FCC SAR TEST REPORT

Report No.: STS2003219H01

Issued for

EyeTech Digital Systems, Inc.

1128 E Greenway Street, Suite 1, Mesa, Arizona 85203 USA

Product Name:	EyeOn
Brand Name:	eyeon™
Model Name:	EyeOn-14WE
Series Model:	N/A
FCC ID:	2AVV8-EYEON
Test Standard:	ANSI/IEEE Std. C95.1
	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. Report SAR (1g):	Body: 1.491 W/kg

ShenZhen STS Test Services Co.,Ltd.
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Test Report Certification

Applicant's name ..... : EyeTech Digital Systems, Inc.

Address ..... : 1128 E Greenway Street, Suite 1, Mesa, Arizona 85203 USA

Manufacture's Name ..... : EyeTech Digital Systems, Inc.

Address ..... : 1128 E Greenway Street, Suite 1, Mesa, Arizona 85203 USA

Product description

Product name ..... : EyeOn

Brand name ..... : eyeon™

Model name ..... : EyeOn-14WE

Series Model..... : N/A

Standards..... : ANSI/IEEE Std. C95.1-1992
FCC 47 CFR Part 2 (2.1093)
IEEE 1528: 2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test.....:

Date (s) of performance of tests.....: 03 Apr. 2020~08 Apr. 2020

Date of Issue.....: 08 Apr. 2020

Test Result.....: **Pass**

Testing Engineer **:** Aaron Bu

(Aaron Bu)

Technical Manager **:** Jason Lu

(Jason Lu)

Authorized Signatory **:** Vita Li

(Vita Li)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	08 Apr. 2020	STS2003219H01	ALL	Initial Issue
Note: **Format version** of the report -V01				

1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	EyeOn		
Brand Name	eyeon™		
Model Name	EyeOn-14WE		
Series Model	N/A		
FCC ID	2AVV8-EYEON		
Model Difference	N/A		
Battery	Rated Voltage: 7.4V Charge Limit: 8.4V Capacity: 7400mAh		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	VerC		
Software Version	windows10 Pro 64bit		
Frequency Range	2.4GHz WLAN IEEE 802.11b/g/n(HT20/40): 2412MHz to 2462 MHz 5GHz IEEE 802.11a/n/ac (20MHz): 5180 MHz to 5825 MHz 5GHz IEEE 802.11n/ac (40MHz): 5190 MHz to 5795 MHz 5GHz IEEE 802.11ac (80MHz): 5120 MHz, 5290 MHz, 5530 MHz to 5610MHz, 5775 MHz Bluetooth: 2402 MHz to 2480 MHz GPS: 1575.42 MHz		
Max. Reported SAR(1g): (Limit:1.6W/kg)	Band	Mode	Body SAR (W/kg)
	DTS	2.4G WLAN ANT A	1.480
	DTS	2.4G WLAN ANT B	0.658
	DTS	2.4G WLAN ANT A+B	1.491
	NII	5.2G WLAN ANT A	1.204
	NII	5.2G WLAN ANT B	0.183
	NII	5.2G WLAN ANT A+B	1.103
	NII	5.3G WLAN ANT A	1.297
	NII	5.3G WLAN ANT B	0.085
	NII	5.3G WLAN ANT A+B	1.137
	NII	5.6G WLAN ANT A	1.167
	NII	5.6G WLAN ANT B	0.481
	NII	5.6G WLAN ANT A+B	1.060
	NII	5.8G WLAN ANT A	1.149
	NII	5.8G WLAN ANT B	0.590
	NII	5.8G WLAN ANT A+B	0.796
	DSS	Bluetooth	0.318

FCC Equipment Class	Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX (NII)
Operating Mode:	802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM
Antenna Specification:	BT, WLAN: PIFA Antenna
Hotspot Mode:	Not Support
DTM Mode:	Not Support

1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (℃)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01

2. Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
8	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices
9	FCC KDB 616217 D04 v01r02	SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers

And Limits:

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:
Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:
Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.
The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt}\left(\frac{dW}{dm}\right) = \frac{d}{dt}\left(\frac{dW}{\rho dv}\right)$$

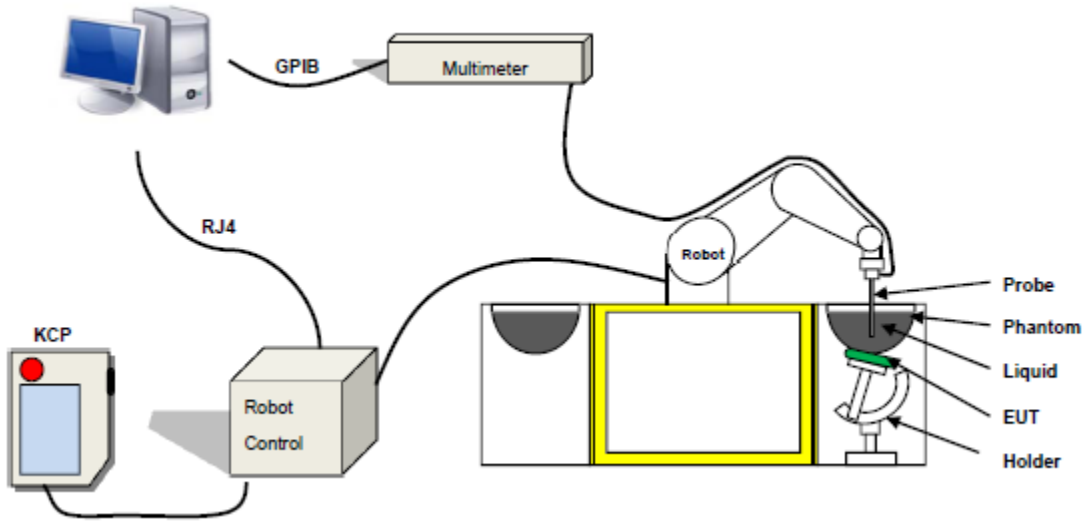
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,
ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.

The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 41/18 EPG0334 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 450 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°

Figure 1-MVG COMOSAR Dosimetric E field Dipole

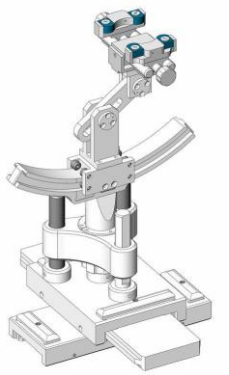
3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

SN 32/14 SAM115

SN 32/14 SAM116

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.4. Tissue Simulating Liquids

4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Head Tissue

Frequency (MHz)	cellulose	DGBE	HEC	NaCl	Preventol	Sugar	X100	Water	Conductivity	Permittivity
	%	%	%	%	%	%	%	%	σ	εr
750	0.2	/	/	1.4	0.2	57.0	/	41.1	0.89	41.9
835	0.2	/	/	1.4	0.2	57.9	/	40.3	0.90	41.5
900	0.2	/	/	1.4	0.2	57.9	/	40.3	0.97	41.5
1800	/	44.5	/	0.3	/	/	30.45	55.2	1.4	40.0
1900	/	44.5	/	0.3	/	/	30.45	55.2	1.4	40.0
2000	/	44.5	/	0.3	/	/	/	55.2	1.4	40.0
2450	/	44.9	/	0.1	/	/	/	55.0	1.80	39.2
2600	/	45.0	/	0.1	/	/	/	54.9	1.96	39.0

Body Tissue

Frequency (MHz)	cellulose	DGBE	HEC	NaCl	Preventol	Sugar	X100	Water	Conductivity	Permittivity
	%	%	%	%	%	%	%	%	σ	εr
750	0.2	/	/	0.9	0.1	47.2	/	51.7	0.96	55.5
835	0.2	/	/	0.9	0.1	48.2	/	50.8	0.97	55.2
900	0.2	/	/	0.9	0.1	48.2	/	50.8	1.05	55.0
1800	/	29.4	/	0.4	/	/	30.45	70.2	1.52	53.3
1900	/	29.4	/	0.4	/	/	30.45	70.2	1.52	53.3
2000	/	29.4	/	0.4	/	/	/	70.2	1.52	53.3
2450	/	31.3	/	0.1	/	/	/	68.6	1.95	52.7
2600	/	31.7	/	0.1	/	/	/	68.2	2.16	52.3

Tissue dielectric parameters for head and body phantoms				
Frequency	εr		σ S/m	
	Head	Body	Head	Body
300	45.3	58.2	0.87	0.92
450	43.5	56.7	0.87	0.94
900	41.5	55.0	0.97	1.05
1450	40.5	54.0	1.20	1.30
1800	40.0	53.3	1.40	1.52
2450	39.2	52.7	1.80	1.95
3000	38.5	52.0	2.40	2.73
5800	35.3	48.2	5.27	6.00

LIQUID MEASUREMENT RESULTS

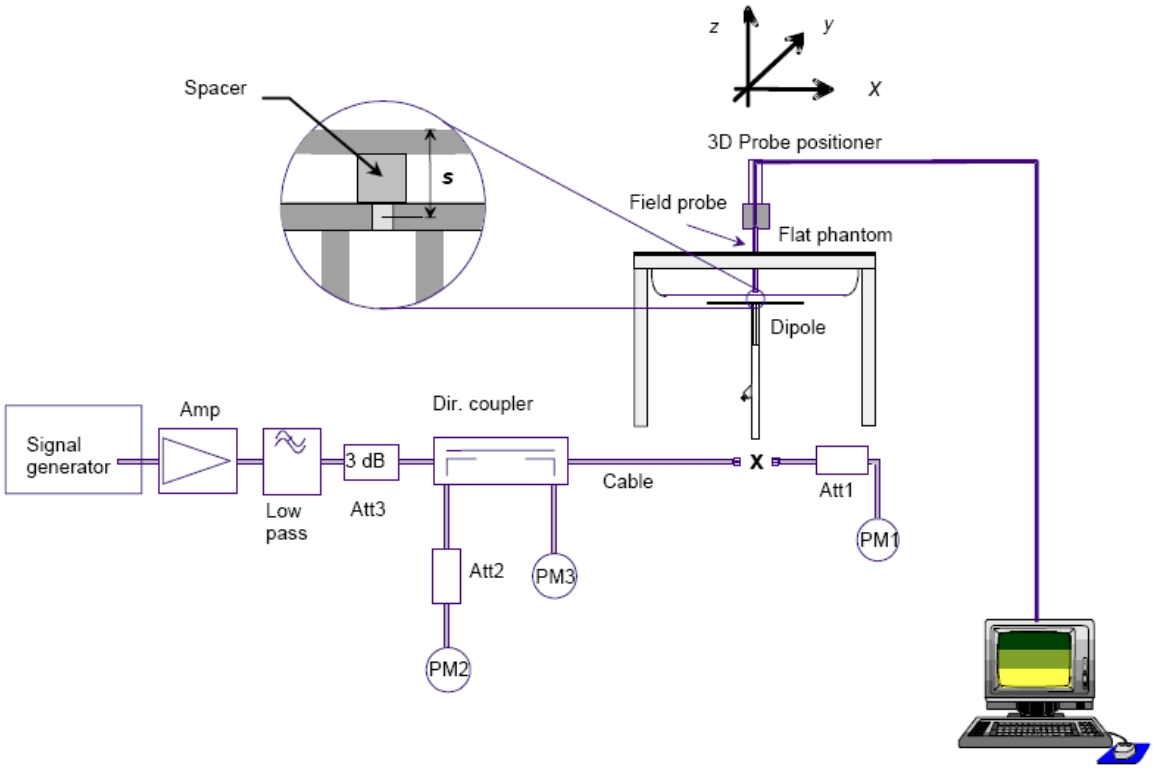
Date	Ambient condition		Body Simulating Liquid		Parameters	Target	Measured	Deviation [%]	Limited [%]
	Temp. [°C]	Humidity [%]	Frequency	Temp. [°C]					
2020-04-01	21.9	54	2450 MHz	21.7	Permittivity:	52.7	53.24	1.02	±5
					Conductivity:	1.95	1.97	1.03	±5
2020-04-02	21.7	52	5200 MHz	21.4	Permittivity:	49.0	48.29	-1.45	±5
					Conductivity:	5.30	5.20	-1.89	±5
2020-04-03	22.7	59	5300 MHz	22.5	Permittivity:	48.70	49.15	0.92	±5
					Conductivity:	5.53	5.36	-3.07	±5
2020-04-07	21.9	54	5600 MHz	21.6	Permittivity:	48.5	48.93	0.89	±5
					Conductivity:	5.77	5.83	1.04	±5
2020-04-08	21.7	56	5800 MHz	21.4	Permittivity:	48.2	47.59	-1.27	±5
					Conductivity:	6.00	6.09	1.50	±5

5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %.

Freq.(MHz)	Power (mW)	Tested Value (W/Kg)	Normalized SAR (W/kg/W)	Target (W/Kg/W)	Tolerance (%)	Date
2450 Body	100	5.321	53.21	52.4	1.55	2020-04-01
5200 Body	100	15.619	156.19	159	-1.77	2020-04-02
5300 Body	100	16.683	166.83	166.4	0.26	2020-04-03
5600 Body	100	17.409	174.09	173.8	0.17	2020-04-07
5800 Body	100	18.395	183.95	181.2	1.52	2020-04-08

Note:

1. The tolerance limit of System validation ±10%.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.

6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:
The following steps are used for each test position

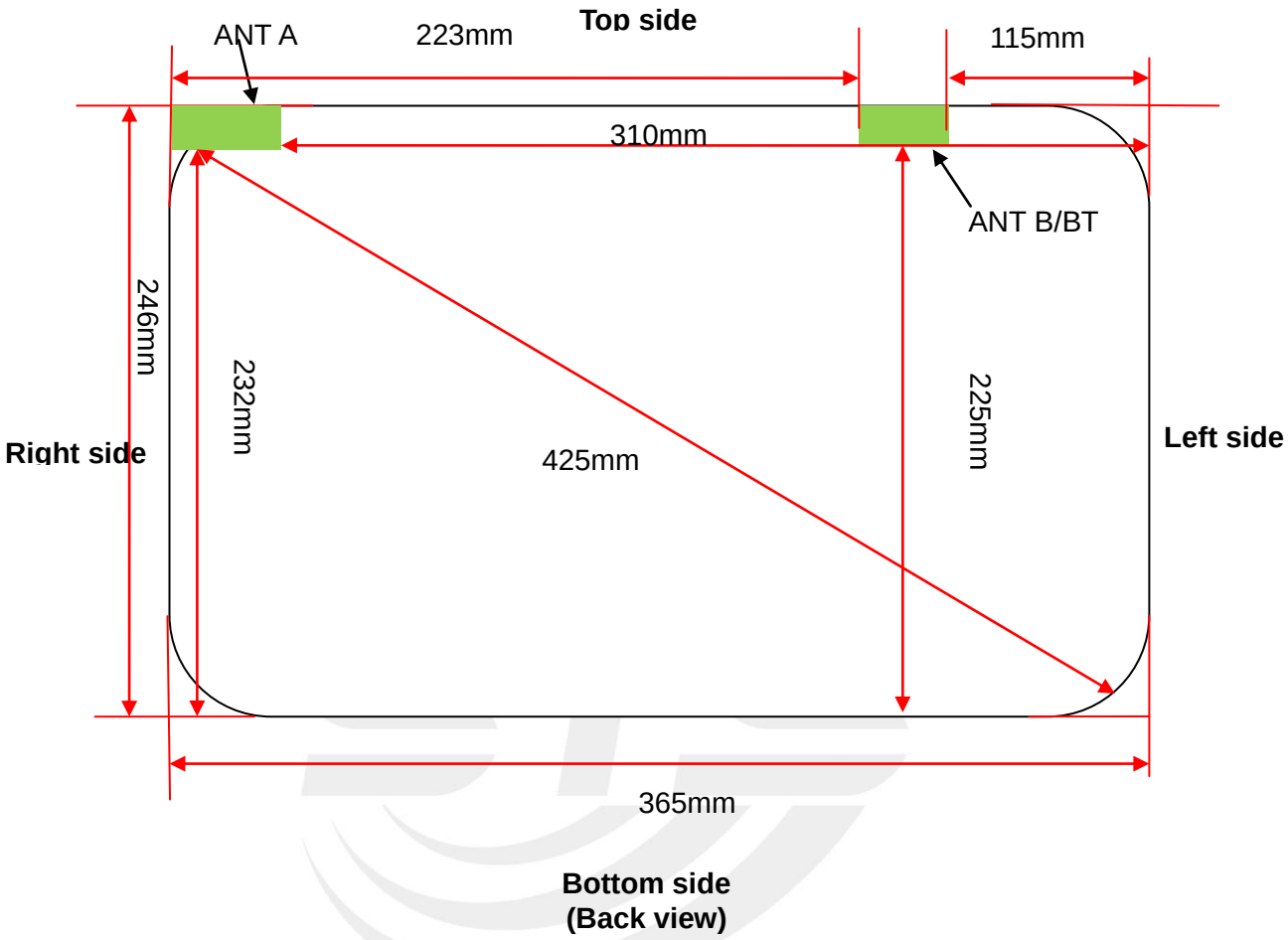
- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➢ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.
When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

It is a EyeOn-14WE



WWAN Antenna

WLAN/BT Antenna

Note:

1. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.
2. The EUT has no Power Grip.

