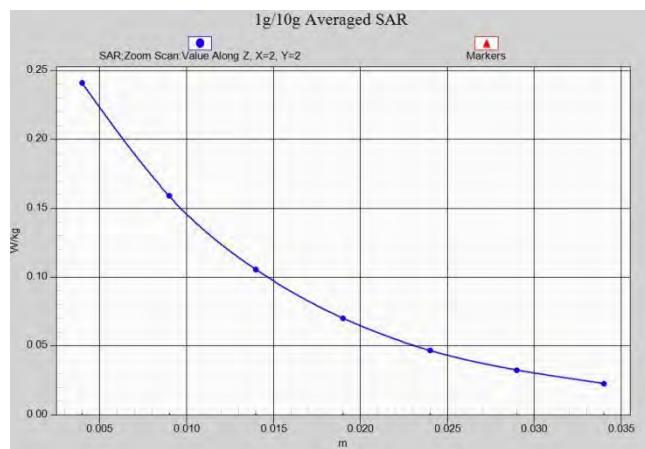
Z-Scan at power reference point (LTEB41 ANT3 Body)



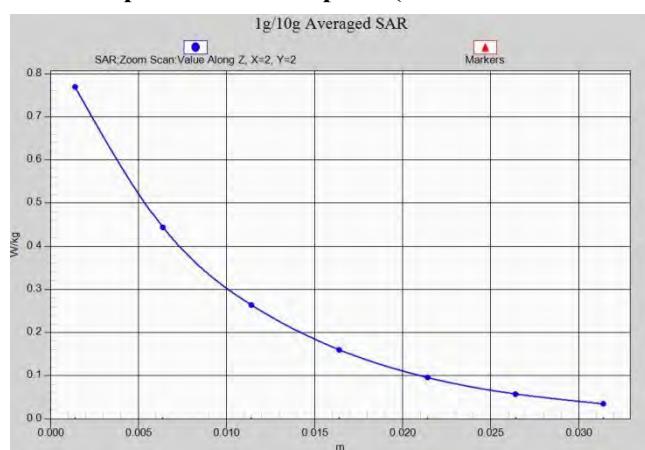
Z-Scan at power reference point (LTEB48 ANT4 Head)



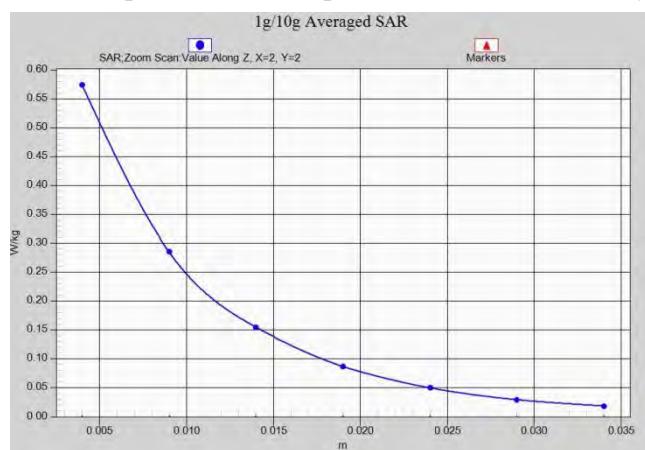
Z-Scan at power reference point (LTEB48 ANT4 Body)



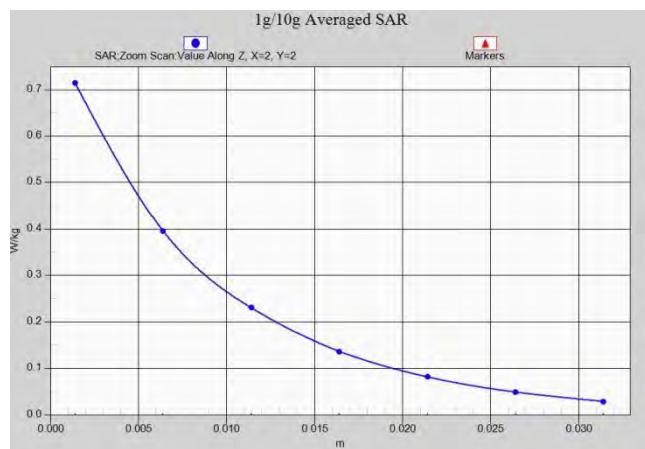
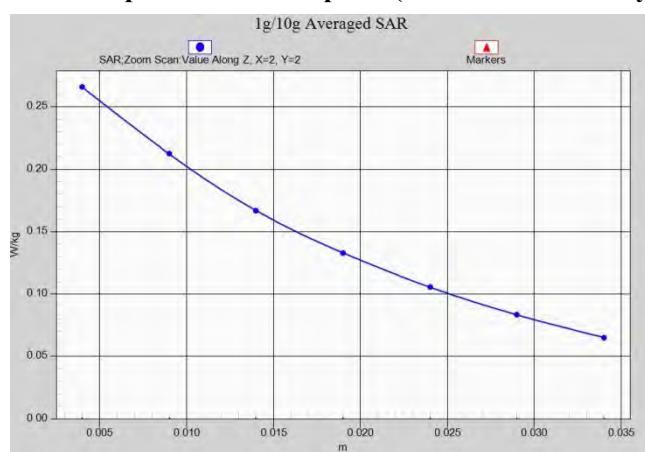
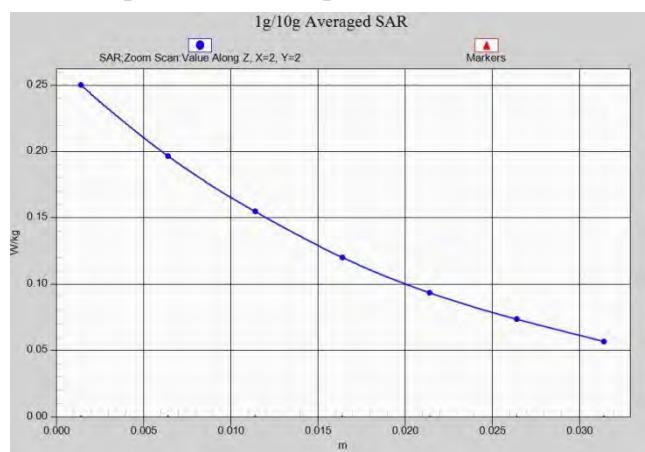
Z-Scan at power reference point (LTEB66 ANT1 Head)



Z-Scan at power reference point (LTEB66 ANT1 Body)



Z-Scan at power reference point (LTEB66 ANT3 Head)


Z-Scan at power reference point (LTEB66 ANT3 Body)

Z-Scan at power reference point (LTEB71 ANT0 Head)

Z-Scan at power reference point (LTEB71 ANT0 Body)

N2 Head ANT1

Date: 9/29/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1852.5$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 41.68$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N2 (0) Frequency: 1852.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 7.949 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.513 W/kg

SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.453 W/kg

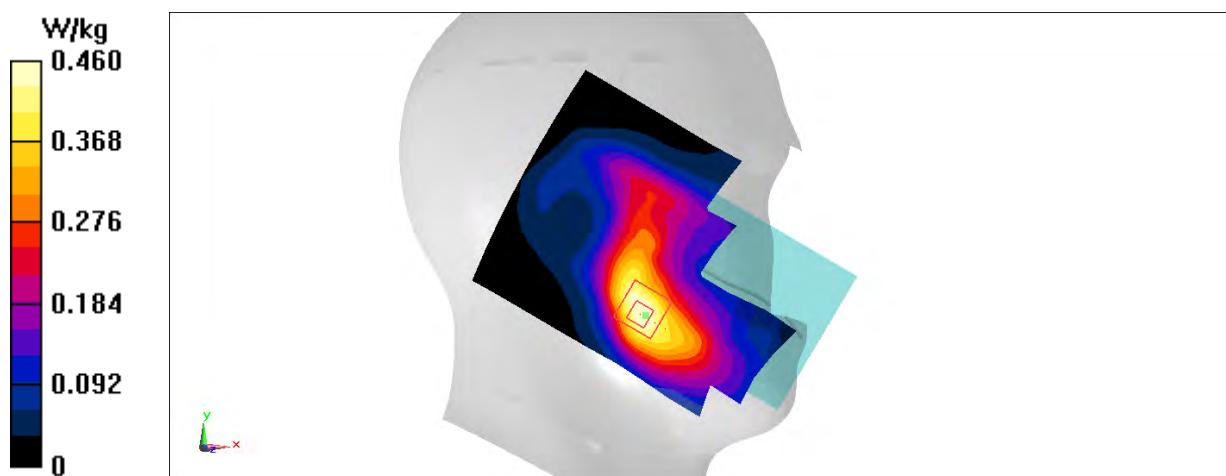


FIG A.37

N2 Body ANT1

Date: 9/29/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1852.5$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 41.68$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N2 (0) Frequency: 1852.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (91x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.918 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.41 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.333 W/kg

Maximum value of SAR (measured) = 0.872 W/kg

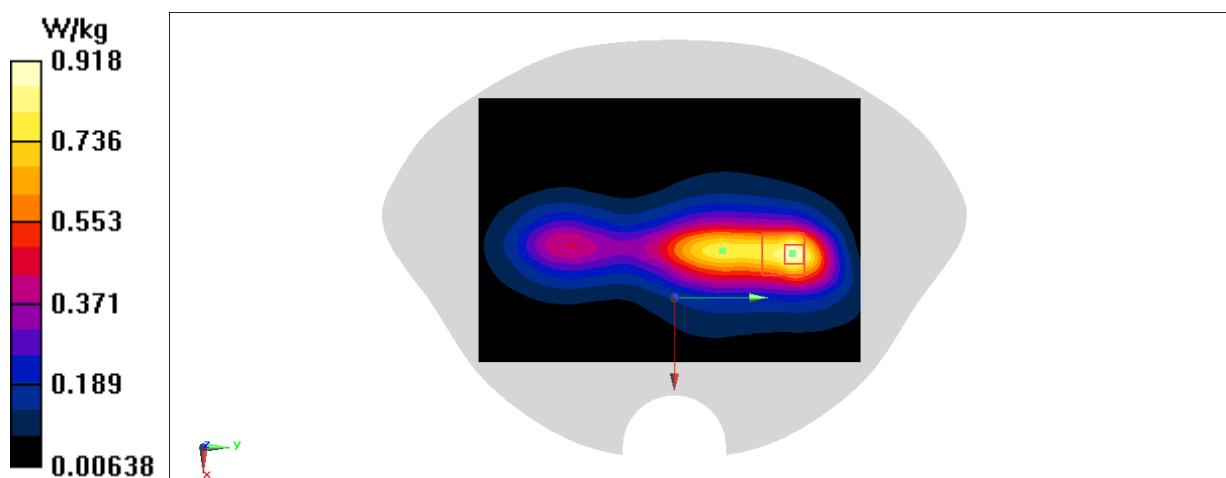


FIG A.38

N2 Head ANT3

Date: 9/29/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 41.62$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N2 (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 14.57 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.311 W/kg

Maximum value of SAR (measured) = 0.997 W/kg

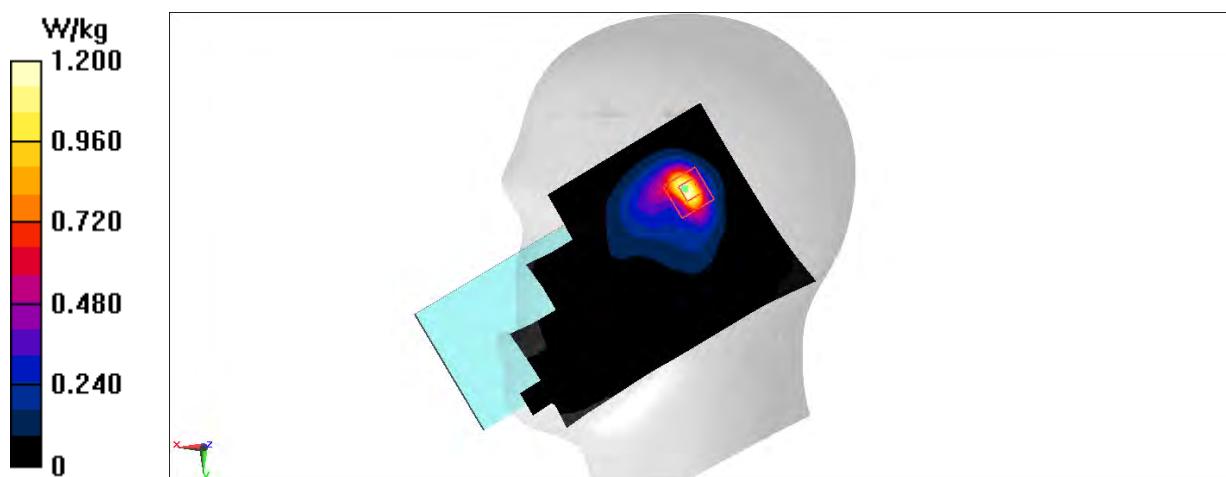


FIG A.39

N2 Body ANT3

Date: 9/29/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1907.5$ MHz; $\sigma = 1.461$ S/m; $\epsilon_r = 42.56$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N2 (0) Frequency: 1907.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.874 W/kg

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

Reference Value = 16.68 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.302 W/kg

Maximum value of SAR (measured) = 0.917 W/kg

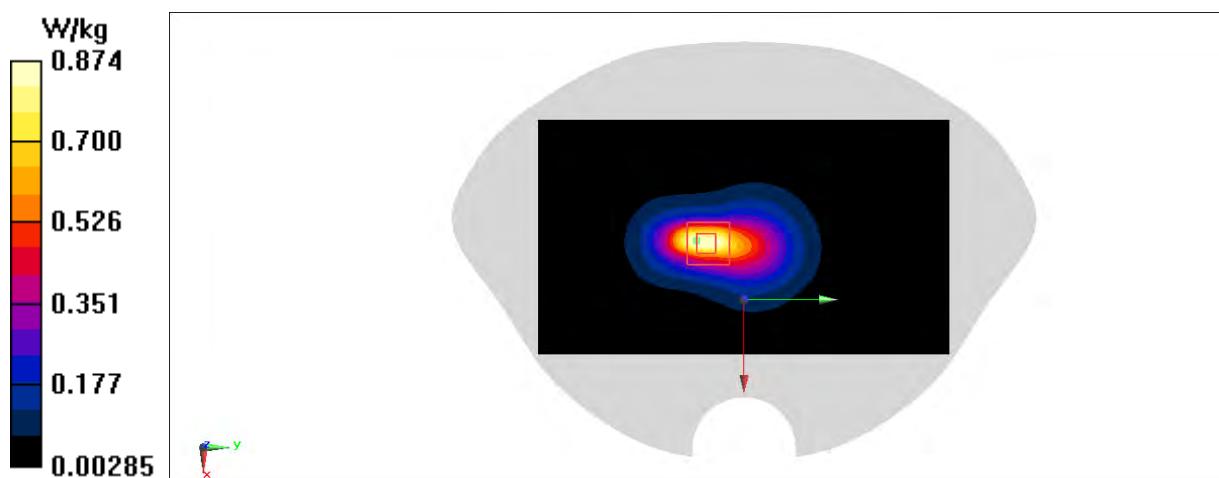


FIG A.40

N5 Head ANTO

Date: 9/30/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N5 (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(10.74, 10.74, 10.74)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.228 W/kg

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

Reference Value = 7.231 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.239 W/kg

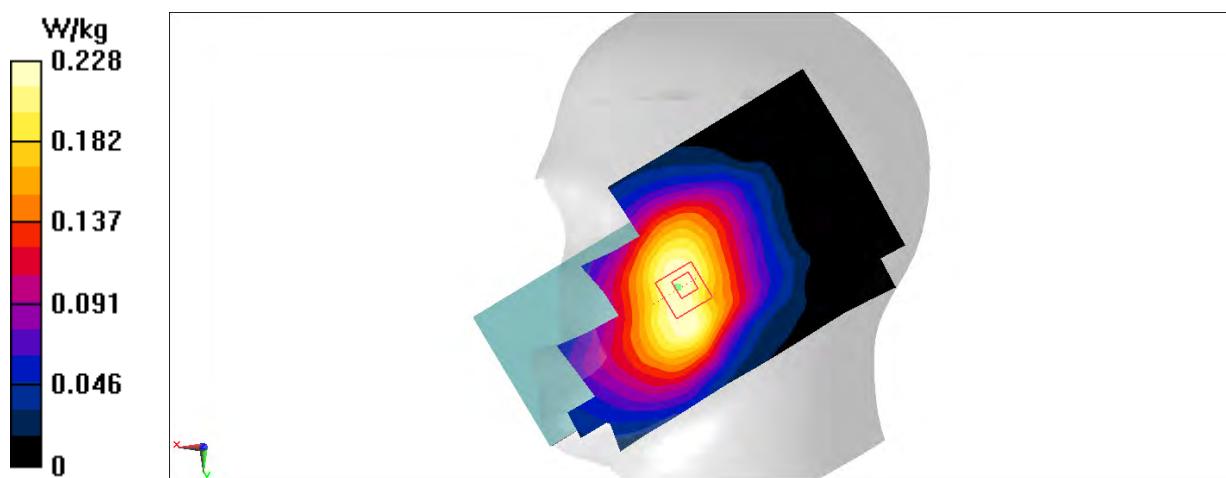


FIG A.41

N5 Body ANT0

Date: 9/30/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 846.5$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 42.86$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N5 (0) Frequency: 846.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(10.74, 10.74, 10.74)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.754 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.36 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.969 W/kg

SAR(1 g) = 0.517 W/kg; SAR(10 g) = 0.300 W/kg

Maximum value of SAR (measured) = 0.782 W/kg

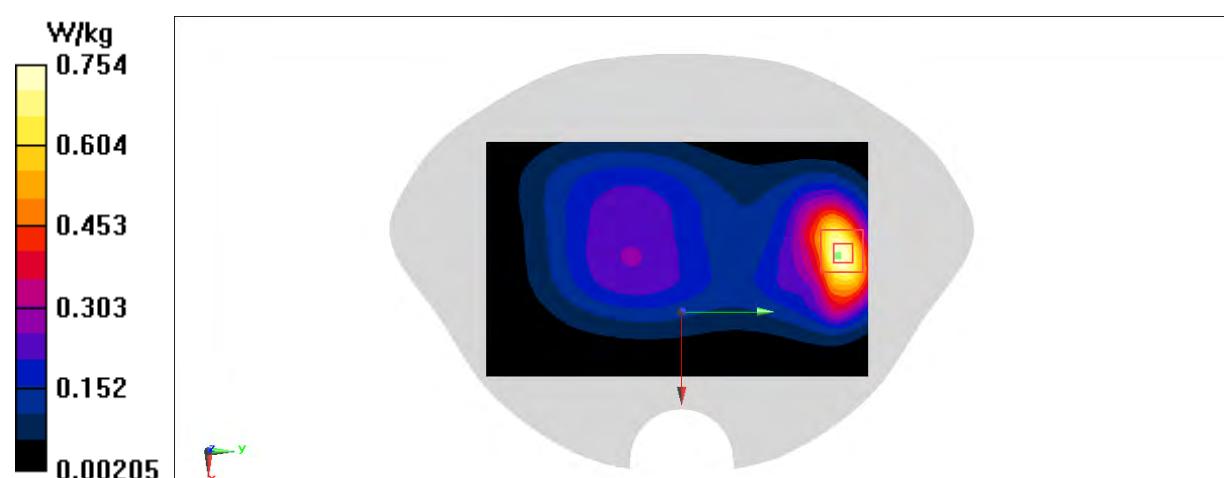


FIG A.42

N25 Head ANT1

Date: 9/28/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1852.5$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 41.68$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N25 (0) Frequency: 1852.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.474 W/kg

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

Reference Value = 7.777 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.540 W/kg

SAR(1 g) = 0.355 W/kg; SAR(10 g) = 0.230 W/kg

Maximum value of SAR (measured) = 0.476 W/kg

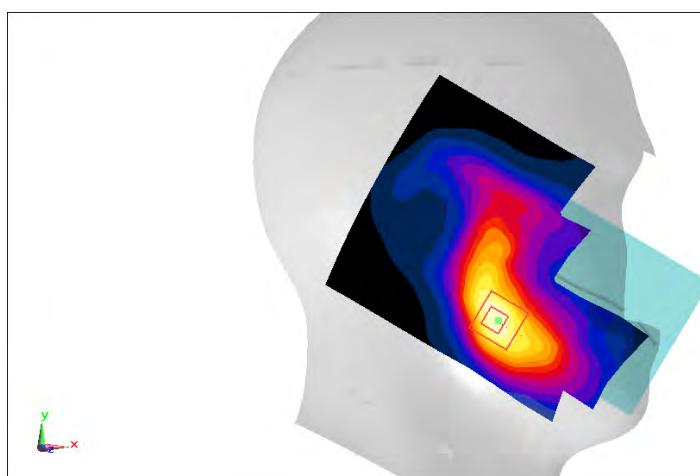
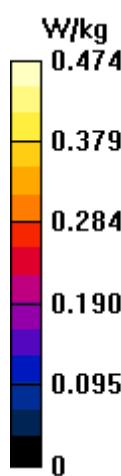


FIG A.43

N25 Body ANT1

Date: 9/28/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 41.617$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N25 (0) Frequency: 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

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

Reference Value = 14.64 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.384 W/kg

Maximum value of SAR (measured) = 0.948 W/kg

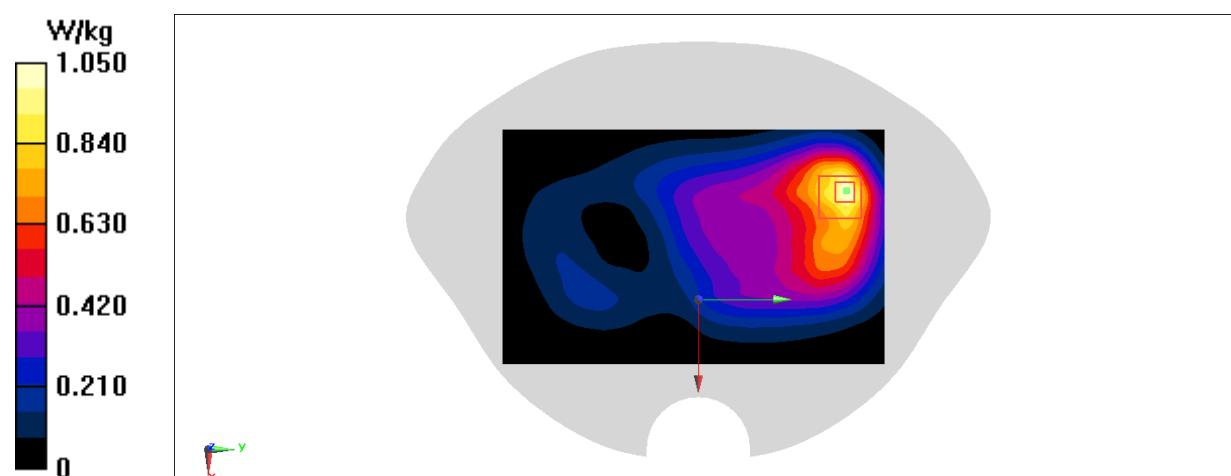


FIG A.44

N25 Head ANT3

Date: 9/28/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1912.5$ MHz; $\sigma = 1.467$ S/m; $\epsilon_r = 41.54$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N25 (0) Frequency: 1912.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.880 W/kg

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

Reference Value = 14.41 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.236 W/kg

Maximum value of SAR (measured) = 0.907 W/kg

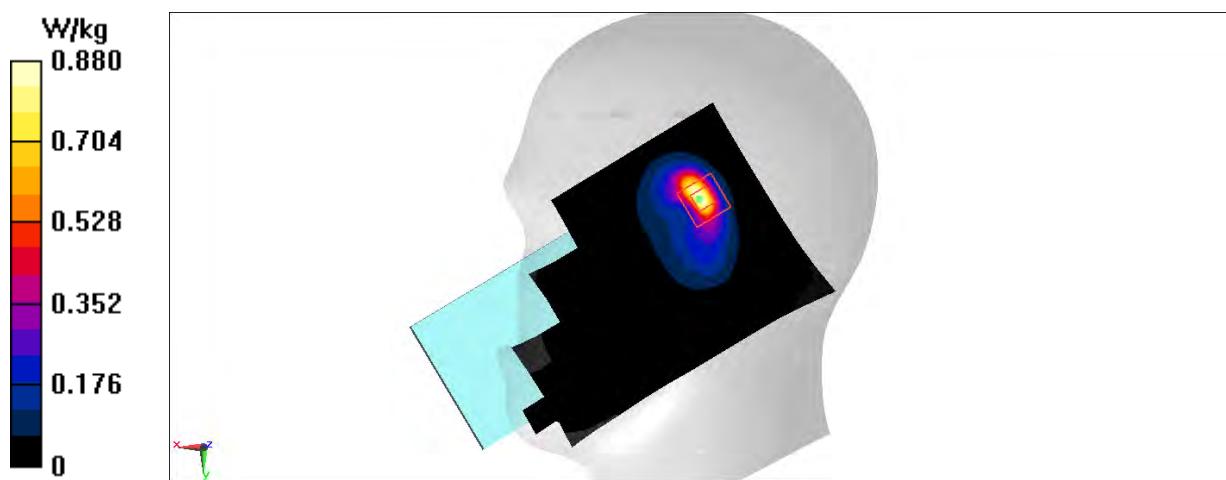


FIG A.45

N25 Body ANT3

Date: 9/28/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1912.5$ MHz; $\sigma = 1.467$ S/m; $\epsilon_r = 41.54$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N25 (0) Frequency: 1912.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.954 W/kg

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

Reference Value = 15.07 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.977 W/kg

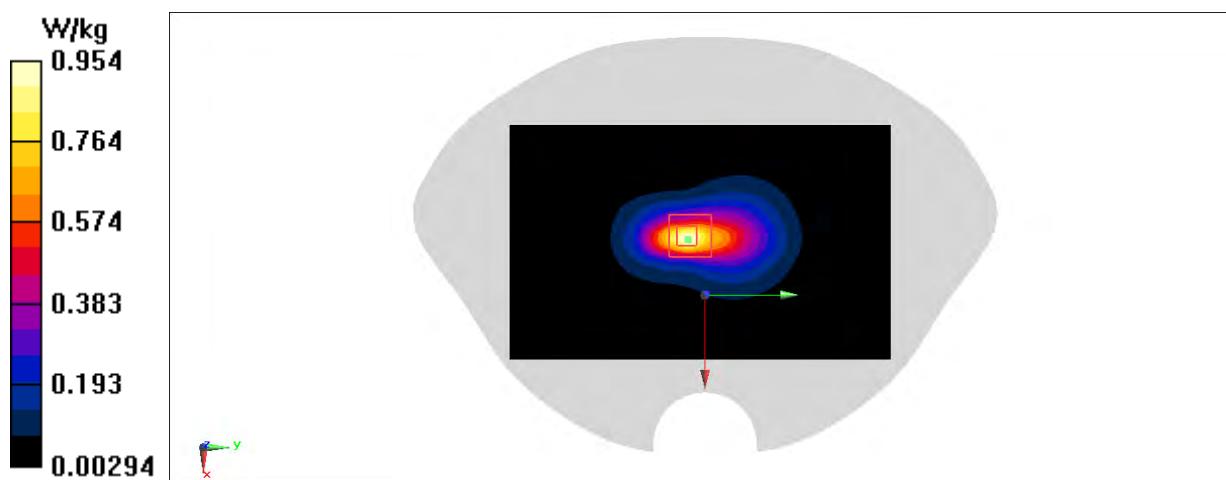


FIG A.46

N26 Head ANTO

Date: 9/30/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 846.5$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 42.86$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N26 (0) Frequency: 846.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(10.74, 10.74, 10.74)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.285 W/kg

