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FCC SAR, APD & IPD EVALUATION REPORT FOR CERTIFICATION

Project No : NK-25-R-068**Dates of receipt :** February 27, 2025**Applicant :** Medit Corp.**Dates of Issue :** August 4, 20259F, 10F, 13F, 14F, 16F, 8, Yangpyeong-ro
25-gil, Yeongdeungpo-gu, Seoul, 07207,
Korea, Republic of**Test Site :**
Nemko Korea Co., Ltd.**FCC ID:****2A2QMMO3-I900M****Applicant :****Medit Corp.****Brand Name :****MEDIT****Model :**

MO3-i900M

Host Model Name:

-

EUT Type:

Intraoral Scanner

Classification:Digital Transmission System(DTS)
FCC Part 15 Spread Spectrum Transmitter(DSS)
Unlicensed National Information Infrastructure(UNII)
15E 6 GHz Low Power Indoor Client(6XD)**Date of Test:**

April 22, 2025 ~ May 9, 2025

Applied Standard:

FCC 47 CFR Part 2.1093

The device bearing the brand name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in IEEE 1528-2013 for FCC certification. The client should not use it to claim product endorsement by TAF or any government agencies. The test results in the report only apply to the tested sample.

I attest to the accuracy of data and all measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. This report is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.



Tested By : Yonghwan Kim

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Technical Manager

Revision History

Rev.	Issue Date	Revisions	Revised By
00	August 4, 2025	Initial issue	Wonhee Lee

TABLE OF CONTENTS

1. INTRODUCTION	5
1.1 TEST FACILITY	5
1.2 ACCREDITATION AND LISTING	5
2. EUT INFORMATION & TEST CONDITIONS	6
2.1 EUT INFORMATION	6
2.1.1 Variants Covered By This Report(Model Distinction)	8
2.2 OPERATION DURING TEST	8
2.2.1 Operating Environment	9
2.2.2 Table of test channels	9
2.2.3 Table of test power setting	10
2.2.4 Antenna Information	11
2.2.5 Additional Information Related to Testing	11
2.3 SUPPORT EQUIPMENT	12
2.4 MAXIMUM TARGET POWER AMONG PRODUCTION UNITS	12
2.5 SAR TEST CONSIDERATION	13
2.6 SAR TESTING EUT CONFIGURATION	14
2.7 ANTENNA LOCATION	14
3. TEST METHODOLOGY	15
4. SAR & POWER DENSITY MEASUREMENT SYSTEM	16
4.1 SAR MEASUREMENT SETUP	16
4.2 MEASUREMENT SYSTEM	16
4.2.1 SPEAG DASY8 System	16
4.2.2 SAR Probe	17
4.2.3 SAM Phantom	17
4.2.4 ELI Phantom	18
4.3 SIMULATING MIXTURE CHARACTERIZATION	19
4.4 DEVICE HOLDER FOR TRANSMITTERS	20
4.5 DEFINITION OF POWER DENSITY	21
4.6 POWER DENSITY MEASUREMENT	21
4.6.1 SPEAG DASY8 System	21
4.6.2 mmWave Probe (EUMmWVx)	22
4.6.3 mmWave Phantom & DUT holder	23
4.7 MEASUREMENT PROCEDURE	24
4.7.1 SAR Measurement Procedure	24
4.7.2 Power Density Measurement Procedure	26
5. RF EXPOSURE LIMITS	27
6. MEASUREMENT UNCERTAINTY & DECISION RULE	30
6.1 SAR MEASUREMENT UNCERTAINTY	30
6.2 DECISION RULE	30
6.3 ABSORBED POWER DENSITY MEASUREMENT UNCERTAINTY	30
6.4 POWER DENSITY MEASUREMENT UNCERTAINTY	31
7. TEST EQUIPMENTS	32
8. FCC MEASUREMENT PROCEDURES	33

8.1 GENERAL DEVICE SETUP.....	33
8.2 SAR PROCEDURES IN 2.4 GHZ.....	33
8.3 SAR TEST REQUIREMENTS FOR OFDM CONFIGURATION	33
8.4 INITIAL TEST POSITION SAR TEST REDUCTION PROCEDURE.....	34
8.5 SIMULTANEOUS TRANSMISSION SAR CONSIDERATIONS	34
8.6 ABSORBED POWER DENSITY CONVERSION	34
8.7 TOTAL FIELD AND POWER FLUX DENSITY RECONSTRUCTION	35
8.8 POWER FLUX DENSITY AVERAGING	35
9. OUTPUT POWER MEASUREMENT.....	36
9.1 MEASUREMENT PROCEDURES FOR OUTPUT POWER.....	36
9.2 CONDUCTED RF OUTPUT POWER	37
10. SYSTEM VERIFICATION.....	45
10.1 TISSUE VERIFICATION RESULTS.....	45
10.2 SYSTEM VERIFICATION TEST SETUP.....	48
10.3 SYSTEM VERIFICATION RESULTS	49
10.4 IPD SYSTEM VERIFICATION TEST SETUP	50
10.5 IPD SYSTEM VERIFICATION RESULTS	51
11. SAR, APD, IPD MEASUREMENT RESULTS.....	52
11.1 SAR MEASUREMENT RESULTS	53
11.2 APD MEASUREMENT RESULTS	55
11.3 IPD MEASUREMENT RESULTS	57
11.4 SAR MEASUREMENT VARIABILITY.....	58
11.5 ESTIMATED SAR.....	61
11.6 SAR SUMMATION ANALYSIS	62
11.7 TOTAL EXPOSURE RATIO ANALYSIS.....	63
12. CONCLUSION.....	64
APPENDIX A. PLOTS OF SAR RESULTS.....	65
APPENDIX B. PLOTS OF SYSTEM VERIFICATION	97
APPENDIX C. CALIBRATION REPORT OF THE PROBE.....	107
APPENDIX D. CALIBRATION REPORT OF THE DIPOLE ANTENNA.....	130

1. INTRODUCTION

1.1 Test facility

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2014), the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013) was used in determining radiated and conducted emissions emanating.

These measurement tests were conducted at **Nemko Korea Co., Ltd.**

The site address 165-51, Cheoin-Gu, Yongin-Si, Gyeonggi-Do 17042 Republic of Korea.

1.2 Accreditation and listing

Accreditation type		Accreditation number
	CAB Accreditation for DOC	Designation No. KR0026
	KOLAS Accredited Lab. (Korea Laboratory Accreditation Scheme)	Registration No. KT155
	Canada IC Registered site	Site No. 29506
	VCCI registration site(RE/CE/Telecom CE)	Member No. 2118
	EMC CBTL	TL124
	KCC(RRL)Designated Lab.	Registration No. KR0026

2. EUT INFORMATION & TEST CONDITIONS

2.1 EUT Information

Specifications:

EUT Type	Intraoral Scanner
Model Name	MO3-i900M
Brand Name	Medit Corp.
Frequency of Operation	<u>For DSS Band</u> 2 402 MHz to 2 480 MHz : BDR,EDR <u>For DTS Band</u> 2 402 MHz to 2 480 MHz : BLE 1M, 2M <u>For U-NII-1 Band</u> 5 210 MHz : 802.11ac,ax (80 MHz) <u>For U-NII-3 Band</u> 5 775 MHz : 802.11ac,ax (80 MHz) <u>For U-NII-5 Band</u> 5 925 MHz to 6 425 MHz : 802.11ax (160 MHz) <u>For U-NII-6 & U-NII-7 Band</u> 6 425 MHz to 6 525 MHz & 6 525MHz to 6 875MHz: 802.11ax (160 MHz) <u>For U-NII-8 Band</u> 6 875 MHz to 7 125 MHz : 802.11ax (160 MHz)
Maximum Average Output Power (Conducted)	<u>For DSS Band</u> BDR : 4.45 dBm EDR : 0.99 dBm <u>For DTS Band</u> BLE 1M : 3.65 dBm BLE 2M : 3.42 dBm <u>For U-NII-1 Band</u> 802.11ac(80 MHz) : 12.32 dBm 802.11ax(80 MHz) : 12.24 dBm <u>For U-NII-3 Band</u> 802.11ac(80 MHz) : 12.15 dBm 802.11ax(80 MHz) : 12.03 dBm <u>For U-NII-5 Band</u> 802.11ax(160 MHz) : 8.46 dBm <u>For U-NII-6 & U-NII-7 Band</u> 802.11ax(160 MHz) : 8.51 dBm <u>For U-NII-8 Band</u> 802.11ax(160 MHz) : 8.02 dBm
Modulations	GFSK, $\pi/4$ DQPSK, 8DPSK BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM

Highest 10g SAR Value (Reported)	2.016 W/kg	
Highest Simultaneous 10g SAR Value (Reported)	3.617 W/kg	
Highest Total Absorbed Power Density (Reported)	10.989 W/m ²	
Highest Total Incident Power Density (Reported)	5.611 W/m ²	
FCC Classification	Digital Transmission System (DTS) FCC Part 15 Spread Spectrum Transmitter(DSS) Unlicensed National Information Infrastructure(UNII) 15E 6 GHz Low Power Indoor Client(6XD)	
Channel Number	<u>For DTS Band</u> 2 402 MHz to 2 480 MHz : 40 ch <u>For DSS Band</u> 2 402 MHz to 2 480 MHz : 79 ch <u>For U-NII-1 Band</u> 802.11ac, ax (80 MHz) : 1 ch <u>For U-NII-3 Band</u> 802.11ac, ax (80 MHz) : 1 ch <u>For U-NII-5 Band</u> 802.11ax (160 MHz) : 3 ch <u>For U-NII-6 & U-NII-7 Band</u> 802.11ax (160 MHz) : 2 ch <u>For U-NII-7 & U-NII-8 Band</u> 802.11ax (160 MHz) : 2 ch	
Antenna Gain (peak)	INNO-AFP-0404-L (Ant 1)	INNO-AFP-0404-R (Ant 2)
	DTS : 2.95 dBi U-NII-1 : 2.70 dBi U-NII-3 : 4.58 dBi U-NII-5 : 4.79 dBi U-NII-6 : 4.26 dBi U-NII-7 : 4.11 dBi U-NII-8 : 4.69 dBi	DTS : 2.09 dBi U-NII-1 : 3.27 dBi U-NII-3 : 1.89 dBi U-NII-5 : 2.40 dBi U-NII-6 : 2.40 dBi U-NII-7 : 2.70 dBi U-NII-8 : 3.69 dBi
Antenna Setup	2TX / 2RX	
Remarks	-	

2.1.1 Variants Covered By This Report(Model Distinction)

No Comment

2.2 Operation During Test

The EUT is the transceiver which is WiFi/BT module supporting WLAN/Bluetooth mode.
The Laptop was used to control the EUT to transmit the wanted TX channel continuously by the testing program (Qualcomm Radio Control Toolkit_v4.0-00211) supported by manufacturer.

The EUT was tested at the lowest channel, middle channel and the highest channel with the maximum output power in accordance with the manufacturer's specifications. The worst data were recorded in the report.

For this EUT, SAR testing was performed by applying a mirror cap(instead of butt cap), which is installed on the top of the EUT during actual use conditions.

2.2.1 Operating Environment

Parameters	Recording during test	Accepted deviation
Ambient temperature	(21.6 ~ 23.4) °C	(18.0 ~ 25.0) °C
Relative Humidity	(38.4 ~ 50.5) %	(30.0 ~ 70.0) %

2.2.2 Table of test channels

Frequency band	Modulation	Test Channel (CH)	Frequency (MHz)
2 402 ~ 2 480 MHz	GFSK, π /4DQPSK, 8DPSK	0	2 402
		39	2 441
		78	2 480
	LE 1 Mbps, LE 2Mbps	0	2 402
		19	2 440
		39	2 480
U-NII-1	802.11ac, ax(80 MHz)	42	5 210
U-NII-3	802.11ac, ax(80 MHz)	155	5 775
U-NII-5	802.11ax(160 MHz)	15	6 025
		47	6 185
		79	6 345
U-NII-6 & U-NII-7	802.11ax(160 MHz)	111	6 505
U-NII-7	802.11ax(160 MHz)	143	6 665
U-NII-7 & U-NII-8	802.11ax(160 MHz)	175	6 825
U-NII-8	802.11ax(160 MHz)	207	6 985

2.2.3 Table of test power setting

Frequency [MHz]	Mode	Power setting Level (SISO)	Power setting Level (MIMO)
2 402 ~ 2 480	GFSK	8	N/A
	$\pi/4$ DQPSK	8	N/A
	8DPSK	8	N/A
	LE 1Mbps	Default	N/A
	LE 2Mbps	Default	N/A
5 210	802.11ac VHT80	N/A	8.5
	802.11ax HE80	N/A	8.5
5 775	802.11ac VHT80	N/A	8.5
	802.11ax HE80	N/A	8.5
6 025	802.11ax HE160	N/A	5.5
6 185	802.11ax HE160	N/A	5.5
6 345	802.11ax HE160	N/A	5.5
6 505	802.11ax HE160	N/A	5.5
6 665	802.11ax HE160	N/A	5.5
6 825	802.11ax HE160	N/A	5.5
6 985	802.11ax HE160	N/A	5.5

2.2.4 Antenna Information

Frequency band	Mode	Data rate	Antenna TX mode
2.4 GHz	BDR, EDR	All	■ 1TX, □ 2TX
	LE	1 Mbps	■ 1TX, □ 2TX
		2 Mbps	■ 1TX, □ 2TX
U-NII-1	802.11ac (80MHz)	MCS 0 ~ MCS 9	□ 1TX, ■ 2TX
	802.11ax (80MHz)	MCS 0 ~ MCS 11	□ 1TX, ■ 2TX
U-NII-3	802.11ac (80MHz)	MCS 0 ~ MCS 9	□ 1TX, ■ 2TX
	802.11ax (80MHz)	MCS 0 ~ MCS 11	□ 1TX, ■ 2TX
U-NII-5	802.11ax (160MHz)	MCS 0 ~ MCS 11	□ 1TX, ■ 2TX
U-NII-6	802.11ax (160MHz)	MCS 0 ~ MCS 11	□ 1TX, ■ 2TX
U-NII-7	802.11ax (160MHz)	MCS 0 ~ MCS 11	□ 1TX, ■ 2TX
U-NII-8	802.11ax (160MHz)	MCS 0 ~ MCS 11	□ 1TX, ■ 2TX

2.2.5 Additional Information Related to Testing

This EUT does not support NFC function.

SAR testing was performed with a device-to-phantom separation distance of 0 mm according to KDB 447498 requirements.

SAR testing were performed for each dimension.

2.3 Support Equipment

EUT	Medit Corp. Model : MO3-i900M	S/N: N/A
Laptop computer	HP Model : TPN-Q287	S/N : 5CD351M0MC
a.c.-d.c. Adaptor	HP Model : TPN-C14 0.75 m unshielded power cable	S/N : L25296-002 (HP Part No.)

2.4 Maximum Target Power among production units

Tune up tolerance is specified in operational description.

SAR values were scaled to the maximum tune-up power to determine compliance per KDB Publication 447498 D04 Interim General RF Exposure Guidance v01.

Band	Mode	Nominal Power (dB m)	Maximum Power (dB m)
DSS	BDR	4	6
	EDR	2	2
DTS	LE 1M	3	5
	LE 2M	3	5
U-NII-1	802.11ac(80M)	11	13
	802.11ax(80M)	11	13
U-NII-3	802.11ac(80M)	11	13
	802.11ax(80M)	11	13
U-NII-5	802.11ax(160M)	7	9
U-NII-6	802.11ax(160M)	7	9
U-NII-7	802.11ax(160M)	7	9
U-NII-8	802.11ax(160M)	7	9

This device of tune-up tolerance is ± 2 dB.

2.5 SAR Test Consideration

Per FCC KDB 447498 D04 Interim General RF Exposure Guidance v01, SAR-based exemption threshold for distance ≤ 20 cm is defined by the following equation.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

f is in GHz.

d is the separation distance (cm).

Because the minimum separation distance was assumed to be 5 mm, the equation is used $ERP_{20 \text{ cm}} (d/20 \text{ cm})^x$.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

According to the FCC KDB 447498 D04 Interim General RF Exposure Guidance v01 Appendix B.2 Table, All of WLAN modes are required to SAR testing. Refer to the following table.

