

WCDMA Band 5 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
126.	RMC 12.2k	Back Side	4132	826.4	23.57	24.0	1.104	0.232	0.256
127.	RMC 12.2k	Front Side	4132	826.4	23.57	24.0	1.104	0.208	0.230
128.	RMC 12.2k	Right side	4132	826.4	23.57	24.0	1.104	0.205	0.226
129.	RMC 12.2k	Left side	4132	826.4	23.57	24.0	1.104	0.123	0.136
130.	RMC 12.2k	Bottom side	4132	826.4	23.57	24.0	1.104	0.146	0.161

LTE Band 2–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Freque ncy	Output Power	Rated Limit	Scaling	SAR1g	Scaled
	Modulation, Bandwidth, RB	Body	MHz	(dBm)	(dBm)	Factor	(W/kg)	SAR1g (W/kg)
131.	QPSK 20MHz 1RB	Back Side	1860	25.19	25.5	1.074	0.173	0.186
132.	QPSK 20MHz 1RB	Front Side	1860	25.19	25.5	1.074	0.108	0.116
133.	QPSK 20MHz 1RB	Left side	1860	25.19	25.5	1.074	0.022	0.024
134.	QPSK 20MHz 1RB	Top side	1860	25.19	25.5	1.074	0.112	0.120
135.	QPSK 20MHz 50%RB	Back Side	1900	24.05	24.5	1.109	0.136	0.151
136.	QPSK 20MHz 50%RB	Front Side	1900	24.05	24.5	1.109	0.085	0.094
137.	QPSK 20MHz 50%RB	Left side	1900	24.05	24.5	1.109	0.016	0.018
138.	QPSK 20MHz 50%RB	Top side	1900	24.05	24.5	1.109	0.094	0.104

LTE Band 4–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position Body	Freque ncy	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
139.	QPSK 20MHz 1RB	Back Side	1720	24.65	25.0	1.084	0.205	0.222
140.	QPSK 20MHz 1RB	Front Side	1720	24.65	25.0	1.084	0.106	0.115
141.	QPSK 20MHz 1RB	Left side	1720	24.65	25.0	1.084	0.121	0.131
142.	QPSK 20MHz 1RB	Top side	1720	24.65	25.0	1.084	0.118	0.128
143.	QPSK 20MHz 50%RB	Back Side	1720	23.46	23.5	1.009	0.158	0.159
144.	QPSK 20MHz 50%RB	Front Side	1720	23.46	23.5	1.009	0.077	0.078
145.	QPSK 20MHz 50%RB	Left side	1720	23.46	23.5	1.009	0.089	0.090
146.	QPSK 20MHz 50%RB	Top side	1720	23.46	23.5	1.009	0.084	0.085

LTE Band 5–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power	Rated Limit	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB	Body	MHz	(dBm)	(dBm)			
147.	QPSK 10MHz 1RB	Back Side	836.5	24.79	25.0	1.050	0.282	0.296
148.	QPSK 10MHz 1RB	Front Side	836.5	24.79	25.0	1.050	0.245	0.257

149.	QPSK 10MHz 1RB	Right side	836.5	24.79	25.0	1.050	0.204	0.214
150.	QPSK 10MHz 1RB	Left side	836.5	24.79	25.0	1.050	0.146	0.153
151.	QPSK 10MHz 1RB	Bottom side	836.5	24.79	25.0	1.050	0.168	0.176
152.	QPSK 10MHz 50%RB	Back Side	829.0	23.57	24.0	1.104	0.215	0.237
153.	QPSK 10MHz 50%RB	Front Side	829.0	23.57	24.0	1.104	0.198	0.219
154.	QPSK 10MHz 50%RB	Right side	829.0	23.57	24.0	1.104	0.151	0.167
155.	QPSK 10MHz 50%RB	Left side	829.0	23.57	24.0	1.104	0.104	0.115
156.	QPSK 10MHz 50%RB	Bottom side	829.0	23.57	24.0	1.104	0.116	0.128

LTE Band 7–Body SAR Test (Gap: 10mm)

Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
157.	QPSK 20MHz 1RB	Back Side	2510	24.79	25.0	1.050	0.361	0.379
158.	QPSK 20MHz 1RB	Front Side	2510	24.79	25.0	1.050	0.452	0.474
159.	QPSK 20MHz 1RB	Left side	2510	24.79	25.0	1.050	0.090	0.094
160.	QPSK 20MHz 1RB	Bottom side	2510	24.79	25.0	1.050	0.376	0.395
161.	QPSK 20MHz 50%RB	Back Side	2510	23.61	24.0	1.094	0.304	0.333
162.	QPSK 20MHz 50%RB	Front Side	2510	23.61	24.0	1.094	0.378	0.414
163.	QPSK 20MHz 50%RB	Left side	2510	23.61	24.0	1.094	0.076	0.083
164.	QPSK 20MHz 50%RB	Bottom side	2510	23.61	24.0	1.094	0.310	0.339

LTE Band 17–Body SAR Test (Gap: 10mm)

Plot No.	Mode	Test Position Body	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
165.	QPSK 10MHz 1RB	Back Side	709	24.89	25.0	1.026	0.310	0.318
166.	QPSK 10MHz 1RB	Front Side	709	24.89	25.0	1.026	0.335	0.344
167.	QPSK 10MHz 1RB	Right side	709	24.89	25.0	1.026	0.078	0.080
168.	QPSK 10MHz 1RB	Left side	709	24.89	25.0	1.026	0.067	0.069
169.	QPSK 10MHz 1RB	Bottom side	709	24.89	25.0	1.026	0.117	0.120
170.	QPSK 10MHz 50%RB	Back Side	709	23.82	24.0	1.042	0.271	0.282
171.	QPSK 10MHz 50%RB	Front Side	709	23.82	24.0	1.042	0.285	0.297
172.	QPSK 10MHz 50%RB	Right side	709	23.82	24.0	1.042	0.066	0.069
173.	QPSK 10MHz 50%RB	Left side	709	23.82	24.0	1.042	0.051	0.053
174.	QPSK 10MHz 50%RB	Bottom side	709	23.82	24.0	1.042	0.089	0.093

WLAN 2.4GHz –Body SAR Test									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
175.	802.11b	Back Side	01	2412	15.61	16.0	1.094	0.230	0.252
176.	802.11b	Front Side	01	2412	15.61	16.0	1.094	0.125	0.137
177.	802.11b	Right side	01	2412	15.61	16.0	1.094	0.067	0.073
178.	802.11b	Top side	01	2412	15.61	16.0	1.094	0.197	0.216

WLAN 5.2GHz –Body SAR Test									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
179.	802.11a	Back Side	48	5240	12.15	12.5	1.084	0.123	0.133
180.	802.11a	Front Side	48	5240	12.15	12.5	1.084	0.116	0.126
181.	802.11a	Right side	48	5240	12.15	12.5	1.084	0.132	0.143
182.	802.11a	Top side	48	5240	12.15	12.5	1.084	0.121	0.131

WLAN 5.8GHz –Body SAR Test									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
183.	802.11 n (HT40)	Back Side	151	5755	10.21	10.5	1.069	0.145	0.155
184.	802.11 n (HT40)	Front Side	151	5755	10.21	10.5	1.069	0.150	0.160
185.	802.11 n (HT40)	Right side	151	5755	10.21	10.5	1.069	0.138	0.148
186.	802.11 n (HT40)	Top side	151	5755	10.21	10.5	1.069	0.141	0.151

Remark: Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Head SAR	Body SAR
1	GSM(Voice/Data) + WLAN(2.4G)(Data)	Yes	Yes
2	WCDMA (Voice/Data)+ WLAN (2.4G)(Data)	Yes	Yes
3	LTE(Data) + WLAN (2.4G)(Data)	Yes	Yes
	GSM(Voice/Data) + Bluetooth(Data)	Yes	Yes
	WCDMA (Voice/Data) + Bluetooth(Data)	Yes	Yes
	LTE(Data) + Bluetooth(Data)	Yes	Yes
7	GSM(Voice/Data) + WLAN(5G)(Data)	Yes	Yes
8	WCDMA (Voice/Data)+ WLAN (5G)(Data)	Yes	Yes
9	LTE(Data) + WLAN (5G)(Data)	Yes	Yes

Remark:

1. GSM ,WCDMA and LTE share the same antenna, and cannot transmit simultaneously.
2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
3. According to the KDB 447498 D01 v06, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})}/x] \text{ W/kg for test separation distances } \leq 50 \text{ mm};$$
 where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01 v06 as below:

Bluetooth:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
8	6.31	5/10	2.480	7.5	0.265	0.133

4. The maximum SAR summation is calculated based on the same configuration and test position.

Head SAR**WWAN and WLAN**

	WWAN		WLAN(2.4G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.290	0.200	0.490
Right Tilted	GSM	0.137	0.182	0.319
Left Cheek	GSM	0.256	0.337	0.593
Left Tilted	GSM	0.120	0.314	0.434
Right Cheek	WCDMA	0.588	0.200	0.788
Right Tilted	WCDMA	0.438	0.182	0.620
Left Cheek	WCDMA	0.277	0.337	0.614
Left Tilted	WCDMA	0.167	0.314	0.481
Right Cheek	LTE	0.516	0.200	0.716
Right Tilted	LTE	0.447	0.182	0.629
Left Cheek	LTE	0.346	0.337	0.683
Left Tilted	LTE	0.169	0.314	0.483

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.290	0.265	0.555
Right Tilted	GSM	0.137	0.265	0.402
Left Cheek	GSM	0.256	0.265	0.521
Left Tilted	GSM	0.120	0.265	0.385
Right Cheek	WCDMA	0.588	0.265	0.853
Right Tilted	WCDMA	0.438	0.265	0.703
Left Cheek	WCDMA	0.277	0.265	0.542
Left Tilted	WCDMA	0.167	0.265	0.432
Right Cheek	LTE	0.516	0.265	0.781
Right Tilted	LTE	0.447	0.265	0.712
Left Cheek	LTE	0.346	0.265	0.611
Left Tilted	LTE	0.169	0.265	0.434

WWAN and WLAN

	WWAN		WLAN(5G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.290	0.152	0.442
Right Tilted	GSM	0.137	0.131	0.268
Left Cheek	GSM	0.256	0.151	0.407
Left Tilted	GSM	0.120	0.118	0.238
Right Cheek	WCDMA	0.588	0.152	0.740
Right Tilted	WCDMA	0.438	0.131	0.569
Left Cheek	WCDMA	0.277	0.151	0.428
Left Tilted	WCDMA	0.167	0.118	0.285
Right Cheek	LTE	0.516	0.152	0.668
Right Tilted	LTE	0.447	0.131	0.578
Left Cheek	LTE	0.346	0.151	0.497
Left Tilted	LTE	0.169	0.118	0.287

Body-worn SAR**WWAN and WLAN**

	WWAN		WLAN(2.4G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.184	0.252	0.436
Front	GSM	0.187	0.137	0.324
Back	WCDMA	0.256	0.252	0.508
Front	WCDMA	0.230	0.137	0.367
Back	LTE	0.379	0.252	0.631
Front	LTE	0.474	0.137	0.611

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.184	0.133	0.317
Front	GSM	0.187	0.133	0.320
Back	WCDMA	0.256	0.133	0.389
Front	WCDMA	0.230	0.133	0.363
Back	LTE	0.379	0.133	0.512
Front	LTE	0.474	0.133	0.607

WWAN and WLAN

	WWAN		WLAN(5G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.184	0.155	0.339
Front	GSM	0.187	0.160	0.347
Back	WCDMA	0.256	0.155	0.411
Front	WCDMA	0.230	0.160	0.390
Back	LTE	0.379	0.155	0.534
Front	LTE	0.474	0.160	0.634

Hotspot SAR**WWAN and WLAN**

	WWAN		WLAN(2.4G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.349	0.252	0.601
Front	GSM	0.327	0.137	0.464
Right side	GSM	0.224	0.073	0.297
Left side	GSM	0.152	/	0.152
Bottom side	GSM	0.201	/	0.201
Top side	GSM	0.066	0.216	0.282
Back	WCDMA	0.256	0.252	0.508
Front	WCDMA	0.230	0.137	0.367
Right side	WCDMA	0.226	0.073	0.299
Left side	WCDMA	0.136	/	0.136
Bottom side	WCDMA	0.161	/	0.161
Top side	WCDMA	0.119	0.216	0.335
Back	LTE	0.379	0.252	0.631
Front	LTE	0.474	0.137	0.611
Right side	LTE	0.214	0.073	0.287
Left side	LTE	0.153	/	0.153
Bottom side	LTE	0.395	/	0.395
Top side	LTE	0.128	0.216	0.344

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.349	0.133	0.482
Front	GSM	0.327	0.133	0.460
Right side	GSM	0.224	0.133	0.357
Left side	GSM	0.152	/	0.152
Bottom side	GSM	0.201	/	0.201
Top side	GSM	0.066	0.133	0.199
Back	WCDMA	0.256	0.133	0.389
Front	WCDMA	0.230	0.133	0.363
Right side	WCDMA	0.226	0.133	0.359

Left side	WCDMA	0.136	/	0.136
Bottom side	WCDMA	0.161	/	0.161
Top side	WCDMA	0.119	0.133	0.252
Back	LTE	0.379	0.133	0.512
Front	LTE	0.474	0.133	0.607
Right side	LTE	0.214	0.133	0.347
Left side	LTE	0.153	/	0.153
Bottom side	LTE	0.395	/	0.395
Top side	LTE	0.128	0.133	0.261

WWAN and WLAN

	WWAN		WLAN(5G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.349	0.155	0.504
Front	GSM	0.327	0.160	0.487
Right side	GSM	0.224	0.148	0.372
Left side	GSM	0.152	/	0.152
Bottom side	GSM	0.201	/	0.201
Top side	GSM	0.066	0.151	0.217
Back	WCDMA	0.256	0.155	0.411
Front	WCDMA	0.230	0.160	0.390
Right side	WCDMA	0.226	0.148	0.374
Left side	WCDMA	0.136	/	0.136
Bottom side	WCDMA	0.161	/	0.161
Top side	WCDMA	0.119	0.151	0.270
Back	LTE	0.379	0.155	0.534
Front	LTE	0.474	0.160	0.634
Right side	LTE	0.214	0.148	0.362
Left side	LTE	0.153	/	0.153
Bottom side	LTE	0.395	/	0.395
Top side	LTE	0.128	0.151	0.279

10. Measurement Uncertainty

10.1 Uncertainty for EUT SAR Test

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+- %)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_{Cp})^{1/2}$	$(1_{Cp})^{1/2}$	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$(Cp)^{1/2}$	$(Cp)^{1/2}$	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions – Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Test Sample Related									
Test sample positioning	E.4.2	0.03	N	1	1	1	0.03	0.03	N-1
Device Holder Uncertainty	E.4.1	5.00	N	1	1	1	5.00	5.00	
Output power Variation - SAR drift measurement	E.2.9	12.02	R	$\sqrt{3}$	1	1	6.94	6.94	∞
SAR scaling	E6.5	0.0	R	$\sqrt{3}$	1	1	0.0	0.0	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E3.2	1.9	R	$\sqrt{3}$	1	0.84	1.10	0.90	∞

Liquid conductivity - deviation from target value	E.3.2	5.00	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	∞
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	∞
Liquid permittivity - deviation from target value	E.3.2	0.37	R	$\sqrt{3}$	0.6	0.49	0.13	0.10	∞
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	∞
Combined Standard Uncertainty			RSS				12.98	12.53	
Expanded Uncertainty (95% Confidence interval)			K=2				25.32	24.43	

10.2 Uncertainty for System Performance Check

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+ - %)	10g Ui (+ - %)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_Cp)^{1/2}$	$(1_Cp)^{1/2}$	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$(Cp)^{1/2}$	$(Cp)^{1/2}$	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E.2.5	0	R	$\sqrt{3}$	0	0	0.0	0.0	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions – Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞

integration Algorithms for Max. SAR Evaluation									
Dipole									
Dipole axis to liquid Distance	8,E.4.2	1.00	N	$\sqrt{3}$	1	1	0.58	0.58	N-1
Input power and SAR drift measurement	8,6.6.2	12.02	R	$\sqrt{3}$	1	1	6.94	6.94	∞
Deviation of experimental dipole from numerical dipole	E.6.4	5.5	R	$\sqrt{3}$	1	1	3.20	3.20	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E3.2	2.0	R	$\sqrt{3}$	1	0.84	1.10	1.10	∞
Liquid conductivity - deviation from target value	E.3.2	5.00	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	
Liquid permittivity - deviation from target value	E.3.2	0.37	R	$\sqrt{3}$	0.6	0.49	0.13	0.10	
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
Combined Standard Uncertainty			RSS				12.00	11.50	
Expanded Uncertainty (95% Confidence interval)			K=2				23.39	22.43	

Annex A. Plots of System Performance Check

MEASUREMENT 1

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 7 minutes 21 seconds

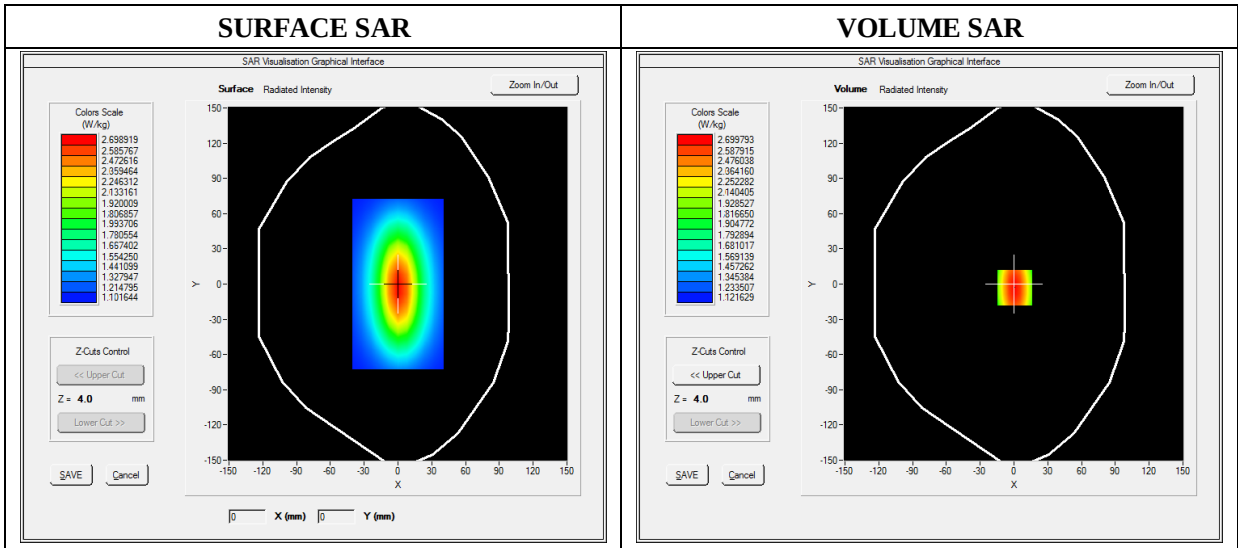
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative Permittivity (real part)	41.020574
Conductivity (S/m)	0.860583
Power Variation (%)	0.038363
Ambient Temperature	22.0
Liquid Temperature	22.2

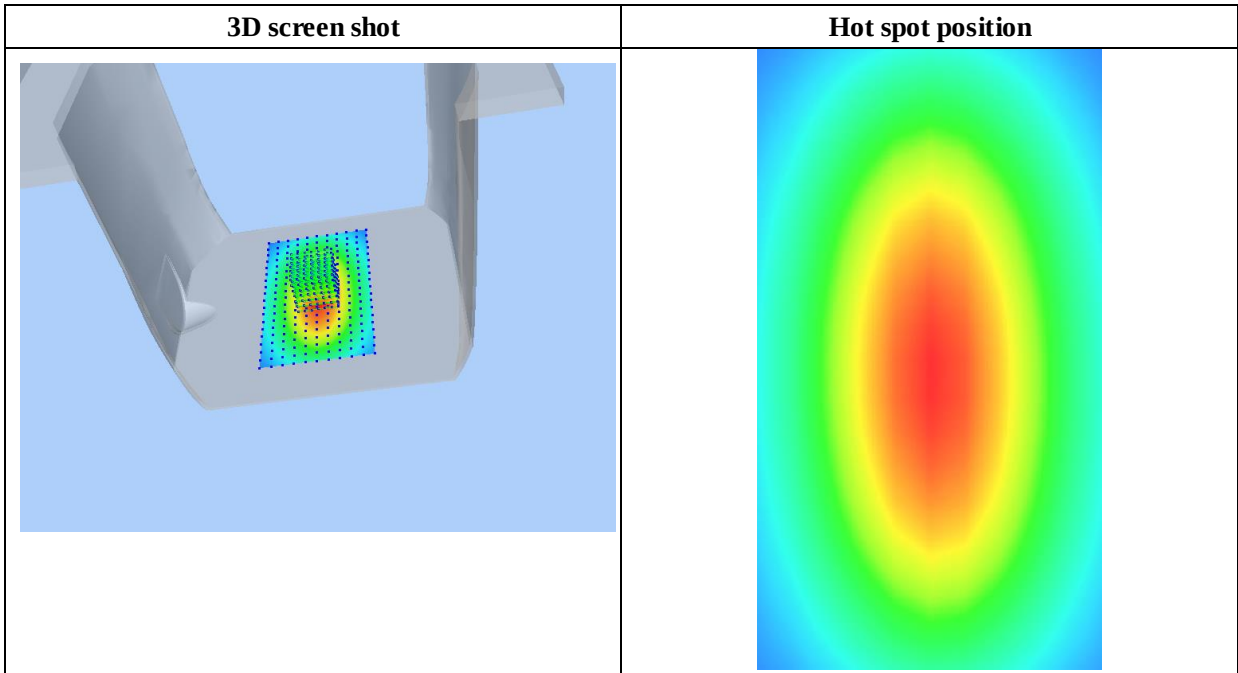
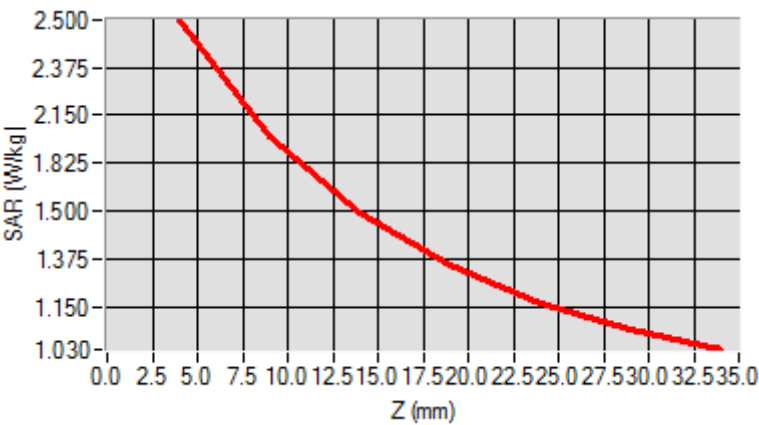


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.042744
SAR 1g (W/Kg)	2.180534

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.3634	1.8023	1.4523	1.2514	1.1005	1.0245



MEASUREMENT 2

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 7 minutes 21 seconds

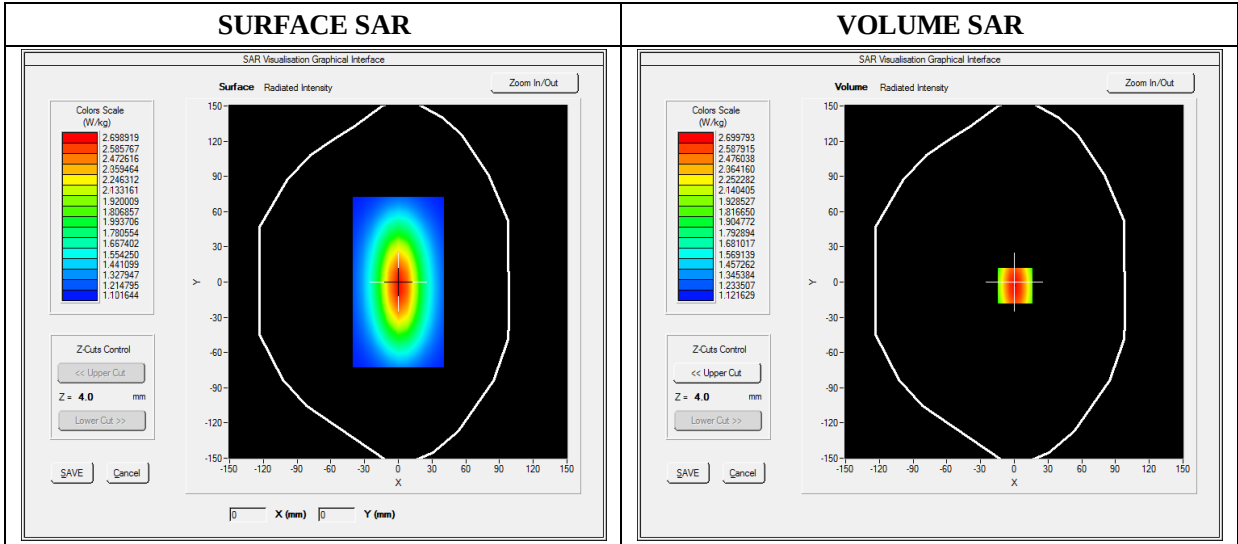
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative Permittivity (real part)	40.750245
Conductivity (S/m)	0.881245
Power Variation (%)	0.428437
Ambient Temperature	22.0
Liquid Temperature	22.2

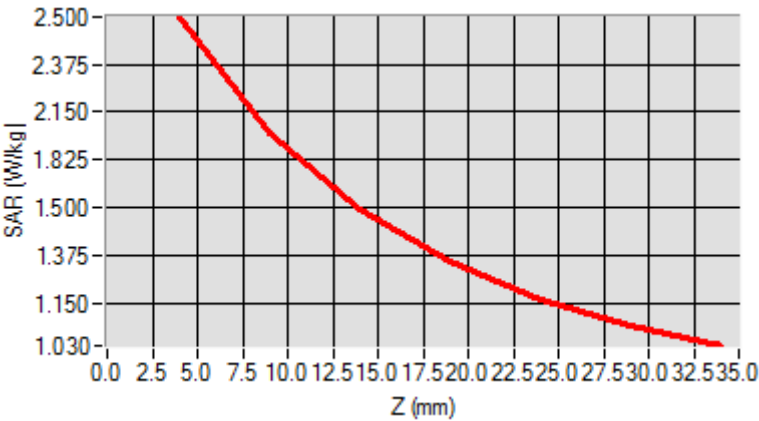


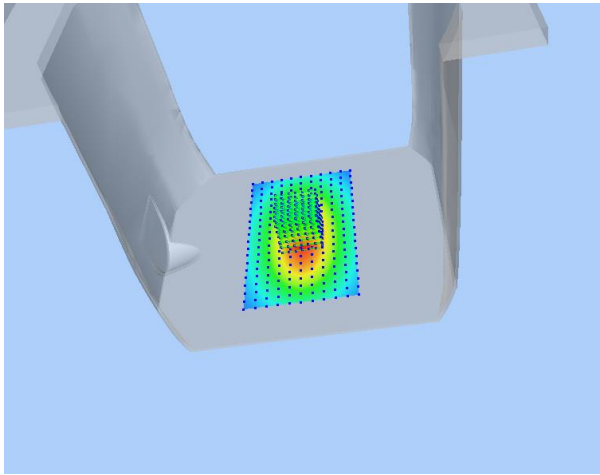
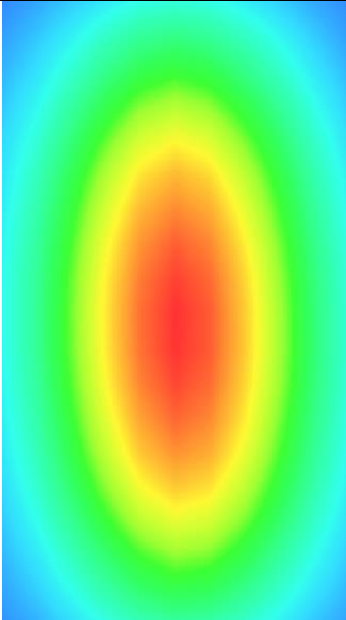
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.519489
SAR 1g (W/Kg)	2.511253

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.4900	1.8942	1.4811	1.3541	1.1123	1.0539



