Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 132047	Channel 132322	Channel 132597
15MHz	QPSK	1	0	0	23.57	22.72	22.81
			37	0	23.54	22.93	22.85
			74	0	23.08	22.64	22.37
		38	0	1	22.55	21.96	22.02
			16	1	22.97	22.41	21.98
			35	1	22.07	21.94	21.70
		75	0	1	22.51	22.04	22.00
	16QAM	1	0	1	22.47	21.88	22.03
			37	1	22.55	22.02	21.98
			74	1	22.08	21.94	21.54
		38	0	2	22.65	21.96	22.02
			16	2	22.97	22.10	21.98
			35	2	22.07	21.94	21.70
		75	0	2	21.46	21.09	21.02
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 132072	Channel 132322	Channel 132572
20MHz	QPSK	1	0	0	23.45	22.89	23.04
			49	0	23.67	23.36	23.27
			99	0	22.93	23.03	22.37
		50	0	1	22.53	22.17	22.01
			25	1	22.54	22.18	22.00
			49	1	22.24	21.91	21.81
		100	0	1	22.36	22.00	21.89
	16QAM	1	0	1	22.53	21.95	22.64
			49	1	22.96	22.52	22.75
			99	1	22.18	22.10	21.94
		50	0	2	21.69	21.24	21.10
			25	2	21.60	21.24	21.10
			49	2	21.42	21.00	20.93
		100	0	2	21.51	21.07	20.97

Conducted Power of LTE Band 71(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 133147	Channel 133297	Channel 133447
5MHz	QPSK	1	0	0	22.86	23.12	23.16
			12	0	22.99	23.13	23.20
			24	0	22.77	23.20	23.03
		12	0	1	22.11	22.19	22.19
			6	1	21.99	22.10	22.29
			11	1	21.97	21.98	22.17
		25	0	1	21.99	22.11	22.13
	16QAM	1	0	1	21.83	22.10	22.28
			12	1	21.94	21.73	22.26
			24	1	21.84	22.32	21.84
		12	0	2	20.97	21.22	21.24
			6	2	20.98	21.23	21.08
			11	2	21.05	21.11	21.10
		25	0	2	21.08	21.15	21.20
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 133172	Channel 133297	Channel 133422
10MHz	QPSK	1	0	0	23.01	22.68	23.11
			24	0	23.05	23.08	23.22
			49	0	22.92	23.16	23.10
		25	0	1	22.12	22.15	22.30
			12	1	22.05	22.15	22.30
			25	1	21.91	22.10	22.18
		50	0	1	21.94	22.12	22.16
	16QAM	1	0	1	22.17	22.10	22.19
			24	1	22.29	21.91	22.56
			49	1	22.03	21.95	22.10
		25	0	2	21.09	21.14	21.43
			12	2	21.09	21.15	21.24
			25	2	20.97	21.31	21.22
		50	0	2	21.01	21.13	21.22

Conducted Power of LTE Band 71(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					133197	133297	133397
15MHz	QPSK	1	0	0	22.81	22.90	23.00
			37	0	22.86	22.93	23.19
			74	0	23.28	23.08	23.03
		38	0	1	21.85	22.03	22.41
			16	1	22.02	21.82	22.74
			35	1	22.35	22.14	22.12
		75	0	1	21.91	22.09	22.16
	16QAM	1	0	1	22.00	22.03	22.31
			37	1	21.98	21.82	22.74
			74	1	22.27	22.14	22.12
		38	0	2	21.84	22.03	22.41
			16	2	22.46	21.82	22.81
			35	2	22.36	22.14	22.12
		75	0	2	21.05	21.34	21.39
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					133222	133322	133372
20MHz	QPSK	1	0	0	22.94	22.83	23.10
			49	0	23.33	23.46	**23.63**
			99	0	23.11	23.08	23.00
		50	0	1	21.92	22.25	22.32
			25	1	21.91	22.26	22.32
			49	1	22.14	22.42	22.32
		100	0	1	22.02	22.27	22.24
	16QAM	1	0	1	21.85	22.26	22.61
			49	1	22.57	22.81	23.14
			99	1	22.18	22.15	22.58
		50	0	2	20.98	21.32	21.37
			25	2	20.97	21.32	21.41
			49	2	21.20	21.49	21.30
		100	0	2	21.09	21.32	21.40

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.
UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	＞5	＞4	＞8	＞12	＞16	＞18	≤1
16QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
16QAM	＞5	＞4	＞8	＞12	＞16	＞18	≤2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.3

Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.3.2	41	5	>6	≤1
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10 6.6.3.3.11	28 28	5, 10	Table 5.4.2-1	N/A
			5	≥ 2	≤ 1
NS_18			10, 15, 20	≥ 1	≤ 4
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
…					
NS_20	-	-	-	-	-

13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Face up SAR was performed with the device configured in the positions and Body SAR was performed with the device configured with all accessories close to the Flat Phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
   (1) When the original highest measured SAR is ≥0.8W/kg, repeat that measurement once.
   (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/kg.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
4. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
5. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
6. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
7. Per KDB 941125 D05v02r05. For QPSK with 100% RB allocation. SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.
8. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
9. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is >not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤1.45W/kg. Per KDB 941125 D05v02r05, smaller bandwidth SAR testing is not required.
10. When testing antennas with the default battery: the same test measurement with head part.

11. The EUT only contains the Testing antenna, Standard battery and default body-worn accessory specified by customer. The earphone is only for testing

13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15			Relative Humidity (%): 59.6						
Product: POC Radio									
Test Mode: WCDMA Band II with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	9400	1880	-0.08	**0.053**	22.70	22.69	**0.053**	1.6
Face up	RMC 12.2kbps	9400	1880	0.04	**0.083**	22.70	22.69	**0.083**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT									
Depth of Liquid (cm):>15			Relative Humidity (%): 58.2						
Product: POC Radio									
Test Mode: WCDMA Band IV with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	8662	1732.4	0.16	**0.203**	24.10	23.12	**0.254**	1.6
Face up	RMC 12.2kbps	8662	1732.4	-0.19	**0.146**	24.10	23.12	**0.183**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT									
Depth of Liquid (cm):>15			Relative Humidity (%): 57.1						
Product: POC Radio									
Test Mode: WCDMA Band V with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	RMC 12.2kbps	4183	836.4	0.08	**0.013**	23.60	22.92	**0.015**	1.6
Face up	RMC 12.2kbps	4183	836.4	-0.04	**0.011**	23.60	22.92	**0.013**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 59.6							
Product: POC Radio												
Test Mode: LTE Band 2												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	18900	1880	0.17	**0.076**	22.90	22.43	**0.085**	1.6
		Face up	1	0	18900	1880	-0.15	**0.130**	22.90	22.43	**0.145**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 58.2							
Product: POC Radio												
Test Mode: LTE Band 4												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	20175	1732.5	0.18	**0.330**	23.80	22.42	**0.453**	1.6
		Face up	1	0	20175	1732.5	0.08	**0.201**	23.80	22.42	**0.276**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 57.1							
Product: POC Radio												
Test Mode: LTE Band 5												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	20525	836.5	0.07	**0.018**	24.10	23.09	**0.023**	1.6
		Face up	1	0	20525	836.5	0.06	**0.010**	24.10	23.09	**0.013**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 59.7							
Product: POC Radio												
Test Mode: LTE Band 12												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23095	707.5	0.24	**0.277**	25.10	23.42	**0.408**	1.6
		Face up	1	0	23095	707.5	-0.19	**0.163**	25.10	23.42	**0.240**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 59.7							
Product: POC Radio												
Test Mode: LTE Band 13												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23230	782	-0.14	**0.273**	23.30	22.92	**0.298**	1.6
		Face up	1	0	23230	782	-0.09	**0.192**	23.30	22.92	**0.210**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 59.7							
Product: POC Radio												
Test Mode: LTE Band 14												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23330	793	-0.23	**0.173**	25.00	24.74	**0.184**	1.6
		Face up	1	0	23330	793	0.18	**0.135**	25.00	24.74	**0.143**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 58.2							
Product: LTE smartphone												
Test Mode: LTE Band 66												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	132422	1755	0.19	**0.104**	23.80	22.89	**0.128**	1.6
		Face up	1	0	132422	1755	-0.12	**0.168**	23.80	22.89	**0.207**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 59.7							
Product: LTE smartphone												
Test Mode: LTE Band 71												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	133322	683	-0.07	**0.286**	23.70	22.83	**0.349**	1.6
		Face up	1	0	133322	683	-0.11	**0.192**	23.70	22.83	**0.235**	1.6

Note:
• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

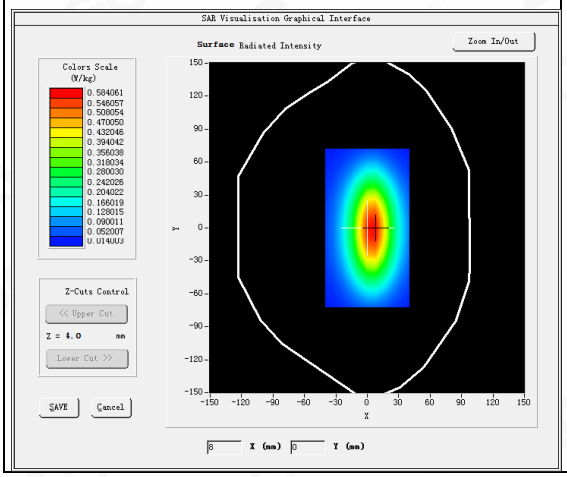
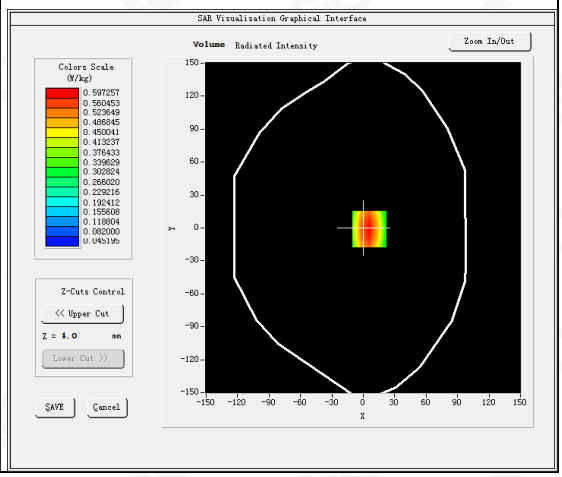
APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
System Check Head 750 MHz
DUT: Dipole 750 MHz Type: SID 750
Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=5.35
Frequency: 750 MHz; Medium parameters used: f = 750 MHz; σ=0.90mho/m; εr =42.09; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):22.1 Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

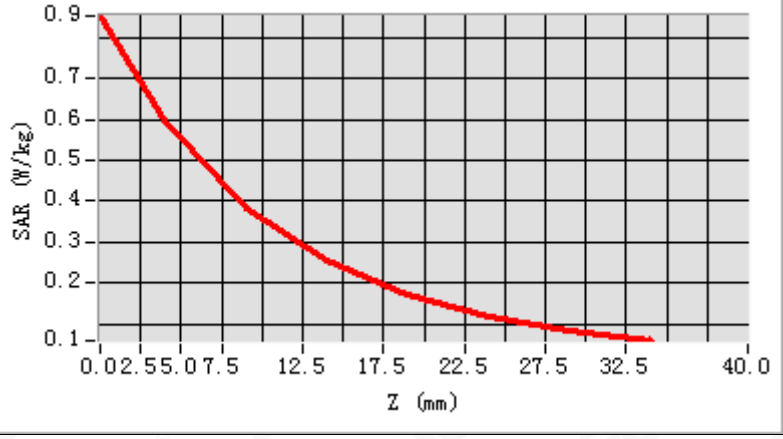
Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

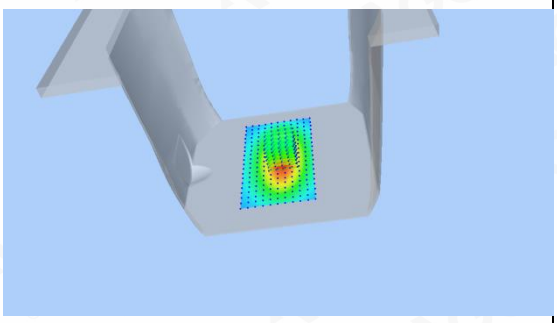
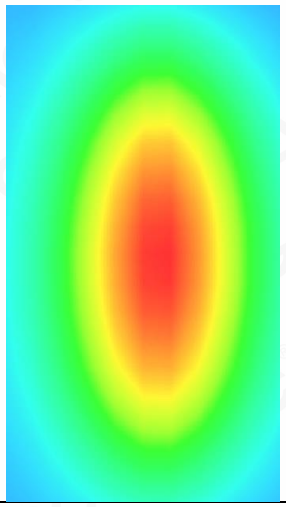
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=-1.00
SAR Peak: 0.85 W/kg

SAR 10g (W/Kg)	0.341834
SAR 1g (W/Kg)	0.551872

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8253	0.5643	0.3724	0.2428	0.1684	0.1128	0.0725



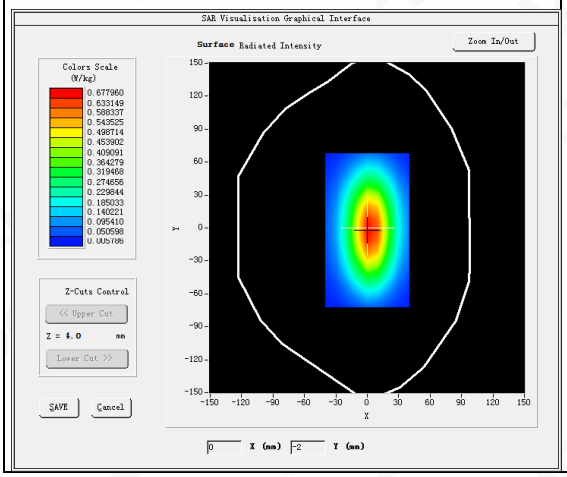
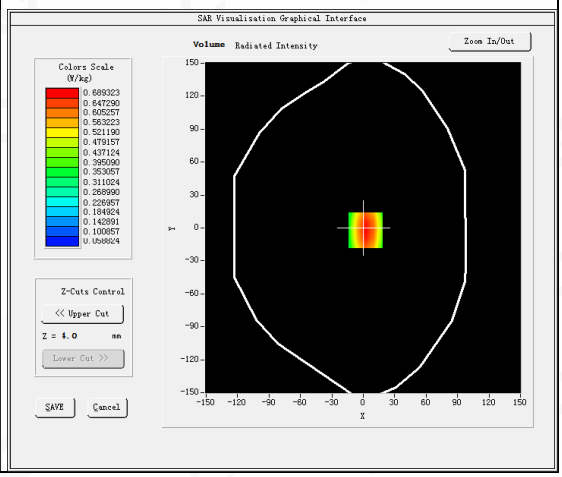
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 29, 2021**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.21
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.89 mho/m; εr =40.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):22.1, Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

