

SAR Test Report - New Certification

Applicant:



L3Harris Corporation
221 Jefferson Ridge Parkway
Lynchburg, VA, 24501
USA

FCC ID:

OWDTR-0179-E

Product Name / PMN

XL-200P, XL-185P, XL-150P

Maximum reported 1g SAR

TNF	BODY:	5.18	W/kg
	FACE:	2.12	
PCS	BODY:	1.55	
	FACE:	<0.1	
DTS	BODY:	<0.1	
	FACE:	<0.1	
DSS	BODY:	<0.1	
	FACE:	<0.1	
NII	BODY:	<0.1	
	FACE:	0.17	
Simultaneous Face:		6.73	
Simultaneous Body:		2.15	
Occupational Limit:		8.00	

Product Model Number / HVIN

see Section 2.0

In Accordance With:

FCC 47 CFR §2.1093

Radiofrequency Radiation Exposure Evaluation: Portable Devices

Approved By:



Ben Hewson, President

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 Canada



Test Lab Certificate: 2470.01



IC Registration 3874A

Industry
Canada



FCC Registration: CA3874

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1.0 REVISION HISTORY

Revision History				
Samples Tested By:		Ben Hewson Trevor Whillock	Date(s) of Evaluation:	10 Feb - 11 Jun, 29 Sep 2025
Samples Tested By:		Ben Hewson	Date(s) of Evaluation:	29 Sep - 2 Oct 2025
Report Prepared By:		Ben Hewson	Report Reviewed By:	Art Voss
Report Revision	Description of Revision	Revised Section	Revised By	Revision Date
0.1	Draft	n/a	Art Voss	16 June 2025
0.2	14038-1010-01 & 14038-1011-01 variant wc checks	2, 3, 7, 10, 15, 16	Ben Hewson	7 October 2025
0.3	Draft revised	n/a	Ben Hewson	9 October 2025
0.4	correct table footer , edits to tables	7.1, 7.3, 7.18 & 10.14-10.16	Ben Hewson	14 October 2025
1.0	Initial Release	n/a	Art Voss	15 Ocotober 2025
2.0	Revised DUT HVIN List - Part 1 of 8 ONLY	2	Art Voss	8 January 2026
	Revised Battery Accessory List - Part 1 of 8 ONLY	9		
3.0	Revised Frequency Range	2	Art Voss	26 January 2026
4.0	Added 3700MHz Dipole to Equipment List	pg 103	Art Voss	5 March 2026
	Revised Equipment List	pg 103		
	Added 1800MHz and 1900MHz Dipole Certs	Part 5 of 8		
	Removed 450MHz SPC dated 10/2/2025	pg161		
	Corrected B12 Plot	pg 139		
	Corrected Plots RE: Sensor Distance	ppg 111, 119, 126		
	Corrected Plot B112Z	pg 137		
5.0	Corrected SPC Plot 835MHz	pg 130	Art Voss	18 March 2026
	Corrected FCC ID	pg 7		

2.0 APPLICANT AND DEVICE INFORMATION

Client Information	
Applicant Name	L3Harris Corporation
Applicant Address	221 Jefferson Ridge Parkway
	Lynchburg, VA, 24501
	USA
DUT Information	
Device Identifier(s):	FCC ID: OWDTR-0179-E
Device Marketing Name / PMN:	XL-200P, XL-185P, XL-150P
Test Sample Serial No.:	A40342000010 - OTA
	A40342F00069 - OTA
	A40342F00130 - Non-LTE
	A40346000003 - Conducted
	A4034D00003 - OTA (14038-1010-01)
	A4034BD00004/00005 - OTA (14038-1011-01)
	A4034BD00003 - Conducted
Equipment Class (FCC):	Licensed Non-Broadcast Transmitter Held to Face (TNF) FCC Part 90 - LMRS
	Digital Transmission System (DTS) FCC Part 15C - WiFi
	Spread Spectrum Transmitter (DSS) FCC Part 15C - BT
	Unlicensed National Information Infrastructure (NII) FCC Part 15E - WiFi
Transmit Frequency Range (FCC):	VHF Band: 136 - 174MHz
	UHF Band: 378 - 522MHz
	700 Band: 769 - 775MHz, 799 - 805MHz
	800 Band: 806 - 824MHz, 851 - 869MHz
Number of Channels:	Programmable
Transmitter Rated Power (Max): Including Tune-Up Tolerance	VHF Band: 6.0W (37.8dBm) +/-1.0dB
	UHF Band: 5W (37.0dBm) +/-1.0dB
	700 Band: 2.5W (34.0dBm) +/-1.0dB
	800 Band: 3.0W (34.8dBm) +/-1.0dB
	BT: 0.005W (6.9dBm)
	WLAN 2.4G: 0.0243W (23.85dBm)
	WLAN 5G: 5180-5240MHz 0.050W (16.98dBm)
WLAN 5G: 5745-5825MHz 0.070W (18.43dBm)	
Duty Cycle:	BT/WLAN/LTE: 100%, LMR: 50% PTT Duty Cycle
DUT Power Source:	7.4VDC Li-Ion Rechargeable Battery, AA Alkaline Battery
Deviation(s) from standard/procedure:	None
Modification of DUT:	None

Client Information		
Applicant Name	L3Harris Corporation	
Applicant Address	221 Jefferson Ridge Parkway	
	Lynchburg, VA, 24501	
	USA	
DUT Information		
Device Identifier(s):	FCC ID:	OWDTR-0179-E
Device Marketing Name / PMN:	XL-200P, XL-185P, XL-150P	
Device Model(s) / HVIN:	Full Keypad	Partial Keypad
EM 7595 LTE Modem	14038-1010-01	14038-1010-011
	14038-1010-02	14038-1010-012
	14038-1010-03	14038-1010-013
EM 7511 LTE Modem	14038-1011-01	14038-1011-011
Non-LTE Variant	14038-1020-01	14038-1020-011
	14038-1020-02	14038-1020-012
	14038-1020-03	14038-1020-013

Integrated Module Information		
Module Manufacturer:	Sierra Wireless Inc.	
Device Identifier(s):	FCC ID:	N7NEM75Y
	IC ID:	2417C-EM75Y
Device Type:	LTE Module ⁽³⁾	
Module Device Model(s) / HVIN:	EM7595	
Equipment Class (FCC):	PCS Licensed Transmitter	
Equipment Class (ISED):	Cellular Network - Other Portable Device	
Transmit Frequency Range: ⁽¹⁾⁽²⁾	LTE Band 1: 1920 - 1980MHz	
	LTE Band 2: 1850 - 1910MHz	
	LTE Band 3: 1710 - 1785MHz	
	LTE Band 4: 1710 - 1755MHz	
	LTE Band 5: 824 - 849MHz	
	LTE Band 7: 2500 - 2570MHz	
	LTE Band 8: 880 - 9140MHz	
	LTE Band 12: 699 - 716MHz	
	LTE Band 13: 777-787MHz	
	LTE Band 14: 788 - 798MHz	
	LTE Band 25: 1850 - 1915MHz	
	LTE Band 26: 814 - 849MHz	
	LTE Band 28: 703 - 748MHz	
	LTE Band 40: 2300 - 2400MHz	
	LTE Band 41: 2496 - 2690MHz	
	LTE Band 48: 3600 - 3700MHz	
	LTE Band 66: 1710 - 1780MHz	
	LTE Band 71: 663 - 698MHz	
	LTE Band 106: 896 - 901MHz	
Nominal Output Power:	200mW (23dBm)	

(1) The transmit modes and/or frequency bands indicated are those utilized by the host integrator and may not be indicative of all modes and/or frequency bands available for the modular device.

(2) Uplink frequencies.

(3) LTE: 3GPP Release 11. Carrier Aggregation supported for downlink Only.

Note: Per FCC KDB 941225, a PAG is not required for downlink-only carrier aggregation.

Integrated Module Information		
Module Manufacturer:	Sierra Wireless Inc.	
Device Identifier(s):	FCC ID:	N7NEM75S
	IC ID:	2417C-EM75S
Device Type:	LTE Module ⁽³⁾	
Module Device Model(s) / HVIN:	EM7511	
Equipment Class (FCC):	PCS Licensed Transmitter	
Equipment Class (ISED):	Cellular Network - Other Portable Device	
Transmit Frequency Range: ⁽¹⁾⁽²⁾	LTE Band 1: 1920 - 1980MHz	
	LTE Band 2: 1850 - 1910MHz	
	LTE Band 3: 1710 - 1785MHz	
	LTE Band 4: 1710 - 1755MHz	
	LTE Band 5: 824 - 849MHz	
	LTE Band 7: 2500 - 2570MHz	
	LTE Band 8: 880 - 9140MHz	
	LTE Band 12: 699 - 716MHz	
	LTE Band 13: 777-787MHz	
	LTE Band 14: 788 - 798MHz	
	LTE Band 25: 1850 - 1915MHz	
	LTE Band 26: 814 - 849MHz	
	LTE Band 28: 703 - 748MHz	
	LTE Band 40: 2300 - 2400MHz	
	LTE Band 41: 2496 - 2690MHz	
	LTE Band 48: 3600 - 3700MHz	
	LTE Band 66: 1710 - 1780MHz	
	LTE Band 71: 663 - 698MHz	
	LTE Band 106: 896 - 901MHz	
Nominal Output Power:	200mW (23dBm)	

(1) The transmit modes and/or frequency bands indicated are those utilized by the host integrator and may not be indicative of all modes and/or frequency bands available for the modular device.

(2) Uplink frequencies.

(3) LTE: 3GPP Release 11. Carrier Aggregation supported for downlink Only.

Note: Per FCC KDB 941225, a PAG is not required for downlink-only carrier aggregation.

3.0 SCOPE OF EVALUATION

This Certification Report was prepared on behalf of:

L3Harris Corporation

,(the '*Applicant*'), in accordance with the applicable Federal Communications Commission (FCC) CFR 47 and Innovation, Scientific and Economic Development (ISED) Canada rules parts and regulations (the '*Rules*'). The scope of this investigation was limited to only the equipment, devices and accessories (the '*Equipment*') supplied by the *Applicant*. The tests and measurements performed on this *Equipment* were only those set forth in the applicable *Rules* and/or the Test and Measurement Standards they reference. The *Rules* applied and the Test and Measurement Standards used during this evaluation appear in the Normative References section of this report. The limits set forth in the technical requirements of the applicable *Rules* were applied to the measurement results obtained during this evaluation and ,unless otherwise noted, these limits were used as the Pass/Fail criteria. The Pass/Fail statements made in this report apply to only the tests and measurements performed on only the *Equipment* tested during this evaluation. Where applicable and permissible, information including test and measurement data and/or results from previous evaluations of same or similar equipment, devices and/or accessories may be cited in this report.

As per FCC 47 CFR Part §2.1091 and §2.1093, an RF Exposure evaluation report is required for this *Equipment* and the results of the RF Exposure evaluation appear in this report.

Device Description:

The XL-200P, FCC ID: **OWDTR-0179-E** , is a multi-band VHF/UHF/7/800 Push-To-Talk (PTT), Land Mobile Radio Service (LMRS) transceiver intended for Occupational Use. This device has 2 variants one "host" the LTE unit, employs WiFi, Bluetooth and LTE transceivers, the other unit is a Non-LTE unit , and is identical yet does not have LTE transceivers. The form factor is identical between the units, with the exception that the Non-LTE unit is does not have the LTE bump-out, that houses the LTE transmitters.

Application:

This is an application for a New Certification.

Scope:

The scope of this investigation is to evaluate the SAR for intended use applications. It will include an extensive evaluation of the LMR, LTE, WiFi and Bluetooth transmitter and all simultaneous transmission conditions that can occur with this host device. The analysis of the Standalone and Simultaneous Transmission SAR if found in Section 11.0 of this report.

The Test Plan developed for this evaluation was based on the test channels and configurations which produced the highest SAR of the XL-200P and where applicable, SAR test reduction and/or SAR test exclusion was utilized. The LTE Variant was tested in entirety, and the Non-LTE unit was tested based on the worse case configurations of the LTE unit. The DUT was evaluated for SAR at the maximum tune up tolerance and conducted output power level, preset by the manufacturer and in accordance with the procedures described in IEC/IEEE 62209-1528, FCC KDB 447498, 643646, 248227, 941225. Initial testing on the prototype was completed and subsequent component changes were made to the antenna switch, as well an additional variant with a pin-for-pin change to the LTE module (EM7511). Further SAR evaluations were undertaken on these variants based on the worse case SAR initially evaluated.

4.0 NORMATIVE REFERENCES

Normative References*	
ANSI / ISO 17025:2017	General Requirements for competence of testing and calibration laboratories
FCC CFR Title 47 Part 2 Title 47: Part 2.1093:	Code of Federal Regulations Telecommunication Radiofrequency Radiation Exposure Evaluation: Portable Devices
Health Canada Safety Code 6 (2015)	Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3kHz to 300GHz
Industry Canada Spectrum Management & Telecommunications Policy RSS-102 Issue 6:	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
IEEE International Committee on Electromagnetic Safety IEC/IEEE 62209-1528	frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
FCC KDB KDB 248227 D01v02r02	SAR Guidance for IEEE 802.11 (WiFi) Transmitters
FCC KDB KDB 447498 D01v06	Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies
FCC KDB KDB 643646 D01v01r03	SAR Test Reduction Considerations for Occupational PTT Radios
FCC KDB KDB 690783 D01v01r03	SAR Listings on Equipment Authorization Grants
FCC KDB KDB 865664 D01v01r04	SAR Measurement Requirements for 100MHz to 6GHz
FCC KDB KDB 941225 D05v02r05	SAR Evaluation Considerations for LTE Devices
* When the issue number or issue date is omitted, the latest version is assumed.	

5.0 STATEMENT OF COMPLIANCE

This measurement report demonstrates that samples of the product model(s) were evaluated for Specific Absorption Rate (SAR) on the date(s) shown, in accordance with the Measurement Procedures cited and were found to comply with the Standard(s) Applied based on the Exposure Limits of the Use Group indicated for which the product is intended to be used.

Applicant: L3Harris Corporation	Model Name / PMN: XL-200P	
Standard(s) Applied: FCC 47 CFR §2.1093	Measurement Procedure(s): FCC KDB 865664, FCC KDB 447498, FCC KDB 643646, FCC KDB 248227 IEC/IEEE 62209-1528	
Reason For Issue: ☒ New Certification ☐ Class I Permissive Change ☐ Class II Permissive Change	Use Group: ☐ General Population / Uncontrolled ☒ Occupational / Controlled	Limits Applied: ☐ 1.6W/kg - 1g Volume ☒ 8.0W/kg - 1g Volume ☐ 4.0W/kg - 10g Volume
Reason for Change: New Certification		Date(s) Evaluated: 10 February - 11 June 2025 29 September - 7 October 2025

The results of this investigation are based solely on the test sample(s) provided by the applicant which was not adjusted, modified or altered in any manner whatsoever except as required to carry out specific tests or measurements. A description of the device, operating configuration, detailed summary of the test results, methodologies and procedures used during this evaluation, the equipment used and the various provisions of the rules are included in this test report.

I attest that the data reported herein is true and accurate within the tolerance of the Measurement Instrument Uncertainty; that all tests and measurements were performed in accordance with accepted practices or procedures; and that all tests and measurements were performed by me or by trained personnel under my direct supervision. The results of this investigation are based solely on the test sample(s) provided by the client which were not adjusted, modified or altered in any manner whatsoever, except as required to carry out specific tests or measurements. This test report has been completed in accordance with ISO/IEC 17025.



Ben Hewson
Celltech Labs Inc.

9 October 2025
Date

6.0 SAR MEASUREMENT SYSTEM

SAR Measurement System

Celltech Labs Inc. SAR measurement facility employs a Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY6 measurement system is comprised of the measurement server, a robot controller, a computer, a near-field probe, a probe alignment sensor, an Elliptical Planar Phantom (ELI) phantom and a specific anthropomorphic mannequin (SAM) phantom for Head and/or Body SAR evaluations. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller and a teach pendant (Joystick) to control the robot's servo motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical form the DAE to digital electronic signal and transfers data to the DASY6 measurement server. The DAE4 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter, a command decoder and a control logic unit. Transmission to the DASY6 measurement server is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot utilizes a controller with built in VME-bus computer.



DASY 6 SAR System



DASY 6 Measurement Controller

7.0 RF CONDUCTED POWER MEASUREMENT

Table 7.1 Conducted Power Measurements TNF – VHF

LMR Conducted Power									
Channel Band	Frequency (MHz)	Modulation	Measured Power (dBm)	Rated ⁽¹⁾ Power (dBm)	Rated ⁽¹⁾ Power (W)	Delta (dBm)	Duty Cycle (%)	Crest Factor (n)	Test Channel (Y)
VHF	136.0125	CW	38.34	38.80	7.59	-0.46	100.0	1.00	
VHF	138.0125	CW	38.78	38.80	7.59	-0.02	100.0	1.00	Y
VHF	141.0125	CW	38.72	38.80	7.59	-0.08	100.0	1.00	Y
VHF	144.0125	CW	38.72	38.80	7.59	-0.08	100.0	1.00	Y
VHF	148.0125	CW	38.71	38.80	7.59	-0.09	100.0	1.00	
VHF	150.0125	CW	38.75	38.80	7.59	-0.05	100.0	1.00	
VHF	156.8000	CW	38.65	38.80	7.59	-0.15	100.0	1.00	
VHF	162.0125	CW	38.36	38.80	7.59	-0.44	100.0	1.00	
VHF	173.9875	CW	38.64	38.80	7.59	-0.16	100.0	1.00	

(1) Includes Tune-Up Tolerance

Table 7.2 Conducted Power Measurements TNF – UHF

LMR Conducted Power									
Channel Band	Frequency (MHz)	Modulation	Measured Power (dBm)	Rated⁽¹⁾ Power (dBm)	Rated⁽¹⁾ Power (W)	Delta (dBm)	Duty Cycle (%)	Crest Factor (n)	Test Channel (Y)
UHF	378.0100	CW	37.53	38.00	6.31	-0.47	100.0	1.00	
UHF	406.1000	CW	37.98	38.00	6.31	-0.02	100.0	1.00	Y
UHF	418.0125	CW	37.90	38.00	6.31	-0.10	100.0	1.00	
UHF	430.0125	CW	37.99	38.00	6.31	-0.01	100.0	1.00	Y
UHF	450.0125	CW	37.97	38.00	6.31	-0.03	100.0	1.00	Y
UHF	454.0125	CW	37.95	38.00	6.31	-0.05	100.0	1.00	
UHF	456.0125	CW	37.93	38.00	6.31	-0.07	100.0	1.00	
UHF	459.0250	CW	37.85	38.00	6.31	-0.15	100.0	1.00	
UHF	459.9750	CW	37.78	38.00	6.31	-0.22	100.0	1.00	
UHF	470.0125	CW	37.86	38.00	6.31	-0.14	100.0	1.00	
UHF	511.9875	CW	37.45	38.00	6.31	-0.55	100.0	1.00	
UHF	521.9875	CW	37.48	38.00	6.31	-0.52	100.0	1.00	

(1) Includes Tune-Up Tolerance

Table 7.3 Conducted Power Measurements TNF – 7/800 Band

LMR Conducted Power									
Channel Band	Frequency (MHz)	Modulation	Measured Power (dBm)	Rated⁽¹⁾ Power (dBm)	Rated⁽¹⁾ Power (W)	Delta (dBm)	Duty Cycle (%)	Crest Factor (n)	Test Channel (Y)
7/800	768.0125	CW	34.74	35.00	3.16	-0.26	100.0	1.00	Y
7/800	769.0125	CW	34.70	35.00	3.16	-0.30	100.0	1.00	Y
7/800	771.0125	CW	34.65	35.00	3.16	-0.35	100.0	1.00	Y
7/800	775.0125	CW	34.69	35.00	3.16	-0.31	100.0	1.00	Y
7/800	775.9875	CW	34.65	35.00	3.16	-0.35	100.0	1.00	
7/800	798.0125	CW	34.64	35.00	3.16	-0.36	100.0	1.00	
7/800	799.0125	CW	34.64	35.00	3.16	-0.36	100.0	1.00	
7/800	801.0125	CW	34.65	35.00	3.16	-0.35	100.0	1.00	
7/800	805.9875	CW	34.64	35.00	3.16	-0.36	100.0	1.00	
7/800	806.0125	CW	35.25	35.80	3.80	-0.55	100.0	1.00	Y
7/800	815.0000	CW	35.29	35.80	3.80	-0.51	100.0	1.00	
7/800	815.9875	CW	35.25	35.80	3.80	-0.55	100.0	1.00	
7/800	823.9875	CW	35.26	35.80	3.80	-0.54	100.0	1.00	
7/800	851.0125	CW	35.52	35.80	3.80	-0.28	100.0	1.00	Y
7/800	851.0250	CW	35.48	35.80	3.80	-0.32	100.0	1.00	
7/800	860.0000	CW	35.77	35.80	3.80	-0.03	100.0	1.00	
7/800	868.9875	CW	35.80	35.80	3.80	0.00	100.0	1.00	Y

(1) Includes Tune-Up Tolerance

Table 7.4 Conducted Power Measurements PCS – LTE Band 1

LTE Conducted Power Measurement															
LTE Band:		1		Channel Bandwidth:									20MHz		
Lower Band Edge		1920(MHz)		Upper Band Edge:										1980(MHz)	
Modulation	Resource Block			Low 18100 1930(MHz)			Mid 18300 1950(MHz)			High 18500 1970(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)		
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	Low	20.77	1		20.77	8	RB1-2	19.88	15		20.95		
	1	49	Mid	20.91	2	RB1-1	20.53	9		20.01	16	RB1-3	20.95		
	1	99	High	19.86	3		19.45	10		19.47	17		20.95		
	50	0	Low	17.98	4		17.47	11	RB50-3	18.01	18	RB50-2	18.15		
	50	24	Mid	18.14	5	RB50-1	17.35	12		18.00	19		18.15		
	50	49	High	17.74	6		17.30	13		17.00	20		18.15		
	100	0	Mid	17.88	7	RB100-1	17.00	14		16.73	21		18.15		
16QAM	1	0	Low	18.84	22		18.69	29	RB1-3	19.25	36		19.75		
	1	49	Mid	19.17	23	RB1-2	18.53	30		19.71	37	RB1-1	19.75		
	1	99	High	17.96	24		17.28	31		18.89	38		19.75		
	50	0	Low	17.12	25		16.11	32		15.99	39	RB50-3	17.25		
	50	24	Mid	17.23	26	RB50-1	16.90	33	RB50-2	15.71	40		17.25		
	50	49	High	16.47	27		16.57	34		15.52	41		17.25		
	100	0	Mid	17.43	28		17.29	35		17.56	42	RB100	17.6		
	= Required for highest conducted power														
	= Required if SAR > 0.8W/kg														
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB														
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK														

Note: Device does not support 64QAM

Table 7.5 Conducted Power Measurements PCS – LTE Band 25 / 2

LTE Conducted Power Measurement															
LTE Band:		25		Channel Bandwidth:									20MHz		
Lower Band Edge		1850(MHz)		Upper Band Edge:										1915(MHz)	
Modulation	Resource Block			Low 26140 1860(MHz)			Mid 26365 1882.5(MHz)			High 26590 1905(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)		
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	Low	20.52	1		20.56	8		20.68	15	RB1-3	21.0		
	1	49	Mid	20.81	2	RB1-2	20.78	9		19.30	16		21.0		
	1	99	High	19.21	3		20.91	10	RB1-1	20.20	17		21.0		
	50	0	Low	18.10	4		18.14	11		17.67	18		19.25		
	50	24	Mid	18.58	5	RB50-2	18.61	12		17.64	19		19.25		
	50	49	High	18.27	6		19.17	13	RB50-1	18.06	20	RB50-3	19.25		
	100	0	Mid	18.68	7	RB100-1	17.65	14		17.19	21		18.75		
16QAM	1	0	Low	18.26	22		18.30	29		18.61	36	RB1-3	20		
	1	49	Mid	19.77	23	RB1-1	18.70	30		17.56	37		20		
	1	99	High	17.48	24		19.66	31	RB1-2	17.17	38		20		
	50	0	Low	16.47	25		17.05	32		15.20	39		17.5		
	50	24	Mid	16.72	26		17.49	33	RB50-1	16.23	40		17.5		
	50	49	High	17.36	27	RB50-2	16.29	34		16.43	41	RB50-3	17.5		
	100	0	Mid	16.06	28		16.06	35	RB100	15.47	42		16.25		
	= Required for highest conducted power														
	= Required if SAR > 0.8W/kg														
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB														
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK														

Note: LTE Band 25 encompasses the entire LTE Band 2, testing of LTE Band 2 is not required.

Note: Device does not support 64QAM

Table 7.6 Conducted Power Measurements PCS – LTE Band 66 / 3 / 4

LTE Conducted Power Measurement															
LTE Band:		66		Channel Bandwidth:									20MHz		
Lower Band Edge		1710(MHz)		Upper Band Edge:										1780(MHz)	
Modulation	Resource Block			Low 132072 1720(MHz)			Mid 132322 1745(MHz)			High 132572 1770(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)		
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	Low	20.11	1		19.99	8		20.57	15	RB1-2	20.75		
	1	49	Mid	20.24	2	RB1-3	20.64	9		20.08	16		20.75		
	1	99	High	19.00	3		20.61	10	RB1-1	18.80	17		20.75		
	50	0	Low	17.74	4		17.81	11		17.84	18	RB50-3	18.25		
	50	24	Mid	17.37	5		17.73	12		17.42	19		18.25		
	50	49	High	17.92	6	RB50-2	18.22	13	RB50-1	17.60	20		18.25		
	100	0	Mid	17.14	7		17.25	14		17.98	21	RB100-1	18.00		
16QAM	1	0	Low	19.13	22		18.61	29		19.39	36	RB1-3	19.5		
	1	49	Mid	19.39	23	RB1-2	19.34	30		19.23	37		19.5		
	1	99	High	18.38	24		19.48	31	RB1-1	17.57	38		19.5		
	50	0	Low	16.06	25		16.37	32		16.63	39	RB50-3	17.0		
	50	24	Mid	16.84	26	RB50-2	16.97	33	RB50-1	16.41	40		17.0		
	50	49	High	16.40	27		16.72	34		15.70	41		17.0		
	100	0	Mid	16.99	28	RB100	16.67	35		16.72	42		17.0		

= Required for highest conducted power

= Required if SAR > 0.8W/kg

= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB

= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK

Note: LTE Band 66 encompasses the entire LTE Band 3 & 4, testing of LTE Band 3 & 4 is not required.

Note: Device does not support 64QAM

Table 7.7 Conducted Power Measurements PCS – LTE Band 26 / 5

LTE Conducted Power Measurement															
LTE Band:		26		Channel Bandwidth:									15MHz		
Lower Band Edge		814(MHz)		Upper Band Edge:										849(MHz)	
Modulation	Resource Block			Low 26765 821.5(MHz)			Mid 26865 831.5(MHz)			High 26965 841.5(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)		
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	Low	20.90	1		21.12	8		21.36	15	RB1-1	21.45		
	1	34	Mid	21.13	2	RB1-3	21.35	9	RB1-2	20.09	16		21.45		
	1	74	High	20.05	3		20.97	10		20.05	17		21.45		
	36	0	Low	18.39	4		18.60	11	RB50-3	18.77	18	RB50-2	18.9		
	36	17	Mid	18.21	5		17.96	12		18.52	19		18.9		
	36	34	High	18.82	6	RB50-1	18.03	13		17.88	20		18.9		
	75	0	Mid	18.11	7	RB100-1	17.87	14		17.78	21		18.25		
16QAM	1	0	Low	19.70	22		19.37	29		20.36	36	RB1-1	20.45		
	1	34	Mid	20.28	23	RB1-2	19.61	30	RB1-3	19.91	37		20.45		
	1	74	High	18.96	24		19.16	31		19.20	38		20.45		
	36	0	Low	17.93	25	RB50-2	17.37	32		17.16	39	RB50-3	18.0		
	36	17	Mid	17.68	26		17.83	33		16.71	40		18.0		
	36	34	High	17.09	27		17.96	34	RB50-1	16.05	41		18.0		
	75	0	Mid	17.39	28	RB100	16.93	35		16.61	42		17.4		

= Required for highest conducted power

= Required if SAR > 0.8W/kg

= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB

= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK

Note: LTE Band 26 encompasses the entire LTE Band 5, testing of LTE Band 5 is not required.

Note: Device does not support 64QAM

Table 7.8 Conducted Power Measurements PCS – LTE Band 7

LTE Conducted Power Measurement															
LTE Band:		7		Channel Bandwidth:									20MHz		
Lower Band Edge		2500(MHz)		Upper Band Edge:										2570(MHz)	
Modulation	Resource Block			Low 18700 1860(MHz)			Mid 18900 1880(MHz)			High 19100 1900(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)										Rated Power (dBm)	
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	21.55	21.55	1	RB1-2	21.48	8		21.42	15	RB1-3	21.97		
	1	49	21.13	21.13	2		24.68	9	RB1-1	21.33	16		21.97		
	1	99	20.92	20.92	3		20.87	10		20.58	17		21.97		
	50	0	20.02	20.02	4		20.12	11		20.55	18		20.95		
	50	24	20.04	20.04	5	RB50-3	20.29	12	RB50-2	20.90	19	RB50-1	20.95		
	50	49	19.57	19.57	6		19.82	13		20.58	20		20.95		
	100	0	20.00	20.00	7		19.85	14		20.11	21	RB100-1	20.25		
16QAM	1	0	20.96	20.96	22	RB1-2	21.30	29	RB1-1	20.13	36		21.35		
	1	49	20.92	20.92	23		21.12	30		20.17	37	RB1-3	21.35		
	1	99	20.63	20.63	24		20.34	31		19.98	38		21.35		
	50	0	19.14	19.14	25	RB50-2	19.37	32	RB50-1	18.64	39	RB50-3	18.9		
	50	24	18.99	18.99	26		19.12	33		18.47	40		18.9		
	50	49	18.72	18.72	27		18.80	34		18.23	41		18.9		
	100	0	18.59	18.59	28		19.17	35		19.40	42	RB100	19.45		

= Required for highest conducted power

= Required if SAR > 0.8W/kg

= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB

= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK

Note: Device does not support 64QAM

Table 7.9 Conducted Power Measurements PCS – LTE Band 8 / 106

LTE Conducted Power Measurement														
LTE Band:		8		Channel Bandwidth:									10MHz	
Lower Band Edge		880(MHz)		Upper Band Edge:									915(MHz)	
Modulation	Resource Block			Low 26140 885(MHz)			Mid 26365 897.5(MHz)			High 26590 910(MHz)			Chan Pos EARFCN Chan Freq	
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)	
					Macro	ID		Macro	ID		Macro	ID		
QPSK	1	0	Low	22.71	1.00	RB1-1	22.63	8	RB1-2	21.45	15	RB1-3	23	
	1	24	Mid	22.66	2		22.55	9		21.39	16		23	
	1	49	High	22.49	3		21.83	10		20.77	17		23/21.5	
	25	0	Low	20.7	4.0	RB25-1	20.15	11		19.08	18		21	
	25	12	Mid	20.11	5		20.27	12	RB25-2	19.06	19	RB25-3	21	
	25	24	High	20.23	6		19.88	13		19.03	20		21/19.5	
	50	24	Mid	19.82	7		19.86	14	RB50	19.07	21		20	
16QAM	1	0	Low	21.12	22	RB1-2	20.59	29		19.52	36		21.25	
	1	24	Mid	19.26	23		21.20	30	RB1-1	19.89	37	RB1-3	21.25	
	1	49	High	20.92	24		18.99	31		19.52	38		21.25	
	25	0	Low	17.62	25		18.34	32		16.79	39		19	
	25	12	Mid	17.09	26		17.63	33		16.96	40		19	
	25	24	High	18.41	27	RB25-2	18.69	34	RB25-1	17.70	41	RB25-3	19	
	50	24	Mid	17.05	28		17.48	35	RB50	16.59	42		17.5	

 = Required for highest conducted power
 = Required if SAR > 0.8W/kg
 = Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB
 = Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK

Note: LTE Band 8 encompasses the entire LTE Band 106, testing of LTE Band 106 is not required.