When 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

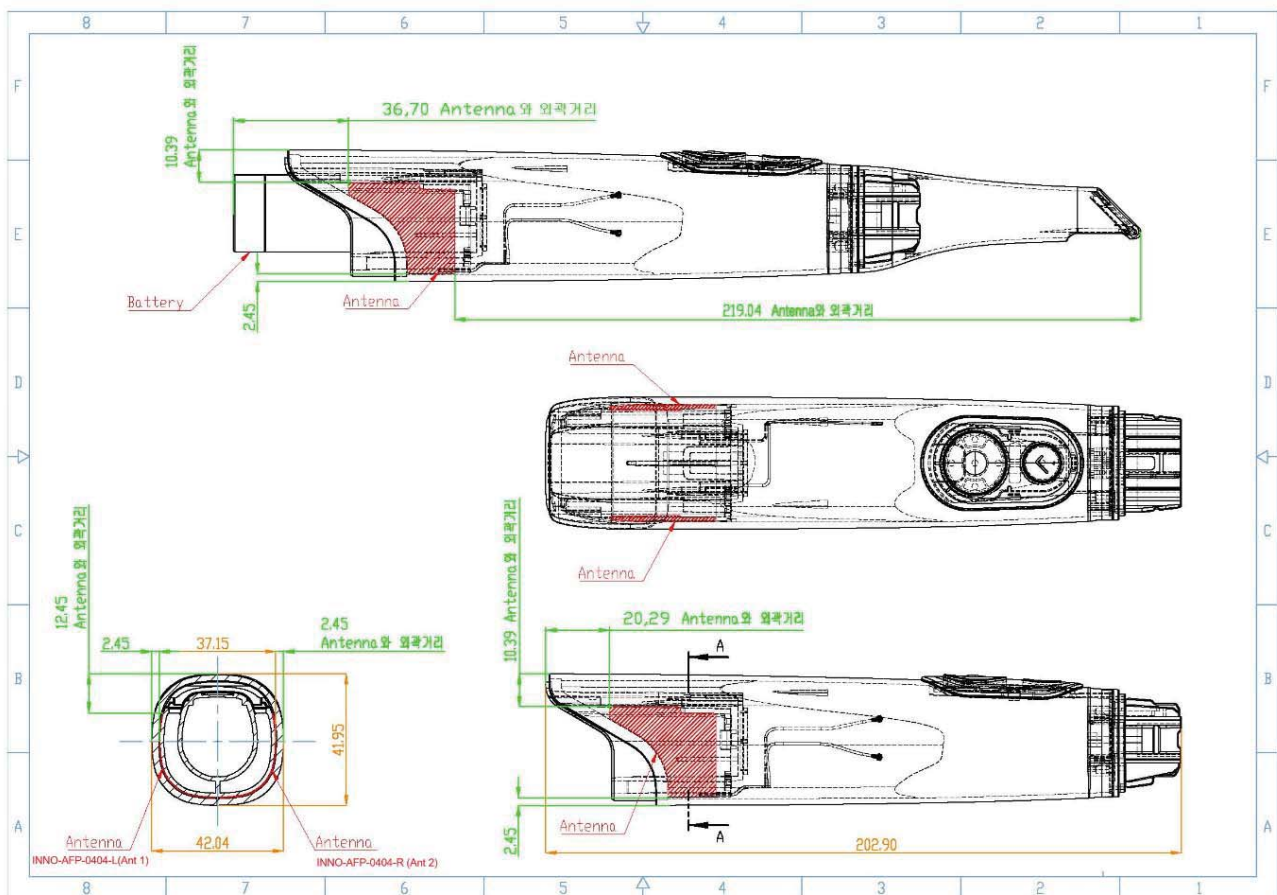
Band	Mode	Result (dBm)	Result (mW)	P_{th} (mW) @10g	Required to FCC SAR test
DSS	BDR_@2 402MHz	4.45	2.79	6.97	No
	EDR_@2 402MHz	0.99	1.26	6.97	No
DTS	LE 1M_@2 402MHz	3.65	2.32	6.97	No
	LE 2M_@2 442MHz	3.42	2.20	6.88	No
UNII-1	802.11ac80 mode_@5 210MHz	12.32	17.06	3.75	Yes
	802.11ax80 mode_@5 210MHz	12.24	16.75	3.75	Yes
UNII-3	802.11ac80 mode_@5 775MHz	12.15	16.41	3.45	Yes
	802.11ax80 mode_@5 775MHz	12.03	15.96	3.45	Yes

2.6 SAR testing EUT configuration

Device Type	Band/Mode	Device edge for SAR Testing					
		Front	Back	Left edge	Right edge	Top	Bottom
Intraoral Scanner	BT,BLE	N/A	N/A	N/A	N/A	N/A	N/A
	WLAN	Yes	Yes	Yes	Yes	N/A	N/A

When SAR measurement is necessary for hand-held devices that do not transmit while at the head or torso, a flat phantom may be used. To assess this type of device, the device shall be placed directly against the flat phantom, for the sides of the device that are in contact with the hand for the intended use

2.7 Antenna Location



Ant	Ant model	Top	Bottom	Front	Back	Left	Right
Ant 1	INNO-AFP-0404-L	219.04 mm	36.70 mm	2.45 mm	10.39 mm	2.45 mm	2.45 mm
Ant 2	INNO-AFP-0404-R	219.04 mm	36.70 mm	2.45 mm	10.39 mm	2.45 mm	2.45 mm

3. TEST METHODOLOGY

1. FCC 47 CFR Part 2 (2.1093)
2. IEC/IEEE 62209-1528:2020
3. IEEE 1528-2013
4. FCC KDB Publication 447498 D04v01(Interim General RF Exposure Guidance)
5. FCC KDB Publication 248227 D01v02r02 (SAR Guidance for 802.11 Transmitter)
6. FCC KDB Publication 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
7. FCC KDB Publication 865664 D02 SAR reporting v01r02
8. 2016 October TCB Workshop Notes (RF Exposure Procedures, Bluetooth Duty factor)
9. 2019 April TCB Workshop Notes (Tissue Simulating Liquids)
10. SPEAG DASY8 System Handbook

4.1 SAR Measurement Setup

4.2 Measurement System

The DASY8 system uses the high-precision industrial robots TX2-90XL from Staubli. The robots are controlled by the Staubli CS9c controllers. The Robot arm is an essentially maintenance-free 6-axis robot arm equipped with servomotors coupled to safe digital absolute encoders for each joint axis. The DASY8 measurement server handles all time critical tasks such as acquisition of measurement data, detection of phantom surface, control of robot movements, supervision of safety features. The Electrical to Optical Converter(EOC8) supports several functionalities that exchange between the DAE and the measurement server, power supply for DAE4IP and MAGPy-ES, touch/collision detection for applications that do not require a DAE4, data acquisition based on ethernet protocol, device positioner for DASY8. The DAE is used to acquire the probe sensor voltages and transfer them to the DASY8 measurement server and to report mechanical surface detection and probe collisions.

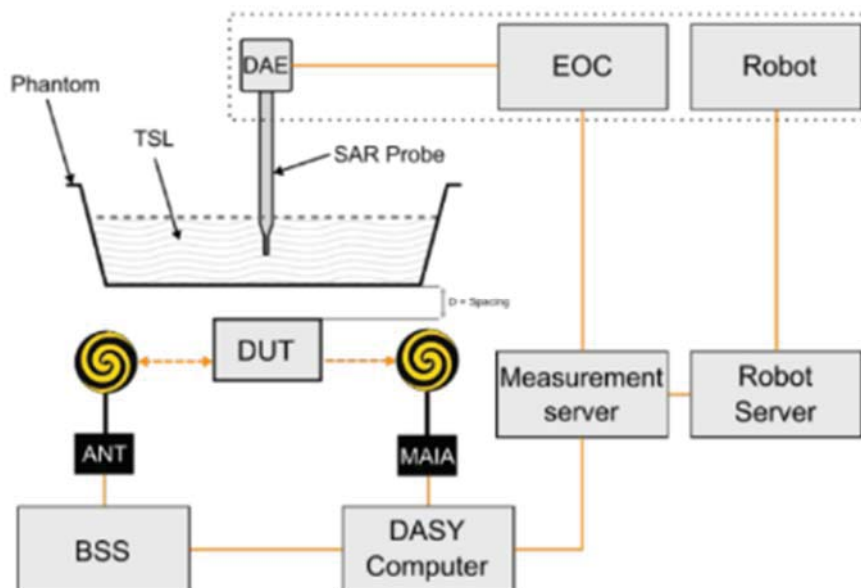


Figure 4.2.1 Typical DASY8 measurement procedure

4.2.2 SAR Probe

The SAR measurement were conducted with dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates.

The probe is equipped with ant optical multi-fiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface.

Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches a System maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero.

The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY8 software reads the reflection during a software approach and looks for the maximum using a 2nd order fitting.

The approach is stopped at reaching the maximum.

Model	EX3DV4 (Refer to Appendix)	
Frequency	4 MHz to 10 GHz	
Dynamic Range	10 μ W/g $\rightarrow$ 100 mW/g	
Linearity	$< \pm 0.2$ dB	
Hemispherical Isotropy	< 0.5 dB	
Position Precision	< 0.2 mm	
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	

4.2.3 SAM Phantom

The shells have a very tight tolerance of less than 0.2 mm, and they are fully compliant with the SAR standards and national regulations in the frequency range of 4 MHz ~ 10 GHz. Full computer-aided design (CAD) information have been predefined in the DASY8 software, enabling fast and easy usage.

In DASY8, phantoms are placed in a platform slot. The position of the slot relative to the robot is taught using the three reference points (P1, P2, P3) located on top of the phantom table.



Figure 4.2.3 SAM Twin Phantom

4.2.4 ELI Phantom

The ELI phantom is optimized for compliance testing of large handheld and body-mounted wireless devices (tablets, laptops) or for evaluating transmitters operating at low frequencies.

The size of the phantom, including top plate is 1.0 x 0.5 m (1 full DASY8 platform slot). The filling volume is approximately 25 L.



Figure 4.2.4 ELI Phantom

4.3 Simulating Mixture Characterization

TSL System	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head Wide Band	SPEAG HBBL 600-10000	600 - 10000	Ethanediol, Sodium petroleum sulfonate / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol



600 MHz ~ 10 GHz Head Broad band Tissue Simulating Liquid, Depth: 150 mm

4.4 Device Holder for Transmitters

Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions at which the devices must be measured are defined by the standards. The DASY8 device holder along with the associated adaptors / options is designed to accommodate different types and sizes of test devices and yet provide accurate and repeatable positioning as described in the test standards.



Figure 4.4 Mounting Device for Hand-held Devices and Laptop / Body-Worn Devices

4.5 Definition of Power Density

Power density is energy per unit time and unit area crossing the infinitesimal surface dA characterized by the normal unit n .

$$S = \frac{1}{T} \int (\mathbf{E} \times \mathbf{H}) \cdot \hat{\mathbf{n}} dT$$

Where $\mathbf{E}$ and $\mathbf{H}$ are the electric magnetic fields as function of time, respectively, and T is the period of the waveform.

The time averaged power density S_{av} over a surface of area A characterized by the normal vector n is given by the following equation.

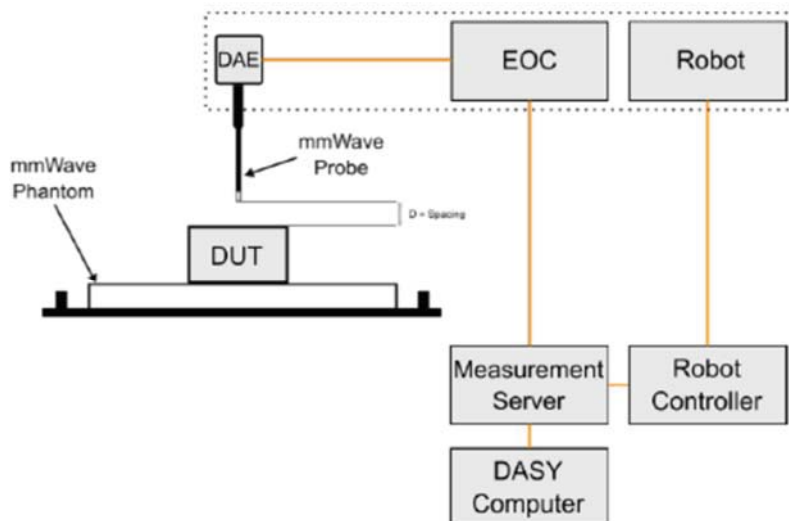
$$S_{av} = \frac{1}{2A} \Re \left(\int \mathbf{E} \times \mathbf{H}^* \cdot \hat{\mathbf{n}} dA \right)$$

Where $\mathbf{H}$ represents the complex conjugate of the H-field phasor.

4.6 Power Density Measurement

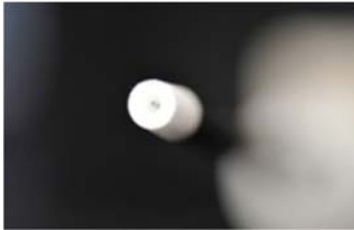
4.6.1 SPEAG DASY8 System

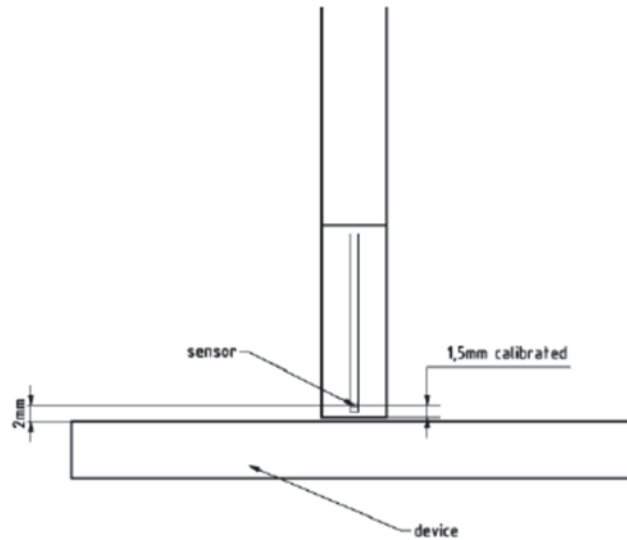
The DASY8 system uses the high-precision industrial robots TX2-90XL from Staubli. The robots controlled by the CS9c controllers. The robot arm is an essentially maintenance—free 6-axis robot arm equipped with servomotors coupled to safe digital absolute encoders for each joint axis. The DASY8 measurement server handles all time critical tasks such as acquisition of measurement data, detection of phantom surface, control of robot movements, supervision of safety features. The Electrical to Optical Converter(EOC8) supports several functionalities that exchange between the DAE and the measurement server, power supply for DAE4 IP and MAGPy-ES, touch/collision detection for applications that do not require a DAE4, data acquisition based on ethernet protocol, device positioner for DASY8. The DAE is used to acquire the probe sensor voltages and transfer them to the DASY8 measurement server and to report mechanical surface detection and probe collisions.



4.6.2 mmWave Probe (EUmmWVx)

Two dipoles optimally arranged to obtained pseudo—vector information. Minimum 3 measurements/points 120 ° rotated around probe axis. Sensors(0.8 mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field.

Model	EUmmWV4	
Frequency	750 MHz to 110 GHz	
Dynamic range	< 20 V/m – 10,000 V/m PRE-10	
Linearity	< ± 0.2 dB	
Hemispherical Isotropy	< 0.5 dB	
Position Precision	< 0.2 mm	
Dimensions	Overall length : 320 mm (tip : 20 mm) Tip diameter : encapsulation 8 mm Distance form probe tip to dipole centers : < 2mm Sensor displacement to probe's calibration : < 0.3mm	

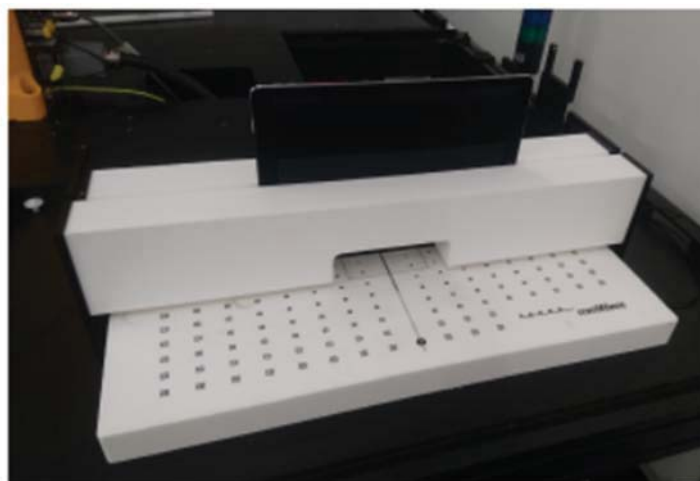


The probe design allows measurements at distances as small as 2 mm from sensors to the surface of the device under test. The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

4.6.3 mmWave Phantom & DUT holder

The mmWave phantom has been designed to support EUT during 5G testing. The mmWave phantom approximates free-space conditions, allowing to evaluate not only the antenna side of the device, but also the front(screen) or any opposite-radiating side of wireless devices operating above 10 GHz without distorting the radiofrequency field. It consists of a 40 mm thick Rohacell plate used as a test bed which has a loss tangent ≤ 0.05 and a relative permittivity ≤ 1.2 . The high performance RF absorbers are placed into a standard slot of a DASY8 platform.

The mmWave DUT holder ensures accurate positioning of smartphone, tablets, and laptops.



mmWave Phantom and DUT holder

4.7 Measurement Procedure

4.7.1 SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-peak SAR value consists of the following steps:

- Power reference measurement
- Area scan
- Zoom scan
- Power drift measurement

The following procedure shall be performed for each test configuration in SAR test standard. The following table provides the measurement parameter used in the area scan and zoom scan.

- a) Measure the local SAR at a test point within 5 mm of the inner surface of the phantom where the measured local SAR exceeds the lower detection limit of the measurement system.
- b) Measure the two-dimensional SAR distribution within the phantom.
- c) From the area-scan SAR distribution, identify the position of the maximum SAR value.
- d) Measure the three-dimensional SAR distribution at each of the local maxima locations identified in step c).

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 mm $\pm$ 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm $\pm$ 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^{\circ} \pm 1^{\circ}$	$20^{\circ} \pm 1^{\circ}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ mm	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

4.7.2 Power Density Measurement Procedure

● Power Density Assessment Based on E-field

Within a short distance from the transmitting source, power density is determined based on both electric and magnetic fields. Generally, the magnitude and phase of two components of either the E-field or H-field are needed on a sufficiently large surface to fully characterize the total E-field and H-field distributions. Nevertheless, solutions based on direct measurement of E-field and H-field can be used to compute power density. The general measurement approach is summarized in a) to g).

a) Measure the E-field on the measurement surface at a reference location where the field is well above the noise level. This reference level will be used at the end of this procedure to assess output power drift of the DUT during the measurement.

b) Scan the electric field on the measurement surface. Measurements are therefore conducted according to the instructions provided by the measurement system manufacturer.

c) Measurement spatial resolution can depend on the measured field characteristic and measurement methodology used by the system. Planar scanners typically require a step size of less than $\lambda / 2$.

d) For cDASY6, H-field was calculated from the measured E-field using a reconstruction algorithm. As the power density calculation requires knowledge of both amplitude and phase, reconstruction algorithms can also be used to obtain field information from the measured E-field data (e.g. the phase from the amplitude if only the amplitude is measured). In substance, reconstruction algorithms are the set of algorithms, mathematical techniques and procedures that are applied to the measured field on the measurement surface to determine H-field (amplitude and phase) on the evaluation surface.

e) Use Formula to determine the spatial-average power density distribution on the evaluation surface. The spatial averaging area, A, is specified by the applicable exposure limits or regulatory requirements. If the shape of the area is not provided by the relevant regulatory requirements, a circular shape is recommended.

$$S_{av} = \frac{1}{AT} \iint (\mathbf{E} \times \mathbf{H}) \cdot \hat{n} dA dT$$

f) The maximum spatial-average and/or local power density on the evaluation surface is the final quantity to determine compliance against applicable limits.

g) Measure the E-field on the measurement surface position at the reference location chosen in step a). The power drift of the DUT is estimated as the difference between the squared amplitude of the field values taken in steps a) and g). When the drift is smaller than $\pm 5 \%$, this term should be considered in the uncertainty budget. Drifts larger than 5 % due to the design and operating

characteristics of the device should be accounted for or addressed according to regulatory requirements to determine compliance.

● Reconstruction Algorithms

Computation of the power density in general requires knowledge of the electric (E-) and magnetic (H-) field amplitudes and phases in the plane of incidence. Reconstruction of these quantities from pseudo-vector E-field measurements is feasible, as they are constrained by Maxwell's equations. The SPEAG have developed a reconstruction approach based on the Gerchberg-Saxton algorithm, which benefits from the availability of the E-field polarization ellipse information obtained with the EUmmWV probe.