3D screen shot	Hot spot position
	

MEASUREMENT 3

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

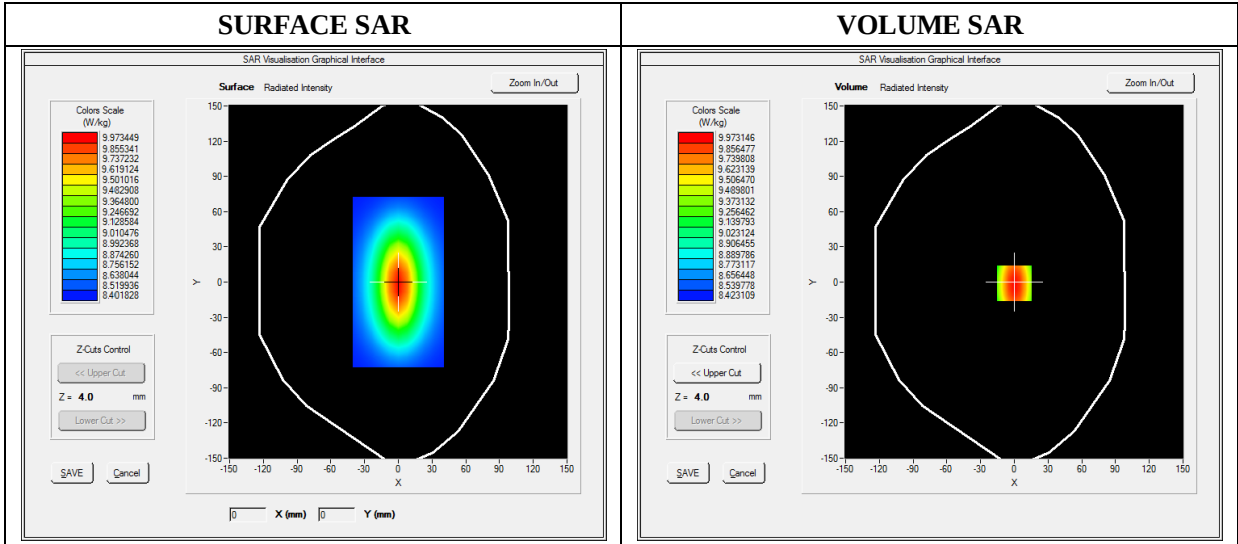
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative Permittivity (real part)	39.427090
Conductivity (S/m)	1.382510
Power Variation (%)	1.041232
Ambient Temperature	22.0
Liquid Temperature	22.2

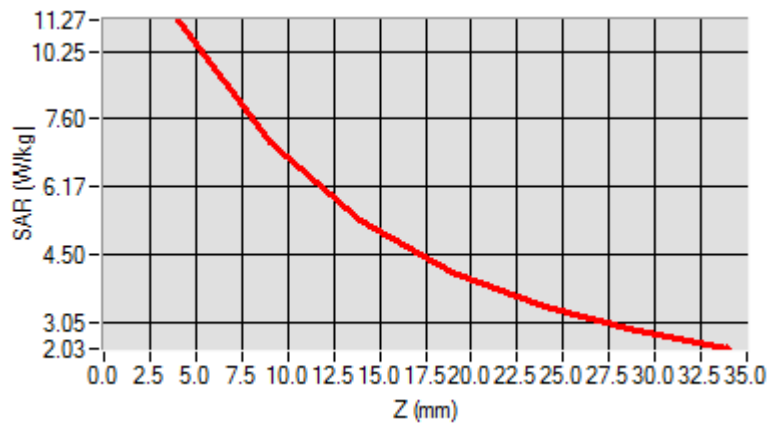


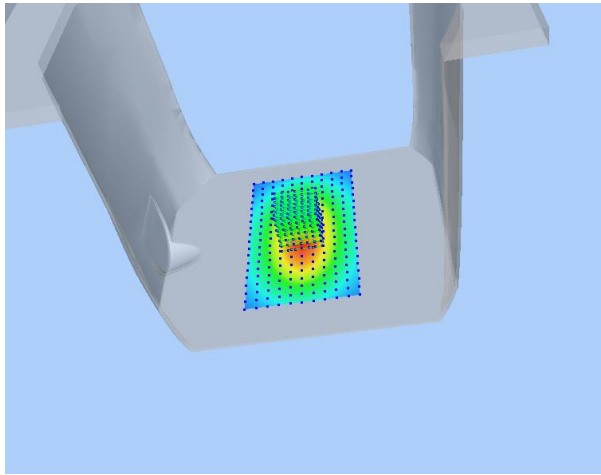
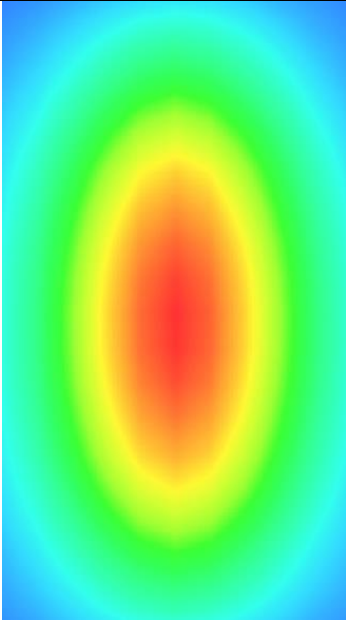
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.081252
SAR 1g (W/Kg)	9.461217

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.3455	7.1125	5.1026	3.425	3.0242	2.1125



3D screen shot	Hot spot position
	

MEASUREMENT 4

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

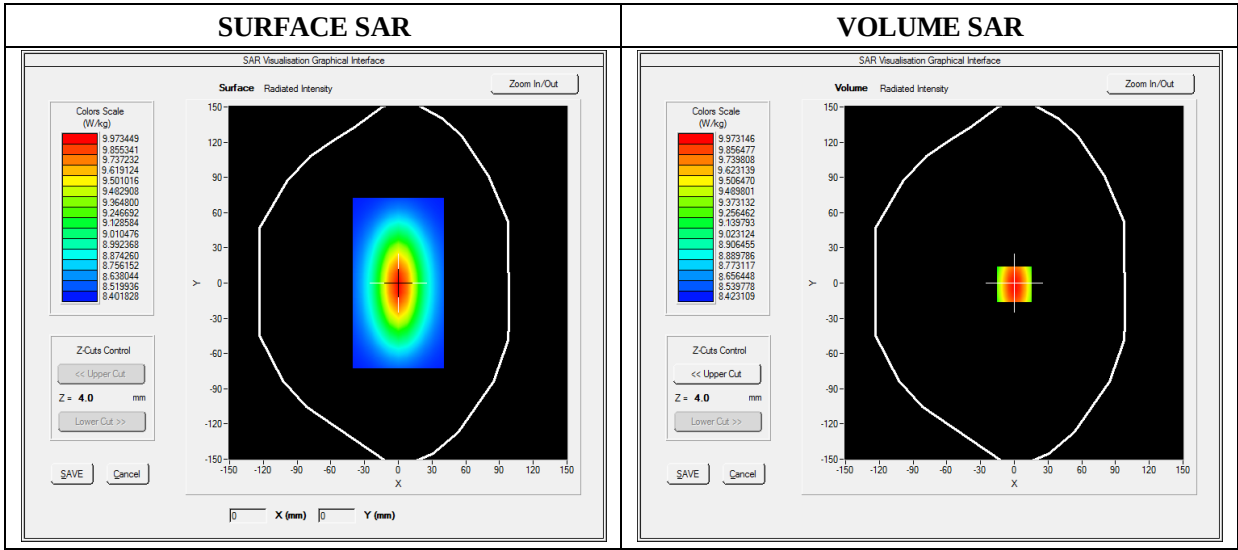
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	39.060124
Conductivity (S/m)	1.393607
Power Variation (%)	1.022540
Ambient Temperature	22.0
Liquid Temperature	22.2

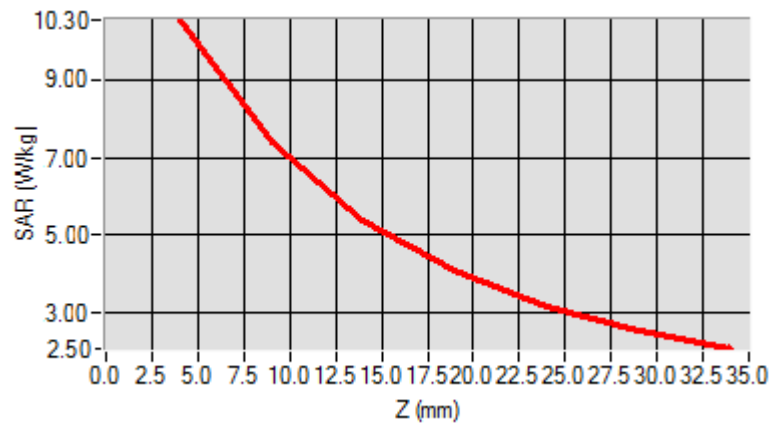


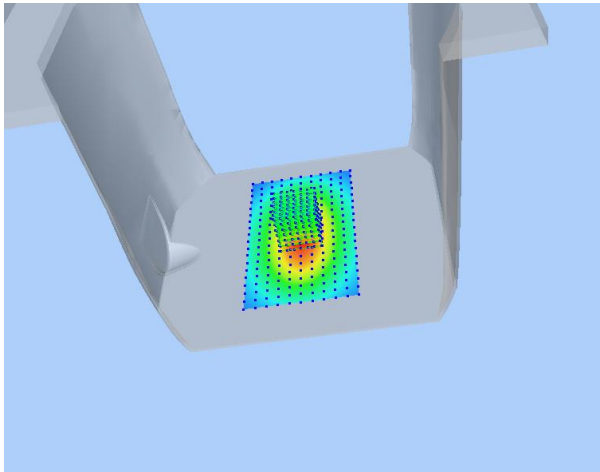
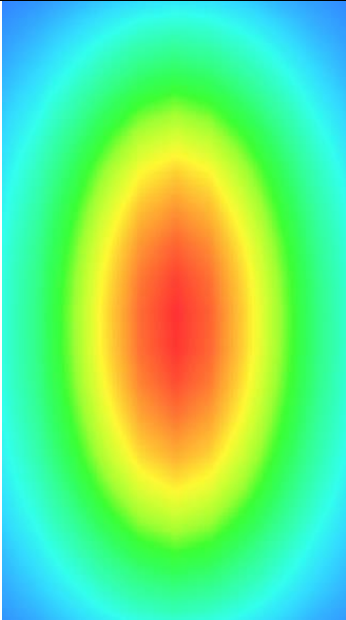
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.174526
SAR 1g (W/Kg)	9.913214

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2354	6.8400	5.0121	4.1189	3.0522	2.8424



3D screen shot	Hot spot position
	

MEASUREMENT 5

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

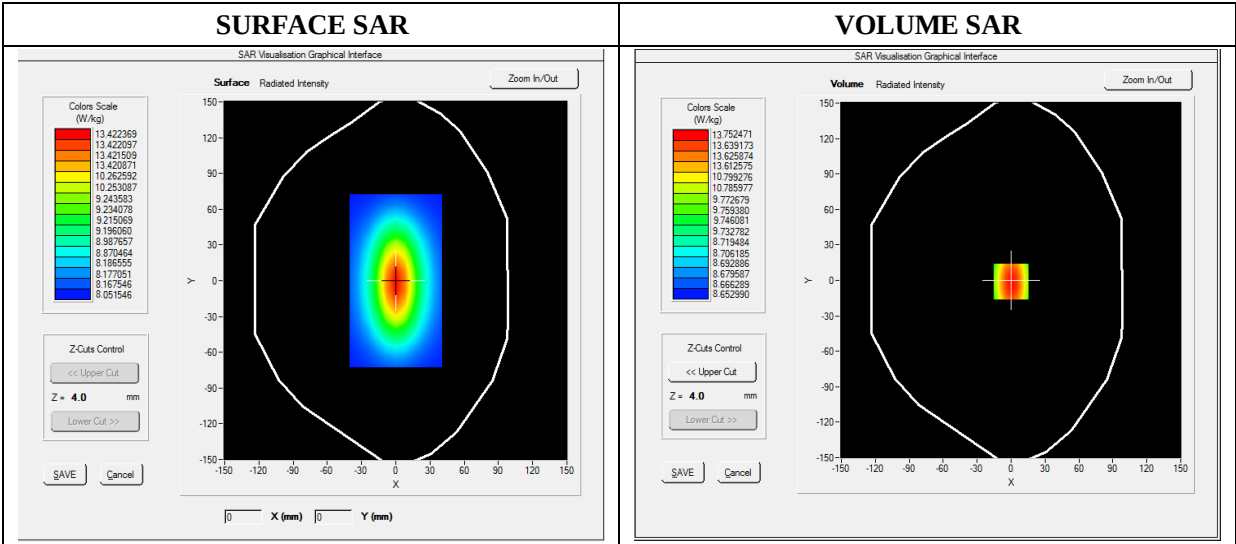
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.450860
Conductivity (S/m)	1.770236
Power Variation (%)	1.141452
Ambient Temperature	22.0
Liquid Temperature	22.2

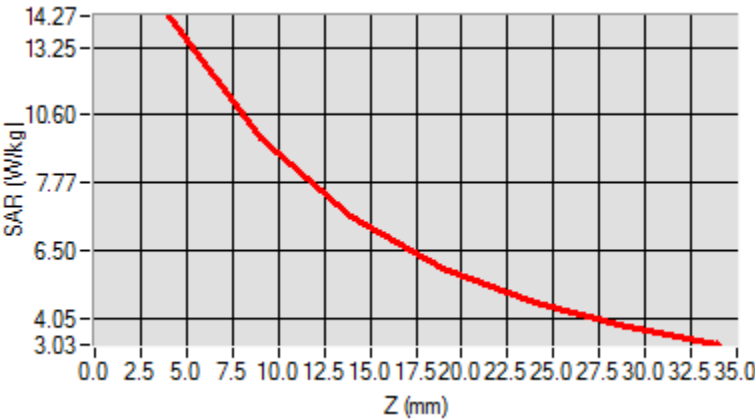


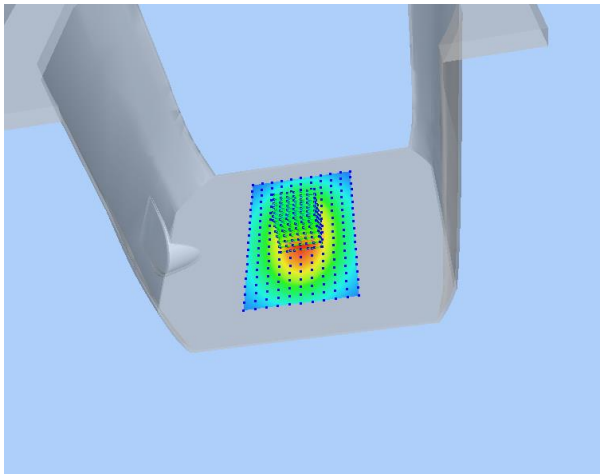
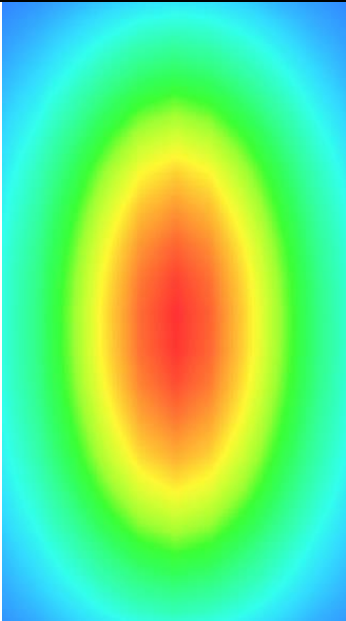
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	8.210711
SAR 1g (W/Kg)	13.752408

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	14.1034	12.0012	10.2624	7.4715	5.9022	4.5114



3D screen shot	Hot spot position
	

MEASUREMENT 6

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

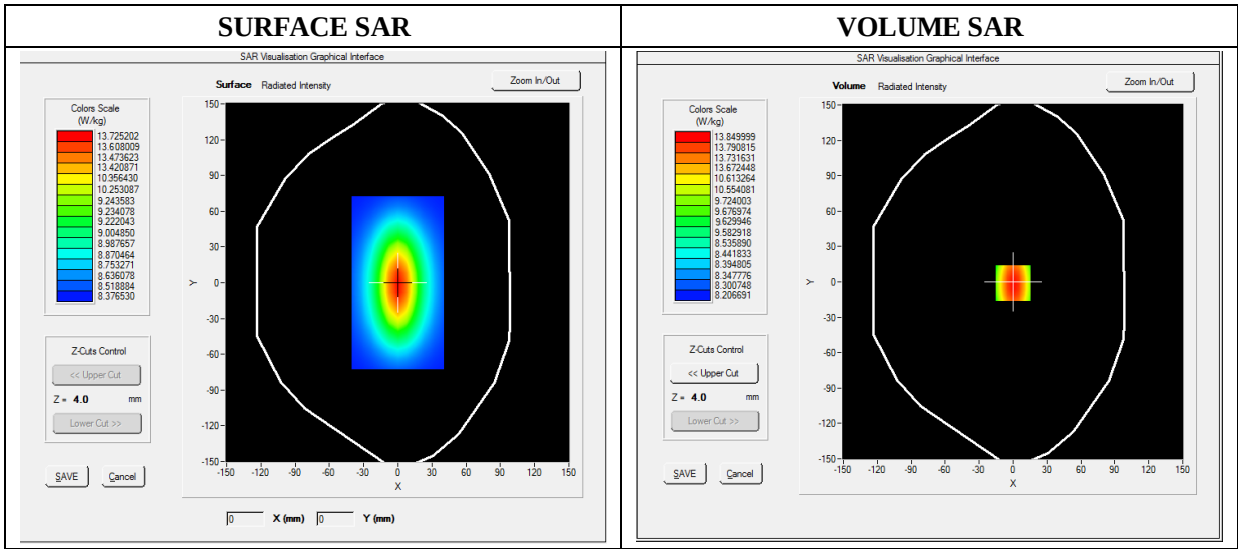
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	Duty Cycle 1:1

B. SAR Measurement Results

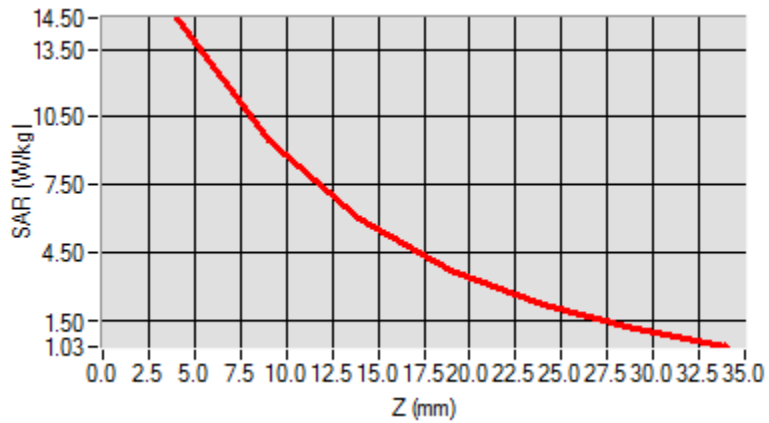
Frequency (MHz)	2600.000000
Relative Permittivity (real part)	37.934092
Conductivity (S/m)	1.973182
Power Variation (%)	0.886021
Ambient Temperature	22.0
Liquid Temperature	22.2

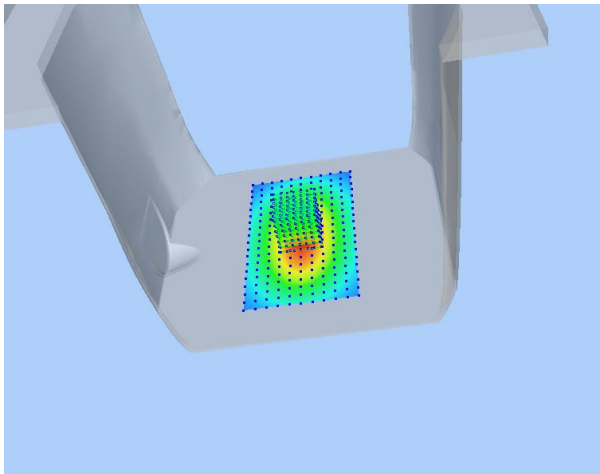
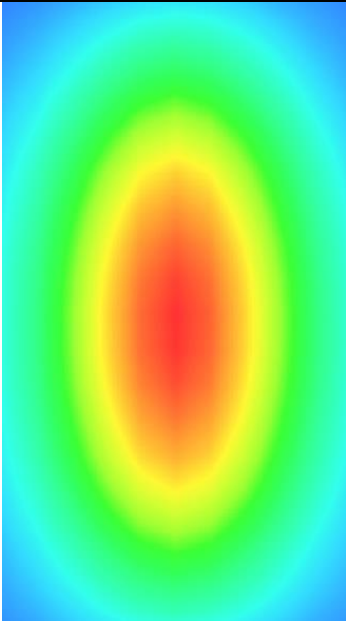


SAR 10g (W/Kg)	8.230801
SAR 1g (W/Kg)	13.539282

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	14.0426	12.1354	10.2965	7.4854	5.9354	4.5186



3D screen shot	Hot spot position
	

MEASUREMENT 7

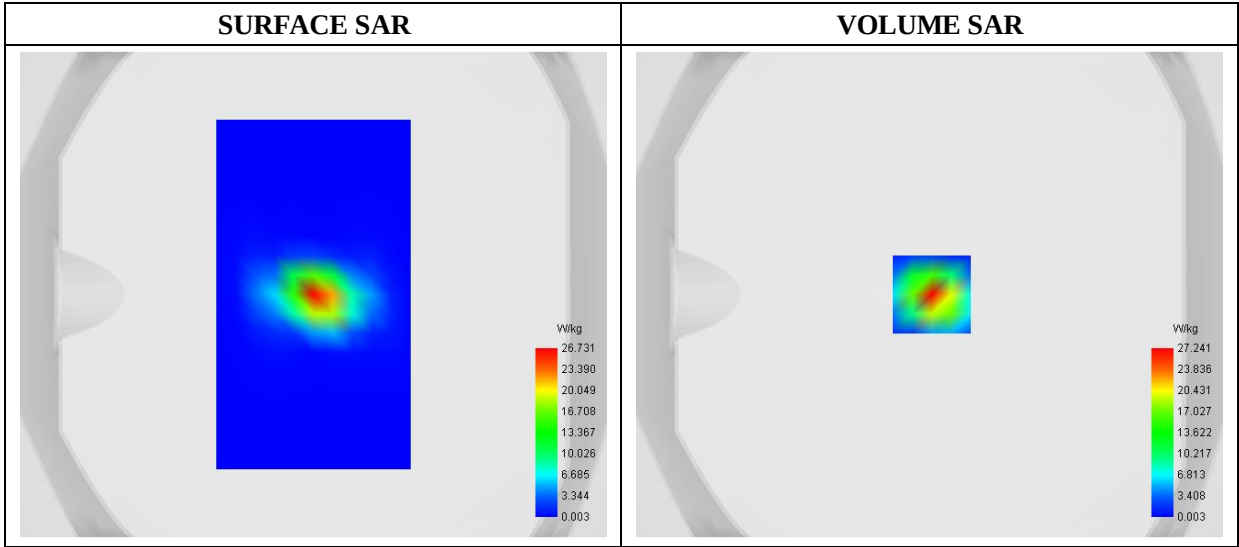
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SN 45/15 EPGO280; ConvF: 5.64; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

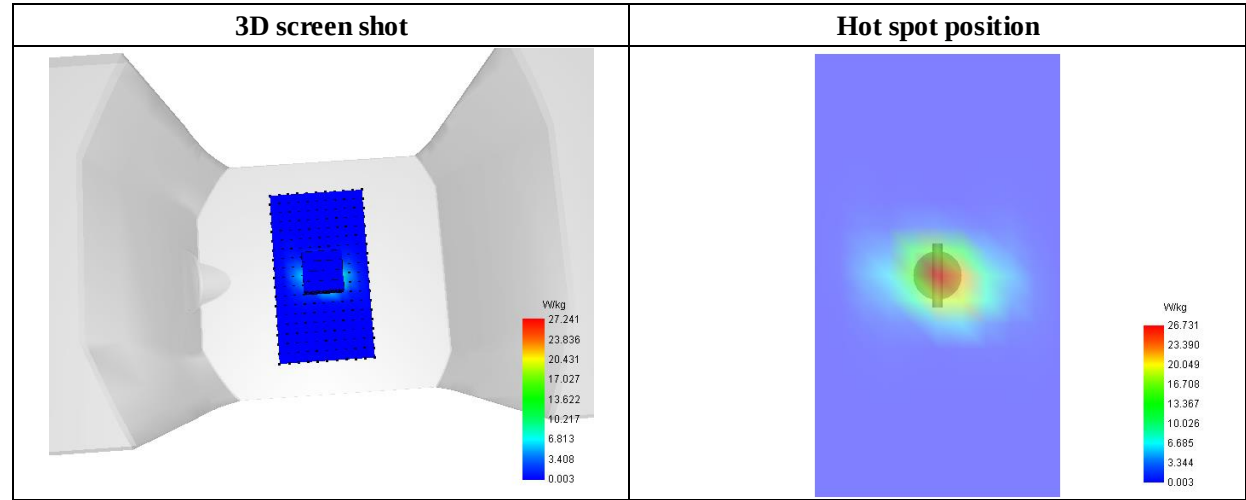
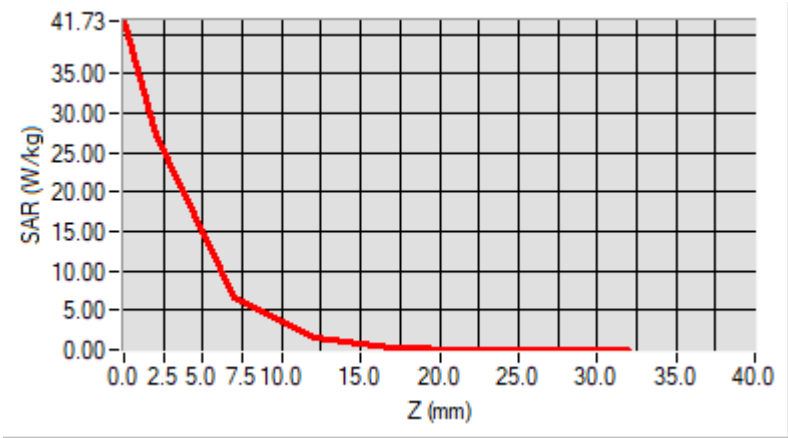
Frequency (MHz)	5200.000000
Relative Permittivity (real part)	35.612911
Conductivity (S/m)	4.771483
Power Variation (%)	0.943782
Ambient Temperature	22.0
Liquid Temperature	22.3



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	5.310334
SAR 1g (W/Kg)	16.946226

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	41.7264	27.2408	6.5746	1.6234	0.3765	0.0793	0.0129



MEASUREMENT 8

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

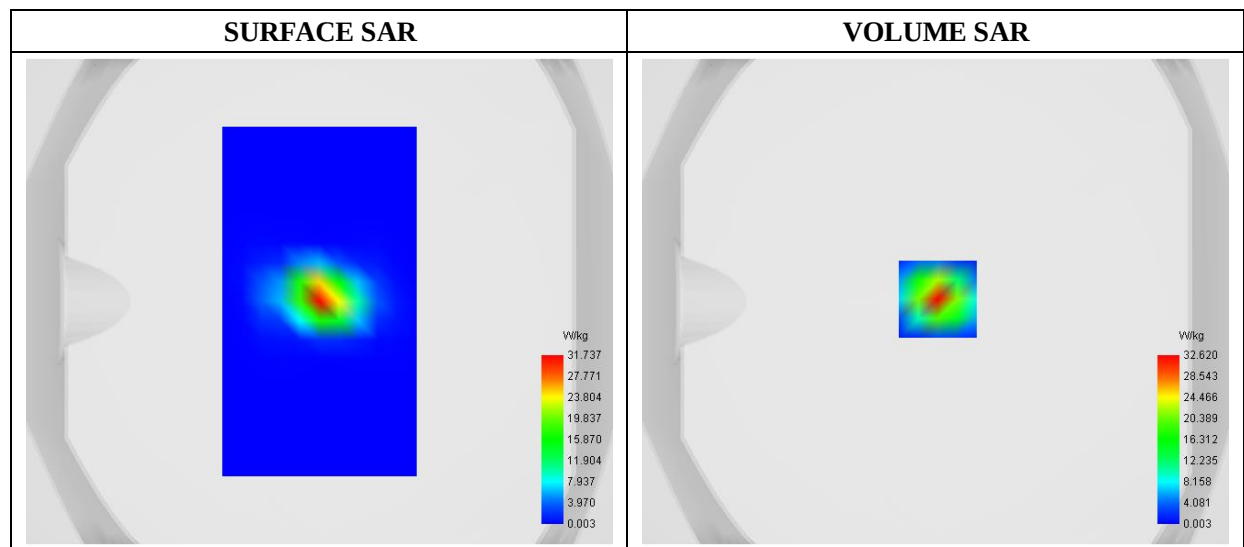
E-field Probe: SN 45/15 EPGO280; ConvF: 5.64; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