7.1 SAR test exclusion consider table

According with FCC KDB 447498 D01, appendix A, <SAR test exclusion thresholds for 100MHz ~6GHz and≤50mm＞table, this device SAR test configurations consider as following:

Band	Mode	Maxim um power		Test Position Configurations				
		dBm	mW	Back Side	Left Edge	Right Edge	Top Edge	Bottom Edge
WLAN 2.4 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			10	2696	10	10	1916
	802.11b	17.02	50.35	Yes	No	Yes	Yes	No
WLAN 2.4 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			10	746	1826	10	1846
	802.11b	17.07	50.93	Yes	No	No	Yes	No
WLAN 2.4 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			10	2696	10	10	1916
	802.11n	11.79	15.10	Yes	No	Yes	Yes	No
WLAN 2.4 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			10	746	1826	10	1846
	802.11n	11.31	13.52	Yes	No	No	Yes	No
WLAN 5.2 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			7	2666	7	7	1886
	802.11a	14.49	28.12	Yes	Yes	No	No	Yes
WLAN 5.2 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			7	716	1796	7	1816
	802.11a	14.57	28.64	No	Yes	No	Yes	No
WLAN 5.2 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			7	2666	7	7	1886
	802.11n	9.78	9.51	No	No	Yes	No	Yes
WLAN 5.2 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			7	716	1796	7	1816
	802.11n	9.28	8.47	No	Yes	No	Yes	No
WLAN 5.3 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			6	2665	6	6	1885
	802.11a	14.54	28.45	Yes	No	Yes	Yes	No
WLAN 5.3 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			6	725	1795	6	1815
	802.11a	14.69	28.64	Yes	No	No	Yes	No

WLAN 5.3 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			6	2665	6	6	1885
	802.11n	9.85	9.66	Yes	No	Yes	Yes	No
WLAN 5.3 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			6	725	1795	6	1815
	802.11n	9.33	8.57	Yes	No	No	Yes	No
WLAN 5.6 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			6	2665	6	6	1885
	802.11a	14.28	26.79	Yes	No	Yes	Yes	No
WLAN 5.6 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			6	725	1795	6	1815
	802.11a	13.85	24.27	Yes	No	No	Yes	No
WLAN 5.6 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			6	2665	6	6	1885
	802.11n	9.83	9.62	Yes	No	Yes	Yes	No
WLAN 5.6 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			6	725	1795	6	1815
	802.11n	8.60	7.24	Yes	No	No	Yes	No
WLAN 5.8 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			6	2662	6	6	1882
	802.11a	9.30	8.51	Yes	No	Yes	Yes	No
WLAN 5.8 G ANT B	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			6	722	1792	6	1812
	802.11a	8.06	6.40	Yes	No	No	Yes	No
WLAN 5.8 G ANT A	Distance to User			<5mm	310mm	<5mm	<5mm	232m
	exclusion threshold			6	2662	6	6	1882
	802.11n	5.80	3.80	No	No	No	No	No
WLAN 5.8 G ANT B	Distance to User			6	722	1792	6	1812
	exclusion threshold			6	666	1736	6	1756
	802.11n	4.42	2.77	No	No	No	No	No
Bluetooth	Distance to User			<5mm	115mm	223mm	<5mm	225m
	exclusion threshold			10	746	1826	10	1846
	GFSK	10.17	10.40	Yes	No	No	Yes	No

Note：

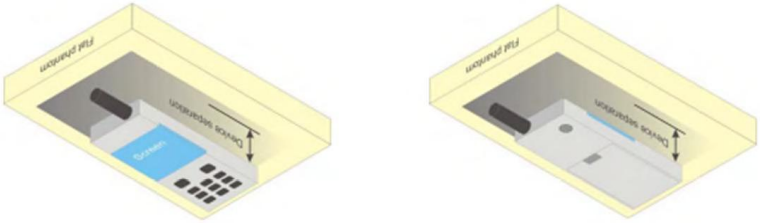
1. Paximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <5mm, 5mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤50mm are determined by:
   [(max. power of channel, including tune-up tolerance, Mw)/(min. test separation distance, mm)]*[√f(GHZ）)≤3.0 for 1-g SAR and≤7.5 for10-g extremity SAR ,f(GHz) is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation. The result is rounded to one decimal place for comparison
   For <50mm distance, we just calculate mW of the exclusion threshold value(3.0)to do compare
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
   a)[threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]Mw, at 100 MHz to 1500 MHz
   b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at＞ 1500MHz and≤6GHz
6. Per KDB 447498 D02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/ HSUPA/DC-HSDPA output power is<0.25db higher than RMC 12.2Kbps,or reported SAR with RMC 12.2kbps setting is ≤1.2W/Kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine futher SAR exclusion 8.for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.
8. Per KDB 616217 D04 Exposures from antennas through the front (top) surface of the display section of a full-size tablet, away from the edges, are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary.

8. EUT Test Position

This EUT was tested in Front Face and Rear Face.

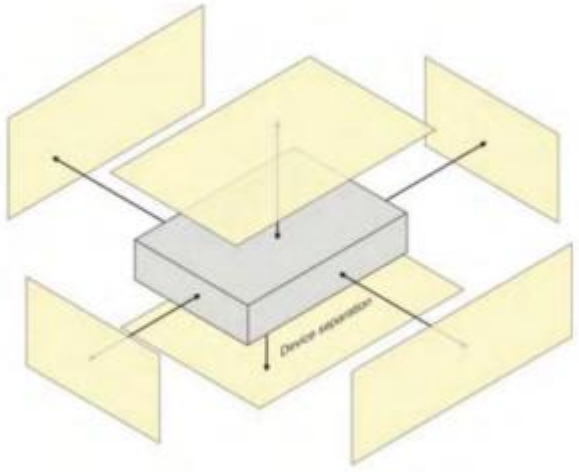
8.1 Define Two Imaginary Lines on the Handset

Body-worn Position Conditions:
Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm form that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	0.695	R	$\sqrt{3}$	√0.5	√0.5	0.28	0.28	∞
Hemispherical Isotropy	1.045	R	$\sqrt{3}$	√0.5	√0.5	0.43	0.43	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	0.685	R	$\sqrt{3}$	1	1	0.40	0.40	∞
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Readout Electronics	0.021	N	1	1	1	0.021	0.021	∞
Response Time	0	R	$\sqrt{3}$	1	1	0	0	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF ambient conditions-Noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Post-processing	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related								
Test sample positioning	2.6	N	1	1	1	2.6	2.6	∞
Device holder uncertainty	3	N	1	1	1	3	3	∞
SAR drift measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters								
Phantom uncertainty（shape and thickness uncertainty）	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity （temperature uncertainty）	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity （measured）	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity （temperature uncertainty）	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity （measured）	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty		RSS				9.79	9.59	
Expanded Uncertainty (95% Confidence interval)		K=2				19.58	19.18	

9.2 System validation Uncertainty

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	0.695	R	$\sqrt{3}$	1	1	0.40	0.40	∞
Hemispherical Isotropy	1.045	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	0.685	R	$\sqrt{3}$	1	1	0.40	0.40	∞
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	0.021	N	1	1	1	0.021	0.021	∞
Response Time	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Post-Processing	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
System validation source								
Deviation of experimental dipole from numerical dipole	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Other source contribution Uncertainty	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and set-up								
Phantom uncertainty（shape and thickness uncertainty）	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity （temperature uncertainty）	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity （measured）	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity （temperature uncertainty）	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity （measured）	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty		RSS				9.718	9.517	
Expanded Uncertainty (95% Confidence interval)		K=2				19.44	19.04	

10. Conducted Power Measurement

10.1 Test Result

WLAN (2.4Gband)

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)		
			Antenna A	Antenna B	Antenna A+B
802.11b	1	2412	16.59	16.56	N/A
	6	2437	17.02	17.07	N/A
	11	2462	16.42	16.38	N/A
802.11g	1	2412	14.55	14.48	N/A
	7	2442	14.89	14.97	N/A
	11	2462	14.34	14.41	N/A
802.11n (HT20)	1	2412	11.41	11.33	14.38
	7	2442	11.79	11.83	14.82
	11	2462	11.31	11.26	14.30
802.11n (HT40)	3	2422	11.17	11.08	14.14
	7	2442	11.22	11.06	14.15
	11	2462	11.07	10.96	14.03

WLAN (5.2Gband)

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)		
			ANT A	ANT B	ANT A+B
802.11a	36	5180	14.39	14.16	N/A
	40	5200	14.35	14.38	N/A
	48	5240	14.49	14.57	N/A
802.11 n-HT20	36	5180	9.73	9.12	12.44
	40	5200	9.68	9.15	12.43
	48	5240	9.78	9.28	12.54
802.11 n-HT40	38	5190	9.26	8.57	11.94
	46	5230	9.47	8.73	12.13
802.11 ac-VHT20	36	5180	9.66	9.02	12.36
	40	5200	9.69	9.16	12.44
	48	5240	9.76	9.31	12.55
802.11 ac-VHT40	38	5190	8.88	8.26	11.59
	46	5230	9.09	8.41	11.77
802.11 ac-VHT80	42	5210	9.15	9.69	12.44

WLAN (5.4Gband)

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)		
			ANT A	ANT B	ANT A+B
802.11a	52	5260	14.45	14.64	N/A
	60	5300	14.52	14.68	N/A
	64	5320	14.54	14.69	N/A
802.11 n-HT20	52	5260	9.71	9.32	12.53
	60	5300	9.80	9.33	12.58
	64	5320	9.85	9.30	12.59
802.11 n-HT40	54	5270	9.32	8.86	12.11
	62	5310	9.43	8.94	12.20
802.11 ac-VHT20	52	5260	9.71	9.35	12.55
	60	5300	9.78	9.33	12.57
	64	5320	9.82	9.29	12.58
802.11 ac-VHT40	54	5270	9.01	8.57	11.81
	62	5310	9.09	8.56	11.85
802.11 ac-VHT80	58	5290	9.58	9.75	12.67

WLAN (5.6Gband)

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)		
			ANT A	ANT B	ANT A+B
802.11a	100	5500	14.28	13.85	N/A
	116	5580	13.87	13.49	N/A
	140	5700	13.92	13.65	N/A
802.11 n20-HT0	100	5500	9.83	8.60	12.26
	116	5580	9.38	8.16	11.82
	140	5700	9.40	8.02	11.77
802.11 n40-HT0	102	5510	9.25	8.09	11.72
	110	5550	9.32	8.07	11.75
	134	5670	8.83	7.76	11.34
802.11 ac20-VHT0	100	5500	9.74	8.62	12.23
	116	5580	9.39	8.16	11.83
	140	5700	9.37	8.02	11.76
802.11 ac40-VHT0	102	5510	8.93	7.76	11.39
	110	5550	8.96	7.78	11.42
	134	5670	8.44	7.39	10.96
802.11 ac80-VHT0	106	5530	9.51	9.13	12.34
	122	5610	9.03	8.88	11.97

WLAN (5.8Gband)

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)		
			ANT A	ANT B	ANT A+B
802.11a	149	5745	8.87	7.73	N/A
	157	5785	9.00	7.68	N/A
	165	5825	9.30	8.06	N/A
802.11 n20-HT0	149	5745	5.34	4.06	7.755
	157	5785	5.50	4.03	7.834
	165	5825	5.80	4.42	8.172
802.11 n40-HT0	151	5755	4.92	3.55	7.298
	159	5795	5.08	3.62	7.420
802.11 ac20-VHT0	149	5745	5.34	4.07	7.763
	157	5785	5.44	4.02	7.799
	165	5825	5.73	4.36	8.110
802.11 ac40-VHT0	151	5755	4.47	3.21	6.895
	159	5795	4.61	3.16	6.955
802.11 ac80-VHT0	155	5775	5.23	5.54	8.396

Bluetooth

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
GFSK(1Mbps)	0	2402	8.03
	39	2441	10.17
	78	2480	8.77
π/4-DQPSK(2Mbps)	0	2402	5.93
	39	2441	7.61
	78	2480	5.92
8DPSK(3Mbps)	0	2402	5.00
	39	2441	6.59
	78	2480	5.03

BLE

Mode	Channel Number	Frequency (MHz)	Average Power (dBm)
GFSK(1Mbps)	0	2402	2.70
	19	2440	3.58
	39	2480	2.00

10.2 Tune-up Power

Mode	WLAN(AVG)		
	ANT A	ANT B	ANT A+B
IEEE 802.11b	16.1±1dBm	16.1±1dBm	N/A
IEEE 802.11g	14±1dBm	14±1dBm	N/A
IEEE 802.11n(HT 20)	11±1dBm	11±1dBm	14±1dBm
IEEE 802.11n(HT 40)	11±1dBm	11±1dBm	14±1dBm

WLAN (5.2Gband)

Mode	WLAN(AVG)		
	ANT A	ANT B	ANT A+B
802.11a	14±1dBm	14±1dBm	N/A
802.11 n20-HT0	9±1dBm	9±1dBm	12±1dBm
802.11 n40-HT0	9±1dBm	8±1dBm	12±1dBm
802.11 ac20-VHT0	9±1dBm	9±1dBm	12±1dBm
802.11 ac40-VHT0	9±1dBm	9±1dBm	11±1dBm
802.11 ac80-VHT0	9±1dBm	9±1dBm	12±1dBm

WLAN (5.3Gband)

Mode	WLAN(AVG)		
	ANT A	ANT B	ANT A+B
802.11a	14±1dBm	14±1dBm	N/A
802.11 n20-HT0	9±1dBm	9±1dBm	12±1dBm
802.11 n40-HT0	9±1dBm	8±1dBm	12±1dBm
802.11 ac20-VHT0	9±1dBm	9±1dBm	12±1dBm
802.11 ac40-VHT0	9±1dBm	8±1dBm	11±1dBm
802.11 ac80-VHT0	9±1dBm	9±1dBm	12±1dBm

WLAN (5.6Gband)

Mode	WLAN(AVG)		
	ANT A	ANT B	ANT A+B
802.11a	14±1dBm	13±1dBm	N/A
802.11 n20-HT0	9±1dBm	8±1dBm	12±1dBm
802.11 n40-HT0	9±1dBm	8±1dBm	11±1dBm
802.11 ac20-VHT0	9±1dBm	8±1dBm	12±1dBm
802.11 ac40-VHT0	8±1dBm	7±1dBm	11±1dBm
802.11 ac80-VHT0	9±1dBm	9±1dBm	12±1dBm

WLAN (5.8Gband)

Mode	WLAN(AVG)		
	ANT A	ANT B	ANT A+B
802.11a	9±1dBm	8±1dBm	N/A
802.11 n20-HT0	5±1dBm	4±1dBm	8±1dBm
802.11 n40-HT0	5±1dBm	3±1dBm	7±1dBm
802.11 ac20-VHT0	5±1dBm	4±1dBm	8±1dBm
802.11 ac40-VHT0	4±1dBm	3±1dBm	6±1dBm
802.11 ac80-VHT0	5±1dBm	5±1dBm	8±1dBm

BT

Mode	BT(AVG)	
GFSK	Low	8±1dBm
	Middle	10±1dBm
	High	8±1dBm
π/4-DQPSK	6±1dBm	
8DPSK	6±1dBm	

