



#9

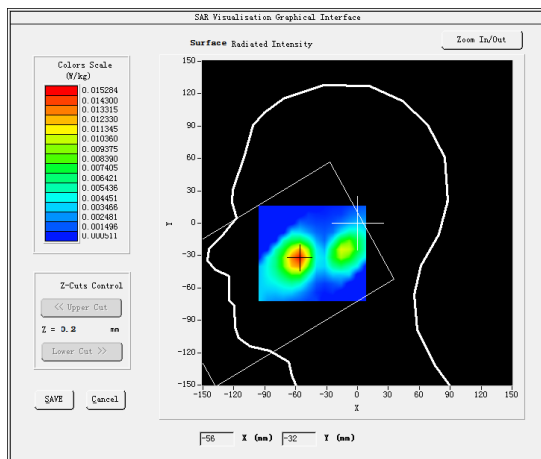
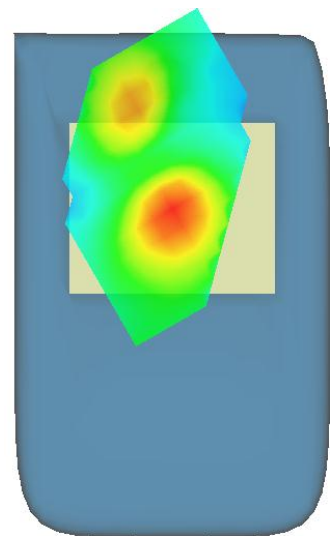
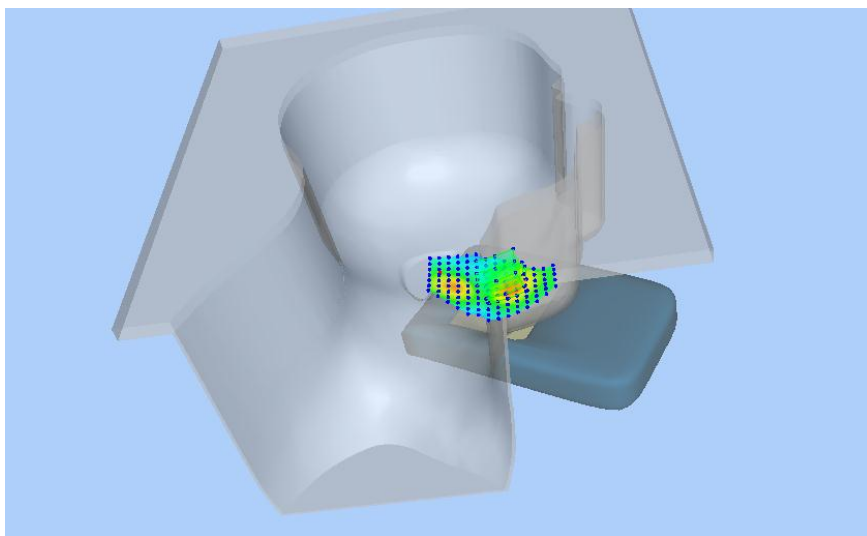
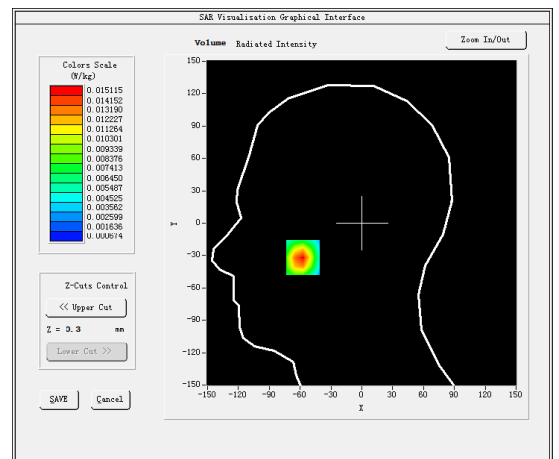
Test Mode: WCDMA Band II, High channel (Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: April 04, 2022

Medium (liquid type)	HSL_1900
Frequency (MHz)	1907.6000
Relative permittivity (real part)	39.25
Conductivity (S/m)	1.43
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-2.170000
SAR 10g (W/Kg)	0.008019
SAR 1g (W/Kg)	0.014134

SURFACE SAR**VOLUME SAR**



#10

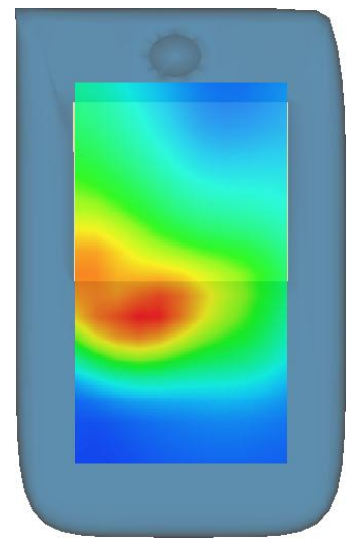
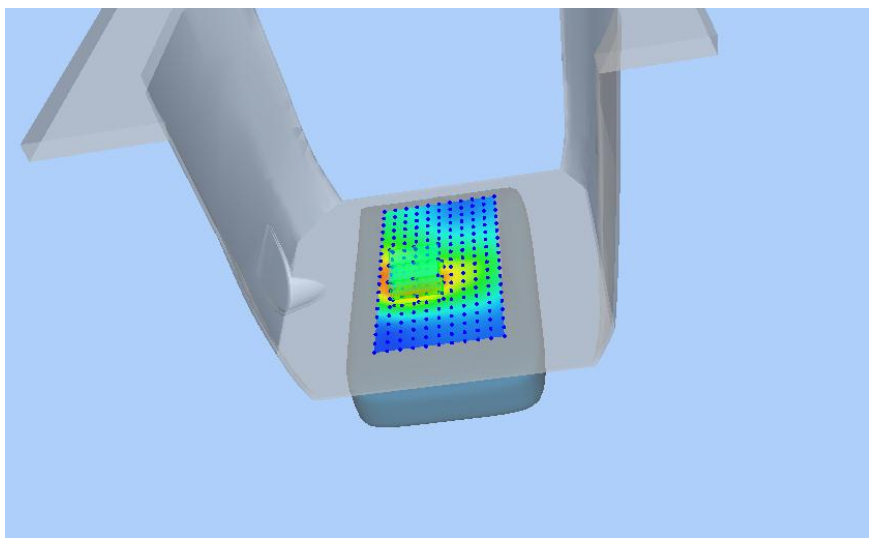
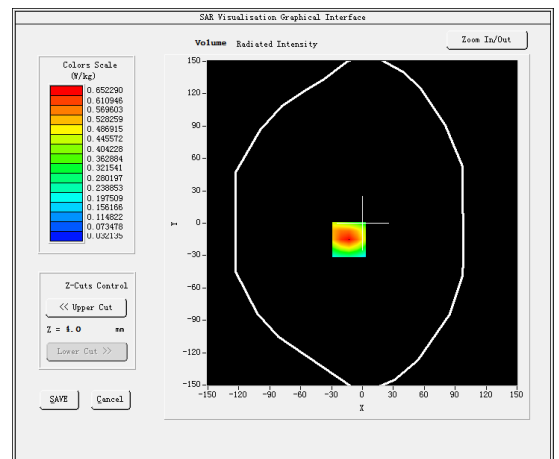
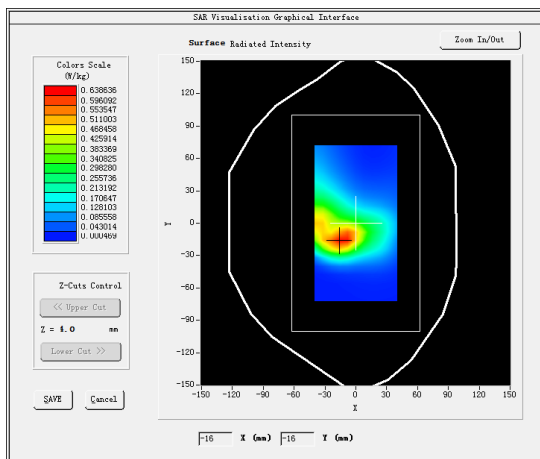
Test Mode: WCDMA Band II,High channel(Body Front Side)

Product Description:Tablet Pc

Model:P81L

Test Date: April 04, 2022

Medium(liquid type)	HSL_1900
Frequency (MHz)	1907.6000
Relative permittivity (real part)	39.25
Conductivity (S/m)	1.43
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.230000
SAR 10g (W/Kg)	0.330671
SAR 1g (W/Kg)	0.616523
SURFACE SAR	VOLUME SAR





#11

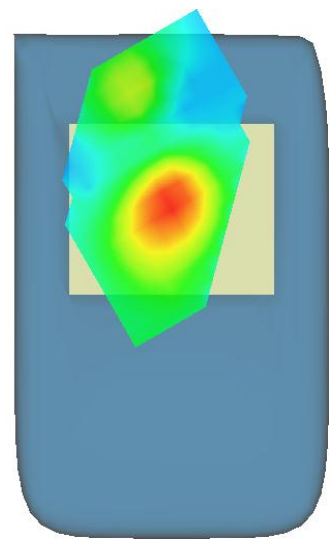
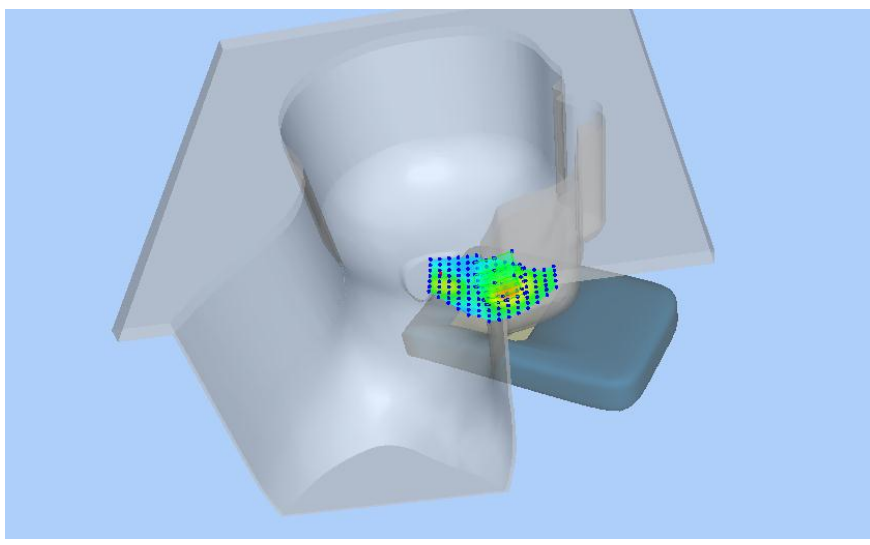
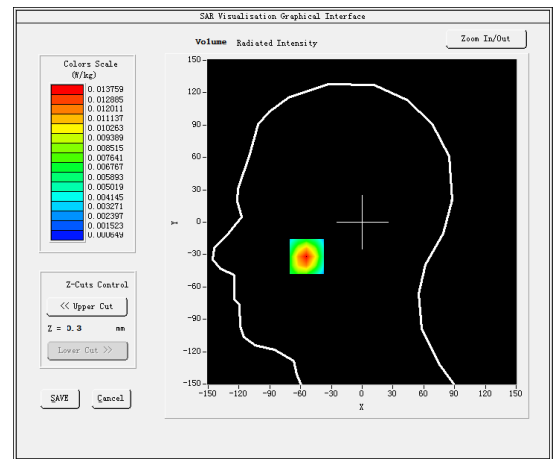
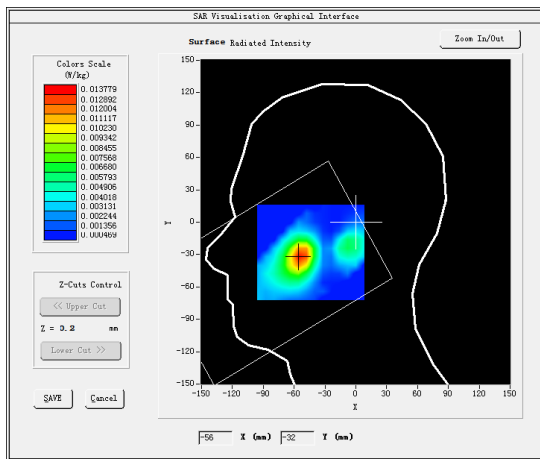
Test Mode: LTE Band 2, 1RB,Middle channel(Head Left Cheek)

Product Description:Tablet Pc

Model:P81L

Test Date: April 04, 2022

Medium(liquid type)	HSL_1900
Frequency (MHz)	1860.0000
Relative permittivity (real part)	40.22
Conductivity (S/m)	1.78
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	2.430000
SAR 10g (W/Kg)	0.007182
SAR 1g (W/Kg)	0.012774
SURFACE SAR	VOLUME SAR





#12

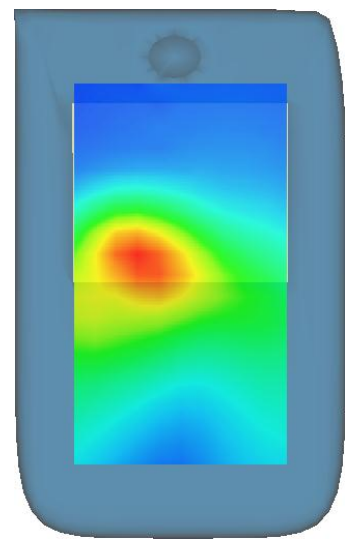
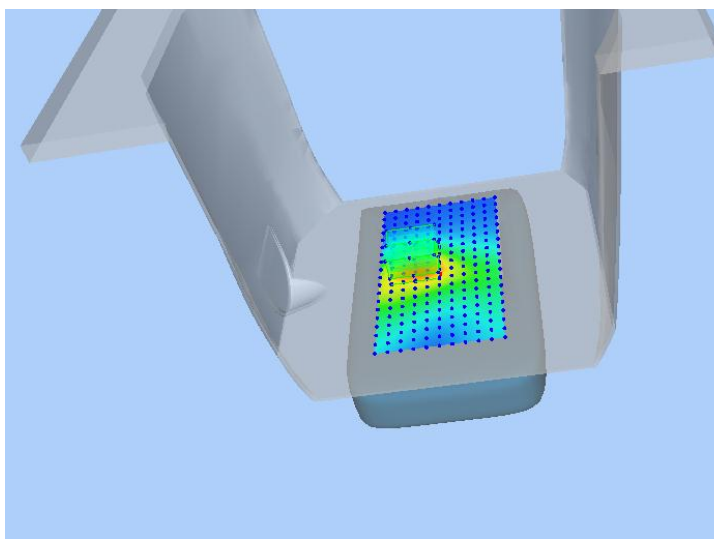
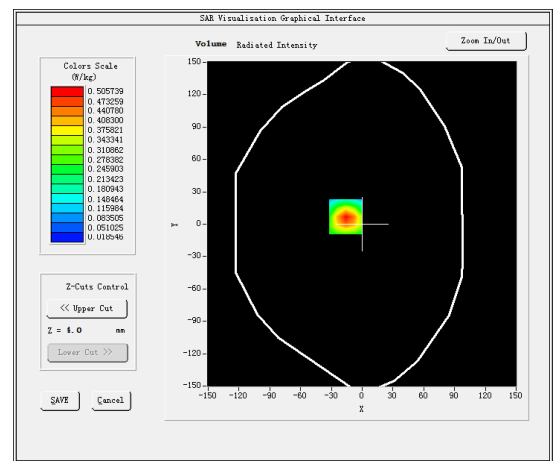
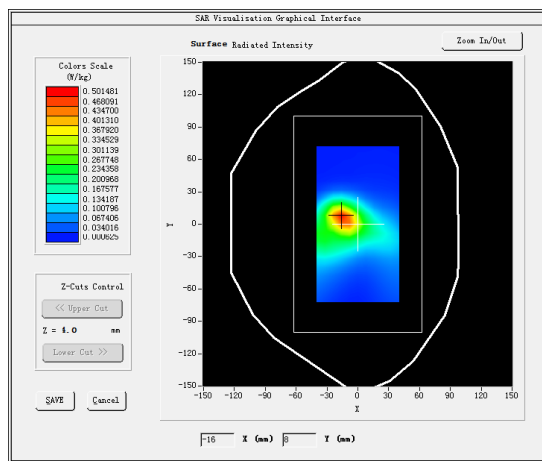
Test Mode: LTE Band 2, 1RB,Middle channel(Body Rear Side)

Product Description:Tablet Pc

Model:P81L

Test Date: April 04, 2022

Medium(liquid type)	HSL_1900
Frequency (MHz)	1860.0000
Relative permittivity (real part)	40.22
Conductivity (S/m)	1.78
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.720000
SAR 10g (W/Kg)	0.242237
SAR 1g (W/Kg)	0.474719
SURFACE SAR	VOLUME SAR





#13

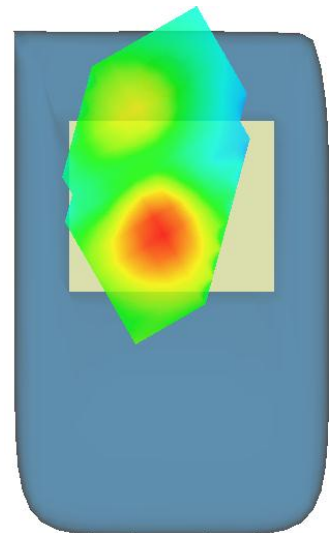
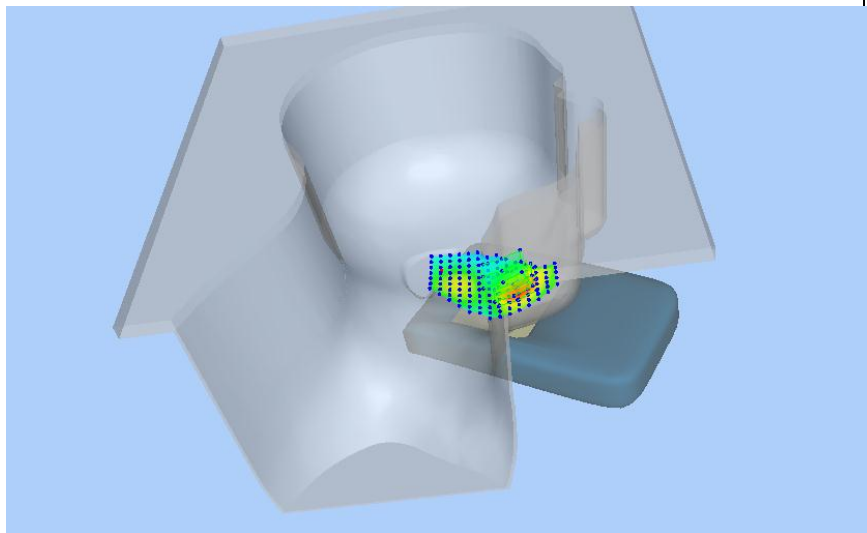
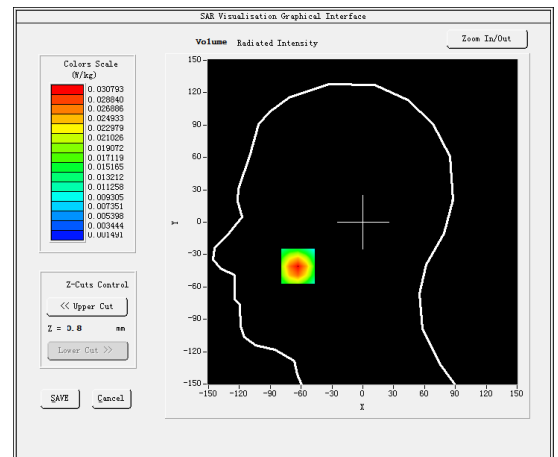
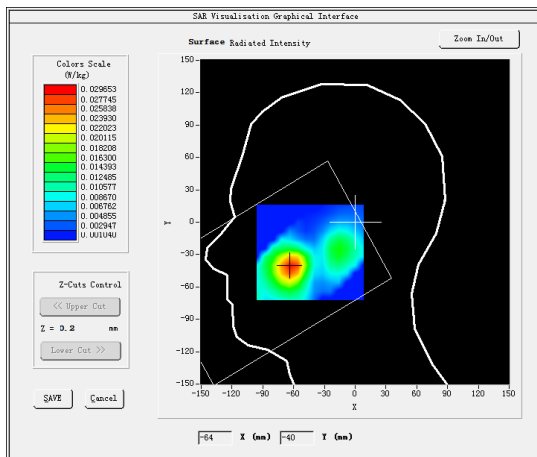
Test Mode: LTE Band 4, 1RB,Middle channel(Head Left Cheek)

