

	QPSK 20MHz 50%RB	Right side	2610.0	20.79	21.0	1.050	0.030	0.031
	QPSK 20MHz 50%RB	Left side	2610.0	20.79	21.0	1.050	0.138	0.145
	QPSK 20MHz 50%RB	Bottom side	2610.0	20.79	21.0	1.050	0.027	0.028

LTE Band 40 a–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					
	QPSK 10MHz 1RB	Back Side	2310.0	21.69	22.0	1.074	0.205	0.220
	QPSK 10MHz 1RB	Front Side	2310.0	21.69	22.0	1.074	0.269	0.289
	QPSK 10MHz 1RB	Right side	2310.0	21.69	22.0	1.074	0.042	0.045
38	QPSK 10MHz 1RB	Left side	2310.0	21.69	22.0	1.074	0.272	0.292
	QPSK 10MHz 1RB	Bottom side	2310.0	21.69	22.0	1.074	0.121	0.130
	QPSK 10MHz 50%RB	Back Side	2310.0	20.45	20.5	1.012	0.170	0.172
	QPSK 10MHz 50%RB	Front Side	2310.0	20.45	20.5	1.012	0.222	0.225
	QPSK 10MHz 50%RB	Right side	2310.0	20.45	20.5	1.012	0.034	0.034
	QPSK 10MHz 50%RB	Left side	2310.0	20.45	20.5	1.012	0.230	0.233
	QPSK 10MHz 50%RB	Bottom side	2310.0	20.45	20.5	1.012	0.099	0.100

LTE Band 40 b–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					
	QPSK 10MHz 1RB	Back Side	2355.0	21.83	22.0	1.040	0.202	0.210
	QPSK 10MHz 1RB	Front Side	2355.0	21.83	22.0	1.040	0.274	0.285
	QPSK 10MHz 1RB	Right side	2355.0	21.83	22.0	1.040	0.051	0.053
39	QPSK 10MHz 1RB	Left side	2355.0	21.83	22.0	1.040	0.373	0.388
	QPSK 10MHz 1RB	Bottom side	2355.0	21.83	22.0	1.040	0.167	0.174
	QPSK 10MHz 50%RB	Back Side	2355.0	20.63	21.0	1.089	0.158	0.172
	QPSK 10MHz 50%RB	Front Side	2355.0	20.63	21.0	1.089	0.222	0.242
	QPSK 10MHz 50%RB	Right side	2355.0	20.63	21.0	1.089	0.044	0.048
	QPSK 10MHz 50%RB	Left side	2355.0	20.63	21.0	1.089	0.297	0.323
	QPSK 10MHz 50%RB	Bottom side	2355.0	20.63	21.0	1.089	0.132	0.144

LTE Band 41–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					
	QPSK 20MHz 1RB	Back Side	2593	22.45	22.5	1.012	0.123	0.124
	QPSK 20MHz 1RB	Front Side	2593	22.45	22.5	1.012	0.093	0.094
	QPSK 20MHz 1RB	Right side	2593	22.45	22.5	1.012	0.016	0.016
40	QPSK 20MHz 1RB	Left side	2593	22.45	22.5	1.012	0.167	0.169

	QPSK 20MHz 1RB	Bottom side	2593	22.45	22.5	1.012	0.031	0.031
	QPSK 20MHz 50%RB	Back Side	2593	21.74	22.0	1.062	0.096	0.102
	QPSK 20MHz 50%RB	Front Side	2593	21.74	22.0	1.062	0.071	0.075
	QPSK 20MHz 50%RB	Right side	2593	21.74	22.0	1.062	0.010	0.011
	QPSK 20MHz 50%RB	Left side	2593	21.74	22.0	1.062	0.132	0.140
	QPSK 20MHz 50%RB	Bottom side	2593	21.74	22.0	1.062	0.026	0.028

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					
	802.11b	Back Side	11	2462	16.73	17.0	1.064	0.203	0.216
	802.11b	Front Side	11	2462	16.73	17.0	1.064	0.203	0.216
41	802.11b	Left side	11	2462	16.73	17.0	1.064	0.297	0.316
	802.11b	Top side	11	2462	16.73	17.0	1.064	0.180	0.192

WLAN 5GHz(Band 1) –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					
42	802.11 n (HT40)	Back Side	46	5230	13.06	13.5	1.107	0.496	0.549
	802.11 n (HT40)	Front Side	46	5230	13.06	13.5	1.107	0.225	0.249
	802.11 n (HT40)	Left side	46	5230	13.06	13.5	1.107	0.334	0.370
	802.11 n (HT40)	Top side	46	5230	13.06	13.5	1.107	0.359	0.397

WLAN 5GHz(Band 2) –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					
43	802.11 n (HT20)	Back Side	64	5320	14.76	15.0	1.057	0.518	0.547
	802.11 n (HT20)	Front Side	64	5320	14.76	15.0	1.057	0.214	0.226
	802.11 n (HT20)	Left side	64	5320	14.76	15.0	1.057	0.405	0.428
	802.11 n (HT20)	Top side	64	5320	14.76	15.0	1.057	0.398	0.421

WLAN 5GHz(Band 3) –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					
44	802.11 n (HT40)	Back Side	102	5510	15.60	16.0	1.096	0.723	0.793
	802.11 n (HT40)	Front Side	102	5510	15.60	16.0	1.096	0.296	0.325
	802.11 n (HT40)	Left side	102	5510	15.60	16.0	1.096	0.466	0.511
	802.11 n (HT40)	Top side	102	5510	15.60	16.0	1.096	0.522	0.572

WLAN 5GHz(Band 4) –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					
45	802.11 n (HT20)	Back Side	149	5745	11.95	12.0	1.012	0.558	0.564
	802.11 n (HT20)	Front Side	149	5745	11.95	12.0	1.012	0.384	0.388
	802.11 n (HT20)	Left side	149	5745	11.95	12.0	1.012	0.382	0.386
	802.11 n (HT20)	Top side	149	5745	11.95	12.0	1.012	0.516	0.522

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)+ (2.4G)(Data)	Yes	Yes
3	LTE(Data) + (2.4G)(Data)	Yes	Yes
4	GSM(Voice/Data) + WLAN(5G)(Data)	Yes	Yes
5	WCDMA (Voice/Data)+ (5G)(Data)	Yes	Yes
6	LTE(Data) + (5G)(Data)	Yes	Yes
7	GSM(Voice/Data) + Bluetooth(Data)	Yes	Yes
8	WCDMA (Voice/Data) + Bluetooth(Data)	Yes	Yes
9	LTE(Data) + Bluetooth(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
6.0	3.98	5/10	2.402	7.5	0.165	0.083

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	0.262	0.624	0.886
Right Tilted	GSM	0.091	0.534	0.625
Left Cheek	GSM	0.307	0.251	0.558
Left Tilted	GSM	0.098	0.196	0.294
Right Cheek	WCDMA	0.301	0.624	0.925
Right Tilted	WCDMA	0.099	0.534	0.633
Left Cheek	WCDMA	0.435	0.251	0.686
Left Tilted	WCDMA	0.154	0.196	0.350
Right Cheek	LTE	0.438	0.624	1.062
Right Tilted	LTE	0.157	0.534	0.691
Left Cheek	LTE	0.746	0.251	0.997
Left Tilted	LTE	0.251	0.196	0.447

	WWAN		WLAN(5G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.262	0.742	1.004
Right Tilted	GSM	0.091	0.654	0.745
Left Cheek	GSM	0.307	0.736	1.043
Left Tilted	GSM	0.098	0.645	0.743
Right Cheek	WCDMA	0.301	0.742	1.043
Right Tilted	WCDMA	0.099	0.654	0.753
Left Cheek	WCDMA	0.435	0.736	1.171
Left Tilted	WCDMA	0.154	0.645	0.799
Right Cheek	LTE	0.438	0.742	1.180
Right Tilted	LTE	0.157	0.654	0.811
Left Cheek	LTE	0.746	0.736	1.482
Left Tilted	LTE	0.251	0.645	0.896

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.262	0.165	0.427
Right Tilted	GSM	0.091	0.165	0.256
Left Cheek	GSM	0.307	0.165	0.472
Left Tilted	GSM	0.098	0.165	0.263

Right Cheek	WCDMA	0.301	0.165	0.466
Right Tilted	WCDMA	0.099	0.165	0.264
Left Cheek	WCDMA	0.435	0.165	0.600
Left Tilted	WCDMA	0.154	0.165	0.319
Right Cheek	LTE	0.438	0.165	0.603
Right Tilted	LTE	0.157	0.165	0.322
Left Cheek	LTE	0.746	0.165	0.911
Left Tilted	LTE	0.251	0.165	0.416

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	0.272	0.216	0.488
Front	GSM	0.374	0.216	0.590
Back	WCDMA	0.369	0.216	0.585
Front	WCDMA	0.587	0.216	0.803
Back	LTE	0.769	0.216	0.985
Front	LTE	0.714	0.216	0.930

	WWAN		WLAN(5G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.272	0.793	1.065
Front	GSM	0.374	0.388	0.762
Back	WCDMA	0.369	0.793	1.162
Front	WCDMA	0.587	0.388	0.975
Back	LTE	0.769	0.793	1.562
Front	LTE	0.714	0.388	1.102

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.272	0.083	0.355
Front	GSM	0.374	0.083	0.457
Back	WCDMA	0.369	0.083	0.452
Front	WCDMA	0.587	0.083	0.670
Back	LTE	0.769	0.083	0.852
Front	LTE	0.714	0.083	0.797

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	0.318	0.216	0.534
Front	GSM	0.411	0.216	0.627
Right side	GSM	0.112	/	0.112
Left side	GSM	0.432	0.316	0.748
Top side	GSM	/	0.192	0.192
Bottom side	GSM	0.320	/	0.320
Back	WCDMA	0.369	0.216	0.585
Front	WCDMA	0.587	0.216	0.803
Right side	WCDMA	0.150	/	0.150
Left side	WCDMA	0.499	0.316	0.815
Top side	WCDMA	/	0.192	0.192
Bottom side	WCDMA	0.479	/	0.479
Back	LTE	0.769	0.216	0.985
Front	LTE	0.714	0.216	0.930
Right side	LTE	0.161	/	0.161
Left side	LTE	0.785	0.316	1.101
Top side	LTE	/	0.192	0.192
Bottom side	LTE	0.295	/	0.295

	WWAN		WLAN(5G)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.318	0.793	1.111
Front	GSM	0.411	0.325	0.736
Right side	GSM	0.112	/	0.112
Left side	GSM	0.432	0.511	0.943
Top side	GSM	/	0.572	0.572
Bottom side	GSM	0.320	/	0.320
Back	WCDMA	0.369	0.793	1.162
Front	WCDMA	0.587	0.325	0.912
Right side	WCDMA	0.150	/	0.150
Left side	WCDMA	0.499	0.511	1.010
Top side	WCDMA	/	0.572	0.572
Bottom side	WCDMA	0.479	/	0.479
Back	LTE	0.769	0.793	1.562

Front	LTE	0.714	0.325	1.039
Right side	LTE	0.161	/	0.161
Left side	LTE	0.785	0.511	1.296
Top side	LTE	/	0.572	0.572
Bottom side	LTE	0.295	/	0.295

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.318	0.083	0.401
Front	GSM	0.411	0.083	0.494
Right side	GSM	0.112	/	0.112
Left side	GSM	0.432	0.083	0.515
Top side	GSM	/	0.083	0.083
Bottom side	GSM	0.320	/	0.320
Back	WCDMA	0.369	0.083	0.452
Front	WCDMA	0.587	0.083	0.670
Right side	WCDMA	0.150	/	0.150
Left side	WCDMA	0.499	0.083	0.582
Top side	WCDMA	/	0.083	0.083
Bottom side	WCDMA	0.479	/	0.479
Back	LTE	0.769	0.083	0.852
Front	LTE	0.714	0.083	0.797
Right side	LTE	0.161	/	0.161
Left side	LTE	0.785	0.083	0.868
Top side	LTE	/	0.083	0.083
Bottom side	LTE	0.295	/	0.295

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

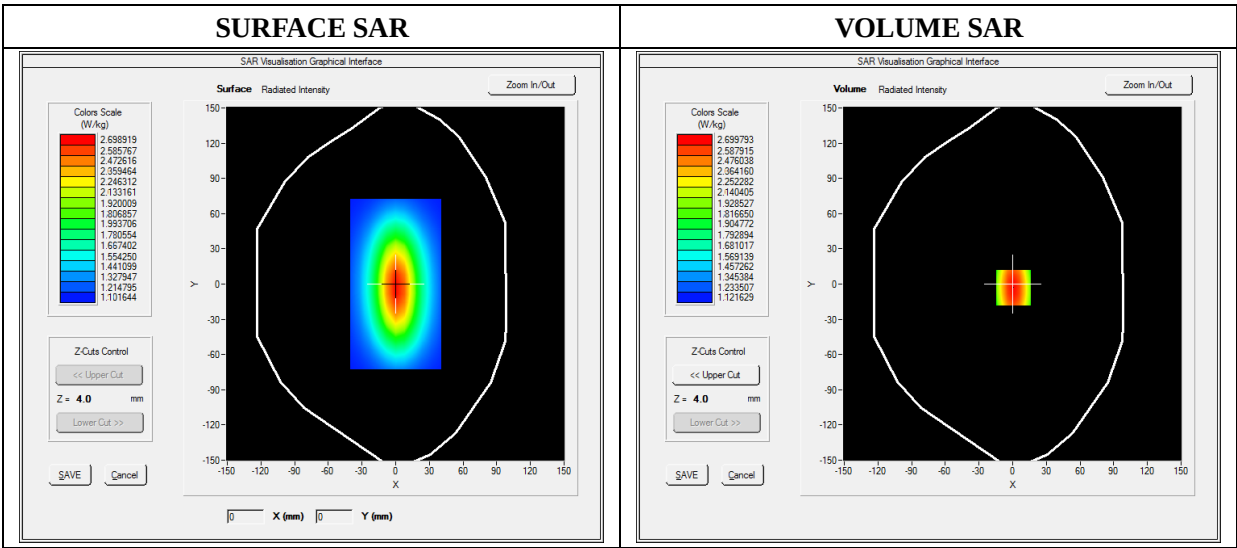
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 7 minutes 21 seconds
E-field Probe: SN 09/13 EP168; ConvF: 6.93; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
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)	42.702834
Conductivity (S/m)	0.918612
Power Variation (%)	-1.320000
Ambient Temperature	22.1
Liquid Temperature	22.1

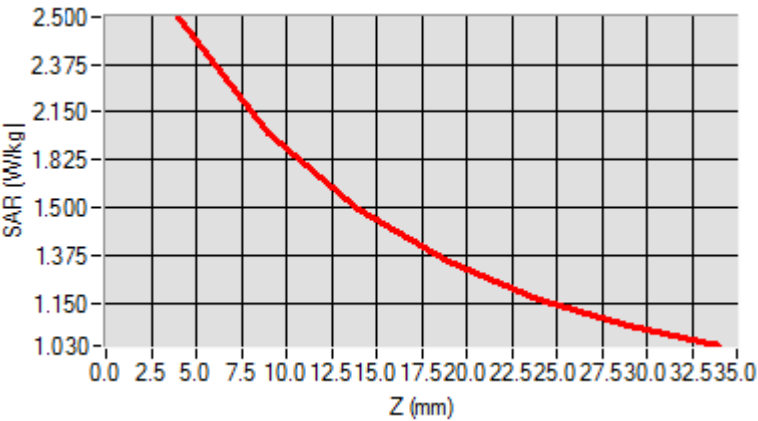


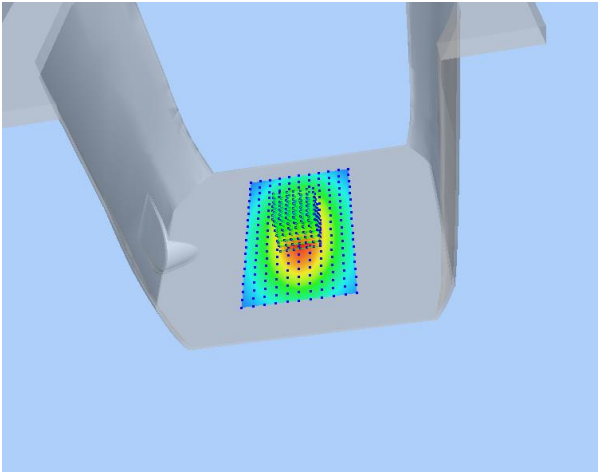
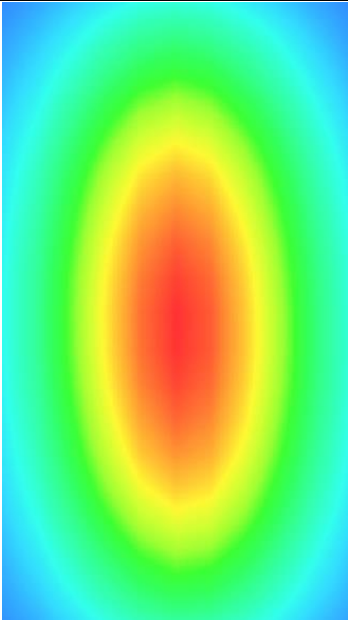
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.512763
SAR 1g (W/Kg)	2.380250

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 2

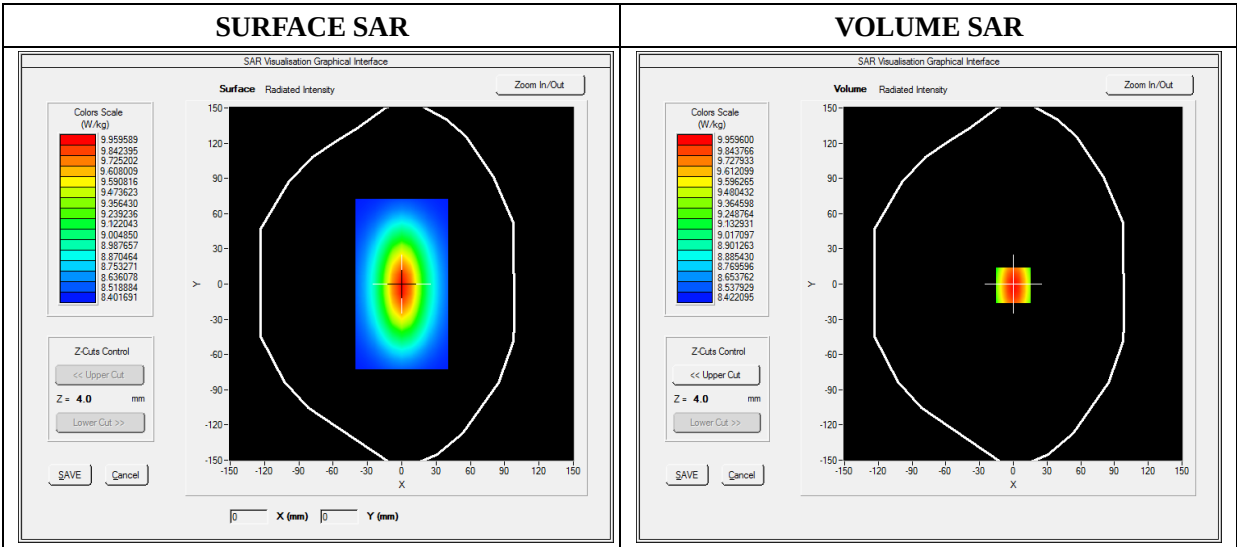
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SN 09/13 EP168; ConvF: 6.35; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1900.00000
Relative Permittivity (real part)	39.570296
Conductivity (S/m)	1.403845
Power Variation (%)	-1.710000
Ambient Temperature	22.3
Liquid Temperature	22.3

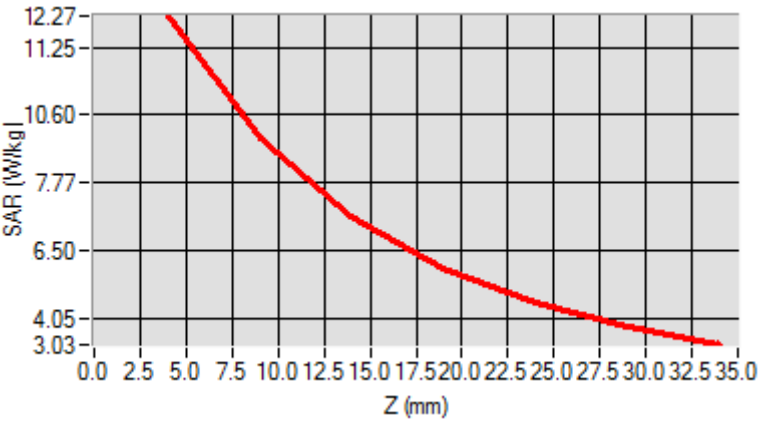


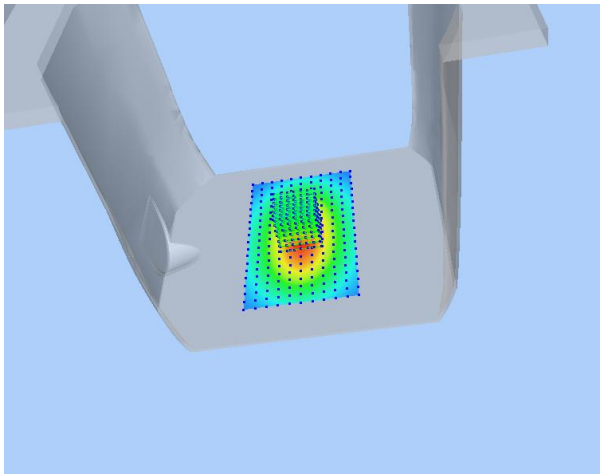
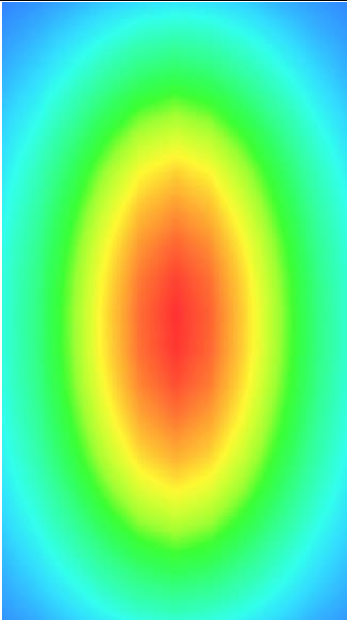
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.071250
SAR 1g (W/Kg)	9.501250

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.1250	10.3114	8.4212	6.4041	5.3425	3.3642



3D screen shot	Hot spot position
	

MEASUREMENT 3

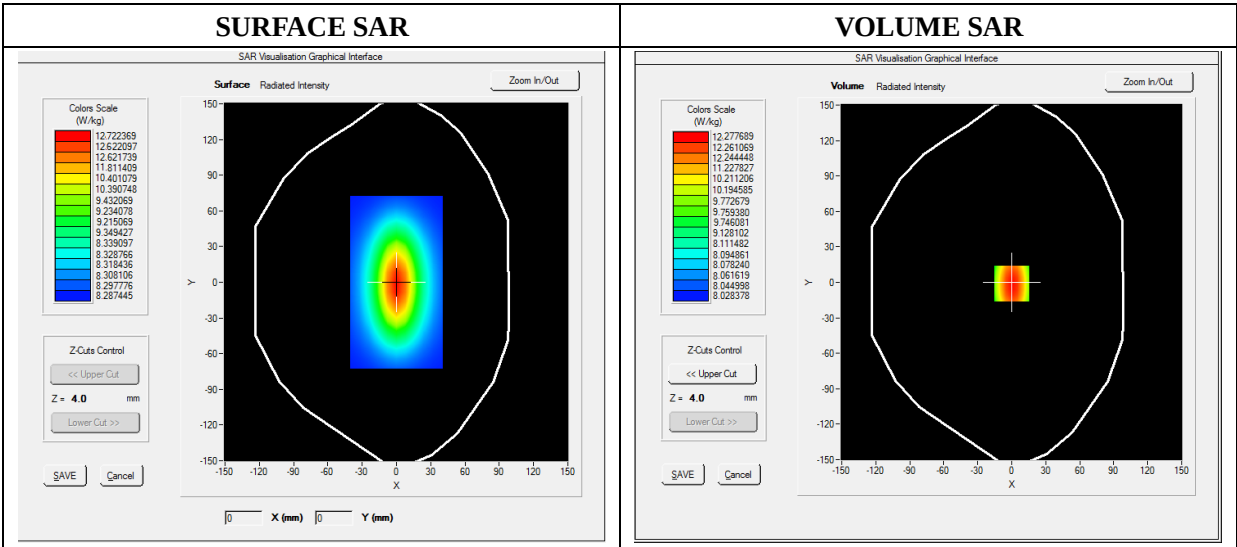
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SN 09/13 EP168; ConvF: 5.64; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	39.850317
Conductivity (S/m)	1.824035
Power Variation (%)	-1.050000
Ambient Temperature	21.9
Liquid Temperature	21.9

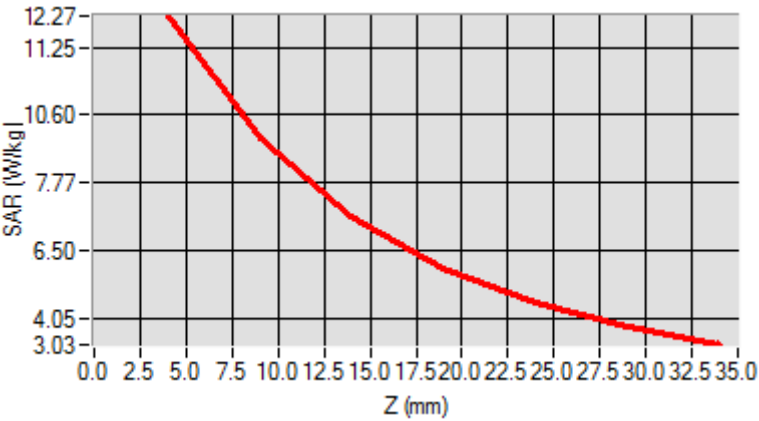


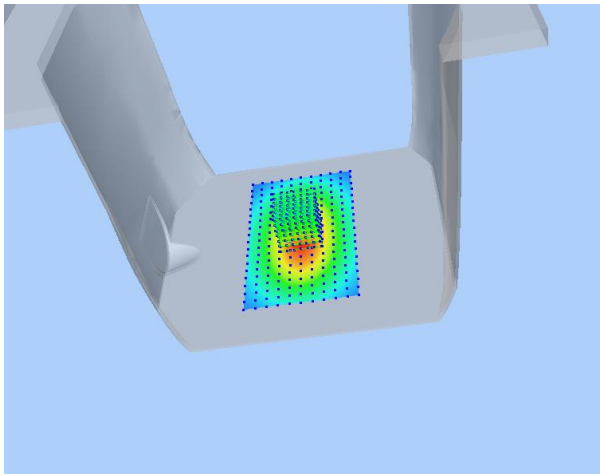
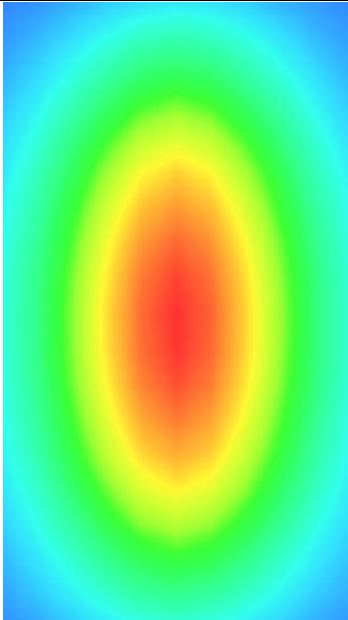
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	6.152122
SAR 1g (W/Kg)	13.831201

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.2365	10.3321	8.4512	6.4365	5.6123	3.5621



3D screen shot	Hot spot position
	

MEASUREMENT 4

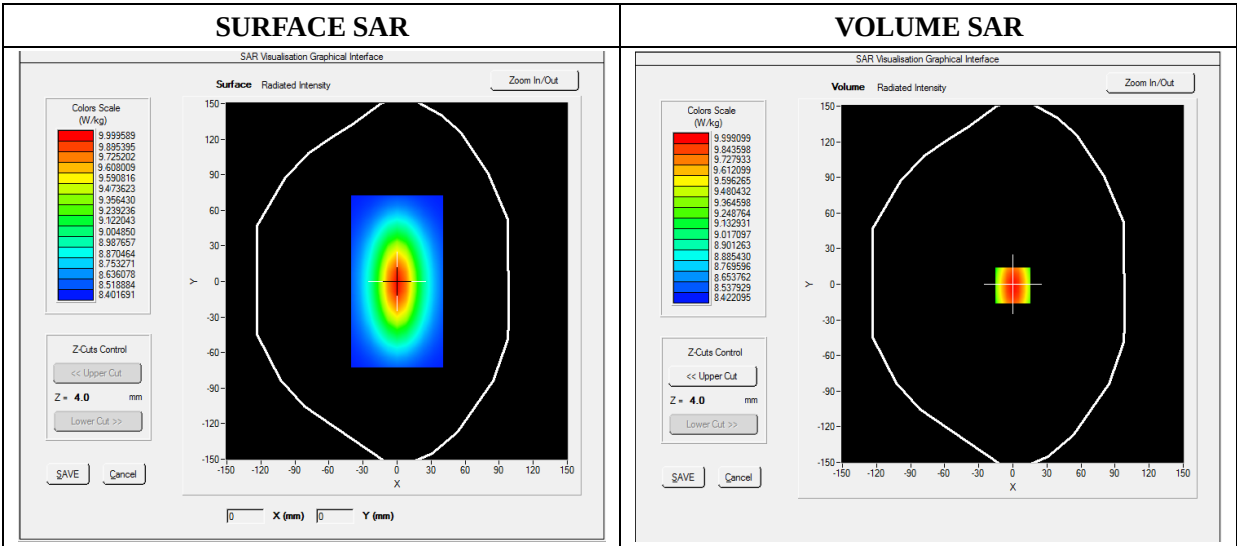
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SN 09/13 EP168; ConvF: 5.37; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative Permittivity (real part)	39.218356
Conductivity (S/m)	1.990324
Power Variation (%)	-1.360000
Ambient Temperature	21.9
Liquid Temperature	21.9