5. RF Exposure Limits

SAR

HUMAN EXPOSURE	General Population / Uncontrolled Exposure Environment	Occupational / Controlled Exposure Environment
Spatial Peak SAR (Brain)	1.6	8.0
Spatial Average SAR (Whole Body)	0.08	0.4
Spatial Peak SAR (Hands, Wrists, Feet and Ankles)	4.0	20.0

1. This limits accord to SAR Human Exposure Specified in ANSI/IEEE C95.1-1992.
2. The Spatial Peak value of the SAR averaged over any 1g of tissue and over the appropriate averaging time.
3. The Spatial average value of the SAR averaged over the whole body.
4. The Spatial Peak value of the SAR averaged over any 10g of tissue and over appropriate averaging time.

Localized APD basic restrictions limit (6 GHz – 300 GHz)

HUMAN EXPOSURE	General Population / Uncontrolled Exposure Environment	Occupational / Controlled Exposure Environment
Local APD (Absorbed Power Density) (4 cm ² , W/m ²)	20	100

1. Local APD shall be averaged over a square 4 cm² surface area of the body.
2. The duration of the spatial peak exposure is averaged over during the appropriate averaging time.

Power Density

HUMAN EXPOSURE	General Population / Uncontrolled Exposure Environment	Occupational / Controlled Exposure Environment
Power Density (4 cm ² , mW/cm ²)	1.0	5.0

Occupational / Controlled exposure §1.1310(e)(2)

Occupational / Controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception of transient persons, this phrase also means that an exposed person has received appropriate training regarding work practices relating to controlling or mitigating his or her exposure. The phrase exercise control means that an exposed person is allowed and also knows how to reduce or avoid exposure by administrative or engineering work practices, such as use of personal protective equipment or time averaging of exposure.

General Population / Uncontrolled exposure §1.1310(e)(3)

General Population / uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. For

example, RF sources intended for consumer use shall be subject to the limits general population / uncontrolled exposure.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Limits for Maximum Permissible Exposure(MPE)

6. Measurement Uncertainty & Decision Rule

6.1 SAR Measurement Uncertainty

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz clause 2.8.2, SAR measurement uncertainty analysis is required in SAR report only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR and ≥ 3.75 W/kg for 10-g SAR. The expanded SAR measurement uncertainty must be $\leq 30\%$, for confidence interval of $k = 2$.

For this device, the highest measured 1-g SAR is less 1.5 W/kg and 10-g SAR is less 3.75 W/kg. Therefore, the measurement uncertainty table is not required in this report.

6.2 Decision Rule

The choice of whether or not to include the measurement uncertainty of the measuring system used in the test in the conformance determination.:

- ☐ Application of internal procedures used in type testing where traceability of measurement uncertainty is established.
- ☒ Applying the decision that the standard used for type testing does not require it.

6.3 Absorbed Power Density Measurement Uncertainty

Frequency Band : 6 GHz ~ 10 GHz

Source of Uncertainty	Tolerance (± %) 1 g	Tolerance (± %) 8 g / 10 g	Probability Distribution	Divisor	<i>C_i</i> <i>1g</i>	<i>C_i</i> <i>8g/10g</i>	Standard Uncertainty (±%) 1g / 1 cm²	Standard Uncertainty (±%) 8g/10g 4 cm²	V _{eff}	Contributions
Calibration	14.20	13.90	N	1	1	1	14.20	13.90	∞	14.2
Isotropy	13.50	13.50	R	√3	1	1	7.79	7.79	∞	7.8
Combined standard uncertainty	RSS						16.20	15.94		
Expanded uncertainty (95% confidence interval)	k = 2						32.40	31.87		
In dB							1.22	1.20		

6.4 Power Density Measurement Uncertainty

Frequency Band : 6 GHz ~ 100 GHz

Source of Uncertainty	Tolerance ($\pm$ dB)	Probability Distribution	Divisor	C_i	Standard Uncertainty ($\pm$ dB)	V_{eff}	Contributions
Uncertainty terms dependent on the Measurement System							
Calibration	0.49	N	1	1	0.49	∞	0.49
Probe correction	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Frequency response (BW $\leq$ 1 GHz)	0.20	R	$\sqrt{3}$	1	0.12	∞	0.12
Sensor cross coupling	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Isotropy	0.50	R	$\sqrt{3}$	1	0.29	∞	0.29
Linearity	0.20	R	$\sqrt{3}$	1	0.12	∞	0.12
Probe scattering	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Probe positioning offset	0.30	R	$\sqrt{3}$	1	0.17	∞	0.17
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1	0.02	∞	0.02
Sensor mechanical offset	0.02	R	$\sqrt{3}$	1	0.01	∞	0.01
Probe spatial resolution	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Field impedance dependence	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1	0.02	∞	0.02
Measurement area truncation	0.10	R	$\sqrt{3}$	1	0.06	∞	0.06
Data acquisition	0.03	N	1	1	0.03	∞	0.03
Sampling	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Field reconstruction	0.60	R	$\sqrt{3}$	1	0.35	∞	0.35
Forward Transformation using FTE/MEO	0.70	R	$\sqrt{3}$	1	0.40	∞	0.40
Power density scaling	0.40	R	$\sqrt{3}$	1	0.23	∞	0.23
Spatial averaging	0.10	R	$\sqrt{3}$	1	0.06	∞	0.06
System detection limit	0.04	R	$\sqrt{3}$	1	0.02	∞	0.02
Uncertainty terms dependent on the DUT and environmental factors							
Probe Coupling with DUT	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Modulation response	0.40	R	$\sqrt{3}$	1	0.23	∞	0.23
Integration time	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Response time	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Device holder influence	0.10	R	$\sqrt{3}$	1	0.06	∞	0.06
DUT alignment	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
RF ambient conditions	0.04	R	$\sqrt{3}$	1	0.02	∞	0.02
Ambient reflections	0.04	R	$\sqrt{3}$	1	0.02	∞	0.02
Immunity/ secondary reception	0.00	R	$\sqrt{3}$	1	0.00	∞	0.00
Drift of the DUT	0.20	R	$\sqrt{3}$	1	0.12	∞	0.12
Combined standard uncertainty	RSS				± 0.89		
Expanded uncertainty (95% confidence interval)	$k = 2$				± 1.79		

The above measurement uncertainties are according to IEC/IEEE 63195-1.

7. Test Equipments

No.	Instrument	Manufacturer	Model	Serial No.	Calibration Data	Calibration Due date
1	Shield Room	SY Corporation	NKRFS2	20220619	N/A	N/A
2	DASY8 System Robot	Stäubli	TX2-90XL	F/22/0036542/A/001	N/A	N/A
3	DASY8 Robot Controller	SPEAG	CS9spe-TX2-90	F/22/0036542/c/001	N/A	N/A
4	Vector Reflectometer	SPEAG	R140	21460035	2024-07-25	2025-07-25
5	Data Acquisition Electronics	SPEAG	DAE4	672	2024-08-16	2025-08-16
6	E-Field probe	SPEAG	EX3DV4	3947	2025-02-19	2026-02-19
7	Oval Flat phantom ELI v8	SPEAG	QD OVA 004 A	2170	N/A	N/A
8	Dipole Antenna	SPEAG	D6.5 GHz V2	1077	2024-05-15	2026-05-15
9	Dipole Antenna	SPEAG	D5 GHz V2	1146	2025-03-14	2027-03-14
10	Low Pass Filter	Mini-Circuit	VLF-7200	1 5542	2024-10-08	2025-10-08
11	Low Pass Filter	Mini-Circuit	VLF-6000+	3 2044	2024-12-26	2025-12-26
12	DUAL DIRECTIONAL COUPLER	KEYSIGHT	772D	MY52180366	2025-03-28	2026-03-28
13	Electric and Magnetic Field Probe	SPEAG	DAKS-3.5	1152	2024-05-23	2025-05-23
14	Dielectric Probe Stand	SPEAG	DAK Probe Stand	SM DAK 300-AB	N/A	N/A
15	RF Power Amplifier	EXODUS ADVANCED COMMUNICATIONS	AMP2027ADB	10004	2024-10-08	2025-10-08
16	Power Meter	H.P	437B	2912U01687	2024-10-08	2025-10-08
17	Power Sensor	H.P	8481A	MY41098315	2024-10-08	2025-10-08
18	Power Sensor	R&S	NRV-Z85	102407	2025-03-28	2026-03-28
19	Power Sensor	R&S	NRV-Z85	102408	2025-03-28	2026-03-28
20	10 dB Attenuator(50 W)	WEINSCHEL	47-10-43	BD0044	2024-10-08	2025-10-08
21	3 dB Attenuator	Mini-Circuit	BW-S3W20+	2224	2024-10-08	2025-10-08
22	Humidity Temperature	Lutron	MHB-382SD	40378	2024-10-16	2025-10-16
23	Vector Signal Generator	R&S	SMW200A	105755	2025-04-18	2026-04-18
24	Digital liquid Temperature	LKM electronic	DTM3000	3187	2024-10-15	2025-10-15
25	Spectrum Analyzer	Agilent	E4440A	MY44303257	2024-10-07	2025-10-07
26	DIGITAL MULTIMETER	EZ DIGITAL	DM-334	2111395	2024-10-08	2025-10-08
27	Device Holder	SPEAG	MD4HHTV5	SD 000 H01- KA	N/A	N/A
28	Electric and Magnetic Field Probe	SPEAG	EUmmWV4	9537	2024-05-03	2025-05-03
29	Electric and Magnetic Field Probe	SPEAG	DUMMY 5G	SP DP2 002 AA	N/A	N/A
30	System Verification Antenna (10 GHz)	SPEAG	5G Verification Source 10GHz	1047	2024-05-06	2025-05-06
31	mmWave Phantom	SPEAG	QD 015 025 C	1099	N/A	N/A

8. FCC Measurement Procedures

8.1 General Device setup

The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurements. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

8.2 SAR Procedures in 2.4 GHz

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements.

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure.

- a) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- b) When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any *reported* SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configuration, the measurement and test reduction procedures for OFDM are applied. SAR is not required for the following 2.4 GHz OFDM conditions.

- a) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- b) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

8.3 SAR test requirements for OFDM configuration

When SAR measurement is required for 802.11 a/g/n/ac OFDM configurations, each standalone and aggregated frequency band is considered separately for SAR test reduction. When the same transmitter and antenna are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies.

The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band.

8.4 Initial Test position SAR test reduction procedure

- a) When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
- b) When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.
- c) For all positions/configuration tested using the initial test position and subsequent test position, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channel are tested.

8.5 Simultaneous transmission SAR considerations

Per KDB publication 248227 D01 v02r02, the simultaneous SAR provision in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1-g single transmission chain SAR measurements is < 1.6 W/kg, no additional SAR measurements for MIMO are required.

8.6 Absorbed Power Density Conversion

The Absorbed Power Density(APD) will be derived from the measured SAR values. According to SPEAG application note and DASY8 manual, the APD is evaluated numerically using the FDTD method of Sim4Life software and averaged over square areas of 1cm^2 and 4cm^2 in the lower voxel layer of a flat phantom at a frequency of 6.5 GHz. The phantom consists of a dielectric shell of 2 mm thickness and a relative permittivity 3.7.

8.7 Total Field and Power Flux Density Reconstruction

Plane-to-Plane Phase Reconstruction(PTP-PR)

Computation of the IPD in general requires knowledge of the electric (E-) and magnetic (H-) field amplitude and phases in the plane of incidence. Reconstruction of these quantities from pseudo-vector E-field measurements is feasible, as they are constrained by Maxwell's equations.

This reconstruction algorithm, together with the ability of the probe to measure extremity close to the source without perturbing the field, permits reconstruction of the E- and H-fields and the IPD on measurement planes located as near as $\lambda/2\pi$. At closer distances, the uncertainty might be larger.

Equivalent Source Reconstruction (ESR)

In order to overcome the main limitations of PTP-PR at distance $d \leq \lambda/2\pi$ from the DUT, i.e., in the reactive near field and beyond planar evaluation surfaces, SPEAG have joined forces in a research collaboration to develop a novel equivalent source reconstruction (ESR) algorithm, that models an unknown and inaccessible transmitter not anymore in terms of plane waves but as a set of distributed known auxiliary sources below the surface of the device enclosure. The location, amplitudes, and phases of these sources are then determined to reconstruct the measured near-fields optimally. As a result, the transmitters inside any enclosure can be replaced with these equivalent sources in any radiation problem, including exposure assessment scenarios. ESR even enables back transformation within a limited range.

8.8 Power Flux Density Averaging

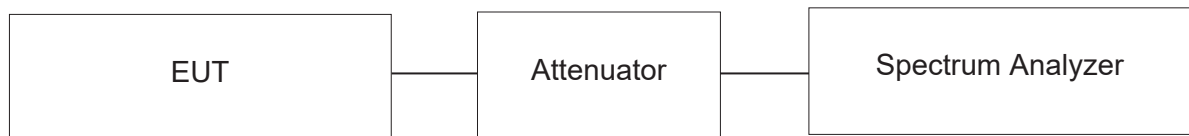
The average of the reconstructed power density is evaluated on the measurement plane. Two averaging geometries are available: a circle and a rotating square. The averaging area is defined by the user; typical values are 1 cm² and 4 cm². The three variants of the spatial-average Power density(sPD) defined in the IEC 63195 standard are computed by integration of the poynting vector.

- sPDn+ : Surface normal propagating power flux density into the phantom.
- sPDtot+ : Total propagating power flux density into the phantom.
- sPDmod+ : Total power flux density into the phantom considering near-field exposure.

9. Output Power Measurement

9.1 Measurement procedures for Output Power

EUTs average output power was measured at low, middle, high channels with a spectrum analyzer connected to the antenna terminal while the EUTs operating at its maximum power control level.



Power measurement Test Setup

9.2 Conducted RF Output Power

For DSS, DTS

2.4 GHz Band(Bluetooth, BLE)

Mode	Measured Frequency(MHz)	Data rate	Duty Factor	Measured Output Power(dBm)	
				SISO Ant 1	SISO Ant 2
BDR QPSK	2 402	1 Mbps	1.302	4.45	-
	2 441			4.38	-
	2 480			4.31	-
EDR 4DQPSK	2 402	2 Mbps	1.302	0.99	-
	2 441			0.95	-
	2 480			0.75	-
EDR 8DPSK	2 402	3 Mbps	1.302	1.04	-
	2 441			1.02	-
	2 480			0.70	-
LE 1M	2 402	1 Mbps	1.171	3.65	-
	2 440			3.62	-
	2 480			3.33	-
Longrange8	2 402	125 kbps	1.025	3.45	-
	2 440			3.43	-
	2 480			3.23	-
Longrange2	2 402	500 kbps	1.098	3.49	-
	2 440			3.46	-
	2 480			3.27	-
LE 2M	2 402	2 Mbps	1.741	3.40	-
	2 440			3.42	-
	2 480			3.23	-

Note :

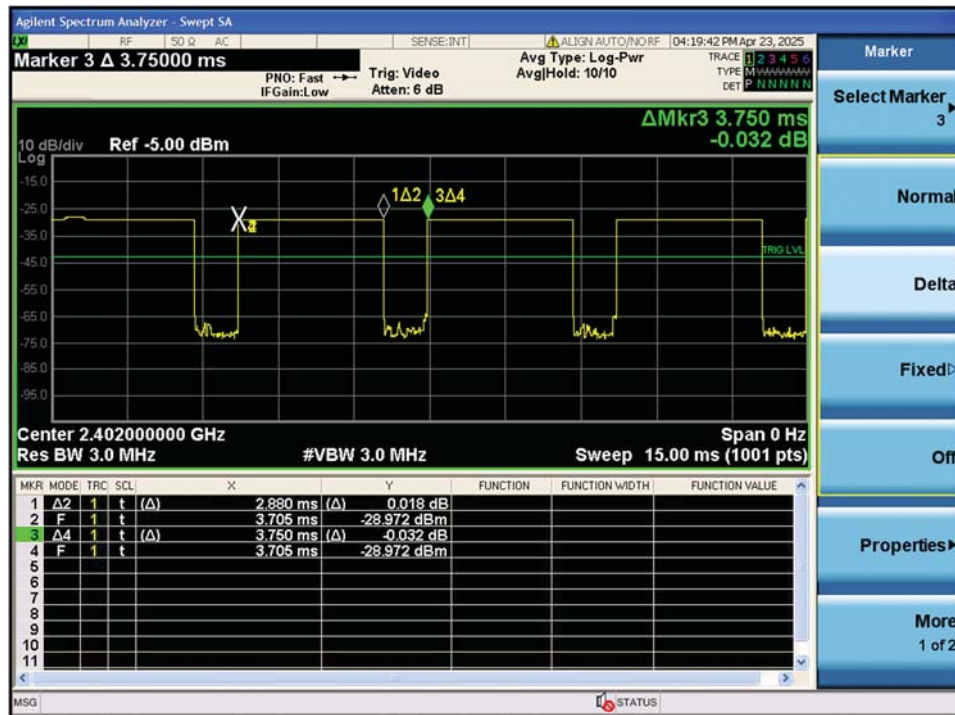
1. Power measurements were performed for all transmission mode configurations including the highest maximum output power specified for the production unit.
2. The BT and BLE transmission of this product operates only in SISO. Please refer to clause 2.2.4.

Time-domain plot for Bluetooth Antenna Transmission

Mode	Antenna	On time (ms)	ON+OFF time (ms)	Duty Cycle (%)	Duty factor
BDR QPSK (2402 MHz)	Ant 1	2.880	3.750	76.80	1.302

According to TCB Workshop Oct 2016, when call box and Bluetooth protocol are used, time-domain plots are required to identify duty factor for supporting the test setup and results.

Please refer to the following figure.



U-NII-1 Band

Mode	Measured Frequency(MHz)	Datarate	Duty Factor	Measured Output Power(dBm)
				MIMO
802.11ac (VHT80)	5 210	MCS0	1.013	12.32
		MCS1		12.18
		MCS2		12.25
		MCS3		10.80
		MCS4		10.82
		MCS5		10.70
		MCS6		10.83
		MCS7		10.58
		MCS8		10.58
		MCS9		10.68
802.11ax (HEW80)		MCS0	1.014	12.24
		MCS1		12.22
		MCS2		12.04
		MCS3		10.68
		MCS4		10.66
		MCS5		10.62
		MCS6		10.51
		MCS7		10.52
		MCS8		10.51
		MCS9		10.65
		MCS10		10.53
		MCS11		10.57

Note :

1. Power measurements were performed for all transmission mode configurations including the highest maximum output power specified for the production unit.
2. Duty cycle of this device is 99 %

U-NII-3 Band

Mode	Measured Frequency(MHz)	Datarate	Duty Factor	Measured Output Power(dBm)
				MIMO
802.11ac (VHT80)	5 775	MCS0	1.013	12.15
		MCS1		12.02
		MCS2		12.05
		MCS3		10.58
		MCS4		10.68
		MCS5		10.71
		MCS6		10.52
		MCS7		10.57
		MCS8		10.52
		MCS9		10.50
802.11ax (HEW80)		MCS0	1.014	12.03
		MCS1		11.97
		MCS2		11.96
		MCS3		10.60
		MCS4		10.52
		MCS5		10.60
		MCS6		10.53
		MCS7		10.50
		MCS8		10.53
		MCS9		10.50
		MCS10		10.51
		MCS11		10.50

Note :

1. Power measurements were performed for all transmission mode configurations including the highest maximum output power specified for the production unit.
2. Duty cycle of this device is 99 %.

