

SAR EVALUATION REPORT

For

Autel Robotics Co., Ltd.

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FCC ID: 2AGNTEF9RC2458A
IC: 20910-EF9RC2458A

Report Type: Original Report	Product Type: Autel Smart Controller
Report Number: SZ1210507-15794E-20	
Report Date: 2021-05-25	
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Attestation of Test Results			
EUT Information	EUT Description	Autel Smart Controller	
	Tested Model	EF9-2	
	FCC ID	2AGNTEF9RC2458A	
	IC	20910-EF9RC2458A	
	Serial Number	SZ1210507-15794E-SA-S1	
	Test Date	2021-04-01 ~ 2021-05-08	
MODE		Max. SAR Level(s) Reported(W/kg)	Limit
SRD 2.4G	10g Extremity SAR	0.98	4.0 W/kg
SRD 5.8G	10g Extremity SAR	1.14	
WLAN0 2.4G	10g Extremity SAR	0.46	
WLAN0 5.2G	10g Extremity SAR	0.67	
WLAN0 5.8G	10g Extremity SAR	0.82	
Simultaneous	10g Extremity SAR	1.75	
SRD 2.4G	1g Body SAR	1.29	1.6 W/kg
SRD 5.8G	1g Body SAR	1.36	
WLAN0 2.4G	1g Body SAR	0.39	
WLAN0 5.2G	1g Body SAR	0.38	
WLAN0 5.8G	1g Body SAR	0.54	
Simultaneous	1g Body SAR	1.38	
Applicable Standards	FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devices		
	RSS-102 Issue 5 March 2015 Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands).		
	RF Exposure Procedures: TCB Workshop April 2019		
	IEEE1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human H ead from Wireless Communications Devices: Measurement Techniques		
	IEC 62209-1:2016 Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)		
	KDB procedures KDB 447498 D01 General RF Exposure Guidance v06. KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 248227 D01 802 11 Wi-Fi SAR v02r02		
Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in FCC 47 CFR part 2.1093/RSS-102 Issue 5 March 2015 and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.			
The results and statements contained in this report pertain only to the device(s) evaluated.			

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	SZ1210507-15794E-20	Original Report	2021-05-25

EUT DESCRIPTION

This report has been prepared on behalf of **Autel Robotics Co., Ltd.** and their product **Autel Smart Controller**, Model: **EF9-2**, FCC ID: **2AGNTEF9RC2458A**, IC: **20910-EF9RC2458A** or the EUT (Equipment under Test) as referred to in the rest of this report.

All measurement and test data in this report was gathered from production sample serial number: SZ1210507-15794E-SA-S1 (Assigned by BACL). The EUT was received on 2021-05-07.

Technical Specification

Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	External Antenna for SRD 2.4G/5.8G
	Internal Antenna for WLAN0
Operation Mode :	SRD 2.4G, SRD 5.8G, WLAN0 2.4G/5.2G/5.8G,
Accessories:	None
Frequency Band:	SRD 2.4G_1.25M: 2405-2475MHz SRD 2.4G_20M: 2412-2460MHz SRD 5.8G_1.25M: 5731-5801MHz SRD 5.8G_20M: 5740-5820MHz WLAN 2.4G: 2412-2462MHz WLAN 5.2G: 5150-5250MHz WLAN 5.8G: 5725-5850MHz
Conducted RF Power:	SRD 2.4G: 22.68 dBm SRD 5.8G: 18.53 dBm WLAN0 2.4G: 16.29 dBm WLAN0 5.2G: 11.04 dBm WLAN0 5.8G: 10.87 dBm
Power Source:	11.55 VDC Rechargeable Battery
Normal Operation:	Handheld and Close to Body

REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by EN62209-1 for an uncontrolled environment. According to the Standard, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

SAR Limits**FCC&IC Limit**

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

CE Limit

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 10 g of tissue)	2.0	10
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual 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).

General Population/Uncontrolled environments Spatial Peak limit 4.0W/kg for 10g Extremity SAR and 1.6W/kg for 1g Body SAR applied to the EUT.

FACILITIES

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier : CN0022.

The test sites and measurement facilities used to collect data are located at:

☒ SAR Lab 1	☐ SAR Lab 2
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Declarations

1. BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “△”. Customer model name, addresses, names, trademarks etc. are not considered data.
2. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
3. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
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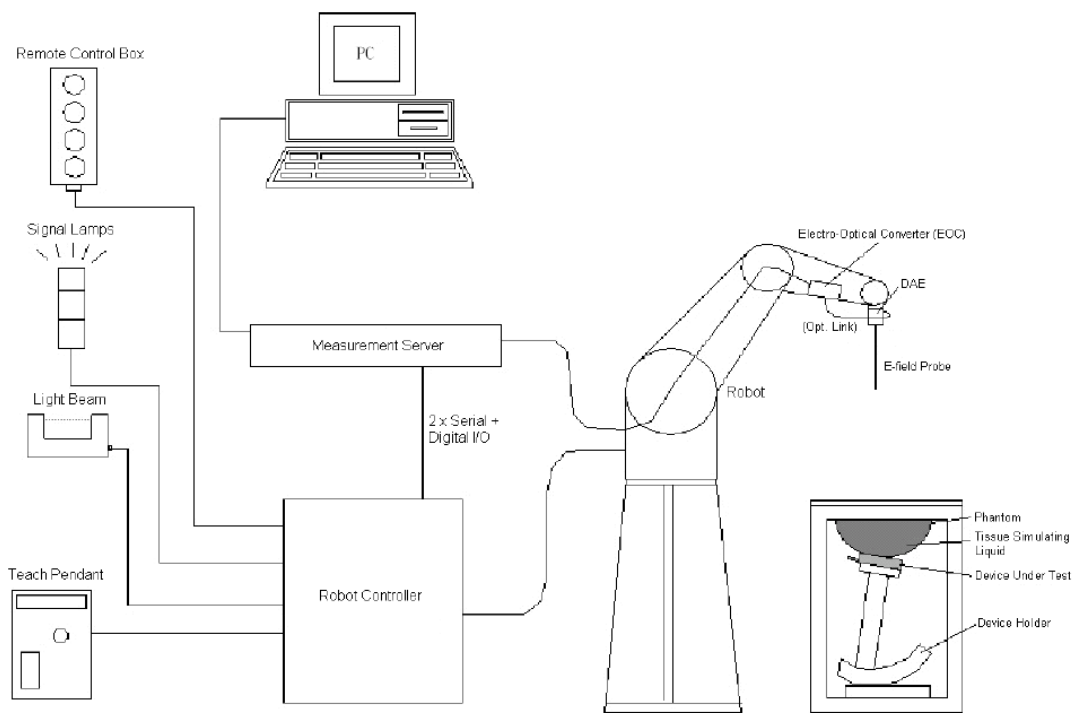
DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY5 System Description

The DASY5 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.



The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200M Ω ; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7329 Calibrated: 2020/11/30

Calibration Frequency Point(MHz)	Frequency Range(MHz)		Conversion Factor		
	From	To	X	Y	Z
750 Head	650	850	10.13	10.13	10.13
900 Head	850	1000	9.79	9.79	9.79
1450 Head	1350	1550	8.66	8.66	8.66
1750 Head	1650	1850	8.41	8.41	8.41
1900 Head	1850	2000	8.14	8.14	8.14
2100 Head	2000	2200	8.15	8.15	8.15
2300 Head	2200	2400	7.80	7.80	7.80
2450 Head	2400	2550	7.44	7.44	7.44
2600 Head	2550	2700	7.29	7.29	7.29
5200 Head	5090	5250	5.55	5.55	5.55
5300 Head	5250	5410	5.28	5.28	5.28
5600 Head	5490	5700	4.76	4.76	4.76
5800 Head	5700	5910	4.72	4.72	4.72

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness

increases to 6 mm). The phantom has three measurement areas:

- _ Left Head
- _ Right Head
- _ Flat phantom

The phantom table for the DASY systems based on the robots have the size of 100 x 50 x 85 cm (L x W x H). For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)



A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible. Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The above mentioned robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm, with the side length of the 10g cube is 21.5mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1:2016

Recommended Tissue Dielectric Parameters for Head liquid

Table A.3 – Dielectric properties of the head tissue-equivalent liquid

Frequency MHz	Relative permittivity ϵ_r	Conductivity (σ) S/m
300	45,3	0,87
450	43,5	0,87
<i>750</i>	<i>41,9</i>	<i>0,89</i>
835	41,5	0,90
900	41,5	0,97
1 450	40,5	1,20
<i>1 500</i>	<i>40,4</i>	<i>1,23</i>
<i>1 640</i>	<i>40,2</i>	<i>1,31</i>
<i>1 750</i>	<i>40,1</i>	<i>1,37</i>
1 800	40,0	1,40
1 900	40,0	1,40
2 000	40,0	1,40
<i>2 100</i>	<i>39,8</i>	<i>1,49</i>
<i>2 300</i>	<i>39,5</i>	<i>1,67</i>
2 450	39,2	1,80
<i>2 600</i>	<i>39,0</i>	<i>1,96</i>
3 000	38,5	2,40
<i>3 500</i>	<i>37,9</i>	<i>2,91</i>
<i>4 000</i>	<i>37,4</i>	<i>3,43</i>
<i>4 500</i>	<i>36,8</i>	<i>3,94</i>
<i>5 000</i>	<i>36,2</i>	<i>4,45</i>
<i>5 200</i>	<i>36,0</i>	<i>4,66</i>
<i>5 400</i>	<i>35,8</i>	<i>4,86</i>
<i>5 600</i>	<i>35,5</i>	<i>5,07</i>
<i>5 800</i>	<i>35,3</i>	<i>5,27</i>
<i>6 000</i>	<i>35,1</i>	<i>5,48</i>

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown *in italics*). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

Note:

- 1, Effective February 19, 2019, FCC has permitted the use of single head-tissue simulating liquid specified in IEC 62209-1 for all SAR tests.
- 2, Mix and Match of traditional FCC SAR TSLs and IEC 62209-1 TSL in a single application is not permitted TSL can be changed in a Permissive Change.
- 3, If SAR increases and original SAR > 1.2 W/kg, additional SAR measurements will be required IEC 62209-1 TSL is an alternative, not mandatory at this time.
- 4, If FCC parameters are used, $\pm 5\%$ tolerance. If IEC parameters, $\pm 10\%$.
- 5, In this case, IEC parameters applied, the tolerance is $\pm 10\%$.

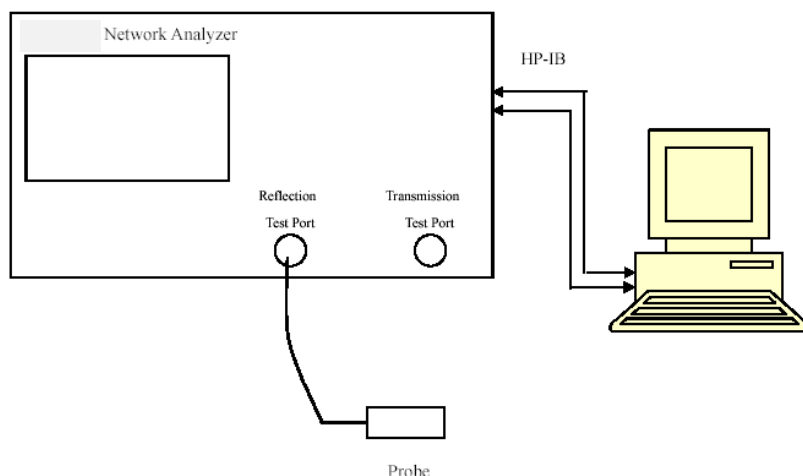
EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.10	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1470	NCR	NCR
Data Acquisition Electronics	DAE4	772	2020/11/23	2021/11/22
E-Field Probe	EX3DV4	7329	2020/11/30	2021/11/29
Mounting Device	MD4HHTV5	BJPCTC0152	NCR	NCR
Twin SAM	Twin SAM V5.0	1874	NCR	NCR
Dipole, 2450 MHz	D2450V2	971	2018/6/26	2021/6/25
Dipole,5GHz	D5GHzV2	1246	2019/11/19	2022/11/18
Simulated Tissue 2450 MHz	TS-2450	2003245001	Each Time	/
Simulated Tissue 5250 MHz	TS-5250	2001525001	Each Time	/
Simulated Tissue 5800 MHz	TS-5800	2001580001	Each Time	/
Network Analyzer	8753C	3033A02857	2020/9/12	2021/9/11
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
synthesized signal generator	8665B	3438a00584	2020/9/12	2021/9/11
EPM Series Power Meter	E4419B	MY45103907	2020/5/9	2021/5/8
Power Amplifier	ZVA-183-S+	5969001149	NCR	NCR
Directional Coupler	441493	520Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
2403.5	Simulated Tissue 2450 MHz	39.442	1.729	39.29	1.76	0.39	-1.76	± 10
2407.5	Simulated Tissue 2450 MHz	39.352	1.737	39.29	1.76	0.16	-1.31	± 10
2412	Simulated Tissue 2450 MHz	39.211	1.766	39.28	1.77	-0.18	-0.23	± 10
2437	Simulated Tissue 2450 MHz	39.095	1.798	39.23	1.79	-0.34	0.45	± 10
2439.5	Simulated Tissue 2450 MHz	38.939	1.801	39.22	1.79	-0.72	0.61	± 10
2450	Simulated Tissue 2450 MHz	38.786	1.822	39.2	1.8	-1.06	1.22	± 10
2462	Simulated Tissue 2450 MHz	38.542	1.845	39.18	1.81	-1.63	1.93	± 10
2471.5	Simulated Tissue 2450 MHz	38.321	1.859	39.17	1.82	-2.17	2.14	± 10
2473.5	Simulated Tissue 2450 MHz	38.305	1.865	39.17	1.83	-2.21	1.91	± 10

*Liquid Verification above was performed on 2021-04-03.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
5180	Simulated Tissue 5250 MHz	36.213	4.505	36.02	4.64	0.54	-2.91	± 10
5200	Simulated Tissue 5250 MHz	35.981	4.583	36	4.66	-0.05	-1.65	± 10
5240	Simulated Tissue 5250 MHz	35.763	4.72	35.96	4.7	-0.55	0.43	± 10
5250	Simulated Tissue 5250 MHz	35.677	4.794	35.95	4.71	-0.76	1.78	± 10

*Liquid Verification above was performed on 2021-04-01.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
5729.5	Simulated Tissue 5800 MHz	35.675	5.231	35.37	5.2	0.86	0.6	± 10
5741.5	Simulated Tissue 5800 MHz	35.591	5.307	35.36	5.21	0.65	1.86	± 10
5745	Simulated Tissue 5800 MHz	35.568	5.334	35.36	5.22	0.59	2.18	± 10
5752.5	Simulated Tissue 5800 MHz	35.503	5.397	35.35	5.22	0.43	3.39	± 10
5785	Simulated Tissue 5800 MHz	35.401	5.416	35.32	5.26	0.23	2.97	± 10
5800	Simulated Tissue 5800 MHz	35.298	5.466	35.3	5.27	-0.01	3.72	± 10
5825	Simulated Tissue 5800 MHz	35.072	5.503	35.28	5.3	-0.59	3.83	± 10

*Liquid Verification above was performed on 2021-04-02.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
2412	Simulated Tissue 2450 MHz	39.212	1.743	39.28	1.77	-0.17	-1.53	± 10
2435	Simulated Tissue 2450 MHz	39.057	1.769	39.23	1.79	-0.44	-1.17	± 10
2440	Simulated Tissue 2450 MHz	38.968	1.793	39.22	1.79	-0.64	0.17	± 10
2450	Simulated Tissue 2450 MHz	38.902	1.805	39.2	1.8	-0.76	0.28	± 10
2460	Simulated Tissue 2450 MHz	38.833	1.817	39.19	1.81	-0.91	0.39	± 10

*Liquid Verification above was performed on 2021-05-08.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
5740	Simulated Tissue 5800 MHz	35.368	5.018	35.36	5.21	0.02	-3.69	± 10
5765	Simulated Tissue 5800 MHz	35.162	5.226	35.34	5.24	-0.5	-0.27	± 10
5779	Simulated Tissue 5800 MHz	35.026	5.349	35.32	5.25	-0.83	1.89	± 10
5800	Simulated Tissue 5800 MHz	34.921	5.439	35.3	5.27	-1.07	3.21	± 10
5820	Simulated Tissue 5800 MHz	34.723	5.501	35.28	5.29	-1.58	3.99	± 10

*Liquid Verification above was performed on 2021-05-08.

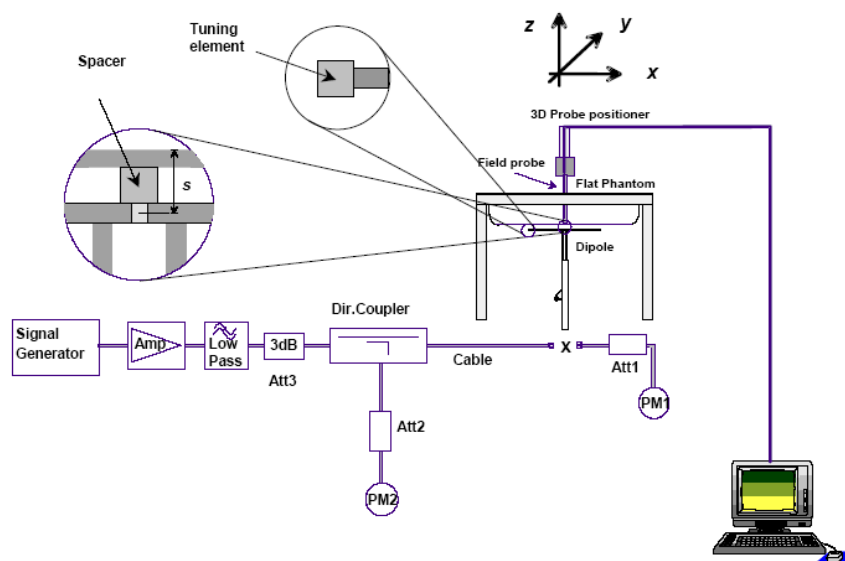
System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The spacing distances in the **System Verification Setup Block Diagram** is given by the following:

- $s = 15 \text{ mm} \pm 0,2 \text{ mm}$ for $300 \text{ MHz} \leq f \leq 1\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $1\,000 \text{ MHz} < f \leq 3\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $3\,000 \text{ MHz} < f \leq 6\,000 \text{ MHz}$.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2021/4/3	2450 MHz	Simulated Tissue 2450 MHz	100	1g	5.56	55.6	53.3	4.32	±10
			100	10g	2.54	25.4	25	1.6	±10
2021/5/8	2450 MHz	Simulated Tissue 2450 MHz	100	1g	5.43	54.3	53.3	1.88	±10
			100	10g	2.49	24.9	25	-0.4	±10
2021/4/1	5250 MHz	Simulated Tissue 5250 MHz	100	1g	7.74	77.4	75	3.2	±10
			100	10g	2.21	22.1	21.3	3.76	±10
2021/4/2	5800 MHz	Simulated Tissue 5800 MHz	100	1g	7.86	78.6	77.9	0.9	±10
			100	10g	2.23	22.3	22	1.36	±10
2021/5/8	5800 MHz	Simulated Tissue 5800 MHz	100	1g	8.03	80.3	77.9	3.08	±10
			100	10g	2.28	22.8	22	3.64	±10

*The SAR values above are normalized to 1 Watt forward power.

SAR SYSTEM VALIDATION DATA

System Performance 2450MHz test on 2021/04/03

DUT: D2450V2; Type: 2450 MHz; Serial: 971

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 38.786$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

D ASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2450 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 10.2 W/kg

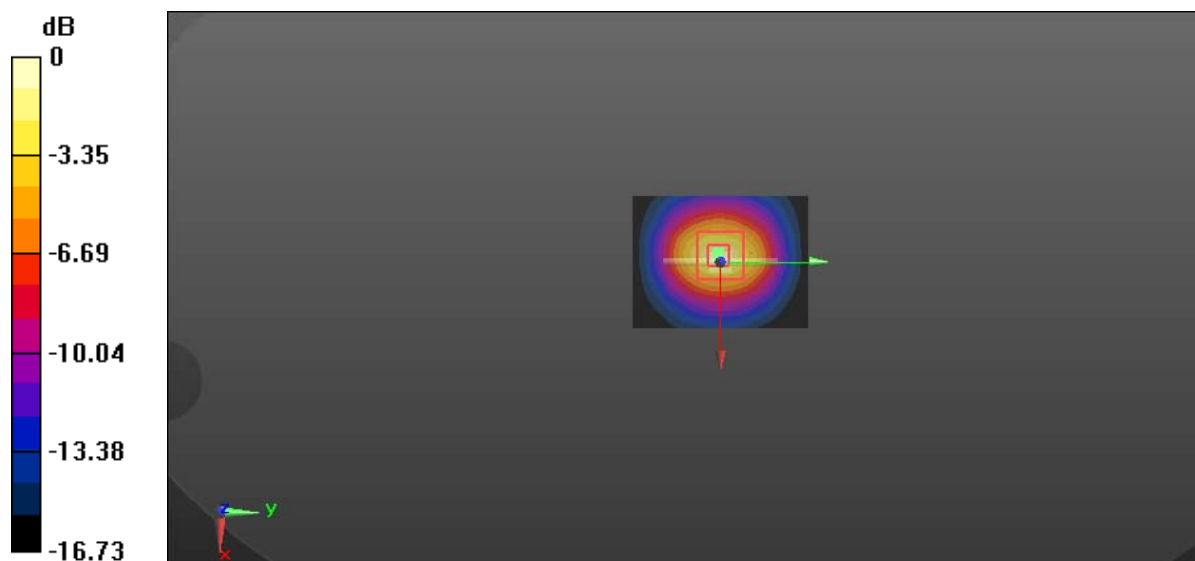
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 56.79 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 5.56 W/kg; SAR(10 g) = 2.54 W/kg

Maximum value of SAR (measured) = 9.35 W/kg



0 dB = 9.35 W/kg = 9.71 dBW/kg

System Performance 2450MHz test on 2021/05/08**DUT: D2450V2; Type: 2450 MHz; Serial: 971**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.805$ S/m; $\epsilon_r = 38.902$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

D ASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2450 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 9.99 W/kg

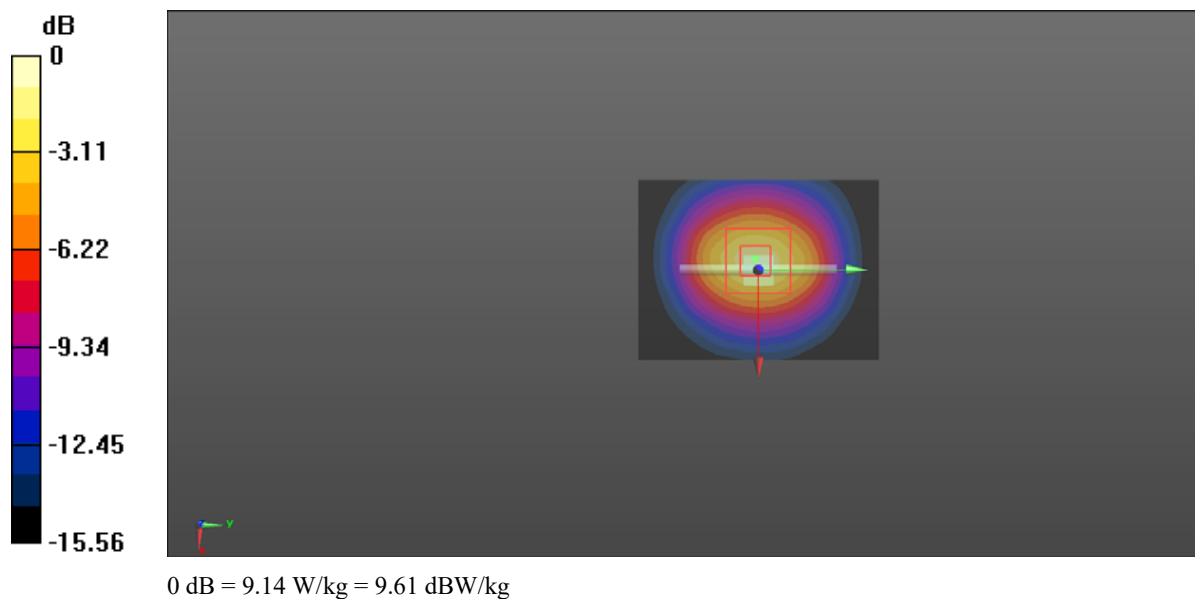
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 56.16 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.43 W/kg; SAR(10 g) = 2.49 W/kg

Maximum value of SAR (measured) = 9.14 W/kg



System Performance 5250 MHz test on 2021/04/01**DUT: Dipole D5GHzV2; Type: 5250 MHz; Serial: SN:1246**

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.794$ S/m; $\epsilon_r = 36.377$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5250 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 22.6 W/kg

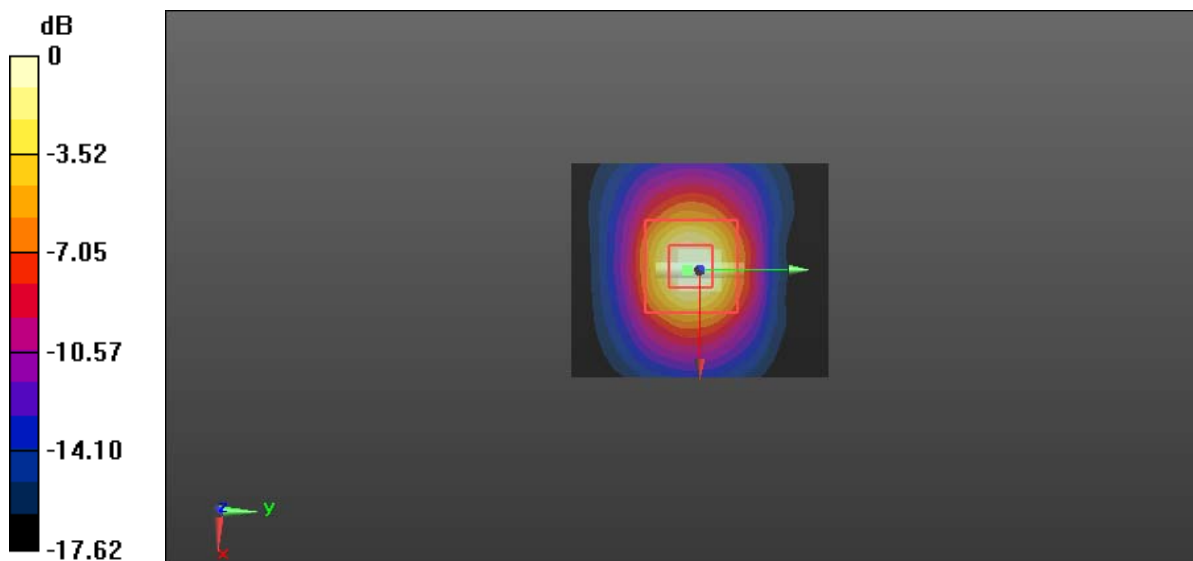
Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=2$ mm

Reference Value = 43.33 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 34.5 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

System Performance 5800 MHz test on 2021/04/02**DUT: Dipole D5GHzV2; Type: 5800 MHz; Serial: 1246**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.466$ S/m; $\epsilon_r = 35.298$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5800 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 26.9 W/kg

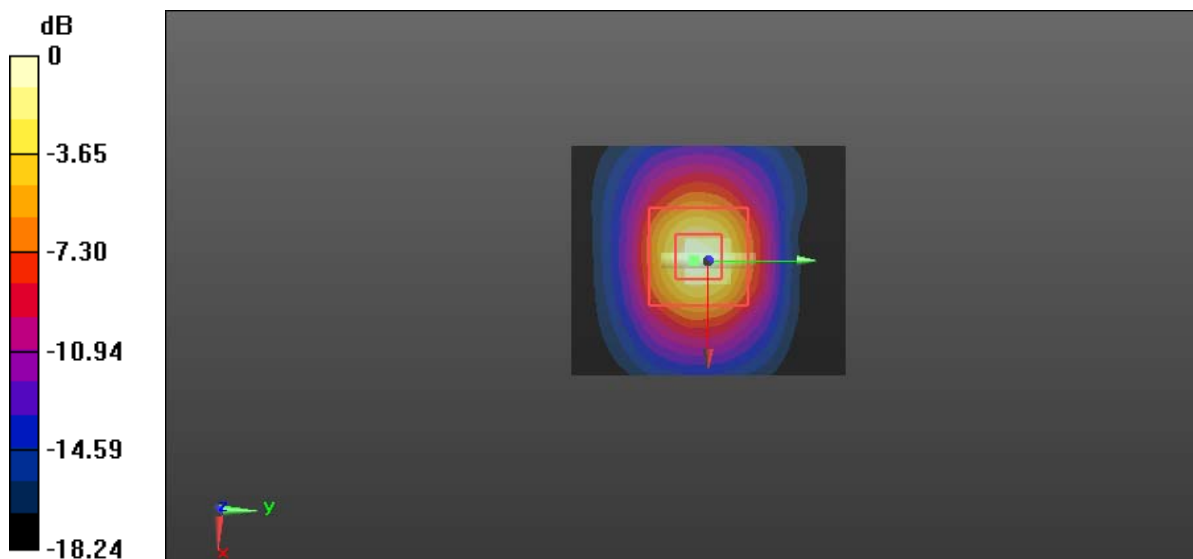
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 42.47 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 37.4 W/kg

SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 20.8 W/kg = 13.18 dBW/kg

System Performance 5800 MHz test on 2021/05/08**DUT: Dipole D5GHzV2; Type: 5800 MHz; Serial: 1246**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.439$ S/m; $\epsilon_r = 34.921$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5800 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (51x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 27.6 W/kg

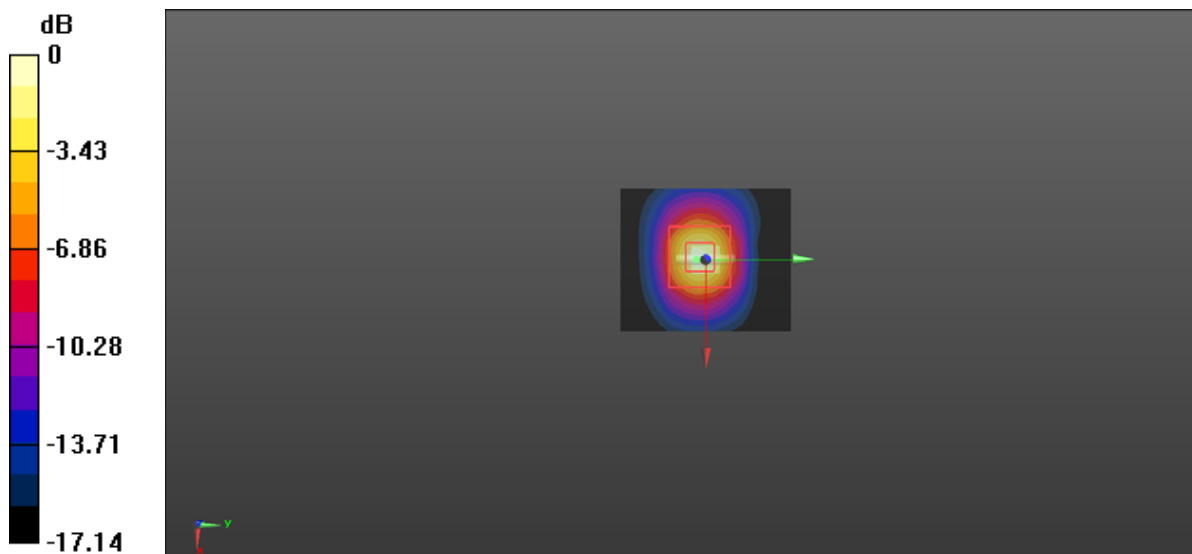
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 42.95 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 38.4 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.28 W/kg

Maximum value of SAR (measured) = 21.4 W/kg



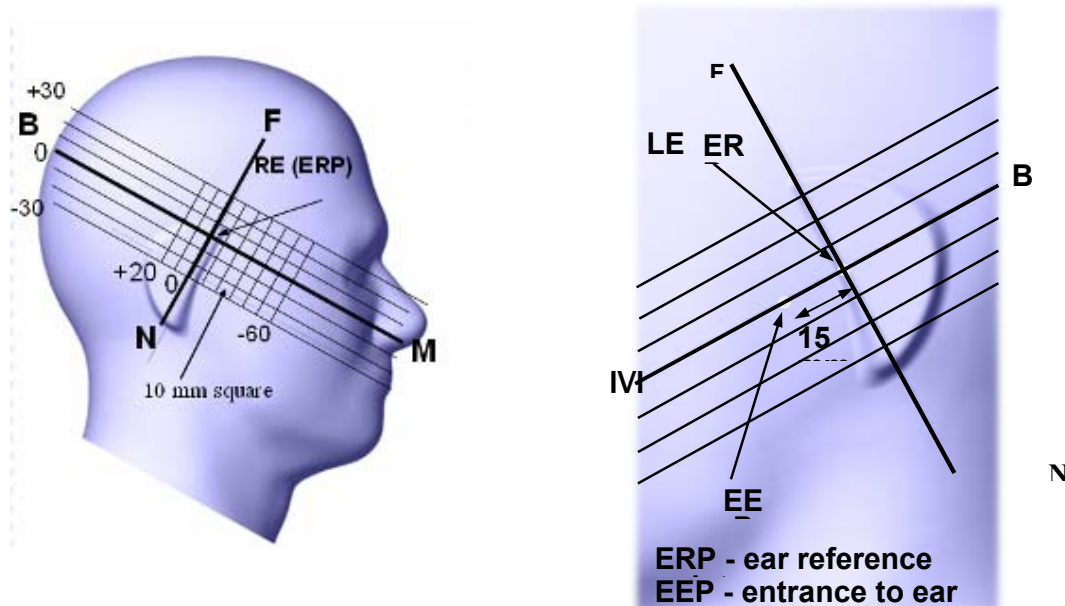
0 dB = 21.4 W/kg = 13.30 dBW/kg

EUT TEST STRATEGY AND METHODOLOGY

Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the “test device reference point” located along the “vertical centerline” on the front of the device aligned to the “ear reference point”. The “test device reference point” should be located at the same level as the center of the earpiece region. The “vertical centerline” should bisect the front surface of the handset at its top and bottom edges. A “ear reference point” is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the “phantom reference plane” defined by the three lines joining the center of each “ear reference point” (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the “N-F” line defined along the base of the ear spacer that contains the “ear reference point”. For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The “test device reference point” is aligned to the “ear reference point” on the head phantom and the “vertical centerline” is aligned to the “phantom reference plane”. This is called the “initial ear position”. While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:



Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the “ear reference point” or along the “N-F” line for the SCC-34/SC-2 head phantom.

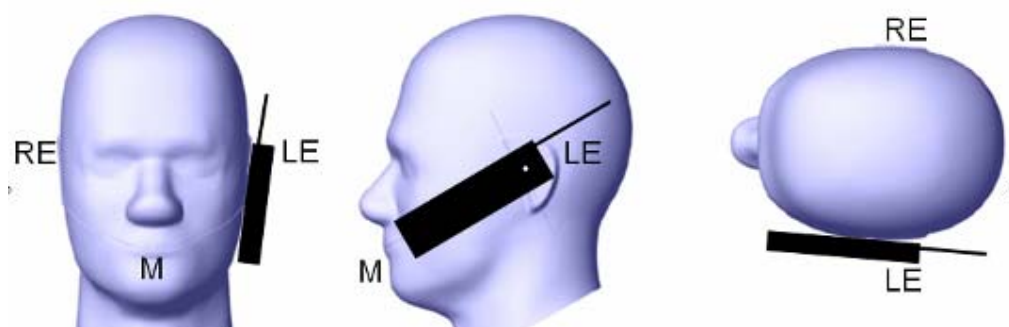
This test position is established:

When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek /Touch Position



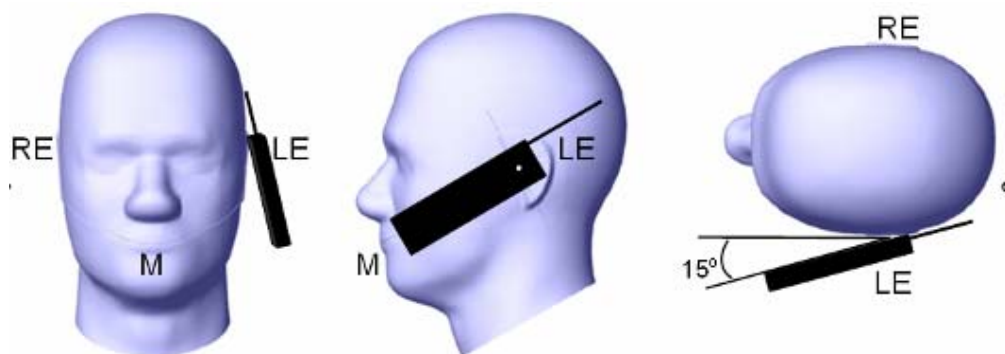
Ear/Tilt Position

With the handset aligned in the “Cheek/Touch Position”:

1) If the earpiece of the handset is not in full contact with the phantom’s ear spacer (in the “Cheek/Touch position”) and the peak SAR location for the “Cheek/Touch” position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the “initial ear position” by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.

2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both “ear reference points” (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the “test device reference point” until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point is by 15° to 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both “ear reference points” until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the “Cheek/Touch” and “Ear/Tilt” positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

Ear /Tilt 15° Position**Test positions for body-worn and other configurations**

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

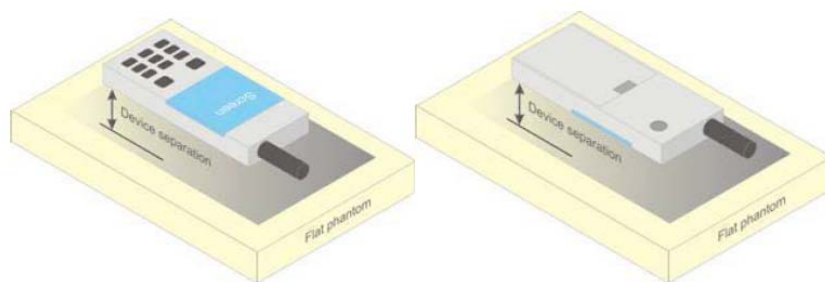


Figure 5 – Test positions for body-worn devices

Test Distance for SAR Evaluation

For Handheld mode(10g Extremity SAR) the EUT(Equipment Under Test) is set directly against the phantom, the test distance is 0mm;
For Close to Body mode(1g Body SAR) the EUT is set 10mm away from the phantom, the test distance is 10mm.

SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 10 mm x 10 mm, and the SAR distribution was determined by integrated grid of 1.0 mm x 1.0 mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

- 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

- 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

CONDUCTED OUTPUT POWER MEASUREMENT

Test Procedure

The RF output of the transmitter was connected to the input port of the Power Meter through Connector.



SRD/WLAN

Maximum Target Output Power

Band	Mode	Maximum Target Output Power (dBm)	
		Chain 0	Chain 1
SRD 2.4GHz	1.25 M	22.7	/
	20 M	15.3	/
SRD 5.8GHz	1.25 M	18.6	/
	20 M	13	/
WLAN0 2.4G	802.11b	16.4	15.8
	802.11g	16.4	15.8
	802.11n20	16.4	15.8
WLAN0 5.2G	802.11a	11.1	11
	802.11n20	11.1	11
	802.11n40	11.1	11
	802.11ac20	11.1	11
	802.11ac40	11.1	11
	802.11ac80	11.1	11
WLAN0 5.8G	802.11a	10.9	10.5
	802.11n20	10.9	10.5
	802.11n40	10.9	10.5
	802.11ac20	10.9	10.5
	802.11ac40	10.9	10.5
	802.11ac80	10.9	10.5

Test Results:**SRD 2.4G:**

Mode	Frequency (MHz)	Duty Cycle	Max Average Conducted Output Power (dBm)
1.25 MHz	2405	17.39%	22.68
	2440		22.52
	2475		22.61
20 MHz	2412	75.16%	15.26
	2435		15.03
	2460		15.32

SRD 5.8G:

Mode	Frequency (MHz)	Duty Cycle	Max Average Conducted Output Power (dBm)
1.25 MHz	5731	16.81%	18.53
	5765		18.31
	5801		18.42
20 MHz	5740	76.31%	12.79
	5779		12.85
	5820		12.71

WLAN0 2.4G:

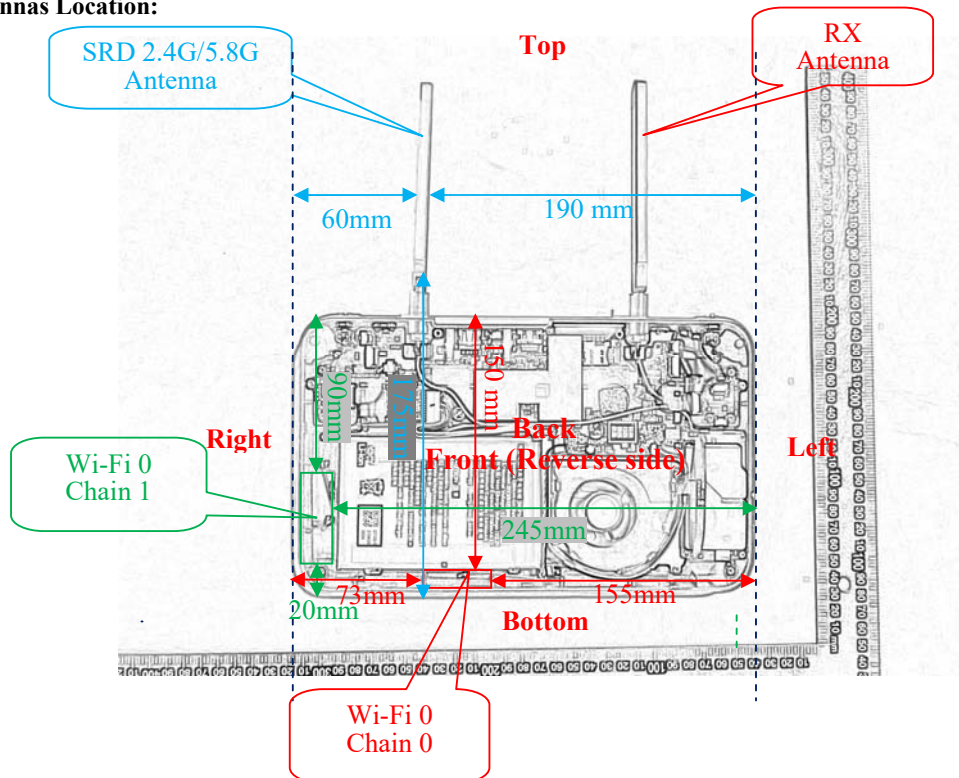
Mode	Frequency (MHz)	Data Rate	Duty Cycle	Max Average Conducted Output Power (dBm)		
				Chain 0	Chain 1	Total
802.11 b	2412	1Mbps	100%	16.09	15.52	/
	2437			16.17	15.67	/
	2462			16.29	15.76	/
802.11 g	2412	6Mbps	98.75%	15.66	14.39	/
	2437			16.28	15.32	/
	2462			16.17	15.43	/
802.11 n20	2412	MCS8	95.73%	15.57	14.35	18.01
	2437			15.86	15.22	18.56
	2462			16.23	15.79	19.03

WLAN0 5G:

Band	Mode	Frequency (MHz)	Data Rate	Max Average Conducted Output Power (dBm)		
				Chain 0	Chain 1	Total
5.2G	802.11a	5180	6Mbps	10.86	10.73	/
		5200		10.95	10.87	/
		5240		11.04	10.98	/
	802.11n20	5180	MCS8	10.46	10.58	13.53
		5200		10.68	10.86	13.78
		5240		11.07	10.97	14.03
	802.11n40	5190	MCS8	9.94	9.65	12.81
		5230		10.46	10.52	13.5
	802.11ac20	5180	MCS8	10.19	9.67	12.95
		5200		10.15	9.98	13.08
		5240		10.33	10.79	13.58
	802.11ac40	5190	MCS8	10.47	10.68	13.59
		5230		10.36	10.72	13.55
	802.11ac80	5210	MCS9	10.35	10.46	13.42
5.8G	802.11a	5745	6Mbps	10.67	10.27	/
		5785		10.79	10.38	/
		5825		10.87	10.42	/
	802.11n20	5745	MCS8	10.32	9.57	12.97
		5785		10.69	9.75	13.26
		5825		10.85	9.79	13.36
	802.11n40	5755	MCS8	10.76	9.36	13.13
		5795		10.82	9.27	13.12
	802.11ac20	5745	MCS8	9.93	9.32	12.65
		5785		10.02	9.52	12.79
		5825		10.45	9.72	13.11
	802.11ac40	5755	MCS8	10.37	9.91	13.16
		5795		10.39	9.86	13.14
	802.11ac80	5775	MCS9	10.16	10.34	13.26

SAR EXCLUSION CONSIDERATIONS

Antennas Location:



Antenna Distance To Edge

Antenna Distance To Edge(mm)						
Mode	Back	Front	Left	Right	Top	Bottom
SRD 2.4G/5.8G	25	12	190	60	<5	175
Wi-Fi 0 Chain 0	<5	<5	155	73	150	<5
Wi-Fi 0 Chain 1	<5	<5	245	<5	90	20

Standalone SAR test exclusion considerations(KDB)

Handheld

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Calculated value	Threshold (10-g)	SAR Test Exclusion
SRD 2.4G	2475	22.7	186.2	0	58.59	7.5	NO
SRD 5.8G	5801	18.6	72.4	0	34.88	7.5	NO
Wi-Fi0 2.4G Chain 0	2462	16.4	43.7	0	13.71	7.5	NO
Wi-Fi0 5.2G Chain 0	5240	11.1	12.9	0	5.91	7.5	Yes
Wi-Fi0 5.8G Chain 0	5825	10.9	12.3	0	5.94	7.5	Yes
Wi-Fi0 5.8G Chain 1	5825	10.5	11.2	0	5.41	7.5	Yes

Close to Body

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
SRD 2.4G	2475	22.7	186.2	10	29.29	3	NO
SRD 5.8G	5801	18.6	72.4	10	17.44	3	NO
Wi-Fi0 2.4G Chain 0	2462	16.4	43.7	10	6.86	3	NO
Wi-Fi0 2.4G Chain 1	2462	15.8	38	10	5.96	3	NO
Wi-Fi0 5.2G Chain 0	5240	11.1	12.9	10	2.95	3	Yes
Wi-Fi0 5.2G Chain 1	5240	11	12.6	10	2.88	3	Yes
Wi-Fi0 5.8G Chain 0	5825	10.9	12.3	10	2.97	3	Yes
Wi-Fi0 5.8G Chain 1	5825	10.5	11.2	10	2.7	3	Yes

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Standalone SAR test exclusion considerations(RSS 102)**Handheld**

Mode	Frequency (MHz)	Pavg (dBm)	Antenna Gain(dBi)	Pavg (mW)	Distance (mm)	Threshold (Power,mW)	SAR Test Exclusion
SRD 2.4G	2475	22.7	4.8	562.3	0	9.9	NO
SRD 5.8G	5801	18.6	5.6	263.0	0	2.55	NO
Wi-Fi0 2.4G Chain 0	2462	16.4	1.4	60.3	0	9.95	NO
Wi-Fi0 2.4G Chain 1	2462	15.8	1.4	52.5	0	9.95	NO
Wi-Fi0 5.2G Chain 0	5240	11.1	3.1	26.3	0	3.1	NO
Wi-Fi0 5.2G Chain 1	5240	11	2.4	21.9	0	3.1	NO
Wi-Fi0 5.8G Chain 0	5825	10.9	3.1	25.1	0	2.55	NO
Wi-Fi0 5.8G Chain 1	5825	10.5	2.4	19.5	0	2.55	NO

Close to Body

Mode	Frequency (MHz)	Pavg (dBm)	Antenna Gain(dBi)	Pavg (mW)	Distance (mm)	Threshold (Power,mW)	SAR Test Exclusion
SRD 2.4G	2475	22.7	4.8	562.3	10	6.98	NO
SRD 5.8G	5801	18.6	5.6	263.0	10	6	NO
Wi-Fi0 2.4G Chain 0	2462	16.4	1.4	60.3	10	6.99	NO
Wi-Fi0 2.4G Chain 1	2462	15.8	1.4	52.5	10	6.99	NO
Wi-Fi0 5.2G Chain 0	5240	11.1	3.1	26.3	10	6	NO
Wi-Fi0 5.2G Chain 1	5240	11	2.4	21.9	10	6	NO
Wi-Fi0 5.8G Chain 0	5825	10.9	3.1	25.1	10	6	NO
Wi-Fi0 5.8G Chain 1	5825	10.5	2.4	19.5	10	6	NO

Note: Only when SAR test was excluded under **KDB** and **RSS-102 Issue 5 March 2015**, SAR test is not required.

Standalone SAR test exclusion considerations(KDB):**Handheld Mode:**

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Test Exclusion Distance (mm)
SRD 2.4G	2475	22.7	186.2	39.1
SRD 5.8G	5801	18.6	72.4	23.3
Wi-Fi0 2.4G Chain 0	2462	16.4	43.7	9.2
Wi-Fi0 2.4G Chain 1	2462	15.8	38	8
Wi-Fi0 5.2G Chain 0	5240	11.1	12.9	<5
Wi-Fi0 5.2G Chain 1	5240	11	12.6	<5
Wi-Fi0 5.8G Chain 0	5825	10.9	12.3	<5
Wi-Fi0 5.8G Chain 1	5825	10.5	11.2	<5

Close to Body Mode:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Test Exclusion Distance (mm)
SRD 2.4G	2475	22.7	186.2	59.1
SRD 5.8G	5801	18.6	72.4	51.1
Wi-Fi0 2.4G Chain 0	2462	16.4	43.7	22.9
Wi-Fi0 2.4G Chain 1	2462	15.8	38	19.9
Wi-Fi0 5.2G Chain 0	5240	11.1	12.9	9.9
Wi-Fi0 5.2G Chain 1	5240	11	12.6	9.7
Wi-Fi0 5.8G Chain 0	5825	10.9	12.3	9.9
Wi-Fi0 5.8G Chain 1	5825	10.5	11.2	9.1

Handheld Mode:

SAR Test Exclusion for the EUT Edges Considerations						
Mode	Back	Front	Left	Right	Top	Bottom
SRD 2.4G	Required	Required	Exclusion	Exclusion	Required	Exclusion
SRD 5.8G	Required	Required	Exclusion	Exclusion	Required	Exclusion
Wi-Fi0 2.4G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 2.4G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion
Wi-Fi0 5.2G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 5.2G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion
Wi-Fi0 5.8G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 5.8G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion

Close to Body Mode:

SAR Test Exclusion for the EUT Edges Considerations						
Mode	Back	Front	Left	Right	Top	Bottom
SRD 2.4G	Required	Required	Exclusion	Exclusion	Required	Exclusion
SRD 5.8G	Required	Required	Exclusion	Exclusion	Required	Exclusion
Wi-Fi0 2.4G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 2.4G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion
Wi-Fi0 5.2G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 5.2G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion
Wi-Fi0 5.8G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 5.8G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion

SAR test exclusion for the EUT edge considerations detail:**Distance < 50mm (To Edges)**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

5. The Time based average Power is used for calculation

Distance > 50mm (To Edges)

At 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following:

- [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) $\cdot$ ($f(\text{MHz})/150$)] mW, at 100 MHz to 1500 MHz
- [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) $\cdot$ 10] mW at > 1500 MHz and ≤ 6 GHz.

Standalone SAR test exclusion considerations(RSS 102):**Handheld Mode:**

Mode	Frequency (MHz)	Pavg (dBm)	Antenna Gain(dBi)	Pavg (mW)	Test Exclusion Distance (mm)
SRD 2.4G	2475	22.7	4.8	562.3	14.4
SRD 5.8G	5801	18.6	5.6	263.0	17.4
Wi-Fi0 2.4G Chain 0	2462	16.4	1.4	60.3	10.6
Wi-Fi0 2.4G Chain 1	2462	15.8	1.4	52.5	10.2
Wi-Fi0 5.2G Chain 0	5240	11.1	3.1	26.3	7.8
Wi-Fi0 5.2G Chain 1	5240	11	2.4	21.9	7.2
Wi-Fi0 5.8G Chain 0	5825	10.9	3.1	25.1	7.8
Wi-Fi0 5.8G Chain 1	5825	10.5	2.4	19.5	6.8

Close to Body Mode:

Mode	Frequency (MHz)	Pavg (dBm)	Antenna Gain(dBi)	Pavg (mW)	Test Exclusion Distance (mm)
SRD 2.4G	2475	22.7	4.8	562.3	91.5
SRD 5.8G	5801	18.6	5.6	263.0	124
Wi-Fi0 2.4G Chain 0	2462	16.4	1.4	60.3	26.5
Wi-Fi0 2.4G Chain 1	2462	15.8	1.4	52.5	25.5
Wi-Fi0 5.2G Chain 0	5240	11.1	3.1	26.3	19.5
Wi-Fi0 5.2G Chain 1	5240	11	2.4	21.9	18
Wi-Fi0 5.8G Chain 0	5825	10.9	3.1	25.1	19.5
Wi-Fi0 5.8G Chain 1	5825	10.5	2.4	19.5	17

SAR test exclusion for the EUT edge considerations Result**Handheld Mode:**

SAR Test Exclusion for the EUT Edges Considerations						
Mode	Back	Front	Left	Right	Top	Bottom
SRD 2.4G	Exclusion	Required	Exclusion	Exclusion	Required	Exclusion
SRD 5.8G	Exclusion	Required	Exclusion	Exclusion	Required	Exclusion
Wi-Fi0 2.4G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 2.4G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion
Wi-Fi0 5.2G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 5.2G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion
Wi-Fi0 5.8G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 5.8G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion

Close to Body Mode:

SAR Test Exclusion for the EUT Edges Considerations						
Mode	Back	Front	Left	Right	Top	Bottom
SRD 2.4G	Required	Required	Exclusion	Required	Required	Exclusion
SRD 5.8G	Required	Required	Exclusion	Required	Required	Exclusion
Wi-Fi0 2.4G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 2.4G Chain 1	Required	Required	Exclusion	Required	Exclusion	Required
Wi-Fi0 5.2G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 5.2G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion
Wi-Fi0 5.8G Chain 0	Required	Required	Exclusion	Exclusion	Exclusion	Required
Wi-Fi0 5.8G Chain 1	Required	Required	Exclusion	Required	Exclusion	Exclusion

Only when the distance from the antenna to edge is large than **Test Exclusion Distance specified** under **KDB** and **RSS-102 Issue 5 March 2015**, SAR test is not required

Note: We pretested the exclusion side for the six antennas, the results were that the peak SAR was too low to evaluate, a SAR value 0.01W/kg is considered as their reported SAR, and 0.01W/kg SAR value was used for calculating simultaneous SAR considerations.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	22.2-23.4℃	22.5-23.1℃	22.3-23.2℃	22.2-23.5℃
Relative Humidity:	52%	33%	40%	47%
ATM Pressure:	100.8 kPa	100.4 kPa	100.5 kPa	100.5 kPa
Test Date:	2021/04/01	2021/04/02	2021/04/03	2021/05/08

Testing was performed by Steve Zhou, David Li, Eric Yuan.

SRD 2.4G:

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Handheld Back (0mm)	20M	2412	/	/	/	/	/	/	/
		2435	15.03	15.3	1.064	0.207	0.22	0.22	1#
		2460	/	/	/	/	/	/	/
Handheld Back Fold (0mm)	20M	2412	/	/	/	/	/	/	/
		2435	15.03	15.3	1.064	0.087	0.093	0.09	2#
		2460	/	/	/	/	/	/	/
Handheld Front (0mm)	20M	2412	/	/	/	/	/	/	/
		2435	15.03	15.3	1.064	0.13	0.138	0.14	3#
		2460	/	/	/	/	/	/	/
Handheld Top (0mm)	20M	2412	15.26	15.3	1.009	0.874	0.882	0.88	4#
		2435	15.03	15.3	1.064	0.857	0.912	0.91	5#
		2460	15.32	15.3	0.995	0.982	0.977	0.98	6#
	1.25M	2440	22.52	22.7	1.042	0.218	0.227	0.23	7#

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Close to Body Back (10mm)	20M	2412	/	/	/	/	/	/	/
		2435	15.03	15.3	1.064	0.499	0.531	0.53	8#
		2460	/	/	/	/	/	/	/
Close to Body Back Fold (10mm)	20M	2412	/	/	/	/	/	/	/
		2435	15.03	15.3	1.064	<0.01	0.01	0.01	/
		2460	/	/	/	/	/	/	/
Close to Body Front (10mm)	20M	2412	/	/	/	/	/	/	/
		2435	15.03	15.3	1.064	0.106	0.113	0.12	9#
		2460	/	/	/	/	/	/	/
Close to Body Right (10mm)	20M	2412	/	/	/	/	/	/	/
		2435	15.03	15.3	1.064	<0.01	0.01	0.01	/
		2460	/	/	/	/	/	/	/
Close to Body Top (10mm)	20M	2412	15.26	15.3	1.009	1.06	1.07	1.07	10#
		2435	15.03	15.3	1.064	1.21	1.287	1.29	11#
		2460	15.32	15.3	0.995	0.504	0.501	0.50	12#
	1.25M	2440	22.52	22.7	1.042	0.426	0.444	0.44	13#

The data above were tested on 2021/05/08.

SRD 5.8G:

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Handheld Back (0mm)	20M	5740	/	/	/	/	/	/	/
		5779	12.85	13	1.035	0.286	0.296	0.30	14#
		5820	/	/	/	/	/	/	/
Handheld Back Fold (0mm)	20M	5740	/	/	/	/	/	/	/
		5779	12.85	13	1.035	<0.01	0.01	0.01	/
		5820	/	/	/	/	/	/	/
Handheld Front (0mm)	20M	5740	/	/	/	/	/	/	/
		5779	12.85	13	1.035	0.124	0.128	0.13	15#
		5820	/	/	/	/	/	/	/
Handheld Top (0mm)	20M	5740	12.79	13	1.05	0.909	0.954	0.95	16#
		5779	12.85	13	1.035	0.913	0.945	0.95	17#
		5820	12.71	13	1.069	1.07	1.144	1.14	18#
	1.25M	5765	18.31	18.6	1.069	0.580	0.62	0.62	19#

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Close to Body Back (10mm)	20M	5740	/	/	/	/	/	/	/
		5779	12.85	13	1.035	0.493	0.51	0.51	20#
		5820	/	/	/	/	/	/	/
Close to Body Back Fold (10mm)	20M	5740	/	/	/	/	/	/	/
		5779	12.85	13	1.035	<0.01	0.01	0.01	/
		5820	/	/	/	/	/	/	/
Close to Body Front (10mm)	20M	5740	/	/	/	/	/	/	/
		5779	12.85	13	1.035	0.477	0.494	0.49	21#
		5820	/	/	/	/	/	/	/
Close to Body Right (10mm)	20M	5740	/	/	/	/	/	/	/
		5779	12.85	13	1.035	<0.01	0.01	0.01	/
		5820	/	/	/	/	/	/	/
Close to Body Top (10mm)	20M	5740	12.79	13	1.05	0.865	0.908	0.91	22#
		5779	12.85	13	1.035	1.31	1.356	1.36	23#
		5820	12.71	13	1.069	1.25	1.336	1.34	24#
	1.25M	5765	18.31	18.6	1.069	0.709	0.758	0.76	25#

The data above were tested on 2021/05/08.

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. For modes that peak SAR is too low to evaluate, a SAR value 0.01W/kg is considered as their Scaled SAR.
4. The bandwidth 20MHz was selected as primary mode, for the worst case of the primary mode other bandwidth 1.25 MHz, was selected to test.
5. According to IEC 62209-2:2010 ,If the correction ΔSAR has a positive sign, the measured SAR results shall not be corrected.

WLAN0 2.4G Chain 0:

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Handheld Back (0mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	16.17	16.4	1.054	0.059	0.062	0.06	26#
	802.11b	2462	/	/	/	/	/	/	/
Handheld Front (0mm)	802.11b	2412	16.09	16.4	1.074	0.228	0.245	0.25	27#
	802.11b	2437	16.17	16.4	1.054	0.434	0.457	0.46	28#
	802.11b	2462	16.29	16.4	1.026	0.237	0.243	0.24	29#
Handheld Bottom (0mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	16.17	16.4	1.054	0.038	0.040	0.04	30#
	802.11b	2462	/	/	/	/	/	/	/

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Close to Body Back (10mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	16.17	16.4	1.054	0.156	0.164	0.16	31#
	802.11b	2462	/	/	/	/	/	/	/
Close to Body Front (10mm)	802.11b	2412	16.09	16.4	1.074	0.215	0.231	0.23	32#
	802.11b	2437	16.17	16.4	1.054	0.370	0.390	0.39	33#
	802.11b	2462	16.29	16.4	1.026	0.222	0.228	0.23	34#
Close to Body Bottom (10mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	16.17	16.4	1.054	0.303	0.319	0.32	35#
	802.11b	2462	/	/	/	/	/	/	/

The data above were tested on 2021/04/03.

WLAN0 2.4G Chain 1:

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Handheld Back (0mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	15.67	15.8	1.03	0.108	0.111	0.11	36#
	802.11b	2462	/	/	/	/	/	/	/
Handheld Front (0mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	15.67	15.8	1.03	0.124	0.128	0.13	37#
	802.11b	2462	/	/	/	/	/	/	/
Handheld Right (0mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	15.67	15.8	1.03	0.025	0.026	0.03	38#
	802.11b	2462	/	/	/	/	/	/	/
Handheld Bottom (0mm)	802.11b	2412	15.52	15.8	1.067	0.132	0.141	0.14	39#
	802.11b	2437	15.67	15.8	1.03	0.185	0.191	0.19	40#
	802.11b	2462	15.76	15.8	1.009	0.104	0.105	0.11	41#

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Close to Body Back (10mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	15.67	15.8	1.03	0.118	0.122	0.12	42#
	802.11b	2462	/	/	/	/	/	/	/
Close to Body Front (10mm)	802.11b	2412	15.52	15.8	1.067	0.106	0.113	0.11	43#
	802.11b	2437	15.67	15.8	1.03	0.182	0.187	0.19	44#
	802.11b	2462	15.76	15.8	1.009	0.108	0.109	0.11	45#
Close to Body Right (10mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	15.67	15.8	1.03	0.018	0.019	0.02	46#
	802.11b	2462	/	/	/	/	/	/	/
Close to Body Bottom (10mm)	802.11b	2412	/	/	/	/	/	/	/
	802.11b	2437	15.67	15.8	1.03	0.030	0.031	0.03	47#
	802.11b	2462	/	/	/	/	/	/	/

The data above were tested on 2021/04/03.

WLAN0 5.2G Chain 0:

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Handheld Back (0mm)	802.11a	5180	/	/	/	/	/	/	/
	802.11a	5200	10.95	11.1	1.035	0.242	0.250	0.25	48#
	802.11a	5240	/	/	/	/	/	/	/
Handheld Front (0mm)	802.11a	5180	10.86	11.1	1.057	0.634	0.670	0.67	49#
	802.11a	5200	10.95	11.1	1.035	0.444	0.460	0.46	50#
	802.11a	5240	11.04	11.1	1.014	0.430	0.436	0.44	51#
Handheld Bottom (0mm)	802.11a	5180	/	/	/	/	/	/	/
	802.11a	5200	10.95	11.1	1.035	0.113	0.117	0.12	52#
	802.11a	5240	/	/	/	/	/	/	/

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Close to Body Back (10mm)	802.11a	5180	/	/	/	/	/	/	/
	802.11a	5200	10.95	11.1	1.035	0.162	0.168	0.17	53#
	802.11a	5240	/	/	/	/	/	/	/
Close to Body Front (10mm)	802.11a	5180	10.86	11.1	1.057	0.361	0.382	0.38	54#
	802.11a	5200	10.95	11.1	1.035	0.296	0.306	0.31	55#
	802.11a	5240	11.04	11.1	1.014	0.299	0.303	0.30	56#
Close to Body Bottom (10mm)	802.11a	5180	/	/	/	/	/	/	/
	802.11a	5200	10.95	11.1	1.035	0.083	0.086	0.09	57#
	802.11a	5240	/	/	/	/	/	/	/

The data above were tested on 2021/04/01.

WLAN0 5.2G Chain 1:

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Handheld Back (0mm)	802.11a	5180	/	/	/	/	/	/	/
	802.11a	5200	10.87	11	1.03	0.153	0.158	0.16	58#
	802.11a	5240	/	/	/	/	/	/	/
Handheld Front (0mm)	802.11a	5180	10.73	11	1.064	0.320	0.340	0.34	59#
	802.11a	5200	10.87	11	1.03	0.268	0.276	0.28	60#
	802.11a	5240	10.98	11	1.005	0.298	0.299	0.30	61#
Handheld Right (0mm)	802.11a	5180	/	/	/	/	/	/	/
	802.11a	5200	10.87	11	1.03	0.066	0.068	0.07	62#
	802.11a	5240	/	/	/	/	/	/	/

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Close to Body Back (10mm)	802.11a	5180	/	/	/	/	/	/	/
	802.11a	5200	10.87	11	1.03	0.166	0.171	0.17	63#
	802.11a	5240	/	/	/	/	/	/	/
Close to Body Front (10mm)	802.11a	5180	10.73	11	1.064	0.208	0.221	0.22	64#
	802.11a	5200	10.87	11	1.03	0.235	0.242	0.24	65#
	802.11a	5240	10.98	11	1.005	0.212	0.213	0.21	66#
Close to Body Right (10mm)	802.11a	5180	/	/	/	/	/	/	/
	802.11a	5200	10.87	11	1.03	0.203	0.209	0.21	67#
	802.11a	5240	/	/	/	/	/	/	/

WLAN0 5.8G Chain 0:

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Handheld Back (0mm)	802.11a	5745	/	/	/	/	/	/	/
	802.11a	5785	10.79	10.9	1.026	0.285	0.292	0.29	68#
	802.11a	5825	/	/	/	/	/	/	/
Handheld Front (0mm)	802.11a	5745	10.67	10.9	1.054	0.676	0.713	0.71	69#
	802.11a	5785	10.79	10.9	1.026	0.566	0.581	0.58	70#
	802.11a	5825	10.87	10.9	1.007	0.788	0.794	0.79	71#
Handheld Bottom (0mm)	802.11a	5745	/	/	/	/	/	/	/
	802.11a	5785	10.79	10.9	1.026	0.055	0.056	0.06	72#
	802.11a	5825	/	/	/	/	/	/	/

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Close to Body Back (10mm)	802.11a	5745	/	/	/	/	/	/	/
	802.11a	5785	10.79	10.9	1.026	0.203	0.208	0.21	73#
	802.11a	5825	/	/	/	/	/	/	/
Close to Body Front (10mm)	802.11a	5745	10.67	10.9	1.054	0.512	0.540	0.54	74#
	802.11a	5785	10.79	10.9	1.026	0.412	0.423	0.42	75#
	802.11a	5825	10.87	10.9	1.007	0.505	0.509	0.51	76#
Close to Body Bottom (10mm)	802.11a	5745	/	/	/	/	/	/	/
	802.11a	5785	10.79	10.9	1.026	0.062	0.064	0.06	77#
	802.11a	5825	/	/	/	/	/	/	/

The data above were tested on 2021/04/02.

WLAN0 5.8G Chain 1:

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Handheld Back (0mm)	802.11a	5745	/	/	/	/	/	/	/
	802.11a	5785	10.38	10.5	1.028	0.152	0.156	0.16	78#
	802.11a	5825	/	/	/	/	/	/	/
Handheld Front (0mm)	802.11a	5745	10.27	10.5	1.054	0.782	0.824	0.82	79#
	802.11a	5785	10.38	10.5	1.028	0.487	0.501	0.50	80#
	802.11a	5825	10.42	10.5	1.019	0.771	0.786	0.79	81#
Handheld Right (0mm)	802.11a	5745	/	/	/	/	/	/	/
	802.11a	5785	10.38	10.5	1.028	0.109	0.112	0.11	82#
	802.11a	5825	/	/	/	/	/	/	/

EUT Position	Bandwidth (MHz)	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
					Scaled Factor	Meas. SAR	Scaled SAR	Corrected SAR	Plot
Close to Body Back (10mm)	802.11a	5745	/	/	/	/	/	/	/
	802.11a	5785	10.38	10.5	1.028	0.385	0.396	0.40	83#
	802.11a	5825	/	/	/	/	/	/	/
Close to Body Front (10mm)	802.11a	5745	10.27	10.5	1.054	0.496	0.523	0.52	84#
	802.11a	5785	10.38	10.5	1.028	0.484	0.498	0.50	85#
	802.11a	5825	10.42	10.5	1.019	0.487	0.496	0.50	86#
Close to Body Right (10mm)	802.11a	5745	/	/	/	/	/	/	/
	802.11a	5785	10.38	10.5	1.028	0.105	0.108	0.11	87#
	802.11a	5825	/	/	/	/	/	/	/

The data above were tested on 2021/04/02.

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
3. According to IEC 62209-2:2010 ,If the correction Δ SAR has a positive sign, the measured SAR results shall not be corrected.

Corrected SAR Evaluation

62209-2 © IEC:2010

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Annex F
(normative)**SAR correction for deviations of complex permittivity from targets****F.2 SAR correction formula**

From [13] and [14], a linear relationship was found between the percent change in SAR (denoted ΔSAR) and the percent change in the permittivity and conductivity from the target values in Table 1 (denoted $\Delta \epsilon_r$ and $\Delta \sigma$, respectively). This linear relationship agrees with the results of Kuster and Balzano [48] and Bit-Babik et al. [2]. The relationship is given by:

$$\Delta SAR = c_\epsilon \Delta \epsilon_r + c_\sigma \Delta \sigma \quad (F.1)$$

where

$c_\epsilon = \partial(\Delta SAR)/\partial(\Delta \epsilon_r)$ is the coefficients representing the sensitivity of SAR to permittivity where SAR is normalized to output power;

$c_\sigma = \partial(\Delta SAR)/\partial(\Delta \sigma)$ is the coefficients representing the sensitivity of SAR to conductivity, where SAR is normalized to output power.

The values of c_ϵ and c_σ have a simple relationship with frequency that can be described using polynomial equations. For the 1 g averaged SAR c_ϵ and c_σ are given by

$$c_\epsilon = -7,854 \times 10^{-4} f^3 + 9,402 \times 10^{-3} f^2 - 2,742 \times 10^{-2} f - 0,202 \ 6 \quad (F.2)$$

$$c_\sigma = 9,804 \times 10^{-3} f^3 - 8,661 \times 10^{-2} f^2 + 2,981 \times 10^{-2} f + 0,782 \ 9 \quad (F.3)$$

where

f is the frequency in GHz.

For the 10 g averaged SAR, the variables c_ϵ and c_σ are given by:

$$c_\epsilon = 3,456 \times 10^{-3} f^3 - 3,531 \times 10^{-2} f^2 + 7,675 \times 10^{-2} f - 0,186 \ 0 \quad (F.4)$$

$$c_\sigma = 4,479 \times 10^{-3} f^3 - 1,586 \times 10^{-2} f^2 - 0,197 \ 2 f + 0,771 \ 7 \quad (F.5)$$

Corrected SAR Evaluation Table

Frequency (MHz)	Liquid Type	C ϵ	$\Delta \epsilon_r$	C δ	$\Delta \delta$	Δ SAR (%)
2403.5	1g Body	-0.225	0.39	0.490	-1.76	-0.95
2407.5	1g Body	-0.225	0.16	0.489	-1.31	-0.68
2412	1g Body	-0.225	-0.18	0.489	-0.23	-0.07
2437	1g Body	-0.225	-0.34	0.483	0.45	0.29
2439.5	1g Body	-0.225	-0.72	0.483	0.61	0.46
2450	1g Body	-0.225	-1.06	0.480	1.22	0.82
2462	1g Body	-0.225	-1.63	0.478	1.93	1.29
2471.5	1g Body	-0.225	-2.17	0.476	2.14	1.51
2473.5	1g Body	-0.225	-2.21	0.475	1.91	1.40
2403.5	10g Body	-0.158	0.39	0.268	-1.76	-0.53
2407.5	10g Body	-0.158	0.16	0.268	-1.31	-0.38
2412	10g Body	-0.158	-0.18	0.267	-0.23	-0.03
2437	10g Body	-0.159	-0.34	0.262	0.45	0.17
2439.5	10g Body	-0.159	-0.72	0.261	0.61	0.27
2450	10g Body	-0.159	-1.06	0.259	1.22	0.48
2462	10g Body	-0.159	-1.63	0.257	1.93	0.76
2471.5	10g Body	-0.160	-2.17	0.255	2.14	0.89
2473.5	10g Body	-0.160	-2.21	0.255	1.91	0.84

Performed on 2021-04-01:

Frequency (MHz)	Liquid Type	C ϵ	$\Delta \epsilon_r$	C δ	$\Delta \delta$	Δ SAR (%)
5180	1g Body	-0.202	0.54	-0.024	-2.91	-0.04
5200	1g Body	-0.201	-0.05	-0.026	-1.65	0.05
5240	1g Body	-0.201	-0.55	-0.028	0.43	0.10
5250	1g Body	-0.201	-0.76	-0.029	1.78	0.10
5180	10g Body	-0.256	0.54	-0.053	-2.91	0.02
5200	10g Body	-0.256	-0.05	-0.053	-1.65	0.10
5240	10g Body	-0.256	-0.55	-0.053	0.43	0.12
5250	10g Body	-0.256	-0.76	-0.053	1.78	0.10

Performed on 2021-04-02:

Frequency (MHz)	Liquid Type	C ϵ	$\Delta \epsilon_r$	C δ	$\Delta \delta$	Δ SAR (%)
5729.5	1g Body	-0.199	0.86	-0.045	0.6	-0.20
5741.5	1g Body	-0.199	0.65	-0.045	1.86	-0.21
5745	1g Body	-0.199	0.59	-0.045	2.18	-0.22
5752.5	1g Body	-0.199	0.43	-0.045	3.39	-0.24
5785	1g Body	-0.199	0.23	-0.045	2.97	-0.18
5800	1g Body	-0.199	-0.01	-0.045	3.72	-0.16
5825	1g Body	-0.199	-0.59	-0.044	3.83	-0.05
5729.5	10g Body	-0.255	0.86	-0.036	0.6	-0.24
5741.5	10g Body	-0.255	0.65	-0.036	1.86	-0.23
5745	10g Body	-0.255	0.59	-0.035	2.18	-0.23
5752.5	10g Body	-0.255	0.43	-0.035	3.39	-0.23
5785	10g Body	-0.255	0.23	-0.033	2.97	-0.16
5800	10g Body	-0.254	-0.01	-0.032	3.72	-0.12
5825	10g Body	-0.254	-0.59	-0.030	3.83	0.04

Performed on 2021-05-08:

Frequency (MHz)	Liquid Type	C ϵ	$\Delta \epsilon_r$	C δ	$\Delta \delta$	Δ SAR (%)
2412	1g Body	-0.225	-0.17	0.489	-1.53	-0.71
2435	1g Body	-0.225	-0.44	0.484	-1.17	-0.47
2440	1g Body	-0.225	-0.64	0.482	0.17	0.23
2450	1g Body	-0.225	-0.76	0.480	0.28	0.31
2460	1g Body	-0.225	-0.91	0.478	0.39	0.39
2412	10g Body	-0.158	-0.17	0.267	-1.53	-0.38
2435	10g Body	-0.159	-0.44	0.262	-1.17	-0.24
2440	10g Body	-0.159	-0.64	0.261	0.17	0.15
2450	10g Body	-0.159	-0.76	0.259	0.28	0.19
2460	10g Body	-0.159	-0.91	0.257	0.39	0.25

Performed on 2021-05-08:

Frequency (MHz)	Liquid Type	C ϵ	$\Delta \epsilon_r$	C δ	$\Delta \delta$	Δ SAR (%)
5740	1g Body	-0.199	0.02	-0.045	-3.69	0.16
5765	1g Body	-0.199	-0.5	-0.045	-0.27	0.11
5779	1g Body	-0.199	-0.83	-0.045	1.89	0.08
5800	1g Body	-0.199	-1.07	-0.045	3.21	0.07
5820	1g Body	-0.199	-1.58	-0.045	3.99	0.14
5740	10g Body	-0.255	0.02	-0.036	-3.69	0.13
5765	10g Body	-0.255	-0.5	-0.034	-0.27	0.14
5779	10g Body	-0.255	-0.83	-0.033	1.89	0.15
5800	10g Body	-0.254	-1.07	-0.032	3.21	0.17
5820	10g Body	-0.254	-1.58	-0.030	3.99	0.28

$$\Delta \text{SAR} = c_{\epsilon} \Delta \epsilon_r + c_{\sigma} \Delta \sigma$$

where

f is the frequency in GHz.

$$\text{Corrected SAR} = \text{Measured SAR} * ((100 + (\Delta \text{SAR} \times -1)) / 100)$$

SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 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 ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Note: The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The Highest Measured SAR Configuration in Each Frequency Band

Handheld SAR

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
/	/	/	/	/	/	/

Body SAR

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
2450MHz (2400~2550MHz)	SRD 2.4G	2435	Close to Body Top	1.21	1.18	1.03
5800MHz (5700~5910MHz)	SRD 5.8G	5779	Close to Body Top	1.31	1.26	1.04

Note:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 .
2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
3. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements..