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

Reference Value = 3.865 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 0.283 W/kg

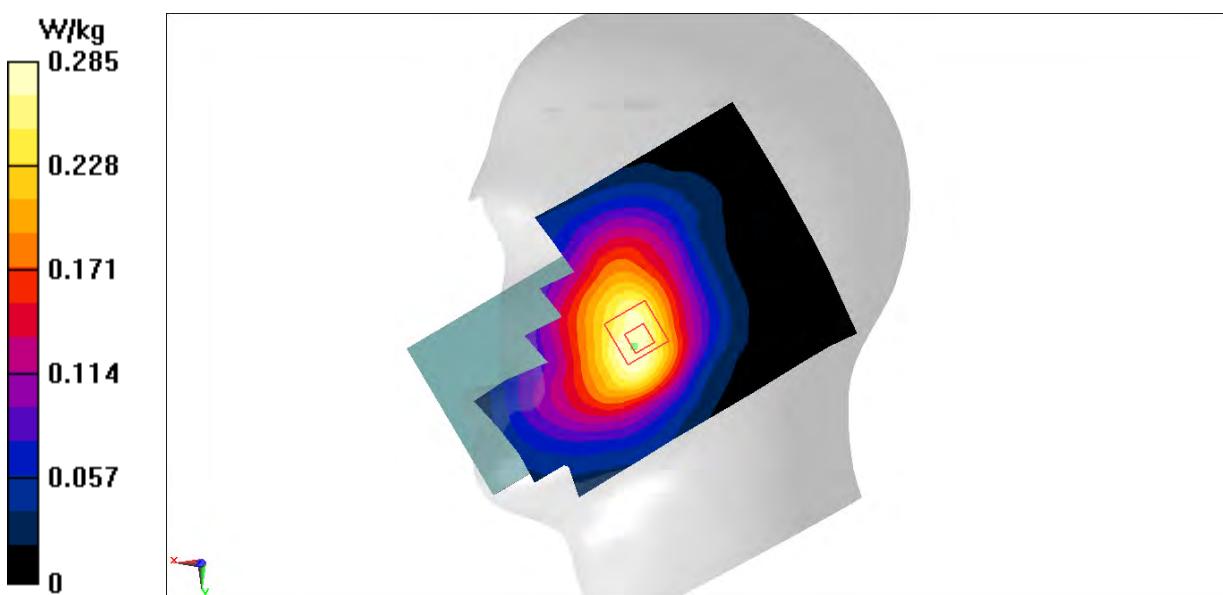


FIG A.47

N26 Body ANT0

Date: 9/30/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 846.5$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 42.86$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N26 (0) Frequency: 846.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(10.74, 10.74, 10.74)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.561 W/kg

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

Reference Value = 17.65 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.233 W/kg

Maximum value of SAR (measured) = 0.562 W/kg

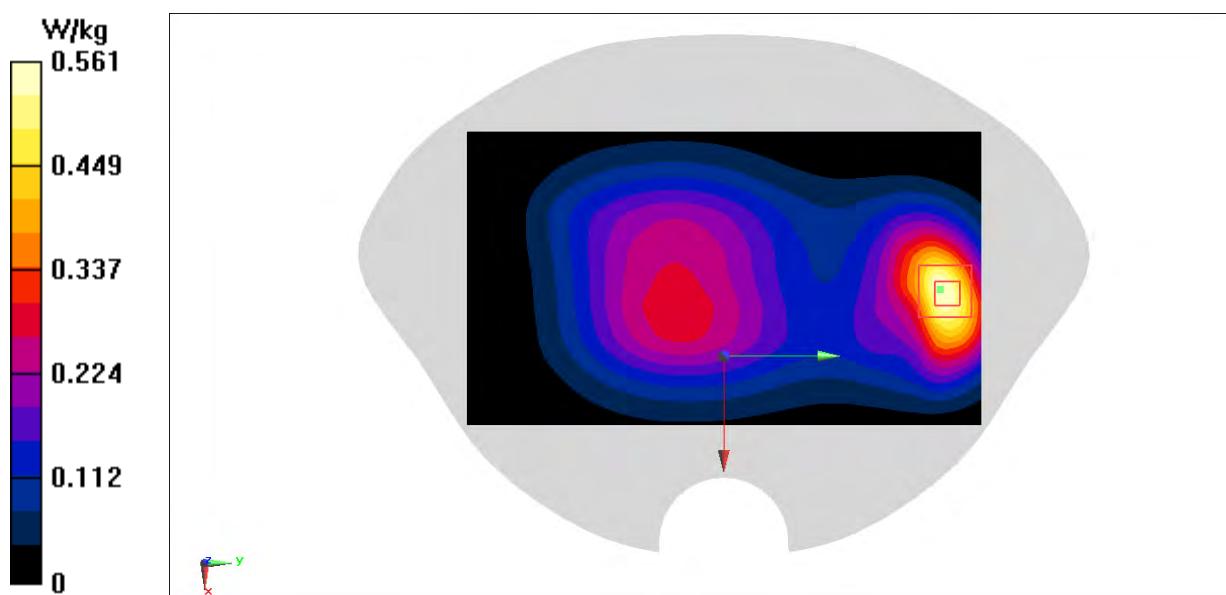


FIG A.48

N30 Head ANT3

Date: 10/10/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.749$ S/m; $\epsilon_r = 41.09$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N30 (0) Frequency: 2310 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.14, 8.14, 8.14)

Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

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

Reference Value = 7.821 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.707 W/kg; SAR(10 g) = 0.321 W/kg

Maximum value of SAR (measured) = 1.17 W/kg

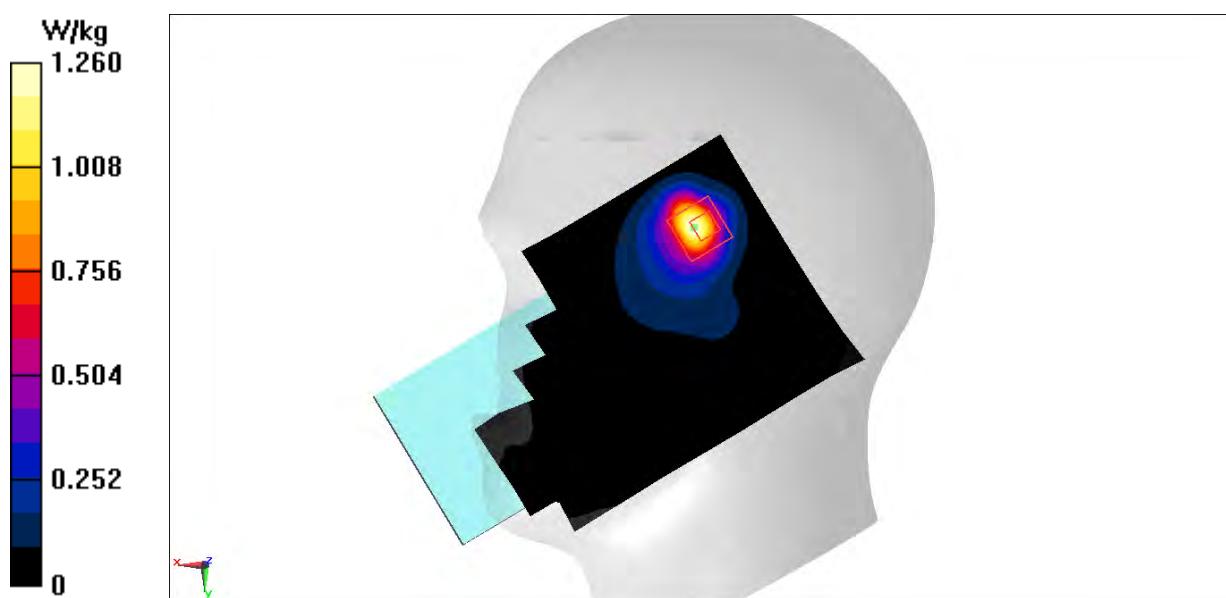


FIG A.49

N30 Body ANT3

Date: 10/10/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2307.5$ MHz; $\sigma = 1.728$ S/m; $\epsilon_r = 40.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N30 (0) Frequency: 2307.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.14, 8.14, 8.14)

Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.949 W/kg

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

Reference Value = 6.149 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.599 W/kg; SAR(10 g) = 0.293 W/kg

Maximum value of SAR (measured) = 0.955 W/kg

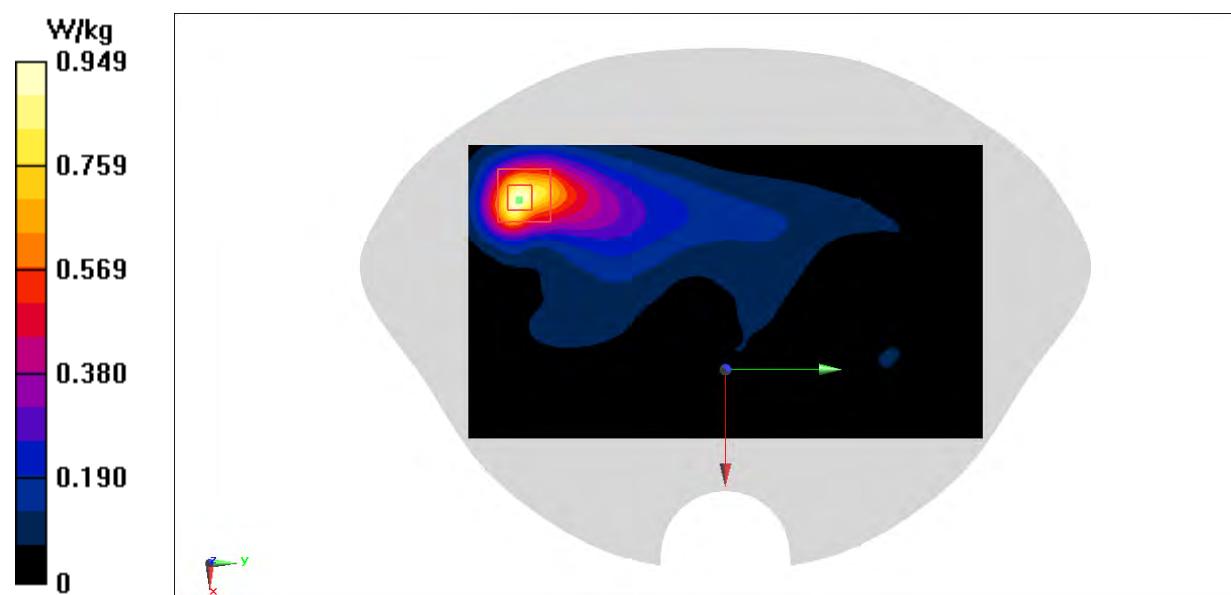


FIG A.50

N30 Body ANT0

Date: 10/10/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2312.5$ MHz; $\sigma = 1.707$ S/m; $\epsilon_r = 40.11$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N30 (0) Frequency: 2312.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.14, 8.14, 8.14)

Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

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

Reference Value = 14.41 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.724 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 1.18 W/kg

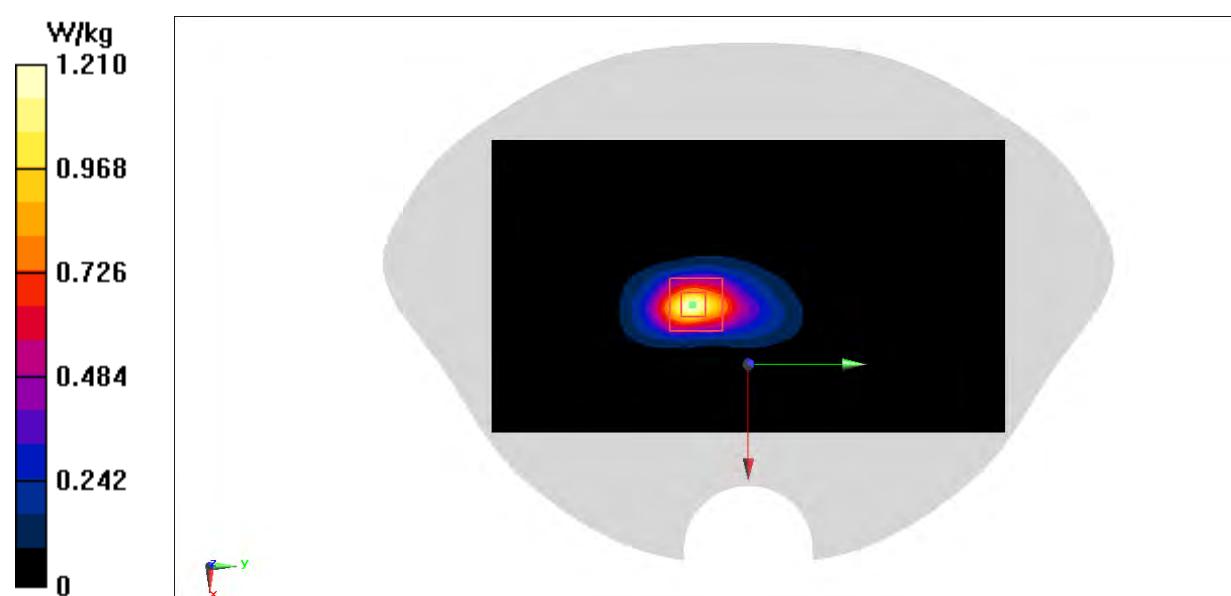


FIG A.51

N41 Head ANT3

Date: 10/19/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2506.02$ MHz; $\sigma = 1.878$ S/m; $\epsilon_r = 39.681$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N41 (0) Frequency: 2506.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.82, 7.82, 7.82)

Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

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

Reference Value = 5.467 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 1.07 W/kg

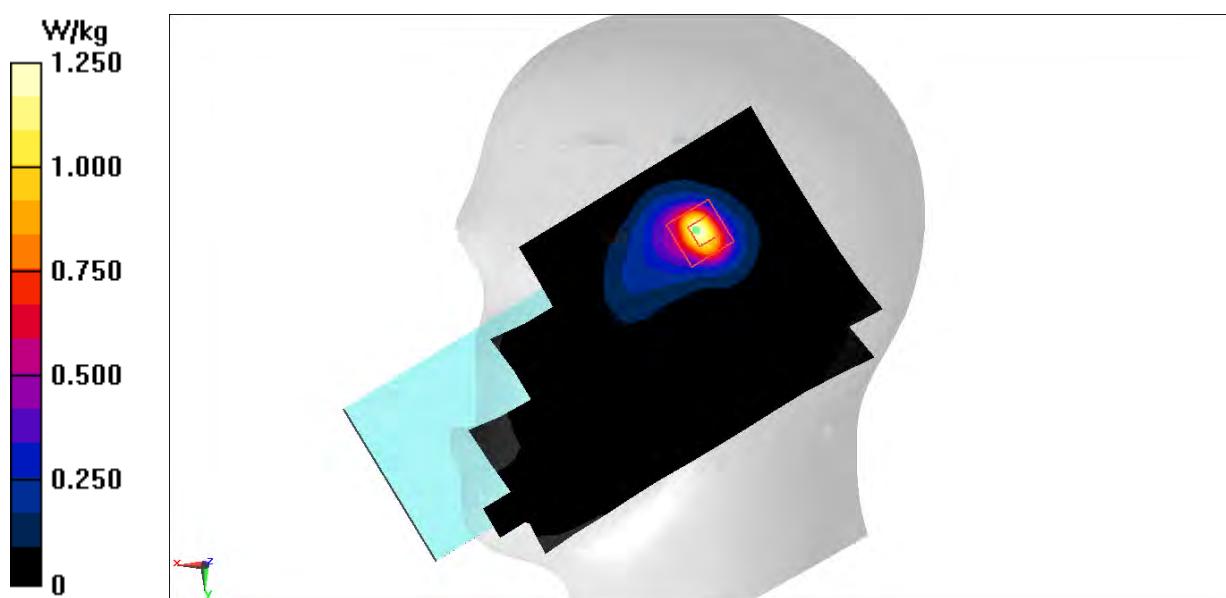


FIG A.52

N41 Body ANT3

Date: 10/19/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2506.02$ MHz; $\sigma = 1.878$ S/m; $\epsilon_r = 39.681$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N41 (0) Frequency: 2506.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.82, 7.82, 7.82)

Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.394 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.756 W/kg; SAR(10 g) = 0.323 W/kg

Maximum value of SAR (measured) = 1.26 W/kg

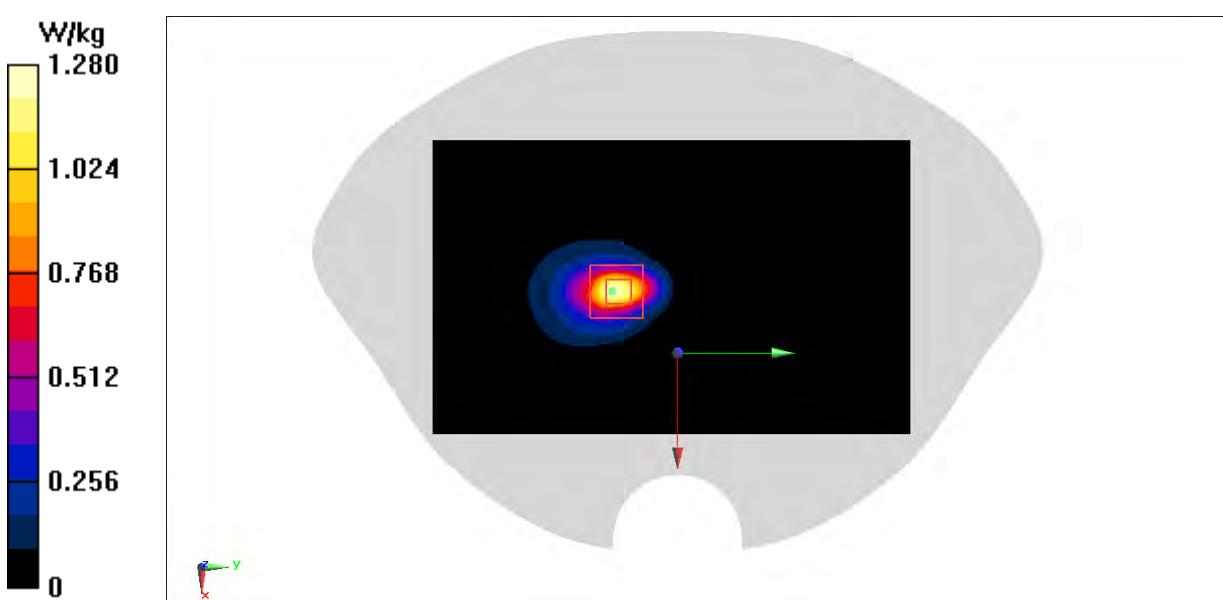


FIG A.53

N66 Head ANT1

Date: 10/9/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1777.5$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 41.81$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N66 (0) Frequency: 1777.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.93, 8.93, 8.93)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.302 W/kg

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

Reference Value = 8.037 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.128 W/kg

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

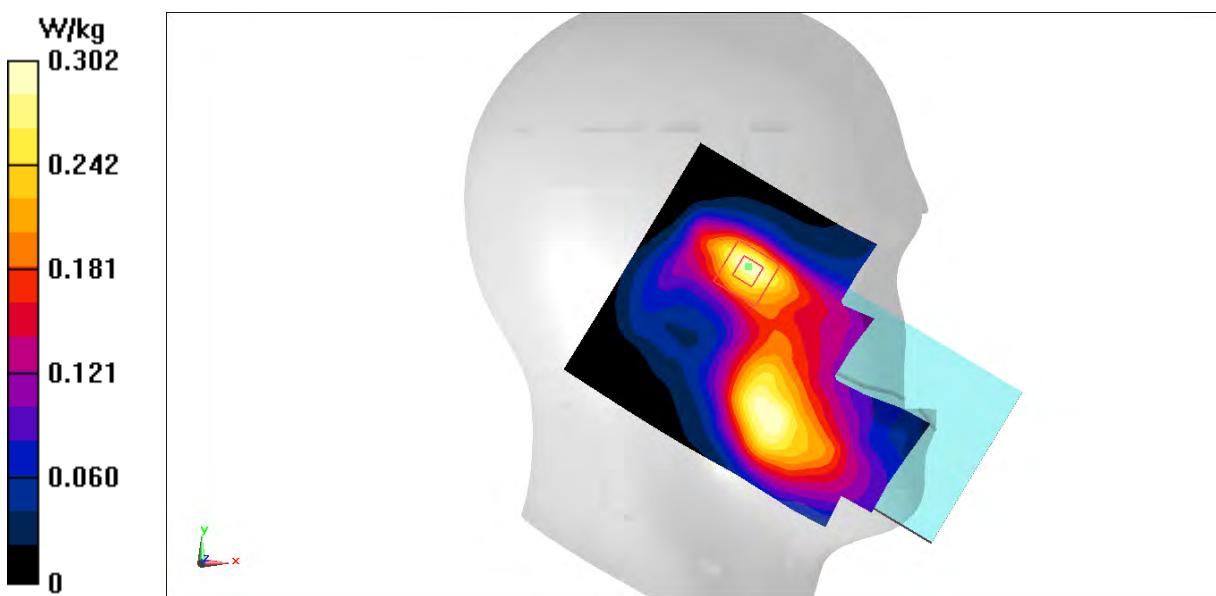


FIG A.56

N66 Body ANT1

Date: 10/9/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1777.5$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 41.81$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N66 (0) Frequency: 1777.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.93, 8.93, 8.93)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 18.28 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.694 W/kg; SAR(10 g) = 0.415 W/kg

Maximum value of SAR (measured) = 1.00 W/kg

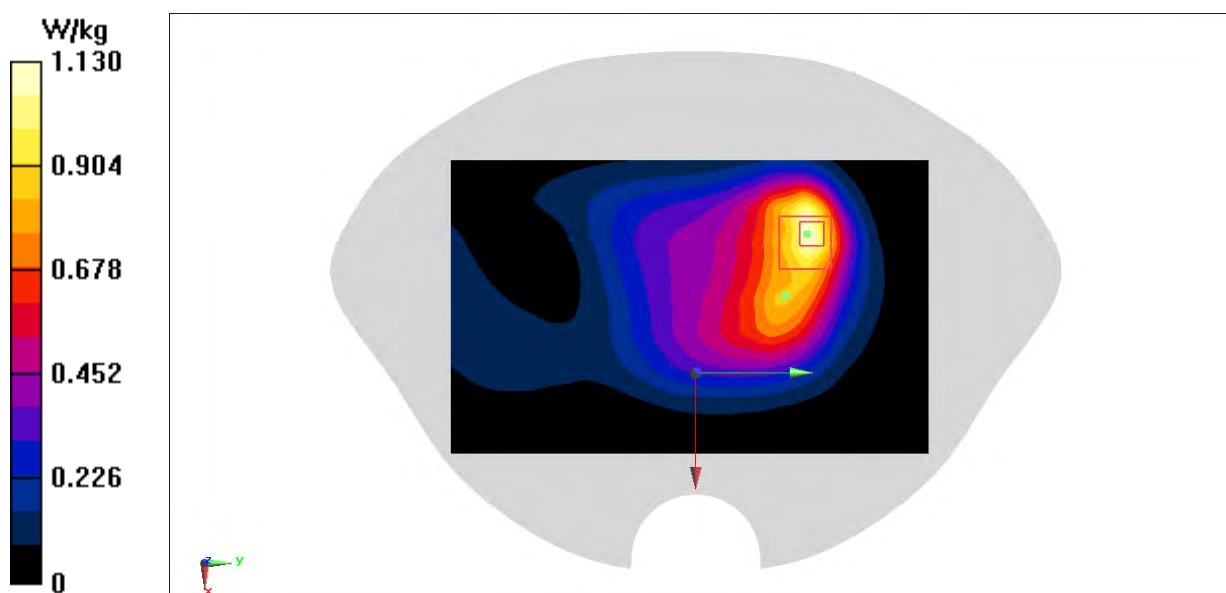


FIG A.57

N66 Head ANT3

Date: 10/9/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1712.5$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 40.97$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N66 (0) Frequency: 1712.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.93, 8.93, 8.93)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

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

Reference Value = 16.83 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.295 W/kg

Maximum value of SAR (measured) = 1.15 W/kg

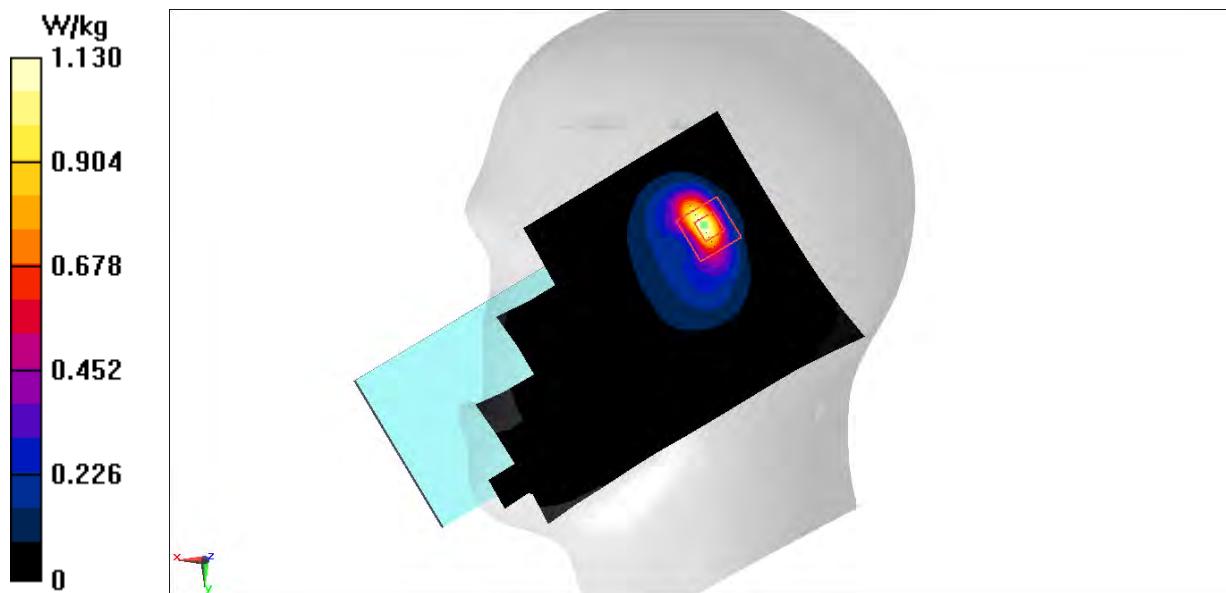


FIG A.58

N66 Body ANT3

Date: 10/9/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1712.5$ MHz; $\sigma = 1.336$ S/m; $\epsilon_r = 40.97$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N66 (0) Frequency: 1712.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.93, 8.93, 8.93)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.925 W/kg

