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)**			
	QPSK 10MHz 1RB	Back Side	849.0	22.80	23.0	1.047	0.186	0.195
30.	QPSK 10MHz 1RB	Front Side	849.0	22.80	23.0	1.047	0.19	**0.199**
	QPSK 10MHz 1RB	Left side	849.0	22.80	23.0	1.047	0.048	0.050
	QPSK 10MHz 1RB	Bottom side	849.0	22.80	23.0	1.047	0.146	0.153
	QPSK 10MHz 50%RB	Back Side	849.0	21.62	22.0	1.091	0.149	0.163
	QPSK 10MHz 50%RB	Front Side	849.0	21.62	22.0	1.091	0.142	0.155
	QPSK 10MHz 50%RB	Left side	849.0	21.62	22.0	1.091	0.037	0.040
	QPSK 10MHz 50%RB	Bottom side	849.0	21.62	22.0	1.091	0.114	0.124

LTE Band 7–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)**			
	QPSK 20MHz 1RB	Back Side	2510	22.68	23.0	1.076	0.334	0.360
	QPSK 20MHz 1RB	Front Side	2510	22.68	23.0	1.076	0.302	0.325
	QPSK 20MHz 1RB	Left side	2510	22.68	23.0	1.076	0.163	0.175
31.	QPSK 20MHz 1RB	Bottom side	2510	22.68	23.0	1.076	0.45	**0.484**
	QPSK 20MHz 50%RB	Back Side	2510	21.37	21.50	1.030	0.257	0.265
	QPSK 20MHz 50%RB	Front Side	2510	21.37	21.50	1.030	0.233	0.240
	QPSK 20MHz 50%RB	Left side	2510	21.37	21.50	1.030	0.124	0.128
	QPSK 20MHz 50%RB	Bottom side	2510	21.37	21.50	1.030	0.346	0.357

LTE Band 17–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)**			
32.	QPSK 10MHz 1RB	Back Side	710	21.80	21.5	0.933	0.374	**0.349**
	QPSK 10MHz 1RB	Front Side	710	21.80	21.5	0.933	0.348	0.325
	QPSK 10MHz 1RB	Left side	710	21.80	21.5	0.933	0.099	0.092
	QPSK 10MHz 1RB	Bottom side	710	21.80	21.5	0.933	0.214	0.200
	QPSK 10MHz 50%RB	Back Side	710	21.17	21.5	1.079	0.313	0.338
	QPSK 10MHz 50%RB	Front Side	710	21.17	21.5	1.079	0.293	0.316
	QPSK 10MHz 50%RB	Left side	710	21.17	21.5	1.079	0.082	0.088
	QPSK 10MHz 50%RB	Bottom side	710	21.17	21.5	1.079	0.188	0.203

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**					
33.	802.11b	Back Side	11	2462	15.65	16.0	1.084	0.121	**0.131**
	802.11b	Front Side	11	2462	15.65	16.0	1.084	0.094	0.102
	802.11b	Right side	11	2462	15.65	16.0	1.084	0.04	0.043

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

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:

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 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
6.5	4.47	5/10	2.480	7.5	0.172	0.086

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	**0.514**	0.220	0.734
Right Tilted	GSM	0.170	0.118	0.288
Left Cheek	GSM	0.282	**0.224**	0.506
Left Tilted	GSM	0.160	0.145	0.305
Right Cheek	WCDMA	**0.520**	0.220	0.740
Right Tilted	WCDMA	0.137	0.118	0.255
Left Cheek	WCDMA	0.333	**0.224**	0.557
Left Tilted	WCDMA	0.163	0.145	0.308
Right Cheek	LTE	**0.767**	0.220	**0.987**
Right Tilted	LTE	0.225	0.118	0.343
Left Cheek	LTE	0.535	**0.224**	0.759
Left Tilted	LTE	0.149	0.145	0.294

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	**Band**	**Scaled SAR (W/kg)**	**Scaled SAR (W/kg)**	
Right Cheek	GSM	**0.514**	0.172	0.686
Right Tilted	GSM	0.170	0.172	0.342
Left Cheek	GSM	0.282	0.172	0.454
Left Tilted	GSM	0.160	0.172	0.332
Right Cheek	WCDMA	**0.520**	0.172	0.692
Right Tilted	WCDMA	0.137	0.172	0.309
Left Cheek	WCDMA	0.333	0.172	0.505
Left Tilted	WCDMA	0.163	0.172	0.335
Right Cheek	LTE	**0.767**	0.172	**0.939**
Right Tilted	LTE	0.225	0.172	0.397
Left Cheek	LTE	0.535	0.172	0.707
Left Tilted	LTE	0.149	0.172	0.321

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	**0.554**	**0.131**	**0.685**
Front	GSM	0.485	0.102	0.587
Back	WCDMA	**0.346**	**0.131**	0.477
Front	WCDMA	0.191	0.102	0.293
Back	LTE	**0.392**	**0.131**	0.523
Front	LTE	0.364	0.102	0.466

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	**Band**	**Scaled SAR (W/kg)**	**Scaled SAR (W/kg)**	
Back	GSM	**0.554**	0.172	**0.726**
Front	GSM	0.485	0.172	0.657
Back	WCDMA	**0.346**	0.172	0.518
Front	WCDMA	0.191	0.172	0.363
Back	LTE	**0.392**	0.172	0.564
Front	LTE	0.364	0.172	0.536

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	**0.501**	0.131	**0.632**
Front	GSM	0.486	0.102	0.588
Right side	GSM	/	0.043	0.043
Left side	GSM	0.151	/	0.146
Bottom side	GSM	0.380	/	0.356
Top side	GSM	0.261	/	0.223
Back	WCDMA	0.413	0.131	0.544
Front	WCDMA	0.191	0.102	0.293
Right side	WCDMA	/	0.043	0.043
Left side	WCDMA	0.223	/	0.223
Bottom side	WCDMA	0.146	/	0.146
Top side	WCDMA	0.356	/	0.356
Back	LTE	0.399	0.131	0.530
Front	LTE	0.325	0.102	0.427
Right side	LTE	/	0.043	0.043
Left side	LTE	0.231	/	0.231
Bottom side	LTE	0.484	/	0.484
Top side	LTE	0.343	/	0.343

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	**Band**	**Scaled SAR (W/kg)**	**Scaled SAR (W/kg)**	
Back	GSM	**0.501**	0.086	**0.587**
Front	GSM	0.486	0.086	0.572
Right side	GSM	/	0.086	0.086
Left side	GSM	0.151	0.086	0.237
Bottom side	GSM	0.380	0.086	0.466
Top side	GSM	0.261	0.086	0.347
Back	WCDMA	0.413	0.086	0.499
Front	WCDMA	0.191	0.086	0.277
Right side	WCDMA	/	0.086	0.086
Left side	WCDMA	0.223	0.086	0.309
Bottom side	WCDMA	0.146	0.086	0.232
Top side	WCDMA	0.356	0.086	0.442
Back	LTE	0.399	0.086	0.485
Front	LTE	0.325	0.086	0.411
Right side	LTE	/	0.086	0.086
Left side	LTE	0.231	0.086	0.317
Bottom side	LTE	0.484	0.086	0.57
Top side	LTE	0.343	0.086	0.429

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	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	∝
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	∝
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	∝
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	∝
System detection limits	E.2.5	1.0	R	√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	√3	1	1	1.73	1.73	∝
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	∝
RF ambient Conditions – Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	∝
RF ambient Conditions - Reflections	E.6.1	3.0	R	√3	1	1	1.73	1.73	∝
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	√3	1	1	1.15	1.15	∝
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	√3	1	1	0.03	0.03	∝
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5	5.0	R	√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	√3	1	1	6.94	6.94	∝
SAR scaling	E6.5	0.0	R	√3	1	1	0.0	0.0	∝
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	1	1	0.03	0.03	∝
Uncertainty in SAR correction for deviations in permittivity and conductivity	E3.2	1.9	R	√3	1	0.84	1.10	0.90	∝

Liquid conductivity - deviation from target value	E.3.2	5.00	R	√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	√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	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	∝
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	∝
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	∝
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	∝
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	∝
Modulation response	E.2.5	0	R	√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	√3	1	1	1.73	1.73	∝
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	∝
RF ambient Conditions – Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	∝
RF ambient Conditions - Reflections	E.6.1	3.0	R	√3	1	1	1.73	1.73	∝
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	√3	1	1	1.15	1.15	∝
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	√3	1	1	0.03	0.03	∝
Extrapolation, interpolation and	E.5.2	5.0	R	√3	1	1	2.89	2.89	∝

integration Algoritms for Max. SAR Evaluation									
Dipole									
Dipole axis to liquid Distance	8,E.4.2	1.00	N	√3	1	1	0.58	0.58	N–1
Input power and SAR drift measurement	8,6.6.2	12.02	R	√3	1	1	6.94	6.94	∝
Deviation of experimental dipole from numerical dipole	E.6.4	5.5	R	√3	1	1	3.20	3.20	∝
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	1	1	0.03	0.03	∝
Uncertainty in SAR correction for deviations in permittivity and conductivity	E3.2	2.0	R	√3	1	0.84	1.10	1.10	∝
Liquid conductivity - deviation from target value	E.3.2	5.00	R	√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	√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

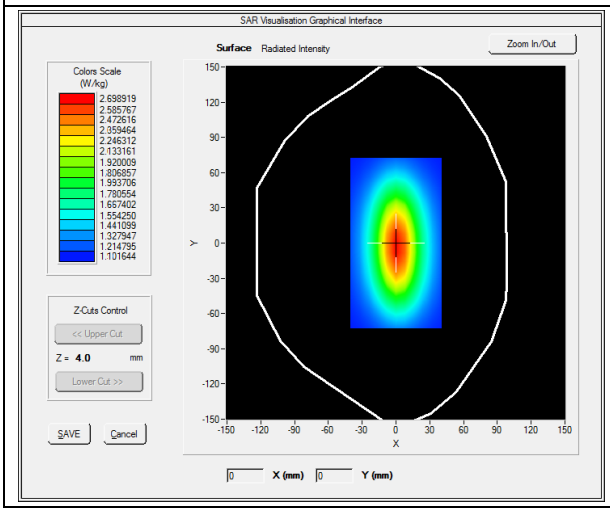
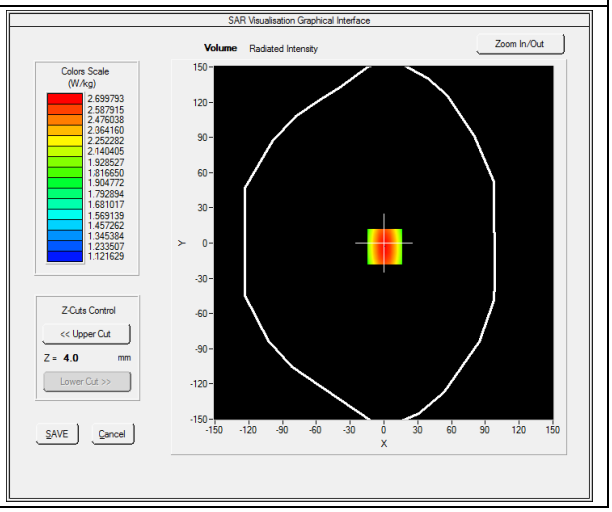
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

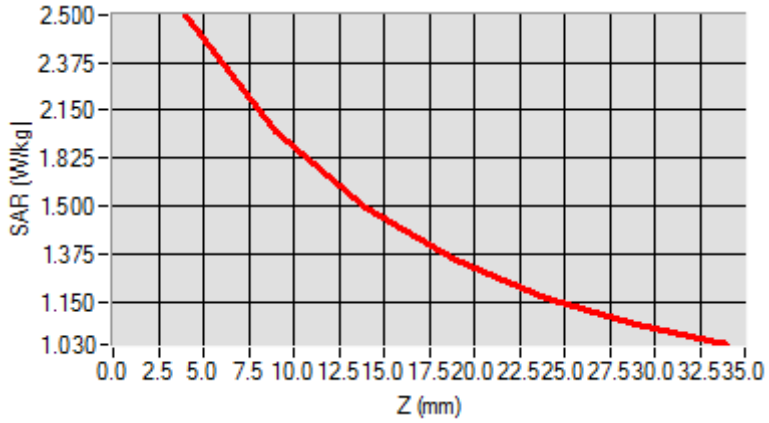
SURFACE SAR	VOLUME SAR
	

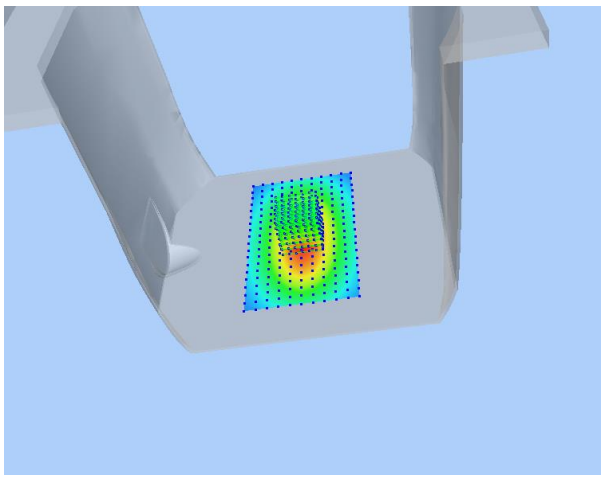
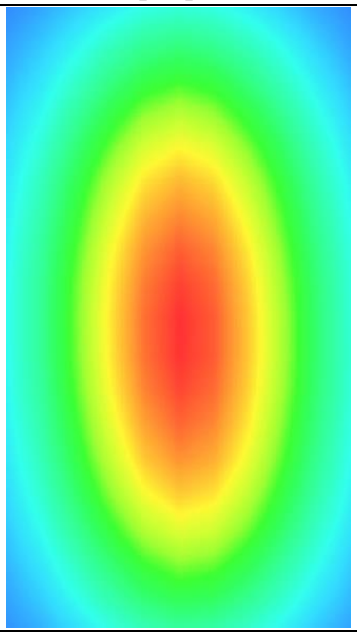
Maximum location: X=0.00, Y=0.00

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



3D screen shot	Hot spot position
	

MEASUREMENT 2

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 7 minutes 21 seconds

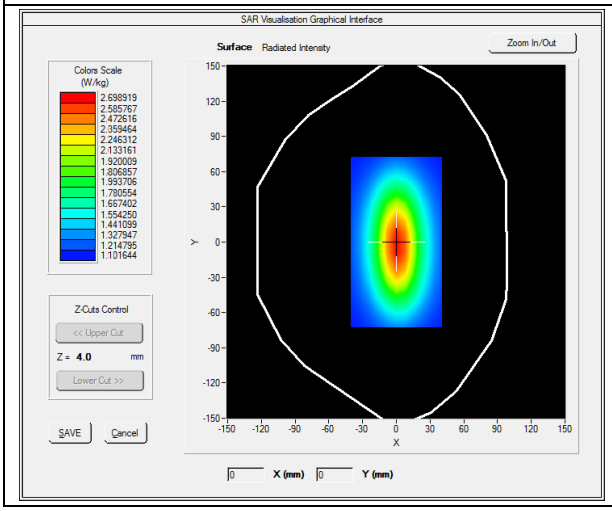
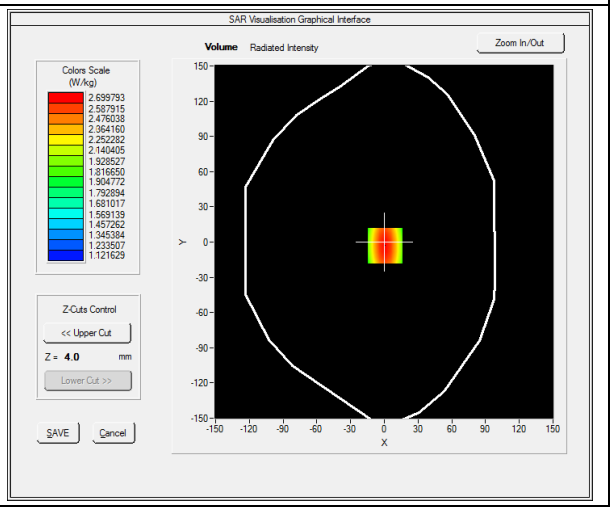
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

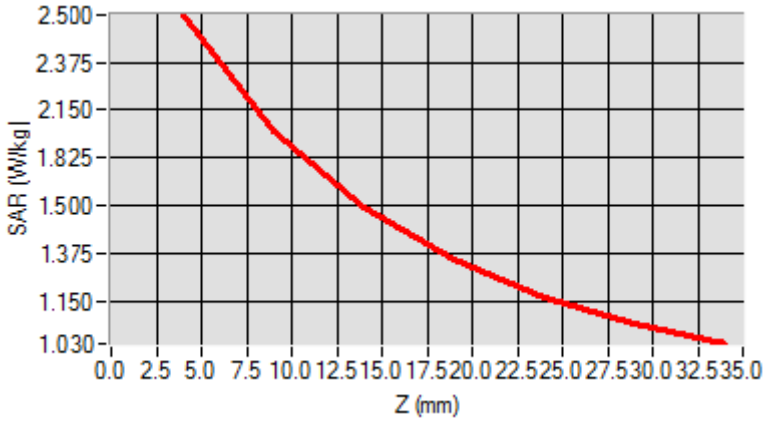
SURFACE SAR	VOLUME SAR
	

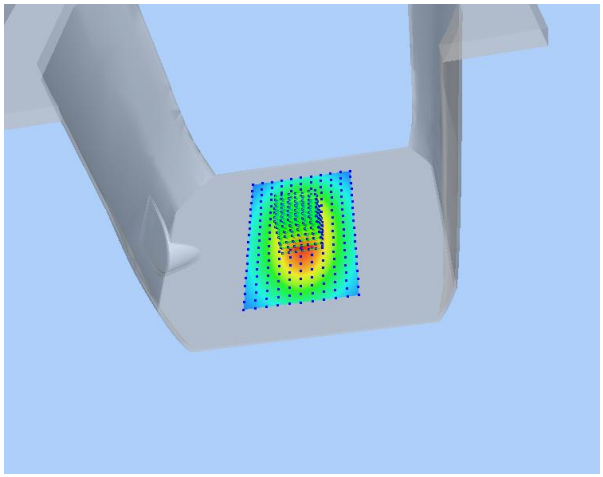
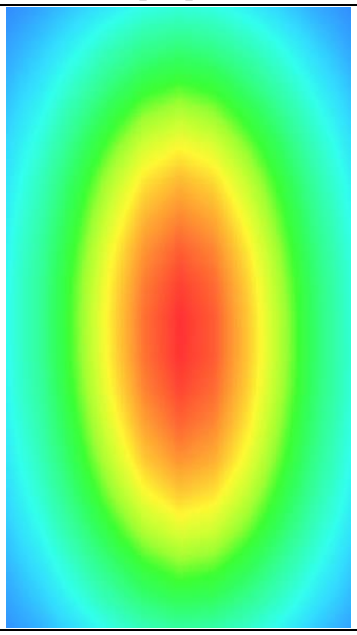
Maximum location: X=0.00, Y=0.00

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

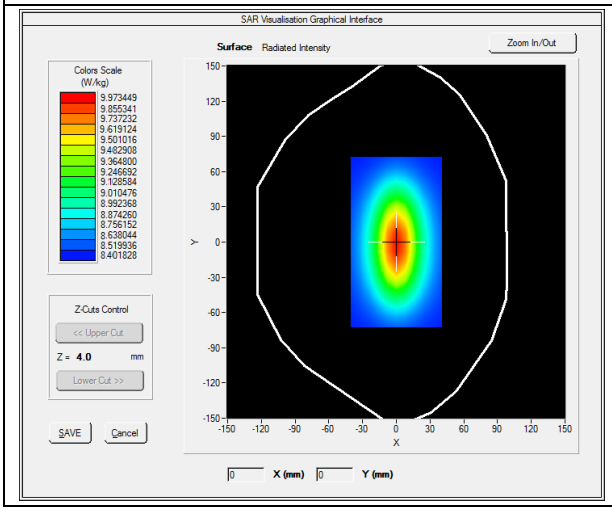
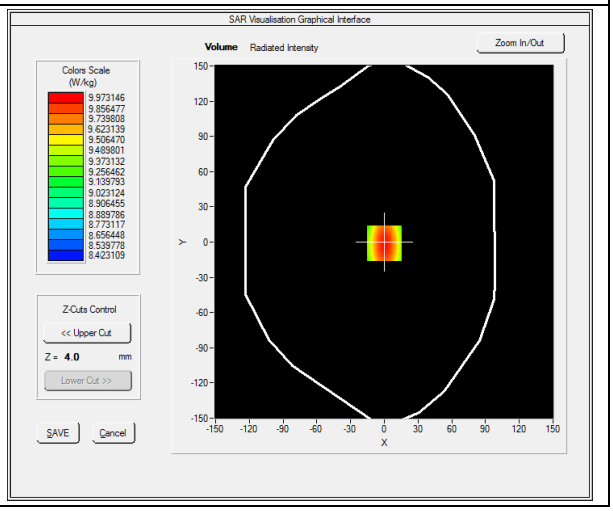
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