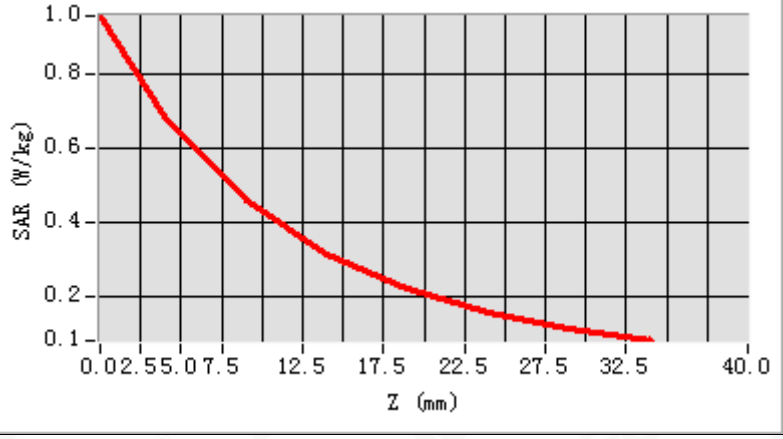
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

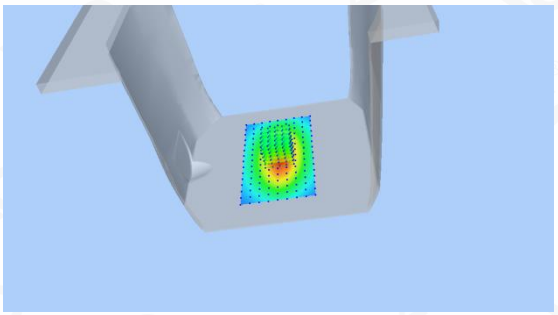
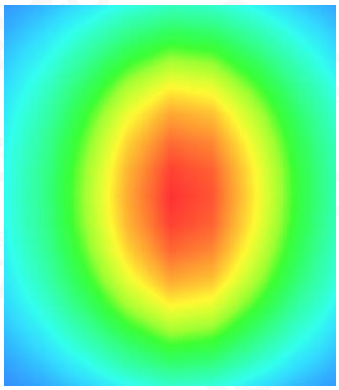
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-2.00
SAR Peak: 0.96 W/kg

SAR 10g (W/Kg)	0.402548
SAR 1g (W/Kg)	0.641857

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9643	0.6867	0.4572	0.3123	0.2269	0.1534	0.1071



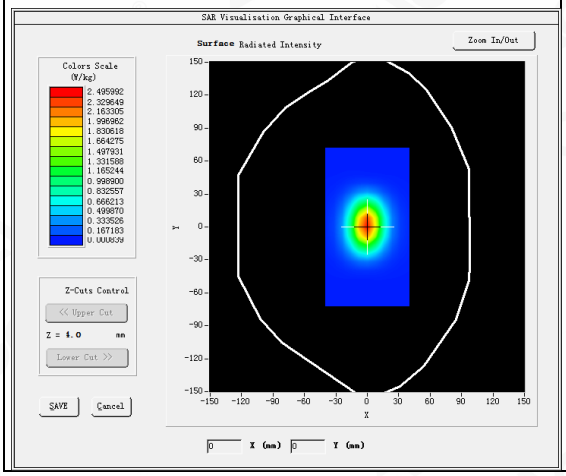
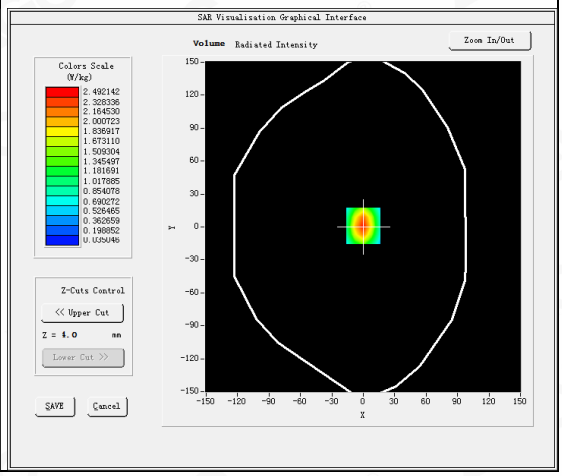
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 30, 2021**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=4.57
Frequency: 1750 MHz; Medium parameters used: f = 1750MHz; σ=1.35mho/m; εr =41.67; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.7, Liquid temperature (℃): 21.5

SATIMO Configuration:
Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

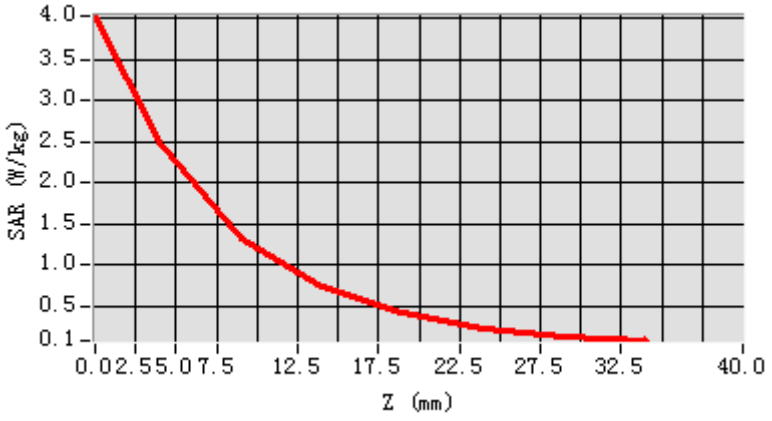
Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

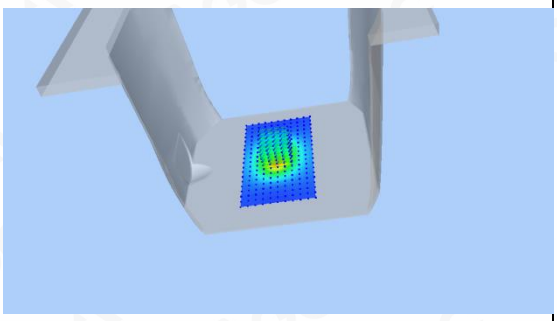
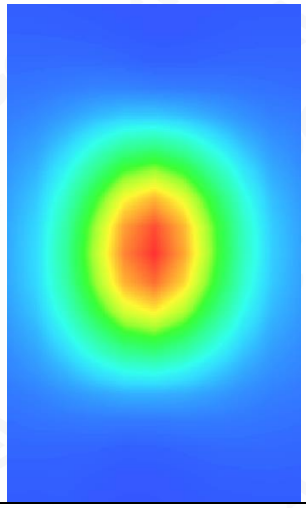
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=1.00
SAR Peak: 4.00 W/kg

SAR 10g (W/Kg)	1.181584
SAR 1g (W/Kg)	2.340352

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.0348	2.4921	1.3231	0.7355	0.4110	0.2337	0.1334



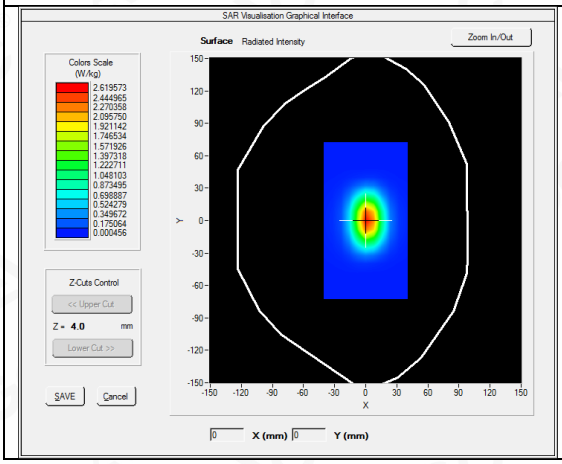
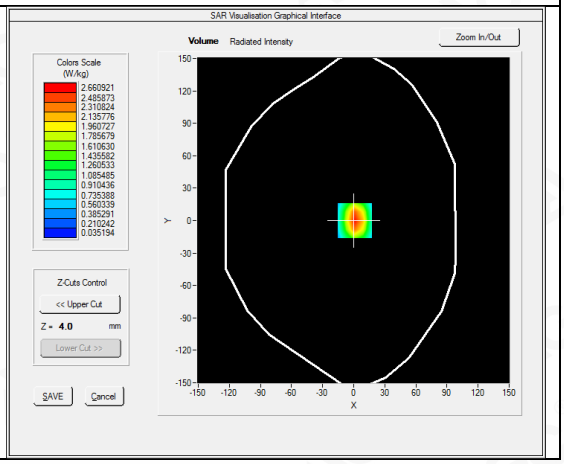
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 31, 2021**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.41
Frequency: 1900 MHz; Medium parameters used: f = 1800 MHz; σ=1.37mho/m; εr =39.72; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:
Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

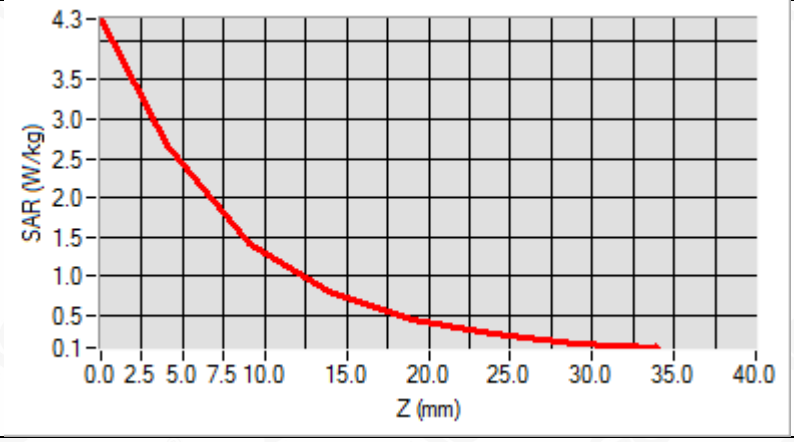
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

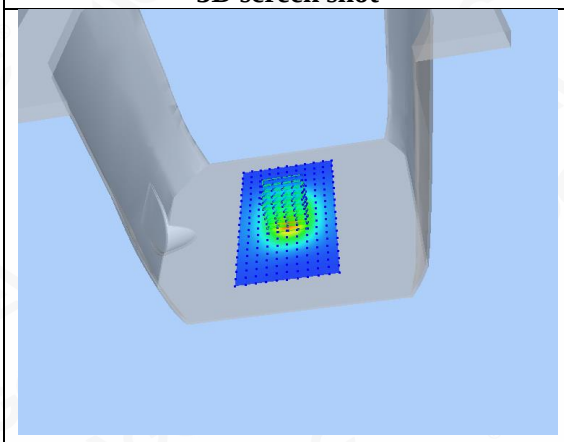
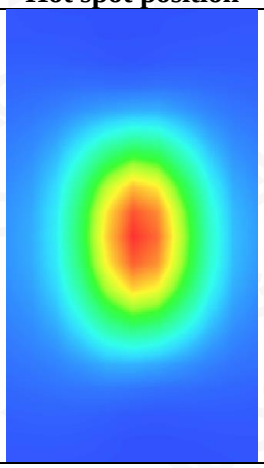
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00
SAR Peak: 4.27 W/kg

SAR 10g (W/Kg)	1.252485
SAR 1g (W/Kg)	2.508432

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.2729	2.6607	1.4215	0.8028	0.4483	0.2507	0.1452



3D screen shot	Hot spot position
	

APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab **Date: Oct. 31, 2021**
WCDMA Band II Mid- Body-Back (RMC 12.2kbps)
DUT: POC Radio; Type: IP-39S

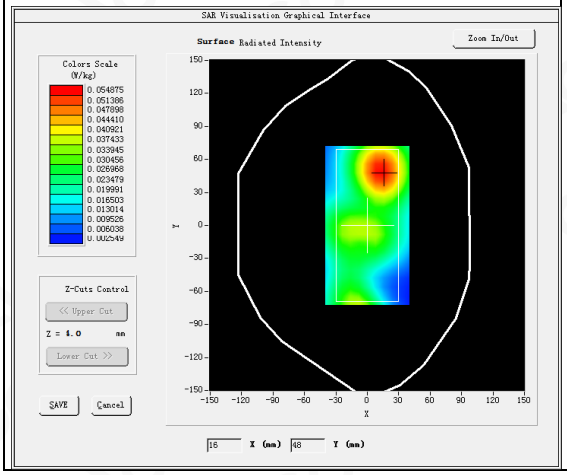
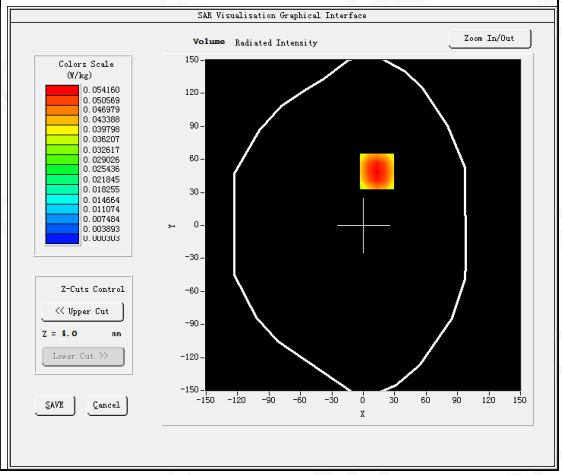
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.41; Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ=1.36mho/m; εr =39.98; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band II Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