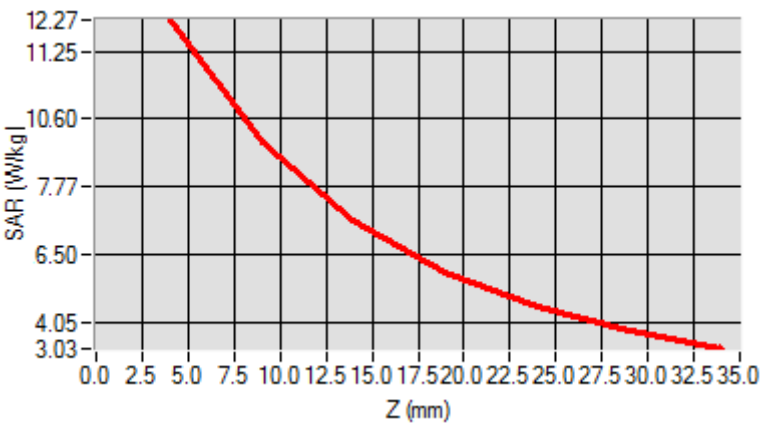


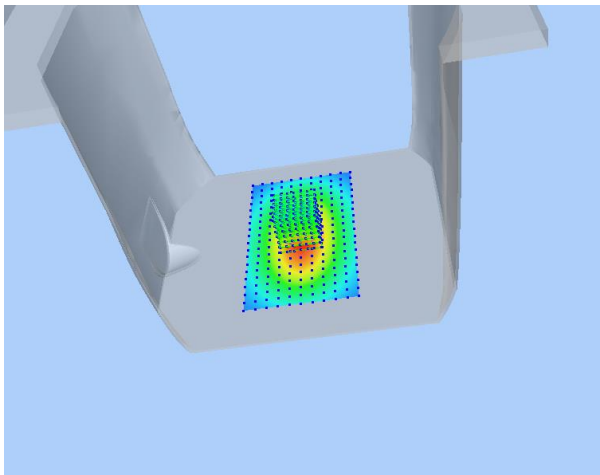
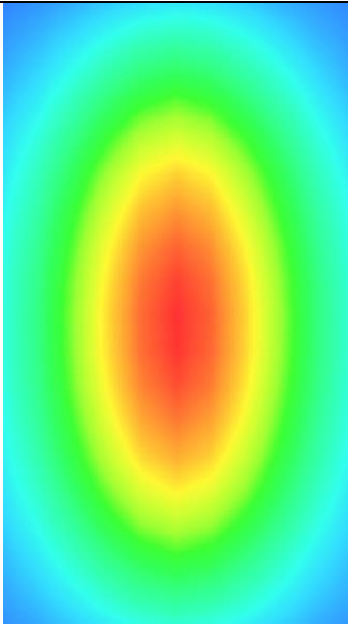
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	6.183156
SAR 1g (W/Kg)	14.113311

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.14321	10.3214	8.4598	6.4653	5.6765	3.5986



3D screen shot	Hot spot position
	

MEASUREMENT 5

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

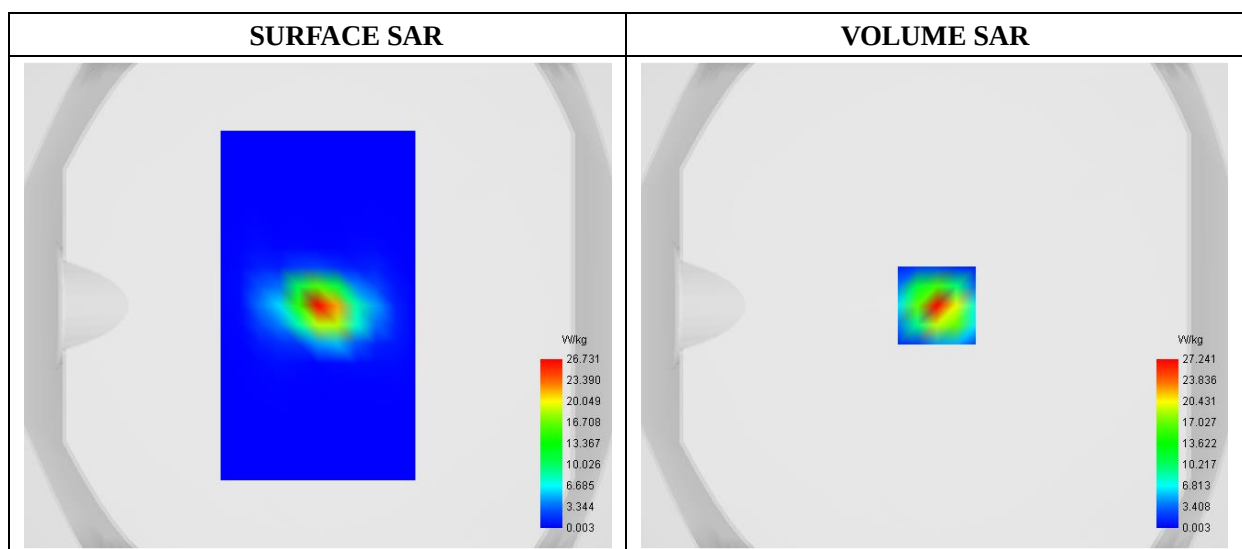
E-field Probe: SN 45/15 EPGO280; ConvF: 2.44; Calibrated: 2020-07-03

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

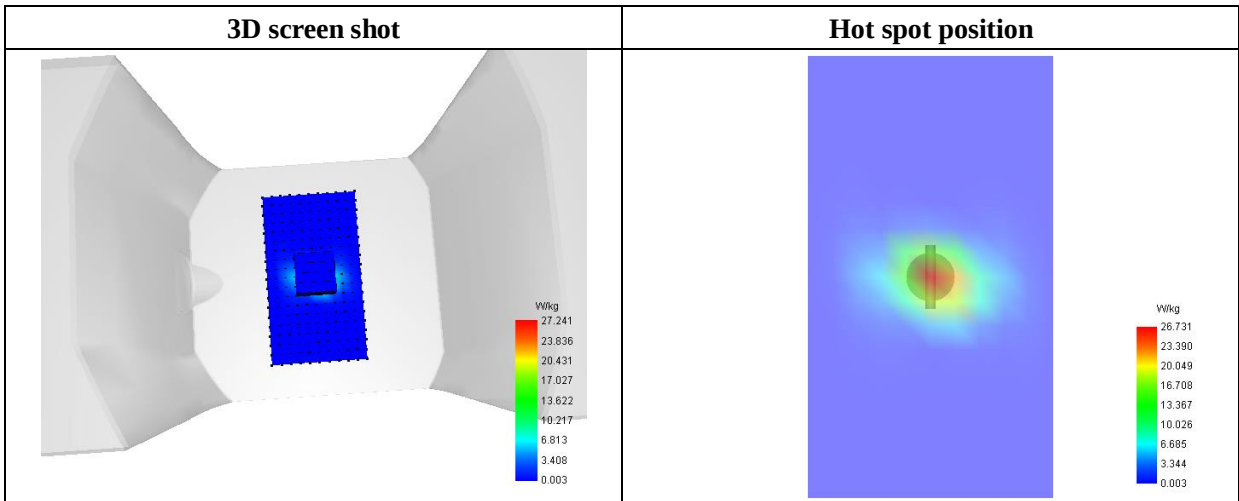
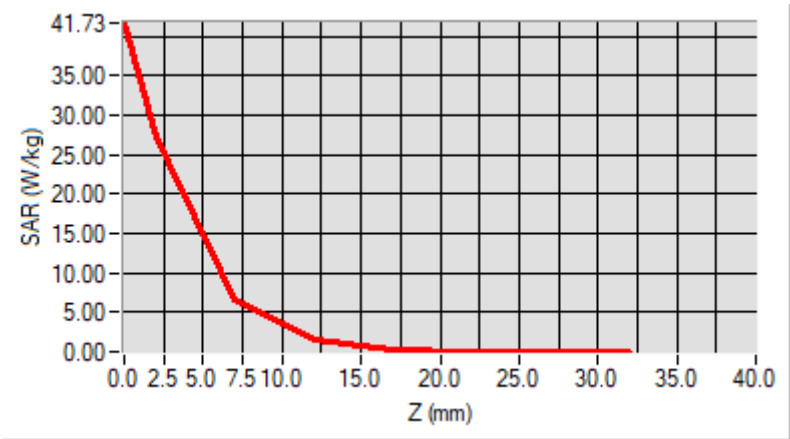
Frequency (MHz)	5200.000000
Relative Permittivity (real part)	37.112911
Conductivity (S/m)	4.803426
Power Variation (%)	-0.940000
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	5.910334
SAR 1g (W/Kg)	16.746226

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 6

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

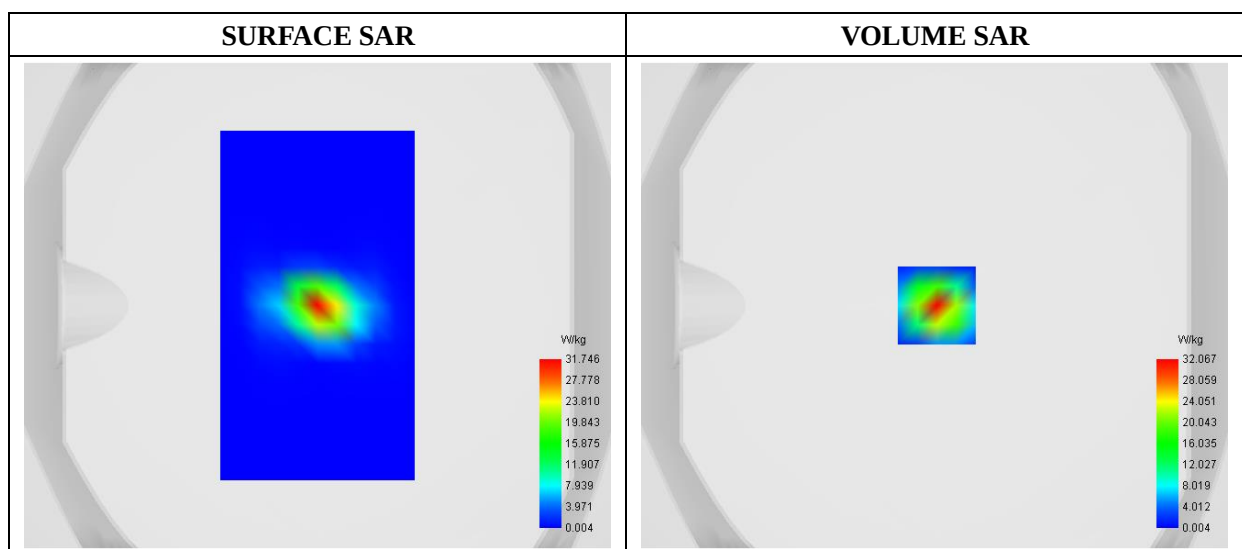
E-field Probe: SN 45/15 EPGO280; ConvF: 2.68; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

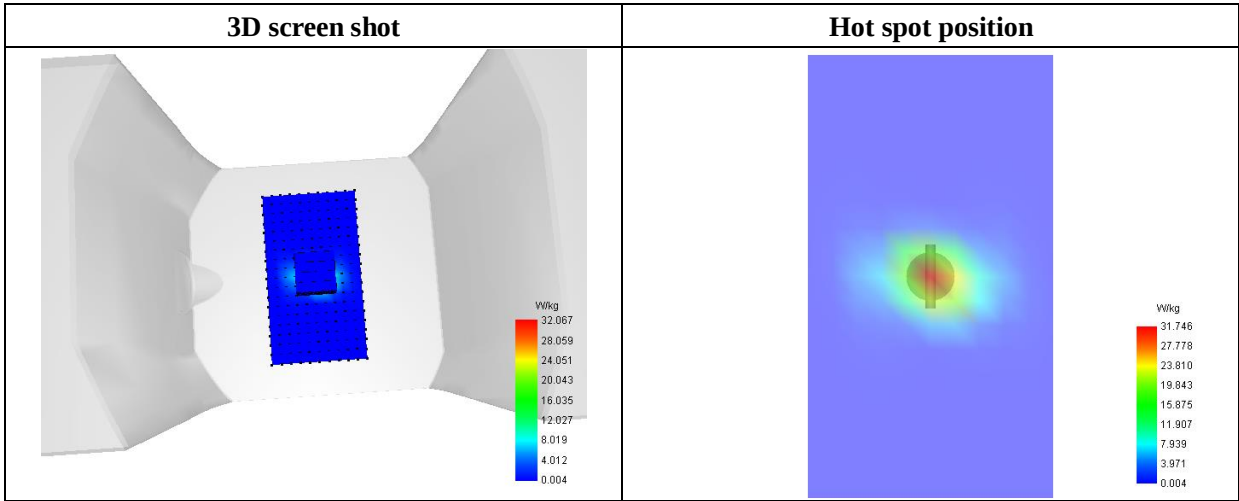
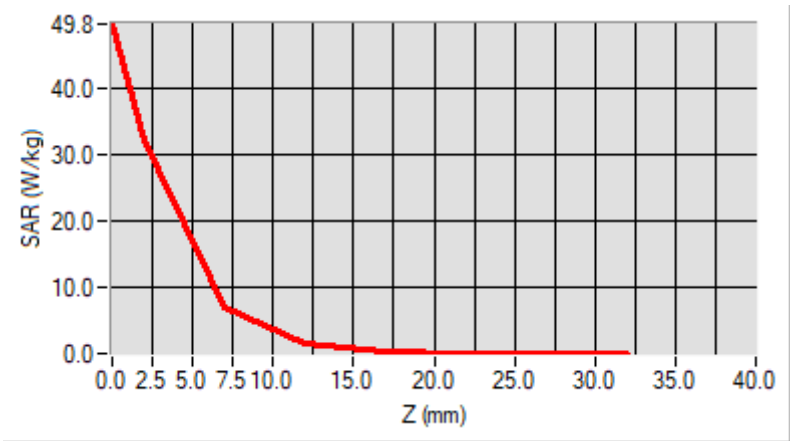
Frequency (MHz)	5400.000000
Relative Permittivity (real part)	36.520839
Conductivity (S/m)	4.940192
Power Variation (%)	1.020000
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	6.047588
SAR 1g (W/Kg)	17.481175

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 7

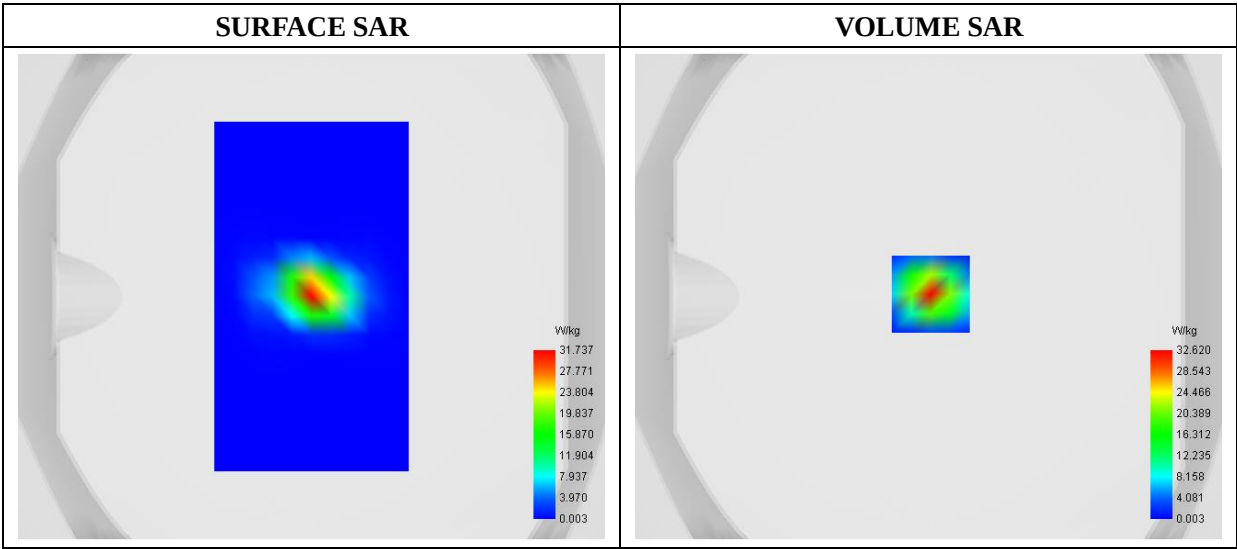
Type: Validation measurement (Fast, 75.00 %)
Measurement duration: 12 minutes 21 seconds
E-field Probe: SN 45/15 EPGO280; ConvF: 2.72; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

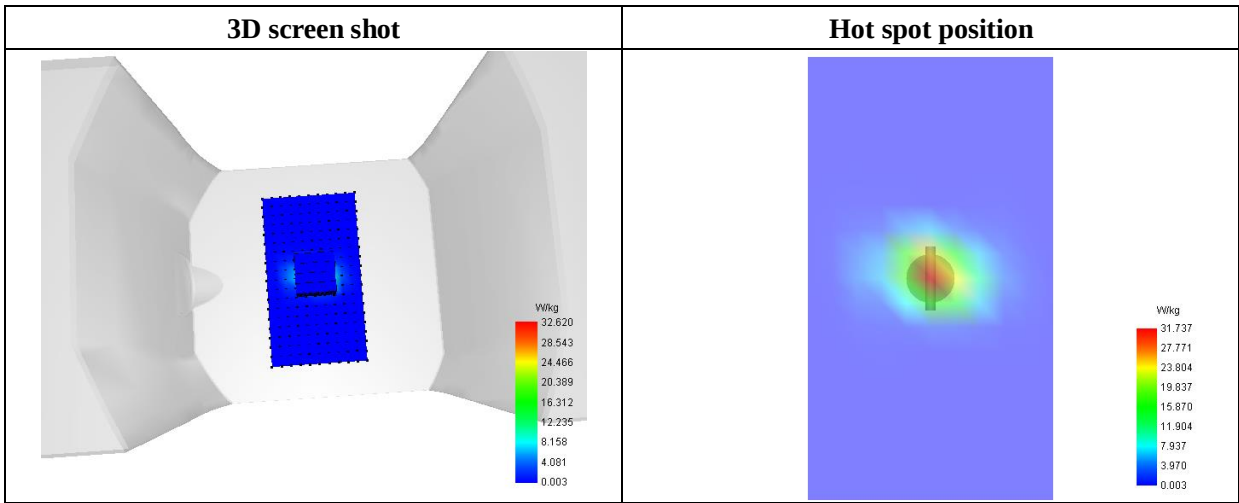
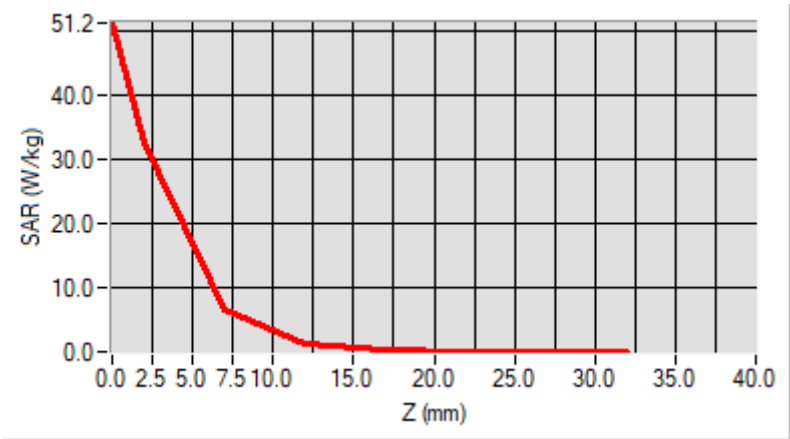
Frequency (MHz)	5600.000000
Relative Permittivity (real part)	35.341205
Conductivity (S/m)	5.120357
Power Variation (%)	-0.640000
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=1.00, Y=1.00

SAR 10g (W/Kg)	5.922791
SAR 1g (W/Kg)	17.604052

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 8

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

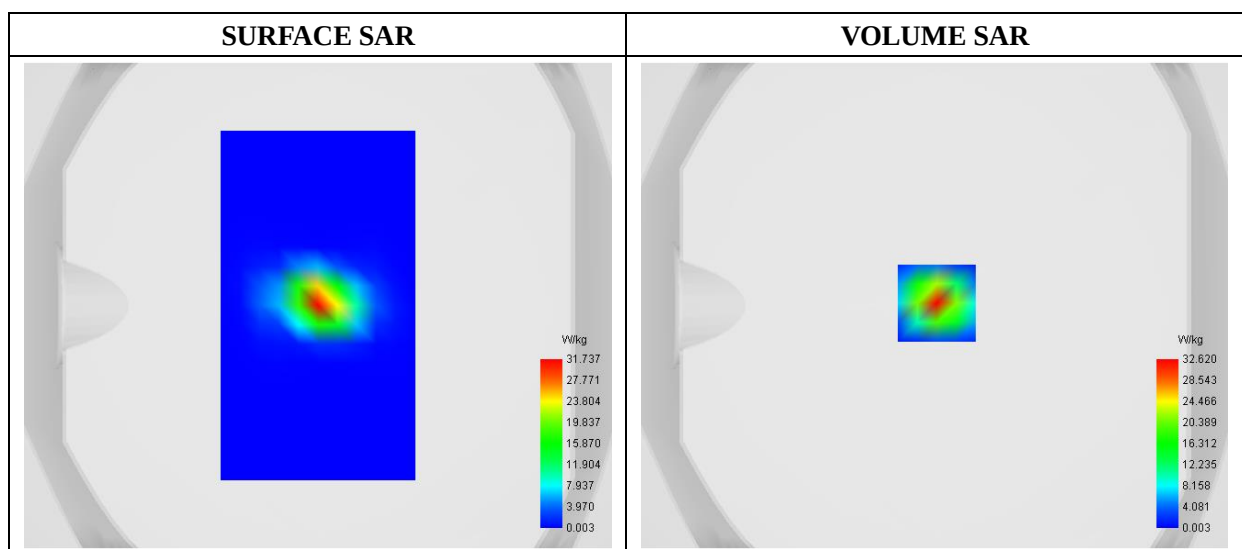
E-field Probe: SN 45/15 EPGO280; ConvF: 2.52; Calibrated: 2020-07-03

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

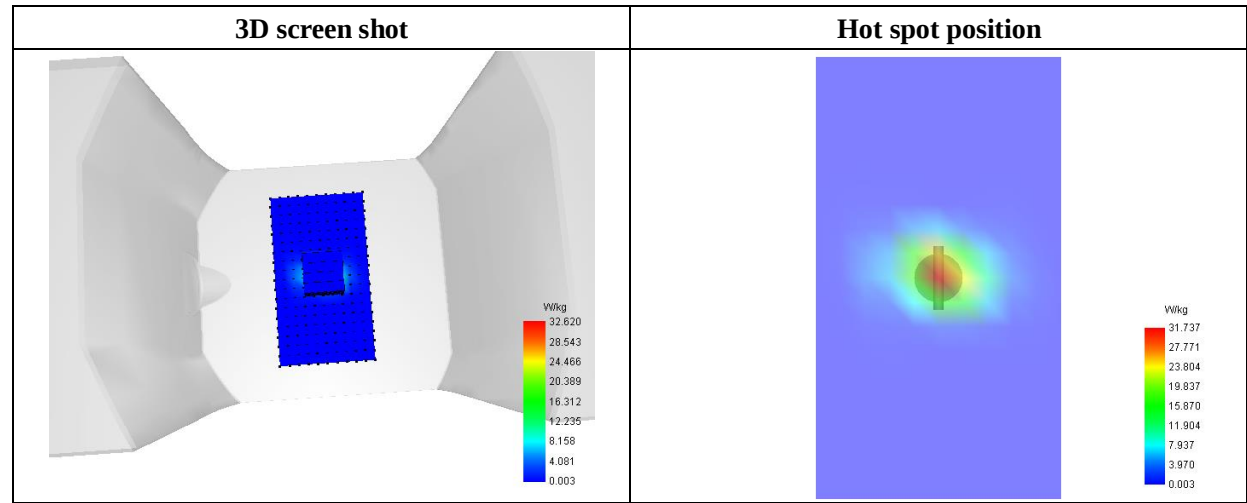
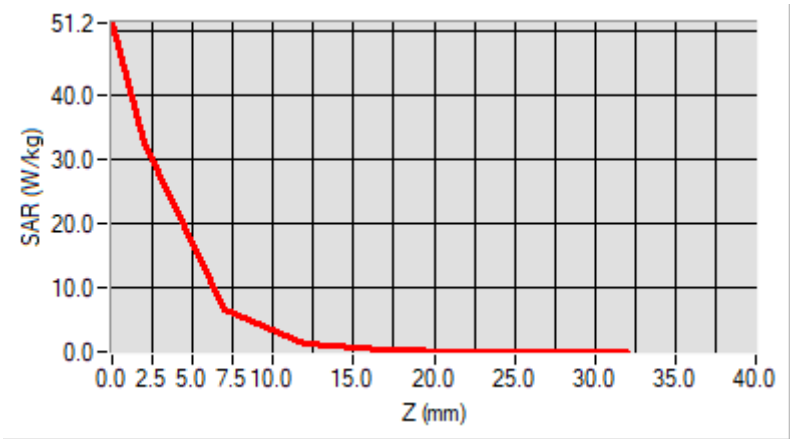
Frequency (MHz)	5800.000000
Relative Permittivity (real part)	34.923814
Conductivity (S/m)	5.312705
Power Variation (%)	-1.640000
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=1.00, Y=1.00

SAR 10g (W/Kg)	5.983506
SAR 1g (W/Kg)	17.960742

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



Annex B. Plots of SAR Measurement

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 2021-05-06

Measurement duration: 12 minutes 48 seconds

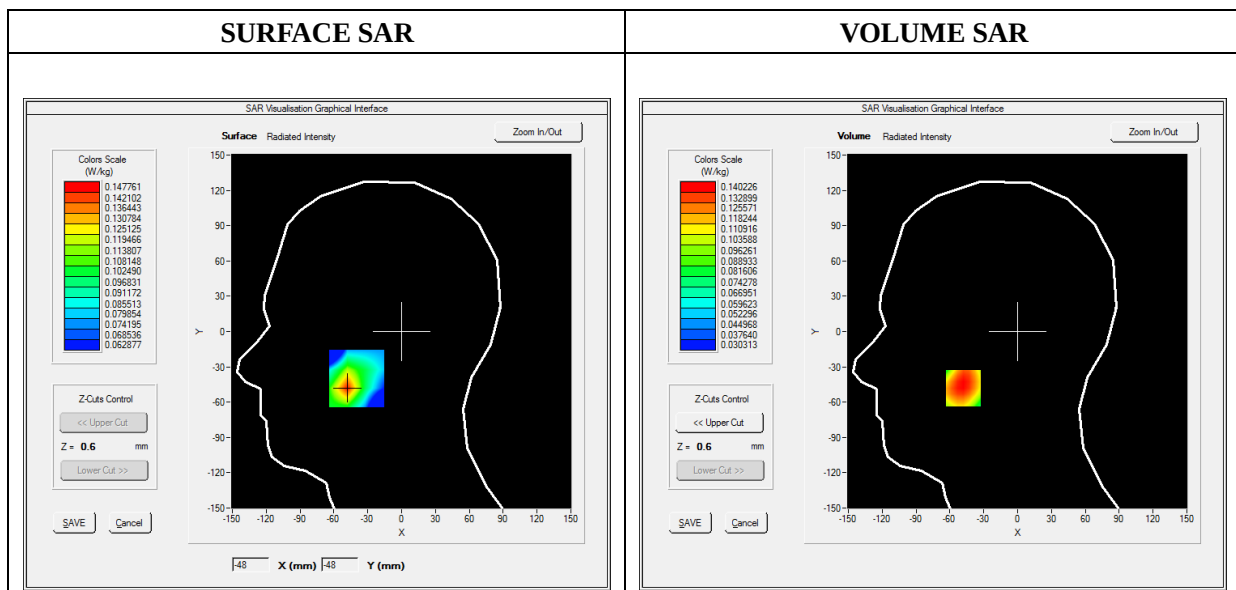
E-field Probe: SN 09/13 EP168; ConvF: 6.93; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