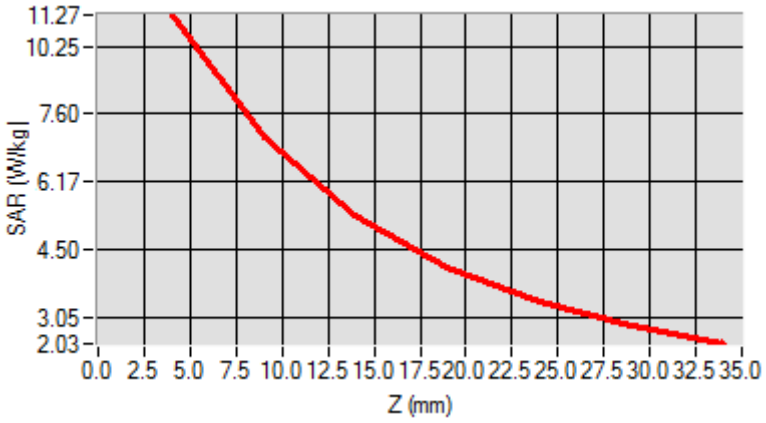
SURFACE SAR	VOLUME SAR
	

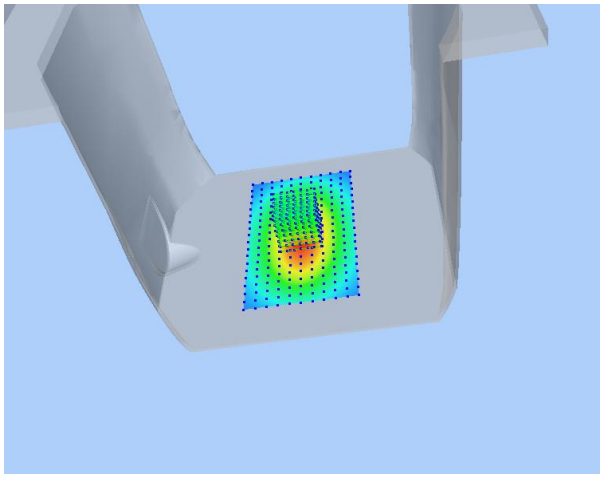
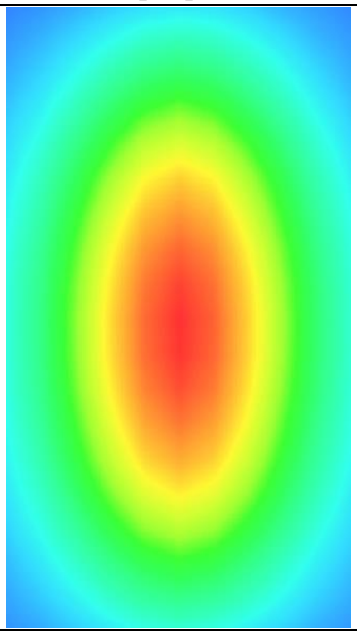
Maximum location: X=0.00, Y=0.00

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

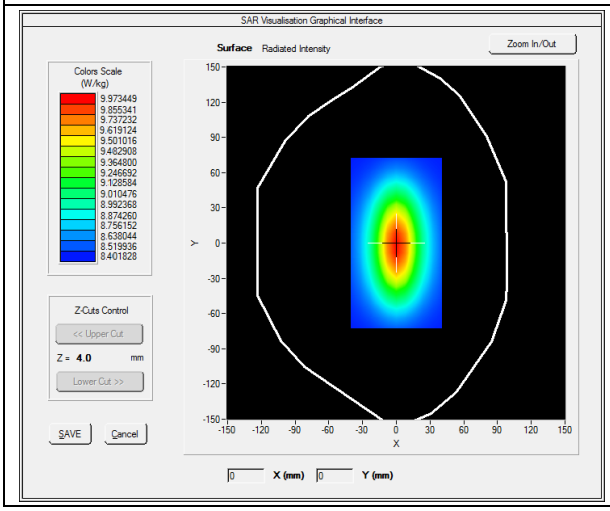
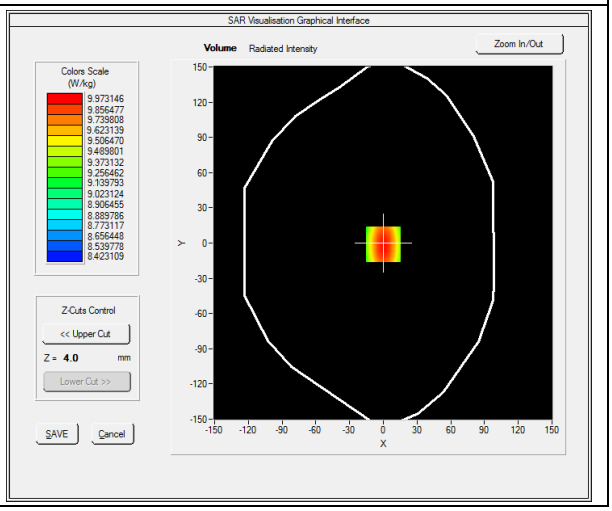
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

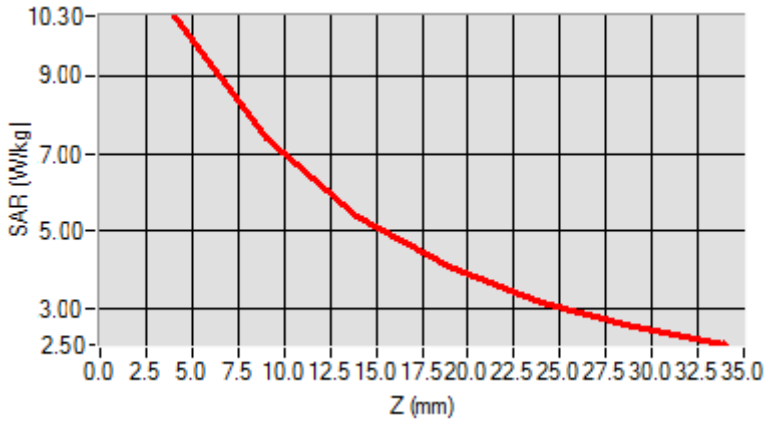
SURFACE SAR	VOLUME SAR
	

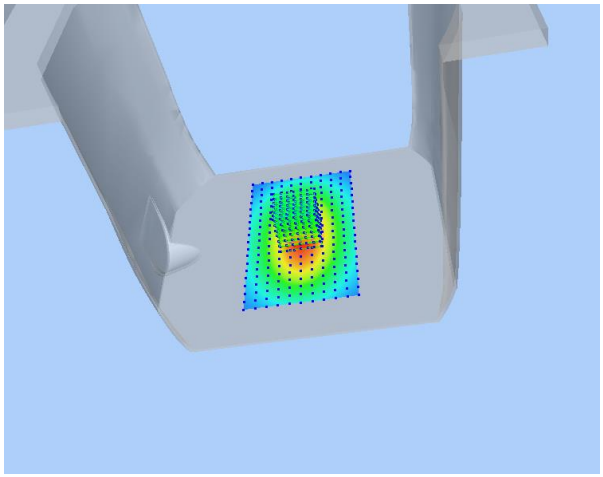
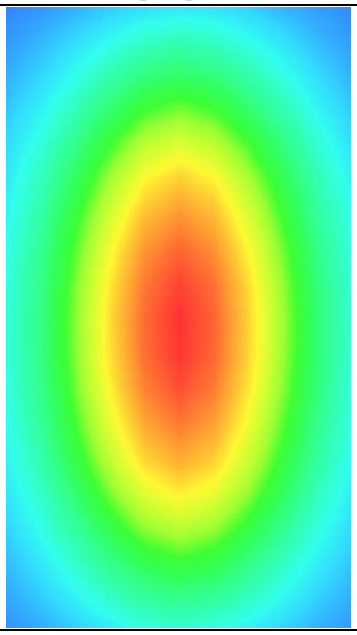
Maximum location: X=0.00, Y=0.00

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

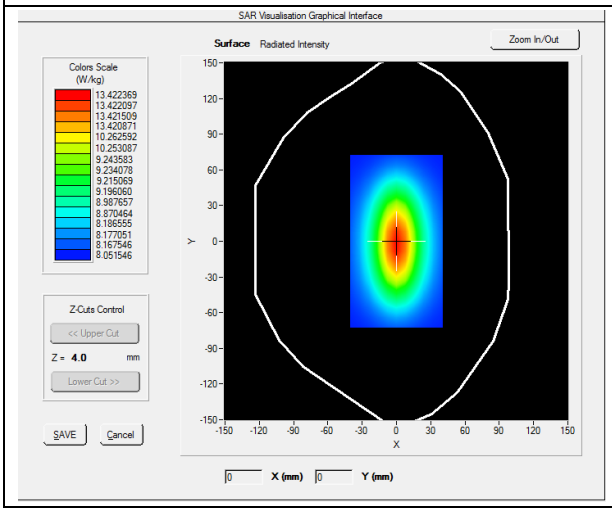
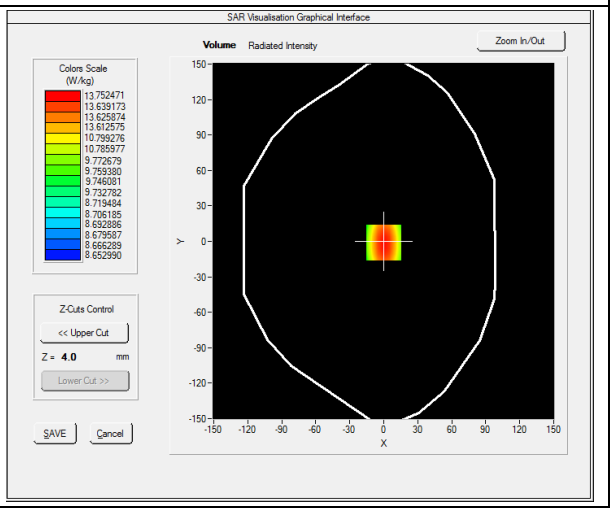
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

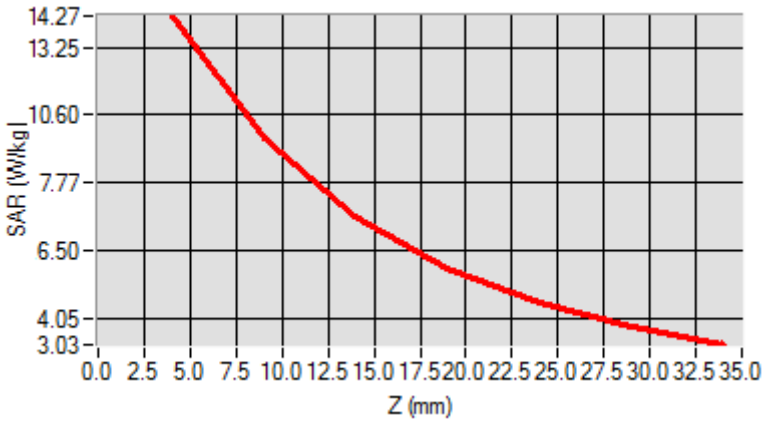
SURFACE SAR	VOLUME SAR
	

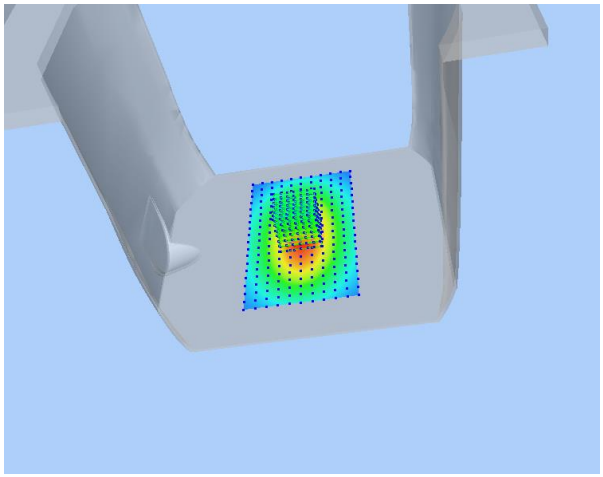
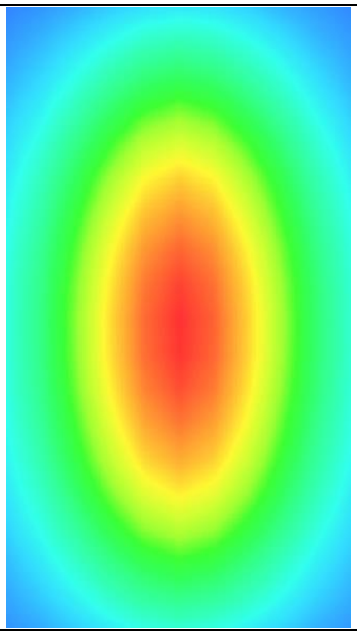
Maximum location: X=0.00, Y=0.00

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

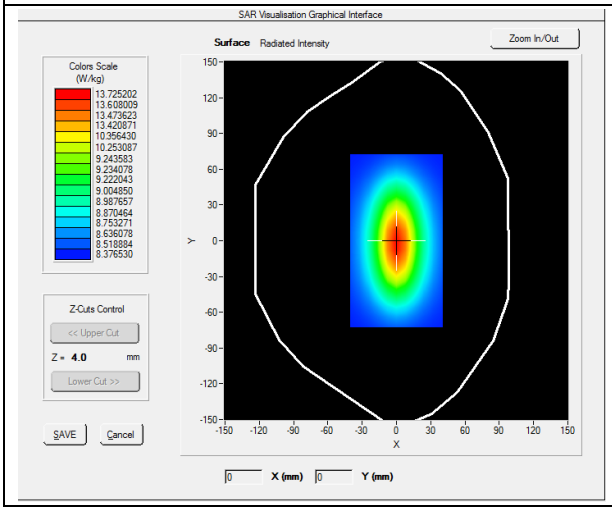
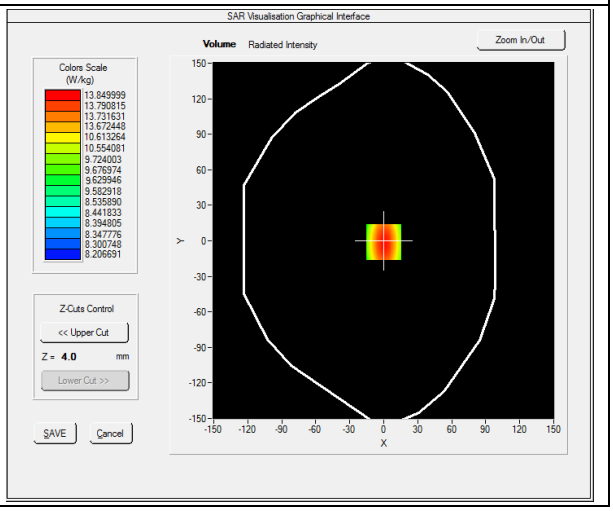
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

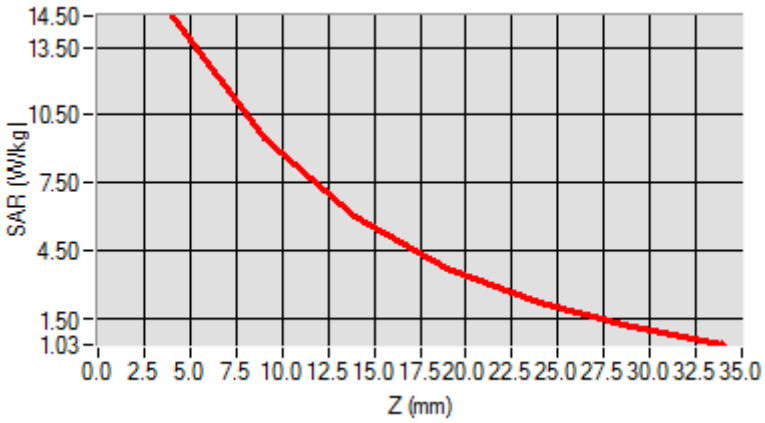
SURFACE SAR	VOLUME SAR
	

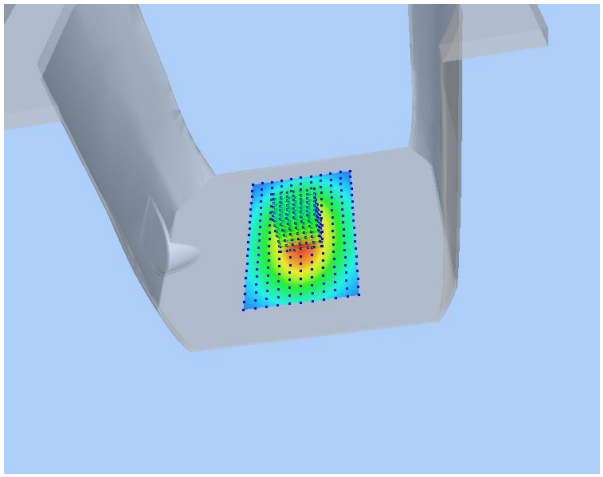
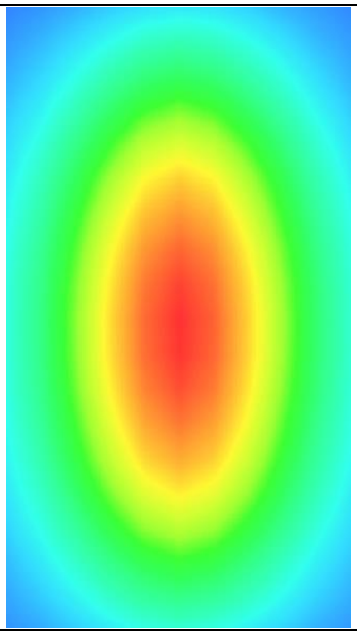
Maximum location: X=0.00, Y=0.00

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
	

Annex B. Plots of SAR Measurement

MEASUREMENT 1

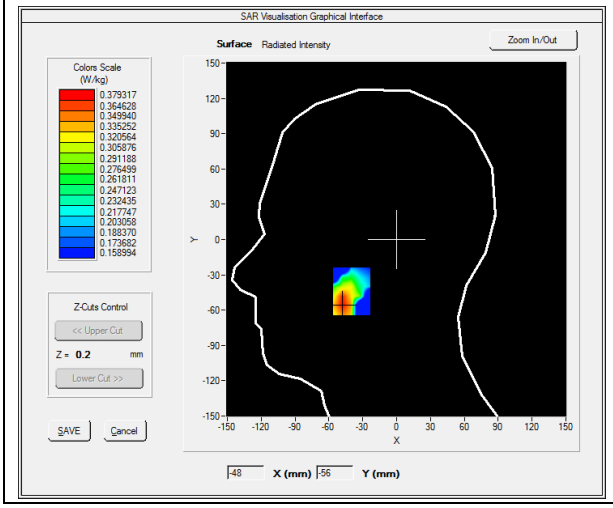
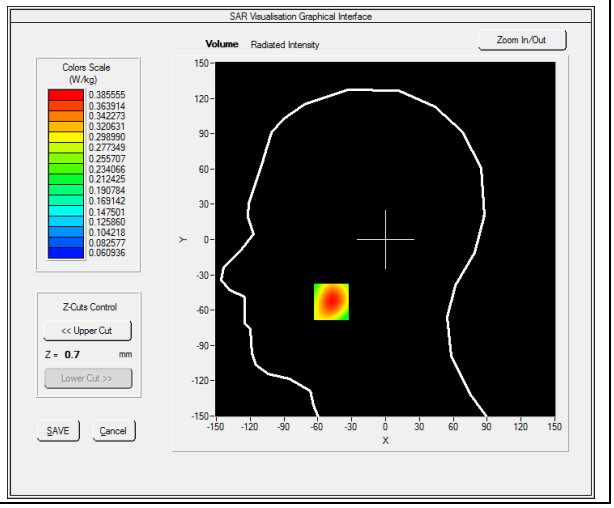
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