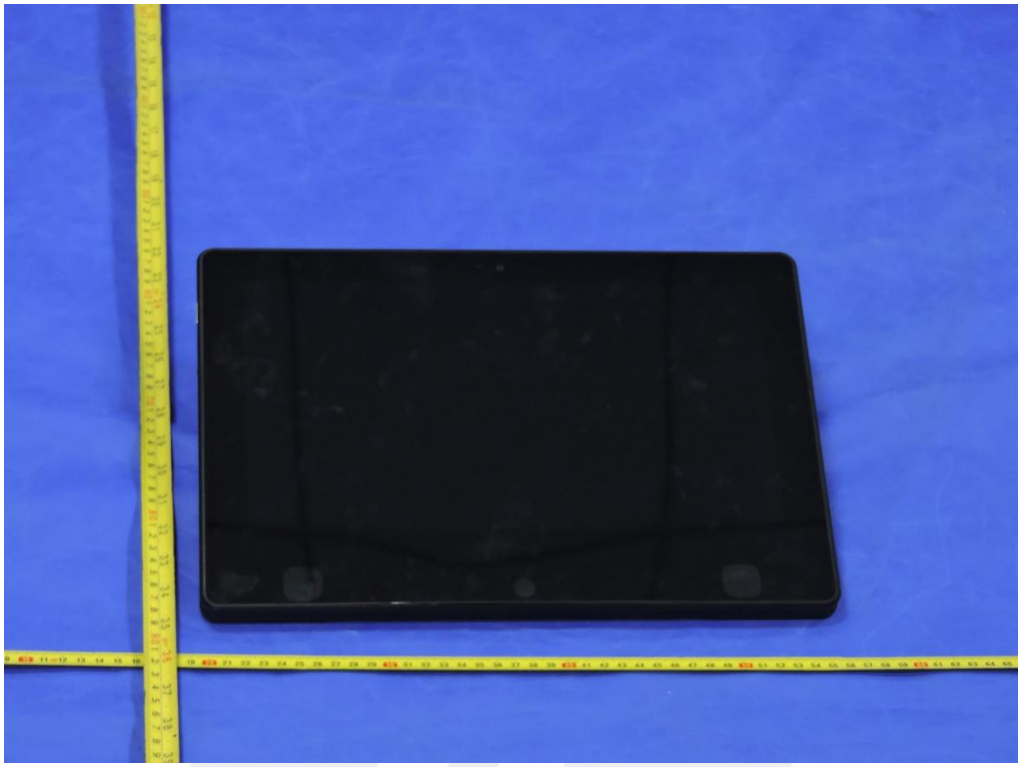
BLE

Mode	BLE(AVG)
GFSK	3±1dBm

11. EUT and Test Setup Photo

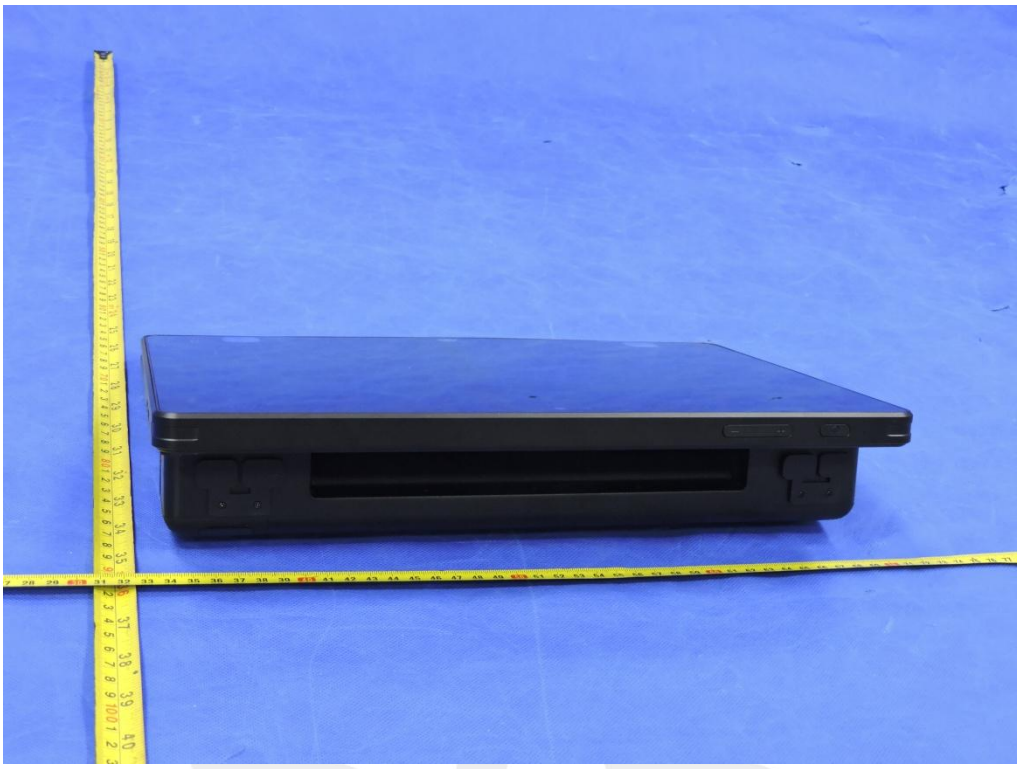
11.1 EUT Photo

Front side

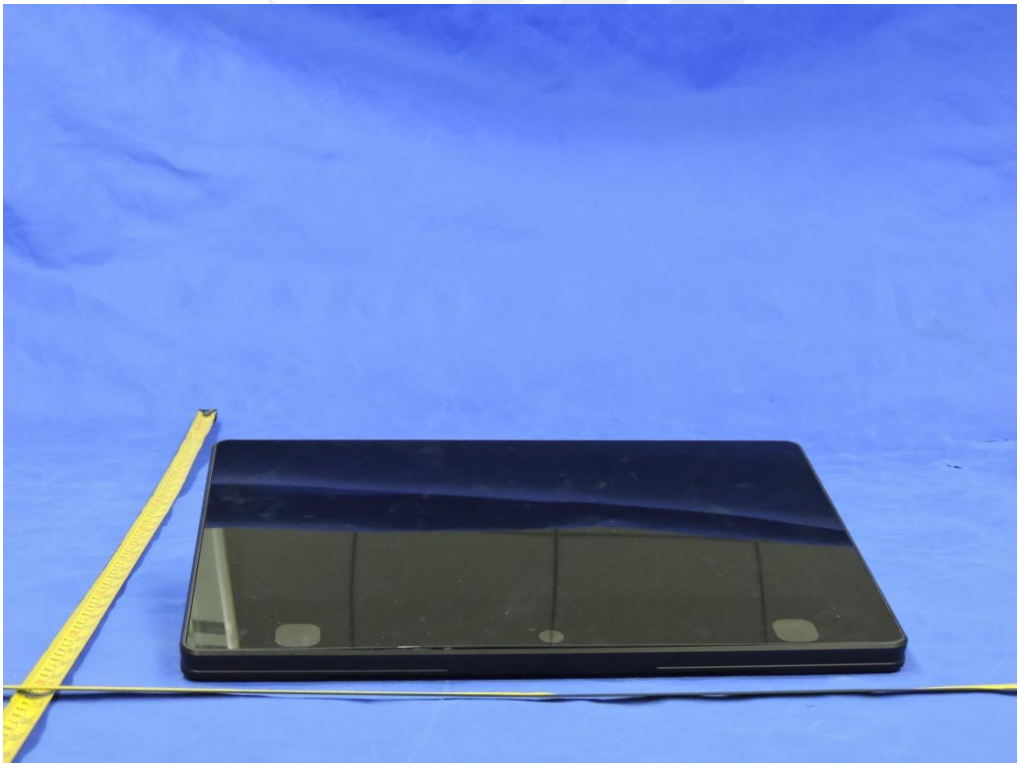


Back side

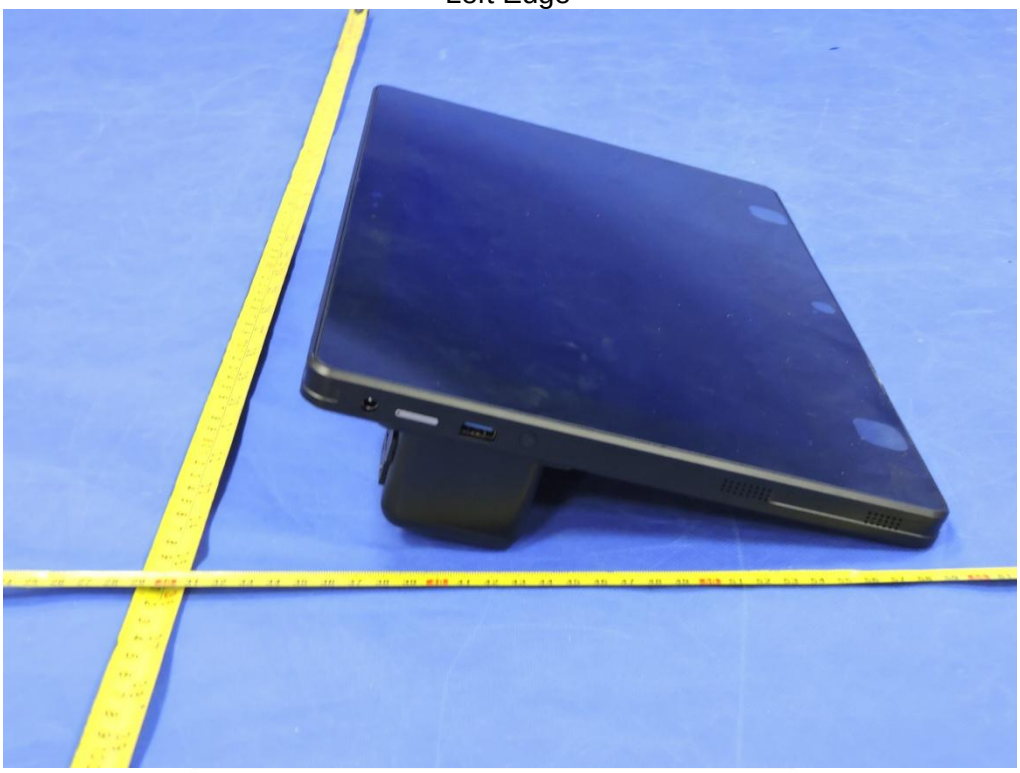
Top Edge



Bottom Edge



Left Edge

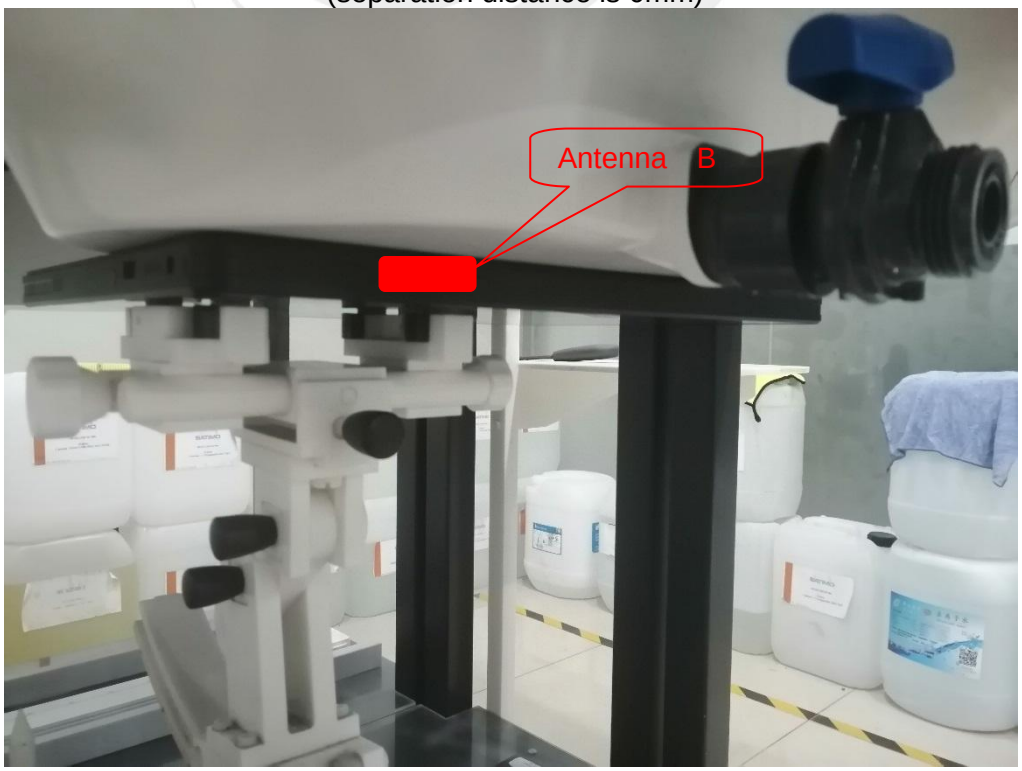


Right Edge

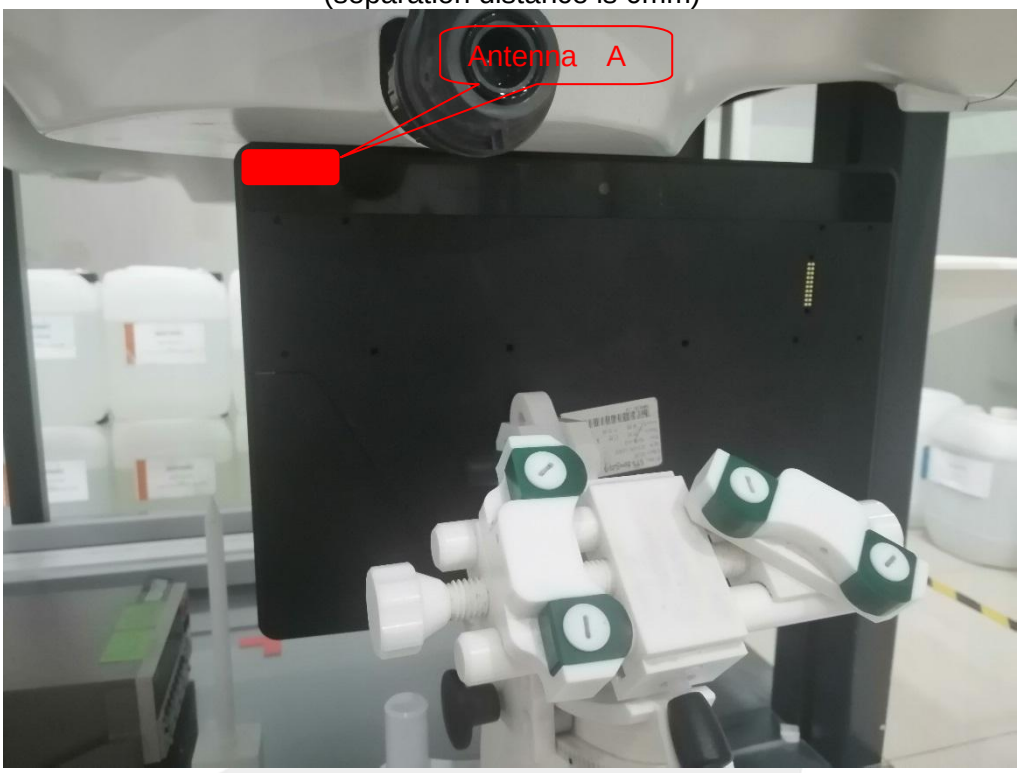
11.2 Setup Photo

Body Back side-1
(separation distance is 0mm)

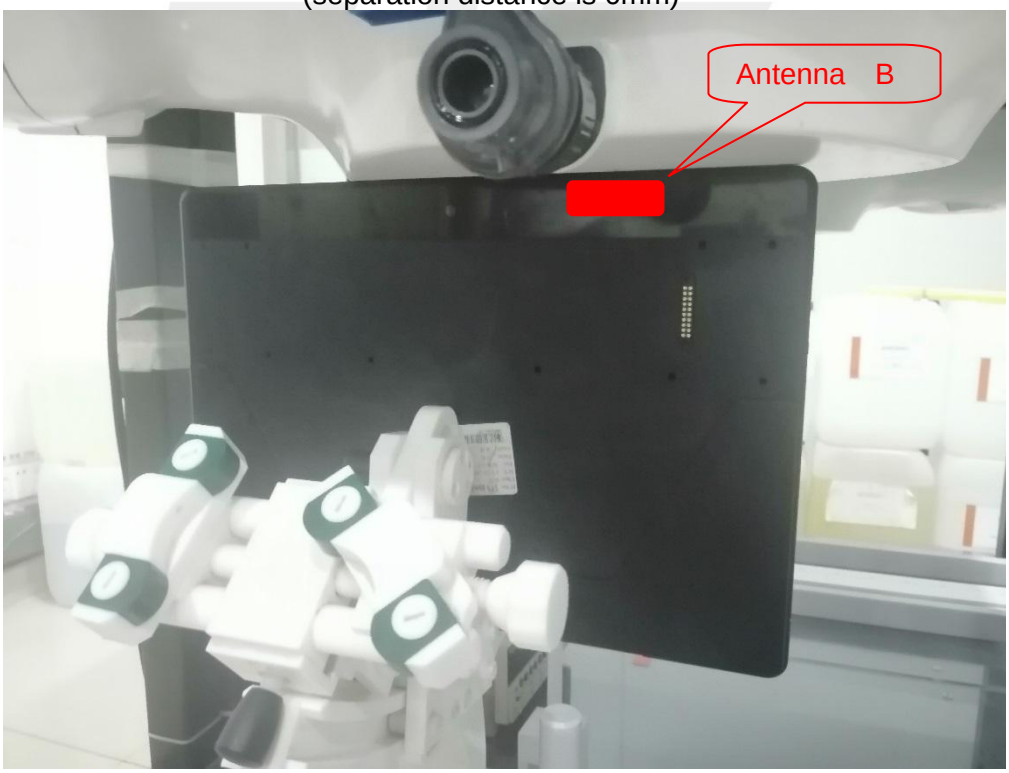
Body Back side-2
(separation distance is 0mm)



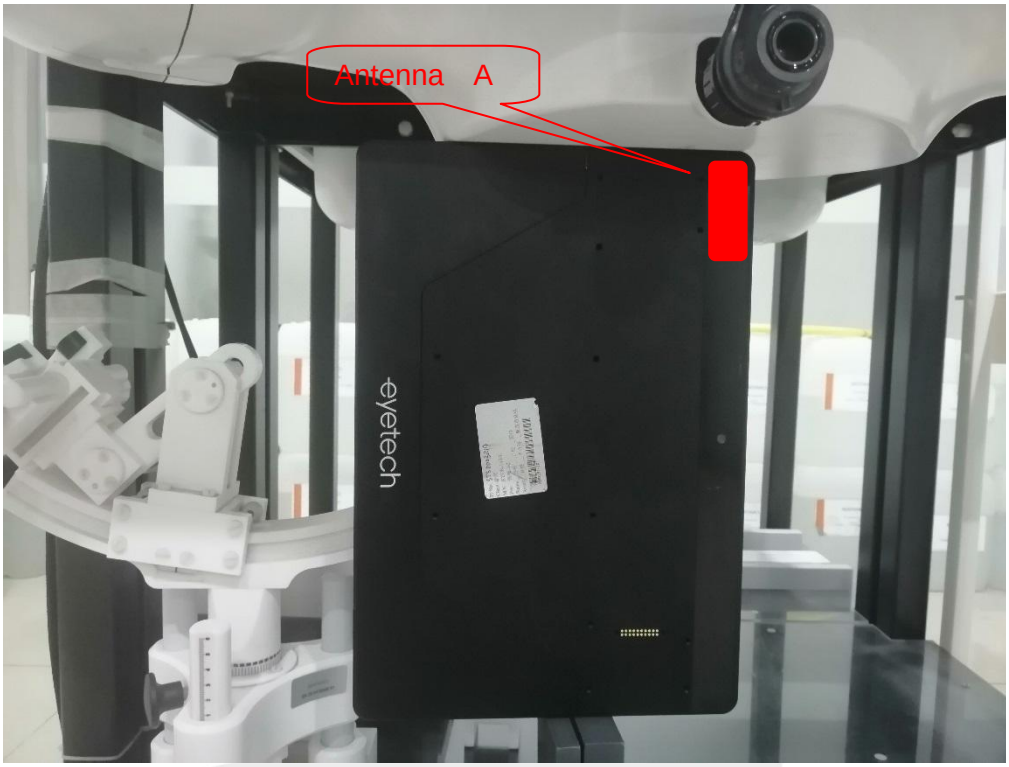
Right Edge-1
(separation distance is 0mm)



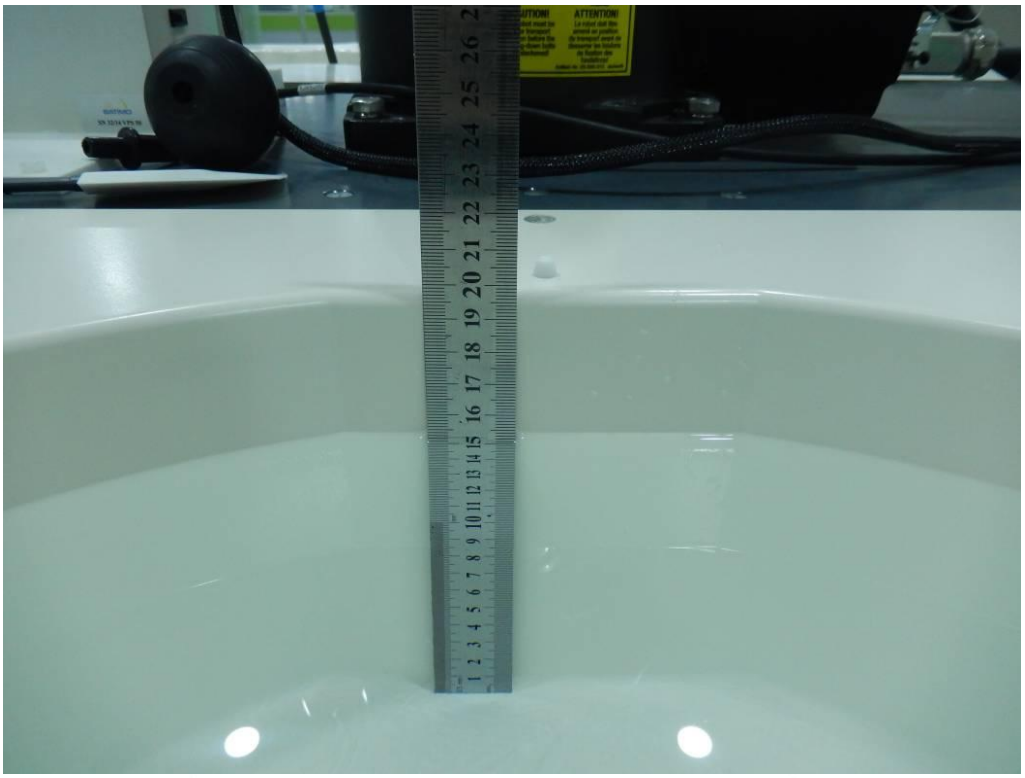
Right Edge-2
(separation distance is 0mm)



Top Edge(separation distance is 0mm)



Liquid depth (15 cm)