Product Description:Tablet Pc

Model:P81L

Test Date: March 30, 2022

Medium(liquid type)	HSL_1800
Frequency (MHz)	1745.0000
Relative permittivity (real part)	40.74
Conductivity (S/m)	1.38
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.65
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.400000
SAR 10g (W/Kg)	0.017523
SAR 1g (W/Kg)	0.030328
SURFACE SAR	VOLUME SAR





#14

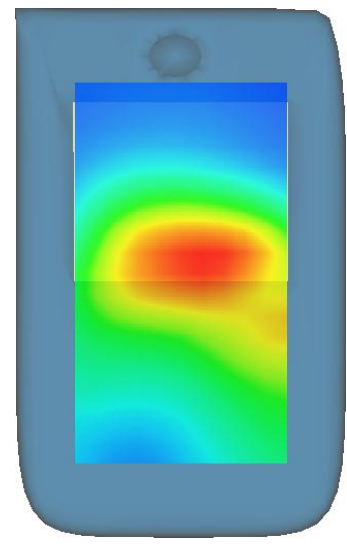
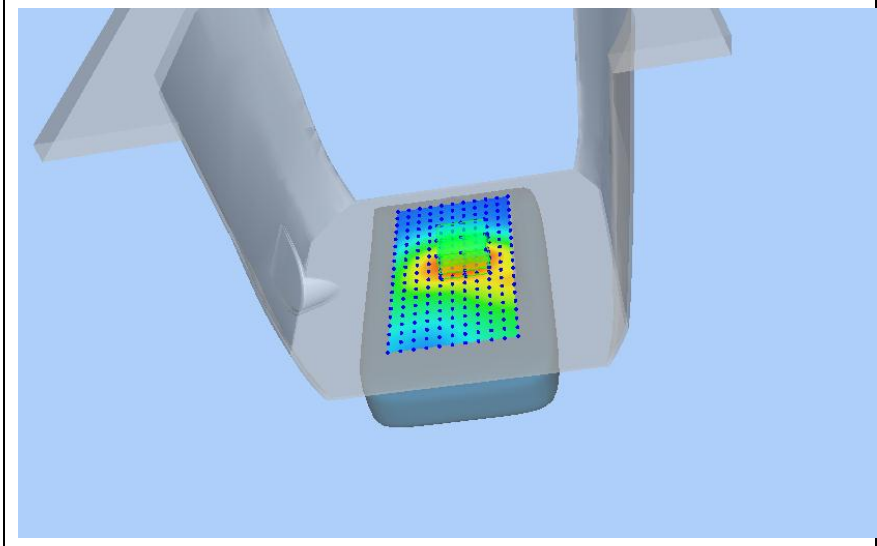
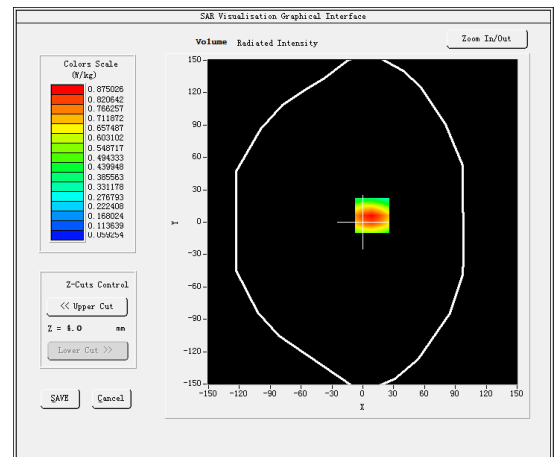
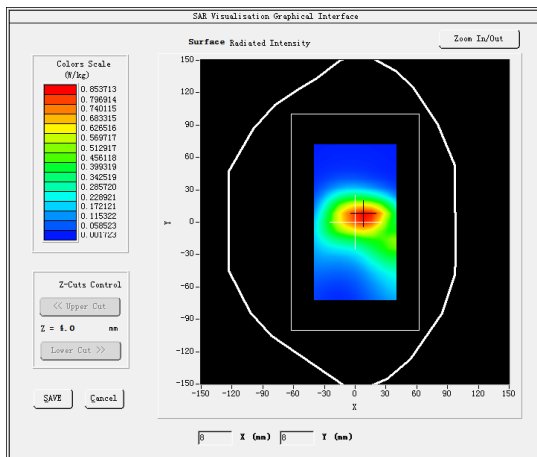
Test Mode: LTE Band 4, 1RB,Middle channel(Body Rear Side)

Product Description:Tablet Pc

Model:P81L

Test Date: March 30, 2022

Medium(liquid type)	HSL_1800
Frequency (MHz)	1745.0000
Relative permittivity (real part)	40.74
Conductivity (S/m)	1.38
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.65
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.170000
SAR 10g (W/Kg)	0.543026
SAR 1g (W/Kg)	0.985225
SURFACE SAR	VOLUME SAR





#15

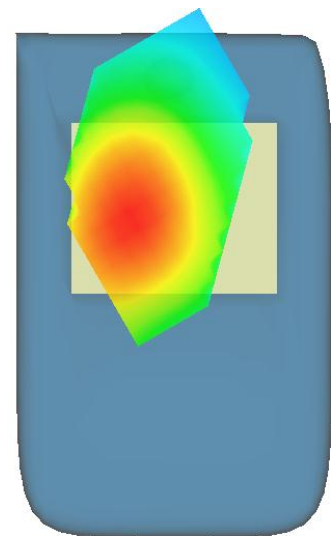
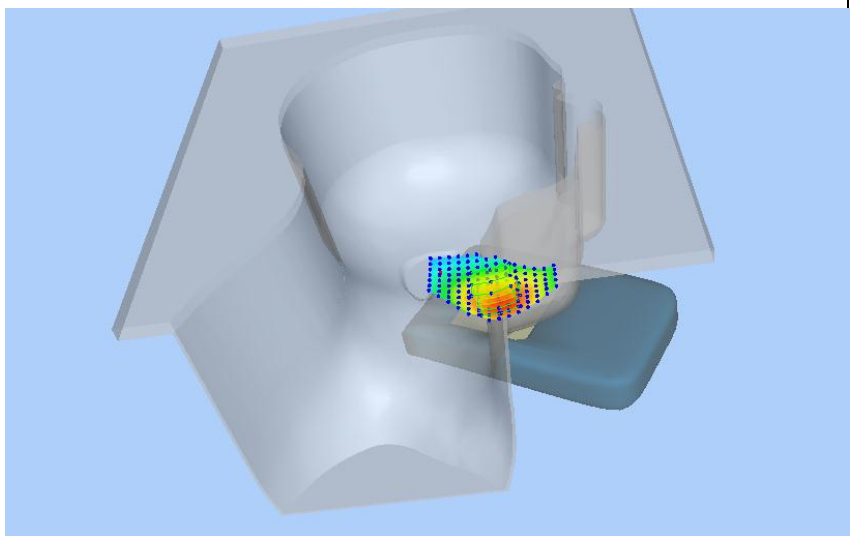
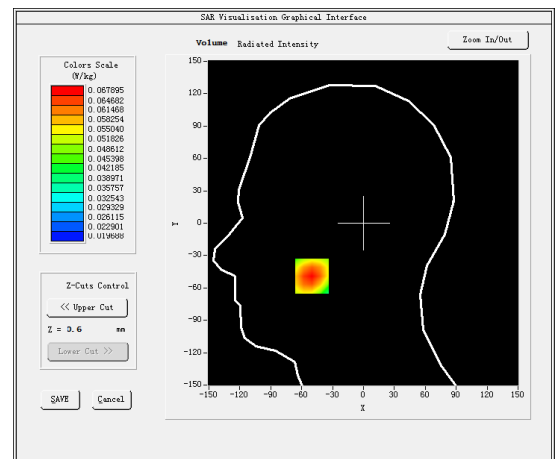
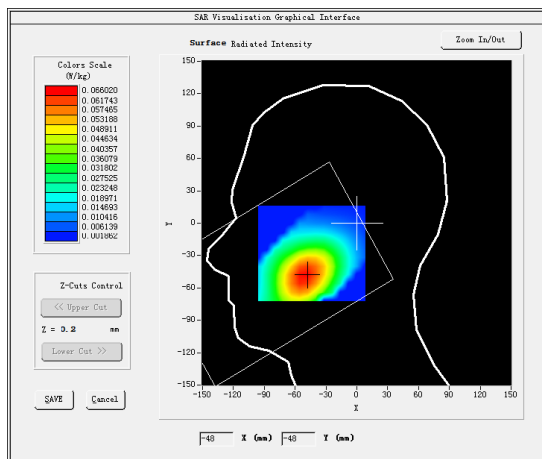
Test Mode: LTE Band 5, 1RB, Low channel (Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: March 25, 2022

Medium (liquid type)	HSL_835
Frequency (MHz)	829.0000
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.90
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	1.600000
SAR 10g (W/Kg)	0.051156
SAR 1g (W/Kg)	0.065920
SURFACE SAR	VOLUME SAR





#16

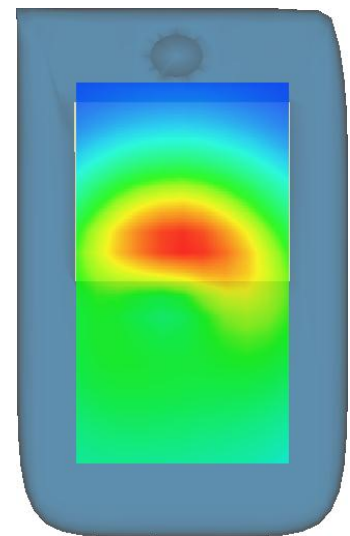
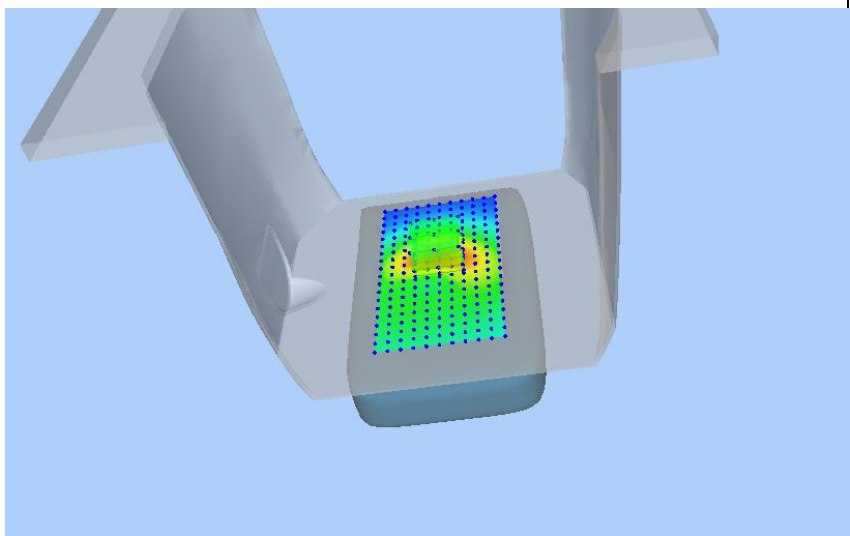
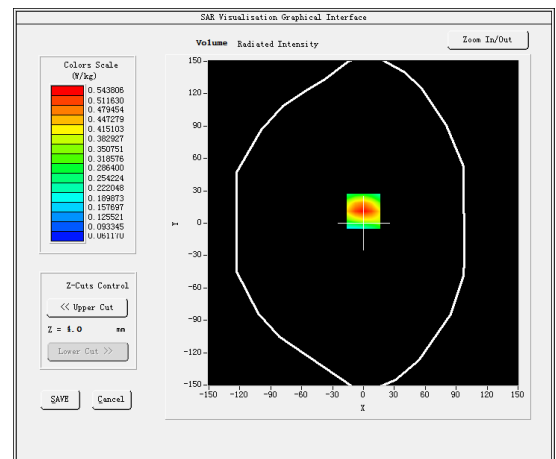
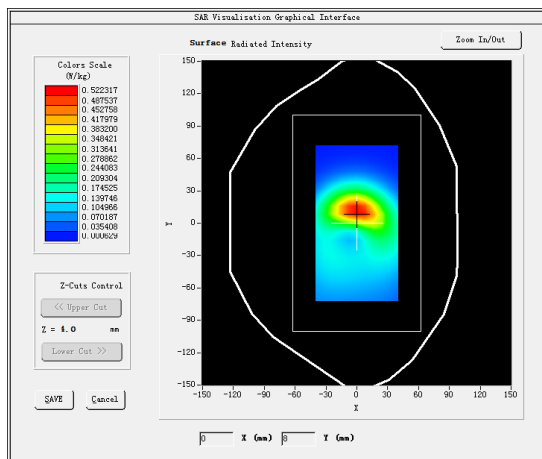
Test Mode: LTE Band 5, 1RB, Low channel (Body Front Side)

Product Description: Tablet Pc

Model: P81L

Test Date: March 25, 2022

Medium (liquid type)	HSL_835
Frequency (MHz)	829.0000
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.90
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	0.010000
SAR 10g (W/Kg)	0.321724
SAR 1g (W/Kg)	0.515307
SURFACE SAR	VOLUME SAR





#17

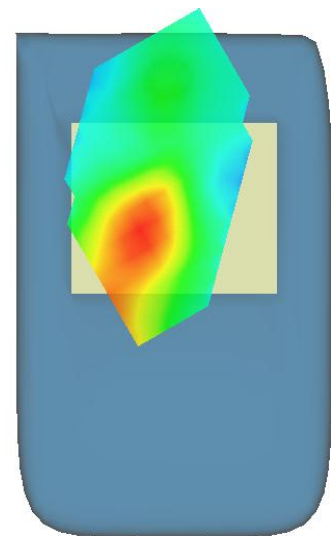
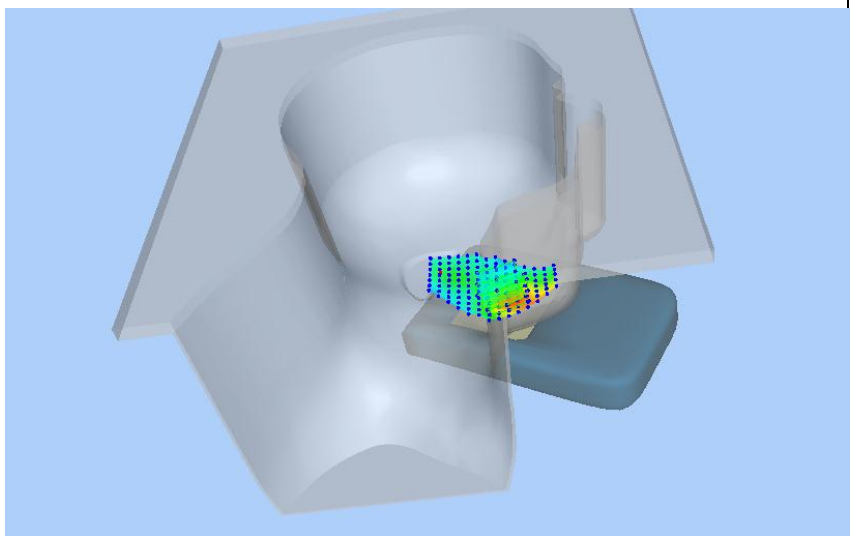
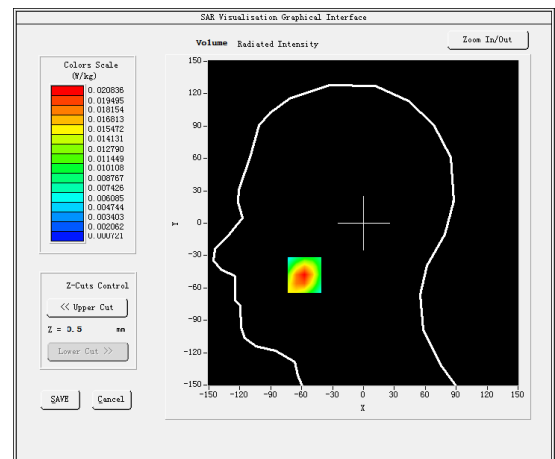
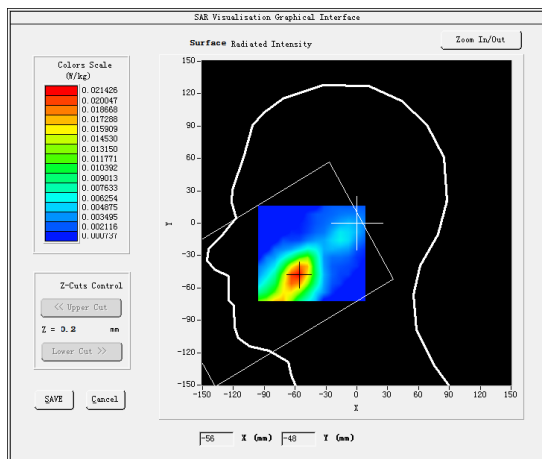
Test Mode: LTE Band 7, 1RB, Low channel (Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: April 08, 2022

Medium (liquid type)	HSL_2600
Frequency (MHz)	2510.0000
Relative permittivity (real part)	36.12
Conductivity (S/m)	4.70
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.010000
SAR 10g (W/Kg)	0.010385
SAR 1g (W/Kg)	0.019598
SURFACE SAR	VOLUME SAR