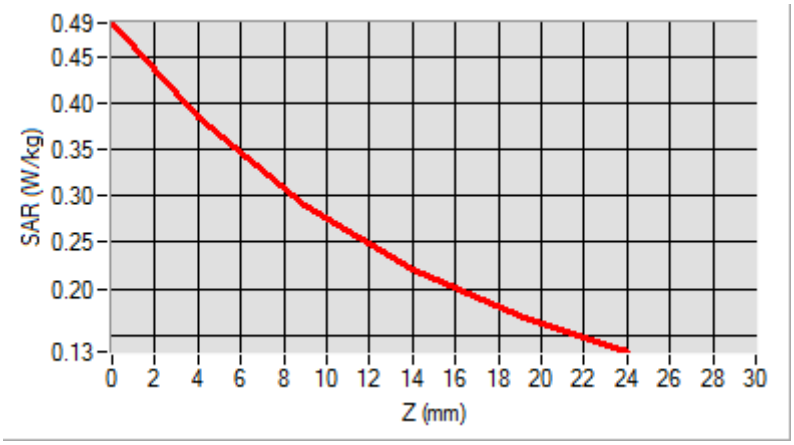
SURFACE SAR	VOLUME SAR
	

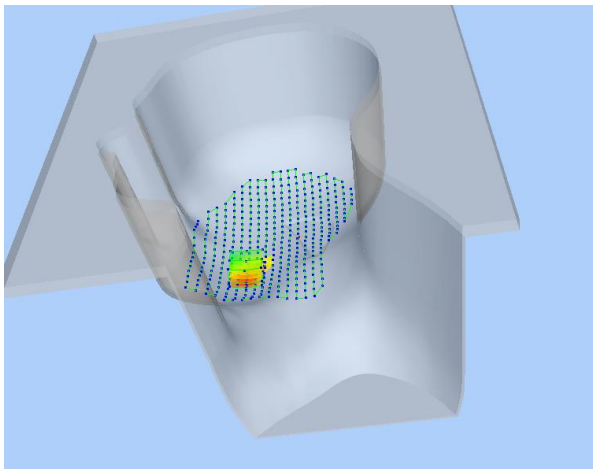
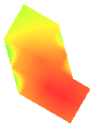
Maximum location: X=-48.00, Y=-53.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.266411
SAR 1g (W/Kg)	0.367760

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4868	0.3856	0.2892	0.2201	0.1706



3D screen shot	Hot spot position
	

MEASUREMENT 2

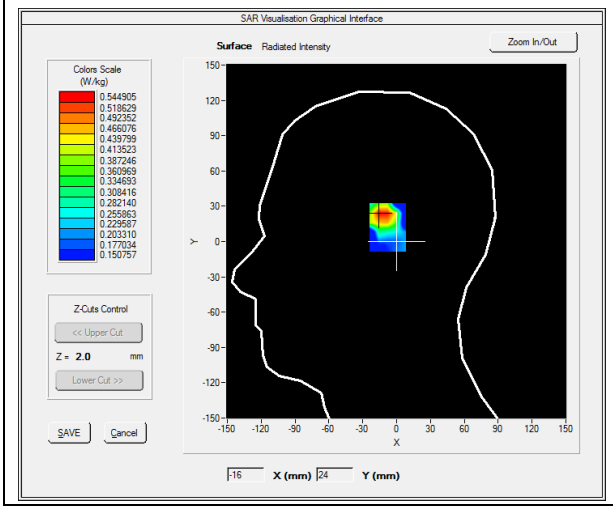
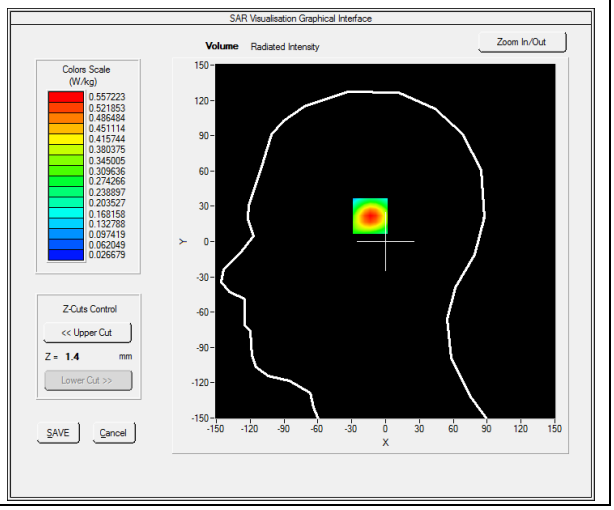
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

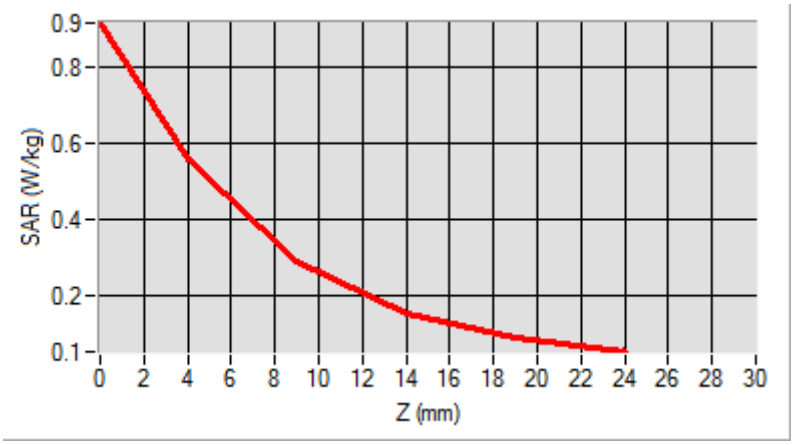
SURFACE SAR	VOLUME SAR
	

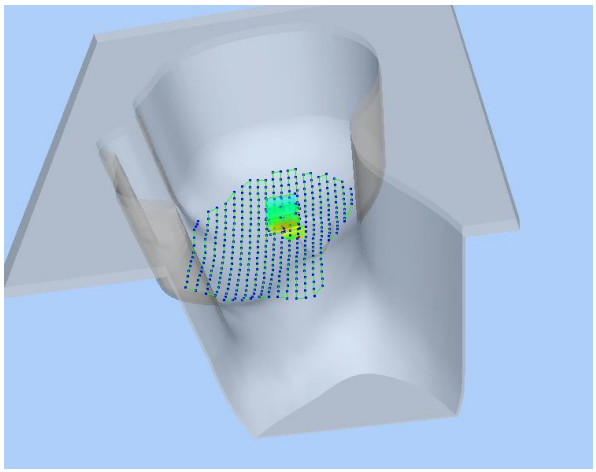
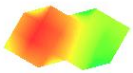
Maximum location: X=-13.00, Y=23.00

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.265205
SAR 1g (W/Kg)	0.509645

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9173	0.5572	0.2889	0.1519	0.0866



3D screen shot	Hot spot position
	

MEASUREMENT 3

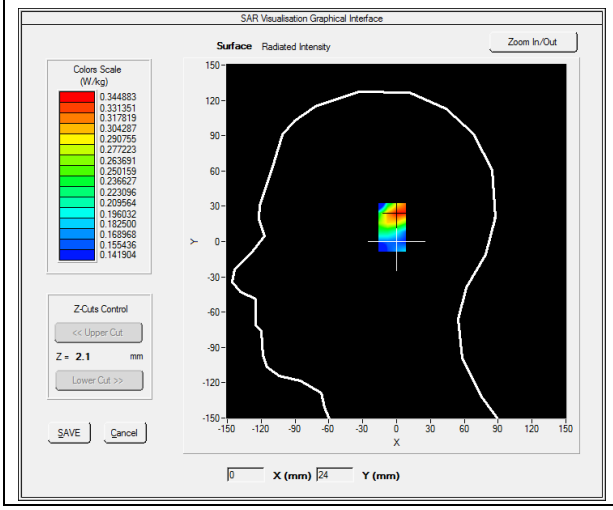
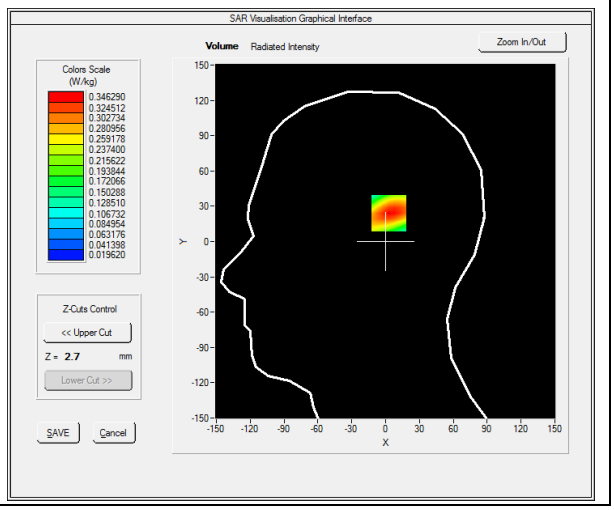
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	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)	39.060124
Conductivity (S/m)	1.393607
Power Variation (%)	0.820000
Ambient Temperature	22.0
Liquid Temperature	22.2

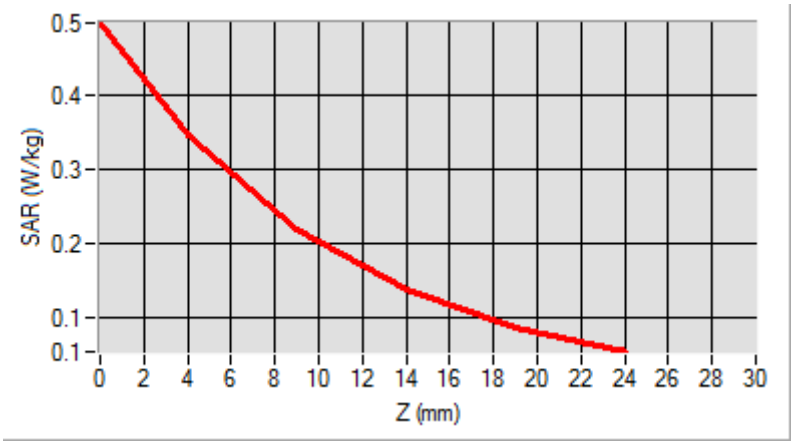
SURFACE SAR	VOLUME SAR
	

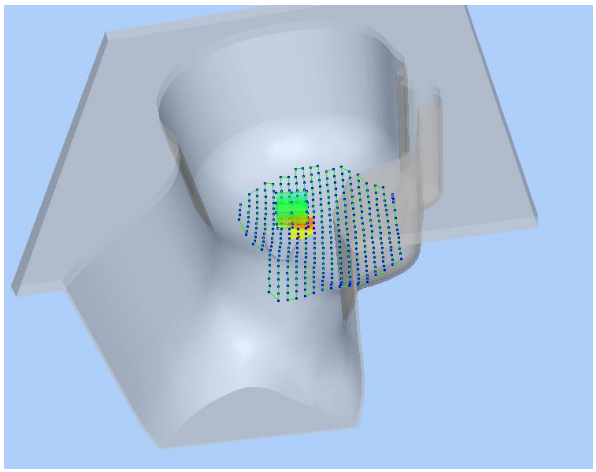
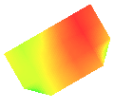
Maximum location: X=5.00, Y=25.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.198114
SAR 1g (W/Kg)	0.324742

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4967	0.3463	0.2173	0.1364	0.0866



3D screen shot	Hot spot position
	

MEASUREMENT 4

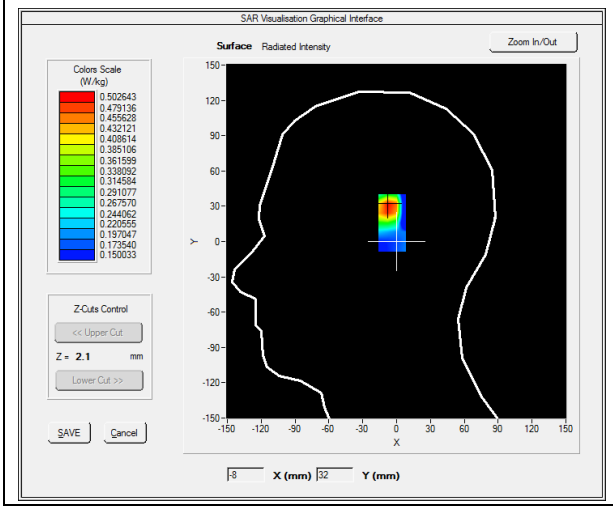
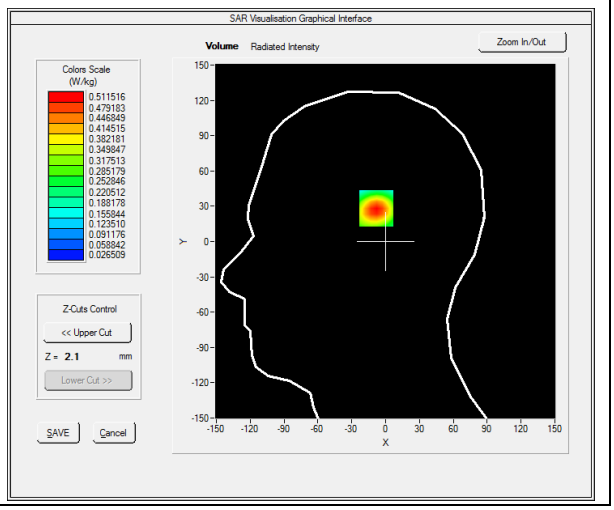
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1732.400000
Relative Permittivity (real part)	40.132275
Conductivity (S/m)	1.350987
Power Variation (%)	-1.200000
Ambient Temperature	22.0
Liquid Temperature	22.2

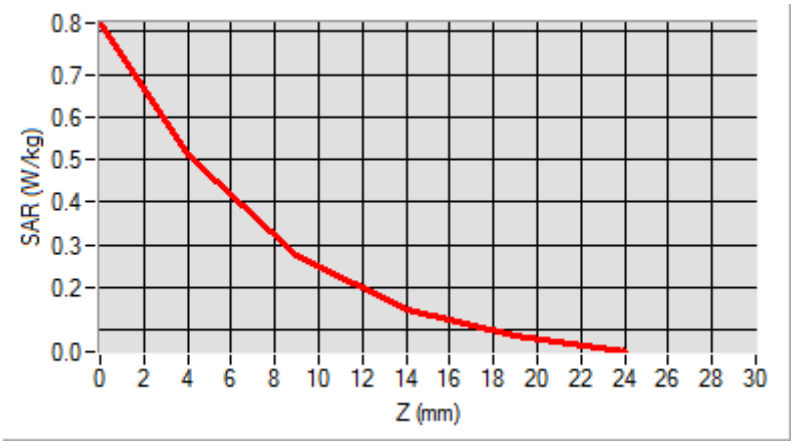
SURFACE SAR	VOLUME SAR
	

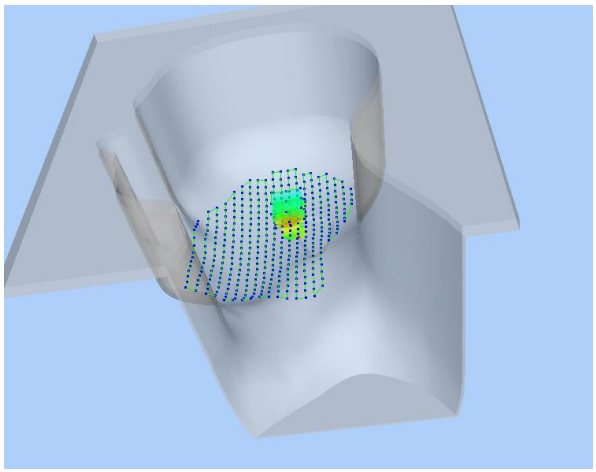
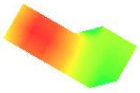
Maximum location: X=-7.00, Y=30.00

SAR Peak: 0.83 W/kg

SAR 10g (W/Kg)	0.256161
SAR 1g (W/Kg)	0.472738

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8206	0.5115	0.2749	0.1490	0.0856



3D screen shot	Hot spot position
	

MEASUREMENT 5

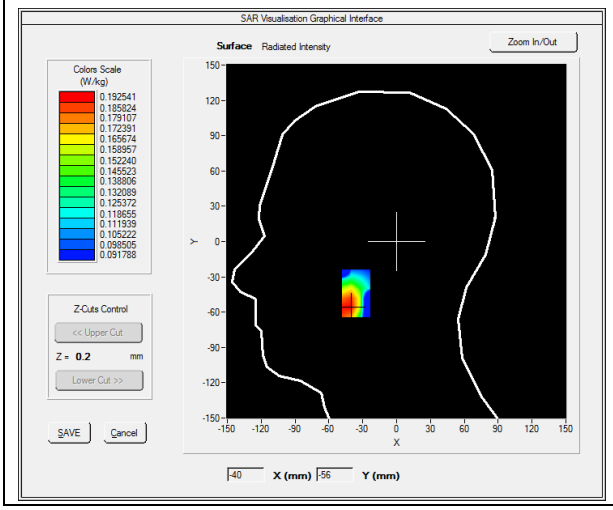
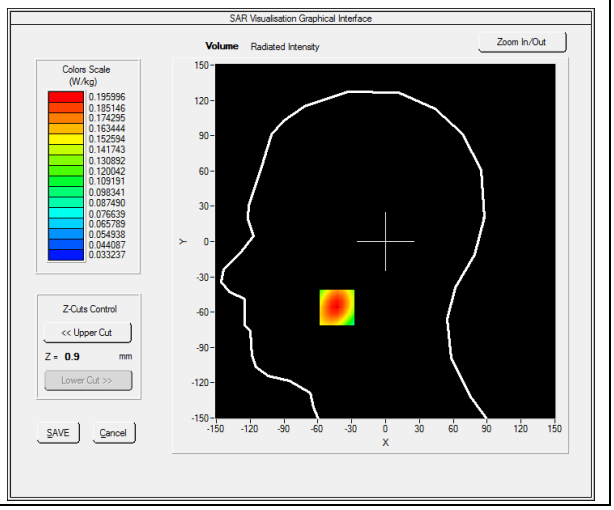
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

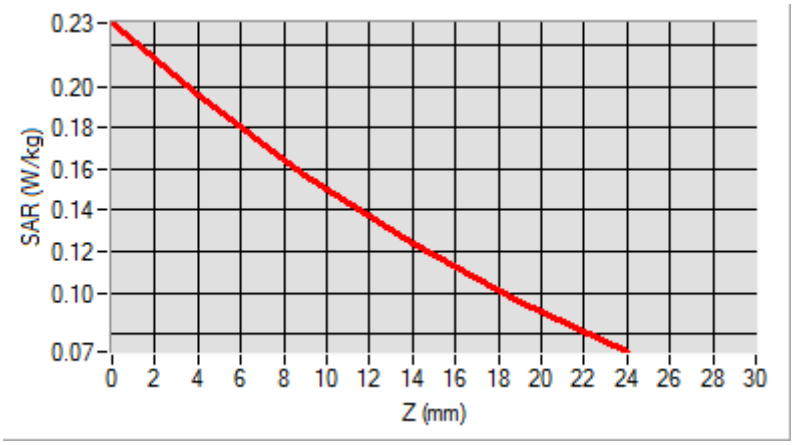
SURFACE SAR	VOLUME SAR
	

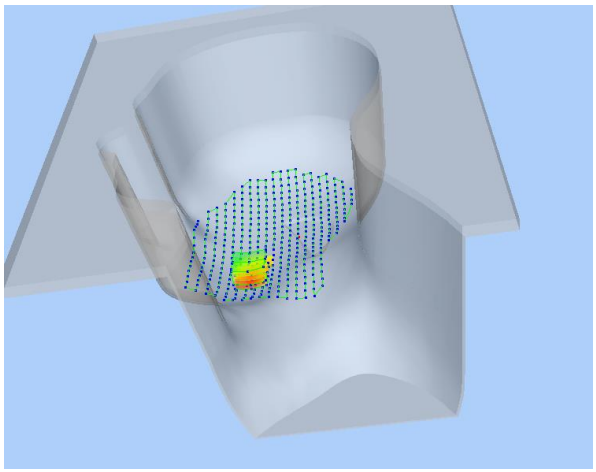
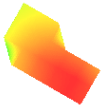
Maximum location: X=-43.00, Y=-56.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.138220
SAR 1g (W/Kg)	0.186917

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2311	0.1960	0.1573	0.1240	0.0956