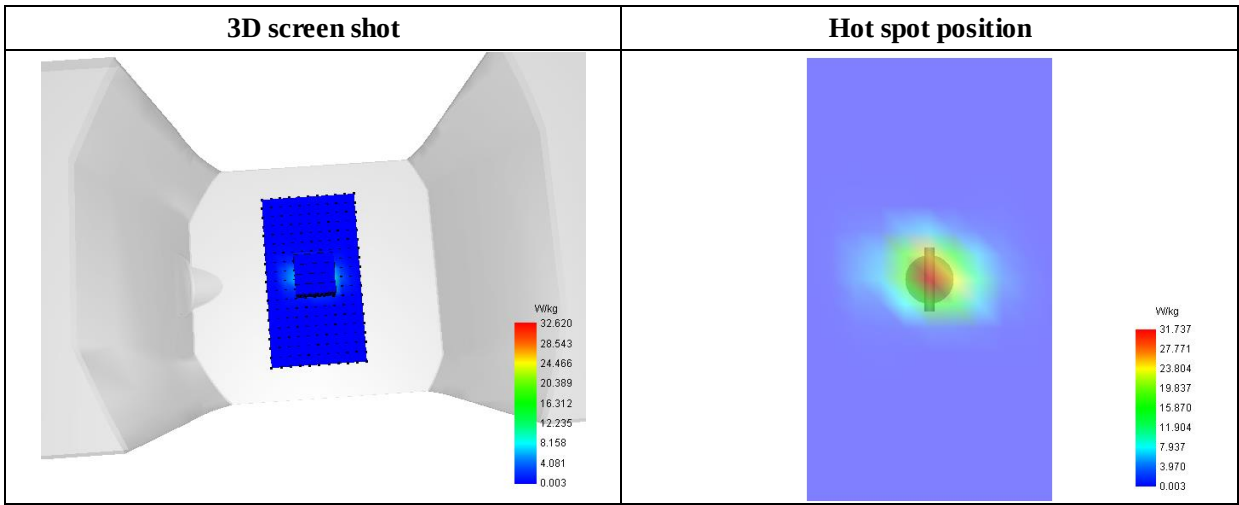
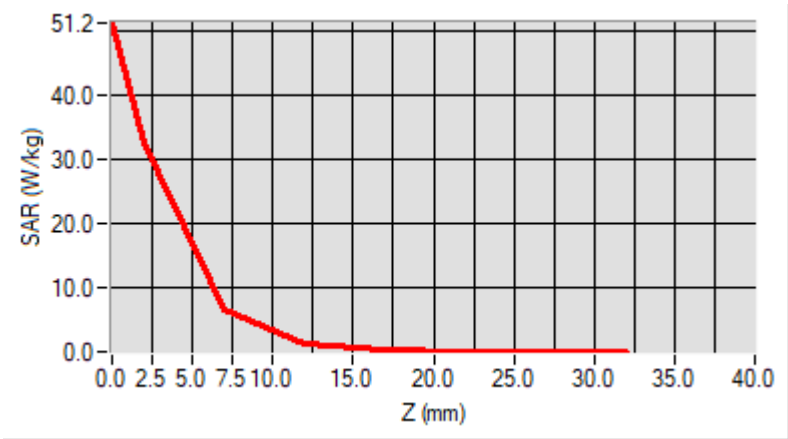
Frequency (MHz)	5800.000000
Relative Permittivity (real part)	34.301254
Conductivity (S/m)	5.210512
Power Variation (%)	1.643281
Ambient Temperature	22.0
Liquid Temperature	22.3



Maximum location: X=1.00, Y=1.00

SAR 10g (W/Kg)	5.922791
SAR 1g (W/Kg)	18.604052

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	51.2061	32.6198	6.6166	1.3486	0.2638	0.0509	0.0050



MEASUREMENT 9

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

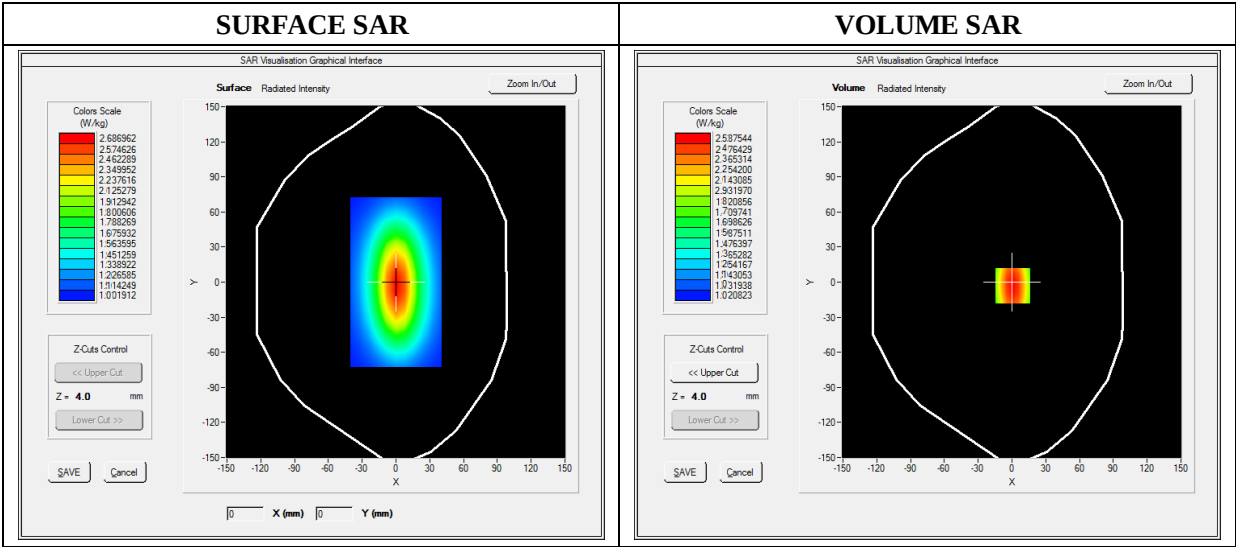
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative Permittivity (real part)	56.164705
Conductivity (S/m)	0.943042
Power Variation (%)	1.034745
Ambient Temperature	22.0
Liquid Temperature	22.2

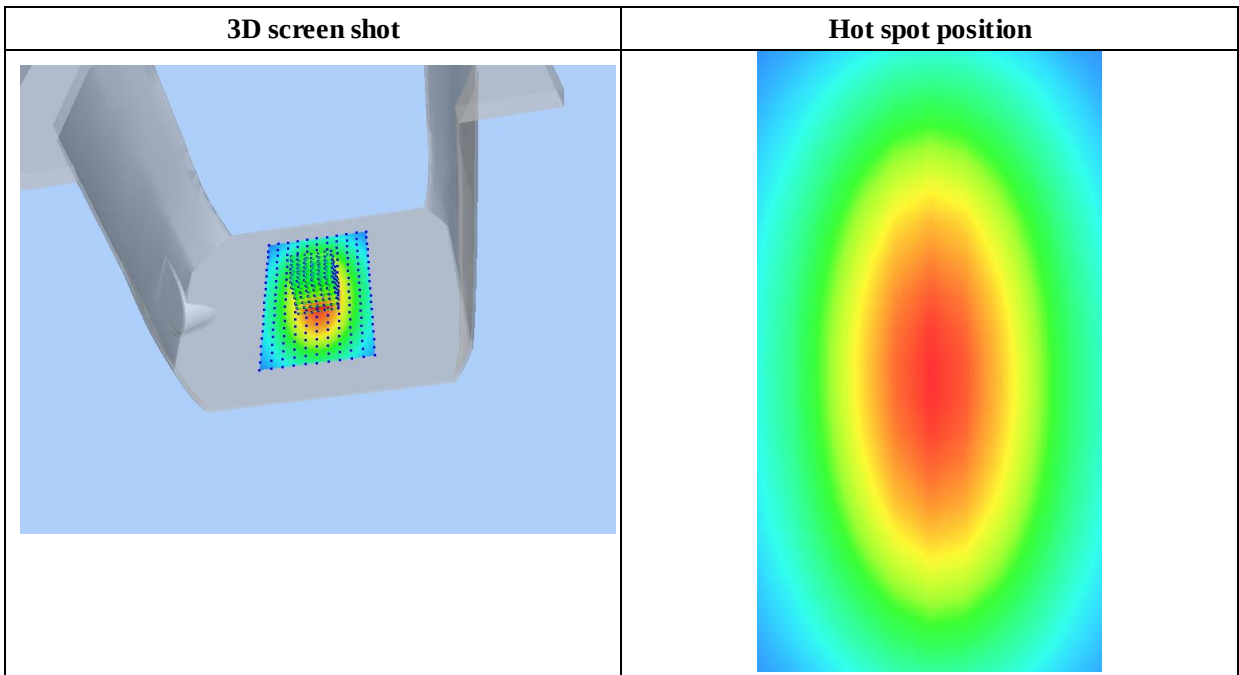
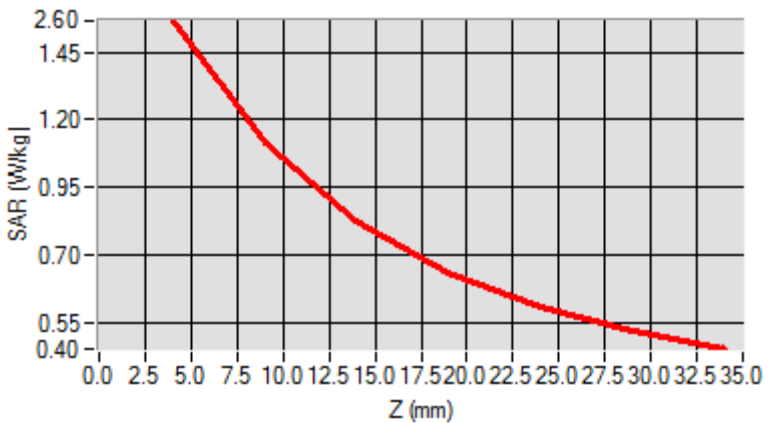


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.030865
SAR 1g (W/Kg)	2.174211

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.5132	1.1087	0.8214	0.5160	0.4875	0.4864



MEASUREMENT 10

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

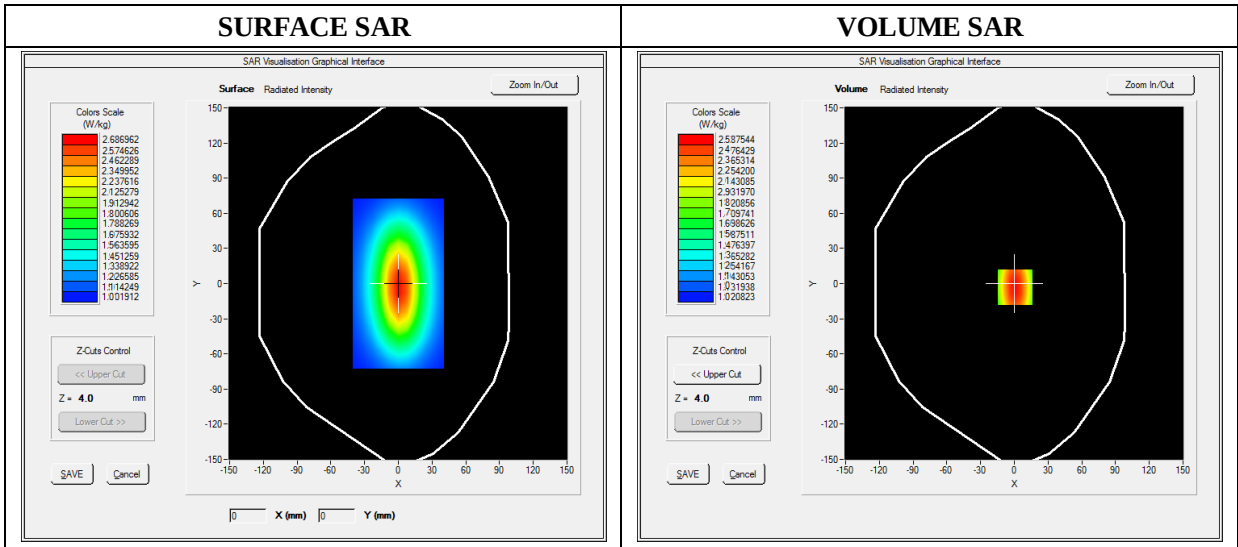
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative Permittivity (real part)	55.681264
Conductivity (S/m)	0.966454
Power Variation (%)	0.908572
Ambient Temperature	22.0
Liquid Temperature	22.2

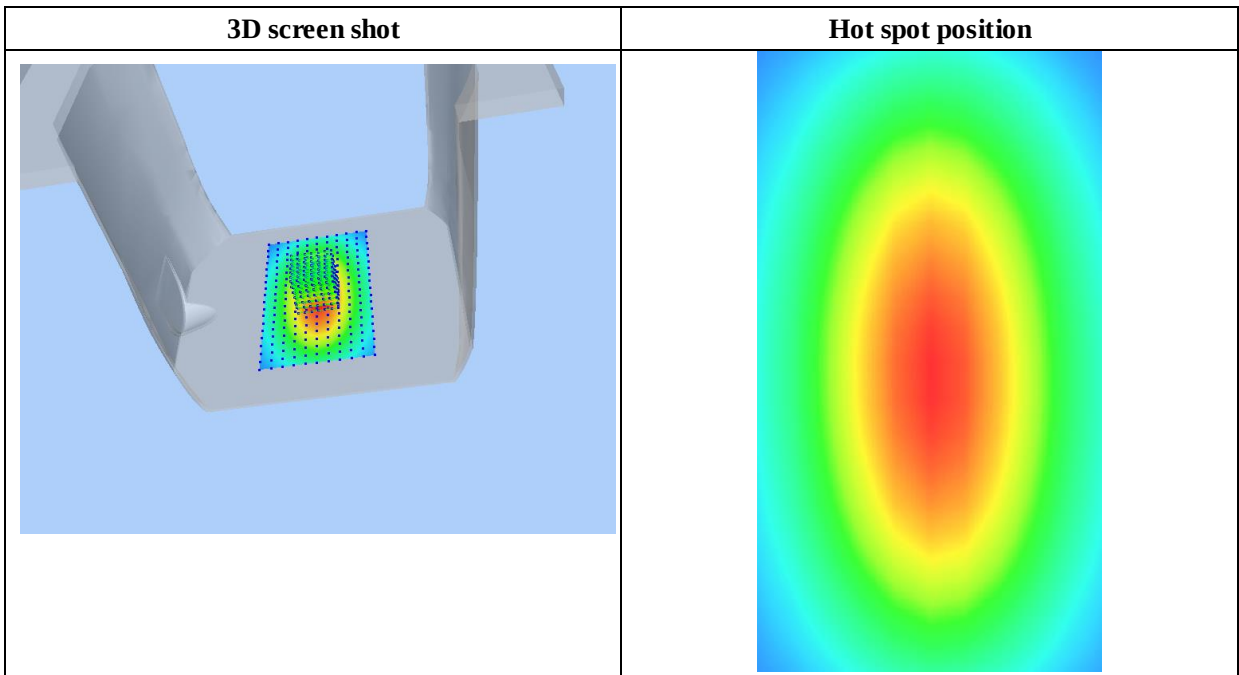
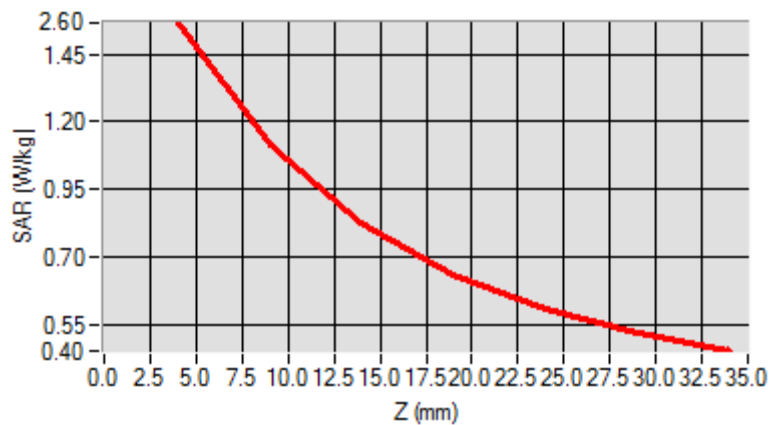


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.028956
SAR 1g (W/Kg)	2.354211

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.5789	1.1300	0.8795	0.5940	0.5011	0.5100



MEASUREMENT 11

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

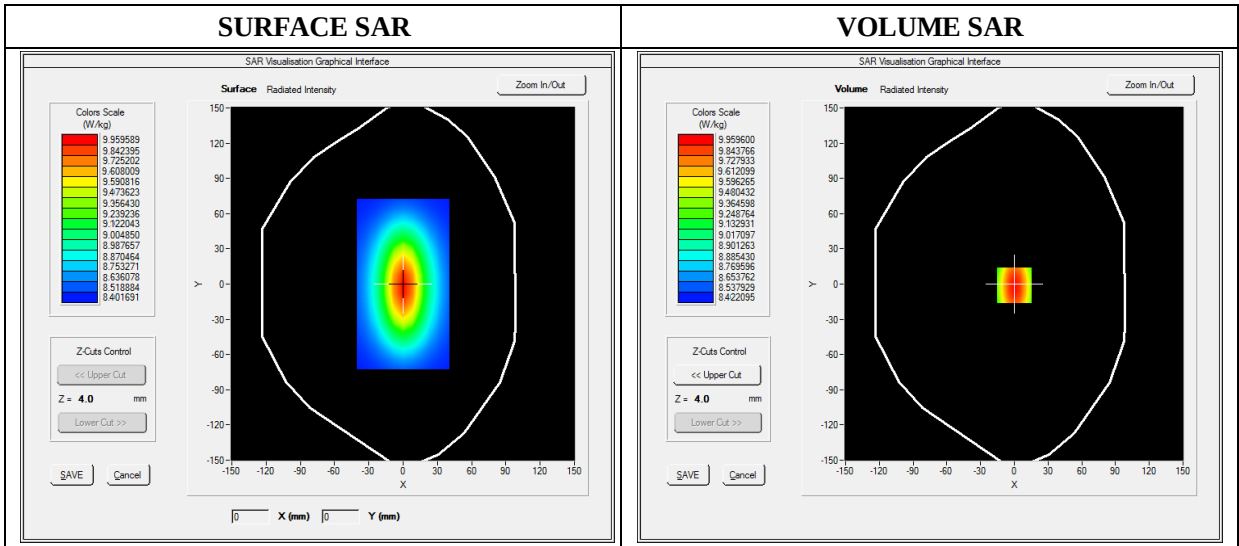
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative Permittivity (real part)	52.174510
Conductivity (S/m)	1.481261
Power Variation (%)	1.285610
Ambient Temperature	22.0
Liquid Temperature	22.2

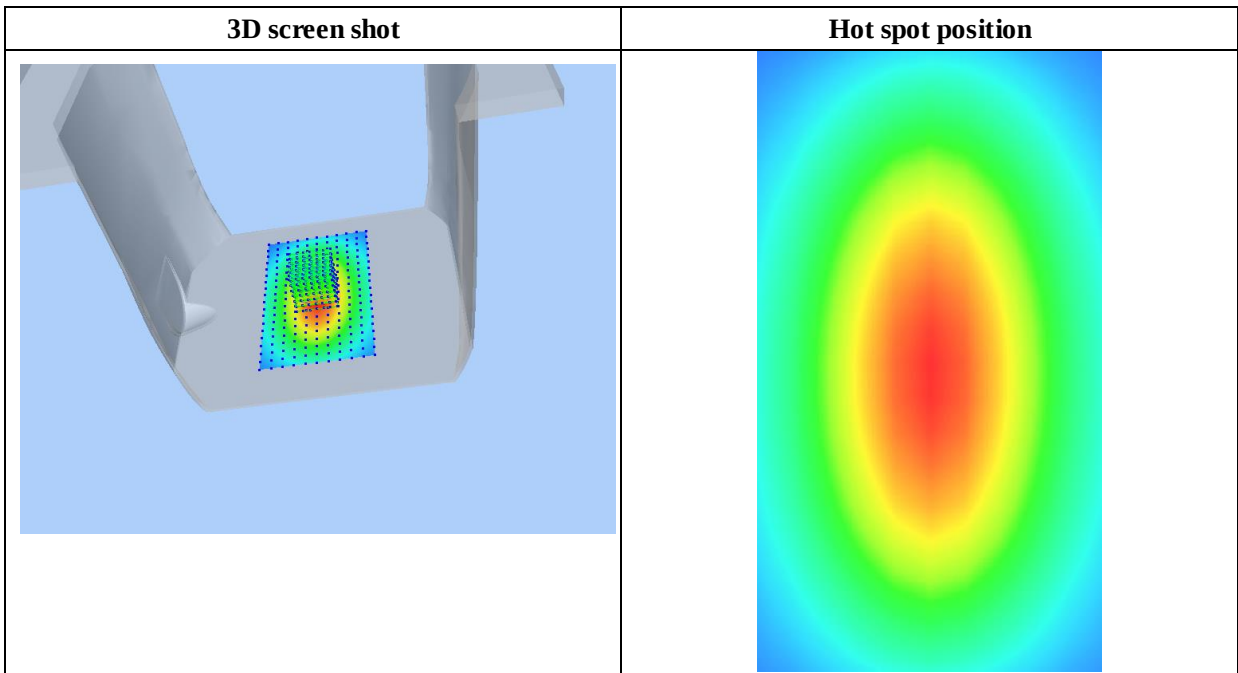
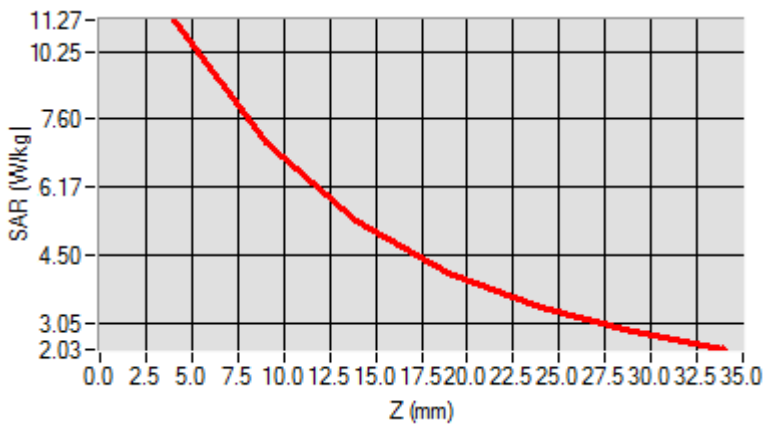


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.221202
SAR 1g (W/Kg)	9.682560

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	11.2425	9.4123	8.0345	6.9125	6.3092	3.9460



MEASUREMENT 12

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

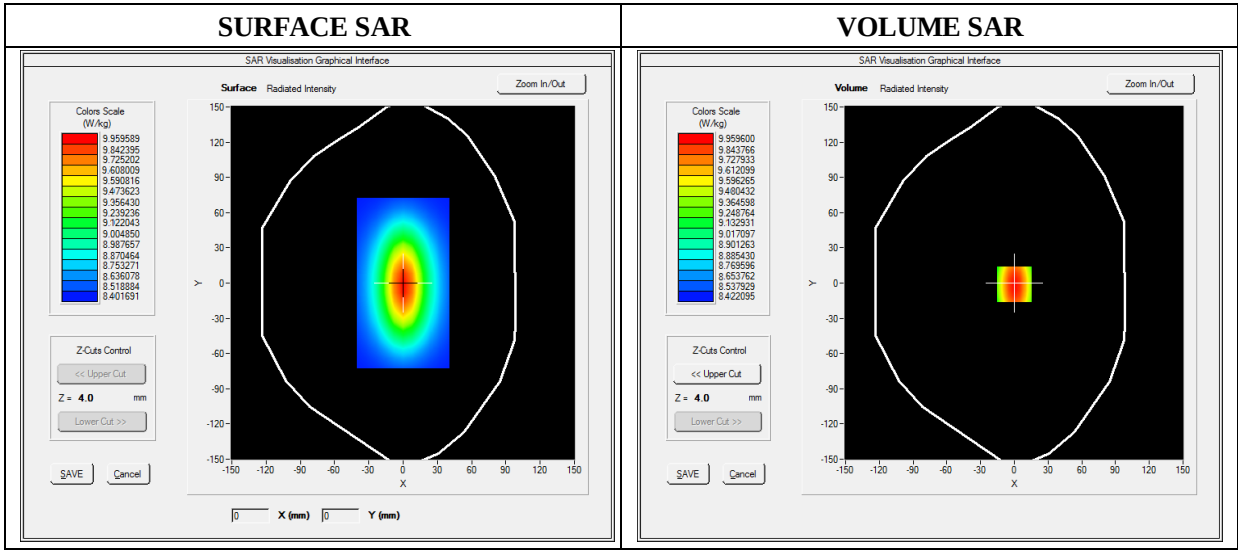
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	51.820415
Conductivity (S/m)	1.530966
Power Variation (%)	0.741802
Ambient Temperature	22.0
Liquid Temperature	22.2

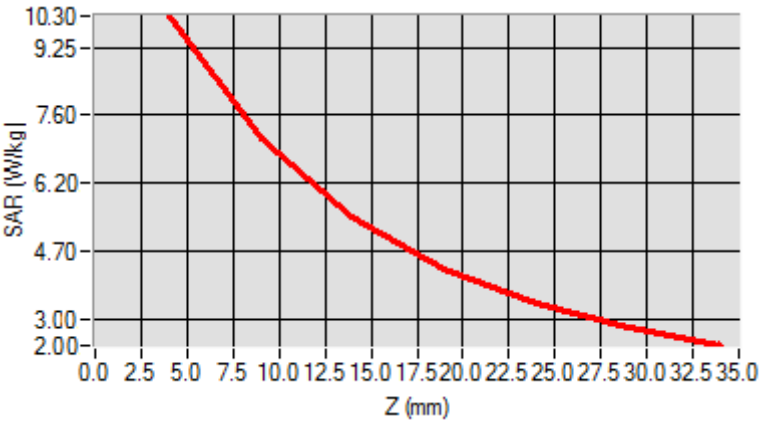


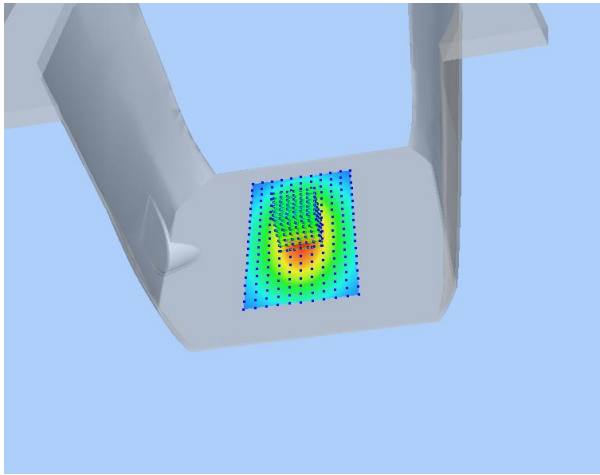
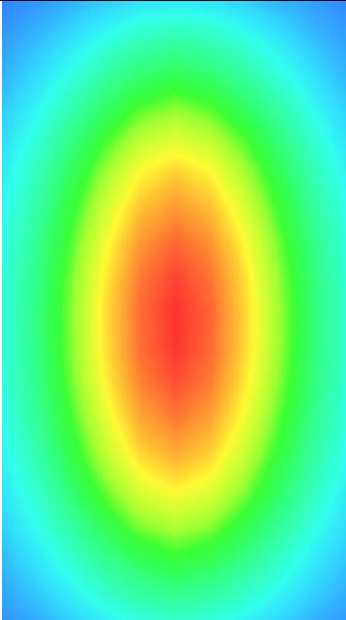
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.354652
SAR 1g (W/Kg)	10.021550

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2031	6.43001	4.9011	4.5325	3.1201	2.5024



3D screen shot	Hot spot position
	

MEASUREMENT 13

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

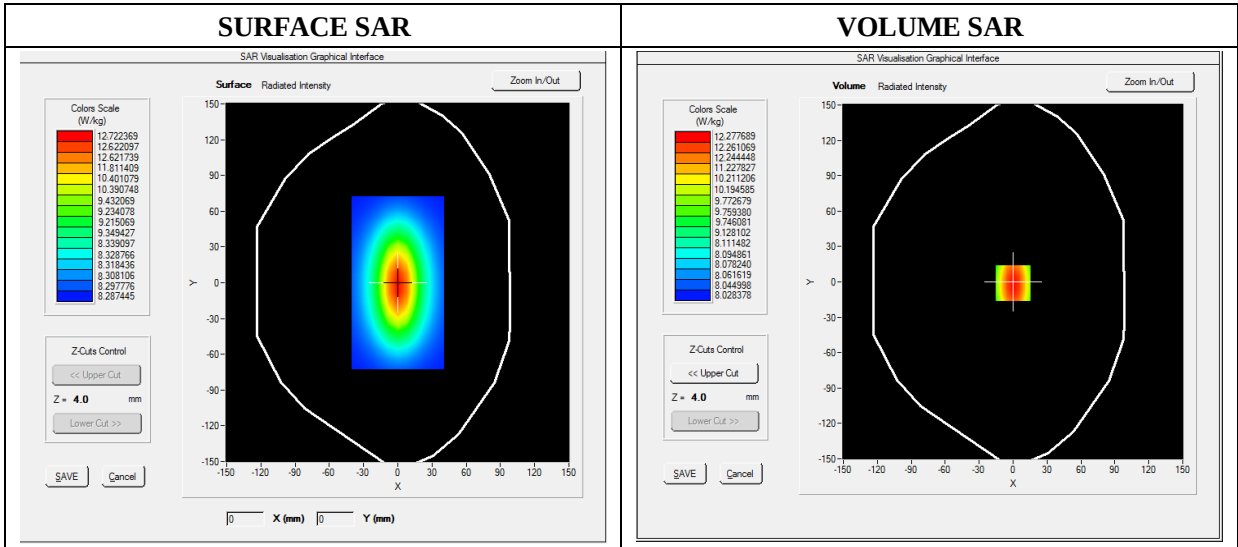
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	53.208212
Conductivity (S/m)	1.970285
Power Variation (%)	1.305745
Ambient Temperature	22.0
Liquid Temperature	22.2