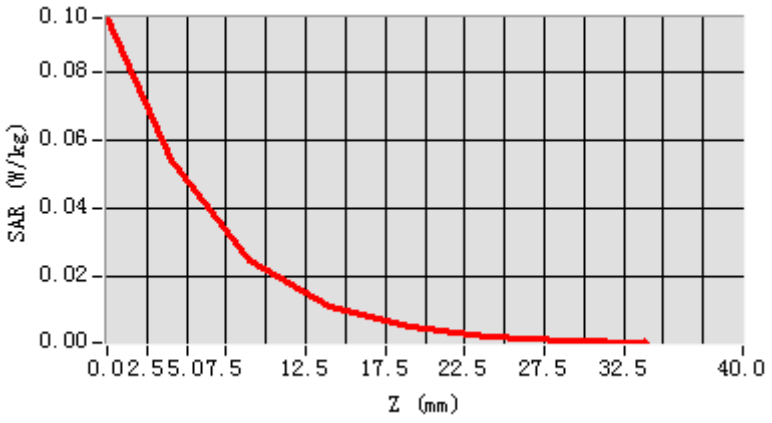
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

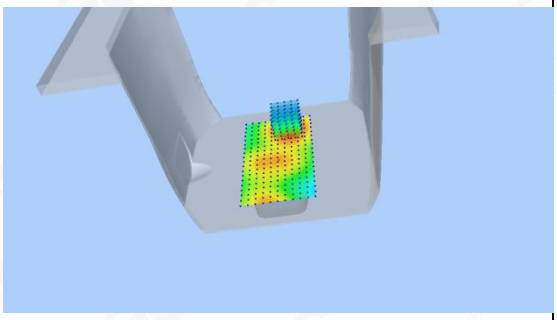
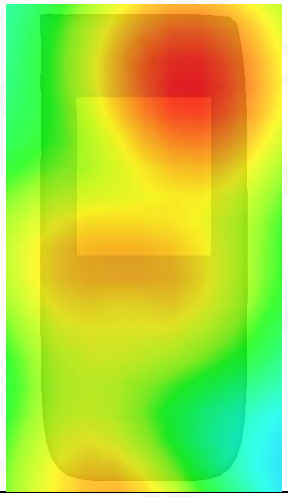
SURFACE SAR	VOLUME SAR
	

Maximum location: X=13.00, Y=49.00
SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.027193
SAR 1g (W/Kg)	0.053241

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0957	0.0542	0.0245	0.0113	0.0052	0.0022	0.0009



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 31, 2021**
WCDMA Band II Mid-Face up (RMC 12.2kbps)
DUT: POC Radio; Type: IP-39S

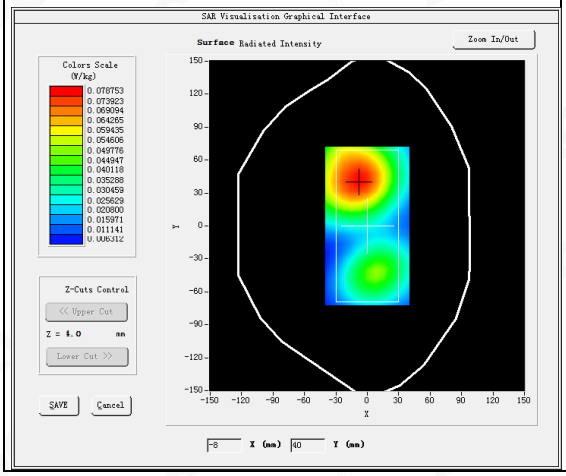
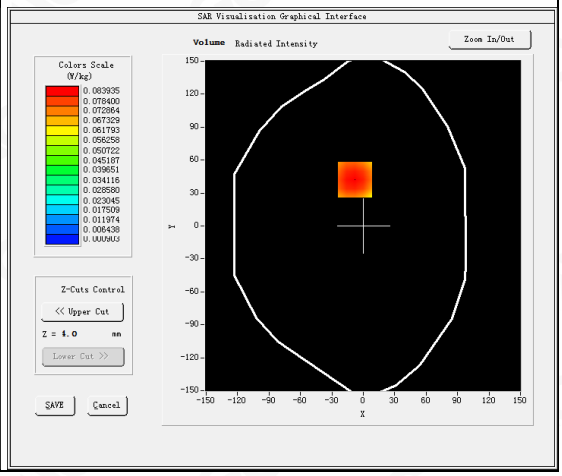
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.41;
Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ=1.36mho/m; εr =39.98; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band II Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

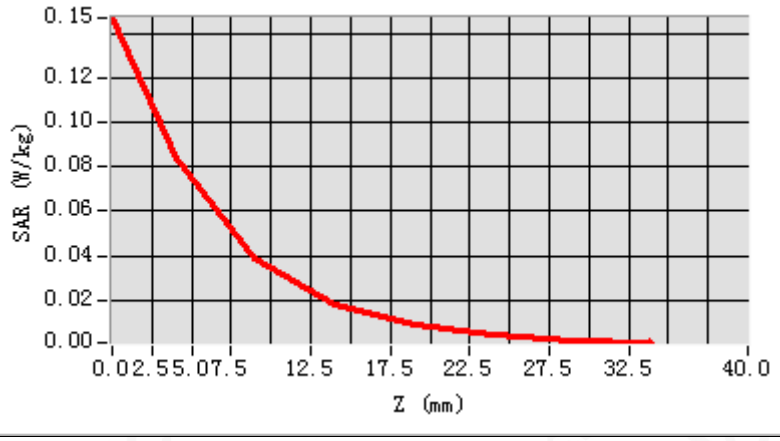
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Face up
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

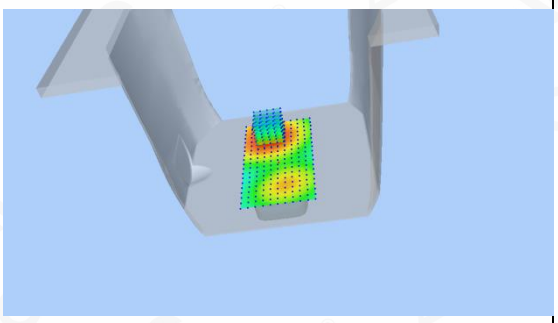
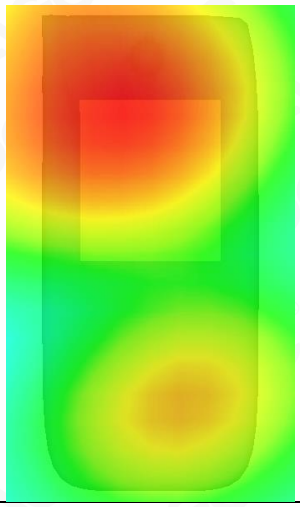
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-8.00, Y=42.00
SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.043909
SAR 1g (W/Kg)	0.082727

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1469	0.0839	0.0387	0.0181	0.0088	0.0041	0.0021



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 30, 2021**
WCDMA Band IV Mid- Body-Back (RMC 12.2kbps)
DUT: POC Radio; Type: IP-39S

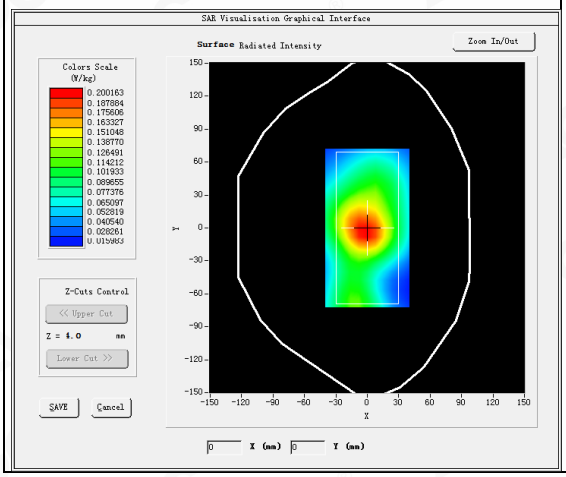
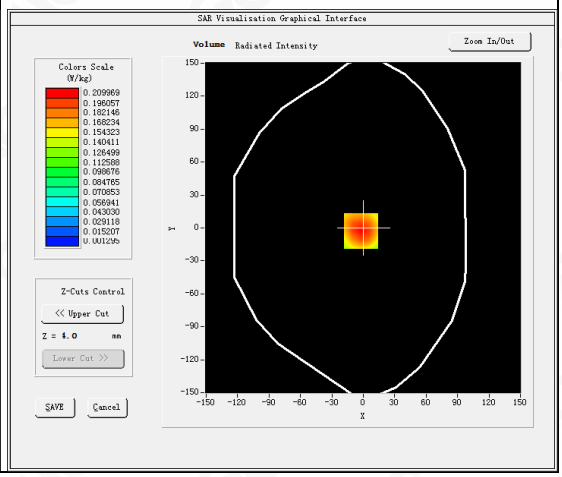
Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.57;
Frequency: 1732.4 MHz; Medium parameters used: f = 1750 MHz; σ=1.33 mho/m; εr =41.97; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.7, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band IV Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

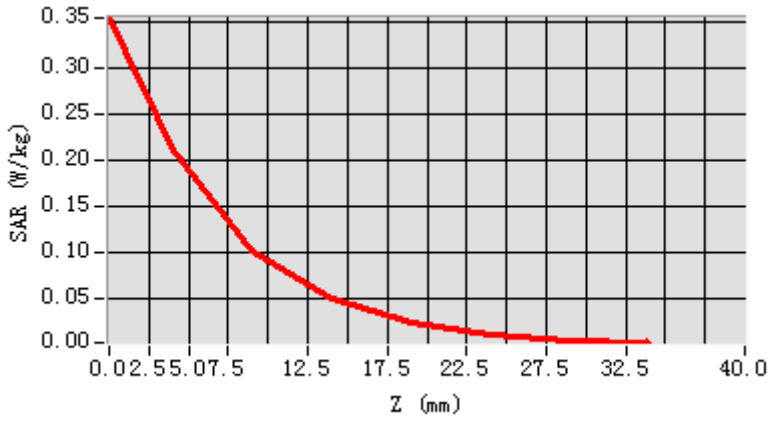
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

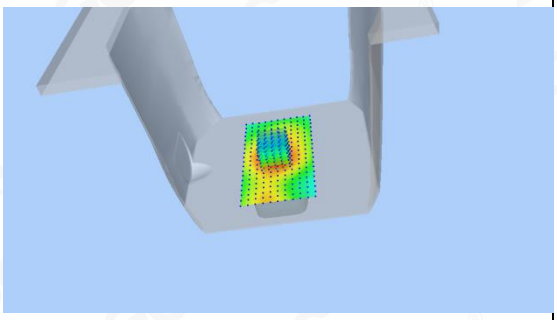
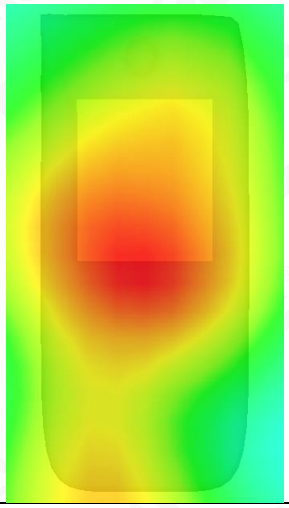
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=-3.00
SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.107430
SAR 1g (W/Kg)	0.203327

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3542	0.2100	0.1025	0.0508	0.0243	0.0117	0.0056



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 30, 2021**
WCDMA Band IV Mid-Face up (RMC 12.2kbps)
DUT: POC Radio; Type: IP-39S

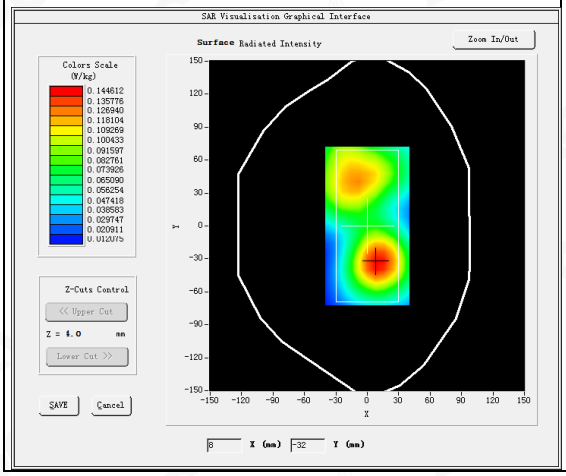
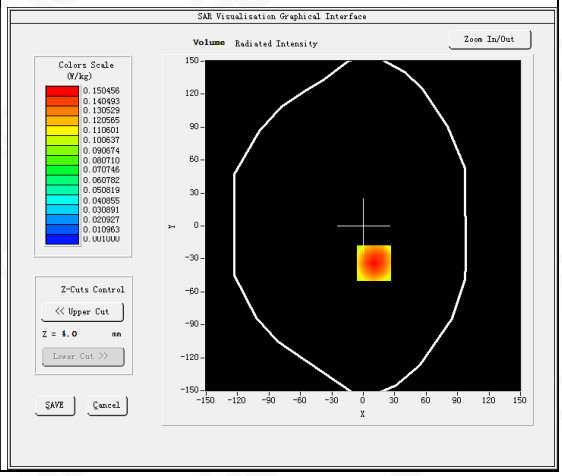
Communication System: UMTS; Communication System Band: Band IV UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.57;
Frequency: 1732.4 MHz; Medium parameters used: f = 1750 MHz; σ=1.33 mho/m; εr =41.97; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.7, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band IV Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

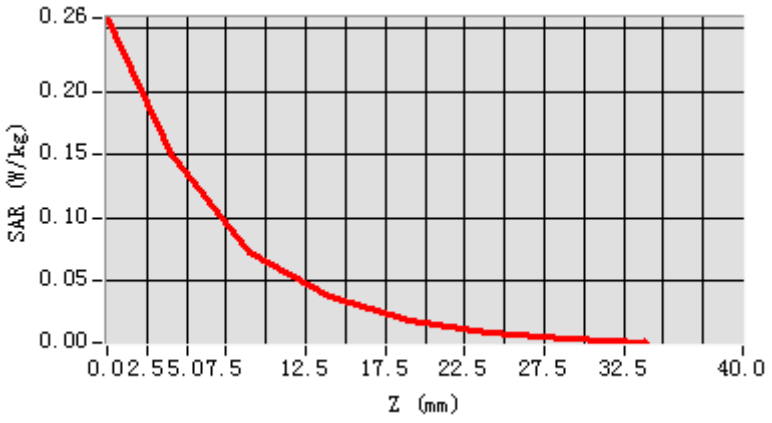
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Face up
Band	WCDMA Band IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