U-NII-5 Band

Mode	Measured Frequency(MHz)	Datarate	Duty Factor	Measured Output Power(dBm)
				MIMO
802.11ax (HEW160)	6 025	MCS0	1.016	8.46
		MCS1		8.32
		MCS2		8.28
		MCS3		8.26
		MCS4		8.22
		MCS5		8.03
		MCS6		7.98
		MCS7		8.04
		MCS8		8.03
		MCS9		8.07
		MCS10		7.99
		MCS11		7.97
	6 185	MCS0	1.016	8.01
		MCS1		7.87
		MCS2		7.93
		MCS3		7.86
		MCS4		7.75
		MCS5		7.74
		MCS6		7.76
		MCS7		7.67
		MCS8		7.70
		MCS9		7.78
		MCS10		7.77
		MCS11		7.82
	6 345	MCS0	1.016	8.34
		MCS1		8.13
		MCS2		7.99
		MCS3		7.93
		MCS4		7.99
		MCS5		8.18
		MCS6		8.12
		MCS7		8.02
		MCS8		7.98
		MCS9		7.95
		MCS10		7.98
		MCS11		8.07

Note :

1. Power measurements were performed for all transmission mode configurations including the highest maximum output power specified for the production unit.
2. Duty cycle of this device is 99 %.

U-NII-6 Band

Mode	Measured Frequency(MHz)	Datarate	Duty Factor	Measured Output Power(dBm)
				MIMO
802.11ax (HEW160)	6 505	MCS0	1.016	8.25
		MCS1		8.12
		MCS2		7.97
		MCS3		7.97
		MCS4		7.96
		MCS5		7.90
		MCS6		7.89
		MCS7		7.71
		MCS8		7.83
		MCS9		7.80
		MCS10		7.95
		MCS11		8.01

Note :

1. Power measurements were performed for all transmission mode configurations including the highest maximum output power specified for the production unit.
2. Duty cycle of this device is 99 %.

U-NII-7 Band

Mode	Measured Frequency(MHz)	Datarate	Duty Factor	Measured Output Power(dBm)
				MIMO
802.11ax (HEW160)	6 665	MCS0	1.016	8.51
		MCS1		8.28
		MCS2		8.18
		MCS3		8.12
		MCS4		8.29
		MCS5		8.35
		MCS6		8.25
		MCS7		8.25
		MCS8		8.22
		MCS9		8.32
		MCS10		8.28
		MCS11		8.36
	6 825	MCS0	1.016	8.05
		MCS1		7.93
		MCS2		7.86
		MCS3		7.74
		MCS4		7.74
		MCS5		7.91
		MCS6		7.80
		MCS7		7.74
		MCS8		7.68
		MCS9		7.81
		MCS10		7.86
		MCS11		7.82

Note :

1. Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
2. Duty cycle of this device is 99 %.

U-NII-8 Band

Mode	Measured Frequency(MHz)	Datarate	Duty Factor	Measured Output Power(dBm)
				MIMO
802.11ax (HEW160)	6 985	MCS0	1.016	8.02
		MCS1		7.85
		MCS2		7.90
		MCS3		7.72
		MCS4		7.57
		MCS5		7.66
		MCS6		7.82
		MCS7		7.73
		MCS8		7.65
		MCS9		7.73
		MCS10		7.58
		MCS11		7.68

Note :

1. Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
2. Duty cycle of this device is 99 %.

10. System Verification

10.1 Tissue verification results

For the measurement of the following parameters the DAKS-3.5 was used, representing the open-ended slim form probe measurement procedure. The measured values should be within $\pm 5\%$ of the recommended values given by IEEE 1528-2013.

For U-NII-1 Band

Table 10.1 Measured Tissue Parameters

Date	Liquid Type	Liquid Temp. (°C)	Frequency (MHz)	Measured relative Permittivity (ϵ)	Measured Conductivity (S/m)	Target relative Permittivity (ϵ)	Target Conductivity (S/m)	Permittivity Error (%)	Conductivity Error (%)
Apr 22.2025	5.2G /Head	22.10	5 200	34.82	4.53	35.99	4.66	-3.23	-2.72
			5 210	34.79	4.53	35.97	4.67	-3.29	-2.98

For U-NII-3 Band

Table 10.2 Measured Tissue Parameters

Date	Liquid Type	Liquid Temp. (°C)	Frequency (MHz)	Measured relative Permittivity (ϵ)	Measured Conductivity (S/m)	Target relative Permittivity (ϵ)	Target Conductivity (S/m)	Permittivity Error (%)	Conductivity Error (%)
Apr 22.2025	5.8G /Head	22.10	5 775	33.88	5.19	35.33	5.24	-4.10	-1.05
			5 800	33.89	5.17	35.30	5.27	-3.99	-1.85
Apr 23.2025	5.8G /Head	22.00	5 775	34.06	5.33	35.33	5.24	-3.59	1.64
			5 800	34.05	5.29	35.30	5.27	-3.54	0.46

For U-NII-5 Band

Table 10.3 Measured Tissue Parameters

Date	Liquid Type	Liquid Temp. (°C)	Frequency (MHz)	Measured relative Permittivity (ε)	Measured Conductivity (S/m)	Target relative Permittivity (ε)	Target Conductivity (S/m)	Permittivity Error (%)	Conductivity Error (%)
Apr 24.2025	6GHz /Head	21.60	6 500	34.19	6.31	34.46	6.07	-0.78	3.86
			6 025	34.78	5.61	35.04	5.51	-0.73	1.86
			6 185	34.77	5.83	34.84	5.71	-0.19	2.22
			6 345	34.19	6.07	34.64	5.90	-1.29	2.91
May 08.2025	6GHz /Head	22.10	6 500	33.91	6.24	34.46	6.07	-1.59	2.78
			6 025	34.43	5.55	35.04	5.51	-1.74	0.87
			6 185	34.34	5.78	34.84	5.71	-1.43	1.26
			6 345	33.91	6.04	34.64	5.90	-2.10	2.53

For U-NII-6 Band

Table 10.4 Measured Tissue Parameters

Date	Liquid Type	Liquid Temp. (°C)	Frequency (MHz)	Measured relative Permittivity (ε)	Measured Conductivity (S/m)	Target relative Permittivity (ε)	Target Conductivity (S/m)	Permittivity Error (%)	Conductivity Error (%)
Apr 28.2025	6GHz /Head	22.00	6 500	34.44	6.15	34.46	6.07	-0.05	1.23
			6 505	34.44	6.16	34.45	6.08	-0.06	1.30
May 08.2025	6GHz /Head	22.10	6 500	33.91	6.24	34.46	6.07	-1.59	2.78
			6 505	33.90	6.24	34.45	6.08	-1.60	2.65

For U-NII-7 Band

Table 10.5 Measured Tissue Parameters

Date	Liquid Type	Liquid Temp. (°C)	Frequency (MHz)	Measured relative Permittivity (ε)	Measured Conductivity (S/m)	Target relative Permittivity (ε)	Target Conductivity (S/m)	Permittivity Error (%)	Conductivity Error (%)
Apr 28.2025	6GHz /Head	22.00	6 500	34.44	6.15	34.46	6.07	-0.05	1.23
			6 665	33.85	6.18	34.27	6.26	-1.23	-1.36
			6 825	33.64	6.52	34.08	6.45	-1.30	1.08
May 08.2025	6GHz /Head	22.10	6 500	33.91	6.24	34.46	6.07	-1.59	2.78
			6 665	33.33	6.35	34.27	6.26	-2.73	1.49

For U-NII-8 Band

Table 10.6 Measured Tissue Parameters

Date	Liquid Type	Liquid Temp. (°C)	Frequency (MHz)	Measured relative Permittivity (ε)	Measured Conductivity (S/m)	Target relative Permittivity (ε)	Target Conductivity (S/m)	Permittivity Error (%)	Conductivity Error (%)
Apr 28.2025	6GHz /Head	22.00	6 500	34.44	6.15	34.46	6.07	-0.05	1.23
			6 985	33.39	6.64	33.90	6.63	-1.50	0.08
Apr 29.2025	6GHz /Head	21.80	6 500	35.08	6.13	34.46	6.07	1.81	0.90
			6 985	34.11	6.59	33.90	6.63	0.64	-0.68

10.2 System Verification Test setup

The system verification is verified to the $\pm 10\%$ of the specifications at each frequency band by using the system validation kit.

1. Perform internal calibration of each equipment.
2. Cabling the system, using the verification kit equipment.
3. The input level is set to be about 100 or 250 mW from the signal generator to the dipole antenna.
4. Dipole antenna was located below the phantom.
5. System verification was performed and 1g / 10g SAR was measured.
6. The results were normalized to 1 W input power.
7. Check if the 1 W normalized value was within $\pm 10\%$ of the target value.

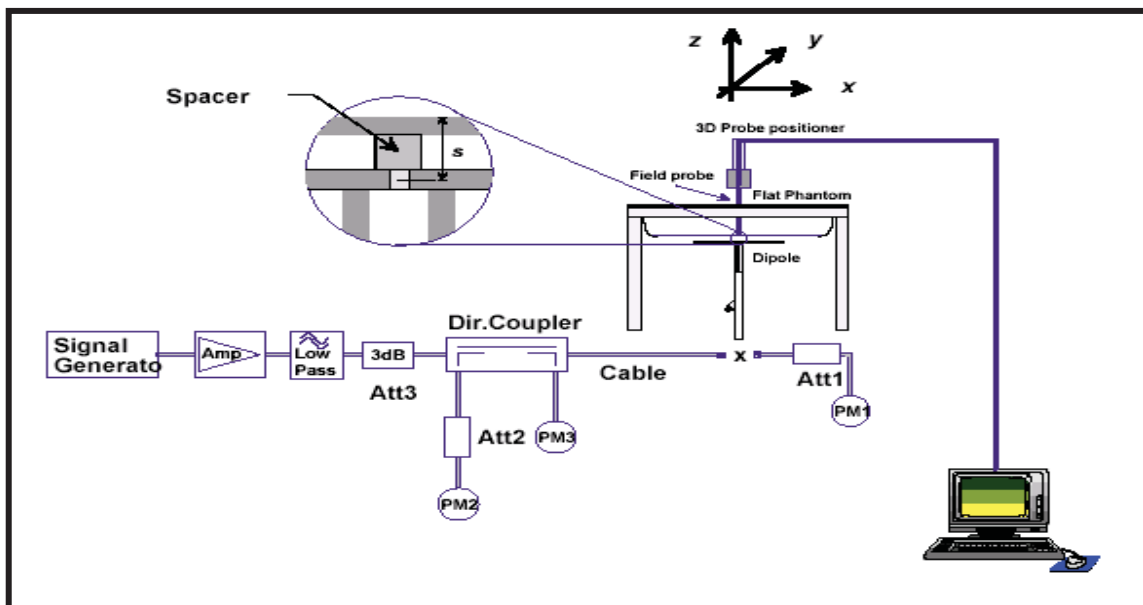


Figure 10.2 System Verification setup

10.3 System Verification Results

A complete 1 g and/or 10 g averaged SAR measurement is performed using a standard source. The input power of the standard source is adjusted to produce a 1 g and/or 10 g averaged SAR value falling in the range of 0.4 W/kg to 10 W/kg. The 1 g and/or 10g averaged SAR is measured at frequencies in Table 10.7 within the range to be used in compliance tests. In addition, above 6000 MHz, for successful system validation of absorbed power density(APD) , shall be used for the 8g SAR values, which is equivalent to 4 cm² in Table 10.8. In situations where the measurement system does not report the 8g SAR value, validation may be performed directly against the 4 cm² APD target value. APD values are also measured at frequencies in Table 10.8 within the range available for compliance testing. The results are normalized to 1 W forward input power and compared with the reference SAR value.

Table 10.7 System Verification Results

Date	Liquid Temperature (°C)	Measured Frequency (MHz)	Targeted 10 g SAR (W/kg)	Measured 10 g SAR (W/kg)	Normalized 10 g SAR (W/kg)	Deviation (%)	Verification Kit	Plot No.
Apr 22.2025	22.10	5 200	21.40	2.30	23.00	7.48	D5GHzV2 SN: 1146	#V01
Apr 22.2025	22.10	5 800	22.30	2.24	22.40	0.45	D5GHzV2 SN: 1146	#V02
Apr 23.2025	22.00	5 800	22.30	2.29	22.90	2.69	D5GHzV2 SN: 1146	#V03
Apr 24.2025	21.60	6 500	54.10	5.34	53.40	-1.29	D6.5GHzV2 SN: 1077	#V04
Apr 28.2025	22.00	6 500	54.10	5.62	56.20	3.88	D6.5GHzV2 SN: 1077	#V05
Apr 29.2025	21.80	6 500	54.10	5.56	55.60	2.77	D6.5GHzV2 SN: 1077	#V06
May 08.2025	22.10	6 500	54.10	5.45	54.50	0.74	D6.5GHzV2 SN: 1077	#V07

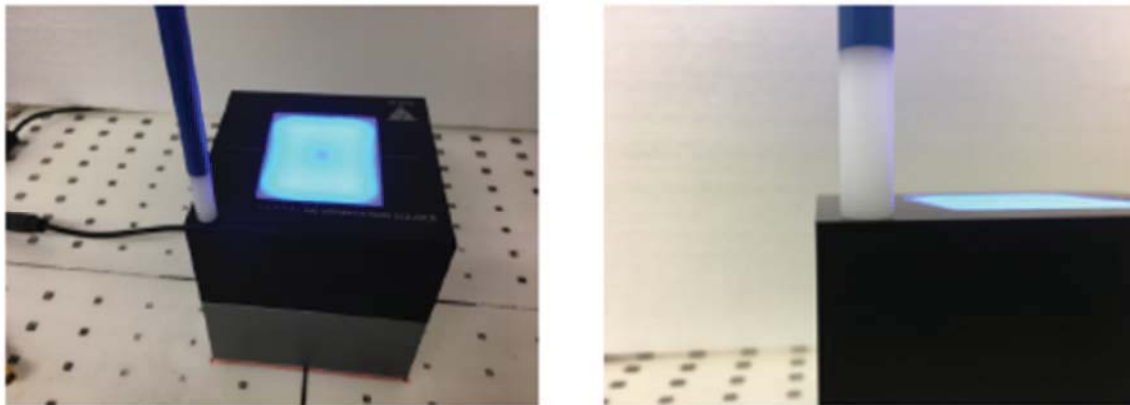
Table 10.8 Absorbed Power Density System Verification Results

Date	Frequency (MHz)	Targeted 8 g SAR (W/kg)	Measured 8 g SAR (W/kg)	Normalized 8 g SAR (W/kg)	Deviation (%)	Targeted APD 4cm ² (W/kg)	Measured APD 4cm ² (W/kg)	Normalized APD 4cm ² (W/kg)	Deviation (%)	Verification Kit	Plot No.
Apr 24.2025	6 500	64.60	6.53	65.30	1.08	1290.00	131.00	1310.00	1.55	D6.5GHzV2 SN: 1077	#V04
Apr 28.2025	6 500	64.60	6.85	68.50	6.04	1290.00	137.00	1370.00	6.20	D6.5GHzV2 SN: 1077	#V05
Apr 29.2025	6 500	64.60	6.81	68.10	5.42	1290.00	136.00	1360.00	5.43	D6.5GHzV2 SN: 1077	#V06
May 08.2025	6 500	64.60	6.64	64.60	2.79	1290.00	133.00	1330.00	3.10	D6.5GHzV2 SN: 1077	#V07

10.4 IPD System Verification Test setup

The System was verified to be within $\pm 10\%$ of the power density target on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation.

The $\pm 10\%$ deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.



Positioning of the probe during teaching of the verification source

The recommended setting for measurement of verification sources listed in below Table have been applied in the predefined files.

Frequency [GHz]	Grid step	Grid extent X/Y [mm]	Measurement points
10	0.125 ($\frac{\lambda}{8}$)	60/60	18 × 18
30	0.25 ($\frac{\lambda}{4}$)	60/60	26 × 26
45	0.25 ($\frac{\lambda}{4}$)	42/42	28 × 28
60	0.25 ($\frac{\lambda}{4}$)	32.5/32.5	28 × 28
90	0.25 ($\frac{\lambda}{4}$)	30/30	38 × 38

Recommended setting for measurement of verification sources

10.5 IPD System Verification Results

■ Result of IPD System Verification

Date	Frequency (GHz)	psPDn+ 4 cm ² (W/m ²)		Deviation (%)	psPDtot+ 4 cm ² (W/m ²)		Deviation (%)	Source S/N	Probe S/N	Plot No.
		Meas	Target		Meas	Target				
May 01.2025	10	0.690	0.660	4.55	0.703	0.662	6.19	1047	672	#V08
May 02.2025	10	0.675	0.660	2.27	0.681	0.662	2.87	1047	672	#V09

Notes:

1. Due to the internal distance from the horn to the outer surface of the verification source, the measurement distance set in the software should be offset by 4.45 mm. e.g. for measurement of the verification source at 10 mm, the measurement distance set in the software should be 5.55 mm.

11. SAR, APD, IPD Measurement Results

1. Per KDB 447498, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

Scaling Factor = Maximum Tune-up limit power(mW) / EUT RF Power(mW),

Where tune-up limit is the maximum rated power among all production units.