Note: Device does not support 64QAM

Table 7.10 Conducted Power Measurements PCS – LTE Band 12

LTE Conducted Power Measurement															
LTE Band:		12		Channel Bandwidth:									10MHz		
Lower Band Edge		699(MHz)		Upper Band Edge:										716(MHz)	
Modulation	Resource Block			Low 23060 704(MHz)			Mid 23095 707.5(MHz)			High 23130 711(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)		
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	Low	19.99	1	RB1-3	20.97	8		21.08	15		20.25		
	1	24	Mid	19.10	2		21.07	9		21.76	16	RB1-1	21.85		
	1	49	High	19.44	3		21.35	10	RB1-2	20.92	17		21.85		
	25	0	Low	18.87	4	RB50-2	17.71	11		19.04	18		19.25		
	25	12	Mid	18.55	5		17.91	12		19.17	19	RB50-1	19.25		
	25	24	High	18.50	6		18.13	13	RB50-3	18.94	20		19		
	50	0	Mid	18.75	7	RB100-1	17.82	14		18.62	21		19		
16QAM	1	0	Low	18.59	22	RB1-3	18.24	29		18.13	36		19		
	1	24	Mid	17.19	23		20.02	30	RB1-1	19.15	37	RB1-2	20.25/19.5		
	1	49	High	17.88	24		19.86	31		18.41	38		20		
	25	0	Low	16.42	25		16.65	32		16.56	39		17		
	25	12	Mid	17.07	26	RB50-2	16.84	33		17.83	40		18		
	25	24	High	17.02	27		17.04	34	RB50-3	17.99	41	RB50-1	18		
	50	0	Mid	17.81	28	RB100-1	15.86	35		17.13	42		18		
	= Required for highest conducted power														
	= Required if SAR > 0.8W/kg														
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB														
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK														

Note: Device does not support 64QAM

Table 7.11 Conducted Power Measurements PCS – LTE Band 13

LTE Conducted Power Measurement														
LTE Band:		13		Channel Bandwidth:									10MHz	
Lower Band Edge		777(MHz)		Upper Band Edge:									787(MHz)	
Modulation	Resource Block			Low 23230 782(MHz)			Mid 23230 782(MHz)			High 23230 782(MHz)			Chan Pos EARFCN Chan Freq	
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)	
					Macro	ID		Macro	ID		Macro	ID		
QPSK	1	0	Low				19.50	1	RB1-3				19.75	
	1	24	Mid				20.46	2	RB1-1				20.5	
	1	49	High				19.92	3	RB1-2				20.5	
	25	0	Low				17.69	4	RB50-3				18.4	
	25	12	Mid				18.34	5	RB50-1				18.4	
	25	24	High				18.13	6	RB50-2				18.4	
	50	0	Mid				17.88	7	RB100				18.0	
16QAM	1	0	Low				18.98	22					19.0	
	1	24	Mid				20.14	23	RB1-1				20.15	
	1	49	High				19.44	24					20.15	
	25	0	Low				17.79	25					18.1	
	25	12	Mid				18.09	26	RB50-1				18.1	
	25	24	High				17.84	27					18.1	
	50	0	Mid				17.62	28	RB100				18.1	
	= Required for highest conducted power													
	= Required if SAR > 0.8W/kg													
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB													
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK													

Note: Device does not support 64QAM

Table 7.12 Conducted Power Measurements PCS – LTE Band 14

LTE Conducted Power Measurement														
LTE Band:		14		Channel Bandwidth:									10MHz	
Lower Band Edge		788(MHz)		Upper Band Edge:									798(MHz)	
Modulation	Resource Block			Low 23330 793(MHz)			Mid 23330 793(MHz)			High 23330 793(MHz)			Chan Pos EARFCN Chan Freq	
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)	
					Macro	ID		Macro	ID		Macro	ID		
QPSK	1	0	Low				20.38	1	RB1-1				20.4	
	1	24	Mid				19.67	2	RB1-3				20.4	
	1	49	High				19.85	3	RB1-2				20.4	
	25	0	Low				18.22	4	RB50-1				18.25	
	25	12	Mid				18.08	5	RB50-2				18.25	
	25	24	High				17.91	6	RB50-3				18.25	
	50	0	Mid				17.81	7	RB100				18.0	
16QAM	1	0	Low				20.14	22	RB1-1				20.2	
	1	24	Mid				19.41	23					20.2	
	1	49	High				19.60	24					20.2	
	25	0	Low				17.72	25	RB50-1				17.8	
	25	12	Mid				17.47	26					17.8	
	25	24	High				17.35	27					17.8	
	50	0	Mid				17.32	28	RB100				17.8	
	= Required for highest conducted power													
	= Required if SAR > 0.8W/kg													
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB													
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK													

Note: Device does not support 64QAM

Table 7.13 Conducted Power Measurements PCS – LTE Band 28

LTE Conducted Power Measurement															
LTE Band:		28		Channel Bandwidth:									20MHz		
Lower Band Edge		703(MHz)		Upper Band Edge:										748(MHz)	
Modulation	Resource Block			Low 27310 713(MHz)			Mid 27435 725.5(MHz)			High 27560 738(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)		
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	Low	20.94	1		21.07	8		21.10	15		21.25		
	1	49	Mid	21.56	2	RB1-3	21.57	9	RB1-2	22.23	16	RB1-1	22.25/21.65		
	1	99	High	21.13	3		19.92	10		20.89	17		21.25		
	50	0	Low	18.14	4	RB50-1	17.86	11		16.82	18		18.25		
	50	24	Mid	18.06	5		17.99	12	RB50-2	17.60	19		18.25		
	50	49	High	17.46	6		16.96	13		17.67	20	RB50-3	18.25		
	100	0	Mid	16.80	7		17.69	14		17.98	21	RB100-1	18		
16QAM	1	0	Low	18.43	22		18.75	29		19.41	36		19.5		
	1	49	Mid	19.19	23		18.77	30		18.90	37		19.5		
	1	99	High	17.96	24		18.13	31		18.59	38		19		
	50	0	Low	17.23	25		15.54	32		14.80	39		17.25		
	50	24	Mid	16.07	26		16.55	33		16.19	40		17		
	50	49	High	16.59	27		15.60	34		16.79	41		17		
	100	0	Mid	14.62	28		16.45	35		16.18	42		17		
	= Required for highest conducted power														
	= Required if SAR > 0.8W/kg														
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB														
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK														

Note: Device does not support 64QAM

Table 7.14 Conducted Power Measurements PCS – LTE Band 40

LTE Conducted Power Measurement															
LTE Band:		40		Channel Bandwidth:									20MHz		
Lower Band Edge		2300(MHz)		Upper Band Edge:										2400(MHz)	
Modulation	Resource Block			Low 38750 2310(MHz)			Mid 39150 2350(MHz)			High 39550 2390(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)		
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	Low	21.25	1		21.41	8		21.37	15	RB1-3	21.75		
	1	49	Mid	21.39	2	RB1-2	21.60	9	RB1-1	21.28	16		21.75		
	1	99	High	21.26	3		21.59	10		21.25	17		21.75		
	50	0	Low	18.60	4	RB50-3	18.70	11		18.67	18	RB50-2	18.93		
	50	24	Mid	18.33	5		18.76	12		18.32	19		18.93		
	50	49	High	18.09	6		18.88	13	RB50-1	17.57	20		18.93		
	100	0	Mid	17.01	7		17.29	14	RB100-1	17.07	21		17.44		
16QAM	1	0	Low	18.55	22		18.84	29		18.65	36	RB1-2	19.83		
	1	49	Mid	18.62	23	RB1-3	19.68	30	RB1-1	18.19	37		19.83		
	1	99	High	18.54	24		19.20	31		17.68	38		19.83		
	50	0	Low	18.14	25		17.53	32	RB50-3	17.90	39	RB50-2	18.43		
	50	24	Mid	18.28	26	RB50-1	17.45	33		17.66	40		18.43		
	50	49	High	18.04	27		17.27	34		16.70	41		18.43		
	100	0	Mid	17.42	28	RB100-1	16.62	35		15.29	42		17.56		
	= Required for highest conducted power														
	= Required if SAR > 0.8W/kg														
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB														
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK														
Note: Device does not support 64QAM															

Table 7.15 Conducted Power Measurements PCS – LTE Band 41

LTE Conducted Power Measurement														
LTE Band:		41		Channel Bandwidth:									20MHz	
Lower Band Edge		2496(MHz)		Upper Band Edge:									2690(MHz)	
Modulation	Resource Block			Low 39750 2506(MHz)			Mid 40620 2593(MHz)			High 41490 2680(MHz)			Chan Pos EARFCN Chan Freq	
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)	
					Macro	ID		Macro	ID		Macro	ID		
QPSK	1	0	Low	20.20	1		18.51	8		20.61	15	RB1-1	20.7	
	1	49	Mid	20.43	2	RB1-2	19.35	9	RB1-3	20.57	16		20.7	
	1	99	High	19.39	3		18.79	10		20.23	17		20.7	
	50	0	Low	17.06	4	RB50-2	15.78	11		17.07	18		17.25	
	50	24	Mid	17.00	5		15.90	12		14.63	19		17.25	
	50	49	High	16.49	6		15.99	13	RB50-3	17.81	20	RB50-1	17.85	
	100	0	Mid	16.30	7	RB100	15.41	14		15.43	21		16.35	
16QAM	1	0	Low	18.32	22	RB1-2	19.23	29		15.75	36		20.25	
	1	49	Mid	17.76	23		20.20	30	RB1-1	17.84	37	RB1-3	20.25	
	1	99	High	17.86	24		19.51	31		17.21	38		20.25	
	50	0	Low	16.06	25		14.89	32		16.81	39		17.65	
	50	24	Mid	16.09	26	RB50-1	15.12	33	RB50-3	17.48	40		17.65	
	50	49	High	15.67	27		15.04	34		17.58	41	RB50-2	17.65	
	100	0	Mid	16.27	28	RB100	14.08	35		16.62	42		16.7	
	= Required for highest conducted power													
	= Required if SAR > 0.8W/kg													
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB													
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK													
Note: Device does not support 64QAM														

Table 7.16 Conducted Power Measurements PCS – LTE Band 48

LTE Conducted Power Measurement														
LTE Band:		48		Channel Bandwidth:									20MHz	
Lower Band Edge		3600(MHz)		Upper Band Edge:									3700(MHz)	
Modulation	Resource Block			Low 55840 3610(MHz)			Mid 56240 3650(MHz)			High 56640 3690(MHz)			Chan Pos EARFCN Chan Freq	
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)	
					Macro	ID		Macro	ID		Macro	ID		
QPSK	1	0	Low	19.96	1		20.88	8		20.71	15		21.7	
	1	49	Mid	20.66	2	RB1-3	21.56	9	RB1-2	21.65	16	RB1-1	21.7	
	1	99	High	20.54	3		21.28	10		21.62	17		21.7	
	50	0	Low	18.49	4		18.85	11		19.78	18		20.45	
	50	24	Mid	18.85	5		18.72	12		20.10	19		20.45	
	50	49	High	18.85	6	RB50-3	18.86	13	RB50-2	20.25	20	RB50-1	20.45	
	100	0	Mid	18.31	7		18.26	14		19.32	21	RB100	19.5	
16QAM	1	0	Low	19.69	22		18.07	29		19.64	36		20.3	
	1	49	Mid	20.19	23	RB1-2	18.72	30	RB1-3	20.28	37	RB1-1	20.3	
	1	99	High	20.13	24		18.22	31		20.04	38		20.3	
	50	0	Low	18.37	25		18.54	32		17.45	39		18.7	
	50	24	Mid	18.65	26	RB50-1	18.56	33	RB50-2	17.58	40		18.7	
	50	49	High	18.65	27		18.17	34		17.77	41	RB50-3	18.7	
	100	0	Mid	18.26	28		18.79	35		18.31	42		18.7	
	= Required for highest conducted power													
	= Required if SAR > 0.8W/kg													
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB													
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK													

Note: Device does not support 64QAM

Table 7.17 Conducted Power Measurements PCS – LTE Band 71

LTE Conducted Power Measurement															
LTE Band:		71		Channel Bandwidth:									20MHz		
Lower Band Edge		663(MHz)		Upper Band Edge:										698(MHz)	
Modulation	Resource Block			Low 133222 673(MHz)			Mid 133297 680.5(MHz)			High 133372 688(MHz)			Chan Pos EARFCN Chan Freq		
	Size	Offset	POS	Conducted Power (dBm)									Rated Power (dBm)		
					Macro	ID		Macro	ID		Macro	ID			
QPSK	1	0	Low	20.65	1		20.23	8	RB1-2	19.86	15		21.3		
	1	49	Mid	21.27	2	RB1-1	19.86	9		20.03	16	RB1-3	21.3		
	1	99	High	19.42	3		19.75	10		19.36	17		21.3		
	50	0	Low	17.67	4		17.95	11	RB50-2	17.56	18		18.1		
	50	24	Mid	18.05	5	RB50-1	17.44	12		17.68	19		18.1		
	50	49	High	17.63	6		16.89	13		17.73	20	RB50-3	18.1		
	100	0	Mid	17.87	7	RB100-1	17.15	14		17.76	21		18.0		
16QAM	1	0	Low	20.42	22		20.50	29	RB1-3	20.57	36		20.95		
	1	49	Mid	20.93	23	RB1-1	19.85	30		20.79	37	RB1-2	20.95		
	1	99	High	19.32	24		19.86	31		20.46	38		20.95		
	50	0	Low	18.19	25		17.97	32	RB50-3	17.48	39		18.45		
	50	24	Mid	18.40	26	RB50-1	17.30	33		17.91	40		18.45		
	50	49	High	18.04	27		16.94	34		18.33	41	RB50-2	18.45		
	100	0	Mid	18.72	28	RB100	18.31	35		18.29	42		18.75		
	= Required for highest conducted power														
	= Required if SAR > 0.8W/kg														
	= Required if SAR > 0.8W/kg AND IF THE conducted power > conducted power of that of the 1RB and 50% RB														
	= Required if SAR > 1.45W/kg or conducted power > 1/2dB of QPSK														
Note: Device does not support 64QAM															

Table 7.18 Conducted Power Measurements – w/c spot checks 14038-1010-01 & 14038-1011-01

SAR Test Channels											
Channel Band	Channel Number	Frequency (MHz)	model variant	Modulation	Measured Power (dBm)	Rated ⁽¹⁾ Power (dBm)	Rated ⁽¹⁾ Power (W)	Delta (dBm)	Duty Cycle (%)	Crest Factor (n)	Test Channel (Y)
UHF	430	430.0125	14038-1010-01	CW	36.13	38.00	6.31	-1.87	100.0	1.00	Y
UHF	430	430.0125	14038-1011-01	CW	36.07	38.00	6.31	-1.93	100.0	1.00	Y
LMR	869	868.9875	14038-1010-01	CW	34.86	35.80	3.80	-0.94	100.0	1.00	Y
LMR	869	868.9875	14038-1011-01	CW	35.50	35.80	3.80	-0.30	100.0	1.00	Y
PCS	B12 RB1-1	710.9100	14038-1010-01	CW	21.76	21.85	0.15	-0.09	100.0	1.00	Y
PCS	B12 RB1-1	710.9100	14038-1011-01	CW	21.61	21.85	0.15	-0.24	100.0	1.00	Y
PCS	B8/106 RB1-2	897.5000	14038-1010-01	CW	22.63	23.00	0.20	-0.37	100.0	1.00	Y
PCS	B8/106 RB1-2	897.5000	14038-1011-01	CW	20.57	21.00	0.13	-0.43	100.0	1.00	Y

(1) includes tune-up tolerance

NOTE: The measured conducted power in the smaller bandwidths for each band and RB configuration was less than 1/2dB greater than the *equivalent* RB configuration of the respective largest bandwidth.

*The rated power and tolerance are stated for typical transmission modes and data rates. Some modes and data rates may produce lower than rated conducted power levels. Continuous Wave (CW) mode is a test mode not typical with normal transmission modes and may produce higher than rated conducted power levels. Power measurements taken across the various channels, modes and data rates did not produce levels in excess of the Rated Power plus Tolerance. SAR was evaluated using CW for analog only, all evaluations were completed at the maximum output power level setting and produced the most conservative SAR. The reported SAR was not scaled down.

8.0 NUMBER OF TEST CHANNELS (N_c)

The number of test channels for testing the LMR channel bands is based on the worst-case channels and configurations from the original filing as well the highest conducted output power channel obtained during this evaluation.

The *required test channels* used for the LTE evaluation is based on FCC KDB 941225 D05v02r05 as follows:

5.2.1. QPSK with 1 RB allocation

Start with the largest channel bandwidth then measure SAR for QPSK with 1 RB allocation, using the RB offset and *required test channel* combination with the highest maximum output power among RB offsets at the upper edge, middle, and lower edge of each *required test channel*. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and *required test channels* is not required for 1 RB allocation; otherwise, SAR is required for the remaining *required test channels* and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a *required test channel* is > 1.45 W/kg, SAR is required for all three RB offset configurations for that *required test channel*.

5.2.2. QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

5.2.3. QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations, and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining *required test channels* must also be tested.

5.2.4. Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in 5.2.1, 5.2.2, and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

5.3. Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in 5.2 to determine the channels and RB configurations that need SAR testing, then only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration, or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation, etc., is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth. For example, 50 RB in 10 MHz channel bandwidth does not apply to 5 MHz channel bandwidth; therefore, this cannot be tested in the smaller channel bandwidth. However, 50% RB allocation in 10 MHz channel bandwidth is equivalent to 100% RB allocation in 5 MHz channel bandwidth; therefore, these are the equivalent configurations to be compared to determine the specific channel and configuration in the smaller channel bandwidth that need SAR testing.

Note: LTE Band 66 completely encompassed Band 4, Band 8 completely encompasses Band 106, Band 12 completely encompasses Band 17. Only the channels and RB configurations having the highest conducted output power will be evaluated for band pair.

9.0 ACCESSORIES EVALUATED

Table 9.1 Manufacturer's Accessory List

Manufacturer's Accessory List				
Test Report ID Number	Manufacturer's Part Number	Description	SAR Evaluated	SAR Tested
Antenna				
T4	14035-4000-01	Full Spectrum Antenna (136-870 MHz)	Y	Y
T5	14035-4420-01	Wideband Whip Antenna (378-520MHz, 762-870 MHz)	Y	Y
T6	14035-4440-01	1/2 Wave Whip Antenna (762-870 MHz)	Y	Y
T7	14035-4440-02	1/4 Wave Whip Antenna (762-870 MHz)	Y	Y

Manufacturer's Accessory List				
Test Report ID Number	Manufacturer's Part Number	Description	SAR Evaluated	SAR Tested
Battery				
P5	14036-4020-01	Li-Ion Battery 7.2VDC, 3100mAh, 22Wh, LTE	Y	Y
P6	14036-4020-02	Li-Ion Battery 7.2VDC, 3100mAh, 22Wh, LTE, UL, C1D2	Y	N
P7	14035-5050-01	Li-Ion Battery 7.2VDC, 4700mAh, 24Wh Standard	Y	Y
P8	14035-5050-02	Li-Ion Battery 7.2VDC, 4700mAh, 24Wh, C1D2	Y	N
P14	Z90-0047-013	BATTERY, LI-ION, 3100MAh, Richom	Y	Y
P15	Z90-0047-014	BATTERY, RECHAREABLE LI-ION, 3100MAH, RCP	Y	N

Note: P14 and P15 are of similar capacity, form-factor and construction.

Note: P6 and P8 are C1D2 (UL) ratings of the same battery.

Manufacturer's Accessory List				
Test Report ID Number	Manufacturer's Part Number	Description	SAR Evaluated	SAR Tested
Body-Worn Accessory				
B1	12082-1290-01	Metal Belt Clip, 0mm	Y	Y
B2	12082-3230-01	D-Swivel (Used w/ 14002-0218-01 and KRY 1011609/1)	Y	Y
B3	14002-0218-01	Premium Belt Loop	Y	Y
B4	14035-4200-01	Holster, Leather, Radio, Premium	Y	N
B5	14035-4200-02	Holster, Leather w/Rings for Shoulder Strap, Radio, Premium	Y	N
B33	14035-4200-05	Holster, Leather, No D Post, w/ Rings, Radio, Premium	Y	N
B8	14035-4201-01	Case, Leather, Premium, Shoulder Strap	Y	N
B9	14035-4201-02	Case, Leather, Premium, Shoulder Strap	Y	N
B14	CC103333V1	Shoulder Strap	Y	Y
B16	12082-1398-01	Side Connector Cover	Y	N
B19	14036-4001-01	Case, Nylon, Black, Molle Strap	Y	Y
B20	14036-4001-02	Case, Nylon, Black, Belt Loop, D-Swivel	Y	N
B21	14036-4002-01	Case, Leather, W/ Belt Loop, BLK HDW	Y	Y
B22	14036-4002-02	Case, Leather, Belt Loop, D-Swivel	Y	Y
B23	14036-4001-03	Case, Nylon, W/ Belt Loop, D-Swivel, BLK HDW	Y	N
B24	14036-4002-03	Case, Leather, Belt Loop, D-Swivel, BLK HDW	Y	N
B25	14036-4003-01	Case, Leather, Belt Loop, D-Swivel	Y	N
B26	14036-4003-02	Case, Leather, 3" Belt Loop	Y	N
B27	14036-4003-03	Case, Leather, Belt Loop, D-Swivel	Y	N
B28	14036-4003-04	Case, Leather, 3" Belt Loop	Y	N
B33	14036-4001-04	Case, Nylon, Tan, Molle Strap (Same as 14036-4001-01	Y	N
B36	14035-4204-01	HOLSTER, XL LEGACY,KYDEX, BELT CLIP	Y	N
B37	14035-4204-02	HOLSTER, XL LEGACY,KYDEX, BELT CLIP	Y	Y
B38	14035-4204-03	HOLSTER, XL LEGACY,KYDEX, BELT CLIP, Coyote Brown	Y	N
B39	14035-4204-04	HOLSTER, XL LEGACY,KYDEX, BELT CLIP, Coyote Brown	Y	N
B40	14035-4204-03	HOLSTER, XL LEGACY,KYDEX, BELT CLIP, AT&T Blue	Y	N
B41	14035-4204-04	HOLSTER, XL LEGACY,KYDEX, BELT CLIP, AT&T Blue	Y	N
B42	14100-1290-01	Belt Clip - Modification to 12082-1290-01	Y	N
B42	14100-1290-01	Belt Clip - Modification to 12082-1290-01	Y	N

The items highlighted above represents a cross-section of various Body-worn Accessories based on separation distance, metal content and intended use.

Manufacturer's Accessory List						
Test Report ID Number	Manufacturer's Part Number	Description	UDC Group ⁽²⁾	Type II Group ⁽³⁾	SAR ⁽⁴⁾ Evaluated	SAR ⁽⁵⁾ Tested
Audio Accessory Part 1 of 2						
A1	12082-0600-01	Standard Speaker Microphone	7A	PB	Y	Y
A2	12082-0600-02	Storm Speaker Microphone	7A	PB	Y	N
A3	12150-1000-01	Premium Speaker MIC, Fire, NC	9	PB	Y	N
A4	12082-0650-01	Microphone, Palm, 2-Wire Black	7A	IL	Y	N
A5	12082-0650-02	Microphone, Palm, 2-Wire Beige	7A	IL	Y	N
A6	12082-0650-03	Microphone, Mini Lapel, 3-Wire Black	7A	IL	Y	N
A10	12082-0650-07	Headset, In-Ear, Boom MIC, In-Line PTT	7A	IL	Y	N
A12	12082-0650-09	Headset, LTWT, BTH, Dual Ear, In_Line PTT	7A	IL	Y	N
A13	12082-0650-10	Headset, LTWT, BTH, Dual Ear, Pig Tail PTT	7A	PT	Y	N
A14	12082-0650-11	Headset, LTWT, BTH, Dual In-Ear, In_Line PTT	7A	IL	Y	N
A15	12082-0650-12	Headset, LTWT, BTH, Dual In-Ear, Pig Tail PTT	7A	PT	Y	N
A16	12082-0650-13	Headset, Heavy Duty, BTH, w/PTT, XG-100P	7A	IL	Y	N
A17	12082-0650-14	Headset, Heavy Duty, OTH, w/PTT, XG-100P	7A	IL	Y	N
A18	12082-0650-15	Headset, BTH, Boom MIC, Earpiece, w/PTT	7A	IL	Y	N
A19	12082-0650-16	Headset, Tactical, Boom MIC, Earpiece, w/PTT	7A	PT	Y	N
A20	12082-0650-17	Skull MIC, w/Body PTT, Earcup, XG-100P	9	BB	Y	N
A21	12082-0650-18	Throat MIC, w/Acoustic Tube, Body PTT	9	BB	Y	N
A22	12082-0650-19	Throat MIC, w/Acoustic Tube, Body & Ring PTT	9	RB	Y	N
A23	12082-0681-01	Speaker MIC, Wireless Bluetooth	BT	PB	Y	N
A24	12082-0684-01	BlueTooth, Covert, Earpiece, MIC, PTT	BT	n/a	Y	N
A25	14002-0197-01	Hirose to Unity Adapter	7B	n/a	Y	N
A26	LS103239V1	Earphone, Lapel MIC, 2.5mm	n/a	n/a	Y	N
A27	LS103239V2	Earphone, Lapel MIC, 2.5mm, Right Angle	n/a	n/a	Y	N
A29	12082-0600-04	Storm Speaker Microphone 25.6"	7A	PB	Y	N
A31	12150-1000-05	Premium Speaker MIC, Fire, NC, Hi Vis Yellow	9	PB	Y	N
A32	14035-4700-01	SPEAKER MIC, REVO NC2, C1D2 LMR	7A	PB	Y	N
A33	14035-4700-02	See A45	7A	PB	Y	N
A34	14035-4750-01	SPEAKER MIC, 500F, C1D1 LMR	9	PB	Y	N
A35	12082-0800-02	SPEAKER MIC, WIRELESS, BLUETOOTH, ADVANCED		BT	Y	N
A36	12082-0800-03	SPEAKER MIC, WIRELESS, BLUETOOTH, ADV, ANZ		BT	Y	N
A37	14002-0197-01	Adapter, 6-Pin HIROSE, Ext Cable		Adpt	Y	N

Manufacturer's Accessory List						
Test Report ID Number	Manufacturer's Part Number	Description	UDC Group ⁽²⁾	Type II Group ⁽³⁾	SAR ⁽⁴⁾ Evaluated	SAR ⁽⁵⁾ Tested
Audio Accessory Part 2 of 2						
A38	14100-4700-22	ESM, GREEN FRSM, XL STRAIGHT CABLE	10	PB	Y	N
A38		14100-4700-01 FRSM Body	10	PB	Y	N
A38		-4700-15 Cable	10	PB	Y	N
A39	14100-4700-25	ESM, BLACK FRSM, XL STRAIGHT CABLE	10	PB	Y	N
A39		14100-4700-02 FRSM Body	10	PB	Y	N
A39		-4700-15 Cable	10	PB	Y	N
A40	14100-4700-28	ESM, YELLOW FRSM, XL STRAIGHT CABLE	10	PB	Y	N
A40		14100-4700-03 FRSM Body	10	PB	Y	N
A40		-4700-15 Cable	10	PB	Y	N
A41	14100-4700-31	ESM, GREEN FRSM, XG LEGACY CABLE	10	PB	Y	N
A41		14100-4700-01 FRSM Body	10	PB	Y	N
A41		-4700-13 Cable	10	PB	Y	N
A42	14100-4700-32	ESM, BLACK FRSM, XG LEGACY CABLE	10	PB	Y	N
A42		14100-4700-02 FRSM Body	10	PB	Y	N
A42		-4700-13 Cable	10	PB	Y	N
A43	14100-4700-33	ESM, YELLOW FRSM, XG LEGACY CABLE	10	PB	Y	N
A43		14100-4700-03 FRSM Body	10	PB	Y	N
A43		-4700-13 Cable	10	PB	Y	N
A45	14035-4700-02	SPEAKER MIC, REVO NC2, C1D2 w/ 3.5mm Earphone Jack	7A	PB	Y	N
A47	A06-0052-001	SPEAKER MIC, OTTO V2-GR2HD5212	7A	PB	Y	N
A48	A06-0052-002	Earphone, Lapel, Mic, 3.5mm Plug, OTTO V1-10305	7A	PB	Y	N
A48	A06-0052-002	Earphone, Lapel, Mic, 3.5mm Plug, OTTO V1-10305	7A	PB	Y	N
A48	A06-0052-002	Earphone, Lapel, Mic, 3.5mm Plug, OTTO V1-10305	7A	PB	Y	N
A61	A06-0056-001	Power Products Endura RSM Speaker/MIC	10	PB	Y	N

(1) All audio accessories have same connector and attach to the radio in the same fashion.

(2) UDC Group: 9 = 9 Pin, 7A = 7 Pin, 7B = 7 Pin Modified

(3) Type II Group: PB = Palm Button, IL = In-Line Pushbutton, PT = Pigtail Pushbutton, RB = Ring Pushbutton, BB = Body Button, BT = BlueTooth

(4) Accessories are categorized into groups of similar design and construction. Samples of individual groups are SAR Tested and the SAR results apply to ALL members of the Accessory Group. A "Y" in this column indicates the accessory is deemed acceptable.

(5) Accessories and/or Accessory Group members SAR Tested.

10.0 SAR MEASUREMENT SUMMARY

Table 10.1: Measured Results – TNF BODY- VHF

Measured 1g SAR Results - BODY Configuration																
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)
			Pos	Mode	DUT	Mod		DUT (mm)	Antenna (mm)							
Area Scan																
4/11/2025	B90	138.0125	BODY	CW	0179-E	VHF	P14 T4 B1 A1	15	35	1.080	0.210	-0.020	1.000	1.000	50.000	0.542
4/11/2025	B91	138.0125	BODY	CW	0179-E	VHF	P5 T4 B1 A1	15	35	1.280	3.030	-0.020	1.000	1.000	50.000	0.643
4/11/2025	B92	138.0125	BODY	CW	0179-E	VHF	P7 T4 B1 A1	15	35	2.690	-0.420	-0.020	1.000	1.000	50.000	1.488
4/11/2025	B93	138.0125	BODY	CW	0179-E	VHF	P5 T4 B14 A1	5	25	0.260	1.100	-0.020	1.000	1.000	50.000	0.131
4/11/2025	B94	138.0125	BODY	CW	0179-E	VHF	P5 T4 B14/B19 A1	7	27	0.530	0.170	-0.020	1.000	1.000	50.000	0.266
4/11/2025	B95	138.0125	BODY	CW	0179-E	VHF	P5 T4 B22/B3 A1	40	70	0.196	1.830	-0.020	1.000	1.000	50.000	0.098
4/11/2025	B96	138.0125	BODY	CW	0179-E	VHF	P7 T4 B2/B3 A1	30	60	0.061	0.470	-0.020	1.000	1.000	50.000	0.031
4/11/2025	B97	138.0125	BODY	CW	0179-E	VHF	P5 T4 B21 A1	10	30	0.158	0.090	-0.020	1.000	1.000	50.000	0.079
4/11/2025	B98	138.0125	BODY	CW	0179-E	VHF	P7 T4 B37 A1	12	32	0.107	1.170	-0.020	1.000	1.000	50.000	0.054
4/11/2025	B99	141.0125	BODY	CW	0179-E	VHF	P7 T4 B1 A1	15	35	0.825	-0.244	-0.080	1.000	1.000	50.000	0.444
4/11/2025	B100	144.0125	BODY	CW	0179-E	VHF	P7 T4 B1 A1	15	35	0.656	-0.420	-0.080	1.000	1.000	50.000	0.368
6/7/2025	B320	138.0125	BODY	CW	0179-E NL	VHF	P7 T4 B1 A1	15	35	4.580	2.560	-0.020	1.000	1.000	50.000	2.301
Zoom Scan																
6/7/2025	B320Z	138.0125	BODY	CW	0179-E NL	VHF	P7 T4 B1 A1	15	35	4.400	0.080	-0.020	1.000	1.000	50.000	2.210
Applicable SAR Limit							Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6				Occupational / User Aware					8.0 W/kg				

Table 10.2: Measured Results – TNF FACE- VHF

Measured 1g SAR Results - FACE Configuration																
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	<u>reported SAR (W/kg)</u>
			Pos	Mode	DUT	Mod		DUT (mm)	Antenna (mm)							
Area Scan																
4/11/2025	F90	138.0125	FACE	CW	0179-E	VHF	P7 T4 --	25	65	0.132	0.160	-0.020	1.000	1.000	50.000	0.066
6/7/2025	F320	138.0125	FACE	CW	0179-E NL	VHF	P7 T4 --	25	65	1.550	-0.610	-0.020	1.000	1.000	50.000	0.896
Zoom Scan																
6/7/2025	F320Z	138.0125	FACE	CW	0179-E NL	VHF	P7 T4 --	25	65	1.350	-0.230	-0.020	1.000	1.000	50.000	0.715
Applicable SAR Limit							Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6				Occupational / User Aware					8.0 W/kg				

Table 10.3: Measured Results – TNF BODY- UHF

Measured 1g SAR Results - BODY Configuration																
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)
			Pos	Mode	DUT	Mod		DUT (mm)	Antenna (mm)							
Area Scan																
3/17/2025	B30	430.0125	BODY	CW	0179-E	UHF	P14 T4 B1 A1	15	35	7.200	-0.450	-0.010	1.000	1.047	50.000	4.190
3/18/2025	B31	430.0125	BODY	CW	0179-E	UHF	P14 T5 B1 A1	15	35	8.040	-0.070	-0.010	1.000	1.047	50.000	4.287
3/18/2025	B32	430.0125	BODY	CW	0179-E	UHF	P5 T5 B1 A1	15	35	8.990	-0.270	-0.010	1.000	1.047	50.000	5.020
3/18/2025	B33	430.0125	BODY	CW	0179-E	UHF	P7 T5 B1 A1	15	35	9.270	-0.380	-0.010	1.000	1.047	50.000	5.309
3/18/2025	B34	430.0125	BODY	CW	0179-E	UHF	P7 T5 B14 A1	5	25	6.770	-0.400	-0.010	1.000	1.047	50.000	3.895
3/18/2025	B35	430.0125	BODY	CW	0179-E	UHF	P7 T5 B14/B19 A1	7	27	6.630	0.030	-0.010	1.000	1.047	50.000	3.479
3/18/2025	B36	430.0125	BODY	CW	0179-E	UHF	P5 T5 B22/B3 A1	40	70	1.910	-0.220	-0.010	1.000	1.047	50.000	1.054
3/18/2025	B37	430.0125	BODY	CW	0179-E	UHF	P7 T5 B2/B3 A1	30	60	5.040	-0.050	-0.010	1.000	1.047	50.000	2.675
3/18/2025	B38	430.0125	BODY	CW	0179-E	UHF	P5 T5 B21 A1	10	30	6.170	-0.110	-0.010	1.000	1.047	50.000	3.320
6/3/2025	B40R	406.1	BODY	CW	0179-E	UHF	P7 T5 B1 A1	15	35	9.720	-0.600	-0.020	1.000	1.085	50.000	6.082
6/3/2025	B41	450.0125	BODY	CW	0179-E	UHF	P7 T5 B1 A1	15	35	8.830	-0.730	-0.030	1.000	1.052	50.000	5.533
6/6/2025	B310	430.0125	BODY	CW	0179-E NL	UHF	P7 T5 B1 A1	15	35	9.540	-0.110	-0.010	1.000	1.018	50.000	4.992
Zoom Scan																
3/17/2025	B30Z	430.0125	BODY	CW	0179-E	UHF	P14 T4 B1 A1	15	35	6.460	-0.350	-0.010	1.000	1.047	50.000	3.674
3/18/2025	B31Z	430.0125	BODY	CW	0179-E	UHF	P14 T5 B1 A1	15	35	7.890	0.000	-0.010	1.000	1.047	50.000	4.140
3/18/2025	B32Z	430.0125	BODY	CW	0179-E	UHF	P5 T5 B1 A1	15	35	8.540	0.040	-0.010	1.000	1.047	50.000	4.481
3/18/2025	B33Z	430.0125	BODY	CW	0179-E	UHF	P7 T5 B1 A1	15	35	8.770	0.000	-0.010	1.000	1.047	50.000	4.602
3/18/2025	B34Z	430.0125	BODY	CW	0179-E	UHF	P7 T5 B14 A1	5	25	6.460	-0.080	-0.010	1.000	1.047	50.000	3.453
3/18/2025	B35Z	430.0125	BODY	CW	0179-E	UHF	P7 T5 B14/B19 A1	7	27	6.680	0.010	-0.010	1.000	1.047	50.000	3.505
3/18/2025	B36Z	430.0125	BODY	CW	0179-E	UHF	P5 T5 B22/B3 A1	40	70	1.890	0.000	-0.010	1.000	1.047	50.000	0.992
6/3/2025	B39R	430.0125	BODY	CW	0179-E	UHF	P7 T5 B37 A1	12	32	5.760	-0.460	-0.010	1.000	1.070	50.000	3.434
6/3/2025	B39R	430.0125	BODY	CW	0179-E	UHF	P7 T5 B37 A1	12	32	5.570	0.010	-0.010	1.000	1.070	50.000	2.987
6/3/2025	B40RZ	406.1	BODY	CW	0179-E	UHF	P7 T5 B1 A1	15	35	8.350	-0.020	-0.020	1.000	1.085	50.000	4.572
6/3/2025	B41Z	450.0125	BODY	CW	0179-E	UHF	P7 T5 B1 A1	15	35	7.960	0.030	-0.030	1.000	1.052	50.000	4.216
6/6/2025	B310Z	430.0125	BODY	CW	0179-E NL	UHF	P7 T5 B1 A1	15	35	9.710	0.040	-0.010	1.000	1.018	50.000	4.954
Applicable SAR Limit							Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6				Occupational / User Aware					8.0 W/kg				