#18

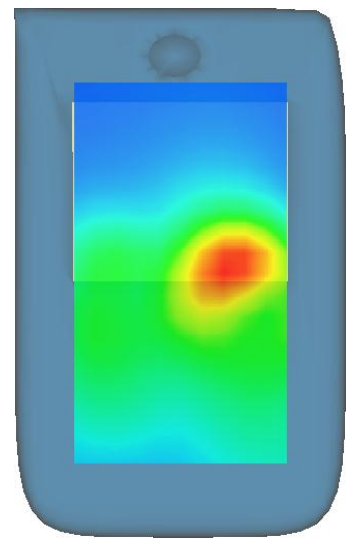
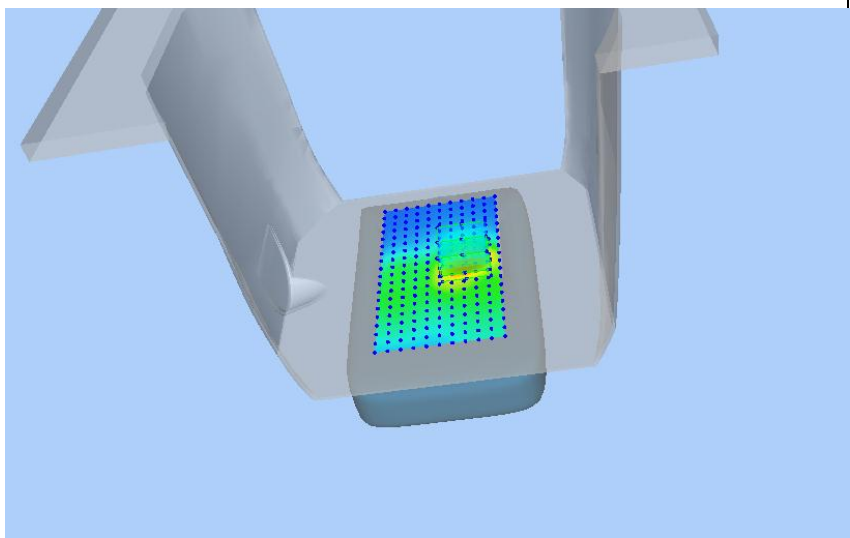
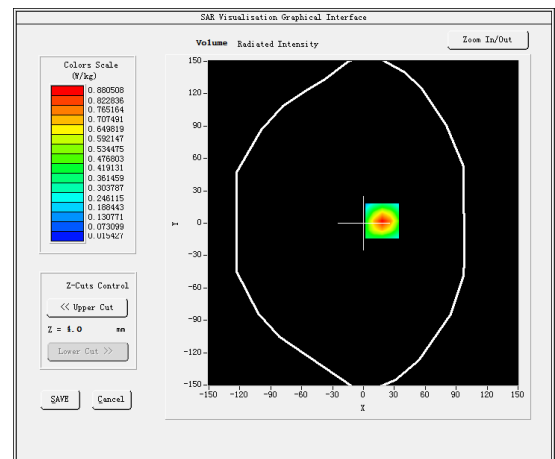
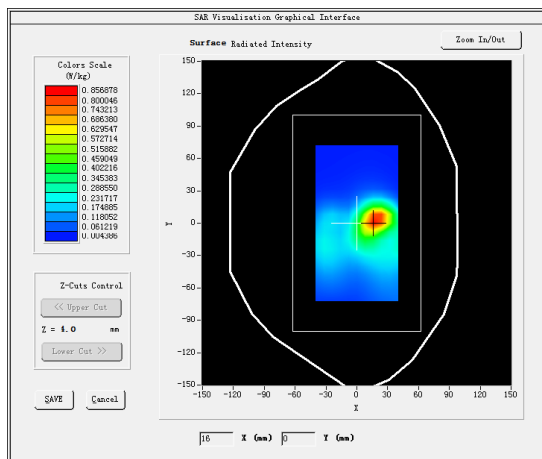
Test Mode: LTE Band 7, 1RB, Low channel (Body Front Side)

Product Description: Tablet Pc

Model: P81L

Test Date: April 08, 2022

Medium (liquid type)	HSL_2600
Frequency (MHz)	2510.0000
Relative permittivity (real part)	36.12
Conductivity (S/m)	4.70
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.940000
SAR 10g (W/Kg)	0.389346
SAR 1g (W/Kg)	0.814883
SURFACE SAR	VOLUME SAR





#19

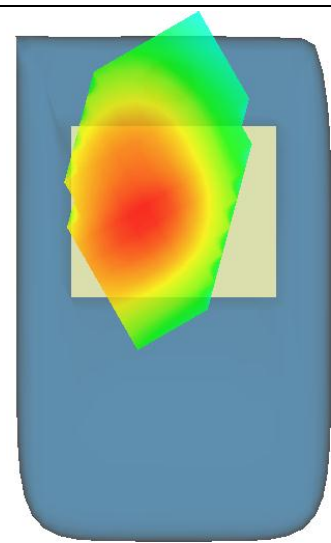
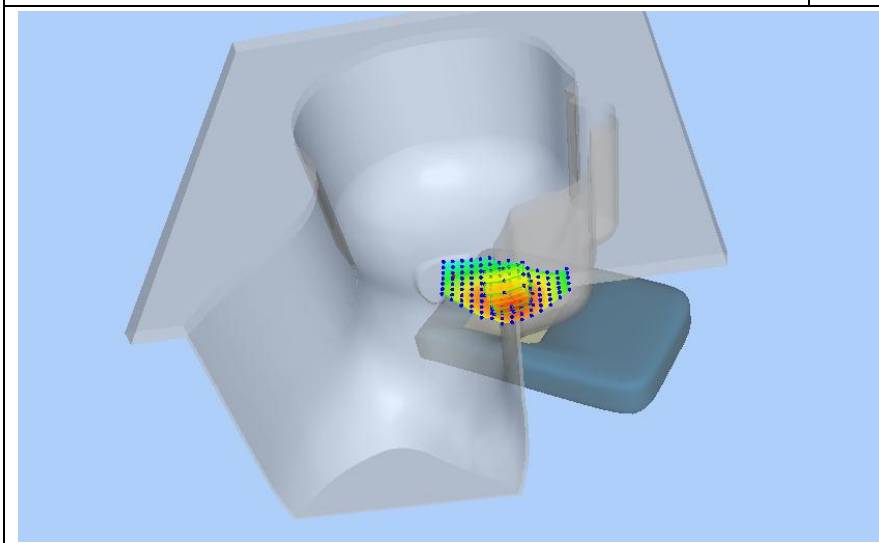
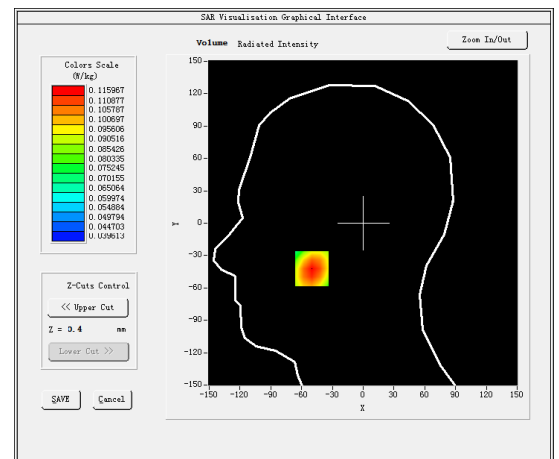
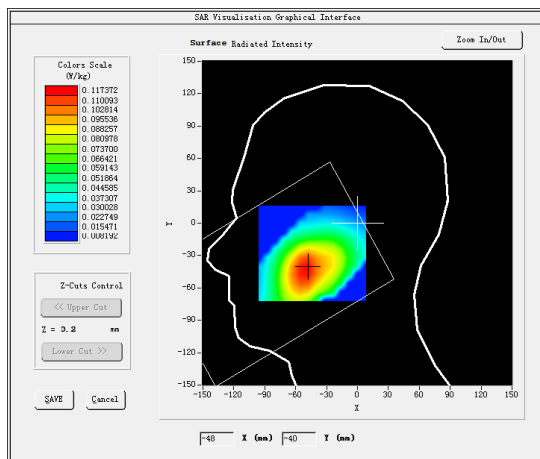
Test Mode: LTE Band 12, 1RB, Low channel (Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: March 23, 2022

Medium(liquid type)	HSL_750
Frequency (MHz)	704.0000
Relative permittivity (real part)	41.17
Conductivity (S/m)	0.88
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	1.620000
SAR 10g (W/Kg)	0.092561
SAR 1g (W/Kg)	0.114974
SURFACE SAR	VOLUME SAR





#20

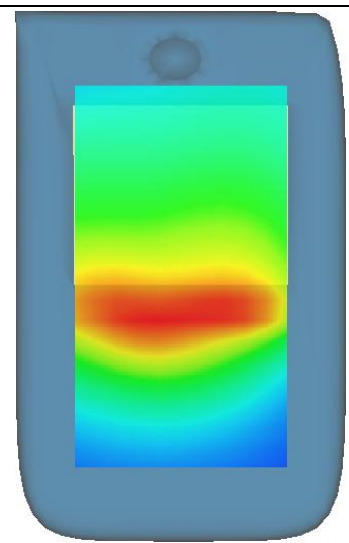
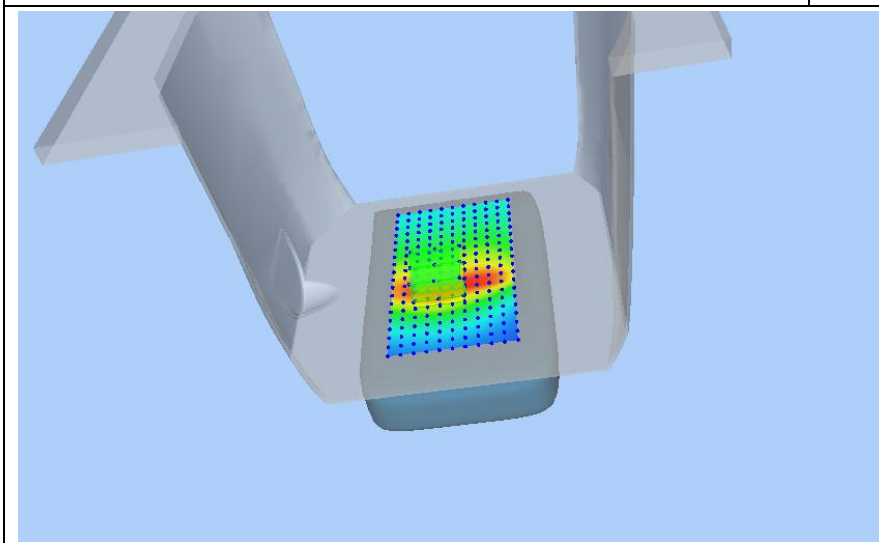
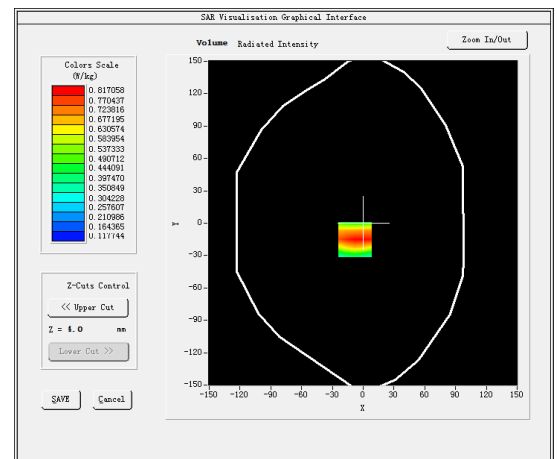
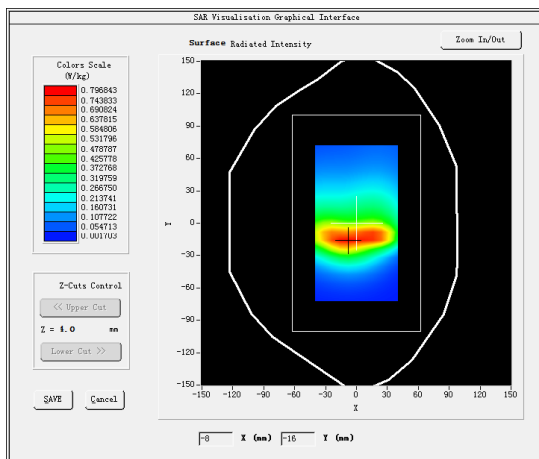
Test Mode: LTE Band 12, 1RB, Low channel (Body Rear Side)

Product Description: Tablet Pc

Model: P81L

Test Date: March 23, 2022

Medium(liquid type)	HSL_750
Frequency (MHz)	704.0000
Relative permittivity (real part)	41.17
Conductivity (S/m)	0.88
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	1.890000
SAR 10g (W/Kg)	0.491377
SAR 1g (W/Kg)	0.792154
SURFACE SAR	VOLUME SAR





#21

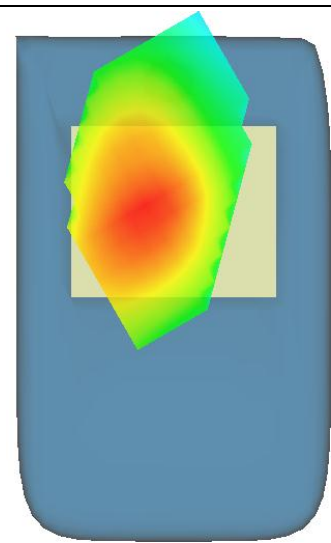
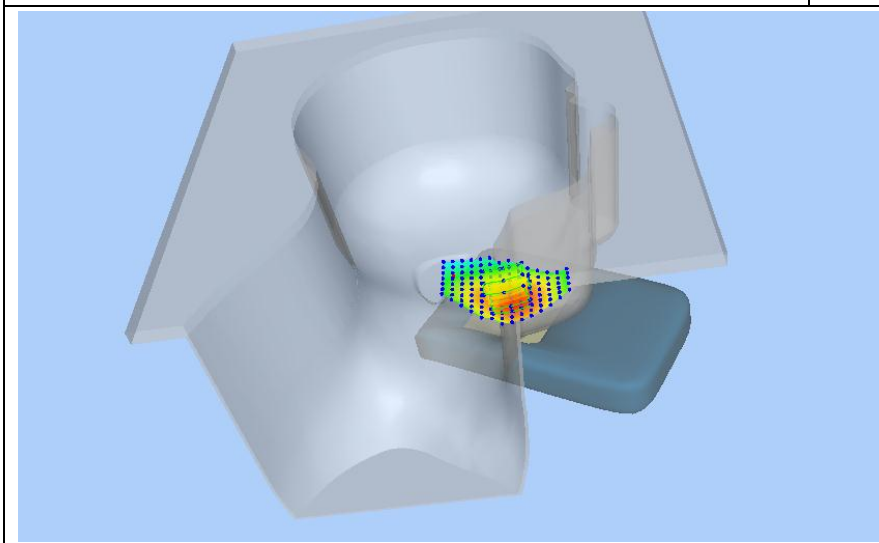
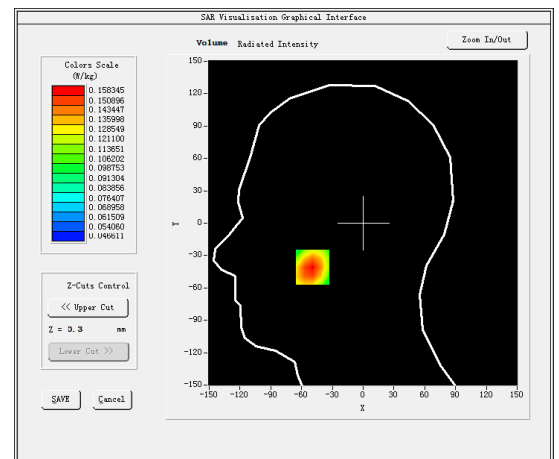
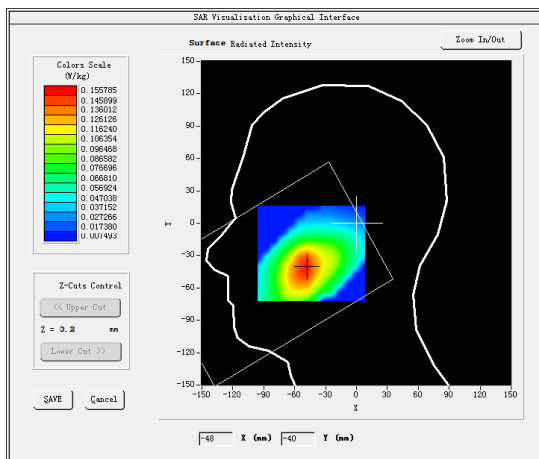
Test Mode: LTE Band 13, 1RB, Middle channel (Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: March 23, 2022

Medium(liquid type)	HSL _750
Frequency (MHz)	782.0000
Relative permittivity (real part)	55.40
Conductivity (S/m)	0.97
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.930000
SAR 10g (W/Kg)	0.118576
SAR 1g (W/Kg)	0.153132
SURFACE SAR	VOLUME SAR





#22

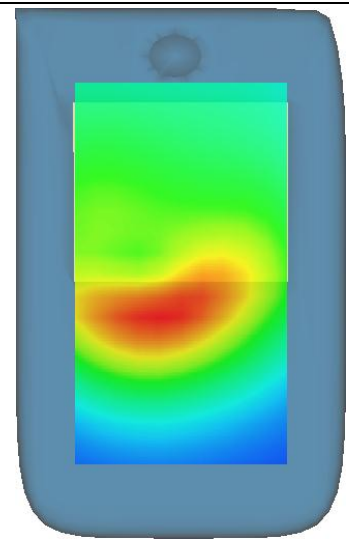
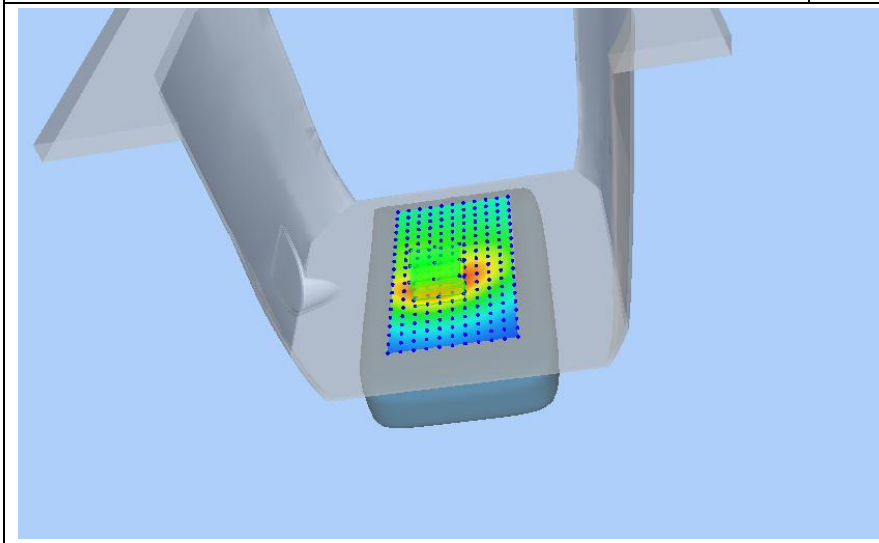
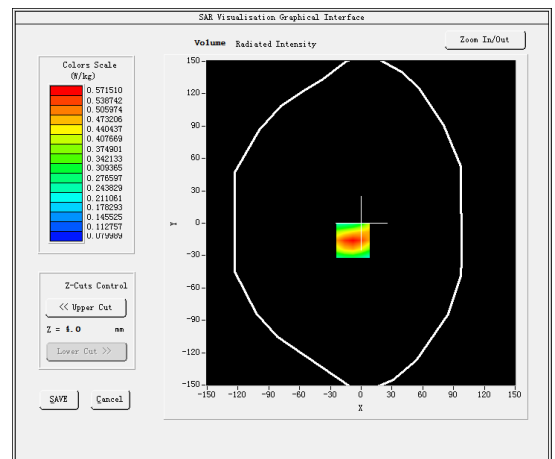
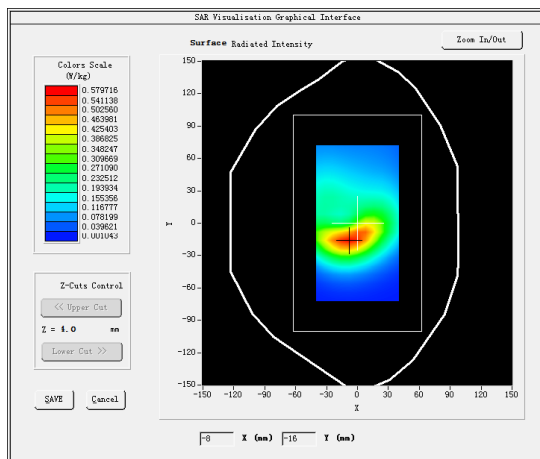
Test Mode: LTE Band 13, 1RB, Middle channel (Body Rear Side)