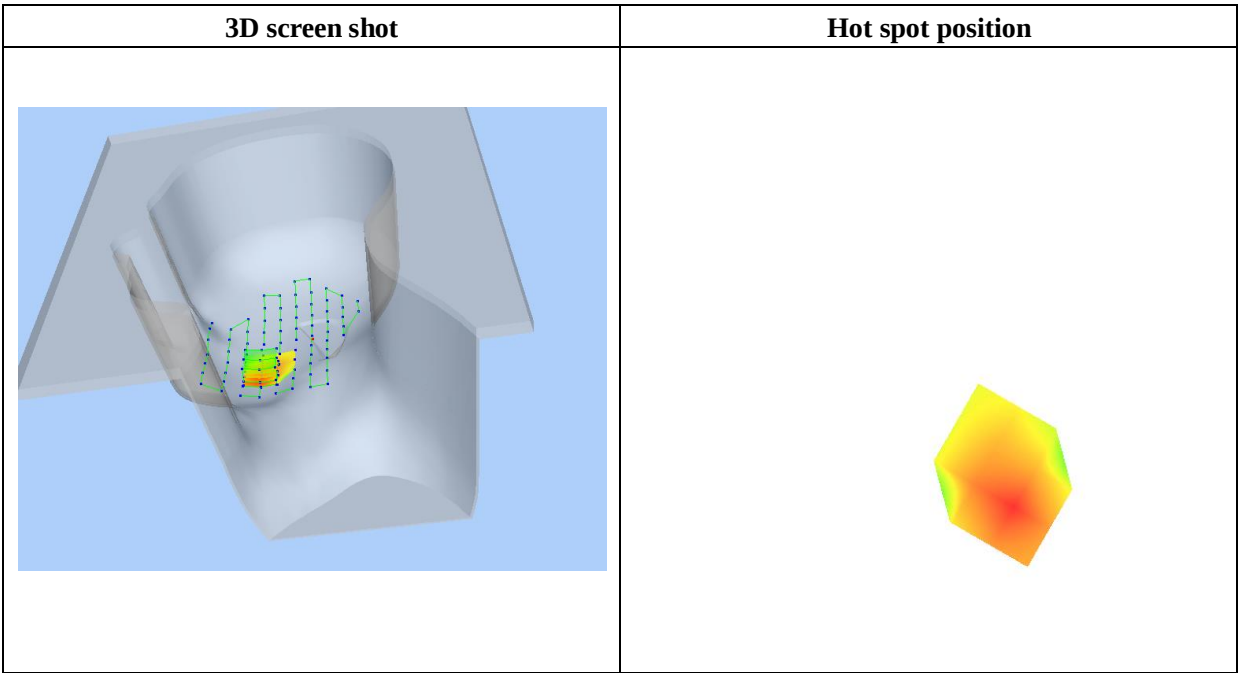
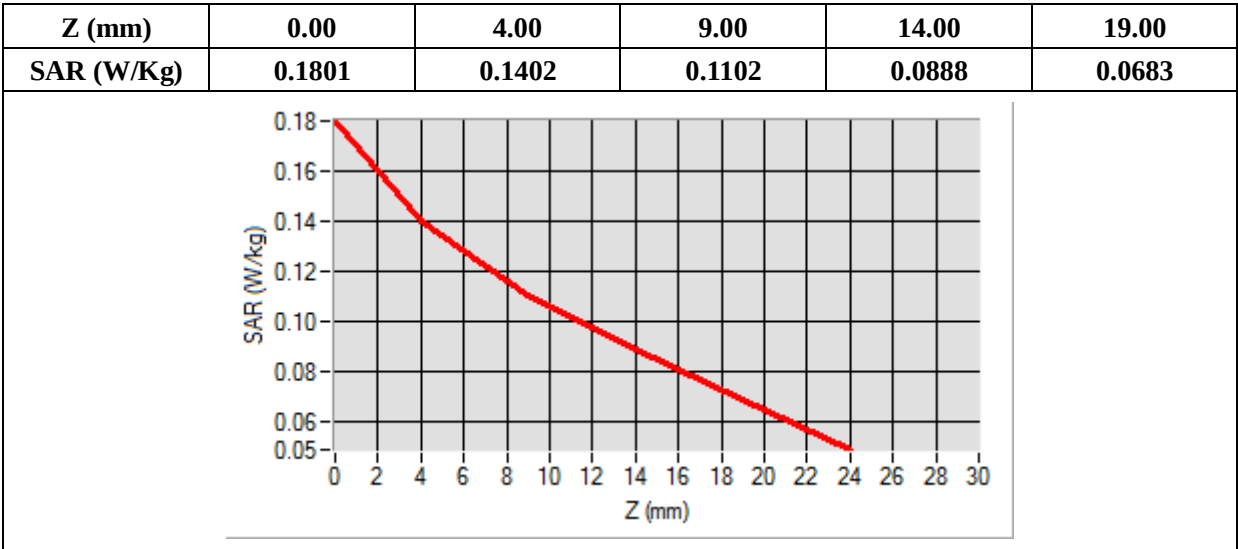
Frequency (MHz)	836.600000
Relative Permittivity (real part)	42.702834
Conductivity (S/m)	0.918612
Power Variation (%)	-1.780000
Ambient Temperature	22.1
Liquid Temperature	22.1



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

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.101496
SAR 1g (W/Kg)	0.134925



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 2021-05-08

Measurement duration: 11 minutes 48 seconds

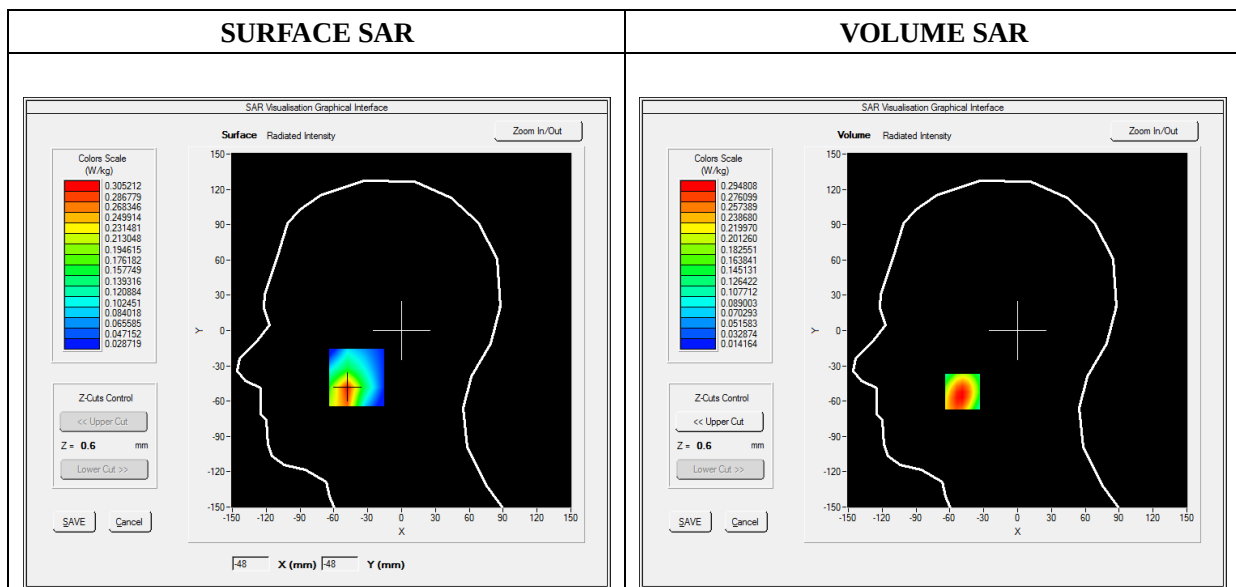
E-field Probe: SN 09/13 EP168; ConvF: 6.35; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

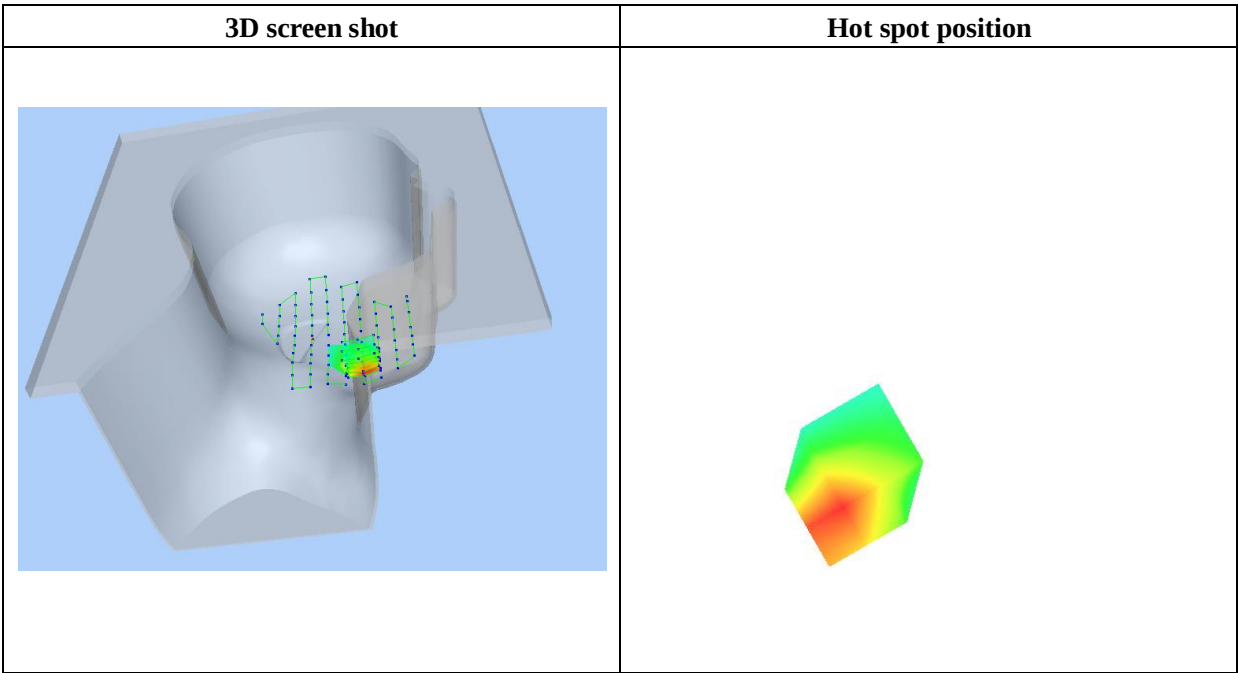
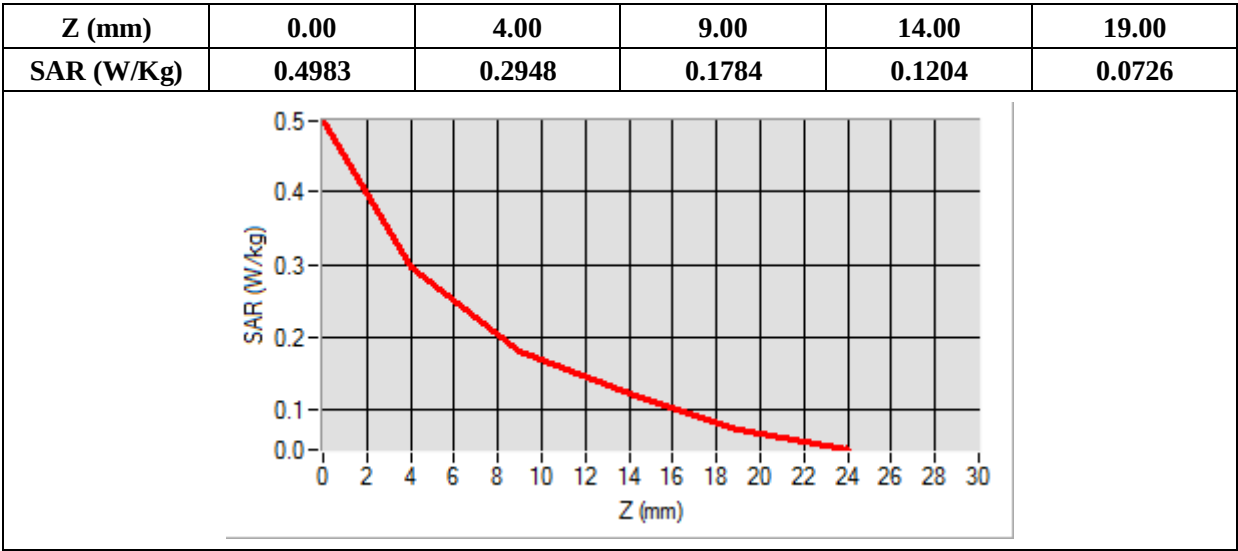
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	39.570296
Conductivity (S/m)	1.403845
Power Variation (%)	-1.980000
Ambient Temperature	22.3
Liquid Temperature	22.3



Maximum location: X=-49.00, Y=-52.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.166715
SAR 1g (W/Kg)	0.278211



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 2021-05-08

Measurement duration: 11 minutes 48 seconds

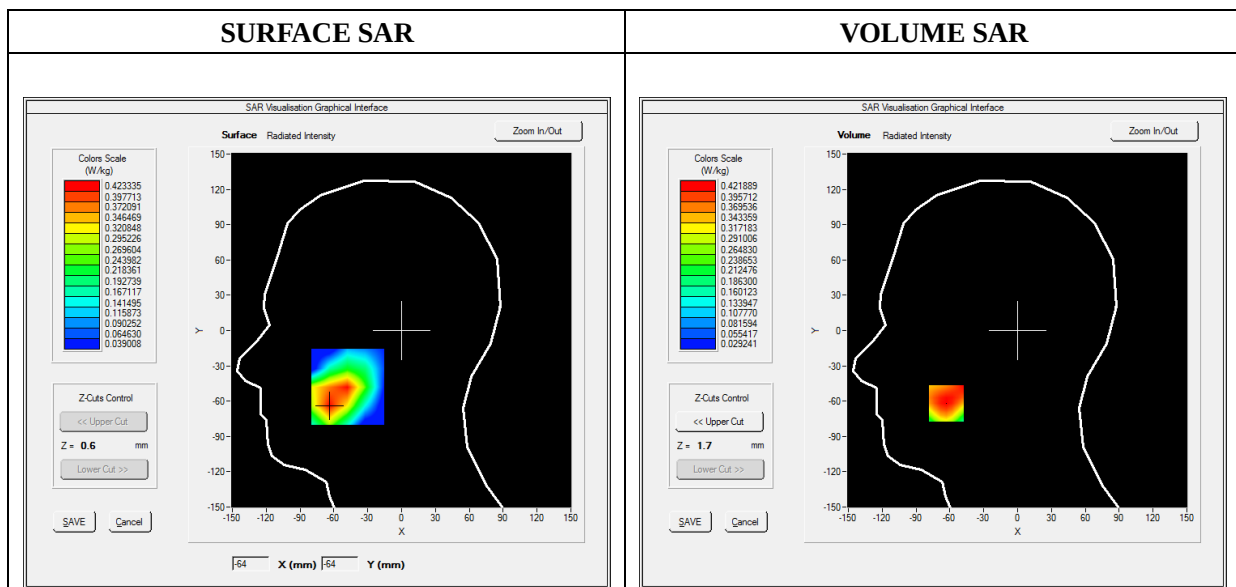
E-field Probe: SN 09/13 EP168; ConvF: 6.35; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA1900_RMC
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

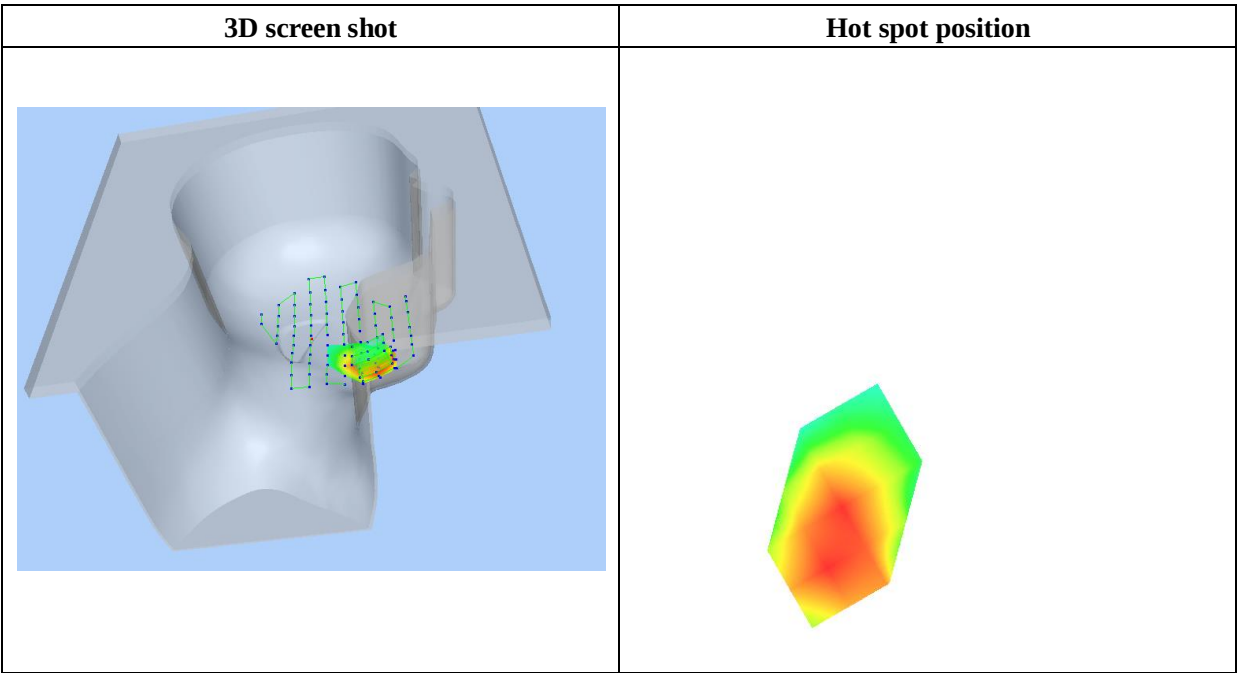
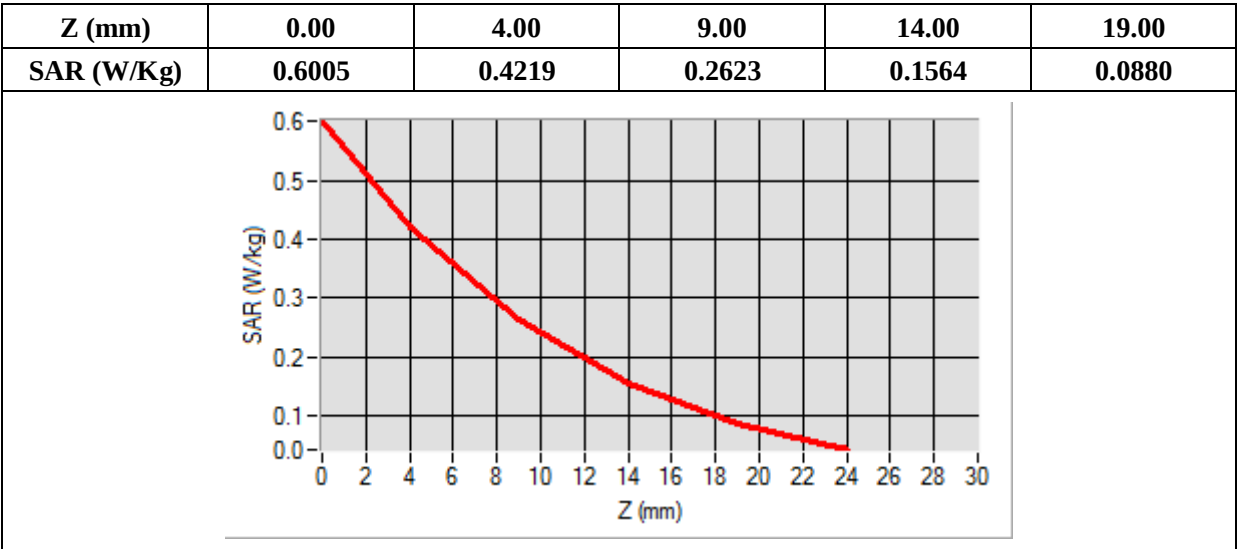
Frequency (MHz)	1907.600000
Relative Permittivity (real part)	39.570296
Conductivity (S/m)	1.403845
Power Variation (%)	-0.260000
Ambient Temperature	22.3
Liquid Temperature	22.3



Maximum location: X=-63.00, Y=-62.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.248593
SAR 1g (W/Kg)	0.399860



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 2021-05-06

Measurement duration: 12 minutes 3 seconds

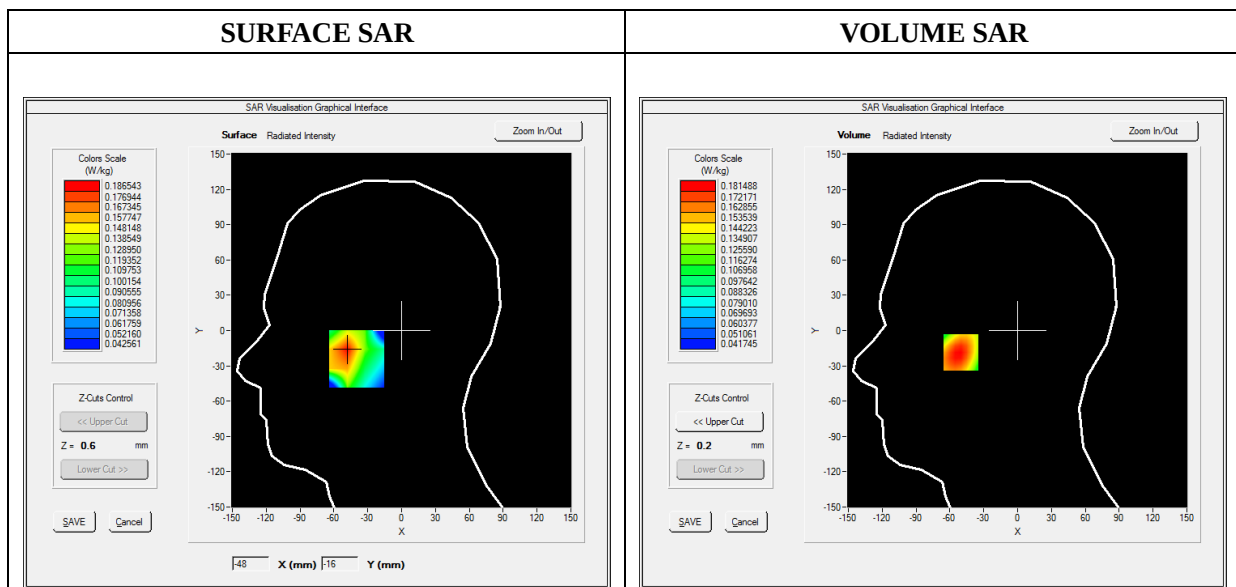
E-field Probe: SN 09/13 EP168; ConvF: 6.93; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA850_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

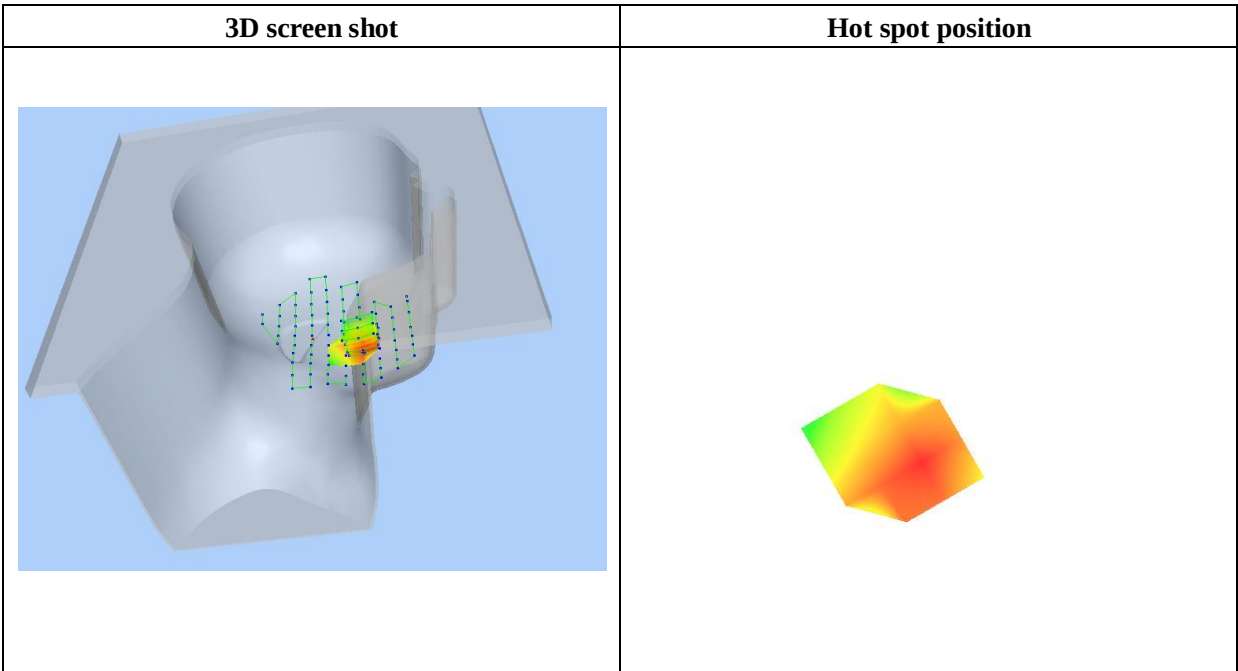
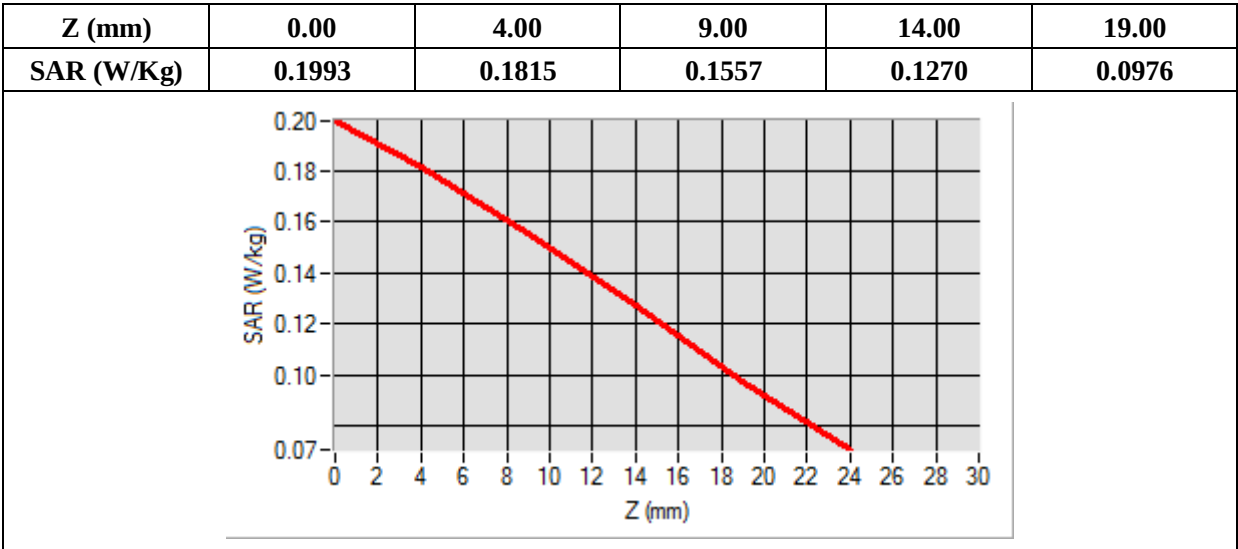
Frequency (MHz)	826.400000
Relative Permittivity (real part)	42.781453
Conductivity (S/m)	0.911085
Power Variation (%)	-1.200000
Ambient Temperature	22.1
Liquid Temperature	22.1



Maximum location: X=-50.00, Y=-18.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.134791
SAR 1g (W/Kg)	0.175037



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 2021-05-06

Measurement duration: 12 minutes 3 seconds

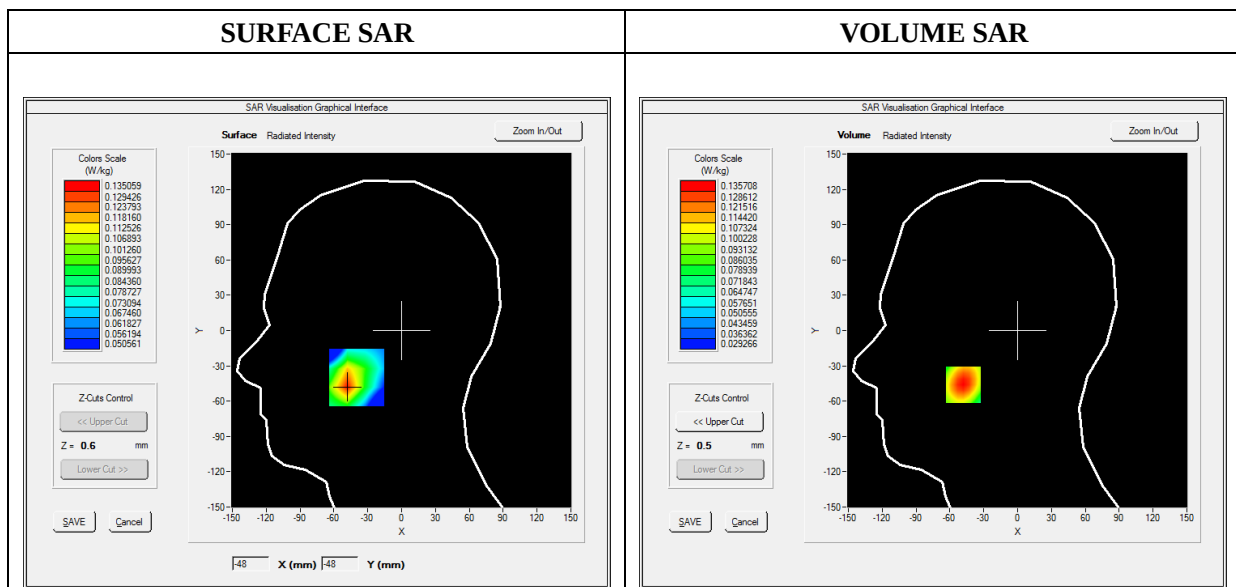
E-field Probe: SN 09/13 EP168; ConvF: 6.93; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