Table 10.4: Measured Results – TNF FACE- UHF

Measured 1g SAR Results - FACE Configuration																
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	<u>reported</u> SAR (W/kg)
			Pos	Mode	DUT	Mod		DUT (mm)	Antenna (mm)							
Area Scan																
6/3/2025	F30	430.0125	FACE	CW	0179-E	UHF	P7 T4 --	25	65	4.010	-0.120	-0.010	1.000	1.070	50.000	2.211
6/3/2025	F31	430.0125	FACE	CW	0179-E	UHF	P7 T5 --	25	65	3.770	-0.150	-0.010	1.000	1.070	50.000	2.093
6/6/2025	F310	430.0125	FACE	CW	0179-E NL	UHF	P7 T4 --	25	65	1.880	0.310	-0.010	1.000	1.018	50.000	0.959
Zoom Scan																
6/3/2025	F30Z	430.0125	FACE	CW	0179-E	UHF	P7 T4 --	25	65	3.670	-0.330	-0.010	1.000	1.070	50.000	2.123
6/3/2025	F31Z	430.0125	FACE	CW	0179-E	UHF	P7 T5 --	25	65	3.730	-0.040	-0.010	1.000	1.070	50.000	2.019
6/6/2025	F310	430.0125	FACE	CW	0179-E NL	UHF	P7 T4 --	25	65	1.880	0.310	-0.010	1.000	1.018	50.000	0.959
Applicable SAR Limit							Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6				Occupational / User Aware					8.0 W/kg				

Table 10.5: Measured Results – TNF BODY- 7/800 Band

Measured 1g SAR Results - BODY Configuration																
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	<u>reported</u> SAR (W/kg)
			Pos	Mode	DUT	Mod		DUT (mm)	Antenna (mm)							
Area Scan																
2/11/2025	B1	868.9875	BODY	CW	0179-E	7/800	P14 T4 B1 A1	15	35	4.210	0.740	0.000	1.000	1.000	50.000	2.105
2/12/2025	B2	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	10.200	-0.230	0.000	1.000	1.000	50.000	5.377
2/12/2025	B3	868.9875	BODY	CW	0179-E	7/800	P14 T6 B1 A1	15	35	10.100	-0.220	0.000	1.000	1.000	50.000	5.312
2/12/2025	B4	868.9875	BODY	CW	0179-E	7/800	P14 T7 B1 A1	15	35	6.310	-0.320	0.000	1.000	1.000	50.000	3.396
2/12/2025	B6	868.9875	BODY	CW	0179-E	7/800	P5 T5 B1 A1	15	35	5.950	-0.390	0.000	1.000	1.000	50.000	3.255
2/12/2025	B7	868.9875	BODY	CW	0179-E	7/800	P7 T5 B1 A1	15	35	5.210	-0.270	0.000	1.000	1.000	50.000	2.772
2/12/2025	B9	860	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	3.560	-0.070	-0.030	1.000	1.000	50.000	1.821
2/12/2025	B10	851.0125	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	5.030	-0.150	-0.280	1.000	1.000	50.000	2.777
2/12/2025	B11	806.0125	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	5.480	-0.140	-0.550	1.000	1.000	50.000	3.212
3/13/2025	B12	868.9875	BODY	CW	0179-E	7/800	P14 T5 B14 A1	5	25	5.180	-0.430	0.000	1.000	1.000	50.000	2.860
3/13/2025	B13	868.9875	BODY	CW	0179-E	7/800	P14 T5 B14/B19 A1	7	27	3.220	-0.300	0.000	1.000	1.000	50.000	1.725
3/13/2025	B14	868.9875	BODY	CW	0179-E	7/800	P14 T5 B22/B3 A1	40	70	0.750	0.570	0.000	1.000	1.000	50.000	0.375
3/13/2025	B15	868.9875	BODY	CW	0179-E	7/800	P14 T5 B2/B3 A1	30	60	2.130	-0.340	0.000	1.000	1.000	50.000	1.152
3/13/2025	B16	868.9875	BODY	CW	0179-E	7/800	P14 T5 B21 A1	10	30	3.340	-0.420	0.000	1.000	1.000	50.000	1.840
3/13/2025	B17	868.9875	BODY	CW	0179-E	7/800	P14 T5 B37 A1	12	32	3.960	-0.170	0.000	1.000	1.000	50.000	2.059
2/14/2025	B20	768.0125	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	3.880	-0.080	-0.260	1.000	1.005	50.000	2.108
2/14/2025	B21	769.0125	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	4.392	-0.060	-0.300	1.000	1.005	50.000	2.398
2/14/2025	B22	771.0125	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	4.320	0.490	-0.350	1.000	1.005	50.000	2.353
2/14/2025	B23	775.0125	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	3.820	-0.070	-0.310	1.000	1.005	50.000	2.095
6/6/2025	B300	868.9875	BODY	CW	0179-E NL	7/800	P14 T5 B1 A1	15	35	3.420	-0.290	0.000	1.000	1.000	50.000	1.828
Zoom Scan																
2/11/2025	B1Z	868.9875	BODY	CW	0179-E	7/800	P14 T4 B1 A1	15	35	4.000	0.740	0.000	1.000	1.000	50.000	2.000
2/12/2025	B2Z	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	9.840	-0.220	0.000	1.000	1.000	50.000	5.176
2/12/2025	B3Z	868.9875	BODY	CW	0179-E	7/800	P14 T6 B1 A1	15	35	9.540	-0.130	0.000	1.000	1.000	50.000	4.915
2/12/2025	B4Z	868.9875	BODY	CW	0179-E	7/800	P14 T7 B1 A1	15	35	6.140	-0.150	0.000	1.000	1.000	50.000	3.178
2/12/2025	B6Z	868.9875	BODY	CW	0179-E	7/800	P5 T5 B1 A1	15	35	5.610	-0.240	0.000	1.000	1.000	50.000	2.964
3/13/2025	B15Z	868.9875	BODY	CW	0179-E	7/800	P14 T5 B2/B3 A1	30	60	2.090	-0.100	0.000	1.000	1.000	50.000	1.069
6/6/2025	B300Z	868.9875	BODY	CW	0179-E NL	7/800	P14 T5 B1 A1	15	35	3.390	-0.310	0.000	1.000	1.000	50.000	1.820
Applicable SAR Limit							Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6				Occupational/User Aware					8.0 W/kg				

Table 10.6: Measured Results – TNF FACE – 7/800 Band

Measured 1g SAR Results - FACE Configuration																
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	<u>reported SAR (W/kg)</u>
			Pos	Mode	DUT	Mod		DUT (mm)	Antenna (mm)							SAR (W/kg)
Area Scan																
2/14/2025	F1	868.9875	FACE	CW	0179-E	7/800	P7 T4 --	25	65	0.855	-0.420	0.000	1.000	1.000	50.000	0.471
2/14/2025	F2	868.9875	FACE	CW	0179-E	7/800	P7 T5 --	25	65	3.240	-0.410	0.000	1.000	1.000	50.000	1.780
2/14/2025	F3	868.9875	FACE	CW	0179-E	7/800	P7 T6 --	25	65	2.870	-0.410	0.000	1.000	1.000	50.000	1.577
2/14/2025	F4	868.9875	FACE	CW	0179-E	7/800	P7 T7 --	25	65	2.340	-0.130	0.000	1.000	1.000	50.000	1.206
6/6/2025	F300	868.9875	FACE	CW	0179-E NL	7/800	P7 T5 --	25	65	2.170	-0.580	0.000	1.000	1.000	50.000	1.240
Zoom Scan																
2/14/2025	F1Z	868.9875	FACE	CW	0179-E	7/800	P7 T4 --	25	65	0.828	-0.420	0.000	1.000	1.000	50.000	0.456
2/14/2025	F2Z	868.9875	FACE	CW	0179-E	7/800	P7 T5 --	25	65	2.930	-0.060	0.000	1.000	1.000	50.000	1.485
6/6/2025	F300Z	868.9875	FACE	CW	0179-E NL	7/800	P7 T5 --	25	65	2.110	-0.030	0.000	1.000	1.000	50.000	1.062
Applicable SAR Limit							Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6				Occupational/User Aware					8.0 W/kg				

Table 10.7: Measured Results – PCS BODY 1/4

Measured 1g SAR Results - BODY Configuration																		
Date	Plot ID	Test Frequency (MHz)	DUT Configuration					Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)	
			Pos	Mode	DUT	BW	Mod		DUT (mm)	Antenna (mm)								
Area Scan																		
4/15/2025	B110	885	BODY	RB1-1	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.170	0.090	-0.290	1.000	1.000	100.000	1.251	
4/15/2025	B111	885	BODY	RB25-1	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.200	-0.090	-0.270	1.000	1.000	100.000	1.304	
4/16/2025	B112	897.5	BODY	RB1-2	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.410	0.610	-0.370	1.000	1.000	100.000	1.535	
4/16/2025	B113	910	BODY	RB1-3	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	0.993	-0.160	-0.050	1.000	1.000	100.000	1.042	
4/17/2025	B114	897.5	BODY	RB25-2	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	0.864	-0.020	-0.730	1.000	1.000	100.000	1.027	
4/17/2025	B115	910	BODY	RB25-3	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.080	-0.210	-0.440	1.000	1.000	100.000	1.254	
4/22/2025	B120	2535	BODY	RB1-1	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.220	-0.140	-0.290	1.000	1.000	100.000	1.347	
4/22/2025	B121	2510	BODY	RB1-2	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.000	-0.220	-0.420	1.000	1.000	100.000	1.159	
4/22/2025	B122	2560	BODY	RB1-3	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.040	-0.370	-0.550	1.000	1.000	100.000	1.285	
4/22/2025	B123	2560	BODY	RB50-1	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.400	-0.090	-0.050	1.000	1.000	100.000	1.446	
4/22/2025	B124	2535	BODY	RB50-2	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.170	-0.190	-0.660	1.000	1.000	100.000	1.423	
4/22/2025	B125	2510	BODY	RB50-3	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	0.832	-0.180	-0.910	1.000	1.000	100.000	1.069	
4/22/2025	B126	2560	BODY	RB100-1	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.230	-0.130	-0.140	1.000	1.000	100.000	1.309	
4/25/2025	B130	2350	BODY	RB1-1	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.378	-0.430	-0.150	1.000	1.000	100.000	0.432	
4/25/2025	B131	2310	BODY	RB1-2	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.836	-0.410	-0.360	1.000	1.000	100.000	0.998	
4/25/2025	B132	2390	BODY	RB1-3	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	1.120	-0.290	-0.380	1.000	1.000	100.000	1.307	
4/25/2025	B133	2350	BODY	RB50-1	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	1.320	-0.430	-0.020	1.000	1.000	100.000	1.464	
4/25/2025	B134	2390	BODY	RB50-2	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.946	-0.180	-0.230	1.000	1.000	100.000	1.040	
4/25/2025	B135	2310	BODY	RB50-3	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	1.110	-0.530	-0.300	1.000	1.000	100.000	1.344	
4/25/2025	B136	2350	BODY	RB100-1	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.753	-0.160	-0.150	1.000	1.000	100.000	0.809	
4/29/2025	B140	1930	BODY	RB1-1	0179-E	20 MHz	LTE B1	P14 T7 B1 A1	15	35	0.896	-0.190	-0.040	1.000	1.000	100.000	0.945	
4/29/2025	B141	1950	BODY	RB1-2	0179-E	20 MHz	LTE B1	P14 T7 B1 A1	15	35	0.984	-0.290	-0.180	1.000	1.000	100.000	1.096	
4/29/2025	B142	1970	BODY	RB1-3	0179-E	20 MHz	LTE B1	P14 T7 B1 A1	15	35	0.760	-0.150	-0.940	1.000	1.000	100.000	0.977	
4/29/2025	B143	1930	BODY	RB50-1	0179-E	20 MHz	LTE B1	P14 T7 B1 A1	15	35	0.377	-0.080	-0.010	1.000	1.000	100.000	0.385	
4/29/2025	B144	1930	BODY	RB100-1	0179-E	20 MHz	LTE B1	P14 T7 B1 A1	15	35	0.490	-0.130	-0.270	1.000	1.000	100.000	0.537	
4/30/2025	B150	1882.5	BODY	RB1-1	0179-E	20 MHz	LTE B2/25	P14 T7 B1 A1	15	35	0.622	-0.170	-0.090	1.000	1.000	100.000	0.660	
4/30/2025	B151	1882.5	BODY	RB50-1	0179-E	20 MHz	LTE B2/25	P14 T7 B1 A1	15	35	0.565	-0.050	-0.080	1.000	1.000	100.000	0.582	
5/1/2025	B160R	1745	BODY	RB1-1	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	1.150	-0.250	-0.140	1.000	1.000	100.000	1.258	
5/1/2025	B161	1770	BODY	RB1-2	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	1.290	0.050	-0.180	1.000	1.000	100.000	1.345	
5/1/2025	B162	1720	BODY	RB1-3	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	1.080	0.000	-0.510	1.000	1.000	100.000	1.215	
5/1/2025	B163	1745	BODY	RB50-1	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	0.893	-0.190	-0.030	1.000	1.000	100.000	0.939	
5/1/2025	B164	1720	BODY	RB50-2	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	0.954	-0.130	-0.330	1.000	1.000	100.000	1.061	
5/1/2025	B165	1770	BODY	RB50-3	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	1.090	-0.240	-0.410	1.000	1.000	100.000	1.266	
5/1/2025	B166	1770	BODY	RB100-1	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	0.603	0.020	-0.020	1.000	1.000	100.000	0.606	
Applicable SAR Limit								Use Group					Limit					
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware					1.6 W/kg					

Table 10.8: Measured Results – PCS BODY 2/4

Measured 1g SAR Results - BODY Configuration																	
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)	
			Pos	Mode		BW		Mod	DUT (mm)								Antenna (mm)
Area Scan (cont'd)																	
5/24/2025	B170	3690	BODY	RB1-1	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.859	-0.190	-0.050	1.000	1.000	100.000	0.908
5/24/2025	B171R	3650	BODY	RB1-2	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.768	0.020	-0.140	1.000	1.000	100.000	0.793
5/24/2025	B172	3610	BODY	RB1-3	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.675	-0.520	-0.090	1.000	1.000	100.000	0.777
5/24/2025	B173	3690	BODY	RB50-1	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.877	-0.140	-0.170	1.000	1.000	100.000	0.942
5/24/2025	B174	3650	BODY	RB50-2	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.707	0.120	-0.140	1.000	1.000	100.000	0.730
5/24/2025	B175	3610	BODY	RB50-3	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.451	-0.230	-0.150	1.000	1.000	100.000	0.492
5/24/2025	B176	3690	BODY	RB100-1	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.584	-0.040	-0.180	1.000	1.000	100.000	0.614
5/26/2025	B180	841.5	BODY	RB1-1	0179-E	20 MHz	LTE B5/26	P14 T7 B1 A1	15	35	0.917	-0.190	-0.090	1.000	1.000	100.000	0.978
5/27/2025	B181	831.5	BODY	RB1-2	0179-E	20 MHz	LTE B5/26	P14 T7 B1 A1	15	35	0.662	-0.150	-0.100	1.000	1.000	100.000	0.701
5/27/2025	B182	821.5	BODY	RB50-1	0179-E	20 MHz	LTE B5/26	P14 T7 B1 A1	15	35	0.727	-0.840	-0.080	1.000	1.000	100.000	0.899
5/28/2025	B190	781.91	BODY	RB1-1	0179-E	10 MHz	LTE B13	P14 T7 B1 A1	15	35	1.070	-0.110	-0.040	1.000	1.021	100.000	1.131
5/28/2025	B191	788.405	BODY	RB1-2	0179-E	10 MHz	LTE B13	P14 T7 B1 A1	15	35	0.732	0.020	-0.580	1.000	1.015	100.000	0.849
5/28/2025	B192	781.9	BODY	RB50-1	0179-E	10 MHz	LTE B13	P14 T7 B1 A1	15	35	0.894	-0.130	-0.060	1.000	1.021	100.000	0.954
5/28/2025	B193	784	BODY	RB50-2	0179-E	10 MHz	LTE B13	P14 T7 B1 A1	15	35	0.731	-0.190	-0.270	1.000	1.021	100.000	0.830
5/29/2025	B200	788.59	BODY	RB1-1	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.786	-0.220	-0.020	1.000	1.000	100.000	0.831
5/29/2025	B201	797.405	BODY	RB1-2	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.743	-0.070	-0.550	1.000	1.000	100.000	0.857
5/29/2025	B202	792.91	BODY	RB1-3	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.685	-0.310	-0.730	1.000	1.000	100.000	0.870
5/29/2025	B203	790.71	BODY	RB50-1	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.810	-0.180	-0.030	1.000	1.000	100.000	0.850
5/29/2025	B204	792.9	BODY	RB50-2	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.728	0.070	-0.170	1.000	1.000	100.000	0.757
5/30/2025	B210	710.91	BODY	RB1-1	0179-E	10 MHz	LTE B12	P14 T7 B1 A1	15	35	0.755	0.010	-0.090	1.000	1.019	100.000	0.785
5/30/2025	B211	710.9	BODY	RB50-1	0179-E	10 MHz	LTE B12	P14 T7 B1 A1	15	35	0.625	0.130	-0.080	1.000	1.019	100.000	0.649
5/30/2025	B220	737.9	BODY	RB1-1	0179-E	20 MHz	LTE B28	P14 T7 B1 A1	15	35	1.070	-0.340	-0.020	1.000	1.000	100.000	1.162
5/30/2025	B221	725.4	BODY	RB1-2	0179-E	20 MHz	LTE B28	P14 T7 B1 A1	15	35	0.453	-0.180	-0.080	1.000	1.005	100.000	0.483
5/30/2025	B222	708.49	BODY	RB50-1	0179-E	20 MHz	LTE B28	P14 T7 B1 A1	15	35	0.615	-0.150	-0.110	1.000	1.021	100.000	0.667
5/30/2025	B230	672.9	BODY	RB1-1	0179-E	20 MHz	LTE B71	P14 T7 B1 A1	15	35	0.320	0.100	-0.030	1.000	1.054	100.000	0.340
5/30/2025	B231	672.82	BODY	RB50-1	0179-E	20 MHz	LTE B71	P14 T7 B1 A1	15	35	0.245	0.060	-0.050	1.000	1.054	100.000	0.261
6/10/2025	B400	2671.09	BODY	RB1-1	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	0.699	-0.100	-0.090	1.000	1.000	100.000	0.730
6/10/2025	B401	2684.3	BODY	RB50-1	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	0.861	-0.020	-0.040	1.000	1.000	100.000	0.873
6/10/2025	B402	2501.49	BODY	RB50-2	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	1.470	-0.120	-0.190	1.000	1.000	100.000	1.579
6/10/2025	B402R	2501.49	BODY	RB50-2	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	1.150	-0.100	-0.190	1.000	1.000	100.000	1.229
6/10/2025	B403	2597.3	BODY	RB50-3	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	1.250	-0.220	-0.160	1.000	1.000	100.000	1.364
6/10/2025	B404	2506	BODY	RB100-1	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	0.828	-0.200	-0.050	1.000	1.000	100.000	0.877
Applicable SAR Limit								Use Group				Limit					
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware				1.6 W/kg					

Table 10.9: Measured Results – PCS BODY 3/4

Measured 1g SAR Results - BODY Configuration																	
Date	Plot ID	Test Frequency (MHz)	DUT Configuration					Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)
			Pos	Mode	DUT	BW	Mod		DUT (mm)	Antenna (mm)							
Zoom Scan																	
4/15/2025	B110Z	885	BODY	RB1-1	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.110	0.080	-0.290	1.000	1.000	100.000	1.187
4/15/2025	B111Z	885	BODY	RB25-1	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.050	-0.070	-0.270	1.000	1.000	100.000	1.136
4/16/2025	B112Z	897.5	BODY	RB1-2	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.400	-0.070	-0.370	1.000	1.000	100.000	1.549
4/16/2025	B113Z	910	BODY	RB1-3	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.040	0.000	-0.050	1.000	1.000	100.000	1.052
4/17/2025	B114Z	897.5	BODY	RB25-2	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	0.885	0.950	-0.730	1.000	1.000	100.000	1.047
4/17/2025	B115Z	910	BODY	RB25-3	0179-E	10 MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.020	-0.010	-0.440	1.000	1.000	100.000	1.131
4/22/2025	B120Z	2535	BODY	RB1-1	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.120	-0.230	-0.290	1.000	1.000	100.000	1.262
4/22/2025	B121Z	2510	BODY	RB1-2	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	0.918	-0.150	-0.420	1.000	1.000	100.000	1.047
4/22/2025	B122Z	2560	BODY	RB1-3	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	0.950	-0.290	-0.550	1.000	1.000	100.000	1.153
4/22/2025	B123Z	2560	BODY	RB50-1	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.320	-0.060	-0.050	1.000	1.000	100.000	1.354
4/22/2025	B124Z	2535	BODY	RB50-2	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.090	-0.080	-0.660	1.000	1.000	100.000	1.292
4/22/2025	B125Z	2510	BODY	RB50-3	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	0.783	-0.070	-0.910	1.000	1.000	100.000	0.981
4/22/2025	B126Z	2560	BODY	RB100-1	0179-E	20 MHz	LTE B7	P14 T7 B1 A1	15	35	1.040	-0.030	-0.140	1.000	1.000	100.000	1.082
4/25/2025	B130Z	2350	BODY	RB1-1	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.295	0.190	-0.150	1.000	1.000	100.000	0.305
4/25/2025	B131Z	2310	BODY	RB1-2	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.748	-0.390	-0.360	1.000	1.000	100.000	0.889
4/25/2025	B132Z	2390	BODY	RB1-3	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.988	-0.270	-0.380	1.000	1.000	100.000	1.148
4/25/2025	B133Z	2350	BODY	RB50-1	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	1.100	0.010	-0.020	1.000	1.000	100.000	1.105
4/25/2025	B134Z	2390	BODY	RB50-2	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.828	-0.080	-0.230	1.000	1.000	100.000	0.889
4/25/2025	B135Z	2310	BODY	RB50-3	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.964	-0.370	-0.300	1.000	1.000	100.000	1.125
4/25/2025	B136Z	2350	BODY	RB100-1	0179-E	20 MHz	LTE B40	P14 T7 B1 A1	15	35	0.702	-0.180	-0.150	1.000	1.000	100.000	0.757
4/29/2025	B140Z	1930	BODY	RB1-1	0179-E	20 MHz	LTE B1	P14 T7 B1 A1	15	35	0.840	-0.370	-0.040	1.000	1.000	100.000	0.923
4/29/2025	B141Z	1950	BODY	RB1-2	0179-E	20 MHz	LTE B1	P14 T7 B1 A1	15	35	0.880	-0.440	-0.180	1.000	1.000	100.000	1.015
4/29/2025	B142Z	1970	BODY	RB1-3	0179-E	20 MHz	LTE B1	P14 T7 B1 A1	15	35	0.695	-0.200	-0.940	1.000	1.000	100.000	0.904
5/1/2025	B160RZ	1745	BODY	RB1-1	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	1.060	-0.200	-0.140	1.000	1.000	100.000	1.146
5/1/2025	B161Z	1770	BODY	RB1-2	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	1.260	0.030	-0.180	1.000	1.000	100.000	1.313
5/1/2025	B162Z	1720	BODY	RB1-3	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	1.060	-0.070	-0.510	1.000	1.000	100.000	1.211
5/1/2025	B163Z	1745	BODY	RB50-1	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	0.849	-0.090	-0.030	1.000	1.000	100.000	0.873
5/1/2025	B164Z	1720	BODY	RB50-2	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	0.909	-0.100	-0.330	1.000	1.000	100.000	1.004
5/1/2025	B165Z	1770	BODY	RB50-3	0179-E	20 MHz	LTE B3/4/66	P14 T7 B1 A1	15	35	1.040	-0.240	-0.410	1.000	1.000	100.000	1.208
Applicable SAR Limit								Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware					1.6 W/kg				

Table 10.10: Measured Results – PCS BODY 4/4

Measured 1g SAR Results - BODY Configuration																	
Date	Plot ID	Test Frequency (MHz)	DUT Configuration					Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)
			Pos	Mode	DUT	BW	Mod		DUT (mm)	Antenna (mm)							
Zoom Scan (cont'd)																	
5/24/2025	B170Z	3690	BODY	RB1-1	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.868	-0.440	-0.050	1.000	1.000	100.000	0.972
5/24/2025	B171RZ	3650	BODY	RB1-2	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.804	-0.060	-0.140	1.000	1.000	100.000	0.842
5/24/2025	B172Z	3610	BODY	RB1-3	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.717	-0.510	-0.090	1.000	1.000	100.000	0.823
5/24/2025	B173Z	3690	BODY	RB50-1	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.787	-0.290	-0.170	1.000	1.000	100.000	0.875
5/24/2025	B174Z	3650	BODY	RB50-2	0179-E	20 MHz	LTE B48	P14 T7 B1 A1	15	35	0.767	-0.200	-0.140	1.000	1.000	100.000	0.829
5/26/2025	B180Z	841.5	BODY	RB1-1	0179-E	20 MHz	LTE B5/26	P14 T7 B1 A1	15	35	0.771	-0.290	-0.090	1.000	1.000	100.000	0.842
5/27/2025	B182Z	821.5	BODY	RB50-1	0179-E	20 MHz	LTE B5/26	P14 T7 B1 A1	15	35	0.657	-0.190	-0.080	1.000	1.000	100.000	0.699
5/28/2025	B190Z	781.91	BODY	RB1-1	0179-E	10 MHz	LTE B13	P14 T7 B1 A1	15	35	0.936	-0.070	-0.040	1.000	1.021	100.000	0.980
5/28/2025	B191Z	788.405	BODY	RB1-2	0179-E	10 MHz	LTE B13	P14 T7 B1 A1	15	35	0.645	-0.090	-0.580	1.000	1.015	100.000	0.764
5/28/2025	B192Z	781.9	BODY	RB50-1	0179-E	10 MHz	LTE B13	P14 T7 B1 A1	15	35	0.822	-0.210	-0.060	1.000	1.021	100.000	0.893
5/28/2025	B193Z	784	BODY	RB50-2	0179-E	10 MHz	LTE B13	P14 T7 B1 A1	15	35	0.687	-0.110	-0.270	1.000	1.021	100.000	0.766
5/29/2025	B200Z	788.59	BODY	RB1-1	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.739	-0.300	-0.020	1.000	1.000	100.000	0.796
5/29/2025	B201Z	797.405	BODY	RB1-2	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.678	-0.270	-0.550	1.000	1.000	100.000	0.819
5/29/2025	B202Z	792.91	BODY	RB1-3	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.657	-0.320	-0.730	1.000	1.000	100.000	0.837
5/29/2025	B203Z	790.71	BODY	RB50-1	0179-E	10 MHz	LTE B14	P14 T7 B1 A1	15	35	0.852	-0.190	-0.030	1.000	1.000	100.000	0.896
5/30/2025	B220Z	737.9	BODY	RB1-1	0179-E	20 MHz	LTE B28	P14 T7 B1 A1	15	35	0.969	-0.370	-0.020	1.000	1.000	100.000	1.060
6/10/2025	B400Z	2671.09	BODY	RB1-1	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	0.558	-0.100	-0.090	1.000	1.000	100.000	0.583
6/10/2025	B401Z	2684.3	BODY	RB50-1	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	0.797	-0.100	-0.040	1.000	1.000	100.000	0.823
6/10/2025	B402Z	2501.49	BODY	RB50-2	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	1.250	-0.360	-0.190	1.000	1.000	100.000	1.419
6/10/2025	B402RZ	2501.49	BODY	RB50-2	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	1.050	-0.150	-0.190	1.000	1.000	100.000	1.136
6/10/2025	B403Z	2597.3	BODY	RB50-3	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	0.789	-0.280	-0.160	1.000	1.000	100.000	0.873
6/10/2025	B404Z	2506	BODY	RB100-1	0179-E	20 MHz	LTE B41	P14 T7 B1 A1	15	35	0.563	-0.130	-0.050	1.000	1.000	100.000	0.587
Applicable SAR Limit								Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware					1.6 W/kg				

Table 10.11: Measured Results – PCS FACE

Measured 1g SAR Results - FACE Configuration																	
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)	
			Pos	Mode	DUT	BW		Mod	DUT (mm)								Antenna (mm)
Area Scan																	
4/15/2025	F110	885	FACE	RB1-1	0179-E	10 MHz	LTE B8/106	P7 T7 --	25	65	0.117	-0.390	-0.290	1.000	1.000	100.000	0.014
4/15/2025	F111	885	FACE	RB25-1	0179-E	10 MHz	LTE B8/106	P7 T7 --	25	65	0.156	0.600	-0.270	1.000	1.000	100.000	0.166
4/22/2025	F120	2535	FACE	RB1-1	0179-E	20 MHz	LTE B7	P7 T7 --	25	65	0.023	0.210	-0.290	1.000	1.000	100.000	0.024
4/22/2025	F121	2560	FACE	RB50-1	0179-E	20 MHz	LTE B7	P7 T7 --	25	65	0.034	0.200	-0.050	1.000	1.000	100.000	0.034
4/25/2025	F130	2350	FACE	RB1-1	0179-E	20 MHz	LTE B40	P7 T7 --	25	65	0.013	0.860	-0.150	1.000	1.000	100.000	0.013
4/25/2025	F131	2350	FACE	RB50-1	0179-E	20 MHz	LTE B40	P7 T7 --	25	65	0.009	3.270	-0.020	1.000	1.000	100.000	0.009
4/29/2025	F140	1930	FACE	RB1-1	0179-E	20 MHz	LTE B1	P7 T7 --	25	65	0.006	2.350	-0.040	1.000	1.000	100.000	0.006
4/29/2025	F141	1930	FACE	RB50-1	0179-E	20 MHz	LTE B1	P7 T7 --	25	65	0.007	1.230	-0.010	1.000	1.000	100.000	0.007
4/30/2025	F150	1882.5	FACE	RB1-1	0179-E	20 MHz	LTE B2/25	P7 T7 --	25	65	0.009	0.060	-0.090	1.000	1.000	100.000	0.009
4/30/2025	F150	1882.5	FACE	RB50-1	0179-E	20 MHz	LTE B2/25	P7 T7 --	25	65	0.010	0.940	-0.080	1.000	1.000	100.000	0.011
5/1/2025	F160	1745	FACE	RB1-1	0179-E	20 MHz	LTE B3/4/66	P7 T7 --	25	65	0.015	0.670	-0.140	1.000	1.000	100.000	0.016
5/1/2025	F161	1745	FACE	RB50-1	0179-E	20 MHz	LTE B3/4/66	P7 T7 --	25	65	0.012	1.250	-0.030	1.000	1.000	100.000	0.012
5/24/2025	F170	3690	FACE	RB1-1	0179-E	20 MHz	LTE B48	P7 T7 --	25	65	0.047	2.910	-0.050	1.000	1.000	100.000	0.048
5/24/2025	F171	3690	FACE	RB50-1	0179-E	20 MHz	LTE B48	P7 T7 --	25	65	0.016	7.250	-0.170	1.000	1.000	100.000	0.017
5/27/2025	F181	841.5	FACE	RB1-1	0179-E	20 MHz	LTE B5/26	P7 T7 --	25	65	0.027	-0.210	-0.090	1.000	1.000	100.000	0.029
5/27/2025	F182	821.5	FACE	RB50-1	0179-E	20 MHz	LTE B5/26	P7 T7 --	25	65	0.038	0.040	-0.080	1.000	1.000	100.000	0.039
5/28/2025	F190	781.91	FACE	RB1-1	0179-E	10 MHz	LTE B13	P7 T7 --	25	65	0.025	0.220	-0.040	1.000	1.021	100.000	0.026
5/28/2025	F191	781.9	FACE	RB50-1	0179-E	10 MHz	LTE B13	P7 T7 --	25	65	0.027	0.460	-0.060	1.000	1.021	100.000	0.028
5/29/2025	F200	788.59	FACE	RB1-1	0179-E	10 MHz	LTE B14	P7 T7 --	25	65	0.035	-0.350	-0.020	1.000	1.000	100.000	0.038
5/29/2025	F201	790.71	FACE	RB50-1	0179-E	10 MHz	LTE B14	P7 T7 --	25	65	0.034	0.120	-0.030	1.000	1.000	100.000	0.034
5/30/2025	F210	710.91	FACE	RB1-1	0179-E	10 MHz	LTE B12	P7 T7 --	25	65	0.089	0.120	-0.090	1.000	1.019	100.000	0.093
5/30/2025	F211	710.9	FACE	RB50-1	0179-E	10 MHz	LTE B12	P7 T7 --	25	65	0.765	0.260	-0.080	1.000	1.019	100.000	0.079
5/30/2025	F220	737.9	FACE	RB1-1	0179-E	20 MHz	LTE B28	P7 T7 --	25	65	0.088	0.200	-0.020	1.000	1.000	100.000	0.088
5/30/2025	F221	708.49	FACE	RB50-1	0179-E	20 MHz	LTE B28	P7 T7 --	25	65	0.071	0.170	-0.110	1.000	1.021	100.000	0.074
5/30/2025	F230	672.9	FACE	RB1-1	0179-E	20 MHz	LTE B71	P7 T7 --	25	65	0.039	-0.080	-0.030	1.000	1.054	100.000	0.042
5/30/2025	F231	672.82	FACE	RB50-1	0179-E	20 MHz	LTE B71	P7 T7 --	25	65	0.027	1.110	-0.050	1.000	1.054	100.000	0.028
6/10/2025	F400	2671.09	FACE	RB1-1	0179-E	20 MHz	LTE B41	P7 T7 --	25	65	0.009	0.990	-0.090	1.000	1.000	100.000	0.010
6/10/2025	F401	2684.3	FACE	RB50-1	0179-E	20 MHz	LTE B41	P7 T7 --	25	65	0.010	4.220	-0.040	1.000	1.000	100.000	0.010
Zoom Scan																	
4/15/2025	F110Z	885	FACE	RB1-1	0179-E	10 MHz	LTE B8/106	P7 T7 --	25	65	0.019	0.100	-0.290	1.000	1.000	100.000	0.020
4/15/2025	F111Z	885	FACE	RB25-1	0179-E	10 MHz	LTE B8/106	P7 T7 --	25	65	0.013	0.800	-0.270	1.000	1.000	100.000	0.014
4/22/2025	F120Z	2535	FACE	RB1-1	0179-E	20 MHz	LTE B7	P7 T7 --	25	65	0.021	0.430	-0.290	1.000	1.000	100.000	0.022
4/22/2025	F121Z	2560	FACE	RB50-1	0179-E	20 MHz	LTE B7	P7 T7 --	25	65	0.029	0.370	-0.050	1.000	1.000	100.000	0.029
5/30/2025	F210Z	710.91	FACE	RB1-1	0179-E	10 MHz	LTE B12	P7 T7 --	25	65	0.048	-0.150	-0.090	1.000	1.019	100.000	0.052
Applicable SAR Limit								Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware					1.6 W/kg				