Product Description: Tablet Pc

Model: P81L

Test Date: March 23, 2022

Medium(liquid type)	HSL _750
Frequency (MHz)	782.0000
Relative permittivity (real part)	55.40
Conductivity (S/m)	0.97
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.680000
SAR 10g (W/Kg)	0.332026
SAR 1g (W/Kg)	0.537560
SURFACE SAR	VOLUME SAR





#23

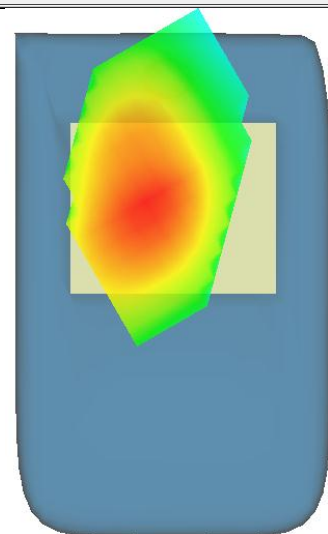
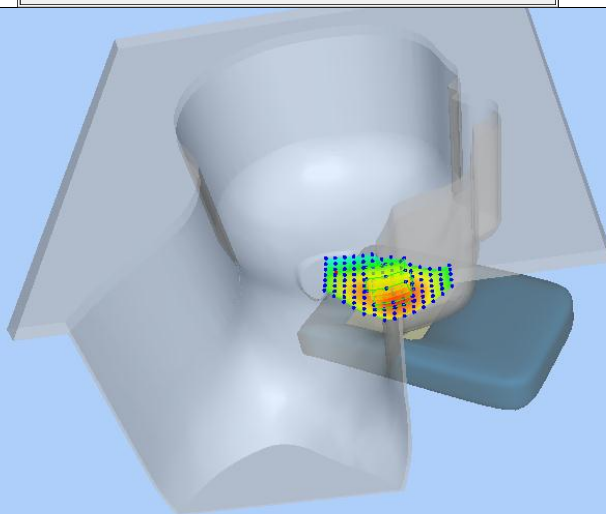
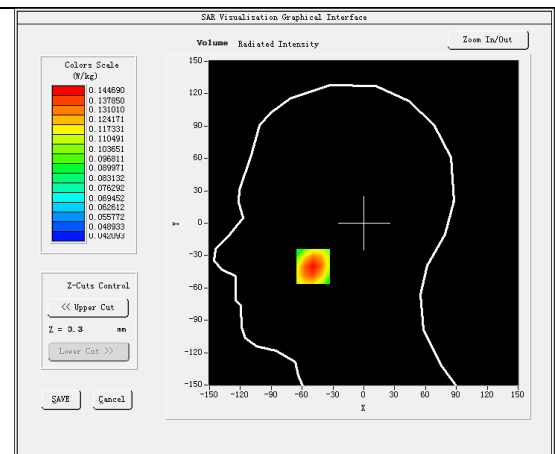
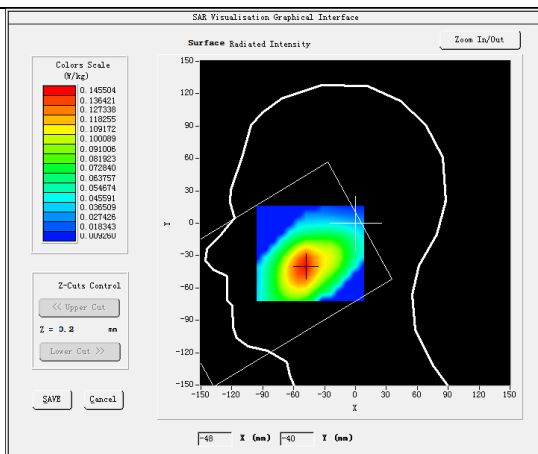
Test Mode: LTE Band 14, 1RB, Middle channel(Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: March 23, 2022

Medium(liquid type)	HSL _750
Frequency (MHz)	793.0000
Relative permittivity (real part)	55.40
Conductivity (S/m)	0.97
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	1.050000
SAR 10g (W/Kg)	0.107393
SAR 1g (W/Kg)	0.139645
SURFACE SAR	VOLUME SAR





#24

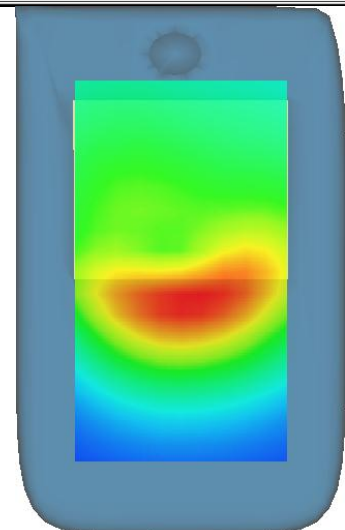
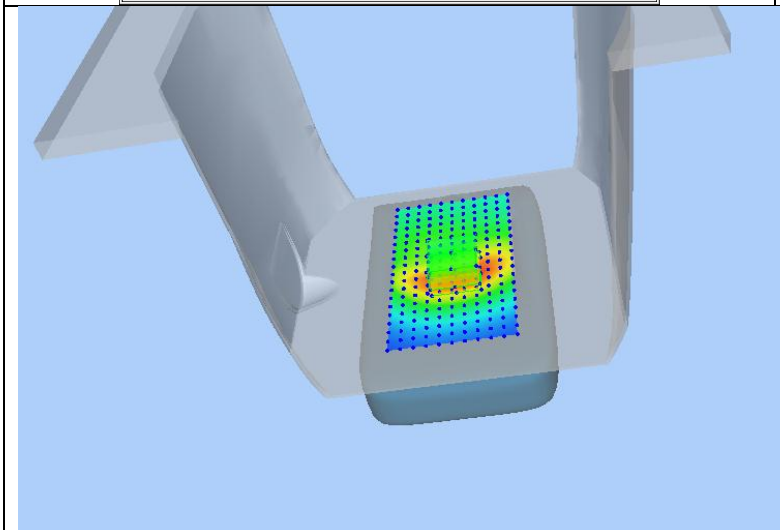
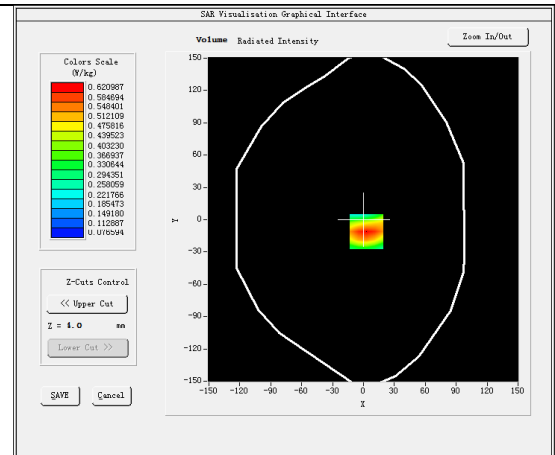
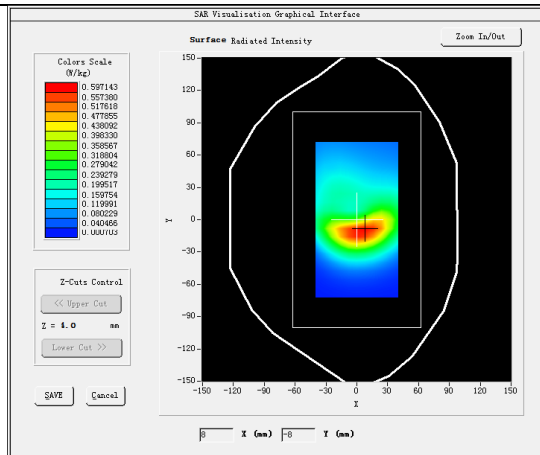
Test Mode: Hotspot LTE Band 14, 1RB, Middle channel(Body Rear Side)

Product Description: Tablet Pc

Model: P81L

Test Date: March 23, 2022

Medium(liquid type)	HSL _750
Frequency (MHz)	793.0000
Relative permittivity (real part)	55.40
Conductivity (S/m)	0.97
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.690000
SAR 10g (W/Kg)	0.357807
SAR 1g (W/Kg)	0.586390

SURFACE SAR**VOLUME SAR**



#25

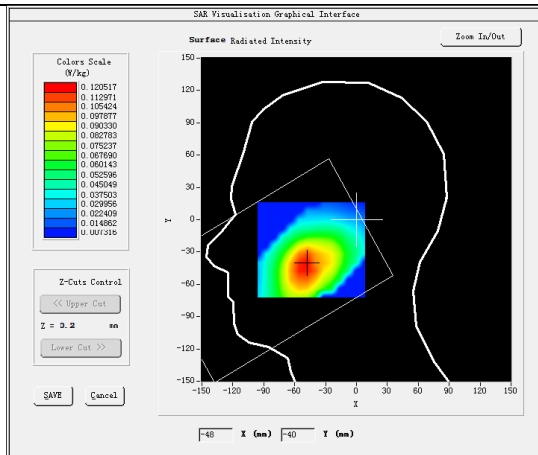
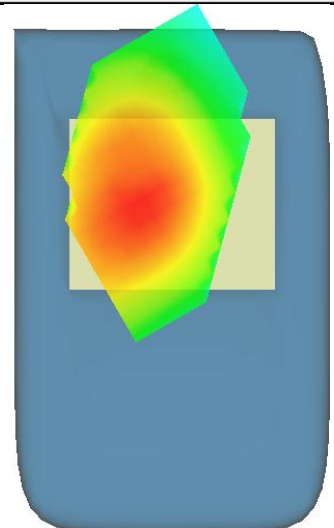
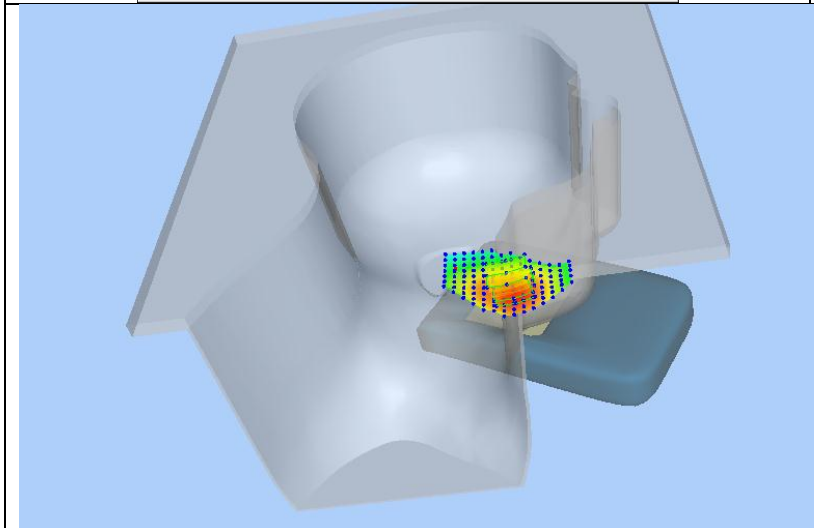
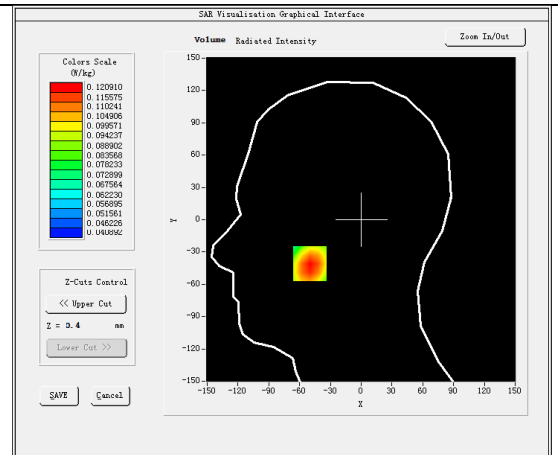
Test Mode: LTE Band 17, 1RB, High channel(Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: March 23, 2022

Medium(liquid type)	HSL _750
Frequency (MHz)	711.0000
Relative permittivity (real part)	55.40
Conductivity (S/m)	0.97
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.000000
SAR 10g (W/Kg)	0.096883
SAR 1g (W/Kg)	0.120076

SURFACE SAR**VOLUME SAR**



#26

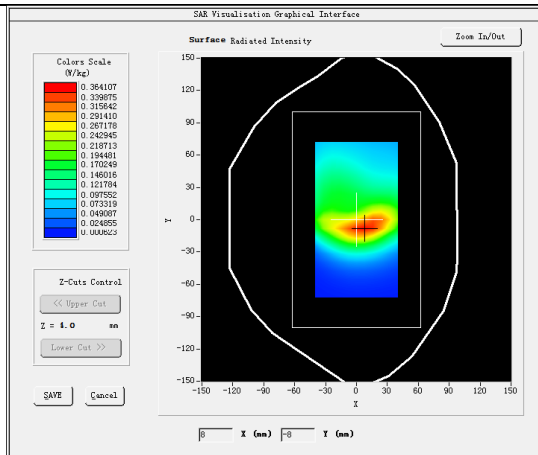
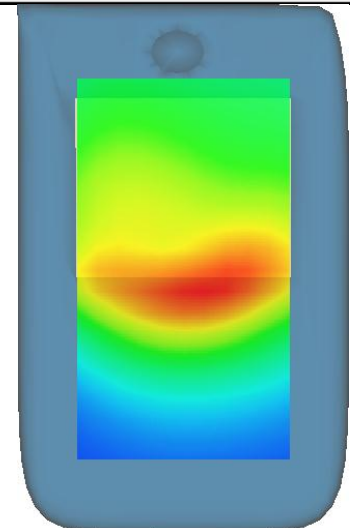
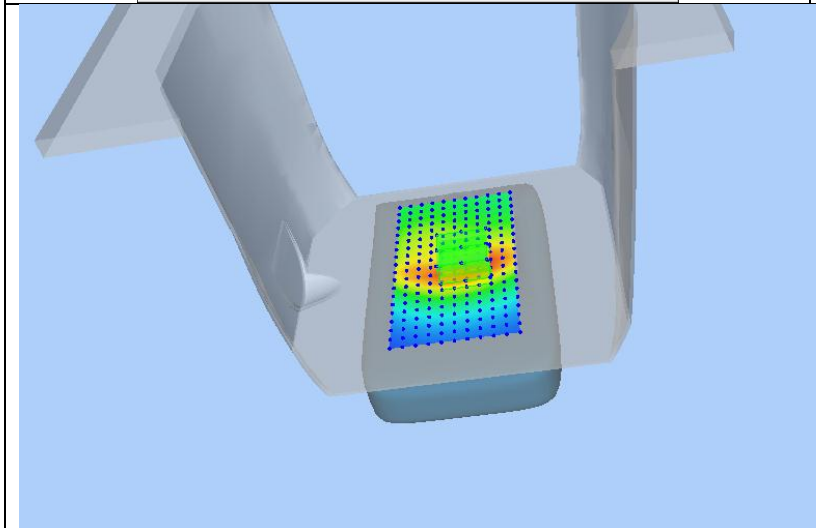
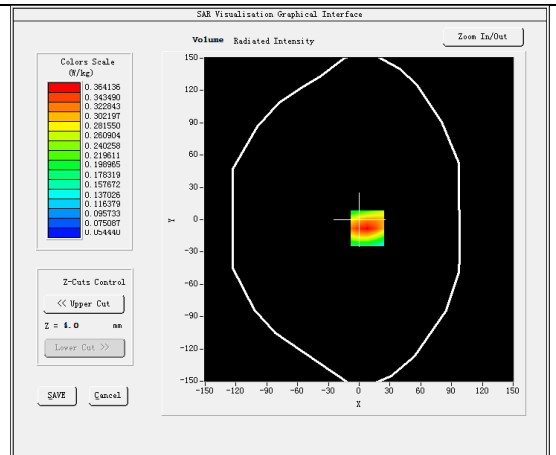
Test Mode: Hotspot LTE Band 17, 1RB, High channel (Body Rear Side)

Product Description: Tablet Pc

Model: P81L

Test Date: March 23, 2022

Medium(liquid type)	HSL _750
Frequency (MHz)	711.0000
Relative permittivity (real part)	55.40
Conductivity (S/m)	0.97
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.430000
SAR 10g (W/Kg)	0.217730
SAR 1g (W/Kg)	0.351905