Reported SAR(W/kg) = Scaling Factor(Tune up) * Scaling Factor(Duty) * Measured SAR (W/kg)

2. Tune-up Limit power is refer to clause 2.4.

11.1 SAR Measurement Results

U-NII-1 Band : Ant 1&2 (Extremity SAR)

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle (%)	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift (dB)	Plot No.
MHz	CH												
5 210	42	802.11ac (VHT80)	0 mm	17.06	19.95	98.68	1.169	1.013	Front	1.310	1.552	0.000	#S01
									Back	0.015	0.018	0.000	
									Left	0.377	0.447	0.017	
									Right	0.383	0.454	0.000	

U-NII-3 Band : Ant 1&2 (Extremity SAR)

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle (%)	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift (dB)	Plot No.
MHz	CH												
5 775	155	802.11ac (VHT80)	0 mm	16.41	19.95	98.68	1.216	1.013	Front	1.640	2.016	0.000	#S05
									Back	0.039	0.048	0.000	
									Left	0.337	0.414	0.017	
									Right	0.526	0.647	0.000	

U-NII-5 Band : Ant 1&2 (Extremity SAR)

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle (%)	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift (dB)	Plot No.
MHz	CH												
6 025	15	802.11ax (HE160)	0 mm	7.01	7.94	98.39	1.132	1.016	Front	0.309	0.356	0.000	
									Back	0.017	0.020	0.180	
									Left	0.166	0.191	0.110	
									Right	0.206	0.237	0.150	
6 185	47			6.32			1.256		Front	0.326	0.416	-0.070	
6 345	79			6.82			1.164		Front	0.393	0.465	0.000	#S14

U-NII-6 Band : Ant 1&2 (Extremity SAR)

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle (%)	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift (dB)	Plot No.
MHz	CH												
6 505	111	802.11ax (HE160)	0 mm	6.68	7.94	98.39	1.189	1.016	Front	0.380	0.459	0.200	#S15
									Back	0.033	0.040	0.170	
									Left	0.292	0.353	-0.020	
									Right	0.314	0.379	-0.190	

U-NII-7 Band : Ant 1&2 (Extremity SAR)

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle (%)	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift (dB)	Plot No.
MHz	CH												
6 665	143	802.11ax (HE160)	0 mm	7.10	7.94	98.39	1.119	1.016	Front	0.344	0.391	0.000	#S19
									Back	0.029	0.033	0.130	
									Left	0.319	0.363	-0.010	
									Right	0.230	0.262	0.080	
6 825	175			6.38			1.245		Front	0.333	0.421	-0.160	

U-NII-8 Band : Ant 1&2 (Extremity SAR)

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle (%)	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	Power Drift (dB)	Plot No.
MHz	CH												
6 985	207	802.11ax (HE160)	0 mm	6.34	7.94	98.39	1.253	1.016	Front	0.329	0.419	0.000	#S24
									Back	0.024	0.031	0.110	
									Left	0.268	0.341	0.130	
									Right	0.257	0.327	-0.040	

11.2 APD Measurement Results

U-NII-5 Band : Ant 1&2

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	APD W/m ² (4 cm ²)	Reported APD W/m ² (4 cm ²)	Power Drift (dB)	Plot No.
MHz	CH														
6 025	15	802.11ax (HE160)	0 mm	7.01	7.94	98.39	1.133	1.016	Front	0.309	0.356	7.400	8.516	0.000	
									Back	0.017	0.020	0.387	0.445	0.180	
									Left	0.166	0.191	3.820	4.396	0.110	
									Right	0.206	0.237	4.820	5.547	0.150	
6 185	47			6.32			1.256		Front	0.326	0.416	7.820	9.982	-0.070	
6 345	79			6.82			1.164		Front	0.393	0.465	9.290	10.989	0.000	#S14

U-NII-6 Band : Ant 1&2

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	APD W/m ² (4 cm ²)	Reported APD W/m ² (4 cm ²)	Power Drift (dB)	Plot No.
MHz	CH														
6 505	111	802.11ax (HE160)	0 mm	6.68	7.94	98.39	1.189	1.016	Front	0.380	0.459	9.070	10.953	0.200	#S15
									Back	0.033	0.040	0.728	0.879	0.170	
									Left	0.292	0.353	6.860	8.284	-0.020	
									Right	0.314	0.379	7.510	9.069	-0.190	

U-NII-7 Band : Ant 1&2

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	APD W/m ² (4 cm ²)	Reported APD W/m ² (4 cm ²)	Power Drift (dB)	Plot No.
MHz	CH														
6 665	143	802.11ax (HE160)	0 mm	7.10	7.94	98.39	1.118	1.016	Front	0.344	0.391	8.190	9.306	0.000	
									Back	0.029	0.033	0.641	0.728	0.130	
									Left	0.319	0.363	7.490	8.510	-0.010	
									Right	0.230	0.262	5.550	6.306	0.080	
6 825	175			6.38			1.245		Front	0.333	0.421	7.810	9.875	-0.160	#S23

U-NII-8 Band : Ant 1&2

Measured Frequency		Mode	Test distance	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle	Scaling Factor (Tune up)	Scaling Factor (Duty)	EUT Position	Measured SAR 10g (W/kg)	Reported SAR 10g (W/kg)	APD W/m ² (4 cm ²)	Reported APD W/m ² (4 cm ²)	Power Drift (dB)	Plot No.
MHz	CH														
6 985	207	802.11ax (HE160)	0 mm	6.34	7.94	98.39	1.253	1.016	Front	0.329	0.419	7.720	9.823	0.000	#S24
									Back	0.024	0.031	0.537	0.683	0.110	
									Left	0.268	0.341	6.320	8.042	0.130	
									Right	0.257	0.327	5.940	7.558	-0.040	

11.3 IPD Measurement Results

U-NII-5 Band : Ant 1&2

Measured Frequency		Mode	Test distance	EUT Position	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle	Scaling Factor (Tune up)	Scaling Factor (Duty)	Scaling Factor (Uncertainty)	Meas. psPDn+ (W/m ²) 4 cm ²	Meas. psPDtot+ (W/m ²) 4 cm ²	Reported psPDn+ (W/m ²) 4 cm ²	Reported psPDtot+ (W/m ²) 4 cm ²	Power Drift (dB)	Plot No.
MHz	CH															
6 345	79	802.11ax (HE160)	2 mm	Front	6.82	7.94	98.36	1.164	1.016	1.21	1.620	3.430	2.319	4.909	0.000	#101

U-NII-6 Band : Ant 1&2

Measured Frequency		Mode	Test distance	EUT Position	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle	Scaling Factor (Tune up)	Scaling Factor (Duty)	Scaling Factor (Uncertainty)	Meas. psPDn+ (W/m ²) 4 cm ²	Meas. psPDtot+ (W/m ²) 4 cm ²	Reported psPDn+ (W/m ²) 4 cm ²	Reported psPDtot+ (W/m ²) 4 cm ²	Power Drift (dB)	Plot No.
MHz	CH															
6 505	111	802.11ax (HE160)	2 mm	Front	6.68	7.94	98.36	1.189	1.016	1.21	1.680	3.840	2.455	5.611	-0.110	#102

U-NII-7 Band : Ant 1&2

Measured Frequency		Mode	Test distance	EUT Position	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle	Scaling Factor (Tune up)	Scaling Factor (Duty)	Scaling Factor (Uncertainty)	Meas. psPDn+ (W/m ²) 4 cm ²	Meas. psPDtot+ (W/m ²) 4 cm ²	Reported psPDn+ (W/m ²) 4 cm ²	Reported psPDtot+ (W/m ²) 4 cm ²	Power Drift (dB)	Plot No.
MHz	CH															
6 825	175	802.11ax (HE160)	2 mm	Front	6.38	7.94	98.36	1.245	1.016	1.21	2.190	3.480	3.351	5.324	-0.200	#103

U-NII-8 Band : Ant 1&2

Measured Frequency		Mode	Test distance	EUT Position	Average Power (mW)	Maximum Tune-Up Limit pwr (mW)	Duty Cycle	Scaling Factor (Tune up)	Scaling Factor (Duty)	Scaling Factor (Uncertainty)	Meas. psPDn+ (W/m ²) 4 cm ²	Meas. psPDtot+ (W/m ²) 4 cm ²	Reported psPDn+ (W/m ²) 4 cm ²	Reported psPDtot+ (W/m ²) 4 cm ²	Power Drift (dB)	Plot No.
MHz	CH															
6 985	207	802.11ax (HE160)	2 mm	Front	6.34	7.94	98.36	1.252	1.016	1.21	1.960	3.130	3.018	4.819	0.170	#104

Notes:

1. DUT was configured to transmit with a manufacturer provided test software to control specific antenna.
2. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to TCB workshop (2019, April). So total expanded uncertainty of 1.79 dB(50.86%) was used to determine the SPD measurement scaling factor.
3. Tune-up tolerance is refer to clause 2.4.

11.4 SAR Measurement Variability

Per KDB Publication 865664 D01, SAR measurement variability must be assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements.

These additional measurements were repeated after the completion of all measurements requiring the same head tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement to minimize any unexpected variations in the repeated results.

The same procedure 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 threshold.

SAR Measurement Variability procedure :

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.8 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 (~10% from the 1g 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 measurement is > 1.20 .

■ The original highest measured SAR(extremity SAR) is < 2.0 W/kg, So repeated measurement is not required.

SAR Test Note :

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013 and KDB Publication 447498 D04 for FCC.
2. Batteries are fully charged at the beginning of the SAR measurement.
3. The manufacturer has confirmed that the device tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB publication 447498 D04.
5. FCC has permitted the use of single head-tissue simulating liquid specified February 19, 2019 TCB workshop.
6. Per KDB 447498 D04, This is limited specifically to when the reported 1-g or 10-g SAR for the mid-band or highest output power channel meets any of the following conditions:
 - a) $SAR \leq 0.8 \text{ W/kg}$ of 1-g, or $SAR \leq 2.0 \text{ W/kg}$ for 10-g, when the transmission band span is $\leq 100 \text{ MHz}$
 - b) $SAR \leq 0.6 \text{ W/kg}$ of 1-g, or $SAR \leq 1.5 \text{ W/kg}$ for 10-g, when the transmission band span is between 100 MHz and 200 MHz
 - c) $SAR \leq 0.4 \text{ W/kg}$ of 1-g, or $SAR \leq 1.0 \text{ W/kg}$ for 10-g, when the transmission band span is $\geq 200 \text{ MHz}$When the maximum output power variation across the required test channels is $> 1/2 \text{ dB}$, instead of the middle channel, the highest output power channel must be used.
7. Justification for test configuration for 802.11 transmitter per KDB publication 248227 D01v02r02 for 5 GHz WiFi single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode is not required, due to the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg .

WiFi 6E PD Test Note :

1. Evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmWave near-field probe and total-field / power density reconstruction method(2 mm closest meas. plane).
2. Per interim procedures, the power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 1.79 dB(50.86%) was used to determine the psPD measurement scaling factor.
3. The absorbed power density(APD) using a 4 cm² averaging area is reported based on SAR measurements.
4. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.

11.5 Estimated SAR

When an antenna qualifies for test exemption in single transmitter/antenna mode, its actual SAR value may not be available, because it was not required to be measured. In this case, the SAR contribution of that antenna to simultaneous transmission must be estimated relative to the SAR or MPE based exemption criteria for the applicable terms in the equation, by multiplying the corresponding ratio by the SAR limit of 1.6 W/kg for 1-g SAR. This is referred to as estimated SAR.

The estimated SAR is used only to determine simultaneous transmission SAR test exemption, it shall not be reported as the standalone SAR.

According to KDB 447498 D04, the estimated SAR is given by the following equation:

$$SAR_{est} = SAR\ Limit \times \frac{P_{ant}}{P_{th}} \quad [W/kg]$$

For Bluetooth/BLE Estimated SAR,

SAR limit = 4.0 W/kg (for Extremity SAR)

$P_{ant} = 2.79\ mW$

$P_{th} = 6.97\ mW$ at 5 mm of separation distance (Refer to clause 2.5)

Test position	Distance[mm]	SAR _{est} [W/kg]
Front	5.00	1.601
Back	10.39	0.400
Right	5.00	1.601
Left	21.02	0.105

11.6 SAR Summation Analysis

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR of all simultaneous transmitting antennas in an operating mode and exposure condition combination is within the SAR limit(1.6 W/kg for SAR 1g and 4.0 W/kg for SAR 10 g), the simultaneous transmission SAR is not required.

When the sum of SAR is greater than the SAR limit, SAR test exclusion is determined by the SPLSR.

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous combination	Transmit Configuration
1	Bluetooth SISO Ant 1 + WLAN 5G MIMO Ant 1+2
2	Bluetooth SISO Ant 1 + WLAN 6G MIMO Ant 1+2

Notes:

1. The WLAN 5G and WLAN 6G cannot transmit simultaneously.

Exposure Position	1	2	3	1+2	1+3
	Bluetooth 2.4G Ant 1 SAR 10g (W/kg)	WLAN 5G Ant 1+2 SAR 10g (W/kg)	WLAN 6G Ant 1+2 SAR 10g (W/kg)	$\sum$ SAR 10g (W/kg)	$\sum$ SAR 10g (W/kg)
Front	1.601	2.016	0.465	3.617	2.066
Back	0.400	0.048	0.040	0.448	0.440
Left	0.105	0.447	0.353	0.552	0.458
Right	1.601	0.647	0.379	2.248	1.980

11.7 Total Exposure Ratio Analysis

The fields generated by the antennas can be correlated or uncorrelated. At different frequencies, fields are always uncorrelated, and the aggregate power density contributions can be summed according to spatially averaged values of corresponding sources at any point in space, r , to determine the total exposure ratio (TER). Assuming I source, the **TER** at each point in space is equal to

$$TER^{uncorr}(r) = \sum_{i=1}^I ER_i = \sum_{i=1}^I \frac{S_{av,i}(r, f_i)}{S_{lim}(f_i)}$$

Where $S_{av,i}$ is the power density for the source I operating at a frequency f_i and S_{lim} is the power density limit as specified by the relevant standard.

Exposure from transmitters operating above and below f_{tr} , where f_{tr} denotes the transition frequency where the basic restrictions change from being defined in terms of SAR to being defined in terms of power density, are therefore uncorrelated and the **TER** is determined as

$$TER^{uncorr}(r) = TER(r)_{f \leq f_{tr}} + TER(r)_{f > f_{tr}}$$

According to the Oct 2018 TCB Workshop and IEC TR 63170, Total exposure ratio calculated by taking ratio of reported SAR divided by SAR limit and adding it to measured power density divided by power density limit.

Numerical sum of the two ratios should be less than 1.

Exposure Position	1	2	3	1+2	1+3
	Bluetooth 2.4G Ant 1	WLAN 5G Ant 1+2	WLAN 6G Ant 1+2	Total Exposure Ratio	Total Exposure Ratio
	SAR 10g (W/kg)	SAR 10g (W/kg)	Total PD (W/m ²)		
Front	0.400	0.504	0.561	0.904	0.961

12. Conclusion

The SAR, APD & IPD evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. The results and statements relate only to the item(s) tested.

APPENDIX A. PLOTS OF SAR(APD) & IPD RESULTS

Measurement PLOT #S01

Measurement Report for MO3(Intraoral Scanner), FRONT, WLAN 5GHz, UID 10544 AAD, Channel 42 (5210.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5210.000, 42	3.62	4.53	34.8

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-22	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

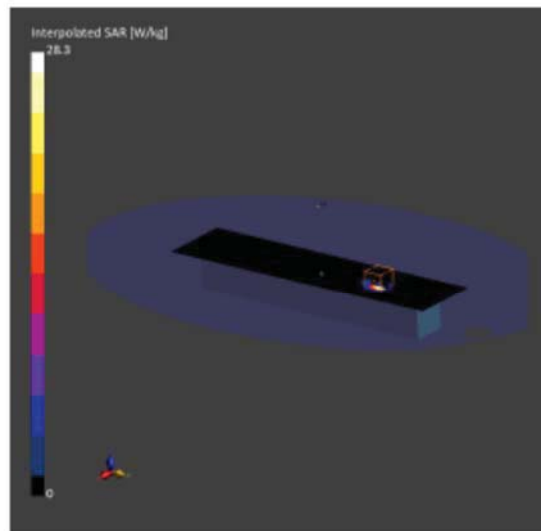
	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 340.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-22, 17:21	2025-04-22, 17:32
psSAR1g [W/kg]	3.39	3.69
psSAR10g [W/kg]	1.16	1.31
Power Drift [dB]	-0.03	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.6
Dist 3dB Peak [mm]		4.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S02

Measurement Report for MO3(Intraoral Scanner), BACK, WLAN 5GHz, UID 10544 AAD, Channel 42 (5210.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5210.000, 42	3.62	4.53	34.8

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBSL-600-10000 Charge:xxxx, 2025-Apr-22	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

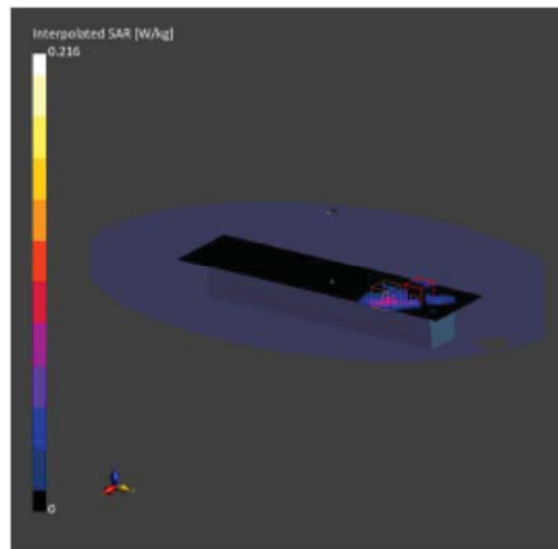
	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 340.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-23, 10:25	2025-04-23, 10:37
psSAR1g [W/kg]	0.062	0.052
psSAR10g [W/kg]	0.027	0.015
Power Drift [dB]	0.11	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.5
Dist 3dB Peak [mm]		3.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S03

Measurement Report for MO3(Intraoral Scanner), EDGE LEFT, WLAN 5GHz, UID 10544 AAD, Channel 42 (5210.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5210.000, 42	5.62	4.53	34.8

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-22	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

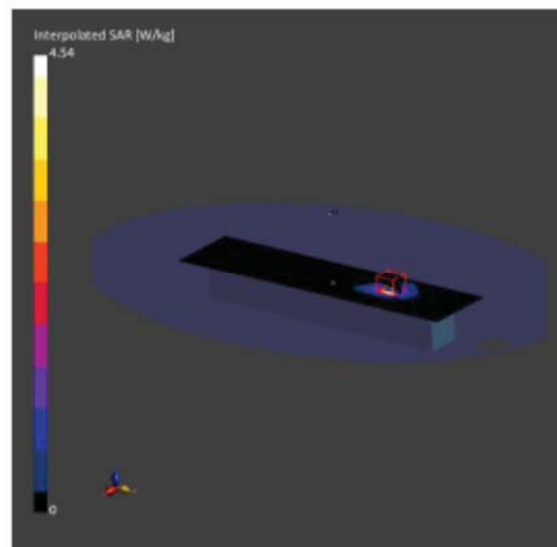
	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 340.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-23, 13:36	2025-04-23, 13:47
psSAR1g [W/kg]	1.08	1.18
psSAR10g [W/kg]	0.376	0.377
Power Drift [dB]	0.19	-0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		6.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S04