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities	
Transmitter Combination	Simultaneous?
Wi-Fi0 2.4G Chain 0+ Wi-Fi0 2.4G Chain 1	√
Wi-Fi0 5.2G Chain 0+ Wi-Fi0 5.2G Chain 1	√
Wi-Fi0 5.8G Chain 0+ Wi-Fi0 5.8G Chain 1	√
SRD 2.4G + SRD 5.8G	×
SRD 2.4G + Wi-Fi0 2.4G Chain 0+ Wi-Fi0 2.4G Chain 1	×
SRD 2.4G + Wi-Fi0 5.2G Chain 0+ Wi-Fi0 5.2G Chain 1	√
SRD 2.4G + Wi-Fi0 5.8G Chain 0+ Wi-Fi0 5.8G Chain 1	√
SRD 5.8G + Wi-Fi0 2.4G Chain 0+ Wi-Fi0 2.4G Chain 1	√

Simultaneous SAR test exclusion considerations:

Worst case:

10g Extremity SAR:

Mode(SAR1+SAR2+SAR3)	Position	Reported SAR(W/kg)			ΣSAR < 4.0 W/kg
		SAR1	SAR2	SAR3	
SRD 2.4G + Wi-Fi0 5.2G Chain 0+ Wi-Fi0 5.2G Chain 1	Handheld Back	0.22	0.25	0.16	0.63
	Handheld Back Fold	0.09	0.25	0.16	0.50
	Handheld Front	0.14	0.67	0.34	1.15
	Handheld Top	0.98	0.01	0.01	1.00
	Handheld Bottom	0.01	0.12	0.07	0.20
SRD 2.4G + Wi-Fi0 5.8G Chain 0+ Wi-Fi0 5.8G Chain 1	Handheld Back	0.22	0.29	0.16	0.67
	Handheld Back Fold	0.09	0.29	0.16	0.54
	Handheld Front	0.14	0.79	0.82	1.75
	Handheld Top	0.98	0.01	0.01	1.00
	Handheld Bottom	0.01	0.06	0.01	0.08
SRD 5.8G + Wi-Fi0 2.4G Chain 0+ Wi-Fi0 2.4G Chain 1	Handheld Back	0.30	0.06	0.11	0.47
	Handheld Back Fold	0.01	0.06	0.11	0.18
	Handheld Front	0.13	0.46	0.13	0.72
	Handheld Top	1.14	0.01	0.01	1.16
	Handheld Bottom	0.01	0.04	0.19	0.24

Note:

We pretested the exclusion side for the six antennas, the results were that the peak SAR was too low to evaluate, a SAR value 0.01W/kg is considered as their reported SAR, and 0.01W/kg SAR value was used for calculating simultaneous SAR considerations.

Conclusion:

Sum of SAR: $\Sigma \text{SAR} < 4.0 \text{ W/kg}$, simultaneous transmission SAR with Volume Scans is **not required**.

1g Body SAR:

Mode(SAR1+SAR2+SAR3)	Position	Reported SAR(W/kg)			$\Sigma \text{SAR} < 1.6 \text{ W/kg}$
		SAR1	SAR2	SAR3	
SRD 2.4G + Wi-Fi0 5.2G Chain 0+ Wi-Fi0 5.2G Chain 1	Close to Body Back	0.53	0.17	0.17	0.87
	Close to Body Back Fold	0.01	0.17	0.17	0.35
	Close to Body Front	0.12	0.38	0.24	0.74
	Close to Body Top	1.29	0.01	0.01	1.31
	Close to Body Bottom	0.01	0.09	0.01	0.11
SRD 2.4G + Wi-Fi0 5.8G Chain 0+ Wi-Fi0 5.8G Chain 1	Close to Body Back	0.53	0.21	0.40	1.14
	Close to Body Back Fold	0.01	0.21	0.40	0.62
	Close to Body Front	0.12	0.54	0.52	1.18
	Close to Body Top	1.29	0.01	0.01	1.31
	Close to Body Bottom	0.01	0.06	0.01	0.08
SRD 5.8G + Wi-Fi0 2.4G Chain 0+ Wi-Fi0 2.4G Chain 1	Close to Body Back	0.51	0.16	0.12	0.79
	Close to Body Back Fold	0.01	0.16	0.12	0.29
	Close to Body Front	0.49	0.39	0.19	1.07
	Close to Body Top	1.36	0.01	0.01	1.38
	Close to Body Bottom	0.01	0.32	0.03	0.36

Note:

We pretested the exclusion side for the six antennas, the results were that the peak SAR was too low to evaluate, a SAR value 0.01W/kg is considered as their reported SAR, and 0.01W/kg SAR value was used for calculating simultaneous SAR considerations.

Conclusion:

Sum of SAR: $\Sigma \text{SAR} < 1.6 \text{ W/kg}$, simultaneous transmission SAR with Volume Scans is **not required**.

SAR Plots

Test Plot 1#:2.4G SRD_Mid_20M_Handheld Back

DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1

Communication System: 2.4G SRD; Frequency: 2435 MHz; Duty Cycle: 1:1.33

Medium parameters used: $f = 2435$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 39.057$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2435 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.397 W/kg

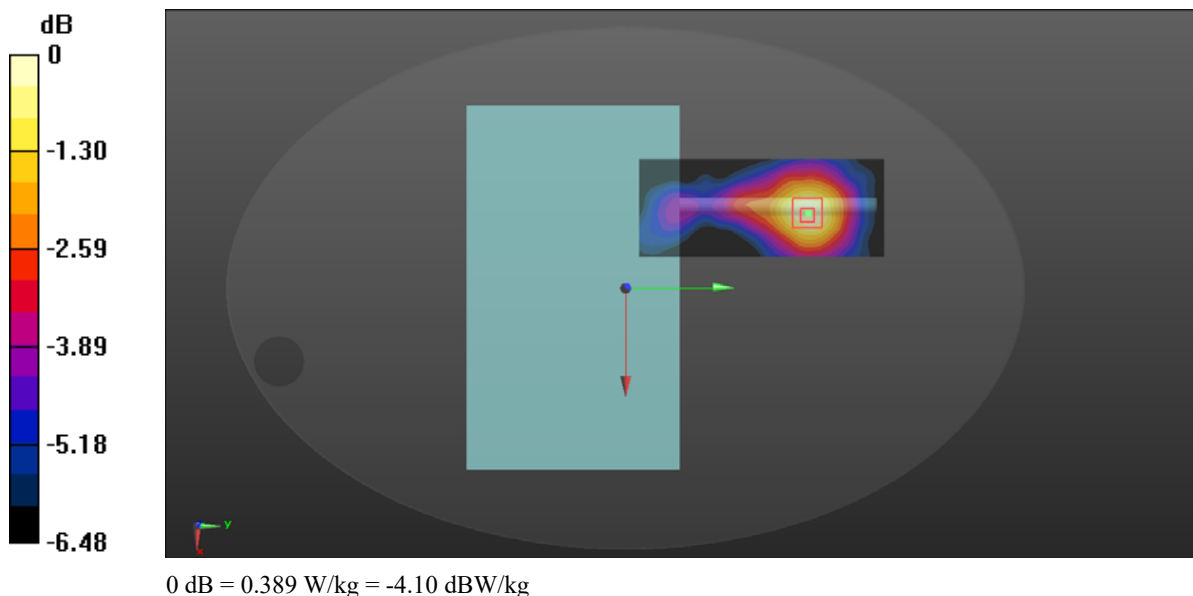
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.459 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.207 W/kg

Maximum value of SAR (measured) = 0.389 W/kg



Test Plot 2#: 2.4G SRD_Mid_20M_Handheld Back Fold**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD; Frequency: 2435 MHz; Duty Cycle: 1:1.33

Medium parameters used: $f = 2435$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 39.057$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2435 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (91x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.113 W/kg

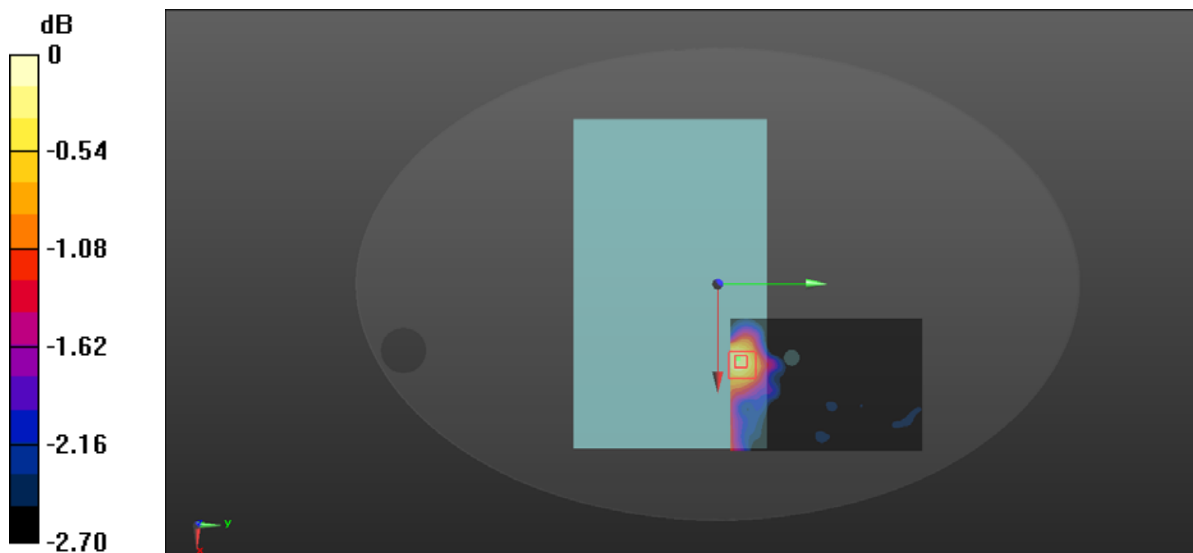
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.888 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.117 W/kg



0 dB = 0.117 W/kg = -9.32 dBW/kg

Test Plot 3#:2.4G SRD_Mid_20M_Handheld Front**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD ; Frequency: 2435 MHz;Duty Cycle: 1:1.33

Medium parameters used: $f = 2435$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 39.057$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2435 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.201 W/kg

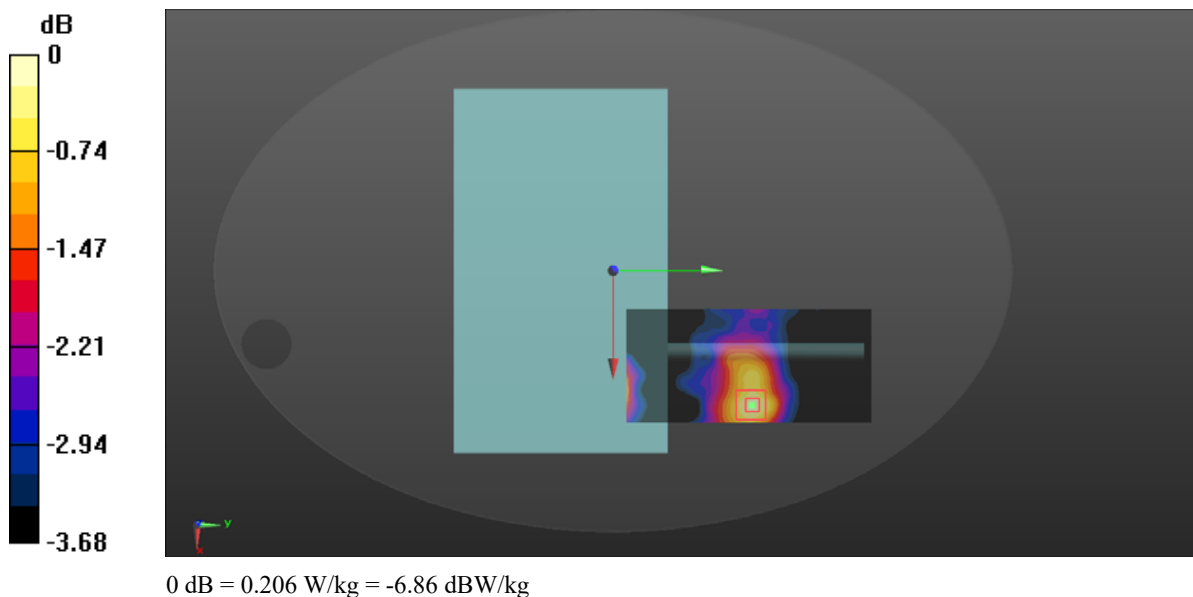
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.420 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.206 W/kg



Test Plot 4#:2.4G SRD_Low_20M_ Handheld Body Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD ; Frequency: 2412 MHz;Duty Cycle: 1:1.33

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.743$ S/m; $\epsilon_r = 39.212$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2412 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.73 W/kg

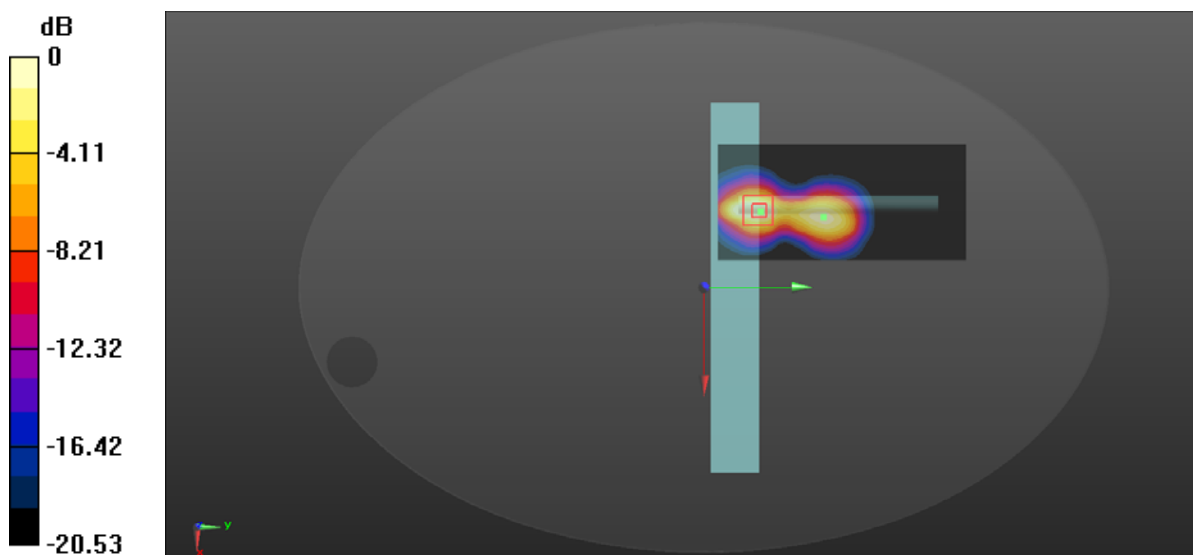
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.525 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 4.36 W/kg

SAR(1 g) = 1.93 W/kg; SAR(10 g) = 0.874 W/kg

Maximum value of SAR (measured) = 3.37 W/kg



0 dB = 3.37 W/kg = 5.28 dBW/kg

Test Plot 5#:2.4G SRD_Mid_20M_Handheld Body Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD ; Frequency: 2435 MHz;Duty Cycle: 1:1.33

Medium parameters used: $f = 2435$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 39.057$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2435 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.60 W/kg

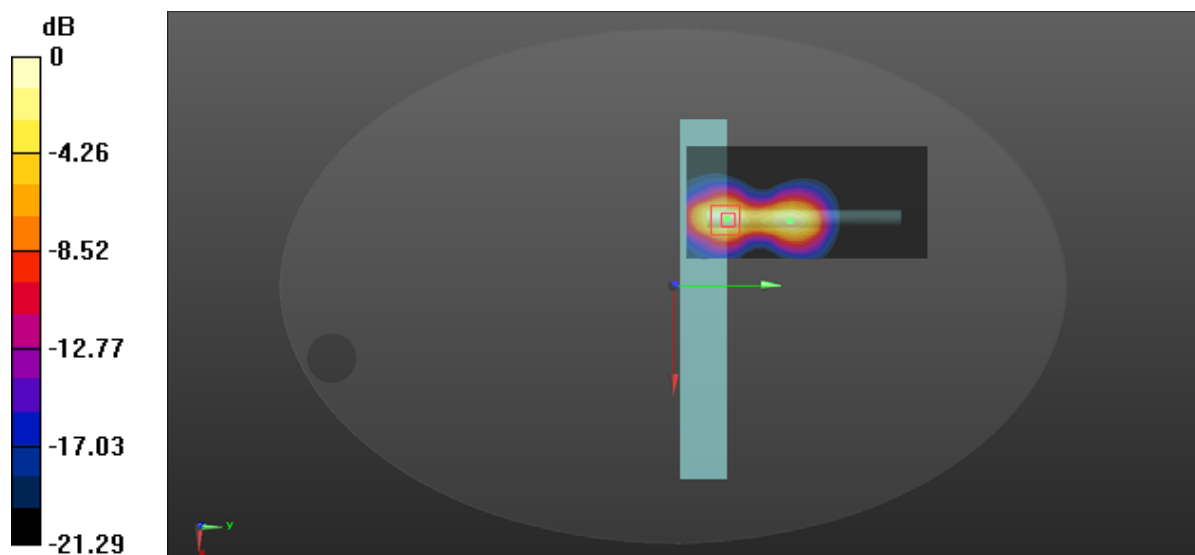
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.927 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 4.32 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 0.857 W/kg

Maximum value of SAR (measured) = 3.42 W/kg



0 dB = 3.42 W/kg = 5.34 dBW/kg

Test Plot 6#:2.4G SRD_High_20M_Handheld Body Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD ; Frequency: 2460 MHz;Duty Cycle: 1:1.33

Medium parameters used: $f = 2460$ MHz; $\sigma = 1.817$ S/m; $\epsilon_r = 38.833$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2460 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.27 W/kg

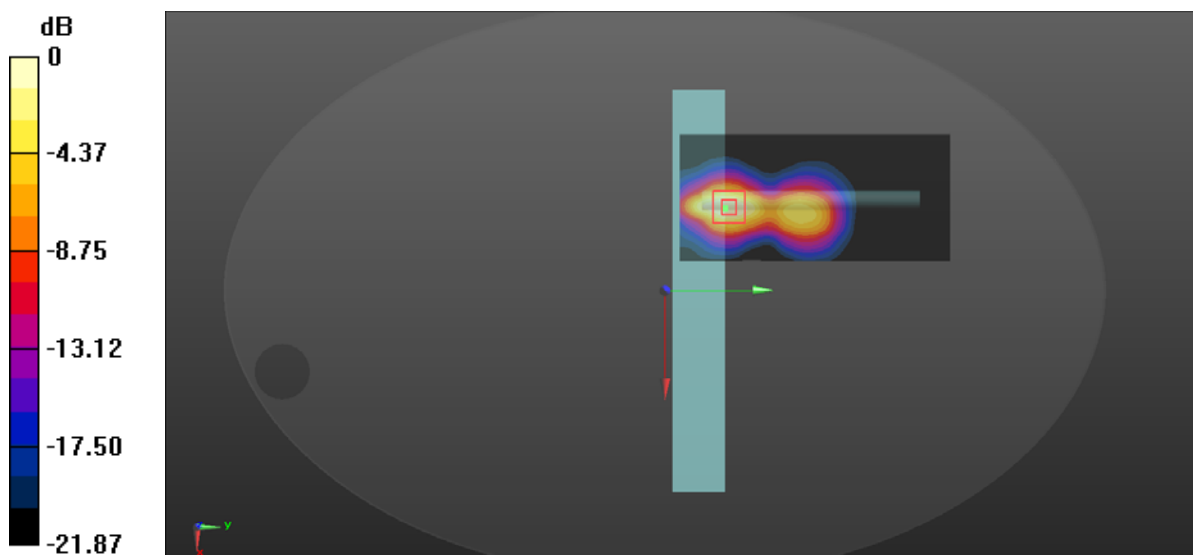
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.053 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 5.03 W/kg

SAR(1 g) = 2.22 W/kg; SAR(10 g) = 0.982 W/kg

Maximum value of SAR (measured) = 3.84 W/kg



Test Plot 7#: 2.4G SRD_Mid_1.25M_Handheld Body Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD; Frequency: 2440 MHz; Duty Cycle: 1:5.75

Medium parameters used: $f = 2440$ MHz; $\sigma = 1.793$ S/m; $\epsilon_r = 38.968$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2440 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.783 W/kg

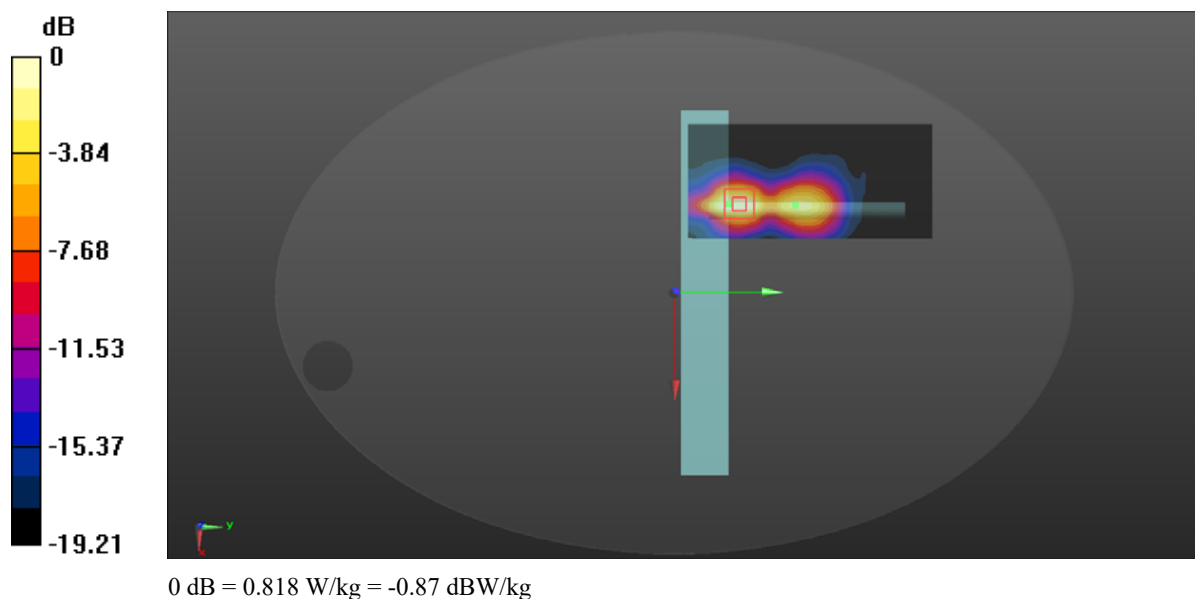
Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.902 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.218 W/kg

Maximum value of SAR (measured) = 0.818 W/kg



Test Plot 8#:2.4G SRD_Mid_20M_Close to Body Back**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD ; Frequency: 2435 MHz;Duty Cycle: 1:1.33

Medium parameters used: $f = 2435$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 39.057$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2435 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.695 W/kg

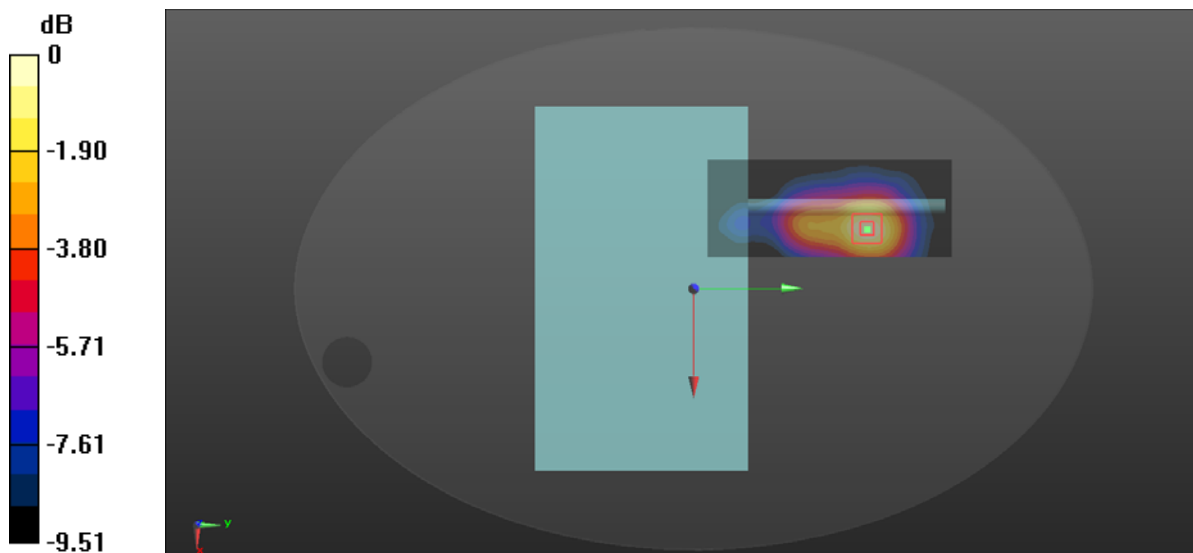
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.904 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.806 W/kg

SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.306 W/kg

Maximum value of SAR (measured) = 0.704 W/kg



0 dB = 0.704 W/kg = -1.52 dBW/kg

Test Plot 9#:2.4G SRD_Mid_20M_ Close to Body Front**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD ; Frequency: 2435 MHz; Duty Cycle: 1:1.33

Medium parameters used: $f = 2435$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 39.057$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2435 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.127 W/kg

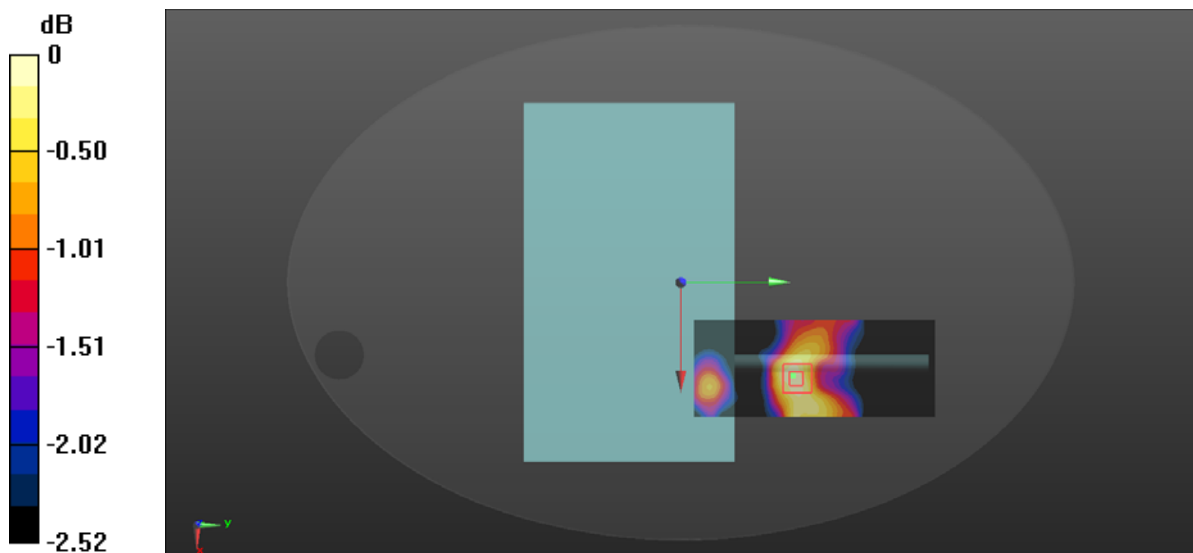
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.985 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.127 W/kg = -8.96 dBW/kg

Test Plot 10#:2.4G SRD_Low_20M_ Close to Body TOP**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD ; Frequency: 2412 MHz;Duty Cycle: 1:1.33

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.743$ S/m; $\epsilon_r = 39.212$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2412 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.66 W/kg

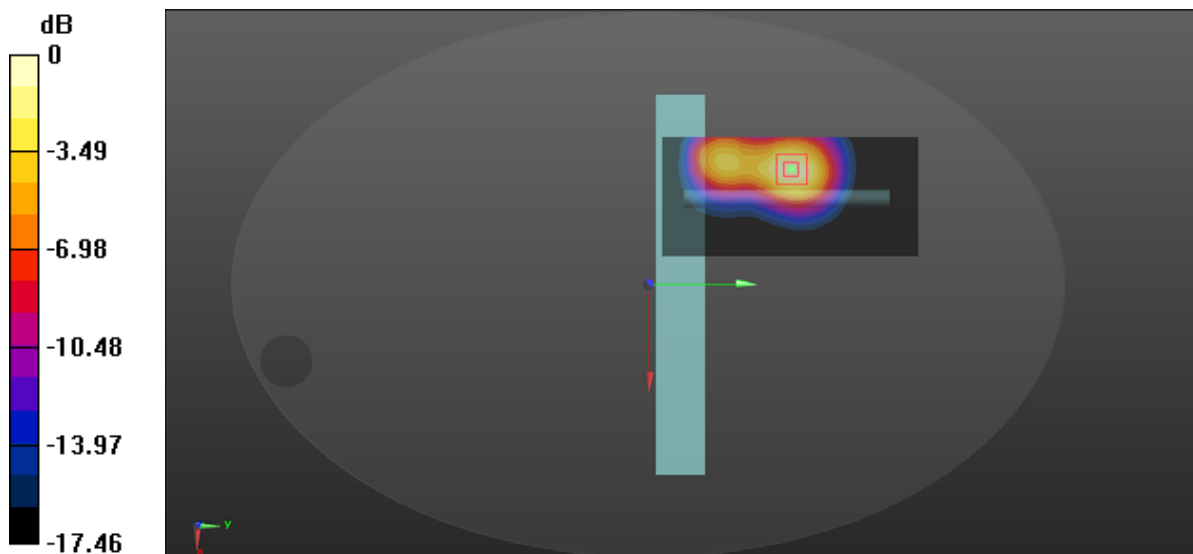
Zoom Scan (5x5x4)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.416 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.551 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

Test Plot 11#:2.4G SRD_Mid_20M_ Close to Body TOP**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD ; Frequency: 2435 MHz;Duty Cycle: 1:1.33

Medium parameters used: $f = 2435$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 39.057$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2435 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.94 W/kg

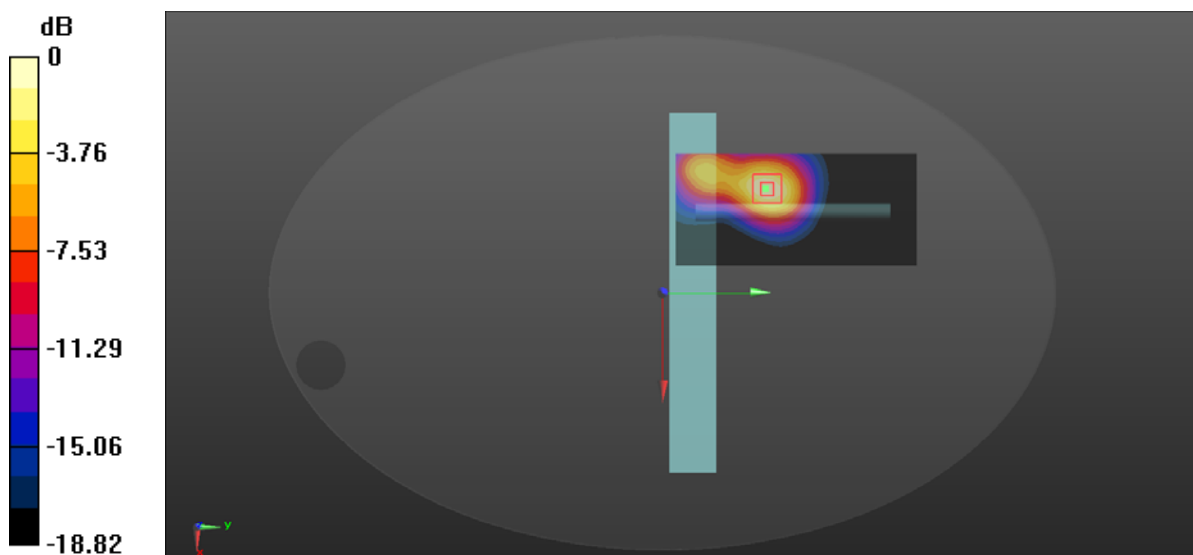
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.545 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.614 W/kg

Maximum value of SAR (measured) = 1.91 W/kg



0 dB = 1.91 W/kg = 2.81 dBW/kg

Test Plot 12#:2.4G SRD_High_20M_ Close to Body TOP**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD; Frequency: 2460 MHz; Duty Cycle: 1:1.33

Medium parameters used: $f = 2460$ MHz; $\sigma = 1.817$ S/m; $\epsilon_r = 38.833$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2460 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.847 W/kg

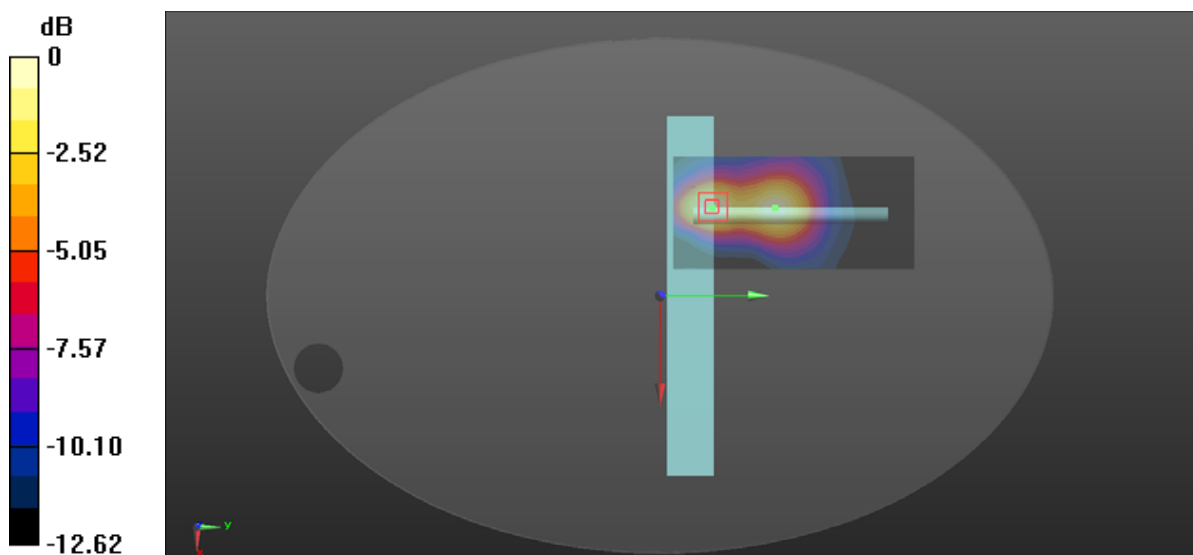
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.671 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.919 W/kg

SAR(1 g) = 0.504 W/kg; SAR(10 g) = 0.278 W/kg

Maximum value of SAR (measured) = 0.769 W/kg



Test Plot 13#:2.4G SRD_Mid_1.25M_ Close to Body Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 2.4G SRD; Frequency: 2440 MHz; Duty Cycle: 1:5.75

Medium parameters used: $f = 2440$ MHz; $\sigma = 1.793$ S/m; $\epsilon_r = 38.968$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2440 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (71x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.636 W/kg

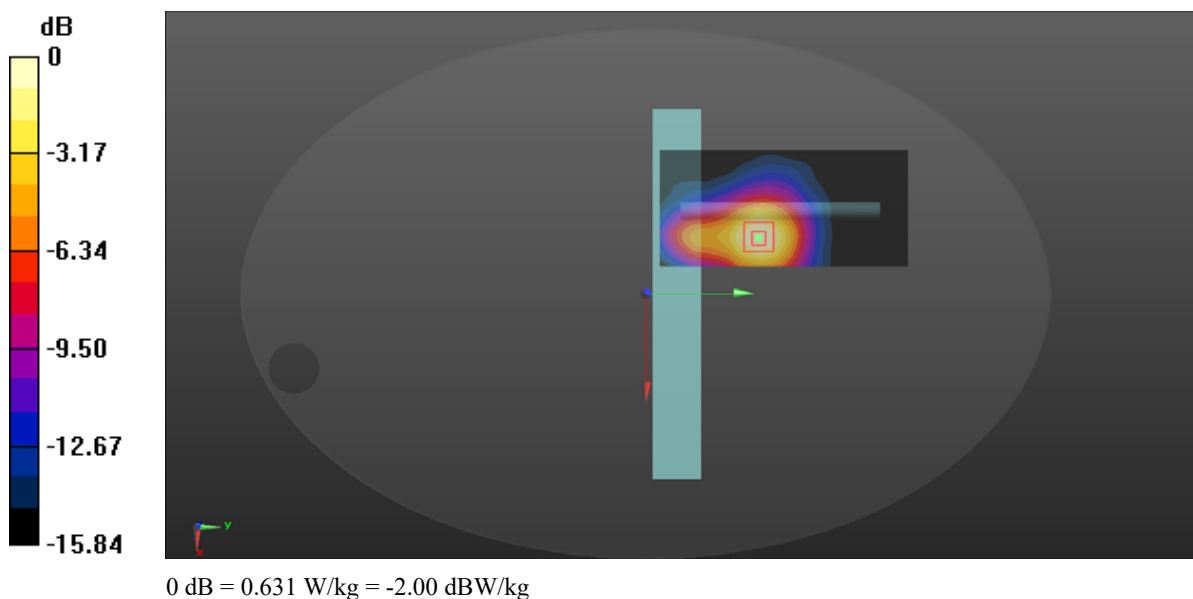
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.632 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.739 W/kg

SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.237 W/kg

Maximum value of SAR (measured) = 0.631 W/kg



Test Plot 14#:5.8G SRD_Mid_20M_ Handheld Back**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD ; Frequency: 5779 MHz;Duty Cycle: 1:1.31

Medium parameters used: $f = 5779$ MHz; $\sigma = 5.349$ S/m; $\epsilon_r = 35.026$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5779 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.838 W/kg

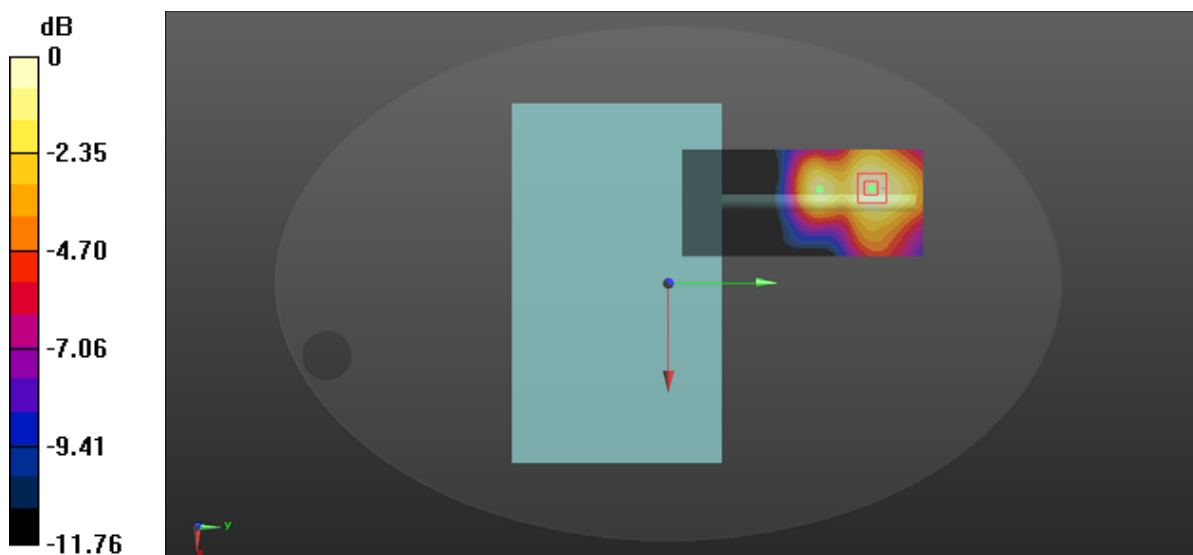
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.077 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.955 W/kg

SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 0.831 W/kg



0 dB = 0.831 W/kg = -0.80 dBW/kg

Test Plot 15#:5.8G SRD_Mid_20M_ Handheld Front**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD ; Frequency: 5779 MHz;Duty Cycle: 1:1.31

Medium parameters used: $f = 5779$ MHz; $\sigma = 5.349$ S/m; $\epsilon_r = 35.026$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5779 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.411 W/kg

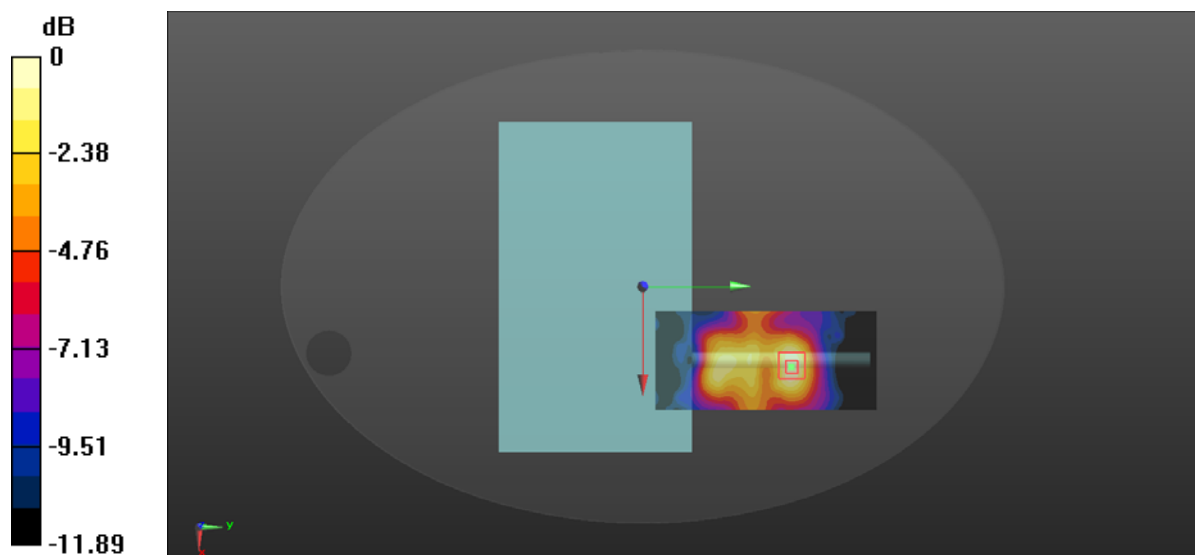
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.526 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.488 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.124 W/kg

Maximum value of SAR (measured) = 0.397 W/kg



0 dB = 0.397 W/kg = -4.01 dBW/kg

Test Plot 16#:5.8G SRD_Low_20M_ Handheld Top**DUT: Autel Elite Controller; Type: EF9-1; Serial: SZ1210507-15794E-SA-S**

Communication System: 5.8G SRD ; Frequency: 5740 MHz;Duty Cycle: 1:1.31

Medium parameters used: $f = 5740$ MHz; $\sigma = 5.018$ S/m; $\epsilon_r = 35.368$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5740 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.92 W/kg

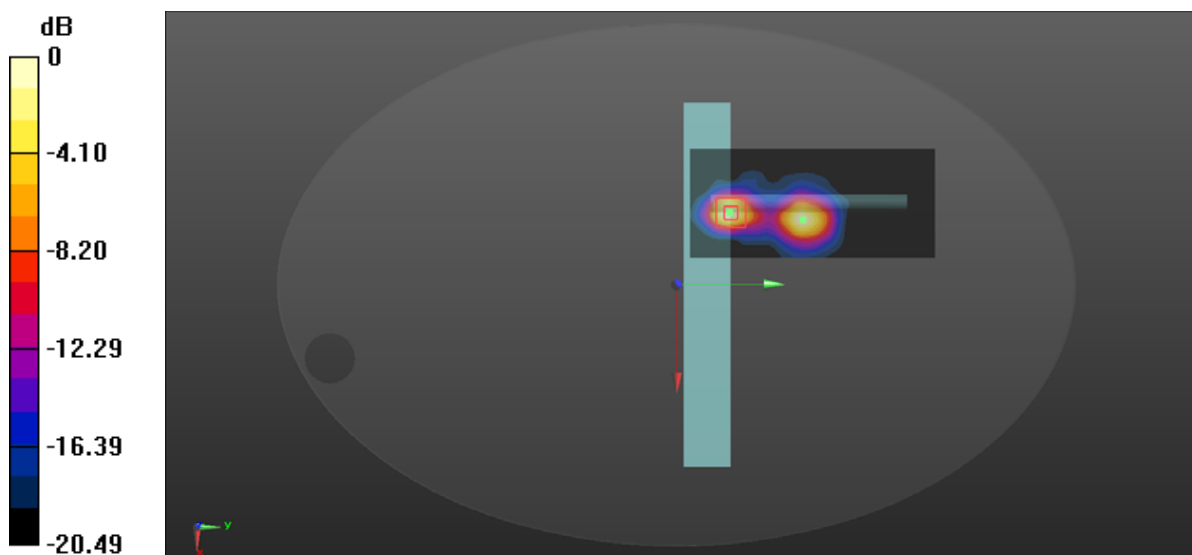
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.383 V/m; Power Drift = -0.08dB

Peak SAR (extrapolated) = 8.74 W/kg

SAR(1 g) = 2.93 W/kg; SAR(10 g) = 0.909 W/kg

Maximum value of SAR (measured) = 6.28 W/kg



0 dB = 6.28 W/kg = 7.98 dBW/kg

Test Plot 17#:5.8G SRD_Mid_20M_ Handheld Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD; Frequency: 5779 MHz; Duty Cycle: 1:1.31

Medium parameters used: $f = 5779$ MHz; $\sigma = 5.349$ S/m; $\epsilon_r = 35.026$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5779 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 3.01 W/kg

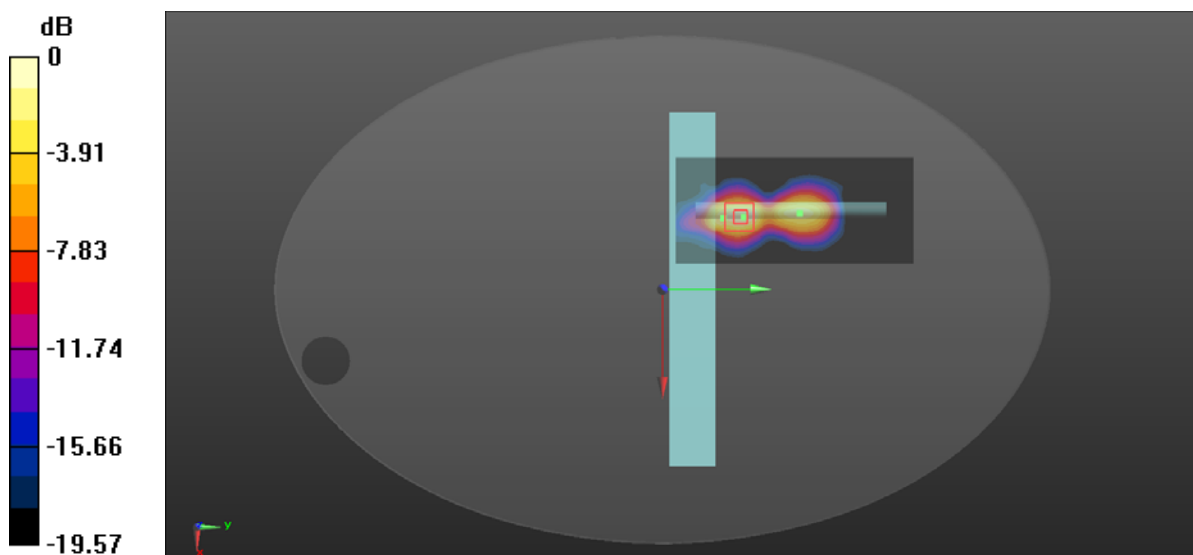
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.907 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.92 W/kg

SAR(1 g) = 1.97 W/kg; SAR(10 g) = 0.913 W/kg

Maximum value of SAR (measured) = 3.28 W/kg



0 dB = 3.28 W/kg = 5.16 dBW/kg

Test Plot 18#:5.8G SRD_High_20M_ Handheld Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD; Frequency: 5820 MHz; Duty Cycle: 1:1.31

Medium parameters used: $f = 5820$ MHz; $\sigma = 5.501$ S/m; $\epsilon_r = 34.723$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5820 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 7.43 W/kg

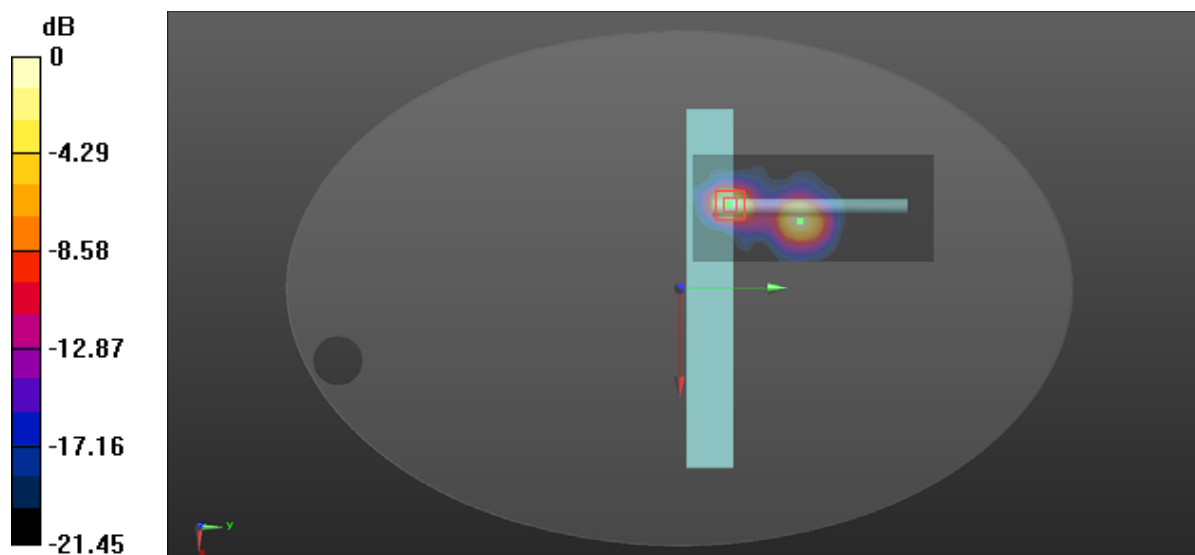
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.554 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 9.46 W/kg

SAR(1 g) = 3.35 W/kg; SAR(10 g) = 1.07 W/kg

Maximum value of SAR (measured) = 7.14 W/kg



0 dB = 7.14 W/kg = 8.54 dBW/kg

Test Plot 19#:5.8G SRD_Mid_ 1.25M_ Handheld Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD ; Frequency: 5765 MHz;Duty Cycle: 1:5.95

Medium parameters used: $f = 5765$ MHz; $\sigma = 5.226$ S/m; $\epsilon_r = 35.162$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5765 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.06 W/kg

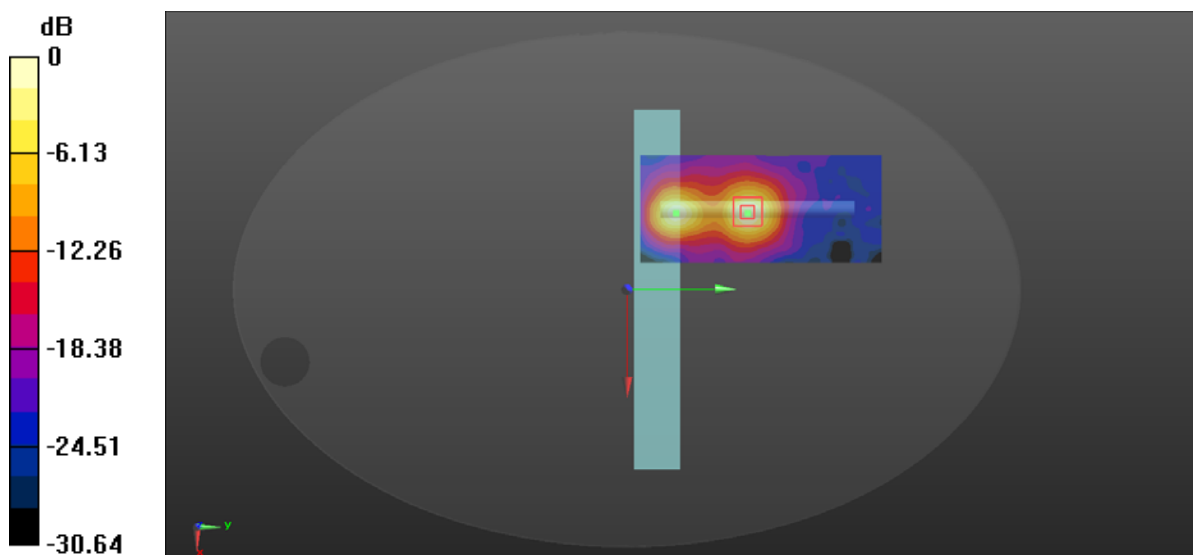
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0.4430 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 4.29 W/kg

SAR(1 g) = 1.63 W/kg; SAR(10 g) = 0.580 W/kg

Maximum value of SAR (measured) = 3.26 W/kg



Test Plot 20#:5.8G SRD_Mid_20M_ Close to Body Back**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD; Frequency: 5779 MHz; Duty Cycle: 1:1.31

Medium parameters used: $f = 5779$ MHz; $\sigma = 5.349$ S/m; $\epsilon_r = 35.026$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5779 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm.

Maximum value of SAR (interpolated) = 0.840 W/kg

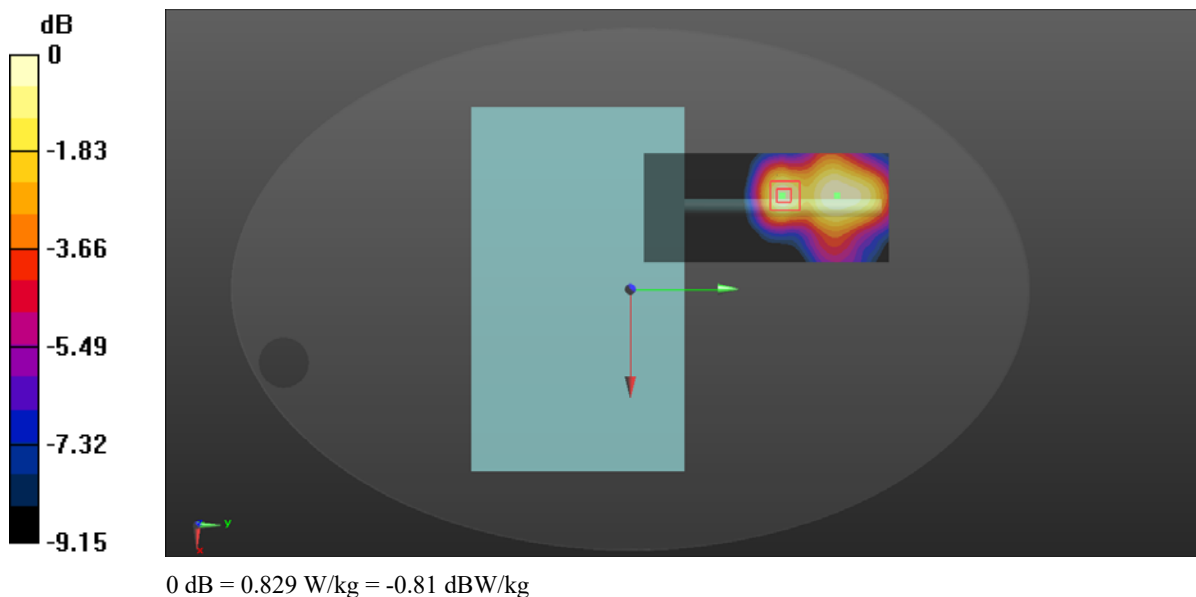
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.305 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.253 W/kg.

Maximum value of SAR (measured) = 0.829 W/kg



Test Plot 21#: 5.8G SRD_Mid_20M_ Close to Body Front**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD; Frequency: 5779 MHz; Duty Cycle: 1:1.31

Medium parameters used: $f = 5779$ MHz; $\sigma = 5.349$ S/m; $\epsilon_r = 35.026$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5779 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm.

Maximum value of SAR (interpolated) = 0.782 W/kg

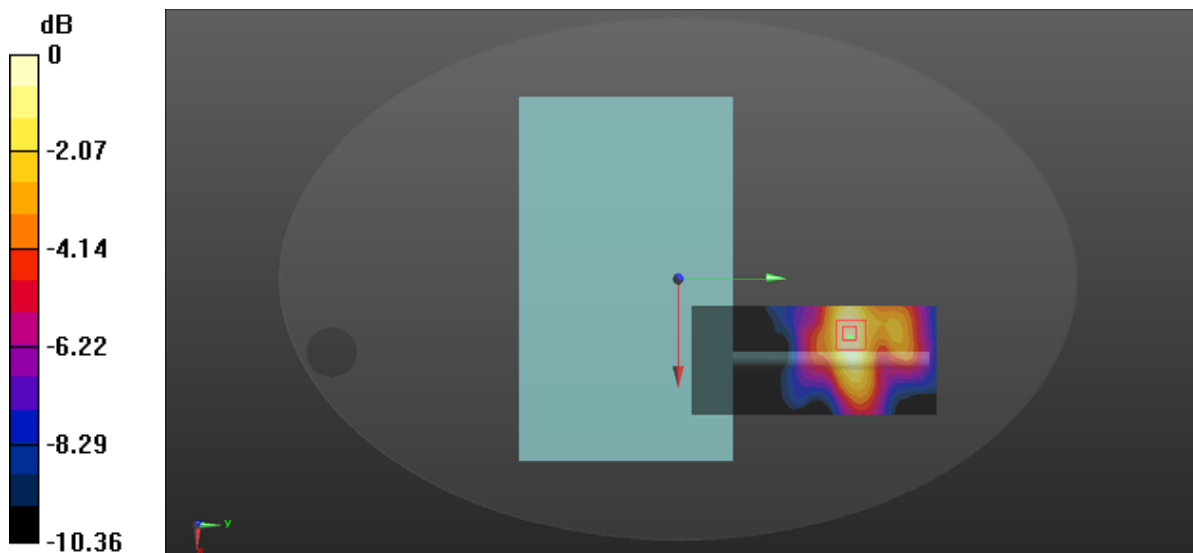
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0.2590 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.881 W/kg

SAR(1 g) = 0.477 W/kg; SAR(10 g) = 0.243 W/kg

Maximum value of SAR (measured) = 0.778 W/kg



Test Plot 22#:5.8G SRD_Low_ 20M_ Close To Body Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD; Frequency: 5740 MHz; Duty Cycle: 1:1.31

Medium parameters used: $f = 5740$ MHz; $\sigma = 5.018$ S/m; $\epsilon_r = 35.368$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5740 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.66 W/kg

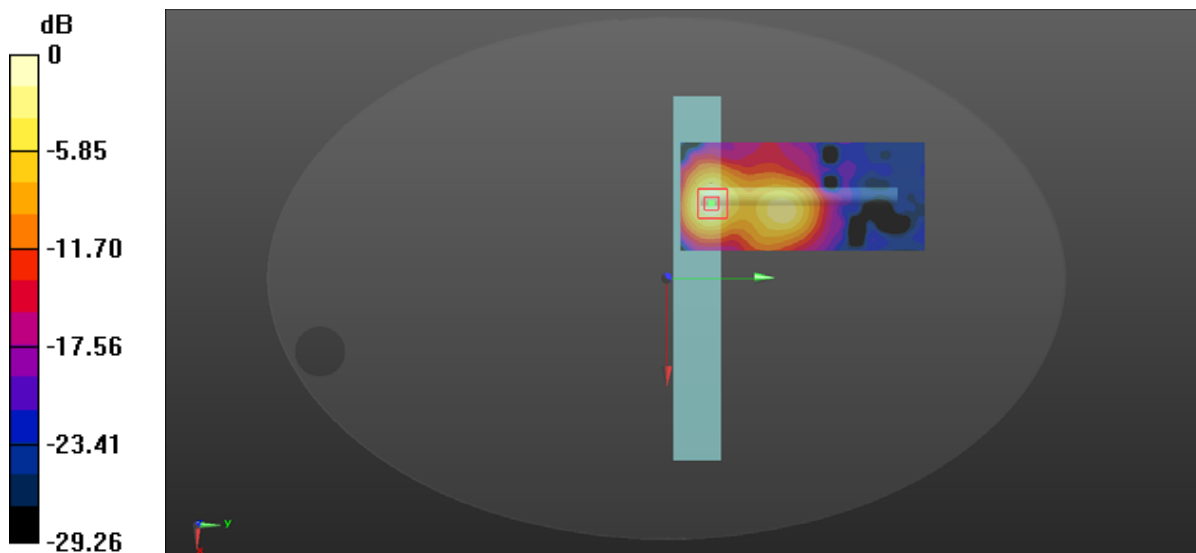
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0.1320 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 0.865 W/kg; SAR(10 g) = 0.343 W/kg

Maximum value of SAR (measured) = 1.66 W/kg



Test Plot 23#: 5.8G SRD_Mid_20M_Close To Body Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD; Frequency: 5779 MHz; Duty Cycle: 1:1.31

Medium parameters used: $f = 5779$ MHz; $\sigma = 5.349$ S/m; $\epsilon_r = 35.026$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5779 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.73 W/kg

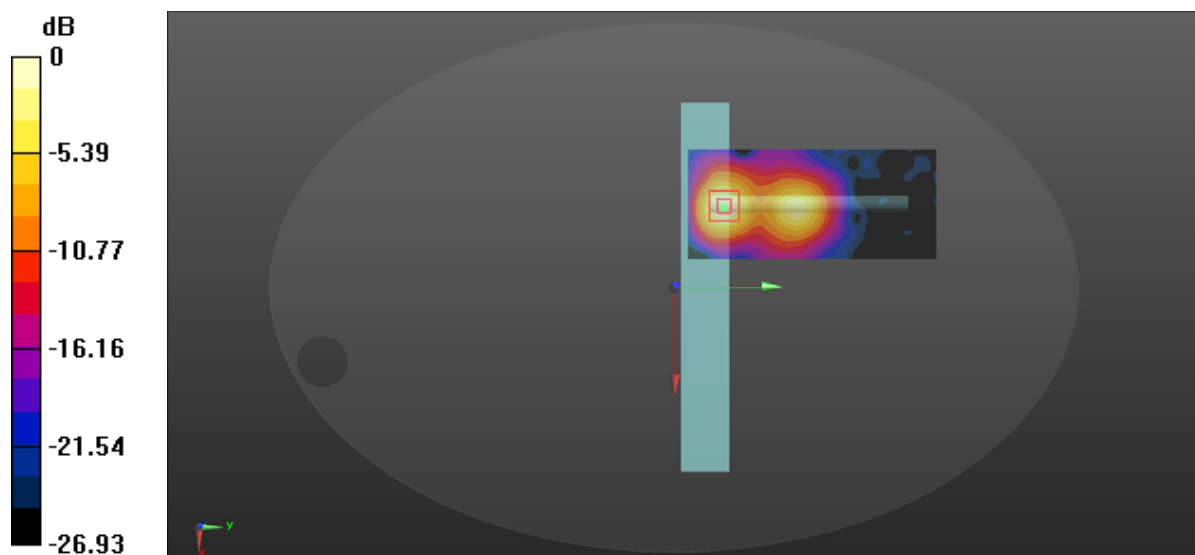
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0.4460 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 3.19 W/kg

SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.499 W/kg

Maximum value of SAR (measured) = 2.55 W/kg



0 dB = 2.55 W/kg = 4.07 dBW/kg

Test Plot 24#:5.8G SRD_High_20M _ Close To Body Top

DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1

Communication System: 5.8G SRD; Frequency: 5820 MHz; Duty Cycle: 1:1.31

Medium parameters used: $f = 5820$ MHz; $\sigma = 5.501$ S/m; $\epsilon_r = 34.723$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5820 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.78 W/kg

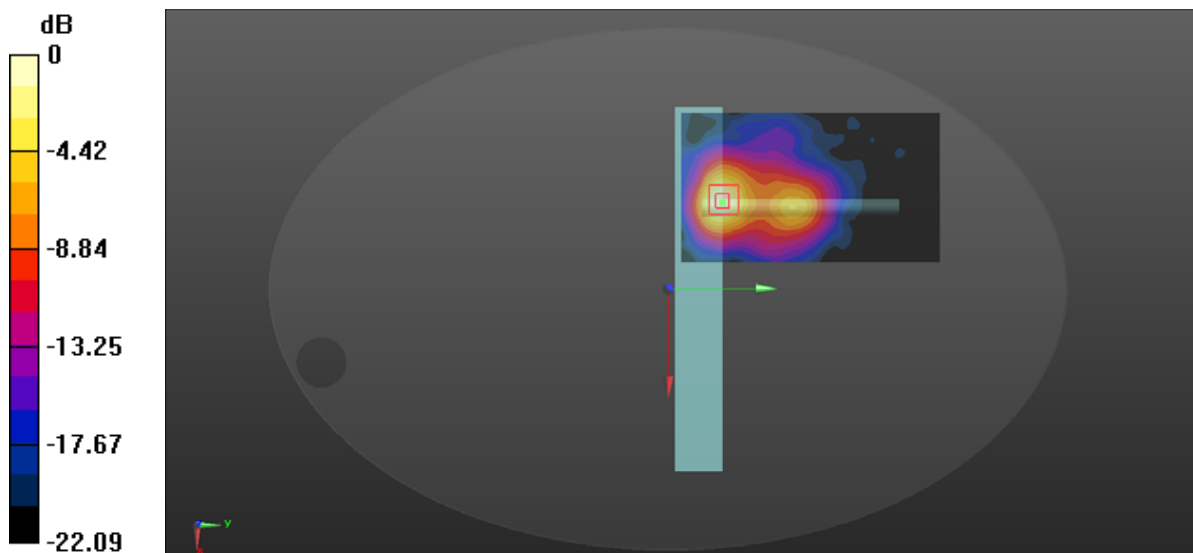
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 0.7230 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.502 W/kg

Maximum value of SAR (measured) = 2.38 W/kg



0 dB = 2.38 W/kg = 3.77 dBW/kg

Test Plot 25#:5.8G SRD_Mid_1.25M_ Close To Body Top**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G SRD; Frequency: 5765 MHz; Duty Cycle: 1:5.95

Medium parameters used: $f = 5765$ MHz; $\sigma = 5.226$ S/m; $\epsilon_r = 35.162$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5765 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (81x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

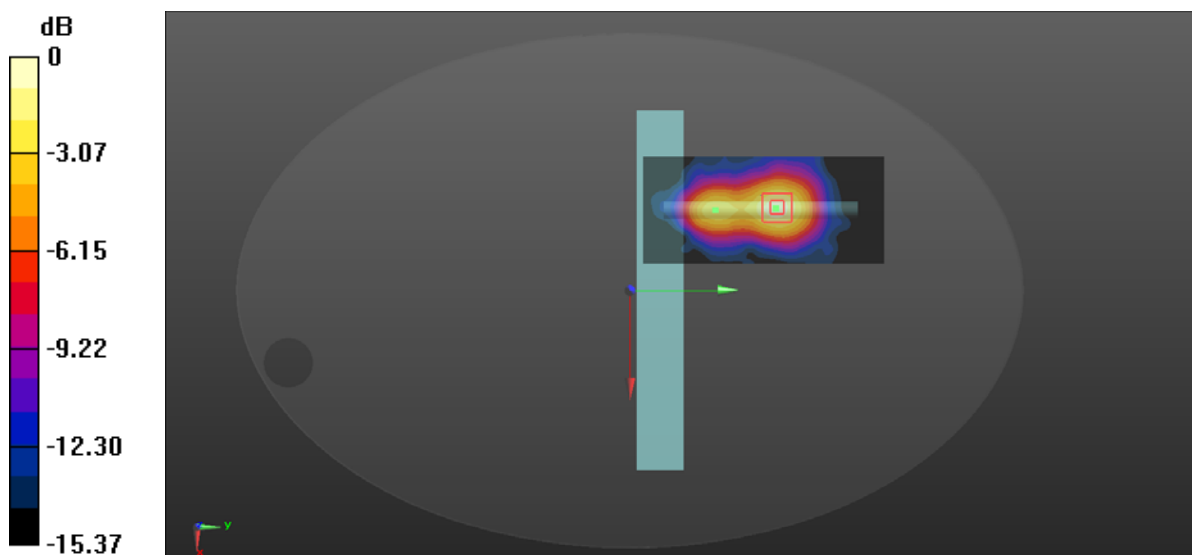
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.888 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.709 W/kg; SAR(10 g) = 0.401 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



Test Plot 26#: 2.4G Wi-Fi0 Mode B_ Handheld Back_Mid_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0966 W/kg

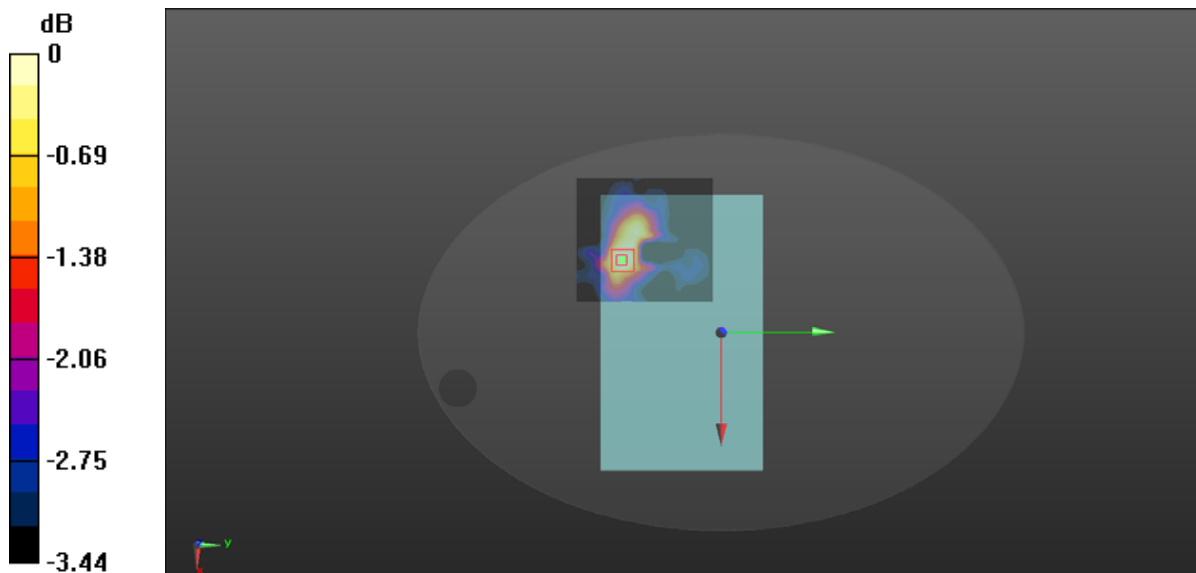
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.702 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.104 W/kg

SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.059 W/kg

Maximum value of SAR (measured) = 0.0908 W/kg



0 dB = 0.0908 W/kg = -10.42 dBW/kg

Plot 27#: 2.4G Wi-Fi0 Mode B_Handheld Front_Low_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.766$ S/m; $\epsilon_r = 39.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2412 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.50 W/kg

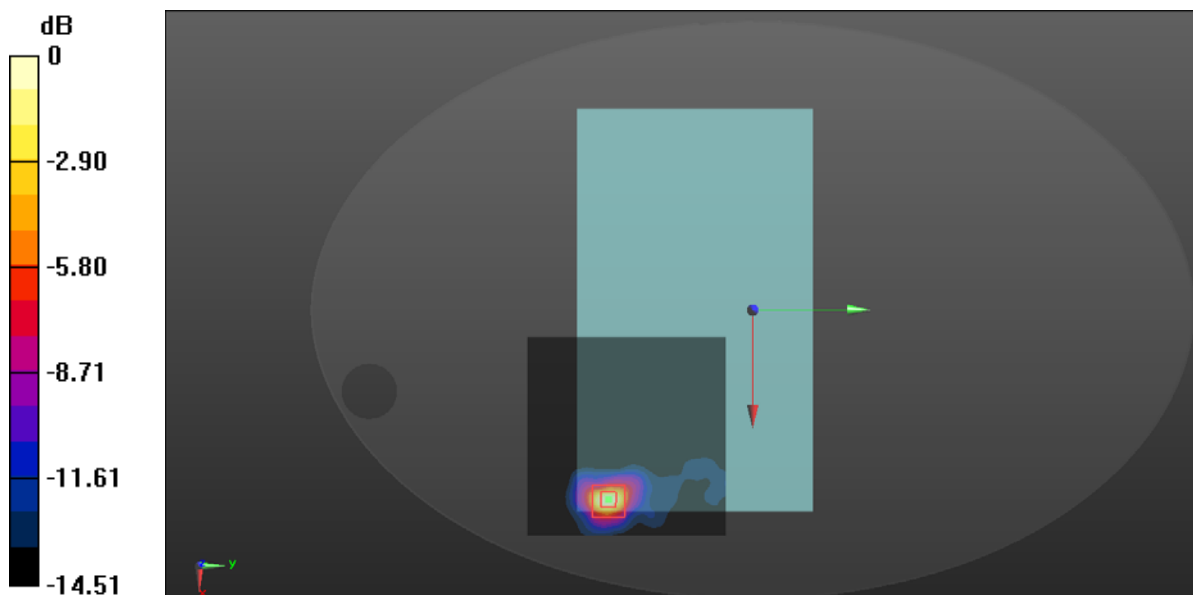
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.297 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg = 1.67 dBW/kg

Plot 28#: 2.4G Wi-Fi0 Mode B_Handheld Front_Mid_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.71 W/kg