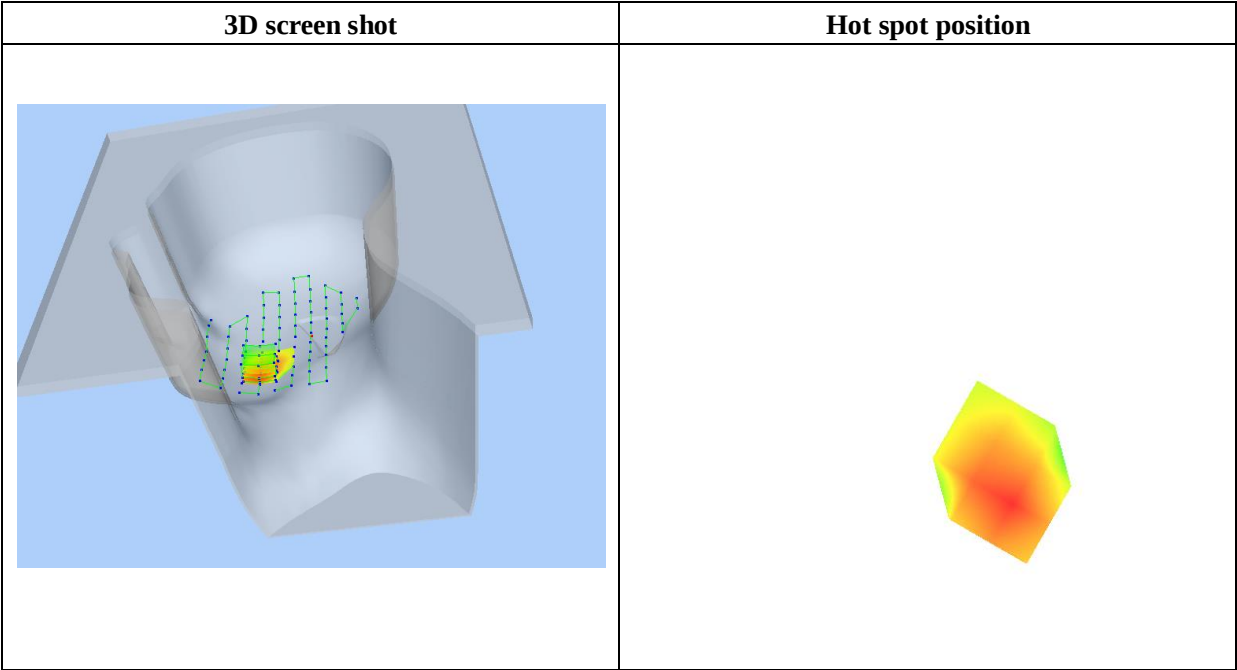
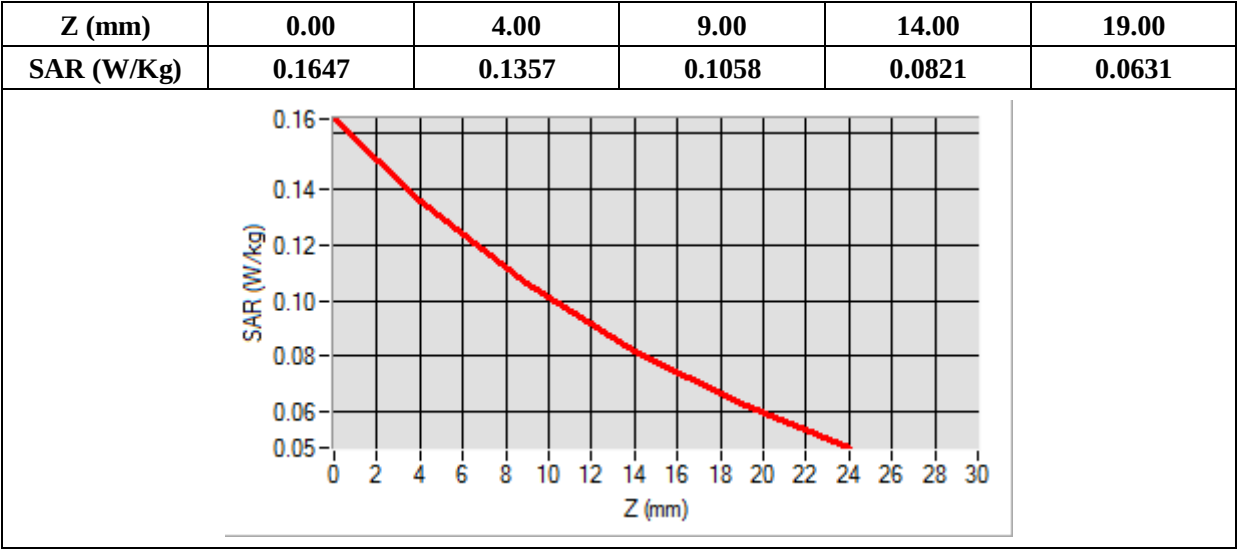
Frequency (MHz)	836.500000
Relative Permittivity (real part)	42.702834
Conductivity (S/m)	0.918612
Power Variation (%)	-1.830000
Ambient Temperature	22.1
Liquid Temperature	22.1



Maximum location: X=-48.00, Y=-46.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.093038
SAR 1g (W/Kg)	0.128885



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

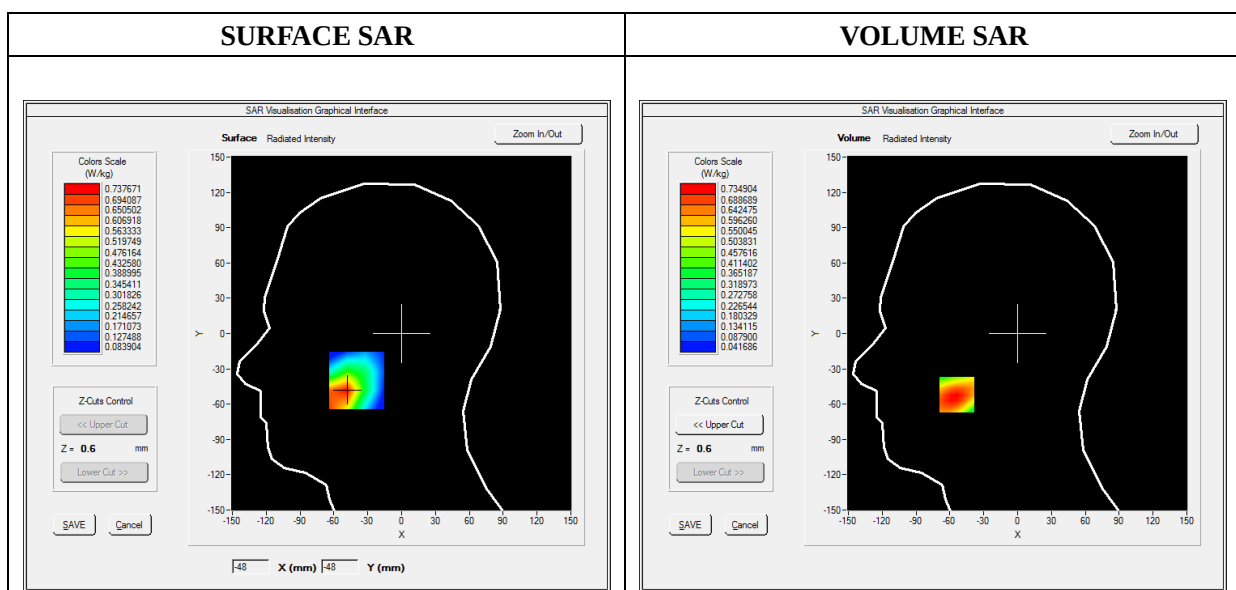
E-field Probe: SN 09/13 EP168; ConvF: 5.37; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 7
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

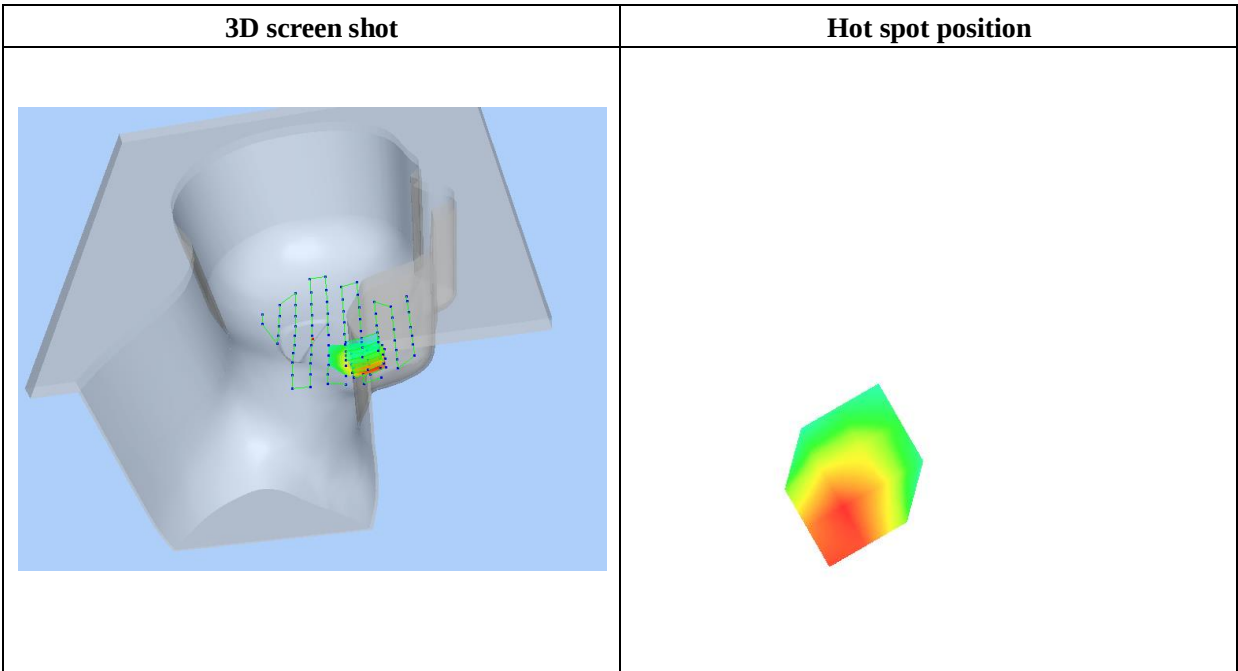
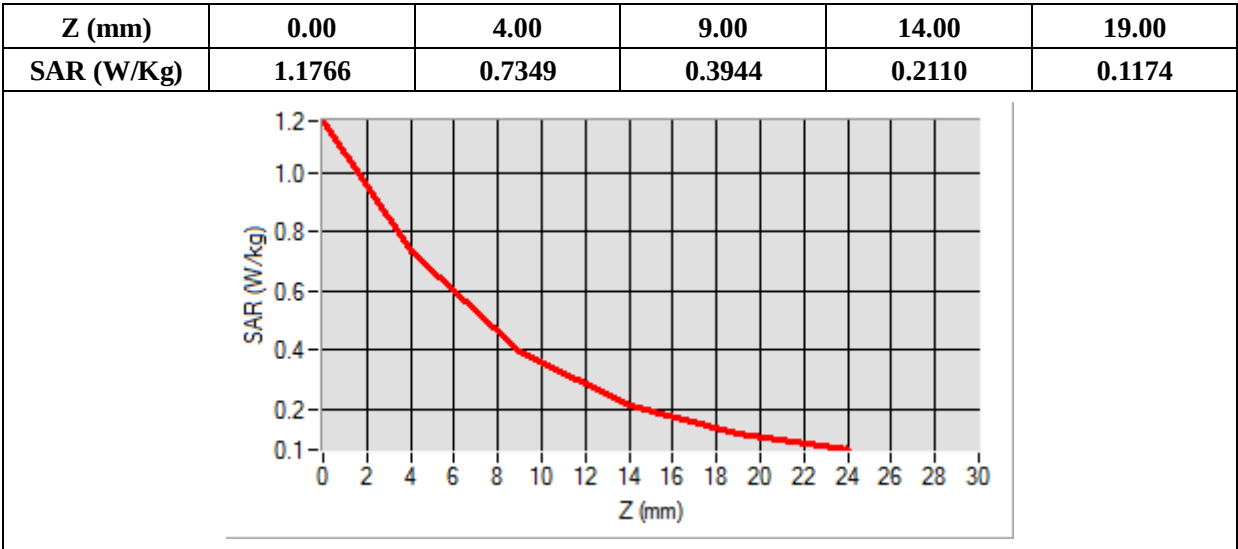
Frequency (MHz)	2510.000000
Relative Permittivity (real part)	39.481257
Conductivity (S/m)	1.926332
Power Variation (%)	-1.410000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=-54.00, Y=-52.00

SAR Peak: 1.18 W/kg

SAR 10g (W/Kg)	0.394324
SAR 1g (W/Kg)	0.698464



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

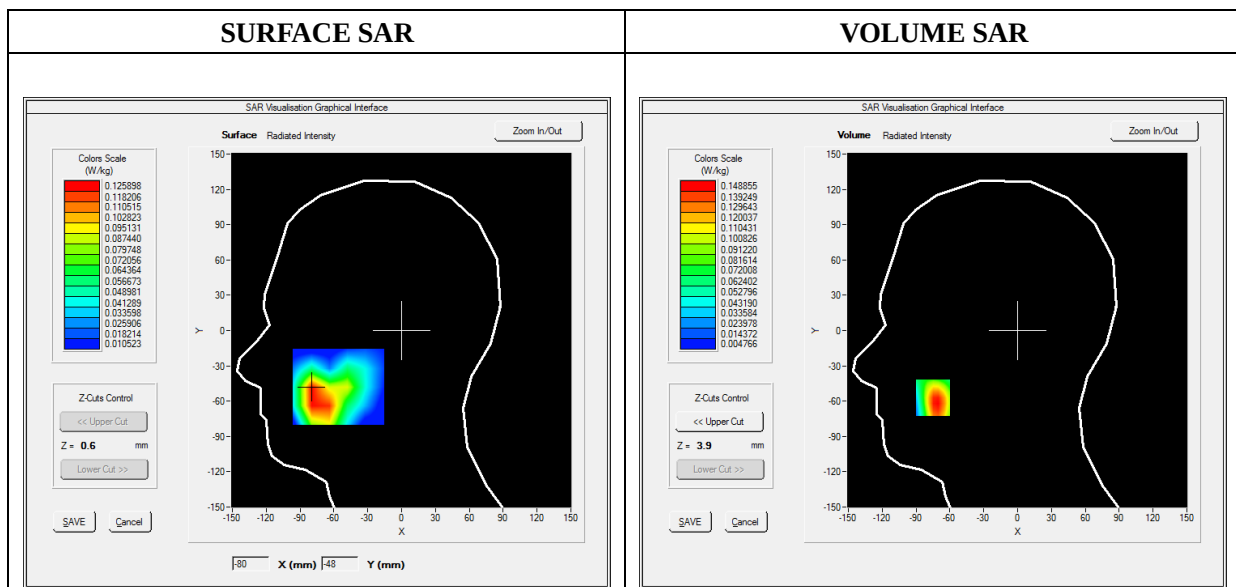
E-field Probe: SN 09/13 EP168; ConvF: 5.37; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 38
Channels	QPSK, 20MHz, 1RB,High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

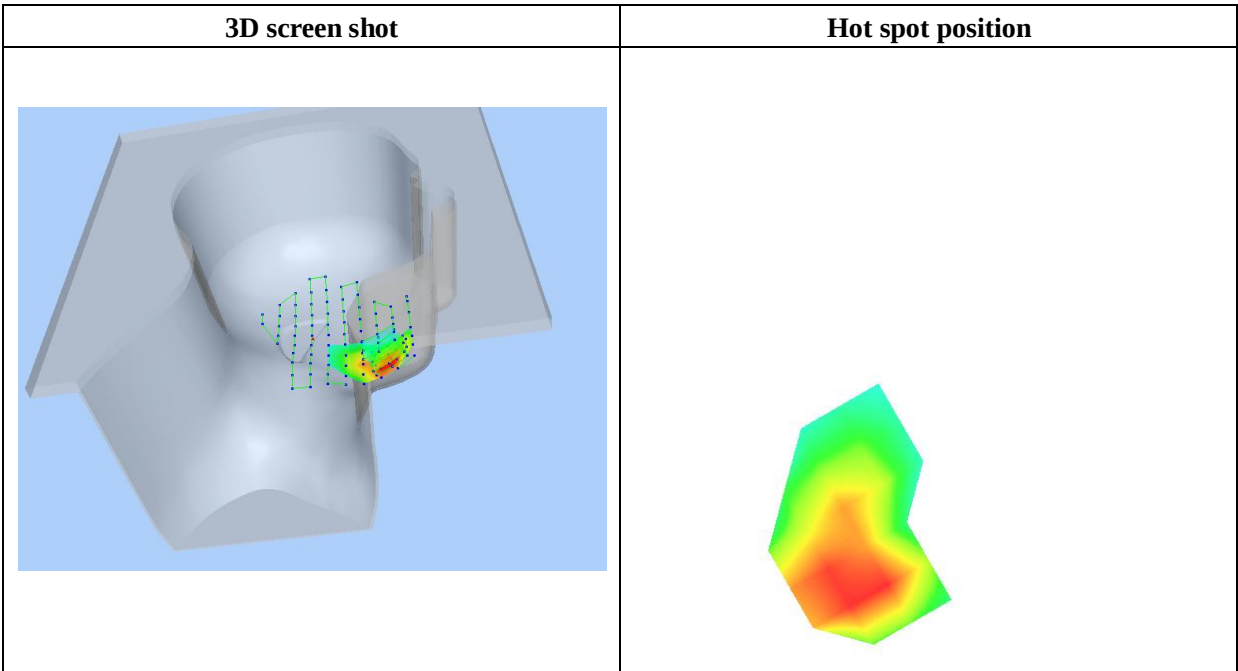
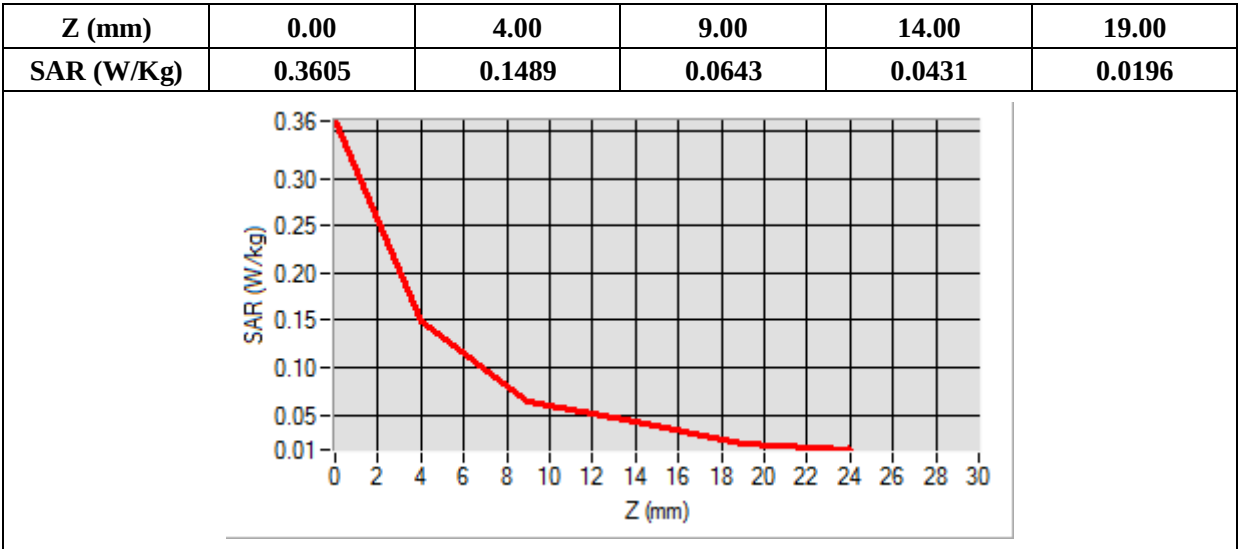
Frequency (MHz)	2610.000000
Relative Permittivity (real part)	39.218356
Conductivity (S/m)	1.990324
Power Variation (%)	0.040000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=-75.00, Y=-57.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.078027
SAR 1g (W/Kg)	0.144400



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

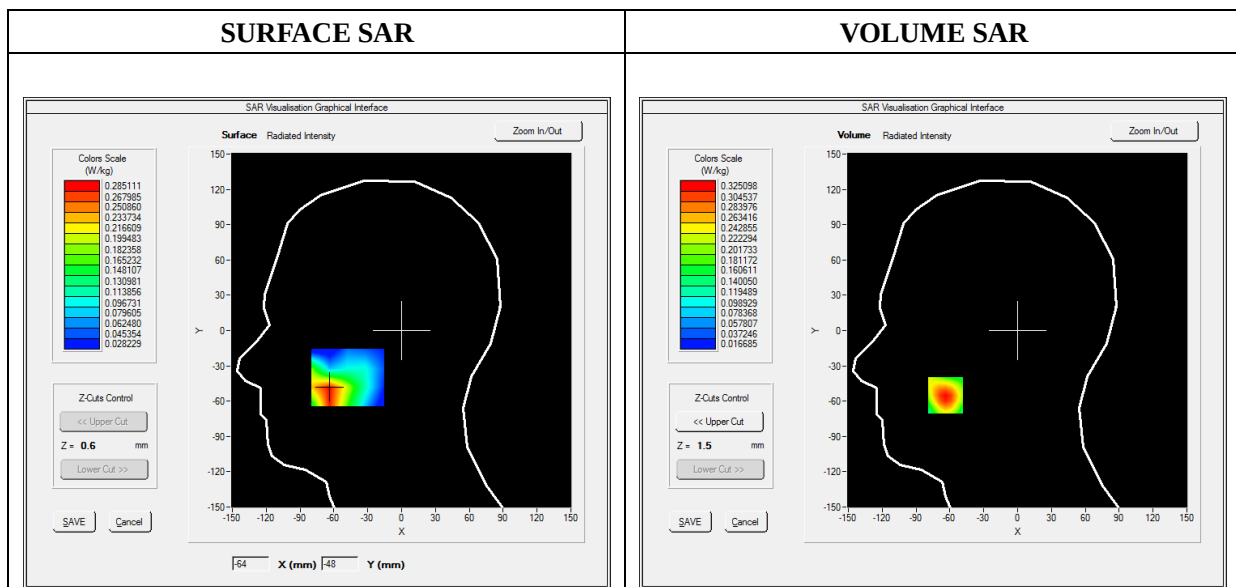
E-field Probe: SN 09/13 EP168; ConvF: 5.64; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 40 a
Channels	QPSK, 10MHz, 1RB,Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

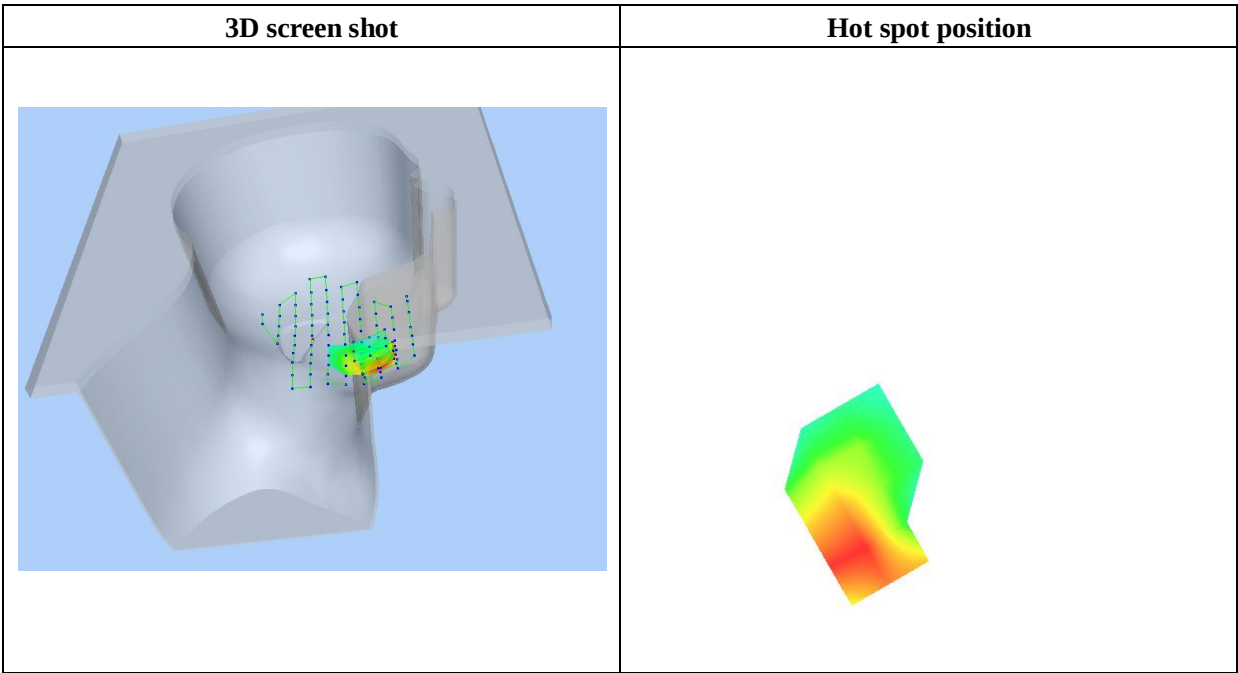
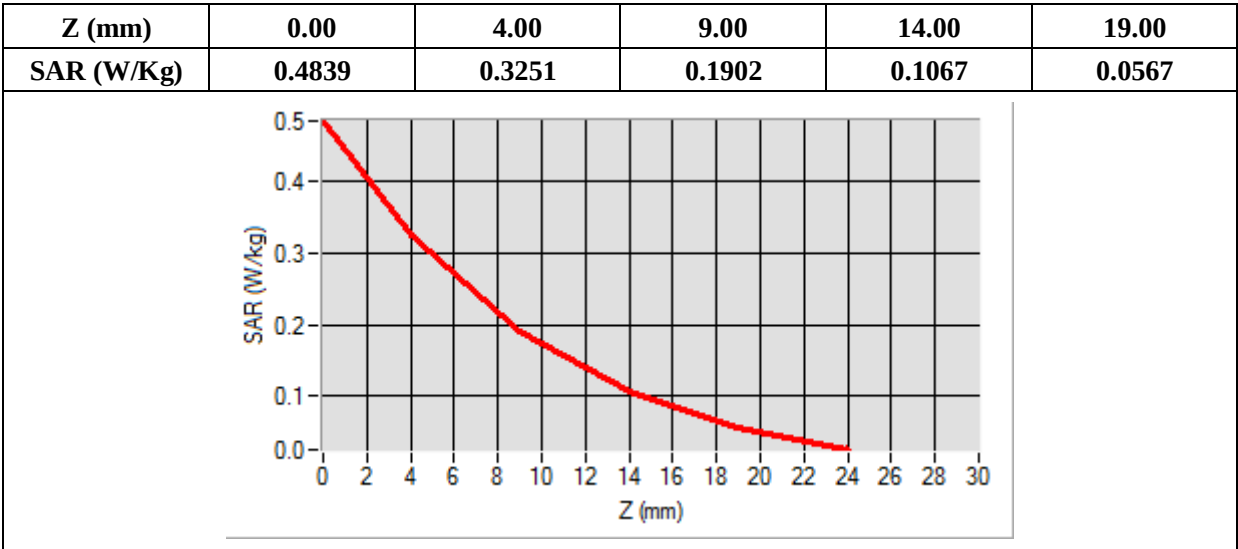
Frequency (MHz)	2310.000000
Relative Permittivity (real part)	40.382660
Conductivity (S/m)	1.730236
Power Variation (%)	-0.910000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=-64.00, Y=-55.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.167850
SAR 1g (W/Kg)	0.301533