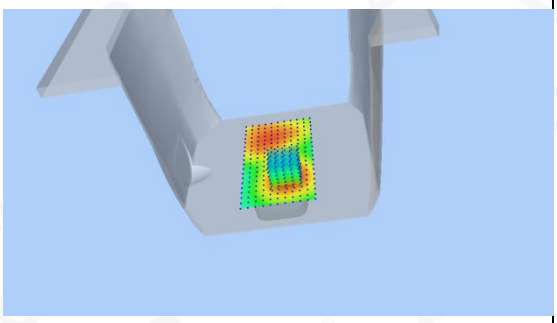
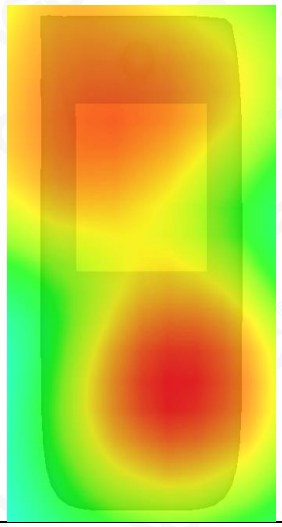
SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=-34.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.077708
SAR 1g (W/Kg)	0.146375

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2577	0.1505	0.0724	0.0384	0.0190	0.0095	0.0044



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 29, 2021**

WCDMA Band Ⅴ Mid- Body-Back (RMC)

DUT: POC Radio; Type: IP-39S

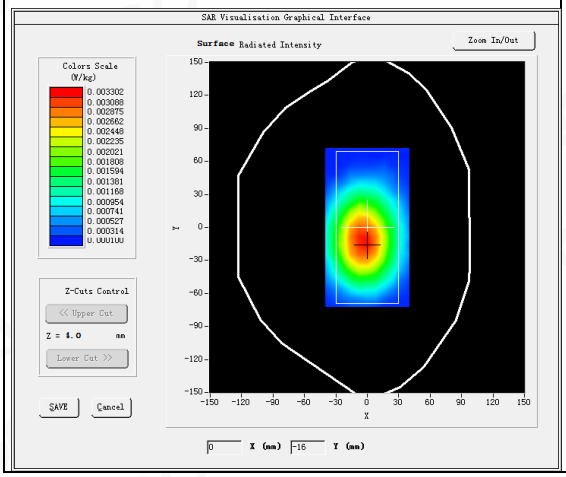
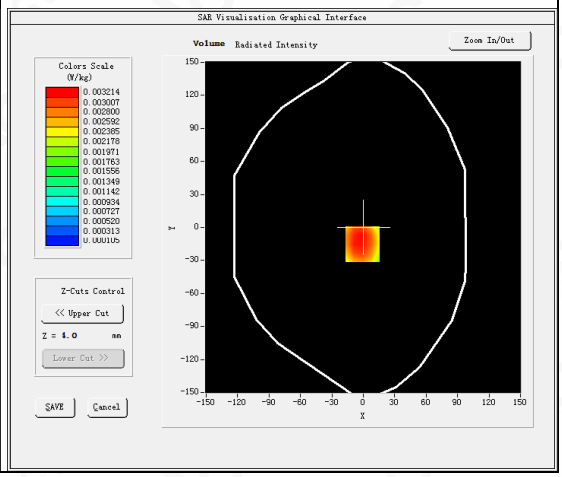
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.21;
Frequency: 836.4 MHz; Medium parameters used: f = 835MHz; σ= 0.90 mho/m; εr = 40.41; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1 Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

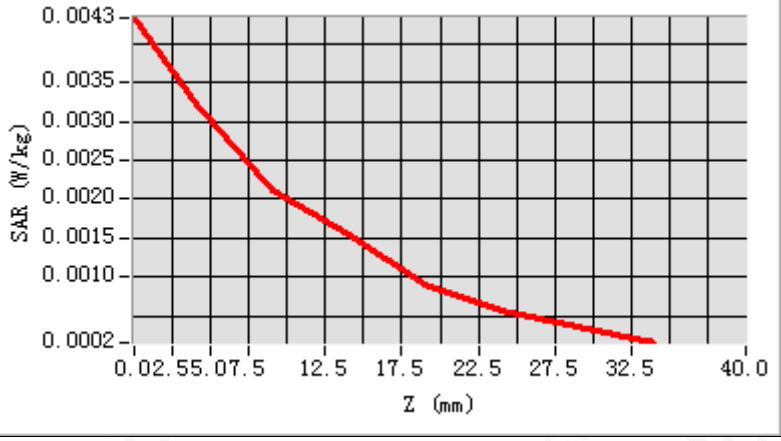
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

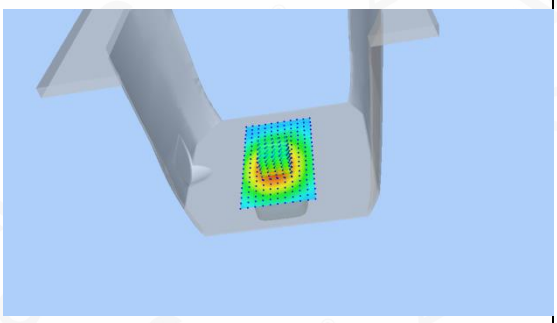
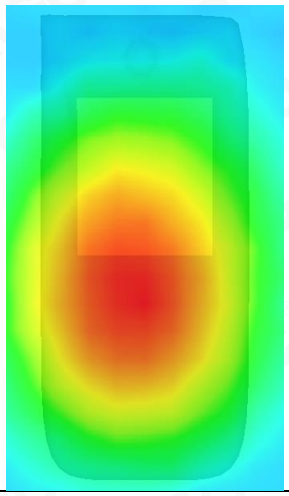
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=-15.00
SAR Peak: 0.00 W/kg

SAR 10g (W/Kg)	0.006057
SAR 1g (W/Kg)	0.013089

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0043	0.0032	0.0021	0.0016	0.0009	0.0006	0.0004



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 29, 2021**

WCDMA Band Ⅴ Mid- Face up (RMC)

DUT: POC Radio; Type: IP-39S

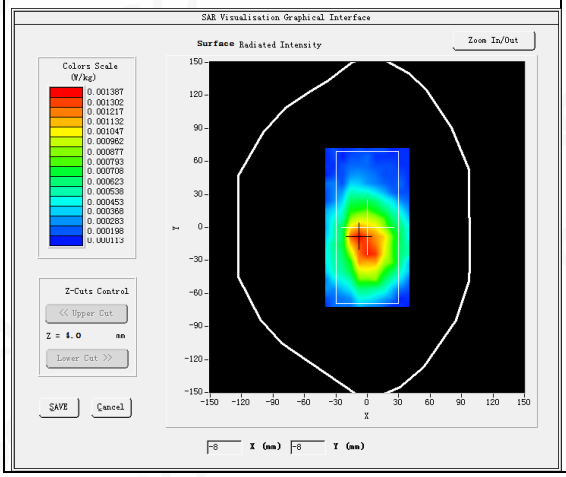
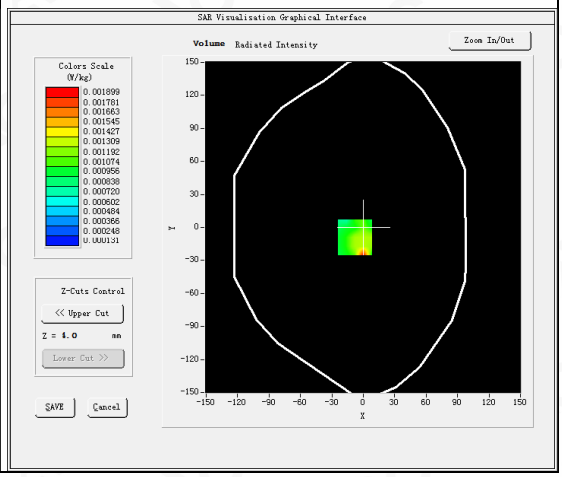
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.21; Frequency: 836.4 MHz; Medium parameters used: f = 835MHz; σ= 0.90 mho/m; εr = 40.41; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1; Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

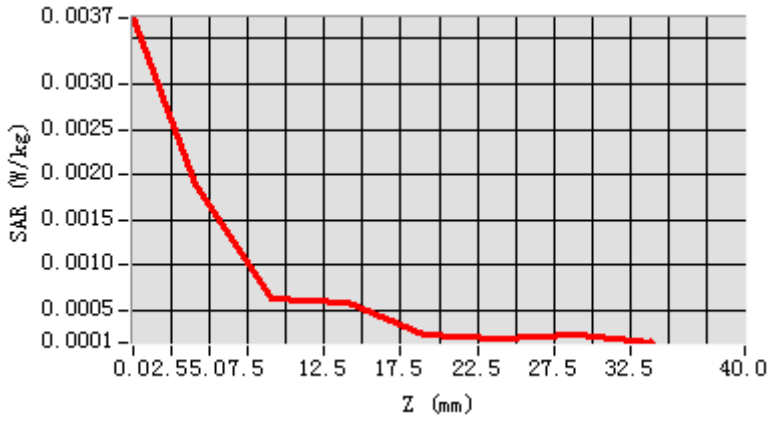
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Face up
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

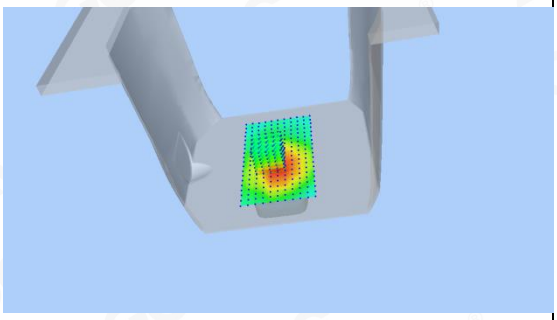
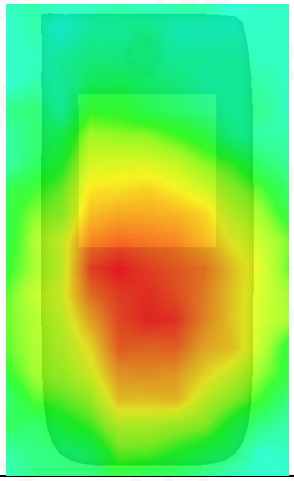
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-8.00, Y=-9.00
SAR Peak: 0.00 W/kg

SAR 10g (W/Kg)	0.005332
SAR 1g (W/Kg)	0.011412

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0037	0.0019	0.0006	0.0006	0.0002	0.0002	0.0002



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 31, 2021**
LTE Band 2 Mid-Body-Back (1 RB#0)
DUT: POC Radio; Type: IP-39S

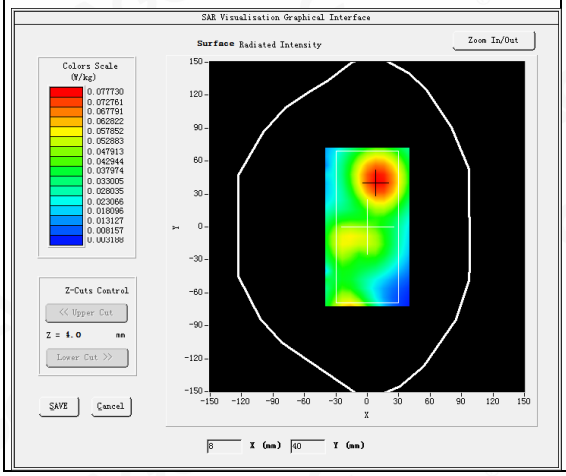
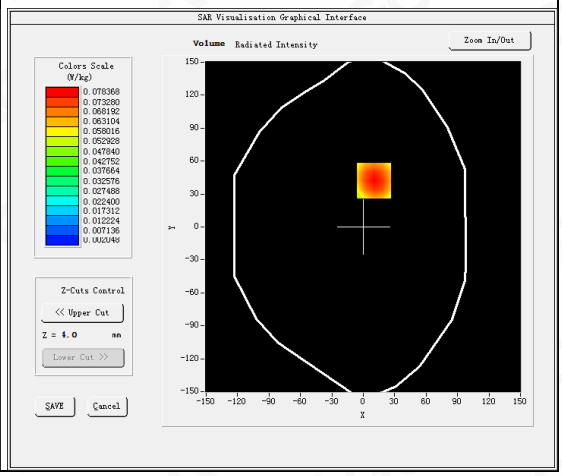
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=4.41; Frequency:1880MHz; Medium parameters used: f = 1800 MHz; σ= 1.36 mho/m; εr =39.98; ρ= 1000 kg/m^3 ; Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 2 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

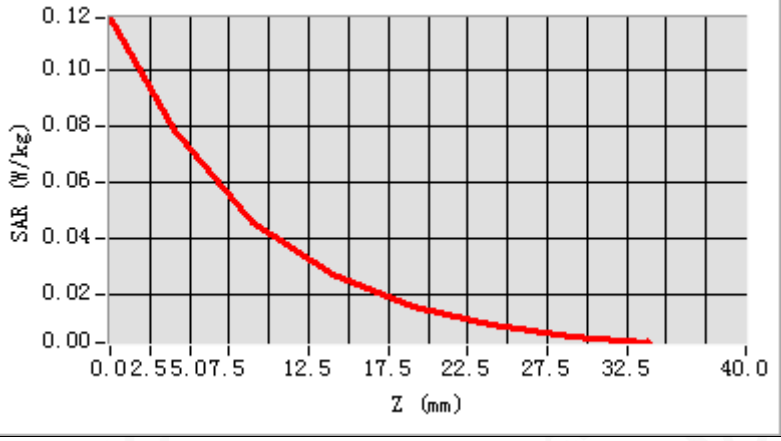
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