SURFACE SAR**VOLUME SAR**



#27

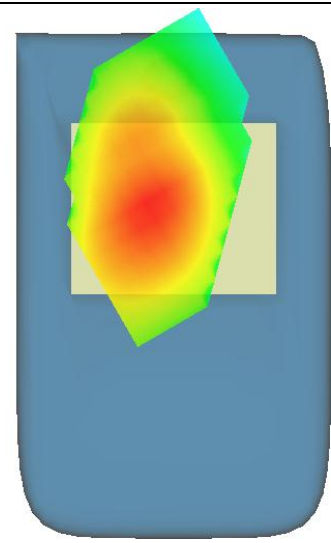
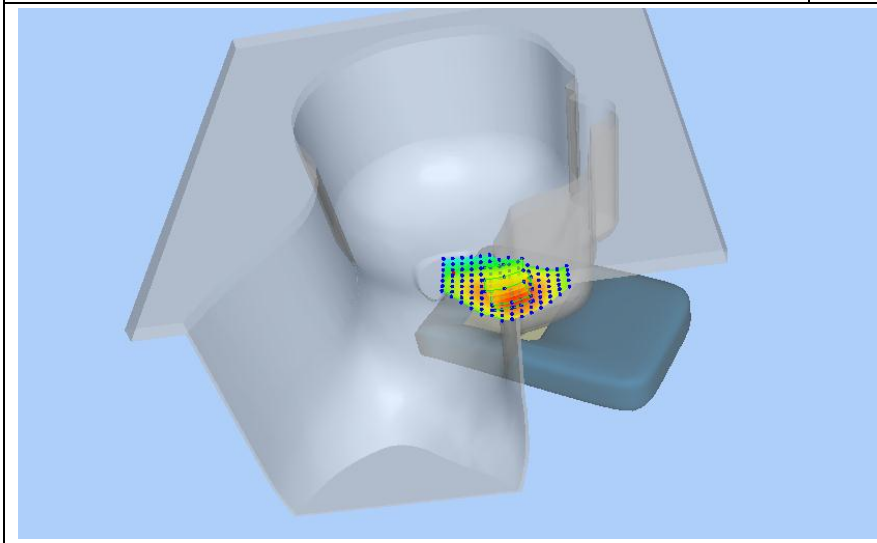
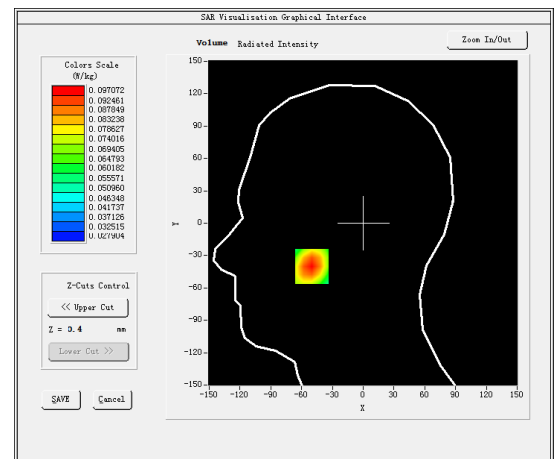
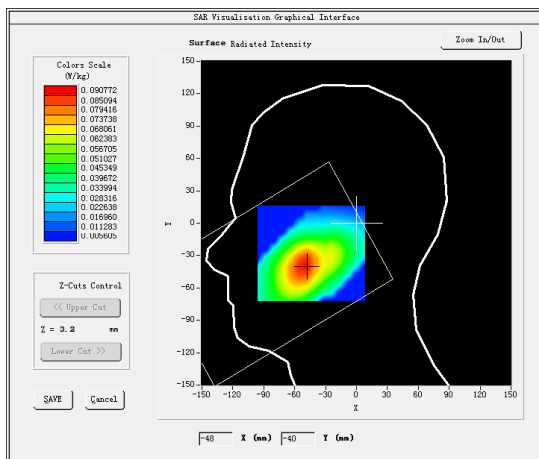
Test Mode: LTE Band 26, 1RB, High channel (Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: March 25, 2022

Medium(liquid type)	HSL_835
Frequency (MHz)	841.5000
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.89
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	0.800000
SAR 10g (W/Kg)	0.071366
SAR 1g (W/Kg)	0.093918
SURFACE SAR	VOLUME SAR





#28

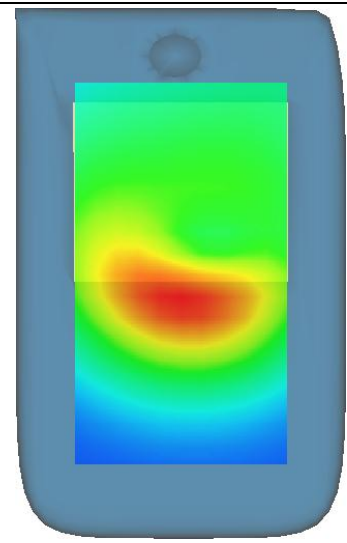
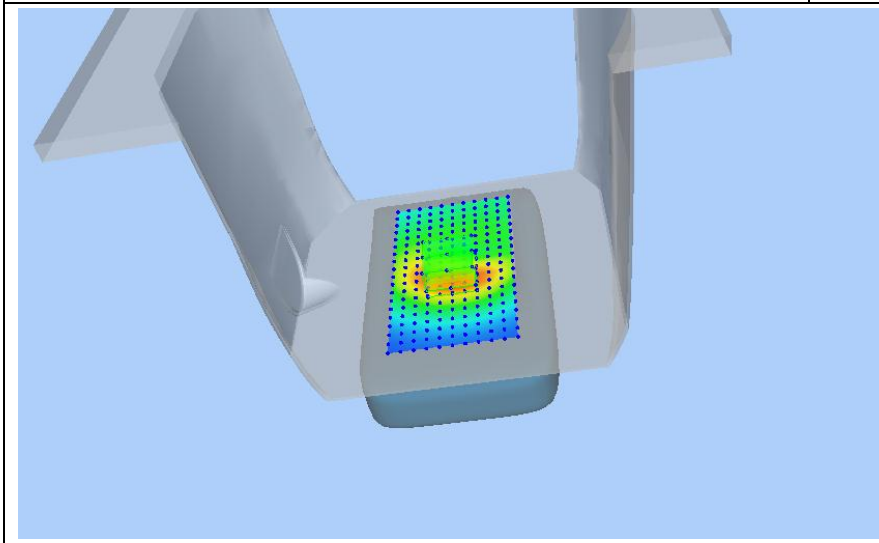
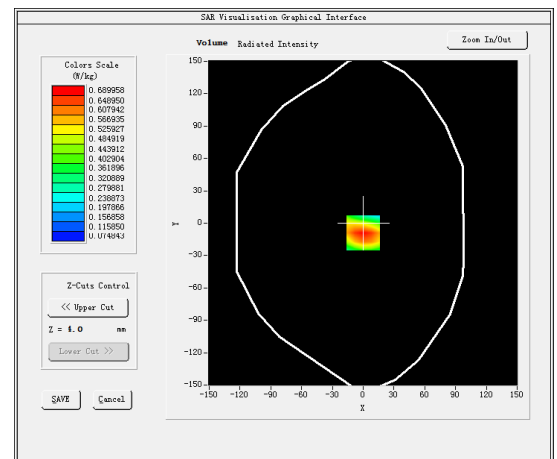
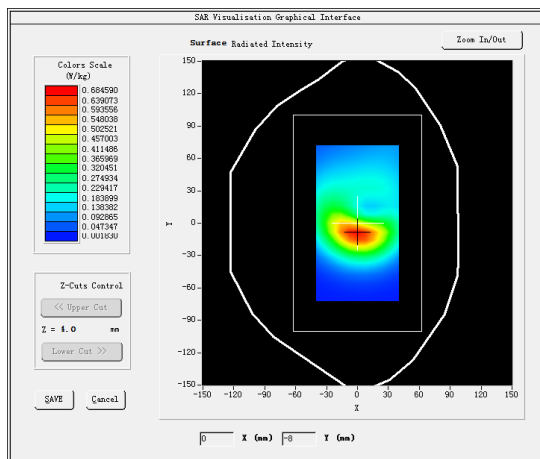
Test Mode: LTE Band 26, 1RB, High channel (Body Rear Side)

Product Description: Tablet Pc

Model: P81L

Test Date: March 25, 2022

Medium(liquid type)	HSL_835
Frequency (MHz)	841.5000
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.89
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.520000
SAR 10g (W/Kg)	0.415011
SAR 1g (W/Kg)	0.653350
SURFACE SAR	VOLUME SAR





#29

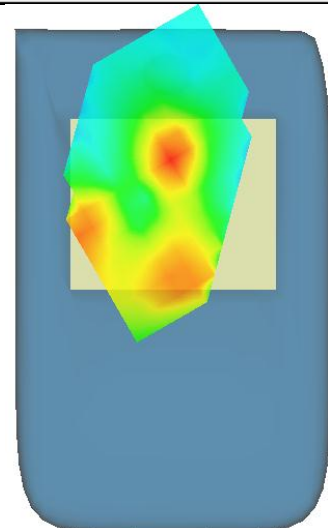
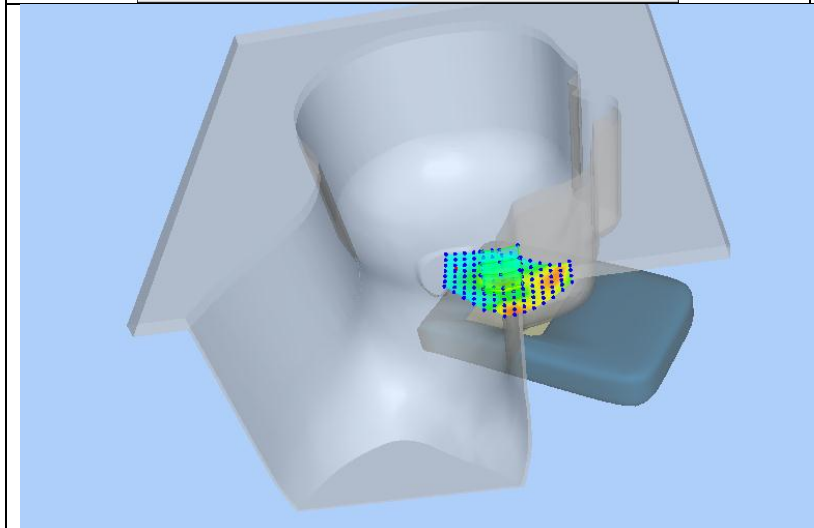
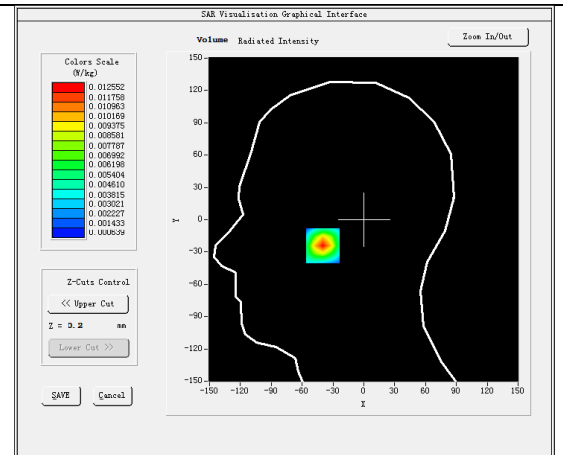
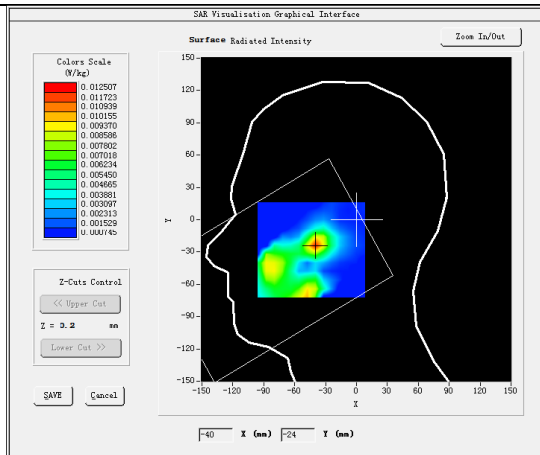
Test Mode: LTE Band 41, 1RB, High channel (Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: April 08, 2022

Medium(liquid type)	HSL_2600
Frequency (MHz)	2680.0000
Relative permittivity (real part)	36.12
Conductivity (S/m)	4.70
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-1.410000
SAR 10g (W/Kg)	0.005480
SAR 1g (W/Kg)	0.011451
SURFACE SAR	VOLUME SAR





#30

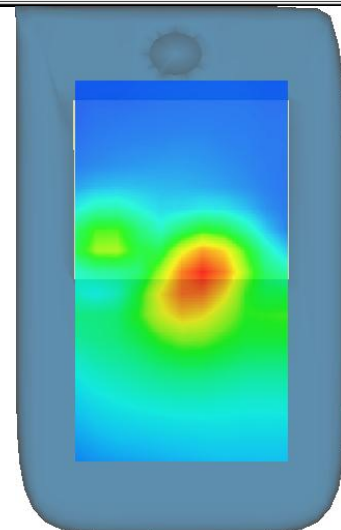
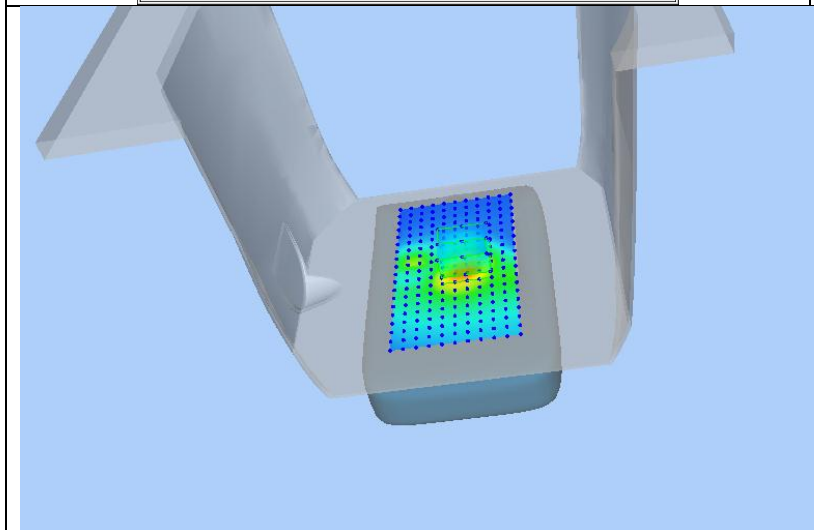
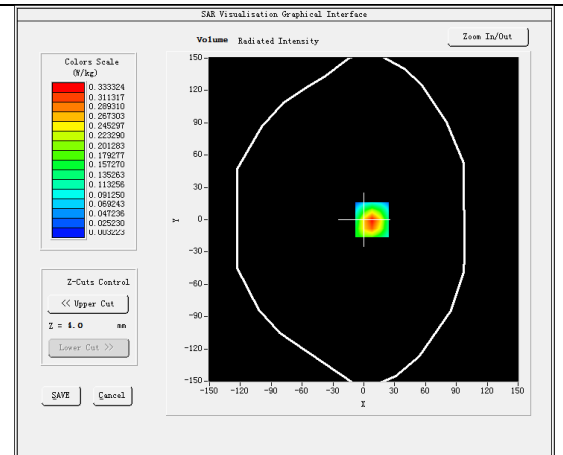
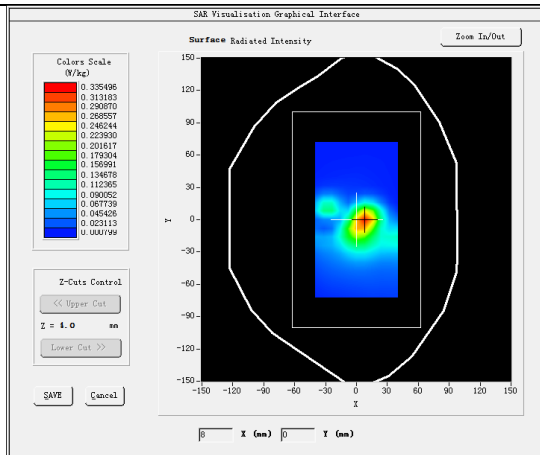
Test Mode: LTE Band 41, 1RB, High channel (Body Rear Side)

Product Description: Tablet Pc

Model: P81L

Test Date: April 08, 2022

Medium(liquid type)	HSL_2600
Frequency (MHz)	2680.0000
Relative permittivity (real part)	36.12
Conductivity (S/m)	4.70
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.200000
SAR 10g (W/Kg)	0.141052
SAR 1g (W/Kg)	0.311773
SURFACE SAR	VOLUME SAR





#31

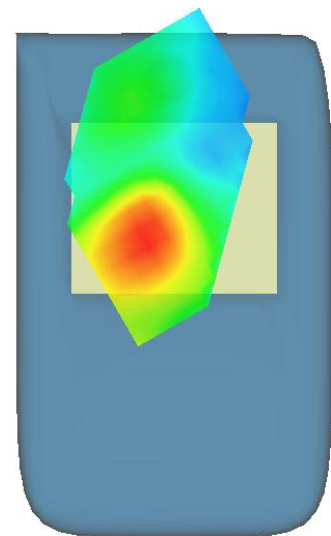
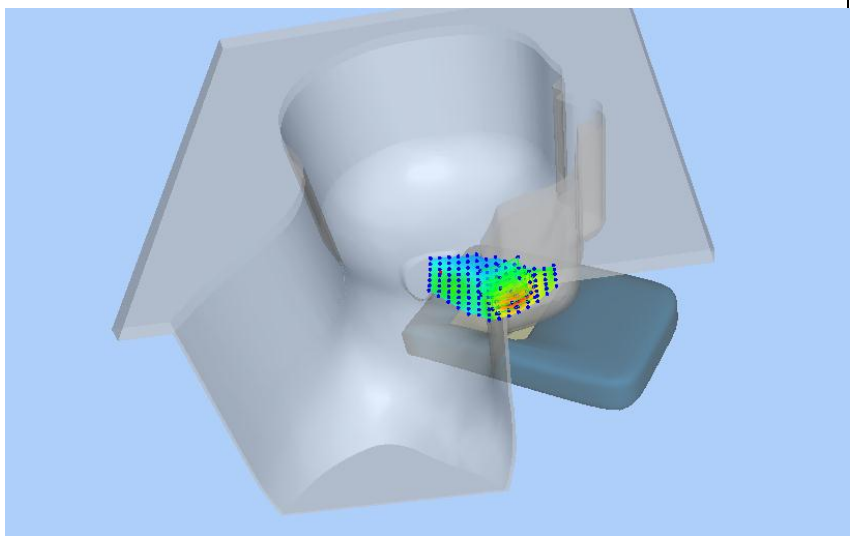
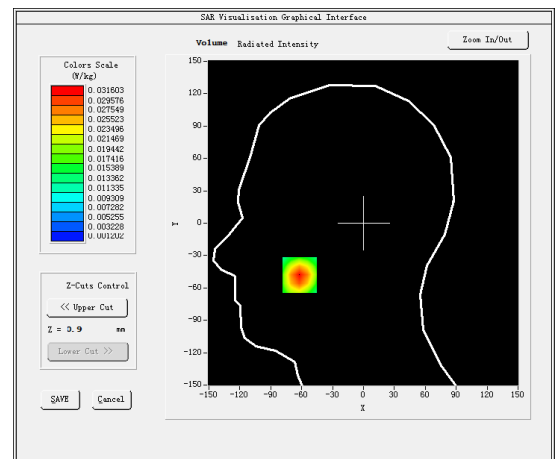
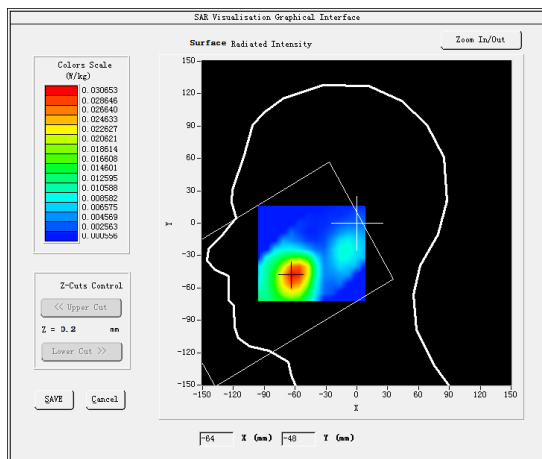
Test Mode: LTE Band 66, 1RB, High channel(Head Left Cheek)