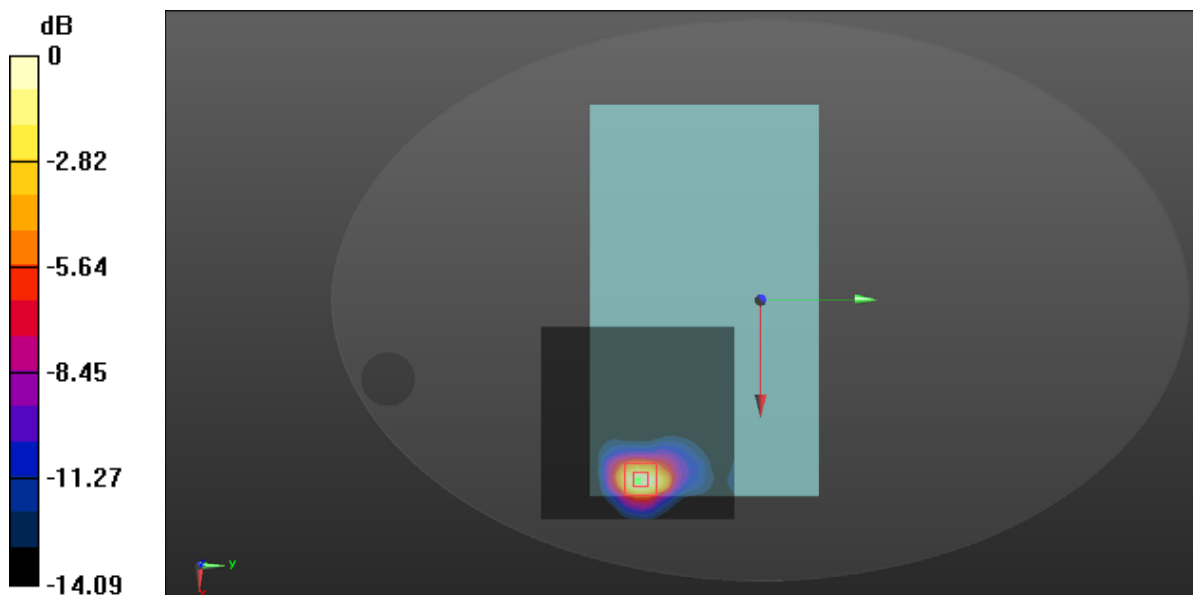
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.300 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.434 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

Plot 29#: 2.4G Wi-Fi0 Mode B_Handheld Front_High_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 38.542$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2462 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.52 W/kg

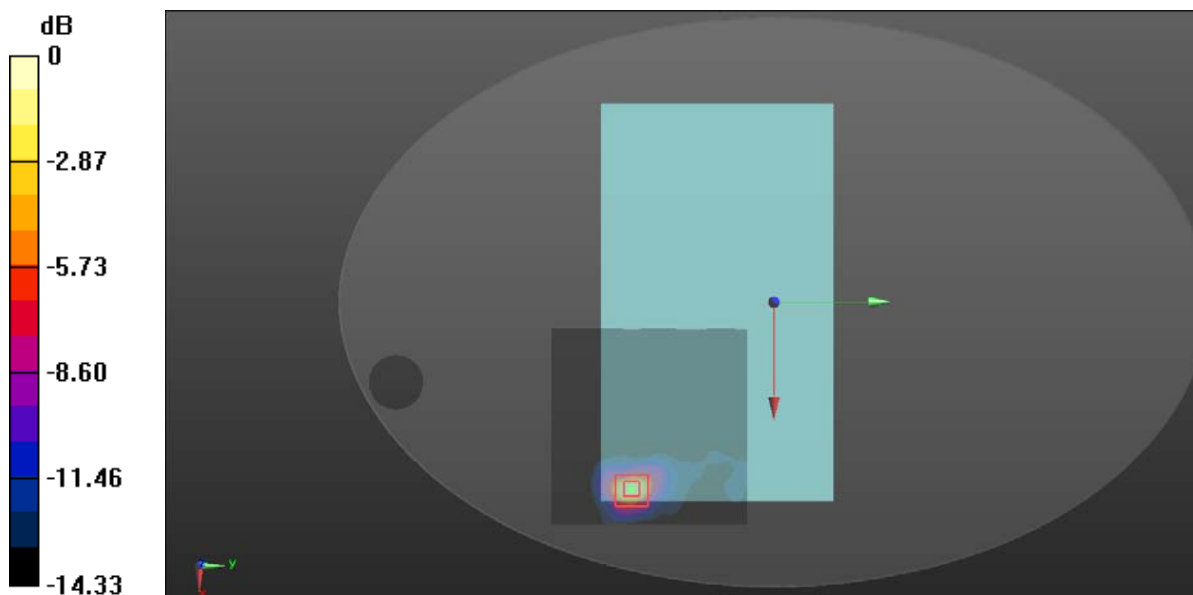
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.312 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.72 W/kg

SAR(1 g) = 0.650 W/kg; SAR(10 g) = 0.237 W/kg

Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

Test Plot 30#: 2.4G Wi-Fi0 Mode B_ Handheld Bottom _Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0597 W/kg

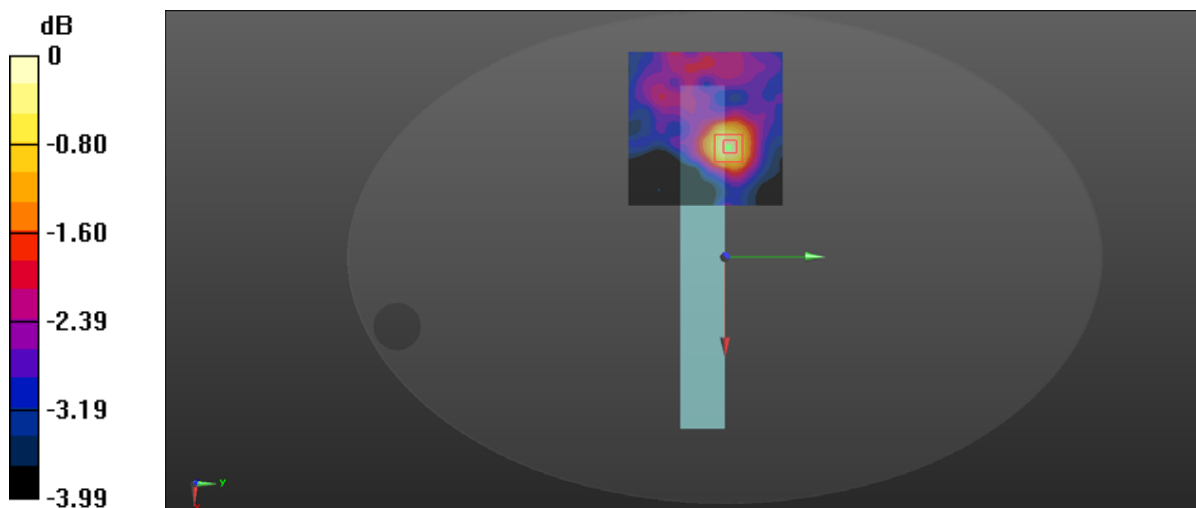
Zoom Scan (6x7x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.571 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0680 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.038 W/kg

Maximum value of SAR (measured) = 0.0615 W/kg



0 dB = 0.0615 W/kg = -12.11 dBW/kg

Test Plot 31#: 2.4G Wi-Fi0 Mode B_ Close to Body Back Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.212 W/kg

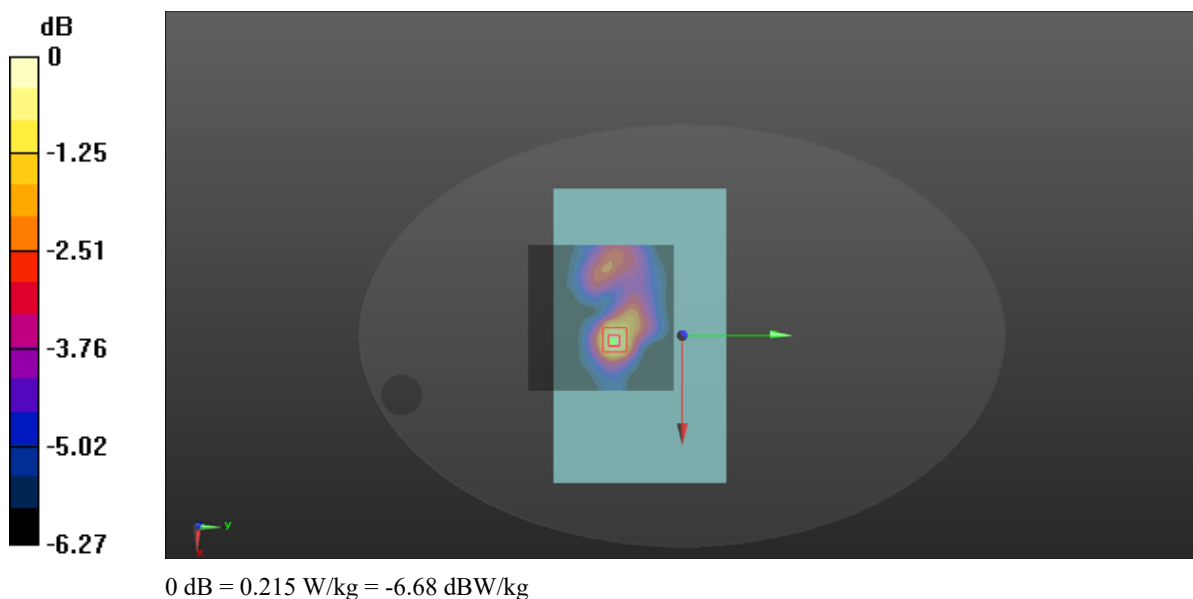
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.563 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.215 W/kg



Plot 32#: 2.4G Wi-Fi0 Mode B_ Close to Body Front_Low _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.766$ S/m; $\epsilon_r = 39.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2412 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.411 W/kg

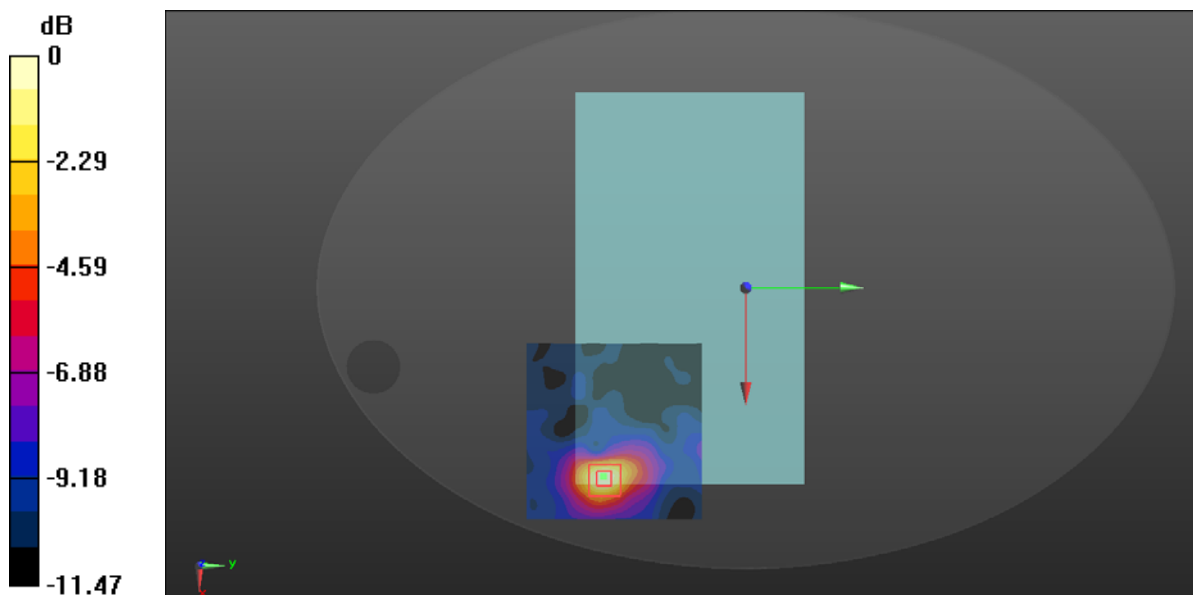
Zoom Scan (7x7x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.393 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.403 W/kg



0 dB = 0.403 W/kg = -3.95 dBW/kg

Plot 33#: 2.4G Wi-Fi0 Mode B_ Close to Body Front _Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (191x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.638 W/kg

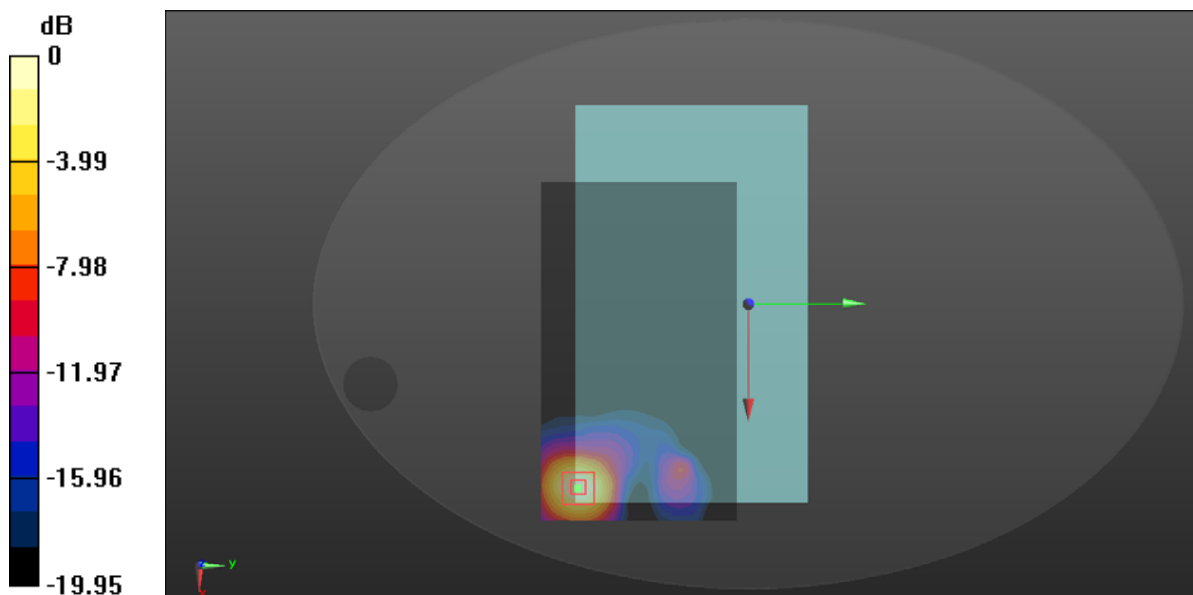
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.758 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.730 W/kg

SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.592 W/kg



0 dB = 0.592 W/kg = -2.28 dBW/kg

Plot 34#: 2.4G Wi-Fi0 Mode B_ Close to Body Front_ High_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 38.542$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2462 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.414 W/kg

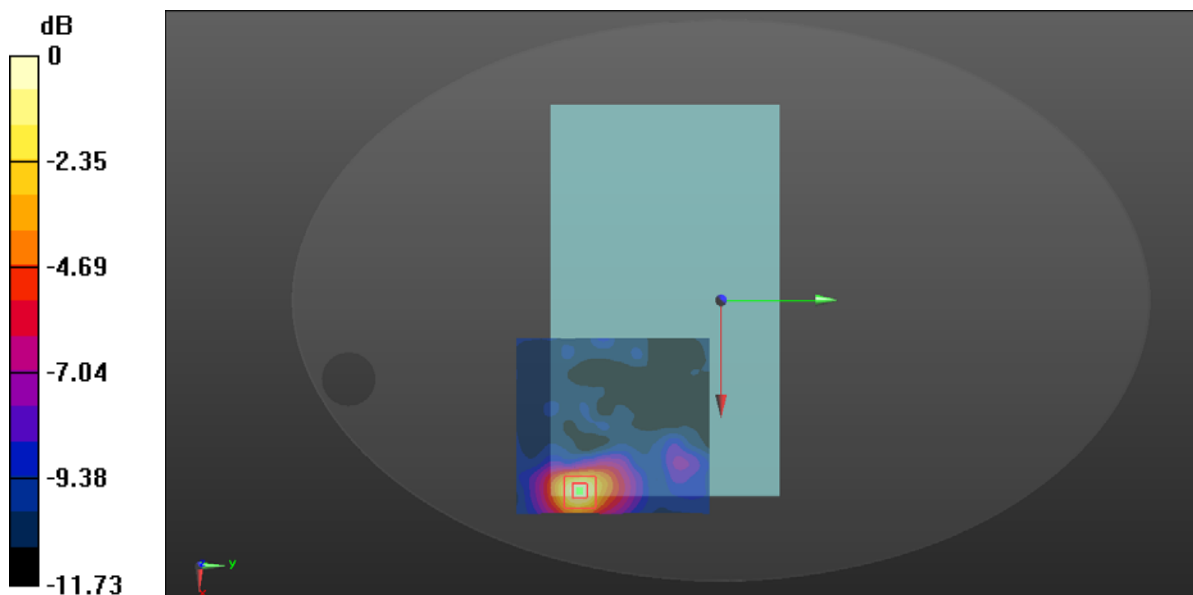
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.371 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (measured) = 0.417 W/kg



0 dB = 0.417 W/kg = -3.80 dBW/kg

Plot 35#: 2.4G Wi-Fi0 Mode B_ Close to Body Bottom_ Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (151x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.517 W/kg

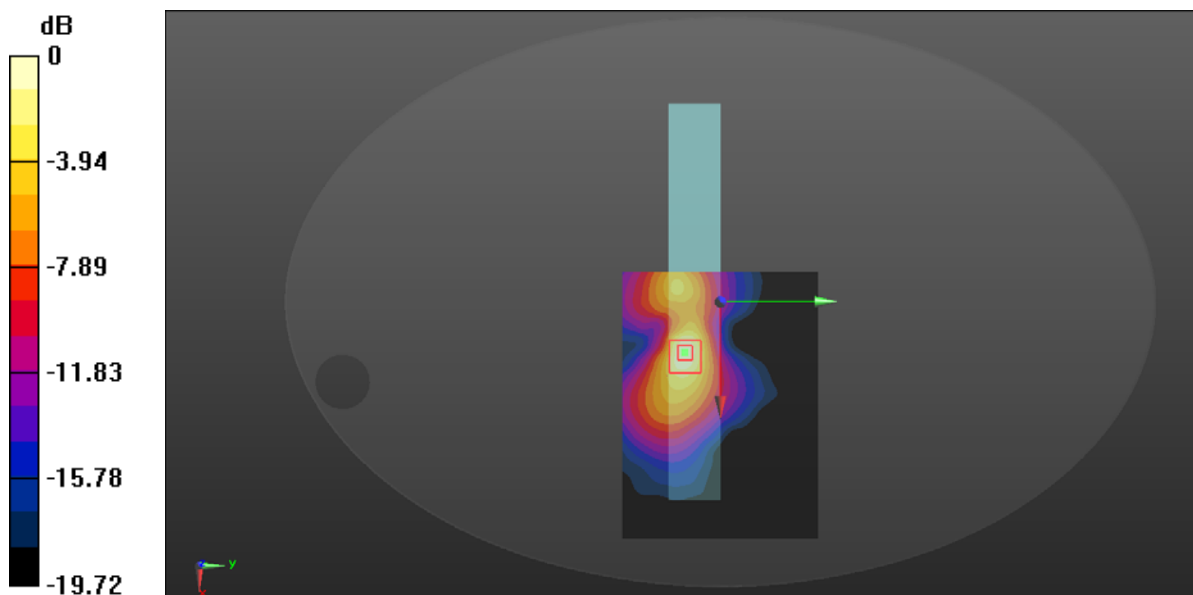
Zoom Scan (6x7x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.316 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.618 W/kg

SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.497 W/kg



0 dB = 0.497 W/kg = -3.04 dBW/kg

Plot 36#: 2.4G Wi-Fi0 Mode B_Handheld Back_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.319 W/kg

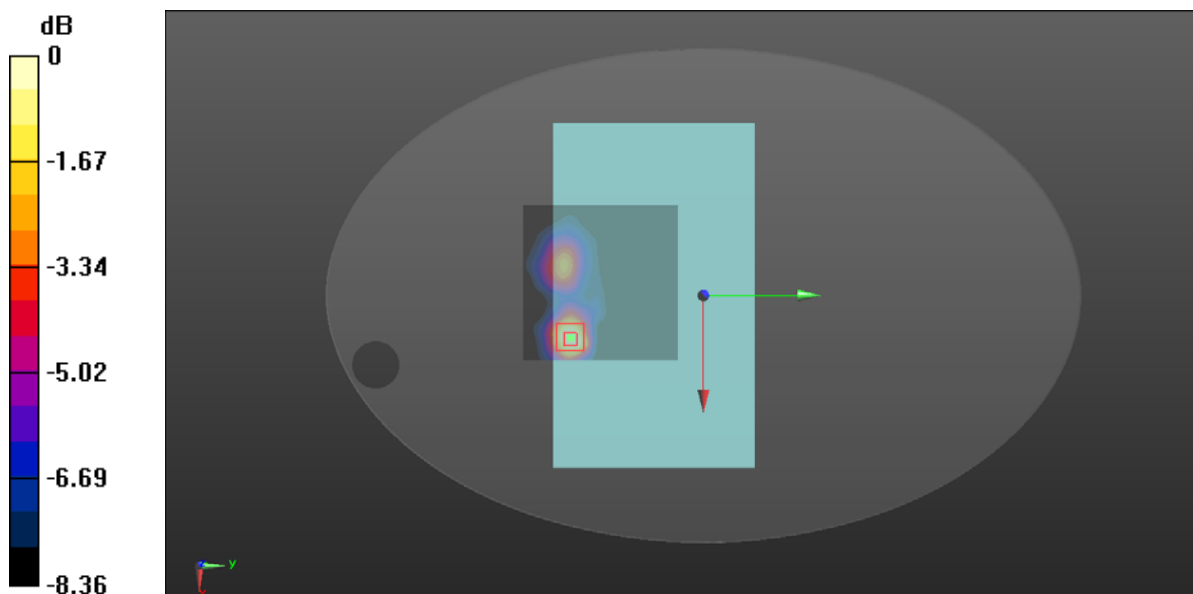
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.580 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.275 W/kg



0 dB = 0.275 W/kg = -5.61 dBW/kg

Plot 37#: 2.4G Wi-Fi0 Mode B_ Handheld Front_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.361 W/kg

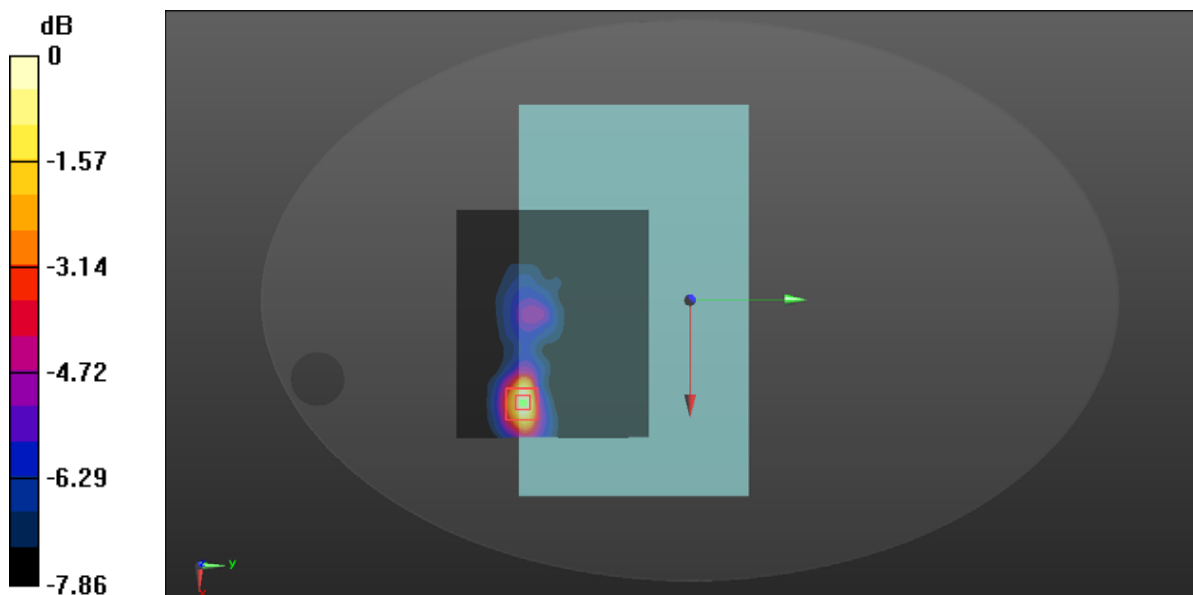
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.298 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.444 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.124 W/kg

Maximum value of SAR (measured) = 0.328 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

Plot 38#: 2.4G Wi-Fi0 Mode B_ Handheld Right _Mid _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0315 W/kg

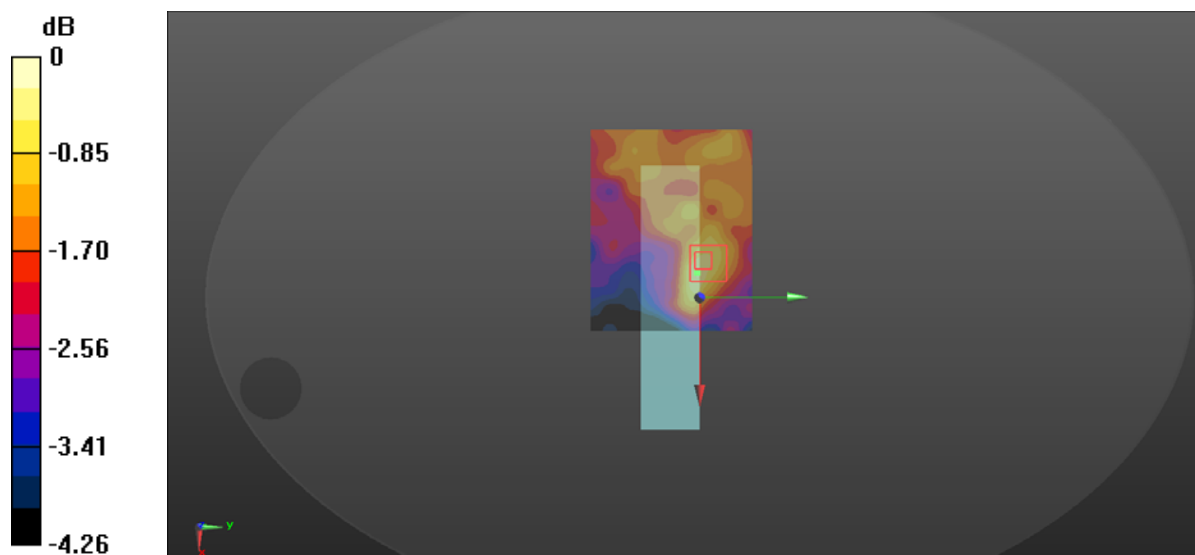
Zoom Scan (7x7x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.123 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0360 W/kg

SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0334 W/kg



0 dB = 0.0334 W/kg = -14.76 dBW/kg

Plot 39#: 2.4G Wi-Fi0 Mode B_ Handheld Bottom _Low _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.766$ S/m; $\epsilon_r = 39.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2412 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.809 W/kg

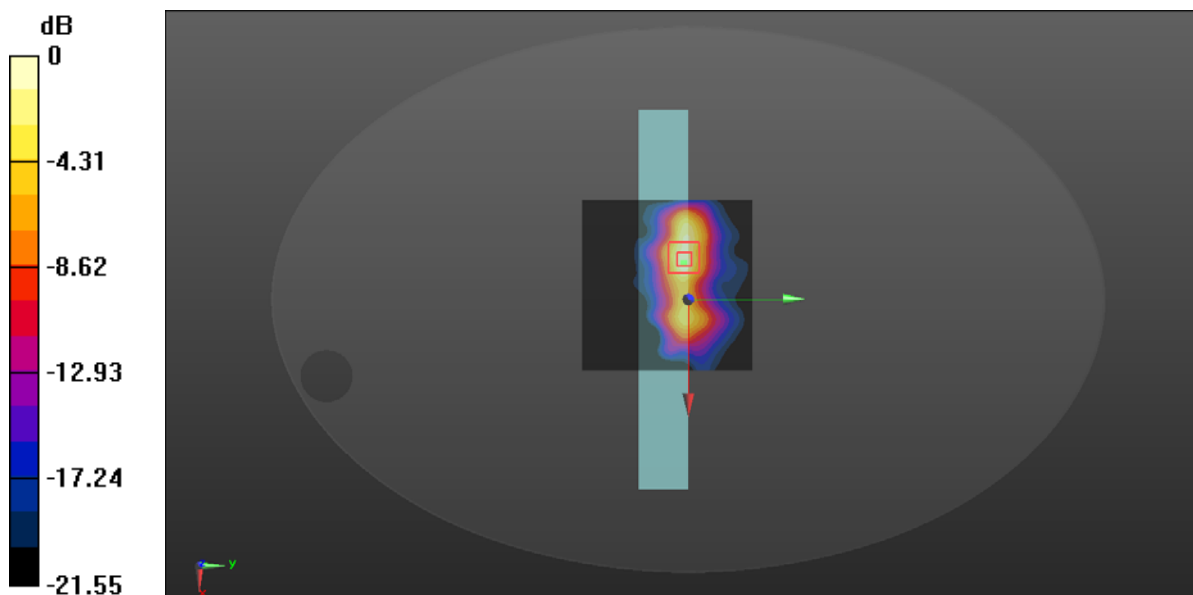
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.191 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.900 W/kg



0 dB = 0.900 W/kg = -0.46 dBW/kg

Plot 40#: 2.4G Wi-Fi0 Mode B_ Handheld Bottom_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.743 W/kg

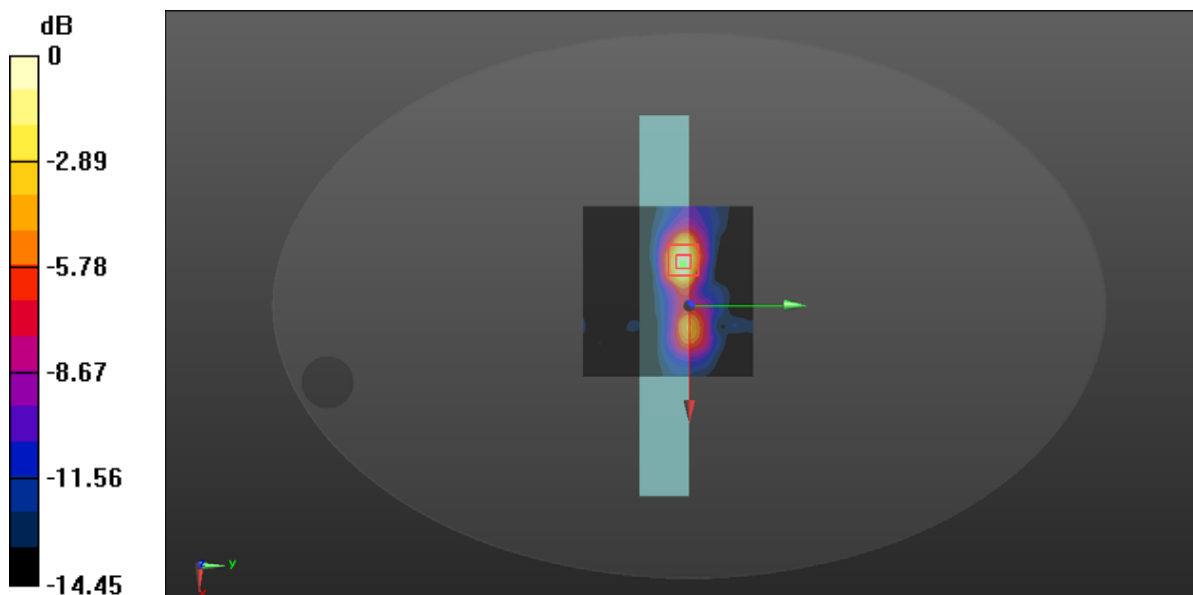
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.657 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.964 W/kg

SAR(1 g) = 0.413 W/kg; SAR(10 g) = 0.185 W/kg

Maximum value of SAR (measured) = 0.718 W/kg



0 dB = 0.718 W/kg = -1.44 dBW/kg

Plot 41#: 2.4G Wi-Fi0 Mode B_ Handheld Bottom _High _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 38.542$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2462 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.593 W/kg

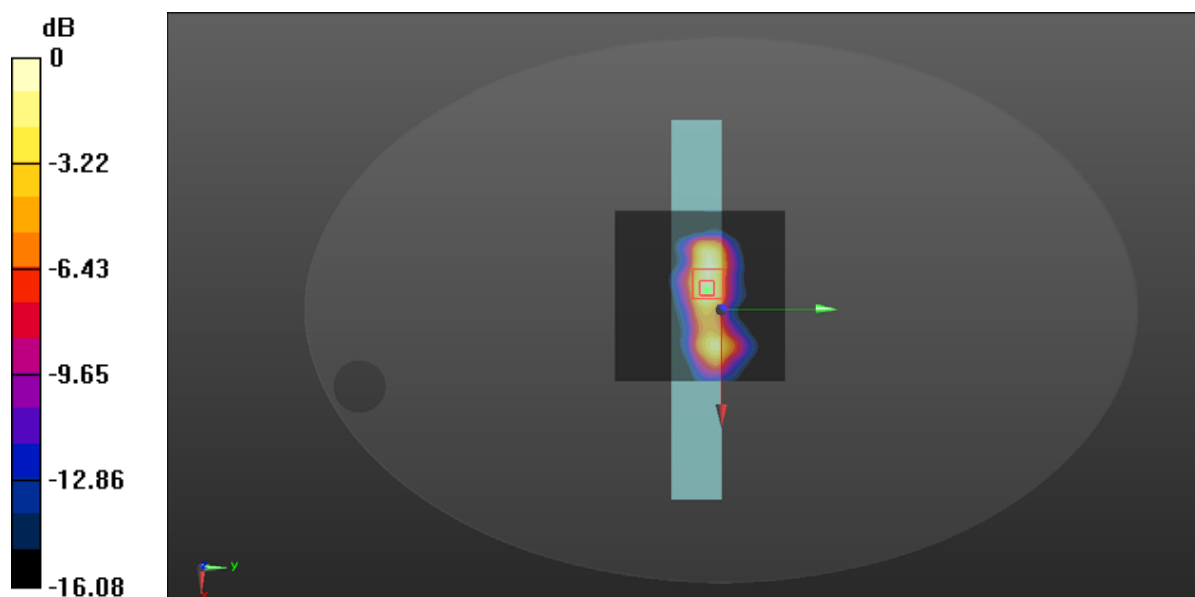
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.840 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.671 W/kg



0 dB = 0.671 W/kg = -1.73 dBW/kg

Plot 42#: 2.4G Wi-Fi0 Mode B_ Close to Body Back_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.144 W/kg

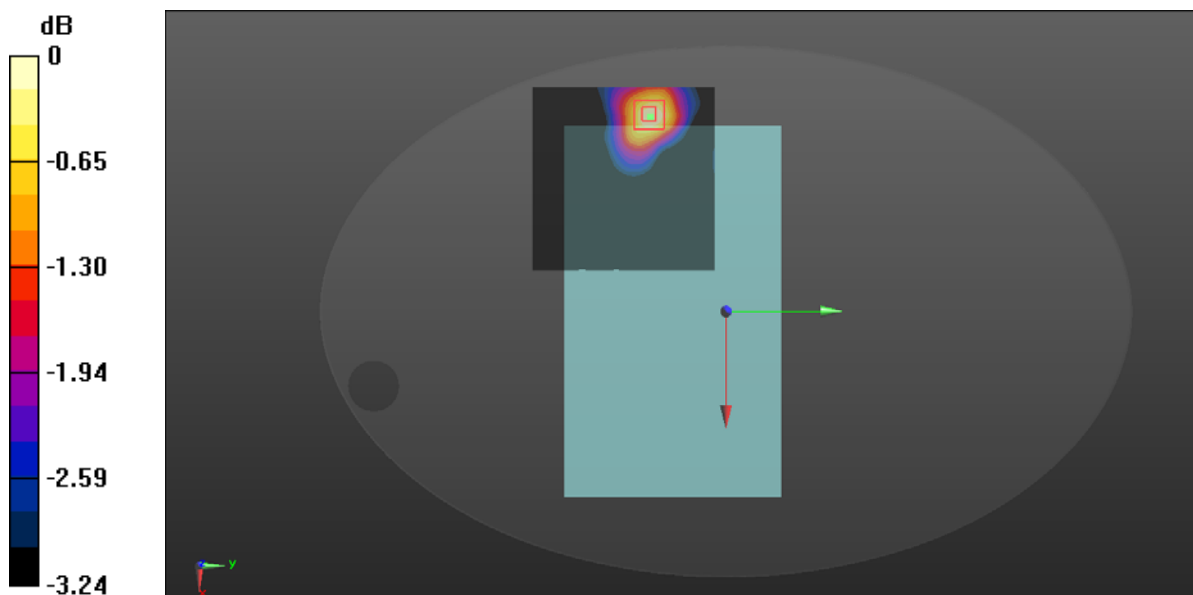
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.270 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.141 W/kg



0 dB = 0.141 W/kg = -8.51 dBW/kg

Plot 43#: 2.4G Wi-Fi0 Mode B_ Close to Body Front_Low_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.766$ S/m; $\epsilon_r = 39.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2412 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x131x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.201 W/kg

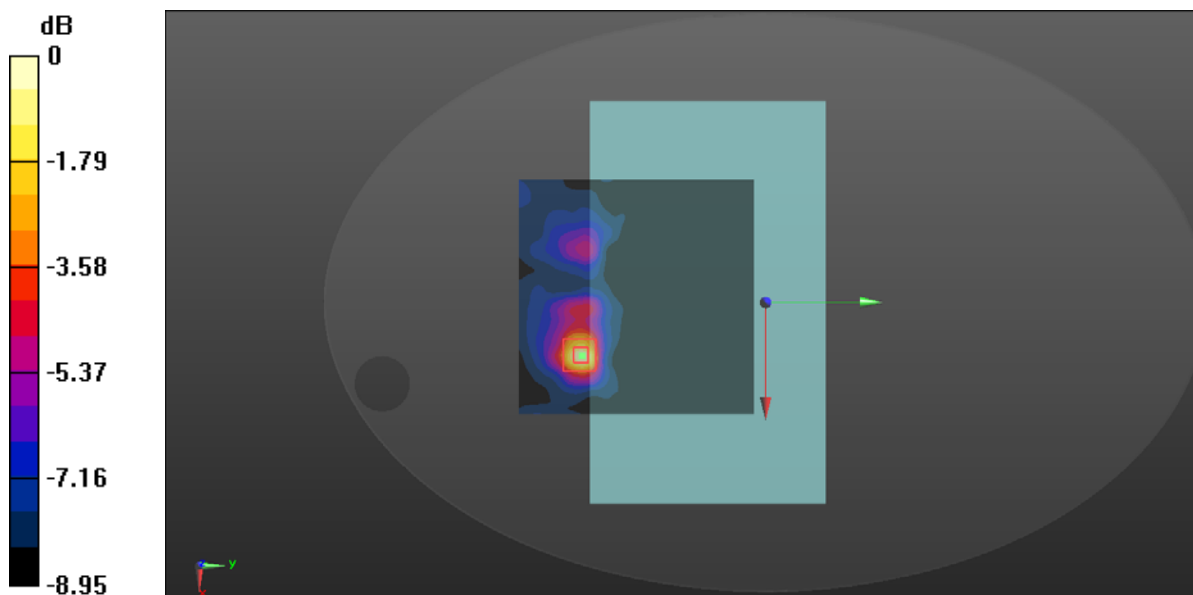
Zoom Scan (5x5x4)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.379 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.198 W/kg