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

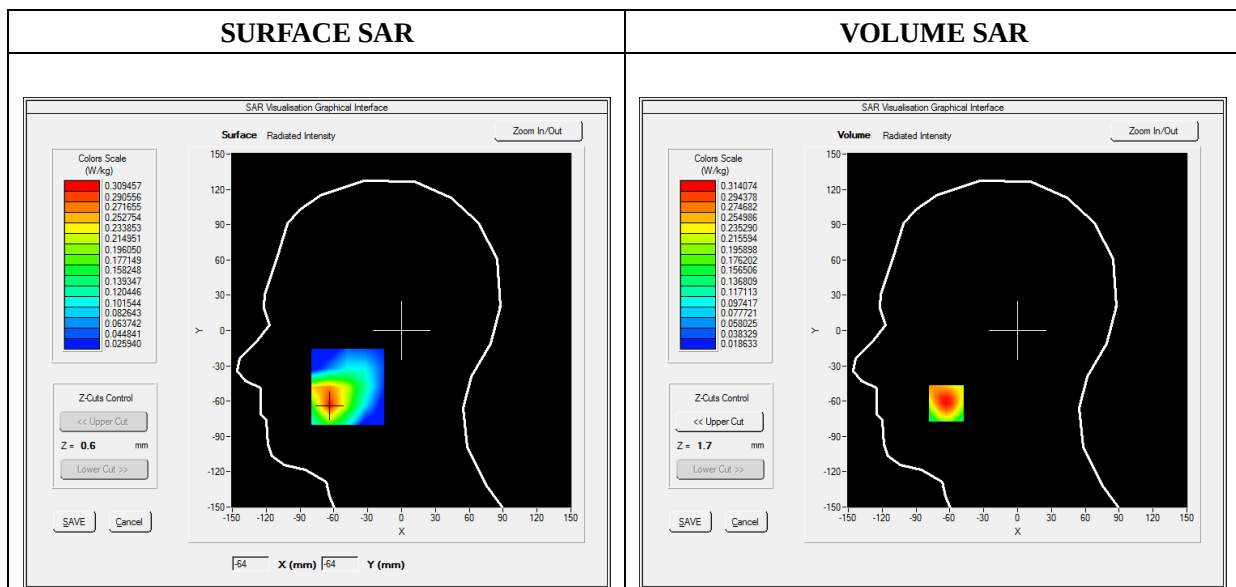
E-field Probe: SN 09/13 EP168; ConvF: 5.64; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 40 b
Channels	QPSK, 10MHz, 1RB,Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

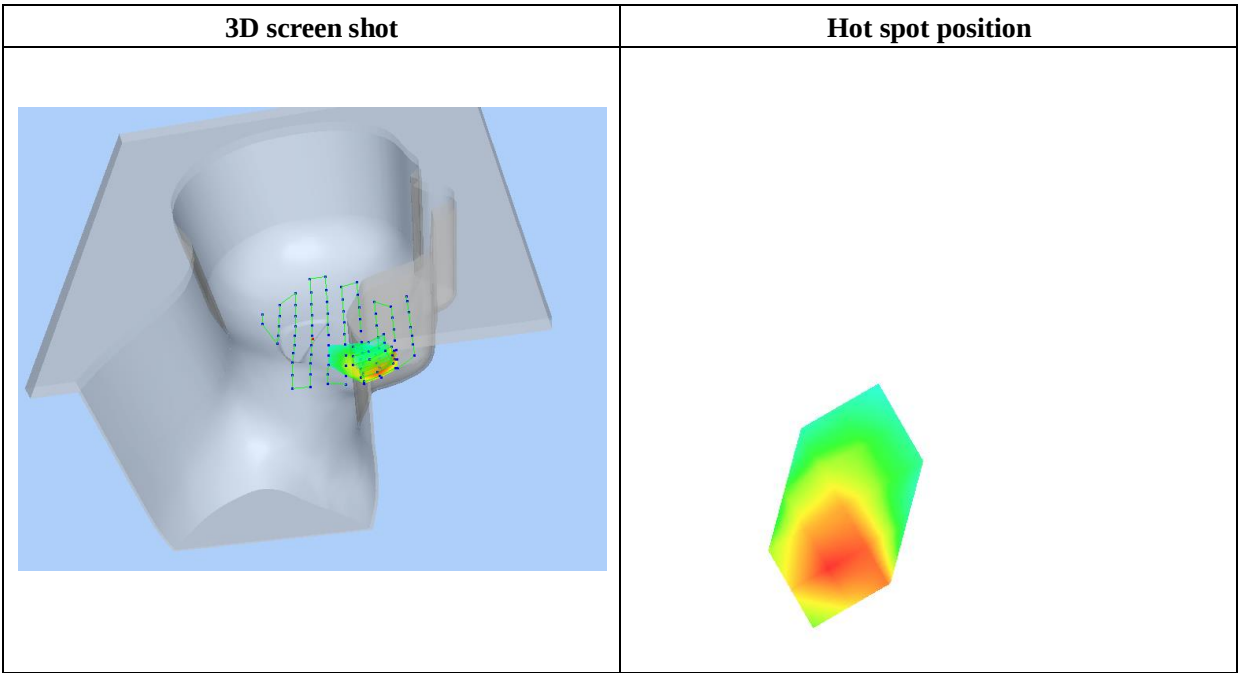
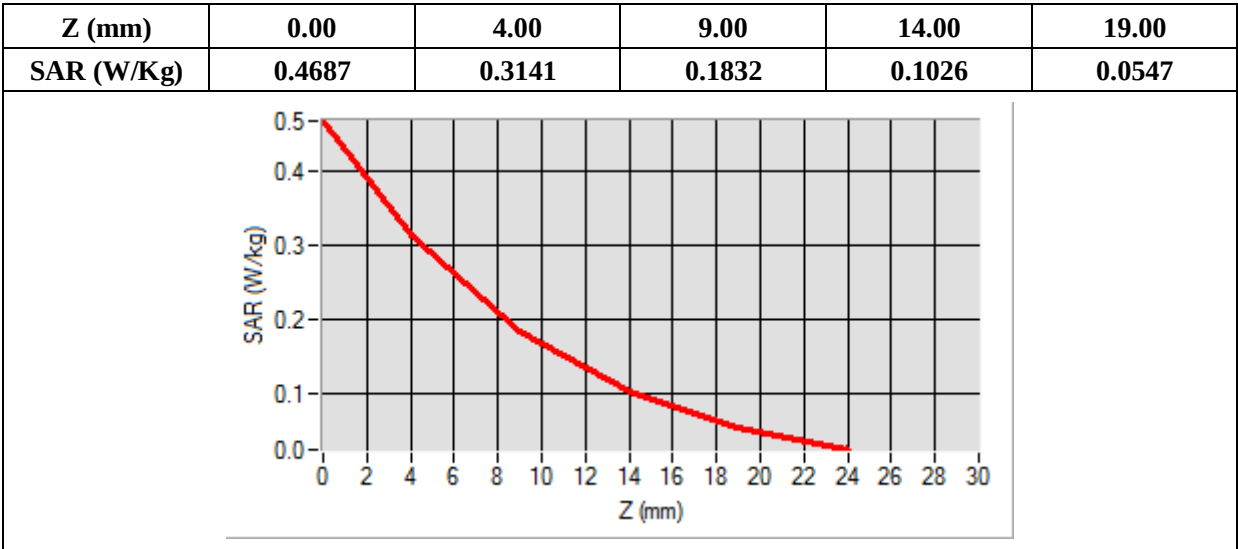
Frequency (MHz)	2355.000000
Relative Permittivity (real part)	40.521374
Conductivity (S/m)	1.750889
Power Variation (%)	-0.150000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=-63.00, Y=-62.00

SAR Peak: 0.48 W/kg

SAR 10g (W/Kg)	0.167361
SAR 1g (W/Kg)	0.295288



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

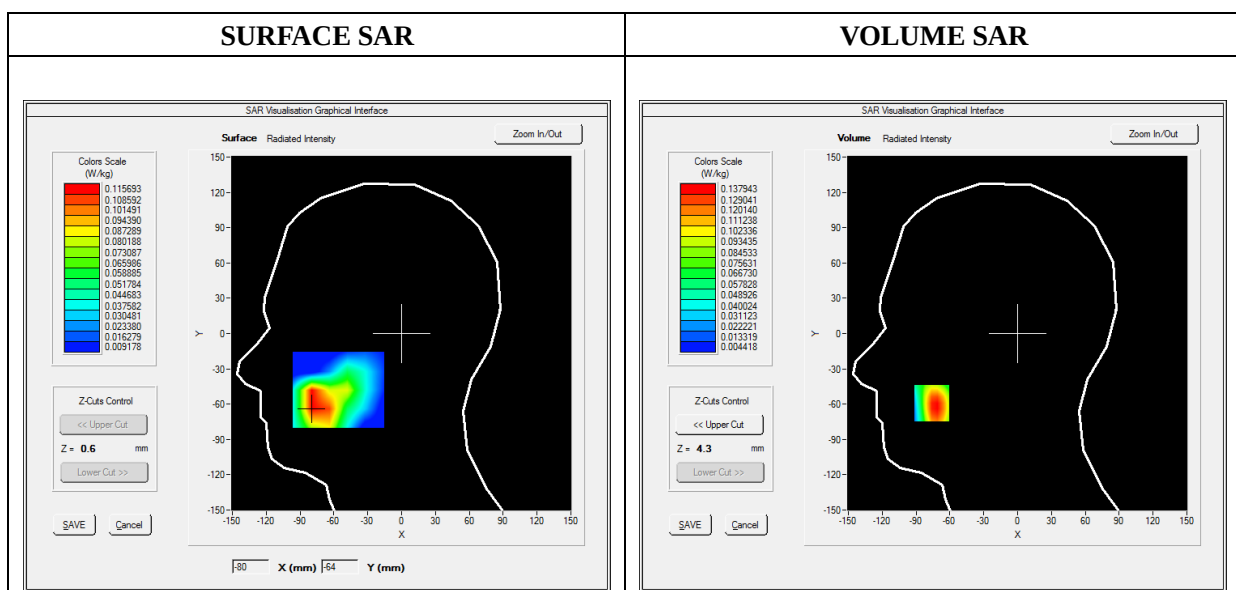
E-field Probe: SN 09/13 EP168; ConvF: 5.37; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 41
Channels	QPSK, 20MHz, 1RB,Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

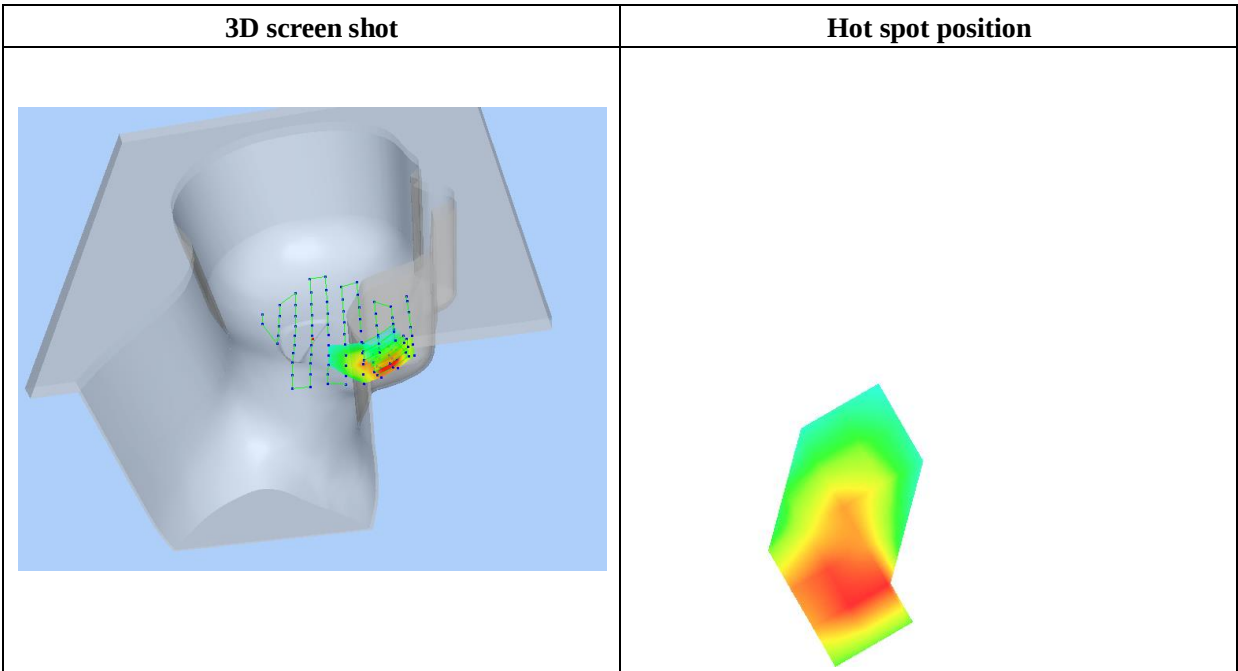
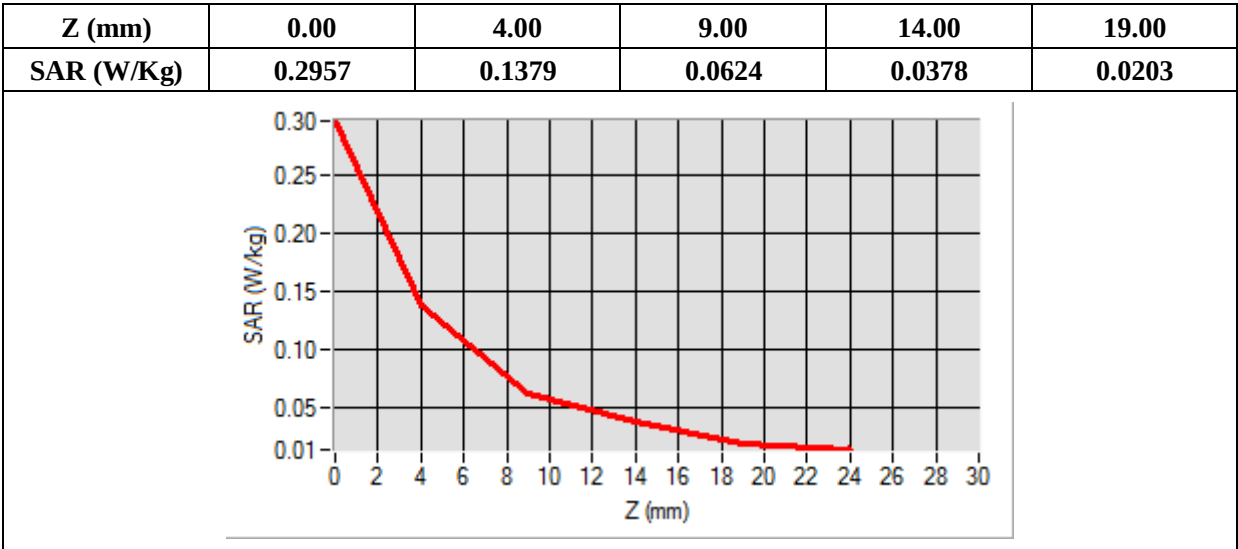
Frequency (MHz)	2593.000000
Relative Permittivity (real part)	39.218356
Conductivity (S/m)	1.990324
Power Variation (%)	1.050000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=-76.00, Y=-59.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.071938
SAR 1g (W/Kg)	0.132007



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

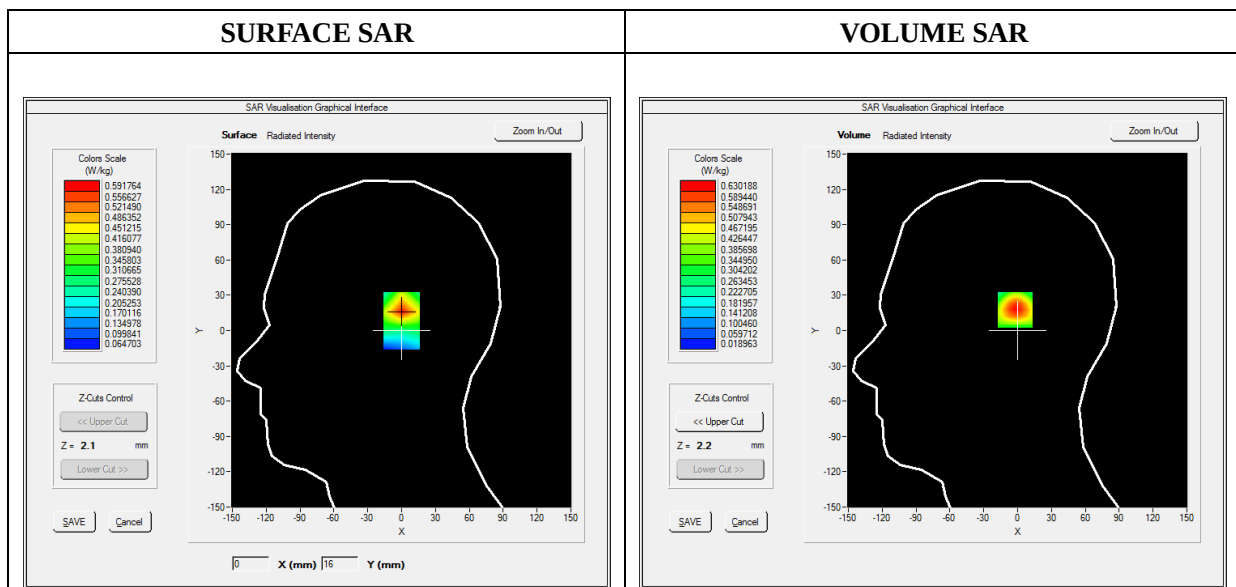
E-field Probe: SN 09/13 EP168; ConvF: 5.64; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Right head
Device Position	Cheek
Band	WiFi_802.11b
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

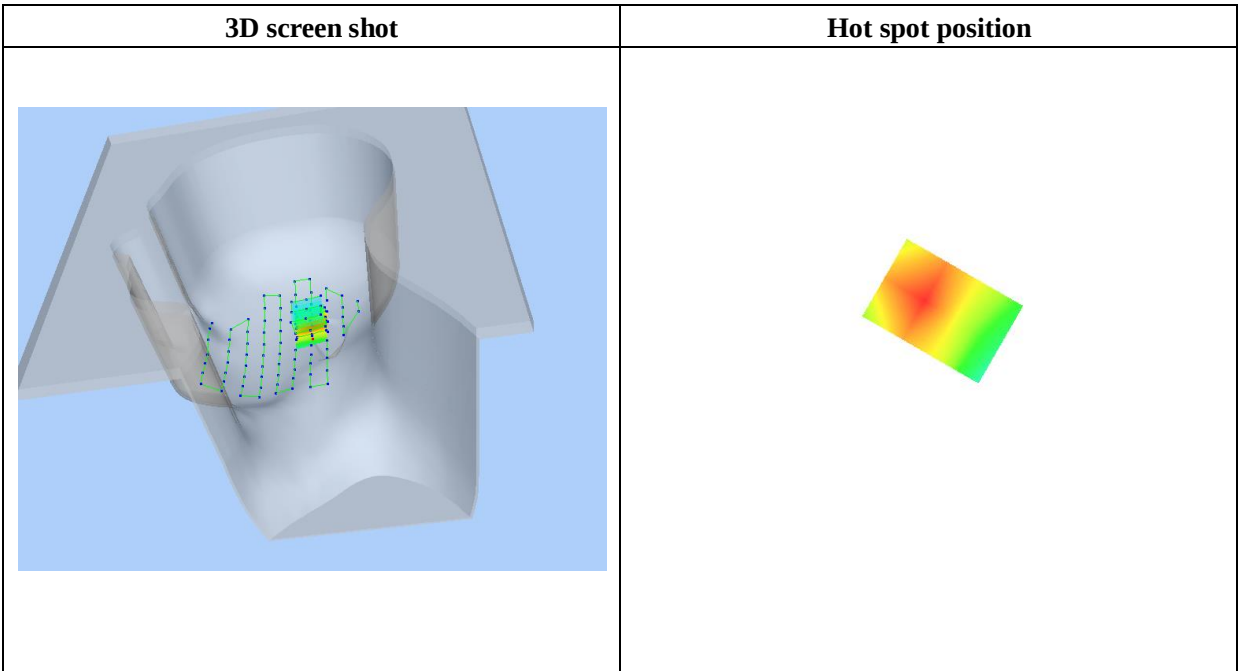
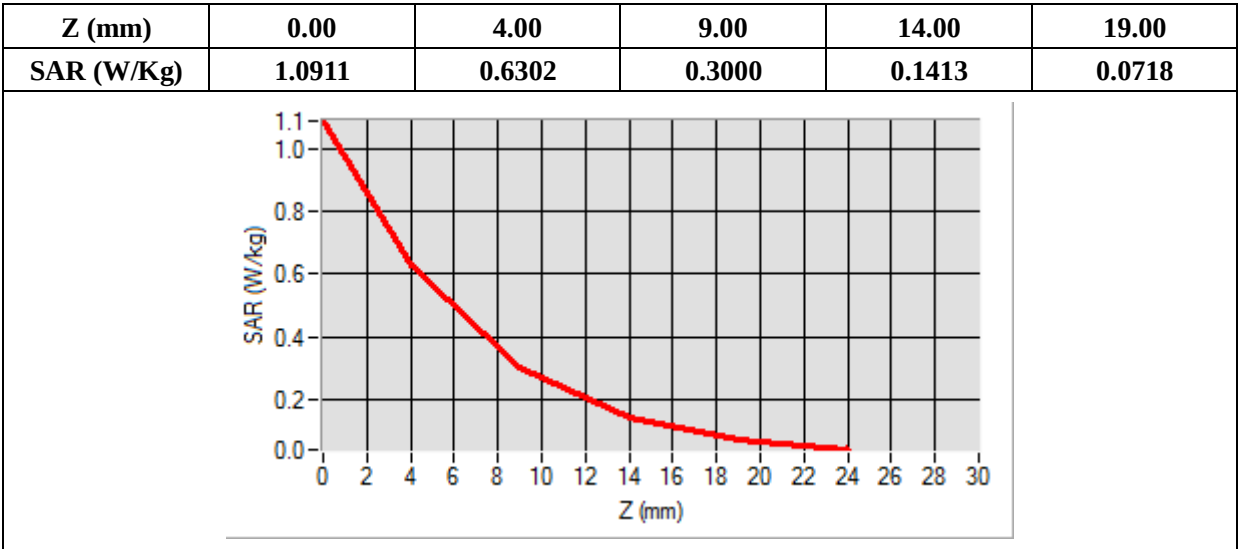
Frequency (MHz)	2462.000000
Relative Permittivity (real part)	39.804726
Conductivity (S/m)	1.828174
Power Variation (%)	-0.320000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=0.00, Y=18.00

SAR Peak: 1.09 W/kg

SAR 10g (W/Kg)	0.297753
SAR 1g (W/Kg)	0.585925



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 2021-05-11

Measurement duration: 12 minutes 3 seconds

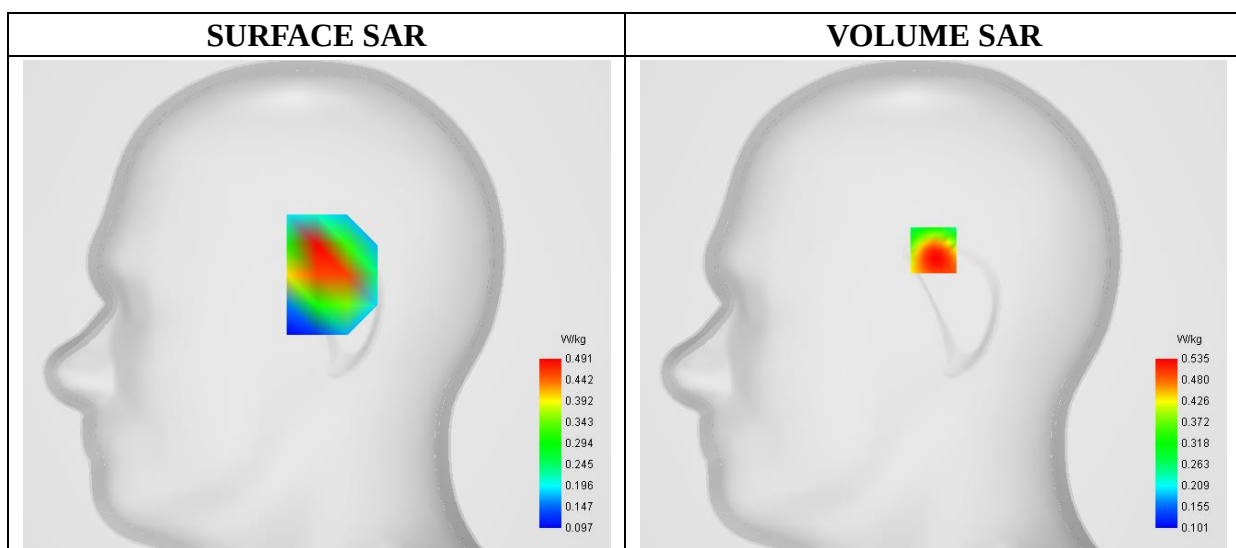
E-field Probe: SN 45/15 EPGO280; ConvF: 2.44; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Right head
Device Position	Cheek
Band	WiFi(5.2GHz)_802.11n40
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

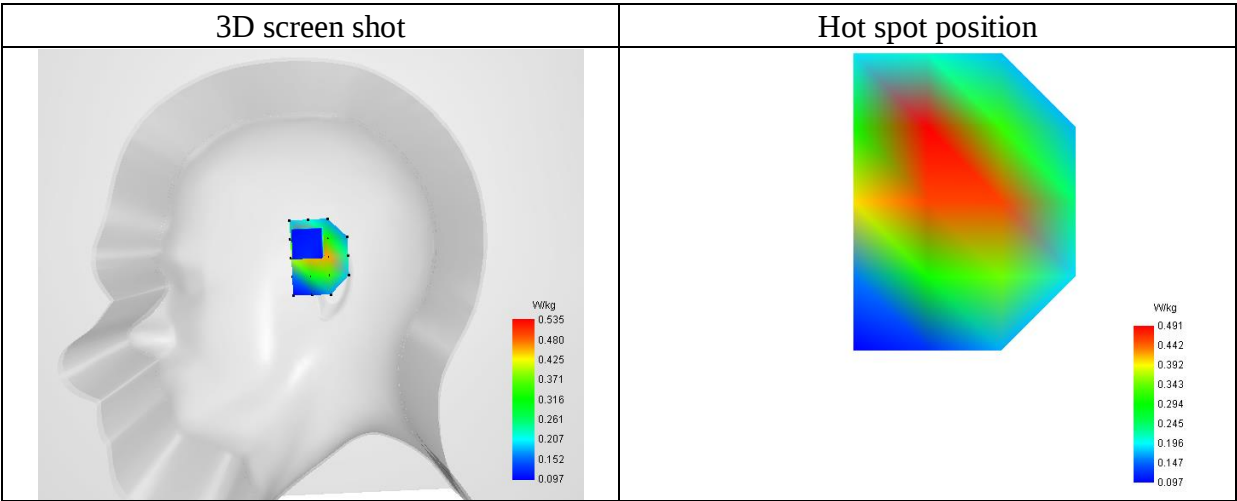
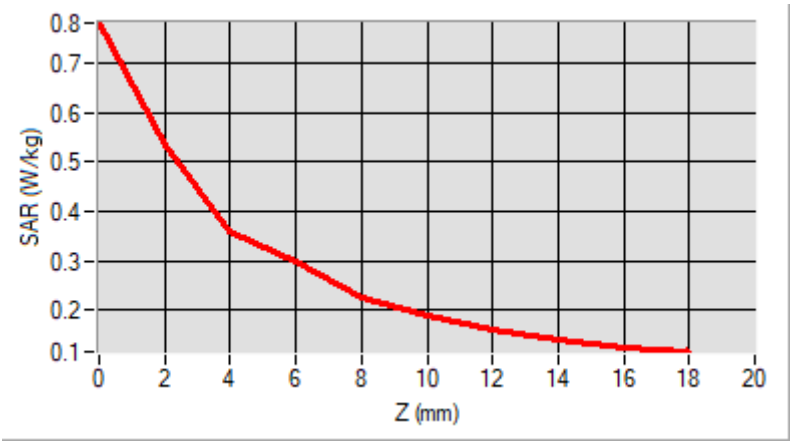
Frequency (MHz)	5230.000000
Relative Permittivity (real part)	37.023869
Conductivity (S/m)	4.827611
Power Variation (%)	-0.940000
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=0.00, Y=29.00

SAR 10g (W/Kg)	0.289731
SAR 1g (W/Kg)	0.517410

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.7814	0.5346	0.3592	0.2970	0.2243	0.1875	0.1584	0.1394	0.1233



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 2021-05-11

Measurement duration: 12 minutes 3 seconds

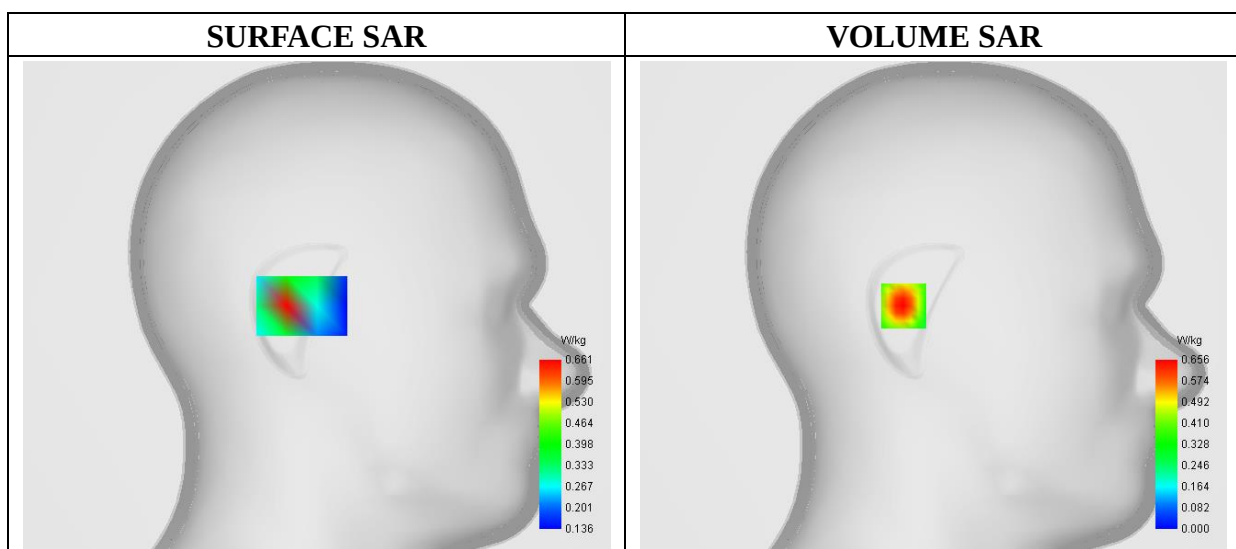
E-field Probe: SN 45/15 EPGO280; ConvF: 2.68; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.3GHz)_802.11 n (HT20)
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

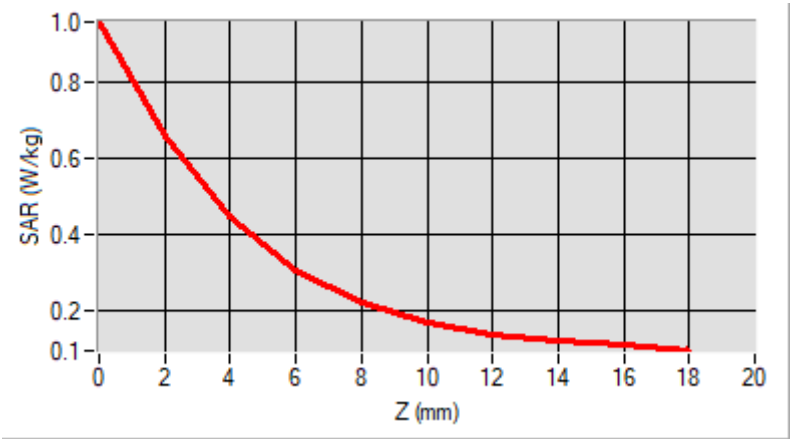
Frequency (MHz)	5320.000000
Relative Permittivity (real part)	36.920839
Conductivity (S/m)	4.870192
Power Variation (%)	0.460000
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=16.00, Y=0.00

SAR 10g (W/Kg)	0.309078
SAR 1g (W/Kg)	0.623997

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.9580	0.6557	0.4448	0.3053	0.2191	0.1671	0.1365	0.1191	0.1094



3D screen shot	Hot spot position
A 3D rendering of a human head model in profile, facing right. A small rectangular region on the ear is highlighted with a color gradient. To the right of the head is a vertical color scale for SAR (W/kg) with values: 0.000, 0.083, 0.165, 0.248, 0.331, 0.413, 0.496, 0.578, and 0.661. The color transitions from blue at the bottom to red at the top.	A 2D heatmap showing the hot spot position. The color scale on the right ranges from 0.136 to 0.661 W/kg with values: 0.136, 0.201, 0.267, 0.333, 0.398, 0.464, 0.530, 0.595, and 0.661. The color transitions from blue at the bottom to red at the top.

MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 2021-05-11

Measurement duration: 12 minutes 21 seconds

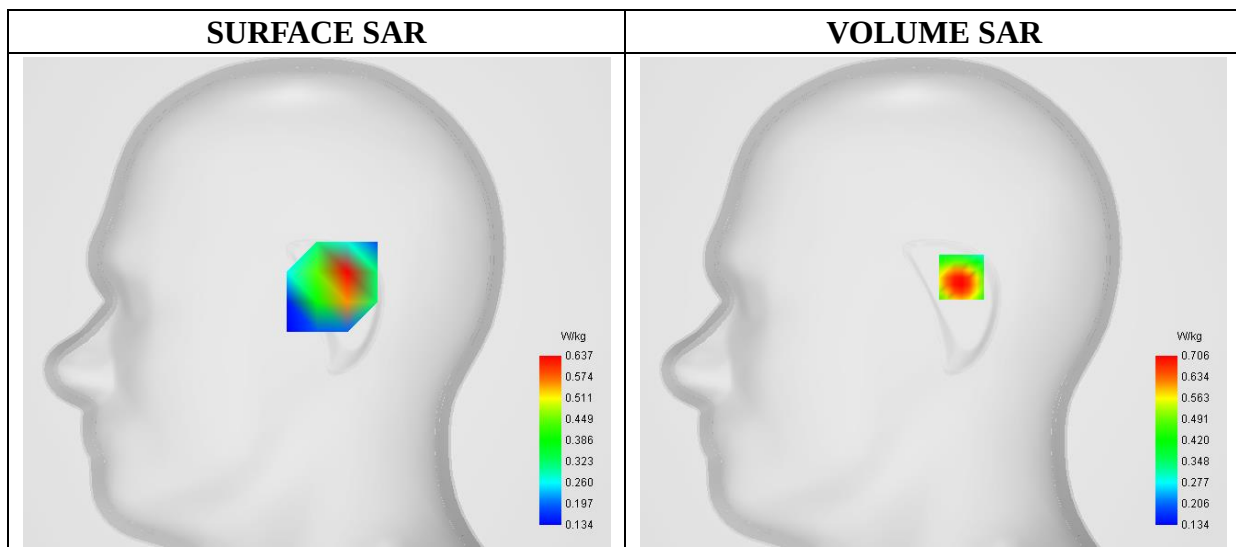
E-field Probe: SN 45/15 EPGO280; ConvF: 2.72; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Right Head
Device Position	Cheek
Band	WiFi(5.6GHz)_802.11 n (HT40)
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

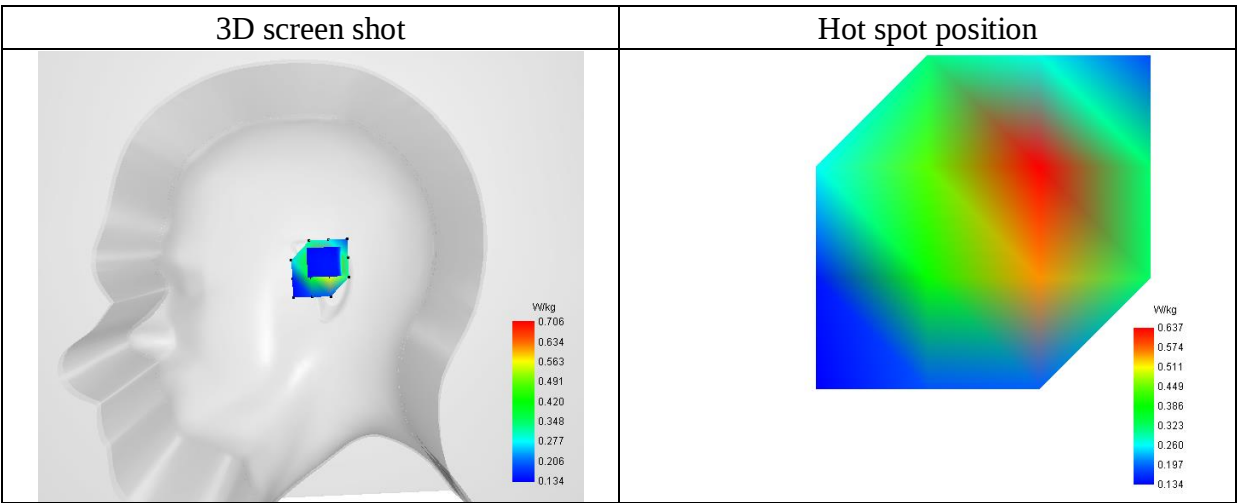
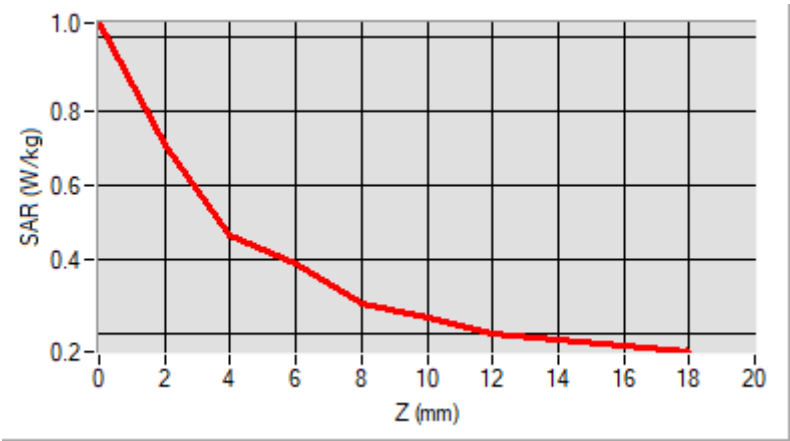
Frequency (MHz)	5510.000000
Relative Permittivity (real part)	35.540963
Conductivity (S/m)	5.045278
Power Variation (%)	-1.840000
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=15.00, Y=13.00

SAR 10g (W/Kg)	0.369080
SAR 1g (W/Kg)	0.677491

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.0366	0.7058	0.4635	0.3876	0.2803	0.2427	0.1982	0.1802	0.1647



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 2021-05-11

Measurement duration: 12 minutes 21 seconds

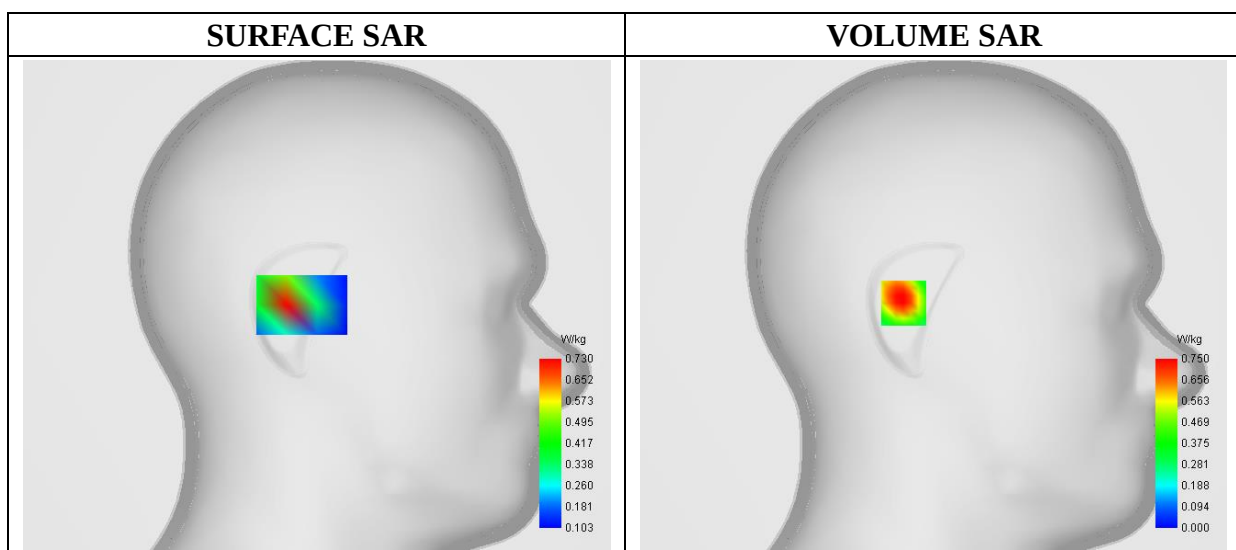
E-field Probe: SN 45/15 EPGO280; ConvF: 2.52; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.8GHz)_802.11 n (HT20)
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

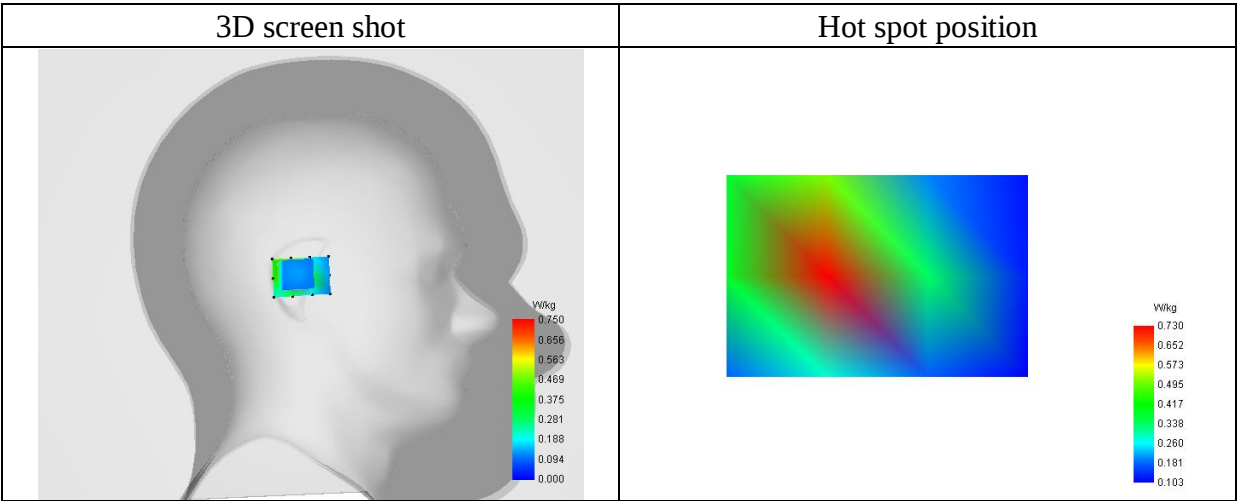
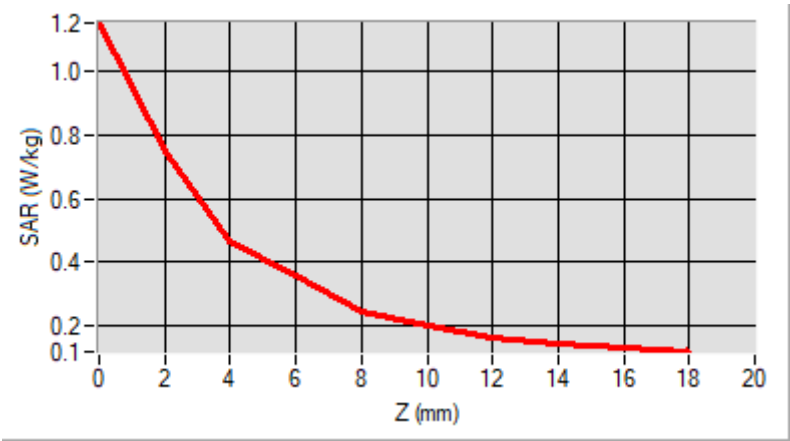
Frequency (MHz)	5745.000000
Relative Permittivity (real part)	35.142273
Conductivity (S/m)	5.270836
Power Variation (%)	-1.290000
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=16.00, Y=1.00

SAR 10g (W/Kg)	0.360643
SAR 1g (W/Kg)	0.727500

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.1541	0.7500	0.4658	0.3573	0.2472	0.2008	0.1630	0.1461	0.1329



MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 2021-05-06

Measurement duration: 12 minutes 48 seconds

E-field Probe: SN 09/13 EP168; ConvF: 6.93; Calibrated: 2020-05-22

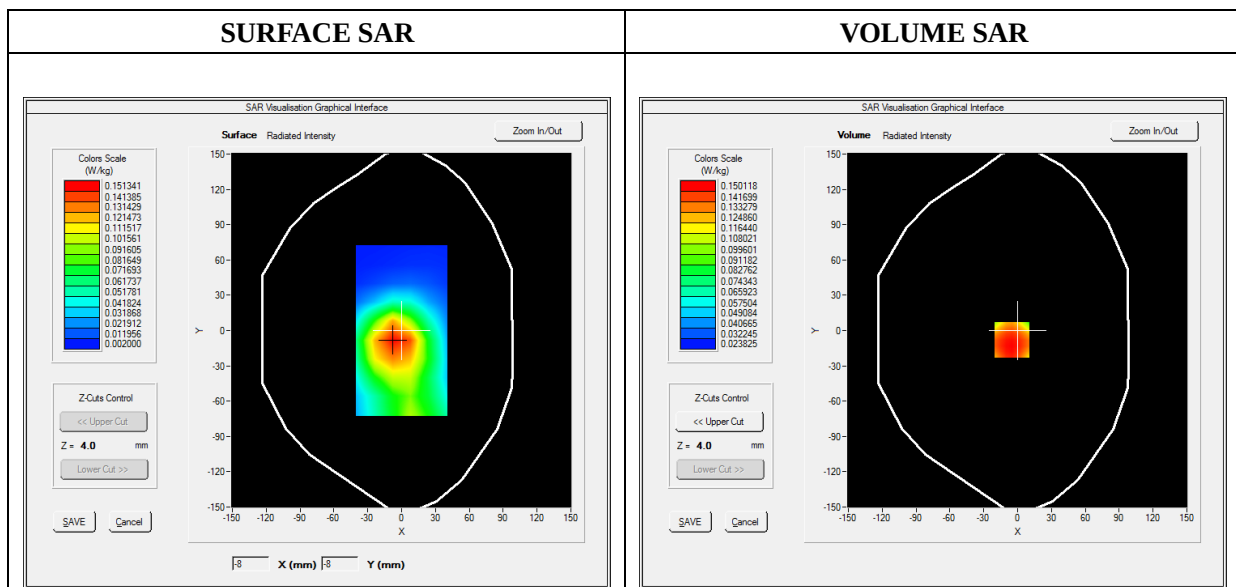
A. Experimental conditions

B.

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Back
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

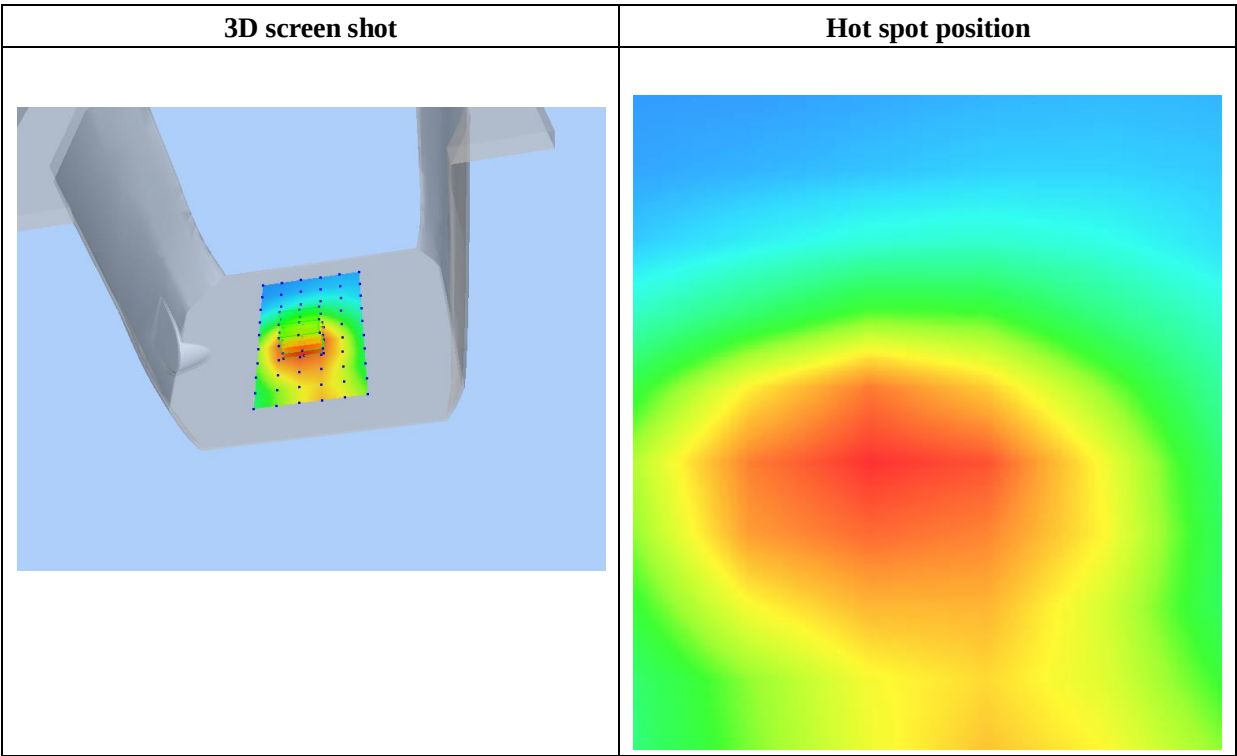
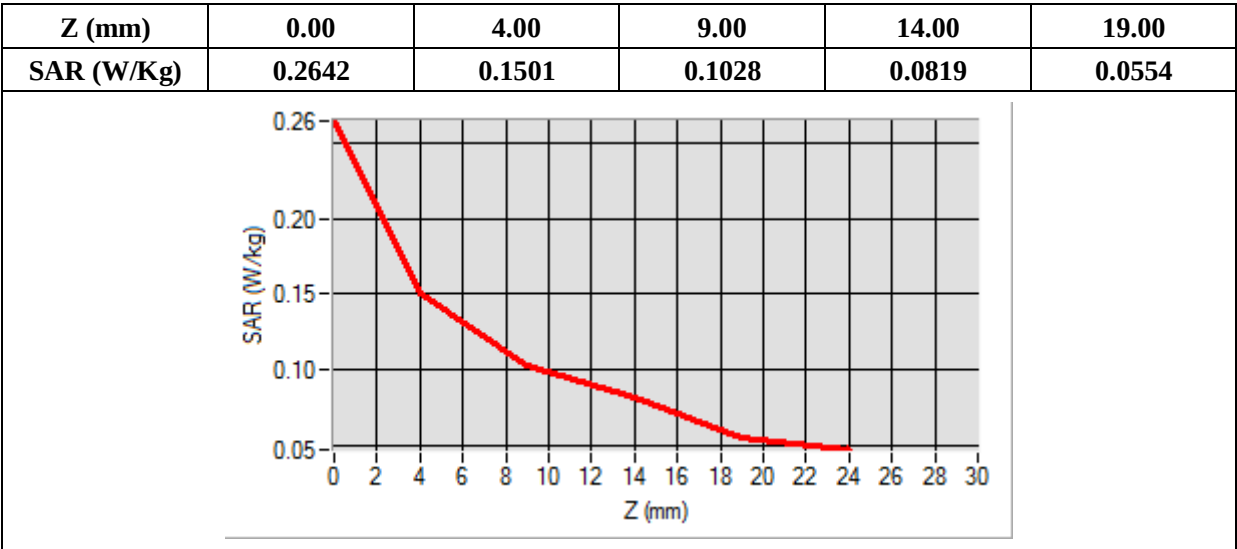
Frequency (MHz)	836.600000
Relative Permittivity (real part)	42.702834
Conductivity (S/m)	0.918612
Power Variation (%)	0.760000
Ambient Temperature	22.1
Liquid Temperature	22.1



Maximum location: X=-5.00, Y=-8.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.104149
SAR 1g (W/Kg)	0.144532



MEASUREMENT 17

Type: Phone measurement (Complete)

Date of measurement: 2021-05-08

Measurement duration: 11 minutes 48 seconds

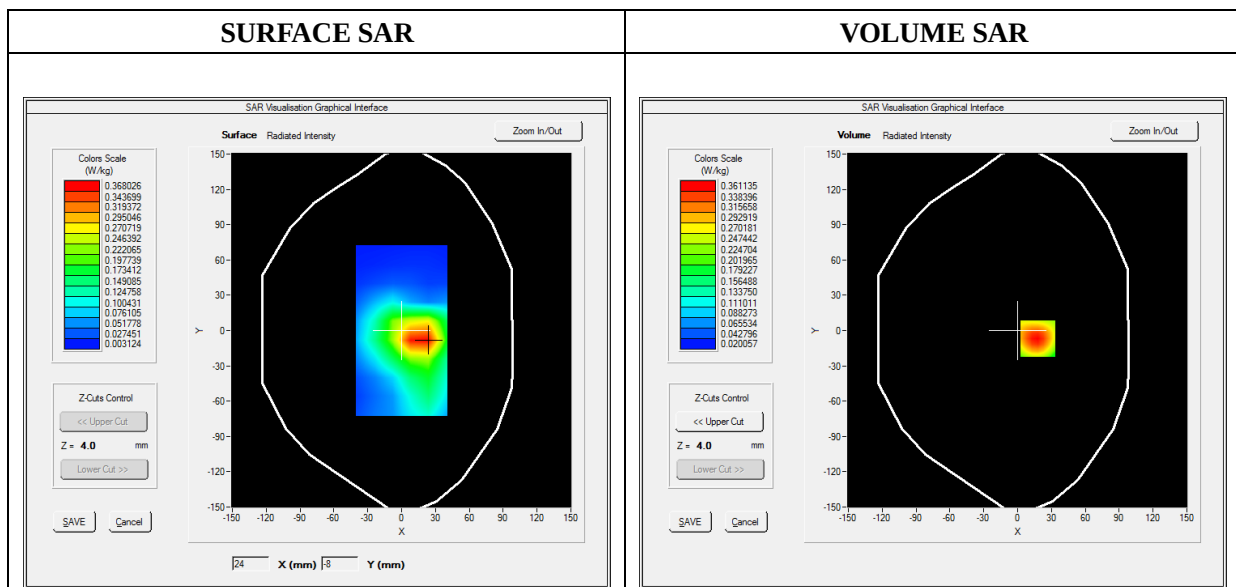
E-field Probe: SN 09/13 EP168; ConvF: 6.35; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Front
Band	GSM1900
Channels	High
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

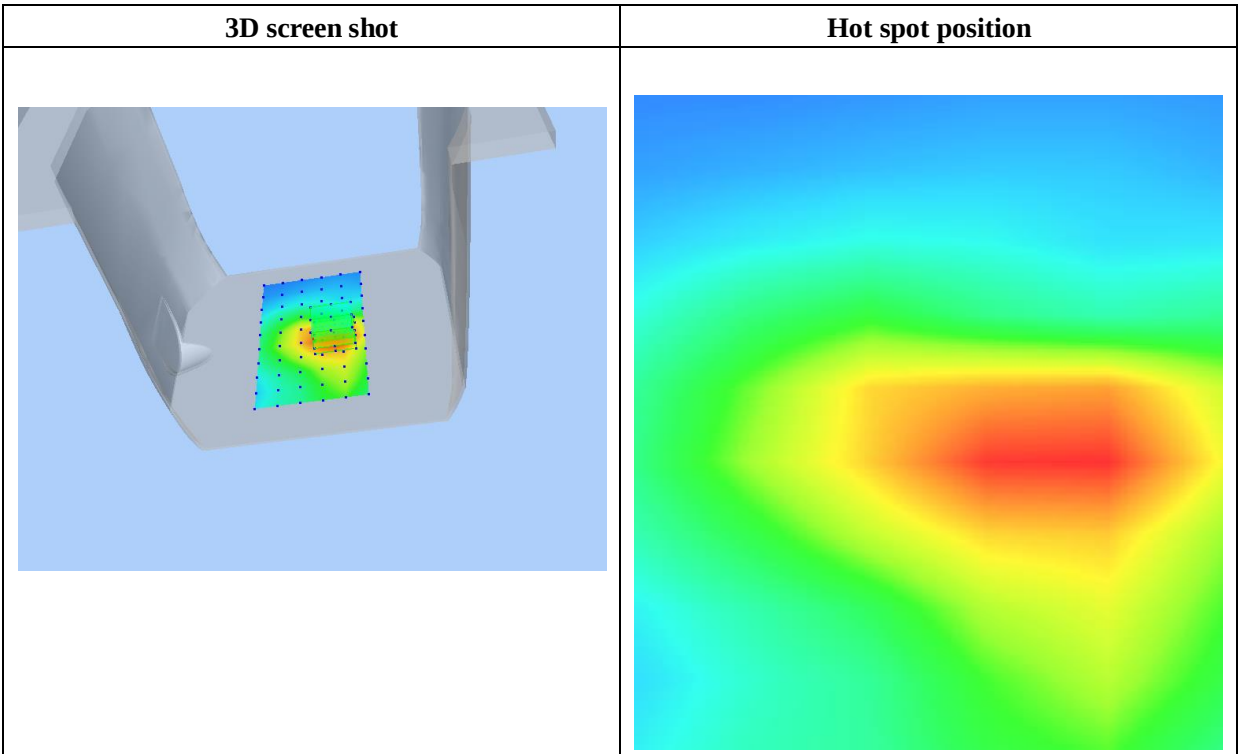
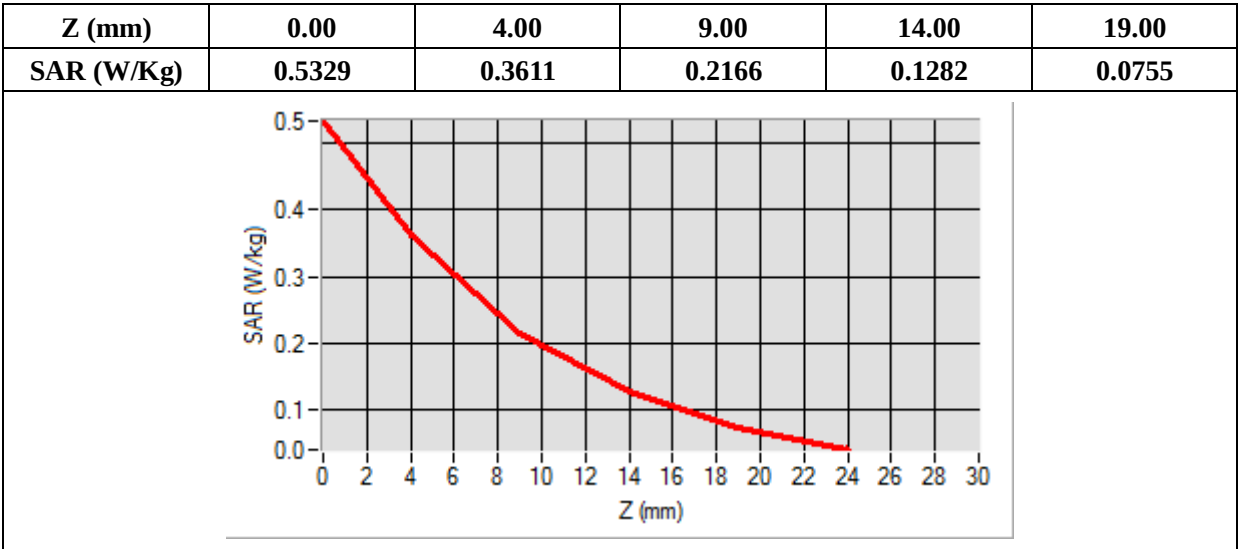
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	39.570296
Conductivity (S/m)	1.403845
Power Variation (%)	0.700000
Ambient Temperature	22.3
Liquid Temperature	22.3