Product Description: Tablet Pc

Model:P81L

Test Date: March 30, 2022

Medium(liquid type)	HSL _1800
Frequency (MHz)	1770.0000
Relative permittivity (real part)	56.12
Conductivity (S/m)	0.95
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.65
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.0700000
SAR 10g (W/Kg)	0.018347
SAR 1g (W/Kg)	0.031119
SURFACE SAR	VOLUME SAR





#32

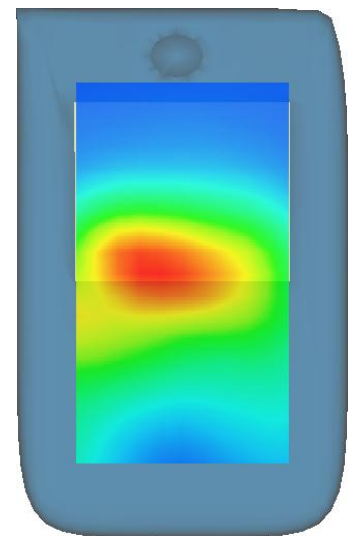
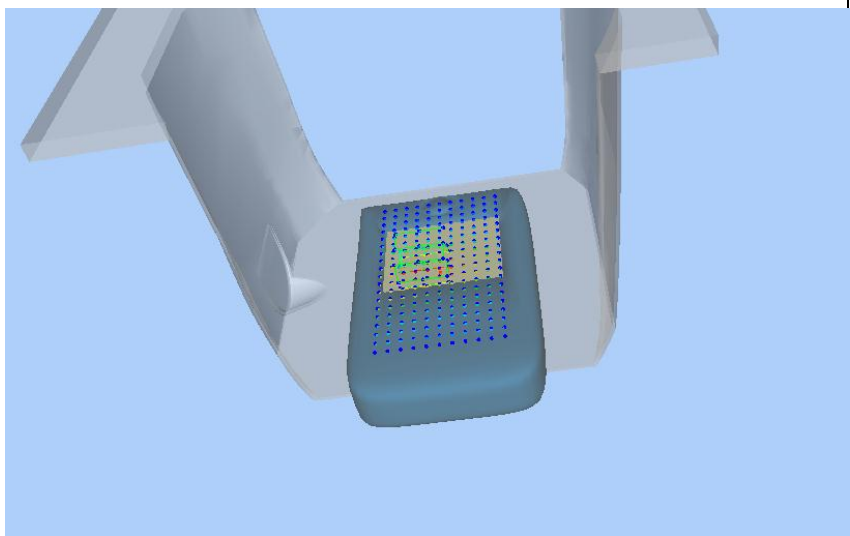
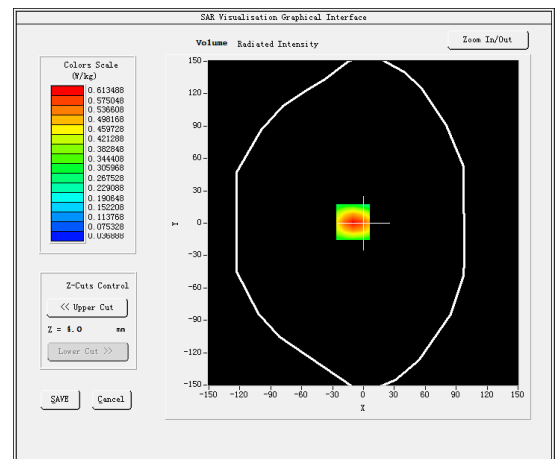
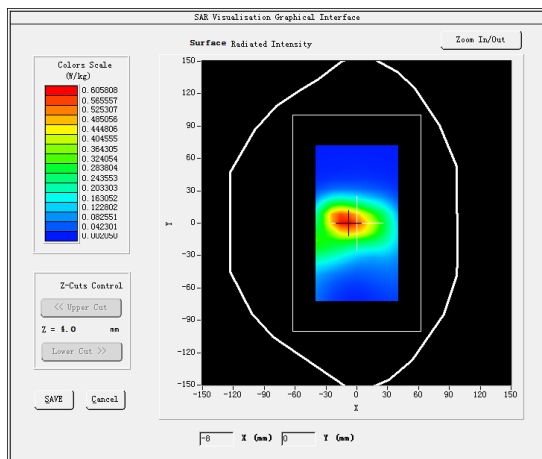
Test Mode: LTE Band 66, 1RB, High channel(Body Rear Side)

Product Description: Tablet Pc

Model:P81L

Test Date: March 30, 2022

Medium(liquid type)	HSL _1800
Frequency (MHz)	1770.0000
Relative permittivity (real part)	56.12
Conductivity (S/m)	0.95
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.65
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.380000
SAR 10g (W/Kg)	0.340651
SAR 1g (W/Kg)	0.605568
SURFACE SAR	VOLUME SAR





#33

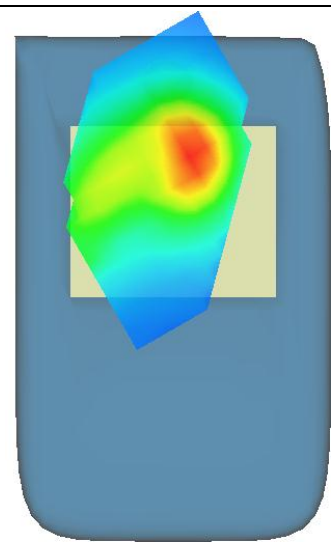
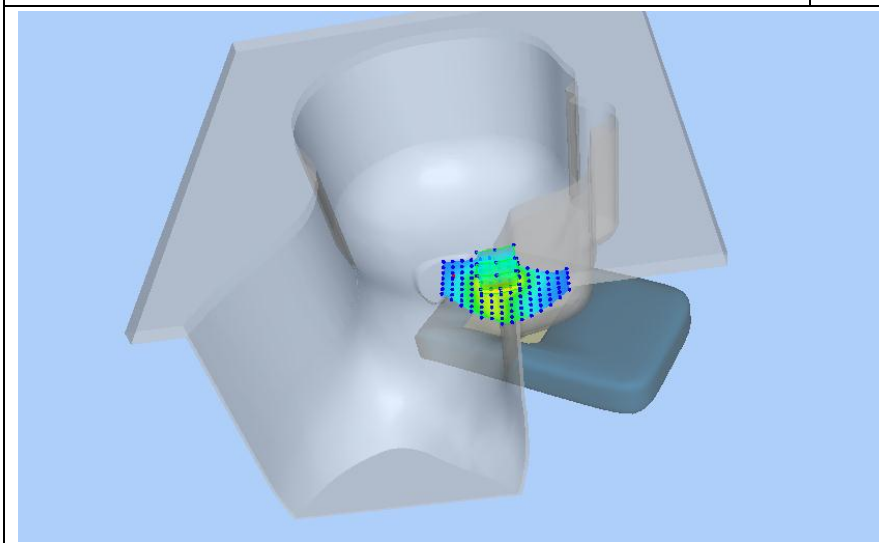
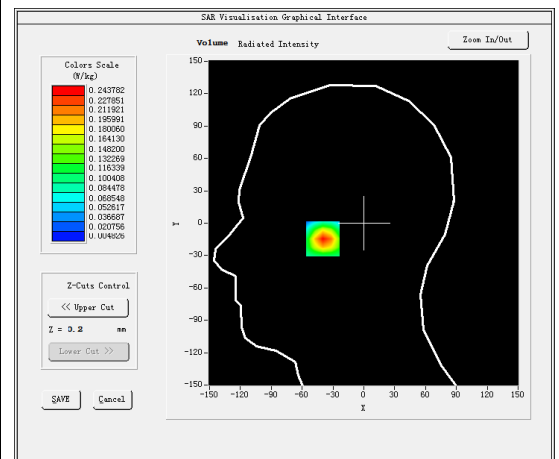
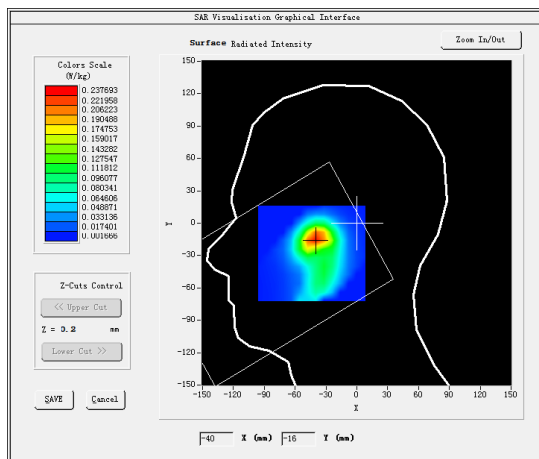
Test Mode: 802.11g (WiFi2.4G), High channel (Head Left Cheek)

Product Description: Tablet Pc

Model: P81L

Test Date: April 06, 2022

Medium (liquid type)	HSL_2450
Frequency (MHz)	2462.0000
Relative permittivity (real part)	40.03
Conductivity (S/m)	1.79
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.91
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.870000
SAR 10g (W/Kg)	0.119641
SAR 1g (W/Kg)	0.272238
SURFACE SAR	VOLUME SAR





#34

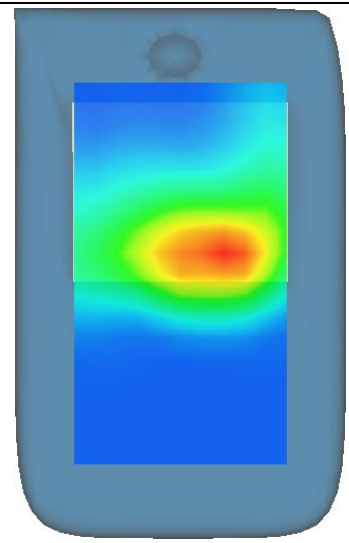
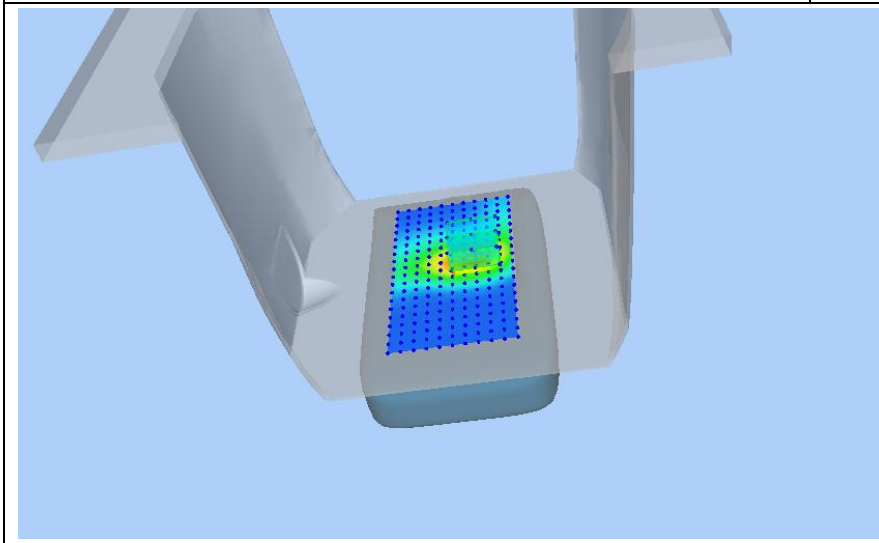
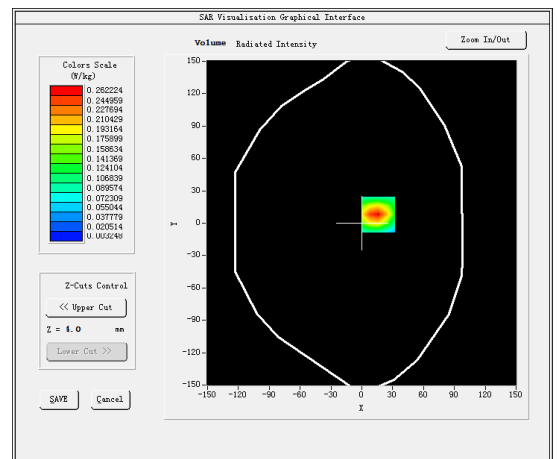
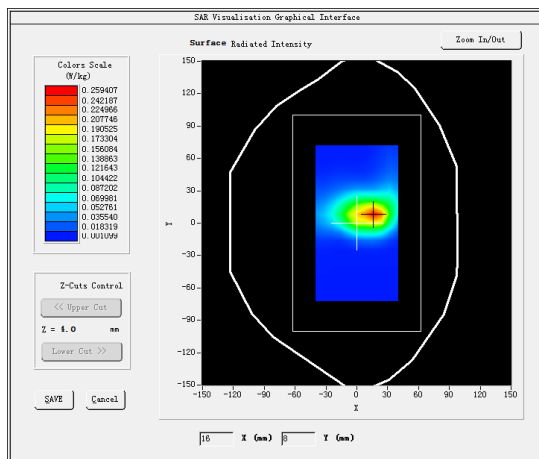
Test Mode: 802.11g (WiFi2.4G),High channel(Body Rear Side)

Product Description:Tablet Pc

Model:P81L

Test Date: April 06, 2022

Medium(liquid type)	HSL_2450
Frequency (MHz)	2462.0000
Relative permittivity (real part)	40.03
Conductivity (S/m)	1.79
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.91
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.590000
SAR 10g (W/Kg)	0.125162
SAR 1g (W/Kg)	0.296654
SURFACE SAR	VOLUME SAR





#35

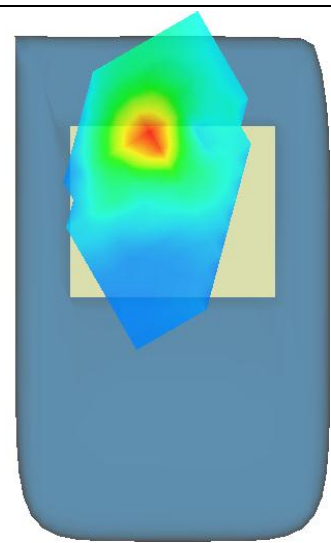
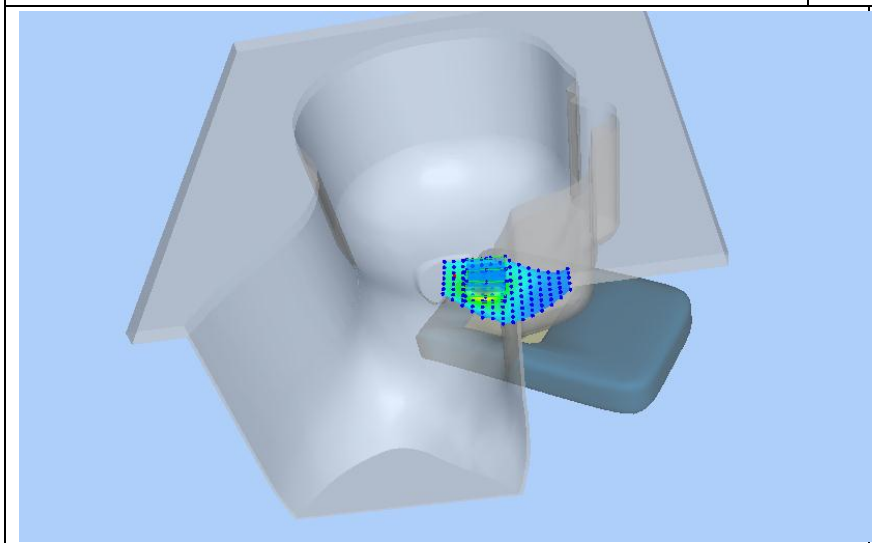
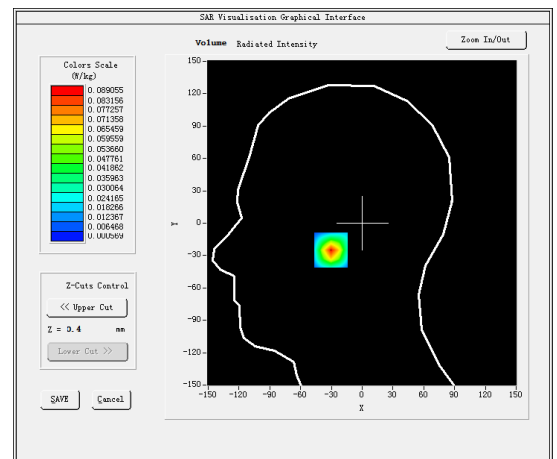
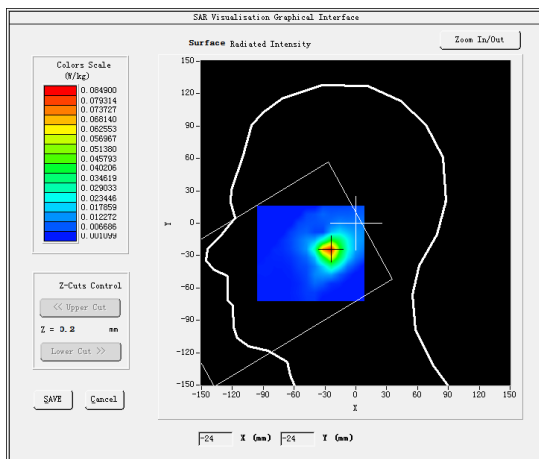
Test Mode: 802.11n20(WiFi5.2G), Middle channel (Head Left Cheek)

Product Description: Tablet Pc

Model:P81L

Test Date: April 11, 2022

Medium(liquid type)	HSL_5200
Frequency (MHz)	5200.0000
Relative permittivity (real part)	49.05
Conductivity (S/m)	5.36
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.50
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.540000
SAR 10g (W/Kg)	0.034768
SAR 1g (W/Kg)	0.103778
SURFACE SAR	VOLUME SAR