Measurement Report for MO3(Intraoral Scanner), EDGE RIGHT, WLAN 5GHz, UID 10544 AAD, Channel 42 (5210.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5210.000, 42	3.62	4.53	34.8

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-22	EX3DIV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

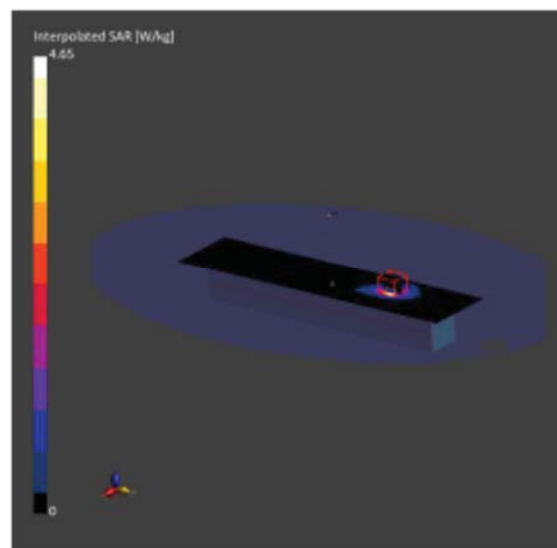
	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 340.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-23, 11:56	2025-04-23, 12:11
psSAR1g [W/kg]	1.09	1.19
psSAR10g [W/kg]	0.382	0.383
Power Drift [dB]	0.16	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		7.2

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S05

Measurement Report for MO3(Intraoral Scanner), FRONT, WLAN 5GHz, UID 10544 AAD, Channel 155 (5775.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.000, 155	5.15	5.19	33.9

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-22	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

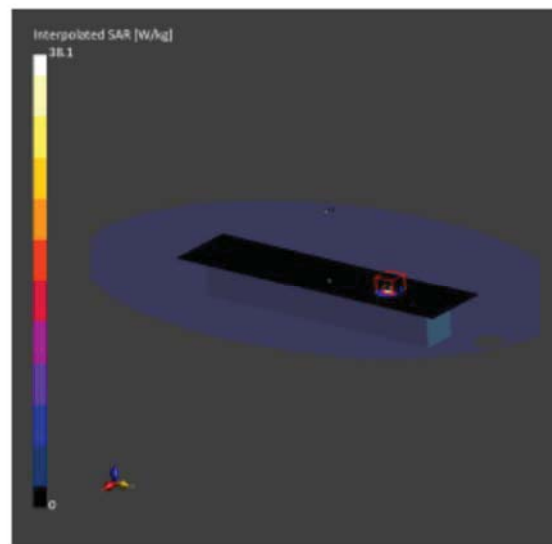
	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 340.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-23, 07:52	2025-04-23, 08:03
psSAR1g [W/kg]	5.30	7.24
psSAR10g [W/kg]	1.41	1.64
Power Drift [dB]	-0.12	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		5.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S06

Measurement Report for MO3(Intraoral Scanner), BACK, WLAN 5GHz, UID 10544 AAD, Channel 155 (5775.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.000, 155	5.15	5.33	34.1

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2023-Apr-23	EK3DV4 - SN3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

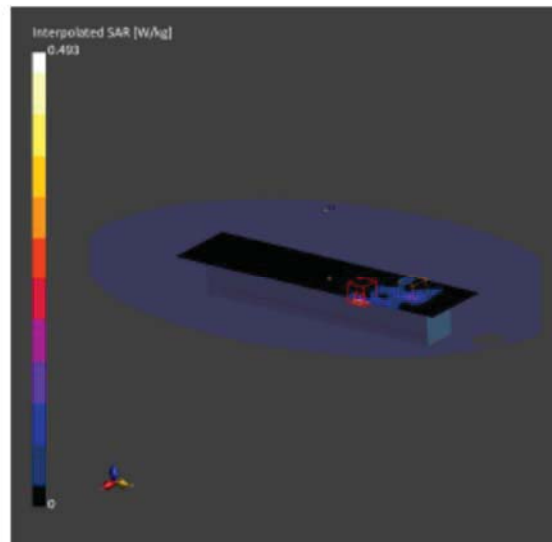
	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 340.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-23, 16:31	2023-04-23, 16:42
psSAR _{1g} [W/kg]	0.117	0.119
psSAR _{10g} [W/kg]	0.044	0.039
Power Drift [dB]	0.19	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		39.1
Dist 3dB Peak [mm]		12.2

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)	Peak 1g averaged SAR on boundary.	
Error(s)		



Measurement PLOT #S07

Measurement Report for MO3(Intraoral Scanner), EDGE LEFT, WLAN 5GHz, UID 10544 AAD, Channel 155 (5775.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.000, 155	3.15	3.33	34.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-23	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

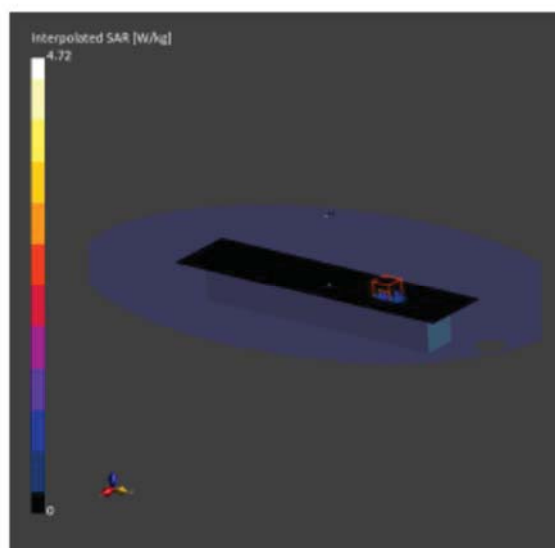
	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 340.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-23, 17:08	2025-04-23, 17:19
psSAR1g [W/kg]	0.964	1.05
psSAR10g [W/kg]	0.324	0.337
Power Drift [dB]	N/A	0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		37.4
Dist 3dB Peak [mm]		7.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S08

Measurement Report for MO3(Intraoral Scanner), EDGE RIGHT, WLAN 5GHz, UID 10544 AAD, Channel 155 (5775.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.000, 155	5.15	5.33	34.1

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-23	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

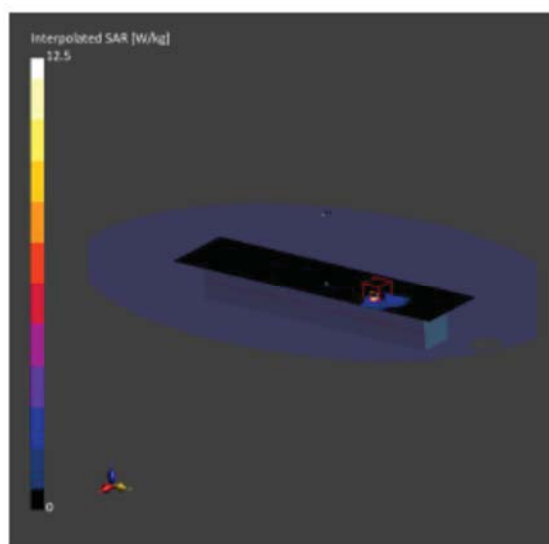
	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 340.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-23, 17:31	2025-04-23, 17:43
psSAR _{1g} [W/kg]	1.83	2.30
psSAR _{10g} [W/kg]	0.477	0.526
Power Drift [dB]	-0.14	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		5.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S09

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-5, UID 10755 AAC, Channel 15 (6025.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	U-NII-5	WLAN, 10755-AAC	6025.000, 15	5.25	5.55	34.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-May-08	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

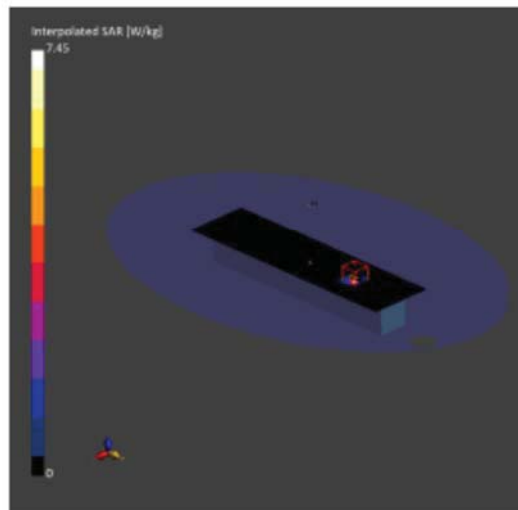
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-08, 19:24	2025-05-08, 19:37
psSAR1g [W/kg]	1.08	1.36
psSAR10g [W/kg]	0.269	0.309
psAPD (1.0cm2, sq) [W/m2]		13.6
psAPD (4.0cm2, sq) [W/m2]		7.40
Power Drift [dB]	0.04	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.7
Dist 3dB Peak [mm]		4.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S10

Measurement Report for MO3(Intraoral Scanner), BACK, U-NII-5, UID 10755 AAC, Channel 15 (6025.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	U-NII-5	WLAN, 10755-AAC	6025.000, 15	5.25	5.61	34.8

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBSL-600-10000 Charge:xxxx, 2025-Apr-24	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

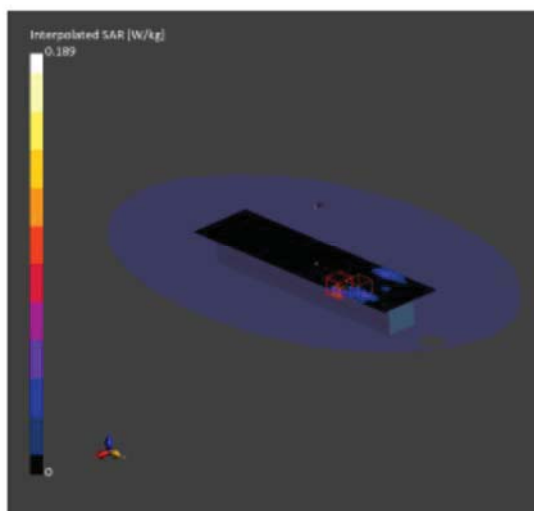
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 923.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-24, 16:07	2025-04-24, 16:22
psSAR1g [W/kg]	0.046	0.043
psSAR10g [W/kg]	0.016	0.017
psAPD (1.0cm2, sq) [W/m2]		0.433
psAPD (4.0cm2, sq) [W/m2]		0.387
Power Drift [dB]	N/A	0.18
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		34.5
Dist 3dB Peak [mm]		10.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S11

Measurement Report for MO3(Intraoral Scanner), EDGE LEFT, U-NII-5, UID 10755 AAC, Channel 15 (6025.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-5	WLAN, 10755-AAC	6025.000, 15	5.25	5.61	34.8

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-24	EK3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

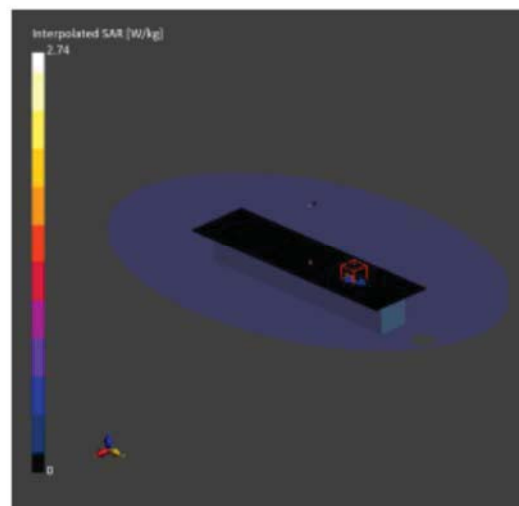
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-24, 13:50	2025-04-24, 14:05
psSAR1g [W/kg]	0.545	0.577
psSAR10g [W/kg]	0.159	0.166
psAPD (1.0cm2, sq) [W/m2]		3.77
psAPD (4.0cm2, sq) [W/m2]		3.82
Power Drift [dB]	0.14	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.3
Dist 3dB Peak [mm]		6.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S12

Measurement Report for MO3(Intraoral Scanner), EDGE RIGHT, U-NII-5, UID 10755 AAC, Channel 15 (6025.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-5	WLAN, 10755-AAC	6025.000, 15	5.25	5.61	34.8

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-24	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

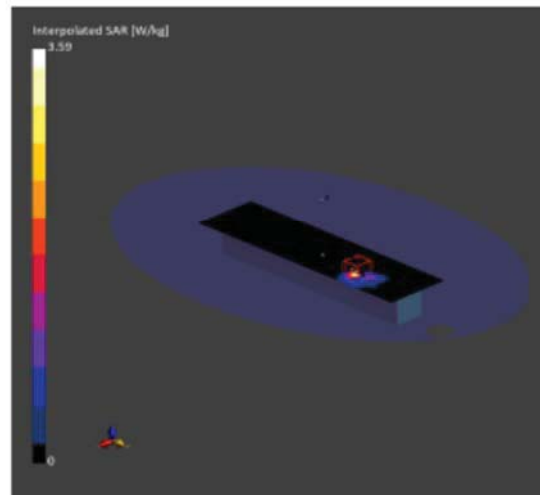
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-24, 15:28	2025-04-24, 15:42
psSAR1g [W/kg]	0.695	0.776
psSAR10g [W/kg]	0.199	0.206
psAPD (1.0cm2, sq) [W/m2]		7.76
psAPD (4.0cm2, sq) [W/m2]		4.82
Power Drift [dB]	-0.17	0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		6.2

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S13

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-5, UID 10755 AAC, Channel 47 (6185.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	U-NII-5	WLAN, 10755-AAC	6185.000, 47	5.25	5.78	34.3

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-May-08	EX3DV4 - SN3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

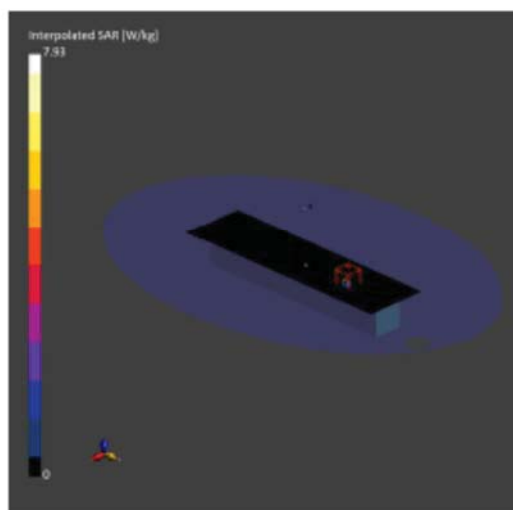
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

Date	Area Scan	Zoom Scan
	2023-05-08, 20:39	2023-05-08, 20:52
psSAR1g [W/kg]	1.07	1.37
psSAR10g [W/kg]	0.292	0.326
psAPD (1.0cm2, sq) [W/m2]		13.7
psAPD (4.0cm2, sq) [W/m2]		7.82
Power Drift [dB]	0.06	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		4.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S14

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-5, UID 10755 AAC, Channel 79 (6345.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	U-NII-5	WLAN, 10755-AAC	6345.000, 79	5.25	6.04	33.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI VB.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-May-08	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

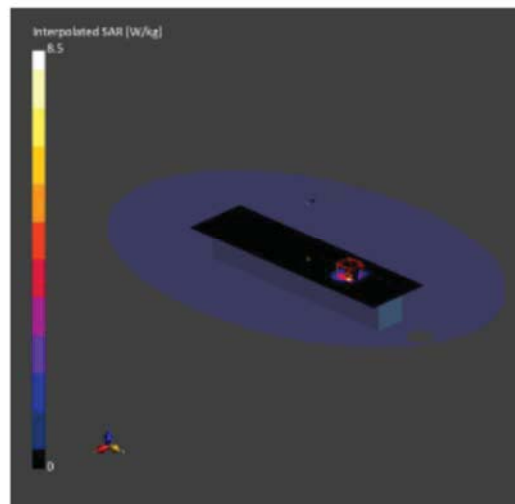
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-08, 20:02	2025-05-08, 20:16
psSAR1g [W/kg]	1.24	1.48
psSAR10g [W/kg]	0.374	0.393
psAPD (1.0cm2, sq) [W/m2]		14.8
psAPD (4.0cm2, sq) [W/m2]		9.29
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.3
Dist 3dB Peak [mm]		4.6

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S15

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-6, UID 10755 AAC, Channel 111 (6505.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	U-NII-6	WLAN, 10755-AAC	6505.000, 111	5.25	6.24	33.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2023-May-08	EX3DV4 - SN3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

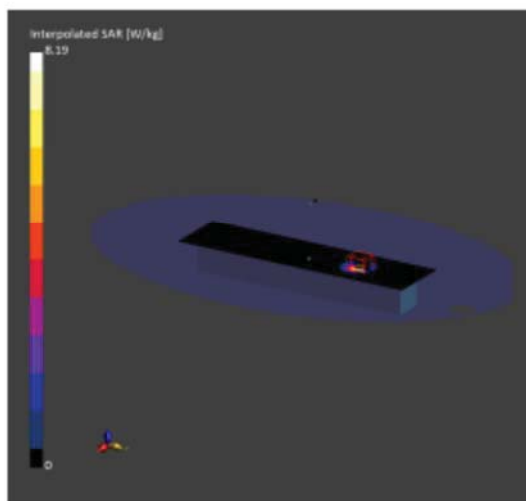
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	2.8 x 2.8 x 1.2
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.2
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-05-08, 21:06	2023-05-08, 21:31
psSAR1g [W/kg]	1.19	1.31
psSAR10g [W/kg]	0.393	0.380
psAPD (1.0cm2, sq) [W/m2]		13.1
psAPD (4.0cm2, sq) [W/m2]		9.07
Power Drift [dB]	0.00	0.20
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		4.5

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S16

Measurement Report for MO3(Intraoral Scanner), BACK, U-NII-6, UID 10755 AAC, Channel 111 (6505.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	U-NII-6	WLAN, 10755-AAC	6505.000, 111	3.23	6.16	34.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2023-Apr-28	EX3DV4 - 5N3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