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

Reference Value = 16.87 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.333 W/kg

Maximum value of SAR (measured) = 1.01 W/kg

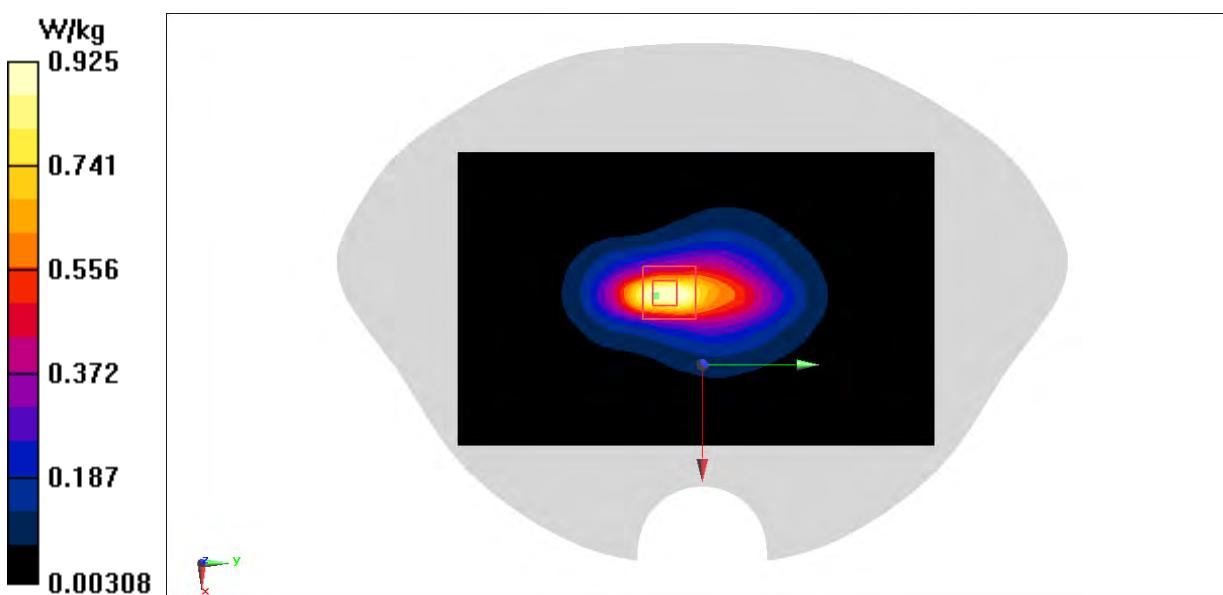


FIG A.59

N70 Head ANT1

Date: 10/9/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1707.5$ MHz; $\sigma = 1.335$ S/m; $\epsilon_r = 40.97$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G (0) Frequency: 1707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.93, 8.93, 8.93)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.232 W/kg

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

Reference Value = 5.755 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.257 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 0.227 W/kg

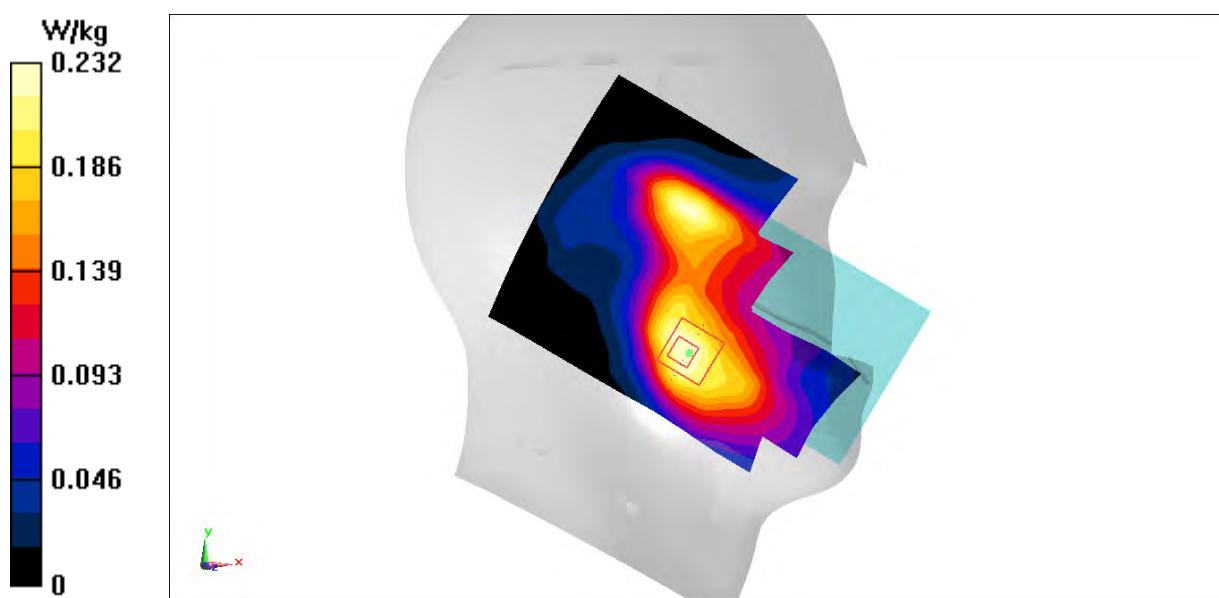


FIG A.60

N70 Body ANT1

Date: 10/9/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1707.5$ MHz; $\sigma = 1.335$ S/m; $\epsilon_r = 40.97$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G (0) Frequency: 1707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.93, 8.93, 8.93)

Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.10 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.50 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.398 W/kg

Maximum value of SAR (measured) = 0.964 W/kg

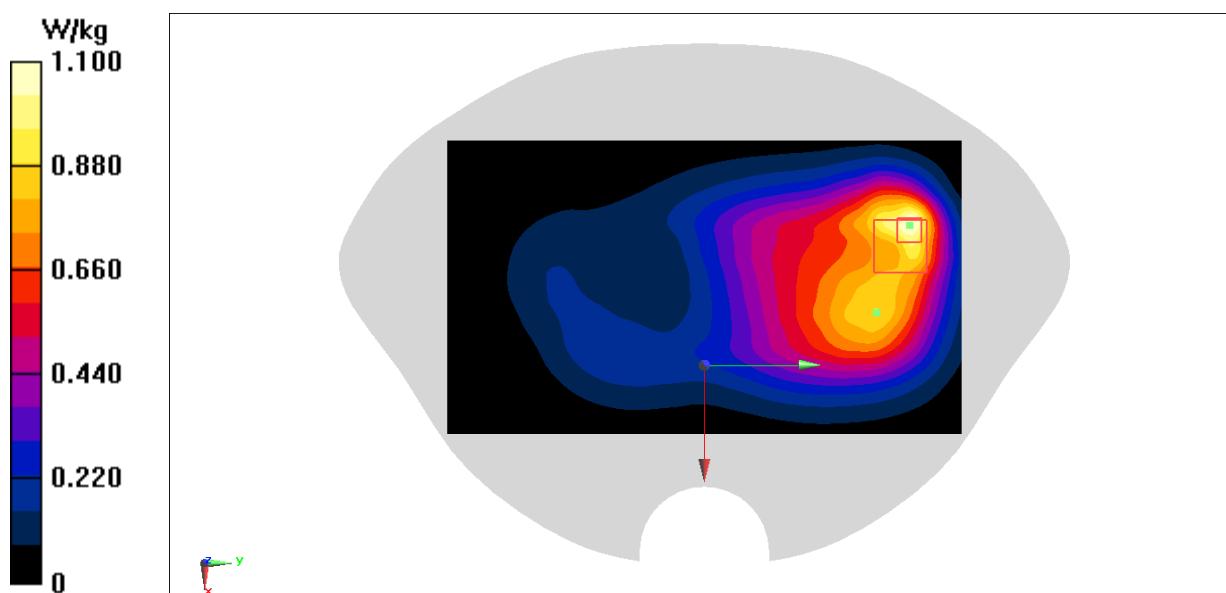


FIG A.61

N71 Head ANTO

Date: 9/27/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (extrapolated): $f = 680.5$ MHz; $\sigma = 0.864$ S/m; $\epsilon_r = 43.37$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N71 (0) Frequency: 680.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(10.74, 10.74, 10.74)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.172 W/kg

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

Reference Value = 6.050 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.188 W/kg

SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.123 W/kg

Maximum value of SAR (measured) = 0.174 W/kg

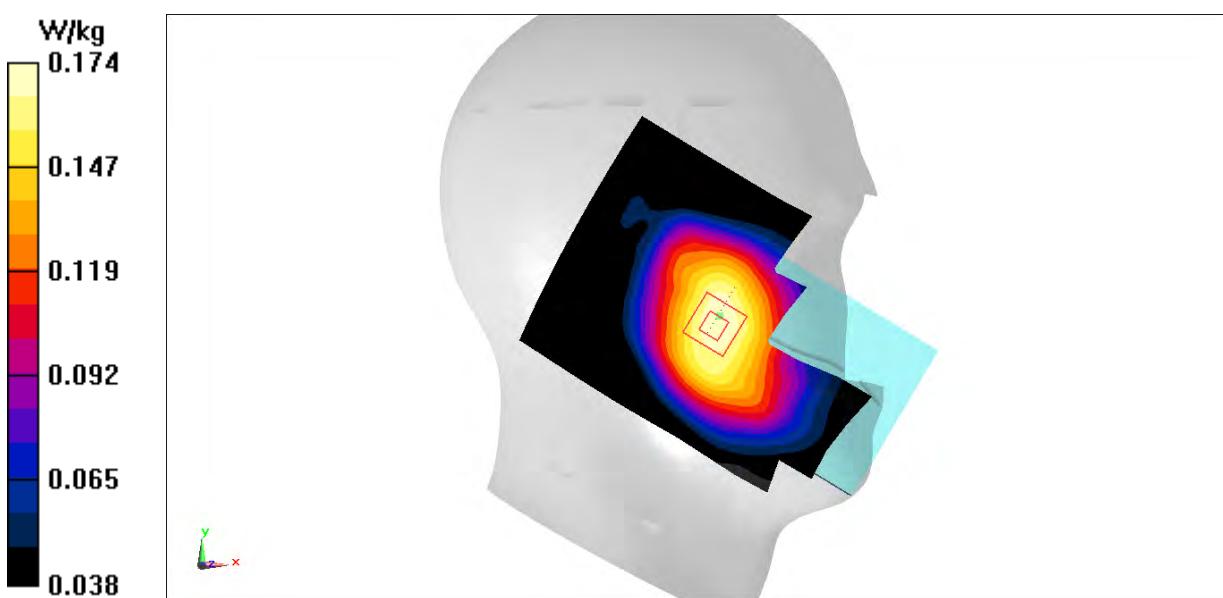


FIG A.62

N71 Body ANT0

Date: 9/27/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (extrapolated): $f = 680.5$ MHz; $\sigma = 0.864$ S/m; $\epsilon_r = 43.37$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N71 (0) Frequency: 680.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(10.74, 10.74, 10.74)

Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.392 W/kg

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

Reference Value = 21.58 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.455 W/kg

SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.393 W/kg

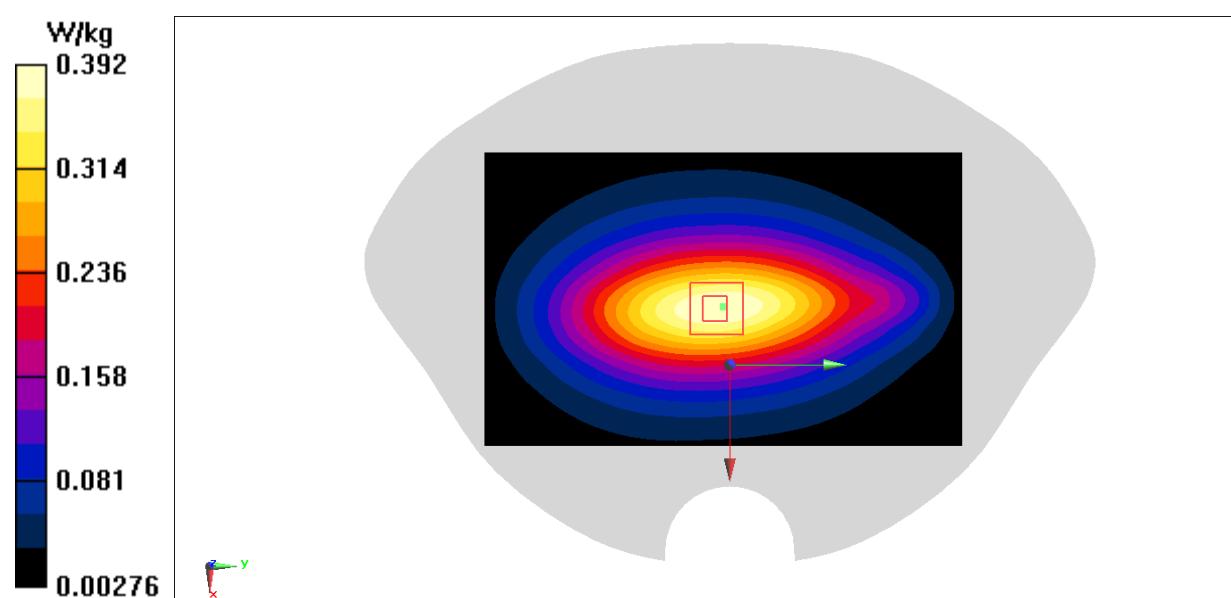


FIG A.63

N77-L Head ANT4

Date: 10/20/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.81$ S/m; $\epsilon_r = 39.03$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N77 (0) Frequency: 3500.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.05, 7.05, 7.05)

Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.905 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 15.15 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 1.05 W/kg

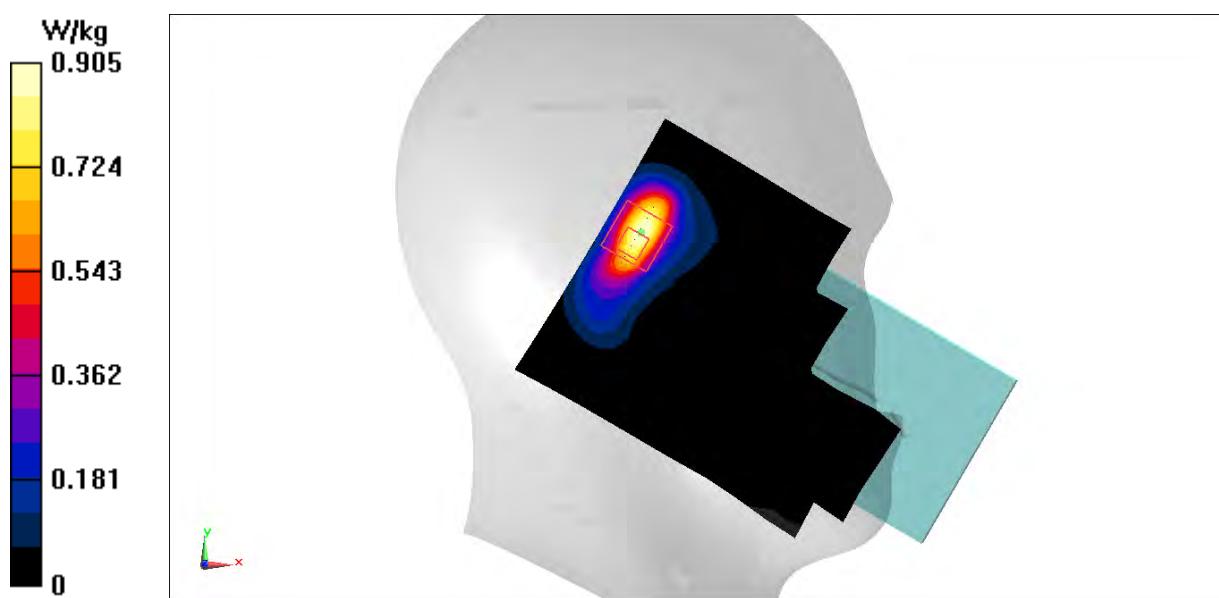


FIG A.64

N77-L Body ANT4

Date: 10/20/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3460.02$ MHz; $\sigma = 2.777$ S/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N77 (0) Frequency: 3460.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.05, 7.05, 7.05)

Area Scan (81x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.53 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 9.351 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.830 W/kg; SAR(10 g) = 0.353 W/kg

Maximum value of SAR (measured) = 1.47 W/kg

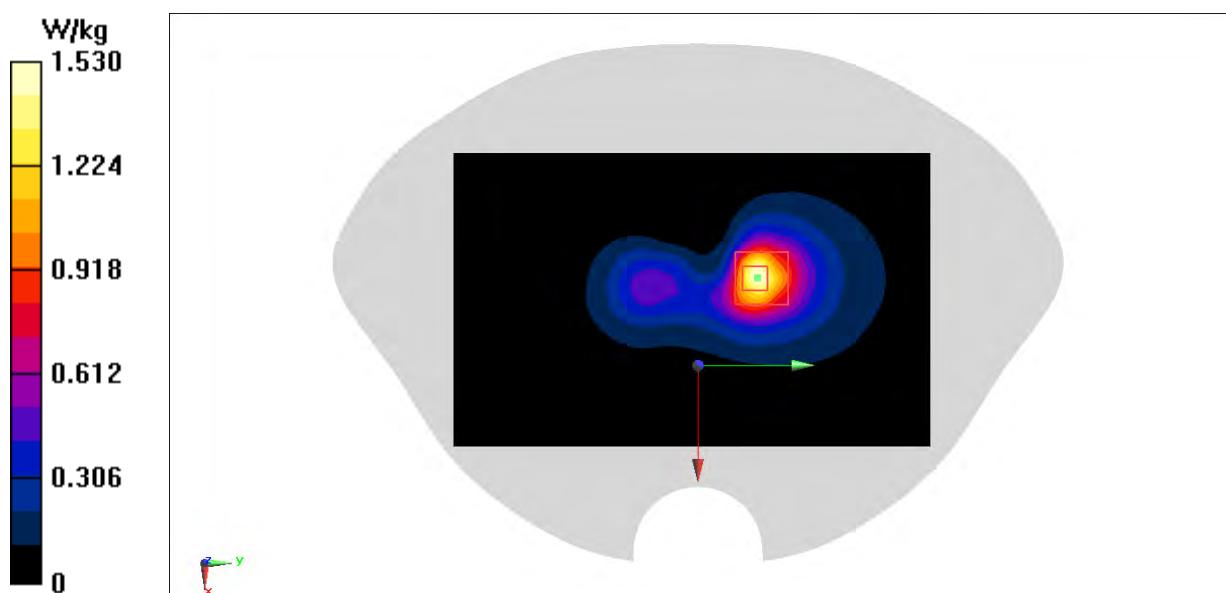


FIG A.65

N77-H Head ANT4

Date: 10/20/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3710.01$ MHz; $\sigma = 2.997$ S/m; $\epsilon_r = 38.68$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N77 (0) Frequency: 3710.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(6.78, 6.78, 6.78)

Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.19 W/kg

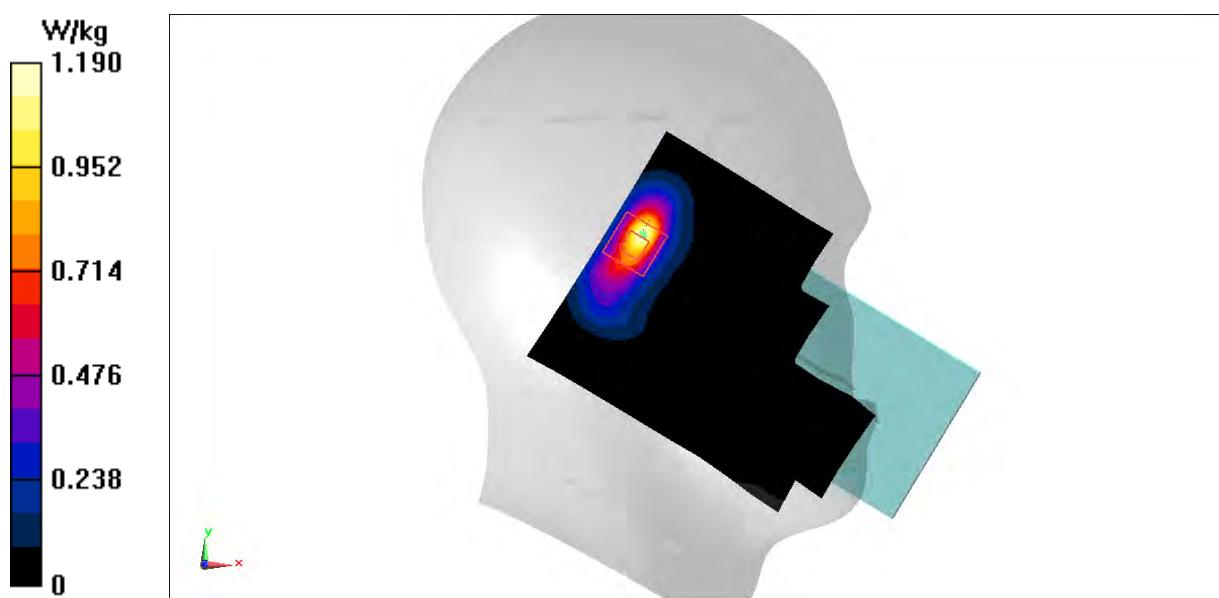
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 18.36 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 1.27 W/kg

**FIG A.66**

N77-H Body ANT4

Date: 10/20/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3710.01$ MHz; $\sigma = 2.997$ S/m; $\epsilon_r = 38.68$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, N77 (0) Frequency: 3710.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(6.78, 6.78, 6.78)

Area Scan (81x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.29 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 16.29 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.311 W/kg

Maximum value of SAR (measured) = 1.40 W/kg

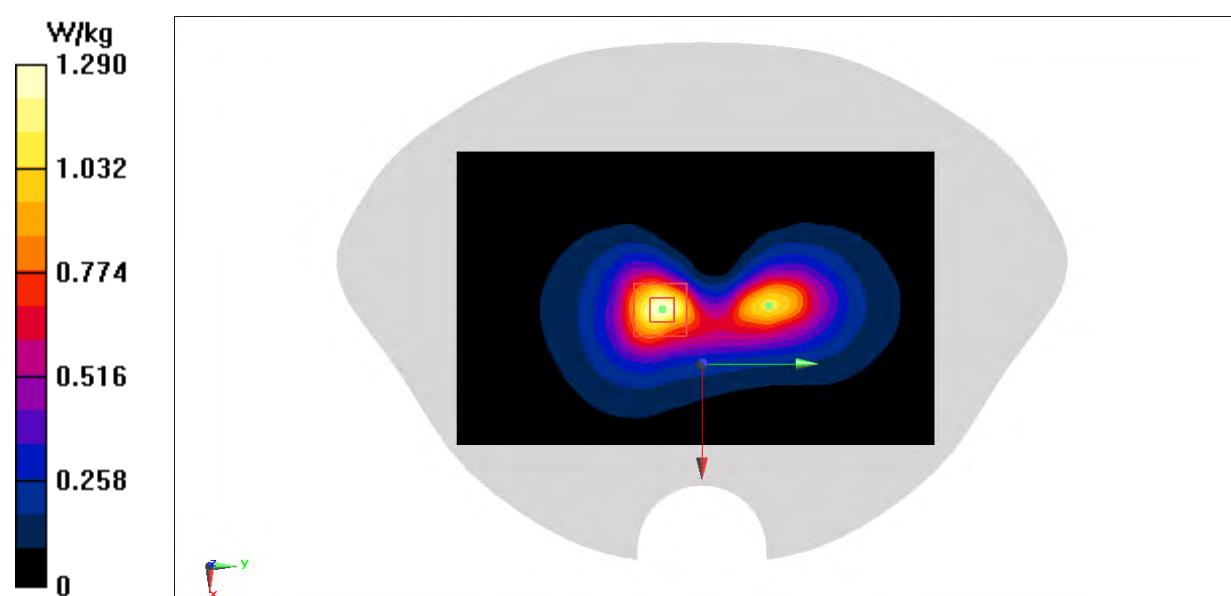


FIG A.67

WIFI2.4G Head

Date: 10/8/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.854$ S/m; $\epsilon_r = 40.37$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WIFI 2450 (0) Frequency: 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.82, 7.82, 7.82)

Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.189 W/kg

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

Reference Value = 4.611 V/m; Power Drift = -0.07dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.100 W/kg; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.166 W/kg

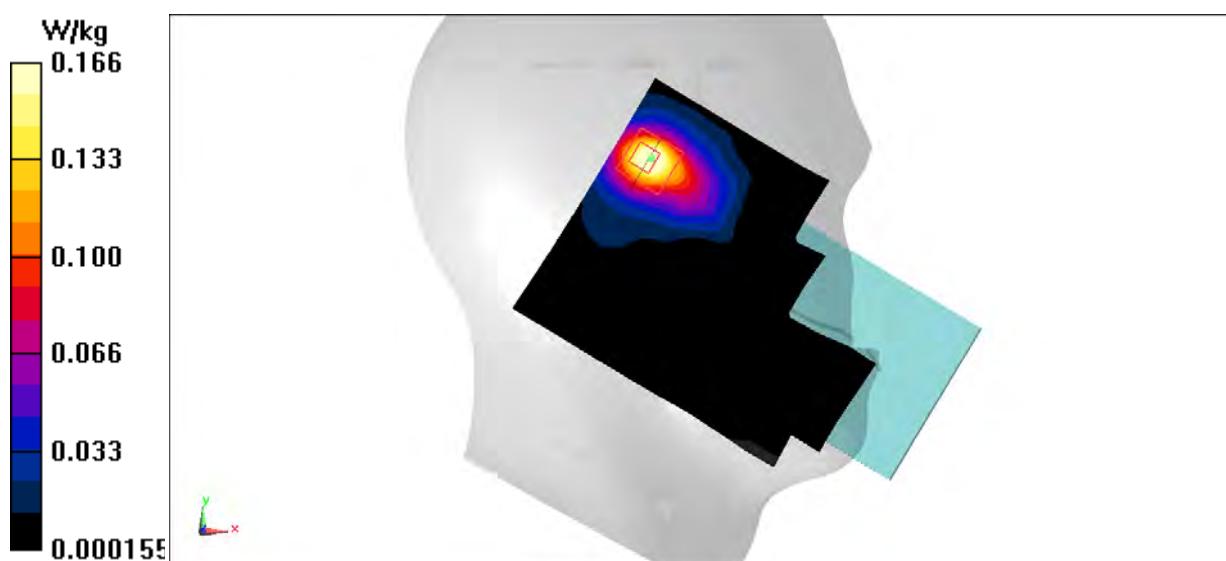


FIG A.68

WIFI2.4G Body

Date: 10/8/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.854$ S/m; $\epsilon_r = 40.37$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WIFI 2450 (0) Frequency: 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.82, 7.82, 7.82)

Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.42 V/m; Power Drift = -0.04dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.347 W/kg