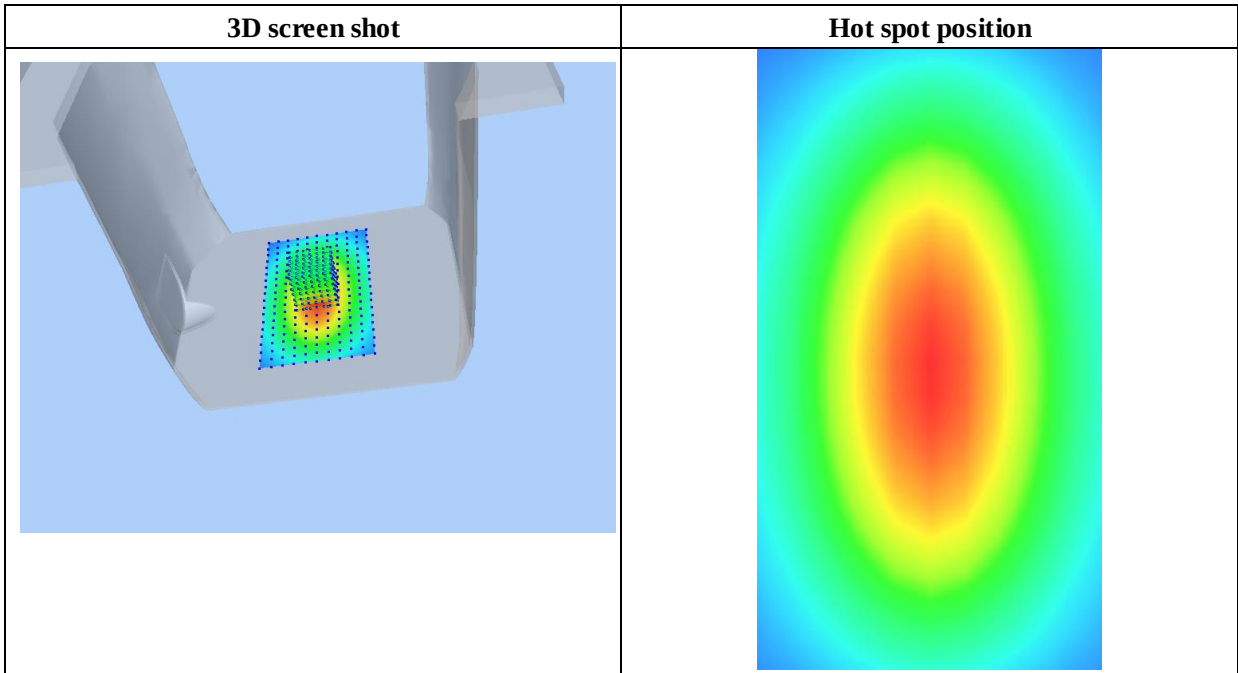
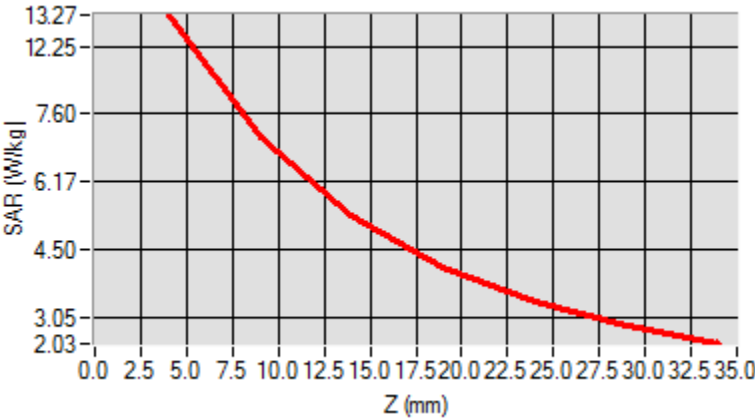


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.209571
SAR 1g (W/Kg)	12.782364

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	13.1911	11.7951	9.2945	8.5400	6.3712	4.6225



MEASUREMENT 14

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

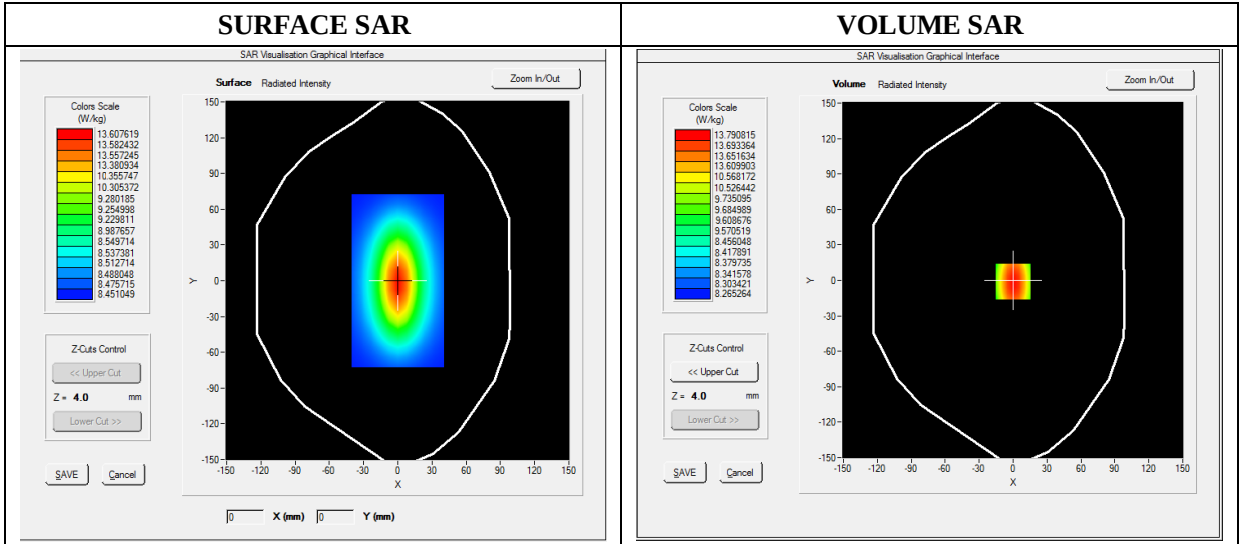
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative Permittivity (real part)	52.431202
Conductivity (S/m)	2.200483
Power Variation (%)	1.208832
Ambient Temperature	22.0
Liquid Temperature	22.2

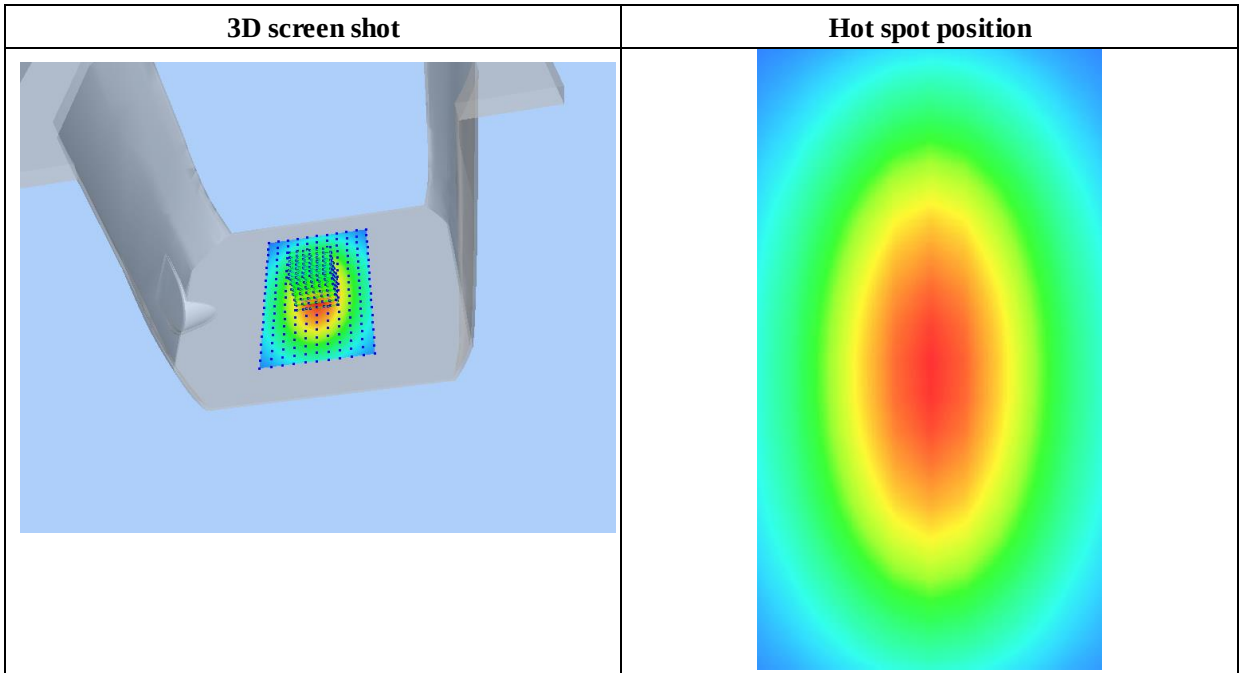
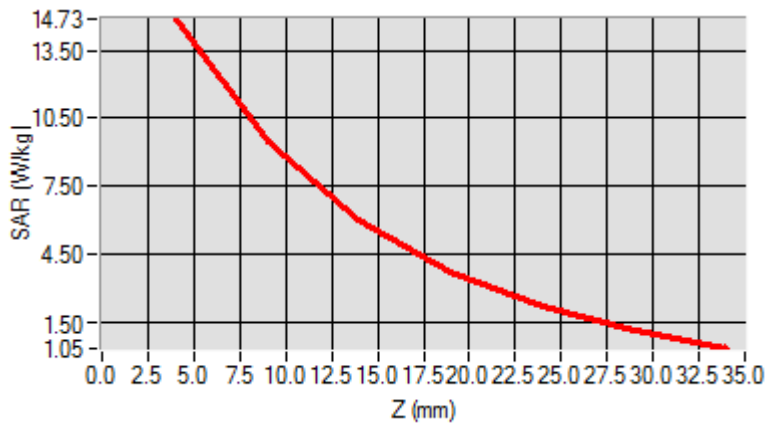


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.963712
SAR 1g (W/Kg)	13.020481

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	13.6473	11.8441	9.3627	8.5782	6.4357	4.6342



MEASUREMENT 15

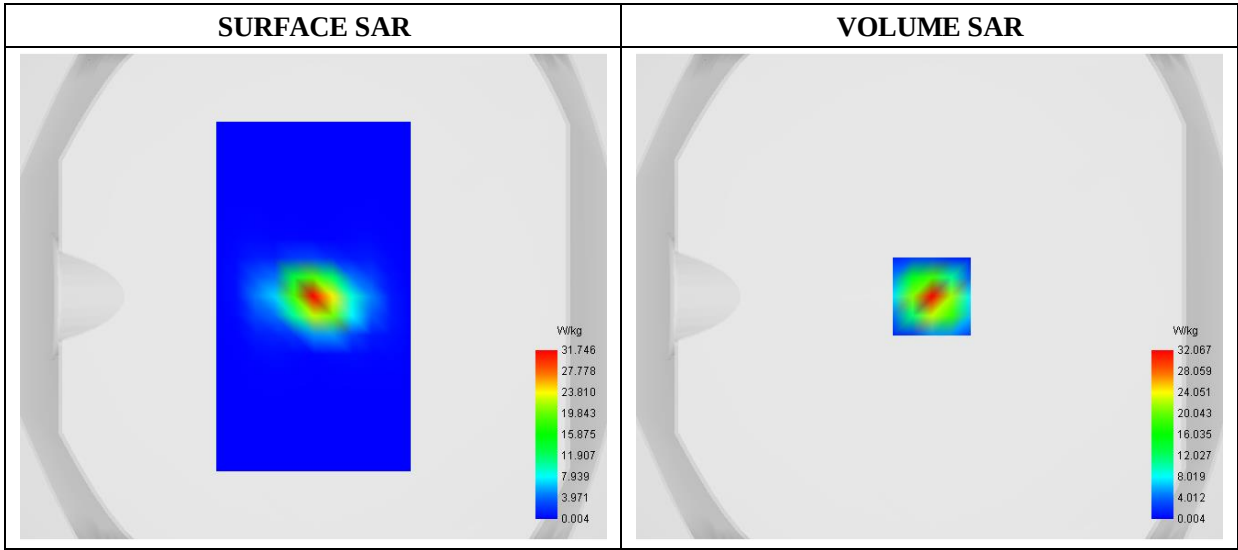
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Signal	Duty Cycle 1:1

B. SAR Measurement Results

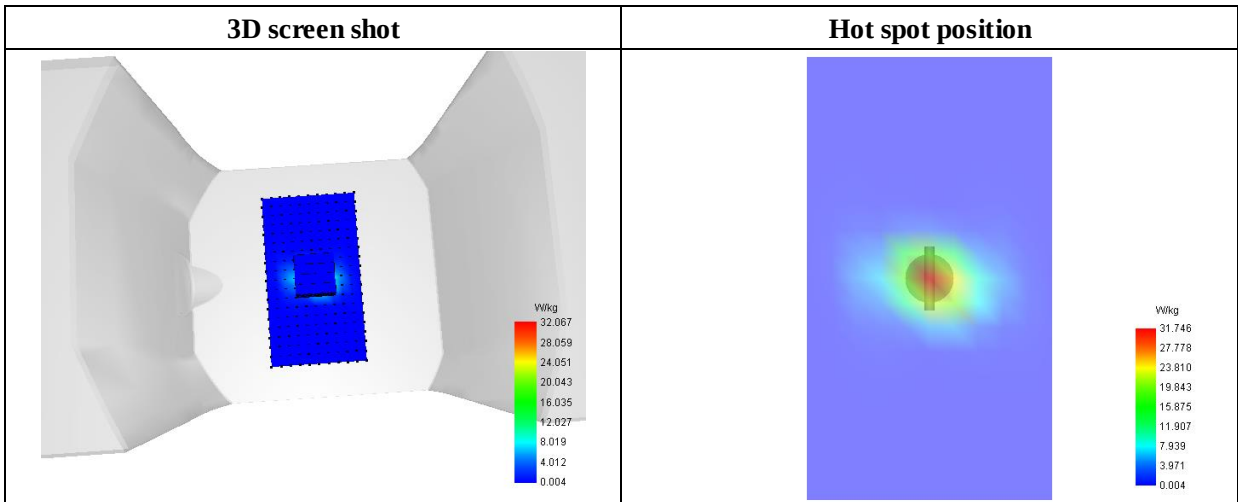
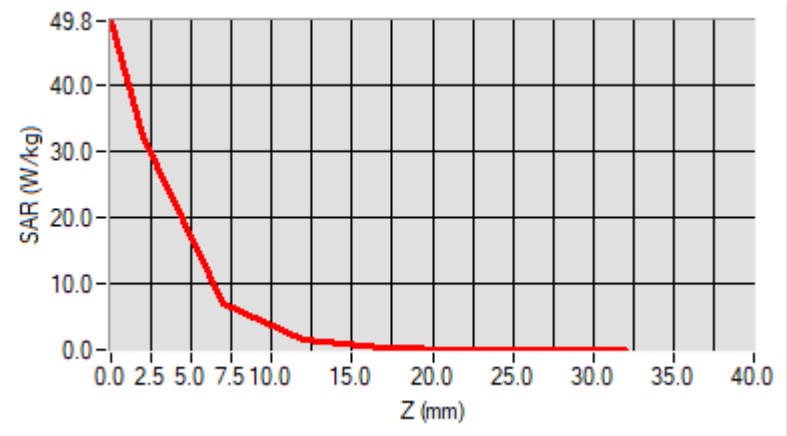
Frequency (MHz)	5200.000000
Relative Permittivity (real part)	50.051241
Conductivity (S/m)	5.210213
Power Variation (%)	1.149204
Ambient Temperature	22.0
Liquid Temperature	22.3



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	6.034568
SAR 1g (W/Kg)	16.602175

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	49.8193	32.0669	7.0244	1.5969	0.3410	0.0635	0.0070



MEASUREMENT 16

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

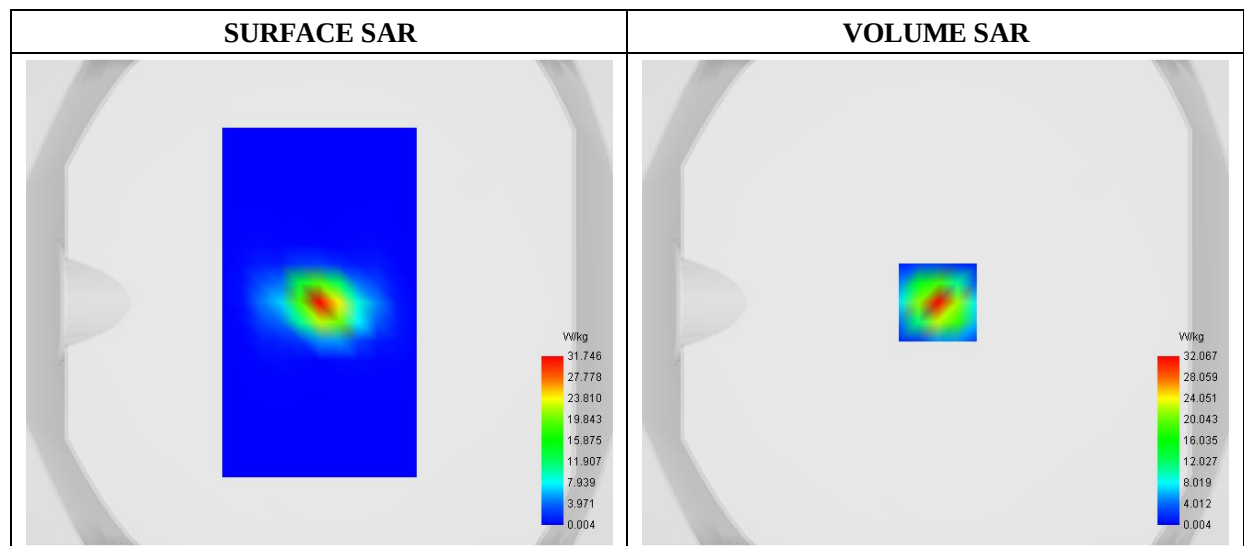
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Signal	Duty Cycle 1:1

B. SAR Measurement Results

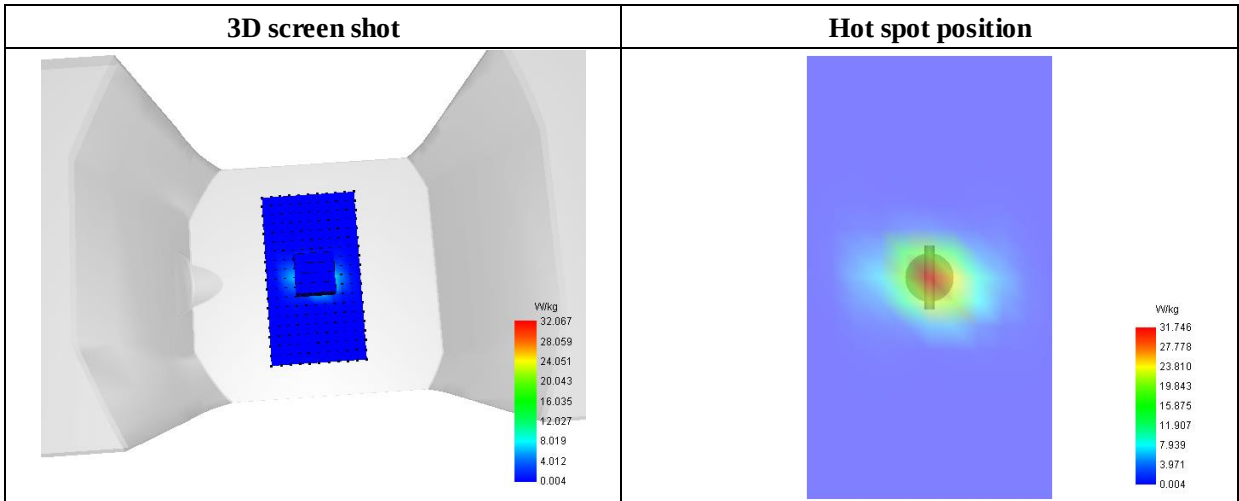
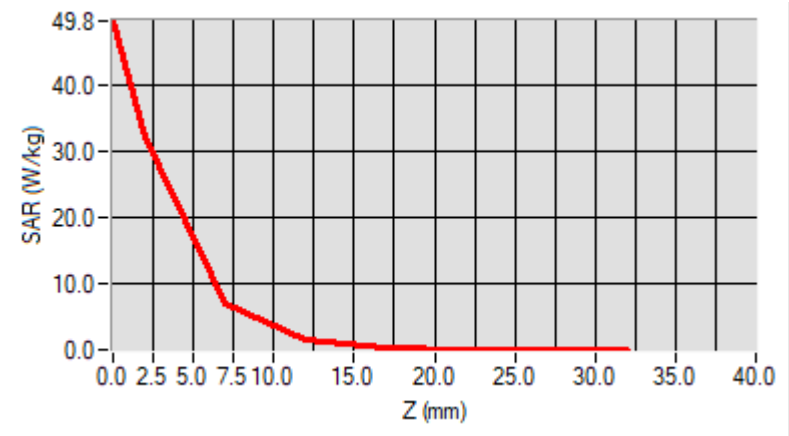
Frequency (MHz)	5800.000000
Relative Permittivity (real part)	47.851939
Conductivity (S/m)	5.880487
Power Variation (%)	1.309201
Ambient Temperature	22.0
Liquid Temperature	22.3



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	6.014506
SAR 1g (W/Kg)	16.418175

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	49.8193	32.0669	7.0244	1.5969	0.3410	0.0635	0.0070



Annex B. Plots of SAR Measurement

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
Phone	GSM850	<u>Measurement 1</u> : Right Head with Cheek device position on Low Channel in GSM mode
Phone	GSM1900	<u>Measurement 4</u> : Right Head with Cheek device position on Low Channel in GSM mode
Phone	WCDMA1900_RMC	<u>Measurement 9</u> : Right Head with Cheek device position on High Channel in WCDMA mode
Phone	WCDMA1700_RMC	<u>Measurement 13</u> : Right Head with Cheek device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 17</u> : Right Head with Cheek device position on Low Channel in WCDMA mode
Phone	LTE Band 2_QPSK	<u>Measurement 21</u> : Right Head with Cheek device position on Low Channel in LTE mode
Phone	LTE Band 4_QPSK	<u>Measurement 29</u> : Right Head with Cheek device position on Low Channel in LTE mode
Phone	LTE Band 5_ QPSK	<u>Measurement 37</u> : Right Head with Cheek device position on Middle Channel in LTE mode
Phone	LTE Band 7_ QPSK	<u>Measurement 45</u> : Right Head with Cheek device position on Low Channel in LTE mode
Phone	LTE Band 17_ QPSK	<u>Measurement 53</u> : Right Head with Cheek device position on Low Channel in LTE mode
Phone	2.4GWiFi_802.11b	<u>Measurement 63</u> : Left Head with Cheek device position on Low Channel in 802.11b mode
Phone	5.2G WiFi_802.11a	<u>Measurement 65</u> : Right Head with Cheek device position on High Channel in 802.11a mode
Phone	5.8G WiFi_802.11n (HT40)	<u>Measurement 71</u> : Right Head with Cheek device position on Low Channel in 802.11n mode
Phone	GSM850	<u>Measurement 74</u> : Flat Plane with Front device position on Low Channel in GSM mode
Phone	GSM1900	<u>Measurement 75</u> : Flat Plane with Back device position on Low Channel in GSM mode
Phone	GPRS850_3TX	<u>Measurement 109</u> : Flat Plane with Back device position on Middle Channel in GPRS mode
Phone	GPRS1900_3TX	<u>Measurement 114</u> : Flat Plane with Back device position on High Channel in GPRS mode
Phone	WCDMA1900_RMC	<u>Measurement 77/118</u> : Flat Plane with Back side device position on High Channel in WCDMA mode

Phone	WCDMA1700_RMC	<u>Measurement 79/122:</u> Flat Plane with Back side device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 81/126:</u> Flat Plane with Back side device position on Low Channel in WCDMA mode
Phone	LTE Band 2_QPSK	<u>Measurement 83/131:</u> Flat Plane with Back device position on Low Channel in LTE mode
Phone	LTE Band 4_QPSK	<u>Measurement 87/139:</u> Flat Plane with Back device position on Low Channel in LTE mode
Phone	LTE Band 5_ QPSK	<u>Measurement 91/147:</u> Flat Plane with Back device position on Middle Channel in LTE mode
Phone	LTE Band 7_ QPSK	<u>Measurement 96/158:</u> Flat Plane with Front device position on Low Channel in LTE mode
Phone	LTE Band 17_ QPSK	<u>Measurement 100/166:</u> Flat Plane with Front device position on Low Channel in LTE mode
Phone	2.4GWiFi_802.11b	<u>Measurement 103/175:</u> Flat Plane with Back side device position on Low Channel in 802.11b mode
Phone	5.2G WiFi_802.11a	<u>Measurement 105:</u> Flat Plane with Back side device position on High Channel in 802.11a mode
Phone	5.2G WiFi_802.11a	<u>Measurement 181:</u> Flat Plane with Right side device position on High Channel in 802.11a mode
Phone	5.8G WiFi_802.11n (HT40)	<u>Measurement 108/184:</u> Flat Plane with Front side device position on Low Channel in 802.11n mode
<i>Remark: SAR plot is showed the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.</i>		

MEASUREMENT 1

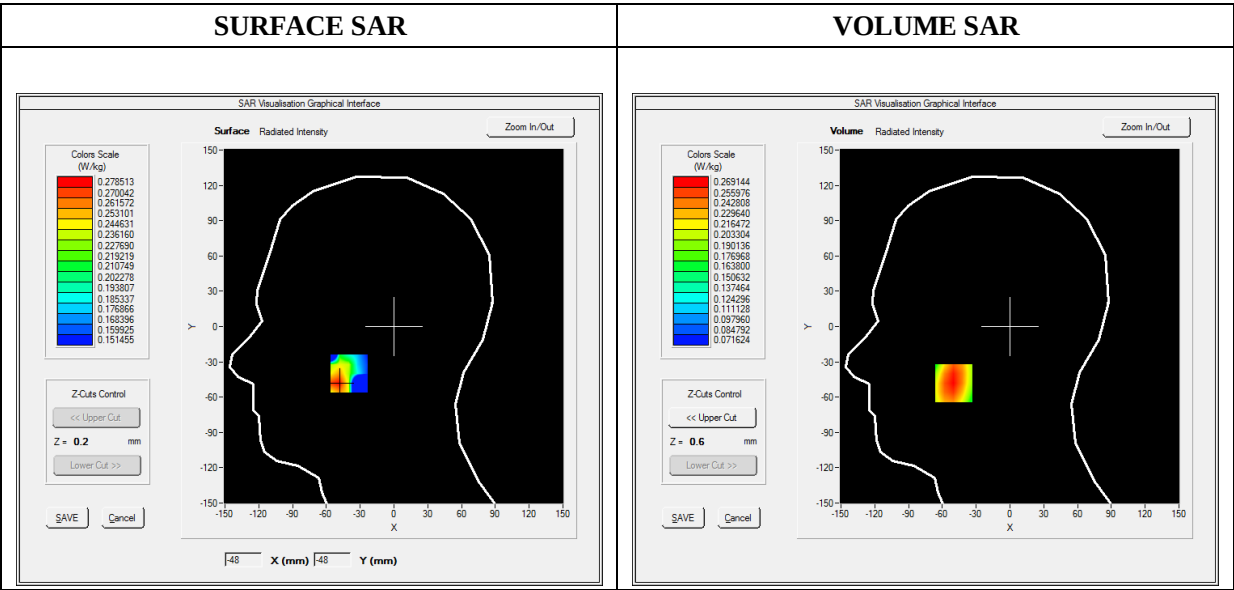
Type: Phone measurement (Complete)
Date of measurement: 2020-10-29
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