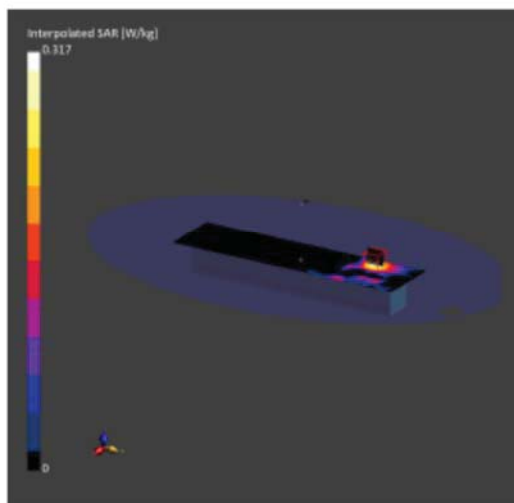
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-28, 13:54	2025-04-28, 14:09
psSAR1g [W/kg]	0.070	0.076
psSAR10g [W/kg]	0.030	0.033
psAPD (1.0cm2, sq) [W/m2]		0.757
psAPD (4.0cm2, sq) [W/m2]		0.728
Power Drift [dB]	0.10	0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		> 11.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S17

Measurement Report for MO3(Intraoral Scanner), EDGE LEFT, U-NII-6, UID 10755 AAC, Channel 111 (6505.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-6	WLAN, 10755-AAC	6505.000, 111	5.25	6.24	33.9

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-May-08	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

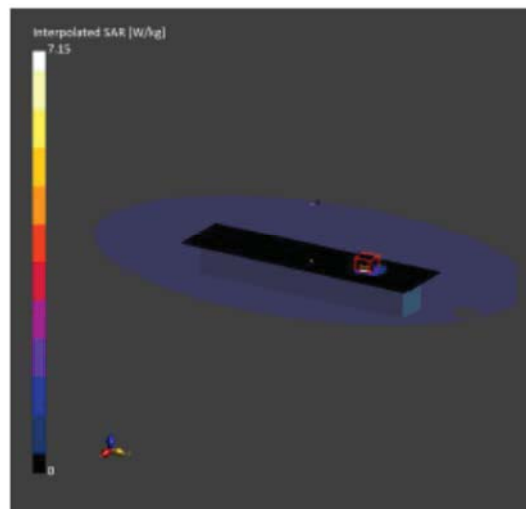
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-09, 14:20	2025-05-09, 14:40
psSAR1g [W/kg]	1.07	1.21
psSAR10g [W/kg]	0.296	0.292
psAPD (1.0cm2, sq) [W/m2]		12.1
psAPD (4.0cm2, sq) [W/m2]		6.86
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		5.2

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S18

Measurement Report for MO3(Intraoral Scanner), EDGE RIGHT, U-NII-6, UID 10755 AAC, Channel 111 (6505.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-6	WLAN, 10755-AAC	6505.000, 111	5.25	6.16	34.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-28	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

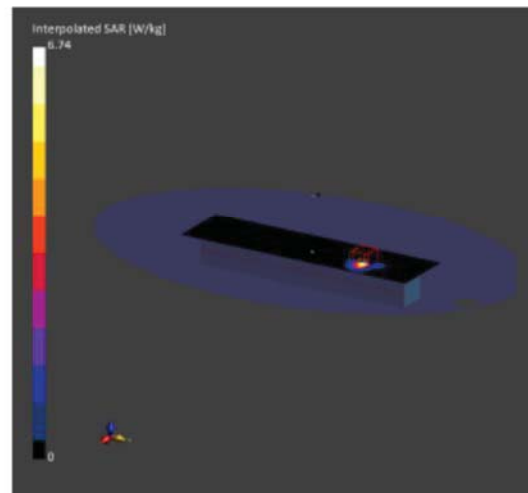
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-28, 13:22	2025-04-28, 13:37
psSAR1g [W/kg]	1.22	1.21
psSAR10g [W/kg]	0.386	0.314
psAPD (1.0cm2, sq) [W/m2]		12.1
psAPD (4.0cm2, sq) [W/m2]		7.51
Power Drift [dB]	0.05	-0.19
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		5.2

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S19

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-7, UID 10755 AAC, Channel 143 (6665.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	U-NII-7	WLAN, 10755-AAC	6665.000, 143	5.25	6.35	33.3

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V3.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-May-08	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

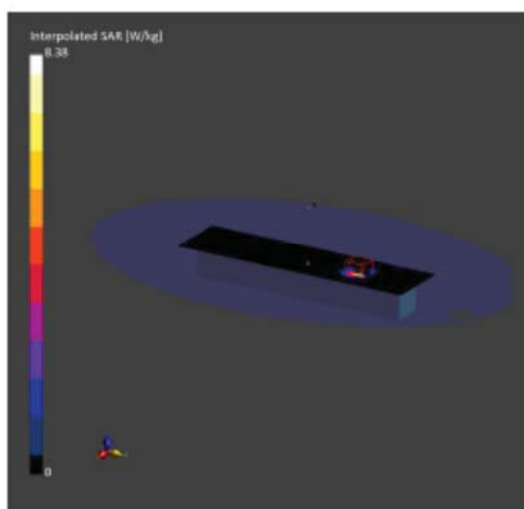
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	2.8 x 2.8 x 1.2
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.2
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-09, 12:10	2025-05-09, 12:34
psSAR1g [W/kg]	1.22	1.32
psSAR10g [W/kg]	0.356	0.344
psAPD (1.0cm2, sq) [W/m2]		13.2
psAPD (4.0cm2, sq) [W/m2]		8.19
Power Drift [dB]	-0.17	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		4.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S20

Measurement Report for MO3(Intraoral Scanner), BACK, U-NII-7, UID 10755 AAC, Channel 143 (6665.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	U-NII-7	WLAN, 10755-AAC	6665.000, 143	5.25	6.18	33.8

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI VS.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-28	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

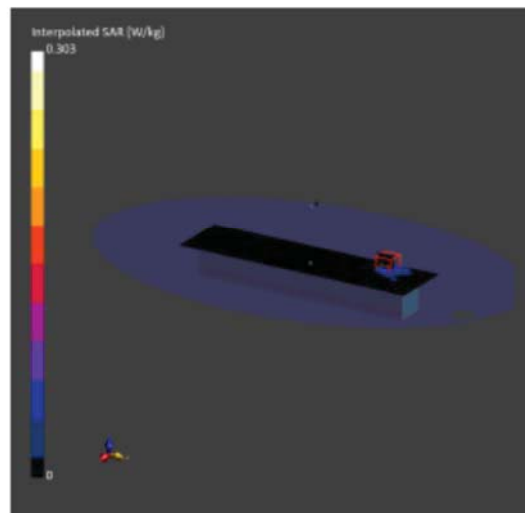
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-28, 19:10	2025-04-28, 19:28
psSAR _{1g} [W/kg]	0.062	0.068
psSAR _{10g} [W/kg]	0.026	0.029
psAPD (1.0cm ² , sq) [W/m ²]		0.681
psAPD (4.0cm ² , sq) [W/m ²]		0.641
Power Drift [dB]	0.13	0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.0
Dist 3dB Peak [mm]		16.5

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S21

Measurement Report for MO3(Intraoral Scanner), EDGE LEFT, U-NII-7, UID 10755 AAC, Channel 143 (6665.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-7	WLAN, 10755-AAC	6665.000, 143	5.25	6.35	33.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2023-May-08	EX3DV4 - SN3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

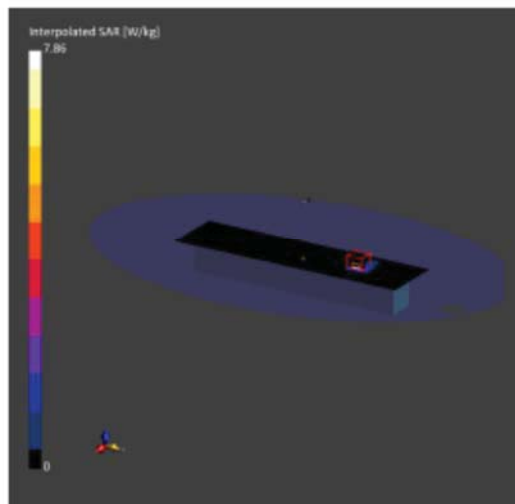
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-09, 12:59	2025-05-09, 13:19
psSAR _{1g} [W/kg]	1.17	1.32
psSAR _{10g} [W/kg]	0.321	0.319
psAPD (1.0cm ² , sq) [W/m ²]		13.2
psAPD (4.0cm ² , sq) [W/m ²]		7.49
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		5.5

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S22

Measurement Report for MO3(Intraoral Scanner), EDGE RIGHT, U-NII-7, UID 10755 AAC, Channel 143 (6665.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-7	WLAN, 10755-AAC	6665.000, 143	5.25	6.18	33.8

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-28	EX3DIV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

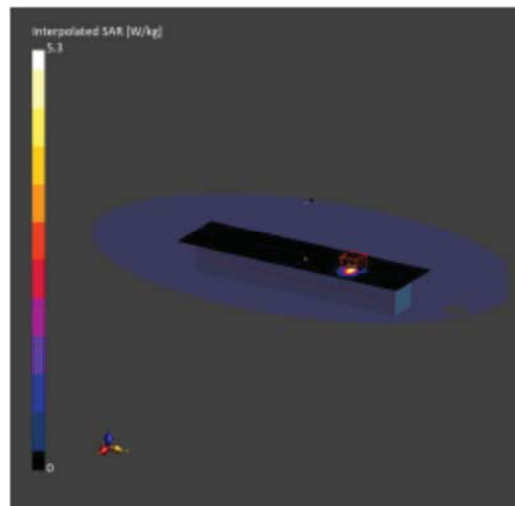
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-28, 17:58	2025-04-28, 18:18
psSAR1g [W/kg]	0.843	0.938
psSAR10g [W/kg]	0.256	0.230
psAPD (1.0cm2, sq) [W/m2]		9.38
psAPD (4.0cm2, sq) [W/m2]		3.35
Power Drift [dB]	-0.19	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.3
Dist 3dB Peak [mm]		5.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S23

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-7, UID 10755 AAC, Channel 175 (6825.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	U-NII-7	WLAN, 10755-AAC	6825.000, 175	5.25	6.52	33.6

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI VS.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-28	EK3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

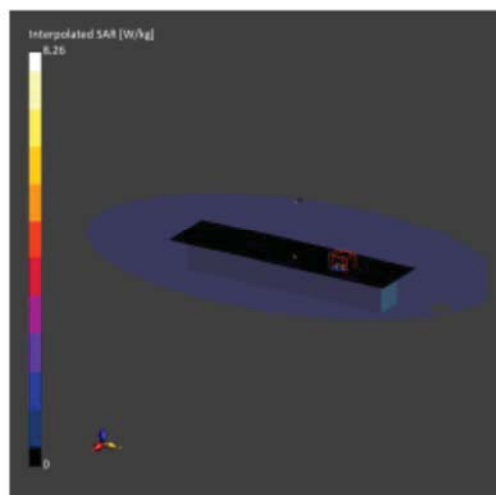
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-28, 16:01	2025-04-28, 16:16
psSAR _{1g} [W/kg]	1.06	1.27
psSAR _{10g} [W/kg]	0.377	0.333
psAPD (1.0cm ² , sq) [W/m ²]		12.7
psAPD (4.0cm ² , sq) [W/m ²]		7.81
Power Drift [dB]	-0.20	-0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.2
Dist 3dB Peak [mm]		4.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S24

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-8, UID 10755 AAC, Channel 207 (6985.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	U-NII-8	WLAN, 10755-AAC	6985.000, 207	5.25	6.64	33.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-28	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

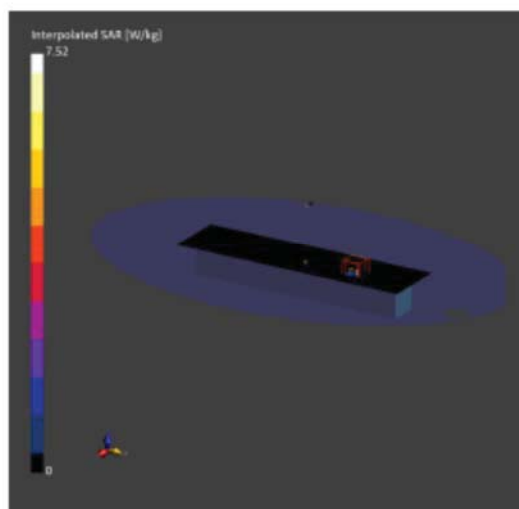
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	2.8 x 2.8 x 1.2
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.2
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-28, 20:10	2025-04-28, 20:34
psSAR1g [W/kg]	1.11	1.21
psSAR10g [W/kg]	0.352	0.329
psAPD (1.0cm2, sq) [W/m2]		12.1
psAPD (4.0cm2, sq) [W/m2]		7.72
Power Drift [dB]	0.14	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.0
Dist 3dB Peak [mm]		4.6

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S25

Measurement Report for MO3(Intraoral Scanner), BACK, U-NII-8, UID 10755 AAC, Channel 207 (6985.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	U-NII-8	WLAN, 10755-AAC	6985.000, 207	3.23	6.39	34.1

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI VS.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2023-Apr-29	EX3DV4 - SN3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

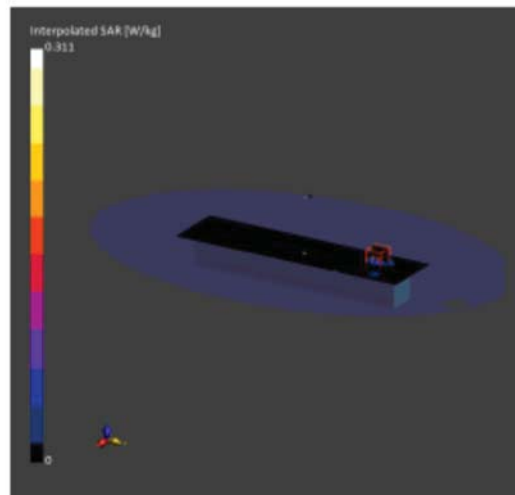
	Area Scan	Zoom Scan
Grid Extents [mm]	83.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.3 x 8.3	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-29, 12:26	2023-04-29, 12:41
psSAR1g [W/kg]	0.033	0.062
psSAR10g [W/kg]	0.021	0.024
psAPD [1.0cm2, sq] [W/m2]		0.622
psAPD [4.0cm2, sq] [W/m2]		0.337
Power Drift [dB]	0.16	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		33.8
Dist 3dB Peak [mm]		12.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S26

Measurement Report for MO3(Intraoral Scanner), EDGE LEFT, U-NII-8, UID 10755 AAC, Channel 207 (6985.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-8	WLAN, 10755-AAC	6985.000, 207	5.25	6.59	34.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2023-Apr-29	EX3DV4 - SN3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

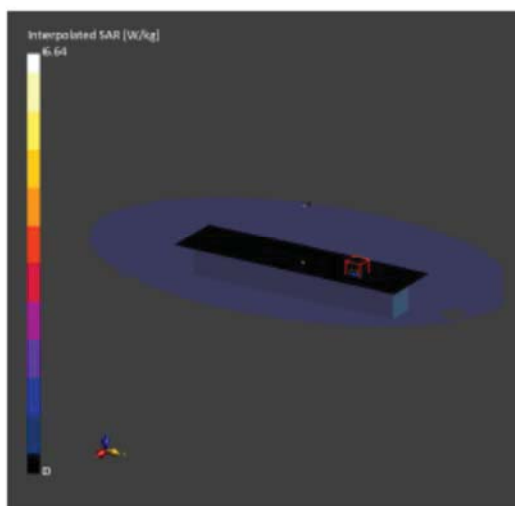
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-29, 10:48	2025-04-29, 11:02
psSAR1g [W/kg]	1.00	1.07
psSAR10g [W/kg]	0.262	0.268
psAPD (1.0cm2, sq) [W/m2]		10.7
psAPD (4.0cm2, sq) [W/m2]		6.32
Power Drift [dB]	0.12	0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.1
Dist 3dB Peak [mm]		5.2

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #S27

Measurement Report for MO3(Intraoral Scanner), EDGE RIGHT, U-NII-8, UID 10755 AAC, Channel 207 (6985.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-8	WLAN, 10755-AAC	6985.000, 207	5.25	6.59	34.1

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-29	EX3DIV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

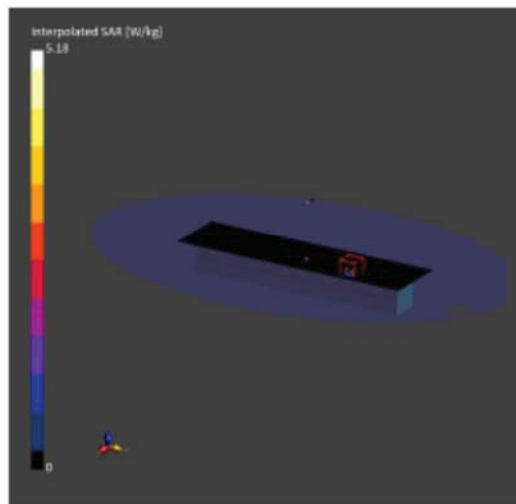
	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 323.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-29, 11:45	2025-04-29, 12:05
psSAR1g [W/kg]	0.741	0.902
psSAR10g [W/kg]	0.257	0.257
psAPD (1.0cm2, sq) [W/m2]		9.02
psAPD (4.0cm2, sq) [W/m2]		3.94
Power Drift [dB]	-0.08	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.8
Dist 3dB Peak [mm]		6.3

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #I01

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-5, UID 10755 AAC, Channel 47 (6185.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Medit, MO3(Intraoral Scanner)	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 2.00	U-NII-5	WLAN, 10755-AAC	6185.0, 47	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1099	---Air	EUmmWV4 - SN9537_F1-55GHz, 2024-05-03	DAE4 Sn672, 2024-08-16

Scan Setup

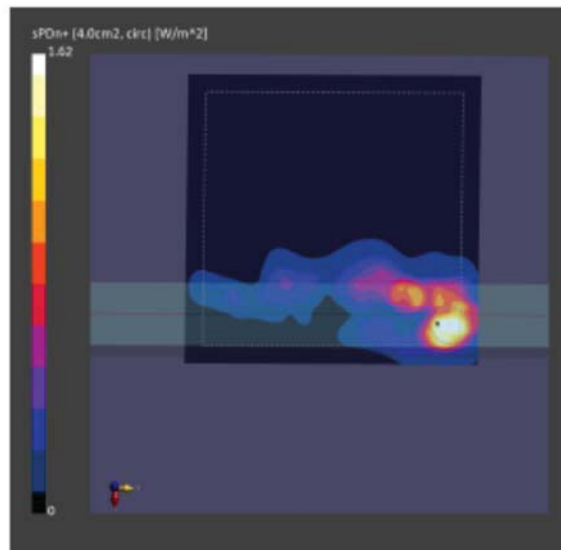
	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