#36

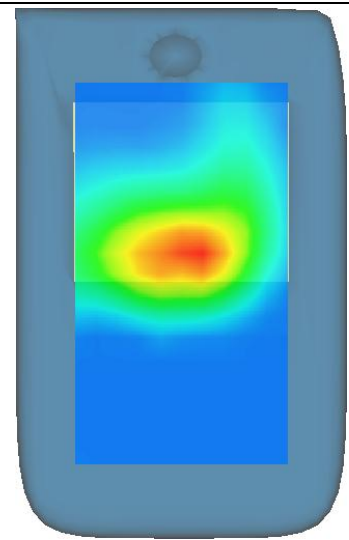
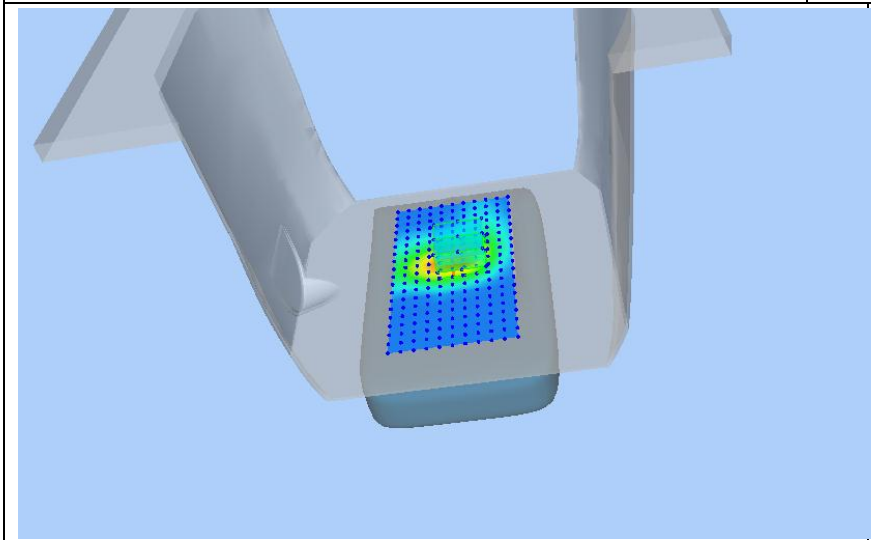
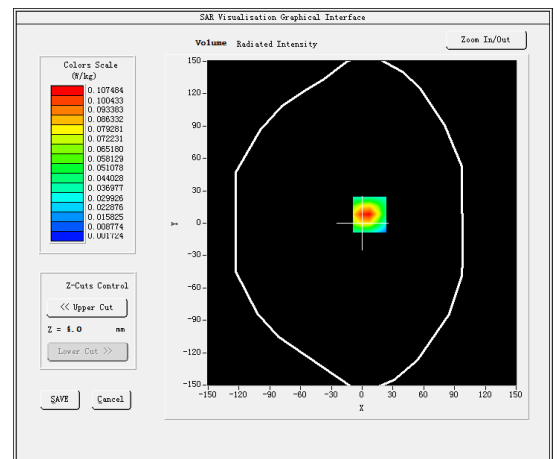
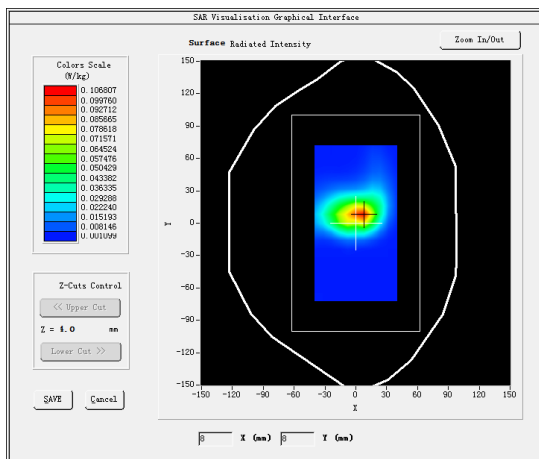
Test Mode: 802.11n20(WiFi5.2G), Middle channel (Body Rear Side)

Product Description: Tablet Pc

Model:P81L

Test Date: April 11, 2022

Medium(liquid type)	HSL_5200
Frequency (MHz)	5200.0000
Relative permittivity (real part)	49.05
Conductivity (S/m)	5.36
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.50
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.460000
SAR 10g (W/Kg)	0.051457
SAR 1g (W/Kg)	0.122567
SURFACE SAR	VOLUME SAR





#37

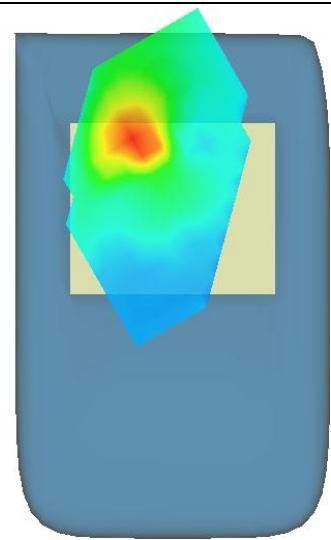
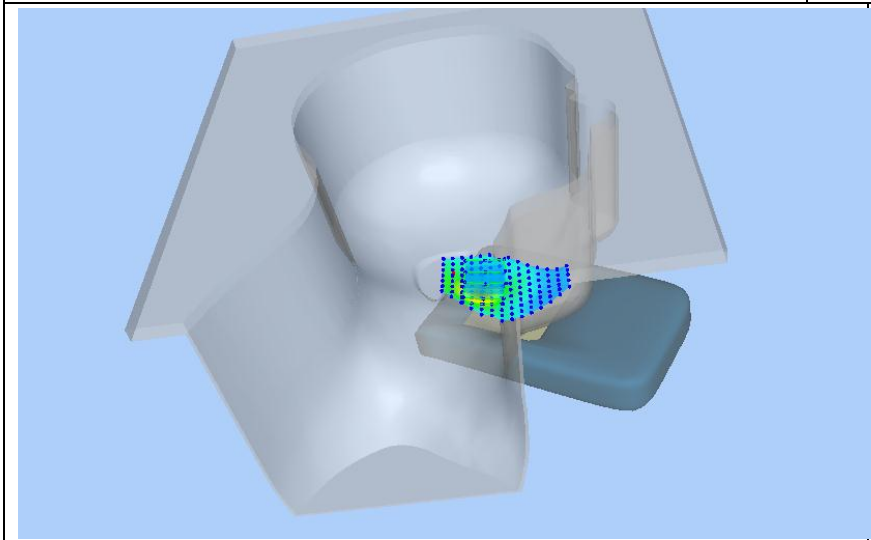
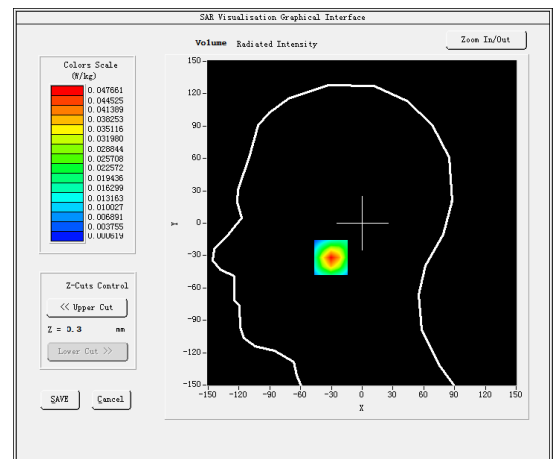
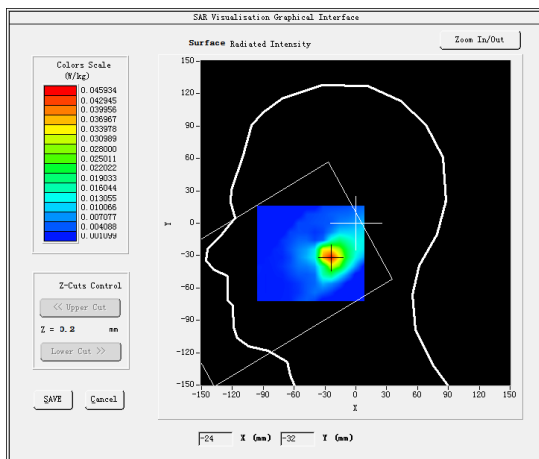
Test Mode: 802.11a (WiFi5.8G), High channel (Head Left Cheek)

Product Description: Tablet Pc

Model:P81L

Test Date:April 13, 2022

Medium(liquid type)	HSL_5800
Frequency (MHz)	5825.0000
Relative permittivity (real part)	48.26
Conductivity (S/m)	5.97
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.50
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.090000
SAR 10g (W/Kg)	0.020233
SAR 1g (W/Kg)	0.056689
SURFACE SAR	VOLUME SAR





#38

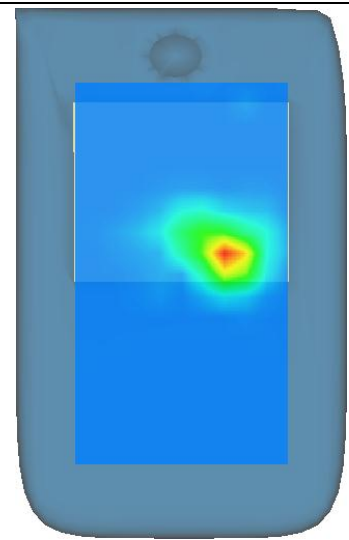
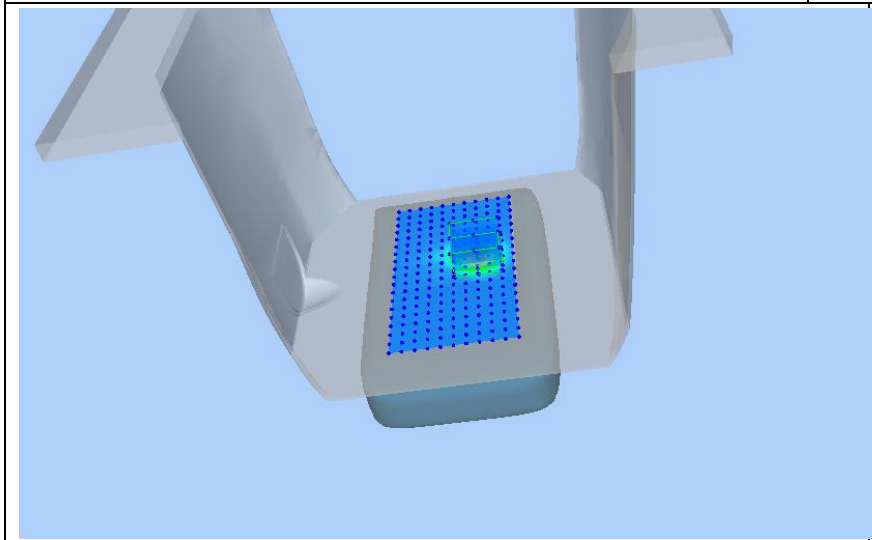
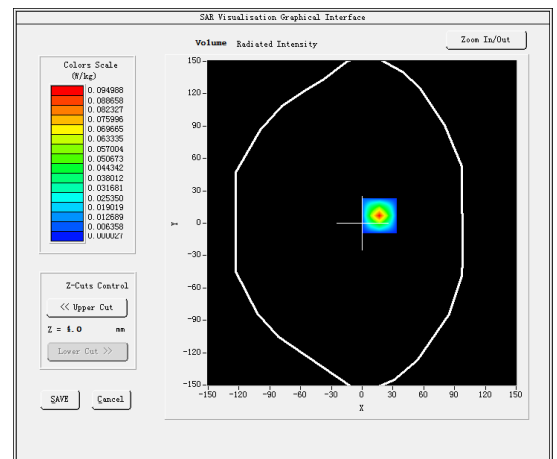
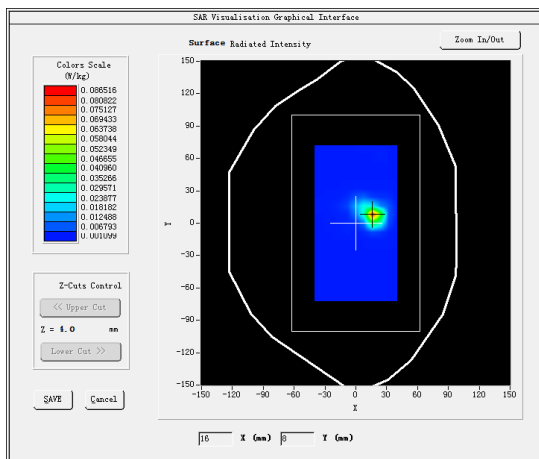
Test Mode: 802.11a(WiFi5.8G), High channel (Body Rear Side)

Product Description: Tablet Pc

Model:P81L

Test Date:April 13, 2022

Medium(liquid type)	HSL_5800
Frequency (MHz)	5825.0000
Relative permittivity (real part)	48.26
Conductivity (S/m)	5.97
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.50
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-3.630000
SAR 10g (W/Kg)	0.031162
SAR 1g (W/Kg)	0.109500
SURFACE SAR	VOLUME SAR





5. CALIBRATION CERTIFICATES

5.1 Probe-EPGO324 Calibration Certificate



COMOSAR E-Field Probe Calibration Report

Ref: ACR.281.2.18.SATU.A

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

**1F., XINGYUAN INDUSTRIAL PARK, TONGDA ROAD,
BAO'AN BLVD
BAO'AN DISTRICT, SHENZHEN, GUANGDONG, CHINA
MVG COMOSAR DOSIMETRIC E-FIELD PROBE
SERIAL NO.: SN 31/17 EPG0324**

Calibrated at MVG US

2105 Barrett Park Dr. - Kennesaw, GA 30144



Calibration Date: 10/06/2021

Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed in MVG USA using the CALISAR / CALIBAIR test bench, for use with a COMOSAR system only. All calibration results are traceable to national metrology institutions.



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

	<i>Name</i>	<i>Function</i>	<i>Date</i>	<i>Signature</i>
<i>Prepared by :</i>	Jérôme LUC	Product Manager	10/6/2021	<i>JS</i>
<i>Checked by :</i>	Jérôme LUC	Product Manager	10/6/2021	<i>JS</i>
<i>Approved by :</i>	Kim RUTKOWSKI	Quality Manager	10/6/2021	<i>Kim Rutkowski</i>

	<i>Customer Name</i>
<i>Distribution :</i>	Shenzhen LCS Compliance Testing Laboratory Ltd.

<i>Issue</i>	<i>Date</i>	<i>Modifications</i>
A	10/6/2021	Initial release

Page: 2/10

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

1 DEVICE UNDER TEST

Device Under Test	
Device Type	COMOSAR DOSIMETRIC E FIELD PROBE
Manufacturer	MVG
Model	SSL2
Serial Number	SN 31/17 EPG0324
Product Condition (new / used)	New
Frequency Range of Probe	0.15 GHz-6GHz
Resistance of Three Dipoles at Connector	Dipole 1: R1=0.189 MΩ Dipole 2: R2=0.203 MΩ Dipole 3: R3=0.218 MΩ

A yearly calibration interval is recommended.

2 PRODUCT DESCRIPTION

2.1 GENERAL INFORMATION

MVG's COMOSAR E field Probes are built in accordance to the IEEE 1528, OET 65 Bulletin C and CEI/IEC 62209 standards.



Figure 1 – MVG COMOSAR Dosimetric E field Dipole

Probe Length	330 mm
Length of Individual Dipoles	2 mm
Maximum external diameter	8 mm
Probe Tip External Diameter	2.5 mm
Distance between dipoles / probe extremity	1 mm

3 MEASUREMENT METHOD

The IEEE 1528, OET 65 Bulletin C, CENELEC EN50361 and CEI/IEC 62209 standards provide recommended practices for the probe calibrations, including the performance characteristics of interest and methods by which to assess their affect. All calibrations / measurements performed meet the fore mentioned standards.

3.1 LINEARITY

The evaluation of the linearity was done in free space using the waveguide, performing a power sweep to cover the SAR range 0.01W/kg to 100W/kg.

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

3.2 SENSITIVITY

The sensitivity factors of the three dipoles were determined using a two step calibration method (air and tissue simulating liquid) using waveguides as outlined in the standards.

3.3 LOWER DETECTION LIMIT

The lower detection limit was assessed using the same measurement set up as used for the linearity measurement. The required lower detection limit is 10 mW/kg.

3.4 ISOTROPY

The axial isotropy was evaluated by exposing the probe to a reference wave from a standard dipole with the dipole mounted under the flat phantom in the test configuration suggested for system validations and checks. The probe was rotated along its main axis from 0 - 360 degrees in 15 degree steps. The hemispherical isotropy is determined by inserting the probe in a thin plastic box filled with tissue-equivalent liquid, with the plastic box illuminated with the fields from a half wave dipole. The dipole is rotated about its axis (0°-180°) in 15° increments. At each step the probe is rotated about its axis (0°-360°).

3.5 BOUNDARY EFFECT

The boundary effect is defined as the deviation between the SAR measured data and the expected exponential decay in the liquid when the probe is oriented normal to the interface. To evaluate this effect, the liquid filled flat phantom is exposed to fields from either a reference dipole or waveguide. With the probe normal to the phantom surface, the peak spatial average SAR is measured and compared to the analytical value at the surface.

4 MEASUREMENT UNCERTAINTY

The guidelines outlined in the IEEE 1528, OET 65 Bulletin C, CENELEC EN50361 and CEI/IEC 62209 standards were followed to generate the measurement uncertainty associated with an E-field probe calibration using the waveguide technique. All uncertainties listed below represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2, traceable to the Internationally Accepted Guides to Measurement Uncertainty.