3D screen shot	Hot spot position
	

MEASUREMENT 6

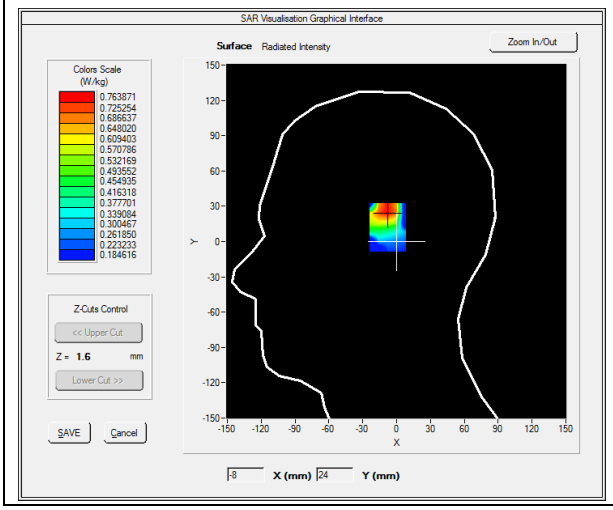
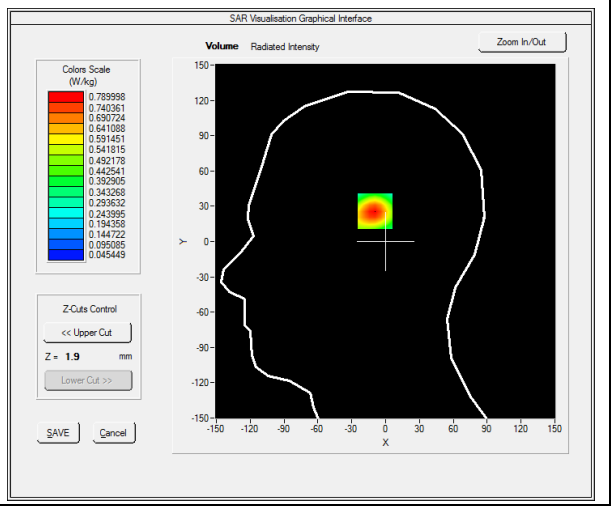
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

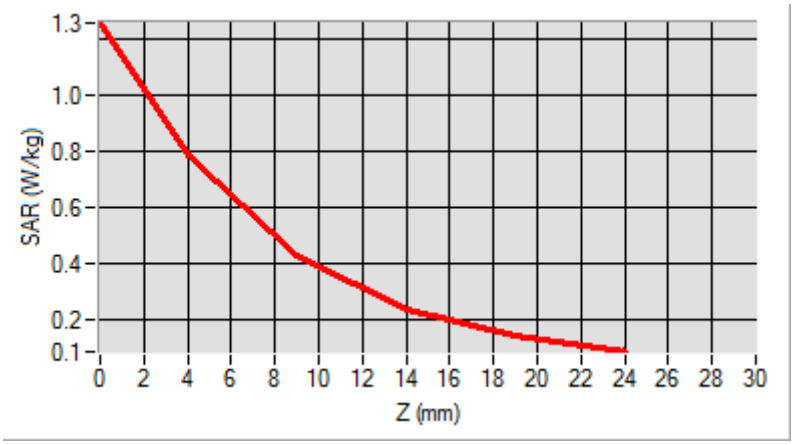
SURFACE SAR	VOLUME SAR
	

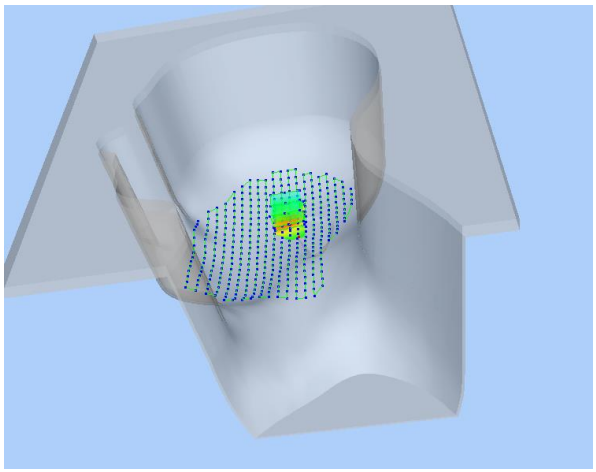
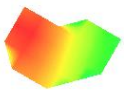
Maximum location: X=-8.00, Y=27.00

SAR Peak: 1.26 W/kg

SAR 10g (W/Kg)	0.408074
SAR 1g (W/Kg)	0.733749

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2569	0.7900	0.4319	0.2411	0.1450



3D screen shot	Hot spot position
	

MEASUREMENT 7

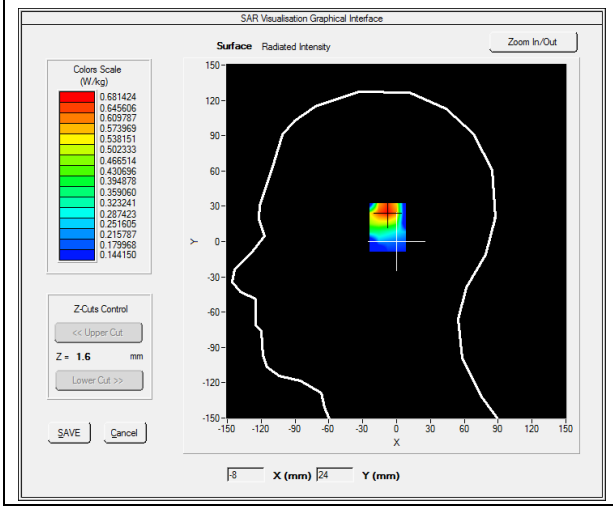
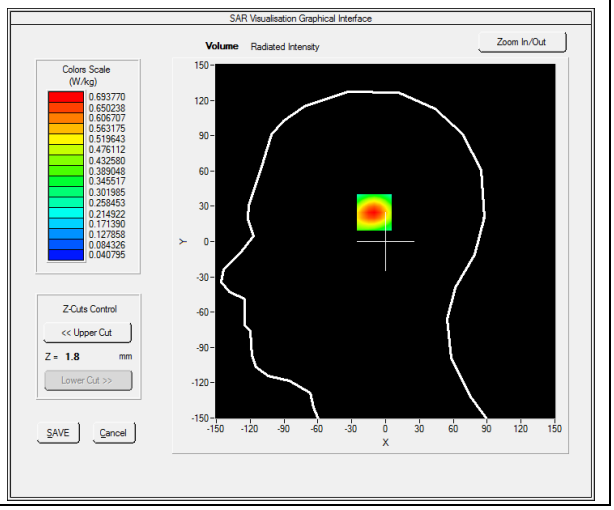
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

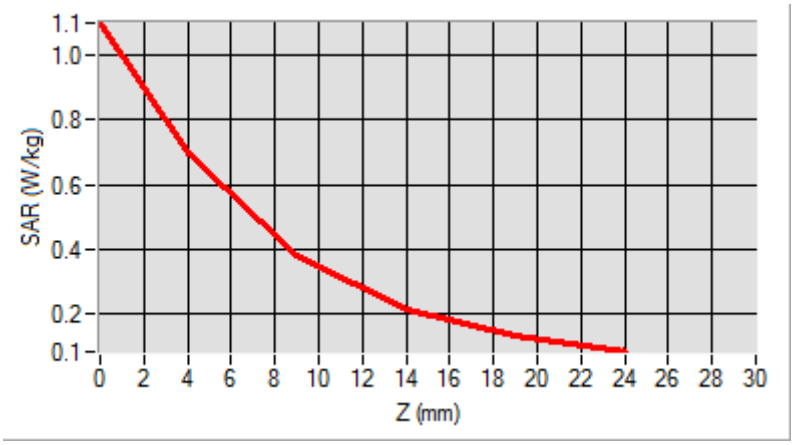
SURFACE SAR	VOLUME SAR
	

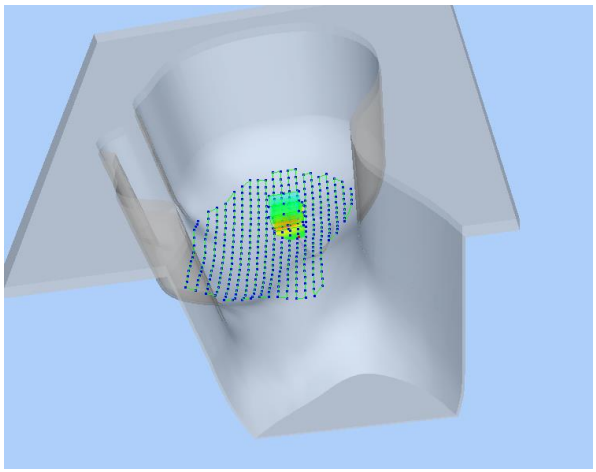
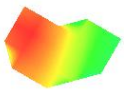
Maximum location: X=-9.00, Y=26.00

SAR Peak: 1.10 W/kg

SAR 10g (W/Kg)	0.358179
SAR 1g (W/Kg)	0.641954

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1017	0.6938	0.3806	0.2135	0.1293



3D screen shot	Hot spot position
	

MEASUREMENT 8

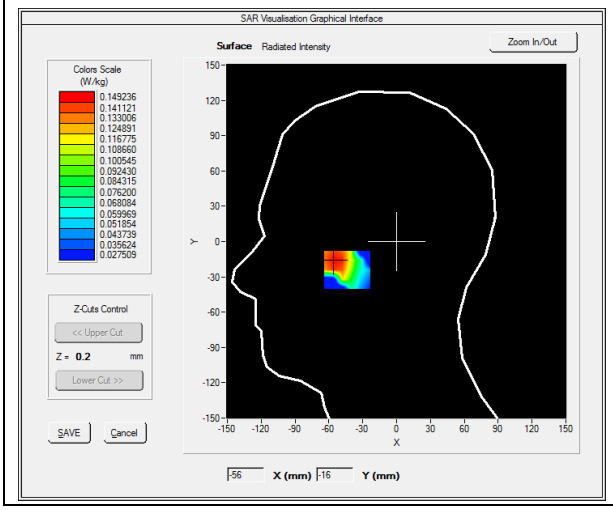
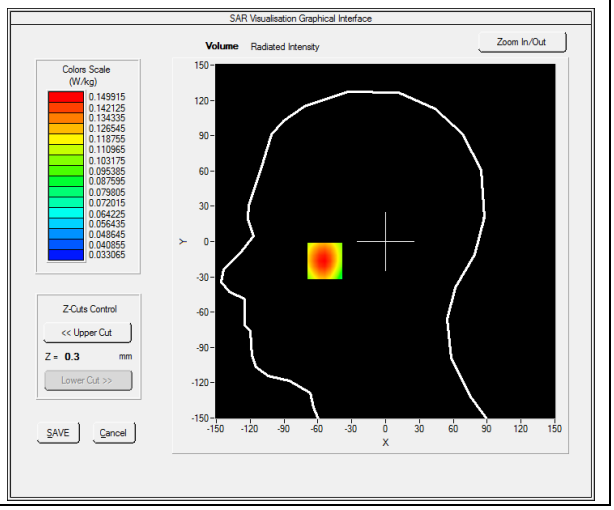
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	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

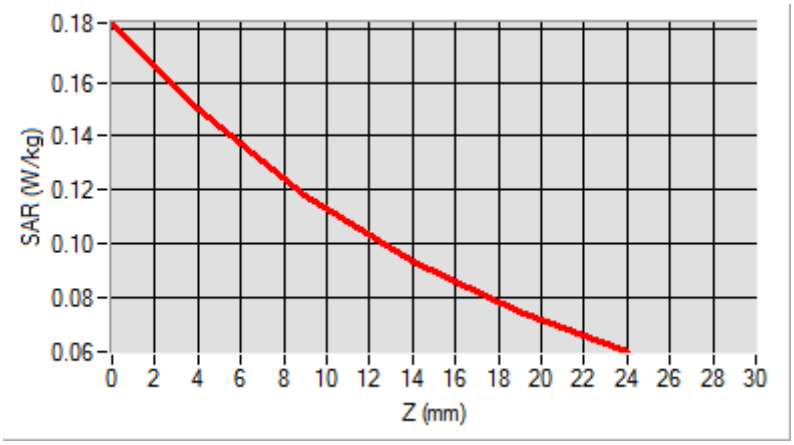
SURFACE SAR	VOLUME SAR
	

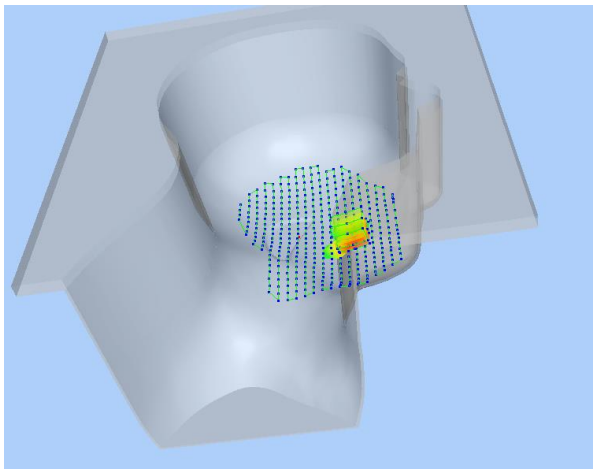
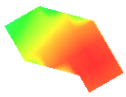
Maximum location: X=-54.00, Y=-16.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.107791
SAR 1g (W/Kg)	0.143288

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1822	0.1499	0.1178	0.0934	0.0749



3D screen shot	Hot spot position
	

MEASUREMENT 9

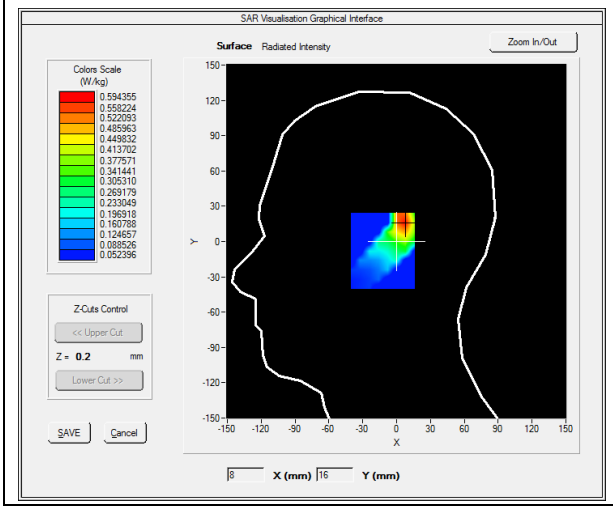
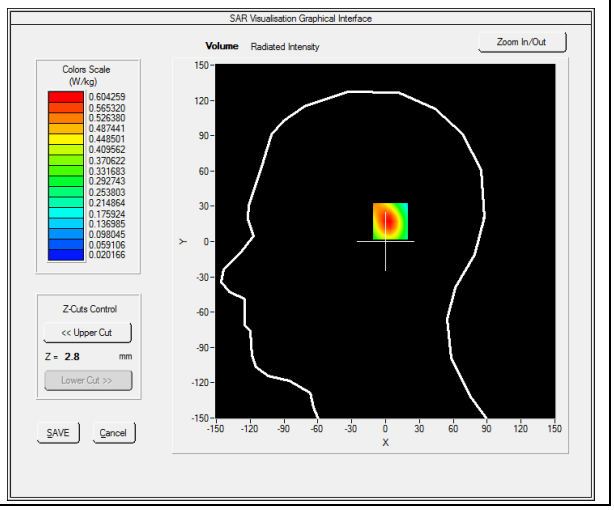
Type: Phone measurement (Complete)
Date of measurement: 2021-06-10
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

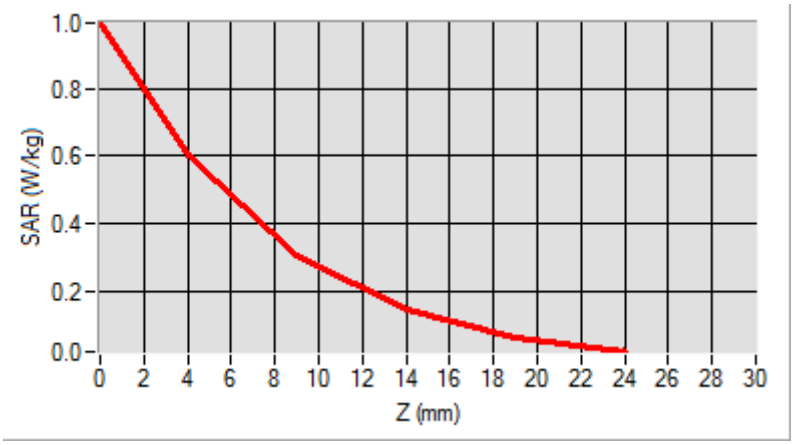
SURFACE SAR	VOLUME SAR
	

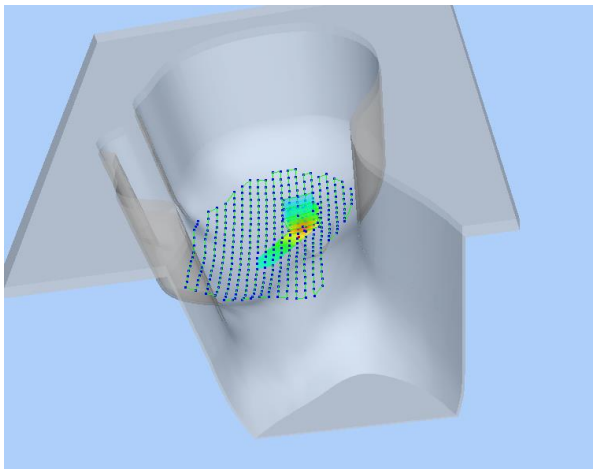
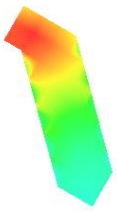
Maximum location: X=7.00, Y=17.00

SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.294106
SAR 1g (W/Kg)	0.564099

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9924	0.6043	0.3059	0.1459	0.0657



3D screen shot	Hot spot position
	

MEASUREMENT 10

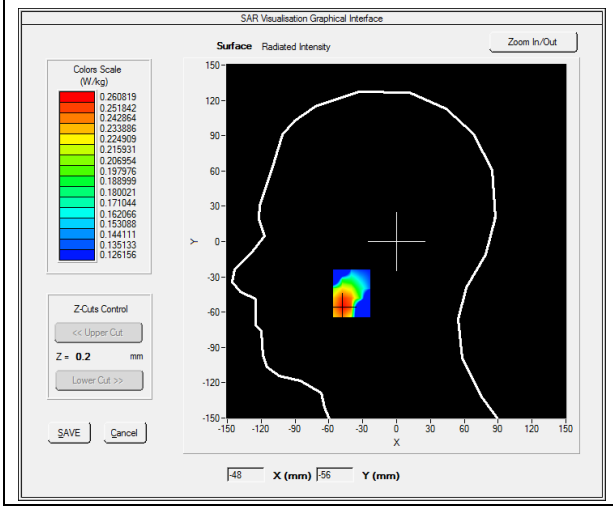
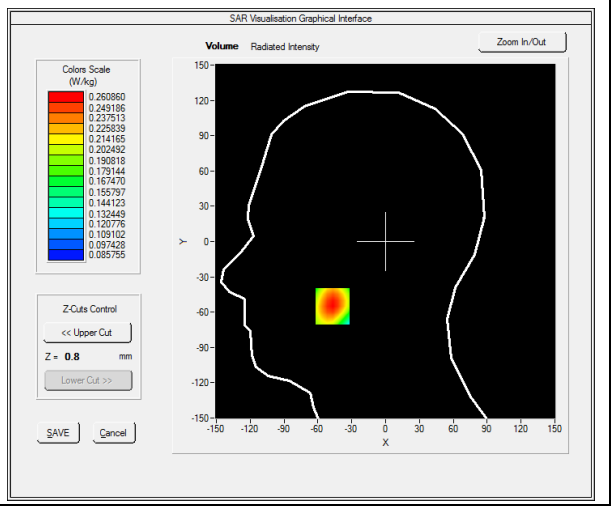
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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)	710.000000
Relative Permittivity (real part)	41.218668
Conductivity (S/m)	0.853696
Power Variation (%)	-1.050000
Ambient Temperature	22.0
Liquid Temperature	22.2