12. SAR Result Summary

12.1 Body SAR

Band	Mode	Antenna	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Duty cycle(%)	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN	802.11b	A	Back side	1	1.201	-2.55	17.1	16.59	100	1.351	/
			Back side	6	1.453	-2.16	17.1	17.02	100	**1.480**	1
			Back side	11	1.096	1.39	17.1	16.42	100	1.282	/
			Right side	6	1.012	1.76	17.1	17.02	100	1.031	/
			Top side	6	0.715	2.22	17.1	17.02	100	0.728	/
		B	Back side	6	0.653	3.00	17.1	17.07	100	**0.658**	2
			Top side	6	0.492	-1.73	17.1	17.07	100	0.495	/
	802.11n	A	Back side	6	0.709	-2.95	12	11.79	100	**0.744**	3
			Right side	6	0.612	-2.48	12	11.79	100	0.642	//
			Top side	6	0.549	1.91	12	11.79	100	0.576	/
		B	Back side	6	0.718	3.67	12	11.83	100	**0.747**	4
			Top side	6	0.637	-1.46	12	11.83	100	0.662	/

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
Bluetooth	GFSK	Back side	39	0.263	-0.47	11	10.17	**0.318**	21

		Top side	39	0.211	-1.73	11	10.17	0.255	/

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.906** W/Kg for Body)
4. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

Band	Mode	Antenna	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
5.2G WLAN	802.11 a	A	Back side	36	0.917	1.36	15	14.39	1.055	/
			Back side	40	0.934	1.22	15	14.35	1.085	/
			Back side	48	1.071	-0.21	15	14.49	**1.204**	5
			Right side	36	0.784	2.01	15	14.39	0.902	/
			Right side	40	0.747	-0.88	15	14.35	0.868	/
			Right side	48	0.845	2.16	15	14.49	0.950	/
			Top side	36	0.701	1.26	15	14.39	0.807	/
			Top side	40	0.654	2.12	15	14.35	0.760	/
			Top side	48	0.778	-3.02	15	14.49	0.875	/
		B	Back side	48	0.166	0.14	15	14.57	**0.183**	6
			Top side	48	0.121	2.25	15	14.57	0.134	/
	802.11 ac	A	Back side	36	0.876	1.32	10	9.66	0.947	/
			Back side	40	0.884	-2.01	10	9.69	0.949	/
			Back side	48	0.933	-2.30	10	9.76	**0.986**	7
			Right side	36	0.803	1.49	10	9.66	0.868	/
			Right side	40	0.812	1.43	10	9.69	0.872	/
			Right side	48	0.887	-2.40	10	9.76	0.937	/
			Top side	36	0.760	2.12	10	9.66	0.822	/
			Top side	40	0.774	1.21	10	9.69	0.831	/
			Top side	48	0.810	-0.76	10	9.76	0.856	/
		B	Back side	48	0.100	2.93	10	9.31	**0.117**	8
			Top side	48	0.079	-0.09	10	9.31	0.093	/

Band	Mode	Antenna	Test Position	Ch.	Result 1g (W/Kg)	Power Drift (%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
5.4G WLAN	802.11 a	A	Back side	52	1.036	1.33	15	14.45	1.176	/
			Back side	60	1.102	-2.04	15	14.52	1.231	/
			Back side	64	1.167	0.99	15	14.54	**1.297**	9
			Right side	52	0.912	2.11	15	14.45	1.035	/
			Right side	60	0.961	-1.03	15	14.52	1.073	/
			Right side	64	1.018	2.02	15	14.54	1.132	/
			Top side	52	0.801	1.26	15	14.45	0.909	/
			Top side	60	0.828	1.33	15	14.52	0.925	/
			Top side	64	0.993	-3.29	15	14.54	1.104	/
		B	Back side	64	0.079	2.31	15	14.69	**0.085**	10
			Top side	64	0.060	2.48	15	14.69	0.064	/
	802.11 ac	A	Back side	58	0.945	3.96	10	9.58	**1.041**	11
			Right side	58	0.901	-2.58	10	9.58	0.992	/
			Top side	58	0.822	-2.01	10	9.58	0.905	/
		B	Back side	58	0.091	-1.86	10	9.75	**0.096**	12
			Top side	58	0.083	3.58	10	9.75	0.088	/

Band	Mode	Antenna	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
5.6G WLAN	802.11 a	A	Back side	100	0.989	2.34	15	14.28	**1.167**	13
			Back side	116	0.802	1.25	15	13.87	1.040	/
			Back side	140	0.816	-0.84	15	13.92	1.046	/
			Right side	100	0.926	3.89	15	14.28	1.093	/
			Right side	116	0.793	2.66	15	13.87	1.029	/
			Right side	140	0.818	-0.08	15	13.92	1.049	/
			Top side	100	0.811	-0.63	15	14.28	0.957	/
			Top side	116	0.667	-1.03	15	13.87	0.865	/
			Top side	140	0.725	2.51	15	13.92	0.930	/
		B	Back side	100	0.465	-0.77	14	13.85	**0.481**	14
			Top side	100	0.421	-0.20	14	13.85	0.436	/
	802.11 ac	A	Back side	106	0.769	1.28	10	9.51	**0.861**	15
			Back side	122	0.684	1.23	10	9.03	**0.855**	/
			Right side	106	0.715	-0.51	10	9.51	0.800	/
			Right side	122	0.631	2.50	10	9.03	0.789	/
			Top side	106	0.634	2.80	10	9.51	0.710	/
		B	Back side	106	0.163	-0.48	10	9.13	**0.199**	16
			Top side	106	0.137	3.49	10	9.13	0.167	/

Band	Mode	Antenna	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
5.8G WLAN	802.11 a	A	Back side	149	0.784	2.11	10	8.87	1.017	/
			Back side	157	0.825	1.78	10	9.00	1.039	/
			Back side	165	0.978	2.98	10	9.30	**1.149**	17
			Right side	149	0.766	0.64	10	8.87	0.994	/
			Right side	157	0.801	-2.55	10	9.00	1.008	/
			Right side	165	0.921	3.74	10	9.30	1.082	/
			Top side	149	0.698	-1.32	10	8.87	0.905	/
			Top side	157	0.712	-0.86	10	9.00	0.896	/
			Top side	165	0.830	-0.63	10	9.30	0.975	/
		B	Back side	165	0.475	-1.44	9	8.06	**0.590**	18
			Top side	165	0.411	-3.88	9	8.06	0.510	/
	802.11 n	A	Back side	155	0.470	3.31	6	5.23	**0.561**	19
			Right side	155	0.351	2.58	6	5.23	0.419	/
			Top side	155	0.370	-0.82	6	5.23	0.442	/
		B	Back side	155	0.211	2.59	6	5.54	**0.235**	20
			Top side	155	0.144	1.21	6	5.54	0.160	/

Band	Mode	Scaled SAR (W/Kg)		A+B
WLAN 2.4G	802.11n	Antenna A	0.744	**1.491**
	802.11n	Antenna B	0.747	
WLAN 5.2G	802.11ac	Antenna A	0.986	**1.103**
	802.11ac	Antenna B	0.117	
WLAN 5.3G	802.11ac	Antenna A	1.041	**1.137**
	802.11ac	Antenna B	0.096	
WLAN 5.6G	802.11ac	Antenna A	0.861	**1.060**
	802.11ac	Antenna B	0.199	
WLAN 5.8G	802.11ac	Antenna A	0.561	**0.796**
	802.11ac	Antenna B	0.235	

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D01v05r01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For WWAN: Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

Repeated SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN	802.11b	Back side	6	1.410	-1.53	17.1	17.02	1.436	/
5.2G WLAN	802.11a	Back side	48	1.003	-1.89	15	14.49	1.128	/
		Right side	48	0.812	1.25	15	14.49	0.913	/
		Top side	48	07.64	0.89	15	14.49	8.592	/
	802.11ac	Back side	48	0.894	1.22	10	9.76	0.945	/
		Right side	48	0.823	0.82	10	9.76	0.870	/
		Top side	48	0.787	-1.43	10	9.76	0.832	/
5.4 G WLAN	802.11a	Back side	64	1.005	1.36	15	14.54	1.117	/
		Right side	64	0.976	-2.05	15	14.54	1.085	/
		Top side	64	0.928	-2.14	15	14.54	1.032	/
	802.11ac	Back side	58	0.902	1.11	10	9.58	0.994	/
		Right side	58	0.876	2.04	10	9.58	0.965	/
		Top side	58	0.793	2.13	10	9.58	0.874	/
5.6 G WLAN	802.11a	Back side	100	0.852	2.54	15	14.28	1.006	/
		Right side	100	0.893	1.38	15	14.28	1.054	/
		Top side	100	0.789	2.4	15	14.28	0.931	/
	802.11ac	Back side	106	0.741	-1.25	10	9.03	0.926	/
		Right side	106	0.798	-.096	10	9.03	0.998	/
5.8 G WLAN	802.11a	Back side	165	0.924	-1.34	10	9.30	1.086	/
		Right side	165	0.899	-2.56	10	9.30	1.056	/
		Top side	165	0.808	-1.22	10	9.30	0.949	/

12.2 repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g(mW/g)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(mW/g)	2nd Repeated SAR 1g	Ratio
2.4G WLAN	802.11b	Back side	6	1.453	1.410	1.03	-	-	-
5.2G WLAN	802.11a	Back side	48	1.071	1.003	1.07	-	-	-
		Right side	48	0.845	0.812	1.04	-	-	-
		Top side	48	0.778	0.764	1.02	-	-	-
	802.11ac	Back side	48	0.933	0.894	1.04	-	-	-
		Right side	48	0.887	0.823	1.08	-	-	-
		Top side	48	0.810	0.787	1.03	-	-	-
5.4 G WLAN	802.11a	Back side	64	1.167	1.005	1.16	-	-	-
		Right side	64	1.018	0.976	1.04	-	-	-
		Top side	64	0.993	0.928	1.07	-	-	-
	802.11ac	Back side	58	0.945	0.902	1.05	-	-	-
		Right side	58	0.901	0.876	1.03	-	-	-
		Top side	58	0.822	0.793	1.04	-	-	-
5.6 G WLAN	802.11a	Back side	100	0.989	0.852	1.16	-	-	-
		Right side	100	0.926	0.893	1.04	-	-	-
		Top side	100	0.811	0.789	1.03	-	-	-
	802.11ac	Back side	106	0.769	0.741	1.04	-	-	-
		Right side	106	0.715	0.798	0.90	-	-	-
5.8 G WLAN	802.11a	Back side	165	0.978	0.924	1.06	-	-	-
		Right side	165	0.921	0.899	1.02	-	-	-
		Top side	165	0.830	0.808	1.03	-	-	-

Note:

1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is≥0.8W/Kg.
2. Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is≤1.2and the measured SAR＜1.45W/Kg, only one repeated measurement is required.
3. 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 ≥ 1.45W/Kg
4. The ratio is the difference in percentage between original and repeated measured SAR.

13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2017.08.15	2020.08.14
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2017.08.15	2020.08.14
E-Field Probe	MVG	SSE2	SN 41/18 EPGO334	2019.06.04	2020.06.03
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2019.11.25	2020.11.24
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom2	MVG	SAM	SN 32/14 SAM116	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	99899	DC-18GHz	N/A	N/A
Directional coupler	Narda	4226-20	3305	N/A	N/A
Network Analyzer	Agilent	8753ES	US38432810	2019.10.11	2020.10.10
Multi Meter	Keithley	Multi Meter 2000	4050073	2019.10.11	2020.10.10
Signal Generator	Agilent	N5182A	MY50140530	2019.10.09	2020.10.08
Power Amplifier	DESAY	ZHL-42W	9638	2019.10.09	2020.10.08
Power Meter	R&S	NRP	100510	2019.10.16	2020.10.15
Power Meter	Agilent	E4418B	GB43312526	2019.10.16	2020.10.15
Power Sensor	R&S	NRP-Z11	101919	2019.10.09	2020.10.08
Power Sensor	Agilent	E9301A	MY41497725	2019.10.09	2020.10.08
Temperature hygrometer	SuWei	SW-108	N/A	2019.10.13	2020.10.12
Thermograph	Elitech	RC-4	S/N EF7176501537	2019.10.11	2020.10.10

Note:
Per KDB 865664 D01, Dipole SAR Validation Verification, STS LAB has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:
1. There is no physical damage on the dipole
2. System validation with specific dipole is within 10% of calibrated value
Return-loss in within 20% of calibrated measurement

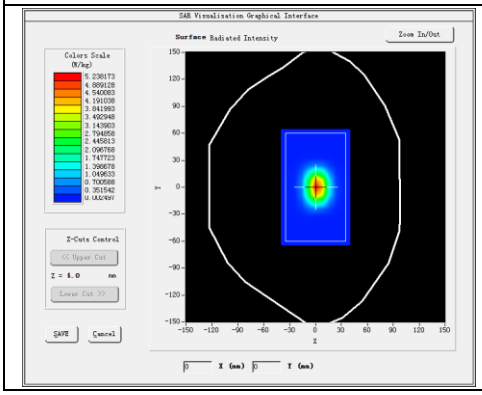
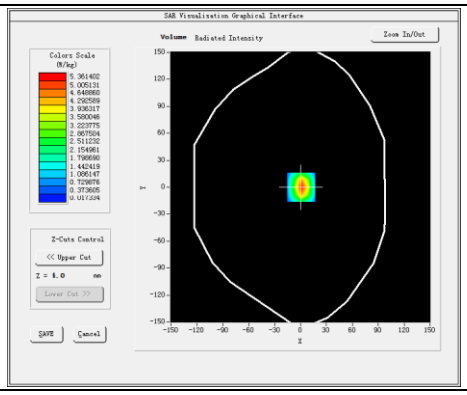
Appendix A. System Validation Plots

System Performance Check Data (2450MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2020-04-01
Measurement duration: 14 minutes 23 seconds

Experimental conditions.

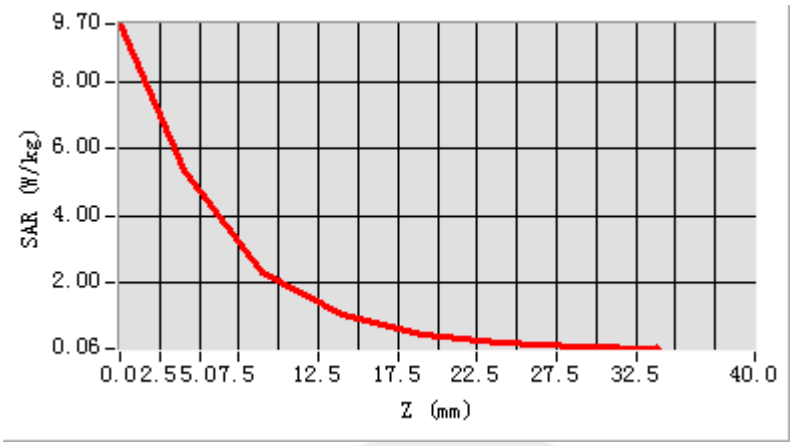
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	53.24
Conductivity (S/m)	1.97
Power drift (%)	-0.30
Probe	SN 41/18 EPGO334
ConvF	2.02
Crest factor:	1:1

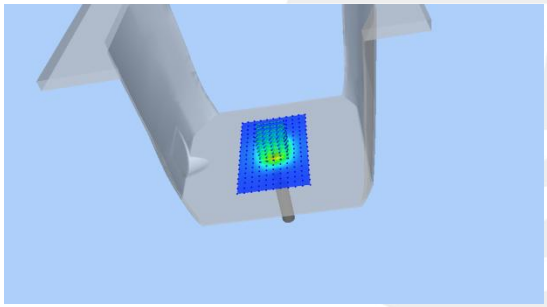
SURFACE SAR	VOLUME SAR
	

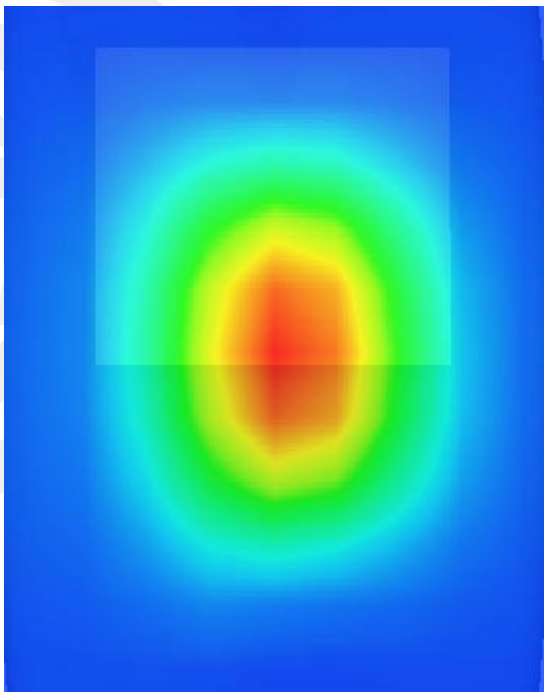
Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	2.410178
SAR 1g (W/Kg)	5.320687

Z Axis Scan


9.70
8.00
6.00
4.00
2.00
0.06
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



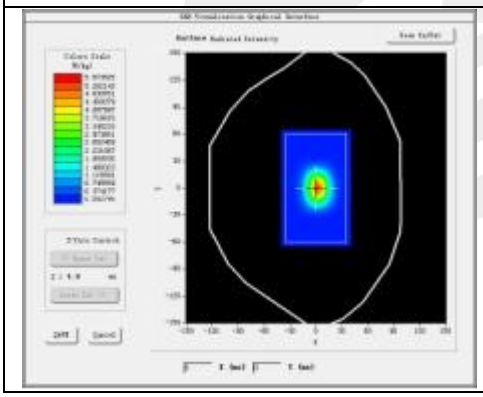
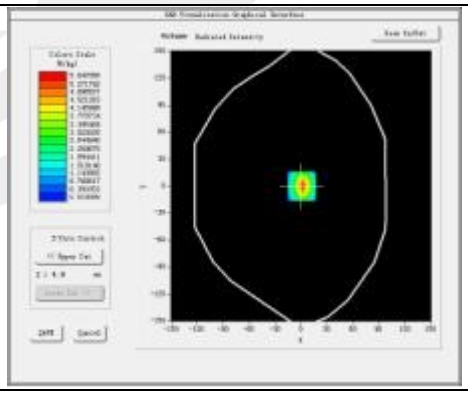


System Performance Check Data(5200MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2020-04-02

Experimental conditions.