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

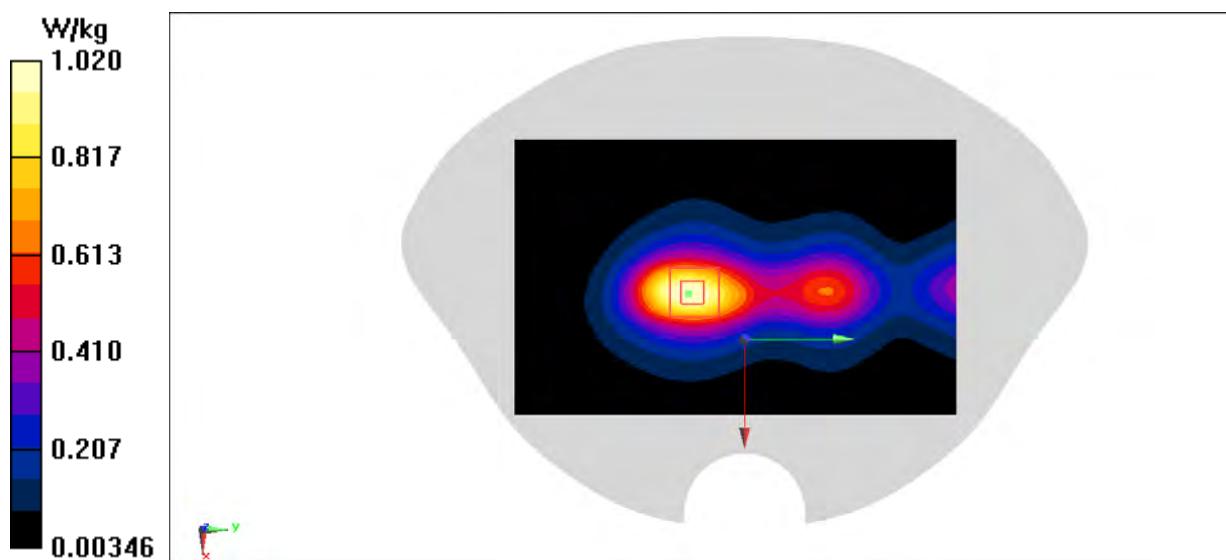


FIG A.69

WIFI5G Head

Date: 10/14/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.634$ S/m; $\epsilon_r = 35.735$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLAN 11a (0) Frequency: 5290 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(5.59, 5.59, 5.59)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.576 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.121 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.948 W/kg

SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.050 W/kg

Maximum value of SAR (measured) = 0.588 W/kg

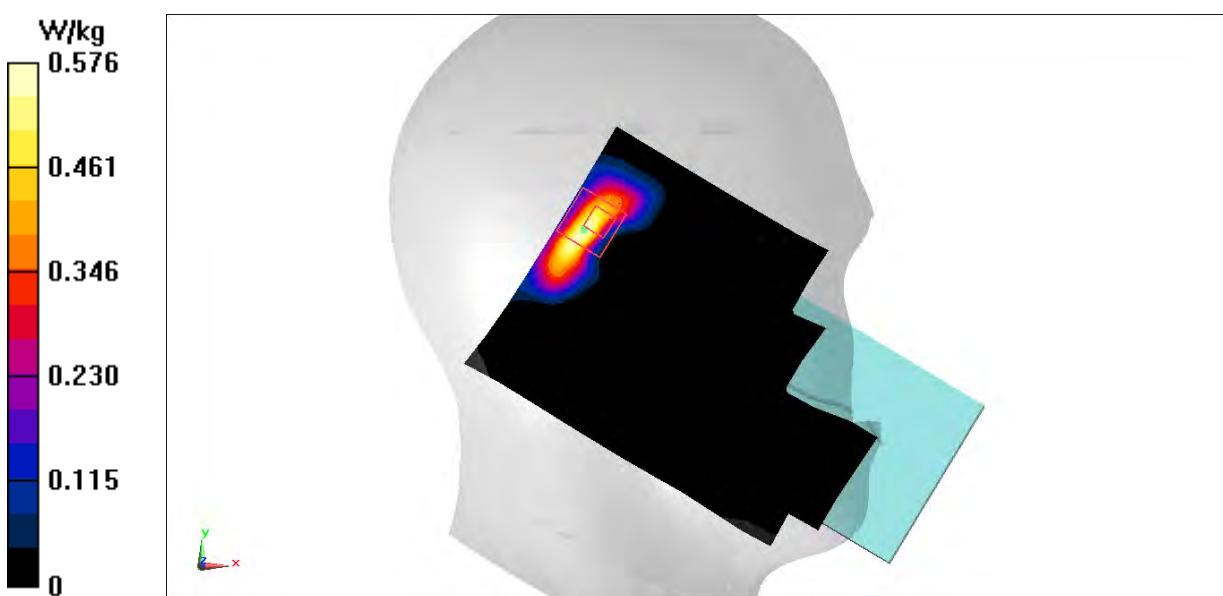


FIG A.70

WIFI5G Body

Date: 10/14/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 5320 \text{ MHz}$; $\sigma = 4.623 \text{ S/m}$; $\epsilon_r = 34.745$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLAN 11a (0) Frequency: 5320 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(5.59, 5.59, 5.59)

Area Scan (81x131x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.49 W/kg

Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 4.845 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.279 W/kg

Maximum value of SAR (measured) = 1.47 W/kg

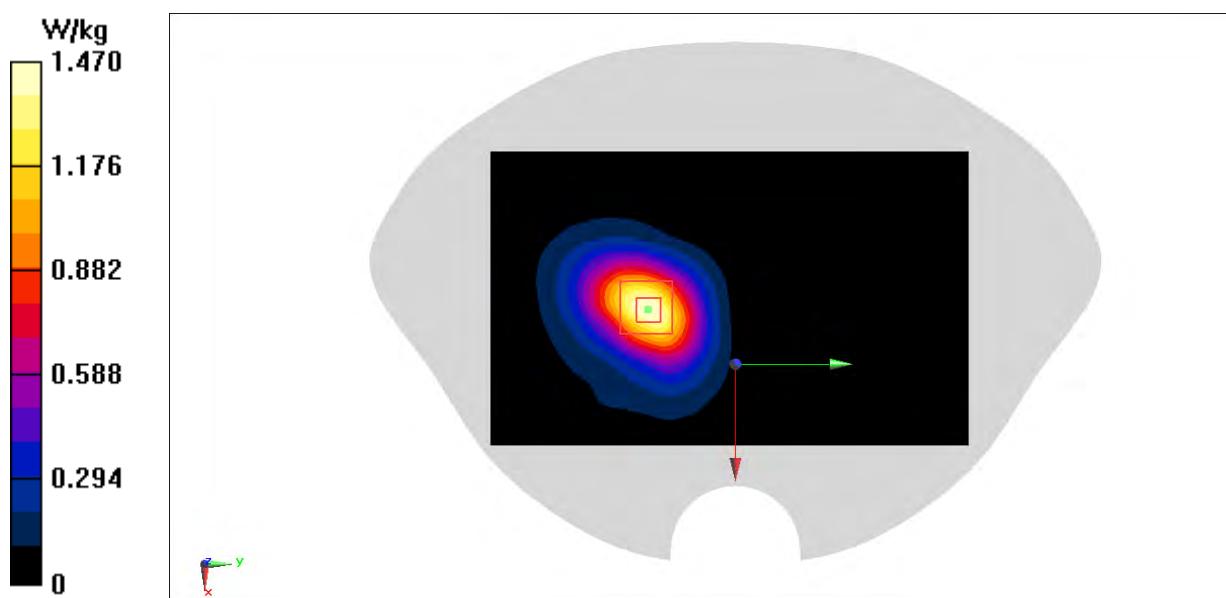


FIG A.71

BT Head

Date: 10/8/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.878$ S/m; $\epsilon_r = 40.38$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, Bluetooth (0) Frequency: 2441 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.82, 7.82, 7.82)

Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

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

Reference Value = 2.504 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0910 W/kg

SAR(1 g) = 0.042 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.0698 W/kg

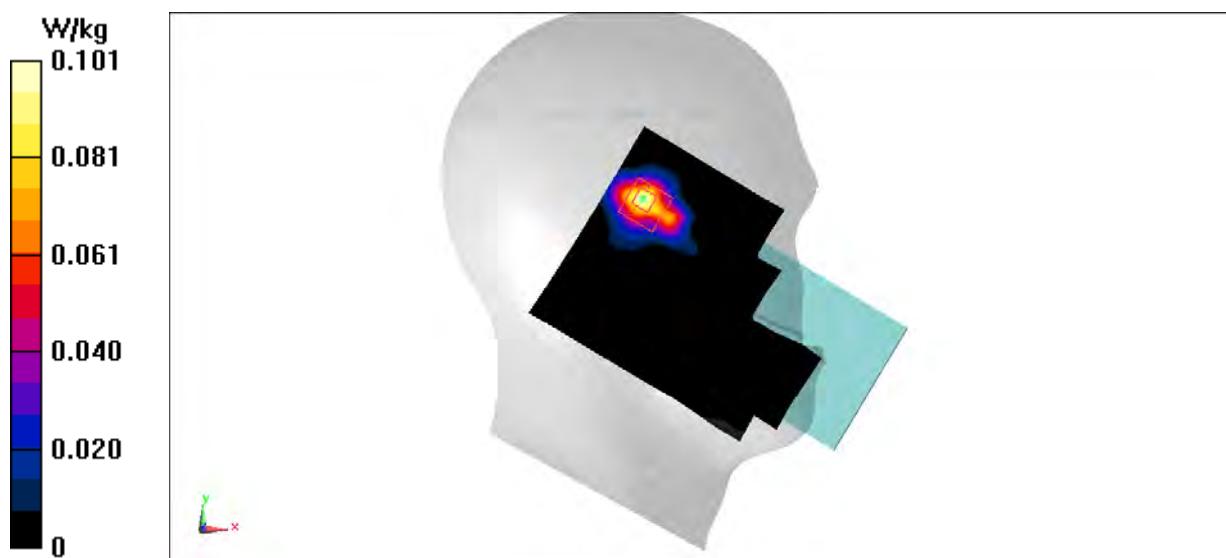


FIG A.72

BT Body

Date: 10/8/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2441 \text{ MHz}$; $\sigma = 1.878 \text{ S/m}$; $\epsilon_r = 40.38$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, Bluetooth (0) Frequency: 2441 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.82, 7.82, 7.82)

Area Scan (81x131x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0354 W/kg

Zoom Scan (7x9x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.437 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0460 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00895 W/kg

Maximum value of SAR (measured) = 0.0269 W/kg

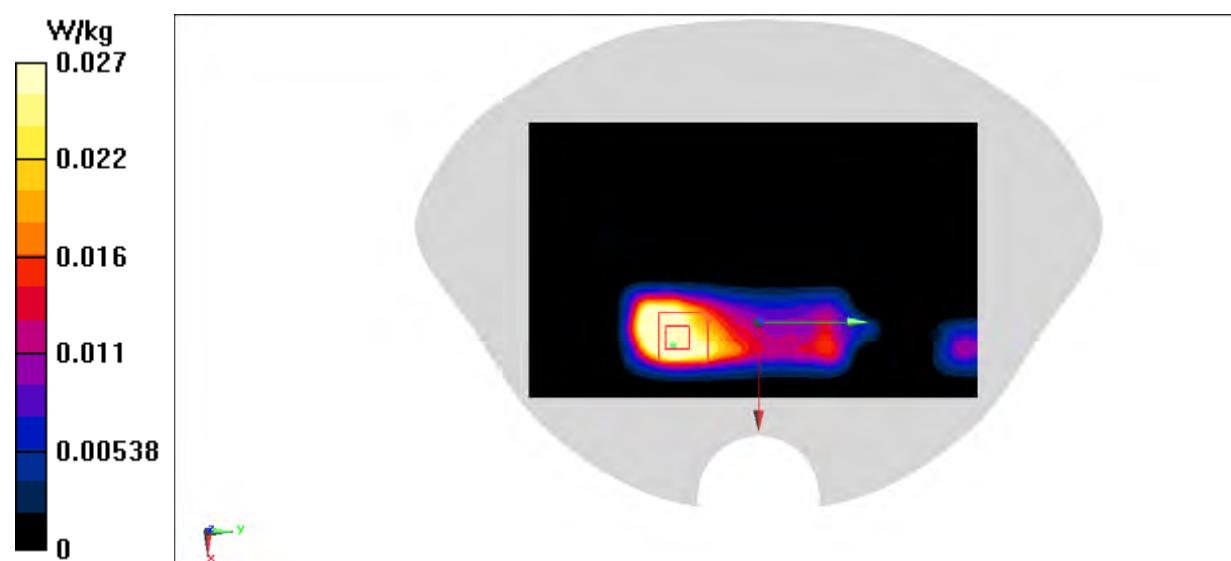
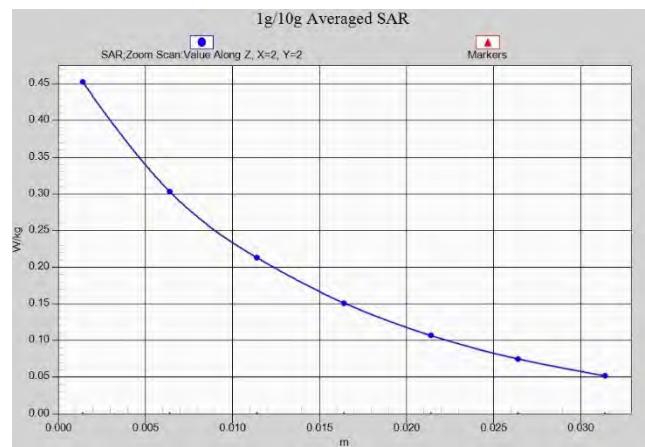
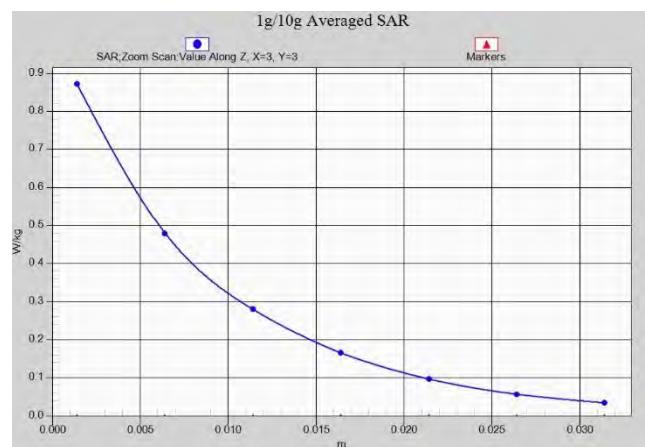
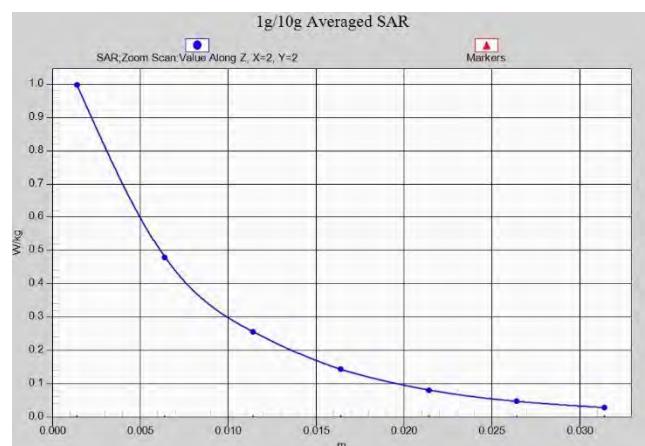
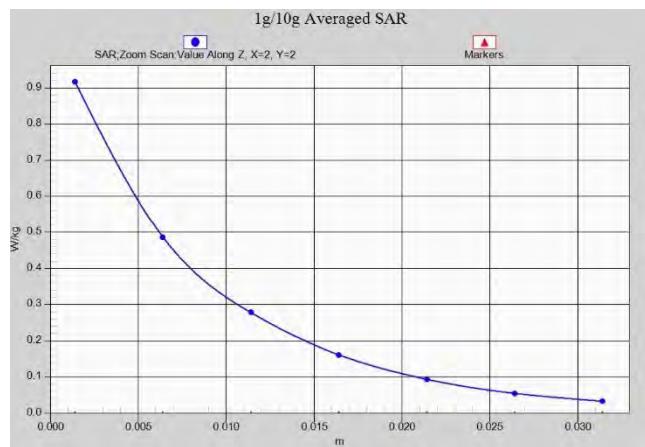
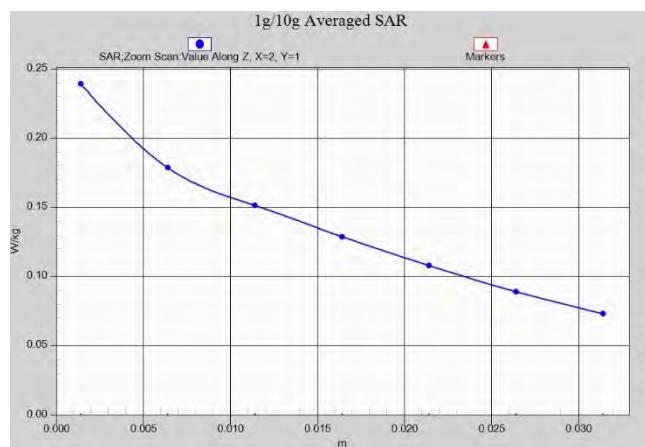
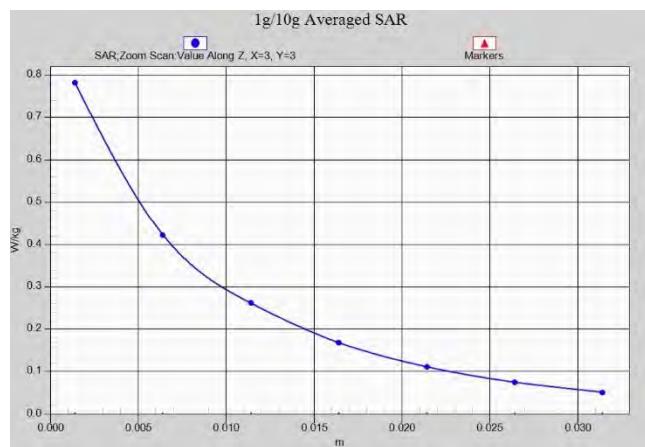
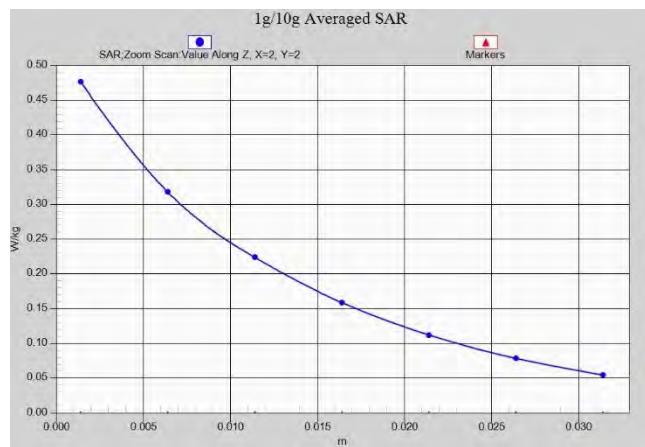
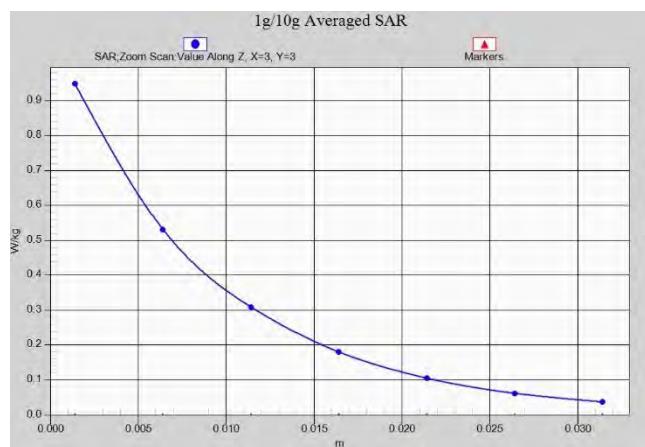
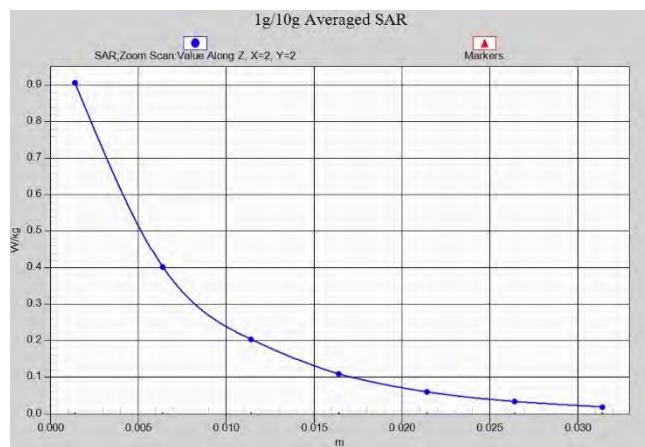
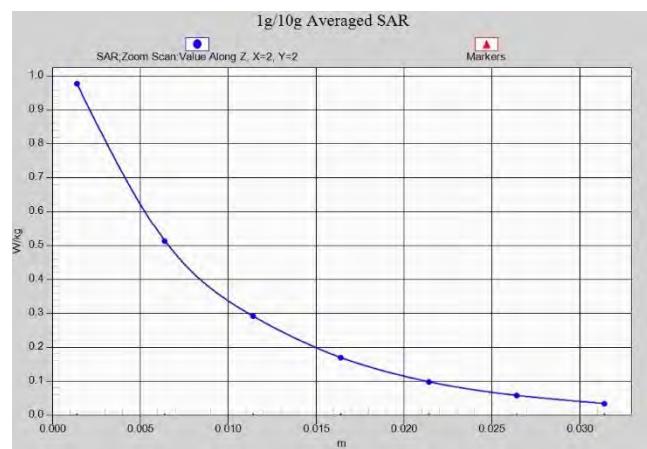
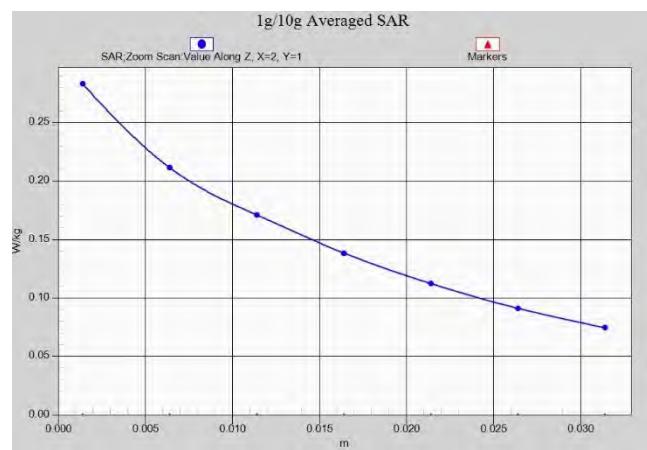
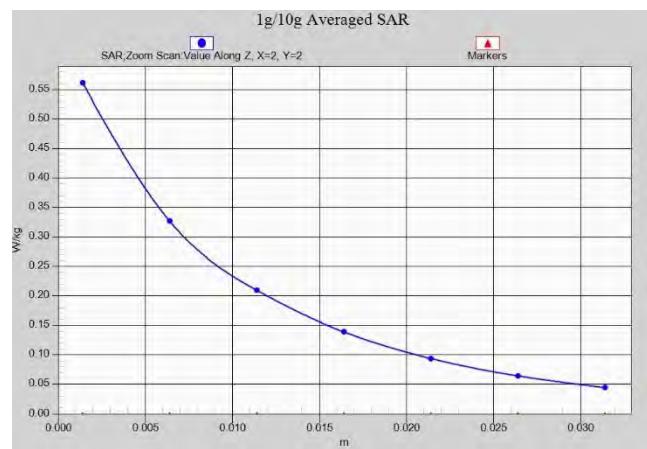


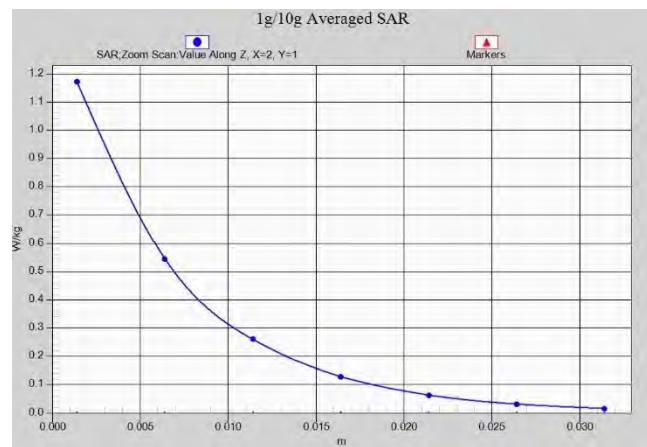
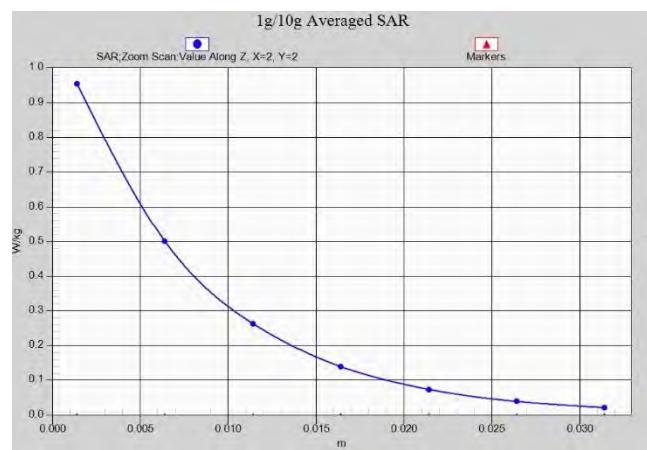
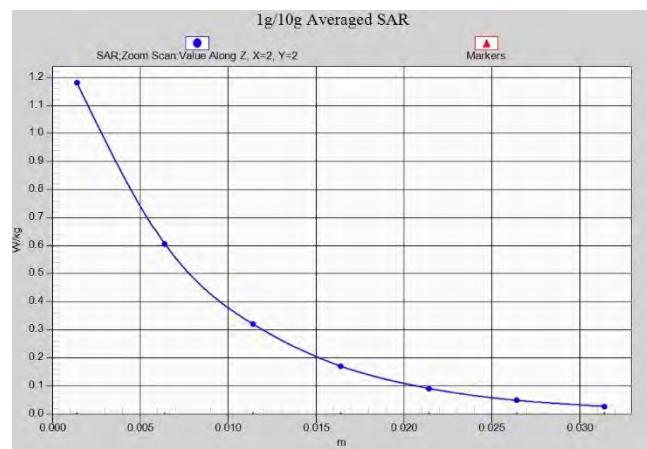
FIG A.73