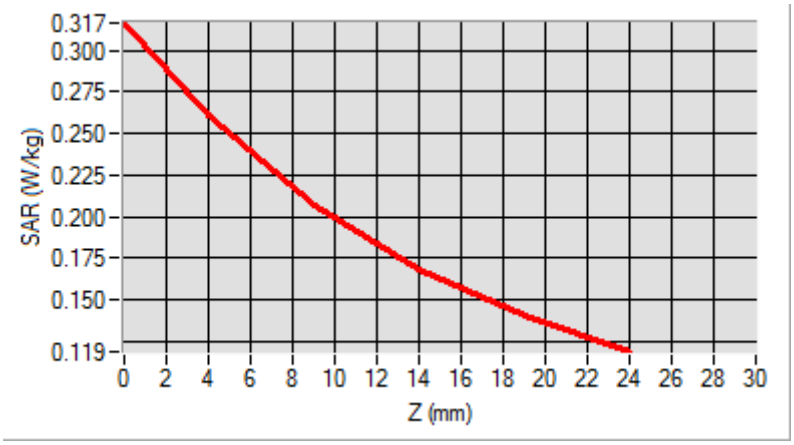
SURFACE SAR	VOLUME SAR
	

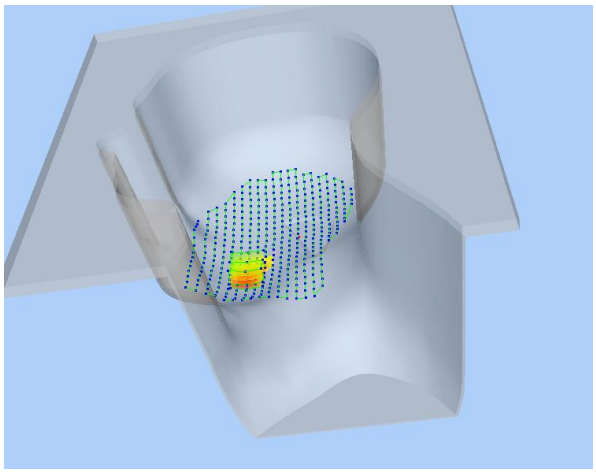
Maximum location: X=-47.00, Y=-55.00

SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.192151
SAR 1g (W/Kg)	0.254619

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3166	0.2609	0.2072	0.1686	0.1408



3D screen shot	Hot spot position
	

MEASUREMENT 11

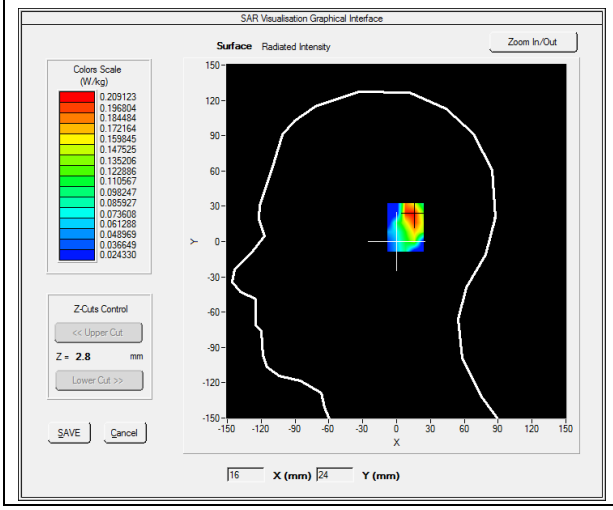
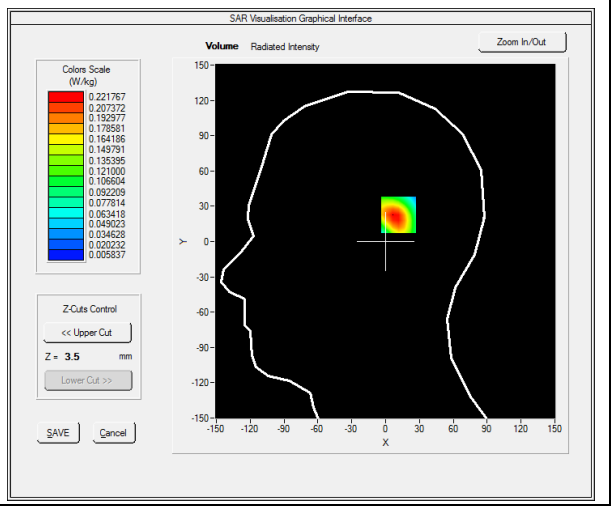
Type: Phone measurement (Complete)
Date of measurement: 2020-11-10
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.726001
Conductivity (S/m)	1.756388
Power Variation (%)	-0.960000
Ambient Temperature	22.0
Liquid Temperature	22.0

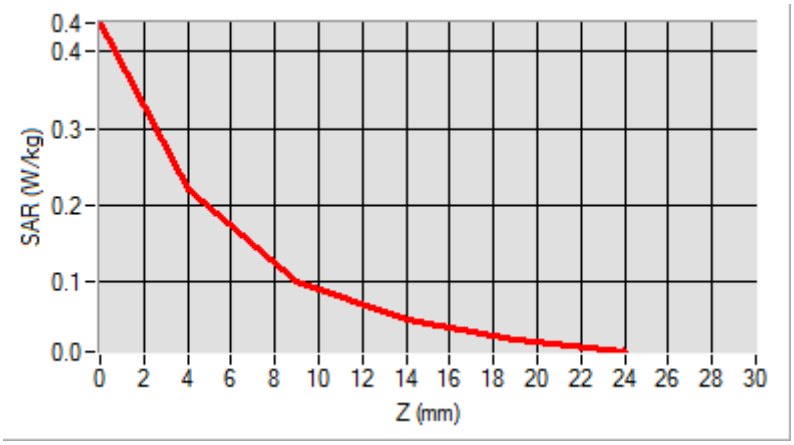
SURFACE SAR	VOLUME SAR
	

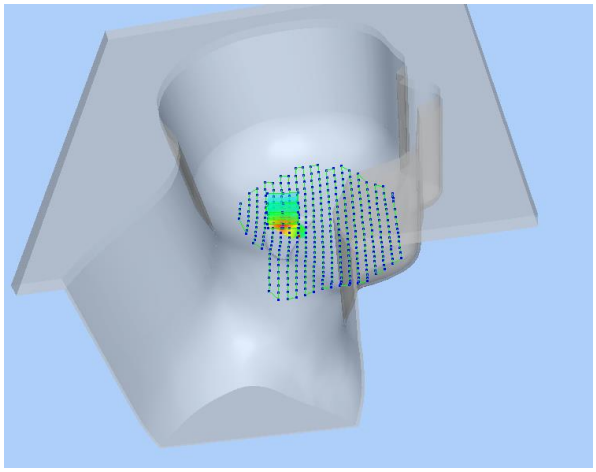
Maximum location: X=14.00, Y=23.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.106006
SAR 1g (W/Kg)	0.207476

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4369	0.2218	0.1002	0.0528	0.0258



3D screen shot	Hot spot position
	

MEASUREMENT 12

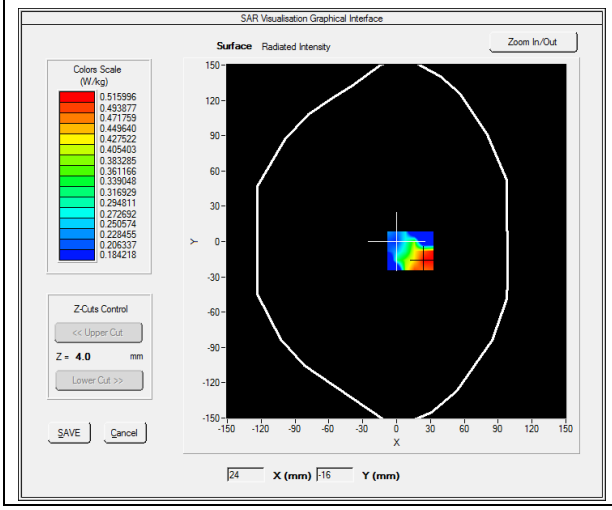
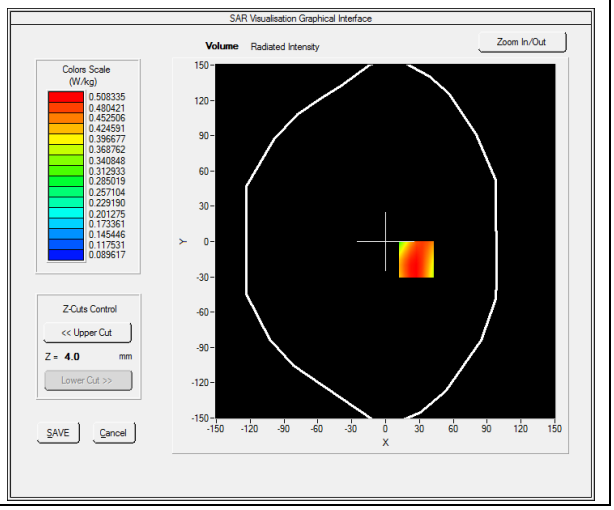
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	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

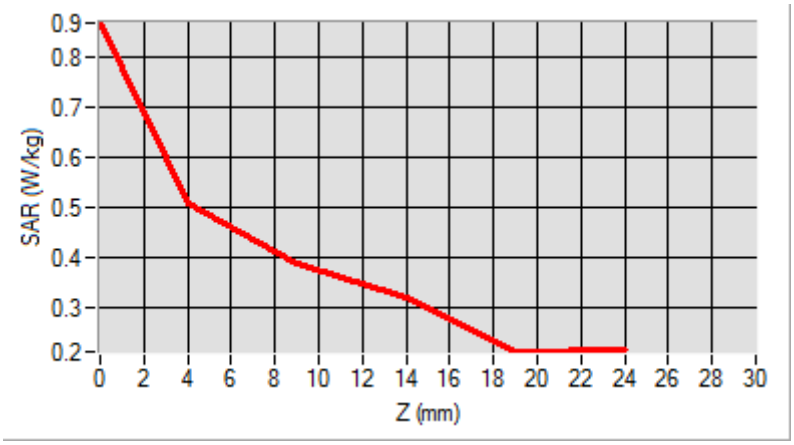
SURFACE SAR	VOLUME SAR
	

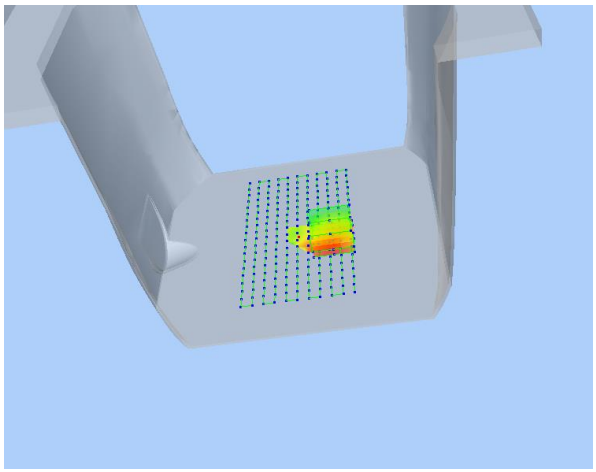
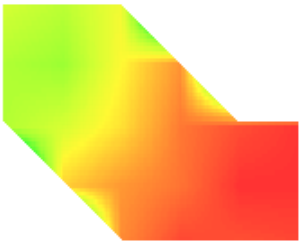
Maximum location: X=27.00, Y=-15.00

SAR Peak: 0.64 W/kg

SAR 10g (W/Kg)	0.374850
SAR 1g (W/Kg)	0.495624

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8697	0.5083	0.3871	0.3208	0.2127



3D screen shot	Hot spot position
	

MEASUREMENT 13

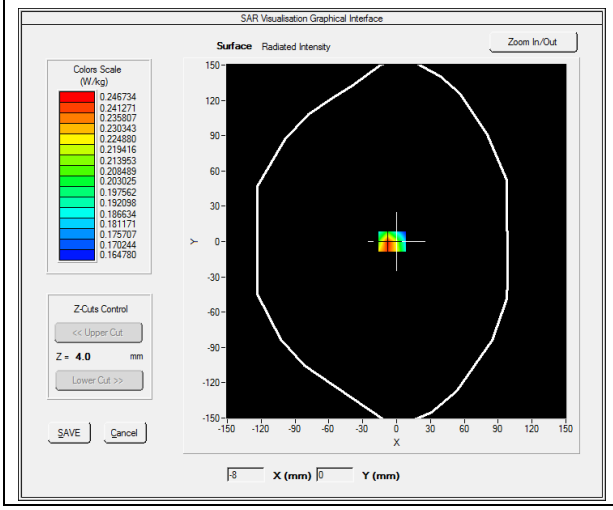
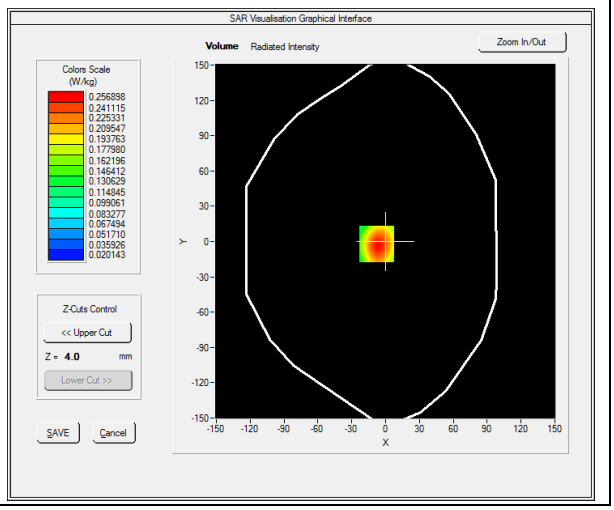
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

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

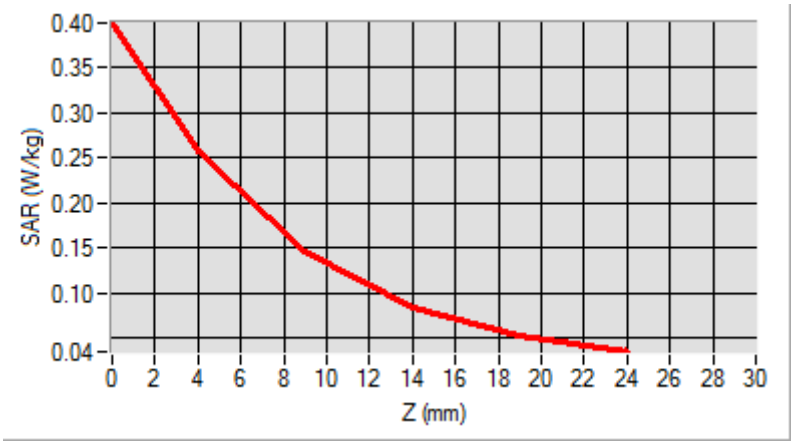
SURFACE SAR	VOLUME SAR
	

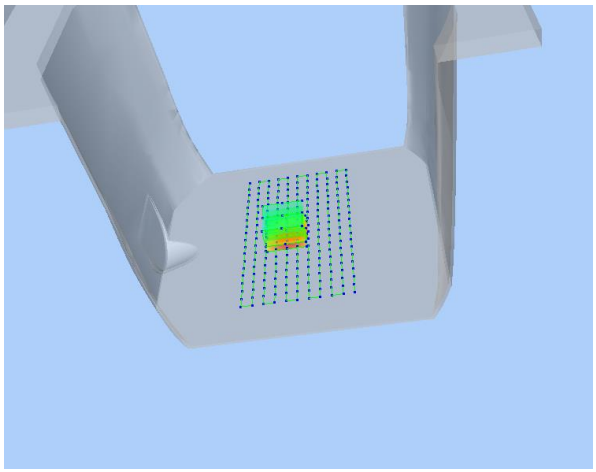
Maximum location: X=-8.00, Y=-2.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.140880
SAR 1g (W/Kg)	0.242519

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3997	0.2569	0.1457	0.0852	0.0539



3D screen shot	Hot spot position
	

MEASUREMENT 14/25

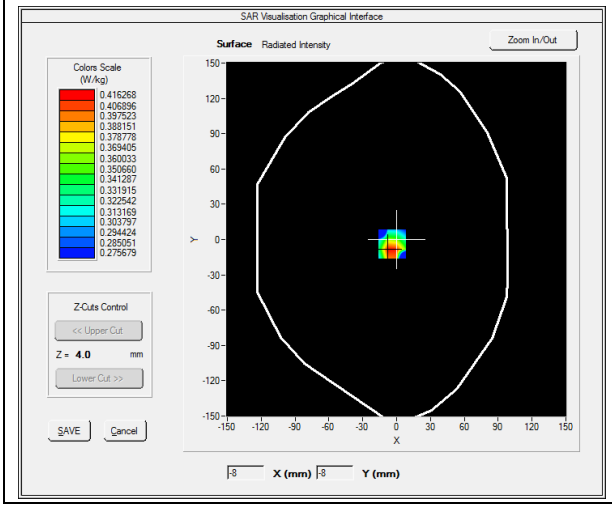
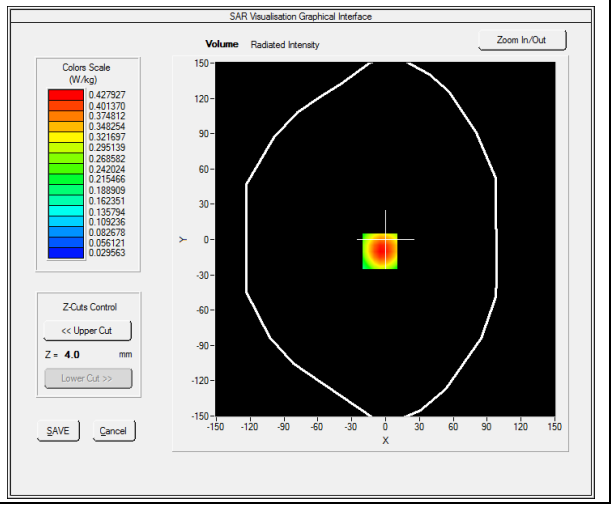
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	WCDMA1900_RMC
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	**1907.600000**
Relative Permittivity (real part)	**51.820415**
Conductivity (S/m)	**1.530966**
Power Variation (%)	**-0.470000**
Ambient Temperature	**22.0**
Liquid Temperature	**22.2**

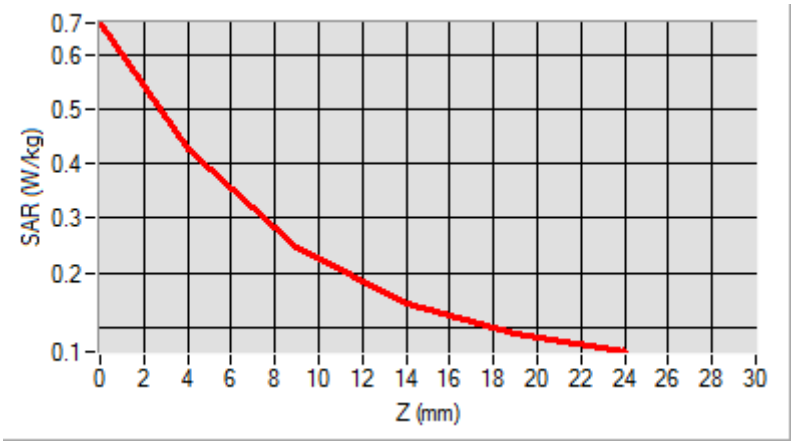
SURFACE SAR	VOLUME SAR
	

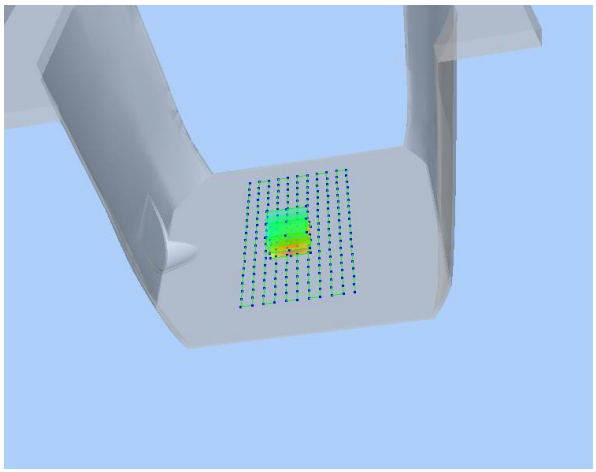
Maximum location: X=-5.00, Y=-10.00

SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.235709
SAR 1g (W/Kg)	0.403697

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6595	0.4279	148	0.1425	0.0880