Maximum location: X=18.00, Y=-7.00

SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.200060
SAR 1g (W/Kg)	0.338520



MEASUREMENT 18/33

Type: Phone measurement (Complete)

Date of measurement: 2021-05-08

Measurement duration: 11 minutes 48 seconds

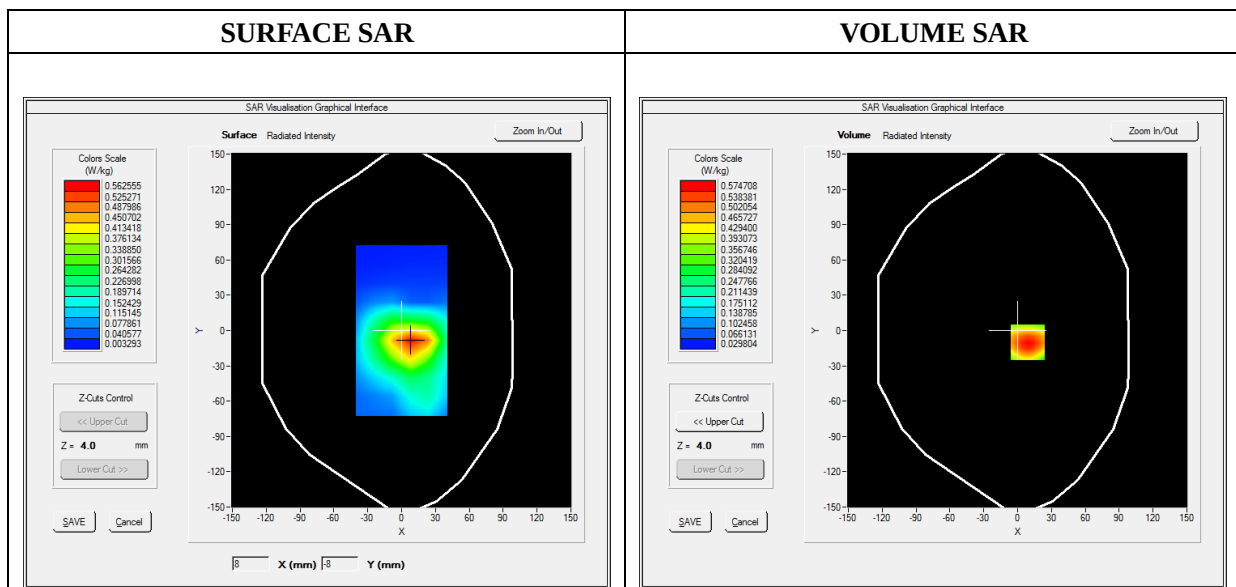
E-field Probe: SN 09/13 EP168; ConvF: 6.35; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Front
Band	WCDMA1900_RMC
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

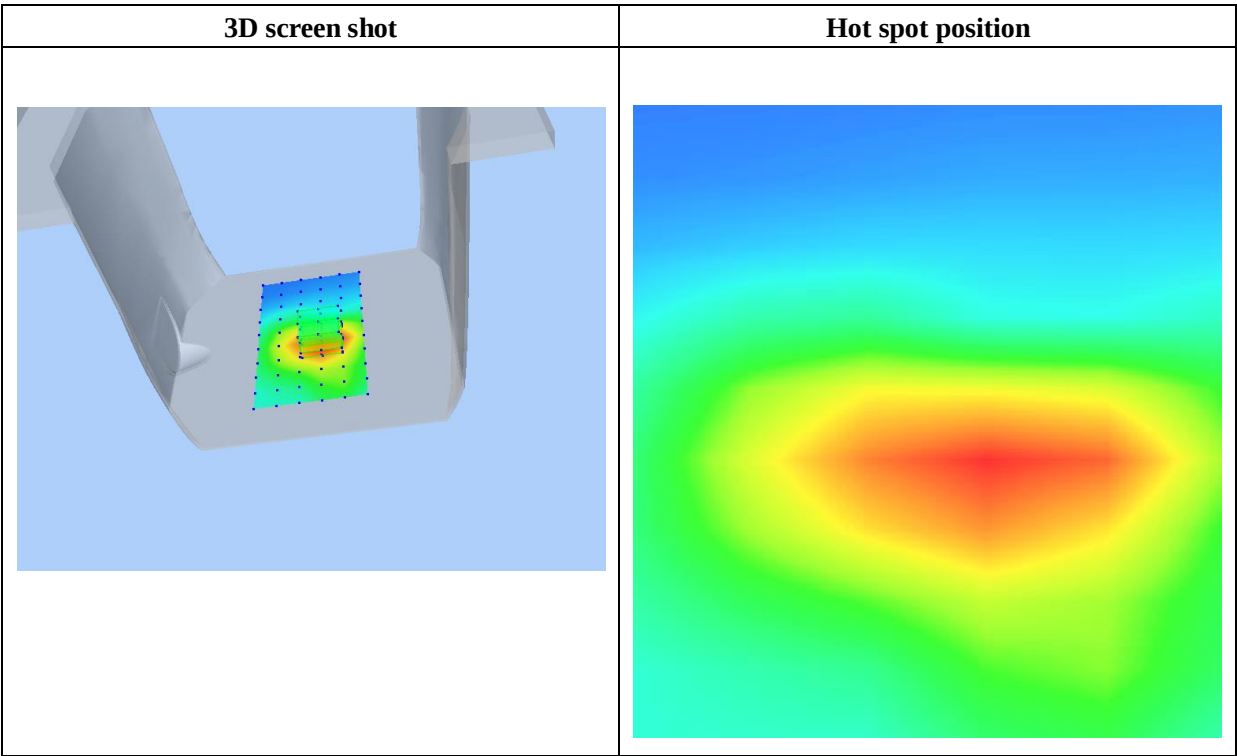
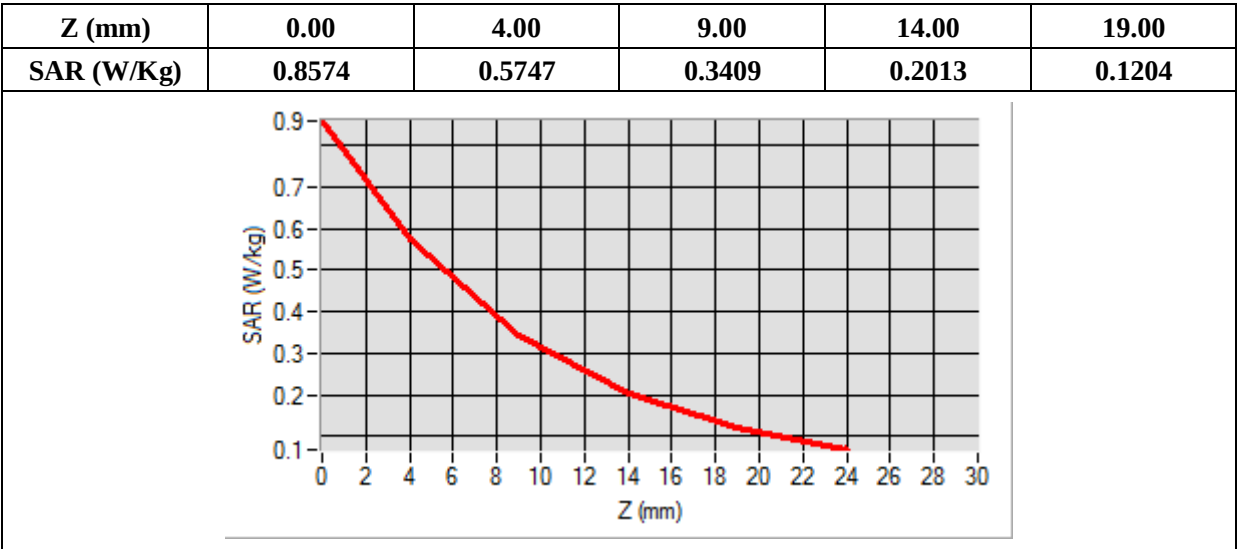
Frequency (MHz)	1907.600000
Relative Permittivity (real part)	39.570296
Conductivity (S/m)	1.403845
Power Variation (%)	-1.040000
Ambient Temperature	22.3
Liquid Temperature	22.3



Maximum location: X=9.00, Y=-10.00

SAR Peak: 0.86 W/kg

SAR 10g (W/Kg)	0.317413
SAR 1g (W/Kg)	0.539797



MEASUREMENT 19/34

Type: Phone measurement (Complete)

Date of measurement: 2021-05-06

Measurement duration: 12 minutes 3 seconds

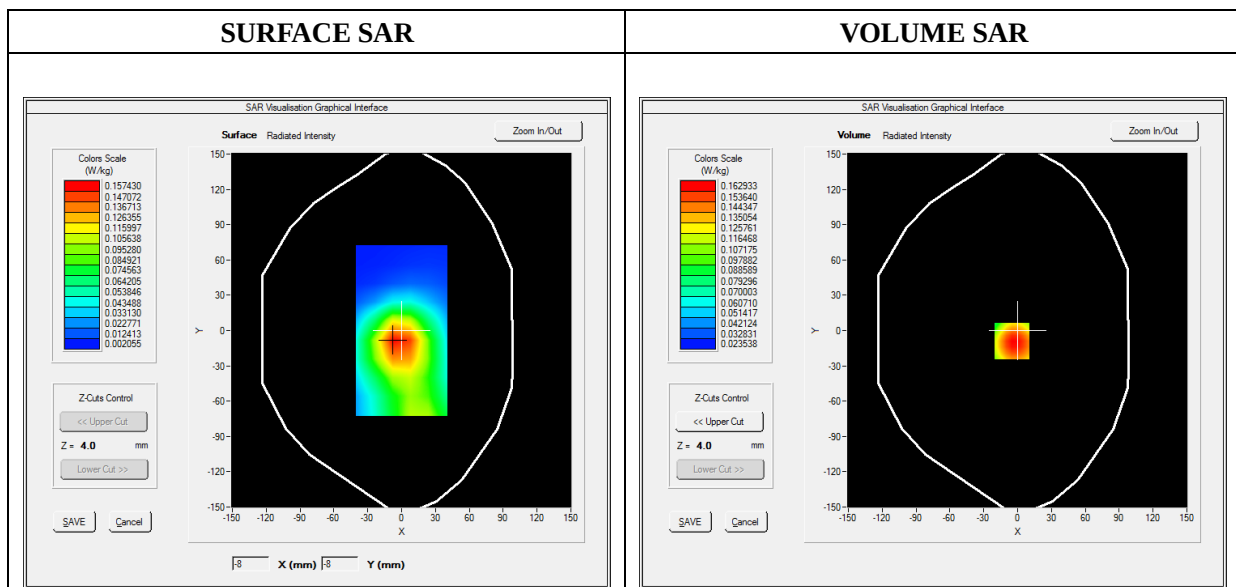
E-field Probe: SN 09/13 EP168; ConvF: 6.93; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA850_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

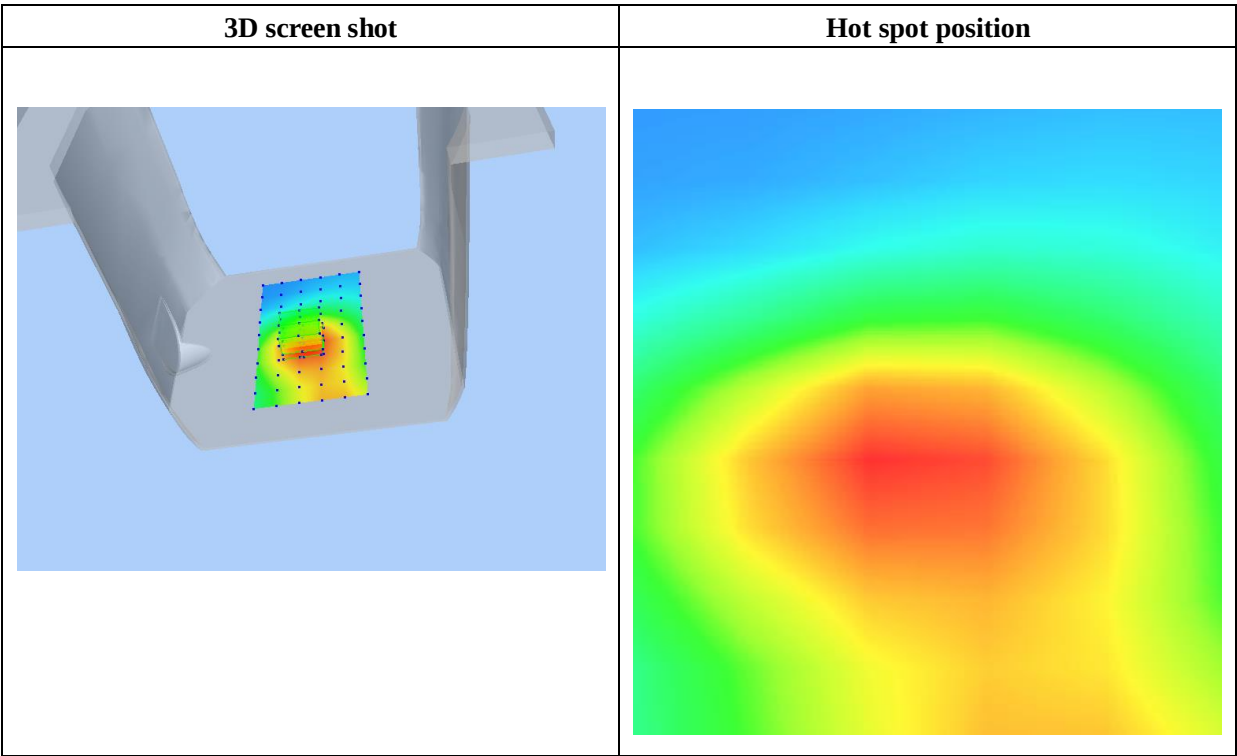
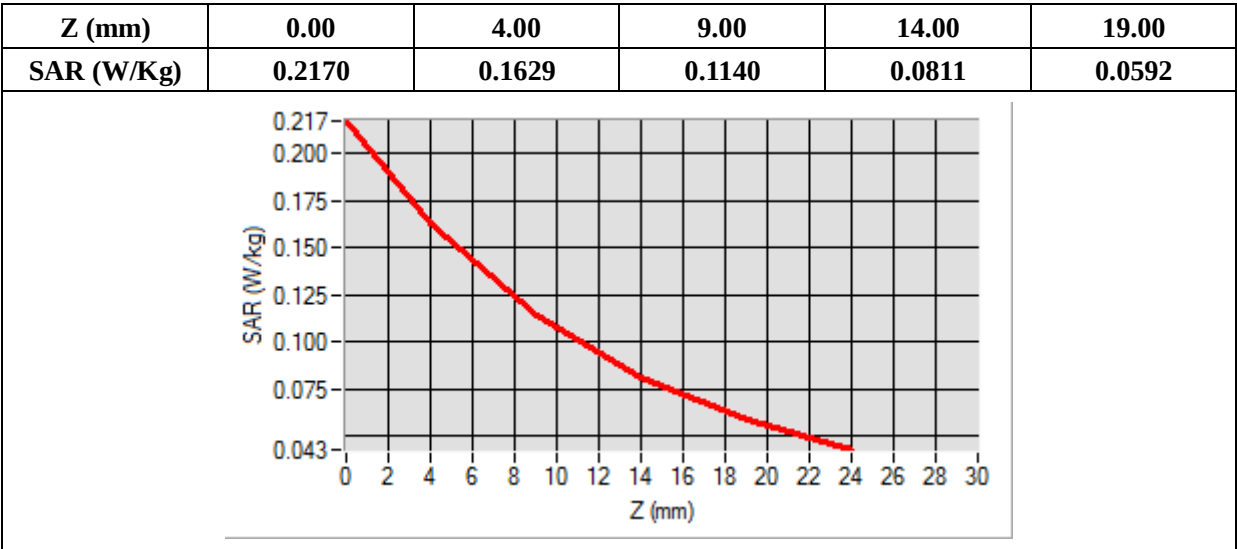
Frequency (MHz)	826.400000
Relative Permittivity (real part)	42.781453
Conductivity (S/m)	0.911085
Power Variation (%)	-1.340000
Ambient Temperature	22.1
Liquid Temperature	22.1



Maximum location: X=-5.00, Y=-9.00

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.106993
SAR 1g (W/Kg)	0.155963



MEASUREMENT 20/35

Type: Phone measurement (Complete)

Date of measurement: 2021-05-06

Measurement duration: 12 minutes 3 seconds

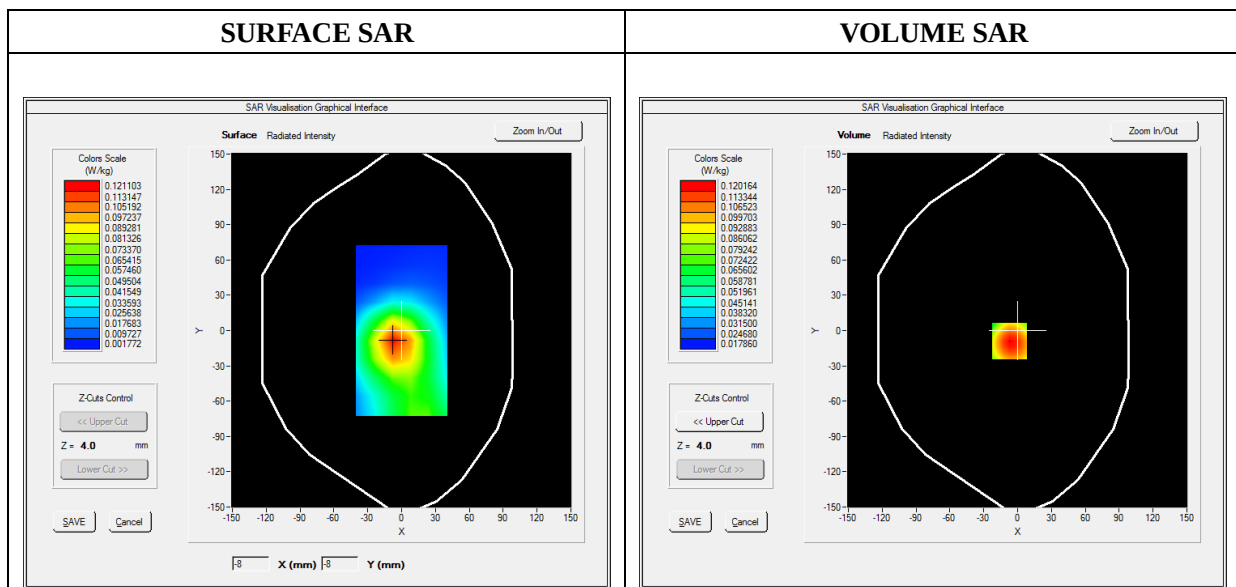
E-field Probe: SN 09/13 EP168; ConvF: 6.93; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

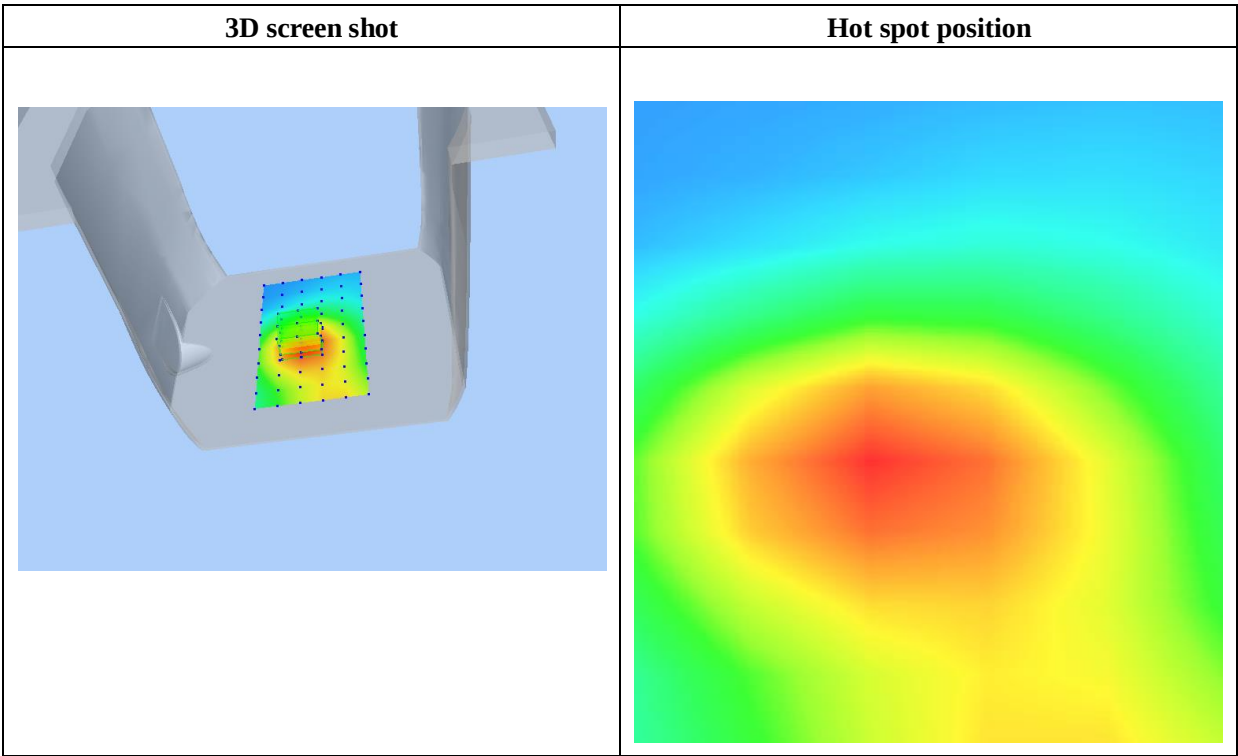
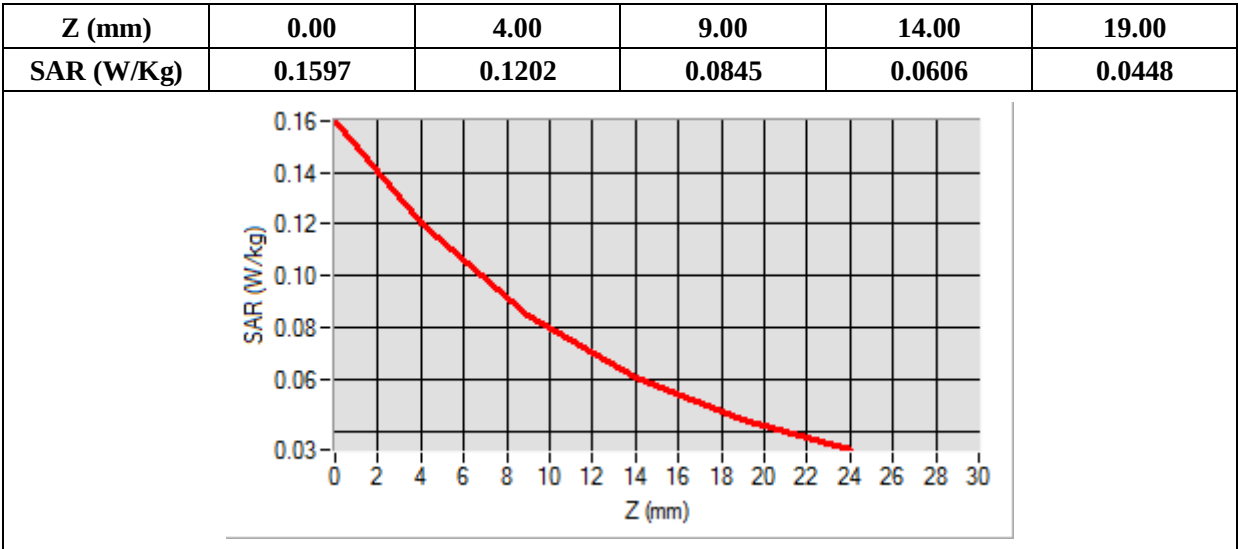
Frequency (MHz)	836.500000
Relative Permittivity (real part)	42.702834
Conductivity (S/m)	0.918612
Power Variation (%)	-0.710000
Ambient Temperature	22.1
Liquid Temperature	22.1



Maximum location: X=-7.00, Y=-9.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.078806
SAR 1g (W/Kg)	0.114467



MEASUREMENT 21

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

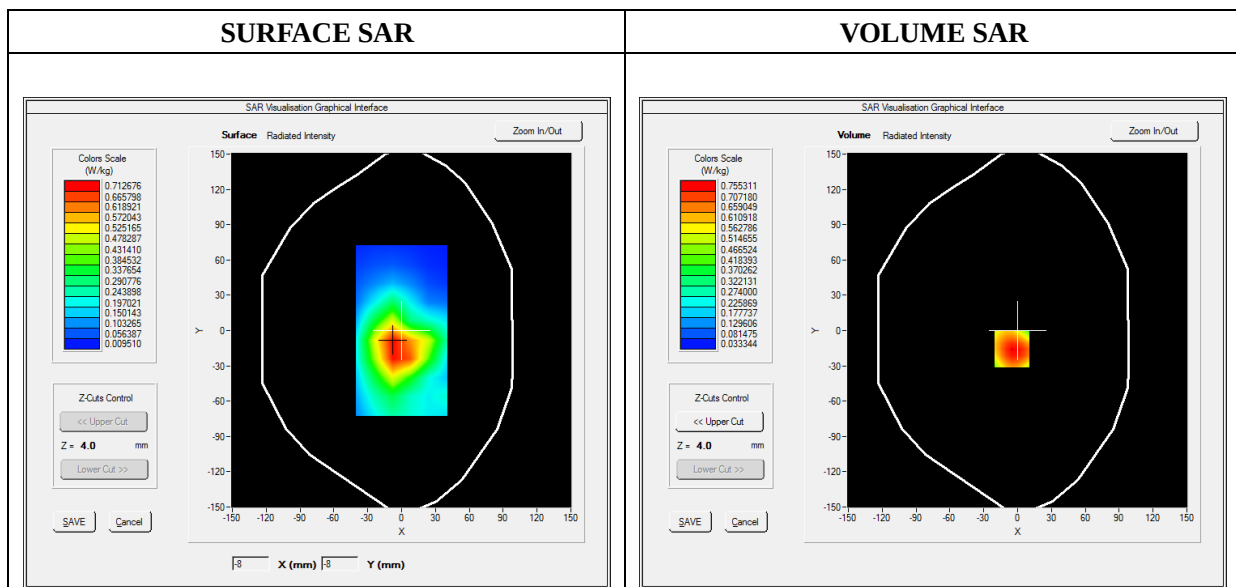
E-field Probe: SN 09/13 EP168; ConvF: 5.37; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 7
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