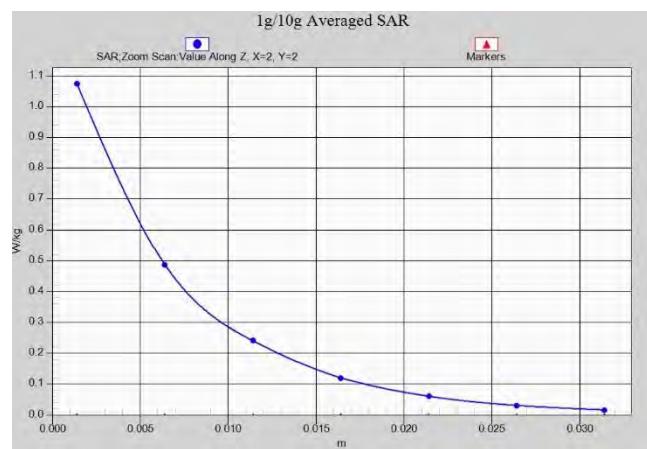
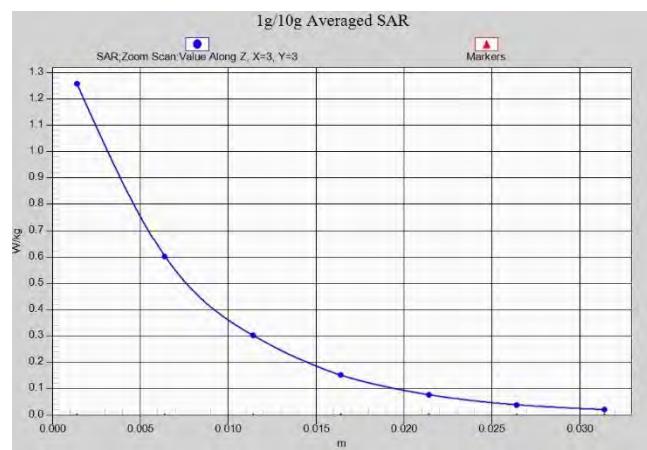
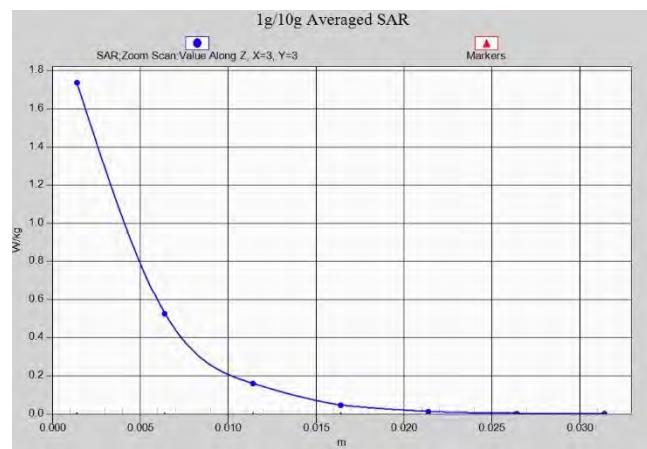

Z-Scan at power reference point (N2 ANT1 Head)

Z-Scan at power reference point (N2 ANT1 Body)

Z-Scan at power reference point (N2 ANT3 Head)

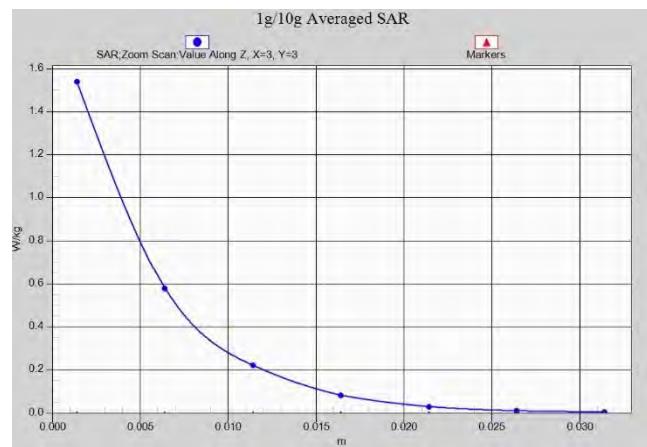
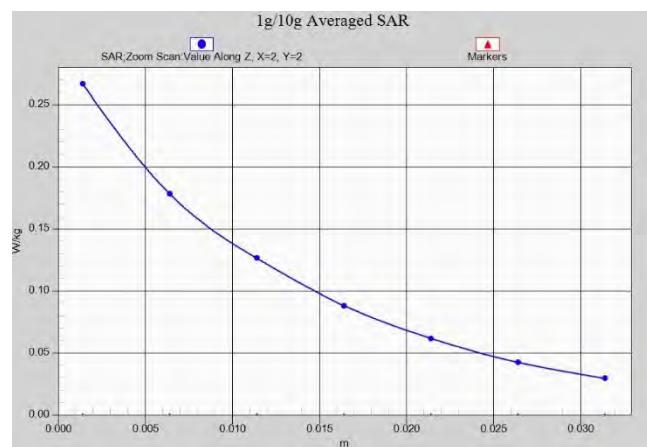
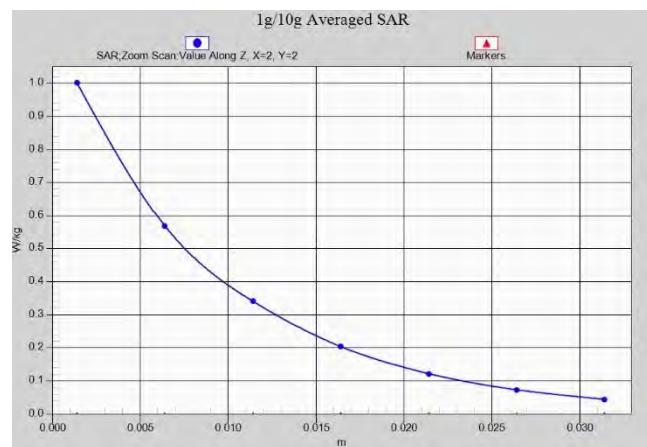

Z-Scan at power reference point (N2 ANT3 Body)

Z-Scan at power reference point (N5 ANT0 Body)

Z-Scan at power reference point (N5 ANT0 Body)

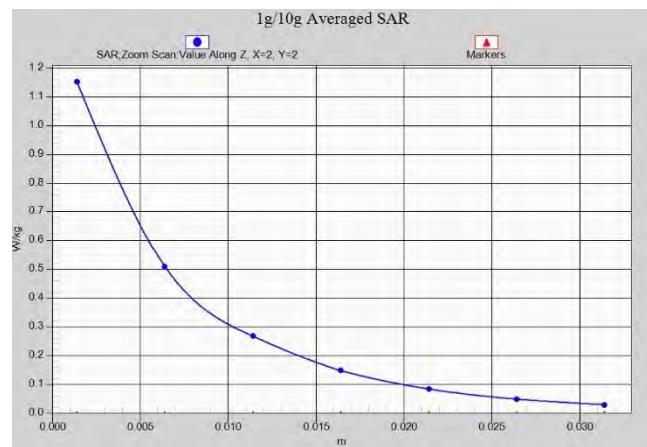
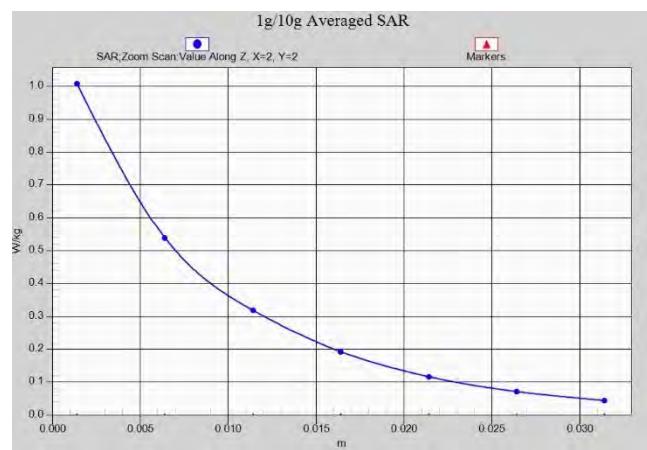
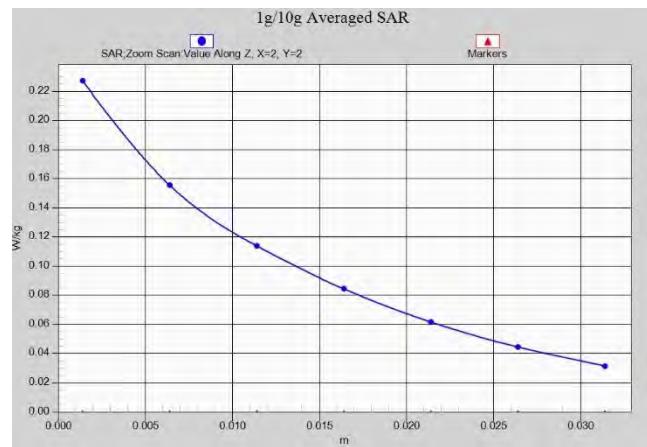

Z-Scan at power reference point (N25 ANT1 Head)

Z-Scan at power reference point (N25 ANT1 Body)

Z-Scan at power reference point (N25 ANT3 Head)

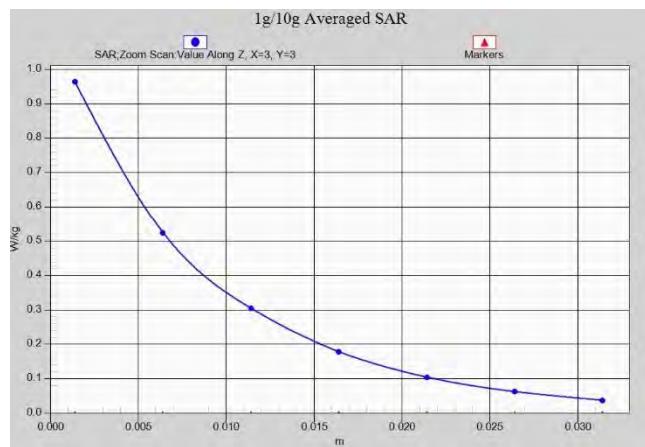
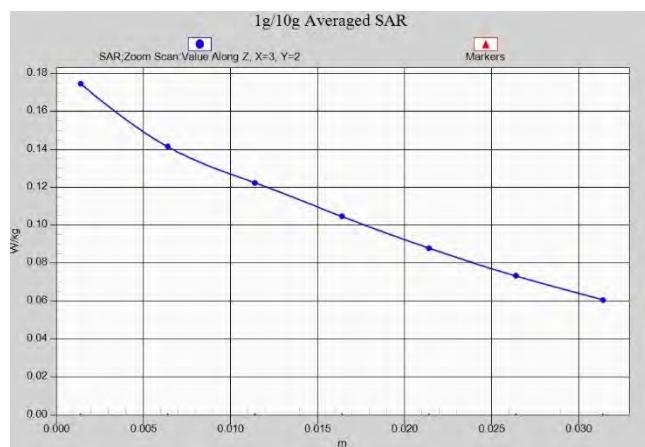
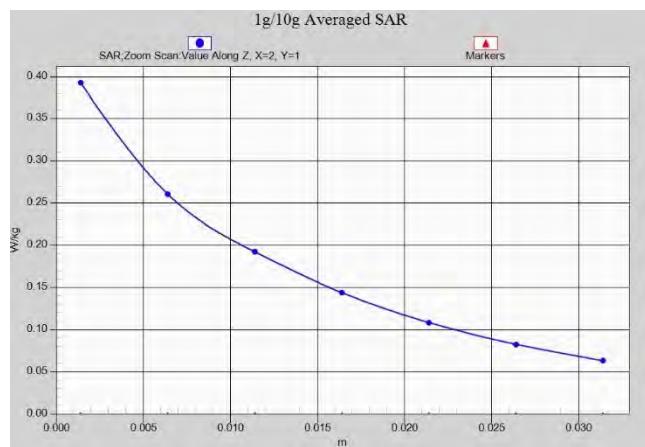

Z-Scan at power reference point (N25 ANT3 Body)

Z-Scan at power reference point (N26 ANT0 Head)

Z-Scan at power reference point (N26 ANT0 Body)

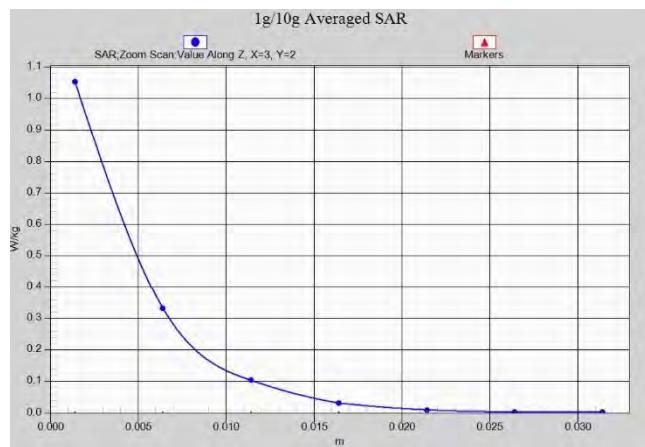

Z-Scan at power reference point (N30 ANT3 Head)

Z-Scan at power reference point (N30 ANT3 Body)

Z-Scan at power reference point (N30 ANT0 Body)


Z-Scan at power reference point (N41 ANT3 Head)

Z-Scan at power reference point (N41 ANT3 Body)

Z-Scan at power reference point (N48 ANT4 Head)

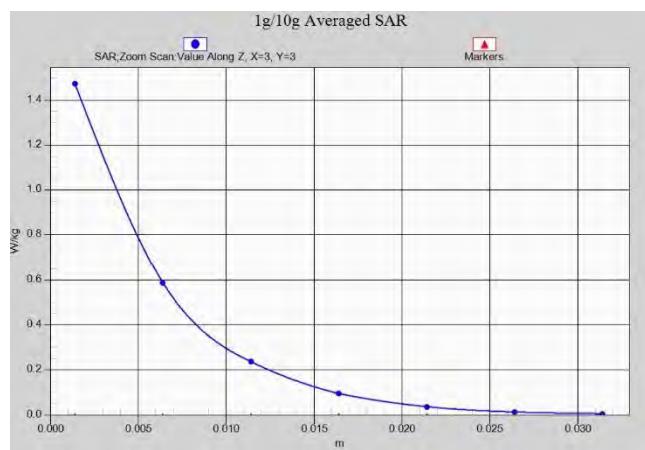

Z-Scan at power reference point (N48 ANT4 Body)

Z-Scan at power reference point (N66 ANT1 Head)

Z-Scan at power reference point (N66 ANT1 Body)


Z-Scan at power reference point (N66 ANT3 Head)

Z-Scan at power reference point (N66 ANT3 Body)

Z-Scan at power reference point (N70 ANT1 Head)

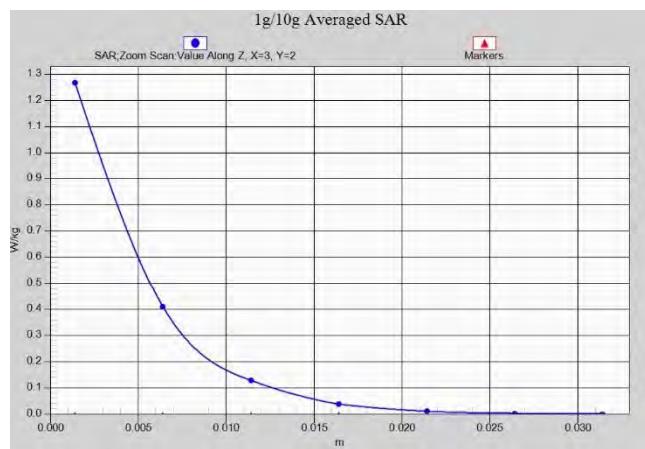

Z-Scan at power reference point (N70 ANT1 Body)

Z-Scan at power reference point (N71 ANT0 Head)

Z-Scan at power reference point (N71 ANT0 Body)



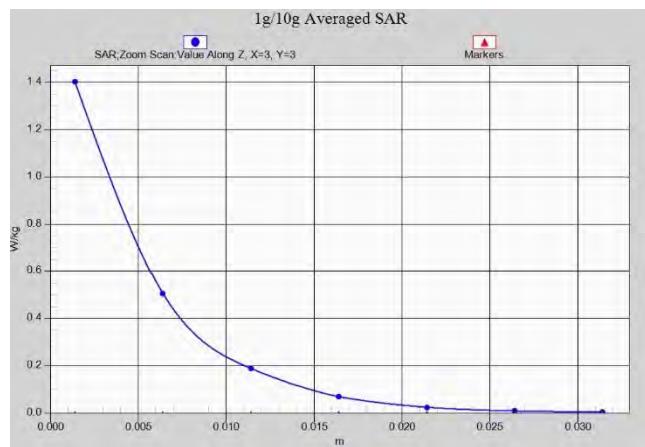
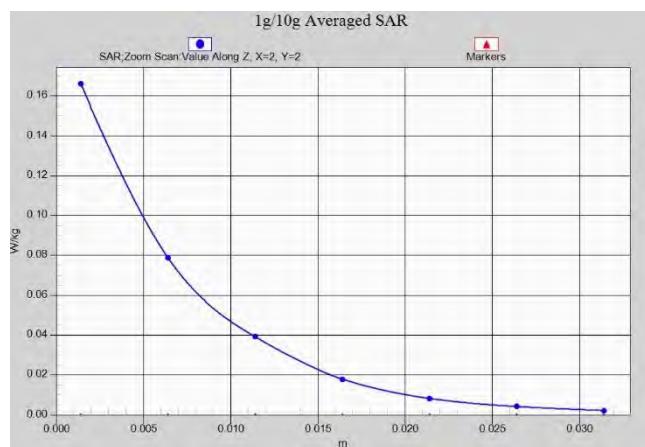
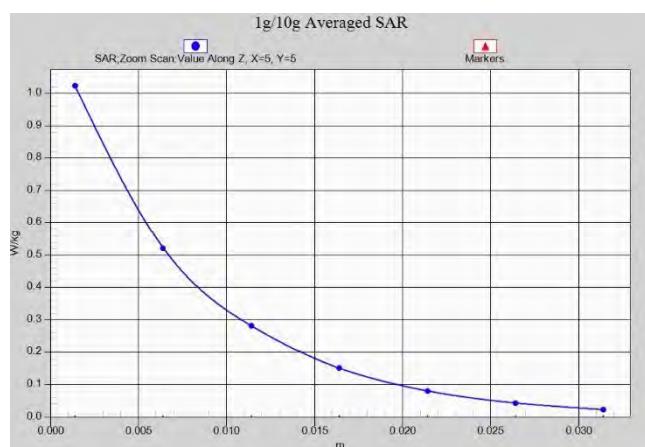
Z-Scan at power reference point (N77-L ANT4 Head)

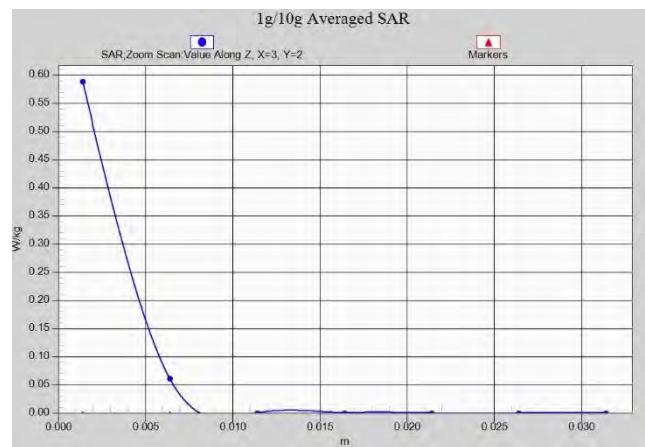
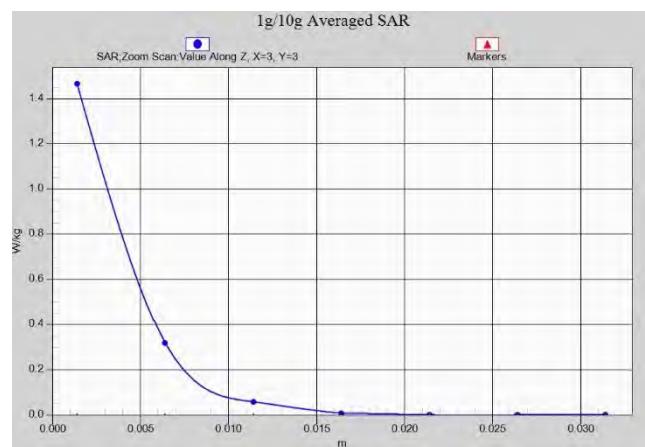
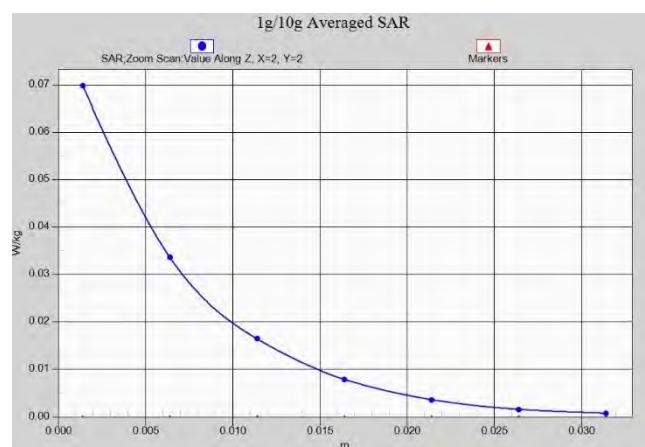


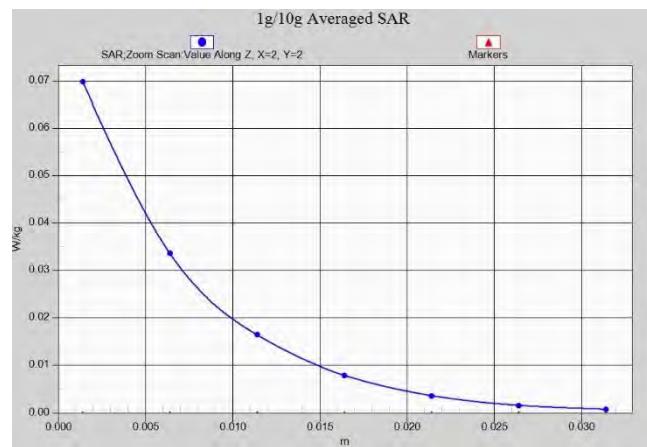
Z-Scan at power reference point (N77-L ANT4 Body)



Z-Scan at power reference point (N77-H ANT4 Head)


Z-Scan at power reference point (N77-H ANT4 Body)

Z-Scan at power reference point (WIFI2.4G Head)

Z-Scan at power reference point (WIFI2.4G Body)


Z-Scan at power reference point (WIFI5G Head)

Z-Scan at power reference point (WIFI5G Body)

Z-Scan at power reference point (BT Head)



Z-Scan at power reference point (BT Body)

ANNEX B Verification Results

750MHz

Date: 9/27/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.887 \text{ S/m}$; $\epsilon_r = 43.18$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7600 ConvF(10.74, 10.74, 10.74)

Area Scan (131x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.82 W/kg

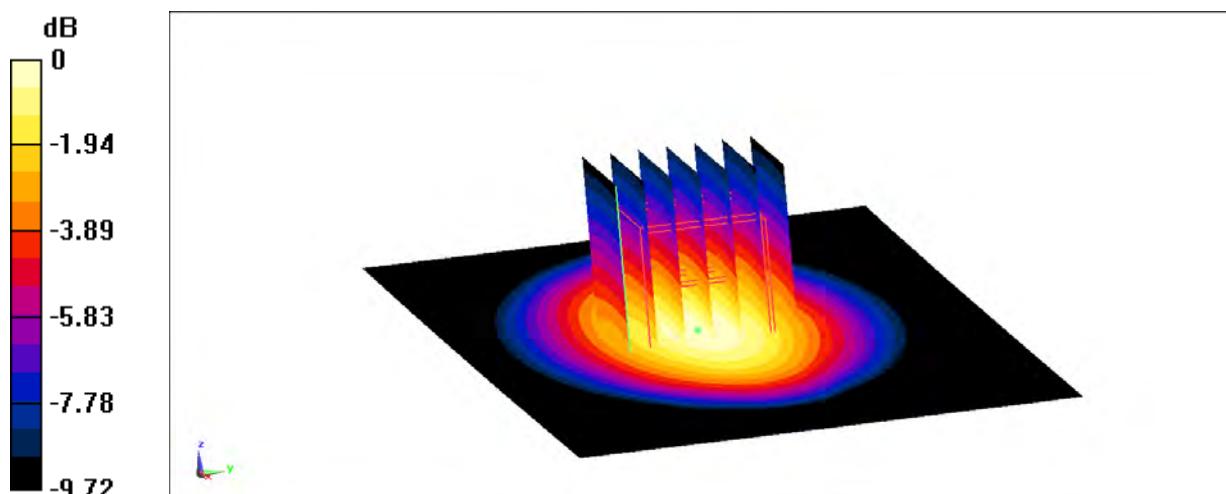
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.85 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.46 W/kg

Maximum value of SAR (measured) = 2.86 W/kg



0 dB = 2.86 W/kg = 4.56 dBW/kg

900MHz

Date: 9/30/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.955 \text{ S/m}$; $\epsilon_r = 42.68$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(10.27, 10.27, 10.27)

Area Scan (131x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.80 W/kg

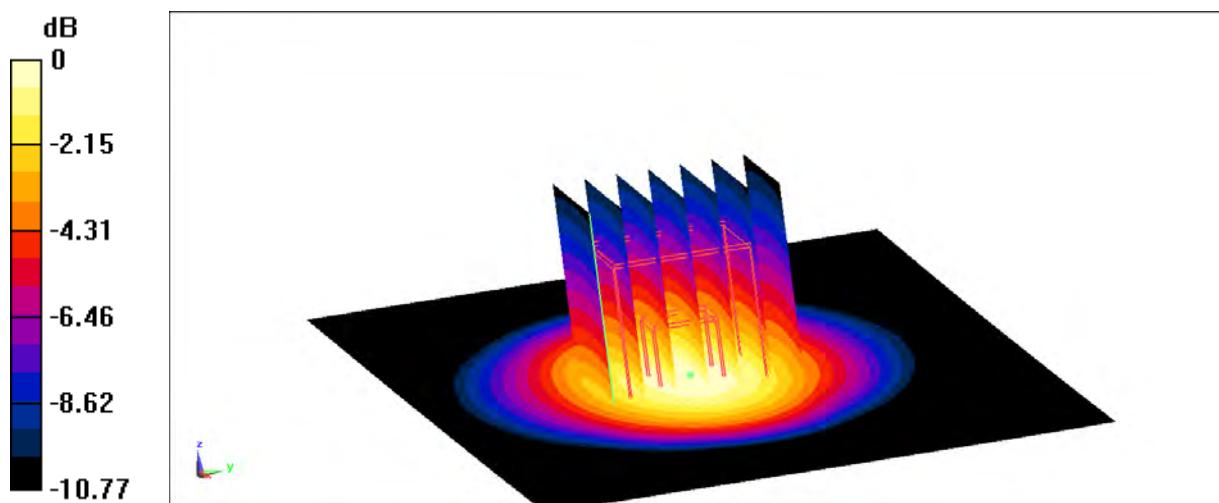
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.26 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.50 W/kg

SAR(1 g) = 2.75 W/kg; SAR(10 g) = 1.78 W/kg

Maximum value of SAR (measured) = 3.83 W/kg



$$0 \text{ dB} = 3.83 \text{ W/kg} = 5.83 \text{ dBW/kg}$$

1750MHz

Date: 10/9/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 41.81$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.93, 8.93, 8.93)