3D screen shot	Hot spot position
	

MEASUREMENT 15/26

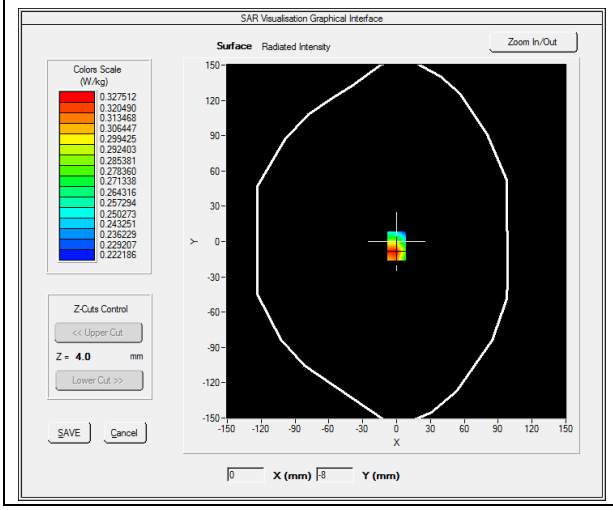
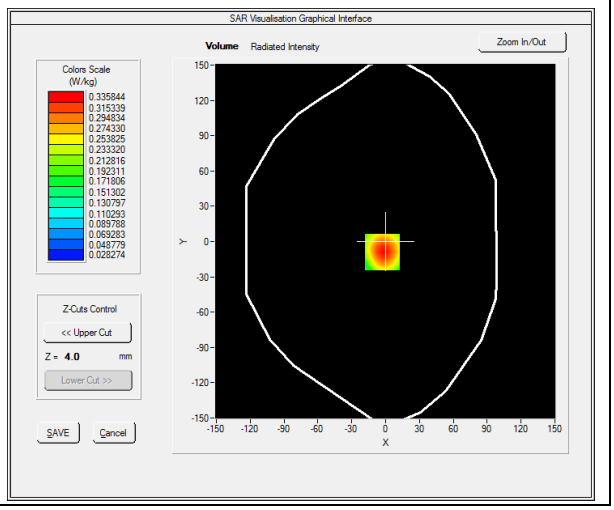
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	WCDMA1700_RMC
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1732.400000
Relative Permittivity (real part)	52.824060
Conductivity (S/m)	1.456085
Power Variation (%)	-0.500000
Ambient Temperature	22.0
Liquid Temperature	22.2

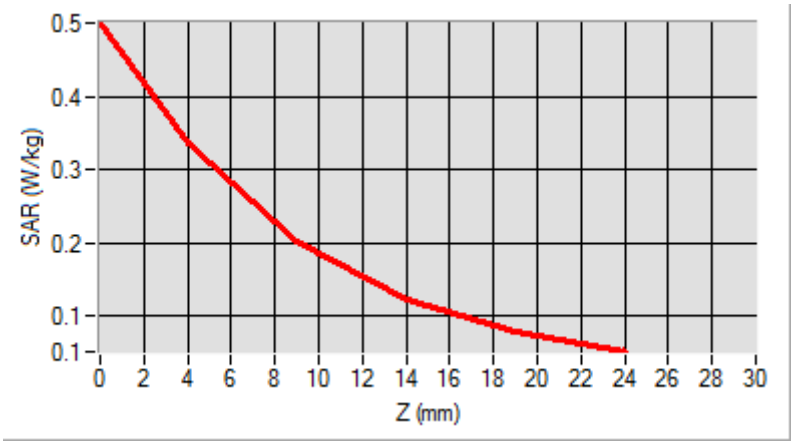
SURFACE SAR	VOLUME SAR
	

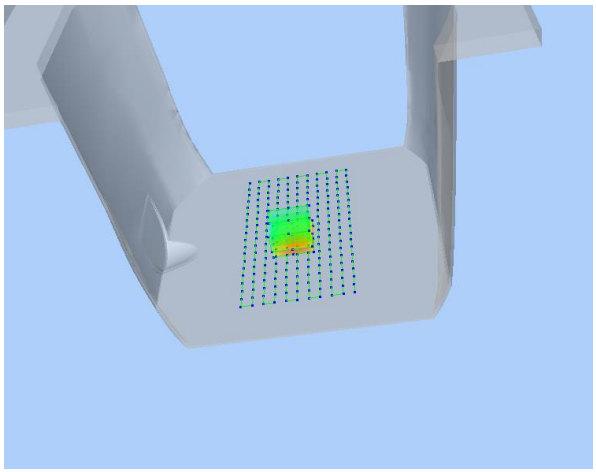
Maximum location: X=-3.00, Y=-9.00

SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.189696
SAR 1g (W/Kg)	0.315478

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5010	0.3358	0.2015	0.1234	0.0796



3D screen shot	Hot spot position
	

MEASUREMENT 16/27

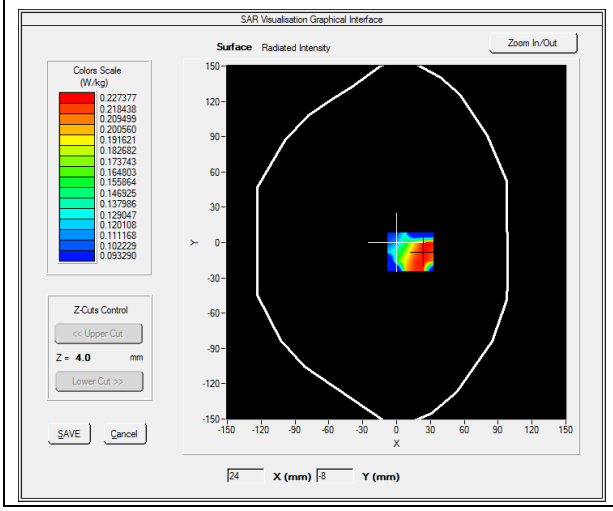
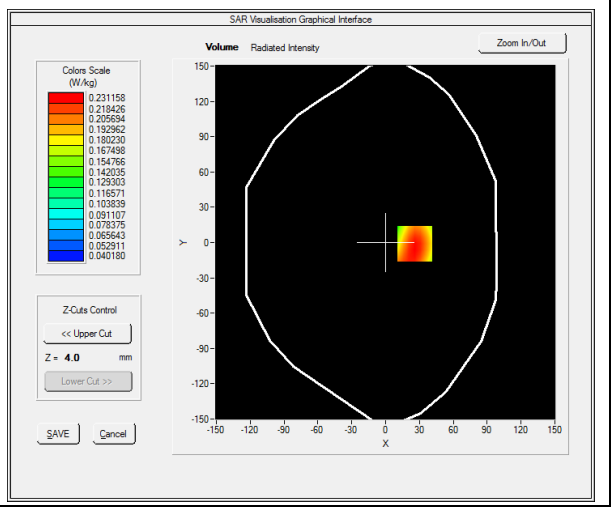
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	WCDMA850_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	826.400000
Relative Permittivity (real part)	55.751214
Conductivity (S/m)	0.962454
Power Variation (%)	-1.350000
Ambient Temperature	22.0
Liquid Temperature	22.2

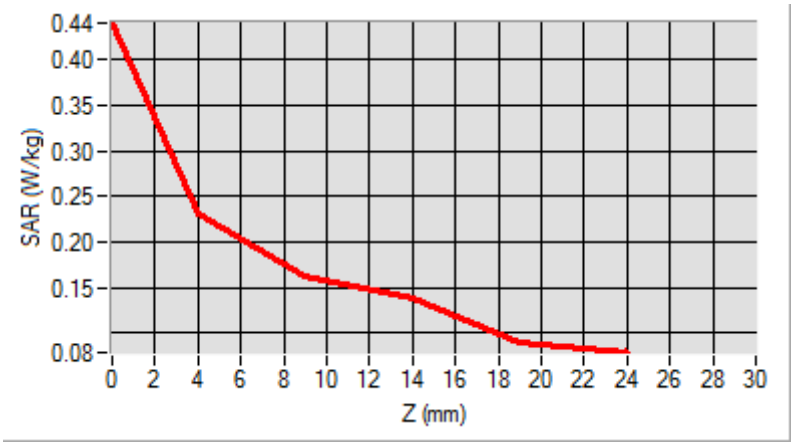
SURFACE SAR	VOLUME SAR
	

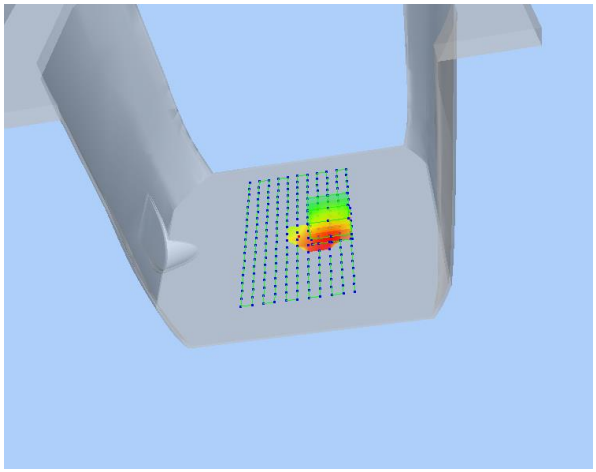
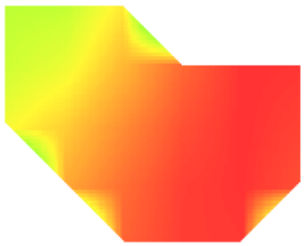
Maximum location: X=26.00, Y=-1.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.162397
SAR 1g (W/Kg)	0.223379

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4405	0.2312	0.1632	0.1373	0.0884



3D screen shot	Hot spot position
	

MEASUREMENT 17/28

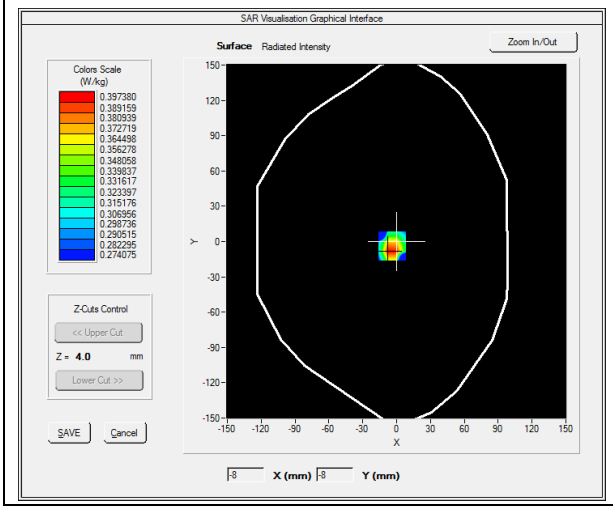
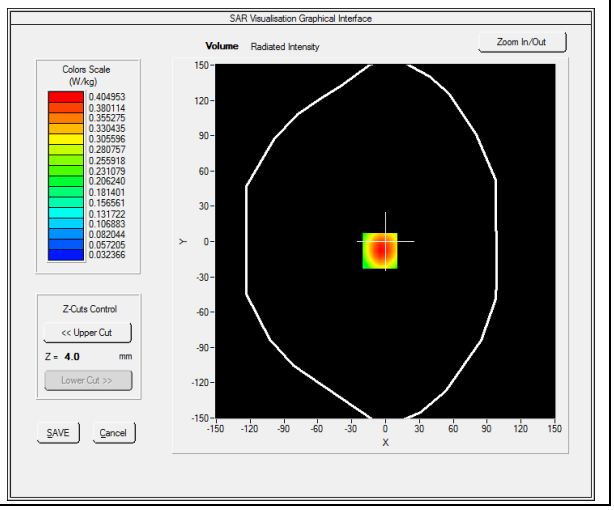
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	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)	53.402415
Conductivity (S/m)	1.501966
Power Variation (%)	-0.190000
Ambient Temperature	22.0
Liquid Temperature	22.2

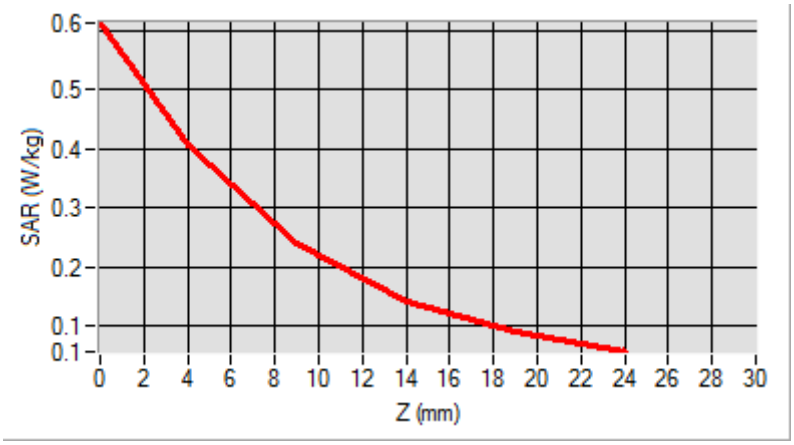
SURFACE SAR	VOLUME SAR
	

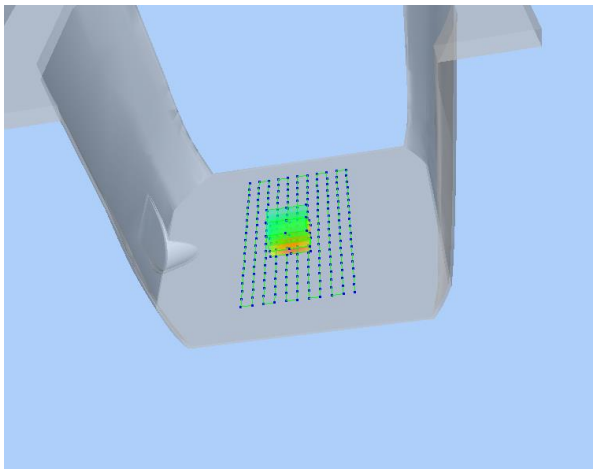
Maximum location: X=-5.00, Y=-8.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.226235
SAR 1g (W/Kg)	0.381761

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6124	0.4050	0.2379	0.1421	0.0892



3D screen shot	Hot spot position
	

MEASUREMENT 18/29

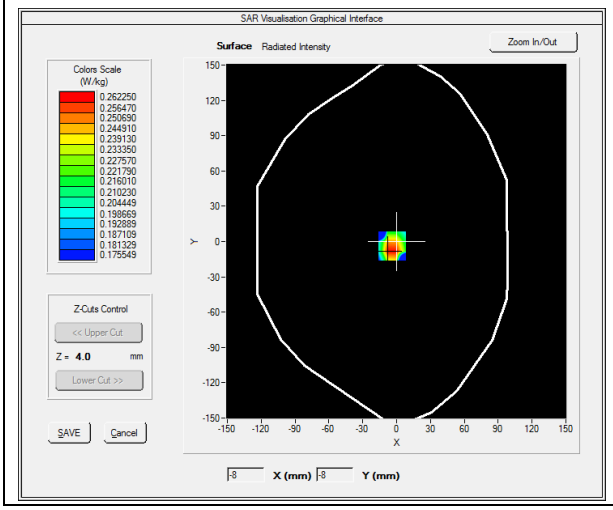
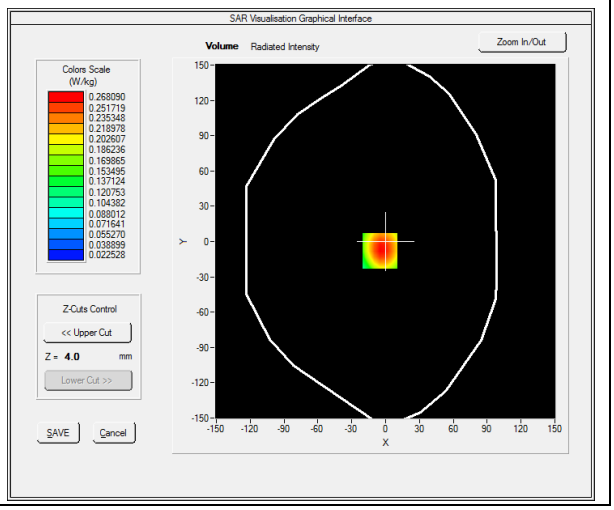
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	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)	52.824060
Conductivity (S/m)	1.456085
Power Variation (%)	-0.860000
Ambient Temperature	22.0
Liquid Temperature	22.2

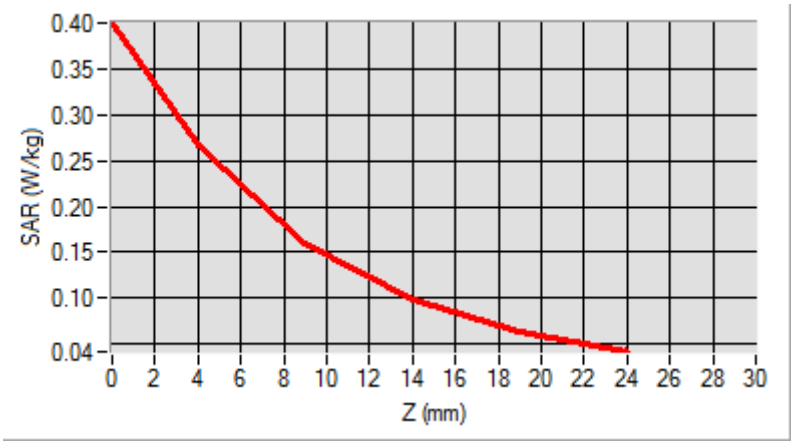
SURFACE SAR	VOLUME SAR
	

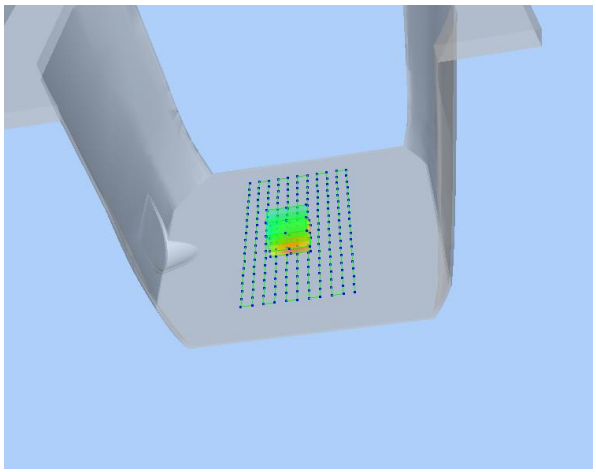
Maximum location: X=-5.00, Y=-8.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.153686
SAR 1g (W/Kg)	0.254049

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4010	0.2681	0.1603	0.0978	0.0630



3D screen shot	Hot spot position
	

MEASUREMENT 19/30

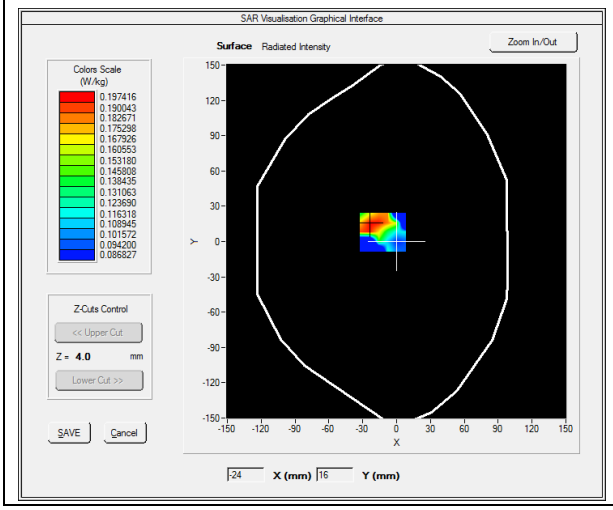
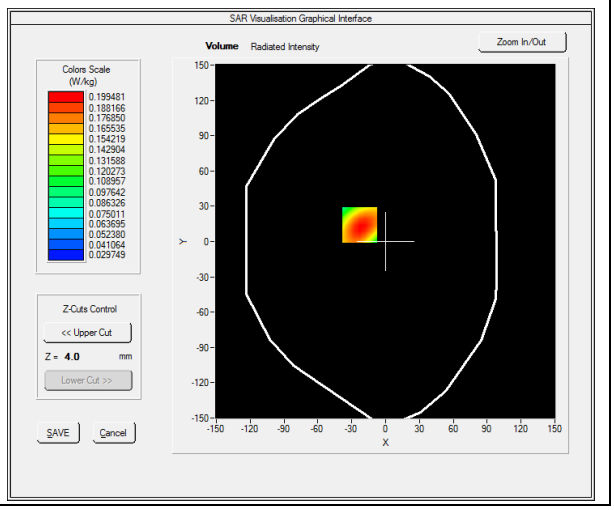
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	849.000000
Relative Permittivity (real part)	55.681264
Conductivity (S/m)	0.966454
Power Variation (%)	-0.810000
Ambient Temperature	22.0
Liquid Temperature	22.2