Table 10.12: Measured Results – DTS/DSS BODY

Measured 1g SAR Results - BODY Configuration																	
Date	Plot ID	Test Frequency (MHz)	DUT Configuration					Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	<u>reported SAR (W/kg)</u>
			Pos	Mode	BW	Mod	BR		DUT (mm)	Antenna (mm)							
Area Scan																	
3/26/2025	B50R	2412	BODY	802.11b	0179-E	WLAN	1	P14 T7 B1 A1	15	35	0.001	999.000	-0.150	1.000	1.000	100.000	0.001
3/26/2025	B51	2437	BODY	802.11b	0179-E	WLAN	1	P14 T7 B1 A1	15	35	0.000	999.000	-0.200	1.000	1.000	100.000	0.000
3/26/2025	B52	2462	BODY	802.11b	0179-E	WLAN	1	P14 T7 B1 A1	15	35	0.000	0.000	-0.130	1.000	1.000	100.000	0.000
3/28/2025	B60	2402	BODY	802.15	0179-E	BT	1	P14 T7 B1 A1	15	35	0.000	999.000	-2.600	1.000	1.000	100.000	0.000
3/28/2025	B61	2440	BODY	802.15	0179-E	BT	1	P14 T7 B1 A1	15	35	0.000	999.000	-1.800	1.000	1.000	100.000	0.000
3/28/2025	B62	2480	BODY	802.15	0179-E	BT	1	P14 T7 B1 A1	15	35	0.001	999.000	-1.800	1.000	1.000	100.000	0.001
4/3/2025	B70	5180	BODY	802.11a	0179-E	UNII-1	9	P14 T7 B1 A1	15	35	0.001	999.000	-0.460	1.000	1.000	100.000	0.001
4/3/2025	B71	5220	BODY	802.11a	0179-E	UNII-1	9	P14 T7 B1 A1	15	35	0.000	999.000	-0.880	1.000	1.000	100.000	0.000
4/3/2025	B72	5240	BODY	802.11a	0179-E	UNII-1	9	P14 T7 B1 A1	15	35	0.001	999.000	-0.200	1.000	1.000	100.000	0.001
4/4/2025	B80	5745	BODY	802.11a	0179-E	UNII-3	9	P14 T7 B1 A1	15	35	0.002	0.000	-0.120	1.000	1.000	100.000	0.002
4/4/2025	B81	5785	BODY	802.11a	0179-E	UNII-3	9	P14 T7 B1 A1	15	35	0.000	0.000	-0.380	1.000	1.000	100.000	0.000
4/4/2025	B82	5825	BODY	802.11a	0179-E	UNII-3	9	P14 T7 B1 A1	15	35	0.001	0.000	-0.180	1.000	1.000	100.000	0.001
6/9/2025	B330	5180	BODY	802.11a	0179-E NL	UNII-1	9	P14 T7 B1 A1	15	35	0.001	0.639	-0.460	1.000	1.000	100.000	0.001
6/9/2025	B340	5745	BODY	802.11a	0179-E NL	UNII-3	9	P14 T7 B1 A1	15	35	0.002	999.000	-0.120	1.000	1.000	100.000	0.002
6/11/2025	B350	2412	BODY	802.11b	0179-E NL	WLAN	1	P14 T7 B1 A1	15	35	0.001	999.000	-0.150	1.000	1.000	100.000	0.001
Zoom Scan																	
6/9/2025	B340Z	5745	BODY	802.11a	0179-E NL	UNII-3	9	P14 T7 B1 A1	15	35	0.002	999.000	-0.120	1.000	1.000	100.000	0.002
6/11/2025	B350Z	2412	BODY	802.11b	0179-E NL	WLAN	1	P14 T7 B1 A1	15	35	0.000	15.570	-0.150	1.000	1.000	100.000	0.000
Applicable SAR Limit								Use Group				Limit					
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware				1.6 W/kg					

Table 10.13: Measured Results – DTS/DSS FACE

Measured 1g SAR Results - FACE Configuration																	
Date	Plot ID	Test Frequency (MHz)	DUT Configuration					Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)
			Pos	Mode	DUT	Mod	BR		DUT (mm)	Antenna (mm)							
Area Scan																	
3/26/2025	F50	2412	FACE	802.11b	0179-E	WLAN	1	P14 T7 --	25	65	0.019	2.740	-0.150	1.000	1.000	100.000	0.019
3/27/2025	F60R	2402	FACE	802.15	0179-E	BT	1	P14 T7 --	25	65	0.006	3.110	-2.600	1.000	1.000	100.000	0.012
3/27/2025	F61R	2480	FACE	802.15	0179-E	BT	1	P14 T7 --	25	65	0.012	2.080	-1.800	1.000	1.000	100.000	0.018
4/3/2025	F70	5180	FACE	80211a	0179-E	UNII-1	9	P14 T7 --	25	65	0.183	0.410	-0.460	1.000	1.000	100.000	0.203
4/4/2025	F80	5745	FACE	80211a	0179-E	UNII-3	9	P14 T7 --	25	65	0.249	0.330	-0.120	1.000	1.000	50.000	0.128
6/9/2025	F330	5180	FACE	80211a	0179-E NL	UNII-1	9	P14 T7 --	25	65	0.056	0.000	-0.460	1.000	1.000	100.000	0.062
6/9/2025	F340	5745	FACE	80211a	0179-E NL	UNII-3	9	P14 T7 --	25	65	0.047	0.000	-0.120	1.000	1.000	50.000	0.024
6/11/2025	F350	2412	FACE	802.11b	0179-E NL	WLAN	1	P14 T7 --	25	65	0.002	0.290	-0.150	1.000	1.000	100.000	0.002
Zoom Scan																	
3/26/2025	F50Z	2412	FACE	802.11b	0179-E	WLAN	1	P14 T7 --	25	65	0.016	4.050	-0.150	1.000	1.000	100.000	0.016
3/27/2025	F60RZ	2402	FACE	802.15	0179-E	BT	1	P14 T7 --	25	65	0.000	3.090	-2.600	1.000	1.000	100.000	0.001
3/27/2025	F61RZ	2480	FACE	802.15	0179-E	BT	1	P14 T7 --	25	65	0.010	3.120	-1.800	1.000	1.000	100.000	0.016
4/3/2025	F70Z	5180	FACE	80211a	0179-E	UNII-1	9	P14 T7 --	25	65	0.148	0.890	-0.460	1.000	1.000	100.000	0.165
4/4/2025	F80Z	5745	FACE	80211a	0179-E	UNII-3	9	P14 T7 --	25	65	0.218	0.550	-0.120	1.000	1.000	50.000	0.112
6/9/2025	F330Z	5180	FACE	80211a	0179-E NL	UNII-1	9	P14 T7 --	25	65	0.090	0.000	-0.460	1.000	1.000	100.000	0.101
6/9/2025	F340Z	5745	FACE	80211a	0179-E NL	UNII-3	9	P14 T7 --	25	65	0.126	0.000	-0.120	1.000	1.000	50.000	0.065
6/11/2025	F350Z	2412	FACE	802.11b	0179-E NL	WLAN	1	P14 T7 --	25	65	0.001	3.110	-0.150	1.000	1.000	100.000	0.001
Applicable SAR Limit								Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware					1.6 W/kg				

Table 10.14: Measured Results – w/c spot checks 14038-1010-01 & 14038-1011-01 – TNF Body LMR

Measured 1g SAR Results - BODY Configuration																
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)
			Pos	Mode	DUT	Mod		DUT (mm)	Antenna (mm)							
Area Scan																
9/30/2025	B2WC-1010	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	9.140	-0.081	-0.500	1.000	1.000	50.000	5.224
9/30/2025	B2WC-1011	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	6.640	-0.390	-0.500	1.000	1.000	50.000	4.075
Zoom Scan																
9/30/2025	B2WCZ-1010	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	9.030	-0.010	-0.500	1.000	1.000	50.000	5.078
9/30/2025	B2WCZ-1011	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	7.080	-0.370	-0.500	1.000	1.000	50.000	4.325
Applicable SAR Limit							Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6				Occupational / User Aware					8.0 W/kg				

Table 10.15: Measured Results – w/c spot checks 14038-1010-01 & 14038-1011-01 – TNF Face UHF

Measured 1g SAR Results - BODY Configuration																
Date	Plot ID	Test Frequency (MHz)	DUT Configuration				Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	<u>reported SAR (W/kg)</u>
			Pos	Mode	DUT	Mod		DUT (mm)	Antenna (mm)							
Area Scan																
9/30/2025	B2WC-1010	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	9.140	-0.081	-0.500	1.000	1.000	50.000	5.224
9/30/2025	B2WC-1011	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	6.640	-0.390	-0.500	1.000	1.000	50.000	4.075
Zoom Scan																
9/30/2025	B2WCZ-1010	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	9.030	-0.010	-0.500	1.000	1.000	50.000	5.078
9/30/2025	B2WCZ-1011	868.9875	BODY	CW	0179-E	7/800	P14 T5 B1 A1	15	35	7.080	-0.370	-0.500	1.000	1.000	50.000	4.325
Applicable SAR Limit							Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6				Occupational / User Aware					8.0 W/kg				

Table 10.16: Measured Results – w/c spot checks 14038-1010-01 & 14038-1011-01 – PCS Body

Measured 1g SAR Results - BODY Configuration																	
Date	Plot ID	Test Frequency (MHz)	DUT Configuration					Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)
			Pos	Mode	DUT	BW	Mod		DUT (mm)	Antenna (mm)							
Area Scan																	
10/2/2025	B112WC-1010	897.5	BODY	RB1-2	0179-E	10MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.300	-0.200	-0.370	1.000	1.000	100.000	1.482
10/2/2025	B112WC-1011	897.5	BODY	RB1-2	0179-E	10MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.230	-0.130	-0.430	1.000	1.000	100.000	1.399
Zoom Scan																	
10/2/2025	B112WCZ-1010	897.5	BODY	RB1-2	0179-E	10MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.190	-0.170	-0.370	1.000	1.000	100.000	1.348
10/2/2025	B112WC-1011	897.5	BODY	RB1-2	0179-E	10MHz	LTE B8/106	P14 T7 B1 A1	15	35	1.240	0.000	-0.430	1.000	1.000	100.000	1.369
Applicable SAR Limit								Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware					1.6 W/kg				

Table 10.17: Measured Results – w/c spot checks 14038-1010-01 & 14038-1011-01 – PCS Face

Measured 1g SAR Results - FACE Configuration																	
Date	Plot ID	Test Frequency (MHz)	DUT Configuration					Accessories	Spacing		Measured SAR (W/kg)	SAR Drift (dB)	Delta Power (dB)	Crest Factor (n)	Fluid Sensitivity (n)	Duty Factor (%)	reported SAR (W/kg)
			Pos	Mode	DUT	BW	Mod		DUT (mm)	Antenna (mm)							
Area Scan																	
10/1/2025	F210WC-1010	710.91	FACE	RB1-1	0179-E	10MHz	LTE B12	P7 T7 --	25	65	0.037	-0.240	-0.090	1.000	1.035	100.000	0.041
10/1/2025	F210WC-1011	710.91	FACE	RB1-1	0179-E	10MHz	LTE B12	P7 T7 --	25	65	0.043	0.320	-0.240	1.000	1.035	100.000	0.047
Zoom Scan																	
10/1/2025	F210WCZ-1010	710.91	FACE	RB1-1	0179-E	10MHz	LTE B12	P7 T7 --	25	65	0.044	1.080	-0.090	1.000	1.035	100.000	0.046
10/1/2025	F210WCZ-1011	710.91	FACE	RB1-1	0179-E	10MHz	LTE B12	P7 T7 --	25	65	0.047	0.350	-0.240	1.000	1.035	100.000	0.051
Applicable SAR Limit								Use Group					Limit				
FCC CFR 2.1093			Health Canada Safety Code 6					General Population/User Unaware					1.6 W/kg				

11.0 SCALING OF MAXIMUM MEASURE SAR

Table 11.1 SAR Scaling

Scaling of Maximum Measured SAR (1g)							
Measured Parameters	Configuration						
	Body	Face	Face	Body	Body	Face	
Plot ID	B2Z	F30Z	F70Z	B340	B112Z	F210Z	
Maximum Measured SAR _M	9.840	3.670	0.148	0.002	1.400	0.048	(W/kg)
Frequency	868.9875	430.0125	5180	5745	897.5	710.91	(MHz)
Drift	Power Drift	-0.220	-0.330	0.890 (6)	0.000 (10)	-0.070	-0.150 (dB)
Conducted Power	36.000	37.990	16.520	18.310	22.630	21.760	(dBm)
DC Transmitter Duty Cycle	100.0 (3)	100.0 (4)	100.0 (7)	100.0 (11)	100.0 (14)	100.0 (16)	(%)
DF Use Duty Factor	50.0	50.0	100.0 (8)	100.0 (12)	100.0 (15)	100.0 (17)	(%)
Fluid Deviation from Target							
Δε Permittivity	-6.59%	7.64%	-8.33%	-5.67%	-8.39%	1.05%	
Δσ Conductivity	5.35%	-6.89%	0.22%	0.86%	3.90%	-2.14%	
Fluid Sensitivity Calculation (1g)				IEC/IEEE 62209-1528 7.8.2			
Delta SAR = Ce * Δε + Cσ * Δσ				(8)			
Ce = (-0.0007854*f ³) + (0.009402*f ²) - (0.02742*f) - 0.2026				(9)			
Cσ = (0.009804*f ³) - (0.08661*f ²) + (0.02981*f) + 0.7829				(10)			
f	Frequency (GHz)	0.8689875	0.4300125	5.18	5.745	0.8975	0.71091
Ce		-0.220	-0.213	-0.202	-0.199	-0.220	-0.218
Cσ		0.750	0.780	-0.024	-0.045	0.747	0.764
Ce * Δε		0.014	-0.016	0.017	0.011	0.018	-0.002
Cσ * Δσ		0.040	-0.054	0.000	0.000	0.029	-0.016
ΔSAR		0.055 (1)	-0.070	0.017 (5)	0.011 (9)	0.048 (13)	-0.019 (%)
Manufacturer's Tuneup Tolerance							
Measured Conducted Power	35.800	37.990	16.520	18.310	22.630	21.760	(dBm)
Rated Conducted Power	35.800	38.000	16.980	18.430	23.000	21.850	(dBm)
ΔP	0.000 (2)	-0.010	-0.460	-0.120	-0.370	-0.090 (19)	(dB)
Transmitter Duty Cycle [Crest Factor]							
Transmitter Duty Cycle (DC)	100.0	100.0	100.0	100.0	100.0	100.0	(%)
CF (1/DC)	1.00 (3)	1.00 (4)	1.00 (7)	1.00 (11)	1.00 (14)	1.00 (16)	
SAR Adjustment for Fluid Sensitivity							
SAR ₁ = SAR _M X [ΔSAR]	9.840 (1)	3.927	0.148 (5)	0.002 (9)	1.400 (13)	0.049	(W/kg)
SAR Adjustment for Tuneup Tolerance							
SAR ₂ = SAR ₁ + [ΔP]	9.840 (2)	3.936	0.165	0.002	1.525	0.050	(W/kg)
SAR Adjustment for Drift							
SAR ₃ = SAR ₂ + [Drift]	10.351	4.247	0.165 (6)	0.002 (10)	1.549	0.052	(W/kg)
SAR Adjustment for Transmitter Duty Cycle [Crest Factor]							
SAR ₄ = SAR ₃ x [CF]	10.351 (3)	4.247 (4)	0.165 (7)	0.002 (11)	1.549 (14)	0.052 (16)	(W/kg)
SAR Adjustment for Use Duty Factor							
SAR ₅ = SAR ₄ x [DF]	5.176	2.123	0.165 (8)	0.002 (12)	1.549 (15)	0.052 (16)	(W/kg)
reported 1g SAR							
reported SAR	5.18	2.12	0.16	0.00	1.55	0.05	(W/kg)

NOTES to Table

Scaling of the Maximum Measured SAR is based on the highest Face, Body, Extremity and/or Head SAR measured of ALL test channels, configurations and accessories used during THIS evaluation. The Measured Fluid Deviation parameters, Drift, Conducted Power, Duty Cycle [Crest] and Use Duty Factor apply only to those test frequencies and configurations producing the highest SAR. The reported SAR is the accumulation of all SAR Adjustments from the applicable steps above. The Plot ID is for identification of the SAR Measurement Plot(s) in the Annexes of this report.

NOTE: The above adjustments have been applied to ALL Measured SAR values. In some cases, the highest Measure SAR may not have produced the highest reported SAR after all adjustments have been made.

NOTE: Some of the above adjustments may not be applicable to each configuration. They are identified by grayed fields.

SAR₁

Per IEC/IEEE 62209-1528, FCC KDB 865664, ISSED RSS-102 and ISSED Notice 2012-DRS0529, SAR adjustment is applied when the calculated Δ SAR, resulting from the equations indicated, is negative (-).

Δ SAR is given as a percentage (%). The SAR is MULTIPLIED by this scaling factor only when the scaling factor is negative (-).

SAR₂

Per IEC/IEEE 62209-1528, FCC KDB 865664 and ISSED RSS-102, adjustment is required only when the difference (Δ P) between the Measured Conducted Power and the Manufacturer's Rated Conducted Power is (-) Negative.

Δ P is given in dB. The absolute value of Δ P is ADDED (logarithmically) to the SAR when Δ P is negative (-).

SAR₃

Per IEC/IEEE 62209-1528, FCC KDB 865664 and ISSED RSS-102, adjustment is required only when Measured Drift is negative (-). The absolute value of Measured Drift is ADDED (logarithmically) to the SAR.

Drift is given in dB. The absolute value of Drift is ADDED (logarithmically) to the SAR when Drift is negative (-).

SAR₄

Per IEC/IEEE 62209-1528, FCC KDB 865664 and ISSED RSS-102, when the transmit Duty Cycle (DC) is less than 100%, the reported SAR must be scaled to 100% by the Crest Factor (CF). $CF = 1/DC$ where DC is in decimal.

CF is given as a decimal. The SAR is MULTIPLIED by this scaling factor only when the scaling factor is greater than 1.

SAR₅

Use Duty Factor applies to Push-To-Talk (PTT) transceivers or other devices whereby the user has some control of the transmitter on-off period. Per IEC/IEEE 62209-1528, FCC KDB 447498, FCC KDB 643646 and ISSED RSS-102, a Duty Factor (DF) of 50% may be applied. In cases where Voice Activated transmit is employed, a DF of 75% may be applied.

DF is given as a percentage (%). The SAR is MULTIPLIED by this scaling factor only when the scaling factor is less than 100%.

reported SAR

The reported SAR is the Maximum SAR after all applicable adjustments have been made and is indicated on the cover page of this report.

Note (1): Delta SAR is Positive, SAR Adjustment for Fluid Sensitivity is not Required, in accordance with ISSED Notice 2012-DRS0529

Note (2): SAR was Evaluated at the Maximum Tuneup Tolerance. SAR Adjustment is not Required.

Note (3): Crest Factor = 1 (100% Duty Cycle), Crest Factor Adjustment not Required.

Note (4): Crest Factor = 1 (100% Duty Cycle), Crest Factor Adjustment not Required.

Note (5): Delta SAR is Positive, SAR Adjustment for Fluid Sensitivity is not Required, in accordance with ISSED Notice 2012-DRS0529

Note (6): Power Drift is Positive, Drift Adjustment not Required.

Note (7): Crest Factor = 1 (100% Duty Cycle), Crest Factor Adjustment not Required.

Note (8): Use Duty Factor is 100%. No Duty Factor Correction applied.

Note (9): Delta SAR is Positive, SAR Adjustment for Fluid Sensitivity is not Required, in accordance with ISSED Notice 2012-DRS0529

Note (10): Power Drift is Positive, Drift Adjustment not Required.

Note (11): Crest Factor = 1 (100% Duty Cycle), Crest Factor Adjustment not Required.

Note (12): Use Duty Factor is 100%. No Duty Factor Correction applied.

Note (13): Delta SAR is Positive, SAR Adjustment for Fluid Sensitivity is not Required, in accordance with ISSED Notice 2012-DRS0529

Note (14): Crest Factor = 1 (100% Duty Cycle), Crest Factor Adjustment not Required.

Note (15): Use Duty Factor is 100%. No Duty Factor Correction applied.

Note (16): Crest Factor = 1 (100% Duty Cycle), Crest Factor Adjustment not Required.

Note (17): Use Duty Factor is 100%. No Duty Factor Correction applied.

Note (18): Delta SAR is Positive, SAR Adjustment for Fluid Sensitivity is not Required, in accordance with ISSED Notice 2012-DRS0529

Simultaneous Transmission Analysis

Introduction

The XL-200P incorporates a WiFi/Bluetooth transceiver and pre-certified LTE transceiver module, all capable of simultaneously transmission in any combination with the LMR transmitter. The 2.4GHz WiFi/BT transceiver is not capable of simultaneous transmission with the 5GHz UNII transceiver. As per FCC KDB 447498 and RSS-102, simultaneous transmission analysis is required for devices capable of simultaneous transmission. The WiFi/BT and LTE 1g SAR are subject to General Population limits of 1.6W/kg. The LMR 1g SAR is subject to Occupational limits of 8.0W/kg. To determine compliance when different SAR limits are applied to the different transmit modes, the Sum-of-the-Ratios of the SAR to the respective SAR limit are applied. When the Sum-of-the-Ratios is ≤ 1.0 , simultaneous SAR test exclusion may be applied.

SAR for each transmission band, transmission mode and/or equipment class was evaluated with Body-Worn and Audio Accessories in the BODY and FACE configurations. Only the Maximum reported SAR for each band and equipment class is used in the Sum-of-the-Ratios calculation and the worst case of all possible combinations is considered.

Table 11.3 List of Possible Simultaneous Transmitter Combinations

Simultaneous Transmitter Combinations				
Worst Case FACE and BODY Configuration				
Transmitter Type				
TNF	DSS	DTS	U-NII	PCS
X	X			X
X		X		X
X			X	X

Table 11.4 Sum of the Ratios Analysis

Analysis of Sum-of-the-Ratios LMR, 802.x, LTE For All Simultaneous Transmitters Configurations																		
Config.	Transmitter Type															Sum of Ratios	Sum of SARs (W/kg)	Sum Limit (W/kg)
	LMR (TNF)			BlueTooth (DSS)			WiFi 2.4 (DTS)			WiFi 5 (U-NII)			LTE (PCS)					
	Standalone SAR (W/kg)	Limit (W/kg)	Ratio to Limit	Standalone SAR (W/kg)	Limit (W/kg)	Ratio to Limit	Standalone SAR (W/kg)	Limit (W/kg)	Ratio to Limit	Standalone SAR (W/kg)	Limit (W/kg)	Ratio to Limit	Standalone SAR (W/kg)	Limit (W/kg)	Ratio to Limit			
FACE	2.123	8.000	0.265	0.016	1.600	0.010							0.007	1.600	0.004	0.280	2.146	8.0
	2.123	8.000	0.265				0.016	1.600	0.010				0.007	1.600	0.004	0.280	2.146	
	2.123	8.000	0.265							0.165	1.600	0.103	0.007	1.600	0.004	0.373	2.295	
BODY	5.176	8.000	0.647	0.000	1.600	0.000							1.549	1.600	0.968	1.615	6.725	
	5.176	8.000	0.647				0.000	1.600	0.000				1.549	1.600	0.968	1.615	6.725	
	5.176	8.000	0.647							0.002	1.600	0.001	1.549	1.600	0.968	1.616	6.727	

Since the sum of the ratios exceeds 1.0 in the Body configuration, simultaneous transmission SAR is considered and the highest SAR resulting from the sum of the SARs is the reported Simultaneous SAR.

12.0 SAR EXPOSURE LIMITS

Table 12.1 Exposure Limits

SAR RF EXPOSURE LIMITS			
FCC 47 CFR§2.1093	Health Canada Safety Code 6	General Population / Uncontrolled Exposure ⁽⁴⁾	Occupational / Controlled Exposure ⁽⁵⁾
Spatial Average⁽¹⁾ (averaged over the whole body)		0.08 W/kg	0.4 W/kg
Spatial Peak⁽²⁾ (Head and Trunk averaged over any 1 g of tissue)		1.6 W/kg	8.0 W/kg
Spatial Peak⁽³⁾ (Hands/Wrists/Feet/Ankles averaged over 10 g)		4.0 W/kg	20.0 W/kg
(1) The Spatial Average value of the SAR averaged over the whole body.			
(2) The Spatial Peak value of the SAR averaged over any 1 gram of tissue, defined as a tissue volume in the shape of a cube and over the appropriate averaging time.			
(3) The Spatial Peak value of the SAR averaged over any 10 grams of tissue, defined as a tissue volume in the shape of a cube and over the appropriate averaging time.			
(4) Uncontrolled environments are defined as locations where there is potential exposure to individuals who have no knowledge or control of their potential exposure.			
(5) Controlled environments are defined as locations where there is potential exposure to individuals who have knowledge of their potential exposure and can exercise control over their exposure.			

13.0 DETAILS OF SAR EVALUATION

Table 13.1 Day Log Feb 10, 2025 – Jun 11, 2025

Feb 10 2025	23.5	22.4	18%	103.6	X	X	X	835 MHz Fluid, SPC, SAR Testing
Feb 11 2025	23.9	22.6	17%	103.2			X	835 MHz SAR Testing
Feb 12 2025	26.5	23.5	14%	102.5	X		X	835 MHz Fluid, SAR Testing
Feb 14 2025	25.5	23.0	16%	101.7			X	835 MHz SAR Testing
Mar 12 2025	23.8	22.9	31%	100.0	X	X	X	835 MHz Fluid, SPC, SAR Testing
Mar 13 2025	23.2	22.3	28%	99.5			X	835 MHz SAR Testing
Mar 17 2025	23.2	22.3	26%	101.1	X	X	X	450 MHz Fluid, SPC, SAR Testing
Mar 18 2025	22.5	22.1	24%	102.3			X	450 MHz SAR Testing
Mar 25 2025	24.2	22.1	29%	102.2	X			2450 MHz Fluid, SPC
Mar 26 2025	24.4	22.3	31%	102.2		X	X	2450 MHz SPC, SAR Testing
Mar 27 2025	22.3	22.1	35%	100.3			X	2450 MHz SAR Testing
Mar 28 2025	22.5	22.5	32%	100.4			X	2450 MHz SAR Testing
Apr 2 2025	23.0	22.8	30%	100.5	X	X	X	5250 MHz Fluid, SPC
Apr 3 2025	22.5	22.7	28%	101.9			X	5250 MHz SAR Testing
Apr 4 2025	25.7	23.1	25%	102.9	X	X	X	5750 MHz Fluid, SPC, SAR Testing
Apr 11 2025	24.9	23.0	28%	102.2	X	X	X	150 MHz Fluid, SPC, SAR Testing
Apr 15 2025	25.9	22.8	28%	101.3	X	X	X	835 MHz Fluid, SPC, SAR Testing
Apr 16 2025	26.0	23.0	24%	101.8			X	835 MHz SAR Testing
Apr 17 2025	25.9	22.9	26%	101.5			X	835 MHz SAR Testing
Apr 22 2025	25.6	22.1	25%	101.9	X	X	X	2600 MHz Fluid, SPC, SAR Testing
Apr 25 2025	25.4	22.9	26%	101.5	X	X	X	2300 MHz Fluid, SPC, SAR Testing
Apr 29 2025	24.5	22.3	28%	101.5	X	X	X	1900 MHz Fluid, SPC, SAR Testing
Apr 30 2025	24.7	22.5	29%	101.8			X	1900 MHz SAR Testing
Apr 30 2025	24.8	23.5	28%	101.9	X	X		1800 MHz Fluid, SPC, SAR Testing
May 1 2025	23.9	23.5	30%	101.5			X	1800 MHz SAR Testing
May 24 2025	25.9	24.3	26%	101.4	X	X	X	3700 MHz Fluid, SPC, SAR Testing
May 26 2025	25.6	23.8	40%	101.3	X	X	X	835 MHz Fluid, SPC, SAR Testing
May 27 2025	24.1	23.5	35%	102.3			X	835 MHz SAR Testing
May 28 2025	25.1	23.6	35%	101.4	X		X	835 MHz SAR Testing
May 29 2025	25.5	24.1	37%	101.5			X	835 MHz SAR Testing
May 29 2025	23.6	24.5	38%	101.4	X	X	X	750 MHz Fluid, SPC, SAR Testing
May 30 2025	23.3	24.1	34%	102.3			X	750 MHz Fluid, SPC, SAR Testing
Jun 2 2025	23.4	23.3	37%	102.3	X	X	X	450 MHz Fluid, SPC, SAR Testing
Jun 3 2025	23.5	23.1	35%	102.0			X	450 MHz SAR Testing
Jun 5 2025	23.7	23.9	35%	101.8	X	X		835 MHz Fluid, SPC
Jun 6 2025	23.6	23.5	32%	101.3			X	835 MHz SAR Testing
Jun 6 2025	23.7	23.6	32%	101.3	X	X	X	450 MHz SAR Testing
Jun 7 2025	23.1	23.0	39%	101.8	X	X	X	150 MHz Fluid, SPC, SAR Testing
Jun 9 2025	23.5	23.2	37%	101.5	X	X	X	5250 MHz Fluid, SPC, SAR Testing
Jun 9 2025	23.5	23.2	37%	101.5	X	X	X	5750 MHz Fluid, SPC, SAR Testing
Jun 10 2025	24.0	22.9	37%	101.2	X	X	X	2600 MHz Fluid, SPC, SAR Testing
Jun 10 2025	24.8	23.6	33%	100.8	X	X		2450 MHz Fluid, SPC
Jun 11 2025	23.8	23.5	31%	101.0			X	2450 MHz SAR Testing

Table 13.2 Day Log Sep 29-Oct 2, 2025

DAY LOG					Fluid Dielectric	SPC	Test	Task
Date	Ambient Temp (°C)	Fluid Temp (°C)	Relative Humidity (%)	Barometric Pressure (kPa)				
Sep 29- 2025	23.0	22.9	42%	100.6	X	X		835MHZ
Sep 30 2025	23.5	23.0	39%	100.8			X	835MHZ
Oct 1 2025	24.0	22.9	34%	101.1	X	X	X	750MHZ
Oct 1 2025	24.0	22.9	34%	101.1			X	835MHZ
Oct 2 2025	24.3	23.0	35%	101.8			X	835MHZ
Oct 2 2025	24.0	23.0	35%	101.7			X	450MHZ

13.2 DUT Setup and Configuration

DUT Setup and Configuration	
Overview	The XL-200P was evaluated for <i>Body</i> and <i>Face</i> SAR at the maximum conducted output power level, preset by the manufacturer, with a fully charged battery in unmodulated continuous transmit operation (at 100% duty cycle) with the transmit key continuously depressed for LMR mode. For a Push-To-Talk (PTT) device with a manually operated transmit pushbutton, a 50% duty cycle compensation for the <u>reported SAR</u> was used, as per FCC KDB 447498 (6.1). For the digital signals WiFi, BT and LTE, the device is set-up using firmware commands at 100% duty cycle.

13.3 DUT Positioning

DUT Positioning	
Positioning	The DUT Positioner was securely fastened to the Phantom Platform. Registration marks were placed on the DUT and the Positioner to ensure consistent positioning of the DUT for each test evaluation.
FACE Configuration	The DUT was securely clamped into the device holder with the surface of the DUT normally held to the user's face facing the phantom. The device holder was adjusted to ensure that the horizontal axis of the DUT was parallel to the bottom of the phantom. A 25mm spacer block was used to set the separation distance between the DUT and the phantom to 25mm. When applicable and unless by design, the antenna of the DUT was prevented from sagging away from the phantom. The spacer block was removed before testing.
BODY Configuration	Body-Worn and Audio Accessories were affixed to the DUT in the manner in which they are intended to be used. The DUT, with its accessories, were securely clamped into the device holder with the surface of the DUT normally in contact with the body in direct contact with the bottom of the phantom, or 0mm separation from the DUT's accessory to the phantom. Body-Worn Accessory straps, linkages, etc. were positioned in a fashion resembling that for which they were intended to be used. Audio Accessory cables, etc., were positioned in a fashion resembling that for which they were intended to be used.
HEAD Configuration	This device is not intended to be held to the ear and was not tested in the HEAD configuration.

13.4 General Procedures and Report

General Procedures and Reporting	
General Procedures	The fluid dielectric parameters of the Active Tissue Simulating Liquid (TSL) were measured as described in this Section, recorded and entered into the DASY Measurement Server. Active meaning the TSL used during the SAR evaluation of the DUT. The temperature of the Active TSL was measured and recorded prior to performing a System Performance Check (SPC). An SPC was performed with the Active TSL prior to the start of the test series. The temperature of the Active TSL was measured throughout the day and the Active TSL temperature was maintained to $\pm 0.5^{\circ}\text{C}$. The Active TSL temperature was maintained to within $\pm 2.0^{\circ}\text{C}$ throughout the test series. The liquid parameters shall be measured within 24 hours before the start of a test series and if it takes longer than 48 hours, the liquid parameters shall also be measured at the end of the test series. An Area Scan exceeding the length and width of the DUT projection was performed and the locations of all maximas within 2dB of the Peak SAR recorded. A Zoom Scan centered over the Peak SAR location(s) was performed and the 1g and 10g SAR values recorded. The resolutions of the Area Scan and Zoom Scan are described in the Scan Resolution table(s) in this Section. A Power Reference Measurement was taken at the phantom reference point immediately prior to the Area Scan. A Power Drift measurement was taken at the phantom reference point immediately following the Zoom Scan to determine the power drift. A Z-Scan from the <u>Maximum Distance to Phantom Surface</u> to the fluid surface was performed following the power drift measurement.
Reporting	The 1g SAR, 10g SAR and power drift measurements are recorded in the SAR Measurement Summary tables in the SAR Measurement Summary Section of this report. The SAR values shown in the 100% DC (Duty Cycle) column are the SAR values reported by the SAR Measurement Server with the DUT operating at 100% transmit duty cycle. These tables also include other information such as transmit channel and frequency, modulation, accessories tested and DUT-phantom separation distance. In the Scaling of Maximum Measured SAR Section of this report, the highest measured SAR in the BODY configuration, within the entire scope of this assessment, are, when applicable, scaled for Fluid Sensitivity, Manufacturer's Tune-Up Tolerance, Simultaneous Transmission and Drift. With the exception of Duty Cycle correction/compensation, SAR values are <u>ONLY</u> scaled up, not down. The final results of this scaling is the <u>reported SAR</u> which appears on the Cover Page of this report.