	5G Scan
Date	2025-05-02, 19:09
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.62
psPDtot+ [W/m ²]	3.43
psPDmod+ [W/m ²]	7.53
E _{max} [V/m]	70.3
Power Drift [dB]	0.00

Warning(s) / Error(s)

Details	5G Scan
Warning(s)	
Error(s)	



Measurement PLOT #I02

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-6, UID 10755 AAC, Channel 111 (6505.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Medit, MO3(Intraoral Scanner)	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
3G Air	FRONT, 2.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1099	---Air	EUMmWV4 - SN9537_F1-55GHz, 2024-05-03	DAE4 Sn672, 2024-08-16

Scan Setup

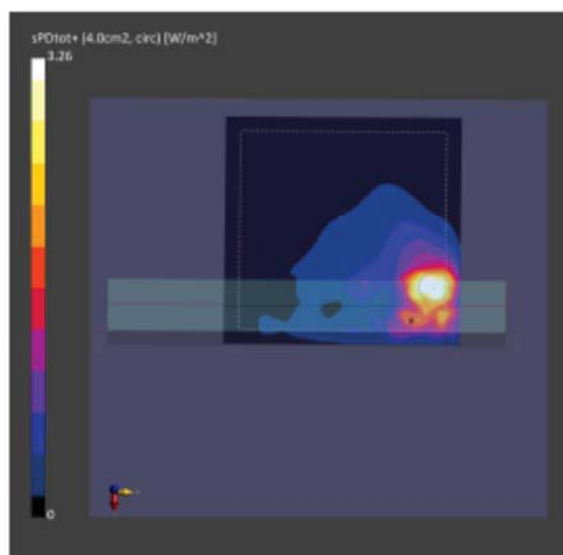
	SG Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

	SG Scan
Date	2025-05-01, 14:24
Avg. Area [cm ²]	4.00
psPDin+ [W/m ²]	1.68
psPDtot+ [W/m ²]	3.84
psPDmod+ [W/m ²]	8.17
E _{max} [V/m]	69.2
Power Drift [dB]	-0.11

Warning(s) / Error(s)

Details	SG Scan
Warning(s)	
Error(s)	



Measurement PLOT #I03

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-7, UID 10755 AAC, Channel 143 (6665.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Medit, MO3(Intraoral Scanner)	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 2.00	U-NII-7	WLAN, 10755-AAC	6665.0, 143	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1099	—Air	EUMmWV4 - SN9537_F1-55GHz, 2024-05-03	DAE4 Sn672, 2024-08-16

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	Y

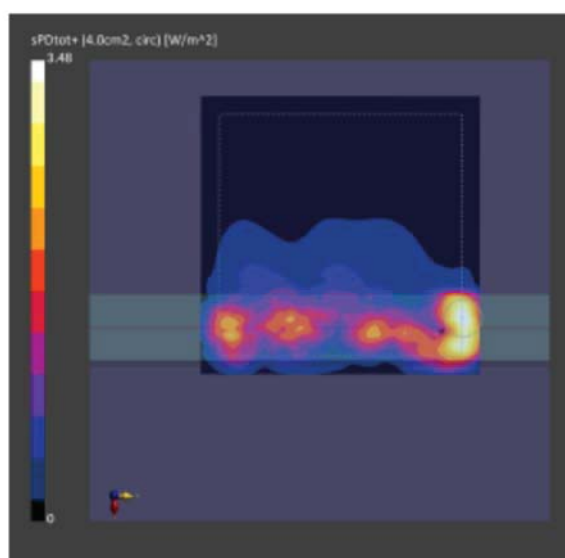
Measurement Results

	5G Scan
Date	2023-05-02, 17:46
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.19
psPDtot+ [W/m ²]	3.48
psPDmod+ [W/m ²]	8.05
E _{max} [V/m]	69.2
Power Drift [dB]	-0.20

Warning(s) / Error(s)

Details 5G Scan

Warning(s)
Error(s)



Measurement PLOT #I04

Measurement Report for MO3(Intraoral Scanner), FRONT, U-NII-8, UID 10755 AAC, Channel 207 (6985.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Medit, MO3(Intraoral Scanner)	292.0 x 40.0 x 40.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 2.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1099	---Air	EUmmWV4 - SN9337_F1-55GHz, 2024-05-03	DAE4 Sn672, 2024-08-16

Scan Setup

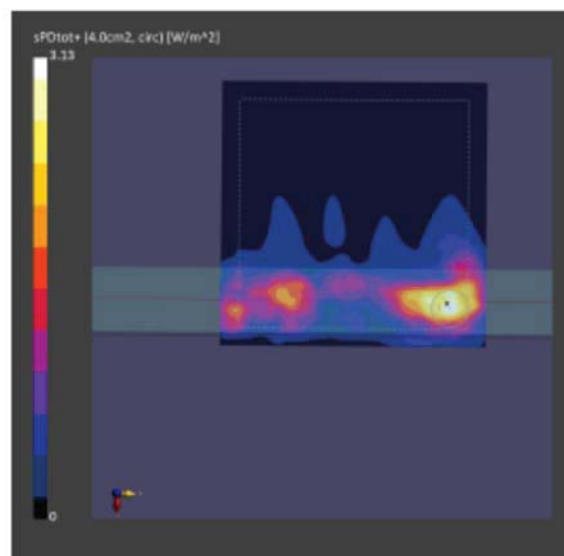
	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

	5G Scan
Date	2025-05-02, 13:32
Avg. Area [cm ²]	4.00
psPDin+ [W/m ²]	1.96
psPDtot+ [W/m ²]	3.13
psPDmod+ [W/m ²]	10.5
E _{max} [V/m]	81.9
Power Drift [dB]	0.17

Warning(s) / Error(s)

Details	5G Scan
Warning(s)	
Error(s)	



APPENDIX B. PLOTS OF SYSTEM VERIFICATION

Measurement PLOT #V01 (System Verification Results)

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D3GHzV2 - SN1146	5200.0	HSL	20.0	2.8	6.2	6.7	2.1

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	10		CW, 0--	5200.000, 0	3.62	4.53	34.8

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI VB.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2023-Apr-22	EX3DV4 - SN3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

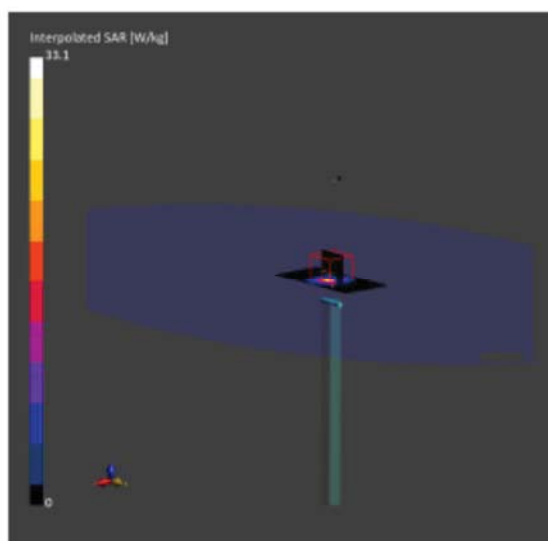
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-22, 15:03	2025-04-22, 15:13
psSAR1g [W/kg]	7.34	7.90
psSAR10g [W/kg]	2.09	2.30
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #V02 (System Verification Results)

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D3GHzV2 - SN1146	5800.0	HSL	20.0	-0.9	-0.6	10.9	2.5

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	10	CW, 0--		5800.000, 0	5.15	5.17	33.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-22	EX3DIV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

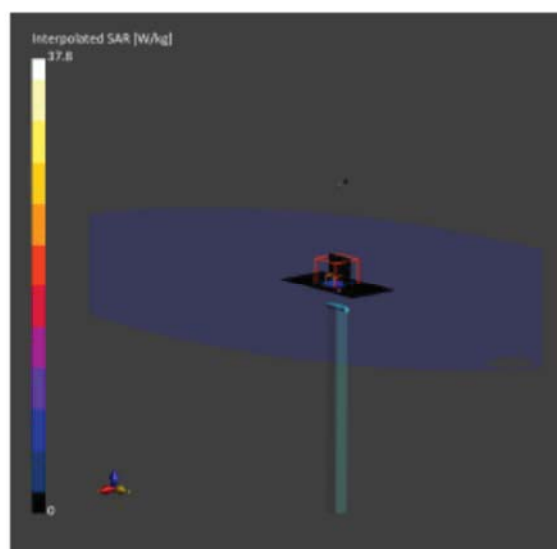
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-22, 15:30	2025-04-22, 15:39
psSAR1g [W/Kg]	6.85	7.93
psSAR10g [W/Kg]	2.06	2.24
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #V03 (System Verification Results)

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
03GHzV2 - SN1146	5800.0	HSL	20.0	-1.1	1.9	11.3	5.2

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	10		CW, 0--	5800.000, 0	5.13	5.29	34.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-23	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

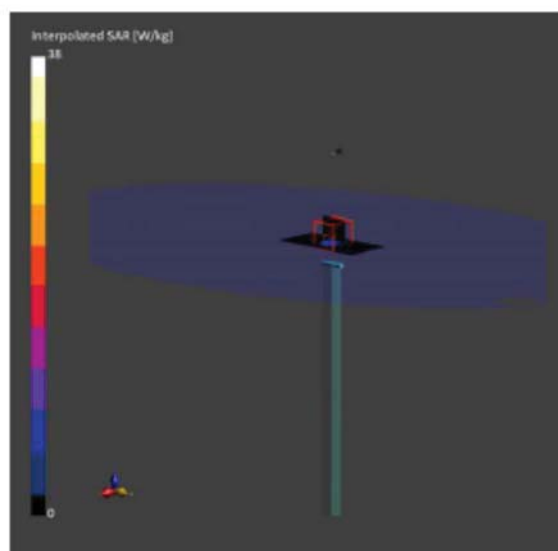
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-23, 15:44	2023-04-23, 15:34
psSAR1g [W/Kg]	7.20	7.91
psSAR10g [W/Kg]	2.06	2.29
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #V04 (System Verification Results)

Measurement Report for MO3(Intraoral Scanner), , , UID 0 -, Channel 0 (6500.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	N/A x N/A x N/A		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL			CW, 0--	6500.000, 0	5.25	6.31	34.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-24	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

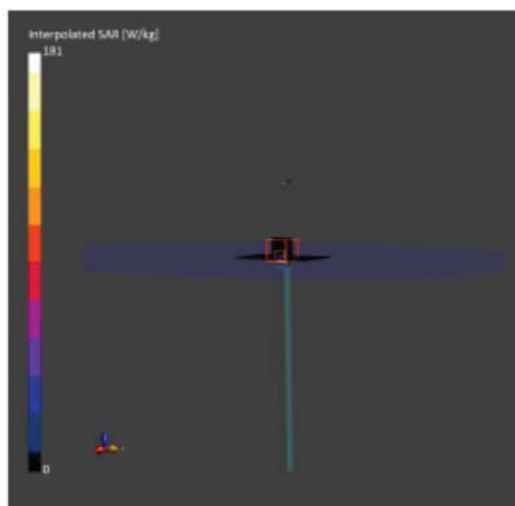
	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-24, 09:59	2025-04-24, 10:11
psSAR1g [W/kg]	21.9	28.3
psSAR10g [W/kg]	4.90	5.34
psAPD (1.0cm2, sq) [W/m2]		283
psAPD (4.0cm2, sq) [W/m2]		131
Power Drift [dB]	0.02	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		5.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #V05 (System Verification Results)

Measurement Report for MO3(Intraoral Scanner), , , UID 0 -, Channel 0 (6500.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	N/A x N/A x N/A		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL			CW, 0--	6500.000, 0	3.23	6.13	34.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI VS.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2023-Apr-28	EX3DV4 - 5N3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

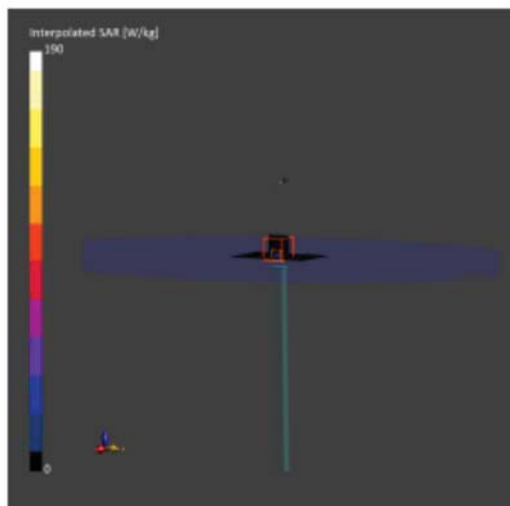
	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-28, 11:06	2023-04-28, 11:17
psSAR1g [W/kg]	24.9	29.7
psSAR10g [W/kg]	3.07	3.62
psAPD (1.0cm2, sq) [W/m2]		297
psAPD (4.0cm2, sq) [W/m2]		137
Power Drift [dB]	0.03	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.0
Dist 3dB Peak [mm]		4.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #V06 (System Verification Results)

Measurement Report for MO3(Intraoral Scanner), , , UID 0 -, Channel 0 (6500.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	N/A x N/A x N/A		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL			CW, 0--	6500.000, 0	5.25	6.13	35.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-Apr-29	EX3DV4 - SN3947, 2025-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

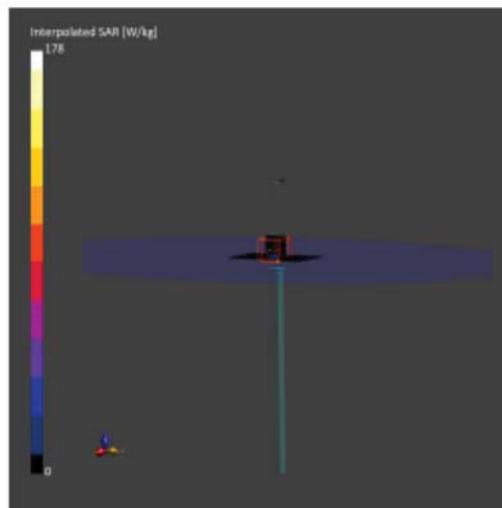
	Area Scan	Zoom Scan
Grid Extents [mm]	31.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-04-29, 09:52	2025-04-29, 10:04
psSAR1g [W/kg]	24.9	28.6
psSAR10g [W/kg]	5.10	5.36
psAPD (1.0cm2, sq) [W/m2]		286
psAPD (4.0cm2, sq) [W/m2]		136
Power Drift [dB]	0.03	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.2
Dist 3dB Peak [mm]		5.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #V07 (System Verification Results)

Measurement Report for MO3(Intraoral Scanner), , , UID 0 -, Channel 0 (6500.000MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
MO3(Intraoral Scanner), Medit	N/A x N/A x N/A		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Fiat, HSL			CW, 0--	6500.000, 0	5.25	6.24	33.9

Hardware Setup

Phantom	TSL Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI VS.0 (20deg probe tilt) - 2170	HBBL-600-10000 Charge:xxxx, 2025-May-08	EX3DV4 - SN3947, 2023-02-19	DAE4 Sn672, 2024-08-16

Scan Setup

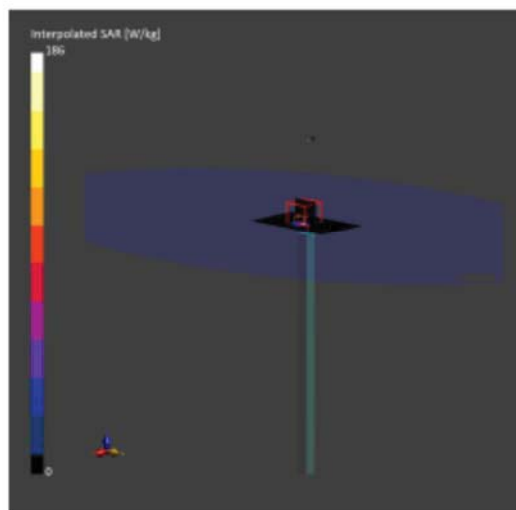
	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 83.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.3 x 8.3	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-05-08, 17:43	2025-05-08, 17:55
psSAR1g [W/kg]	24.7	28.9
psSAR10g [W/kg]	3.08	3.43
psAPD (1.0cm2, sq) [W/m2]		289
psAPD (4.0cm2, sq) [W/m2]		133
Power Drift [dB]	0.05	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.8
Dist 3dB Peak [mm]		4.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement PLOT #V08 (System Verification Results)

Measurement Report for Device, FRONT, Validation band, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, Device	100.0 x 100.0 x 172.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 10 mm	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1099	---Air	EUmmWV4 - SN9537_F1-55GHz, 2024-05-03	DAE4 Sn672, 2024-08-16

Scan Setup

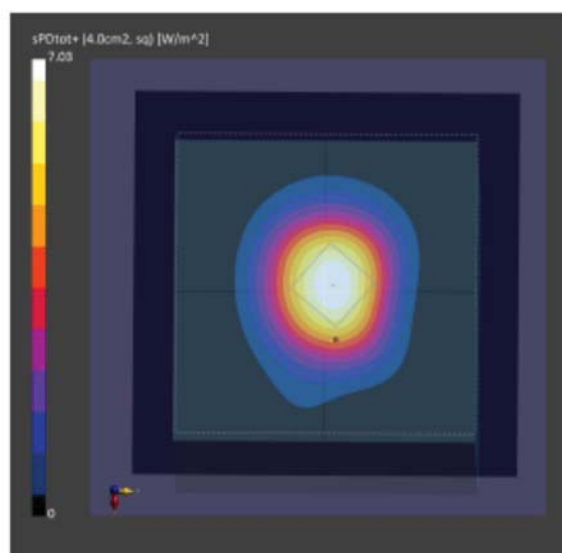
	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	Y

Measurement Results

	5G Scan
Date	2025-05-01, 08:01
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	6.90
psPDtot+ [W/m ²]	7.03
psPDmod+ [W/m ²]	7.09
E _{max} [V/m]	34.7
Power Drift [dB]	0.13

Warning(s) / Error(s)

Details	5G Scan
Warning(s)	
Error(s)	



Measurement PLOT #V09 (System Verification Results)

Measurement Report for Device, FRONT, Validation band, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, Device	100.0 x 100.0 x 172.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 10 mm	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1099	--Air	EUMmWV4 - SN9537_F1-55GHz, 2024-05-03	DAE4 Sn672, 2024-08-16

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	Y

Measurement Results

	5G Scan
Date	2025-05-02, 10:07
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	6.73
psPDtot+ [W/m ²]	6.81
psPDmod+ [W/m ²]	6.86
E _{max} [V/m]	33.9
Power Drift [dB]	0.18

Warning(s) / Error(s)

Details	5G Scan
Warning(s)	
Error(s)	