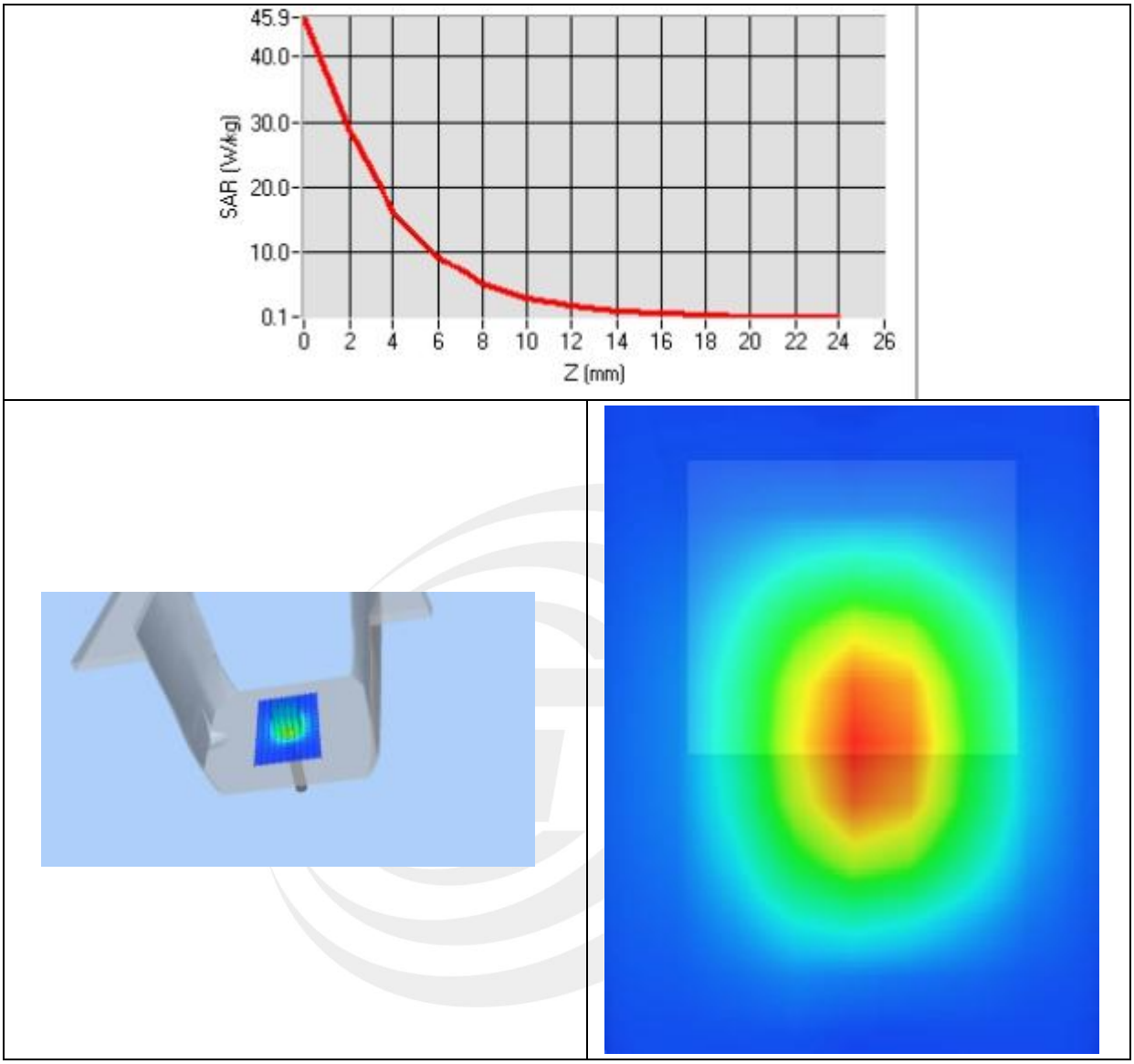
Device Position	Validation plane
Band	5200 MHz
Channels	-
Signal	CW
Frequency (MHz)	5200
Relative permittivity	48.29
Conductivity (S/m)	5.50
Power drift (%)	2.52
Probe	SN 41/18 EPGO334
ConvF	1.92
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	5.407891
SAR 1g (W/Kg)	15.619507

Z Axis Scan

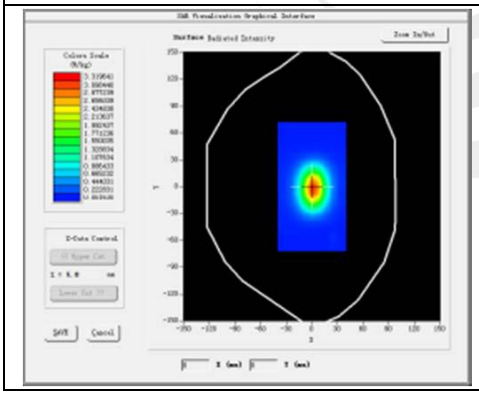
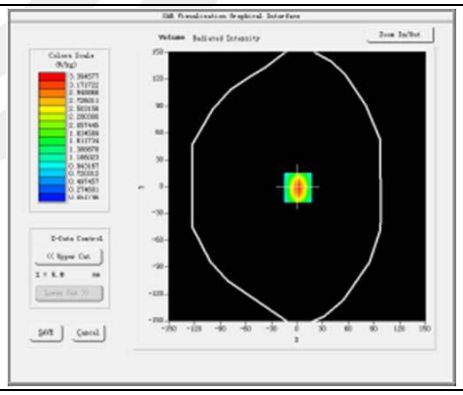


System Performance Check Data(5400MHz Body)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2020-04-03

Experimental conditions.

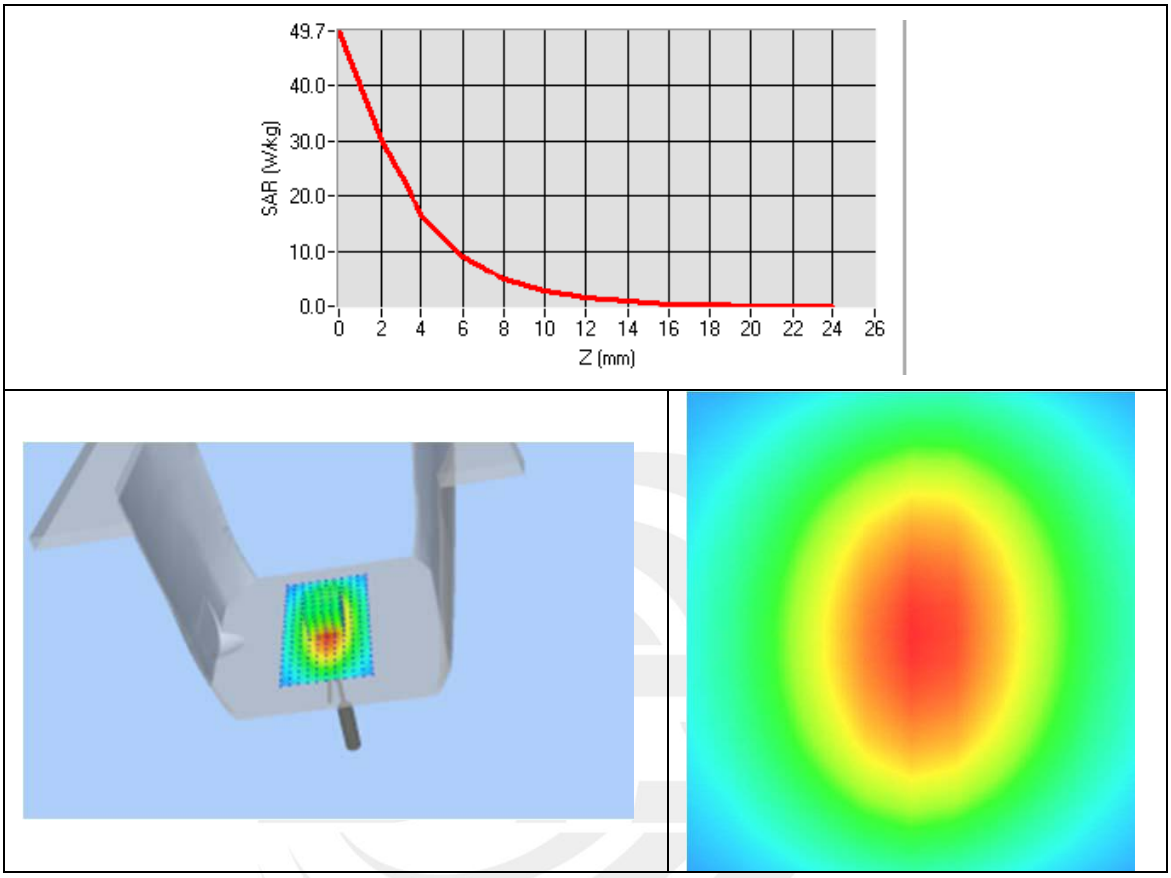
Device Position	Validation plane
Band	5300 MHz
Channels	-
Signal	CW
Frequency (MHz)	5400
Relative permittivity	49.15
Conductivity (S/m)	5.36
Power drift (%)	-1.77
Probe	SN 41/18 EPGO334
ConvF	2.12
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	5.970147
SAR 1g (W/Kg)	16.682047

Z Axis Scan

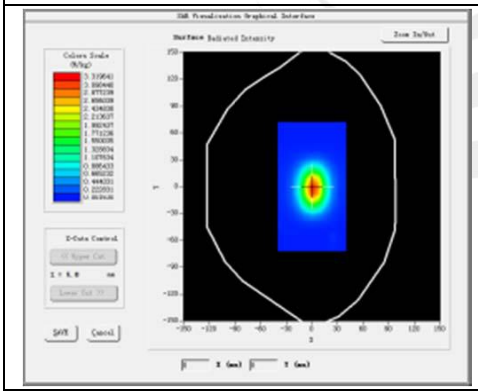
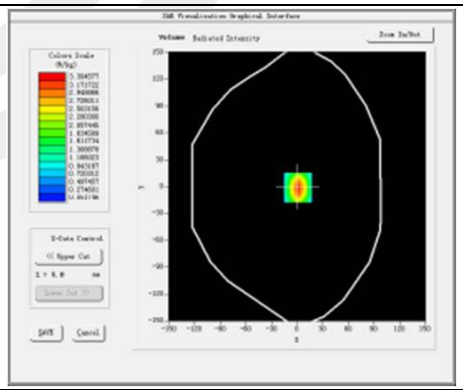


System Performance Check Data(5600MHz Body)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2020-04-07

Experimental conditions.

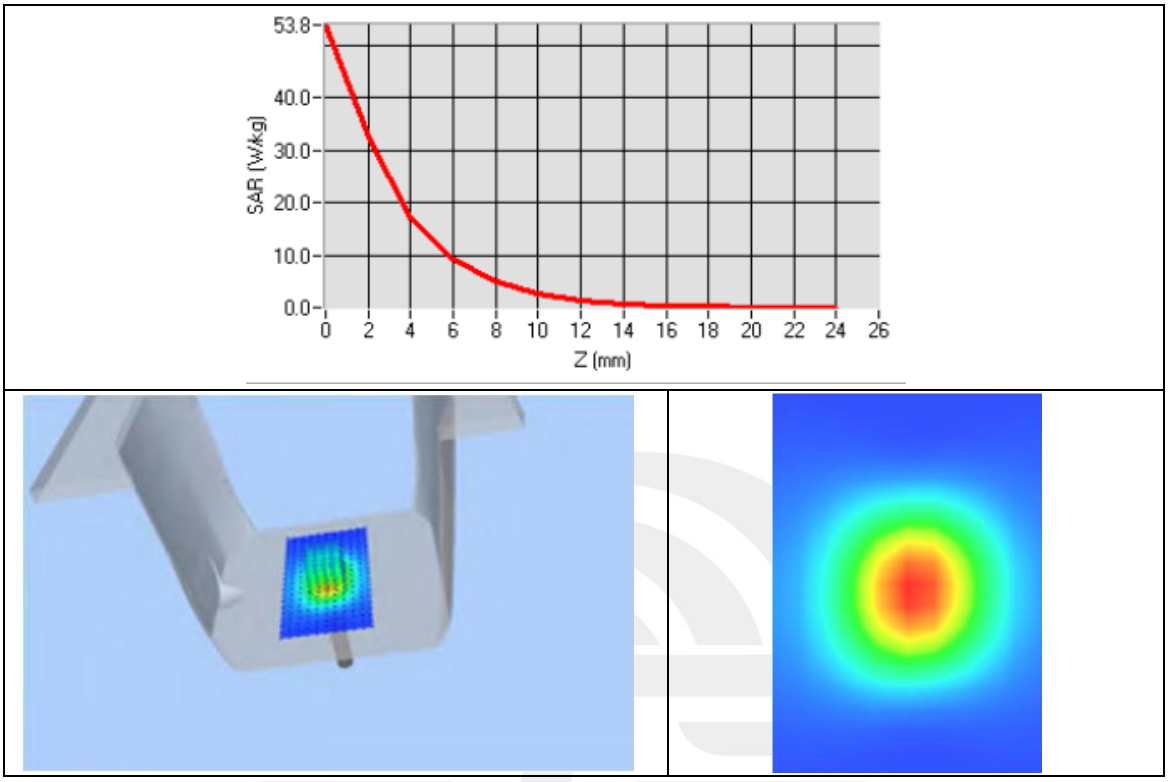
Device Position	Validation plane
Band	5600 MHz
Channels	-
Signal	CW
Frequency (MHz)	5600
Relative permittivity	48.93
Conductivity (S/m)	5.83
Power drift (%)	1.86
Probe	SN 41/18 EPGO334
ConvF	2.21
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	6.124701
SAR 1g (W/Kg)	17.408601

Z Axis Scan

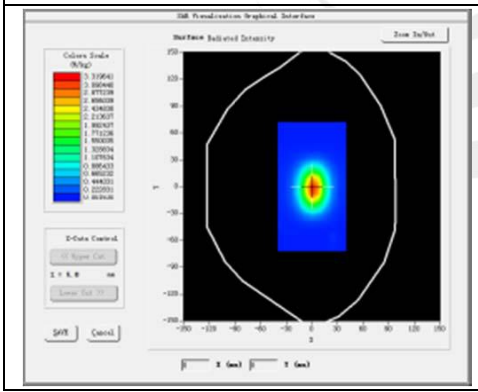
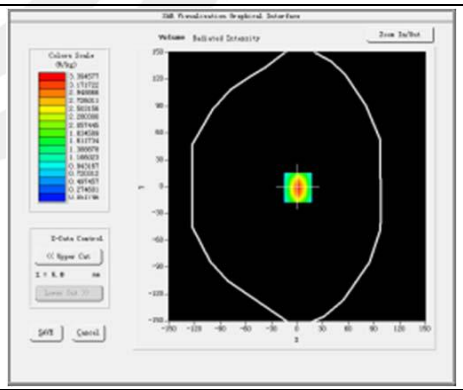


System Performance Check Data(5800MHz Body)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2020-04-08

Experimental conditions.

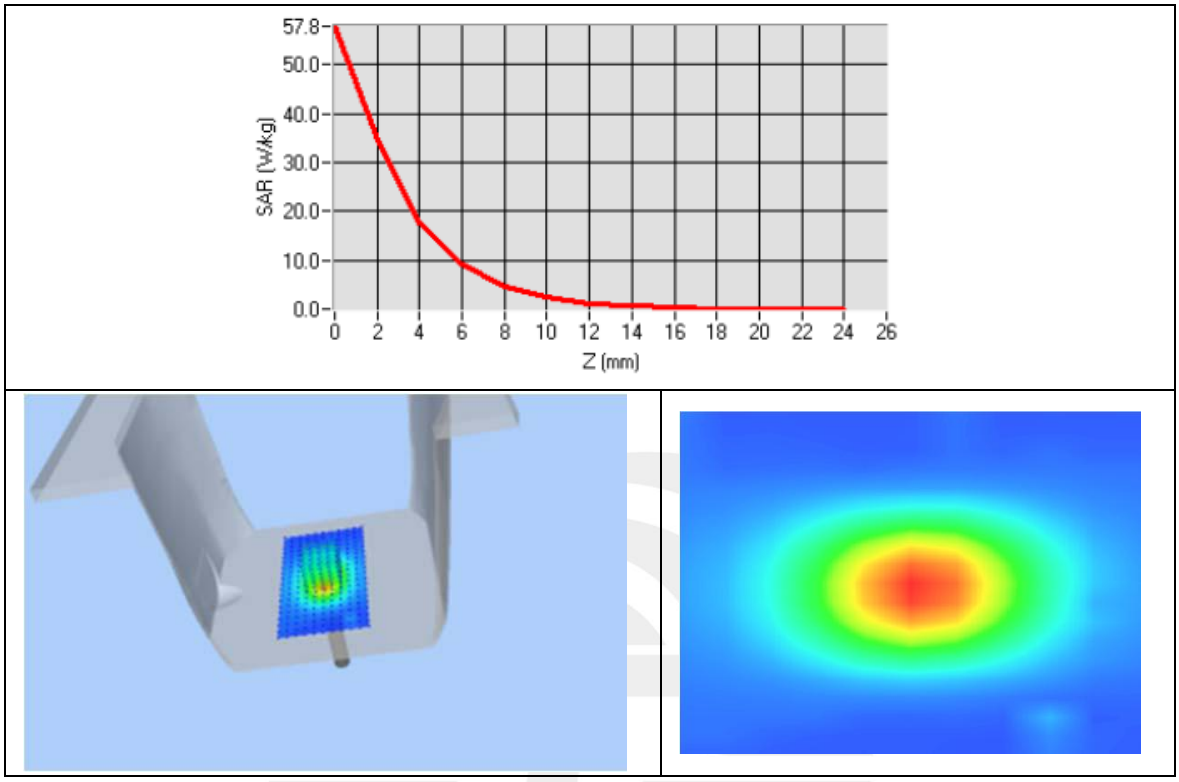
Device Position	Validation plane
Band	5800 MHz
Channels	-
Signal	CW
Frequency (MHz)	5800
Relative permittivity	47.59
Conductivity (S/m)	6.09
Power drift (%)	-1.00
Probe	SN 41/18 EPGO334
ConvF	2.16
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	6.292147
SAR 1g (W/Kg)	18.395147

Z Axis Scan


57.8
50.0
40.0
30.0
20.0
10.0
0.0
SAR (W/kg)
0 2 4 6 8 10 12 14 16 18 20 22 24 26
Z (mm)