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.9 W/kg

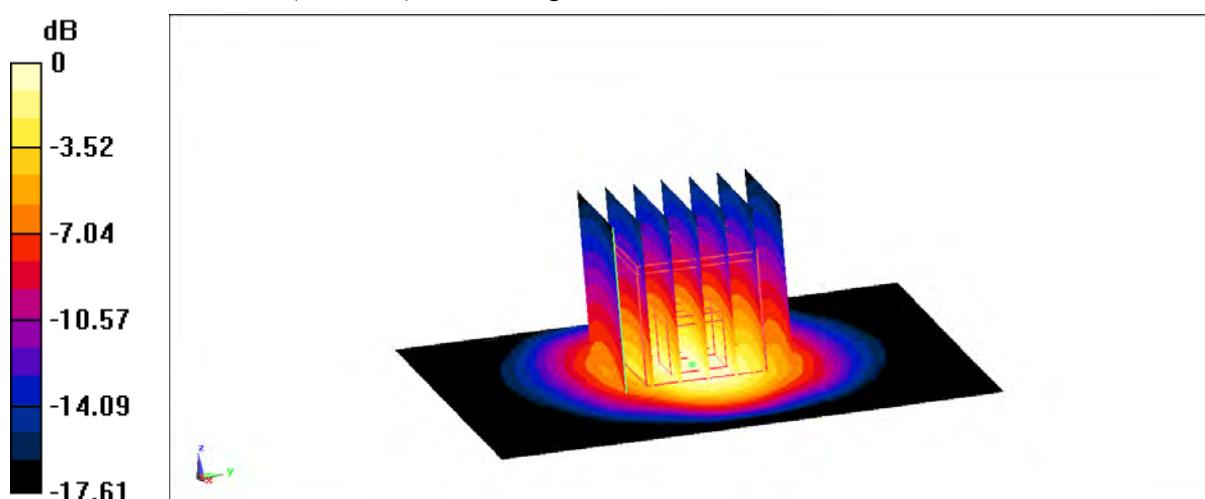
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.90 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 9.23 W/kg; SAR(10 g) = 4.81 W/kg

Maximum value of SAR (measured) = 14.5 W/kg



$$0 \text{ dB} = 14.5 \text{ W/kg} = 11.61 \text{ dBW/kg}$$

1900MHz

Date: 9/29/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.457$ S/m; $\epsilon_r = 41.57$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

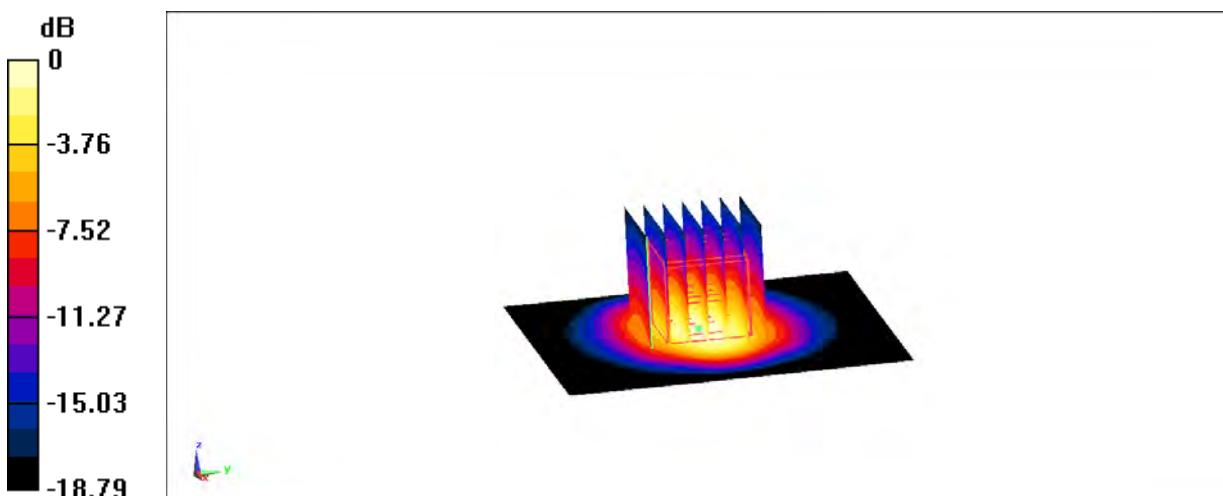
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.6 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 19.3 W/kg

SAR(1 g) = 9.91 W/kg; SAR(10 g) = 5.05 W/kg

Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 15.8 W/kg = 11.99 dBW/kg

1900MHz

Date: 9/28/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.428$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7600 ConvF(8.54, 8.54, 8.54)

Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

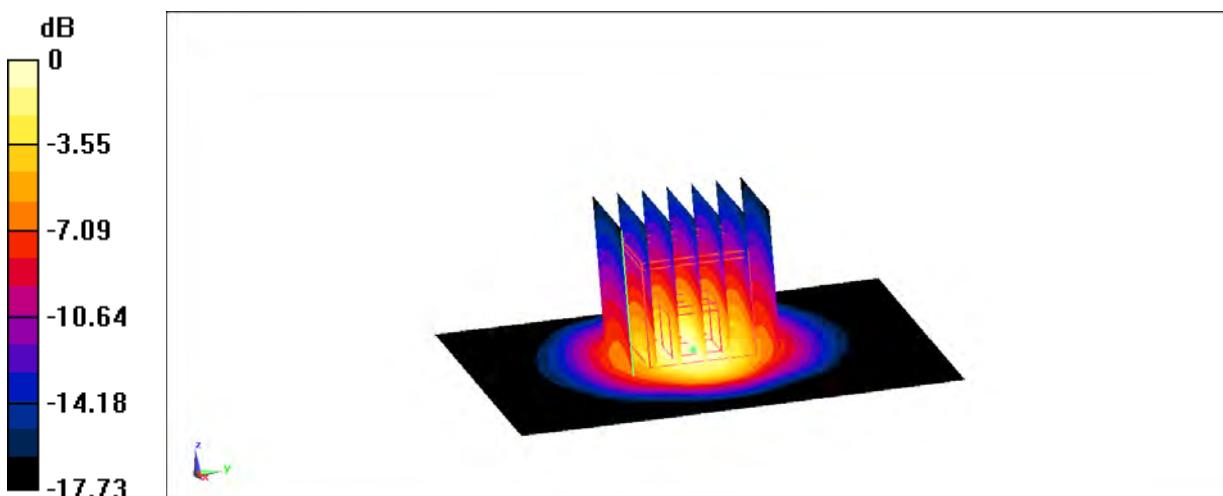
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 101.5 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 9.99 W/kg; SAR(10 g) = 5.15 W/kg

Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg = 12.01 dBW/kg

2300MHz

Date: 10/10/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.749$ S/m; $\epsilon_r = 41.09$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2300 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(8.14, 8.14, 8.14)

Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.7 W/kg

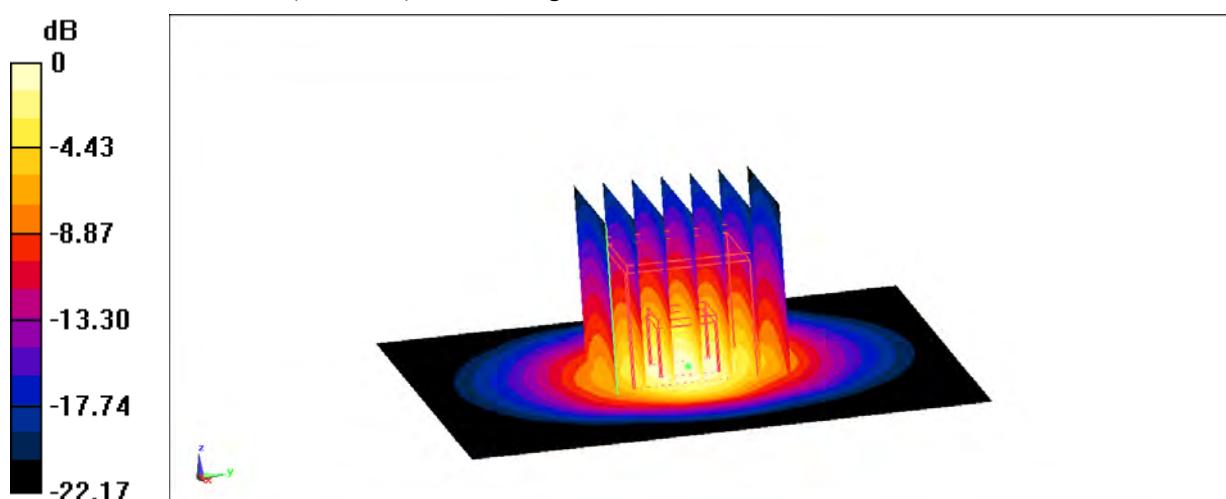
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.2 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 25.2 W/kg

SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.71 W/kg

Maximum value of SAR (measured) = 20.4 W/kg



2450MHz

Date: 10/8/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.878$ S/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.82, 7.82, 7.82)

Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

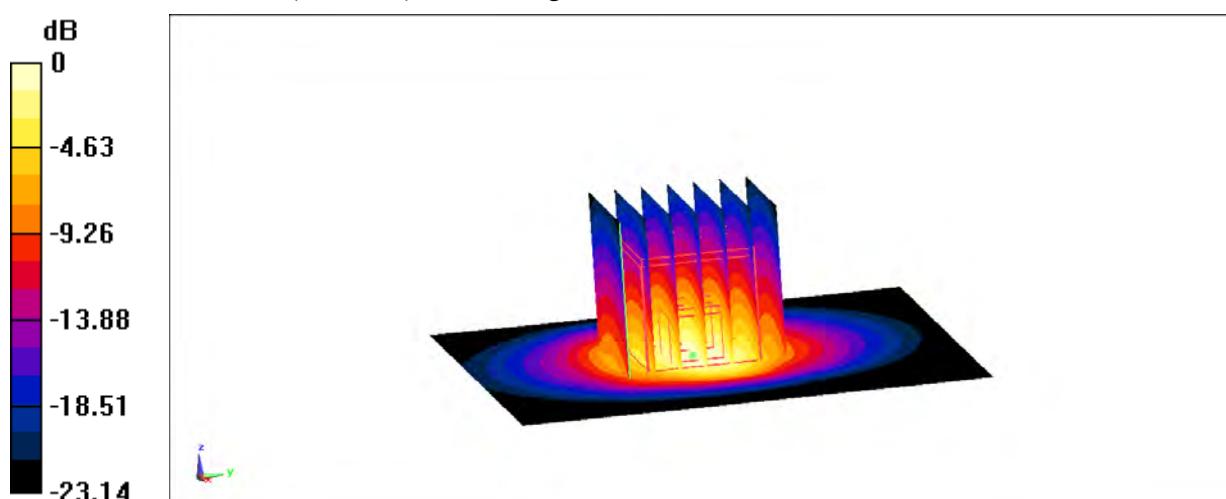
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.8 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.81 W/kg

Maximum value of SAR (measured) = 22.0 W/kg



2600MHz

Date: 10/19/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.028$ S/m; $\epsilon_r = 40.19$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN7600 ConvF(7.62, 7.62, 7.62)

Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 24.6 W/kg

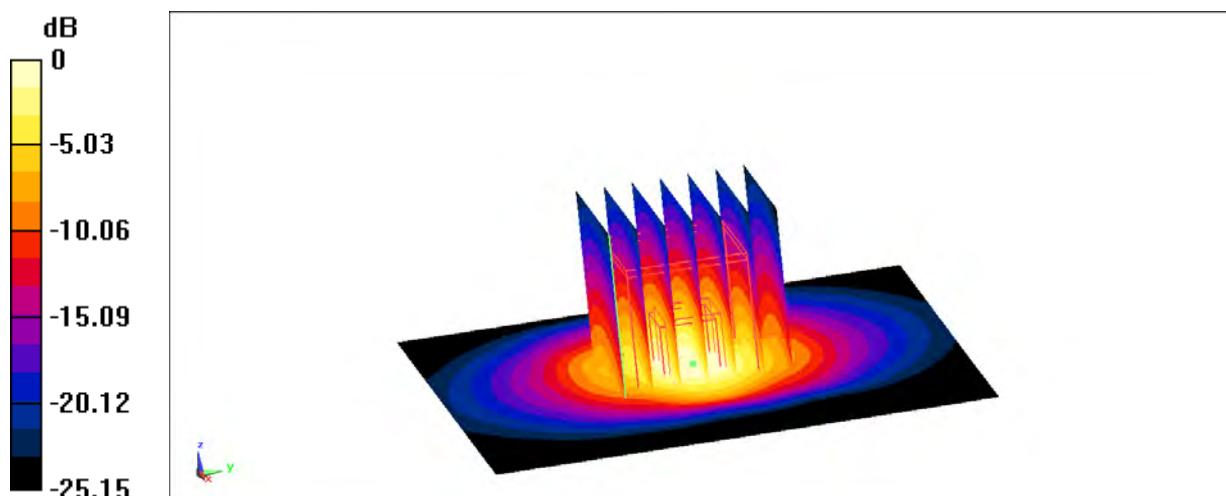
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 108.9 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 14 W/kg; SAR(10 g) = 6.16 W/kg

Maximum value of SAR (measured) = 24.3 W/kg



$$0 \text{ dB} = 24.3 \text{ W/kg} = 13.86 \text{ dBW/kg}$$

3300MHz

Date: 10/20/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 3300$ MHz; $\sigma = 2.629$ S/m; $\epsilon_r = 39.42$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 3300 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.34, 7.34, 7.34)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

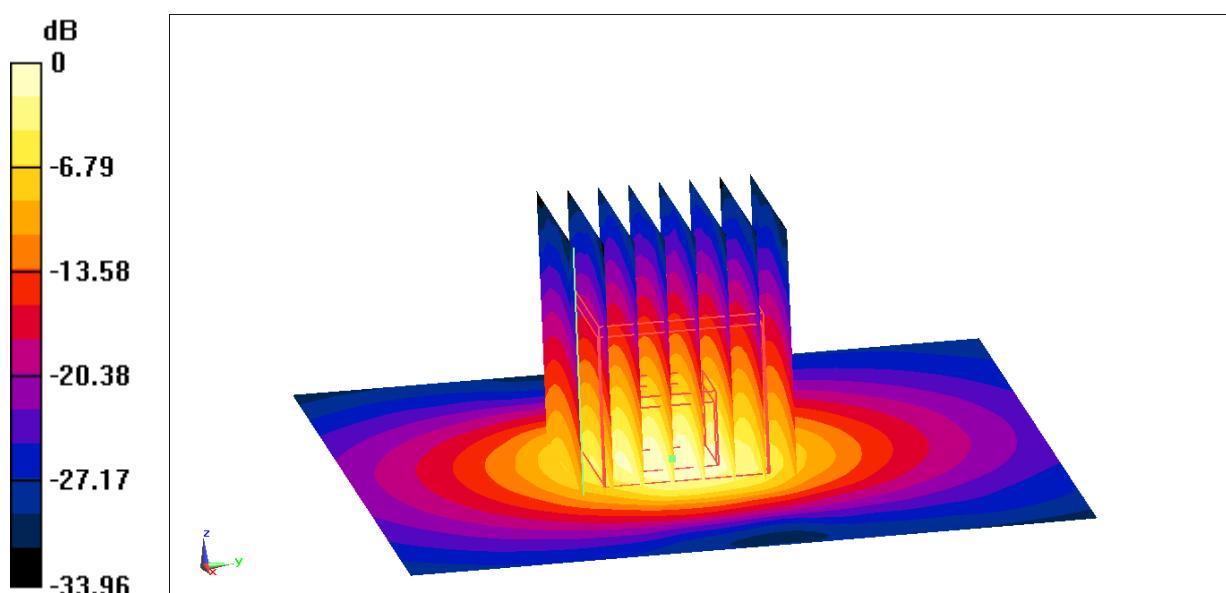
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.41 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 6.5 W/kg; SAR(10 g) = 2.48 W/kg

Maximum value of SAR (measured) = 12.2 W/kg



$$0 \text{ dB} = 12.2 \text{ W/kg} = 10.86 \text{ dBW/kg}$$

3300MHz

Date: 10/11/2022

Electronics: DAE4 Sn777

Medium: HSL3300

Medium parameters used: $f = 3300$ MHz; $\sigma = 2.76$ S/m; $\epsilon_r = 38.83$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 3300 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.34, 7.34, 7.34)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 12.7 W/kg

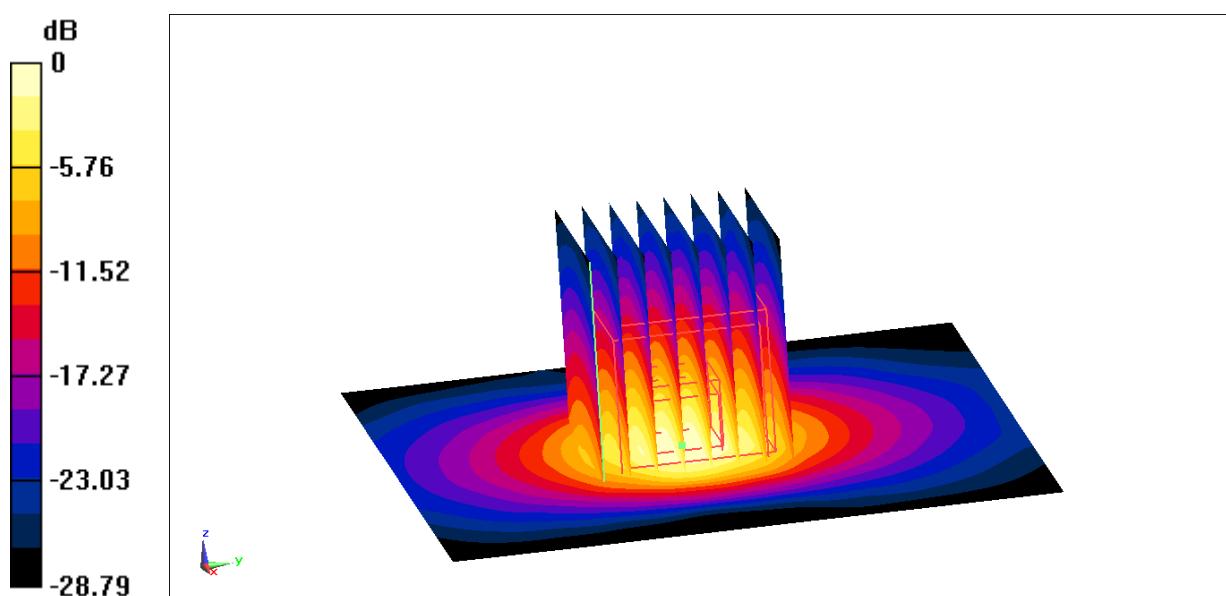
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.78 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 6.69 W/kg; SAR(10 g) = 2.64 W/kg

Maximum value of SAR (measured) = 12.0 W/kg



$$0 \text{ dB} = 12.0 \text{ W/kg} = 10.79 \text{ dBW/kg}$$

3500MHz

Date: 10/20/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.81$ S/m; $\epsilon_r = 39.03$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 3500 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.05, 7.05, 7.05)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 13.2 W/kg

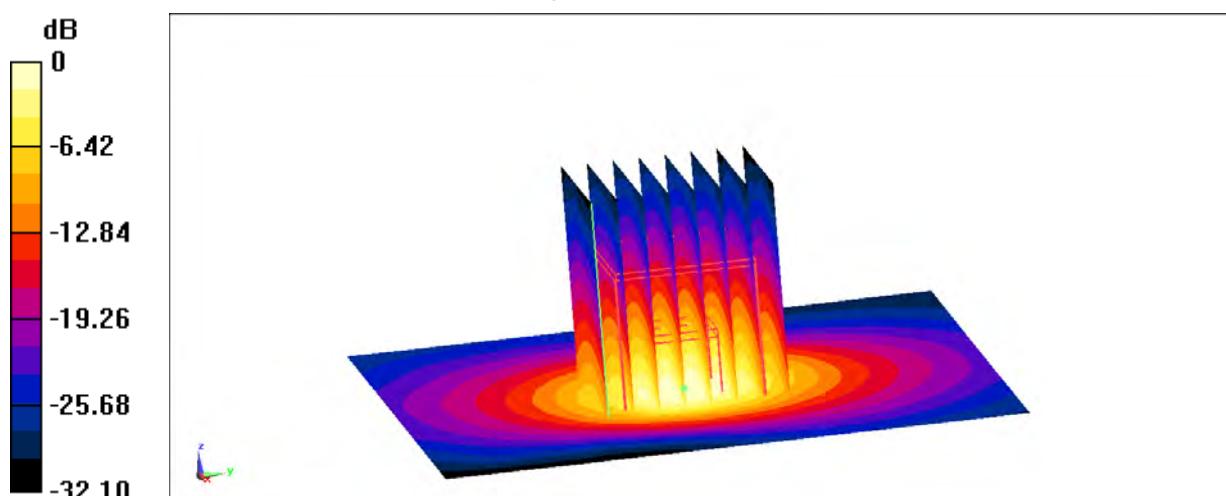
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.26 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 6.62 W/kg; SAR(10 g) = 2.5 W/kg

Maximum value of SAR (measured) = 12.8 W/kg



0 dB = 12.8 W/kg = 11.07 dBW/kg

3500MHz

Date: 10/11/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.95$ S/m; $\epsilon_r = 38.44$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 3500 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(7.05, 7.05, 7.05)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 12.8 W/kg

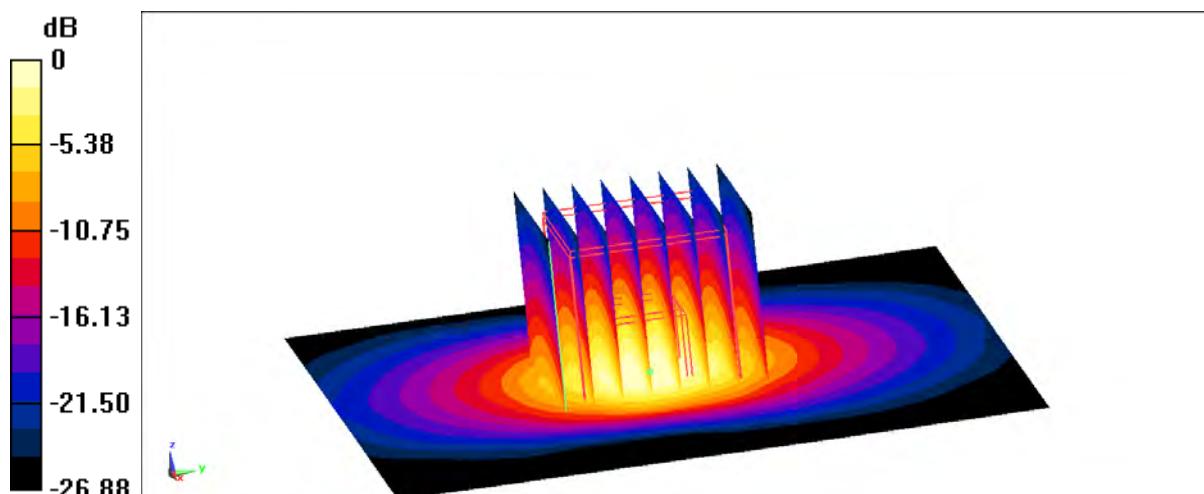
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.19 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 6.68 W/kg; SAR(10 g) = 2.54 W/kg

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg

3700MHz

Date: 10/20/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 3700$ MHz; $\sigma = 2.989$ S/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 3700 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(6.78, 6.78, 6.78)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 13.6 W/kg

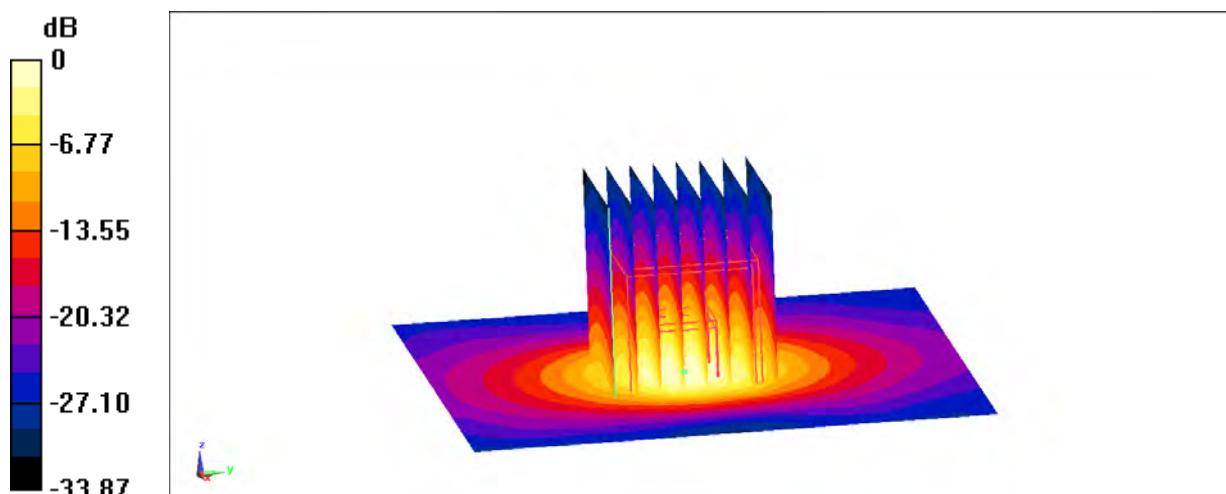
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.92 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 6.63 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 12.9 W/kg



$$0 \text{ dB} = 12.9 \text{ W/kg} = 11.11 \text{ dBW/kg}$$

3900MHz

Date: 10/20/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 3900 \text{ MHz}$; $\sigma = 3.17 \text{ S/m}$; $\epsilon_r = 38.37$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 3900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(6.68, 6.68, 6.68)

Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 14.2 W/kg

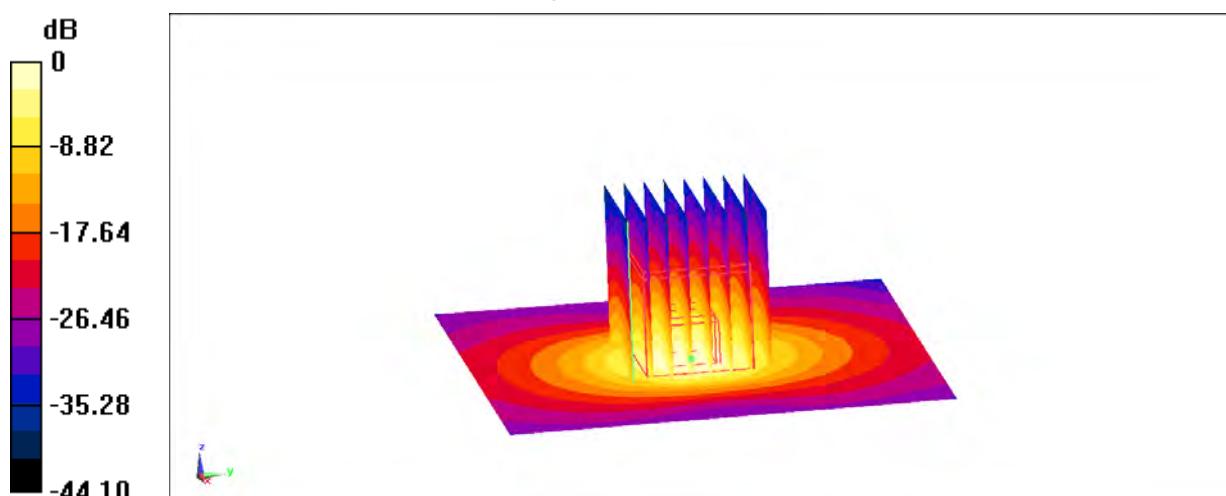
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 70.80 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 6.79 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.6 W/kg = 11.34 dBW/kg