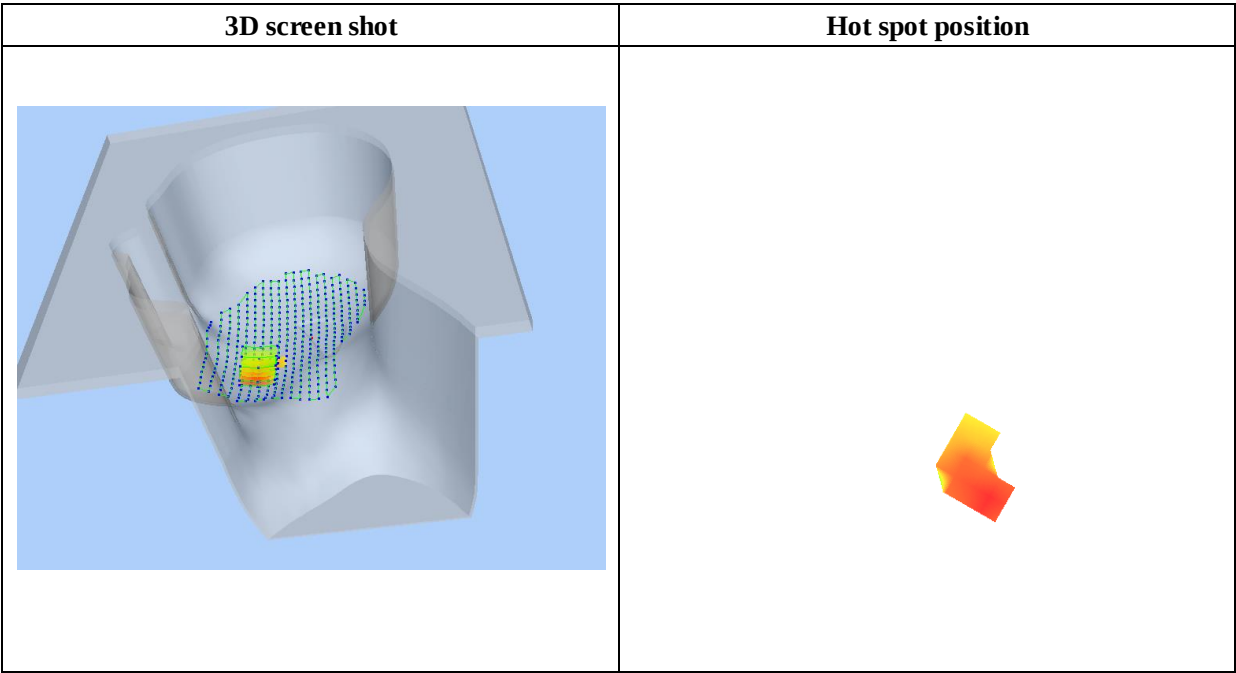
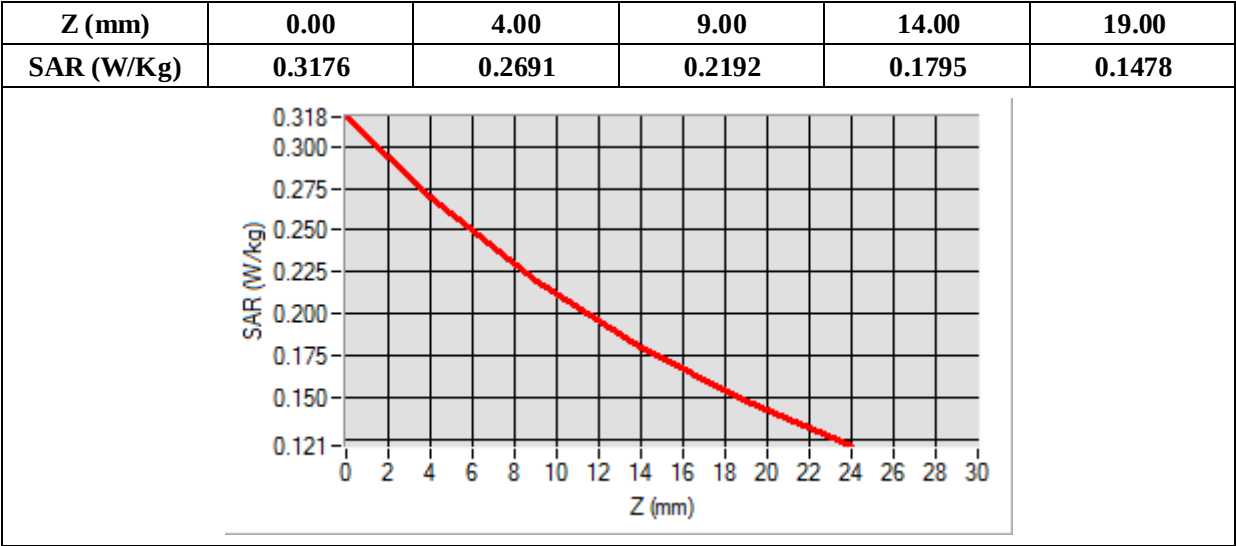
Frequency (MHz)	824.200000
Relative Permittivity (real part)	40.820245
Conductivity (S/m)	0.871245
Power Variation (%)	1.074536
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-50.00, Y=-48.00

SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.203528
SAR 1g (W/Kg)	0.261785



MEASUREMENT 5

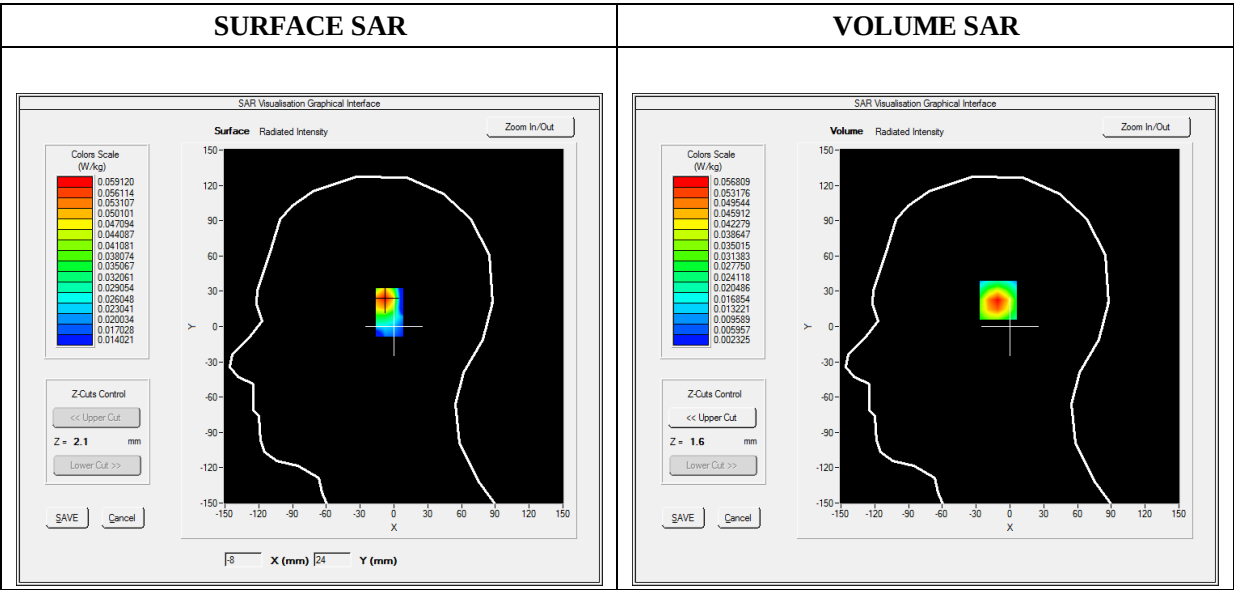
Type: Phone measurement (Complete)
Date of measurement: 2020-11-09
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

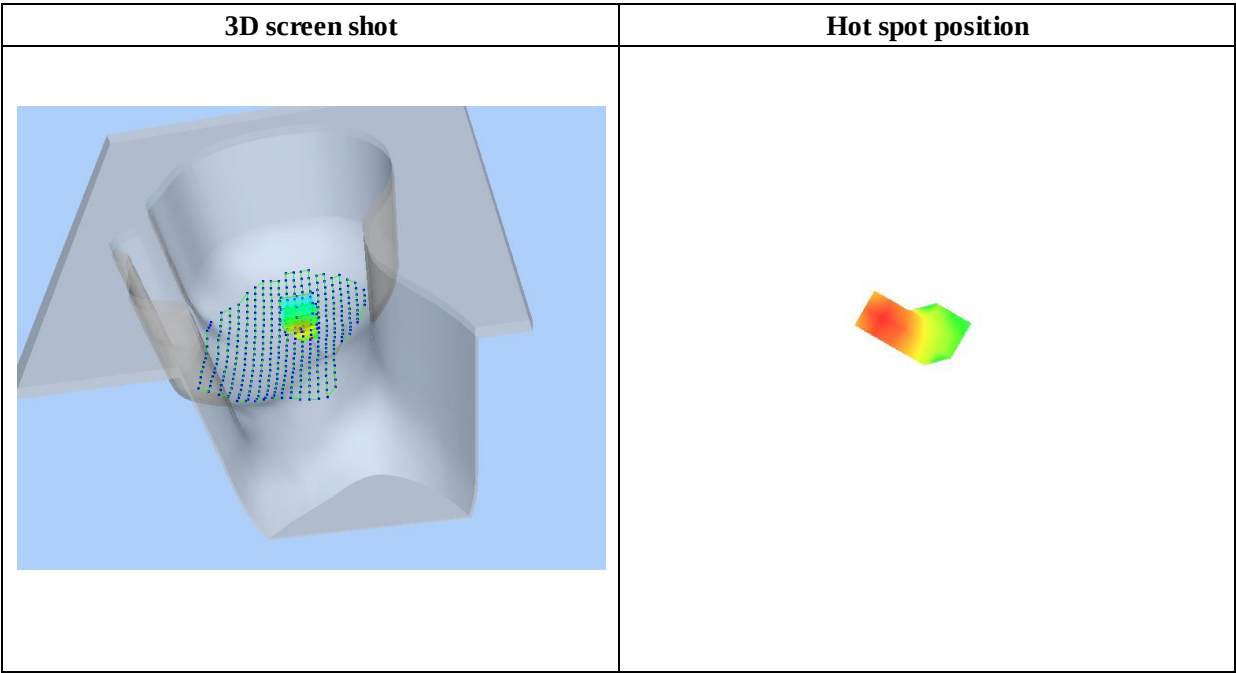
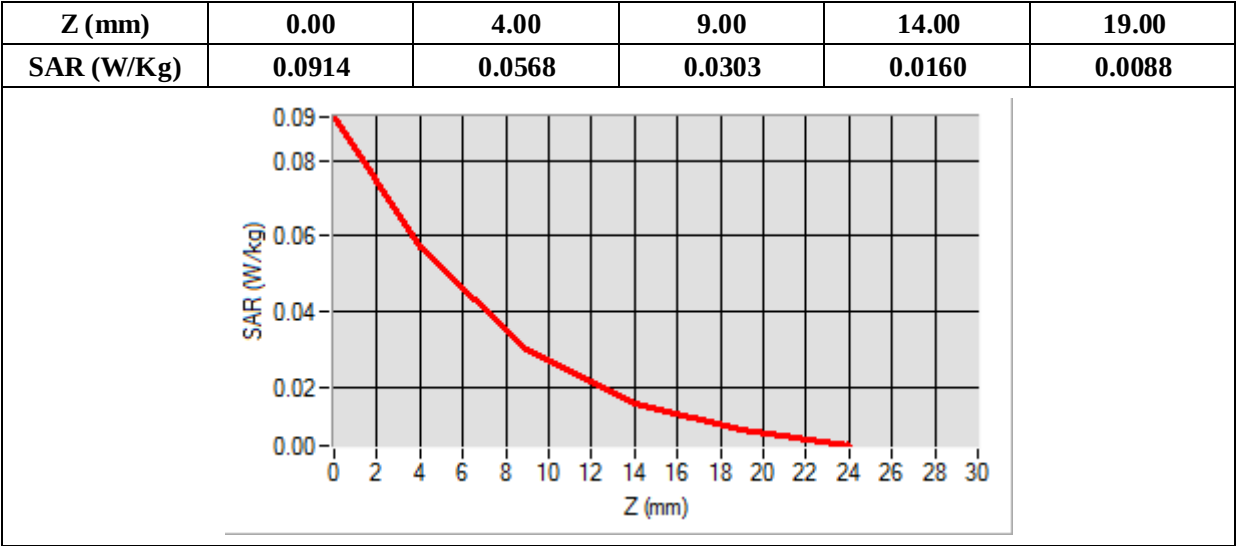
Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.260124
Conductivity (S/m)	1.385369
Power Variation (%)	-0.150000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-9.00, Y=24.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.028013
SAR 1g (W/Kg)	0.053326



MEASUREMENT 9

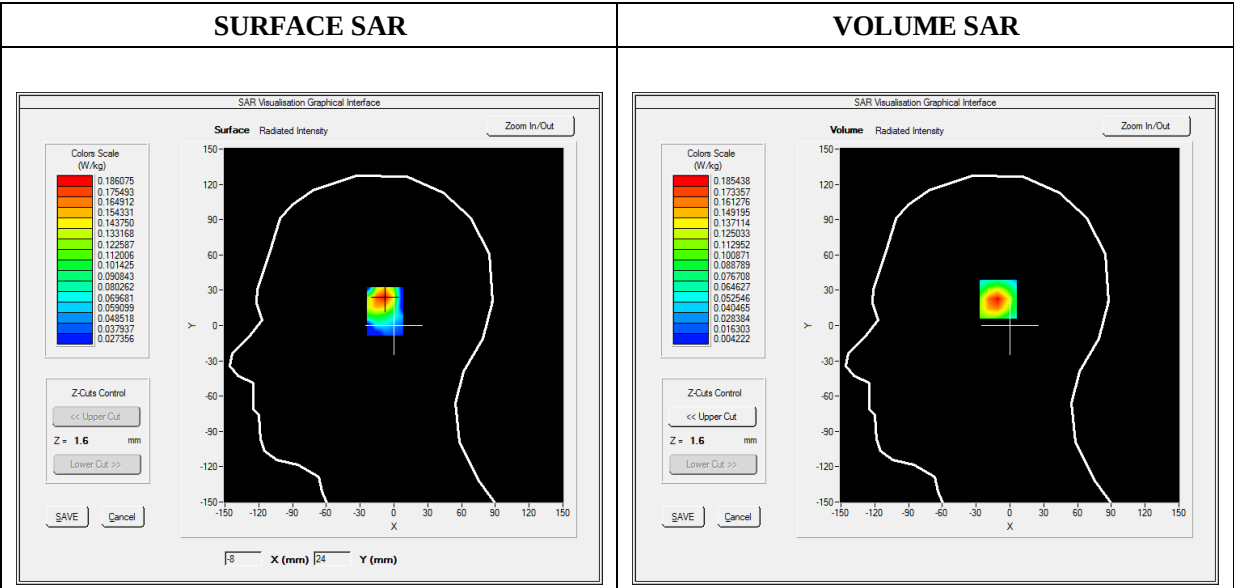
Type: Phone measurement (Complete)
Date of measurement: 2020-11-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA1900_RMC
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

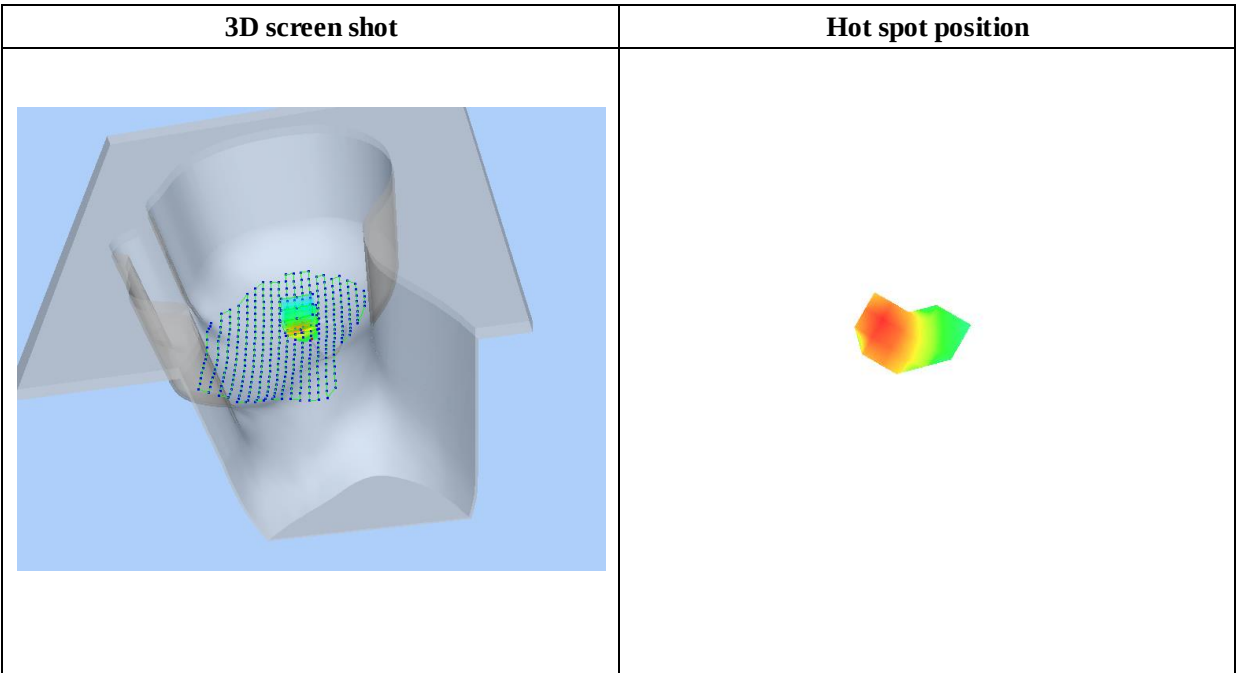
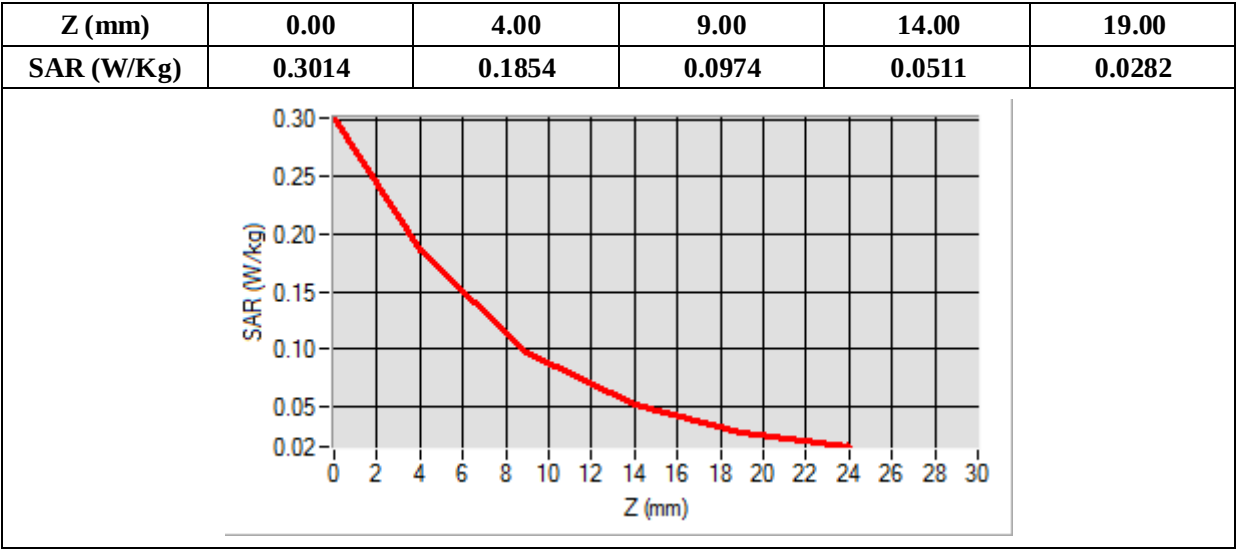
Frequency (MHz)	1907.600000
Relative Permittivity (real part)	39.060124
Conductivity (S/m)	1.393607
Power Variation (%)	0.820000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-9.00, Y=24.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.089792
SAR 1g (W/Kg)	0.173494



MEASUREMENT 13

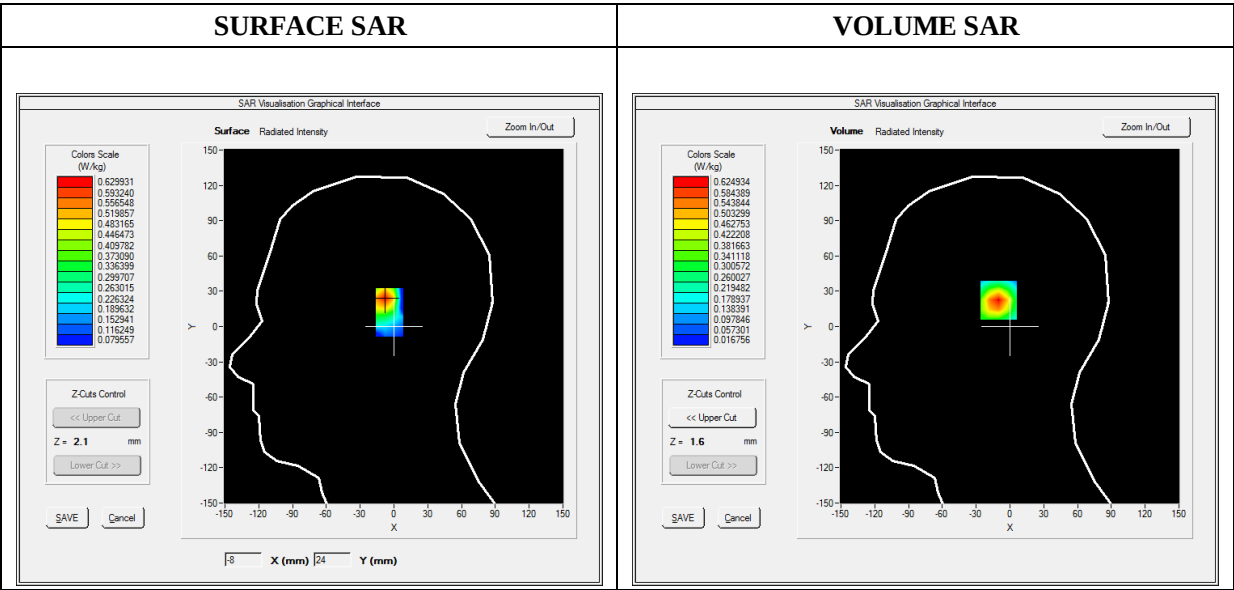
Type: Phone measurement (Complete)
Date of measurement: 2020-11-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA1700_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

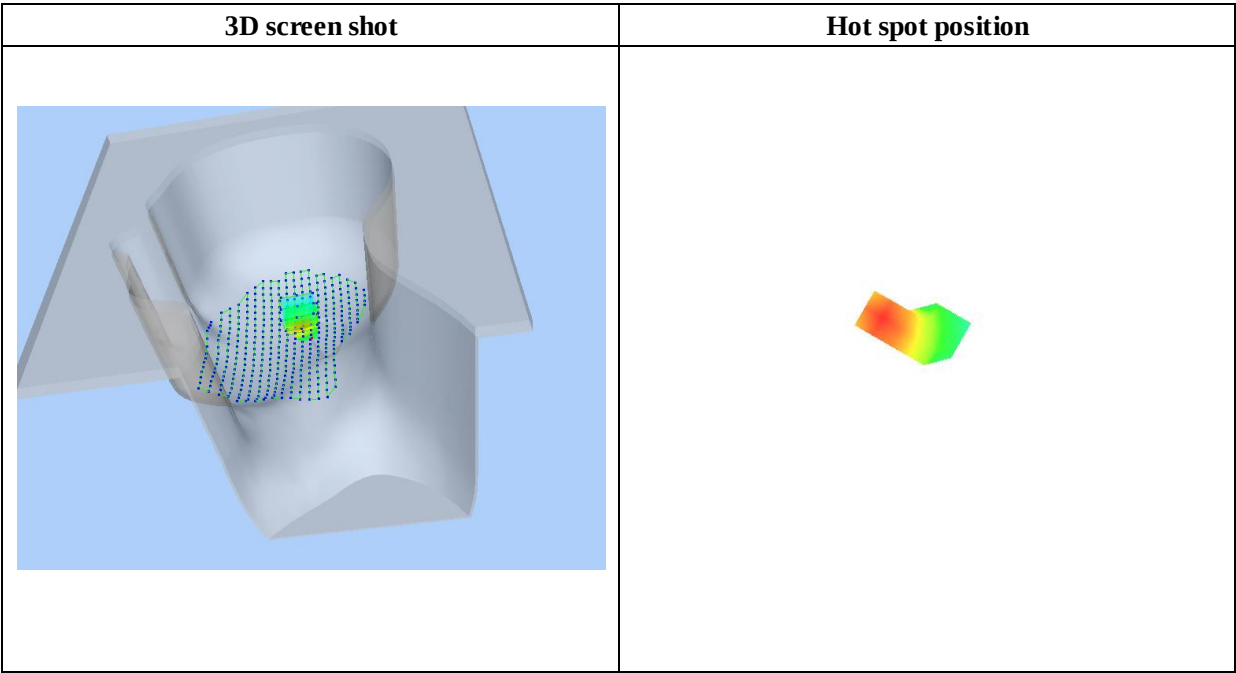
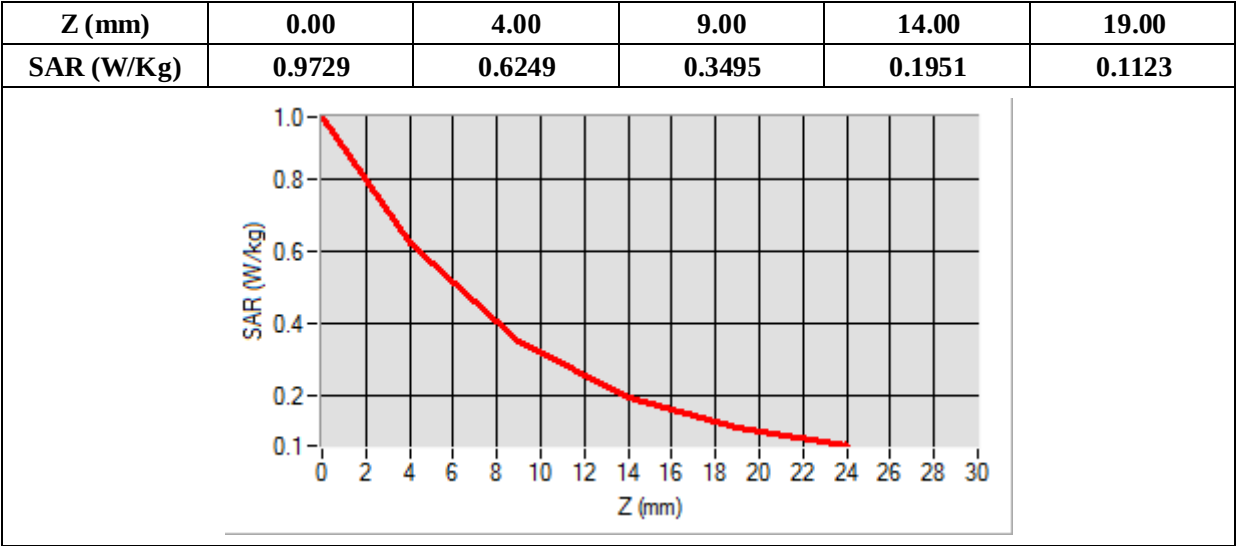
Frequency (MHz)	1712.400000
Relative Permittivity (real part)	40.132275
Conductivity (S/m)	1.350987
Power Variation (%)	-1.200000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-8.00, Y=24.00

SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.305379
SAR 1g (W/Kg)	0.580103