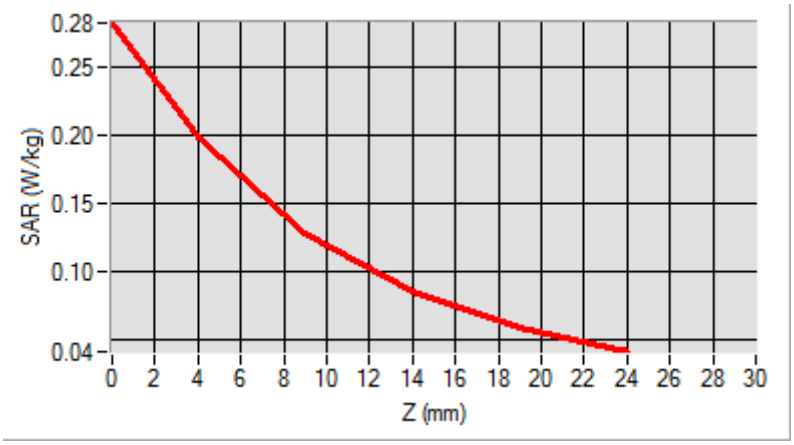
SURFACE SAR	VOLUME SAR
	

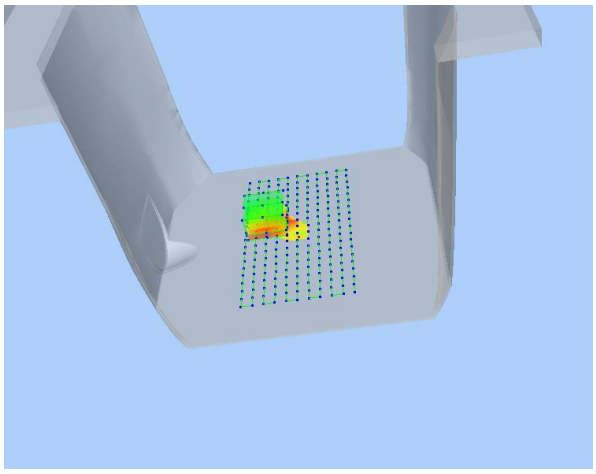
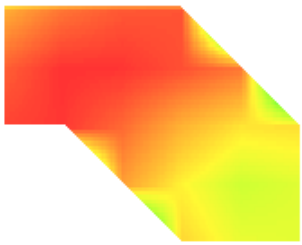
Maximum location: X=-23.00, Y=14.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.122703
SAR 1g (W/Kg)	0.189982

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2826	0.1995	0.1289	0.0855	0.0594



3D screen shot	Hot spot position
	

MEASUREMENT 20/17

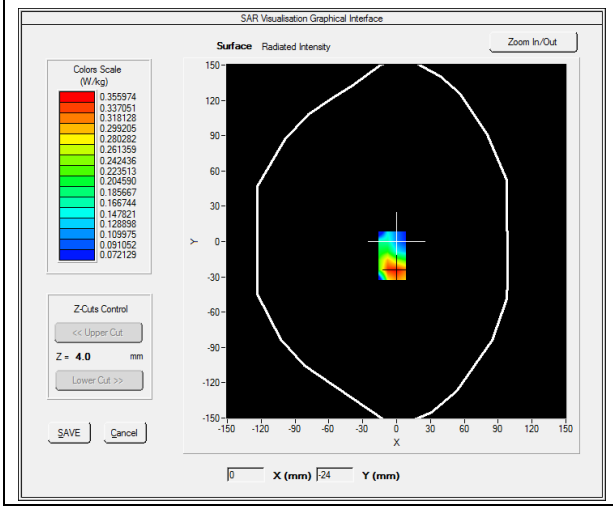
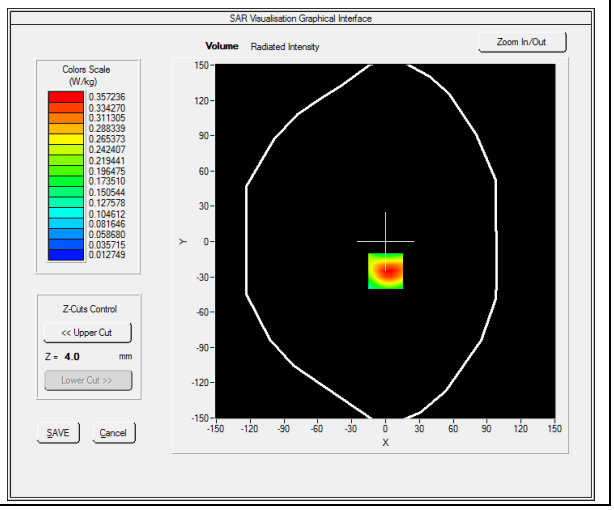
Type: Phone measurement (Complete)
Date of measurement: 2021-06-10
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	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)	52.830001
Conductivity (S/m)	2.142787
Power Variation (%)	-1.010000
Ambient Temperature	22.0
Liquid Temperature	22.2

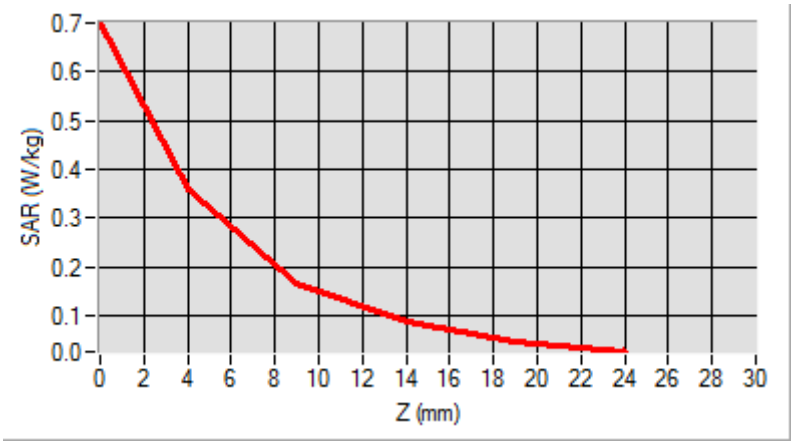
SURFACE SAR	VOLUME SAR
	

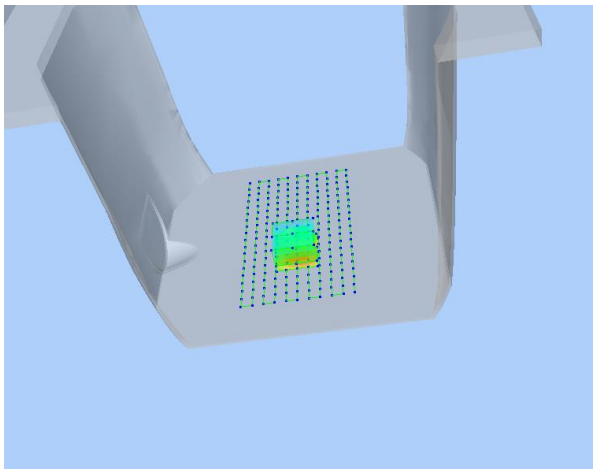
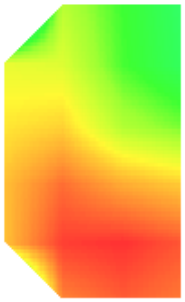
Maximum location: X=0.00, Y=-25.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.174399
SAR 1g (W/Kg)	0.334071

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7006	0.3572	0.1648	0.0883	0.0438



3D screen shot	Hot spot position
	

MEASUREMENT 17/32

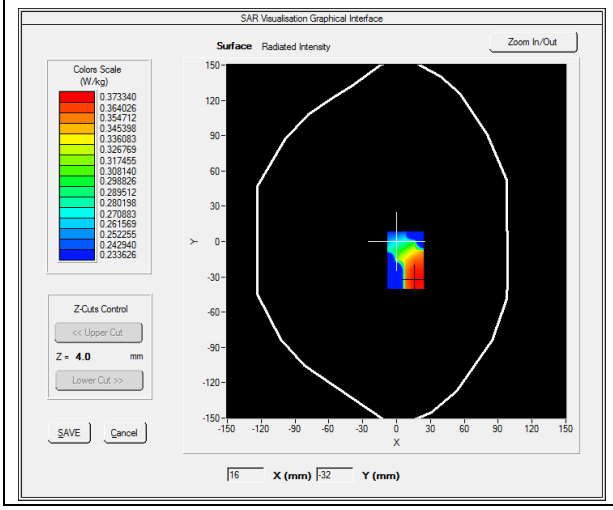
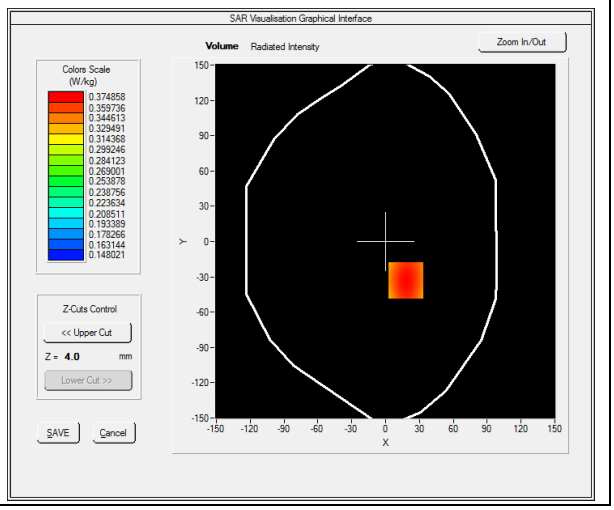
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 17
Channels	QPSK, 10MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative Permittivity (real part)	56.304515
Conductivity (S/m)	0.930042
Power Variation (%)	-1.370000
Ambient Temperature	22.0
Liquid Temperature	22.2

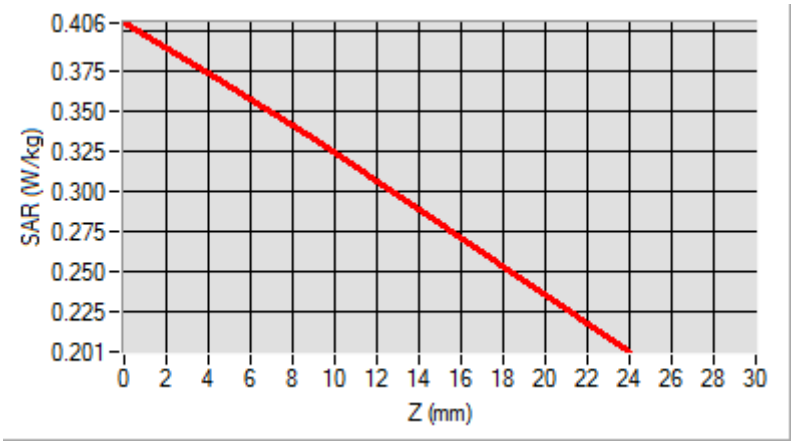
SURFACE SAR	VOLUME SAR
	

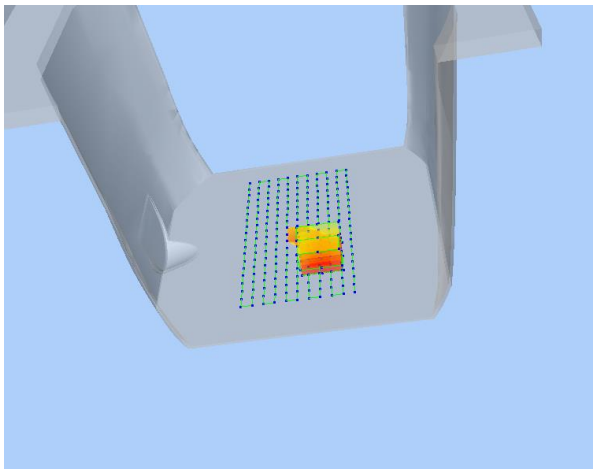
Maximum location: X=18.00, Y=-33.00

SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.315196
SAR 1g (W/Kg)	0.373647

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4056	0.3749	0.3333	0.2890	0.2438



3D screen shot	Hot spot position
	

MEASUREMENT 22/33

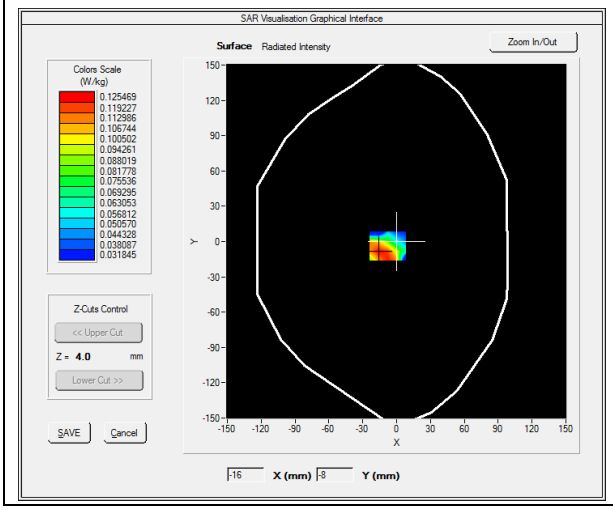
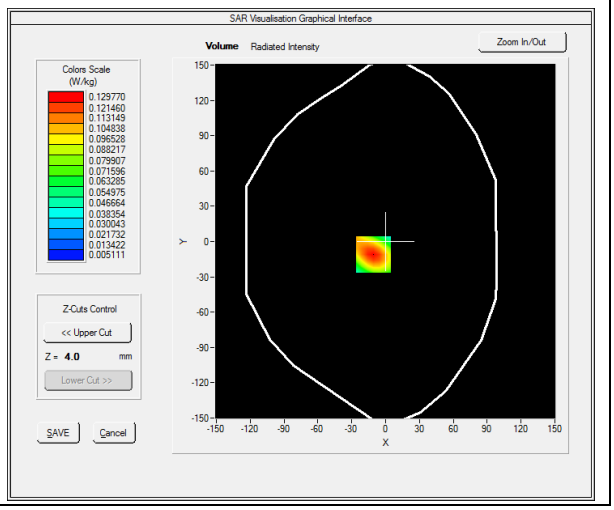
Type: Phone measurement (Complete)
Date of measurement: 2021-06-10
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	WiFi_802.11b
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	53.580268
Conductivity (S/m)	1.952865
Power Variation (%)	0.360000
Ambient Temperature	22.0
Liquid Temperature	22.2

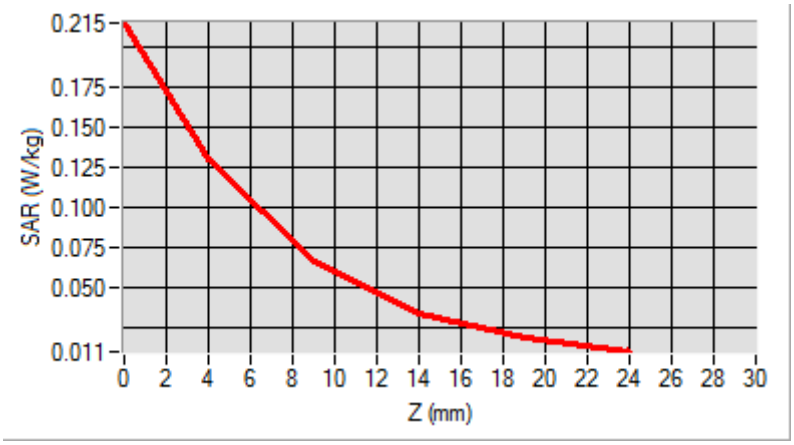
SURFACE SAR	VOLUME SAR
	

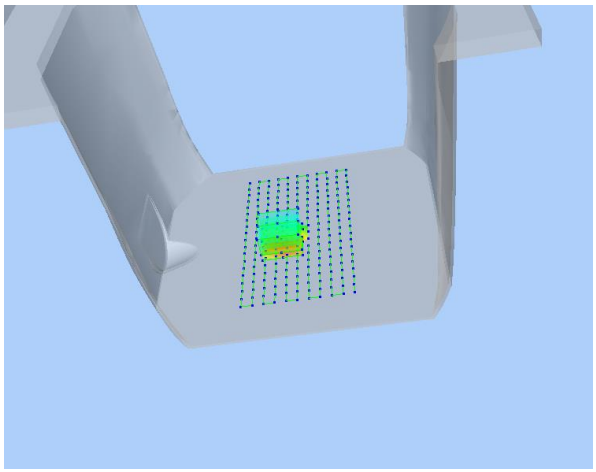
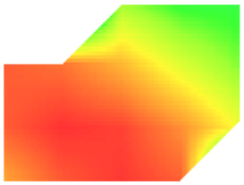
Maximum location: X=-11.00, Y=-11.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.064710
SAR 1g (W/Kg)	0.120525

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2146	0.1298	0.0666	0.0344	0.0190



3D screen shot	Hot spot position
	

MEASUREMENT 23

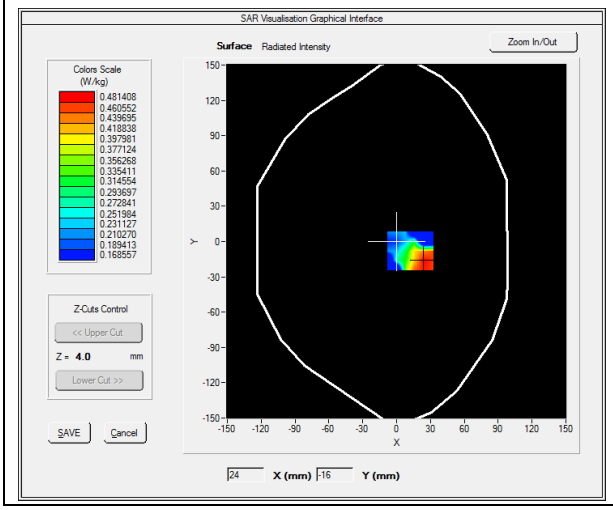
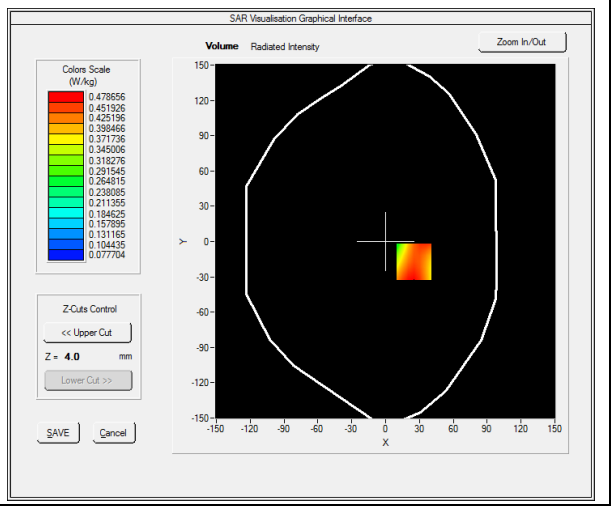
Type: Phone measurement (Complete)
Date of measurement: 2021-06-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS850_2TX
Channels	Low
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

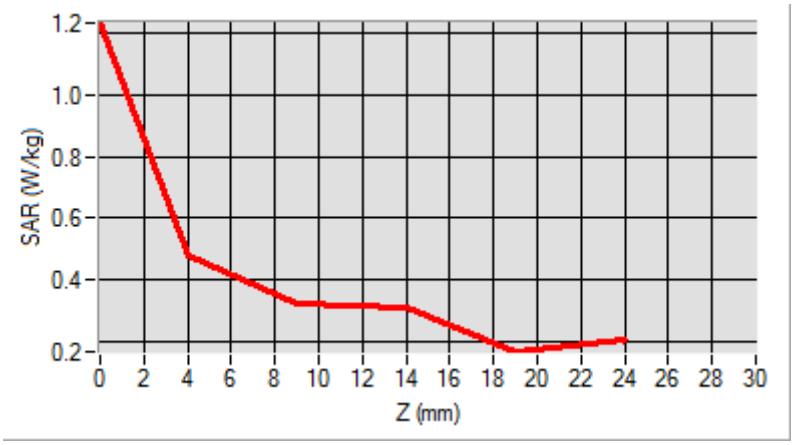
SURFACE SAR	VOLUME SAR
	

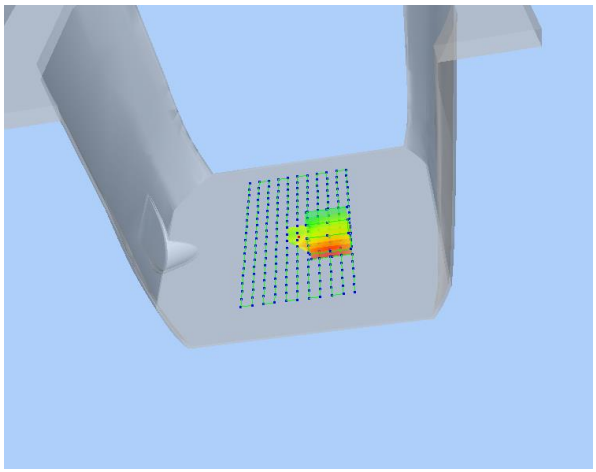
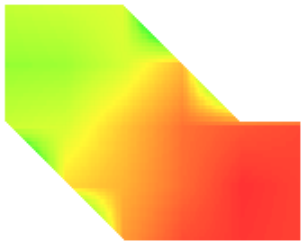
Maximum location: X=25.00, Y=-17.00

SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.338224
SAR 1g (W/Kg)	0.450253

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2322	0.4787	0.3265	0.3094	0.1683



3D screen shot	Hot spot position
	

MEASUREMENT 24

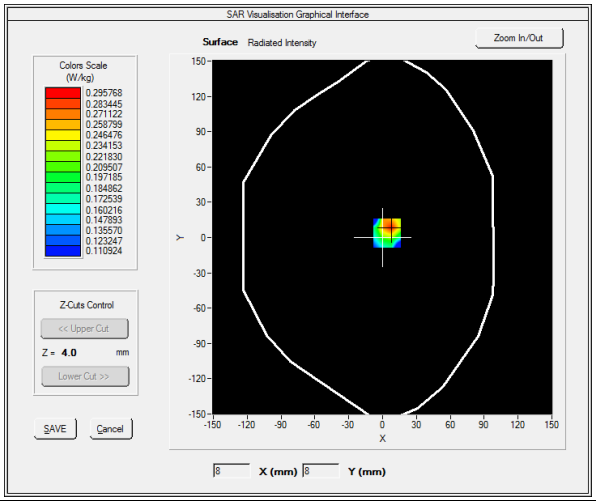
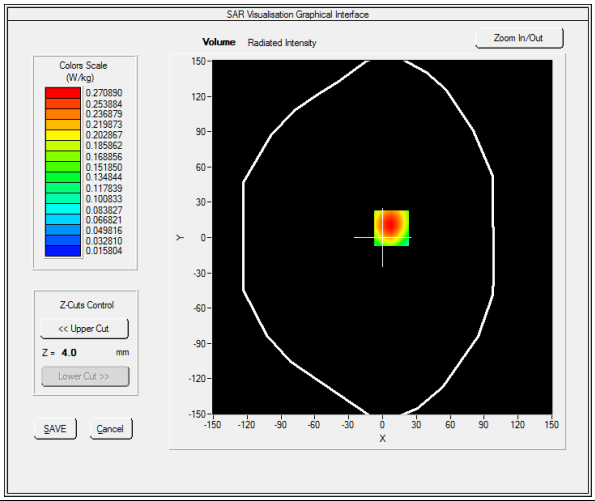
Type: Phone measurement (Complete)
Date of measurement: 2021-06-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - SN 45/15 EPGO280; ConvF: Refer to the Calibration Certificate; Calibrated: 2020-07-03

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Top
Band	GPRS1900_3TX
Channels	High
Signal	Duty Cycle: 1:2.66

B. SAR Measurement Results

Frequency (MHz)	1909.800000
Relative Permittivity (real part)	51.820415
Conductivity (S/m)	1.530966
Power Variation (%)	-0.730000
Ambient Temperature	22.0
Liquid Temperature	22.2

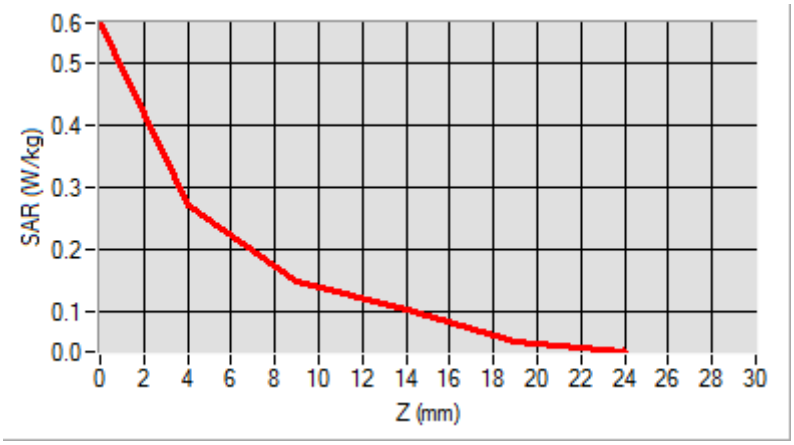
SURFACE SAR	VOLUME SAR
	

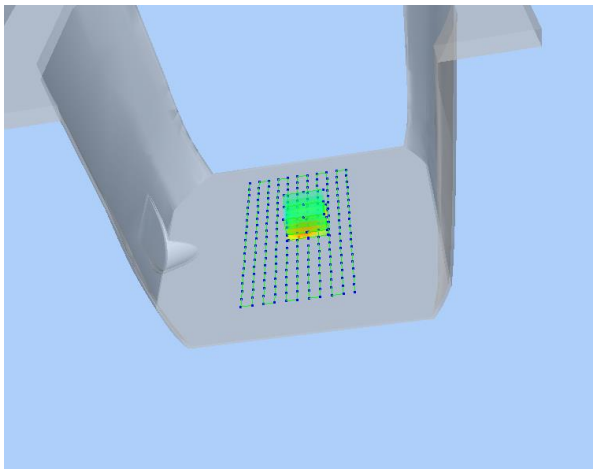
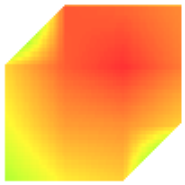
Maximum location: X=8.00, Y=8.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.152605
SAR 1g (W/Kg)	0.256136

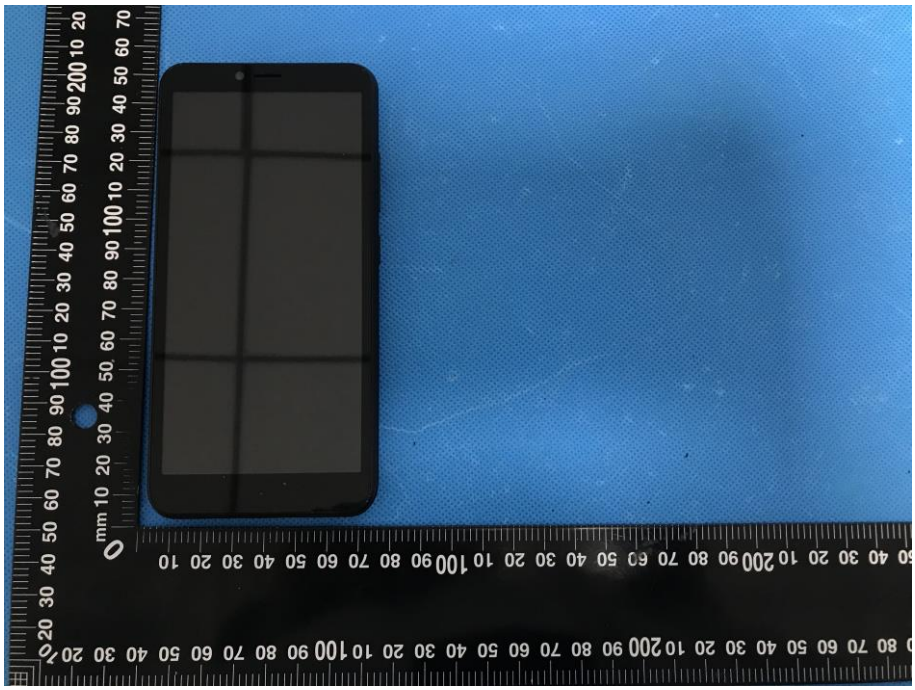
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5631	0.2709	0.1488	0.1042	0.0524



3D screen shot	Hot spot position
	

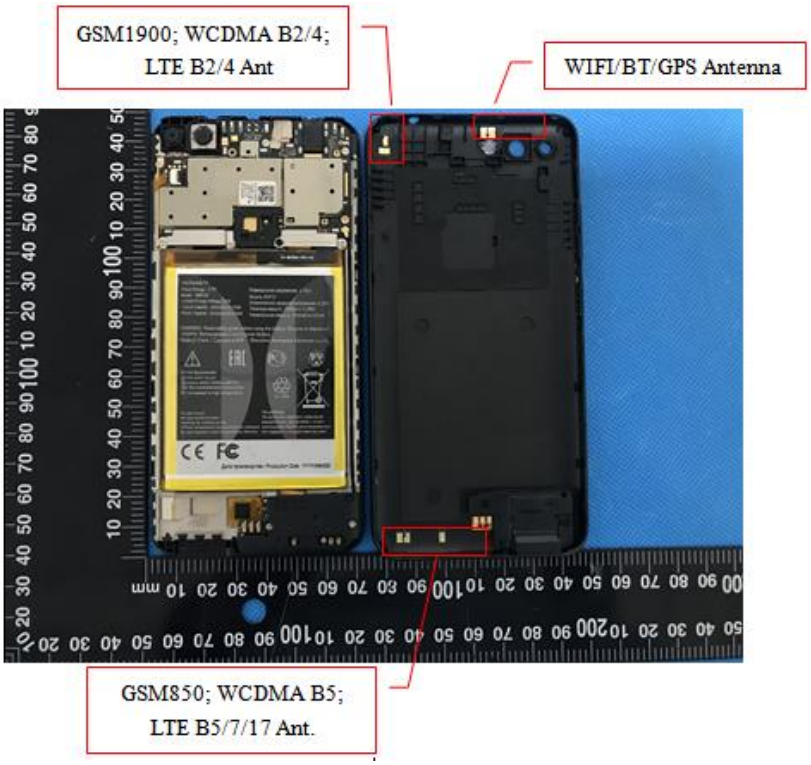
Annex C. EUT Photos

EUT View Front



EUT View Back

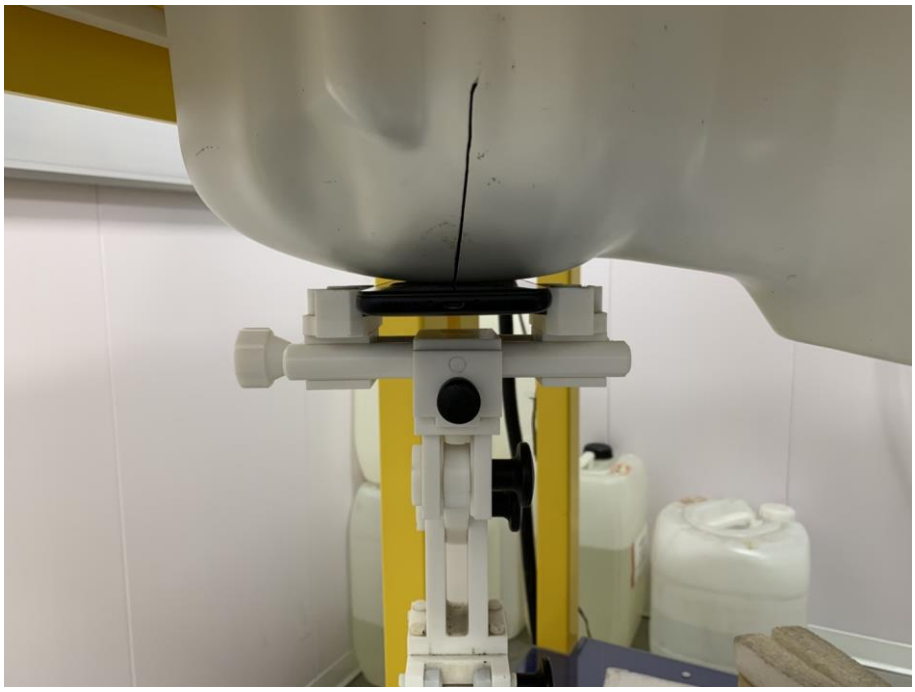
Antenna View



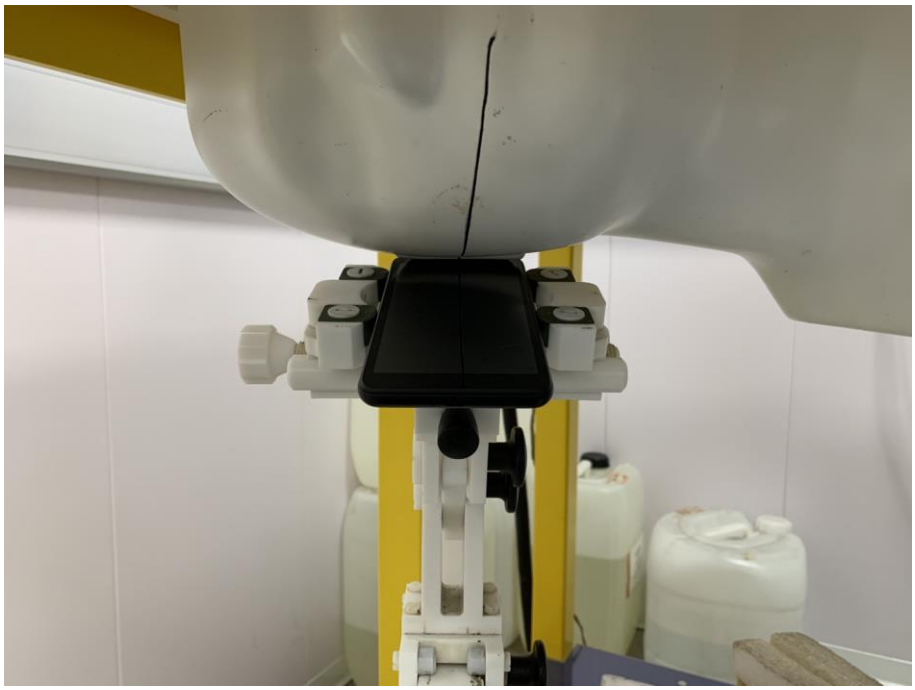
Annex D. Test Setup Photos

Head Exposure Conditions

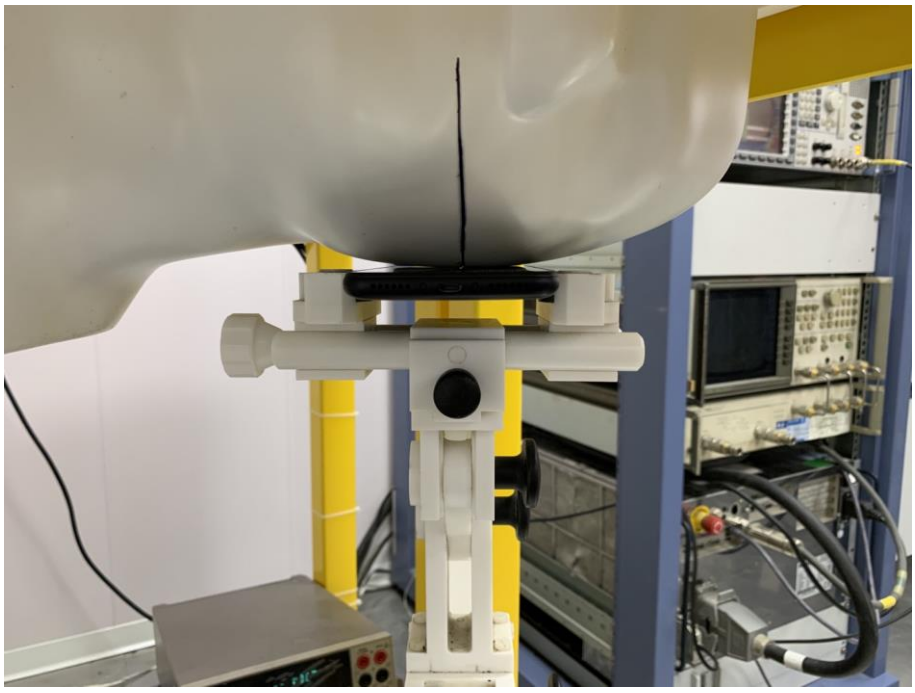
Right Cheek



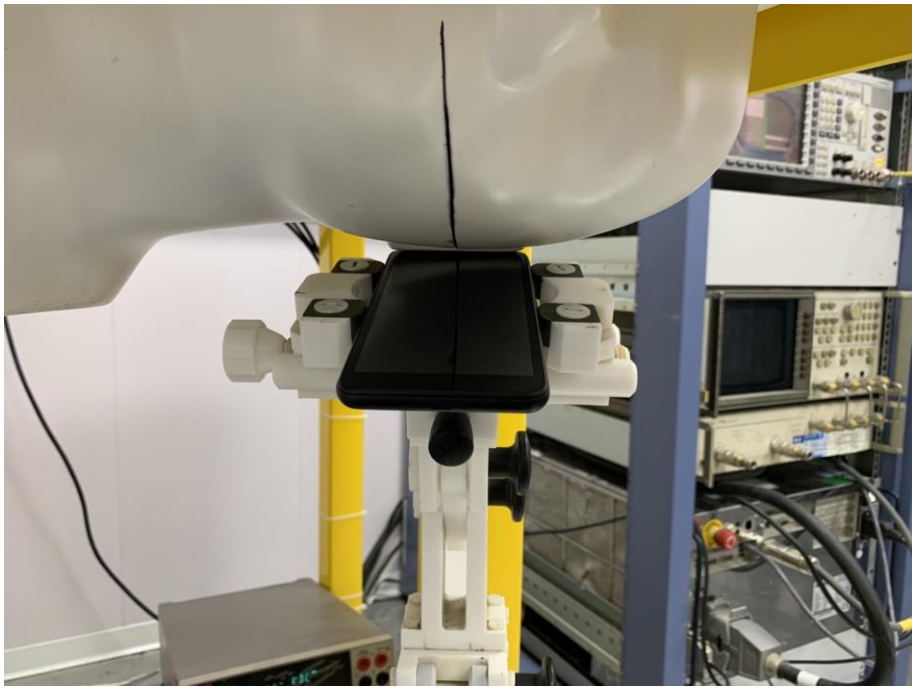
Tilt



Left Cheek

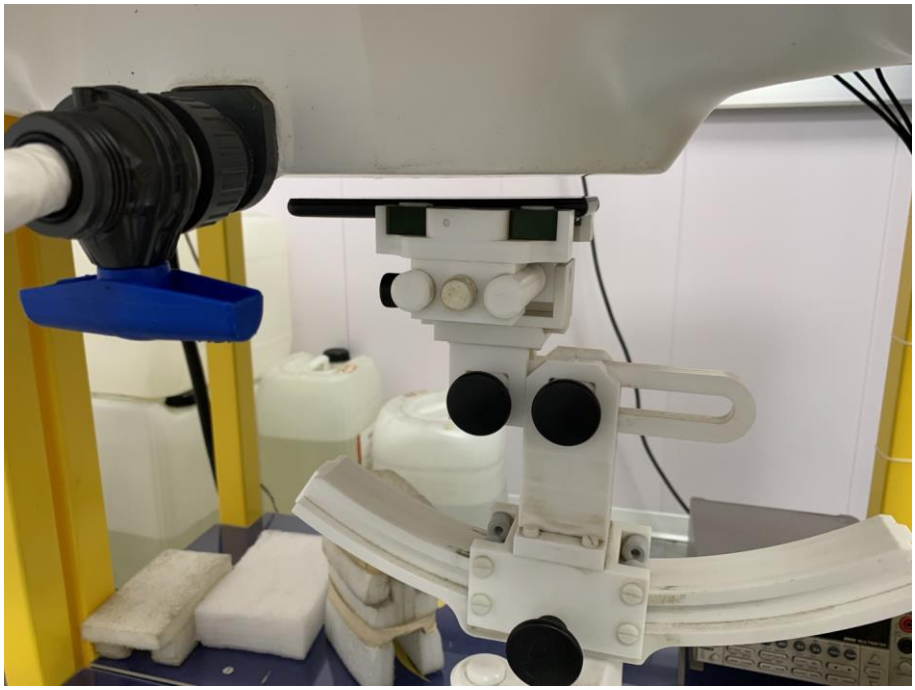


Tilt



Body mode Exposure Conditions
Test distance: 10mm

Body Front



Body Back