0 dB = 0.198 W/kg = -7.03 dBW/kg

Plot 44#: 2.4G Wi-Fi0 Mode B_ Close to Body Front_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.284 W/kg

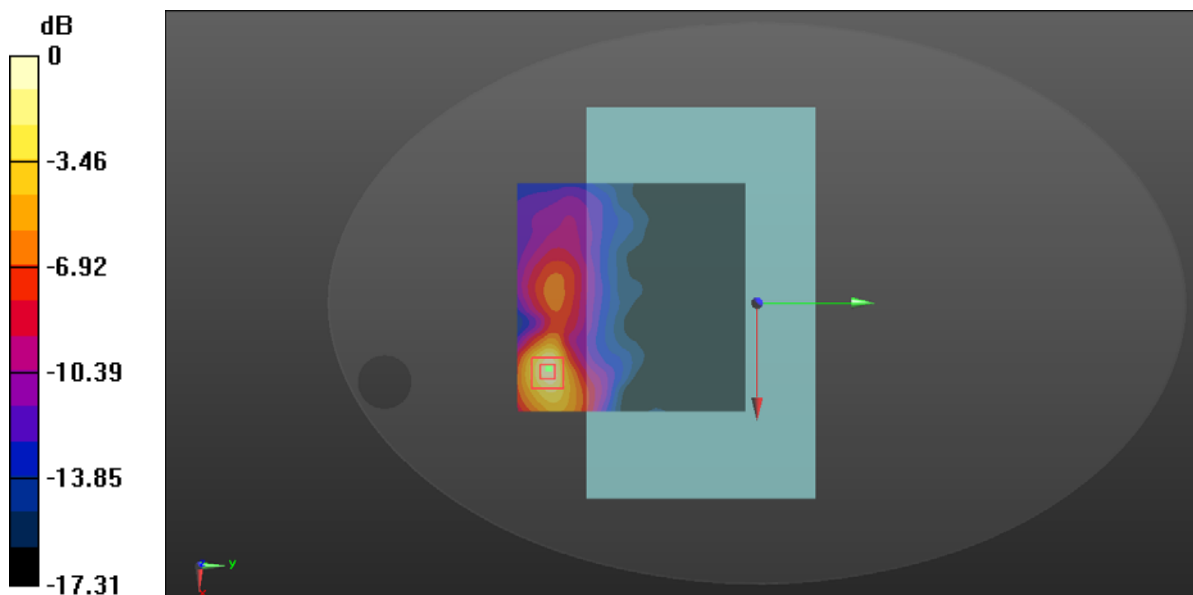
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.034 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.375 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.298 W/kg



0 dB = 0.298 W/kg = -5.26 dBW/kg

Plot 45#: 2.4G Wi-Fi0 Mode B_ Close to Body Front _High _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 38.542$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2462 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x131x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.201 W/kg

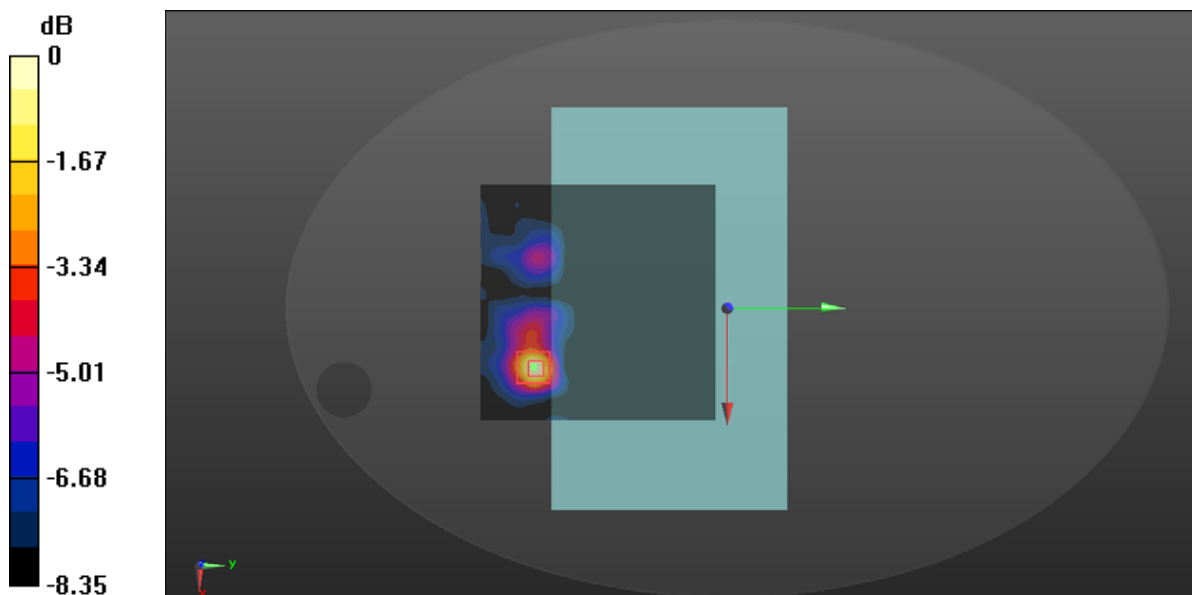
Zoom Scan (5x5x4)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.895 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.422 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.059 W/kg

Maximum value of SAR (measured) = 0.194 W/kg



0 dB = 0.194 W/kg = -7.12 dBW/kg

Plot 46#: 2.4G Wi-Fi0 Mode B_ Close to Body Right Mid__Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0205 W/kg

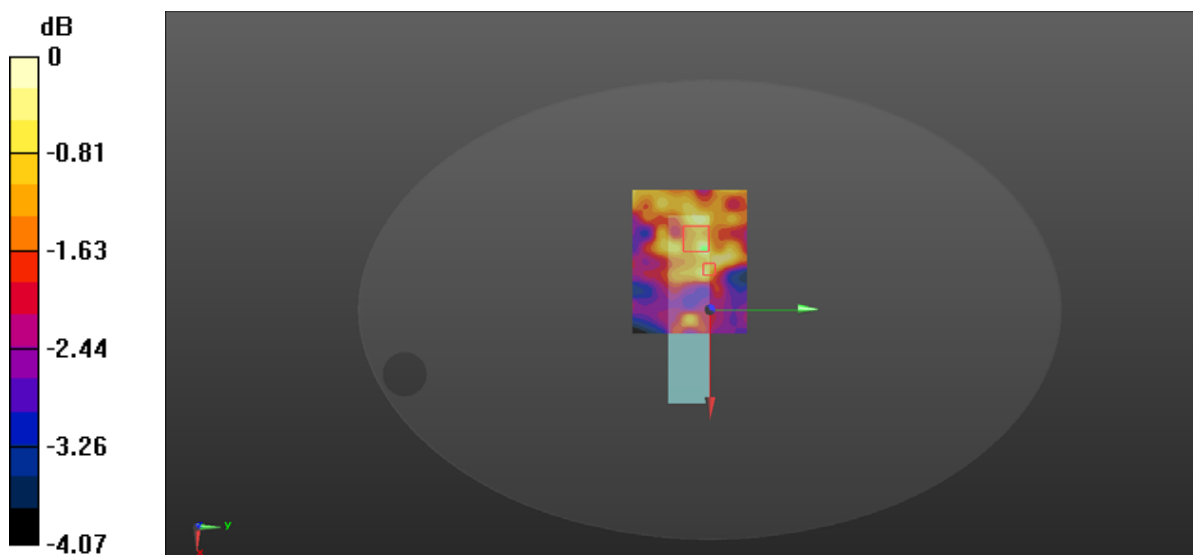
Zoom Scan (7x7x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.599 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0250 W/kg

SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.016 W/kg

Maximum value of SAR (measured) = 0.0215 W/kg



0 dB = 0.0215 W/kg = -16.68 dBW/kg

Plot 47#: 2.4G Wi-Fi0 Mode B_Close to Body Bottom_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: CW; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(7.44, 7.44, 7.44) @ 2437 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (221x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0436 W/kg

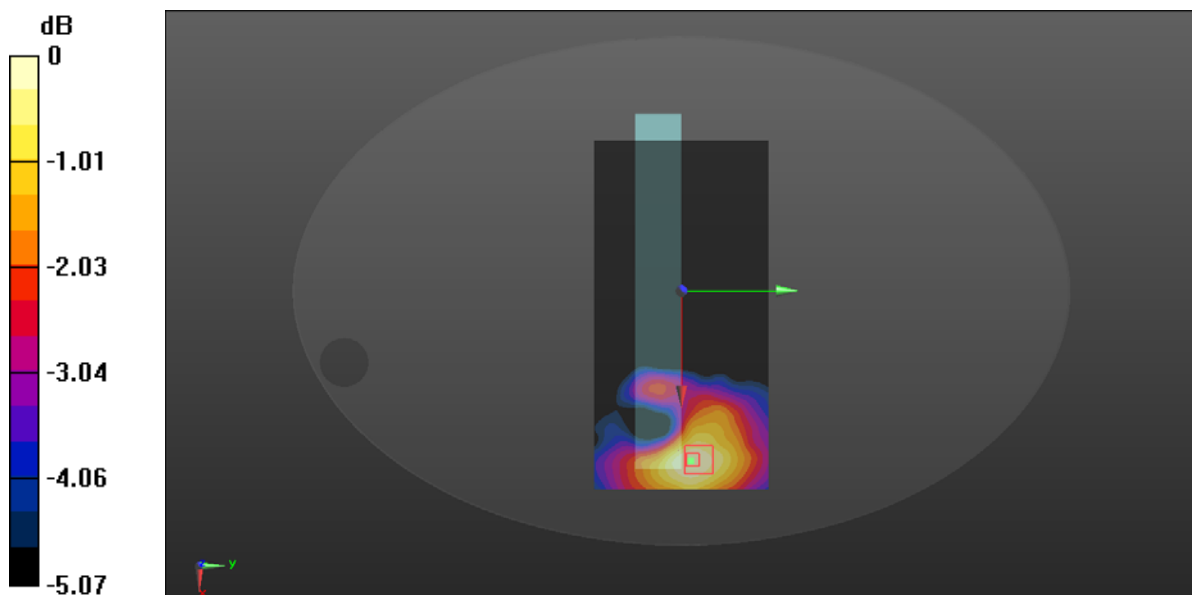
Zoom Scan (5x6x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.570 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0500 W/kg

SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.0423 W/kg



0 dB = 0.0423 W/kg = -13.74 dBW/kg

Plot 48#: 5.2G Wi-Fi0 Mode A _ Handheld Back_Mid_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.565 W/kg

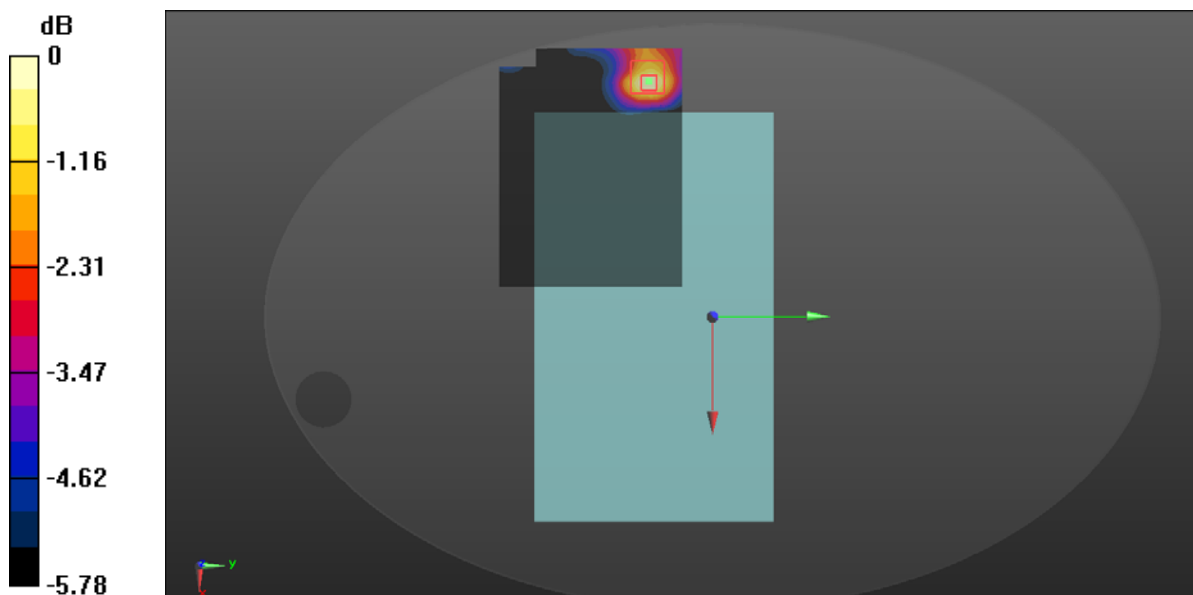
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.987 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.870 W/kg

SAR(1 g) = 0.365 W/kg; SAR(10 g) = 0.242 W/kg

Maximum value of SAR (measured) = 0.550 W/kg



0 dB = 0.550 W/kg = -2.60 dBW/kg

Plot 49#: 5.2G Wi-Fi0 Mode A_Handheld Front_Low_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.505$ S/m; $\epsilon_r = 36.213$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5180 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (91x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.86 W/kg

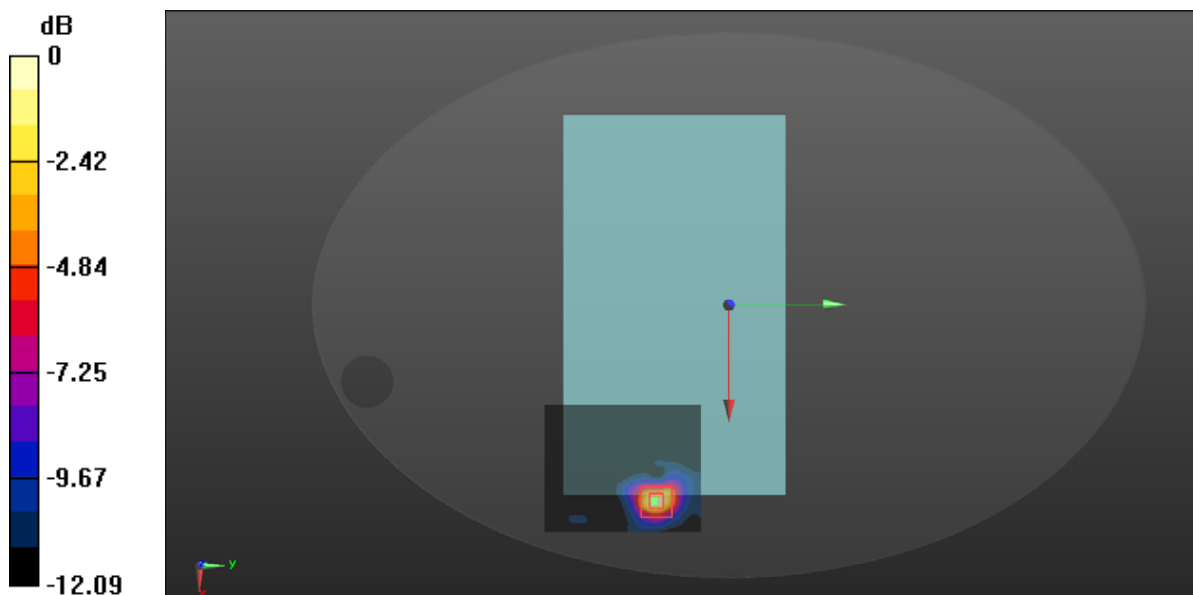
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.843 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 1.47 W/kg; SAR(10 g) = 0.634 W/kg

Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg = 4.73 dBW/kg

Plot 50#: 5.2G Wi-Fi0 Mode A _Handheld Front_ Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 2.87 W/kg

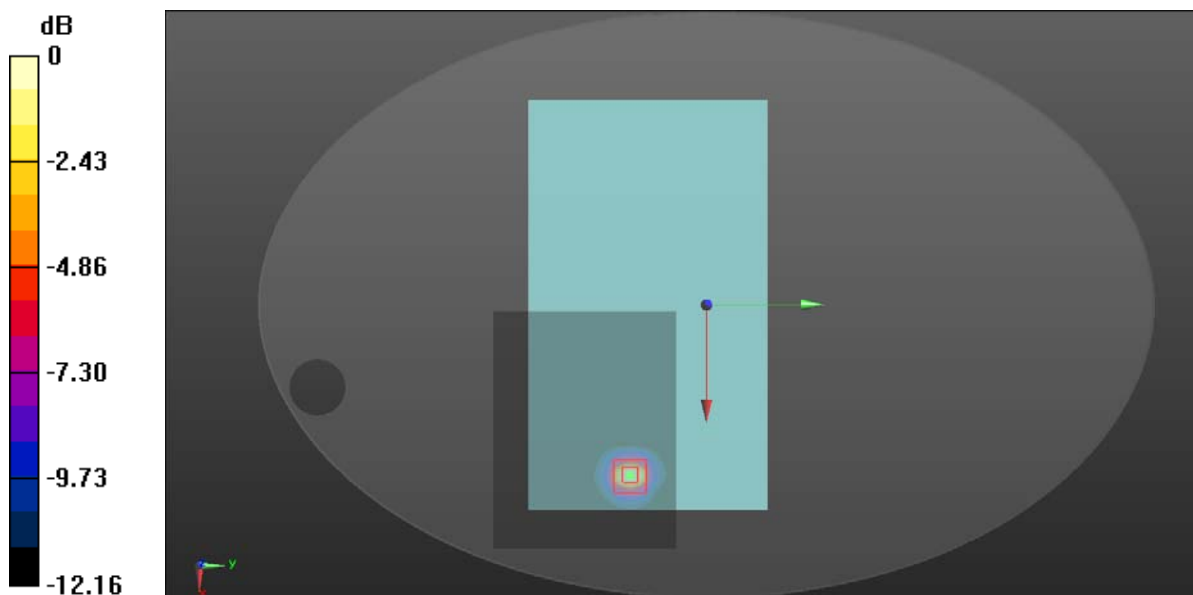
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.958 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 4.46 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.444 W/kg

Maximum value of SAR (measured) = 2.51 W/kg



0 dB = 2.51 W/kg = 4.00 dBW/kg

Plot 51#: 5.2G Wi-Fi0 Mode A_Handheld Front_High_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.72$ S/m; $\epsilon_r = 35.763$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5240 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x111x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.73 W/kg

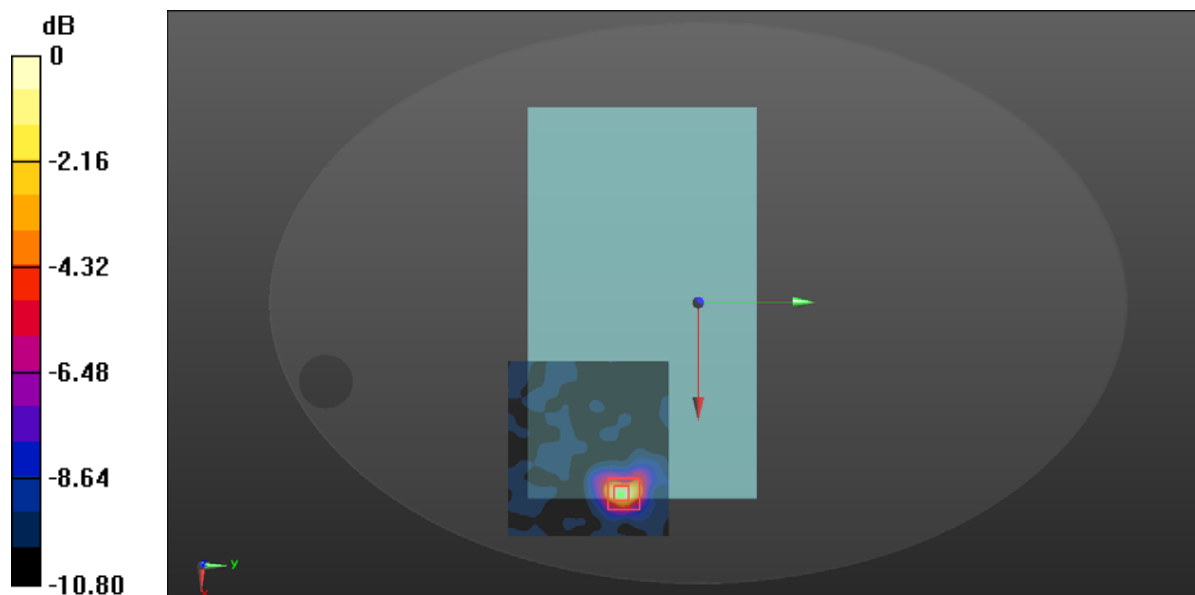
Zoom Scan (9x13x6)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=2$ mm

Reference Value = 6.604 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.430 W/kg

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

Test Plot 52#: 5.2G Wi-Fi0 Mode A _Handheld Bottom _Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.143 W/kg

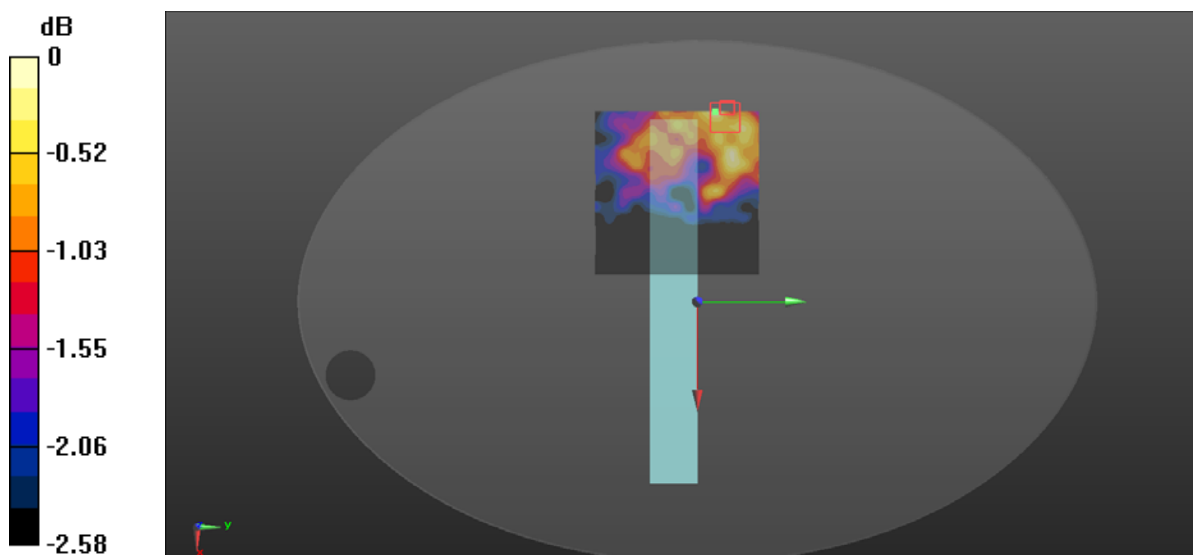
Zoom Scan (8x8x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.295 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.248 W/kg

SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.141 W/kg



0 dB = 0.141 W/kg = -8.51 dBW/kg

Plot 53#: 5.2G Wi-Fi0 Mode A_ Close to Body Back_Mid_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.209 W/kg

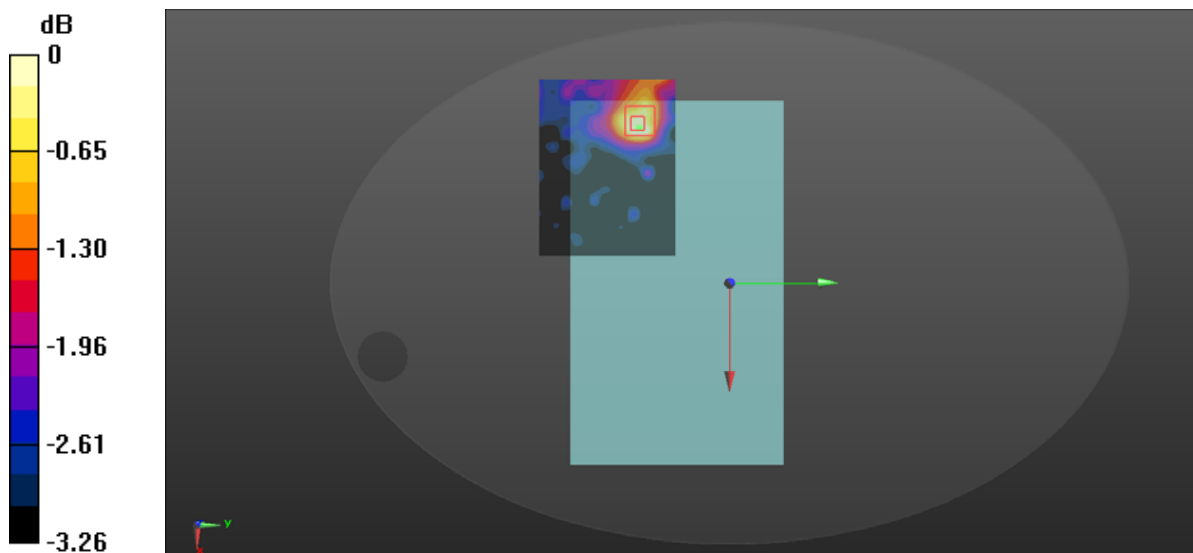
Zoom Scan (8x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.385 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.219 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.197 W/kg



0 dB = 0.197 W/kg = -7.06 dBW/kg

DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.505$ S/m; $\epsilon_r = 36.213$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5180 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

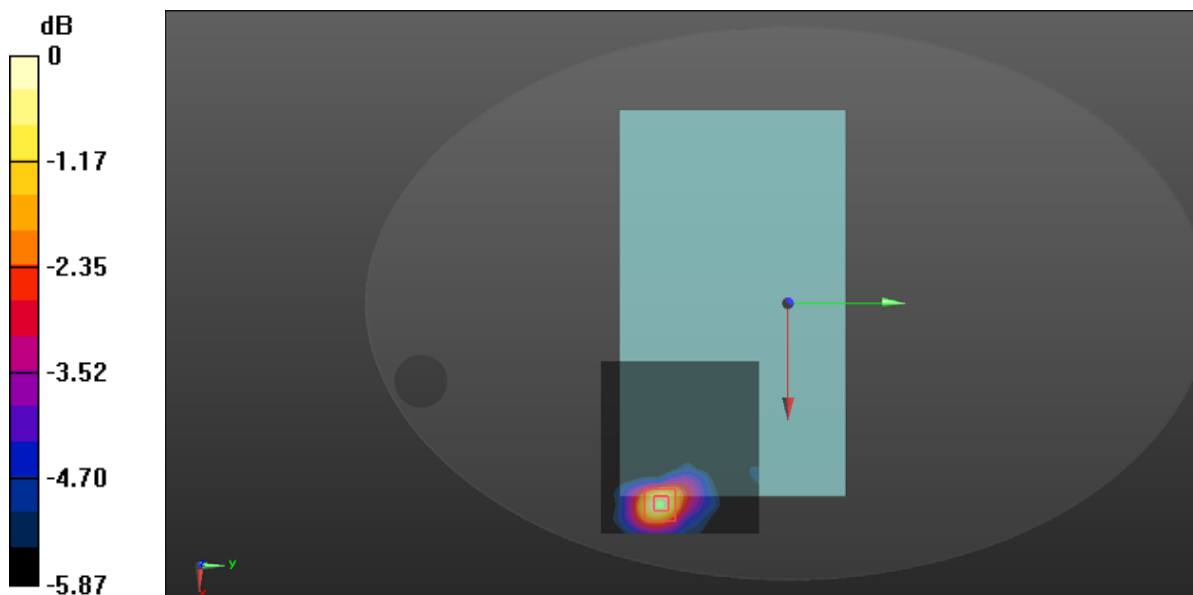
Maximum value of SAR (interpolated) = 0.571 W/kg

Reference Value = 5.707 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.237 W/kg

Maximum value of SAR (measured) = 0.546 W/kg


$$0 \text{ dB} = 0.546 \text{ W/kg} = -2.63 \text{ dBW/kg}$$

Plot 55#: 5.2G Wi-Fi0 Mode A_ Close to Body Front_Mid_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.481 W/kg

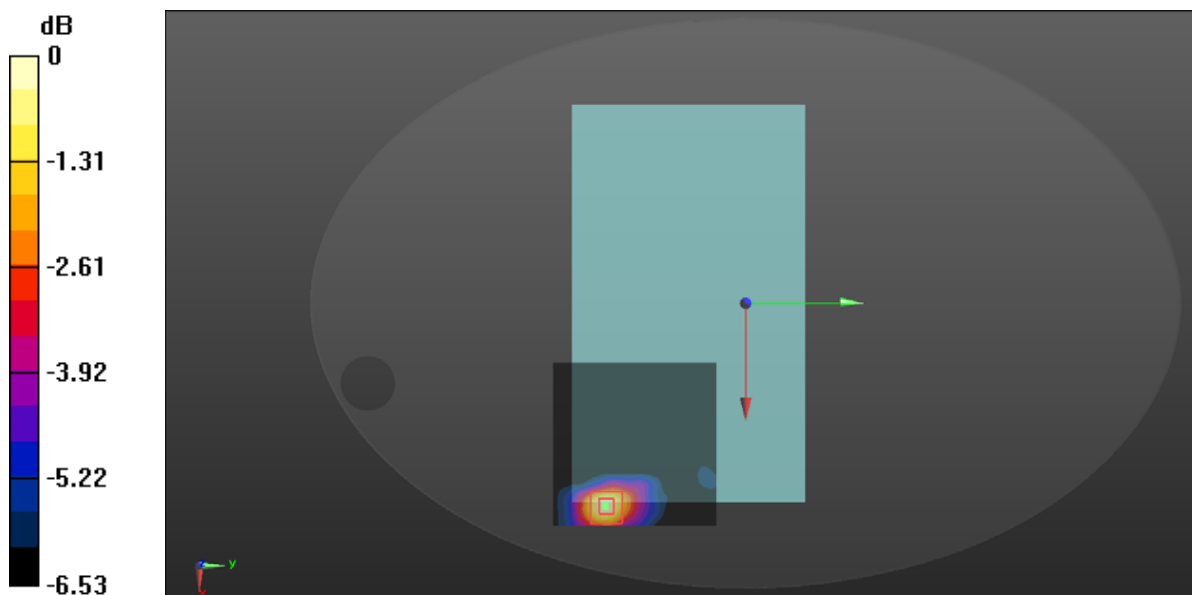
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.784 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.188 W/kg

Maximum value of SAR (measured) = 0.477 W/kg



0 dB = 0.477 W/kg = -3.21 dBW/kg

Plot 56#: 5.2G Wi-Fi0 Mode A _ Close to Body Front_ High _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.72$ S/m; $\epsilon_r = 35.763$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5240 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x111x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.441 W/kg

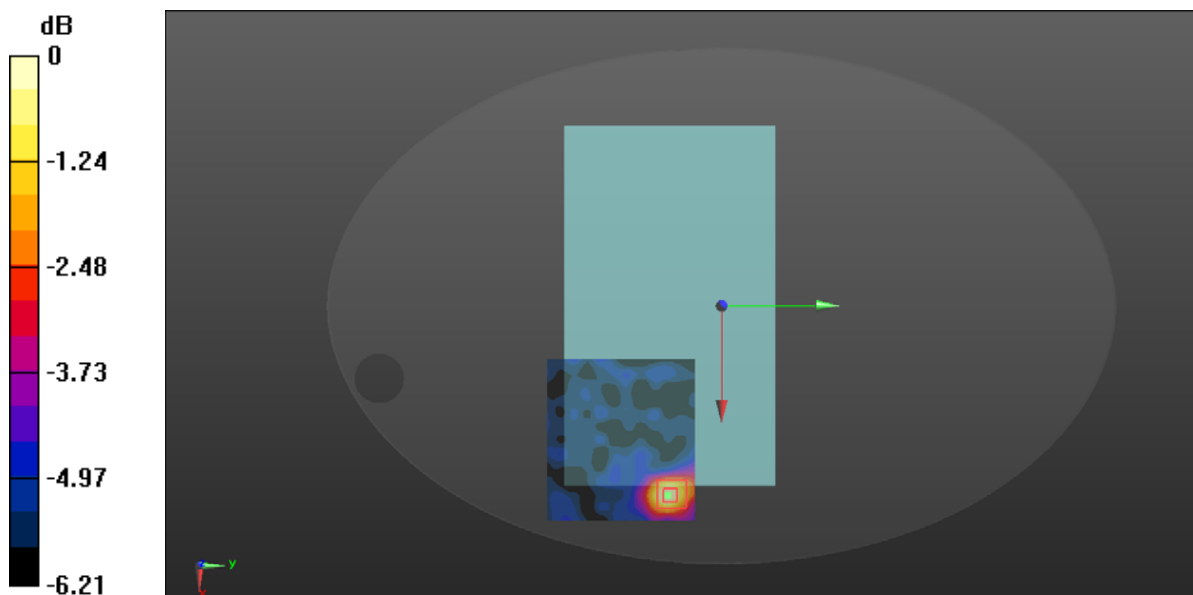
Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=2$ mm

Reference Value = 6.021 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.546 W/kg

SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.435 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

Test Plot 57#: 5.2G Wi-Fi0 Mode A_Close to Body Bottom_Mid_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (141x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0832 W/kg

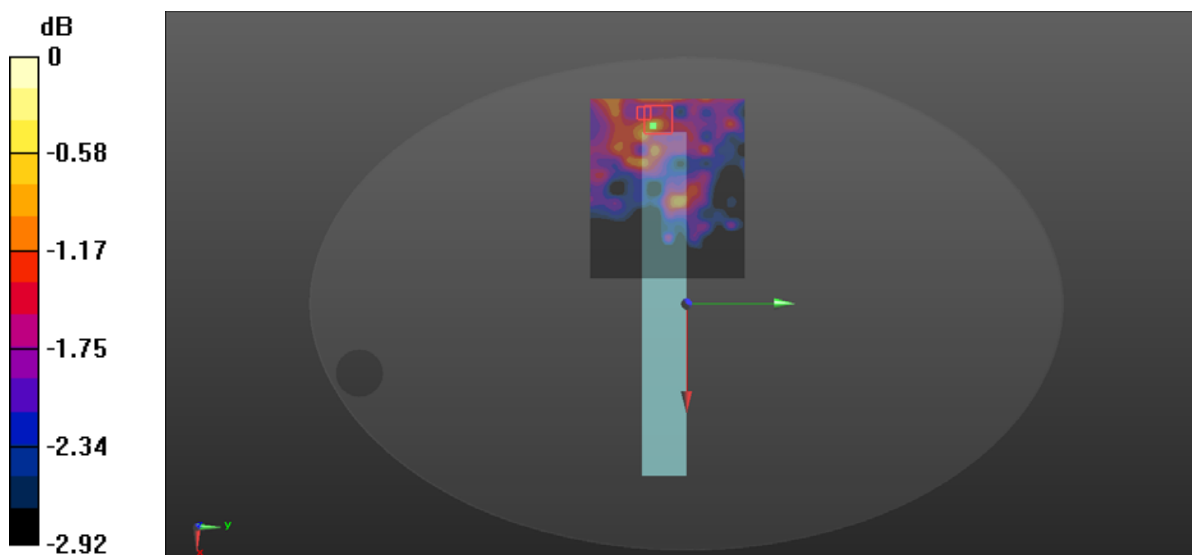
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 3.229 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.115 W/kg

SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.074 W/kg

Maximum value of SAR (measured) = 0.0960 W/kg



0 dB = 0.0960 W/kg = -10.18 dBW/kg

Plot 58#:5.2G Wi-Fi0 Mode A _Handheld Back_Mid_ Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.332 W/kg

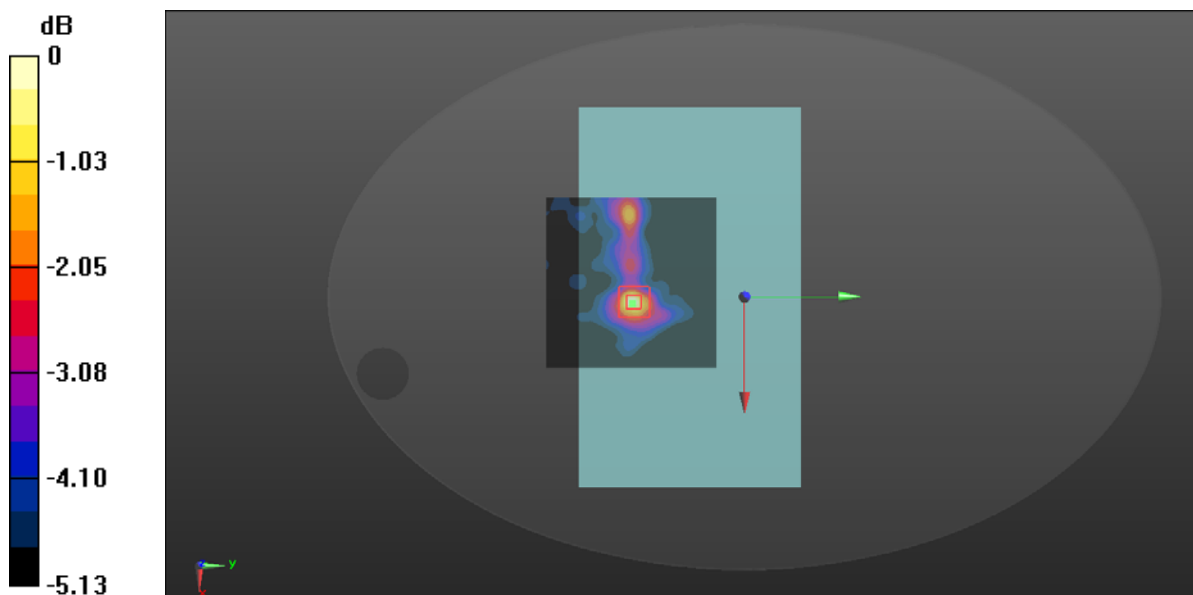
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.937 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.331 W/kg