13.5 Fluid Dielectric and Systems Performance Check

Fluid Dielectric and Systems Performance Check	
Fluid Dielectric Measurement Procedure	The fluid dielectric parameters of the Tissue Simulating Liquid (TSL) are measured using the Open-Ended Coax Method connected to an Agilent 8753ET Network Analyzer connected to a measurement server running April Dielectric Property Measurement System. A frequency range of $\pm 100\text{MHz}$ for frequencies $> 300\text{MHz}$ and $\pm 50\text{MHz}$ for frequencies $\leq 300\text{MHz}$ with frequency step size of 10MHz is used. The center frequency is centered around the SAR measurement probe's calibration point for that TSL frequency range. A calibration of the setup is performed using a short-open-deionized water (at 23°C in a 300ml beaker) method. A sample of the TSL is placed in a 300ml beaker and the open-ended coax is submerged approximately 8mm below the fluid surface in the approximate center of the beaker. A check of the setup is made to ensure no air is trapped under the open-ended coax. The sample of TSL is measured and compared to the IEC/IEEE 62209-1528 targets for HEAD or BODY for the entire fluid measurement range. Fluid adjustment are made if the dielectric parameters are $> 5\%$ in range that the DUT is to be tested. If the adjustments fail to bring the parameters to $\leq 5\%$ but are $< 10\%$, the SAR Fluid Sensitivity as per IEC/IEEE 62209-1528 and FCC KDB 865664 are applied to the highest measured SAR. A TSL with dielectric parameters $> 10\%$ in the DUT test frequency range are not used.
Systems Performance Check	The fluid dielectric parameters of the Active TSL are entered into the DASY Measurement Server at each of the 10MHz step size intervals. Active meaning the TSL used during the SAR evaluation of the DUT. The DASY Measurement System will automatically interpolate the dielectric parameters for DUT test frequencies that fall between the 10MHz step intervals. A Systems Performance Check (SPC) is performed in accordance with IEC/IEEE 62209-1528 "System Check" and FCC KDB 865664 "System Verification". A validation source, dipole or Confined Loop Antenna (CLA), is placed under the geometric center of the phantom and separated from the phantom in accordance to the validation source's Calibration Certificate data. A CW signal set to the frequency of the validate source's and SAR measurement probe's calibration frequency with a forward power set to the validation source's Calibration Certificate data power setting is applied to the validation source. An Area Scan is centered over the projection of the validation source's feed point and an Area Scan is taken. A Zoom Scan centered over the Peak SAR measurement of the Area Scan and the 1g and 10g SAR is measured. The measured 1g and 10g SAR is compared to the 1g and 10g SAR measurements from the validation source's Calibration Certificate. When required, the measured SAR is normalized to 1.0W and compared to the normalized SAR indicated on the validation source's Calibration Certificate. The SPC is considered valid when the measured and normalized SAR is $\leq 10\%$ of the measured and normalize SAR of the validation source's Calibration Certificate. The fluid dielectric parameters of the Active TSL and SPC are repeated when the Active TSL has been in use for greater than 84 hours or if the Active TSL temperature has exceed $\pm 1^{\circ}\text{C}$ of the initial fluid analysis.

13.6 Scan Resolution 100MHz to 2GHz

Scan Resolution 100MHz to 2GHz	
Maximum distance from the closest measurement point to phantom surface: (Geometric Center of Probe Center)	$4 \pm 1 \text{ mm}$
Maximum probe angle normal to phantom surface. (Flat Section ELI Phantom)	$5^{\circ} \pm 1^{\circ}$
Area Scan Spatial Resolution $\Delta X, \Delta Y$	15 mm
Zoom Scan Spatial Resolution $\Delta X, \Delta Y$	7.5 mm
Zoom Scan Spatial Resolution ΔZ (Uniform Grid)	5 mm
Zoom Scan Volume X, Y, Z	30 mm
Phantom	ELI
Fluid Depth	$150 \pm 5 \text{ mm}$
An Area Scan with an area extending beyond the device was used to locate the candidate maximas within 2dB of the global maxima.	
A Zoom Scan centered over the peak SAR location(s) determined by the Area Scan was used to determine the 1-gram and 10-gram peak spatial-average SAR	

13.7 Scan Resolution 2GHz to 3GHz

Scan Resolution 2GHz to 3GHz	
Maximum distance from the closest measurement point to phantom surface: (Geometric Center of Probe Center)	4 ± 1 mm
Maximum probe angle normal to phantom surface. (Flat Section ELI Phantom)	5° ± 1°
Area Scan Spatial Resolution $\Delta X, \Delta Y$	12 mm
Zoom Scan Spatial Resolution $\Delta X, \Delta Y$	5 mm
Zoom Scan Spatial Resolution ΔZ (Uniform Grid)	5 mm
Zoom Scan Volume X, Y, Z	30 mm
Phantom	ELI
Fluid Depth	150 ± 5 mm
An Area Scan with an area extending beyond the device was used to locate the candidate maximas within 2dB of the global maxima.	
A Zoom Scan centered over the peak SAR location(s) determined by the Area Scan was used to determine the 1-gram and 10-gram peak spatial-average SAR	

13.8 Scan Resolution 5GHz to 6GHz

Scan Resolution 5GHz to 6GHz	
Maximum distance from the closest measurement point to phantom surface: (Geometric Center of Probe Center)	4 ± 1 mm
Maximum probe angle normal to phantom surface. (Flat Section ELI Phantom)	5° ± 1°
Area Scan Spatial Resolution $\Delta X, \Delta Y$	10 mm
Zoom Scan Spatial Resolution $\Delta X, \Delta Y$	4 mm
Zoom Scan Spatial Resolution ΔZ (Uniform Grid)	2 mm
Zoom Scan Volume X, Y, Z	22 mm
Phantom	ELI
Fluid Depth	100 ± 5 mm
An Area Scan with an area extending beyond the device was used to locate the candidate maximas within 2dB of the global maxima.	
A Zoom Scan centered over the peak SAR location(s) determined by the Area Scan was used to determine the 1-gram and 10-gram peak spatial-average SAR	

14.0 MEASUREMENT UNCERTAINTIES

Table 14.1 Measurement Uncertainty Different tables for different 4 – 300MHz

Uncertainty Budget for Device Evaluation (IEC/IEEE 62209-1528 Table 9) - 4MHz to 300MHz									
Symbol	Input quantity Xi (source of uncertainty)	Ref.	Prob. Dist PDF	Unc. a(xi)	Div. a qi	u(xi) = a(xi)/qi	ci	u(y) = ci·u(xi)	vi or veff
Measurement System Errors									
CF ⁽¹⁾	Probe calibration	8.4.1.1	N (k = 2)	± 13.3 %	2	6.65	1	6.65	∞
CFdrift ⁽²⁾	Probe calibration drift	8.4.1.2	R	± 1.7 %	√3	0.981495	1	0.981495	∞
LIN ⁽³⁾	Probe linearity and detection limit	8.4.1.3	R	± 4.7 %	√3	2.713546	1	2.713546	∞
BBS ⁽⁴⁾	Broadband signal	8.4.1.4	R	± 0.8 %	√3	0.46188	1	0.46188	∞
ISO ⁽⁵⁾	Probe isotropy	8.4.1.5	R	± 10.7 %	√3	6.166101	1	6.166101	∞
DAE ⁽⁶⁾	Probe and data acquisition errors	8.4.1.6	N	± 0.7 %	1	0.7	1	0.7	∞
AMB ⁽⁷⁾	RF ambient and noise	8.4.1.7	N	± 1.8 %	1	1.8	1	1.8	10
Δ xyz ⁽⁸⁾	Probe positioning errors	8.4.1.8	N	± 0.6 %	1	0.6	0.14	0.084	∞
DAT ⁽⁹⁾	Data processing errors	8.4.1.9	R	± 1.2 %	√3	0.69282	1	0.69282	∞
Phantom and device (DUT or validation antenna) errors									
LIQ(σ)	Measurement of conductivity(σ)	8.4.2.1	N	± 5.0 %	1	5	1	5	10
LIQ(T c)	Temperature effects (medium)	8.4.2.2	R	± 0.4 %	√3	0.23094	1	0.23094	10
EPS ⁽¹⁰⁾	Shell permittivity	8.4.2.3	R	± 14.0 %	√3	8.082904	0	0	∞
DIS ⁽¹¹⁾	Radiating element of the DUT to phantom	8.4.2.4	N	± 2.0 %	1	2	2	4	∞
D xyz	DUT Positioning Repeatability	8.4.2.5	N	± 2.9 %	1	2.9	1	2.9	15
H	Device holder effects	8.4.2.6	N	± 1.0 %	1	1	1	1	∞
MOD ⁽¹²⁾	Mode to probe sensitivity	8.4.2.7	R	± 2.4 %	√3	1.385641	1	1.385641	∞
TAS ⁽¹³⁾	Time-average SAR	8.4.2.8	R	± 1.7 %	√3	0.981495	1	0.981495	∞
RFdrift ⁽¹⁴⁾	DUT Drift	8.4.2.9	N	± 0.0 %	1	0	1	0	∞
Corrections to the SAR result (if applied)									
C(ε',σ) ⁽¹⁵⁾	Phantom deviation from target (ε',σ)	8.4.3.1	N	± 1.9 %	1	1.9	1	1.9	∞
C(R)	SAR scaling	8.4.3.2	R	± 4.8 %	√3	2.771281	1	2.771281	∞
Effective Degrees of Freedom ⁽¹⁶⁾								v_{eff} =	373
u(ΔSAR) Combined uncertainty								12.63	
U Expanded uncertainty k=2								25.27	

(1) From Probe Calibration Certificate

(2) Reference DASY 6 Manual (5 April 2022) §6.1.2

(3) Reference DASY 6 Manual (5 April 2022) §6.1.4

(4) Frequency Dependent - Reference DASY 6 Manual (5 April 2022) §6.1.5

(5) Reference DASY 6 Manual (5 April 2022) §6.1.6, Axial: ±4.7%, Hemispherical: ±9.6%, ISO $\sqrt{0.5\mu_A^2 + 0.5\mu_H^2}$

(6) Frequency Dependent - Reference DASY 6 Manual (5 April 2022) §6.1.3, Includes Probe Readout Electronics, Boundry Effects and Sensor Of

(7) Reference DASY 6 Manual (5 April 2022) §6.1.7

(8) Reference DASY 6 Manual (5 April 2022) §6.1.8

(9) Reference DASY 6 Manual (5 April 2022) §6.1.9

(10) Reference DASY 6 Manual (5 April 2022) §6.1.12

(11) Reference DASY 6 Manual (5 April 2022) §6.1.13

(12) Reference DASY 6 Manual (5 April 2022) §6.1.16

(13) Reference DASY 6 Manual (5 April 2022) §6.1.17

(14) SAR is adjusted for all negative drift

(15) SAR is adjusted for fluid sensitivity

(16) The Effective Degrees of Freedom is > 30

All other uncertainty contributions assessed in accordance with IEC/IEEE 62209-1528

Table 14.2 Measurement Uncertainty Different tables for different 300 – 3000MHz

Uncertainty Budget for Device Evaluation (IEC/IEEE 62209-1528 Table 9) - 300MHz to 3GHz									
Symbol	Input quantity Xi (source of uncertainty)	Ref.	Prob. Dist PDFI	Unc. a(xi)	Div. a qi	u(xi) = a(xi)/qi	ci	u(y) = ci·u(xi)	vi or veff
Measurement System Errors									
CF ⁽¹⁾	Probe calibration	8.4.1.1	N (k = 2)	± 13.3 %	2	6.65	1	6.65	∞
CFdrift ⁽²⁾	Probe calibration drift	8.4.1.2	R	± 1.7 %	√3	0.981495	1	0.981495	∞
LIN ⁽³⁾	Probe linearity and detection limit	8.4.1.3	R	± 4.7 %	√3	2.713546	1	2.713546	∞
BBS ⁽⁴⁾	Broadband signal	8.4.1.4	R	± 2.0 %	√3	1.154701	1	1.154701	∞
ISO ⁽⁵⁾	Probe isotropy	8.4.1.5	R	± 10.7 %	√3	6.166101	1	6.166101	∞
DAE ⁽⁶⁾	Probe and data acquisition errors	8.4.1.6	N	± 1.2 %	1	1.24	1	1.24	∞
AMB ⁽⁷⁾	RF ambient and noise	8.4.1.7	N	± 1.8 %	1	1.8	1	1.8	10
Δ xyz ⁽⁸⁾	Probe positioning errors	8.4.1.8	N	± 0.6 %	1	0.6	0.14	0.084	∞
DAT ⁽⁹⁾	Data processing errors	8.4.1.9	R	± 2.0 %	√3	1.154701	1	1.154701	∞
Phantom and device (DUT or validation antenna) errors									
LIQ(σ)	Measurement of conductivity(σ)	8.4.2.1	N	± 5.0 %	1	5	1	5	10
LIQ(T c)	Temperature effects (medium)	8.4.2.2	R	± 0.4 %	√3	0.23094	1	0.23094	10
EPS ⁽¹⁰⁾	Shell permittivity	8.4.2.3	R	± 14.0 %	√3	8.082904	0	0	∞
DIS ⁽¹¹⁾	Radiating element of the DUT to phantom	8.4.2.4	N	± 2.0 %	1	2	2	4	∞
D xyz	DUT Positioning Repeatability	8.4.2.5	N	± 2.9 %	1	2.9	1	2.9	15
H	Device holder effects	8.4.2.6	N	± 1.0 %	1	1	1	1	∞
MOD ⁽¹²⁾	Mode to probe sensitivity	8.4.2.7	R	± 2.4 %	√3	1.385641	1	1.385641	∞
TAS ⁽¹³⁾	Time-average SAR	8.4.2.8	R	± 1.0 %	√3	0.57735	1	0.57735	∞
RFdrift ⁽¹⁴⁾	DUT Drift	8.4.2.9	N	± 0.0 %	1	0	1	0	
Corrections to the SAR result (if applied)									
C(ε',σ) ⁽¹⁵⁾	Phantom deviation from target (ε',σ)	8.4.3.1	N	± 1.9 %	1	1.9	1	1.9	
C(R)	SAR scaling	8.4.3.2	R	± 4.8 %	√3	2.771281	1	2.771281	
Effective Degrees of Freedom ⁽¹⁶⁾							v_{eff} =		385
u(ΔSAR) Combined uncertainty							12.73		
U Expanded uncertainty k=2							25.46		

(1) From Probe Calibration Certificate

(2) Reference DASY 6 Manual (5 April 2022) §6.1.2

(3) Reference DASY 6 Manual (5 April 2022) §6.1.4

(4) Frequency Dependent - Reference DASY 6 Manual (5 April 2022) §6.1.5

(5) Reference DASY 6 Manual (5 April 2022) §6.1.6, Axial: ±4.7%, Hemispherical: ±9.6%, ISO $\sqrt{0.5\mu_A^2 + 0.5\mu_H^2}$

(6) Frequency Dependent - Reference DASY 6 Manual (5 April 2022) §6.1.3, Includes Probe Readout Electronics, Boundary Effects and Sensor Of

(7) Reference DASY 6 Manual (5 April 2022) §6.1.7

(8) Reference DASY 6 Manual (5 April 2022) §6.1.8

(9) Reference DASY 6 Manual (5 April 2022) §6.1.9

(10) Reference DASY 6 Manual (5 April 2022) §6.1.12

(11) Reference DASY 6 Manual (5 April 2022) §6.1.13

(12) Reference DASY 6 Manual (5 April 2022) §6.1.16

(13) Reference DASY 6 Manual (5 April 2022) §6.1.17

(14) SAR is adjusted for all negative drift

(15) SAR is adjusted for fluid sensitivity

(16) The Effective Degrees of Freedom is > 30

All other uncertainty contributions assessed in accordance with IEC/IEEE 62209-1528

Table 14.3 Measurement Uncertainty Different tables for different 3 – 6GHz

Uncertainty Budget for Device Evaluation (IEC/IEEE 62209-1528 Table 9) - 3GHz to 6GHz									
Symbol	Input quantity Xi (source of uncertainty)	Ref.	Prob. Dist PDFI	Unc. a(xi)	Div. a qi	u(xi) = a(xi)/qi	ci	u(y) = ci·u(xi)	vi or veff
Measurement System Errors									
CF ⁽¹⁾	Probe calibration	8.4.1.1	N (k = 2)	± 14.0 %	2	7	1	7	∞
CFdrift ⁽²⁾	Probe calibration drift	8.4.1.2	R	± 1.7 %	√3	0.981495	1	0.981495	∞
LIN ⁽³⁾	Probe linearity and detection limit	8.4.1.3	R	± 4.7 %	√3	2.713546	1	2.713546	∞
BBS ⁽⁴⁾	Broadband signal	8.4.1.4	R	± 2.6 %	√3	1.501111	1	1.501111	∞
ISO ⁽⁵⁾	Probe isotropy	8.4.1.5	R	± 10.7 %	√3	6.166101	1	6.166101	∞
DAE ⁽⁶⁾	Probe and data acquisition errors	8.4.1.6	N	± 1.2 %	1	1.24	1	1.24	∞
AMB ⁽⁷⁾	RF ambient and noise	8.4.1.7	N	± 1.8 %	1	1.8	1	1.8	10
Δ xyz ⁽⁸⁾	Probe positioning errors	8.4.1.8	N	± 0.6 %	1	0.6	0.14	0.084	∞
DAT ⁽⁹⁾	Data processing errors	8.4.1.9	R	± 2.3 %	√3	1.327906	1	1.327906	∞
Phantom and device (DUT or validation antenna) errors									
LIQ(σ)	Measurement of conductivity(σ)	8.4.2.1	N	± 5.0 %	1	5	1	5	10
LIQ(T c)	Temperature effects (medium)	8.4.2.2	R	± 0.4 %	√3	0.23094	1	0.23094	10
EPS ⁽¹⁰⁾	Shell permittivity	8.4.2.3	R	± 14.0 %	√3	8.082904	0	0	∞
DIS ⁽¹¹⁾	Radiating element of the DUT to phantom	8.4.2.4	N	± 2.0 %	1	2	2	4	∞
D xyz	DUT Positioning Repeatability	8.4.2.5	N	± 2.9 %	1	2.9	1	2.9	15
H	Device holder effects	8.4.2.6	N	± 1.0 %	1	1	1	1	∞
MOD ⁽¹²⁾	Mode to probe sensitivity	8.4.2.7	R	± 2.4 %	√3	1.385641	1	1.385641	∞
TAS ⁽¹³⁾	Time-average SAR	8.4.2.8	R	± 1.7 %	√3	0.981495	1	0.981495	∞
RFdrift ⁽¹⁴⁾	DUT Drift	8.4.2.9	N	± 0.0 %	1	0	1	0	
Corrections to the SAR result (if applied)									
C(ε',σ) ⁽¹⁵⁾	Phantom deviation from target (ε',σ)	8.4.3.1	N	± 1.9 %	1	1.9	1	1.9	
C(R)	SAR scaling	8.4.3.2	R	± 4.8 %	√3	2.771281	1	2.771281	
Effective Degrees of Freedom ⁽¹⁶⁾							v_{eff} =		417
u(ΔSAR) Combined uncertainty							12.99		
U Expanded uncertainty k=2							25.98		

(1) From Probe Calibration Certificate

(2) Reference DASY 6 Manual (5 April 2022) §6.1.2

(3) Reference DASY 6 Manual (5 April 2022) §6.1.4

(4) Frequency Dependent - Reference DASY 6 Manual (5 April 2022) §6.1.5

(5) Reference DASY 6 Manual (5 April 2022) §6.1.6, Axial: ±4.7%, Hemispherical: ±9.6%, ISO $\sqrt{0.5\mu_A^2 + 0.5\mu_H^2}$

(6) Frequency Dependent - Reference DASY 6 Manual (5 April 2022) §6.1.3, Includes Probe Readout Electronics, Boundary Effects and Sensor Of

(7) Reference DASY 6 Manual (5 April 2022) §6.1.7

(8) Reference DASY 6 Manual (5 April 2022) §6.1.8

(9) Reference DASY 6 Manual (5 April 2022) §6.1.9

(10) Reference DASY 6 Manual (5 April 2022) §6.1.12

(11) Reference DASY 6 Manual (5 April 2022) §6.1.13

(12) Reference DASY 6 Manual (5 April 2022) §6.1.16

(13) Reference DASY 6 Manual (5 April 2022) §6.1.17

(14) SAR is adjusted for all negative drift

(15) SAR is adjusted for fluid sensitivity

(16) The Effective Degrees of Freedom is > 30

All other uncertainty contributions assessed in accordance with IEC/IEEE 62209-1528

Table 14.4 Calculation of Degrees of Freedom

Calculation of the Degrees and Effective Degrees of Freedom	
$v_i = n - 1$	$v_{\text{eff}} = \frac{u_c^4}{m \sum_{i=1} \frac{c_i^4 u_i^4}{v_i}}$

15.0 FLUID DIELECTRIC PARAMETERS

Table 15.1 Fluid Dielectric Parameters 835MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	10-Feb-2025	Fluid Temp:	22.6	Frequency:	835MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
835.0000		39.8700	0.9700	41.5000	0.90	-3.93%	7.78%			0.067	0.052
865.0000		39.5500	1.0000	41.5000	0.93	-4.70%	7.53%	0.067	0.051	1.000	1.000
868.9875	*	39.4862	0.9960	41.5000	0.93	-4.85%	6.64%	0.060	0.046	1.000	1.000
875.0000		39.3900	0.9900	41.5000	0.94	-5.08%	5.32%	0.051	0.039	1.000	1.000

*Channel Frequency Tested

Table 15.2 Fluid Dielectric Parameters 835MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2				
Date:	12-Feb-2025	Fluid Temp:	23.5	Frequency:	835MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction		
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			Factor (1)		
765.0000			39.4500	0.8700	41.8600	0.89	-5.76%	-2.25%	-0.004	-0.005	1.004	1.005
768.0125		*	39.4801	0.8730	41.8449	0.89	-5.65%	-2.24%	-0.005	-0.005	1.005	1.005
769.0125		*	39.4901	0.8740	41.8399	0.89	-5.62%	-2.24%	-0.005	-0.005	1.005	1.005
771.0125		*	39.5101	0.8760	41.8299	0.90	-5.55%	-2.23%	-0.005	-0.006	1.005	1.006
775.0000			39.5500	0.8800	41.8100	0.90	-5.41%	-2.22%	-0.005	-0.006	1.005	1.006
775.0125		*	39.5493	0.8800	41.8099	0.90	-5.41%	-2.22%	-0.005	-0.006	1.005	1.006
785.0000			39.0200	0.9100	41.7600	0.90	-6.56%	1.11%	0.023	0.016	1.000	1.000
805.0000			39.9700	0.9400	41.6600	0.90	-4.06%	4.44%	0.042	0.033	1.000	1.000
806.0125		*	39.9417	0.9400	41.6539	0.90	-4.11%	4.44%	0.043	0.033	1.000	1.000
825.0000			39.8800	0.9300	41.5500	0.90	-4.02%	3.33%	0.034	0.026	1.000	1.000
835.0000			39.8500	0.9600	41.5000	0.90	-3.98%	6.67%	0.059	0.046	1.000	1.000
845.0000			39.8200	0.9800	41.5000	0.91	-4.05%	7.69%	0.067	0.052	1.000	1.000
851.0125		*	39.7298	0.9740	41.5000	0.92	-4.27%	6.33%	0.057	0.044	1.000	1.000
855.0000			39.6700	0.9700	41.5000	0.92	-4.41%	5.43%	0.051	0.039	1.000	1.000
860.0000		*	39.5650	0.9850	41.5000	0.93	-4.66%	6.49%	0.059	0.045	1.000	1.000
865.0000			39.4600	1.0000	41.5000	0.93	-4.92%	7.53%	0.067	0.052	1.000	1.000
868.9875		*	39.4161	1.0040	41.5000	0.93	-5.02%	7.49%	0.067	0.052	1.000	1.000
875.0000			39.3500	1.0100	41.5000	0.94	-5.18%	7.45%	0.067	0.051	1.000	1.000

*Channel Frequency Tested

Table 15.3 Fluid Dielectric Parameters 835MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2				
Date:	12-Mar-2025	Fluid Temp:	22.9	Frequency:	835MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction		
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			Factor (1)		
										1g	10g	
835.0000			40.1300	0.9700	41.5000	0.90	-3.30%	7.78%	0.066	0.051	1.000	1.000
865.0000			39.8100	1.0100	41.5000	0.93	-4.07%	8.60%	0.073	0.057	1.000	1.000
868.9875		*	39.8140	1.0060	41.5000	0.93	-4.06%	7.71%	0.067	0.051	1.000	1.000
875.0000			39.8200	1.0000	41.5000	0.94	-4.05%	6.38%	0.057	0.043	1.000	1.000

*Channel Frequency Tested

Table 15.4 Fluid Dielectric Parameters 450MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	17-Mar-2025	Fluid Temp:	22.2	Frequency:	450MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
400.0000		46.7100	0.8100	44.1000	0.87	5.92%	-6.90%	-0.066	-0.057	1.066	1.057
406.1000	*	46.4294	0.8100	44.0268	0.87	5.46%	-6.90%	-0.065	-0.056	1.065	1.056
410.0000		46.2500	0.8100	43.9800	0.87	5.16%	-6.90%	-0.065	-0.056	1.065	1.056
430.0000		45.9600	0.8300	43.7400	0.87	5.08%	-4.60%	-0.047	-0.040	1.047	1.040
430.0125	*	45.9598	0.8300	43.7399	0.87	5.08%	-4.60%	-0.047	-0.040	1.047	1.040
440.0000		45.8300	0.8400	43.6200	0.87	5.07%	-3.45%	-0.038	-0.032	1.038	1.032
450.0000		45.8300	0.8500	43.5000	0.87	4.90%	-2.30%	-0.028	-0.023	1.028	1.023
450.0125	*	45.6299	0.8500	43.4999	0.87	4.90%	-2.30%	-0.028	-0.023	1.028	1.023
460.0000		45.5200	0.8600	43.4500	0.87	4.76%	-1.15%	-0.019	-0.015	1.019	1.015

*Channel Frequency Tested

Table 15.5 Fluid Dielectric Parameters 2450MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	25-Mar-2025	Fluid Temp:	22.1	Frequency:	2450MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
2400.0000		36.6000	1.8100	39.2900	1.76	-6.85%	2.84%	0.029	0.018	1.000	1.000
2402.0000	*	36.6080	1.8120	39.2860	1.76	-6.82%	2.95%	0.030	0.019	1.000	1.000
2410.0000		36.6400	1.8200	39.2700	1.76	-6.70%	3.41%	0.032	0.020	1.000	1.000
2412.0000	*	36.6020	1.8220	39.2660	1.76	-6.78%	3.41%	0.032	0.020	1.000	1.000
2420.0000		36.4500	1.8300	39.2500	1.77	-7.13%	3.39%	0.033	0.020	1.000	1.000
2430.0000		36.3200	1.8500	39.2400	1.78	-7.44%	3.93%	0.036	0.022	1.000	1.000
2437.0000	*	36.3690	1.8500	39.2260	1.79	-7.28%	3.53%	0.033	0.021	1.000	1.000
2440.0000	*	36.3900	1.8500	39.2200	1.79	-7.22%	3.35%	0.032	0.020	1.000	1.000
2450.0000		36.4500	1.8900	39.2000	1.80	-7.02%	5.00%	0.040	0.024	1.000	1.000
2460.0000		36.3800	1.8900	39.1900	1.81	-7.17%	4.42%	0.037	0.023	1.000	1.000
2462.0000	*	36.3420	1.8960	39.1860	1.81	-7.26%	4.64%	0.038	0.023	1.000	1.000
2470.0000		36.1900	1.9200	39.1700	1.82	-7.61%	5.49%	0.043	0.026	1.000	1.000
2480.0000	*	36.2800	1.9300	39.1600	1.83	-7.35%	5.46%	0.042	0.026	1.000	1.000
2490.0000		36.3400	1.9300	39.1500	1.84	-7.18%	4.89%	0.039	0.024	1.000	1.000

*Channel Frequency Tested

Table 15.6 Fluid Dielectric Parameters 5250MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	2-Apr-2025	Fluid Temp:	22.8	Frequency:	5250MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
5170.0000		33.6100	4.5700	36.0200	4.62	-6.69%	-1.08%	0.014	0.018	1.000	1.000
5180.0000	*	33.0100	4.6400	36.0100	4.63	-8.33%	0.22%	0.017	0.021	1.000	1.000
5190.0000		32.9600	4.7900	36.0000	4.64	-8.44%	3.23%	0.016	0.020	1.000	1.000
5210.0000		34.6100	4.9300	35.9700	4.67	-3.78%	5.57%	0.006	0.007	1.000	1.000
5220.0000	*	35.9100	4.8100	35.9600	4.68	-0.14%	2.78%	0.000	-0.001	1.000	1.001
5230.0000		36.1000	4.6500	35.9500	4.69	0.42%	-0.85%	-0.001	-0.001	1.001	1.001
5240.0000	*	36.1800	4.2800	35.9400	4.70	0.67%	-8.94%	0.001	0.003	1.000	1.000
5250.0000		34.8500	4.4700	35.9300	4.71	-3.01%	-5.10%	0.008	0.010	1.000	1.000

*Channel Frequency Tested

Table 15.7 Fluid Dielectric Parameters 5750MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	4-Apr-2025	Fluid Temp:	23.1	Frequency:	5750MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
5740.0000		34.0500	5.3200	35.3700	5.21	-3.73%	2.11%	0.006	0.009	1.000	1.000
5745.0000	*	34.1000	5.2800	35.3650	5.22	-3.58%	1.25%	0.007	0.009	1.000	1.000
5750.0000		34.1500	5.2400	35.3600	5.22	-3.42%	0.38%	0.007	0.009	1.000	1.000
5780.0000		32.3200	5.1100	35.3200	5.25	-8.49%	-2.67%	0.018	0.023	1.000	1.000
5785.0000	*	32.1250	5.1600	35.3150	5.26	-9.03%	-1.81%	0.019	0.024	1.000	1.000
5790.0000		31.9300	5.2100	35.3100	5.26	-9.57%	-0.95%	0.019	0.025	1.000	1.000
5820.0000		32.3500	5.6100	35.2800	5.29	-8.30%	6.05%	0.014	0.019	1.000	1.000
5825.0000	*	32.6300	5.6200	35.2750	5.30	-7.50%	6.14%	0.012	0.017	1.000	1.000
5830.0000		32.9100	5.6300	35.2700	5.30	-6.69%	6.23%	0.011	0.015	1.000	1.000

*Channel Frequency Tested

Table 15.8 Fluid Dielectric Parameters 150MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	11-Apr-2025	Fluid Temp:	23	Frequency:	150MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
130.0000		57.1400	0.8000	53.2300	0.75	7.35%	6.67%	0.037	0.037	1.000	1.000
138.0125	*	54.8564	0.7680	52.8614	0.75	3.77%	2.39%	0.011	0.011	1.000	1.000
140.0000		54.2900	0.7600	52.7700	0.75	2.88%	1.33%	0.005	0.005	1.000	1.000
141.0125	*	53.8283	0.7600	52.7224	0.75	2.10%	1.20%	0.005	0.005	1.000	1.000
144.0125	*	52.4603	0.7600	52.5814	0.75	-0.23%	0.79%	0.007	0.006	1.000	1.000
150.0000		49.7300	0.7600	52.3000	0.76	-4.91%	0.00%	0.010	0.009	1.000	1.000

*Channel Frequency Tested

Table 15.9 Fluid Dielectric Parameters 835MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	15-Apr-2025	Fluid Temp:	22.8	Frequency:	835MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
835.0000		39.5000	0.9700	41.5000	0.90	-4.82%	7.78%	0.069	0.054	1.000	1.000
875.0000		38.8000	0.9900	41.5000	0.94	-6.51%	5.32%	0.054	0.041	1.000	1.000
885.0000	*	38.0800	0.9900	41.5000	0.95	-8.24%	4.21%	0.050	0.037	1.000	1.000
895.0000		38.0200	1.0000	41.5000	0.96	-8.39%	4.17%	0.050	0.036	1.000	1.000
897.5000	*	38.0175	1.0000	41.5000	0.96	-8.39%	3.90%	0.048	0.035	1.000	1.000
905.0000		38.0100	1.0000	41.5000	0.97	-8.41%	3.09%	0.042	0.030	1.000	1.000
910.0000	*	37.9550	1.0050	41.5000	0.98	-8.54%	3.08%	0.042	0.030	1.000	1.000
915.0000		37.9000	1.0100	41.5000	0.98	-8.67%	3.06%	0.042	0.030	1.000	1.000

Table 15.10 Fluid Dielectric Parameters 2600MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	22-Apr-2025	Fluid Temp:	22.1	Frequency:	2600MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
2500.0000		41.9100	1.9700	39.1400	1.85	7.08%	6.49%	0.015	0.005	1.000	1.000
2510.0000	*	42.0700	1.9500	39.1200	1.87	7.54%	4.28%	0.003	-0.002	1.000	1.002
2520.0000		42.0500	1.9700	39.1100	1.88	7.52%	4.79%	0.005	0.000	1.000	1.000
2530.0000		41.8800	2.0200	39.1000	1.89	7.11%	6.88%	0.016	0.005	1.000	1.000
2535.0000	*	41.8750	2.0150	39.0950	1.90	7.11%	6.33%	0.013	0.004	1.000	1.000
2540.0000		41.8700	2.0100	39.0900	1.90	7.11%	5.79%	0.011	0.002	1.000	1.000
2550.0000		41.9600	2.0300	39.0700	1.91	7.40%	6.28%	0.012	0.003	1.000	1.000
2560.0000	*	42.0500	2.0500	39.0600	1.92	7.65%	6.77%	0.014	0.004	1.000	1.000

*Channel Frequency Tested

Table 15.11 Fluid Dielectric Parameters 2300MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	25-Apr-2025	Fluid Temp:	23.9	Frequency:	2300MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
2300.0000		37.6900	1.6700	39.4700	1.67	-4.51%	0.00%	0.010	0.007	1.000	1.000
2310.0000	*	37.6600	1.6900	39.4500	1.68	-4.54%	0.60%	0.013	0.009	1.000	1.000
2320.0000		37.5600	1.7000	39.4300	1.68	-4.74%	1.19%	0.017	0.011	1.000	1.000
2340.0000		37.4600	1.7100	39.4000	1.70	-4.92%	0.59%	0.014	0.009	1.000	1.000
2350.0000	*	37.4400	1.7400	39.3800	1.71	-4.93%	1.75%	0.020	0.013	1.000	1.000
2360.0000		37.2600	1.7400	39.3600	1.72	-5.34%	1.16%	0.018	0.012	1.000	1.000
2380.0000		37.2800	1.7600	39.3200	1.74	-5.19%	1.15%	0.017	0.011	1.000	1.000
2390.0000	*	37.2000	1.7700	39.3100	1.75	-5.37%	1.14%	0.018	0.012	1.000	1.000
2400.0000		37.1800	1.8000	39.2900	1.76	-5.37%	2.27%	0.023	0.015	1.000	1.000