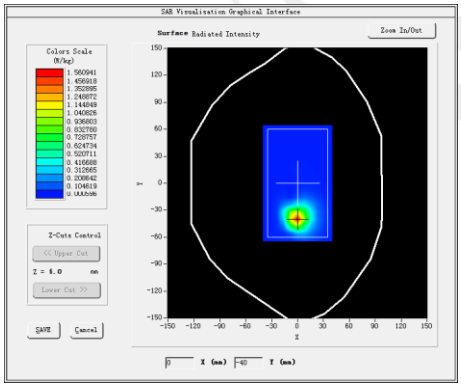
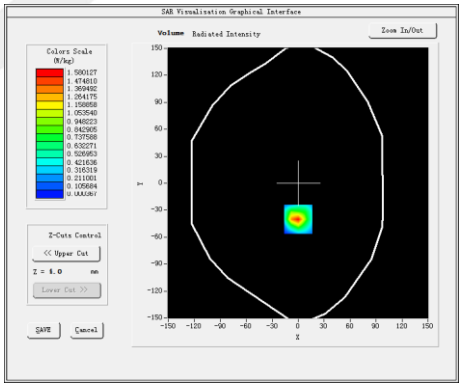
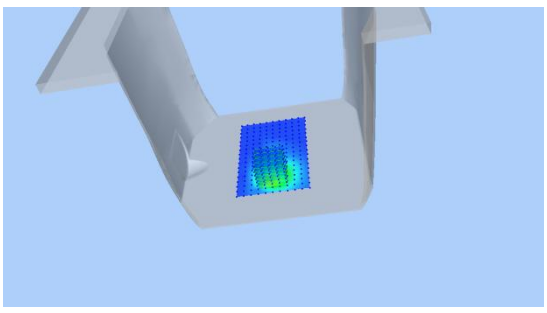
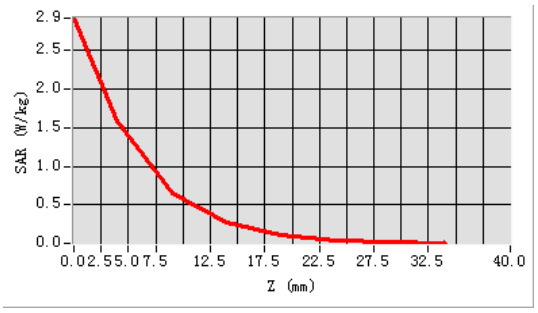
Appendix B. SAR Test Plots

Plot 1: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-01
Probe	SN 41/18 EPGO334
ConvF	2.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11b ISM
Channels	Middle
Antenna	A
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	-2.16

Maximum location: X=0.00, Y=-40.00
SAR Peak: 3.00 W/kg

SAR 10g (W/Kg)	0.549558
SAR 1g (W/Kg)	1.453451

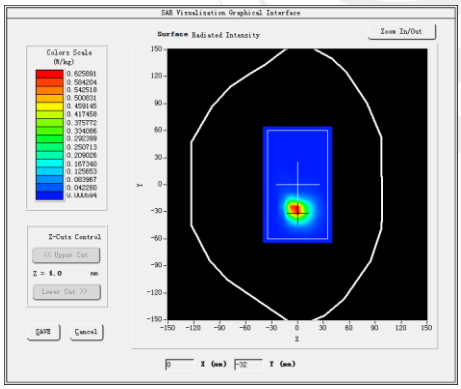
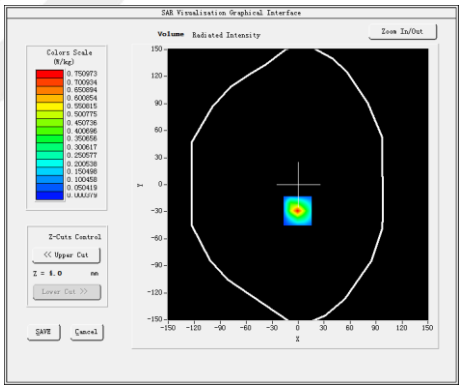
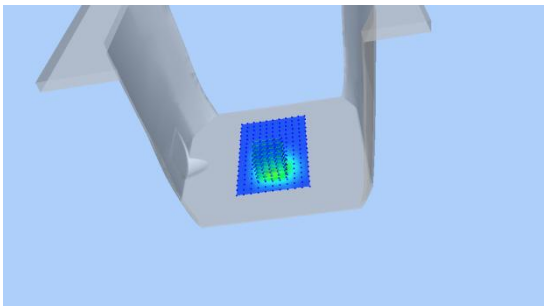
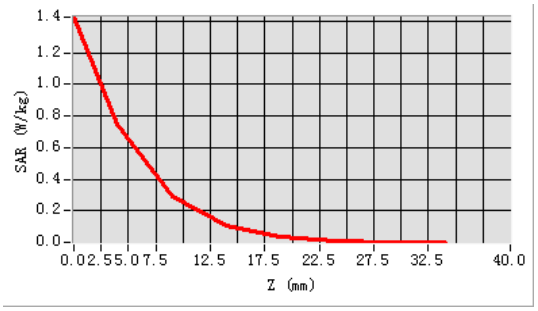
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 2: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-01
Probe	SN 41/18 EPGO334
ConvF	2.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11b ISM
Channels	Middle
Antenna	B
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	-3.00

Maximum location: X=-1.00, Y=-29.00
SAR Peak: 1.41 W/kg

SAR 10g (W/Kg)	0.224732
SAR 1g (W/Kg)	0.652938

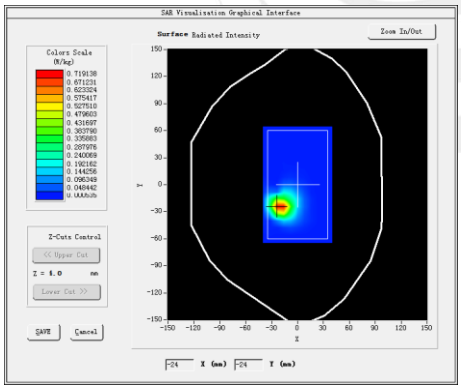
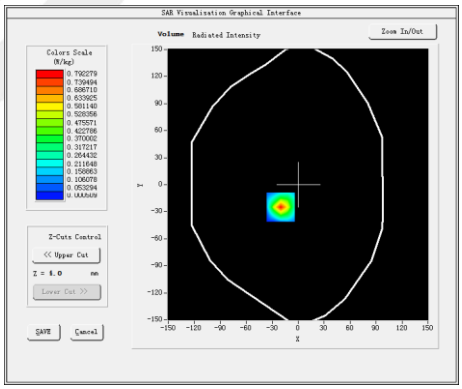
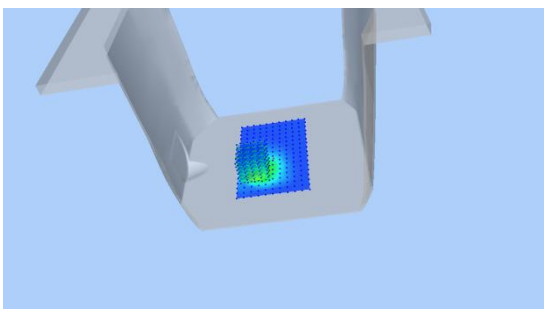
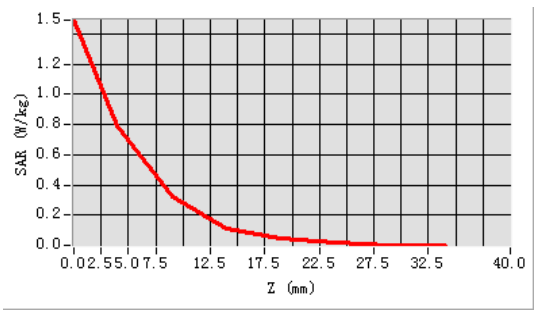
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 3: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-01
Probe	SN 41/18 EPGO334
ConvF	2.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11n ISM
Channels	Middle
Antenna	A
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	3.22

Maximum location: X=-20.00, Y=-25.00
SAR Peak: 1.47 W/kg

SAR 10g (W/Kg)	0.263552
SAR 1g (W/Kg)	0.709013

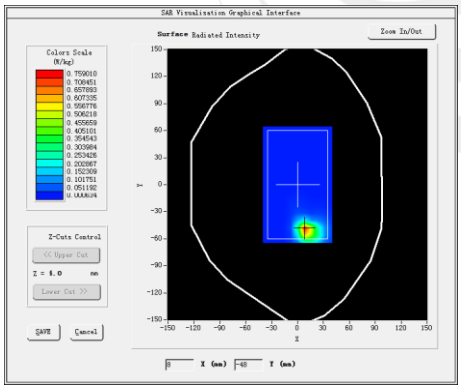
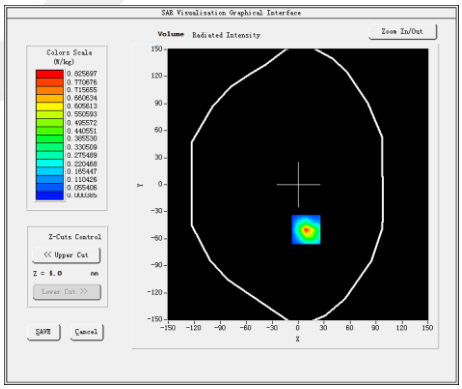
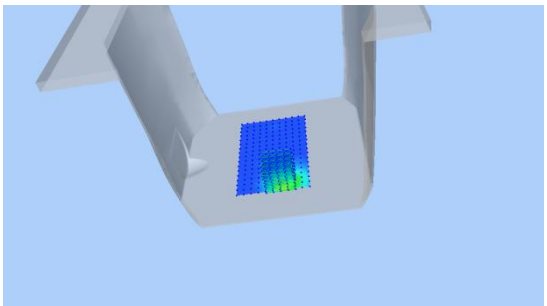
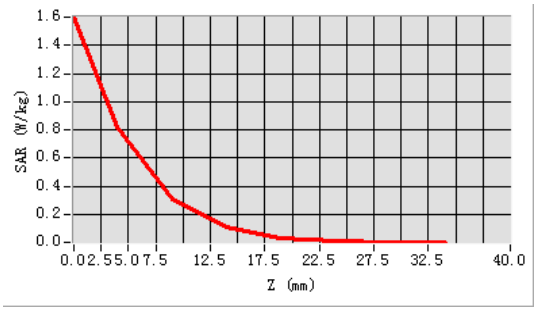
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 4: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-01
Probe	SN 41/18 EPGO334
ConvF	2.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11n ISM
Channels	Middle
Antenna	B
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	3.67

Maximum location: X=9.00, Y=-50.00
SAR Peak: 1.60 W/kg

SAR 10g (W/Kg)	0.237874
SAR 1g (W/Kg)	0.718439

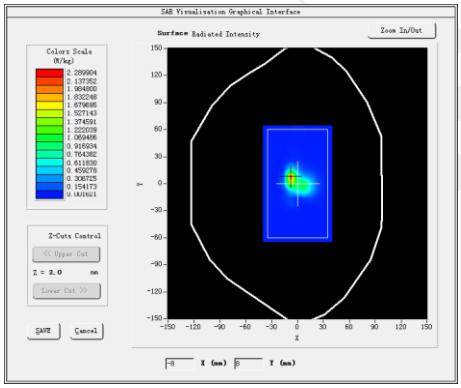
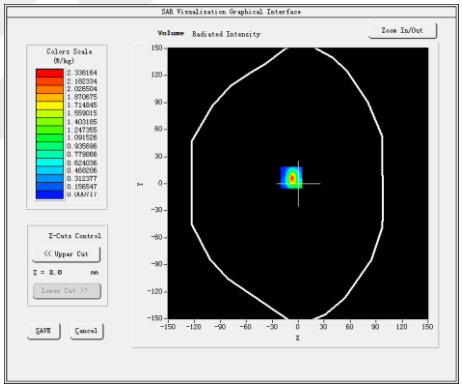
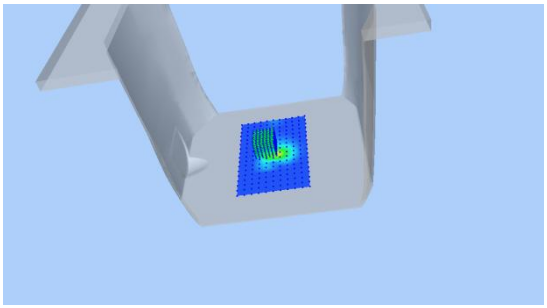
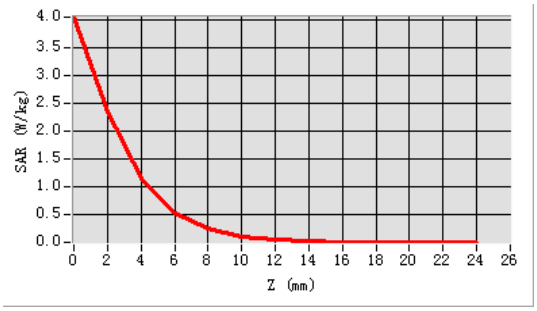
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 5: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-02
Probe	SN 41/18 EPGO334
ConvF	1.92
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	49.0
Conductivity (S/m)	5.30
Variation (%)	-0.21

Maximum location: X=-8.00, Y=7.00
SAR Peak: 4.39 W/kg

SAR 10g (W/Kg)	0.255172
SAR 1g (W/Kg)	1.071325

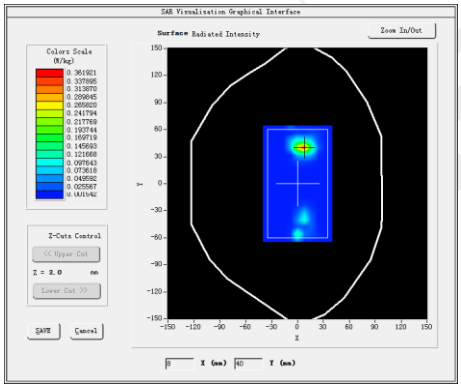
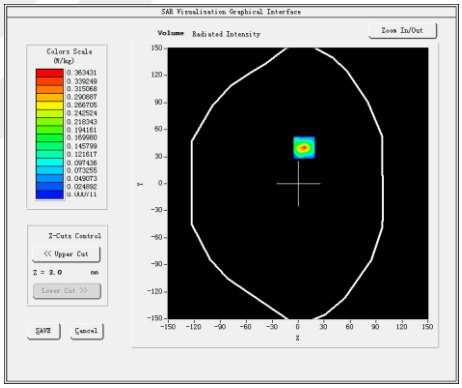
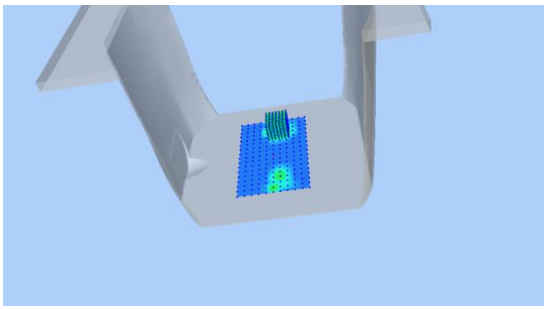
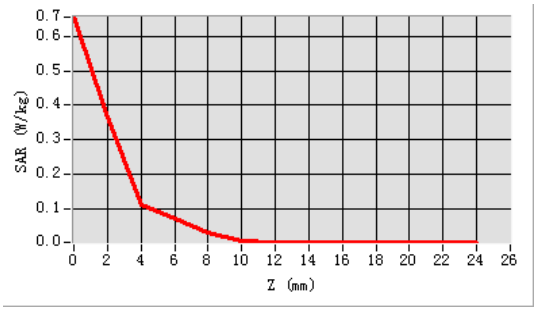
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 6: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-02
Probe	SN 41/18 EPGO334
ConvF	1.92
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	49.0
Conductivity (S/m)	5.30
Variation (%)	0.14

Maximum location: X=7.00, Y=40.00
SAR Peak: 0.70 W/kg

SAR 10g (W/Kg)	0.047194
SAR 1g (W/Kg)	0.166321

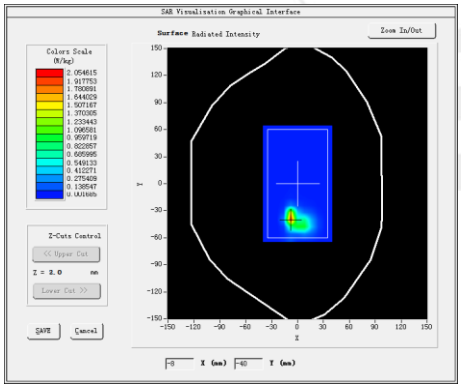
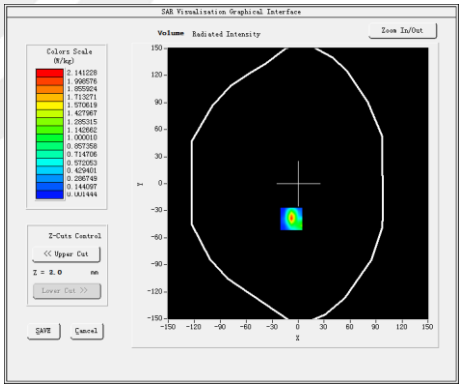
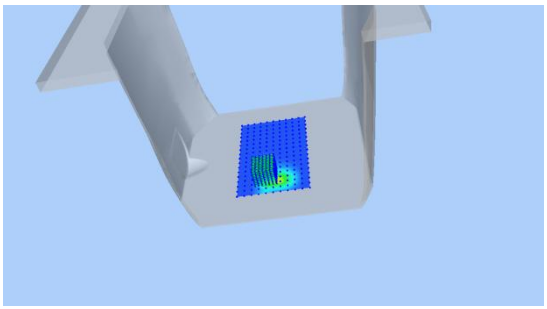
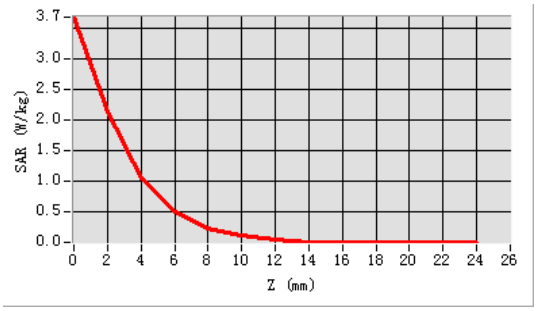
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 7: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-02
Probe	SN 41/18 EPGO334
ConvF	1.92
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11ac ISM
Antenna	A
Signal	IEEE802.ac (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	49.0
Conductivity (S/m)	5.30
Variation (%)	-2.30