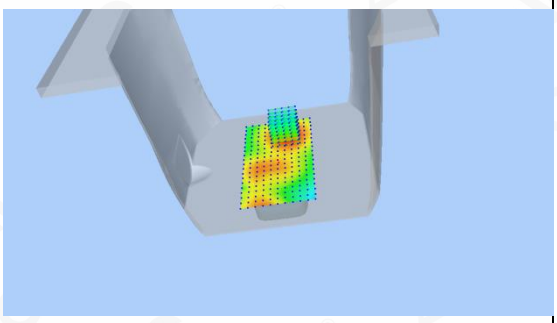
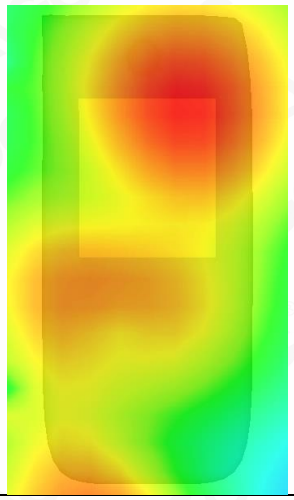
SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=42.00
SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.044991
SAR 1g (W/Kg)	0.075688

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1185	0.0784	0.0459	0.0274	0.0162	0.0096	0.0056



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 31, 2021**
LTE Band 2 Mid-Face up (1 RB#0)
DUT: POC Radio; Type: IP-39S

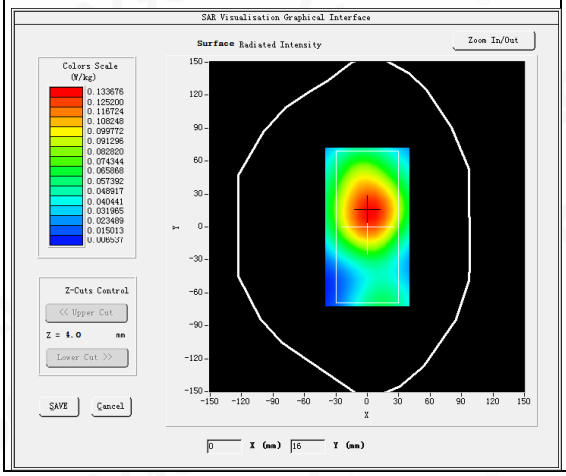
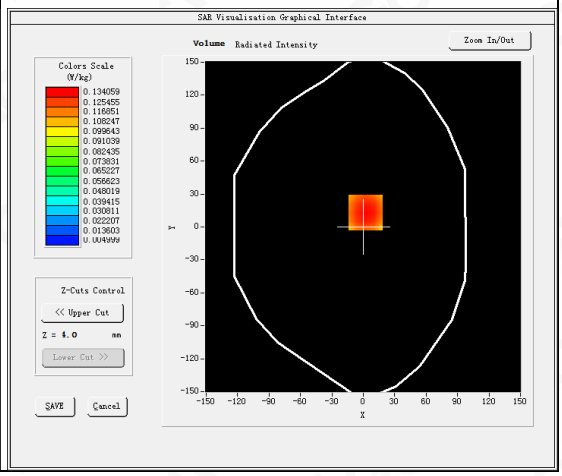
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=4.41; Frequency:1880MHz; Medium parameters used: f = 1800 MHz; σ= 1.36 mho/m; εr =39.98; ρ= 1000 kg/m^3 ; Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 2 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

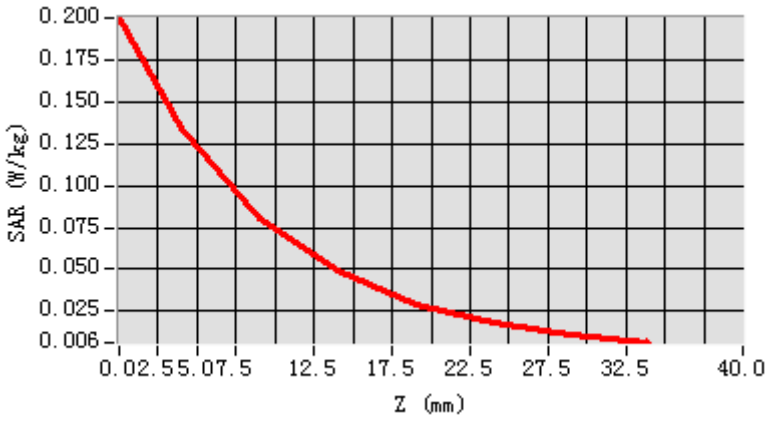
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

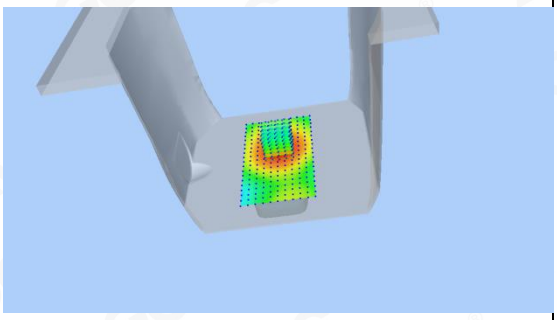
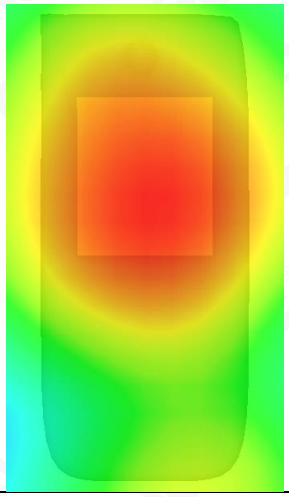
SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=2.00, Y=13.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.079581
SAR 1g (W/Kg)	0.129907

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1997	0.1341	0.0802	0.0489	0.0295	0.0179	0.0107



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 30, 2021**
LTE Band 4 Mid-Body-Back (1 RB#0)
DUT: POC Radio; Type: IP-39S

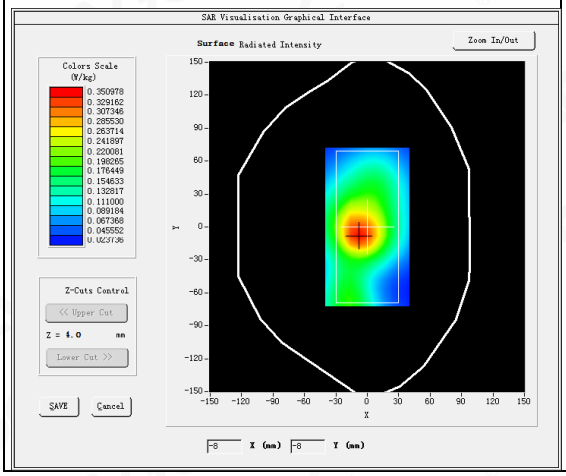
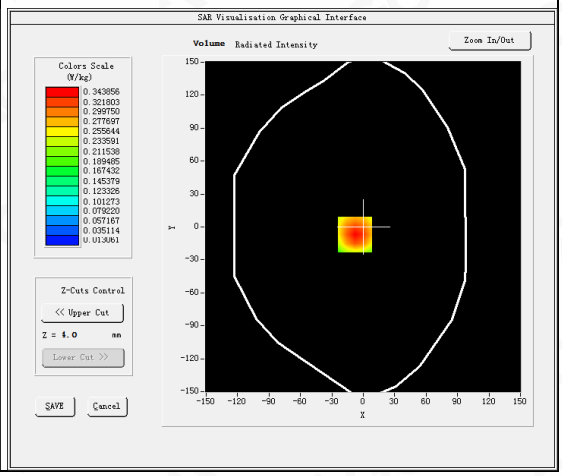
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=4.57; Frequency:1732.5 MHz; Medium parameters used: f = 1800 MHz; σ= 1.34 mho/m; εr =41.75; ρ= 1000 kg/m^3 ; Phantom section: Flat Section
Ambient temperature (℃): 21.7, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 4 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 4 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

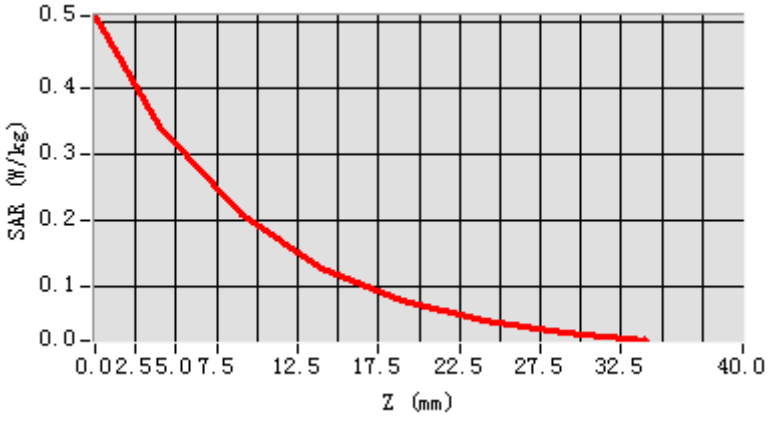
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 4
Channels	Mid
Signal	OFDM (Crest factor: 1.0)

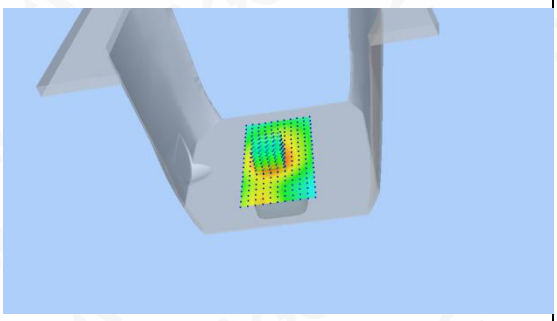
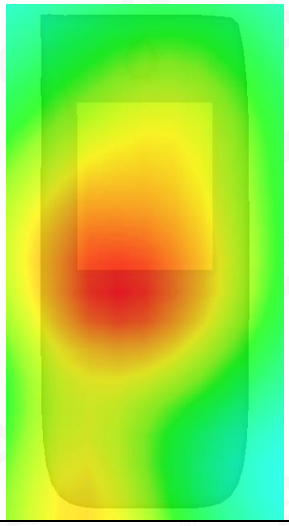
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-8.00, Y=-7.00
SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.197676
SAR 1g (W/Kg)	0.330111

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5085	0.3439	0.2091	0.1289	0.0813	0.0508	0.0319



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 30, 2021**
LTE Band 4 Mid-Face up (1 RB#0)
DUT: POC Radio; Type: IP-39S

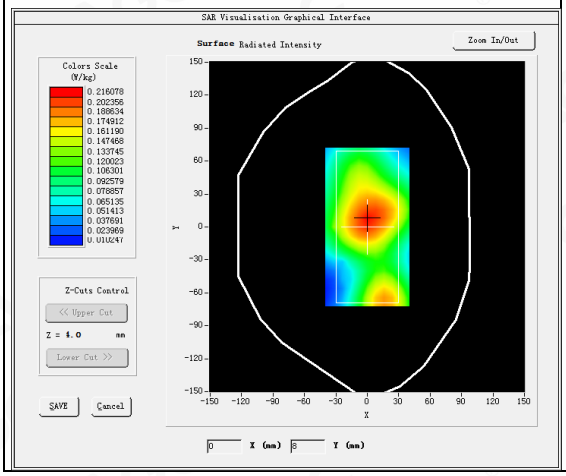
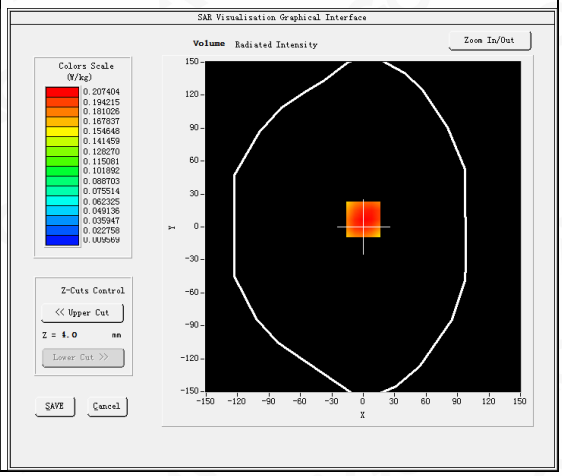
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=4.57;
Frequency:1732.5 MHz; Medium parameters used: f = 1800 MHz; σ= 1.34 mho/m; εr =41.75; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.7, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 4 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 4 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

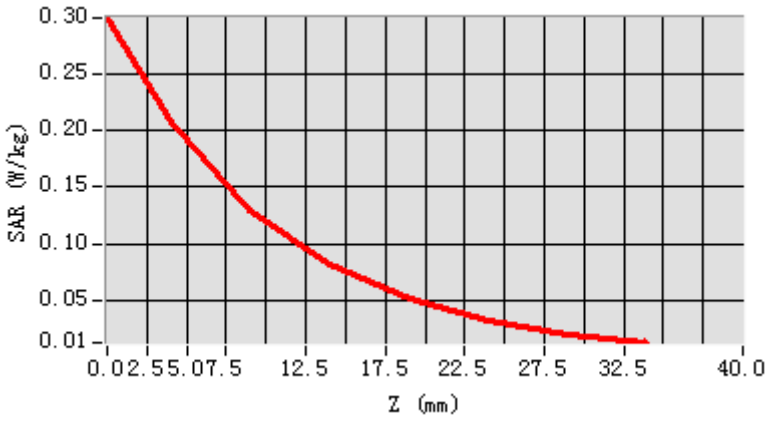
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

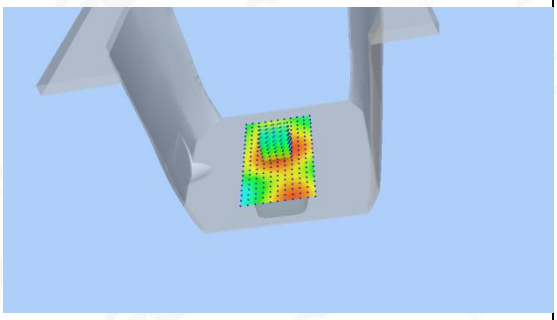
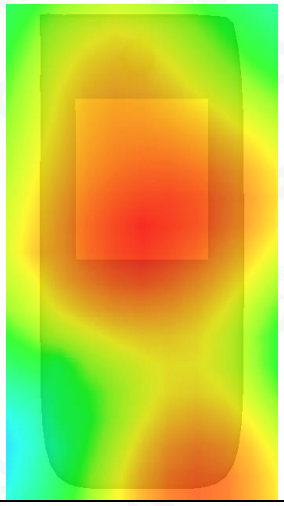
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=7.00
SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.126887
SAR 1g (W/Kg)	0.200710