*Channel Frequency Tested

Table 15.12 Fluid Dielectric Parameters 1900MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	29-Apr-2025	Fluid Temp:	22.3	Frequency:	1900MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
1880.0000		38.5800	1.4500	40.0000	1.40	-3.55%	3.57%	0.029	0.018	1.000	1.000
1882.5000	*	38.5825	1.4525	40.0000	1.40	-3.54%	3.75%	0.030	0.019	1.000	1.000
1890.0000		38.5900	1.4600	40.0000	1.40	-3.52%	4.29%	0.034	0.021	1.000	1.000
1900.0000		38.4500	1.4700	40.0000	1.40	-3.87%	5.00%	0.038	0.024	1.000	1.000
1905.0000	*	38.4200	1.4750	40.0000	1.40	-3.95%	5.36%	0.041	0.025	1.000	1.000
1910.0000		38.3900	1.4800	40.0000	1.40	-4.03%	5.71%	0.043	0.027	1.000	1.000
1920.0000		38.3600	1.5000	40.0000	1.40	-4.10%	7.14%	0.051	0.032	1.000	1.000
1930.0000	*	38.2800	1.5100	40.0000	1.40	-4.30%	7.86%	0.056	0.035	1.000	1.000
1940.0000		38.2500	1.5100	40.0000	1.40	-4.38%	7.86%	0.056	0.035	1.000	1.000
1950.0000	*	38.2100	1.5200	40.0000	1.40	-4.48%	8.57%	0.060	0.037	1.000	1.000
1960.0000		38.2000	1.5200	40.0000	1.40	-4.50%	8.57%	0.060	0.037	1.000	1.000
1970.0000	*	38.1500	1.5300	40.0000	1.40	-4.63%	9.29%	0.064	0.040	1.000	1.000

*Channel Frequency Tested

Table 15.13 Fluid Dielectric Parameters 1800MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	30-Apr-2025	Fluid Temp:	23.5	Frequency:	1800MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
1710.0000		37.9300	1.3300	40.1400	1.35	-5.51%	-1.48%	0.003	0.002	1.000	1.000
1720.0000	*	37.9500	1.3600	40.1300	1.35	-5.43%	0.74%	0.017	0.011	1.000	1.000
1730.0000		38.1100	1.3900	40.1100	1.36	-4.99%	2.21%	0.025	0.016	1.000	1.000
1740.0000		38.1000	1.4000	40.0900	1.37	-4.96%	2.19%	0.025	0.016	1.000	1.000
1745.0000	*	38.1350	1.4050	40.0850	1.37	-4.86%	2.55%	0.027	0.017	1.000	1.000
1750.0000		38.1700	1.4100	40.0800	1.37	-4.77%	2.92%	0.029	0.018	1.000	1.000
1760.0000		38.1900	1.4000	40.0600	1.38	-4.67%	1.45%	0.020	0.012	1.000	1.000
1770.0000	*	38.1000	1.3900	40.0500	1.38	-4.87%	0.72%	0.015	0.010	1.000	1.000
1780.0000		37.9900	1.3900	40.0300	1.39	-5.10%	0.00%	0.012	0.007	1.000	1.000
1800.0000		37.7800	1.3800	40.0000	1.40	-5.55%	-1.43%	0.004	0.002	1.000	1.000

*Channel Frequency Tested

Table 15.14 Fluid Dielectric Parameters 3700MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	24-May-2025	Fluid Temp:	24.3	Frequency:	3700MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
3610.0000	*	35.3900	3.2100	37.8000	3.03	-6.38%	5.94%	0.027	0.017	1.000	1.000
3650.0000	*	35.2500	3.2700	37.7600	3.07	-6.65%	6.51%	0.028	0.018	1.000	1.000
3690.0000	*	35.1500	3.3200	37.7100	3.11	-6.79%	6.75%	0.029	0.018	1.000	1.000
3700.0000		35.1700	3.3300	37.7000	3.12	-6.71%	6.73%	0.028	0.018	1.000	1.000

*Channel Frequency Tested

Table 15.15 Fluid Dielectric Parameters 835MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	26-May-2025	Fluid Temp:	23.9	Frequency:	835MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
815.0000		38.9800	0.9100	41.6000	0.90	-6.30%	1.11%	0.022	0.016	1.000	1.000
821.5000	*	38.6745	0.9230	41.5675	0.90	-6.96%	2.56%	0.035	0.025	1.000	1.000
825.0000		38.5100	0.9300	41.5500	0.90	-7.32%	3.33%	0.041	0.031	1.000	1.000
831.5000	*	38.5360	0.9300	41.5175	0.90	-7.18%	3.33%	0.041	0.030	1.000	1.000
835.0000		38.5500	0.9300	41.5000	0.90	-7.11%	3.33%	0.041	0.030	1.000	1.000
841.5000	*	38.4265	0.9365	41.5000	0.91	-7.41%	3.31%	0.041	0.030	1.000	1.000
845.0000		38.3600	0.9400	41.5000	0.91	-7.57%	3.30%	0.041	0.031	1.000	1.000

Table 15.16 Fluid Dielectric Parameters 835MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	28-May-2025	Fluid Temp:	23.6	Frequency:	835MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
775.0000		39.5500	0.8600	41.8100	0.90	-5.41%	-4.44%	-0.022	-0.019	1.022	1.019
781.9000	*	39.3292	0.8600	41.7755	0.90	-5.86%	-4.44%	-0.021	-0.019	1.021	1.019
781.9100	*	39.3289	0.8600	41.7755	0.90	-5.86%	-4.44%	-0.021	-0.019	1.021	1.019
784.0000	*	39.2620	0.8600	41.7650	0.90	-5.99%	-4.44%	-0.021	-0.018	1.021	1.018
785.0000		39.2300	0.8600	41.7600	0.90	-6.06%	-4.44%	-0.020	-0.018	1.020	1.018
788.4050	*	39.3287	0.8668	41.7430	0.90	-5.78%	-3.69%	-0.015	-0.014	1.015	1.014
805.0000		38.9700	0.8800	41.6600	0.90	-6.46%	-2.22%	-0.003	-0.004	1.003	1.004
835.0000		38.8700	0.9300	41.5000	0.90	-6.34%	3.33%	0.039	0.029	1.000	1.000

*Channel Frequency Tested

Table 15.17 Fluid Dielectric Parameters 750MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	29-May-2025	Fluid Temp:	24.9	Frequency:	750MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
670.0000		43.2500	0.8300	42.3600	0.89	2.10%	-6.74%	-0.056	-0.046	1.056	1.046
672.8200	*	43.2021	0.8328	42.3459	0.89	2.02%	-6.42%	-0.054	-0.044	1.054	1.044
672.9000	*	43.2007	0.8329	42.3455	0.89	2.02%	-6.42%	-0.054	-0.044	1.054	1.044
680.0000		43.0800	0.8400	42.3100	0.89	1.82%	-5.62%	-0.047	-0.038	1.047	1.038
700.0000		42.7000	0.8600	42.2000	0.89	1.18%	-3.37%	-0.028	-0.023	1.028	1.023
708.4900	*	42.6321	0.8685	42.1576	0.89	1.13%	-2.42%	-0.021	-0.017	1.021	1.017
709.5000	*	42.6240	0.8695	42.1525	0.89	1.12%	-2.30%	-0.020	-0.016	1.020	1.016
710.0000		42.6200	0.8700	42.1500	0.89	1.12%	-2.25%	-0.020	-0.016	1.020	1.016
710.9000	*	42.5903	0.8709	42.1455	0.89	1.06%	-2.15%	-0.019	-0.015	1.019	1.015
710.9100	*	42.5900	0.8709	42.1455	0.89	1.05%	-2.14%	-0.019	-0.015	1.019	1.015
720.0000		42.2900	0.8800	42.1000	0.89	0.45%	-1.12%	-0.010	-0.008	1.010	1.008
725.4000	*	42.2738	0.8854	42.0730	0.89	0.48%	-0.52%	-0.005	-0.004	1.005	1.004
730.0000		42.2600	0.8900	42.0500	0.89	0.50%	0.00%	-0.001	-0.001	1.001	1.001
737.9000	*	42.1494	0.9058	42.0026	0.89	0.35%	1.78%	0.013	0.010	1.000	1.000
740.0000		42.1200	0.9100	41.9900	0.89	0.31%	2.25%	0.016	0.013	1.000	1.000
750.0000		41.9400	0.9200	41.9400	0.89	0.00%	3.37%	0.026	0.021	1.000	1.000
780.0000		41.5100	0.9400	41.7900	0.90	-0.67%	4.44%	0.035	0.028	1.000	1.000
788.5900	*	41.3726	0.9486	41.7385	0.90	-0.88%	5.40%	0.043	0.034	1.000	1.000
790.0000		41.3500	0.9500	41.7300	0.90	-0.91%	5.56%	0.044	0.035	1.000	1.000
790.7100	*	41.3386	0.9507	41.7265	0.90	-0.93%	5.63%	0.045	0.036	1.000	1.000
792.9100	*	41.3034	0.9529	41.7155	0.90	-0.99%	5.88%	0.047	0.037	1.000	1.000
797.4050	*	41.2315	0.9574	41.6930	0.90	-1.11%	6.38%	0.051	0.040	1.000	1.000
800.0000		41.1900	0.9600	41.6800	0.90	-1.18%	6.67%	0.053	0.042	1.000	1.000

*Channel Frequency Tested

Table 15.18 Fluid Dielectric Parameters 450MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2									
Date:	2-Jun-2025		Fluid Temp:		22.3		Frequency:	450MHz		Tissue:		Head		ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε		Test σ (S/m)		Target ε		Target σ (S/m)		Deviation Permittivity		Deviation Conductivity				1g	10g
400.0000			47.9100	0.7900		44.1000		0.87		8.64%		-9.20%		-0.090	-0.077	1.090	1.077
406.1000		*	47.8551	0.7961		44.0268		0.87		8.70%		-8.49%		-0.085	-0.073	1.085	1.073
410.0000			47.8200	0.8000		43.9800		0.87		8.73%		-8.05%		-0.081	-0.069	1.081	1.069
420.0000			47.4900	0.8100		43.8600		0.87		8.28%		-6.90%		-0.071	-0.061	1.071	1.061
430.0000			47.0800	0.8100		43.7400		0.87		7.64%		-6.90%		-0.070	-0.059	1.070	1.059
430.0125		*	47.0799	0.8100		43.7399		0.87		7.64%		-6.89%		-0.070	-0.059	1.070	1.059
440.0000			46.9600	0.8300		43.6200		0.87		7.66%		-4.60%		-0.052	-0.044	1.052	1.044
450.0000			46.7100	0.8300		43.5000		0.87		7.38%		-4.60%		-0.052	-0.043	1.052	1.043
450.0125		*	46.7099	0.8300		43.4999		0.87		7.38%		-4.60%		-0.052	-0.043	1.052	1.043
460.0000			46.6100	0.8400		43.4500		0.87		7.27%		-3.45%		-0.042	-0.035	1.042	1.035

*Channel Frequency Tested

Table 15.19 Fluid Dielectric Parameters 835MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2				
Date:	5-Jun-2025	Fluid Temp:	23.9	Frequency:	835MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction		
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			Factor (1)		
										1g	10g	
835.0000			38.8200	0.9900	41.5000	0.90	-6.46%	10.00%	0.089	0.069	1.000	1.000
865.0000			38.4500	1.0000	41.5000	0.93	-7.35%	7.53%	0.073	0.055	1.000	1.000
868.9875		*	38.2626	1.0080	41.5000	0.93	-7.80%	7.92%	0.077	0.058	1.000	1.000
875.0000			37.9800	1.0200	41.5000	0.94	-8.48%	8.51%	0.082	0.062	1.000	1.000

*Channel Frequency Tested

Table 15.20 Fluid Dielectric Parameters 450MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2					
Date:	6-Jun-2025		Fluid Temp:		23	Frequency:	450MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity	1g	10g				
400.0000			46.4200	0.8300	44.1000	0.87	5.26%	-4.60%	-0.047	-0.040	1.047	1.040	
406.1000		*	46.3712	0.8361	44.0268	0.87	5.32%	-3.90%	-0.042	-0.035	1.042	1.035	
410.0000			46.3400	0.8400	43.9800	0.87	5.37%	-3.45%	-0.038	-0.032	1.038	1.032	
430.0000			45.6800	0.8600	43.7400	0.87	4.44%	-1.15%	-0.018	-0.015	1.018	1.015	
430.0125		*	45.6800	0.8600	43.7399	0.87	4.44%	-1.15%	-0.018	-0.015	1.018	1.015	
440.0000			45.6800	0.8700	43.6200	0.87	4.72%	0.00%	-0.010	-0.007	1.010	1.007	
450.0000			45.5700	0.8800	43.5000	0.87	4.76%	1.15%	-0.001	0.000	1.001	1.000	
450.0125		*	45.5698	0.8800	43.4999	0.87	4.76%	1.15%	-0.001	0.000	1.001	1.000	
460.0000			45.4400	0.8900	43.4500	0.87	4.58%	2.30%	0.008	0.008	1.000	1.000	

*Channel Frequency Tested

Table 15.21 Fluid Dielectric Parameters 150MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	7-Jun-2025	Fluid Temp:	23	Frequency:	150MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
130.0000		58.5100	0.7700	53.2300	0.75	9.92%	2.67%	0.001	0.002	1.000	1.000
138.0125	*	57.3081	0.7700	52.8614	0.75	8.41%	2.67%	0.004	0.005	1.000	1.000
140.0000		57.0100	0.7700	52.7700	0.75	8.03%	2.67%	0.004	0.006	1.000	1.000
141.0125	*	57.0019	0.7700	52.7224	0.75	8.12%	2.53%	0.003	0.005	1.000	1.000
150.0000		56.9300	0.7700	52.3000	0.76	8.85%	1.32%	-0.008	-0.006	1.008	1.006

*Channel Frequency Tested

Table 15.22 Fluid Dielectric Parameters 5250MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	9-Jun-2025	Fluid Temp:	22.9	Frequency:	5250MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
5170.0000		33.5900	4.5600	36.0200	4.62	-6.75%	-1.30%	0.014	0.018	1.000	1.000
5180.0000	*	33.0200	4.6200	36.0100	4.63	-8.30%	-0.22%	0.017	0.021	1.000	1.000
5190.0000		32.9400	4.7800	36.0000	4.64	-8.50%	3.02%	0.016	0.020	1.000	1.000
5210.0000		34.6200	4.9200	35.9700	4.67	-3.75%	5.35%	0.006	0.007	1.000	1.000
5220.0000	*	35.9000	4.8000	35.9600	4.68	-0.17%	2.56%	0.000	-0.001	1.000	1.001
5230.0000		36.1100	4.6600	35.9500	4.69	0.45%	-0.64%	-0.001	-0.001	1.001	1.001
5240.0000	*	36.1700	4.2600	35.9400	4.70	0.64%	-9.36%	0.001	0.003	1.000	1.000
5250.0000		34.8400	4.4400	35.9300	4.71	-3.03%	-5.73%	0.008	0.011	1.000	1.000

*Channel Frequency Tested

Table 15.23 Fluid Dielectric Parameters 5750MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	9-Jun-2025	Fluid Temp:	23.4	Frequency:	5750MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
5740.0000		33.4200	5.2500	35.3700	5.21	-5.51%	0.77%	0.011	0.014	1.000	1.000
5745.0000	*	33.3600	5.2600	35.3650	5.22	-5.67%	0.86%	0.011	0.014	1.000	1.000
5750.0000		33.3000	5.2700	35.3600	5.22	-5.83%	0.96%	0.011	0.015	1.000	1.000
5780.0000		33.2100	5.2500	35.3200	5.25	-5.97%	0.00%	0.012	0.015	1.000	1.000
5785.0000	*	33.2250	5.2500	35.3150	5.26	-5.92%	-0.10%	0.012	0.015	1.000	1.000
5790.0000		33.2400	5.2500	35.3100	5.26	-5.86%	-0.19%	0.012	0.015	1.000	1.000
5820.0000		33.0300	5.3000	35.2800	5.29	-6.38%	0.19%	0.013	0.016	1.000	1.000
5825.0000	*	33.0750	5.3350	35.2750	5.30	-6.24%	0.76%	0.012	0.016	1.000	1.000
5830.0000		33.1200	5.3700	35.2700	5.30	-6.10%	1.32%	0.012	0.015	1.000	1.000

*Channel Frequency Tested

Table 15.24 Fluid Dielectric Parameters 2600MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2				
Date:	10-Jun-2025	Fluid Temp:	23.9	Frequency:	2600MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)		
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g	
2500.0000			37.8100	2.0000	39.1400	1.85	-3.40%	8.11%	0.046	0.026	1.000	1.000
2501.4900		*	37.8040	2.0000	39.1370	1.85	-3.41%	7.93%	0.045	0.025	1.000	1.000
2506.0000		*	37.7860	2.0000	39.1280	1.86	-3.43%	7.41%	0.042	0.024	1.000	1.000
2510.0000			37.7700	2.0000	39.1200	1.87	-3.45%	6.95%	0.040	0.023	1.000	1.000
2590.0000			37.3300	2.1000	39.0200	1.95	-4.33%	7.69%	0.044	0.025	1.000	1.000
2597.3000		*	37.2424	2.1146	39.0127	1.96	-4.54%	8.04%	0.046	0.026	1.000	1.000
2600.0000			37.2100	2.1200	39.0100	1.96	-4.61%	8.16%	0.047	0.026	1.000	1.000
2670.0000			36.7500	2.2100	38.9200	2.04	-5.58%	8.33%	0.048	0.027	1.000	1.000
2671.0900		*	36.7533	2.2100	38.9189	2.04	-5.56%	8.28%	0.048	0.027	1.000	1.000
2680.0000			36.7800	2.2100	38.9100	2.05	-5.47%	7.80%	0.046	0.026	1.000	1.000
2684.3000		*	36.8488	2.2186	38.9014	2.05	-5.28%	8.00%	0.046	0.026	1.000	1.000
2690.0000			36.9400	2.2300	38.8900	2.06	-5.01%	8.25%	0.046	0.026	1.000	1.000

*Channel Frequency Tested

Table 15.25 Fluid Dielectric Parameters 2450MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2				
Date:	10-Jun-2025	Fluid Temp:		23.6	Frequency:	2450MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity	1g			10g	
2410.0000			37.1200	1.8400	39.2700	1.76	-5.47%	4.55%	0.035	0.021	1.000	1.000
2412.0000		*	37.1100	1.8460	39.2660	1.76	-5.49%	4.77%	0.036	0.021	1.000	1.000
2420.0000			37.0700	1.8700	39.2500	1.77	-5.55%	5.65%	0.040	0.024	1.000	1.000
2450.0000			37.0800	1.9100	39.2000	1.80	-5.41%	6.11%	0.042	0.024	1.000	1.000

*Channel Frequency Tested

Table 15.26 Fluid Dielectric Parameters 835MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2				
Date:	29-Sep-2025	Fluid Temp:		22.9	Frequency:	835MHz	Tissue:	Head	ΔSAR 1g	ΔSAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ε	Test σ (S/m)	Target ε	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity	1g			10g	
835.0000			39.0400	0.9500	41.5000	0.90	-5.93%	5.56%	0.055	0.042	1.000	1.000
865.0000			38.3600	0.9900	41.5000	0.93	-7.57%	6.45%	0.065	0.049	1.000	1.000
868.9875		*	38.4278	0.9940	41.5000	0.93	-7.40%	6.42%	0.064	0.049	1.000	1.000
875.0000			38.5300	1.0000	41.5000	0.94	-7.16%	6.38%	0.064	0.048	1.000	1.000
895.0000			38.2000	1.0300	41.5000	0.96	-7.95%	7.29%	0.072	0.054	1.000	1.000
897.5000		*	38.1525	1.0300	41.5000	0.96	-8.07%	7.01%	0.070	0.053	1.000	1.000
905.0000			38.0100	1.0300	41.5000	0.97	-8.41%	6.19%	0.065	0.048	1.000	1.000

*Channel Frequency Tested

Table 15.27 Fluid Dielectric Parameters 750MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	1-Oct-2025	Fluid Temp:	22.8	Frequency:	750MHz	Tissue:	Head	Δ SAR 1g	Δ SAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ϵ	Test σ (S/m)	Target ϵ	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
710.0000		42.4600	0.8500	42.1500	0.89	0.74%	-4.49%	-0.036	-0.029	1.036	1.029
710.9100	*	42.4473	0.8509	42.1455	0.89	0.72%	-4.39%	-0.035	-0.029	1.035	1.029
720.0000		42.3200	0.8600	42.1000	0.89	0.52%	-3.37%	-0.027	-0.022	1.027	1.022
750.0000		41.6900	0.9000	41.9400	0.89	-0.60%	1.12%	0.010	0.008	1.000	1.000

*Channel Frequency Tested

Table 15.28 Fluid Dielectric Parameters 450MHz HEAD TSL

FLUID DIELECTRIC PARAMETERS								Fluid Sensitivity Calculation IEC/IEEE 62209-1528 7.8.2			
Date:	2-Oct-2025	Fluid Temp:	23.1	Frequency:	450MHz	Tissue:	Head	Δ SAR 1g	Δ SAR 10g	SAR Correction Factor (1)	
Freq (MHz)		Test ϵ	Test σ (S/m)	Target ϵ	Target σ (S/m)	Deviation Permittivity	Deviation Conductivity			1g	10g
430.0000		46.9800	0.8700	43.7400	0.87	7.41%	0.00%	-0.016	-0.012	1.016	1.012
430.0125	*	46.9798	0.8700	43.7399	0.87	7.41%	0.00%	-0.016	-0.012	1.016	1.012
440.0000		46.7900	0.8800	43.6200	0.87	7.27%	1.15%	-0.007	-0.004	1.007	1.004
450.0000		46.7000	0.8800	43.5000	0.87	7.36%	1.15%	-0.007	-0.004	1.007	1.004

*Channel Frequency Tested

16.0 SYSTEM VERIFICATION TEST RESULTS

Table 16.1 System Verification Results 835MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Feb 10 2025		835	D835V2	4d075	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.4	24	18%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
39.87	41.50	-3.93%	0.97	0.90	7.78%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
2.51	2.46	2.03%	1.62	1.60	1.25%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
10.04	9.75	2.97%	6.48	6.34	2.21%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.2 System Verification Results 835MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Mar 12 2025		835	D835V2	4d075	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.9	24	31%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
40.13	41.50	-3.30%	0.97	0.90	7.78%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
2.58	2.46	4.88%	1.68	1.60	5.00%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
10.32	9.75	5.85%	6.72	6.34	5.99%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.3 System Verification Results 450MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Mar 17 2025		450	D450V3	1068	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.3	23	26%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
45.63	43.50	4.90%	0.85	0.87	-2.30%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
1.10	1.15	-4.35%	0.77	0.77	-0.26%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
4.40	4.63	-4.97%	3.08	3.10	-0.77%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.4 System Verification Results 2450MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Mar 25 2025		2450	D2450V2	825	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.1	24	29%	250	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
36.45	39.20	-7.02%	1.89	1.80	5.00%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
14.10	13.13	7.43%	6.45	6.23	3.61%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
56.40	52.50	7.43%	25.80	24.90	3.61%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.5 System Verification Results 5250MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Apr 2 2025		5250	D5GHzV2	1031	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.8	23	30%	50	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
34.85	35.93	-3.01%	4.47	4.71	-5.10%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
3.95	4.03	-1.86%	1.12	1.15	-2.61%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
79.00	80.50	-1.86%	22.40	23.00	-2.61%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.6 System Verification Results 5750MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Apr 4 2025		5750	D5GHzV2	1031	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.1	26	25%	50	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
34.15	35.36	-3.42%	5.24	5.22	0.38%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
3.94	3.93	0.25%	1.12	1.12	0.00%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
78.80	78.60	0.25%	22.40	22.40	0.00%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.7 System Verification Results 150MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Apr 11 2025		150	CLA-150	4007	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.0	25	28%	1000	0
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
49.73	52.30	-4.91%	0.76	0.76	0.00%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
3.96	3.93	0.76%	2.64	2.61	1.15%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
3.96	3.90	1.54%	2.64	2.59	1.93%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.8 System Verification Results 835MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Apr 15 2025		835	D835V2	4d075	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.8	26	28%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
39.50	41.50	-4.82%	0.97	0.90	7.78%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
2.65	2.46	7.72%	1.73	1.60	8.12%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
10.60	9.75	8.72%	6.92	6.34	9.15%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.9 System Verification Results 2600MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Apr 22 2025		2600	ALS-D-2600-S-2	225-00906	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.1	26	25%	250	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
41.72	39.01	6.95%	2.10	1.96	7.14%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
13.70	13.96	-1.84%	6.15	6.26	-1.68%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
54.80	55.95	-2.06%	24.60	25.02	-1.68%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.10 System Verification Results 2300MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Apr 25 2025		2300	ALS-E-2300-S-2	218-00201	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.9	25	26%	250	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
37.69	39.47	-4.51%	1.67	1.67	0.00%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
12.40	12.54	-1.12%	5.69	6.08	-6.34%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
49.60	50.16	-1.12%	22.76	24.30	-6.34%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.11 System Verification Results 1900MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Apr 29 2025		1900	D1900V2	5d107	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.3	25	28%	250	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
38.45	40.00	-3.87%	1.47	1.40	5.00%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
9.61	9.95	-3.42%	4.95	5.25	-5.71%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
38.44	39.80	-3.42%	19.80	21.00	-5.71%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.12 System Verification Results 1800MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Apr 30 2025		1800	D1800V2	247	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.5	25	29%	250	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
37.78	40.00	-5.55%	1.38	1.40	-1.43%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
9.38	9.75	-3.79%	4.92	5.13	-4.00%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
37.52	39.00	-3.79%	19.68	20.50	-4.00%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.13 System Verification Results 3700MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
May 24 2025		3700	D3700V2	1145	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	24.3	26	26%	100	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
35.17	37.70	-6.71%	3.33	3.12	6.73%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
7.28	6.88	5.81%	2.55	2.53	0.79%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
72.80	68.80	5.81%	25.50	25.30	0.79%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.14 System Verification Results 835MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
May 26 2025		835	D835V2	4d075	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.8	26	40%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
38.55	41.50	-7.11%	0.93	0.90	3.33%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
2.48	2.46	0.81%	1.57	1.60	-1.88%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
9.92	9.75	1.74%	6.28	6.34	-0.95%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.15 System Verification Results 750MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
May 29 2025		750	D750V3	1061	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	24.5	24	3820%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
41.94	41.94	0.00%	0.92	0.89	3.37%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
2.21	2.22	-0.45%	1.47	1.44	1.91%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
8.84	8.88	-0.45%	5.88	5.77	1.91%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.16 System Verification Results 450MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Jun 2 2025		450	D450V3	1068	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.3	23	37%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
46.71	43.50	7.38%	0.83	0.87	-4.60%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
1.18	1.15	2.61%	0.81	0.77	5.06%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
4.72	4.63	1.94%	3.24	3.10	4.52%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.17 System Verification Results 835MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Jun 5 2025		835	D835V2	4d075	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.9	24	35%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
38.82	41.50	-6.46%	0.99	0.90	10.00%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
2.43	2.46	-1.22%	1.59	1.60	-0.63%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
9.72	9.75	-0.31%	6.36	6.34	0.32%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.18 System Verification Results 450MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Jun 6 2025		450	D450V3	1068	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.6	24	32%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
45.57	43.50	4.76%	0.88	0.87	1.15%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
1.17	1.15	1.74%	0.80	0.77	4.28%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
4.68	4.63	1.08%	3.22	3.10	3.74%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.19 System Verification Results 150MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Jun 7 2025		150	CLA-150	4007	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.0	23	39%	1000	0
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
56.93	52.30	8.85%	0.77	0.76	1.32%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
3.90	3.93	-0.76%	2.61	2.61	0.00%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
3.90	3.90	0.00%	2.61	2.59	0.77%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.20 System Verification Results 5250MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Jun 9 2025		5250	D5GHzV2	1031	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.2	24	37%	50	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
34.84	35.93	-3.03%	4.44	4.71	-5.73%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
3.92	4.03	-2.61%	1.12	1.15	-2.61%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
78.40	80.50	-2.61%	22.40	23.00	-2.61%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.21 System Verification Results 5750MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Jun 9 2025		5750	D5GHzV2	1031	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.2	24	37%	50	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
33.30	35.36	-5.83%	5.27	5.22	0.96%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
3.93	3.93	0.00%	1.11	1.12	-0.89%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
78.60	78.60	0.00%	22.20	22.40	-0.89%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.22 System Verification Results 2600MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Jun 10 2025		2600	ALS-D-2600-S-2	225-00906	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.9	24	37%	250	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
37.21	39.01	-4.61%	2.12	1.96	8.16%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
15.00	13.96	7.47%	6.49	6.26	3.76%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
60.00	55.95	7.24%	25.96	25.02	3.76%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.23 System Verification Results 2450MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
Jun 10 2025		2450	D2450V2	825	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	23.6	25	33%	250	10
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
37.08	39.20	-5.41%	1.91	1.80	6.11%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
12.60	13.13	-4.00%	5.65	6.23	-9.24%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
50.40	52.50	-4.00%	22.60	24.90	-9.24%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.24 System Verification Results 835MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
9/29/2025		835	D835V2	4d075	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.9	23	42%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
39.04	41.50	-5.93%	0.95	0.90	5.56%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
9.88	9.75	1.33%	6.47	6.34	2.05%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
9.88	9.75	1.33%	6.47	6.34	2.05%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a SPEAG validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

Table 16.25 System Verification Results 750MHz HEAD TSL

System Verification Test Results					
Date		Frequency (MHz)	Validation Source		
			P/N	S/N	
10/1/2025		750	D750V3	1061	
Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Source Spacing (mm)
Head	22.9	24	34%	250	15
Fluid Parameters					
Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation
41.69	41.94	-0.60%	0.90	0.89	1.12%
Measured SAR					
1 gram			10 gram		
Measured	Target	Deviation	Measured	Target	Deviation
2.12	2.22	-4.50%	1.42	1.44	-1.56%
Measured SAR Normalized to 1.0W					
1 gram			10 gram		
Normalized	Target	Deviation	Normalized	Target	Deviation
8.48	8.88	-4.50%	5.68	5.77	-1.56%
Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a SPEAG validation dipole in accordance with the procedures described in IEC/IEEE 62209-1528 and FCC KDB 865664, The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer. The forward power was applied to the dipole and the system was verified to a tolerance of +10% from the system manufacturer's dipole calibration target SAR value. The forward power applied was same forward power applied by the calibration lab during the calibration of this validation source.					