Uncertainty analysis of the probe calibration in waveguide					
ERROR SOURCES	Uncertainty value (%)	Probability Distribution	Divisor	ci	Standard Uncertainty (%)
Incident or forward power	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Reflected power	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Liquid conductivity	5.00%	Rectangular	$\sqrt{3}$	1	2.887%
Liquid permittivity	4.00%	Rectangular	$\sqrt{3}$	1	2.309%
Field homogeneity	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Field probe positioning	5.00%	Rectangular	$\sqrt{3}$	1	2.887%

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

Field probe linearity	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Combined standard uncertainty					5.831%
Expanded uncertainty 95 % confidence level k = 2					12.0%

5 CALIBRATION MEASUREMENT RESULTS

Calibration Parameters	
Liquid Temperature	21 °C
Lab Temperature	21 °C
Lab Humidity	45 %

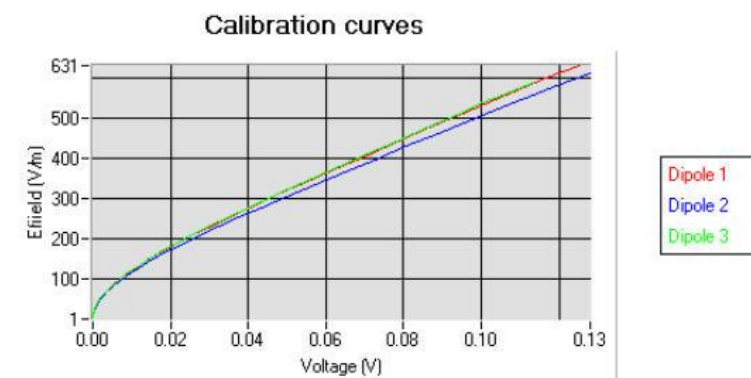
5.1 SENSITIVITY IN AIR

Normx dipole 1 ($\mu\text{V}/(\text{V}/\text{m})^2$)	Normy dipole 2 ($\mu\text{V}/(\text{V}/\text{m})^2$)	Normz dipole 3 ($\mu\text{V}/(\text{V}/\text{m})^2$)
0.80	0.83	0.68

DCP dipole 1 (mV)	DCP dipole 2 (mV)	DCP dipole 3 (mV)
95	90	93

Calibration curves $e_i=f(V)$ ($i=1,2,3$) allow to obtain H-field value using the formula:

$$E = \sqrt{E_1^2 + E_2^2 + E_3^2}$$



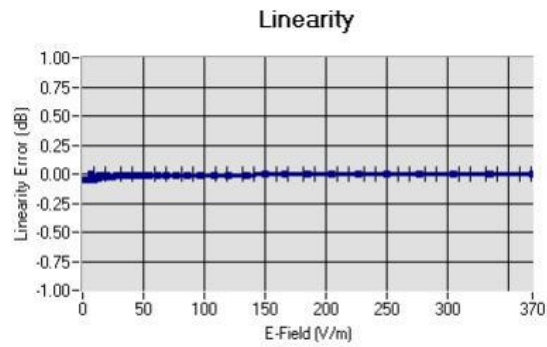
Page: 6/10

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

5.2 LINEARITYLinearity $\pm 1.13\%$ ($\pm 0.05\text{dB}$)5.3 SENSITIVITY IN LIQUID

Liquid	Frequency (MHz $\pm$ 100MHz)	Permittivity	Epsilon (S/m)	ConvF
HL450	450	42.17	0.86	1.56
BL450	450	57.65	0.95	1.60
HL750	750	40.03	0.93	1.45
BL750	750	56.83	1.00	1.50
HL850	835	42.19	0.90	1.55
BL850	835	54.67	1.01	1.59
HL900	900	42.08	1.01	1.54
BL900	900	55.25	1.08	1.60
HL1800	1800	41.68	1.46	1.65
BL1800	1800	53.86	1.46	1.68
HL1900	1900	38.45	1.45	1.86
BL1900	1900	53.32	1.56	1.93
HL2000	2000	38.26	1.38	1.83
BL2000	2000	52.70	1.51	1.89
HL2300	2300	39.44	1.62	1.95
BL2300	2300	54.52	1.77	2.01
HL2450	2450	37.50	1.80	1.91
BL2450	2450	53.22	1.89	1.95
HL2600	2600	39.80	1.99	1.89
BL2600	2600	52.52	2.23	1.94
HL5200	5200	35.64	4.67	1.50
BL5200	5200	48.64	5.51	1.56
HL5400	5400	36.44	4.87	1.44
BL5400	5400	46.52	5.77	1.47
HL5600	5600	36.66	5.17	1.48
BL5600	5600	46.79	5.77	1.53
HL5800	5800	35.31	5.31	1.50
BL5800	5800	47.04	6.10	1.55

LOWER DETECTION LIMIT: 9mW/kg

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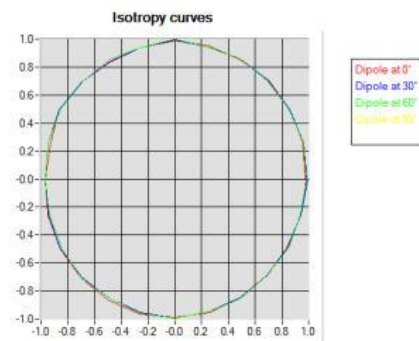
COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

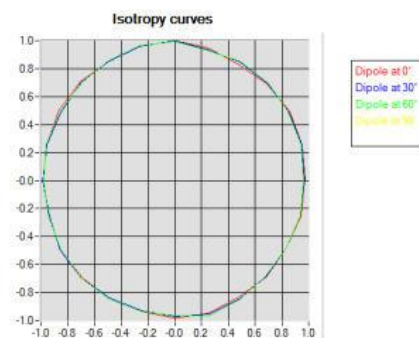
5.4 ISOTROPY

HL900 MHz

- Axial isotropy: 0.05 dB
- Hemispherical isotropy: 0.07 dB

**HL1800 MHz**

- Axial isotropy: 0.06 dB
- Hemispherical isotropy: 0.07 dB



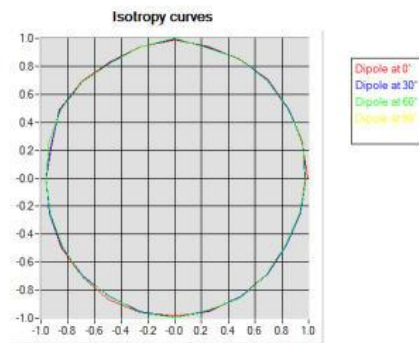


COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

HL5600 MHz

- Axial isotropy: 0.06 dB
- Hemispherical isotropy: 0.10 dB



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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.281.2.18.SATU.A

6 LIST OF EQUIPMENT

Equipment Summary Sheet				
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date
Flat Phantom	MVG	SN-20/09-SAM71	Validated. No cal required.	Validated. No cal required.
COMOSAR Test Bench	Version 3	NA	Validated. No cal required.	Validated. No cal required.
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/2019	02/2022
Reference Probe	MVG	EP 94 SN 37/08	10/2019	10/2021
Multimeter	Keithley 2000	1188656	01/2020	01/2023
Signal Generator	Agilent E4438C	MY49070581	01/2020	01/2023
Amplifier	Aethercomm	SN 046	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Power Meter	HP E4418A	US38261498	01/2020	01/2023
Power Sensor	HP ECP-E26A	US37181460	01/2020	01/2023
Directional Coupler	Narda 4216-20	01386	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Waveguide	Mega Industries	069Y7-158-13-712	Validated. No cal required.	Validated. No cal required.
Waveguide Transition	Mega Industries	069Y7-158-13-701	Validated. No cal required.	Validated. No cal required.
Waveguide Termination	Mega Industries	069Y7-158-13-701	Validated. No cal required.	Validated. No cal required.
Temperature / Humidity Sensor	Control Company	150798832	11/2020	11/2023

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5.2 SID750 Dipole Calibration Certificate



SAR Reference Dipole Calibration Report

Ref : ACR.287.3.14.SATU.A

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

**1F., XINGYUAN INDUSTRIAL PARK, TONGDA ROAD,
BAO'AN BLVD
BAO'AN DISTRICT, SHENZHEN, GUANGDONG, CHINA
SATIMO COMOSAR REFERENCE DIPOLE**

FREQUENCY: 750 MHZ

SERIAL NO.: SN 07/14 DIP 0G750-302

Calibrated at SATIMO US

2105 Barrett Park Dr. - Kennesaw, GA 30144



09/29/2021

Summary:

This document presents the method and results from an accredited SAR reference dipole calibration performed in SATIMO USA using the COMOSAR test bench. All calibration results are traceable to national metrology institutions.



SAR REFERENCE DIPOLE CALIBRATION REPORT

Ref: ACR.287.3.14.SATU.A

	<i>Name</i>	<i>Function</i>	<i>Date</i>	<i>Signature</i>
<i>Prepared by :</i>	Jérôme LUC	Product Manager	10/12/2021	<i>JS</i>
<i>Checked by :</i>	Jérôme LUC	Product Manager	10/12/2021	<i>JS</i>
<i>Approved by :</i>	Kim RUTKOWSKI	Quality Manager	10/12/2021	<i>Kim Rutkowski</i>

	<i>Customer Name</i>
<i>Distribution :</i>	Shenzhen LCS Compliance Testing Laboratory Ltd.

<i>Issue</i>	<i>Date</i>	<i>Modifications</i>
A	10/12/2021	Initial release



SAR REFERENCE DIPOLE CALIBRATION REPORT

Ref: ACR.287.3.14.SATU.A

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1 INTRODUCTION

This document contains a summary of the requirements set forth by the IEEE 1528, OET 65 Bulletin C and CEI/IEC 62209 standards for reference dipoles used for SAR measurement system validations and the measurements that were performed to verify that the product complies with the fore mentioned standards.

2 DEVICE UNDER TEST

Device Under Test	
Device Type	COMOSAR 750 MHz REFERENCE DIPOLE
Manufacturer	Satimo
Model	SID750
Serial Number	SN 07/14 DIP 0G750-302
Product Condition (new / used)	New

A yearly calibration interval is recommended.

3 PRODUCT DESCRIPTION

3.1 GENERAL INFORMATION

Satimo's COMOSAR Validation Dipoles are built in accordance to the IEEE 1528, OET 65 Bulletin C and CEI/IEC 62209 standards. The product is designed for use with the COMOSAR test bench only.



Figure 1 – Satimo COMOSAR Validation Dipole



4 MEASUREMENT METHOD

The IEEE 1528, OET 65 Bulletin C and CEI/IEC 62209 standards provide requirements for reference dipoles used for system validation measurements. The following measurements were performed to verify that the product complies with the fore mentioned standards.

4.1 RETURN LOSS REQUIREMENTS

The dipole used for SAR system validation measurements and checks must have a return loss of -20 dB or better. The return loss measurement shall be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards.

4.2 MECHANICAL REQUIREMENTS

The IEEE Std. 1528 and CEI/IEC 62209 standards specify the mechanical components and dimensions of the validation dipoles, with the dimensions frequency and phantom shell thickness dependent. The COMOSAR test bench employs a 2 mm phantom shell thickness therefore the dipoles sold for use with the COMOSAR test bench comply with the requirements set forth for a 2 mm phantom shell thickness.

5 MEASUREMENT UNCERTAINTY

All uncertainties listed below represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$, traceable to the Internationally Accepted Guides to Measurement Uncertainty.

5.1 RETURN LOSS

The following uncertainties apply to the return loss measurement:

Frequency band	Expanded Uncertainty on Return Loss
400-6000MHz	0.1 dB

5.2 DIMENSION MEASUREMENT

The following uncertainties apply to the dimension measurements:

Length (mm)	Expanded Uncertainty on Length
3 - 300	0.05 mm

5.3 VALIDATION MEASUREMENT

The guidelines outlined in the IEEE 1528, OET 65 Bulletin C, CENELEC EN50361 and CEI/IEC 62209 standards were followed to generate the measurement uncertainty for validation measurements.

Scan Volume	Expanded Uncertainty
1 g	20.3 %
10 g	20.1 %

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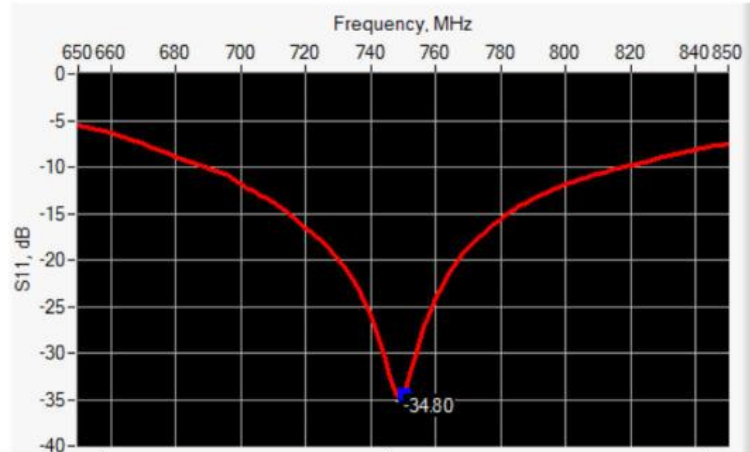


SAR REFERENCE DIPOLE CALIBRATION REPORT

Ref: ACR.287.3.14.SATU.A

6 CALIBRATION MEASUREMENT RESULTS

6.1 RETURN LOSS AND IMPEDANCE



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
750	-34.80	-20	$50.7 \Omega + 1.6 j\Omega$

6.2 MECHANICAL DIMENSIONS

Frequency MHz	L mm		h mm		d mm	
	required	measured	required	measured	required	measured
300	420.0 ±1 %.		250.0 ±1 %.		6.35 ±1 %.	
450	290.0 ±1 %.		166.7 ±1 %.		6.35 ±1 %.	
750	176.0 ±1 %.	PASS	100.0 ±1 %.	PASS	6.35 ±1 %.	PASS
835	161.0 ±1 %.		89.8 ±1 %.		3.6 ±1 %.	
900	149.0 ±1 %.		83.3 ±1 %.		3.6 ±1 %.	
1450	89.1 ±1 %.		51.7 ±1 %.		3.6 ±1 %.	
1500	80.5 ±1 %.		50.0 ±1 %.		3.6 ±1 %.	
1640	79.0 ±1 %.		45.7 ±1 %.		3.6 ±1 %.	
1750	75.2 ±1 %.		42.9 ±1 %.		3.6 ±1 %.	
1800	72.0 ±1 %.		41.7 ±1 %.		3.6 ±1 %.	
1900	68.0 ±1 %.		39.5 ±1 %.		3.6 ±1 %.	
1950	66.3 ±1 %.		38.5 ±1 %.		3.6 ±1 %.	
2000	64.5 ±1 %.		37.5 ±1 %.		3.6 ±1 %.	
2100	61.0 ±1 %.		35.7 ±1 %.		3.6 ±1 %.	
2300	55.5 ±1 %.		32.6 ±1 %.		3.6 ±1 %.	
2450	51.5 ±1 %.		30.4 ±1 %.		3.6 ±1 %.	
2600	48.5 ±1 %.		28.8 ±1 %.		3.6 ±1 %.	
3000	41.5 ±1 %.		25.0 ±1 %.		3.6 ±1 %.	
3500	37.0 ±1 %.		26.4 ±1 %.		3.6 ±1 %.	
3700	34.7 ±1 %.		26.4 ±1 %.		3.6 ±1 %.	

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7 VALIDATION MEASUREMENT

The IEEE Std. 1528, OET 65 Bulletin C and CIE/IEC 62209 standards state that the system validation measurements must be performed using a reference dipole meeting the fore mentioned return loss and mechanical dimension requirements. The validation measurement must be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. Per the standards, the dipole shall be positioned below the bottom of the phantom, with the dipole length centered and parallel to the longest dimension of the flat phantom, with the top surface of the dipole at the described distance from the bottom surface of the phantom.

7.1 HEAD LIQUID MEASUREMENT

Frequency MHz	Relative permittivity (ϵ_r)		Conductivity (σ) S/m	
	required	measured	required	measured
300	45.3 $\pm$ 5 %		0.87 $\pm$ 5 %	
450	43.5 $\pm$ 5 %		0.87 $\pm$ 5 %	
750	41.9 $\pm$ 5 %	PASS	0.89 $\pm$ 5 %	PASS
835	41.5 $\pm$ 5 %		0.90 $\pm$ 5 %	
900	41.5 $\pm$ 5 %		0.97 $\pm$ 5 %	
1450	40.5 $\pm$ 5 %		1.20 $\pm$ 5 %	
1500	40.4 $\pm$ 5 %		1.23 $\pm$ 5 %	
1640	40.2 $\pm$ 5 %		1.31 $\pm$ 5 %	
1750	40.1 $\pm$ 5 %		1.37 $\pm$ 5 %	
1800	40.0 $\pm$ 5 %		1.40 $\pm$ 5 %	
1900	40.0 $\pm$ 5 %		1.40 $\pm$ 5 %	
1950	40.0 $\pm$ 5 %		1.40 $\pm$ 5 %	
2000	40.0 $\pm$ 5 %		1.40 $\pm$ 5 %	
2100	39.8 $\pm$ 5 %		1.49 $\pm$ 5 %	
2300	39.5 $\pm$ 5 %		1.67 $\pm$ 5 %	
2450	39.2 $\pm$ 5 %		1.80 $\pm$ 5 %	
2600	39.0 $\pm$ 5 %		1.96 $\pm$ 5 %	
3000	38.5 $\pm$ 5 %		2.40 $\pm$ 5 %	
3500	37.9 $\pm$ 5 %		2.91 $\pm$ 5 %	

7.2 SAR MEASUREMENT RESULT WITH HEAD LIQUID

The IEEE Std. 1528 and CIE/IEC 62209 standards state that the system validation measurements should produce the SAR values shown below (for phantom thickness of 2 mm), within the uncertainty for the system validation. All SAR values are normalized to 1 W forward power. In bracket, the measured SAR is given with the used input power.

Software	OPENSAR V4
Phantom	SN 20/09 SAM71
Probe	SN 18/11 EPG122
Liquid	Head Liquid Values: ϵ_{ps} : 42.1 sigma : 0.89
Distance between dipole center and liquid	15.0 mm
Area scan resolution	$dx=8mm/dy=8mm$

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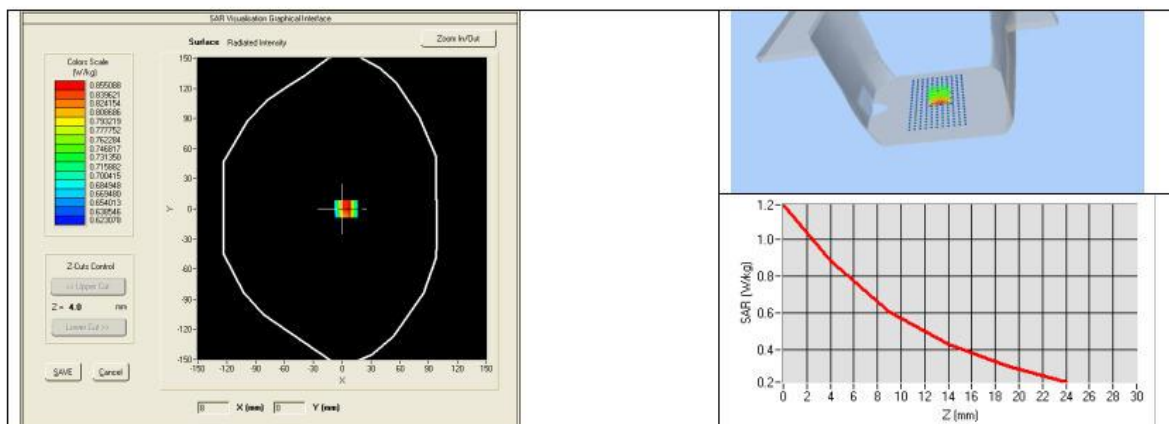


SAR REFERENCE DIPOLE CALIBRATION REPORT

Ref: ACR.287.3.14.SATU.A

Zoon Scan Resolution	dx=8mm/dy=8mm/dz=5mm
Frequency	750 MHz
Input power	20 dBm
Liquid Temperature	21 °C
Lab Temperature	21 °C
Lab Humidity	45 %

Frequency MHz	1 g SAR (W/kg/W)		10 g SAR (W/kg/W)	
	required	measured	required	measured
300	2.85		1.94	
450	4.58		3.06	
750	8.49	8.38 (0.84)	5.55	5.53 (0.55)
835	9.56		6.22	
900	10.9		6.99	
1450	29		16	
1500	30.5		16.8	
1640	34.2		18.4	
1750	36.4		19.3	
1800	38.4		20.1	
1900	39.7		20.5	
1950	40.5		20.9	
2000	41.1		21.1	
2100	43.6		21.9	
2300	48.7		23.3	
2450	52.4		24	
2600	55.3		24.6	
3000	63.8		25.7	
3500	67.1		25	



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