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2988	0.2074	0.1301	0.0826	0.0522	0.0331	0.0208



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 29, 2021**
LTE Band 5 Mid-Body-Back (1 RB#0)
DUT: POC Radio; Type: IP-39S

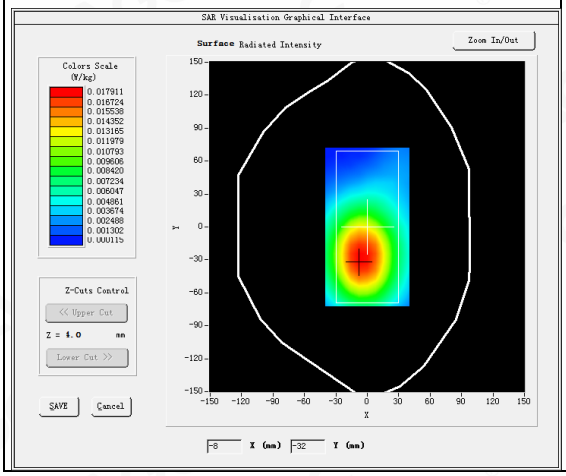
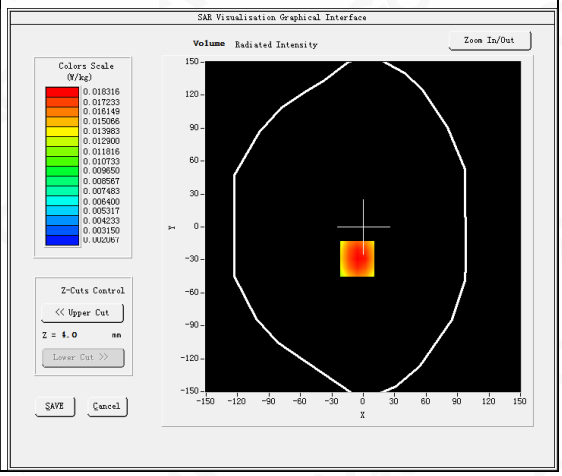
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=5.21
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.91mho/m; εr =40.05; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 5 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 5 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

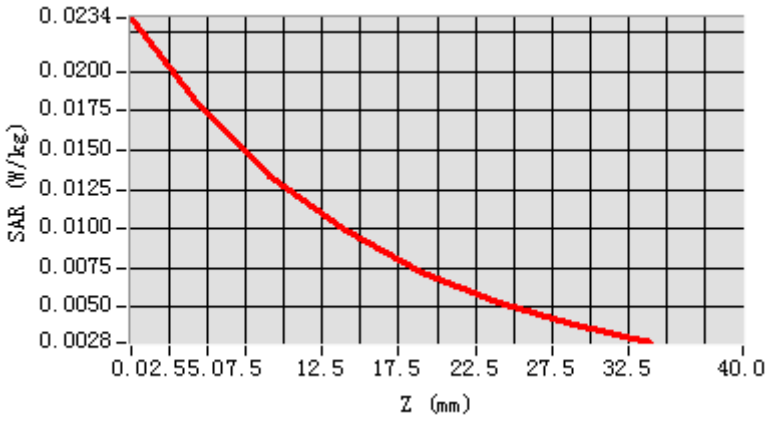
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

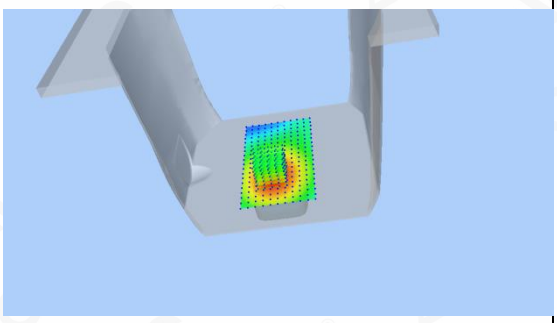
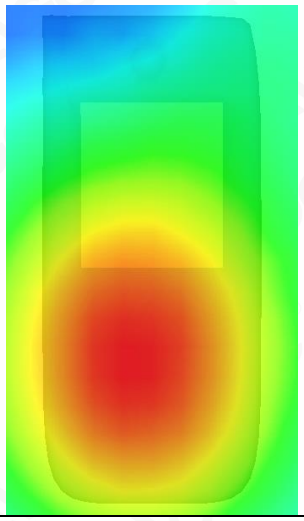
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-6.00, Y=-29.00
SAR Peak: 0.02 W/kg

SAR 10g (W/Kg)	0.012382
SAR 1g (W/Kg)	0.017713

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0234	0.0183	0.0134	0.0098	0.0072	0.0053	0.0039



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 29, 2021**
LTE Band 5 Mid-Face up (1 RB#0)
DUT: POC Radio; Type: IP-39S

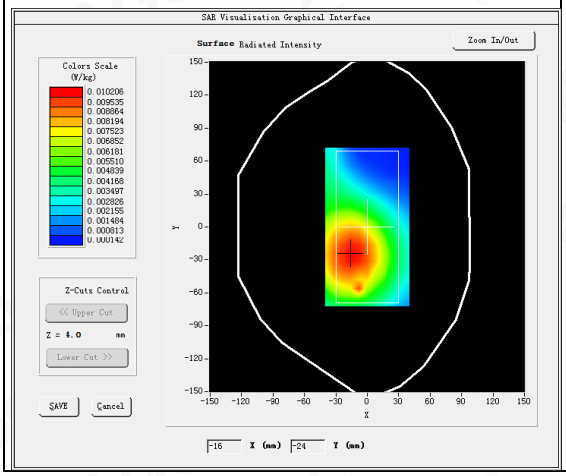
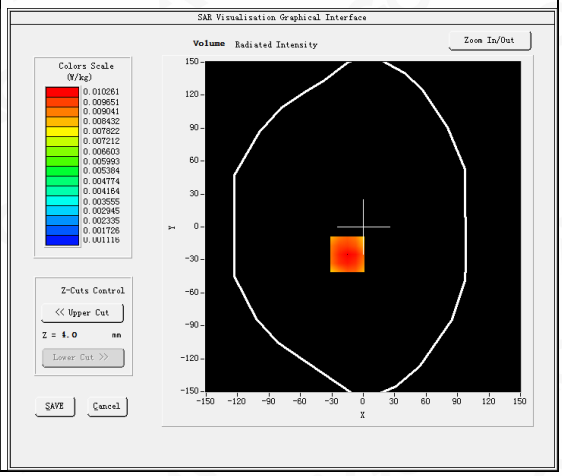
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=5.21
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.91mho/m; εr =40.05; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 5 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 5 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

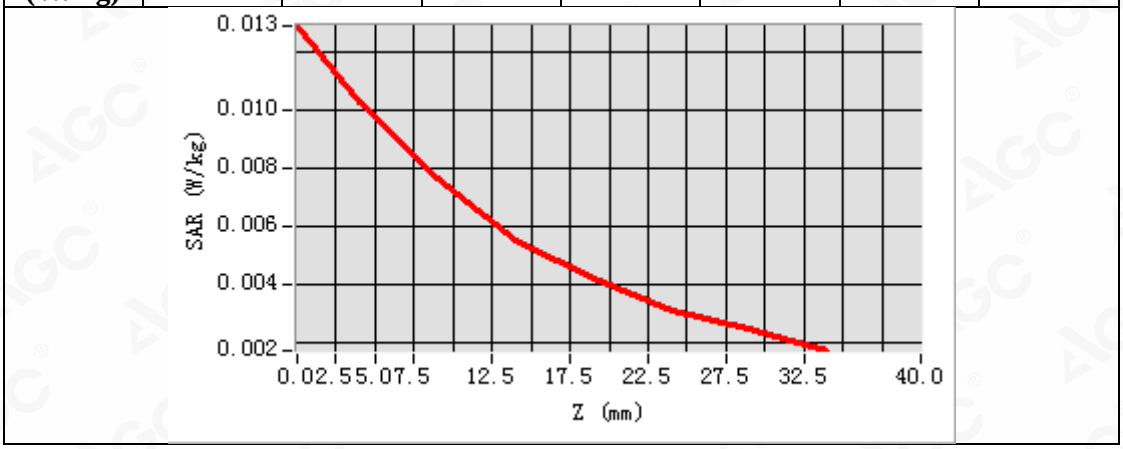
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

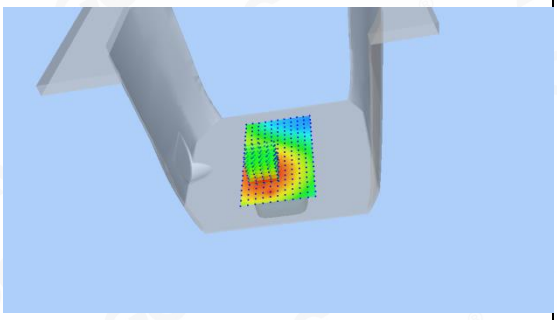
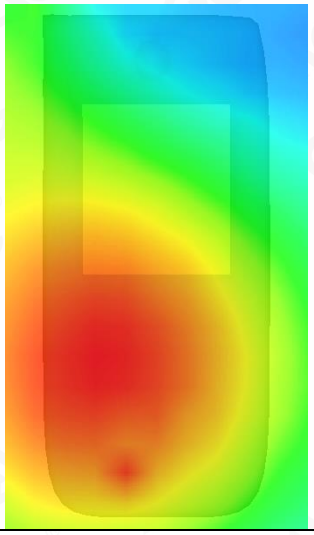
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-15.00, Y=-25.00
SAR Peak: 0.01 W/kg

SAR 10g (W/Kg)	0.007060
SAR 1g (W/Kg)	0.009964

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0129	0.0103	0.0076	0.0055	0.0042	0.0031	0.0024



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
LTE Band 12 Mid-Body-Back (1 RB#0)
DUT: POC Radio; Type: IP-39S

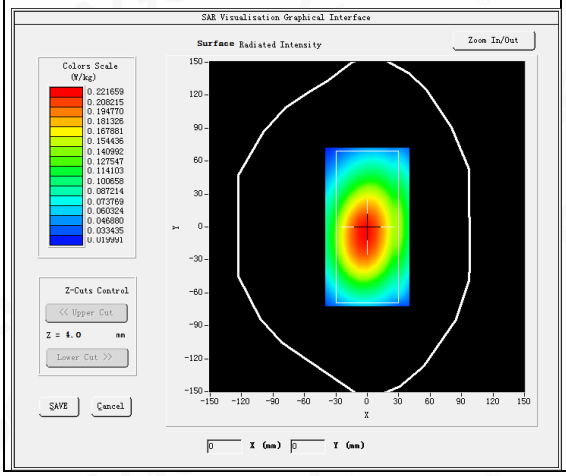
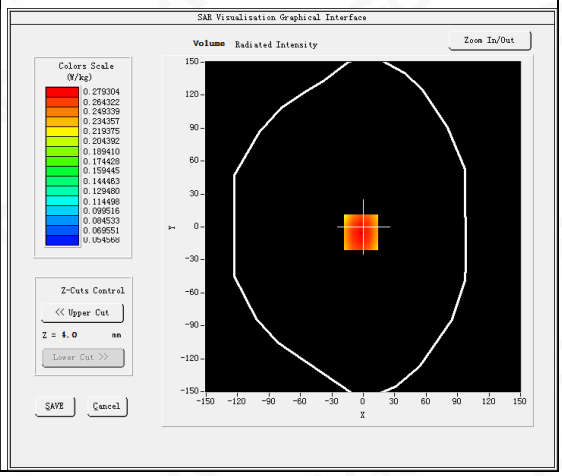
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=5.35;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.89 mho/m; εr =42.56; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1 Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 12 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 12 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

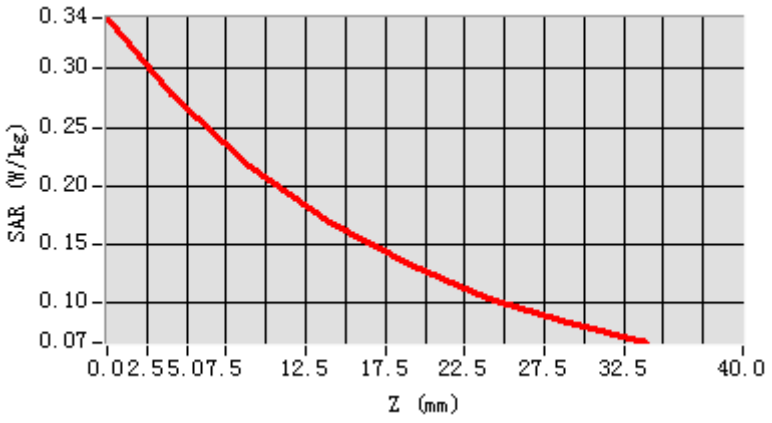
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

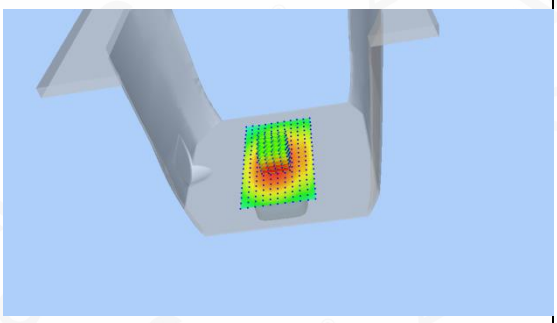
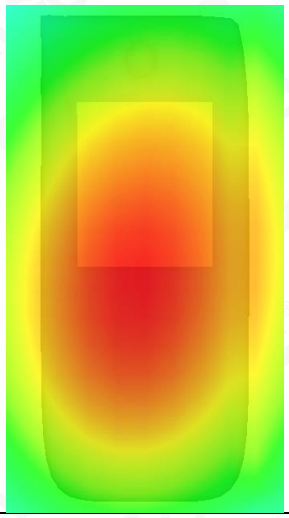
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=-5.00
SAR Peak: 0.35 W/kg