5250MHz

Date: 10/14/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.588$ S/m; $\epsilon_r = 35.8$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(5.59, 5.59, 5.59)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.7 W/kg

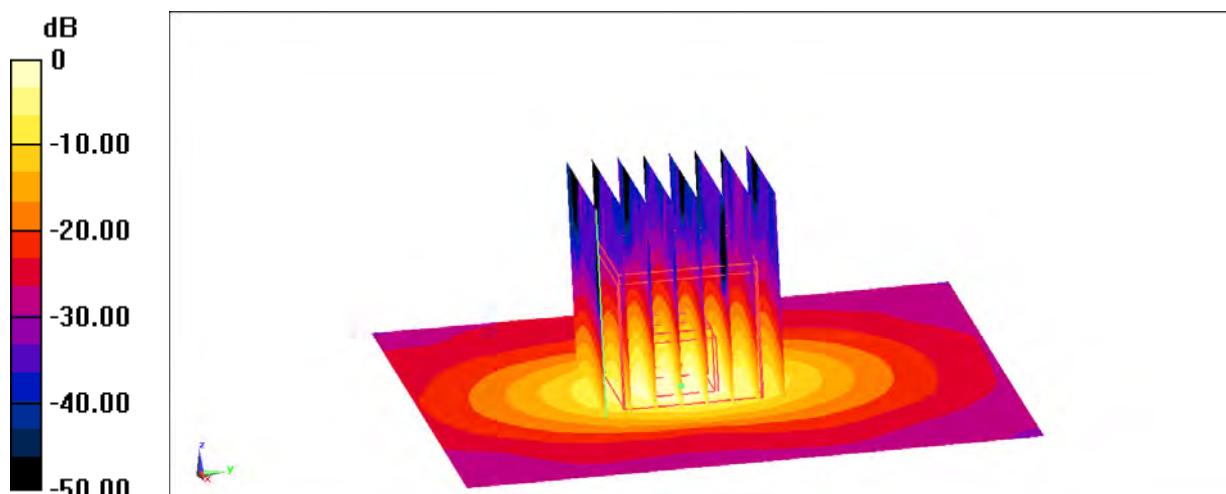
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.33 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 7.84 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg = 12.72 dBW/kg

5600MHz

Date: 10/14/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.965$ S/m; $\epsilon_r = 35.22$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(5.13, 5.13, 5.13)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 20.7 W/kg

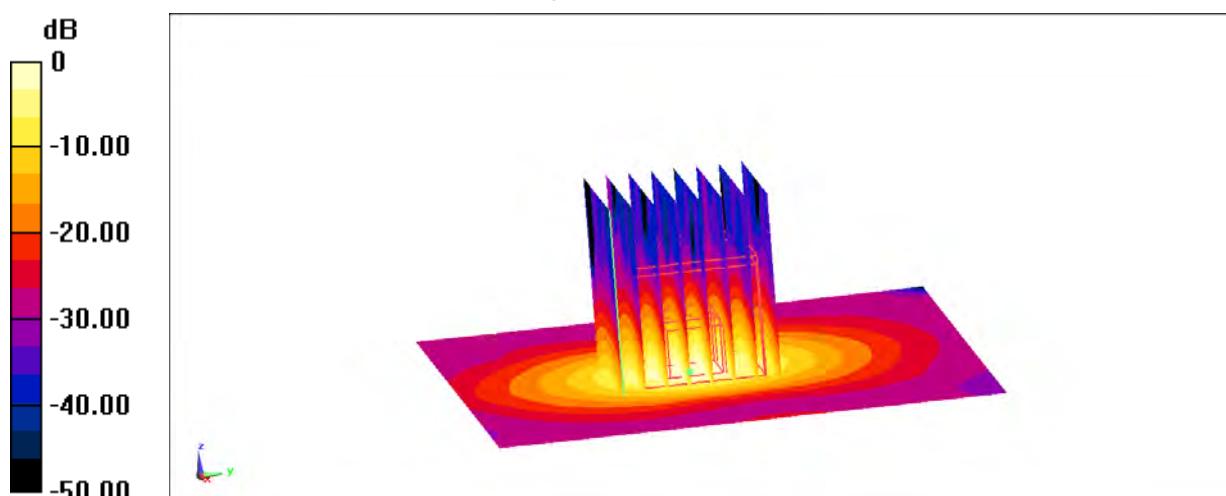
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.75 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 37.5 W/kg

SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

5750MHz

Date: 10/14/2022

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.118$ S/m; $\epsilon_r = 34.99$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7600 ConvF(5.16, 5.16, 5.16)

Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 20.1 W/kg

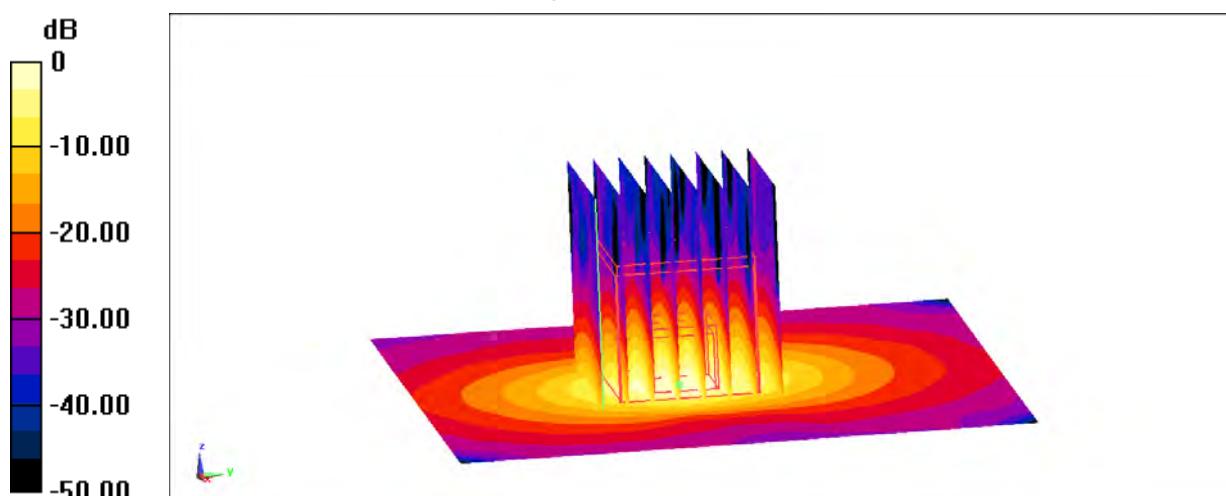
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.60 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 36.9 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.18 W/kg

Maximum value of SAR (measured) = 19.5 W/kg



$$0 \text{ dB} = 19.5 \text{ W/kg} = 12.90 \text{ dBW/kg}$$

750 MHz

Date: 10/4/2022

Electronics: DAE4 Sn549

Medium: Head 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 41.71$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 59.41 V/m; Power Drift = 0.04

Fast SAR: SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.37 W/kg

Maximum value of SAR (interpolated) = 2.77 W/kg

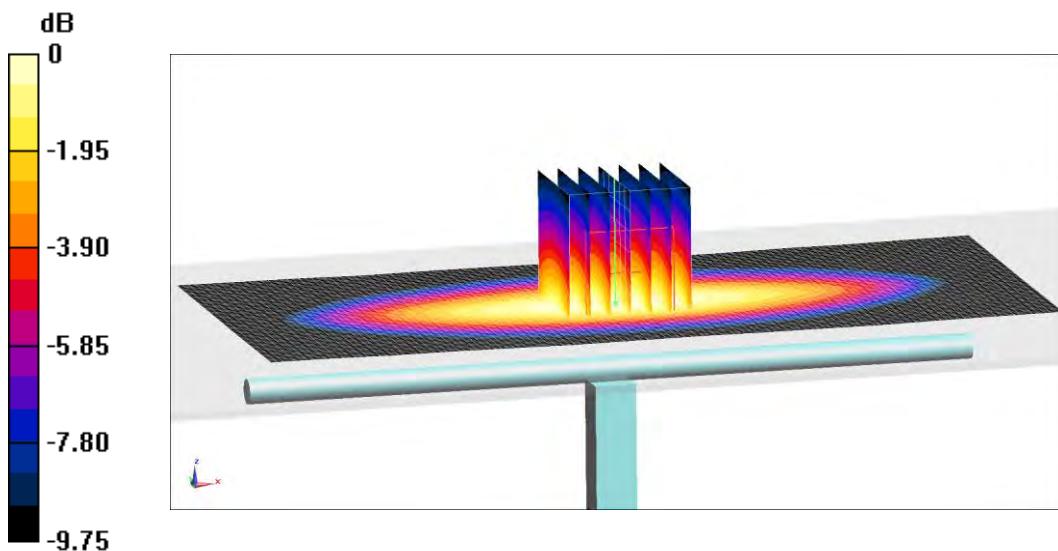
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.41 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.4 W/kg

Maximum value of SAR (measured) = 2.87 W/kg



$$0 \text{ dB} = 2.87 \text{ W/kg} = 4.58 \text{ dB W/kg}$$

validation 750 MHz 250mW

750 MHz

Date: 10/5/2022

Electronics: DAE4 Sn549

Medium: Head 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.874 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.26,10.26,10.26)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 58.79 V/m; Power Drift = 0.05

Fast SAR: SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.39 W/kg

Maximum value of SAR (interpolated) = 2.83 W/kg

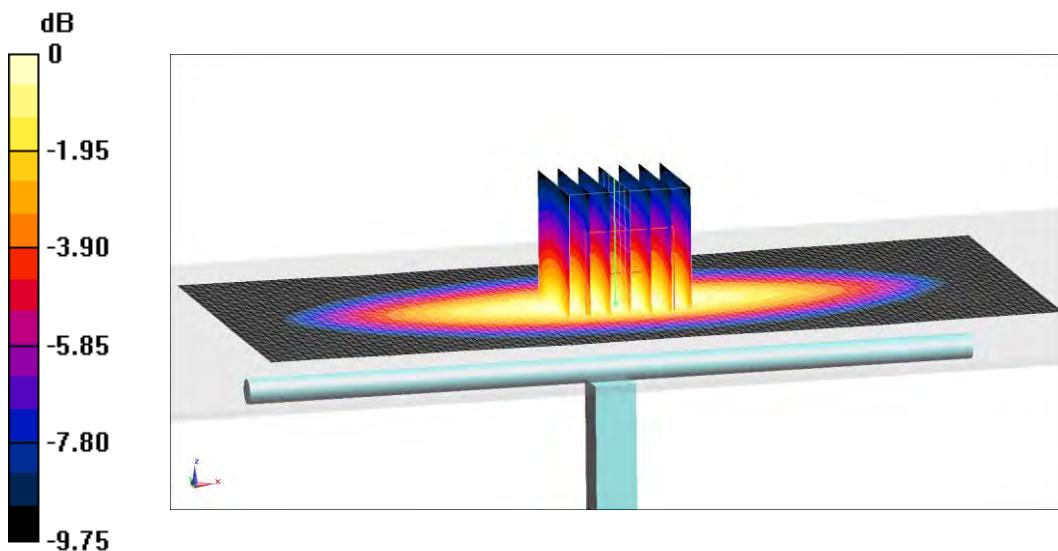
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.79 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.38 W/kg

Maximum value of SAR (measured) = 2.93 W/kg



$$0 \text{ dB} = 2.93 \text{ W/kg} = 4.67 \text{ dB W/kg}$$

validation 750 MHz 250mW

835 MHz

Date: 10/6/2022

Electronics: DAE4 Sn549

Medium: Head 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.908 \text{ mho/m}$; $\epsilon_r = 41.26$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 64.26 V/m ; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.59 W/kg

Maximum value of SAR (interpolated) = 3.18 W/kg

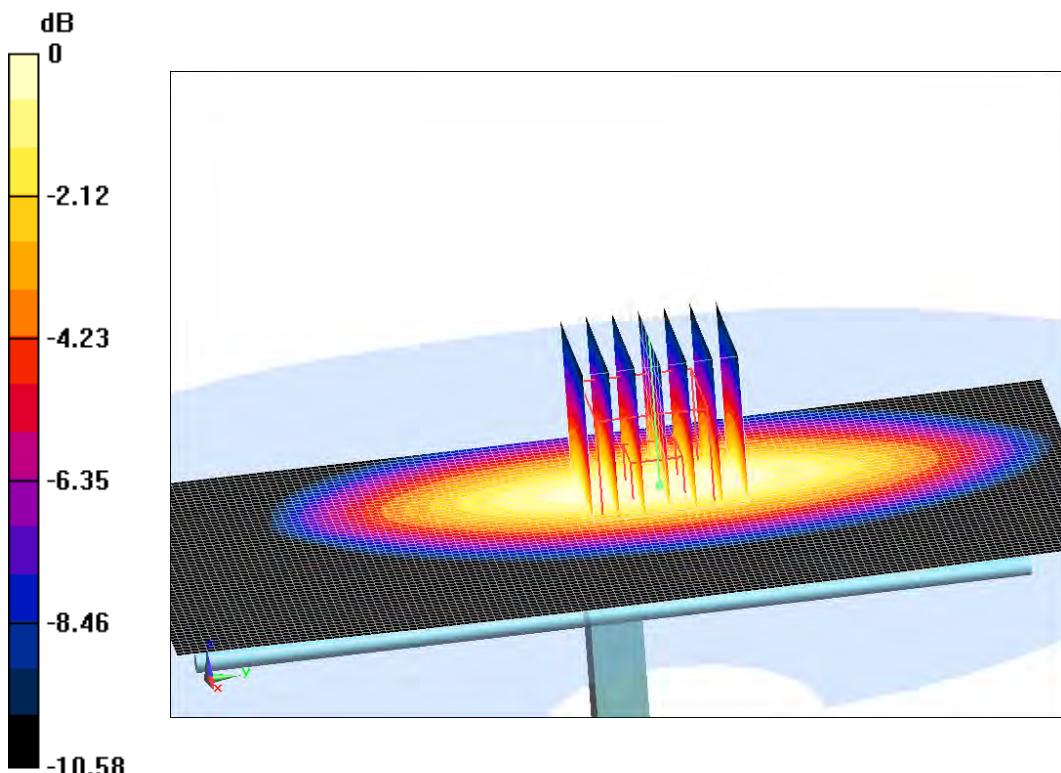
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 64.26 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.59 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 3.25 W/kg



$0 \text{ dB} = 3.25 \text{ W/kg} = 5.12 \text{ dB W/kg}$

validation 835 MHz 250mW

835 MHz

Date: 10/7/2022

Electronics: DAE4 Sn549

Medium: Head 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.901 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(9.96,9.96,9.96)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 63.54 V/m ; Power Drift = 0.04

Fast SAR: $\text{SAR}(1 \text{ g}) = 2.4 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 1.55 \text{ W/kg}$

Maximum value of SAR (interpolated) = 3.24 W/kg

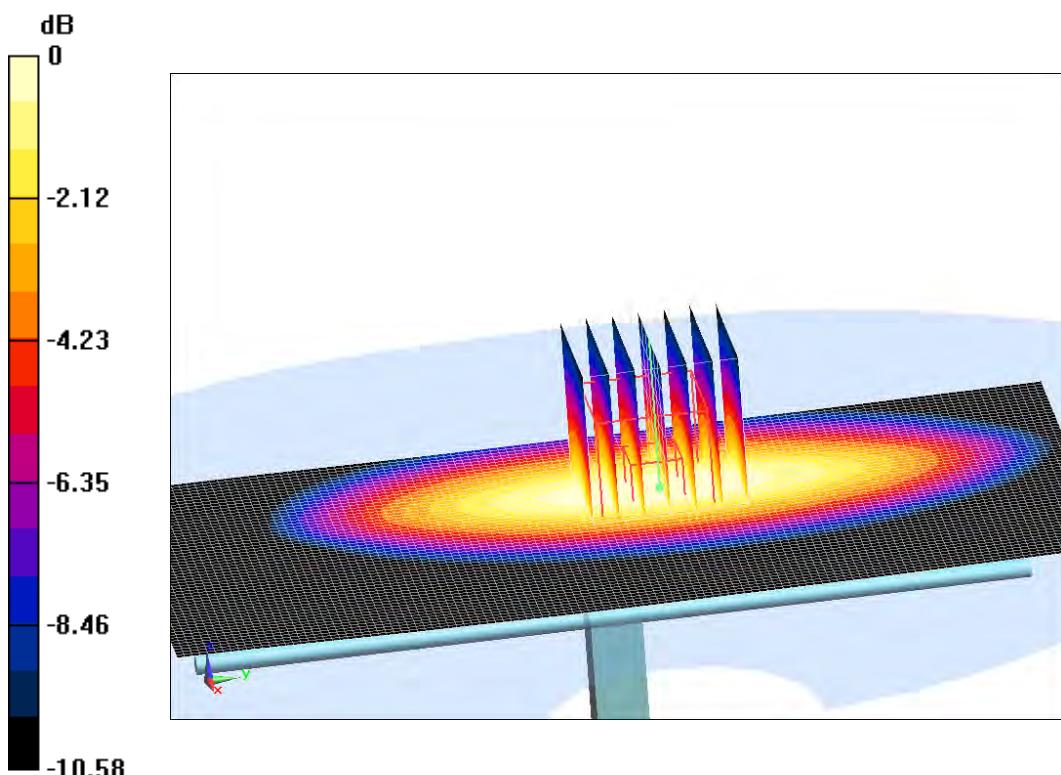
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 63.54 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 3.3 W/kg



$$0 \text{ dB} = 3.3 \text{ W/kg} = 5.19 \text{ dB W/kg}$$

validation 835 MHz 250mW

1750 MHz

Date: 10/8/2022

Electronics: DAE4 Sn549

Medium: Head 1750 MHz

Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.68$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.64,8.64,8.64)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 104.5 V/m; Power Drift = 0.06

Fast SAR: SAR(1 g) = 9 W/kg; SAR(10 g) = 4.78 W/kg

Maximum value of SAR (interpolated) = 14.27 W/kg

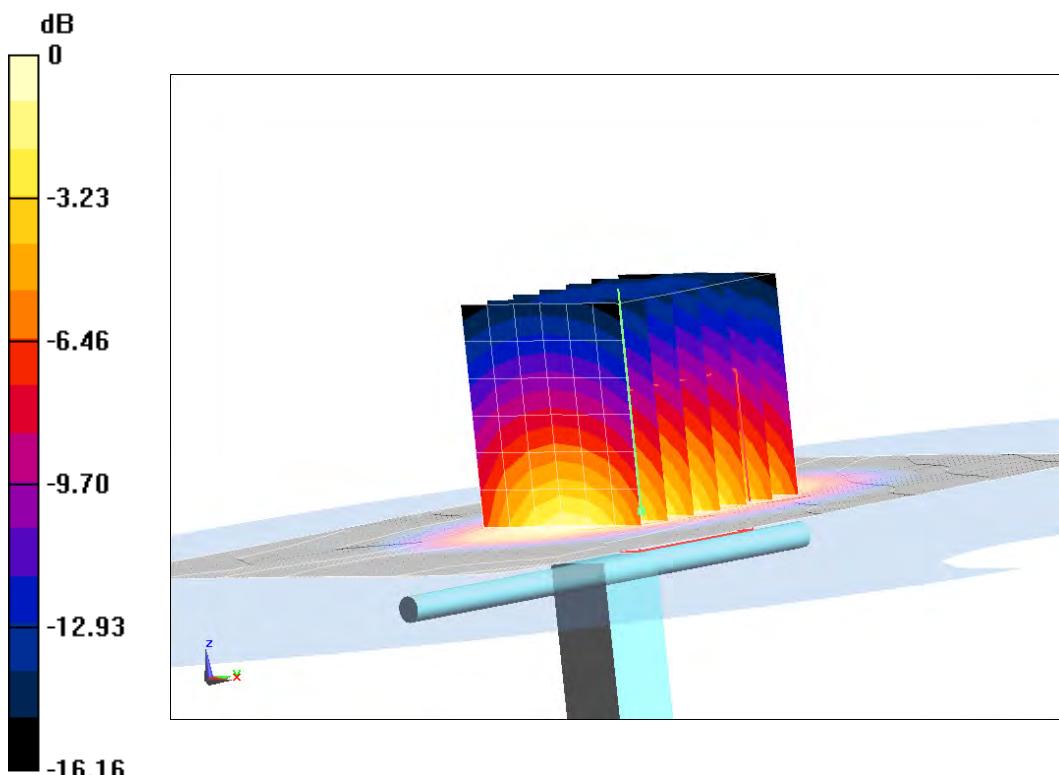
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 104.5 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 16.73 W/kg

SAR(1 g) = 8.98 W/kg; SAR(10 g) = 4.8 W/kg

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



$$0 \text{ dB} = 14.1 \text{ W/kg} = 11.49 \text{ dB W/kg}$$

validation 1750 MHz 250mW

1900 MHz

Date: 10/9/2022

Electronics: DAE4 Sn549

Medium: Head 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 39.55$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 107.75 V/m; Power Drift = 0.02

Fast SAR: $\text{SAR}(1 \text{ g}) = 9.93 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 5.15 \text{ W/kg}$

Maximum value of SAR (interpolated) = 15.31 W/kg

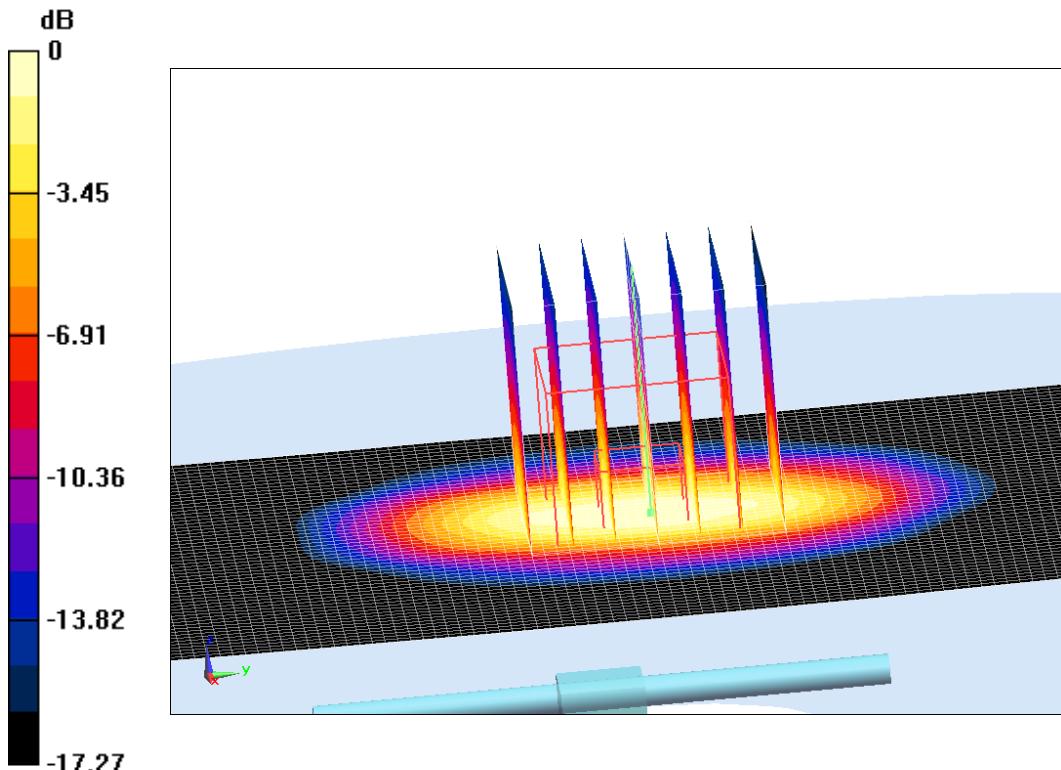
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 107.75 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.12 W/kg

SAR(1 g) = 10.05 W/kg; SAR(10 g) = 5.1 W/kg

Maximum value of SAR (measured) = 15.11 W/kg



$$0 \text{ dB} = 15.11 \text{ W/kg} = 11.79 \text{ dB W/kg}$$

validation 1900 MHz 250mW

1900 MHz

Date: 10/10/2022

Electronics: DAE4 Sn549

Medium: Head 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.388 \text{ mho/m}$; $\epsilon_r = 39.85$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.52,8.52,8.52)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 109.95 V/m; Power Drift = -0.08

Fast SAR: $\text{SAR}(1 \text{ g}) = 9.83 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 5.08 \text{ W/kg}$

Maximum value of SAR (interpolated) = 15.22 W/kg

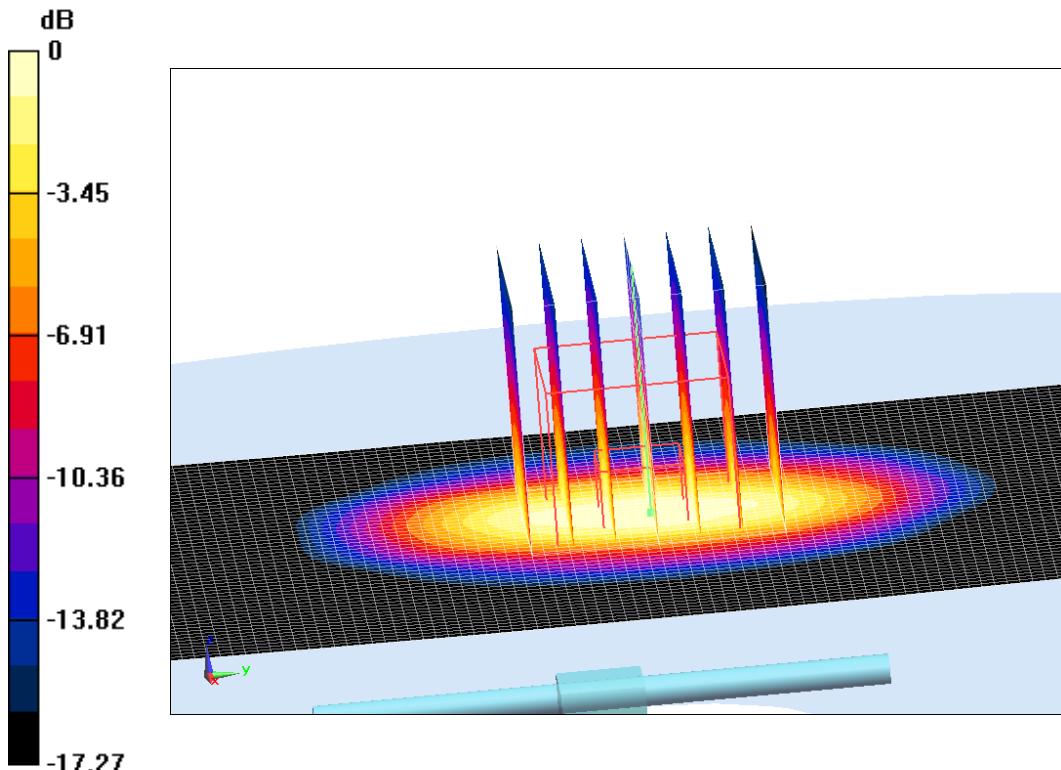
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 109.95 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 18.08 W/kg