MEASUREMENT 17

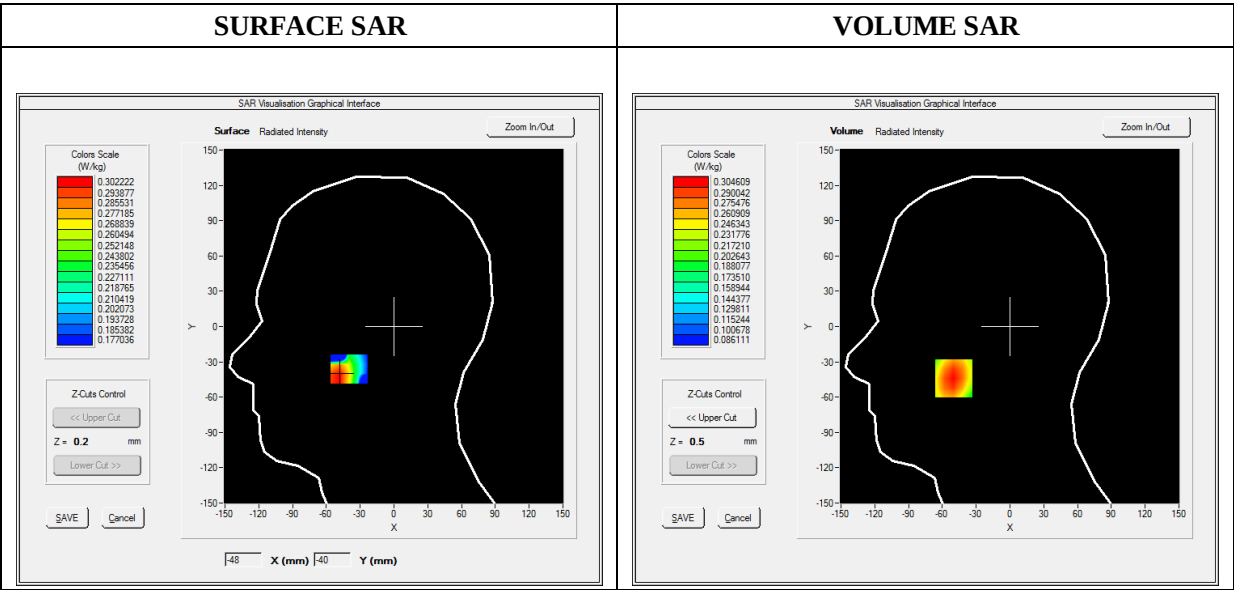
Type: Phone measurement (Complete)
Date of measurement: 2020-10-29
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA850_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

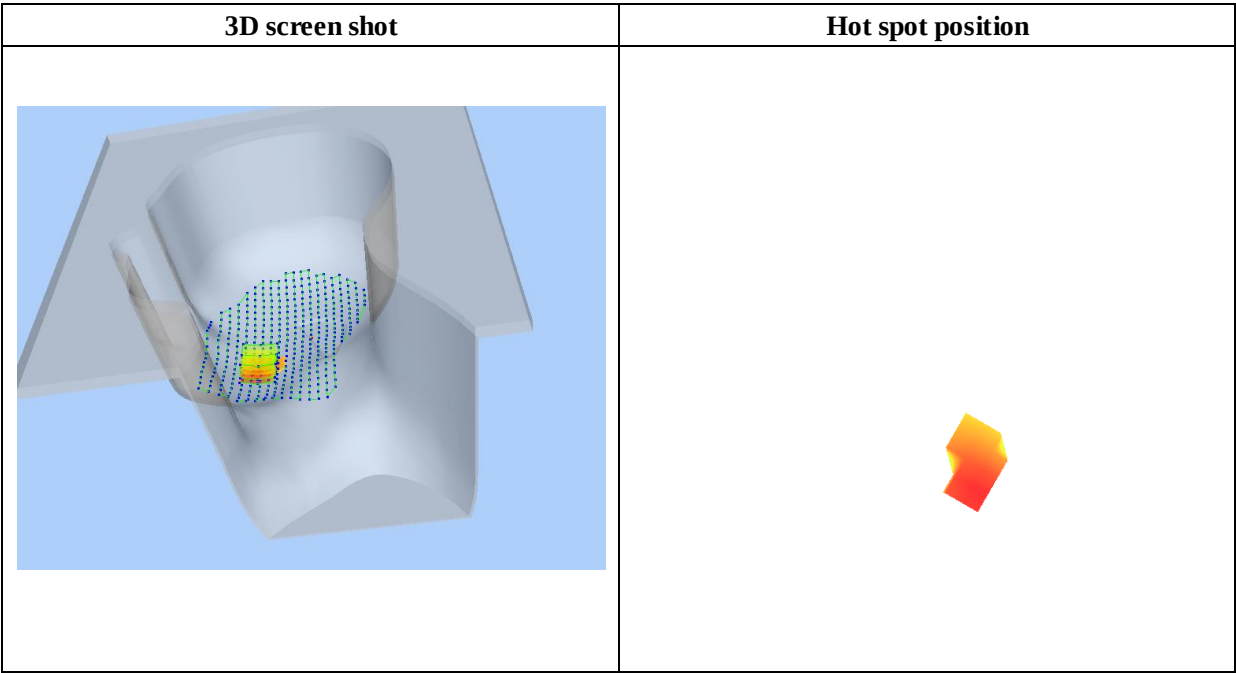
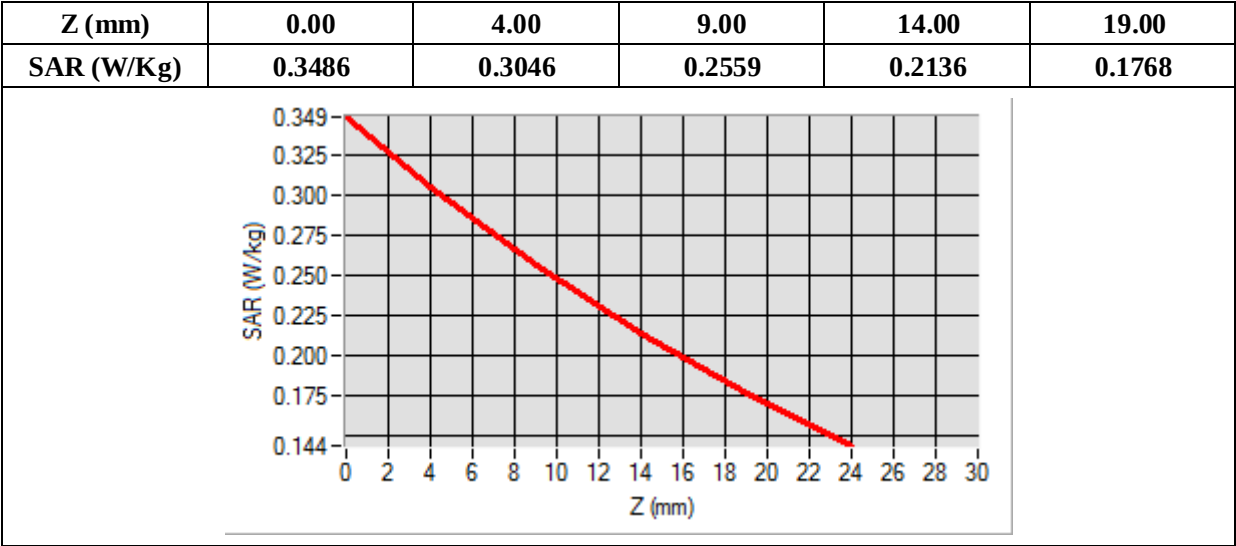
Frequency (MHz)	826.400000
Relative Permittivity (real part)	40.820245
Conductivity (S/m)	0.871245
Power Variation (%)	-1.360000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-50.00, Y=-44.00

SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.231397
SAR 1g (W/Kg)	0.294684



MEASUREMENT 21

Type: Phone measurement (Complete)

Date of measurement: 2020-11-09

Measurement duration: 12 minutes 3 seconds

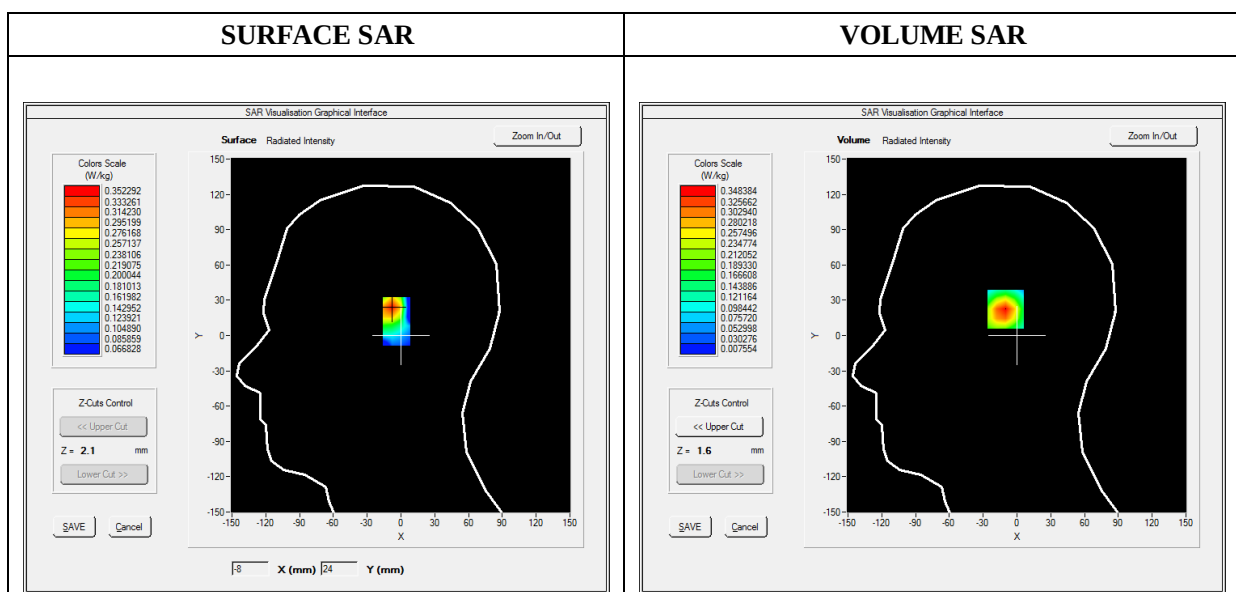
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2
Channels	QPSK, 20MHz, 1RB,Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

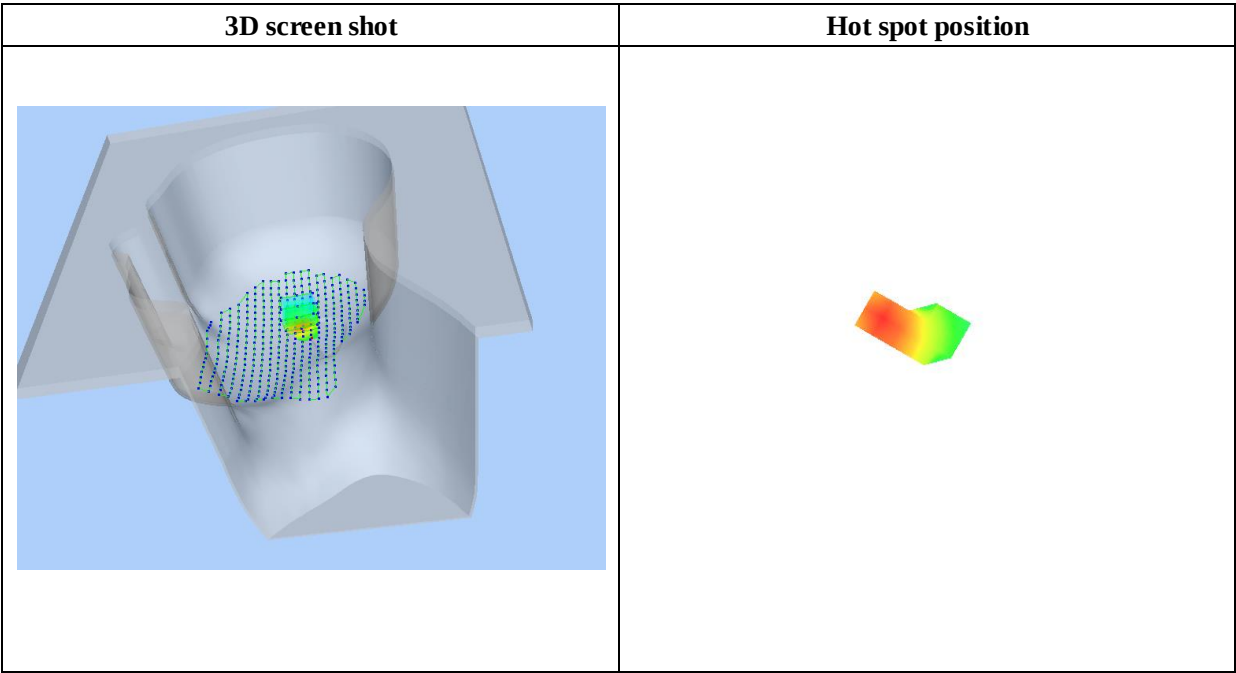
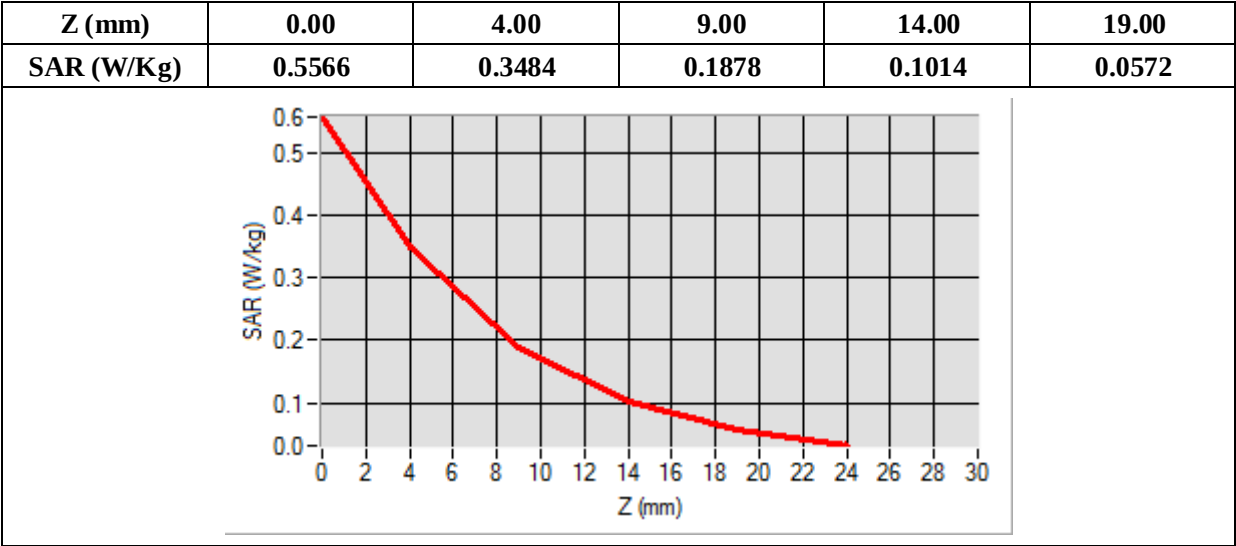
Frequency (MHz)	1860.000000
Relative Permittivity (real part)	39.260124
Conductivity (S/m)	1.385369
Power Variation (%)	-1.340000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-8.00, Y=24.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.172411
SAR 1g (W/Kg)	0.326874



MEASUREMENT 29

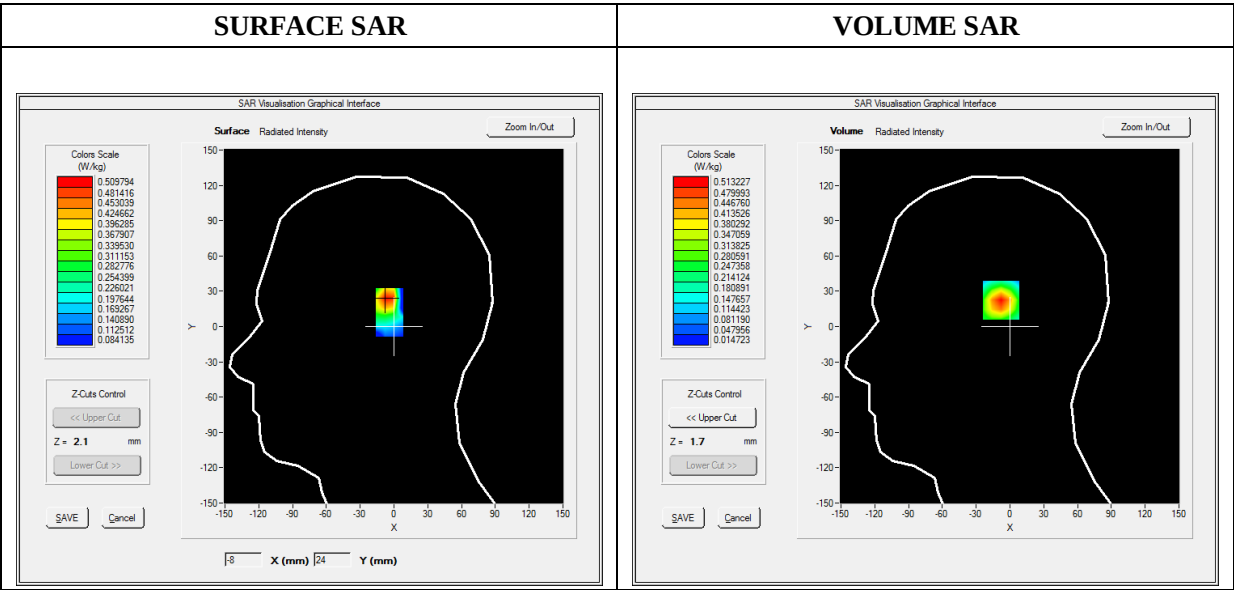
Type: Phone measurement (Complete)
Date of measurement: 2020-11-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 4
Channels	QPSK, 20MHz, 1RB,Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

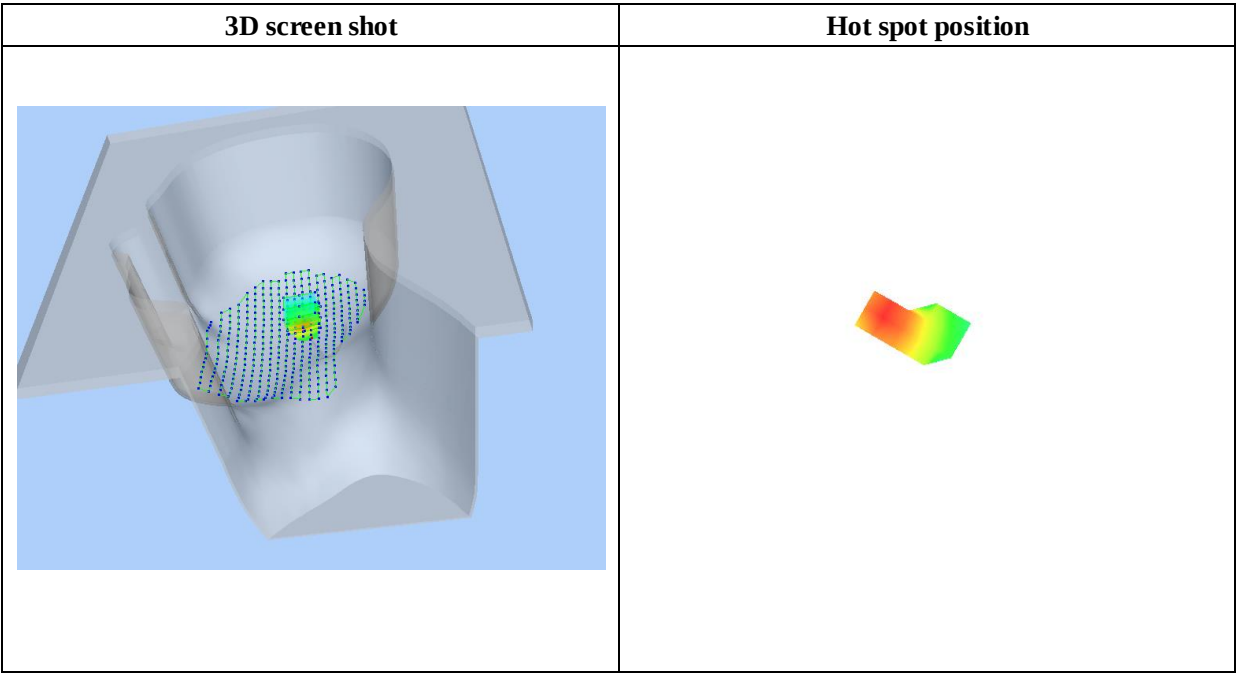
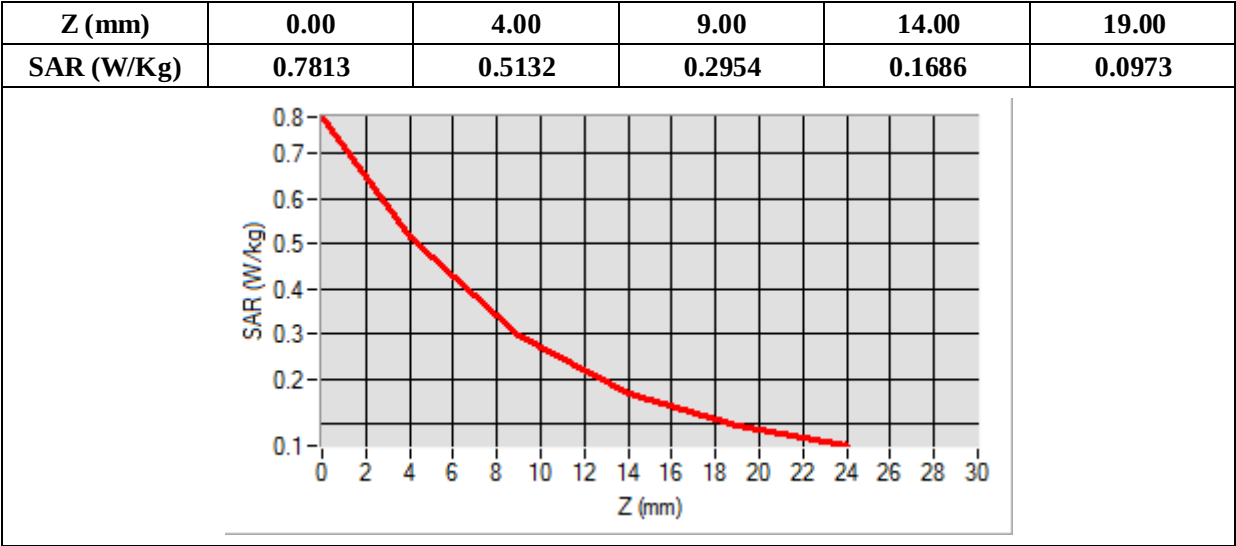
Frequency (MHz)	1720.000000
Relative Permittivity (real part)	40.132275
Conductivity (S/m)	1.350987
Power Variation (%)	0.080000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-6.00, Y=24.00

SAR Peak: 0.78 W/kg

SAR 10g (W/Kg)	0.255568
SAR 1g (W/Kg)	0.476148



MEASUREMENT 37

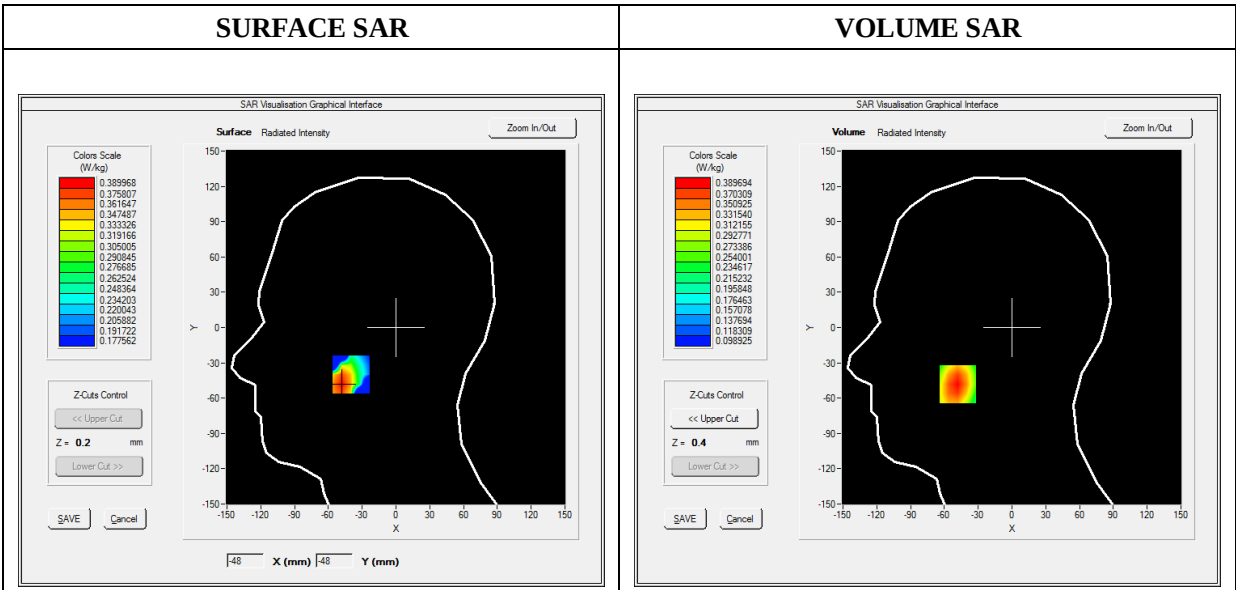
Type: Phone measurement (Complete)
Date of measurement: 2020-10-29
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

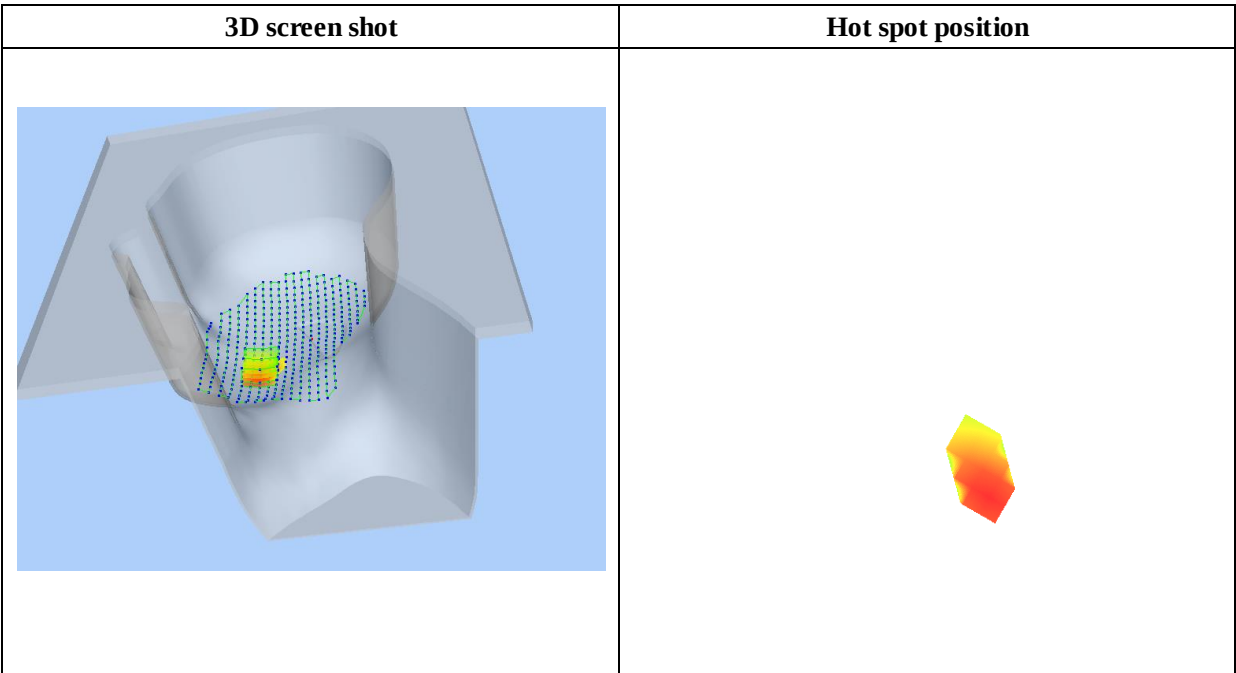
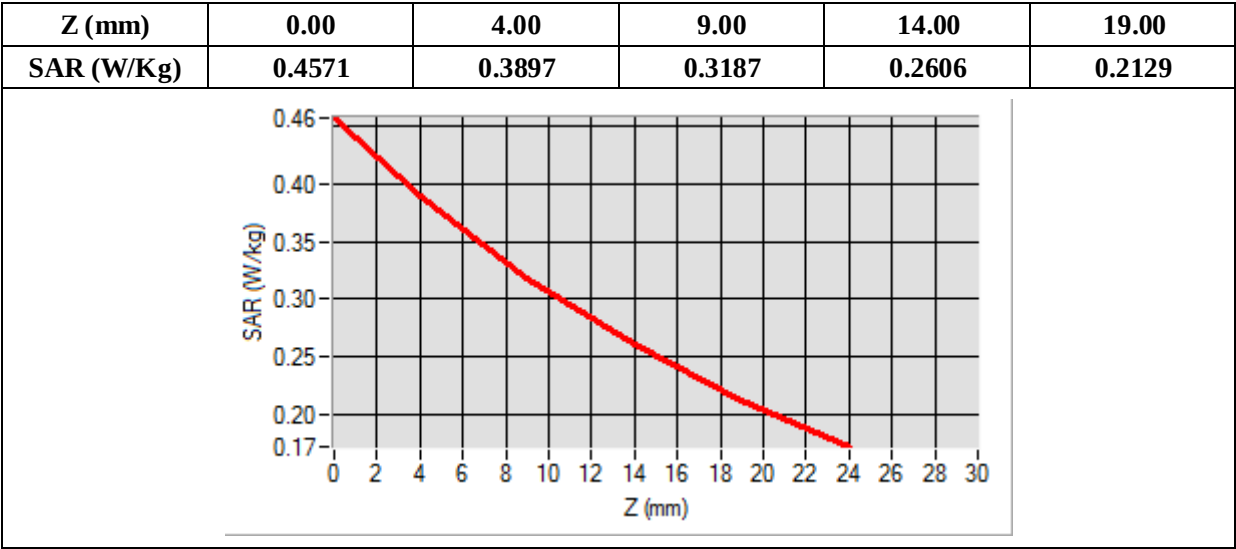
Frequency (MHz)	836.500000
Relative Permittivity (real part)	40.750245
Conductivity (S/m)	0.881245
Power Variation (%)	-0.870000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-48.00, Y=-48.00

SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.286708
SAR 1g (W/Kg)	0.375628



MEASUREMENT 45

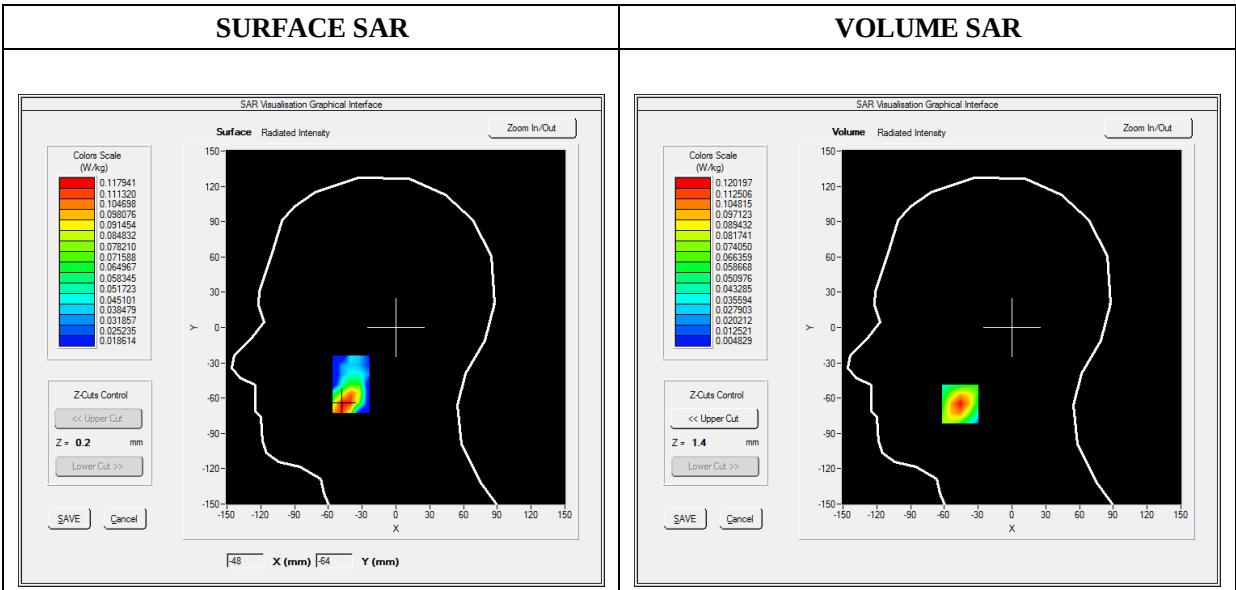
Type: Phone measurement (Complete)
Date of measurement: 2020-11-10
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 7
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

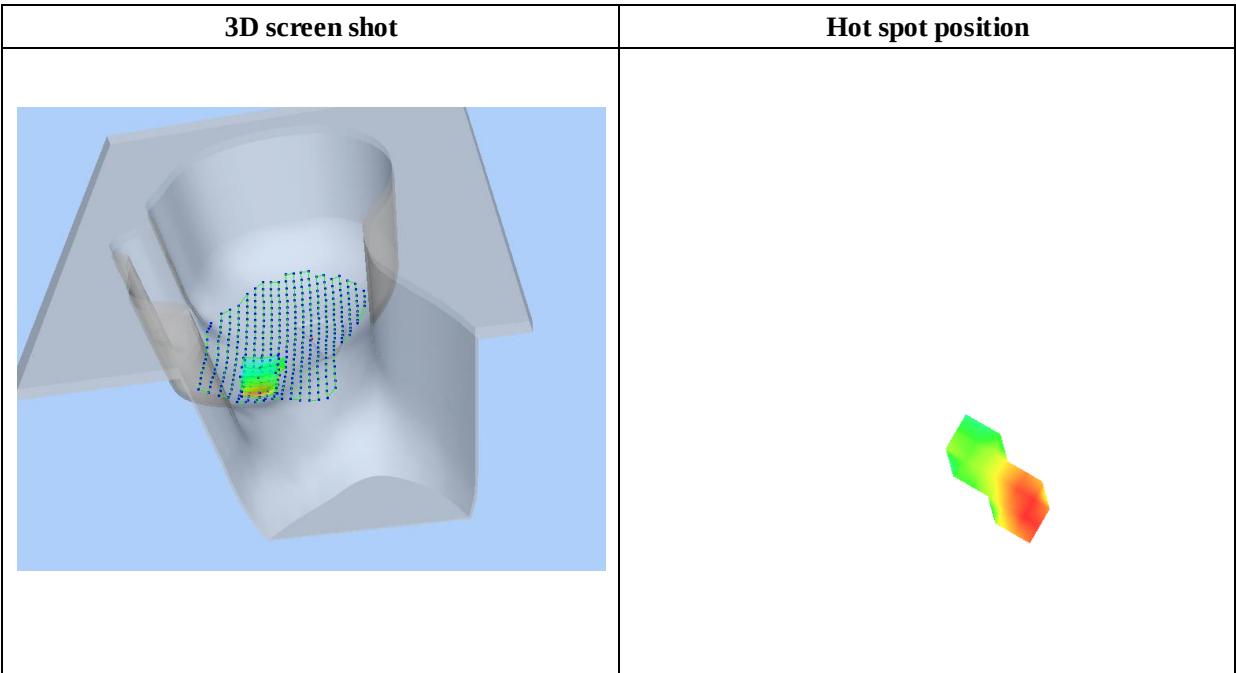
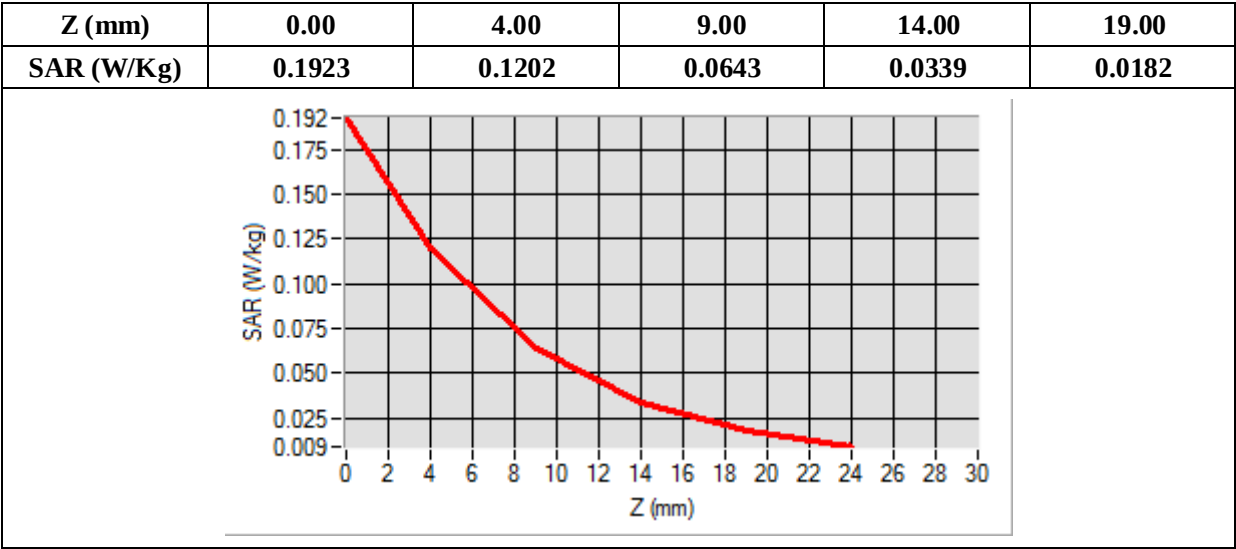
Frequency (MHz)	2510.000000
Relative Permittivity (real part)	38.256667
Conductivity (S/m)	1.920182
Power Variation (%)	-0.700000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-46.00, Y=-65.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.057301
SAR 1g (W/Kg)	0.111457



MEASUREMENT 53

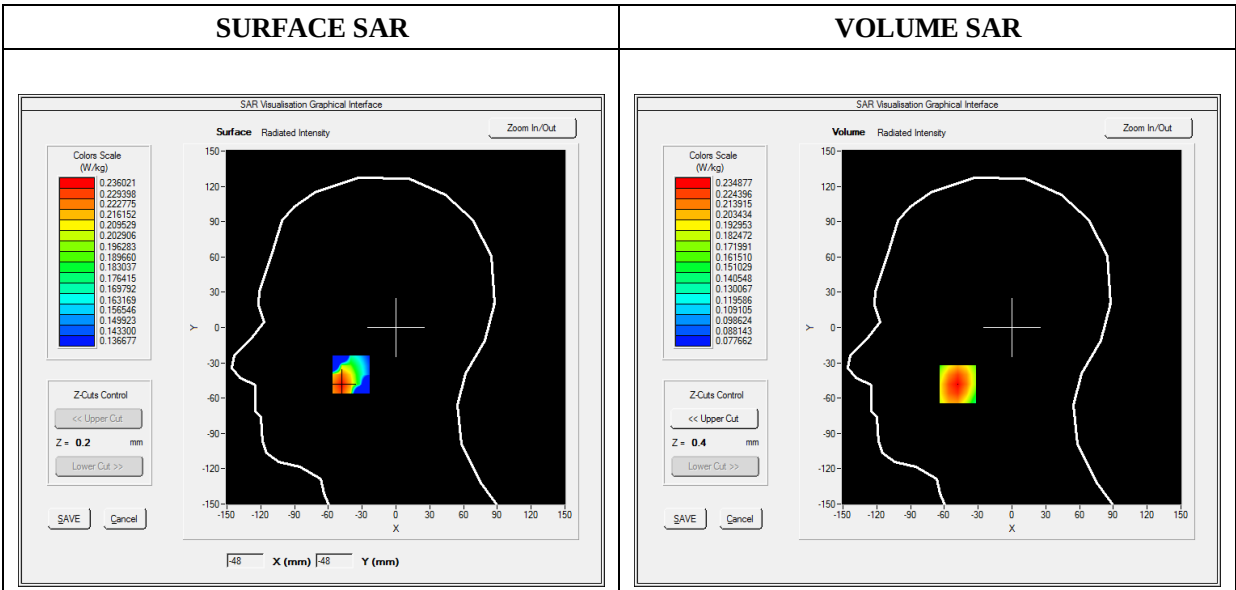
Type: Phone measurement (Complete)
Date of measurement: 2020-10-29
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 17
Channels	QPSK, 10MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

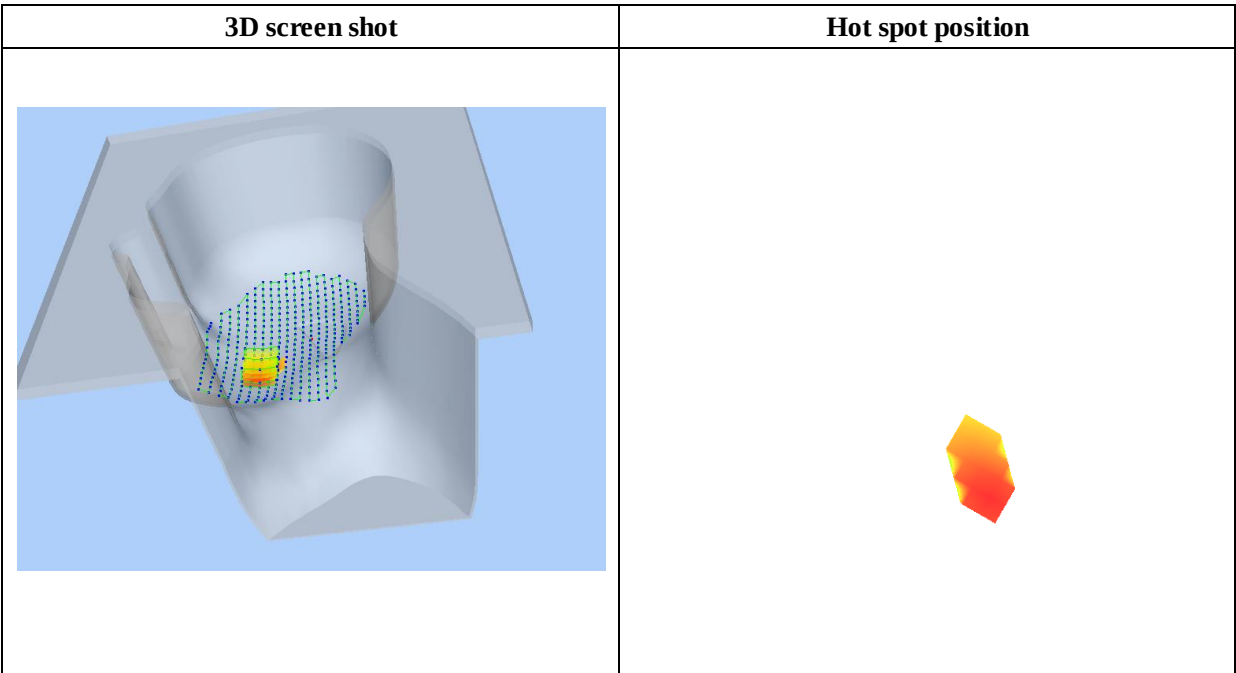
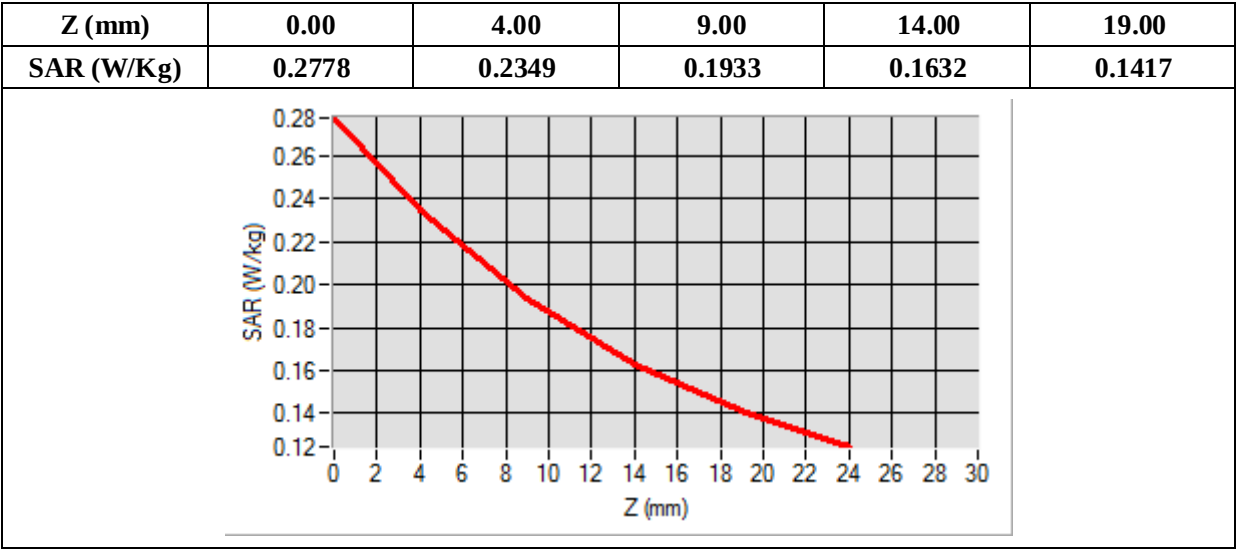
Frequency (MHz)	709.000000
Relative Permittivity (real part)	41.218668
Conductivity (S/m)	0.853696
Power Variation (%)	-1.050000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-48.00, Y=-48.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.183020
SAR 1g (W/Kg)	0.232187



MEASUREMENT 63

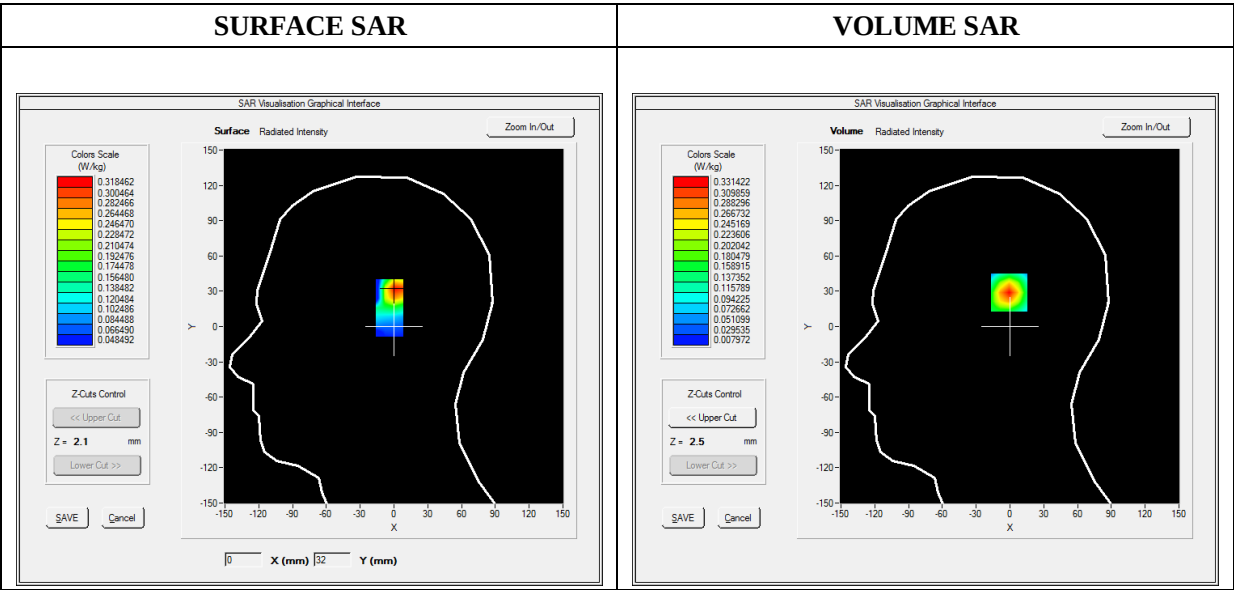
Type: Phone measurement (Complete)
Date of measurement: 2020-11-10
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	WiFi_802.11b
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

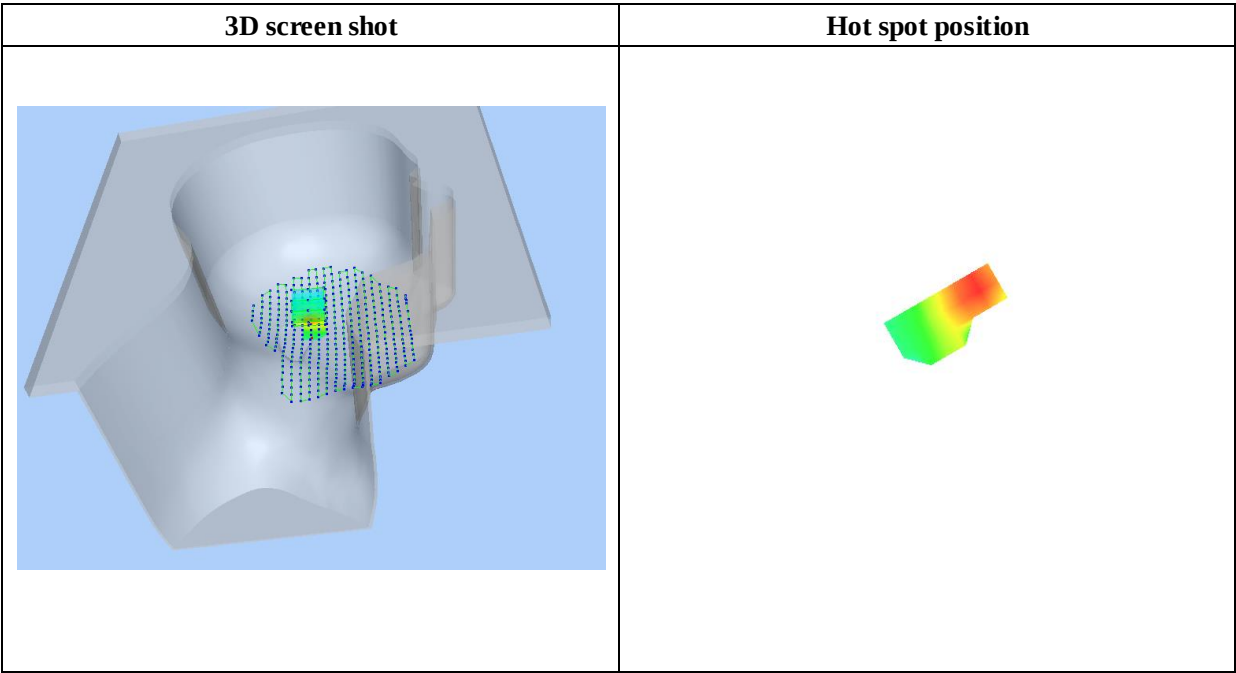
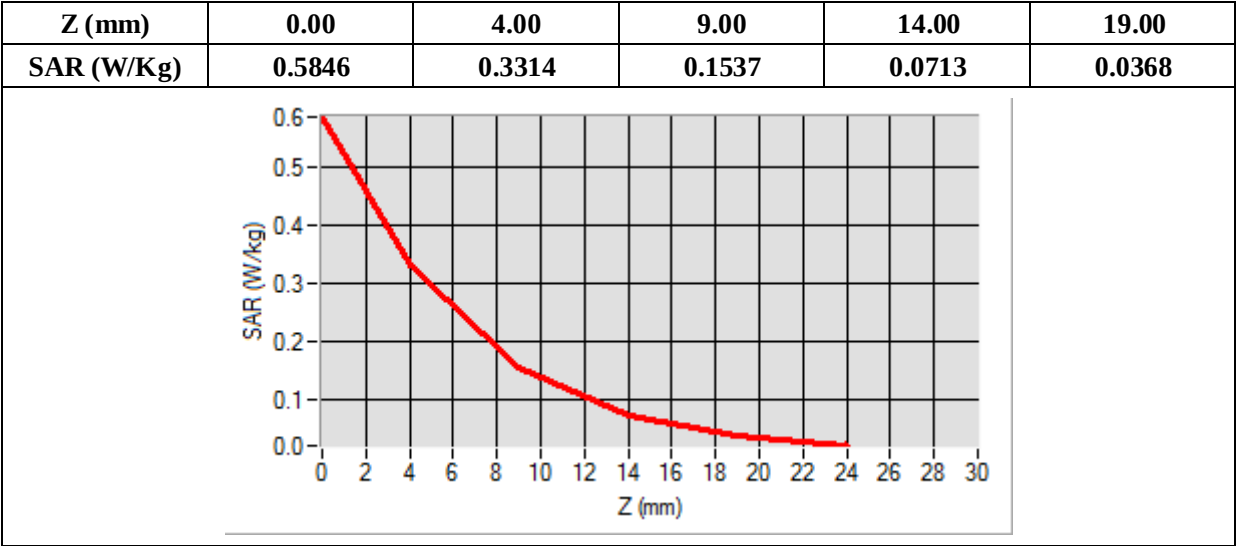
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.726001
Conductivity (S/m)	1.756388
Power Variation (%)	-0.960000
Ambient Temperature	22.0
Liquid Temperature	22.0



Maximum location: X=2.00, Y=31.00

SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.146641
SAR 1g (W/Kg)	0.307968



MEASUREMENT 65

Type: Phone measurement (Complete)

Date of measurement: 2020-11-13

Measurement duration: 12 minutes 3 seconds

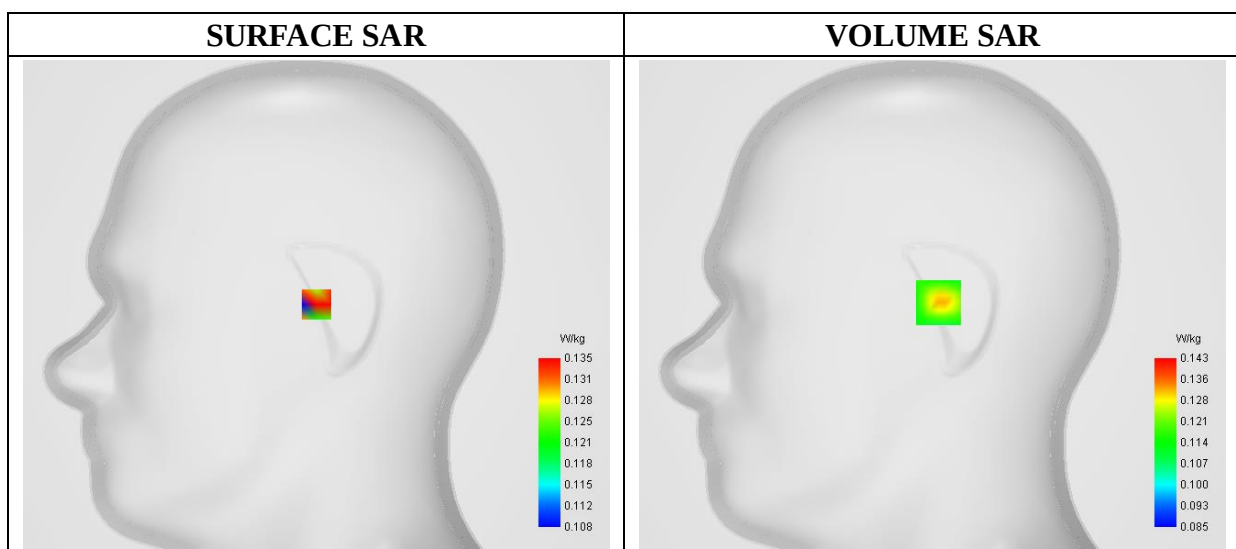
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	5.2GWiFi_802.11a
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

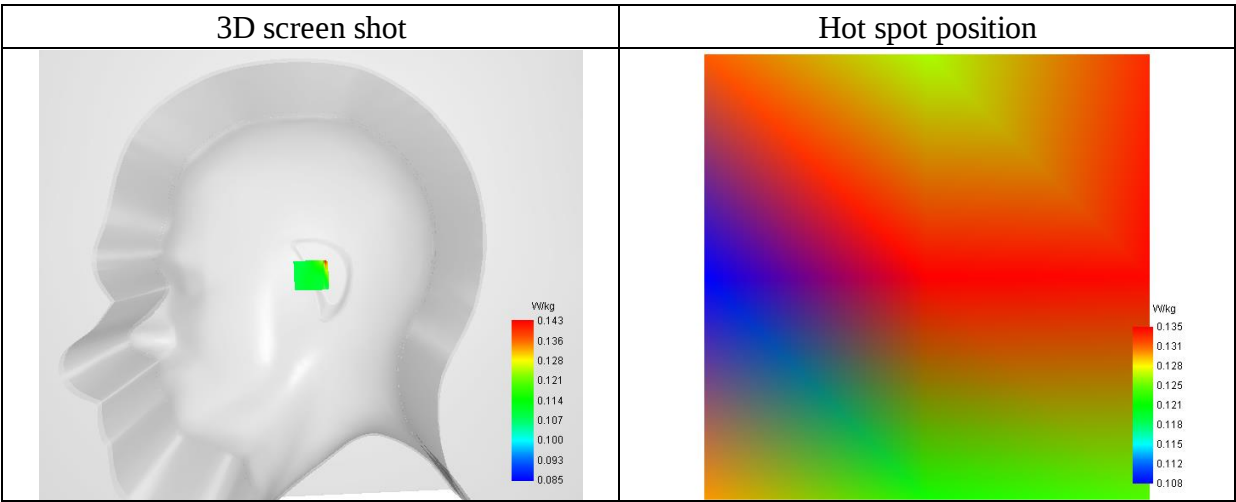
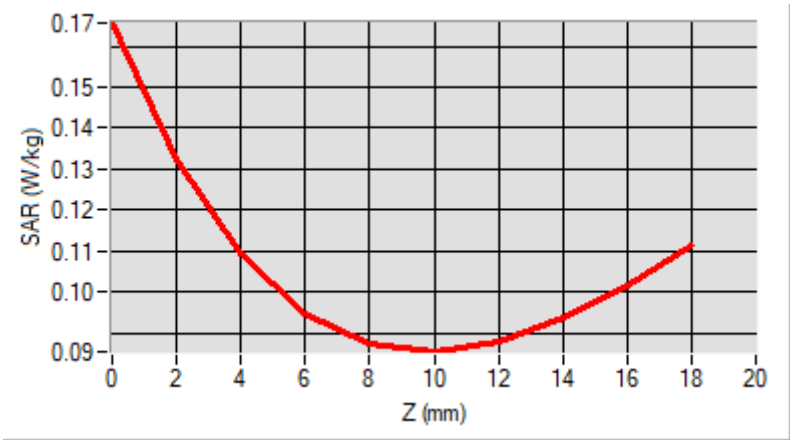
Frequency (MHz)	5240.000000
Relative Permittivity (real part)	35.559999
Conductivity (S/m)	4.792698
Power Variation (%)	-1.240000
Ambient Temperature	22.0
Liquid Temperature	22.0