SAR 10g (W/Kg)	0.206266
SAR 1g (W/Kg)	0.276763

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3438	0.2793	0.2163	0.1689	0.1321	0.1038	0.0820



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
LTE Band 12 Mid-Face up (1 RB#0)
DUT: POC Radio; Type: IP-39S

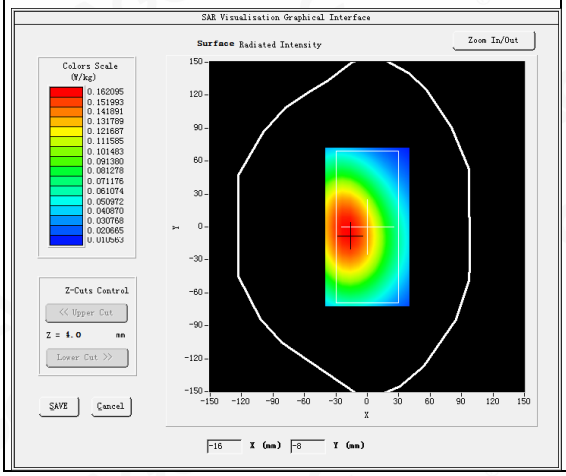
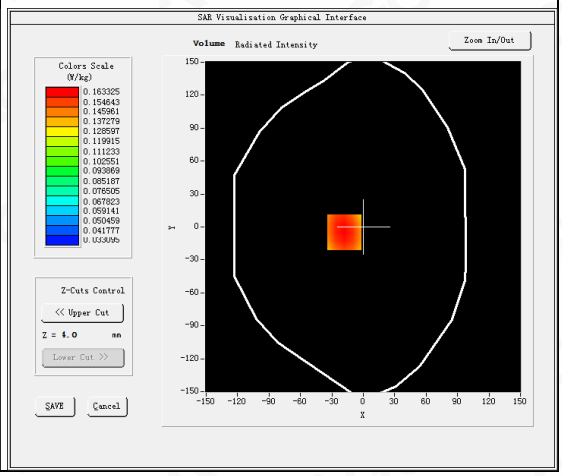
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=5.35;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.89mho/m; εr =42.56; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1 Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 12 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 12 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

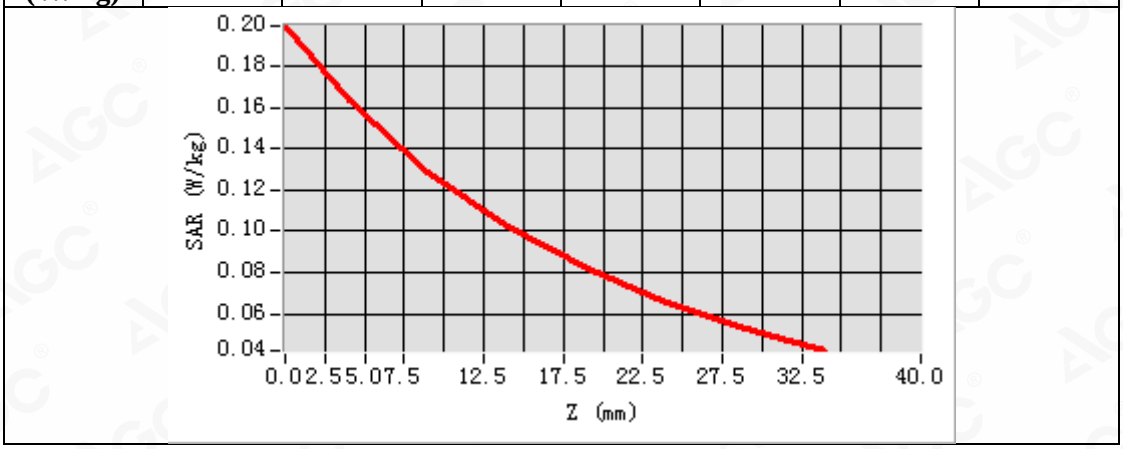
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

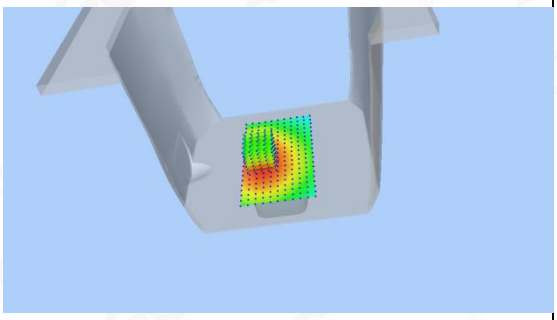
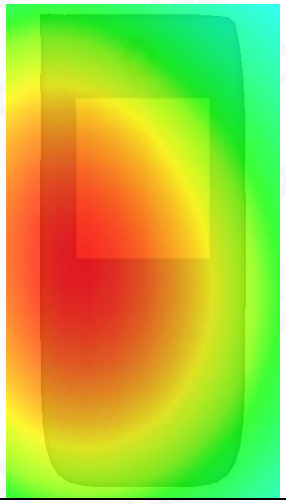
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-18.00, Y=-5.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.123656
SAR 1g (W/Kg)	0.162518

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1996	0.1633	0.1286	0.1028	0.0822	0.0659	0.0526



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
LTE Band 13 Mid-Body-Back (1 RB#0)
DUT: POC Radio; Type: IP-39S

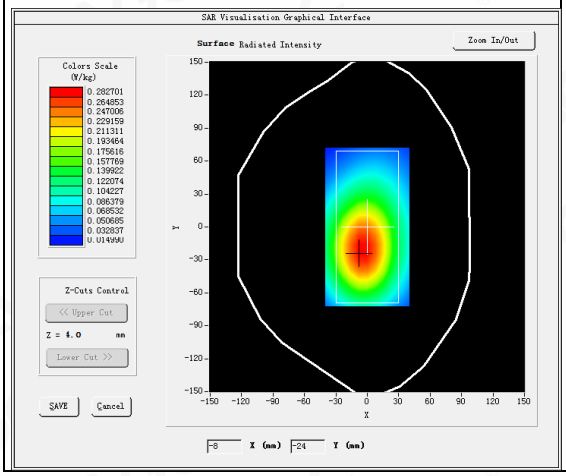
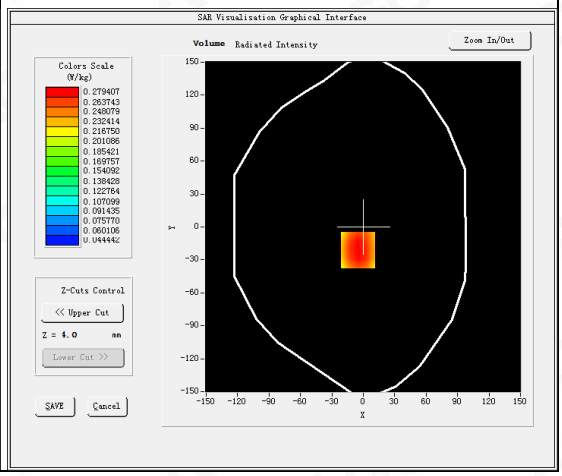
Communication System: LTE; Communication System Band: LTE Band 13; Duty Cycle:1:1; Conv.F=5.35;
Frequency: 782 MHz; Medium parameters used: f = 750 MHz; σ=0.91mho/m; εr =41.84; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1 Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 13 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 13 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

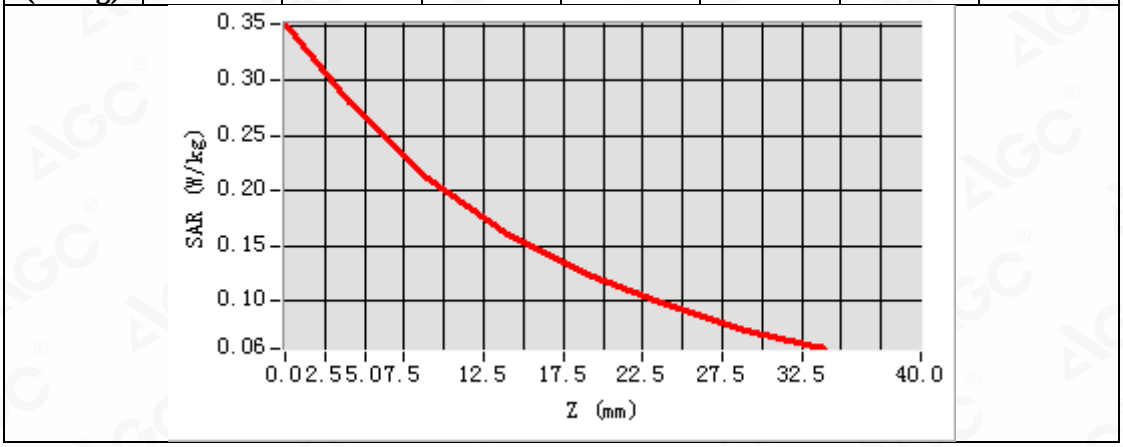
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 13
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

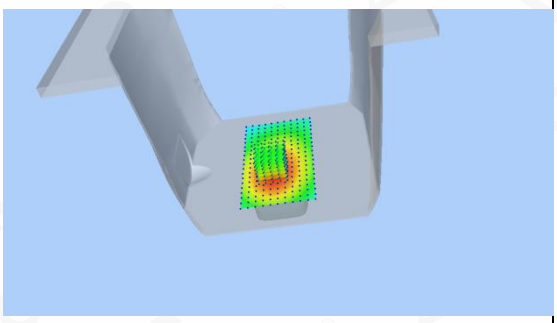
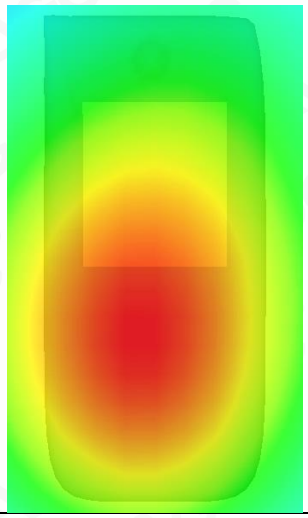
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-5.00, Y=-21.00
SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.197567
SAR 1g (W/Kg)	0.272883

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3510	0.2794	0.2117	0.1613	0.1234	0.0965	0.0730



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
LTE Band 13 Mid-Face up (1 RB#0)
DUT: POC Radio; Type: IP-39S

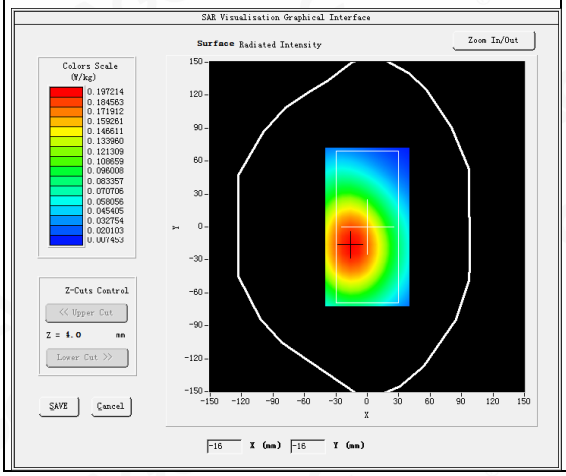
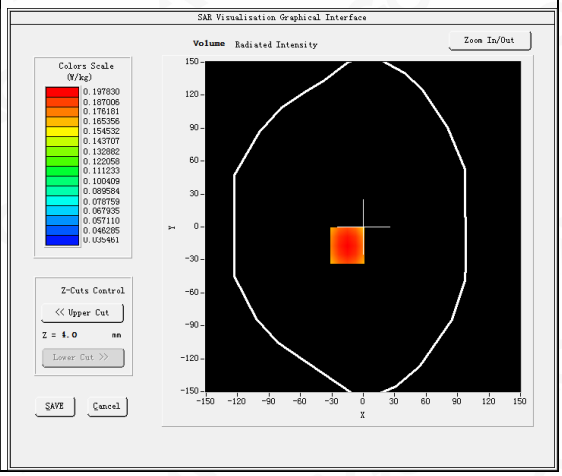
Communication System: LTE; Communication System Band: LTE Band 13; Duty Cycle:1:1; Conv.F=5.35;
Frequency: 782 MHz; Medium parameters used: f = 750 MHz; σ=0.91 mho/m; εr =41.84; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1 Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 13 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 13 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

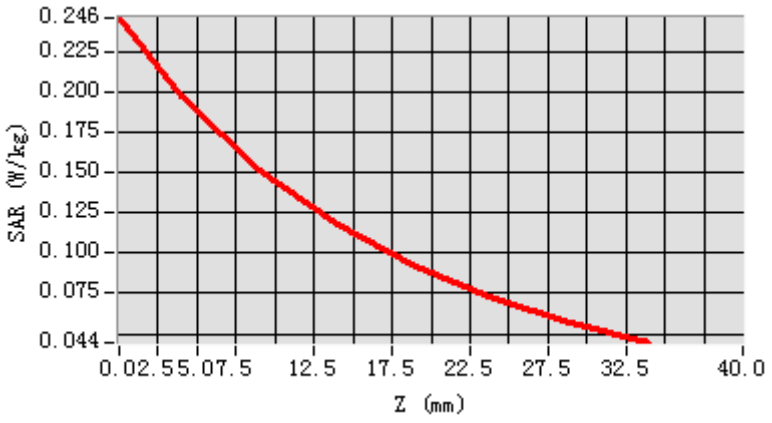
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 13
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