17.0 SYSTEM VALIDATION SUMMARY

Table 17.1 System Validation Summary

System Validation Summary												
Frequency (MHz)	Validation Date	Probe Model	Probe S/N	Validation Source	Source S/N	Tissue	Tissue Dielectrics		Validation Results			Modulation
							Permittivity	Conductivity	Sensitivity	Linearity	Isotropy	
150	11-Apr-25	EX3DV4	7826	CLA-150	4007	Head	49.73	0.76	✓	✓	✓	CW
150	7-Jun-25	EX3DV4	7826	CLA-150	4007	Head	56.93	0.77	✓	✓	✓	CW
450	17-Mar-25	EX3DV4	7826	D450V3	1068	Head	45.63	0.85	✓	✓	✓	CW
450	2-Jun-25	EX3DV4	7826	D450V3	1068	Head	46.71	0.83	✓	✓	✓	CW
750	29-May-25	EX3DV4	7826	D750V3	1061	Head	41.94	0.92	✓	✓	✓	LTE
835	31-May-24	EX3DV4	7826	D835V2	4d075	Head	38.65	0.94	✓	✓	✓	CW/QPSK
835	5-Jun-25	EX3DV4	7826	D835V2	4d075	Head	38.82	0.99	✓	✓	✓	CW/QPSK
1800	30-Apr-25	EX3DV4	7826	D1800V2	247	Head	37.78	1.38	✓	✓	✓	QPSK
1900	29-Apr-25	EX3DV4	7826	D1900V2	5d107	Head	38.45	1.47	✓	✓	✓	QPSK
2300	25-Apr-25	EX3DV4	7826	ALS-D-2300-S-2	218-00201	Head	37.69	1.67	✓	✓	✓	QPSK
2450	28-May-24	EX3DV4	7826	D2450V2	825	Head	39.2	1.8	✓	✓	✓	CCK/OFDM
2450	10-Jun-25	EX3DV4	7826	D2450V2	825	Head	37.08	1.91	✓	✓	✓	CCK/OFDM
2600	4-Mar-25	EX3DV4	7826	ALS-D-2600-S-2	225-00906	Head	42.28	2.09	✓	✓	✓	QPSK
2600	10-Jun-25	EX3DV4	7826	ALS-D-2600-S-2	225-00906	Head	37.21	2.12	✓	✓	✓	QPSK
3700	12-Jun-25	EX3DV4	7826	D5GHzV2	1145	Head	35.17	3.33	✓	✓	✓	QPSK
5250	23-Jul-24	EX3DV4	7826	D5GHzV2	1031	Head	33.98	4.88	✓	✓	✓	OFDM
5250	9-Jun-25	EX3DV4	7826	D5GHzV2	1031	Head	34.84	4.44	✓	✓	✓	OFDM
5750	25-Jul-24	EX3DV4	7826	D5GHzV2	1031	Head	33.21	5.35	✓	✓	✓	OFDM
5750	9-Jun-25	EX3DV4	7826	D5GHzV2	1031	Head	33.3	5.27	✓	✓	✓	OFDM

18.0 MEASUREMENT SYSTEM SPECIFICATIONS

Measurement System Specification	
Specifications	
Positioner	Stäubli Unimation Corp. Robot Model: TX90XL
Repeatability	+/- 0.035 mm
No. of axis	6.0
Data Acquisition Electronic (DAE) System	
Cell Controller	
Processor	Intel(R) Core(TM) i7-7700
Clock Speed	3.60 GHz
Operating System	Windows 10 Professional
Data Converter	
Features	Signal Amplifier, multiplexer, A/D converter, and control logic
Software	Measurement Software: DASY6, V 6.4.0.12171 / DASY52 V10.2(1504)
	Postprocessing Software: SEMCAD X, V14.6.12(7470)
Connecting Lines	Optical downlink for data and status info., Optical uplink for commands and clock
DASY Measurement Server	
Function	Real-time data evaluation for field measurements and surface detection
Hardware	Intel ULV Celeron CPU 400 MHz; 128 MB chip disk; 128 MB RAM
Connections	COM1, COM2, DAE, Robot, Ethernet, Service Interface
E-Field Probe	
Model	EX3DV4
Serial No.	7826
Construction	Triangular core fiber optic detection system
Frequency	10 MHz to 6 GHz
Linearity	±0.2 dB (30 MHz to 3 GHz)
Phantom	
Type	ELI Elliptical Planar Phantom
Shell Material	Fiberglass
Thickness	2mm +/- .2mm
Volume	> 30 Liter
Phantom	
Type	Twin SAM Phantom
Shell Material	Fiberglass
Thickness	2mm +/- .2mm
Volume	< 25 Liter
Phantom	
Type	Modular Flat Phantom
Shell Material	Fiberglass
Thickness	2mm +/- .2mm
Volume	< 9 Liter

Table 18.1 Measurement System Specifications

Table 18.1		
Measurement System Specification (Continued)		
Probe Specification		
Construction:	Symmetrical design with triangular core; Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents (e.g. DGBE))	
Calibration:	ISO/IEC 17025	
Frequency:	4 MHz - 10 GHz; Linearity: ± 0.2 dB (30 MHz - 10 GHz)	
Directivity:	± 0.1 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range:	10 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB (noise: typically <1 mW/g)	
Dimensions:	Overall length: 337 mm; (tip: 20 mm) Tip diameter: 2.5 mm; Tip (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	
Application:	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better than 30%	EX3DV4 E-Field Probe
Phantom Specification		
The ELI V5.0 phantom is an elliptical planar fiberglass shell phantom with a shell thickness of 2.0mm +/- .2mm at the planar area. This phantom conforms to OET Bulletin 65, Supplement C, IEC/IEEE 62209-1528.		
		ELI Phantom
Phantom Specification		
The SAM V4.0 phantom is a flat planar fiberglass shell phantom with a shell thickness of 2.0mm +/- .2mm at the planar area. This phantom conforms to OET Bulletin 65, Supplement C, IEC/IEEE 62209-1528.		
		SAM Phantom
Phantom Specification		
The MFP V5.1C phantom is a flat planar fiberglass shell phantom with a shell thickness of 2.0mm +/- .2mm at the planar area. This phantom conforms to OET Bulletin 65, Supplement C, IEC/IEEE 62209-1528.		
		MFP Phantom
Device Positioner Specification		
The DASY device positioner has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections.		
		Device Positioner

19.0 TEST EQUIPMENT LIST

Table 19.1 Equipment List and Calibration

Test Equipment List						
DESCRIPTION	ASSET NO.	SERIAL NO.	2024		2025	
			DATE CALIBRATED	CALIBRATION DUE	DATE CALIBRATED	CALIBRATION DUE
Schmid & Partner DASY 6 System	-	-	-	-	-	-
-DASY Measurement Server	00158	1078	CNR	CNR	CNR	CNR
-Robot	00046	599396-01	CNR	CNR	CNR	CNR
-DAE4	00019	353	13-May-24	13-May-25	9-May-25	9-May-26
-EX3DV4 E-Field Probe	00357	7826	15-May-24	15-May-25	15-May-25	15-May-26
-CLA150 Validation Dipole	00251	4007	13-Apr-23	13-Apr-26	N/A	13-Apr-26
-D450V3 Validation Dipole	00221	1068	10-May-24	13-Apr-26	N/A	13-Apr-26
-D750V3 Validation Dipole	00238	1061	14-Apr-22	14-Apr-25	8-May-25	8-May-26
-D835V2 Validation Dipole	00217	4D075	n/a	n/a	10-May-24	10-May-27
-D1800V2 Validation Dipole	00222	247	19-Apr-23	19-Apr-26	13-May-25	13-May-28
-D1900V2 Validation Dipole	00218	5d107	19-Apr-23	19-Apr-26	18-May-25	18-May-28
-D2450V2 Validation Dipole	00219	825	15-May-24	15-May-27	N/A	15-May-27
-ALS-D-2600-S-2 Validation Dipole	00327	225-00906	n/a	n/a	17-Mar-25	17-Mar-28
-D3700V2 Validation Dipole	00364	1145			12-May-25	12-May-28
-D5GHzV2 Validation Dipole	00126	1031	16-May-24	16-May-27	N/A	16-May-27
ELI Phantom	00247	1234	CNR	CNR	CNR	CNR
MFP Phantom	00355	1177/2	CNR	CNR	CNR	CNR
HP 85070C Dielectric Probe Kit	00033	none	CNR	CNR	CNR	CNR
HP 8753ET Network Analyzer	00134	US39170292	6-Jan-24	6-Jan-27	N/A	6-Jan-27
Rohde & Schwarz SMR20 Signal Generator	00006	100104	COU	COU	COU	COU
Amplifier Research 10W1000C Power Amplifier	00041	27887	CNR	CNR	CNR	CNR
Amplifier Research 5S1G4 Power Amplifier	00106	26235	CNR	CNR	CNR	CNR
Narda Directional Coupler 3020A	00064	-	CNR	CNR	CNR	CNR
Bipolar Power Supply 6299A	00086	1144A02155	CNR	CNR	CNR	CNR
DC-18G 10W 30db Attenuator	00102	-	COU	COU	COU	COU
R&S FSP40 Spectrum Analyzer	00241	100500	10-Sep-24	10-Sep-27	N/A	10-Sep-27
HP 8566B Spectrum Analyzer	00051	2747A055100	6-Jul-24	6-Jul-27	N/A	6-Jul-27
RF Cable-SMA	00311	-	CNR	CNR	CNR	CNR
HP Calibration Kit	00145	-	CNR	CNR	CNR	CNR

CNR = Calibration Not Required
SB=Stand By
COU = Calibrate on Use

20.0 FLUID COMPOSITION

Table 20.1 Fluid Composition 150MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				150MHz Head
Component by Percent Weight				
Water	Sugar	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
38.35	55.5	5.15	0.9	0.1

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical Dowicil 75 Antimicrobial Perservative

Table 20.2 Fluid Composition 450MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				450MHz Head
Component by Percent Weight				
Water	Sugar	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
38.56	56.32	3.95	0.98	0.19

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical Dowicil 75 Antimicrobial Perservative

Table 20.3 Fluid Composition 750MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				750MHz Head
Component by Percent Weight				
Water	Sugar	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
40.71	56.63	1.48	0.99	0.19

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical Dowicil 75 Antimicrobial Perservative

Table 20.4 Fluid Composition 835MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				835MHz Head
Component by Percent Weight				
Water	Sugar	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
40.71	56.63	1.48	0.99	0.19

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical Dowicil 75 Antimicrobial Perservative

Table 20.5 Fluid Composition 1800MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				1800MHz Head
Component by Percent Weight				
Water	Glycol	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
54.8	44.9	0.3	0.0	0.0

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical Dowicil 75 Antimicrobial Perservative

Table 20.6 Fluid Composition 1900MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				1900MHz Head
Component by Percent Weight				
Water	Glycol	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
53.6	46.1	0.3	0.0	0.0

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical Dowicil 75 Antimicrobial Perservative

Table 20.7 Fluid Composition 2300MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				2300MHz Head
Component by Percent Weight				
Water	Glycol	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
52.8	47.0	0.2	0.0	0.0

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical Dowicil 75 Antimicrobial Perservative

Table 20.8 Fluid Composition 2450MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				2450MHz Head
Component by Percent Weight				
Water	Glycol	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
52.0	48.0	0.0	0.0	0.0

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical DOWICIL 75 Antimicrobial Preservative

Table 20.9 Fluid Composition 2600MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				2600MHz Head
Component by Percent Weight				
Water	Glycol	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
51.8	48.2	0.0	0.0	0.0

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical DOWICIL 75 Antimicrobial Preservative

Table 20.10 Fluid Composition 3700MHz HEAD TSL

Tissue Simulating Liquid (TSL) Composition				3700MHz Head
Component by Percent Weight				
Water	Glycol	Salt ⁽¹⁾	HEC ⁽²⁾	Bacteriacide ⁽³⁾
50.5	49.5	0.0	0.0	0.0

(1) Non-Iodinized

(2) HydroxyEthyl-Cellulose: Sigma-Aldrich P/N 54290-500g

(3) Dow Chemical DOWICIL 75 Antimicrobial Preservative

Table 20.11 Fluid Composition 5GHz HEAD TSL

The 5GHz Head TSL is a SPEAG proprietary broad band fluid:

Type: **HBBL3500-5500V2**

Batch number: **131210-2**

P/N: **SL AAH 502 AC**

APPENDIX A – SYSTEM VERIFICATION PLOTS

DUT: D835V2 - SN4d075; Type: D835V2; Serial: SN4d075

Procedure Name: SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 40.13$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 2/10/2025 4:58:06 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.27, 8.89, 9.16) @ 835 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g 2 2/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g 2 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

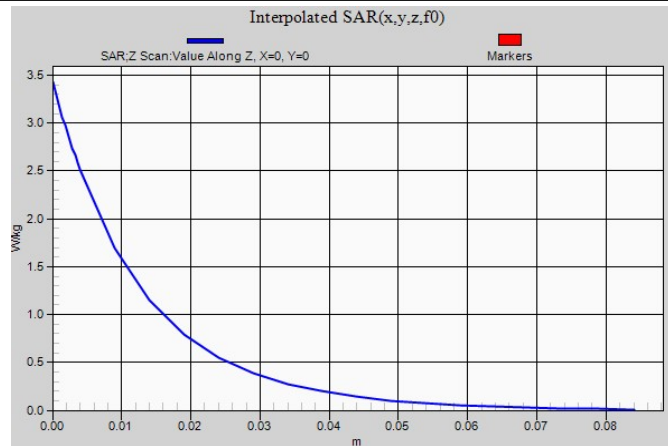
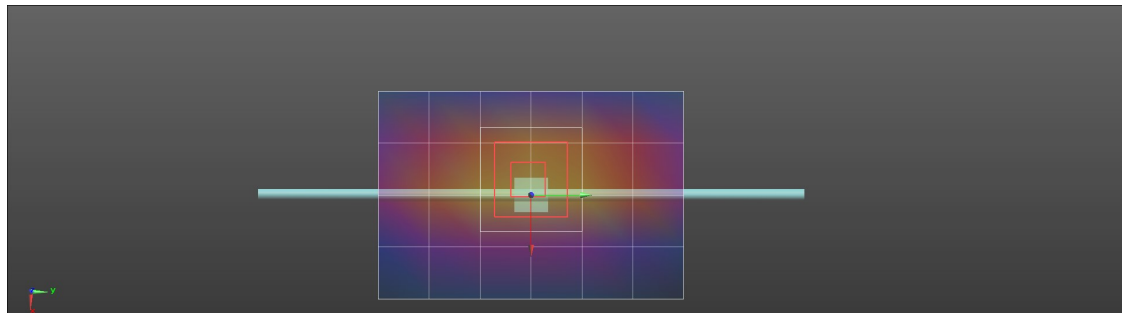
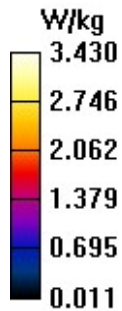
Reference Value = 53.05 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 3.76 W/kg

SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.62 W/kg

Ratio of SAR at M2 to SAR at M1 = 66.2%

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g 2 2/Z Scan (1x1x28): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D835V2 - SN4d075; Type: D835V2; Serial: SN4d075

Procedure Name: SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.97 \text{ S/m}$; $\epsilon_r = 40.13$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Date/Time: 3/12/2025 2:53:22 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.27, 8.89, 9.16) @ 835 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

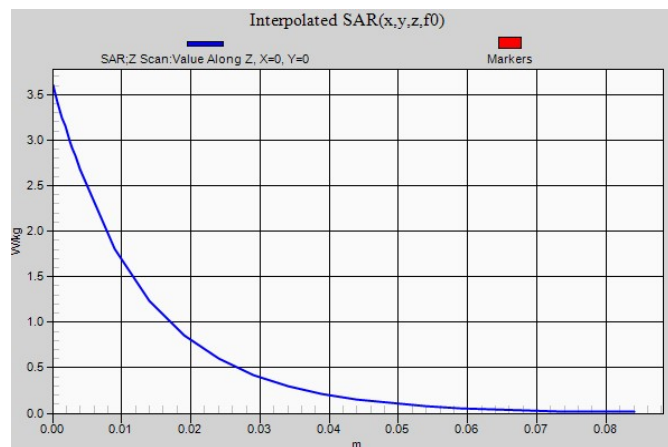
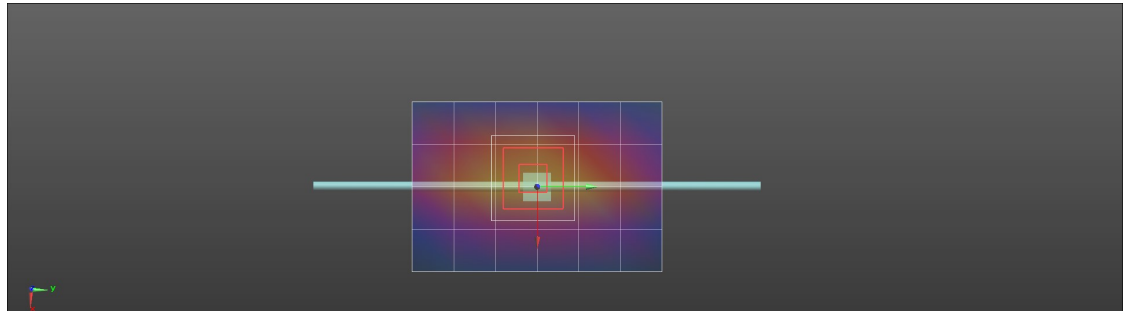
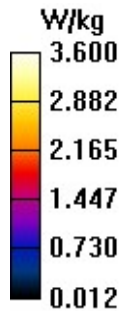
Reference Value = 53.48 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.82 W/kg

SAR(1 g) = 2.58 W/kg; SAR (10 g) 1.68 W/kg

Ratio of SAR at M2 to SAR at M1 = 67%

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_/Z Scan (1x1x28): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D450V3 - SN1068; Type: D450V3; Serial: SN1068

Procedure Name: SPC 450H, Input 250mW, Target 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481]

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.85$ S/m; $\epsilon_r = 45.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 3/17/2025 1:43:05 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(10.73, 10.73, 10.73) @ 450 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 450H, Input 250mW, Target 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481]/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 450H, Input 250mW, Target 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481]/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

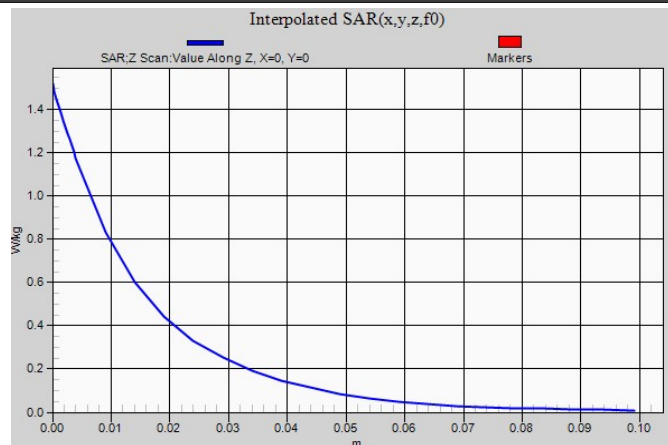
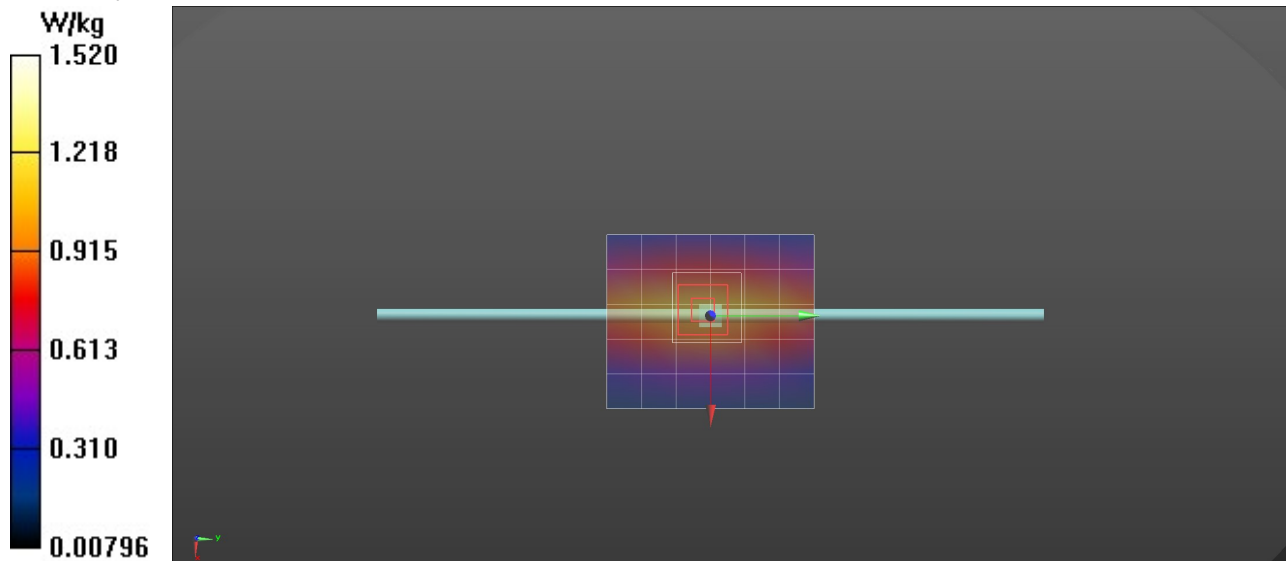
Reference Value = 37.23 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 1.1 W/kg; SAR (10 g) = 0.769 W/kg

Ratio of SAR at M2 to SAR at M1 = 70.9%

SPC/SPC 450H, Input 250mW, Target 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481]/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D2450V2 - SN825; Type: D2450V2; Serial: SN825

Procedure Name: SPC 2450H_Input=250mw, 1gTarget=[12.15]13.5][14.85]W/kg 10g Target=[5.68][6.32][6.95] 2

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ S/m; $\epsilon_r = 36.45$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 3/26/2025 9:33:23 AM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(7.5, 7.2, 7.38) @ 2450 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 2450H_Input=250mw, 1gTarget=[12.15]13.5][14.85]W/kg 10g Target=[5.68][6.32][6.95] 2/Area Scan (9x4x1): Measurement grid: dx=12mm, dy=12mm

SPC/SPC 2450H_Input=250mw, 1gTarget=[12.15]13.5][14.85]W/kg 10g Target=[5.68][6.32][6.95] 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.72 V/m; Power Drift = -0.12 dB

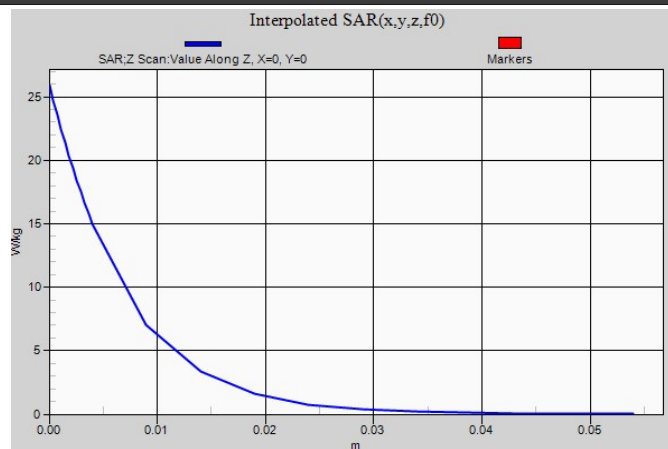
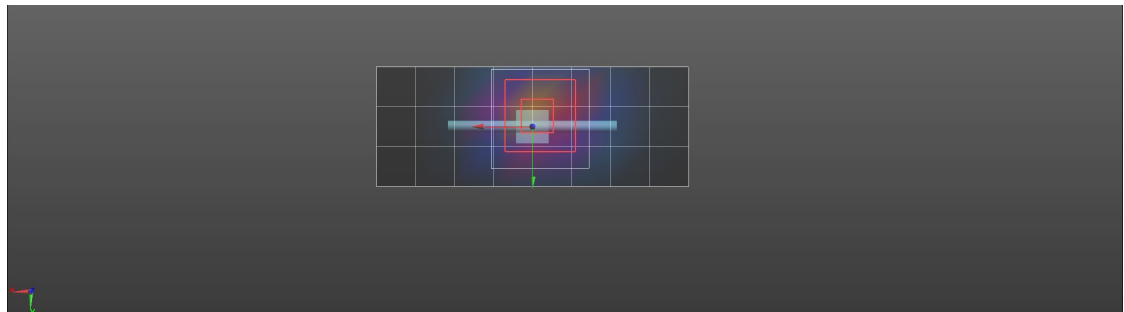
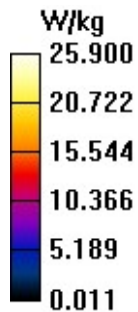
Peak SAR (extrapolated) = 32.5 W/kg

SAR(1 g) = 14.1 W/kg; SAR (10 g) = 6.45 W/kg

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.8%

SPC/SPC 2450H_Input=250mw, 1gTarget=[12.15]13.5][14.85]W/kg 10g Target=[5.68][6.32][6.95] 2/Z Scan (1x1x22): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D5GHzV2 - SN1031; Type: D5GHzV2; Serial: SN1031

Procedure Name: SPC 5250H Input=50 mw, Target= [3.71[4.12][4.53] Target=82.4W/kg@1000mw_ 2

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.47$ S/m; $\epsilon_r = 34.85$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 4/2/2025 3:28:45 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(5.53, 5.11, 5.33) @ 5250 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 5250H Input=50 mw, Target= [3.71[4.12][4.53] Target=82.4W/kg@1000mw_ 2/Area Scan (4x7x1): Measurement grid: dx=10mm, dy=10mm

SPC/SPC 5250H Input=50 mw, Target= [3.71[4.12][4.53] Target=82.4W/kg@1000mw_ 2/Zoom Scan (9x9x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 23.85 V/m; Power Drift = 0.59 dB

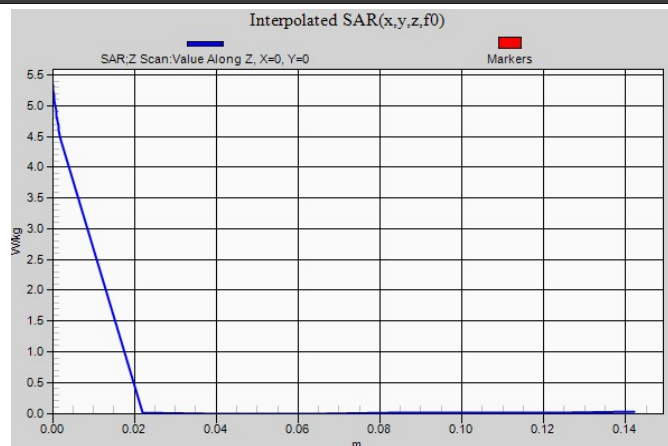
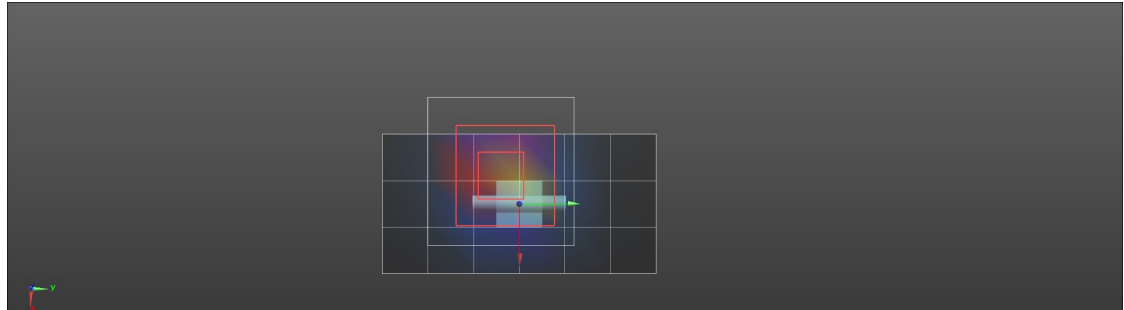
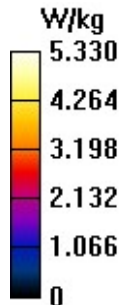
Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 3.95 W/kg; SAR (10 g) = 1.12 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 54%

SPC/SPC 5250H Input=50 mw, Target= [3.71[4.12][4.53] Target=82.4W/kg@1000mw_ 2/Z Scan (1x1x19): Measurement grid: dx=20mm, dy=20mm, dz=20mm



DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1031

Procedure Name: SPC 5750H Input=50mw, Target=[3.53][3.92][4.31], Target=78.6W/kg@1000 mw 2 3

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.24$ S/m; $\epsilon_r = 34.15$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 4/4/2025 10:51:54 AM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(4.91, 4.76, 4.89) @ 5750 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 5750H Input=50mw, Target=[3.53][3.92][4.31], Target=78.6W/kg@1000 mw 2 3/Area Scan (4x7x1): Measurement grid: dx=10mm, dy=10mm

SPC/SPC 5750H Input=50mw, Target=[3.53][3.92][4.31], Target=78.6W/kg@1000 mw 2 3/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 26.44 V/m; Power Drift = 0.35 dB

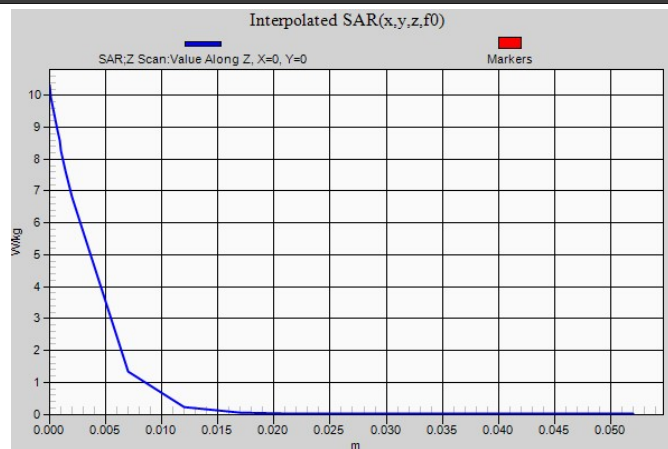
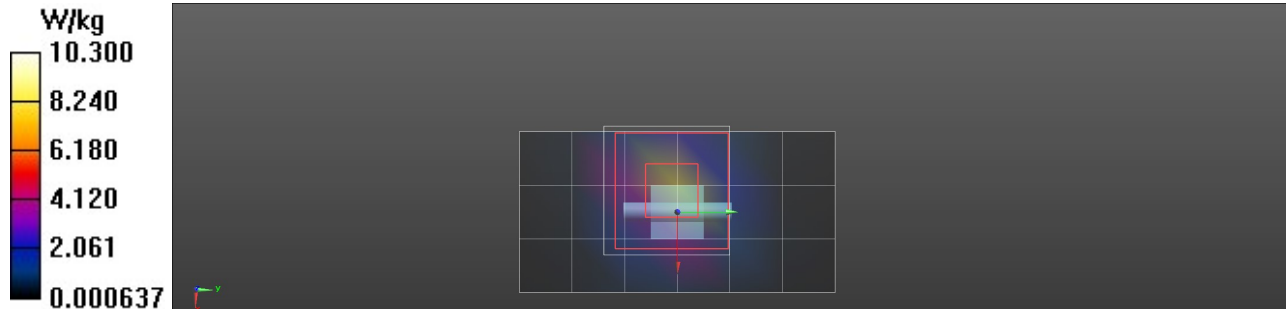
Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 3.94 W/kg; SAR(10 g) = 1.12 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

SPC/SPC 5750H Input=50mw, Target=[3.53][3.92][4.31], Target=78.6W/kg@1000 mw 2 3/Z Scan (1x1x22): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: CLA-150; Type: CLA-150; Serial: 4007

Procedure Name: SPC 150H Input=1.0W, 1g Target[3.53][3.93][4.32]W/kg 10g [2.35][2.61][2.87]W/kg

Communication System: UID 0, CW (0); Frequency: 150 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 150$ MHz; $\sigma = 0.76$ S/m; $\epsilon_r = 49.73$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 4/11/2025 12:21:31 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(12.01, 12.01, 12.01) @ 150 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 150H Input=1.0W, 1g Target[3.53][3.93][4.32]W/kg 10g [2.35][2.61][2.87]W/kg/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 150H Input=1.0W, 1g Target[3.53][3.93][4.32]W/kg 10g [2.35][2.61][2.87]W/kg/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

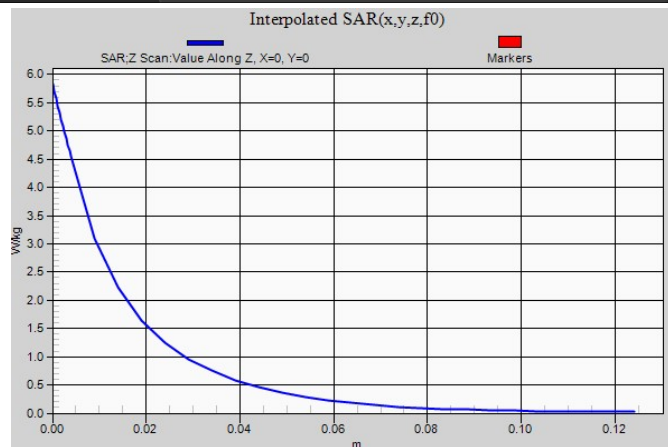
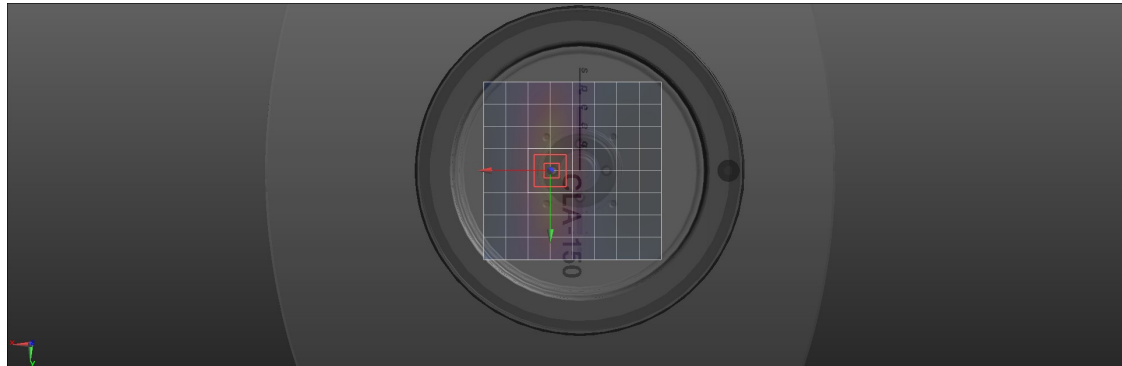
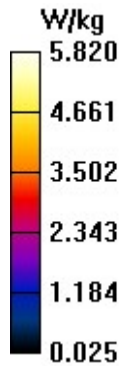
Reference Value = 76.13 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 6.07 W/kg

SAR(1 g) = 3.96 W/kg; SAR(10 g) = 2.64 W/kg

Ratio of SAR at M2 to SAR at M1 = 68%

SPC/SPC 150H Input=1.0W, 1g Target[3.53][3.93][4.32]W/kg 10g [2.35][2.61][2.87]W/kg/Z Scan (1x1x36): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D835V2 - SN4d075; Type: D835V2; Serial: SN4d075

Procedure Name: SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_2

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Date/Time: 4/15/2025 1:12:15 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.27, 8.89, 9.16) @ 835 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_2/Area Scan (7x5x1): Measurement grid:
dx=15mm, dy=15mm

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

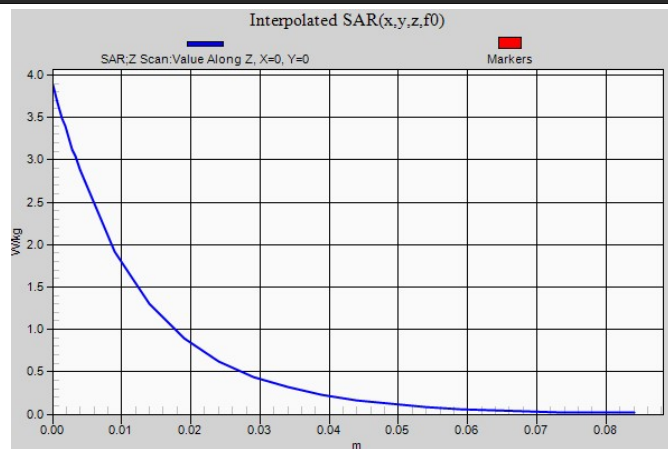
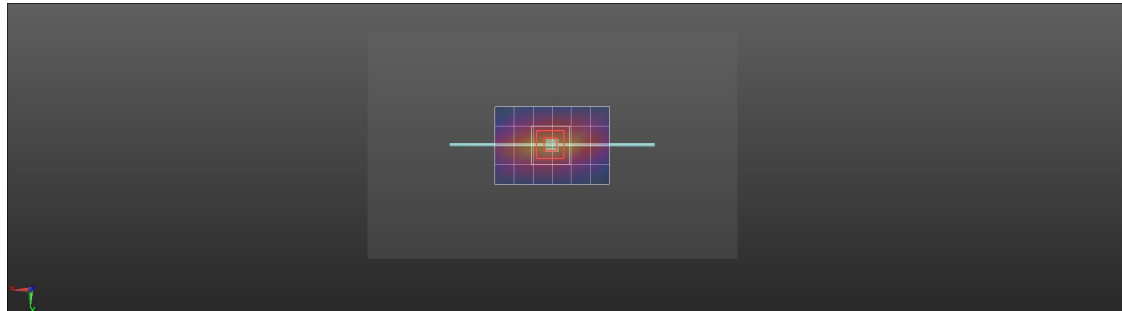
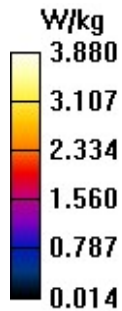
Reference Value = 55.02 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.92 W/kg

SAR(1 g) = 2.65 W/kg; SAR(10 g) = 1.73 W/kg

Ratio of SAR at M2 to SAR at M1 = 66.8%

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_2/Z Scan (1x1x28): Measurement grid:
dx=20mm, dy=20mm, dz=5mm



DUT: Dipole 2600 MHz ALS-D-2600-S-2; Type: D2600V2; Serial: ALS-D-2600-S-2 - SN:22500906