0 dB = 0.331 W/kg = -4.80 dBW/kg

Plot 59#:5.2G Wi-Fi0 Mode A _Handheld Front_Low _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.505$ S/m; $\epsilon_r = 36.213$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5180 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

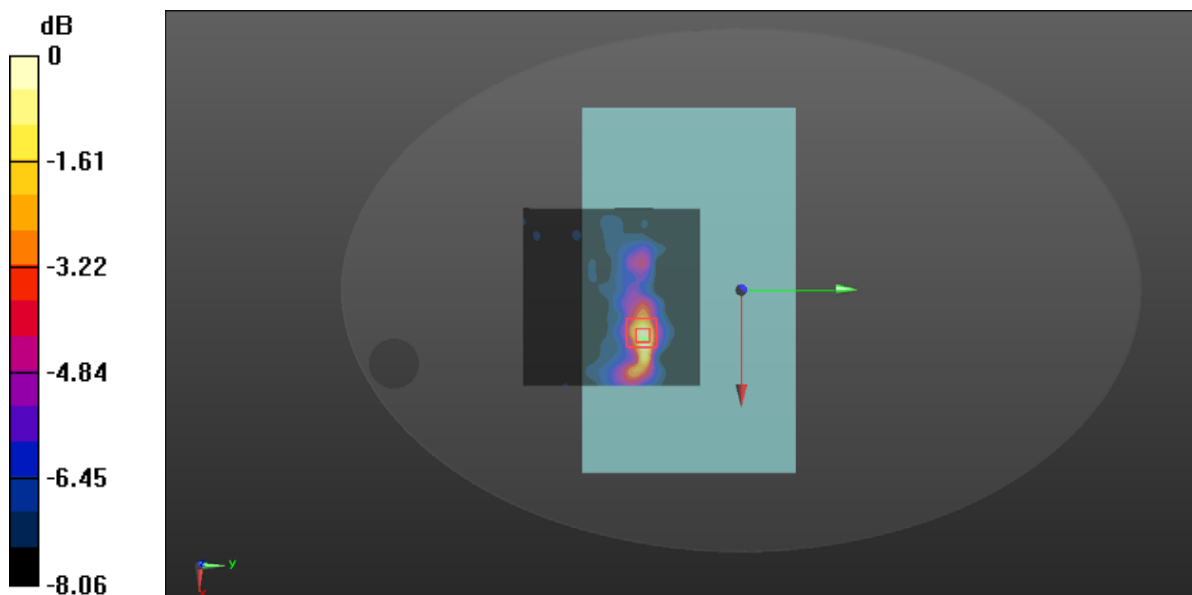
Zoom Scan (6x6x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.457 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.999 W/kg



0 dB = 0.999 W/kg = -0.00 dBW/kg

Plot 60#:5.2G Wi-Fi0 Mode A _Handheld Front _Mid _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

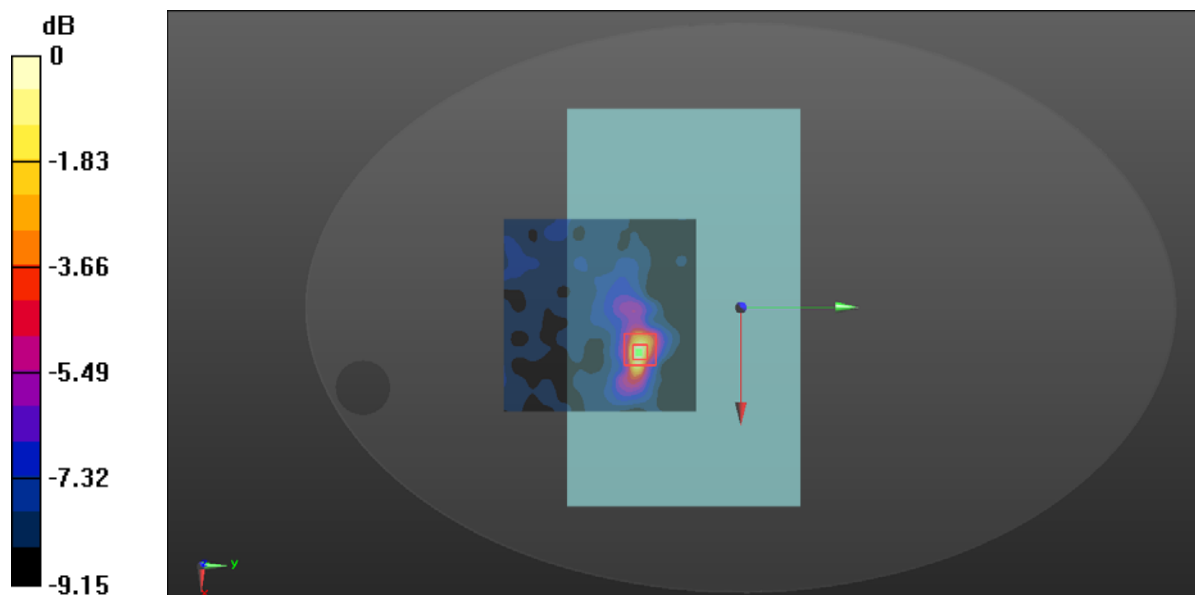
Zoom Scan (5x5x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.341 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.268 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

Plot 61#:5.2G Wi-Fi0 Mode A_Handheld Front _High _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.72$ S/m; $\epsilon_r = 35.763$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5240 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.661 W/kg

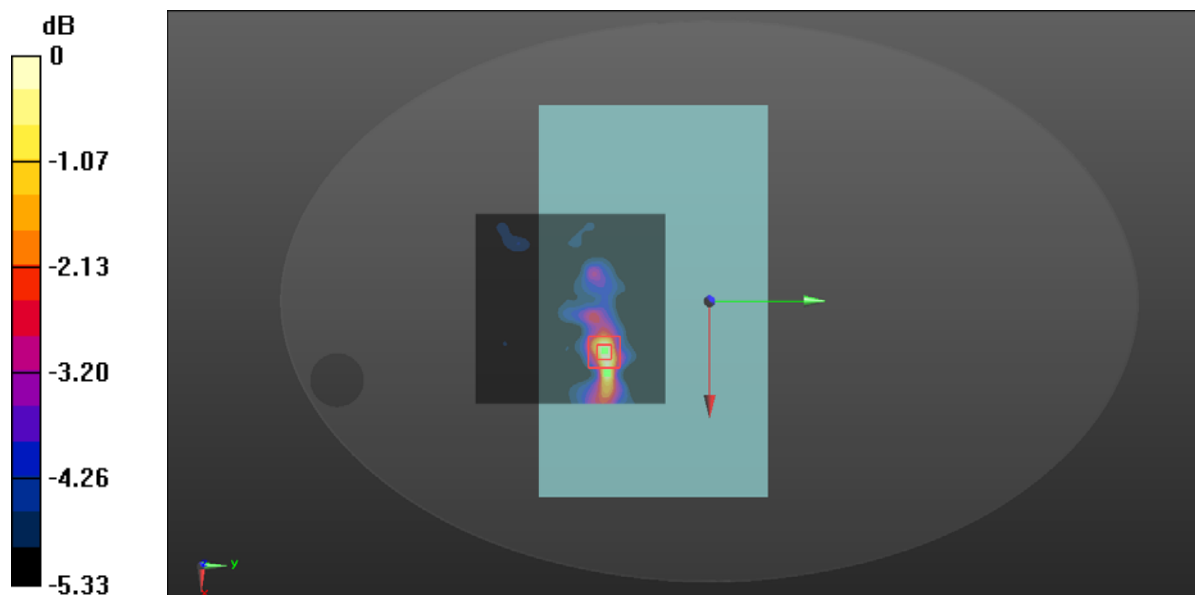
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.605 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.637 W/kg



0 dB = 0.637 W/kg = -1.96 dBW/kg

Plot 62#:5.2G Wi-Fi0 Mode A_Handheld Right_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0833 W/kg

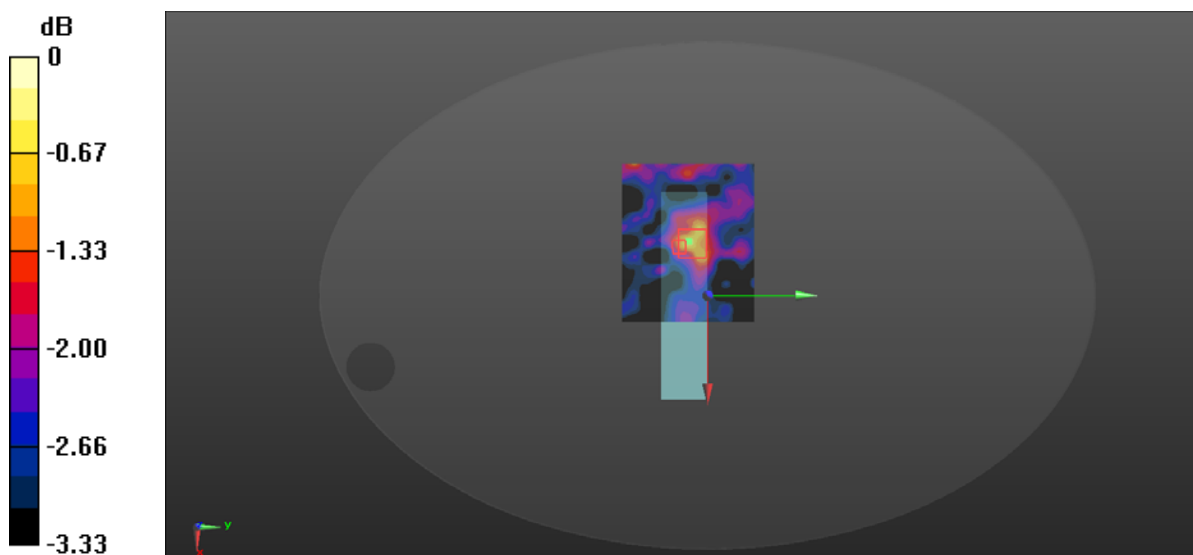
Zoom Scan (8x8x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 3.507 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.066 W/kg

Maximum value of SAR (measured) = 0.0929 W/kg



0 dB = 0.0929 W/kg = -10.32 dBW/kg

Plot 63#:5.2G Wi-Fi0 Mode A _Close to Body Back _Mid _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.224 W/kg

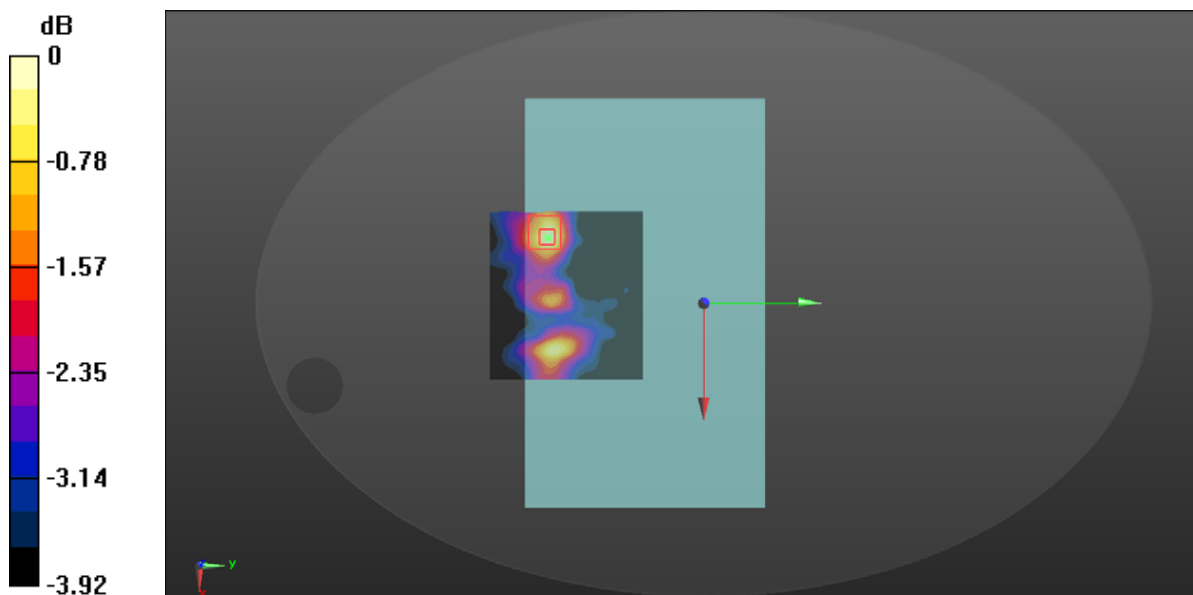
Zoom Scan (8x8x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.351 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.166 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.227 W/kg



0 dB = 0.227 W/kg = -6.44 dBW/kg

Plot 64#:5.2G Wi-Fi0 Mode A_ Close to Body Front_ Low _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.505$ S/m; $\epsilon_r = 36.213$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5180 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.224 W/kg

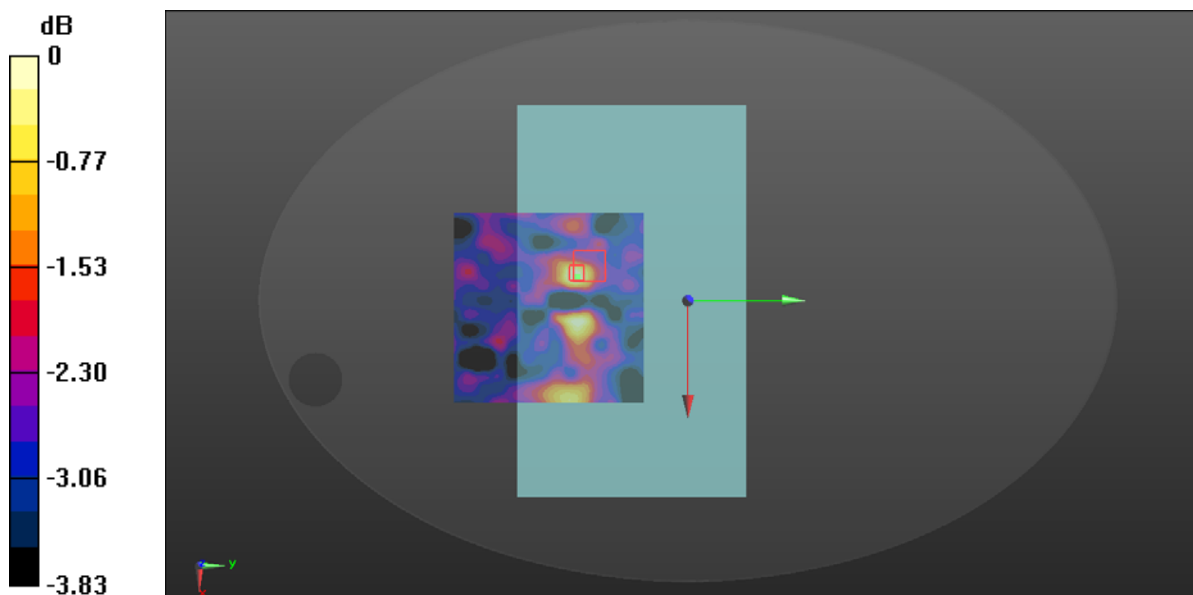
Zoom Scan (6x7x4)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.018 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.234 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 0.221 W/kg



0 dB = 0.221 W/kg = -6.56 dBW/kg

Plot 65#:5.2G Wi-Fi0 Mode A _ Close to Body Front _Mid _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.265 W/kg

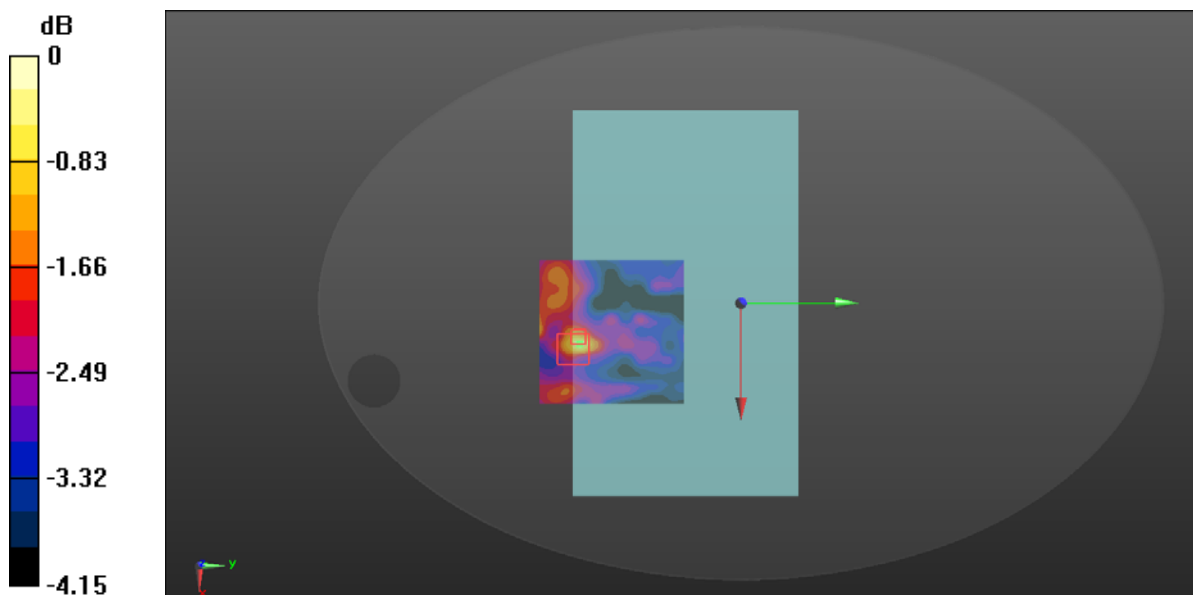
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.286 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.210 W/kg

Maximum value of SAR (measured) = 0.287 W/kg



0 dB = 0.287 W/kg = -5.42 dBW/kg

Plot 66#:5.2G Wi-Fi0 Mode A _ Close to Body Front _High _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5240 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.72$ S/m; $\epsilon_r = 35.763$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5240 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.217 W/kg

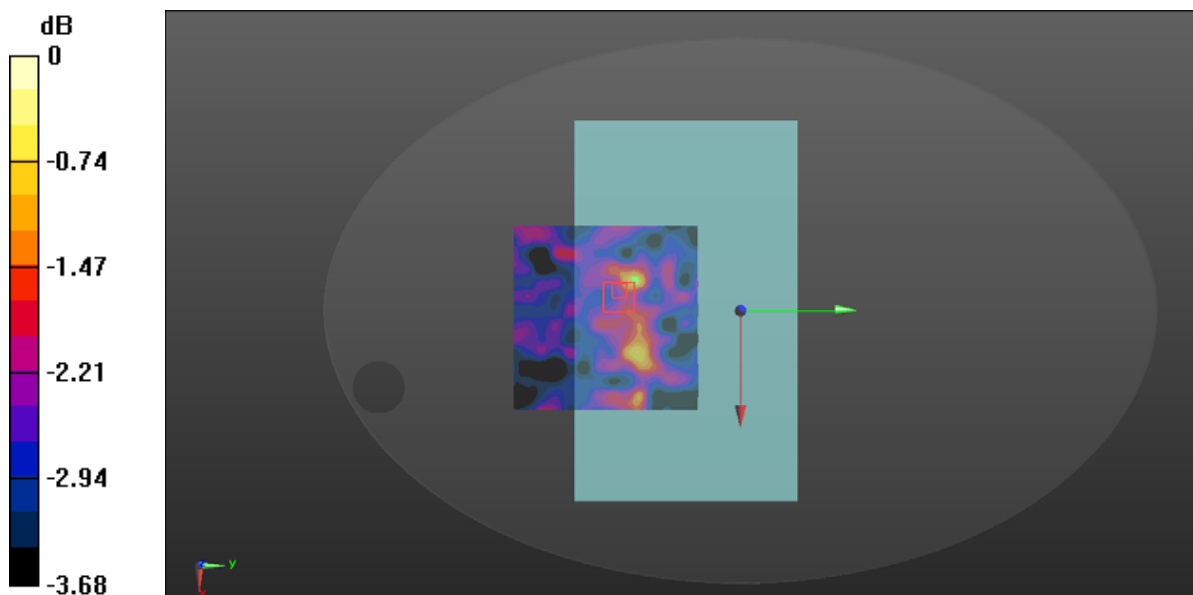
Zoom Scan (9x9x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.719 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.256 W/kg

SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.190 W/kg

Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg = -5.92 dBW/kg

Plot 67#: 5.2G Wi-Fi0 Mode A _ Close to Body Right _Mid _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.2G WiFi; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.583$ S/m; $\epsilon_r = 35.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(5.55, 5.55, 5.55) @ 5200 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.354 W/kg

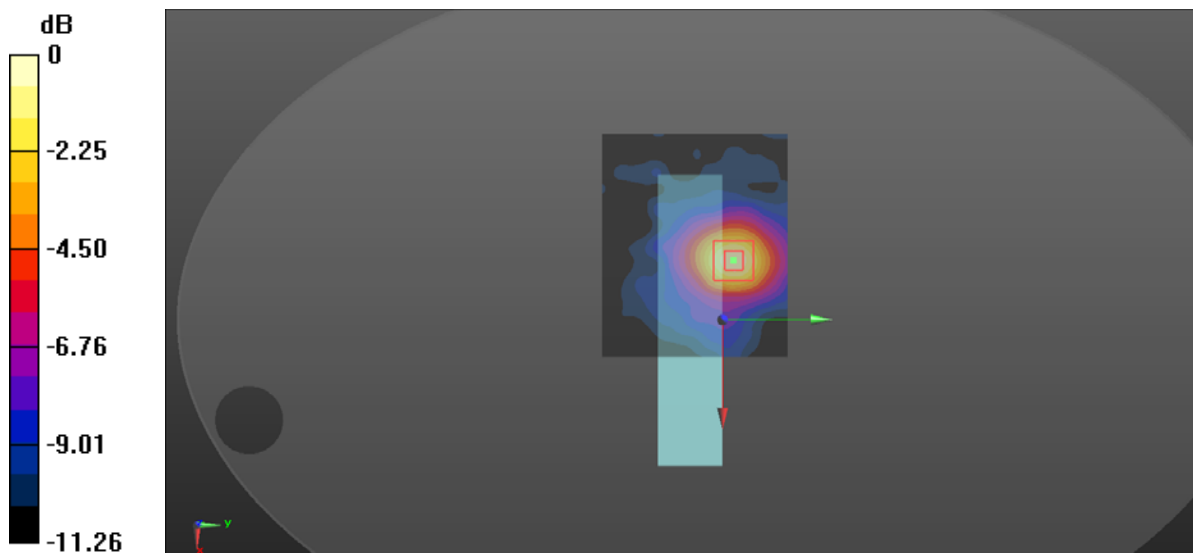
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 3.427 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.490 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.103 W/kg

Maximum value of SAR (measured) = 0.369 W/kg



0 dB = 0.369 W/kg = -4.33 dBW/kg

Plot 68#: 5.8G Wi-Fi0 Mode A _Handheld Back_ Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.723 W/kg

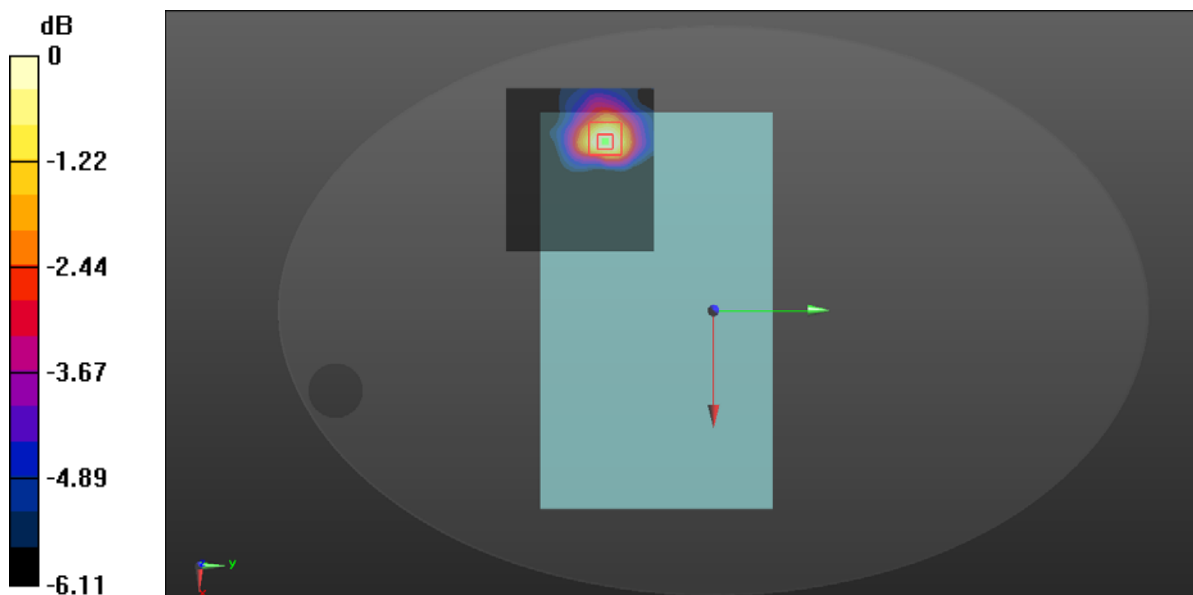
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.233 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.793 W/kg

SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.644 W/kg



0 dB = 0.644 W/kg = -1.91 dBW/kg

Plot 69#: 5.8G Wi-Fi0 Mode A _Handheld Front_ Low _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.334$ S/m; $\epsilon_r = 35.568$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5745 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.73 W/kg

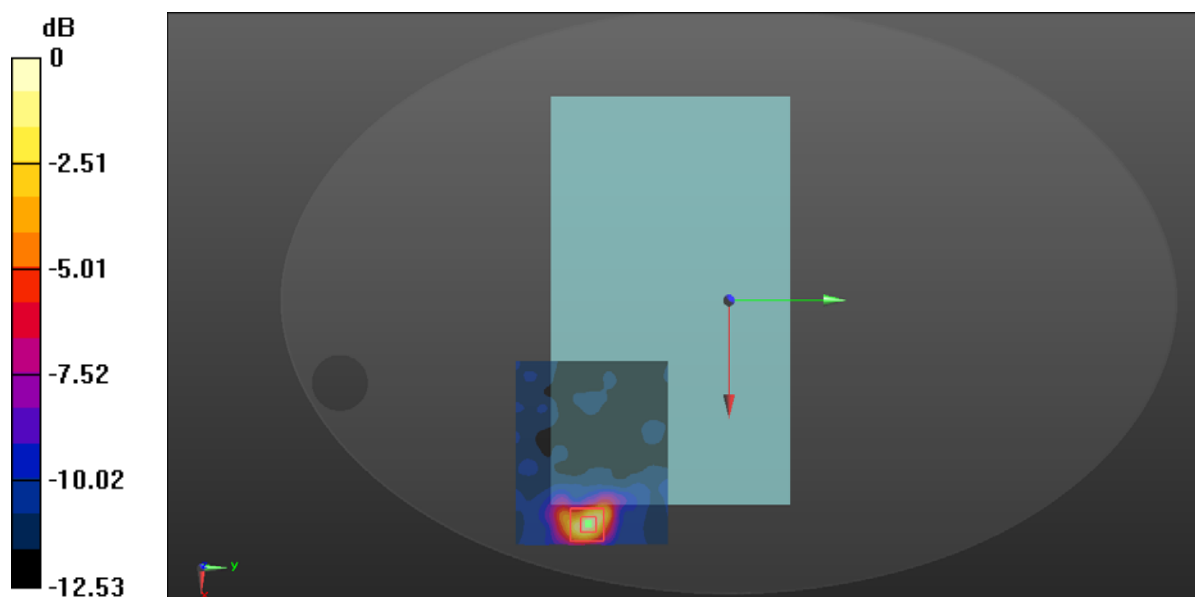
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 7.298 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.73 W/kg

SAR(1 g) = 1.39 W/kg; SAR(10 g) = 0.676 W/kg

Maximum value of SAR (measured) = 2.73 W/kg



0 dB = 2.73 W/kg = 4.36 dBW/kg

Plot 70#: 5.8G Wi-Fi0 Mode A_Handheld Front_Mid_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 3.12 W/kg

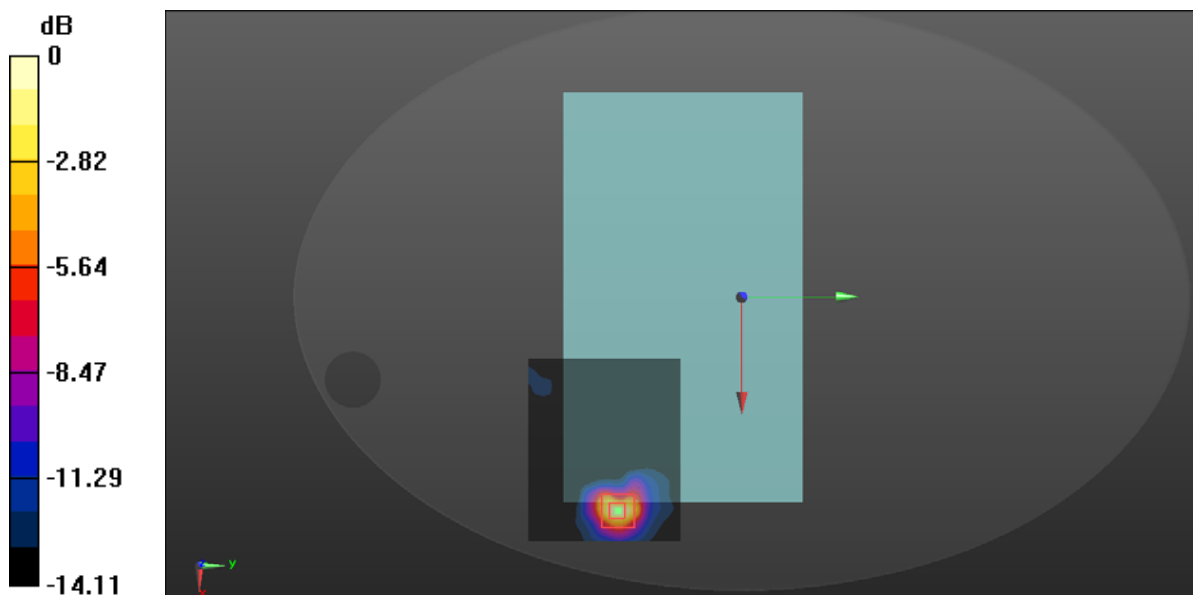
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.608 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 4.54 W/kg

SAR(1 g) = 1.43 W/kg; SAR(10 g) = 0.566 W/kg

Maximum value of SAR (measured) = 3.19 W/kg



0 dB = 3.19 W/kg = 5.04 dBW/kg

Plot 71#: 5.8G Wi-Fi0 Mode A_Handheld Front_High_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.503$ S/m; $\epsilon_r = 35.072$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5825 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 3.25 W/kg

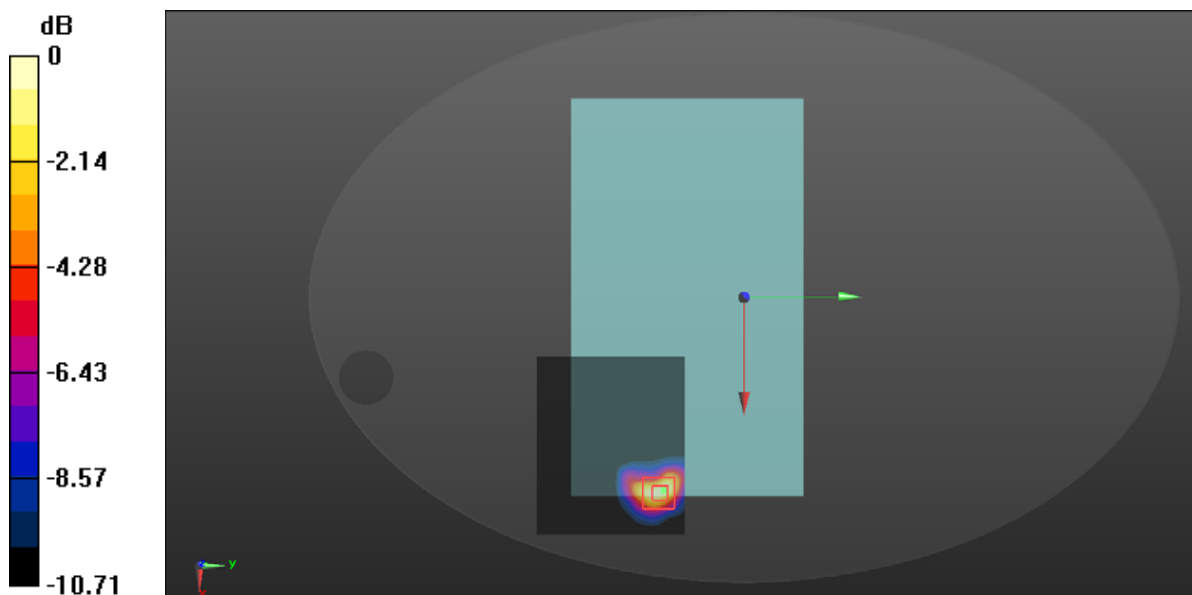
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 7.030 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 4.60 W/kg

SAR(1 g) = 1.7 W/kg; SAR(10 g) = 0.788 W/kg

Maximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.12 dBW/kg

Plot 72#: 5.8G Wi-Fi0 Mode A _Handheld Bottom_ Mid_ANT1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 5.416 \text{ S/m}$; $\epsilon_r = 35.401$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x111x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0882 W/kg

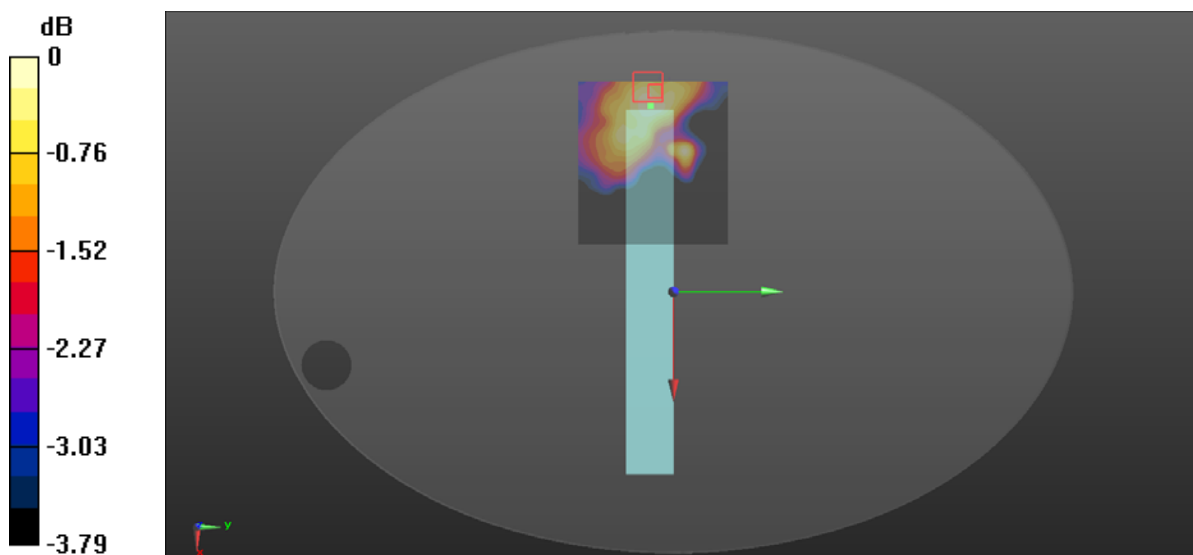
Zoom Scan (9x7x6)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.619 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.112 W/kg

SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.0884 W/kg



Plot 73#: 5.8G Wi-Fi0 Mode A _ Close to Body Back _ Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.234 W/kg

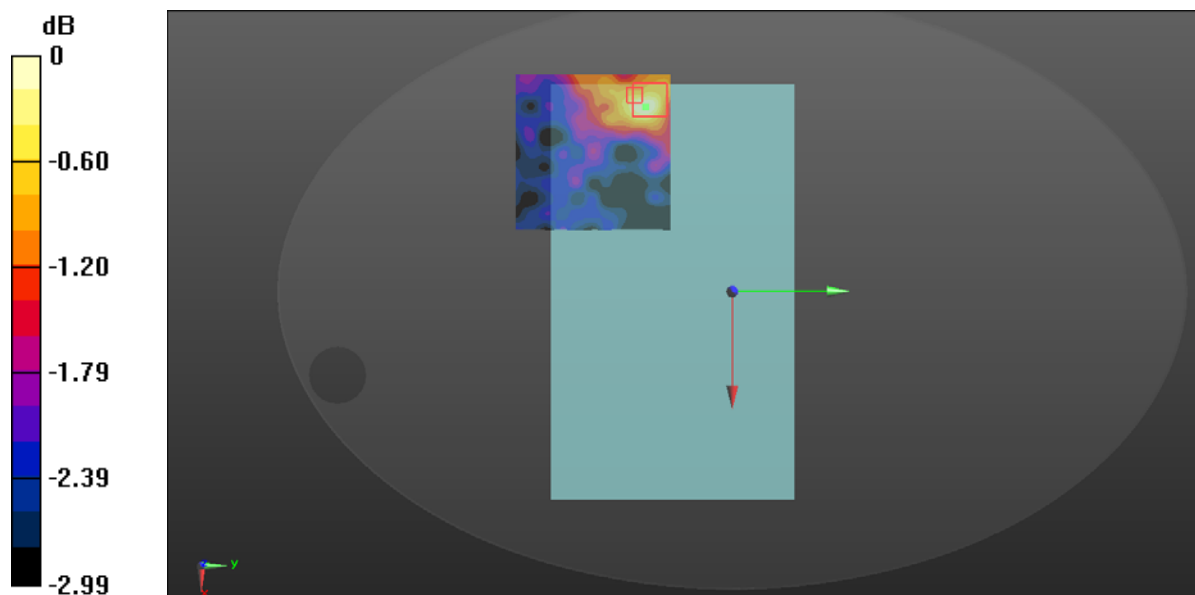
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.243 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.234 W/kg