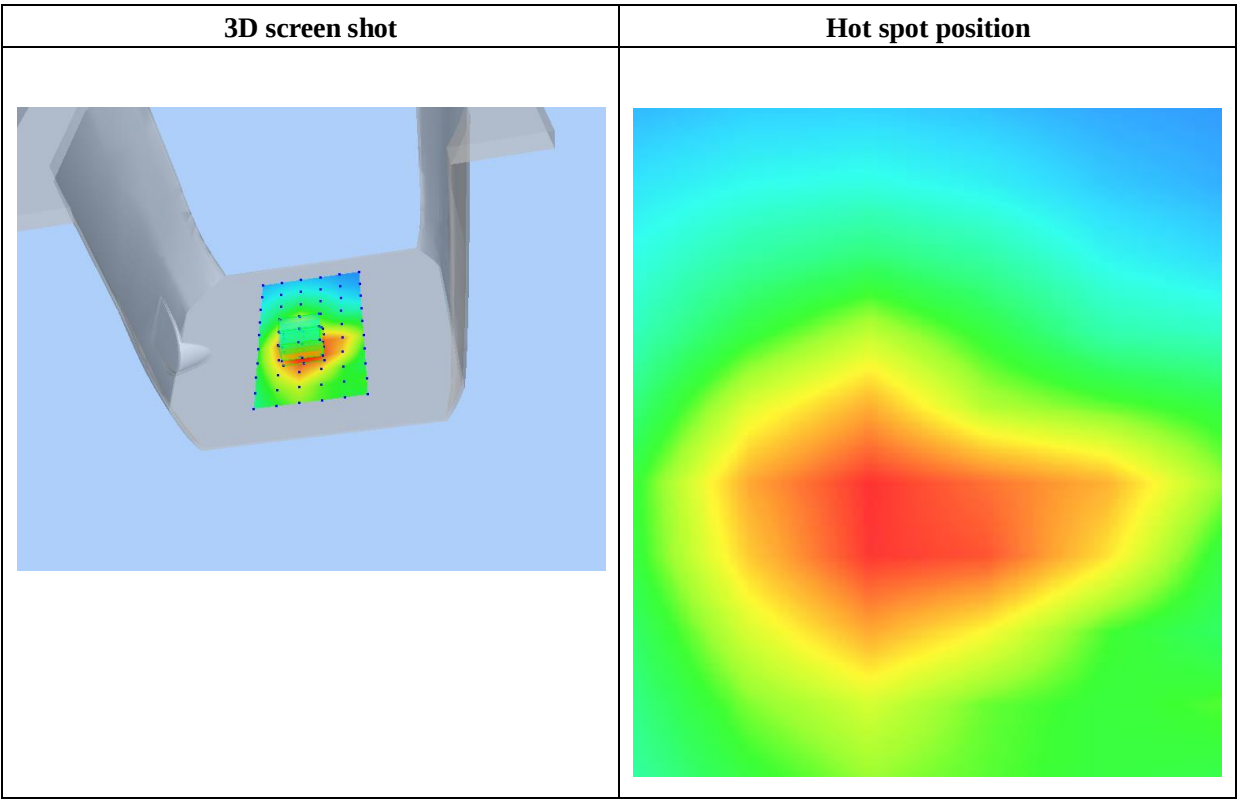
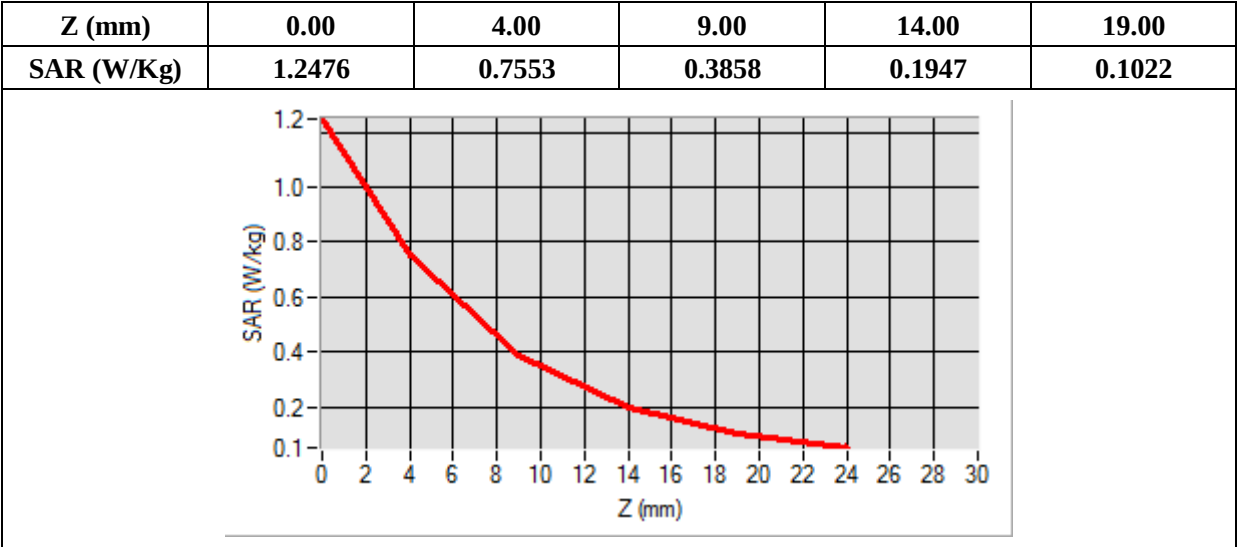
Frequency (MHz)	2510.000000
Relative Permittivity (real part)	39.481257
Conductivity (S/m)	1.926332
Power Variation (%)	0.590000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=-5.00, Y=-16.00

SAR Peak: 1.25 W/kg

SAR 10g (W/Kg)	0.399684
SAR 1g (W/Kg)	0.719361



MEASUREMENT 22

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

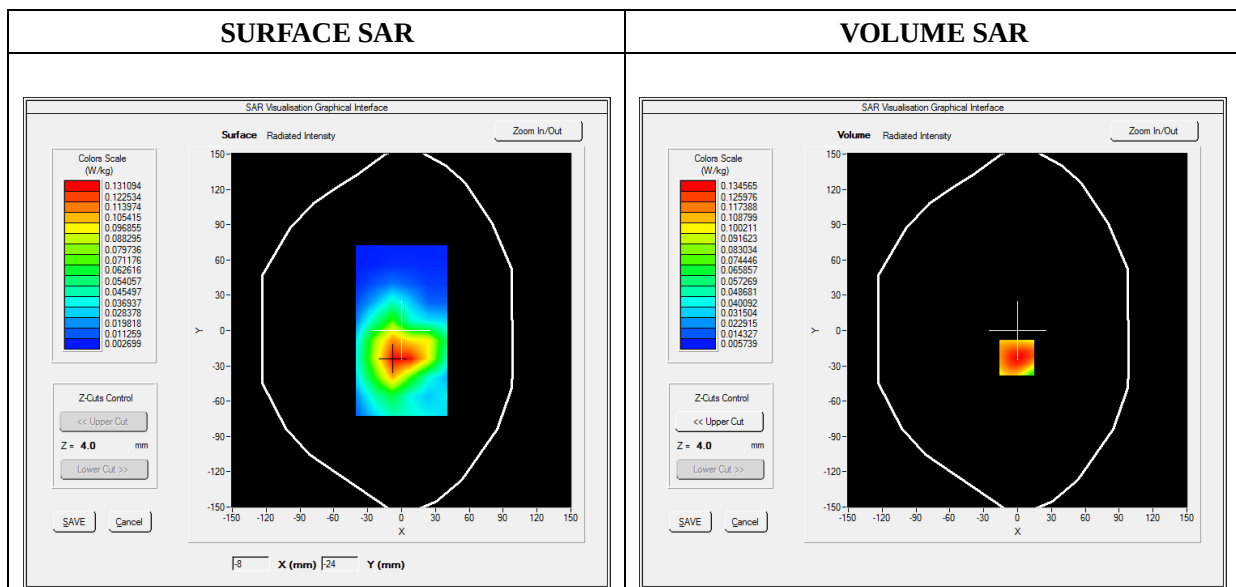
E-field Probe: SN 09/13 EP168; ConvF: 5.37; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 38
Channels	QPSK, 20MHz, 1RB,High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

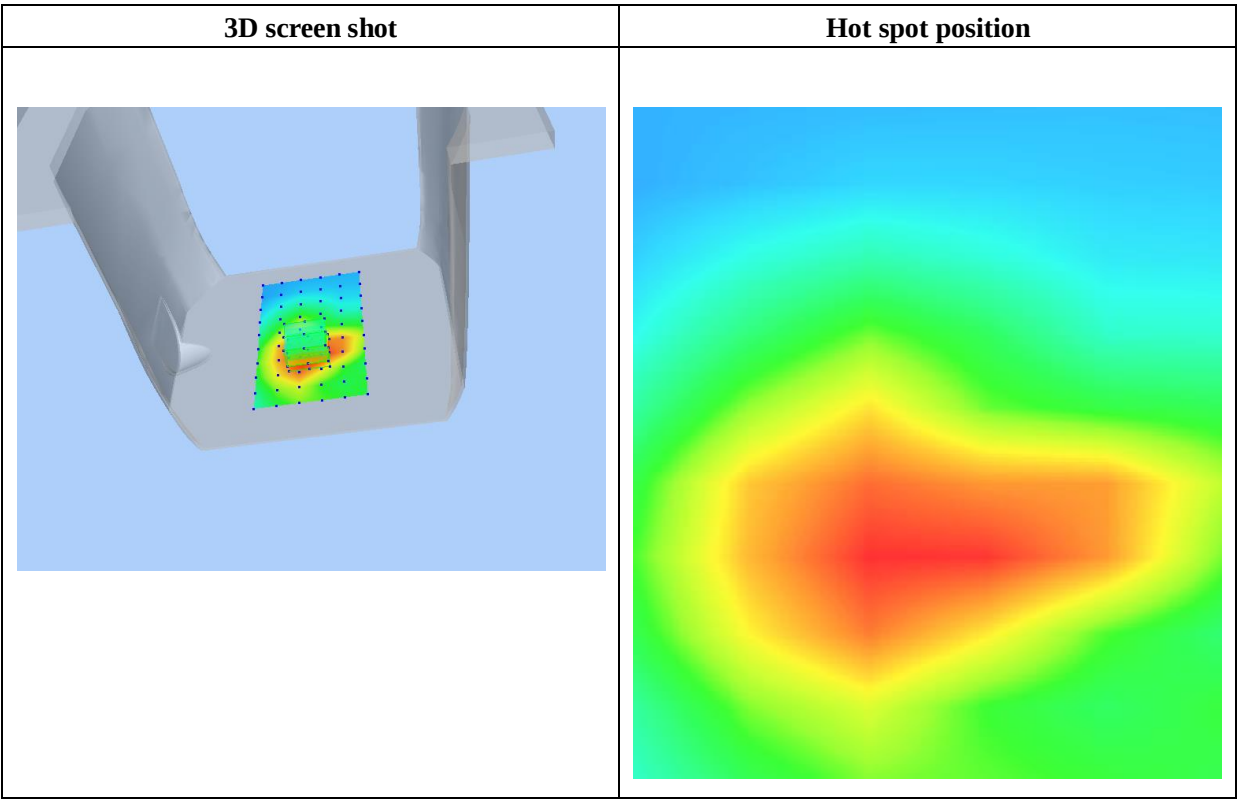
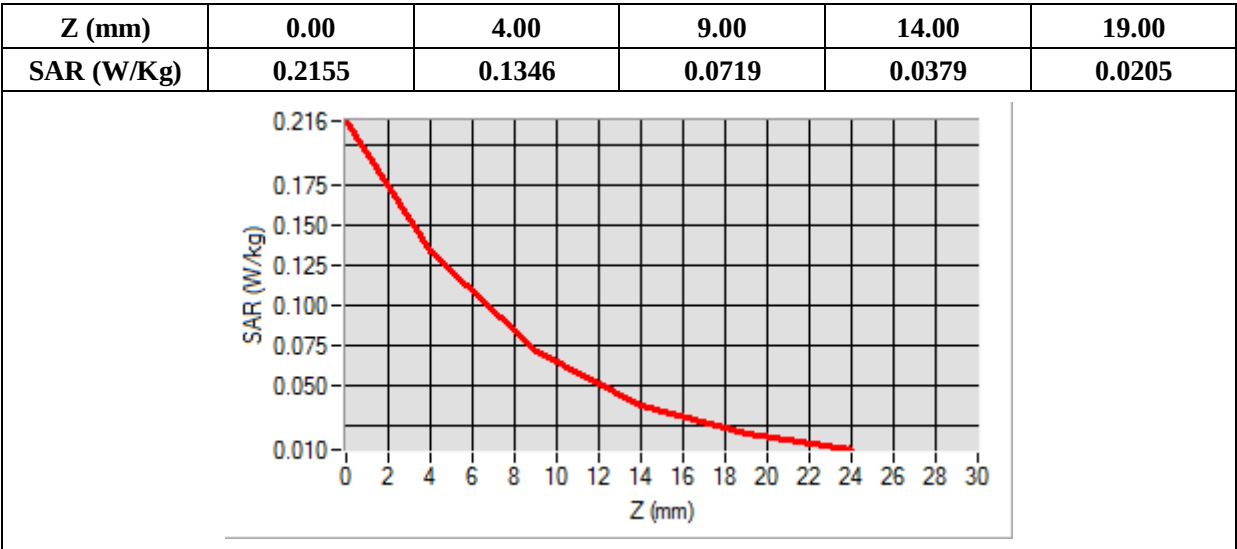
Frequency (MHz)	2610.000000
Relative Permittivity (real part)	39.218356
Conductivity (S/m)	1.990324
Power Variation (%)	-0.920000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=-1.00, Y=-23.00

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.073145
SAR 1g (W/Kg)	0.130362



MEASUREMENT 23

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

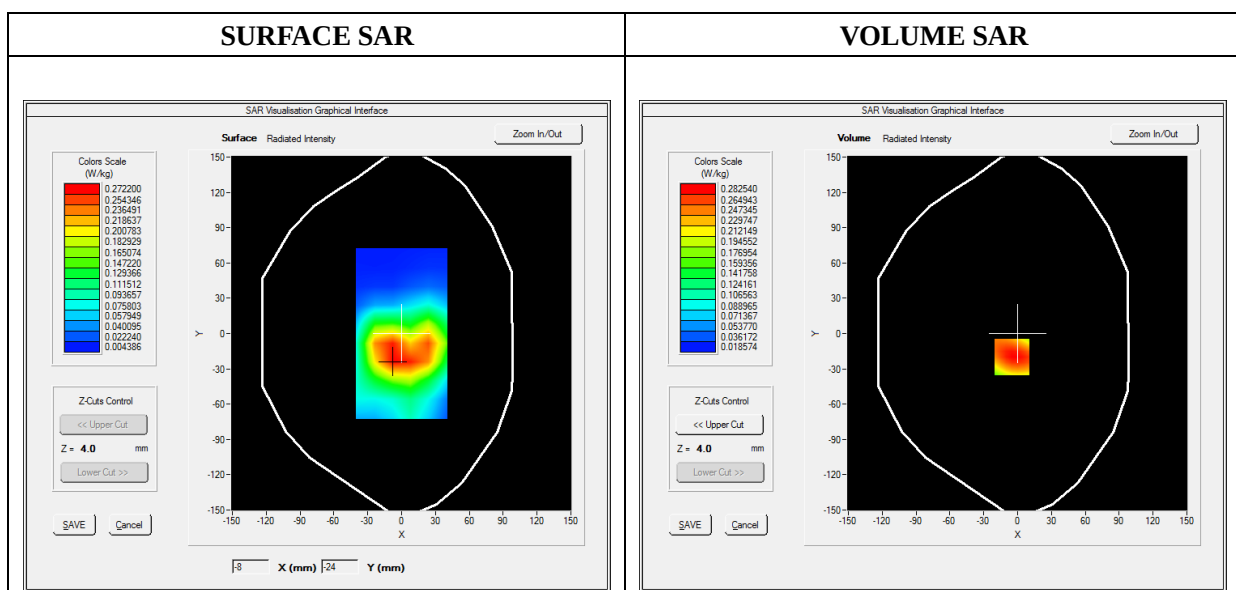
E-field Probe: SN 09/13 EP168; ConvF: 5.64; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 40 a
Channels	QPSK, 10MHz, 1RB,Middle
Signal	Duty Cycle 1:1

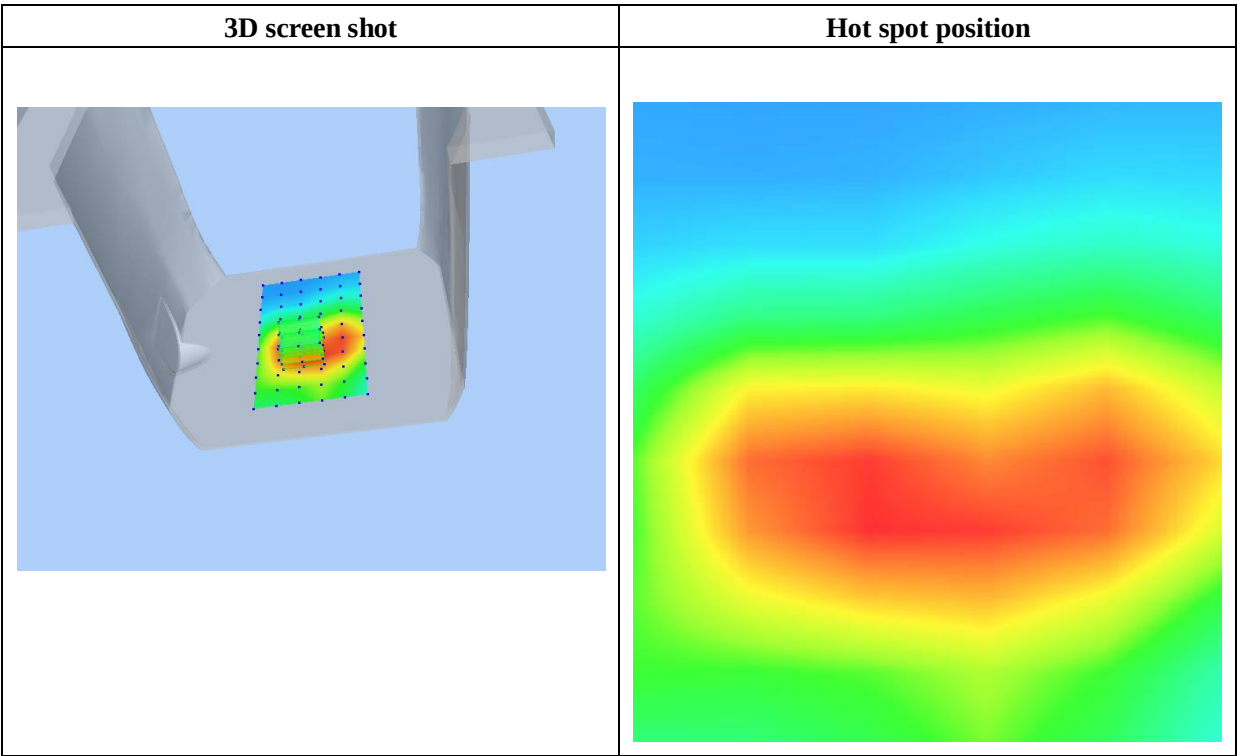
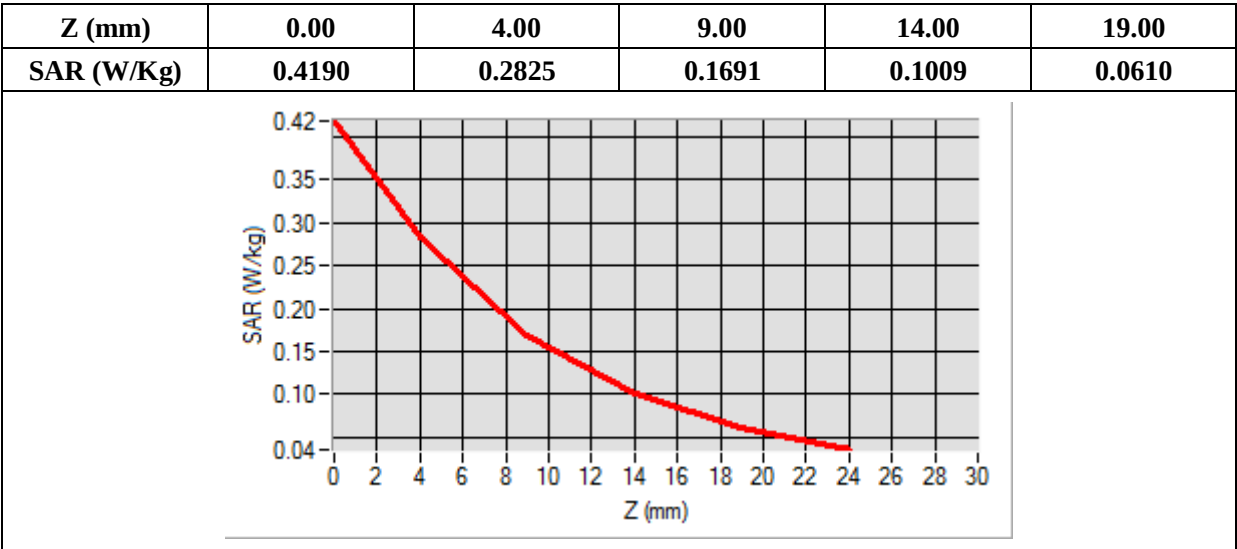
B. SAR Measurement Results

Frequency (MHz)	2310.000000
Relative Permittivity (real part)	40.382660
Conductivity (S/m)	1.730236
Power Variation (%)	-0.620000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=-5.00, Y=-20.00
SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.162042
SAR 1g (W/Kg)	0.269473



MEASUREMENT 24

Type: Phone measurement (Complete)

Date of measurement: 2021-04-30

Measurement duration: 12 minutes 3 seconds

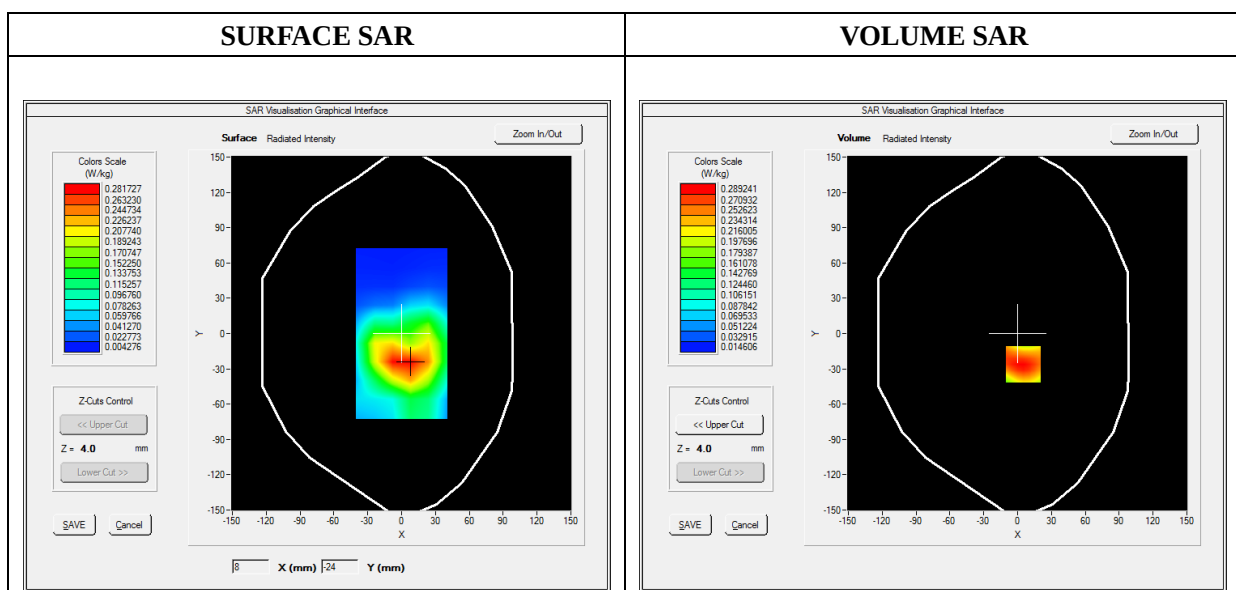
E-field Probe: SN 09/13 EP168; ConvF: 5.64; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 40 b
Channels	QPSK, 10MHz, 1RB,Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

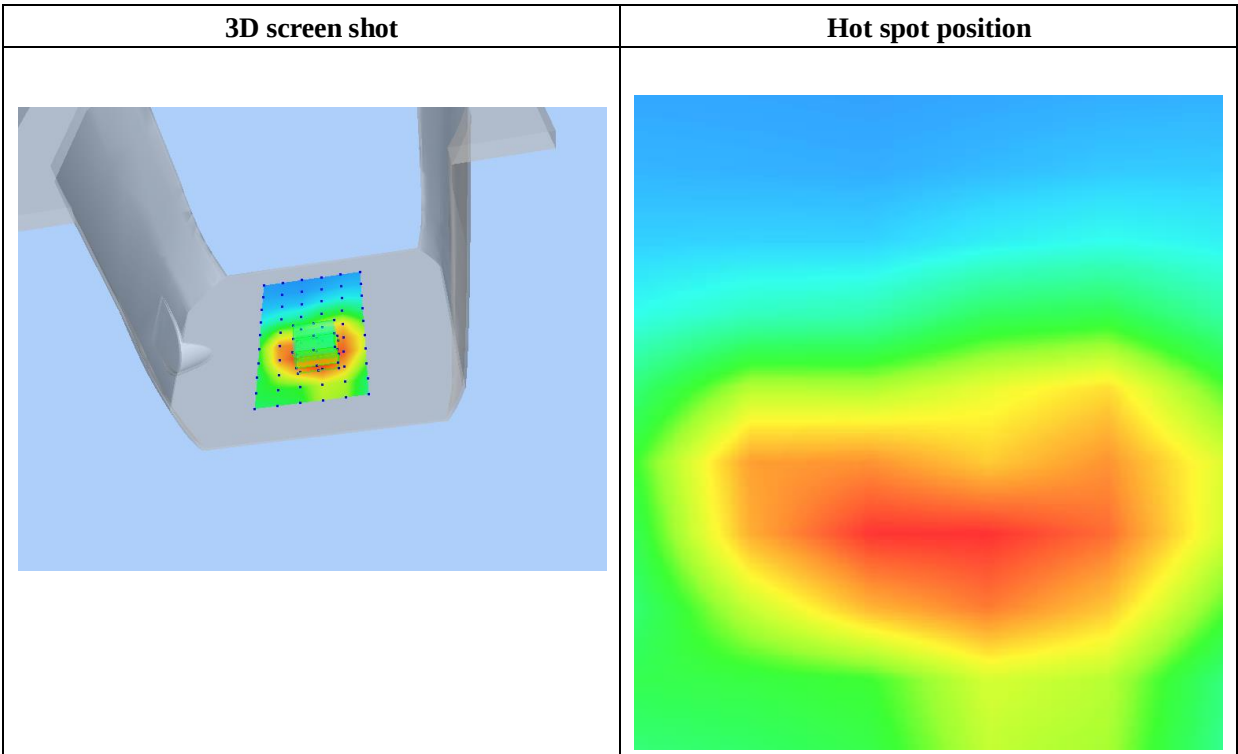
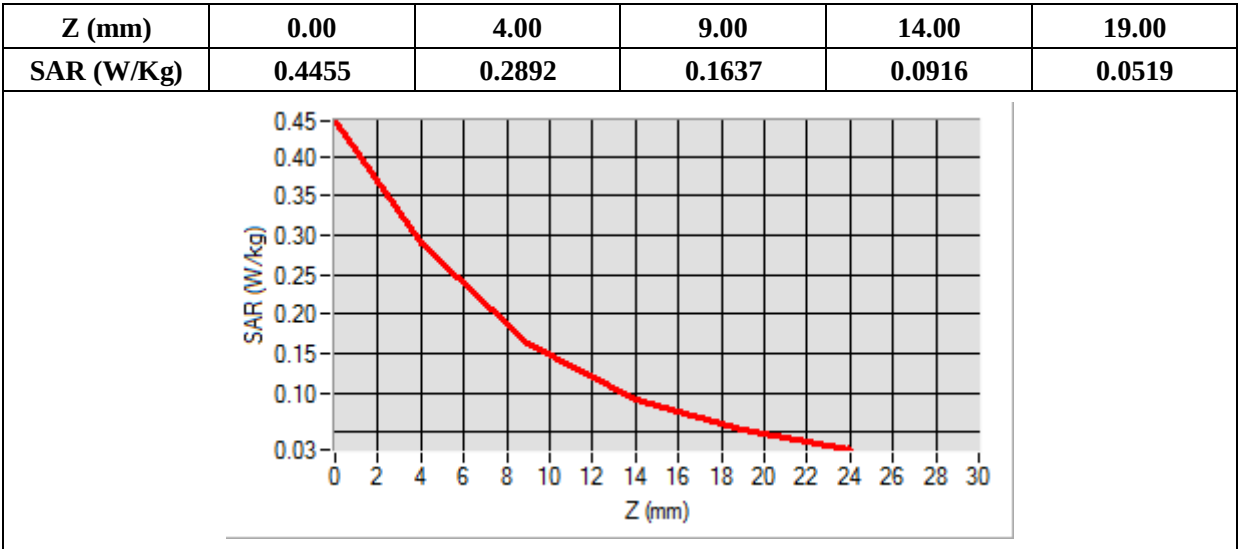
Frequency (MHz)	2355.000000
Relative Permittivity (real part)	40.521374
Conductivity (S/m)	1.750889
Power Variation (%)	-0.840000
Ambient Temperature	21.9
Liquid Temperature	21.9



Maximum location: X=5.00, Y=-26.00

SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.159799
SAR 1g (W/Kg)	0.273887



MEASUREMENT 25

Type: Phone measurement (Complete)
Date of measurement: 2021-04-30
Measurement duration: 12 minutes 3 seconds
E-field Probe: SN 09/13 EP168; ConvF: 5.37; Calibrated: 2020-05-22

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 41
Channels	QPSK, 20MHz, 1RB,Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2593.000000
Relative Permittivity (real part)	39.218356
Conductivity (S/m)	1.990324
Power Variation (%)	-0.080000
Ambient Temperature	21.9
Liquid Temperature	21.9