Maximum location: X=-8.00, Y=-39.00
SAR Peak: 3.85 W/kg

SAR 10g (W/Kg)	0.227416
SAR 1g (W/Kg)	0.932783

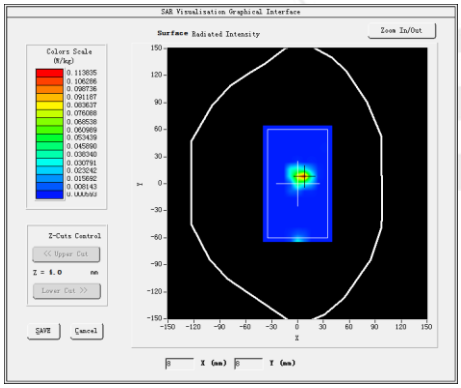
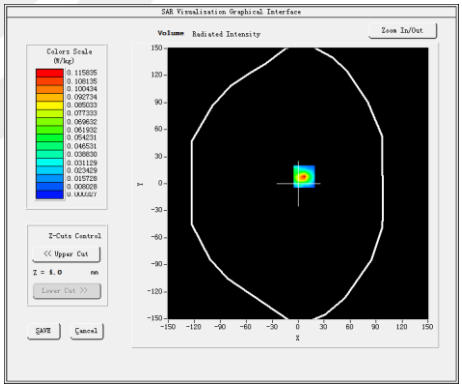
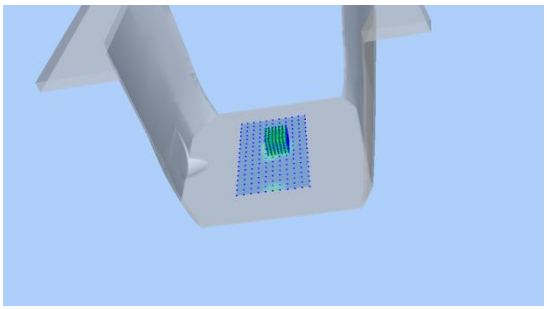
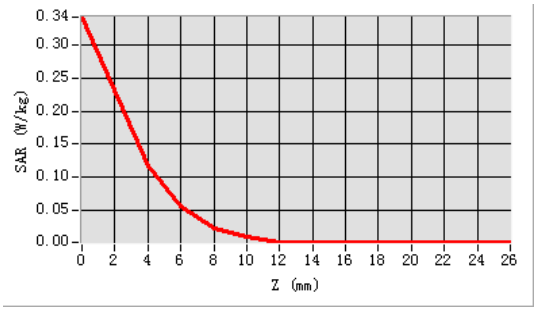
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 8: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-02
Probe	SN 41/18 EPGO334
ConvF	1.92
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11ac ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	49.0
Conductivity (S/m)	5.30
Variation (%)	2.93

Maximum location: X=7.00, Y=8.00
SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.027318
SAR 1g (W/Kg)	0.100230

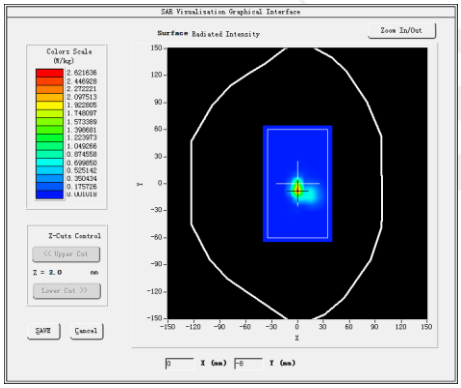
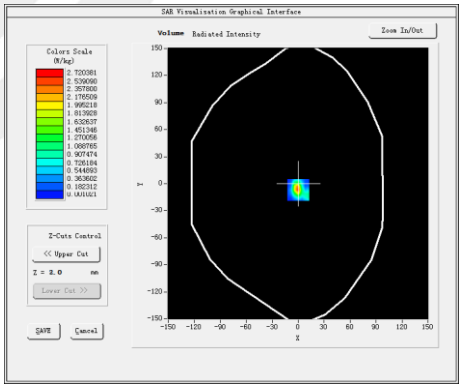
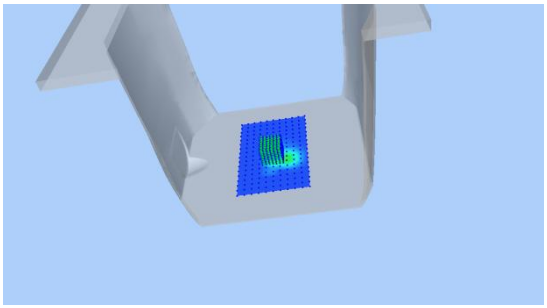
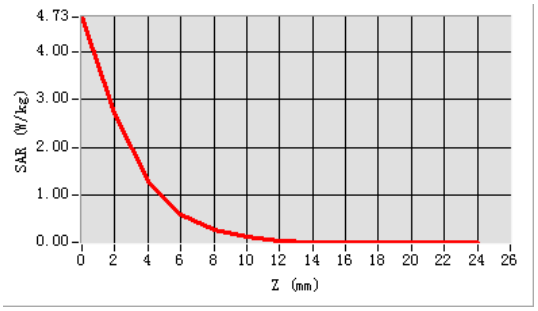
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 9: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-03
Probe	SN 41/18 EPGO334
ConvF	2.12
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5320
Relative permittivity (real part)	48.70
Conductivity (S/m)	5.53
Variation (%)	0.99

Maximum location: X=0.00, Y=-7.00
SAR Peak: 5.18 W/kg

SAR 10g (W/Kg)	0.252861
SAR 1g (W/Kg)	1.166729

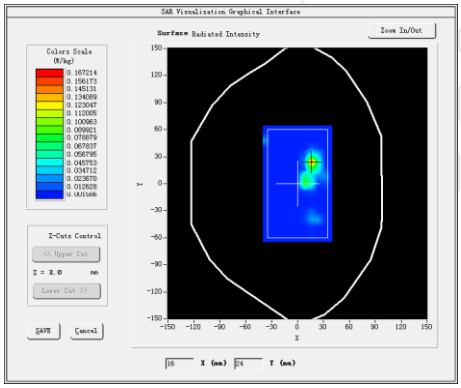
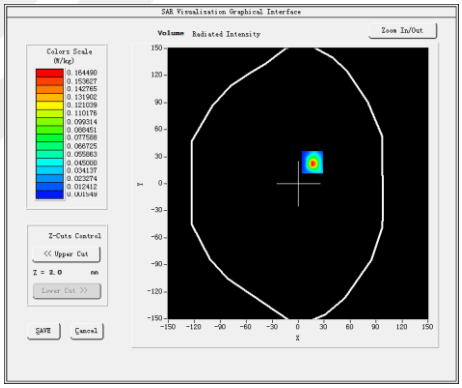
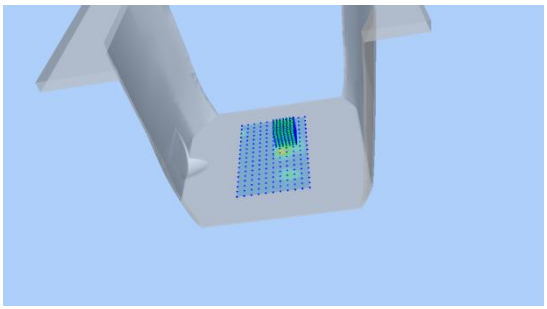
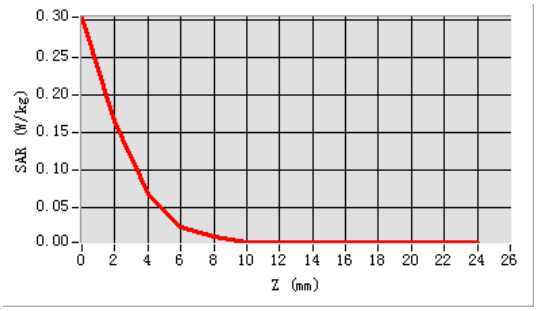
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 10: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-03
Probe	SN 41/18 EPGO334
ConvF	2.12
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5320
Relative permittivity (real part)	48.70
Conductivity (S/m)	5.53
Variation (%)	2.31

Maximum location: X=16.00, Y=24.00
SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.018575
SAR 1g (W/Kg)	0.079284

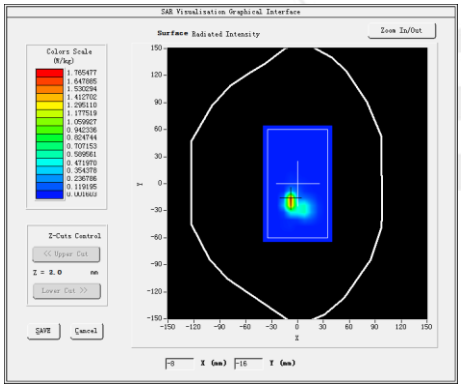
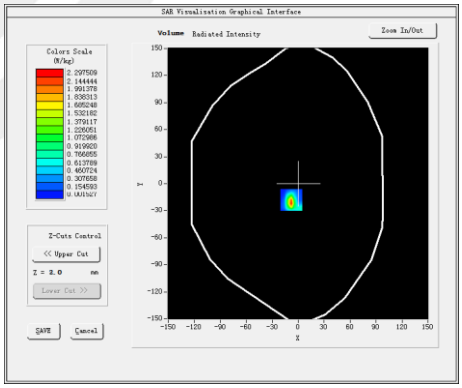
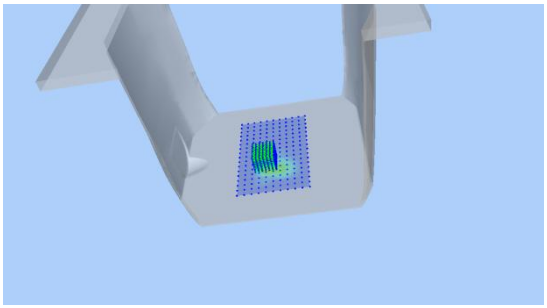
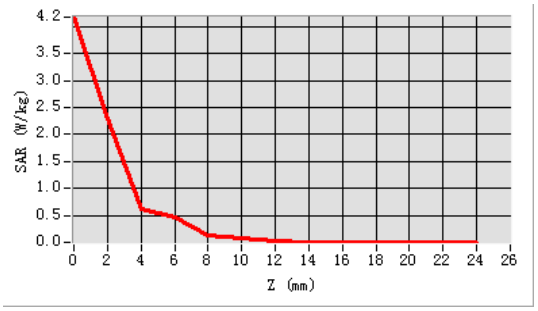
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 11: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-03
Probe	SN 41/18 EPGO334
ConvF	2.12
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11ac ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5290
Relative permittivity (real part)	48.70
Conductivity (S/m)	5.53
Variation (%)	3.96

Maximum location: X=-8.00, Y=-18.00
SAR Peak: 4.30 W/kg

SAR 10g (W/Kg)	0.203528
SAR 1g (W/Kg)	0.945474

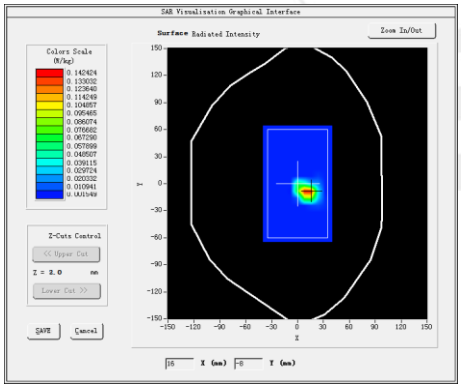
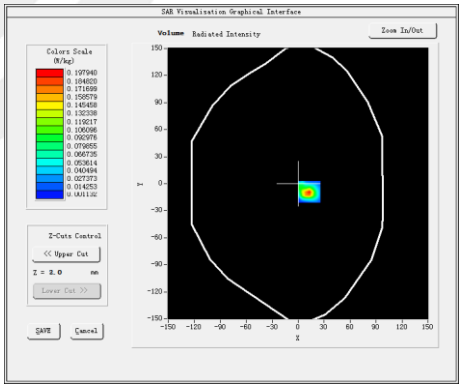
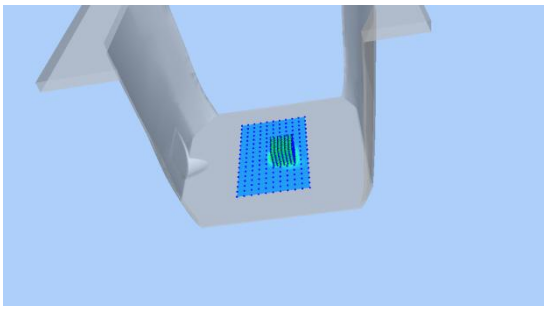
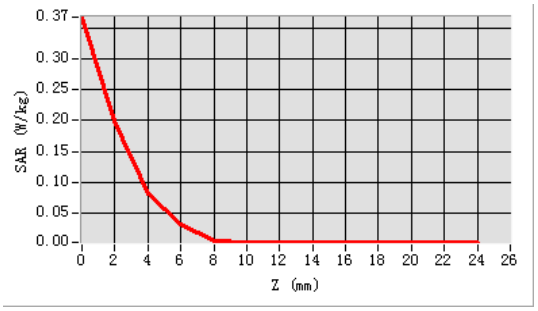
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 12: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-03
Probe	SN 41/18 EPGO334
ConvF	2.12
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11ac ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5290
Relative permittivity (real part)	48.70
Conductivity (S/m)	5.53
Variation (%)	-1.86

Maximum location: X=13.00, Y=-9.00
SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.024959
SAR 1g (W/Kg)	0.091238

SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

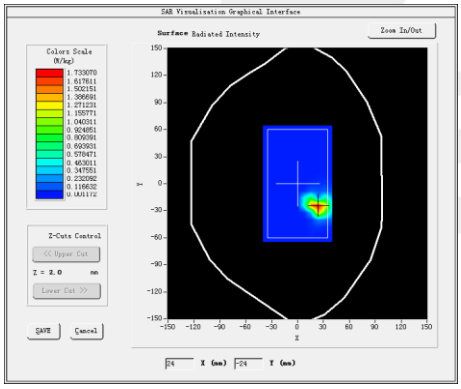
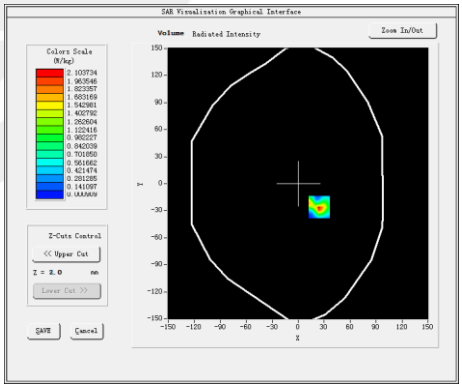
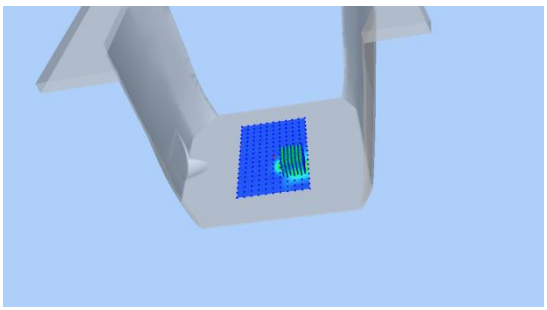
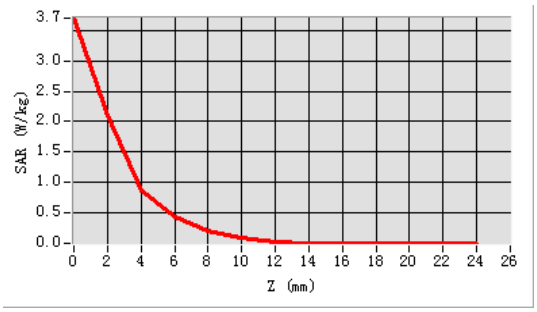
Plot 13: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-07
Probe	SN 41/18 EPGO334
ConvF	2.21
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5500
Relative permittivity (real part)	48.50
Conductivity (S/m)	5.77
Variation (%)	2.34

Maximum location: X=24.00, Y=-26.00

SAR Peak: 4.08 W/kg

SAR 10g (W/Kg)	0.289978
SAR 1g (W/Kg)	0.988542

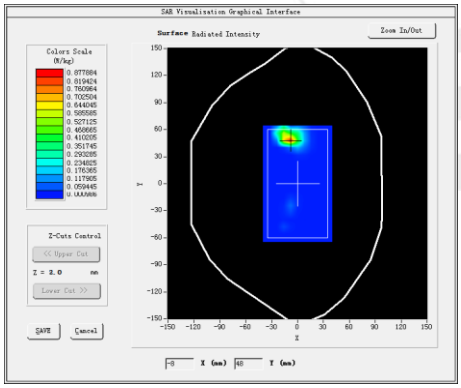
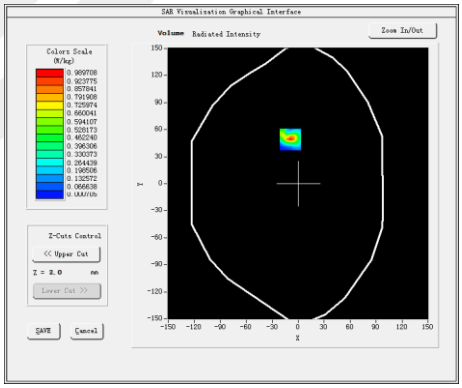
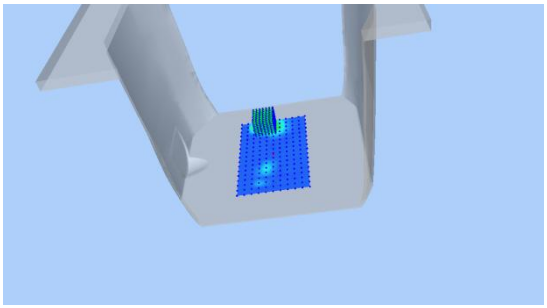
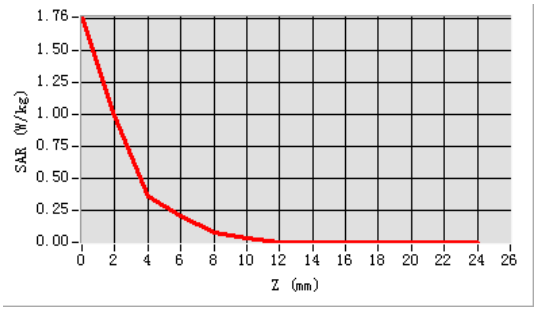
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 14: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-07
Probe	SN 41/18 EPGO334
ConvF	2.21
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5500
Relative permittivity (real part)	48.50
Conductivity (S/m)	5.77
Variation (%)	-0.77