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	0.116475
SAR 1g (W/Kg)	0.139835

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.1657	0.1322	0.1092	0.0945	0.0872	0.0854	0.0878	0.0935	0.1016



MEASUREMENT 71

Type: Phone measurement (Complete)

Date of measurement: 2020-11-13

Measurement duration: 12 minutes 3 seconds

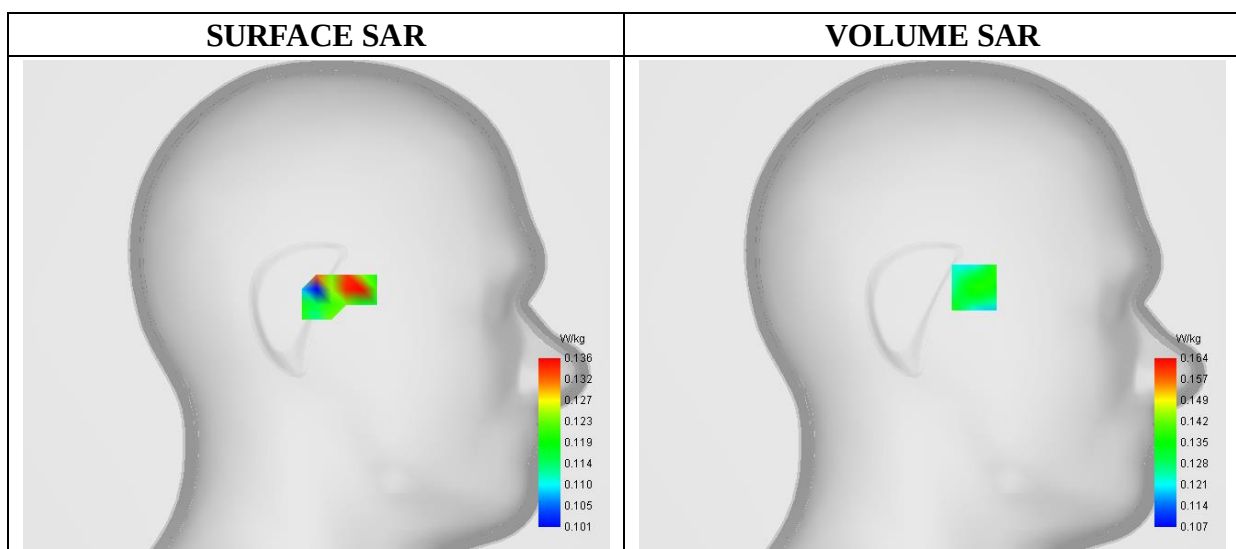
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	5.2GWiFi_802.11 n (HT40)
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

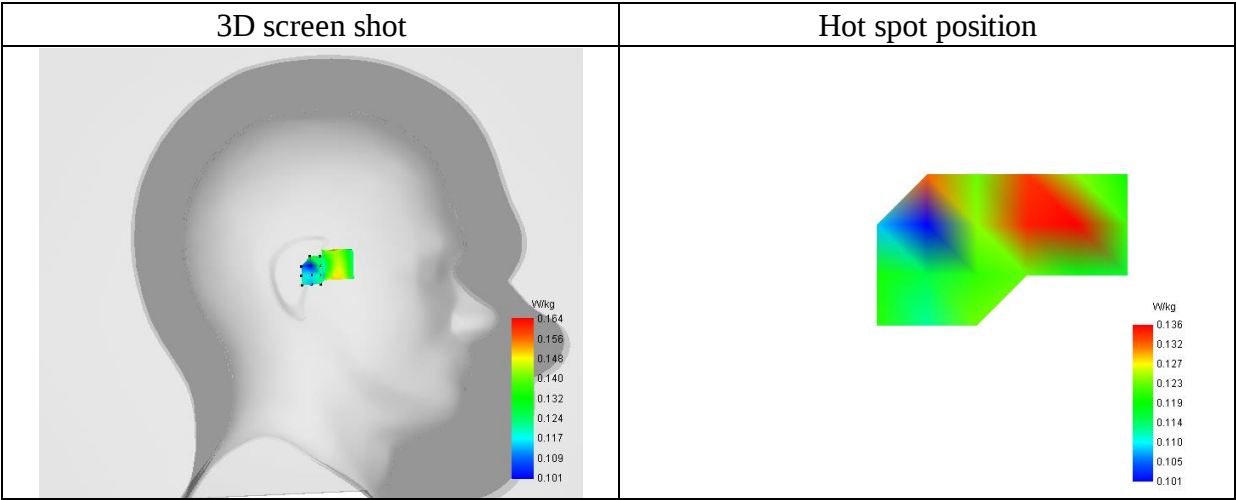
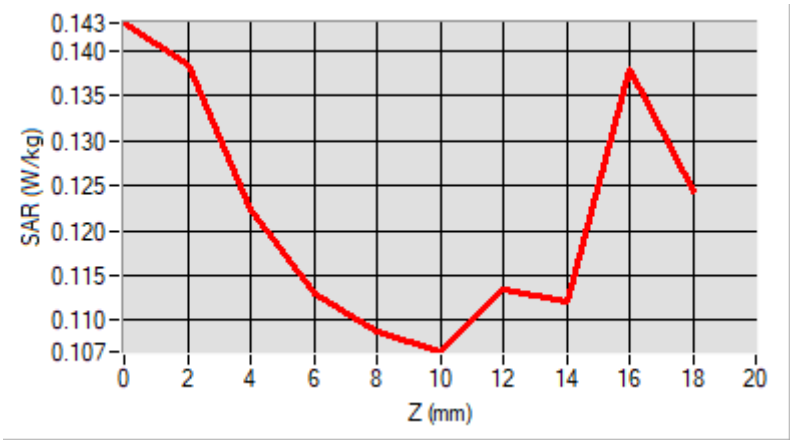
Frequency (MHz)	5755.000000
Relative Permittivity (real part)	34.725002
Conductivity (S/m)	5.167514
Power Variation (%)	-1.400000
Ambient Temperature	22.0
Liquid Temperature	22.0



Maximum location: X=-22.00, Y=9.00

SAR 10g (W/Kg)	0.137196
SAR 1g (W/Kg)	0.141387

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.1430	0.1383	0.1224	0.1130	0.1088	0.1065	0.1135	0.1121	0.1379



MEASUREMENT 74

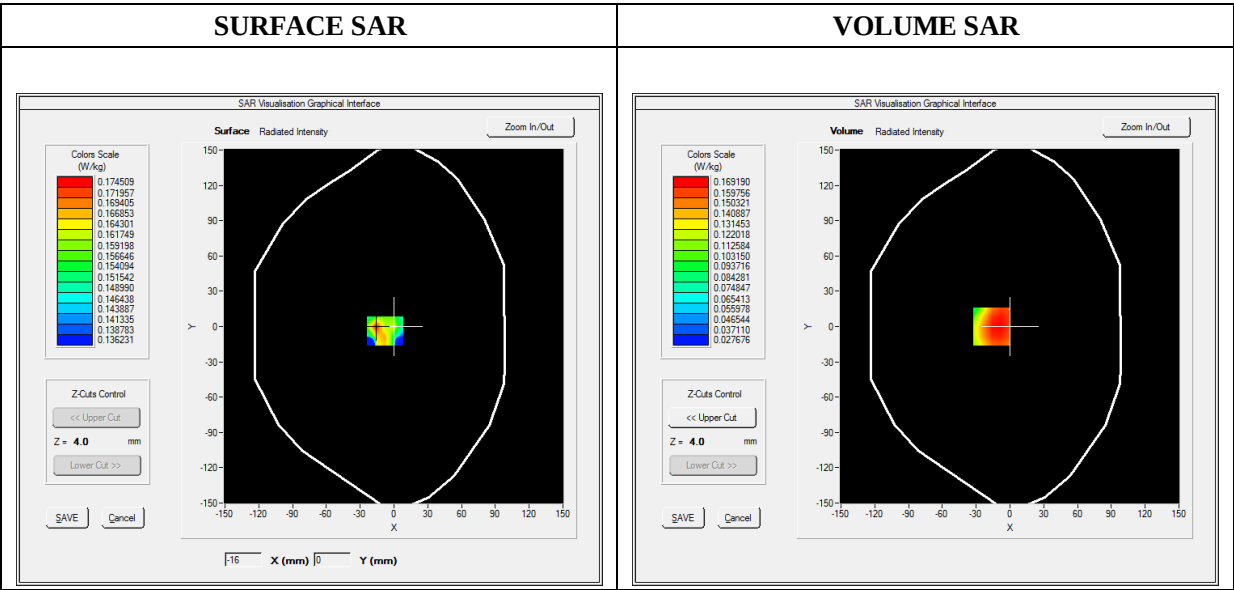
Type: Phone measurement (Complete)
Date of measurement: 2020-10-29
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

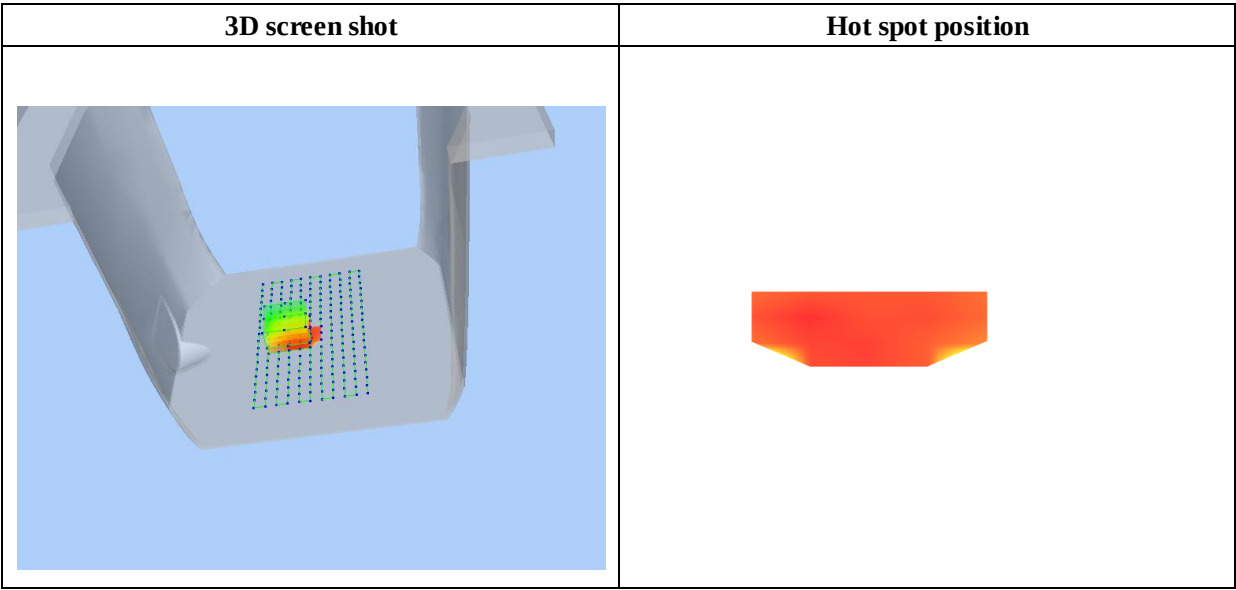
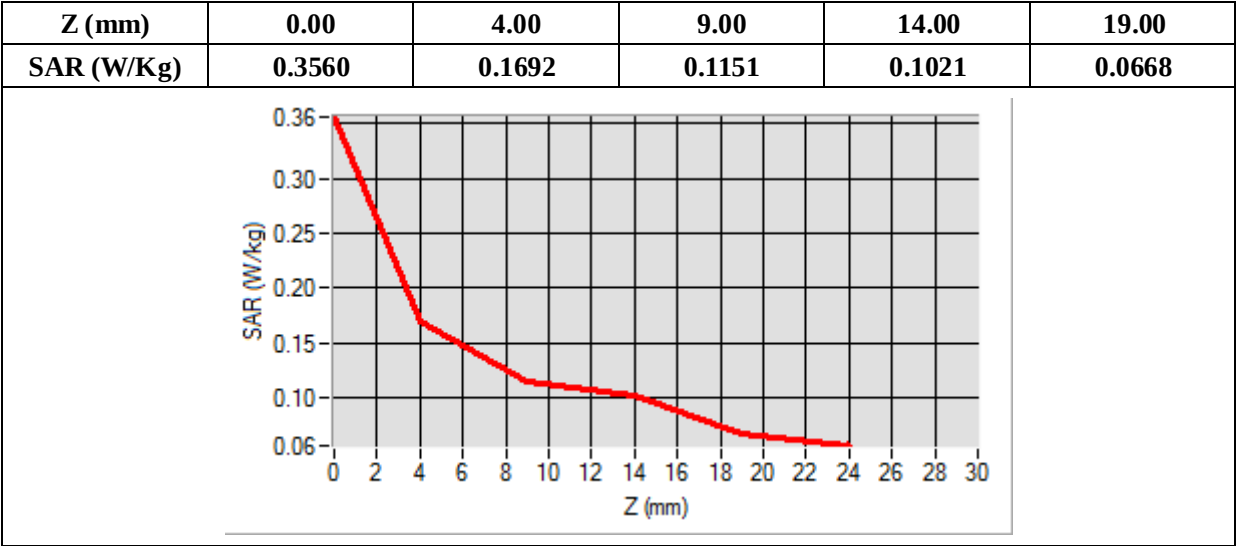
Frequency (MHz)	824.200000
Relative Permittivity (real part)	55.751214
Conductivity (S/m)	0.962454
Power Variation (%)	0.721472
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-16.00, Y=0.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.126511
SAR 1g (W/Kg)	0.168708



MEASUREMENT 75

Type: Phone measurement (Complete)

Date of measurement: 2020-11-09

Measurement duration: 12 minutes 3 seconds

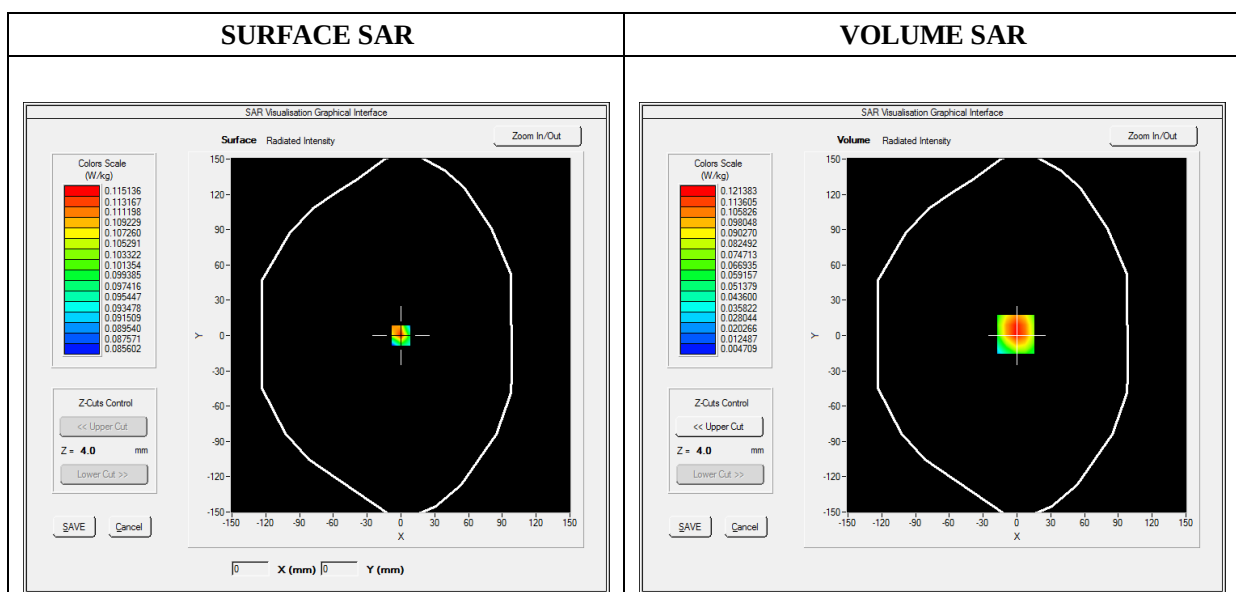
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

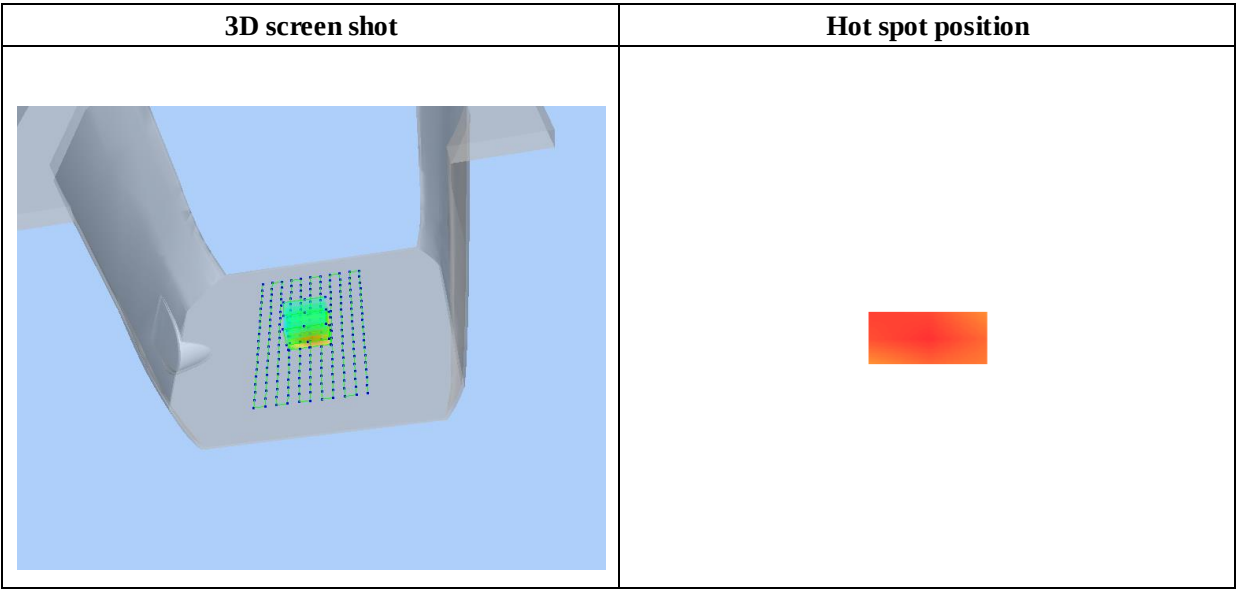
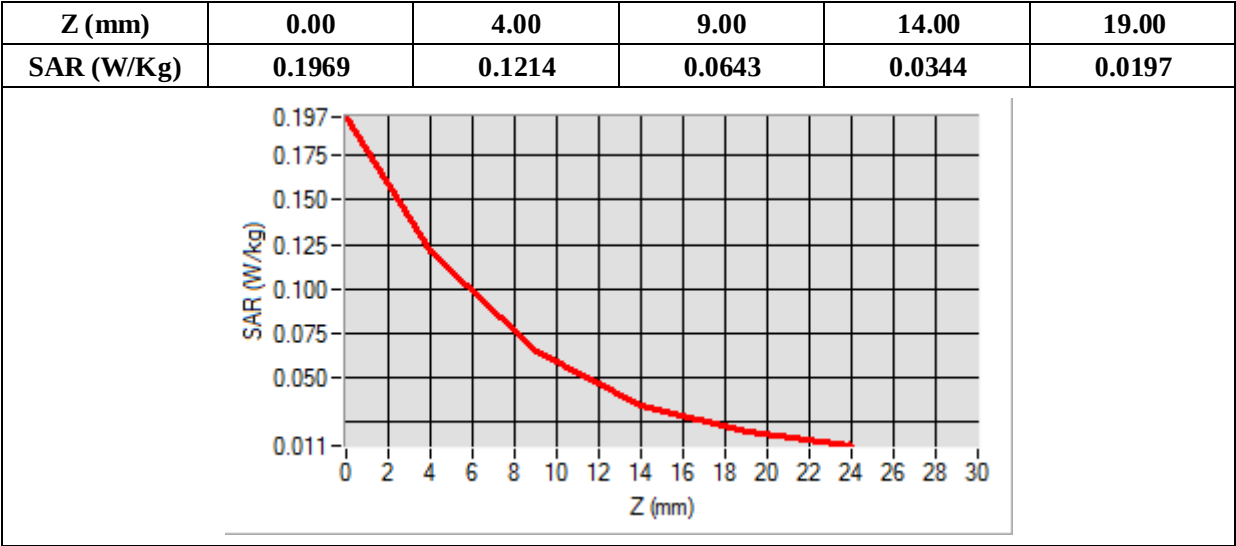
Frequency (MHz)	1850.200000
Relative Permittivity (real part)	53.402415
Conductivity (S/m)	1.501966
Power Variation (%)	-1.100000
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=-1.00, Y=1.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.064140
SAR 1g (W/Kg)	0.116271



MEASUREMENT 109

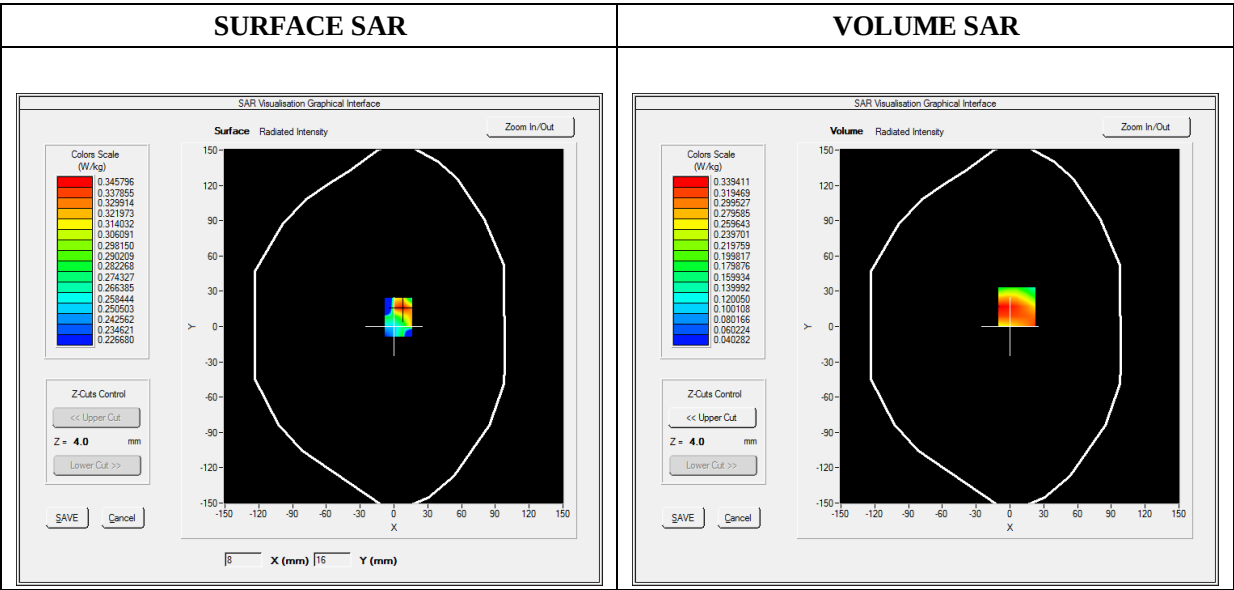
Type: Phone measurement (Complete)
Date of measurement: 2020-10-29
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS850_3TX
Channels	Middle
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

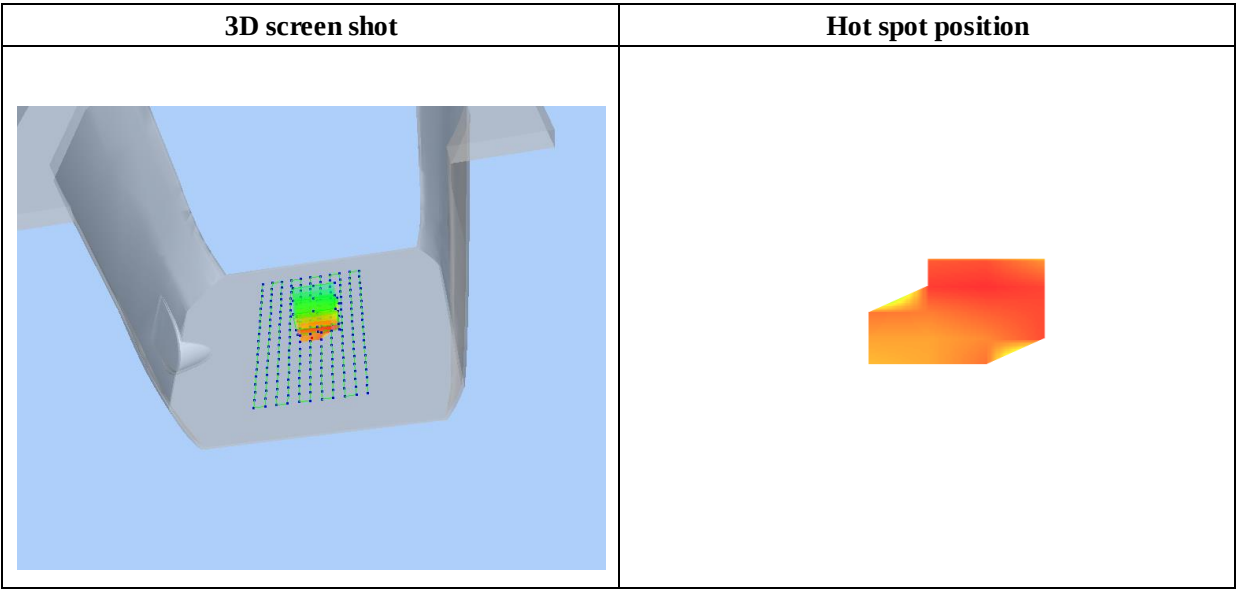
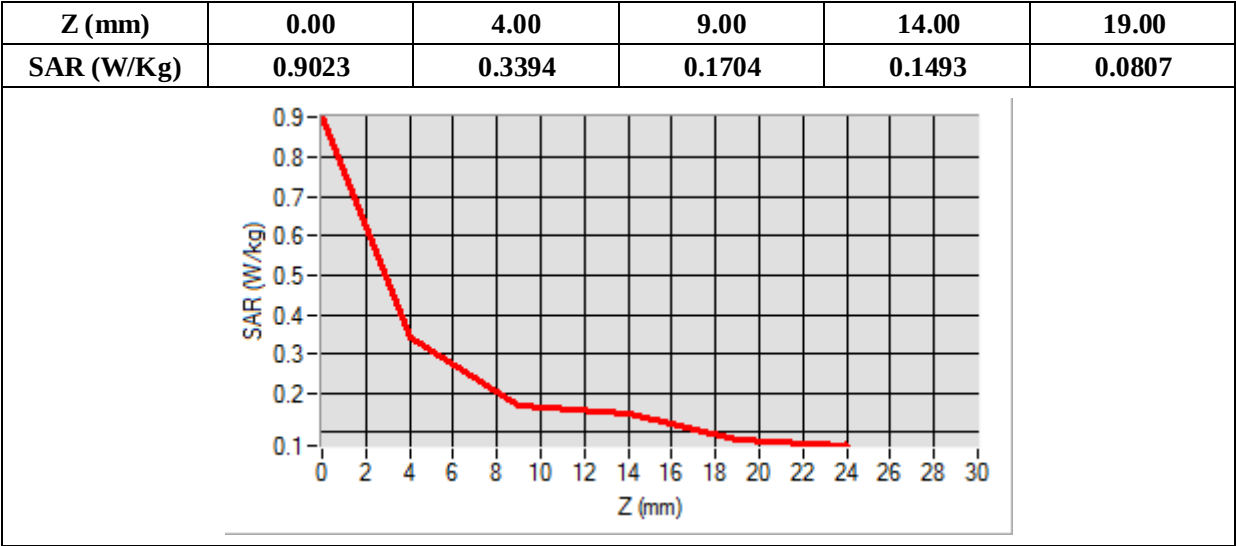
Frequency (MHz)	836.600000
Relative Permittivity (real part)	55.681264
Conductivity (S/m)	0.966454
Power Variation (%)	1.108572
Ambient Temperature	22.0
Liquid Temperature	22.2



Maximum location: X=6.00, Y=17.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.206900
SAR 1g (W/Kg)	0.326440



MEASUREMENT 114

Type: Phone measurement (Complete)
Date of measurement: 2020-11-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS1900_3TX
Channels	High
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

Frequency (MHz)	1910.800000
Relative Permittivity (real part)	51.820415
Conductivity (S/m)	1.530966
Power Variation (%)	-0.730000
Ambient Temperature	22.0
Liquid Temperature	22.2