0 dB = 0.234 W/kg = -6.31 dBW/kg

Plot 74#: 5.8G Wi-Fi0 Mode A _ Close to Body Front _Low _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.334$ S/m; $\epsilon_r = 35.568$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5745 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.845 W/kg

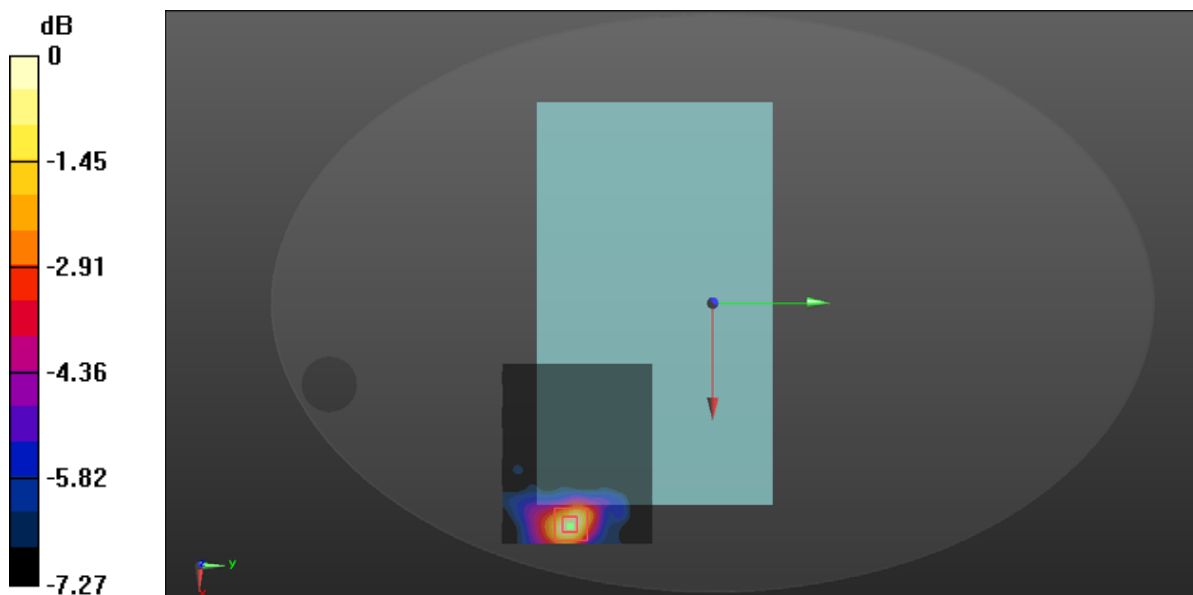
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.570 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.996 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.309 W/kg

Maximum value of SAR (measured) = 0.802 W/kg



0 dB = 0.802 W/kg = -0.96 dBW/kg

Plot 75#: 5.8G Wi-Fi0 Mode A _ Close to Body Front_ Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.606 W/kg

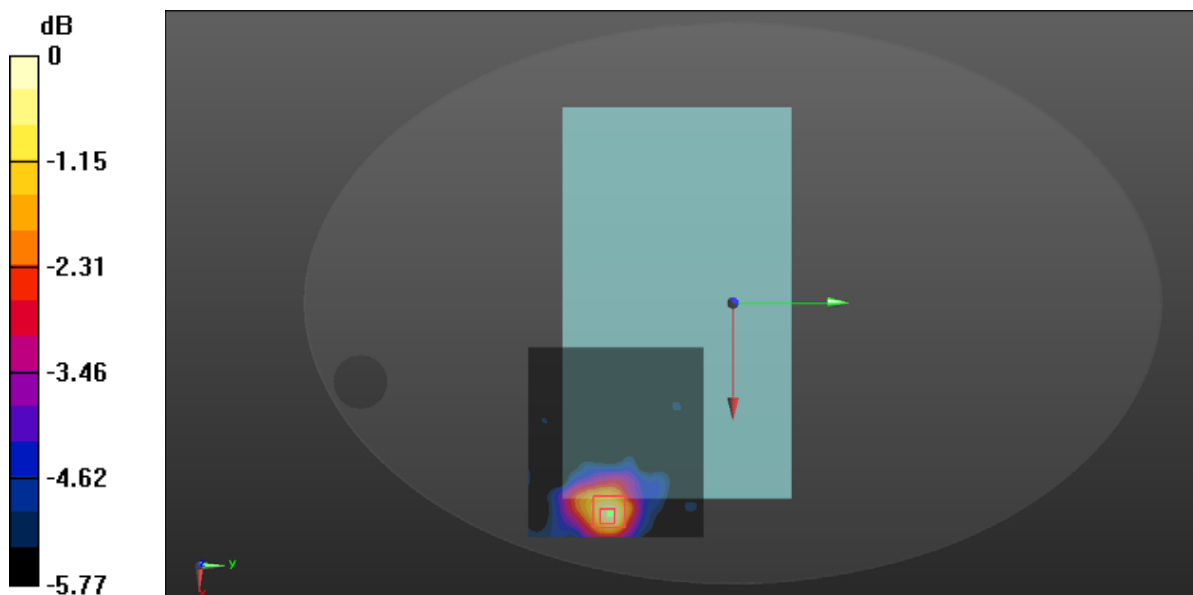
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.906 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.726 W/kg

SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.606 W/kg



0 dB = 0.606 W/kg = -2.18 dBW/kg

Plot 76#: 5.8G Wi-Fi0 Mode A_ Close to Body Front_ High_Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.503$ S/m; $\epsilon_r = 35.072$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5825 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.861 W/kg

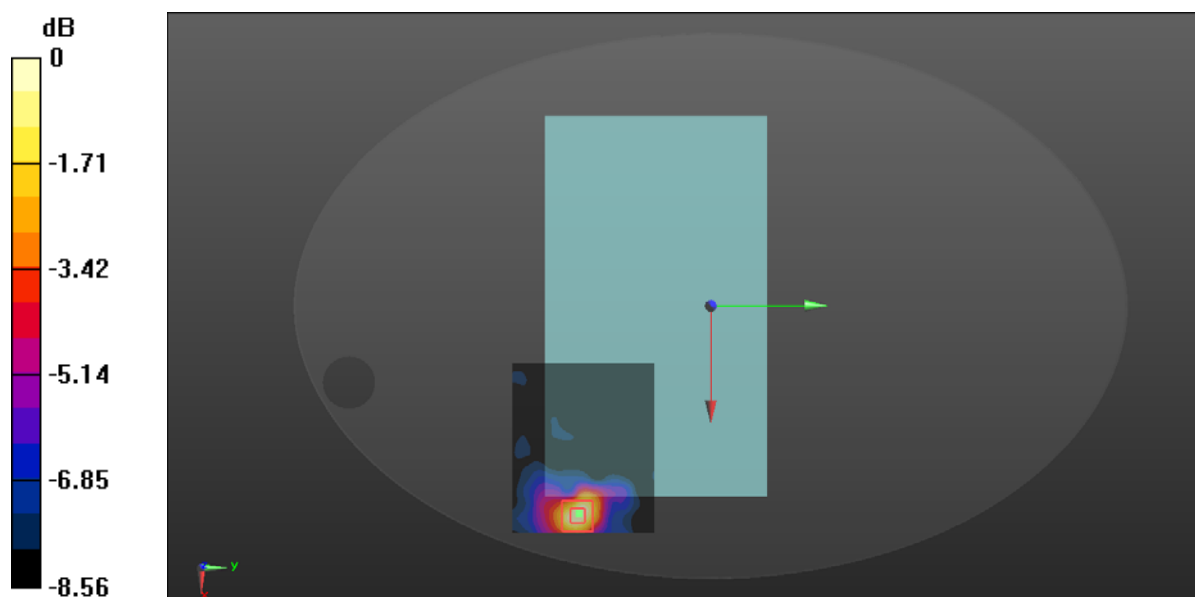
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.296 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.296 W/kg

Maximum value of SAR (measured) = 0.824 W/kg



0 dB = 0.824 W/kg = -0.84 dBW/kg

Test Plot 77#: 5.8G Wi-Fi0 Mode A _Close to Body Bottom_ Mid _Chain 0**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (131x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0399 W/kg

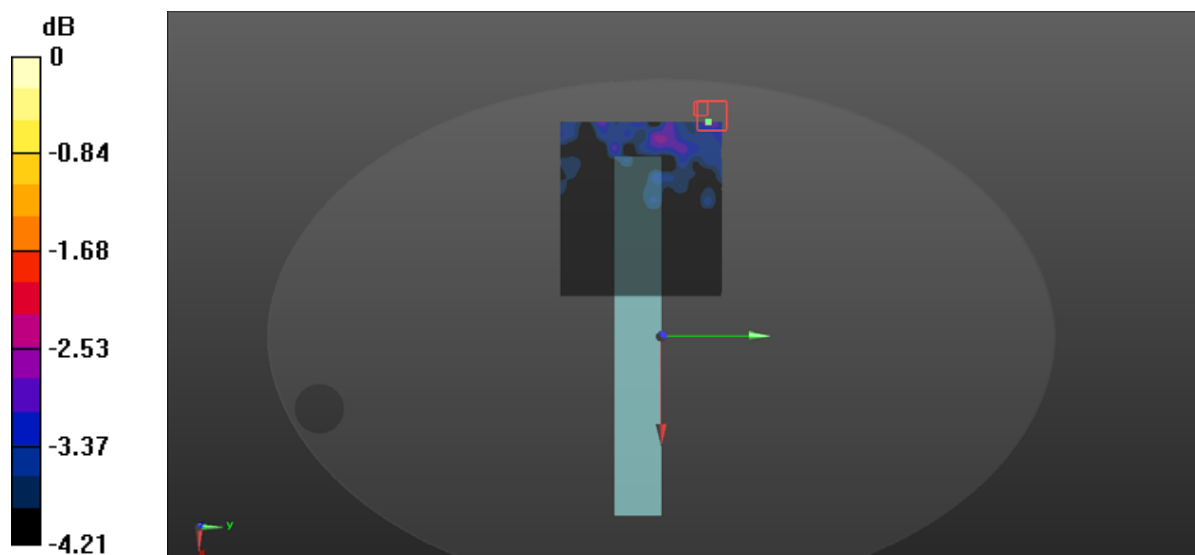
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.070 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0730 W/kg

SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.0731 W/kg



0 dB = 0.0731 W/kg = -11.36 dBW/kg

Plot 78#:5.8G Wi-Fi0 Mode A _Handheld Back_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.739 W/kg

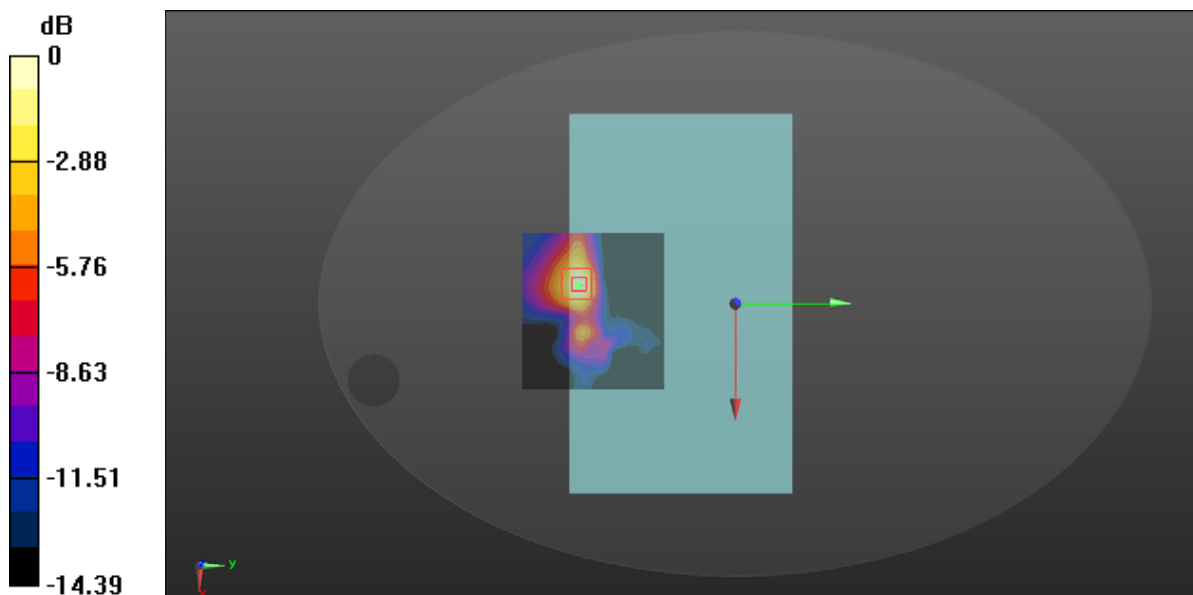
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 1.918 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.995 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.152 W/kg

Maximum value of SAR (measured) = 0.714 W/kg



0 dB = 0.714 W/kg = -1.46 dBW/kg

Plot 79#:5.8G Wi-Fi0 Mode A _Handheld Front _Low _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.334$ S/m; $\epsilon_r = 35.568$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5745 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.17 W/kg

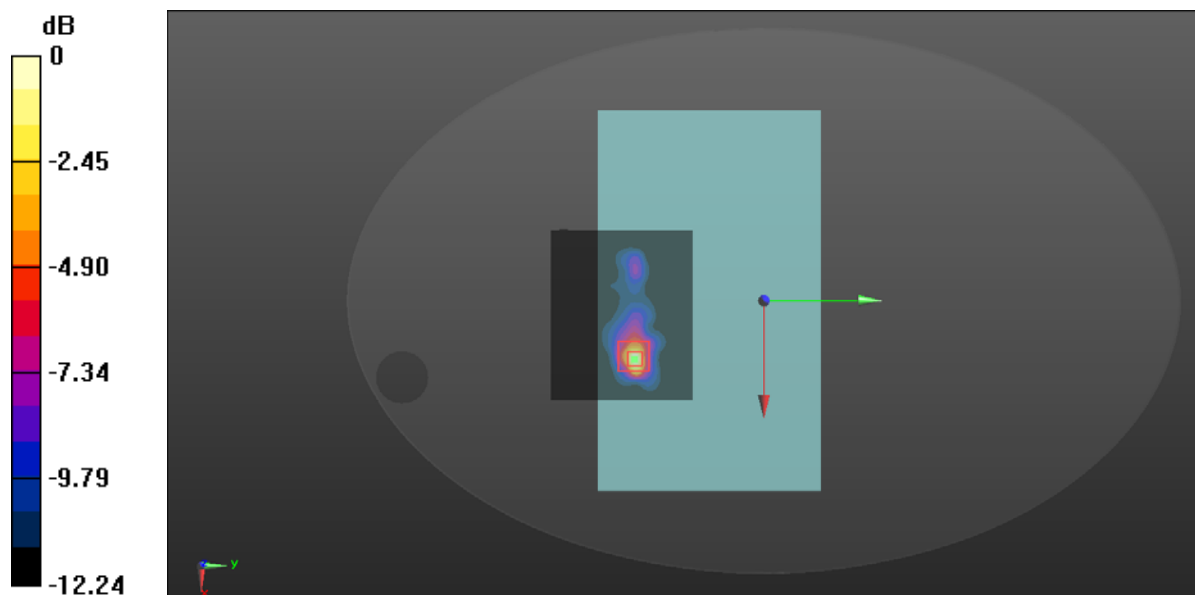
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 7.405 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 6.17 W/kg

SAR(1 g) = 2.01 W/kg; SAR(10 g) = 0.782 W/kg

Maximum value of SAR (measured) = 4.32 W/kg



0 dB = 4.32 W/kg = 6.35 dBW/kg

Plot 80#:5.8G Wi-Fi0 Mode A_Handheld Front_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.02 W/kg

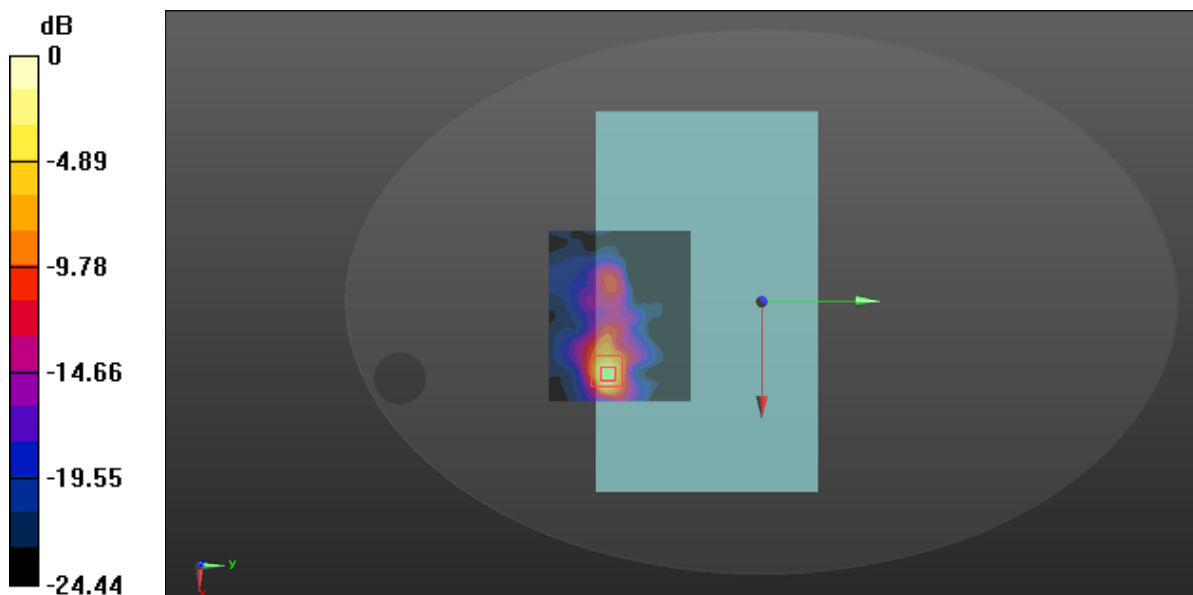
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 2.219 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 6.32 W/kg

SAR(1 g) = 1.74 W/kg; SAR(10 g) = 0.487 W/kg

Maximum value of SAR (measured) = 4.15 W/kg



0 dB = 4.15 W/kg = 6.18 dBW/kg

Plot 81#:5.8G Wi-Fi0 Mode A_Handheld Front_High_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.503$ S/m; $\epsilon_r = 35.072$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5825 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.06 W/kg

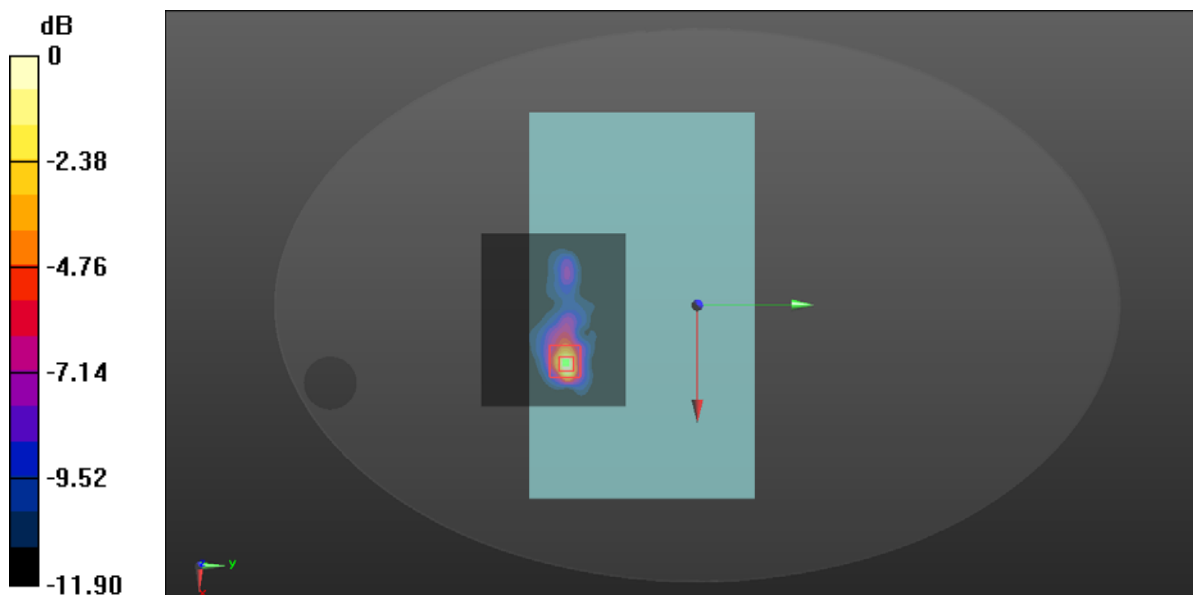
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 6.684 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 6.01 W/kg

SAR(1 g) = 1.91 W/kg; SAR(10 g) = 0.771 W/kg

Maximum value of SAR (measured) = 3.91 W/kg



0 dB = 3.91 W/kg = 5.92 dBW/kg

Plot 82#: 5.8G Wi-Fi0 Mode A _Handheld Right_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

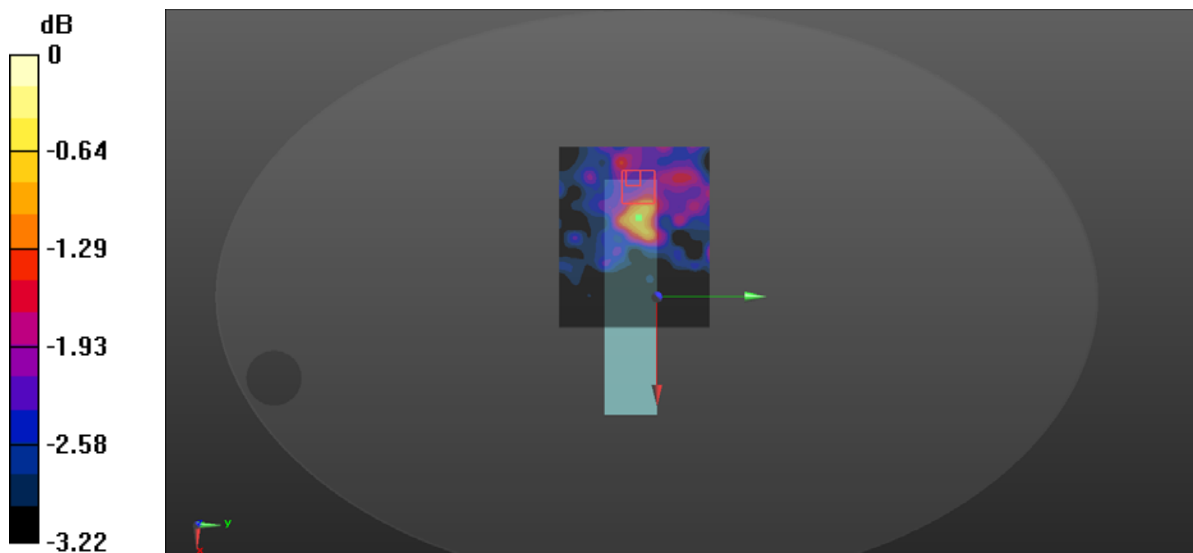
Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 5.416 \text{ S/m}$; $\epsilon_r = 35.401$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$ Maximum value of SAR (interpolated) = 0.130 W/kg **Zoom Scan (11x10x6)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$ Reference Value = 4.338 V/m ; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.151 W/kg **SAR(1 g) = 0.123 W/kg ; SAR(10 g) = 0.109 W/kg** Maximum value of SAR (measured) = 0.151 W/kg 0 dB = 0.151 W/kg = -8.21 dBW/kg

Plot 83#:5.8G Wi-Fi0 Mode A_ Close to Body Back_Mid_Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.617 W/kg

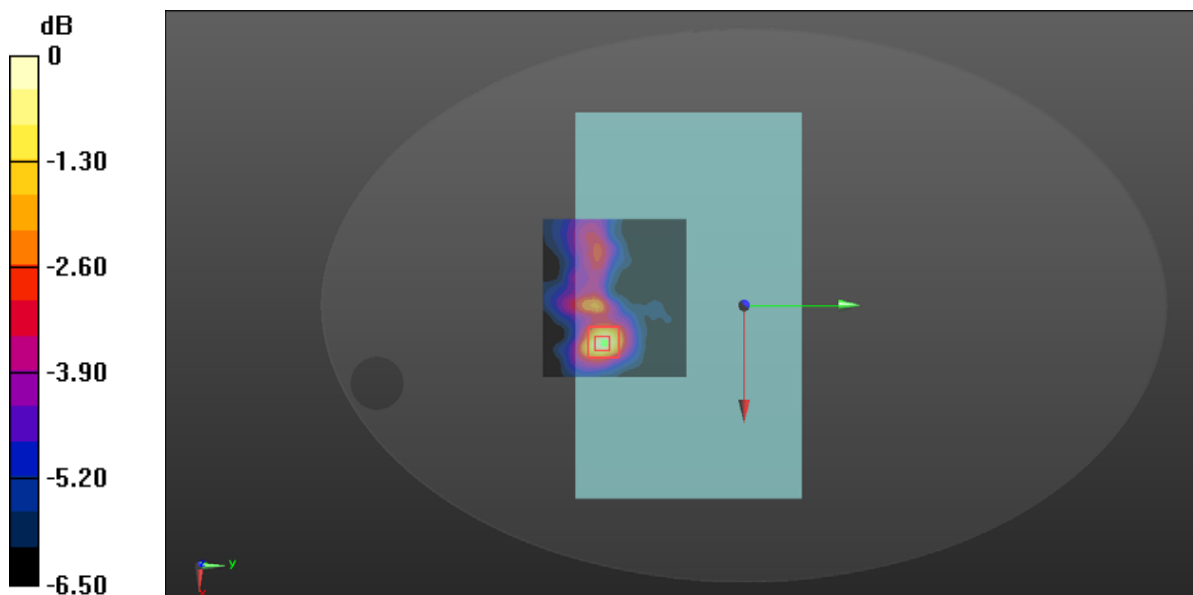
Zoom Scan (8x8x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.451 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.768 W/kg

SAR(1 g) = 0.385 W/kg; SAR(10 g) = 0.246 W/kg

Maximum value of SAR (measured) = 0.613 W/kg



0 dB = 0.613 W/kg = -2.13 dBW/kg

Plot 84#:5.8G Wi-Fi0 Mode A_ Close to Body Front_ Low _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.334$ S/m; $\epsilon_r = 35.568$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5745 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.782 W/kg

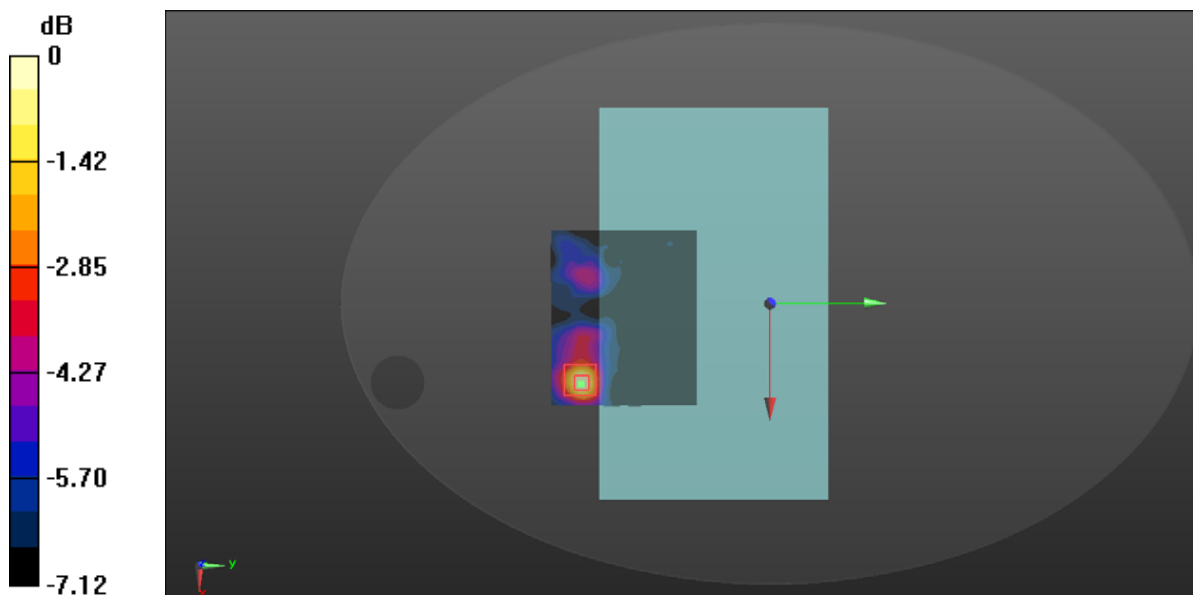
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.559 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.896 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 0.759 W/kg



0 dB = 0.759 W/kg = -1.20 dBW/kg

Plot 85#:5.8G Wi-Fi0 Mode A _ Close to Body Front _Mid _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.836 W/kg

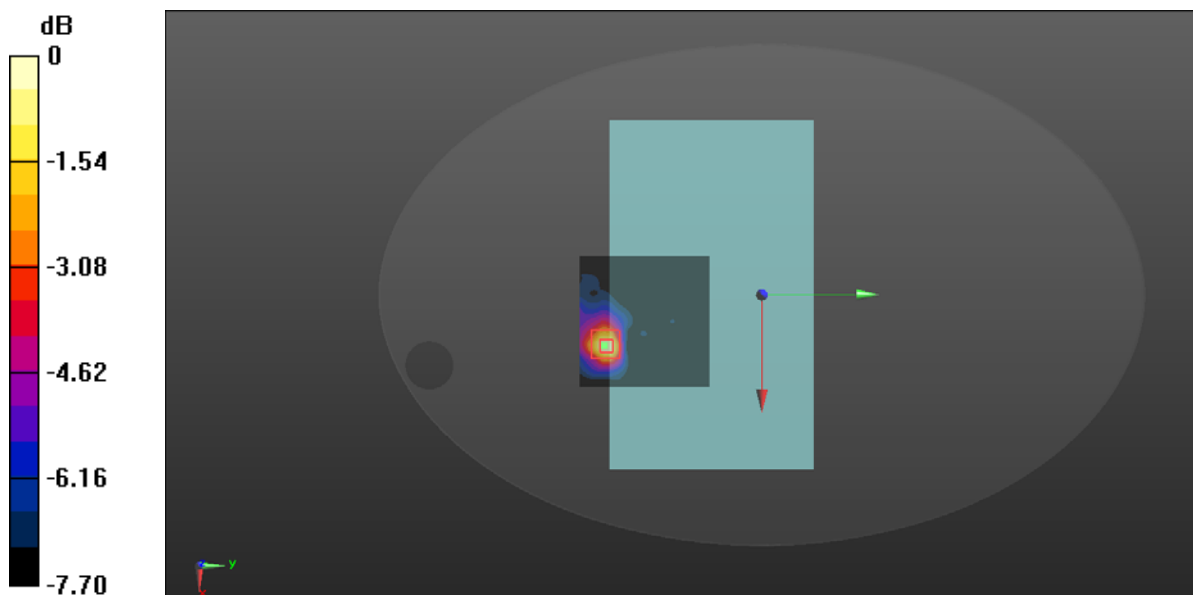
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 4.934 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (measured) = 0.812 W/kg



0 dB = 0.812 W/kg = -0.90 dBW/kg

Plot 86#:5.8G Wi-Fi0 Mode A _ Close to Body Front _High _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5825 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.503$ S/m; $\epsilon_r = 35.072$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5825 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.754 W/kg

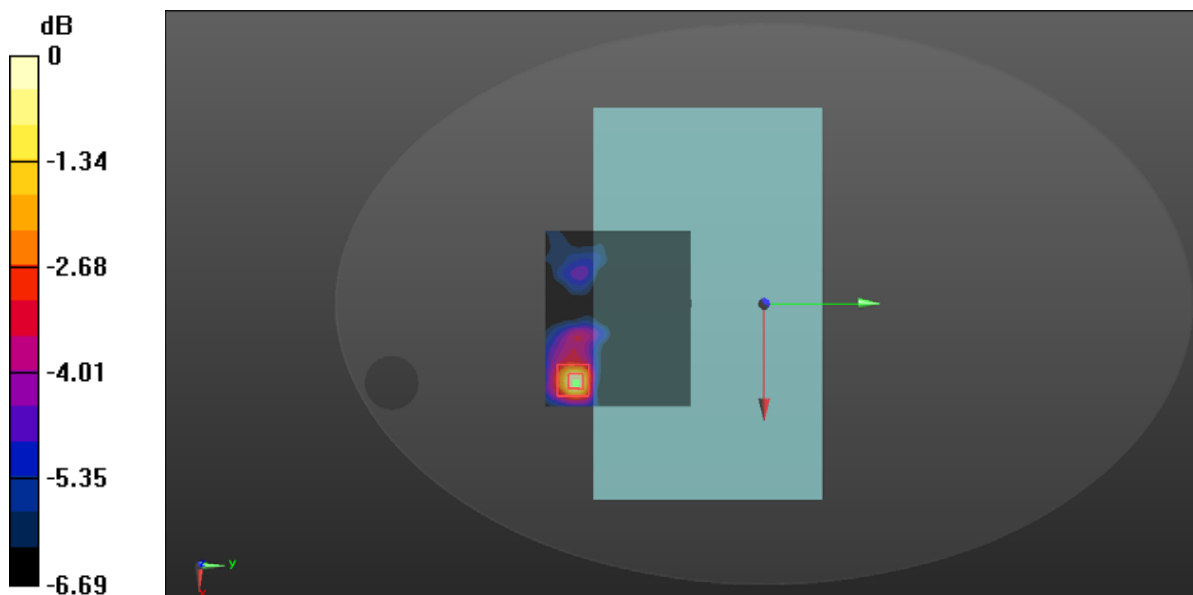
Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 5.544 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.905 W/kg

SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.294 W/kg

Maximum value of SAR (measured) = 0.737 W/kg



0 dB = 0.737 W/kg = -1.33 dBW/kg

Test Plot 87#: 5.8G Wi-Fi0 Mode A_ Close to Body Right _Mid _Chain 1**DUT: Autel Smart Controller; Type: EF9-2; Serial: SZ1210507-15794E-SA-S1**

Communication System: 5.8G Wi-Fi; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.416$ S/m; $\epsilon_r = 35.401$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(4.72, 4.72, 4.72) @ 5785 MHz; Calibrated: 2020/11/30
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2020/11/23
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (121x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0934 W/kg

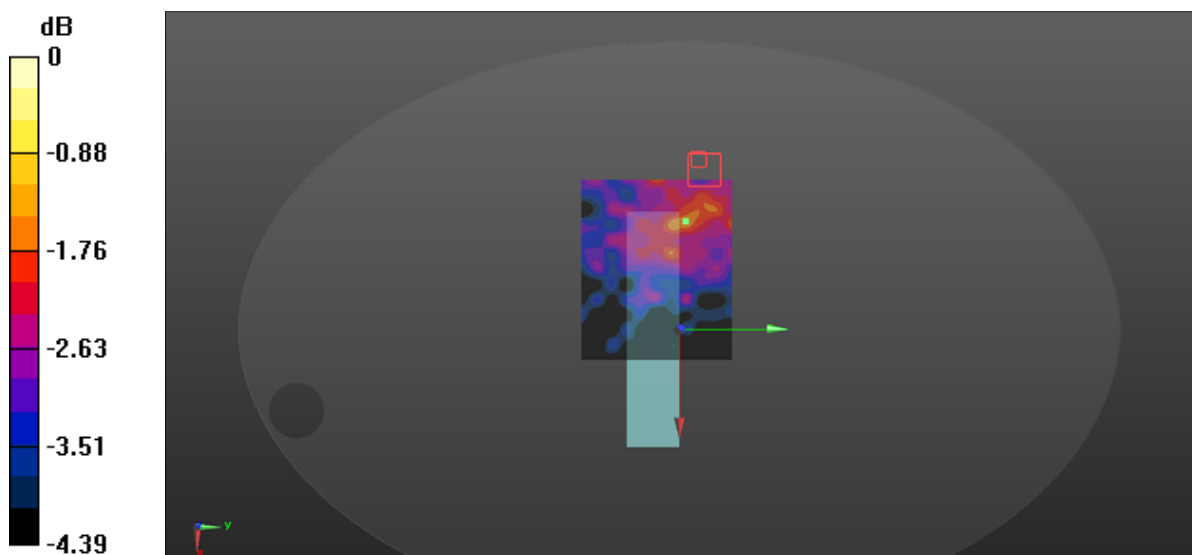
Zoom Scan (14x12x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 3.348 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.095 W/kg

Maximum value of SAR (measured) = 0.134 W/kg



0 dB = 0.134 W/kg = -8.73 dBW/kg

APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertainty $\pm$ %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty $\pm$ %, (1 g)	Standard uncertainty $\pm$ %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0	0	0.0	0.0
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Post-processing	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.3	23.9

Measurement uncertainty evaluation for IEC62209-1 SAR test

Source of uncertainty	Tolerance/ uncertainty $\pm$ %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty $\pm$ %, (1 g)	Standard uncertainty $\pm$ %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0	0	0.0	0.0
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Post-processing	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.3	23.9

APPENDIX B EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

APPENDIX C CALIBRATION CERTIFICATES

Please Refer to the Attachment.

******* END OF REPORT *******