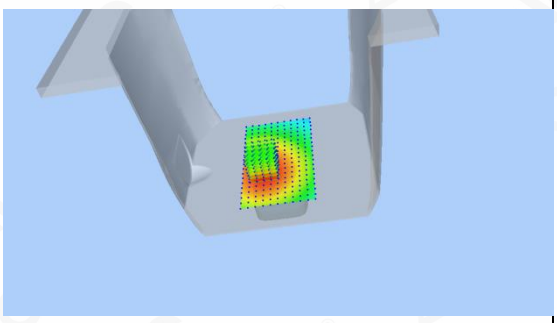
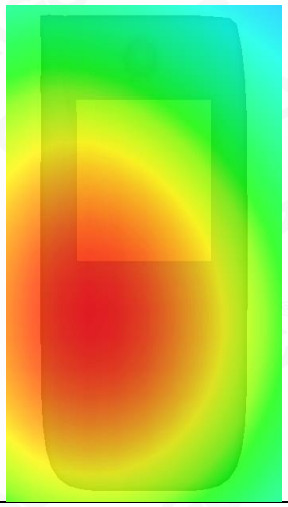
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-15.00, Y=-17.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.143420
SAR 1g (W/Kg)	0.192165

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2457	0.1978	0.1516	0.1177	0.0917	0.0719	0.0568



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
LTE Band 14 Mid-Body-Back (1 RB#0)
DUT: POC Radio; Type: IP-39S

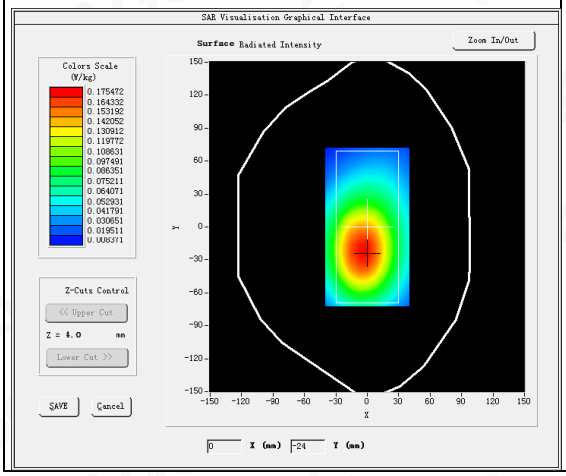
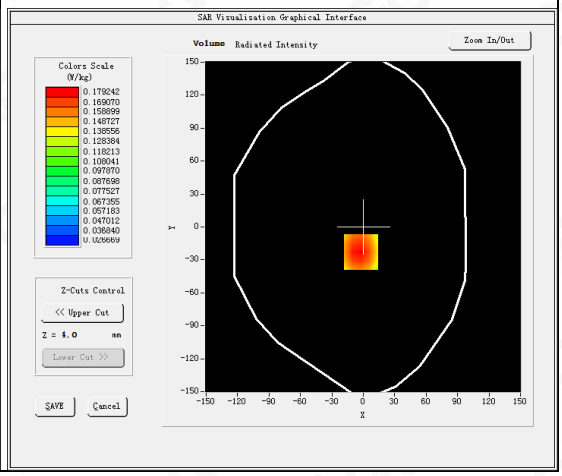
Communication System: LTE; Communication System Band: LTE Band 14; Duty Cycle:1:1; Conv.F=5.35;
Frequency: 793 MHz; Medium parameters used: f = 750 MHz; σ=0.92 mho/m; εr =41.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1 Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 14 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 14 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

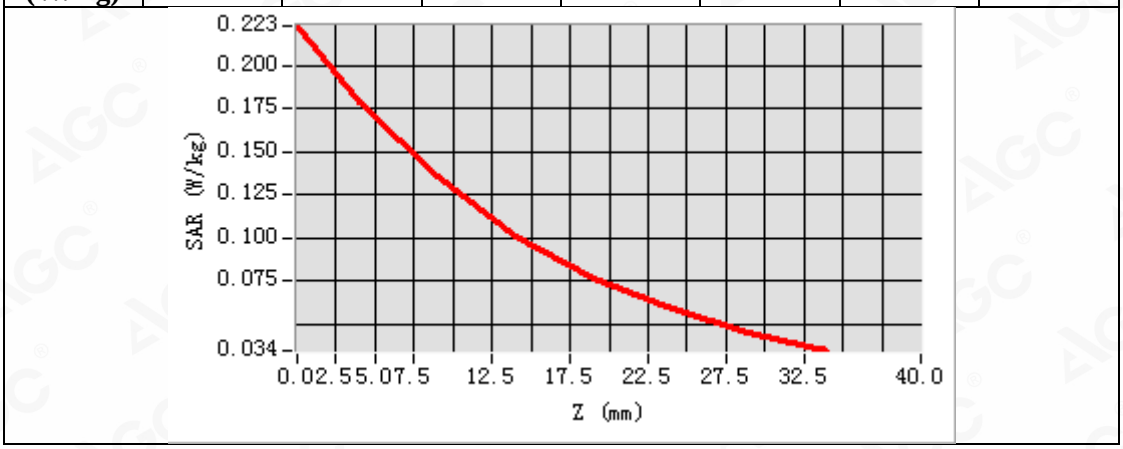
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 14
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

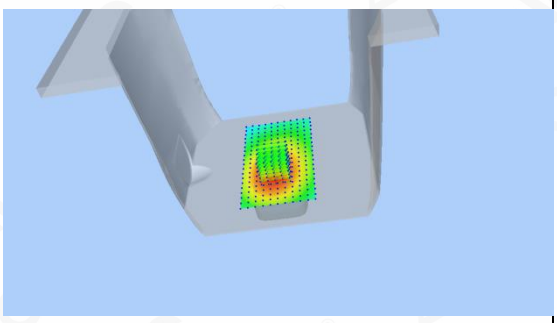
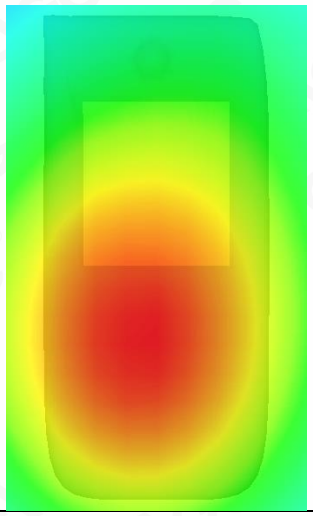
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=-23.00
SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.124541
SAR 1g (W/Kg)	0.173200

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2230	0.1792	0.1355	0.1004	0.0761	0.0591	0.0449



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Nov. 01, 2021**
LTE Band 14 Mid-Face up (1 RB#0)
DUT: POC Radio; Type: IP-39S

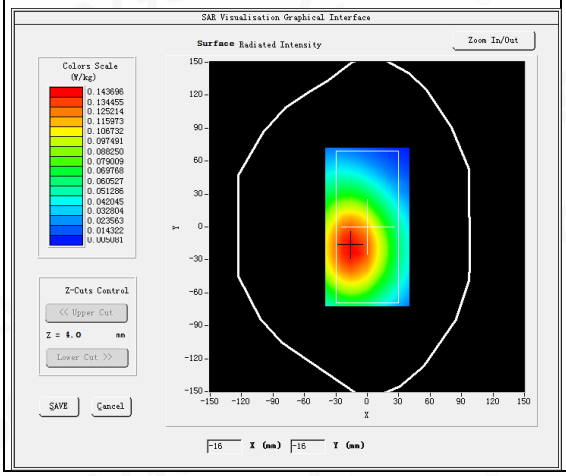
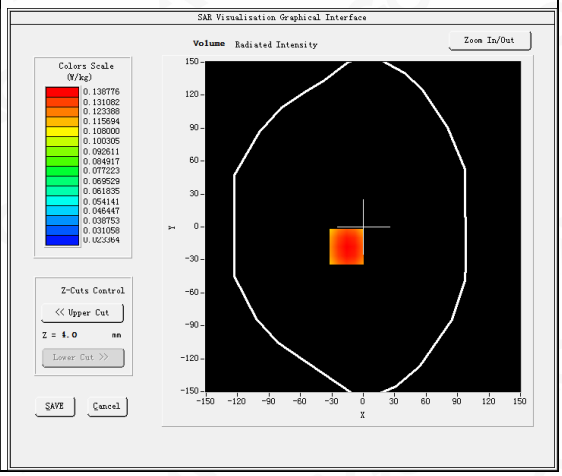
Communication System: LTE; Communication System Band: LTE Band 14; Duty Cycle:1:1; Conv.F=5.35;
Frequency: 793 MHz; Medium parameters used: f = 750 MHz; σ=0.92 mho/m; εr =41.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.1 Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 14 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 14 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

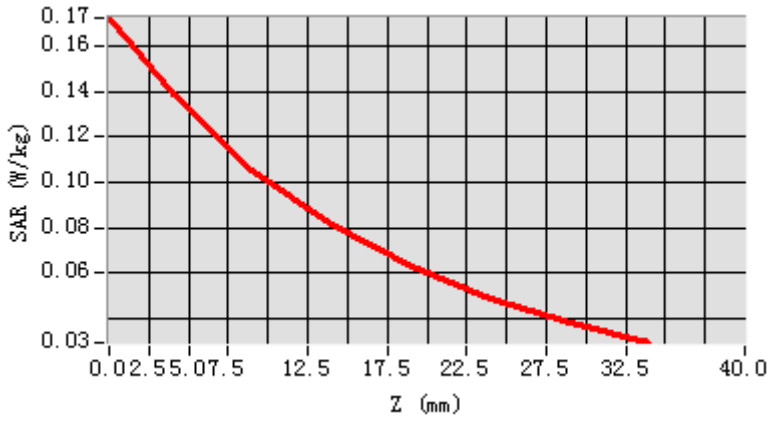
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 14
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

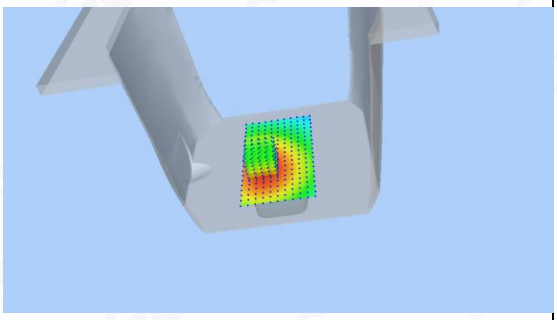
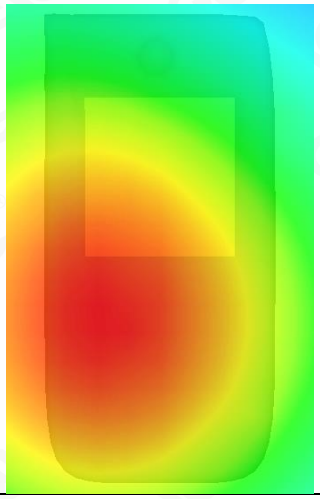
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-16.00, Y=-18.00
SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.099857
SAR 1g (W/Kg)	0.134753

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1726	0.1388	0.1057	0.0814	0.0631	0.0486	0.0383



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Oct. 30, 2021**
LTE Band 66 Mid-Body-Back (1 RB#0)
DUT: POC Radio; Type: IP-39S

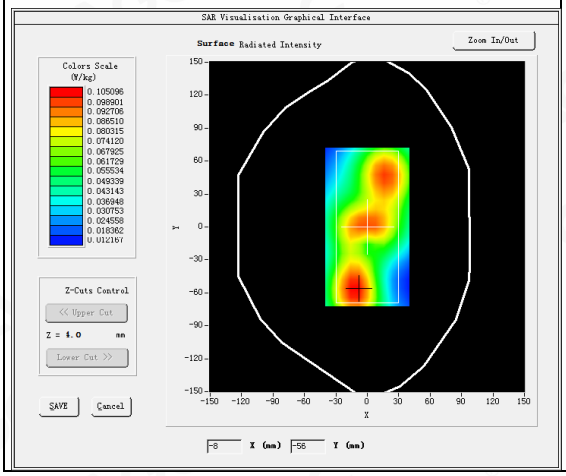
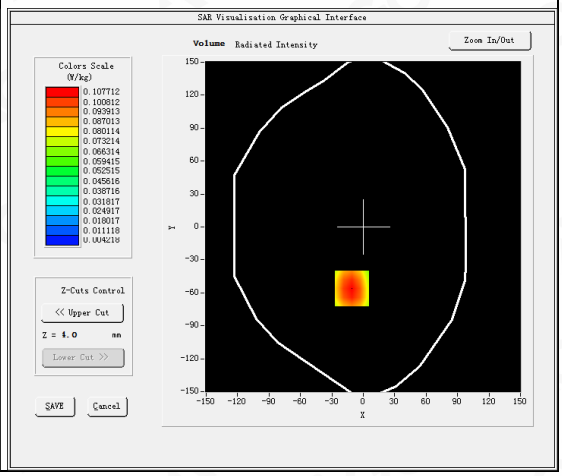
Communication System: LTE; Communication System Band: LTE Band 66; Duty Cycle:1:1; Conv.F=4.57; Frequency:1755 MHz; Medium parameters used: f = 1800 MHz; σ=1.36 mho/m; εr =41.31; ρ= 1000 kg/m^3 ; Phantom section: Flat Section
Ambient temperature (℃): 21.7, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 66 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 66 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

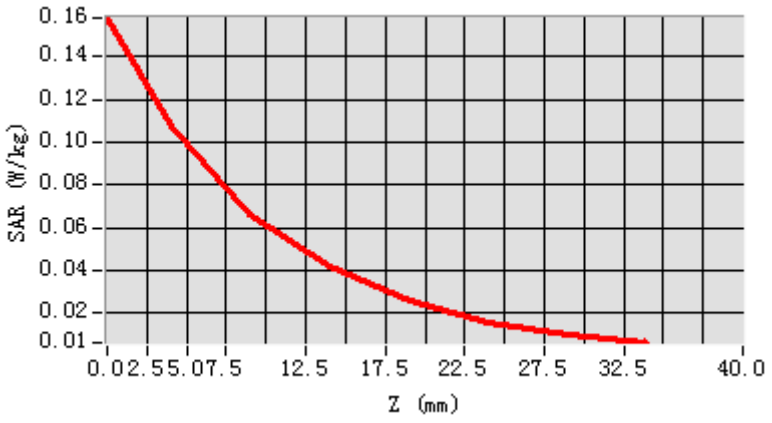
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 66
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-11.00, Y=-56.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.063323
SAR 1g (W/Kg)	0.104015

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1579	0.1077	0.0663	0.0417	0.0263	0.0162	0.0102



3D screen shot	Hot spot position