SAR(1 g) = 10.08 W/kg; SAR(10 g) = 5.24 W/kg

Maximum value of SAR (measured) = 15.49 W/kg



0 dB = 15.49 W/kg = 11.9 dB W/kg

validation 1900 MHz 250mW

2300 MHz

Date: 10/11/2022

Electronics: DAE4 Sn549

Medium: Head 2300 MHz

Medium parameters used: $f = 2300 \text{ MHz}$; $\sigma = 1.675 \text{ mho/m}$; $\epsilon_r = 40.07$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 2300 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.36,8.36,8.36)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Reference Value = 117.41 V/m; Power Drift = -0.05

Fast SAR: $\text{SAR}(1 \text{ g}) = 12.31 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 5.88 \text{ W/kg}$

Maximum value of SAR (interpolated) = 20.29 W/kg

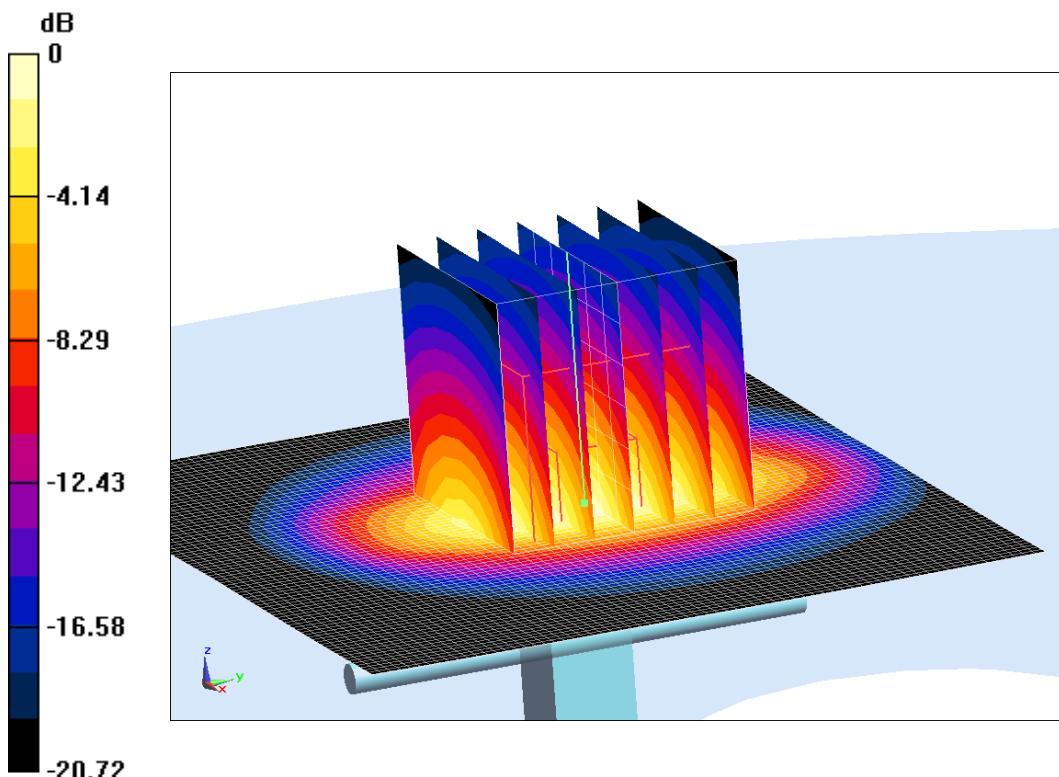
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 117.41 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 23.7 W/kg

SAR(1 g) = 12.62 W/kg; SAR(10 g) = 5.99 W/kg

Maximum value of SAR (measured) = 19.79 W/kg



0 dB = 19.79 W/kg = 12.96 dB W/kg

validation 2300 MHz 250mW

2600 MHz

Date: 10/12/2022

Electronics: DAE4 Sn549

Medium: Head 2600 MHz

Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.959 \text{ mho/m}$; $\epsilon_r = 39.53$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(7.64,7.64,7.64)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Reference Value = 119.72 V/m; Power Drift = -0.02

Fast SAR: SAR(1 g) = 14.08 W/kg; SAR(10 g) = 6.33 W/kg

Maximum value of SAR (interpolated) = 24.69 W/kg

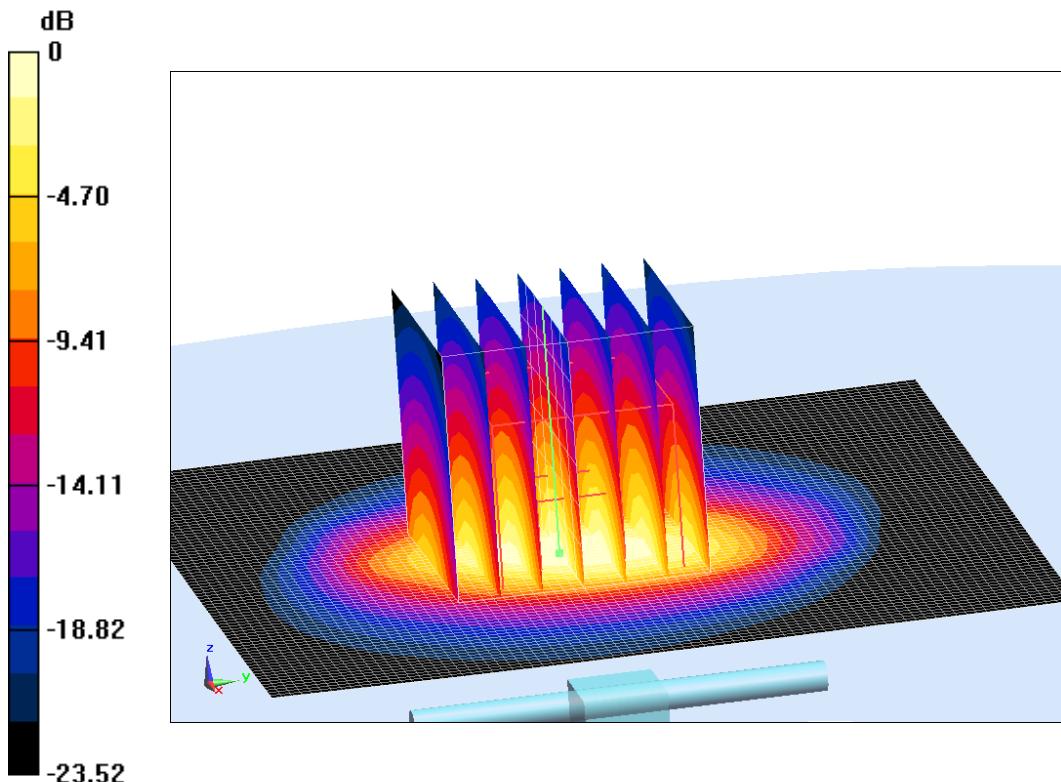
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 119.72 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 29.44 W/kg

SAR(1 g) = 14.53 W/kg; SAR(10 g) = 6.2 W/kg

Maximum value of SAR (measured) = 24.19 W/kg



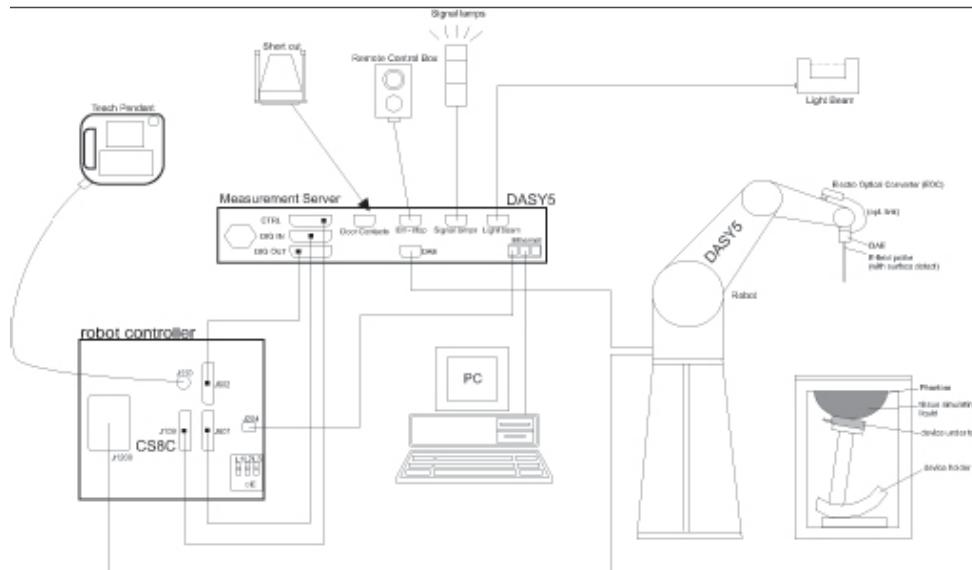
0 dB = 24.19 W/kg = 13.84 dB W/kg

validation 2600 MHz 250mW

ANNEX C SAR Measurement Setup

C.1 Measurement Set-up

The Dasy4 or DASY5 system for performing compliance tests is illustrated above graphically. This system consists of the following items:



Picture C.1SAR Lab Test Measurement Set-up

- A standard high precision 6-axis robot (StäubliTX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY4 or DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

C.2 Dasy4 or DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY4 or DASY5 software reads the reflection during a software approach and looks for the maximum using 2nd ord curve fitting. The approach is stopped at reaching the maximum.

Probe Specifications:

Model:	ES3DV3, EX3DV4
Frequency	10MHz — 6.0GHz(EX3DV4)
Range:	10MHz — 4GHz(ES3DV3)
Calibration:	In head and body simulating tissue at Frequencies from 835 up to 5800MHz
Linearity:	± 0.2 dB(30 MHz to 6 GHz) for EX3DV4 ± 0.2 dB(30 MHz to 4 GHz) for ES3DV3
Dynamic Range:	10 mW/kg — 100W/kg
Probe Length:	330 mm
Probe Tip	
Length:	20 mm
Body Diameter:	12 mm
Tip Diameter:	2.5 mm (3.9 mm for ES3DV3)
Tip-Center:	1 mm (2.0mm for ES3DV3)
Application:	SAR Dosimetry Testing Compliance tests of mobile phones Dosimetry in strong gradient fields



Picture C.2 Near-field Probe



Picture C.3 E-field Probe

C.3 E-field Probe Calibration

Each E-Probe/Probe Amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an RF Signal generator, TEM cell, and RF Power Meter.

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or

other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm².

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:

Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

$$SAR = \frac{|E|^2 \cdot \sigma}{\rho}$$

Where:

σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m³).

C.4 Other Test Equipment

C.4.1 Data Acquisition Electronics(DAE)

The data acquisition electronics consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of the DAE is 200 MΩ; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



PictureC.4: DAE

C.4.2 Robot

The SPEAG DASY system uses the high precision robots (DASY4: RX90XL; DASY5: RX160L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchron motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Picture C.5DASY 4



Picture C.6DASY 5

C.4.3 Measurement Server

The Measurement server is based on a PC/104 CPU broad with CPU (dasy4: 166 MHz, Intel Pentium; DASY5: 400 MHz, Intel Celeron), chipdisk (DASY4: 32 MB; DASY5: 128MB), RAM (DASY4: 64 MB, DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O broad, which is directly connected to the PC/104 bus of the CPU broad.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.



Picture C.7 Server for DASY 4



Picture C.8 Server for DASY 5

C.4.4 Device Holder for Phantom

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

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

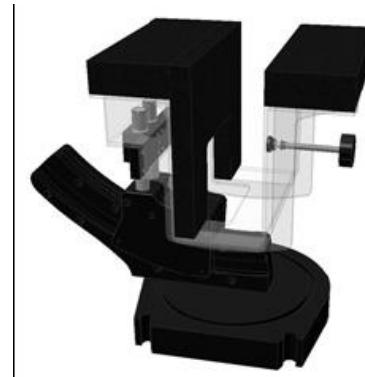
The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

<Laptop Extension Kit>

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



Picture C.9-1: Device Holder



Picture C.9-2: Laptop Extension Kit

C.4.5 Phantom

The SAM Twin Phantom V4.0 is constructed of a fiberglass shell integrated in a table. The shape of the shell is based on data from an anatomical study designed to

Represent the 90th percentile of the population. The phantom enables the dissymmetric evaluation of SAR for both left and right handed handset usage, as well as body-worn usage using the flat phantom region. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. The shell phantom has a 2mm shell thickness (except the ear region where shell thickness increases to 6 mm).

Shell Thickness: 2±0. 2 mm

Filling Volume: Approx. 25 liters

Dimensions: 810 x 1000 x 500 mm (H x L x W)

Available: Special

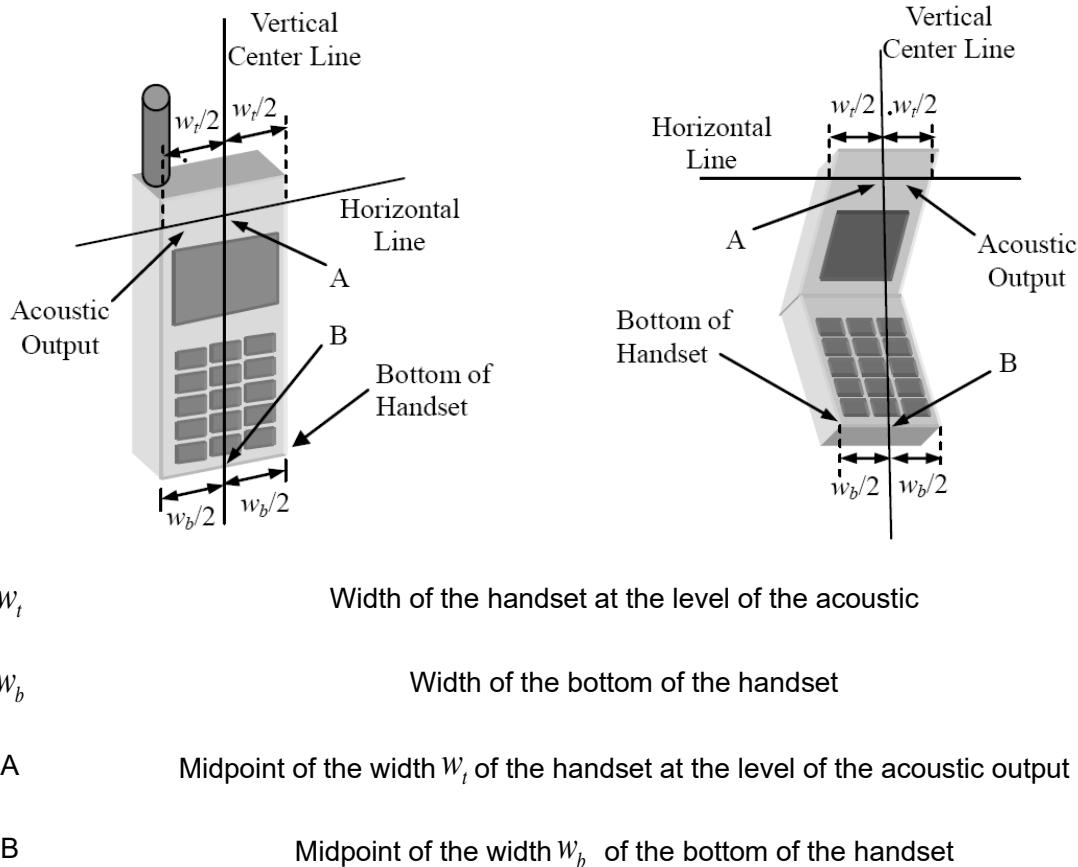


Picture C.10: SAM Twin Phantom

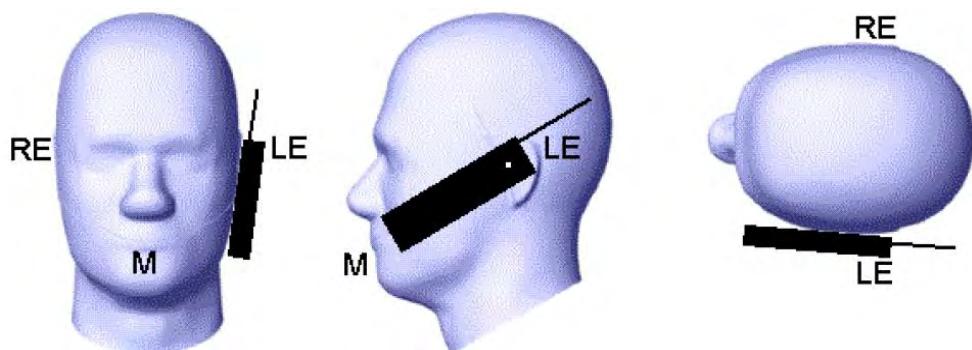
ANNEX D Position of the wireless device in relation to the phantom

D.1 General considerations

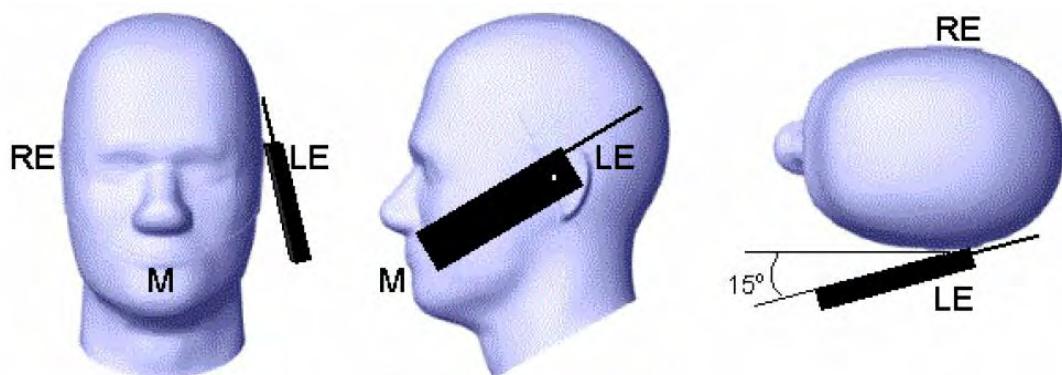
This standard specifies two handset test positions against the head phantom – the “cheek” position and the “tilt” position.



Picture D.1-a Typical “fixed” case handset Picture D.1-b Typical “clam-shell” case handset



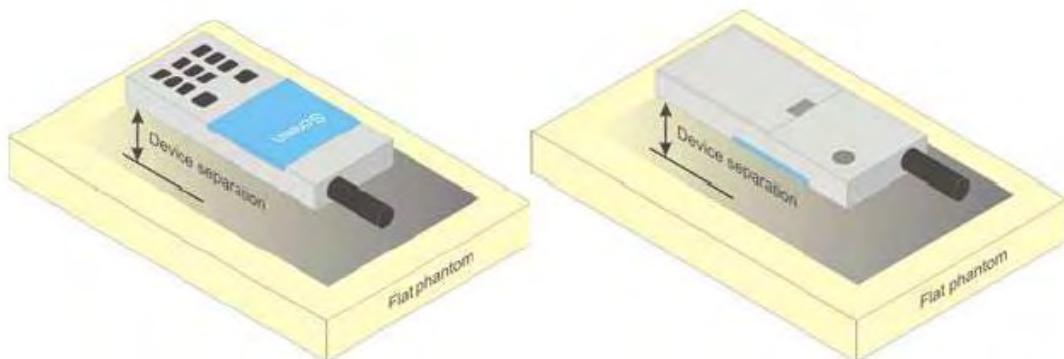
Picture D.2 Cheek position of the wireless device on the left side of SAM



Picture D.3 Tilt position of the wireless device on the left side of SAM

D.2 Body-worn device

A typical example of a body-worn device is a mobile phone, wireless enabled PDA or other battery operated wireless device with the ability to transmit while mounted on a person's body using a carry accessory approved by the wireless device manufacturer.

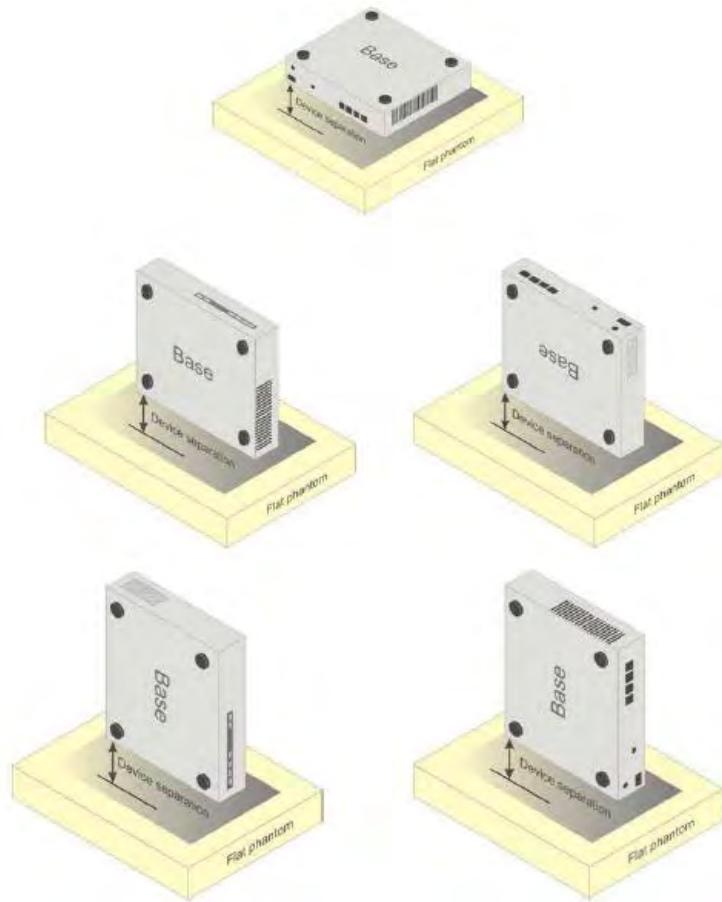


Picture D.4 Test positions for body-worn devices

D.3 Desktop device

A typical example of a desktop device is a wireless enabled desktop computer placed on a table or desk when used.

The DUT shall be positioned at the distance and in the orientation to the phantom that corresponds to the intended use as specified by the manufacturer in the user instructions. For devices that employ an external antenna with variable positions, tests shall be performed for all antenna positions specified. Picture 8.5 show positions for desktop device SAR tests. If the intended use is not specified, the device shall be tested directly against the flat phantom.



Picture D.5 Test positions for desktop devices

D.4 DUT Setup Photos



Picture D.6

ANNEX E Equivalent Media Recipes

The liquid used for the frequency range of 800-3000 MHz consisted of water, sugar, salt, preventol, glycol monobutyl and Cellulose. The liquid has been previously proven to be suited for worst-case. The Table E.1 shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209.

TableE.1: Composition of the Tissue Equivalent Matter

Frequency (MHz)	835Head	835Body	1900 Head	1900 Body	2450 Head	2450 Body	5800 Head	5800 Body
Ingredients (% by weight)								
Water	41.45	52.5	55.242	69.91	58.79	72.60	65.53	65.53
Sugar	56.0	45.0	\	\	\	\	\	\
Salt	1.45	1.4	0.306	0.13	0.06	0.18	\	\
Preventol	0.1	0.1	\	\	\	\	\	\
Cellulose	1.0	1.0	\	\	\	\	\	\
Glycol Monobutyl	\	\	44.452	29.96	41.15	27.22	\	\
Diethylenglycol monohexylether	\	\	\	\	\	\	17.24	17.24
Triton X-100	\	\	\	\	\	\	17.24	17.24
Dielectric Parameters Target Value	$\epsilon=41.5$ $\sigma=0.90$	$\epsilon=55.2$ $\sigma=0.97$	$\epsilon=40.0$ $\sigma=1.40$	$\epsilon=53.3$ $\sigma=1.52$	$\epsilon=39.2$ $\sigma=1.80$	$\epsilon=52.7$ $\sigma=1.95$	$\epsilon=35.3$ $\sigma=5.27$	$\epsilon=48.2$ $\sigma=6.00$

Note: There are a little adjustment respectively for 750, 1750, 2600, 5200, 5300 and 5600 based on the recipe of closest frequency in table E.1.

ANNEX F System Validation

The SAR system must be validated against its performance specifications before it is deployed. When SAR probes, system components or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such components.

Table F.1: System Validation for 7548

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
7548	Head 750MHz	July.15,2020	750 MHz	OK
7548	Head 850MHz	July.15,2020	835 MHz	OK
7548	Head 900MHz	July.15,2020	900 MHz	OK
7548	Head 1750MHz	July.15,2020	1750 MHz	OK
7548	Head 1810MHz	July.15,2020	1810 MHz	OK
7548	Head 1900MHz	July.16,2020	1900 MHz	OK
7548	Head 2000MHz	July.16,2020	2000 MHz	OK
7548	Head 2100MHz	July.16,2020	2100 MHz	OK
7548	Head 2300MHz	July.16,2020	2300 MHz	OK
7548	Head 2450MHz	July.16,2020	2450 MHz	OK
7548	Head 2600MHz	July.17,2020	2600 MHz	OK
7548	Head 3500MHz	July.17,2020	3500 MHz	OK
7548	Head 3700MHz	July.17,2020	3700 MHz	OK
7548	Head 5200MHz	July.17,2020	5250 MHz	OK
7548	Head 5500MHz	July.17,2020	5600 MHz	OK
7548	Head 5800MHz	July.17,2020	5800 MHz	OK

ANNEX G Probe Calibration Certificate

Probe 7464 Calibration Certificate

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
 The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client **CTTL-BJ (Auden)**

Certificate No: **EX3-7464_Jan22**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7464**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5,
 QA CAL-25.v7
 Calibration procedure for dosimetric E-field probes**

Calibration date: **January 26, 2022**

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 (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	09-Apr-21 (No. 217-03343)	Apr-22
DAE4	SN: 660	13-Oct-21 (No. DAE4-660_Oct21)	Oct-22
Reference Probe ES3DV2	SN: 3013	27-Dec-21 (No. ES3-3013_Dec21)	Dec-22
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22

Calibrated by:	Name	Function	Signature
	Jeton Kastrati	Laboratory Technician	
Approved by:	Sven Kühn	Deputy Manager	

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

Issued: January 28, 2022

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Glossary:

TSL	tissue simulating liquid
NORM x,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORM x,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- $NORMx,y,z$: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). $NORMx,y,z$ are only intermediate values, i.e., the uncertainties of $NORMx,y,z$ does not affect the E^2 -field uncertainty inside TSL (see below ConvF).
- $NORM(f)x,y,z = NORMx,y,z * frequency_response$ (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- $DCPx,y,z$: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR : PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- $Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D$ are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters*: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to $NORMx,y,z * ConvF$ whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the $NORMx$ (no uncertainty required).