Maximum location: X=-9.00, Y=49.00
SAR Peak: 1.90 W/kg

SAR 10g (W/Kg)	0.126130
SAR 1g (W/Kg)	0.465130

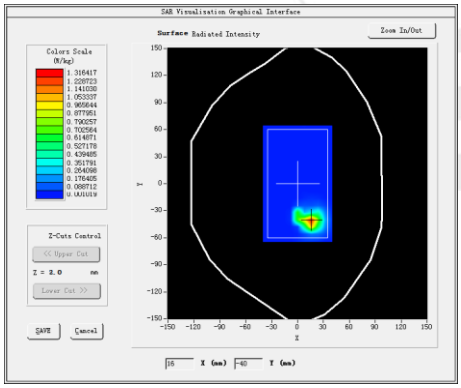
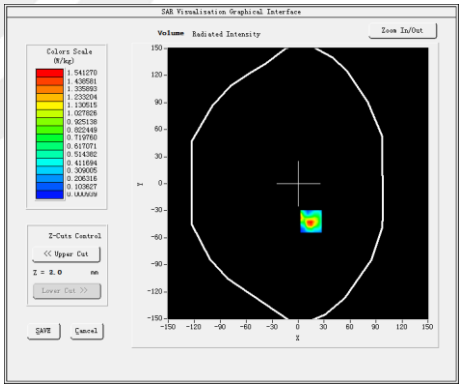
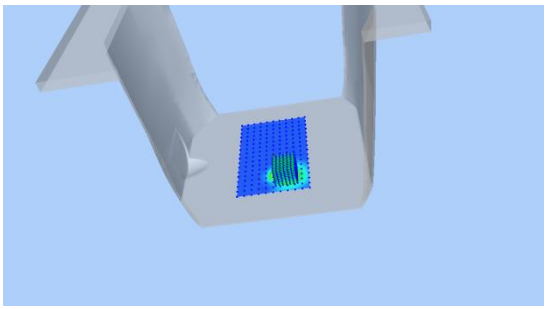
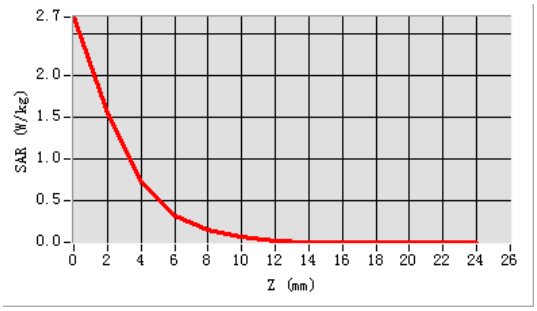
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 15: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-07
Probe	SN 41/18 EPGO334
ConvF	2.21
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11ac ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5530
Relative permittivity (real part)	48.50
Conductivity (S/m)	5.77
Variation (%)	1.28

Maximum location: X=-15.00, Y=-42.00
SAR Peak: 3.00 W/kg

SAR 10g (W/Kg)	0.220959
SAR 1g (W/Kg)	0.768516

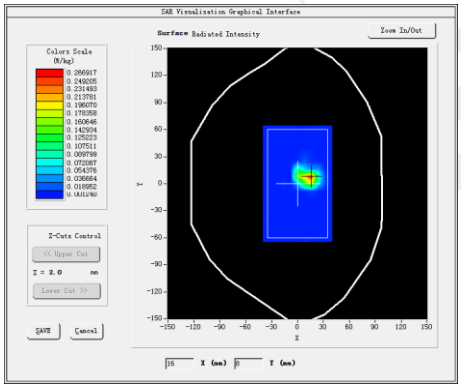
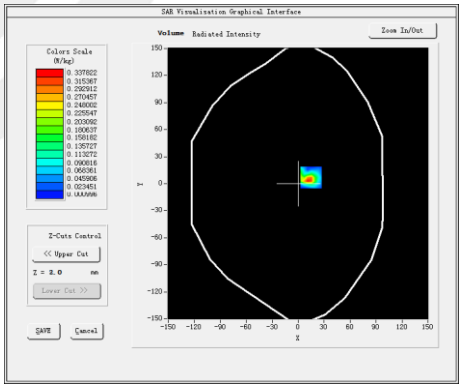
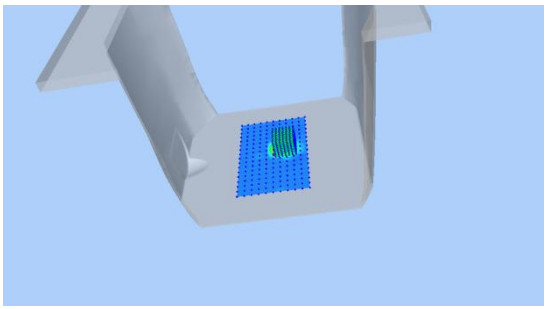
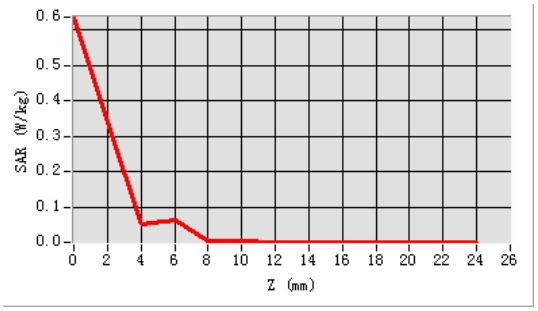
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 16: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-07
Probe	SN 41/18 EPGO334
ConvF	2.21
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11ac ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5530
Relative permittivity (real part)	48.50
Conductivity (S/m)	5.77
Variation (%)	-0.48

Maximum location: X=15.00, Y=7.00
SAR Peak: 0.68 W/kg

SAR 10g (W/Kg)	0.041521
SAR 1g (W/Kg)	0.163275

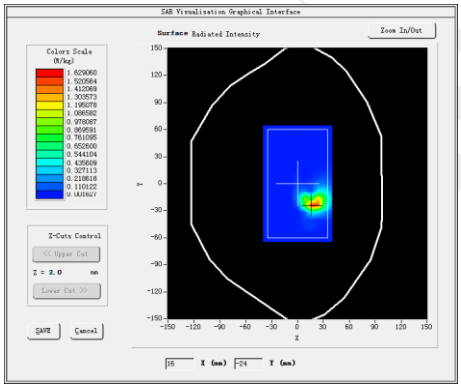
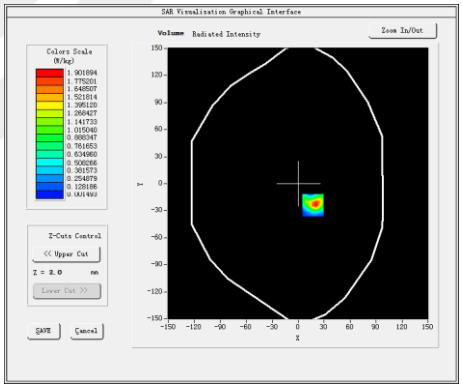
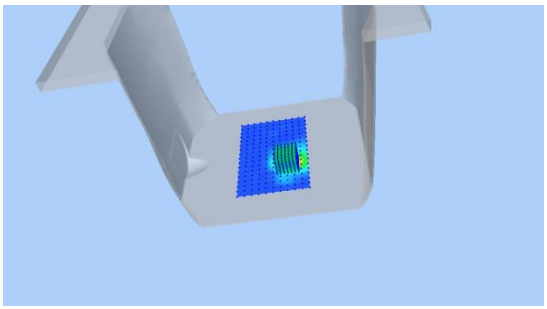
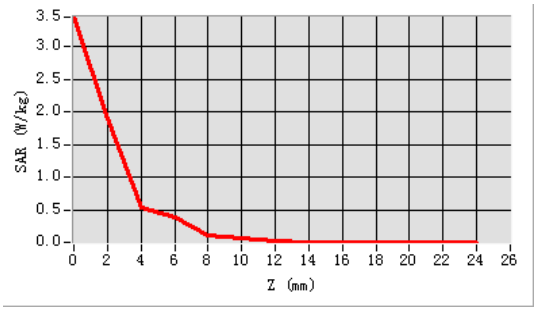
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 17: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-08
Probe	SN 41/18 EPGO334
ConvF	2.16
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5825
Relative permittivity (real part)	48.2
Conductivity (S/m)	6.00
Variation (%)	2.98

Maximum location: X=17.00, Y=-24.00
SAR Peak: 3.69 W/kg

SAR 10g (W/Kg)	0.277625
SAR 1g (W/Kg)	0.978200

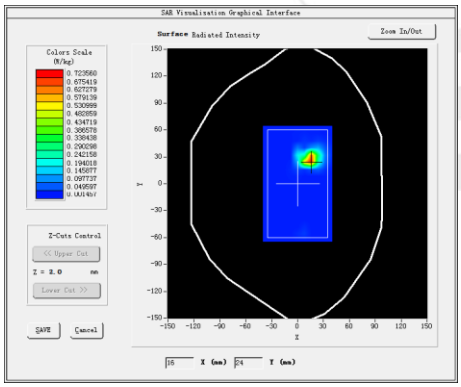
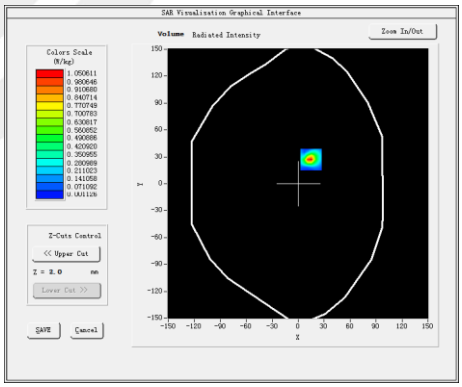
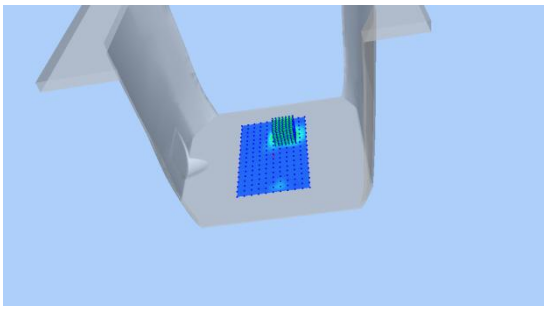
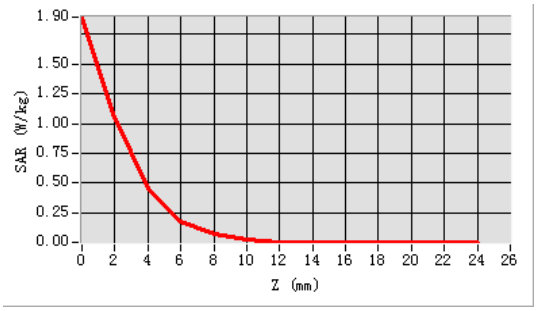
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 18: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-08
Probe	SN 41/18 EPGO334
ConvF	2.16
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11a ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5825
Relative permittivity (real part)	48.2
Conductivity (S/m)	6.00
Variation (%)	-1.44

Maximum location: X=15.00, Y=27.00
SAR Peak: 2.09 W/kg

SAR 10g (W/Kg)	0.107402
SAR 1g (W/Kg)	0.474551

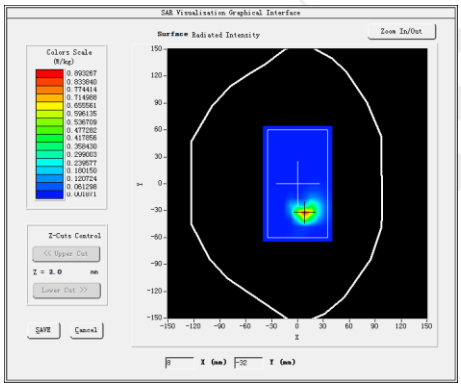
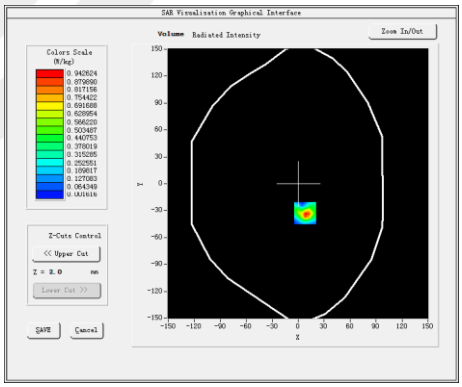
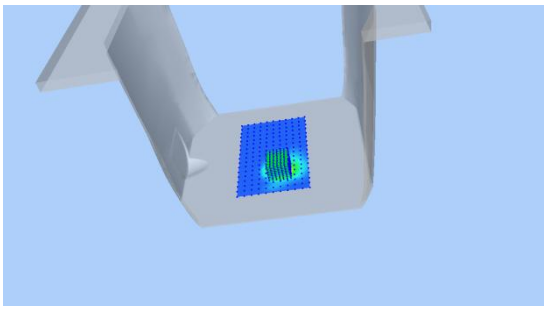
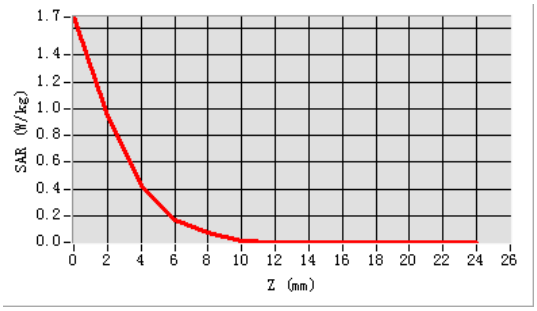
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 19: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-08
Probe	SN 41/18 EPGO334
ConvF	2.16
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11ac ISM
Antenna	A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5775
Relative permittivity (real part)	48.2
Conductivity (S/m)	6.00
Variation (%)	3.31

Maximum location: X=-8.00, Y=-33.00
SAR Peak: 1.84 W/kg

SAR 10g (W/Kg)	0.131159
SAR 1g (W/Kg)	0.470312

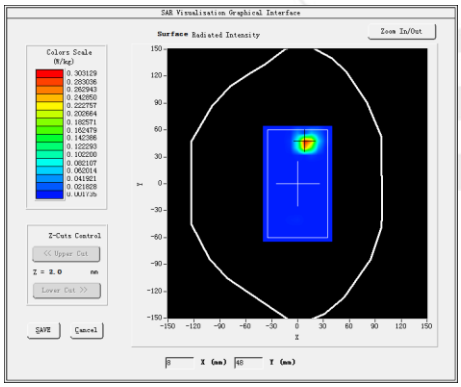
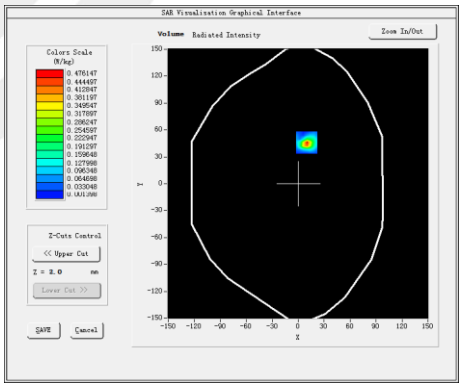
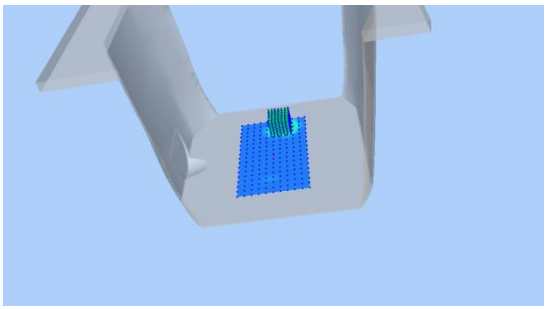
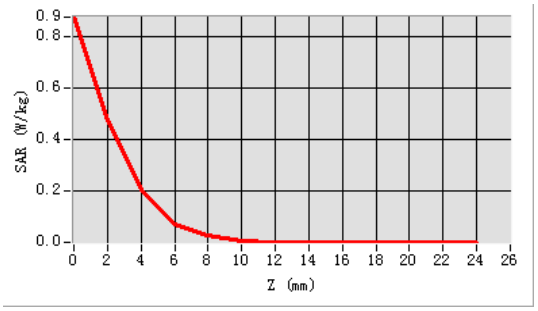
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 20: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-08
Probe	SN 41/18 EPGO334
ConvF	2.16
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	IEEE 802.11ac ISM
Antenna	B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5775
Relative permittivity (real part)	48.2
Conductivity (S/m)	6.00
Variation (%)	2.59

Maximum location: X=10.00, Y=46.00
SAR Peak: 0.97 W/kg

SAR 10g (W/Kg)	0.047420
SAR 1g (W/Kg)	0.210970

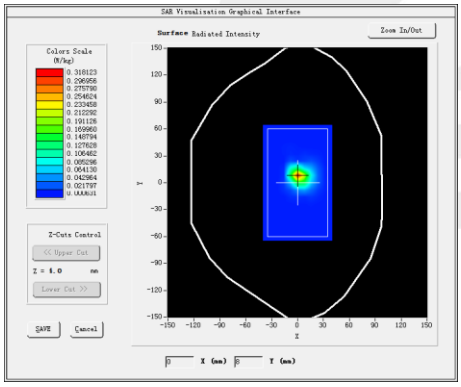
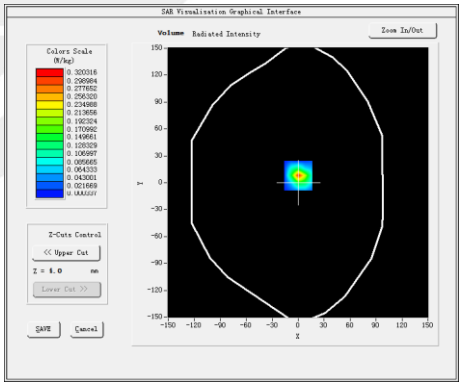
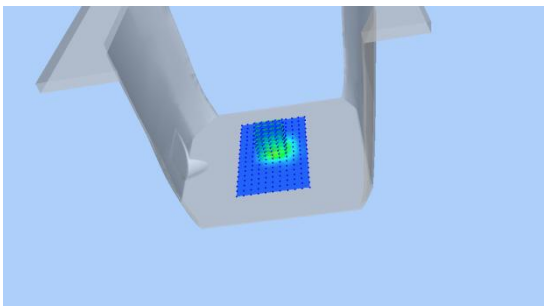
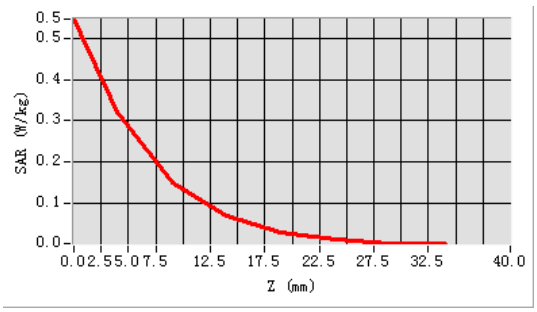
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 21: DUT: EyeOn; EUT Model: EyeOn-14WE

Test Date	2020-04-01
Probe	SN 41/18 EPGO334
ConvF	2.02
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Validation plane
Device Position	Body back
Band	Bluetooth
Signal	Bluetooth
Frequency (MHz)	2441
Relative permittivity (real part)	52.70
Conductivity (S/m)	1.95
Variation (%)	-0.47

Maximum location: X=0.00, Y=8.00
SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.094253
SAR 1g (W/Kg)	0.263493

SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※