Procedure Name: SPC/SPC 2600H Input=1W, Target=[55.95][25.022]W/kg 250mw 1g [12.59][13.99][15.39] 10g [5.63][6.26][6.88]

Communication System: UID 0, CW (0); Communication System Band: FullSpan (0.0 - 6000.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.1$ S/m; $\epsilon_r = 41.72$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY5

DASY Configuration:

- Probe: EX3DV4 - SN7826; ConvF(7.36, 7.06, 7.23) @ 2600 MHz; Calibrated: 5/15/2024
 - Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -1.5, 31.0, 151.0$
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

SPC/SPC 2600H Input=1W, Target=[55.95][25.022]W/kg 250mw 1g [12.59][13.99][15.39] 10g [5.63][6.26][6.88]/Area Scan (4x9x1):

Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 13.6 W/kg

SPC/SPC 2600H Input=1W, Target=[55.95][25.022]W/kg 250mw 1g [12.59][13.99][15.39] 10g [5.63][6.26][6.88]/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 66.30 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 29.0 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.15 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.8%

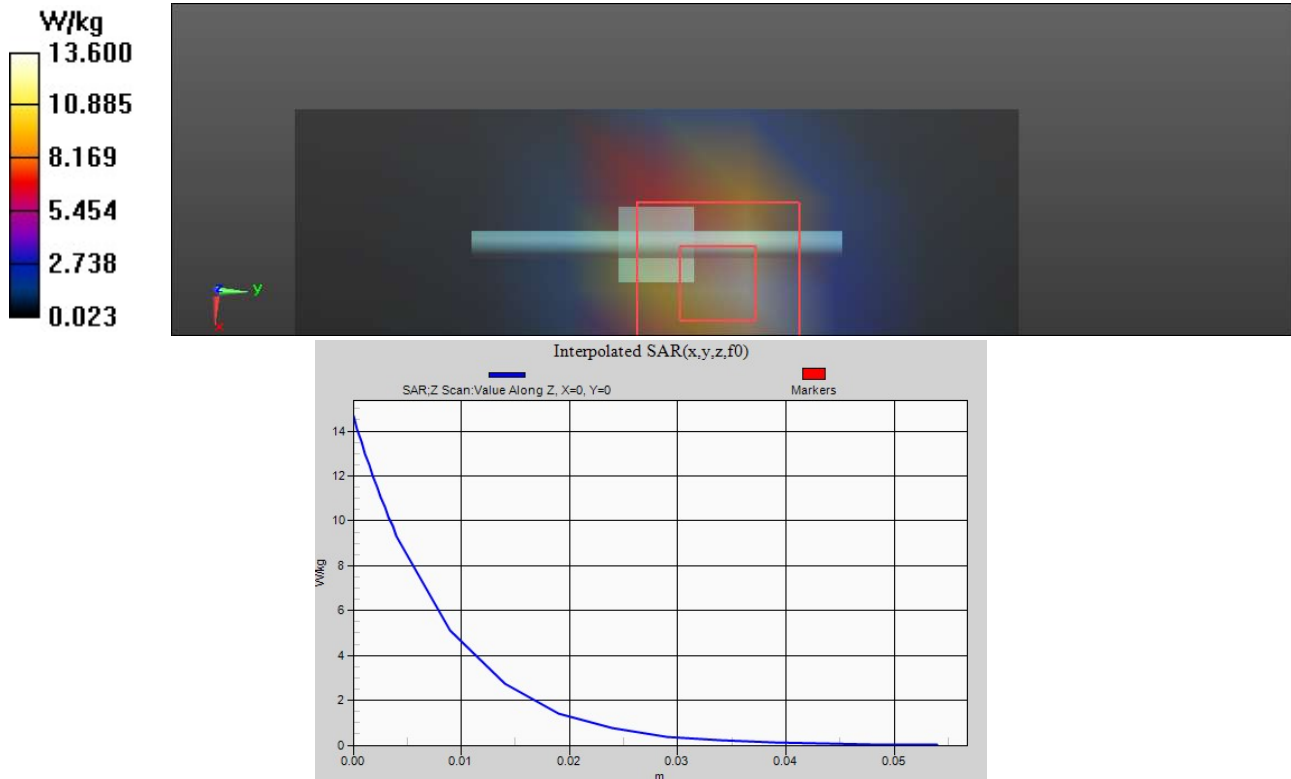
Maximum value of SAR (measured) = 15.7 W/kg

SPC/SPC 2600H Input=1W, Target=[55.95][25.022]W/kg 250mw 1g [12.59][13.99][15.39] 10g [5.63][6.26][6.88]/Z Scan (1x1x22):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm

Penetration depth = 7.936 (8.305, 7.714) [mm]

Maximum value of SAR (interpolated) = 14.7 W/kg



DUT: Dipole 2300 MHz ALS-D-2300-S-2; Type: D2300V3; Serial: ALS-D-2300-S-2 - SN:218-00201
Procedure Name: SPC 2300H Input=1W, Target 1g 50.16W/kg 10g 24.30W/kg; 250mW 1g [11.29][12.54] W/kg 10g [5.47][6.075][6.68] W/kg

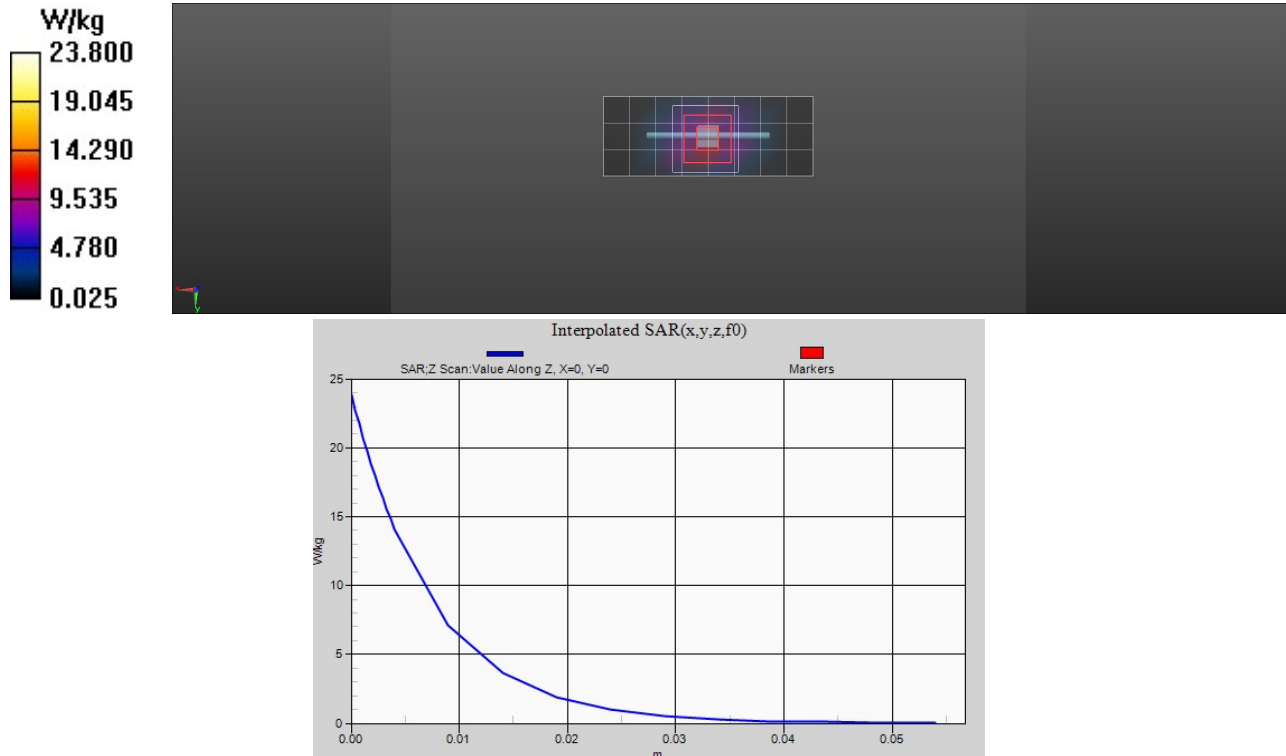
Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2300$ MHz; $\sigma = 1.67$ S/m; $\epsilon_r = 37.69$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Date/Time: 4/25/2025 10:47:01 AM
DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(7.62, 7.3, 7.48) @ 2300 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 2300H Input=1W, Target 1g 50.16W/kg 10g 24.30W/kg; 250mW 1g [11.29][12.54] W/kg 10g [5.47][6.075][6.68] W/kg/Area Scan (9x4x1): Measurement grid: dx=12mm, dy=12mm

SPC/SPC 2300H Input=1W, Target 1g 50.16W/kg 10g 24.30W/kg; 250mW 1g [11.29][12.54] W/kg 10g [5.47][6.075][6.68] W/kg/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 92.01 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 25.5 W/kg
SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.69 W/kg
Smallest distance from peaks to all points 3 dB below = 10 mm
Ratio of SAR at M2 to SAR at M1 = 50.2%

SPC/SPC 2300H Input=1W, Target 1g 50.16W/kg 10g 24.30W/kg; 250mW 1g [11.29][12.54] W/kg 10g [5.47][6.075][6.68] W/kg/Z Scan (1x1x22): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d107
Procedure Name: SPC 1900H Input=250mW, Target=1g [8.84] [9.825][10.81]10g [4.6][5.11][5.62]W/kg

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 38.79$; $\rho = 1000$ kg/m³

Phantom section: Left Section
Date/Time: 4/29/2025 1:58:30 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(8.06, 7.73, 7.92) @ 1800 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 1900H Input=250mW, Target=1g [8.84] [9.825][10.81]10g [4.6][5.11][5.62]W/kg/Area Scan (4x4x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 1900H Input=250mW, Target=1g [8.84] [9.825][10.81]10g [4.6][5.11][5.62]W/kg/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 89.47 V/m; Power Drift = 0.02 dB

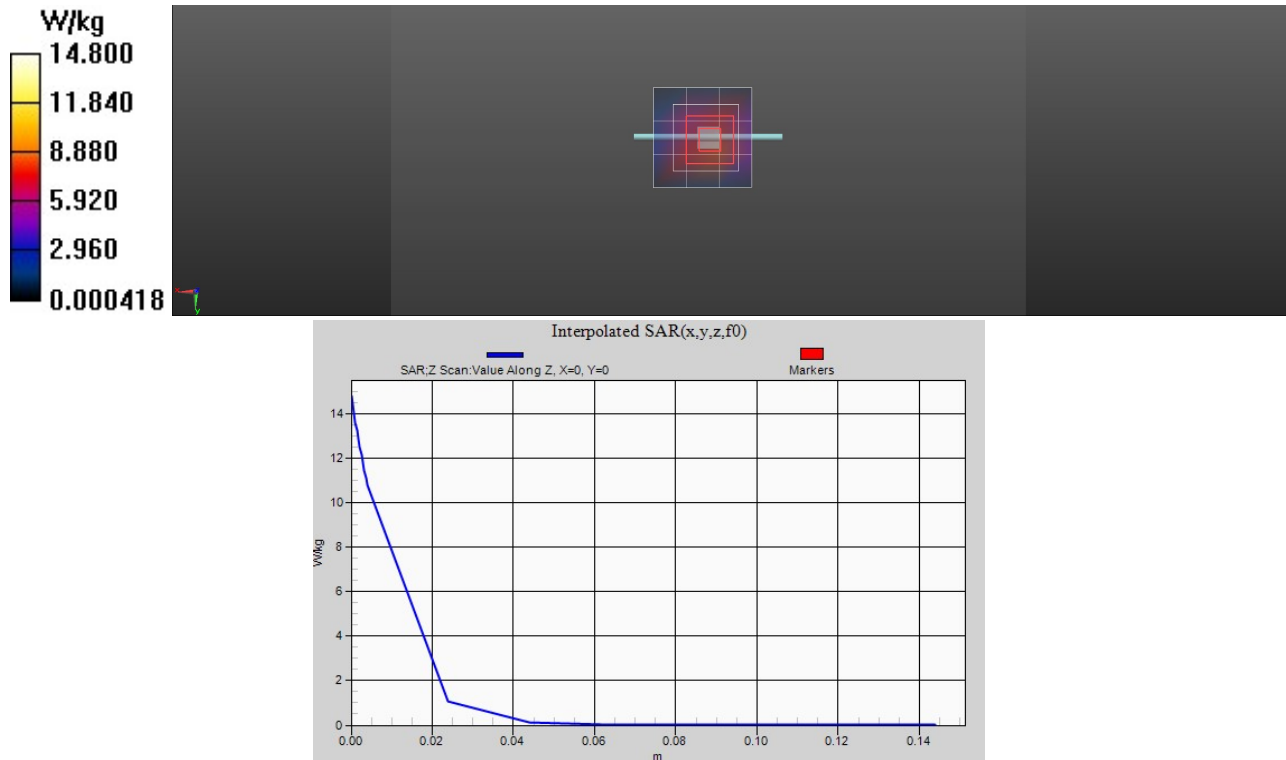
Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 9.61 W/kg; SAR(10 g) = 4.95 W/kg

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 54.2%

SPC/SPC 1900H Input=250mW, Target=1g [8.84] [9.825][10.81]10g [4.6][5.11][5.62]W/kg/Z Scan (1x1x19): Measurement grid: dx=20mm, dy=20mm, dz=20mm



DUT: Dipole 1800 MHz D1800V2; Type: D1800V2; Serial: D1800V2 - SN:247

Procedure Name: SPC 1800H Input=250mW, Target 1g [8.86][9.845][10.83] 10g [4.21][5.105][54.62]W/kg 2

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 37.78$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Date/Time: 4/30/2025 5:01:05 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(8.06, 7.73, 7.92) @ 1800 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 1800H Input=250mW, Target 1g [8.86][9.845][10.83] 10g [4.21][5.105][54.62]W/kg 2/Area Scan (4x4x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 1800H Input=250mW, Target 1g [8.86][9.845][10.83] 10g [4.21][5.105][54.62]W/kg 2/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 87.75 V/m; Power Drift = 0.01 dB

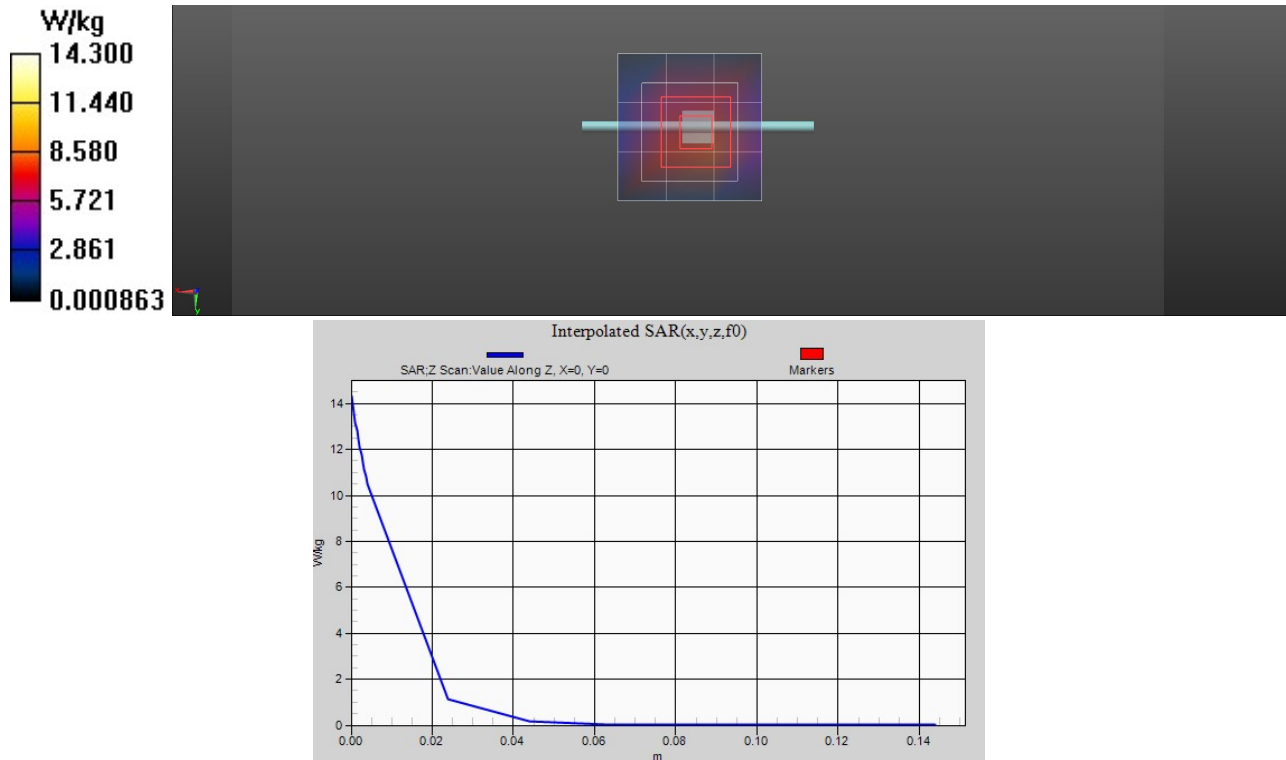
Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 9.38 W/kg; SAR(10 g) = 4.92 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%

SPC/SPC 1800H Input=250mW, Target 1g [8.86][9.845][10.83] 10g [4.21][5.105][54.62]W/kg 2/Z Scan (1x1x19): Measurement grid: dx=20mm, dy=20mm, dz=20mm



DUT: D3700V2 - SN1145; Type: D3700V2; Serial: SN1145

Procedure Name: SPC 3700H Input=100 mw, 1g Target= [6.19][6.88][7.57], 10g [2.28][2.53][2.78] Target=68.8 & 25.3W/kg@1000mw

Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700$ MHz; $\sigma = 3.33$ S/m; $\epsilon_r = 35.17$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Date/Time: 5/24/2025 2:57:29 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(6.67, 6.25, 6.47) @ 3700 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 3700H Input=100 mw, 1g Target= [6.19][6.88][7.57], 10g [2.28][2.53][2.78] Target=68.8 & 25.3W/kg@1000mw/Area Scan (6x3x1): Measurement grid: dx=12mm, dy=12mm

SPC/SPC 3700H Input=100 mw, 1g Target= [6.19][6.88][7.57], 10g [2.28][2.53][2.78] Target=68.8 & 25.3W/kg@1000mw/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 49.02 V/m; Power Drift = -0.22 dB

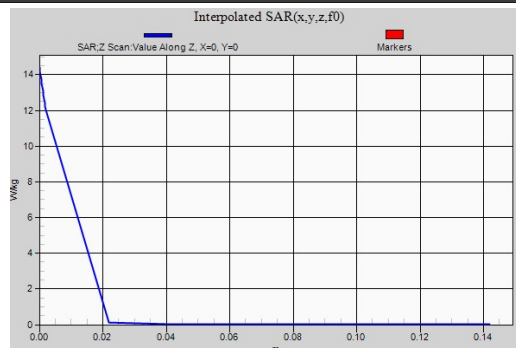
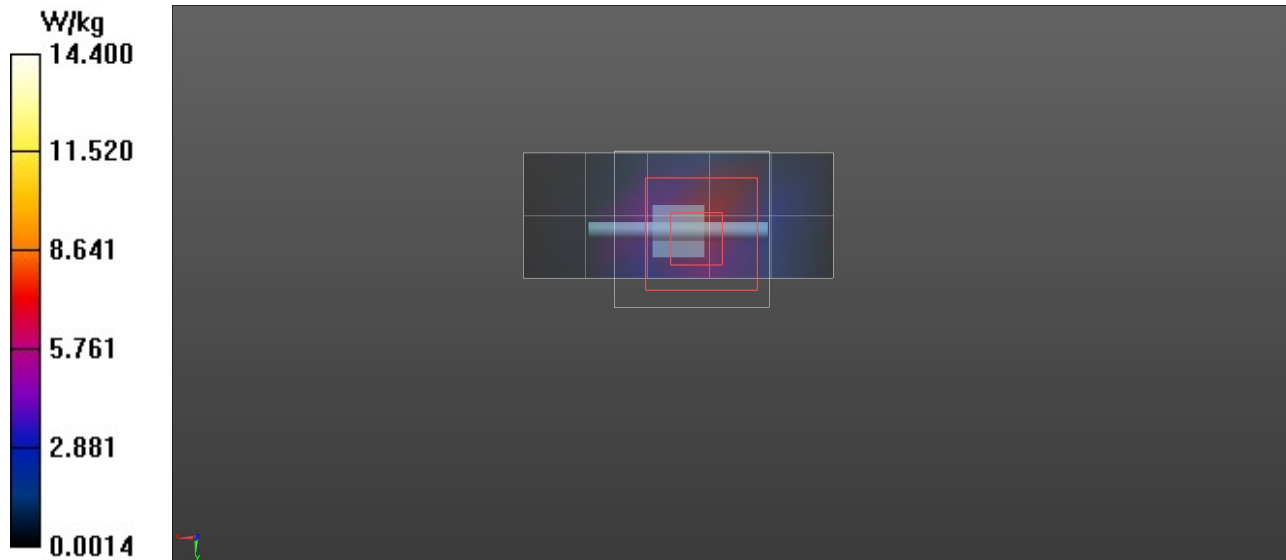
Peak SAR (extrapolated) = 22.2 W/kg

SAR(1 g) = 7.28 W/kg; SAR(10 g) = 2.55 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 38.9%

SPC/SPC 3700H Input=100 mw, 1g Target= [6.19][6.88][7.57], 10g [2.28][2.53][2.78] Target=68.8 & 25.3W/kg@1000mw/Z Scan (1x1x19): Measurement grid: dx=20mm, dy=20mm, dz=20mm



DUT: D835V2 - SN4d075; Type: D835V2; Serial: SN4d075

Procedure Name: SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_2 2

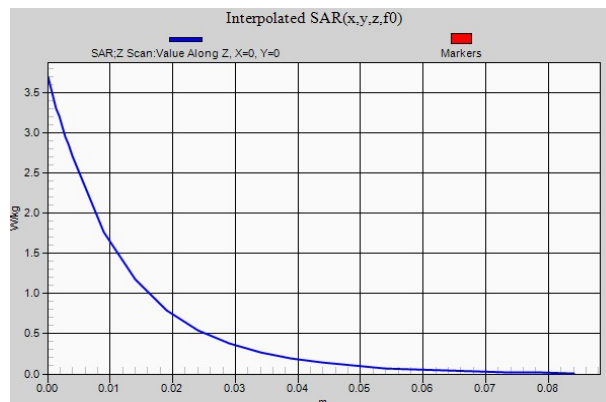
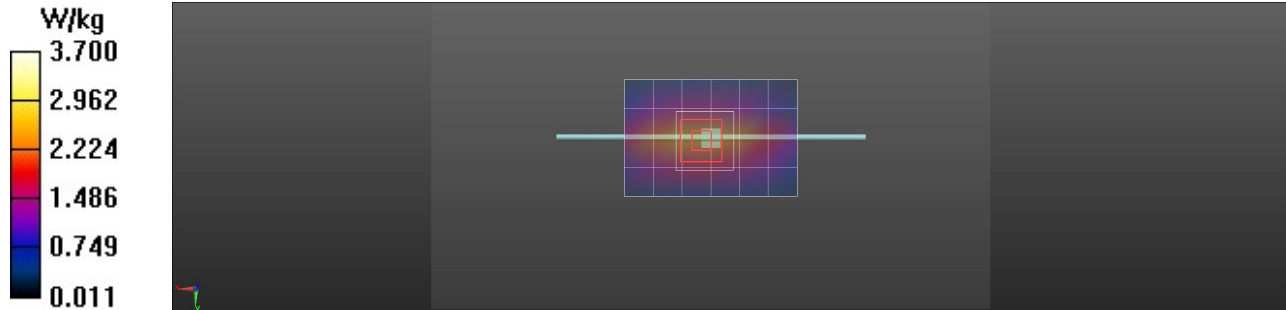
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 38.55$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Date/Time: 5/26/2025 3:09:51 PM
DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.28, 8.7, 9) @ 835 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_2 2/Area Scan (7x5x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_2 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 54.32 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.57 W/kg
Ratio of SAR at M2 to SAR at M1 = 64.7%

SPC/SPC 835H, Input 250mW Target=[2.214 - 2.46 - 2.706]1g, [1.44 - 1.60 - 1.76]10g_2 2/Z Scan (1x1x28): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1061
Procedure Name: SPC 750H,Target=[2.01][2.23] [2.45] W/kg,Input_24dBm (251.19mW)

Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 750$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 41.94$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Date/Time: 5/29/2025 4:29:30 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.7, 9.09, 9.41) @ 750 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 750H,Target=[2.01][2.23] [2.45] W/kg,Input_24dBm (251.19mW)/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 750H,Target=[2.01][2.23] [2.45] W/kg,Input_24dBm (251.19mW)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

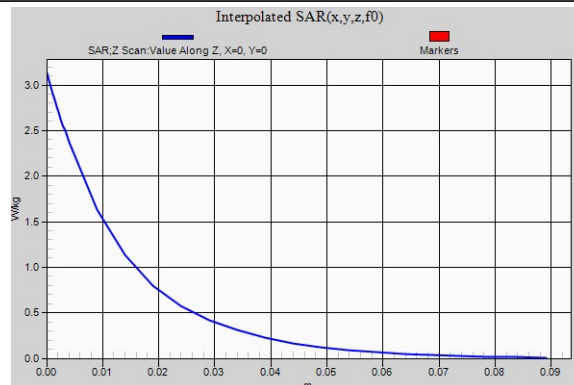
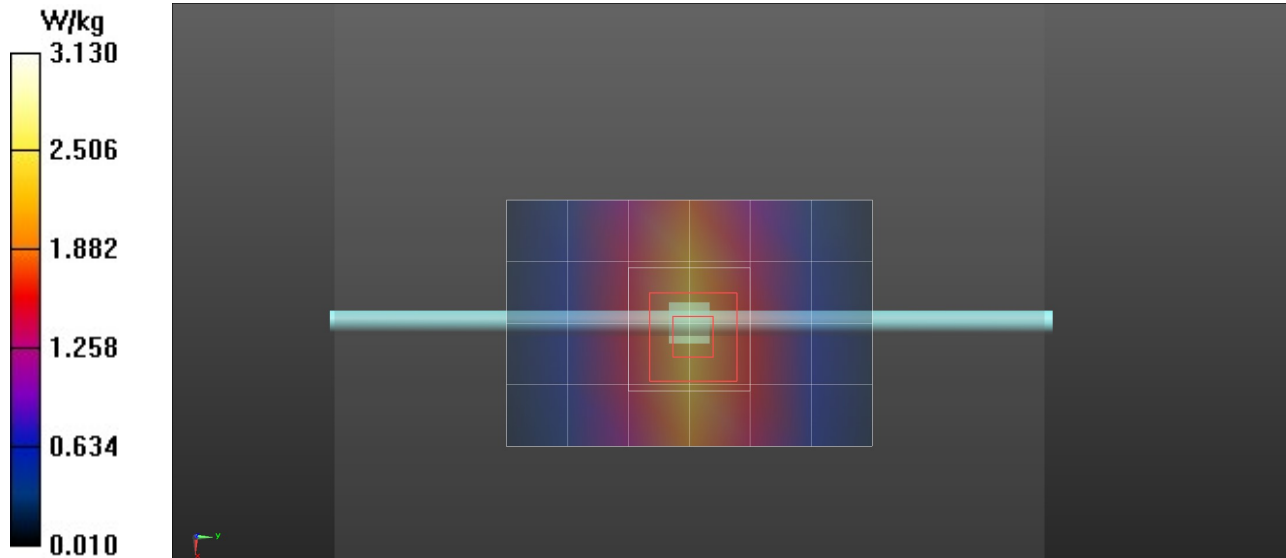
Reference Value = 52.28 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.47 W/kg

Ratio of SAR at M2 to SAR at M1 = 68.4%

SPC/SPC 750H,Target=[2.01][2.23] [2.45] W/kg,Input_24dBm (251.19mW)/Z Scan (1x1x29): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D450V3 - SN1068; Type: D450V3; Serial: SN1068

Procedure Name: SPC 450H, Input 250mW, Taget 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481] 2

Communication System: UID 0, CW (0); Frequency: 450 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.83$ S/m; $\epsilon_r = 46.71$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 6/2/2025 2:22:07 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(10.55, 10.55, 10.55) @ 450 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 450H, Input 250mW, Taget 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481] 2/Area Scan (6x7x1):

Measurement grid: dx=15mm, dy=15mm

SPC/SPC 450H, Input 250mW, Taget 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481] 2/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 38.42 V/m; Power Drift = 0.05 dB

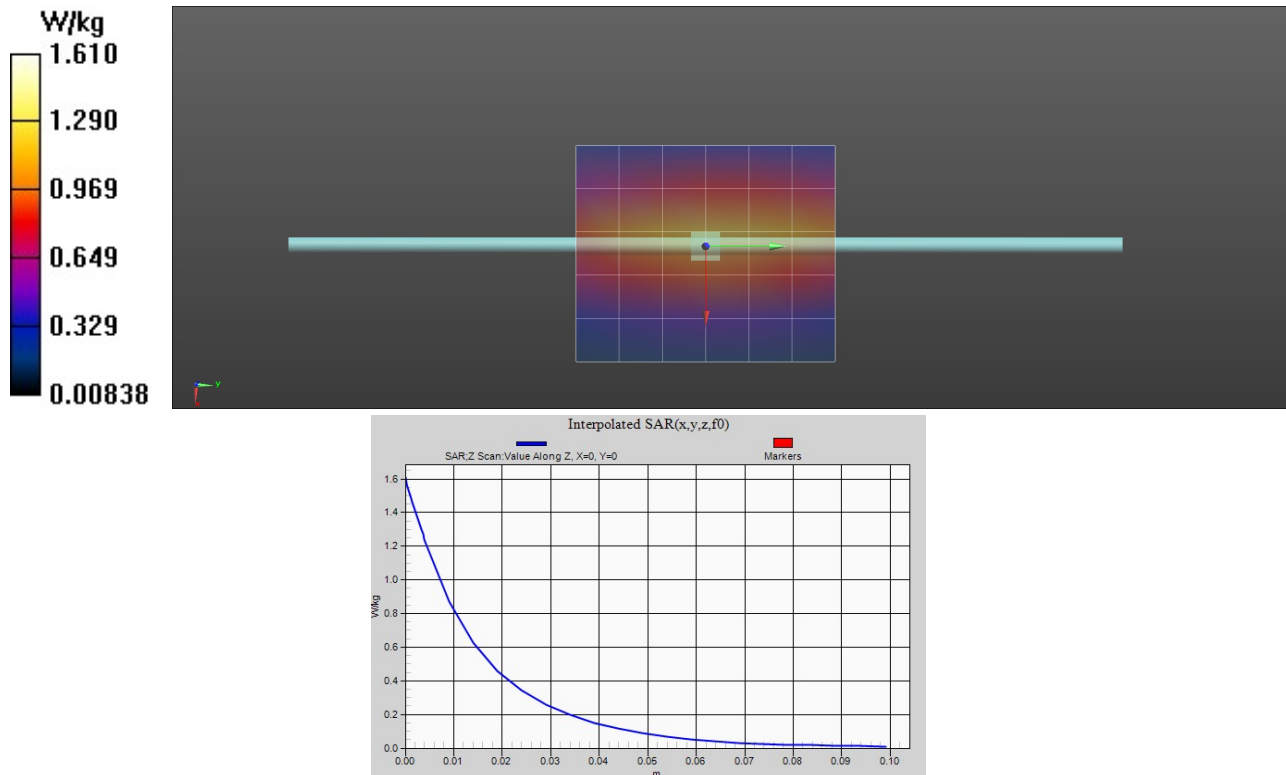
Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.81 W/kg

Ratio of SAR at M2 to SAR at M1 = 70%

SPC/SPC 450H, Input 250mW, Taget 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481] 2/Z Scan (1x1x31): Measurement

grid: dx=20mm, dy=20mm, dz=5mm



DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d075
Procedure Name: SPC - 835H Input=1000mw, Target=[9.75]W/kg

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.99 \text{ S/m}$; $\epsilon_r = 38.82$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Date/Time: 6/5/2025 5:18:44 PM
DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.28, 8.7, 9) @ 835 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SYSVAL/SPC - 835H Input=1000mw, Target=[9.75]W/kg/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

SYSVAL/SPC - 835H Input=1000mw, Target=[9.75]W/kg/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

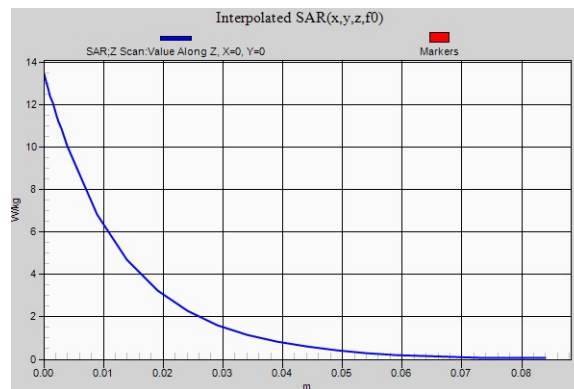
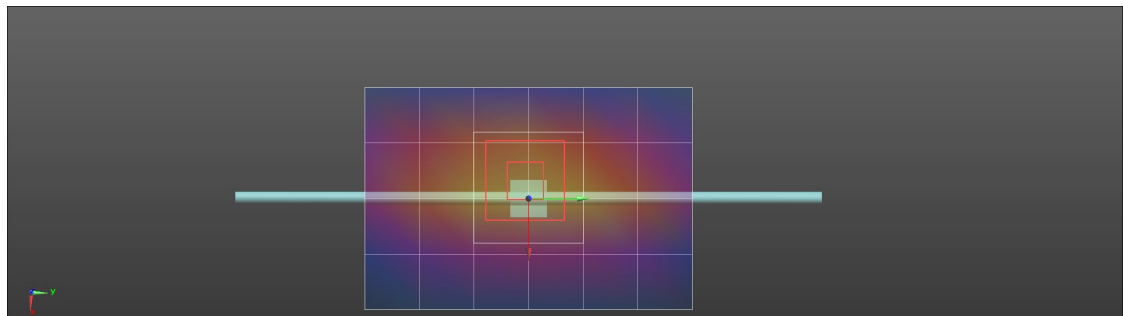
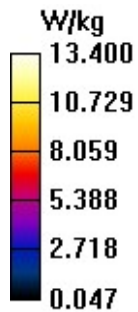
Reference Value = 101.2 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 14.3 W/kg

SAR(1 g) = 9.71 W/kg; SAR(10 g) = 6.35 W/kg

Ratio of SAR at M2 to SAR at M1 = 67.4%

SYSVAL/SPC - 835H Input=1000mw, Target=[9.75]W/kg/Z Scan (1x1x28): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D450V3 - SN1068; Type: D450V3; Serial: SN1068

Procedure Name: SPC 450H, Input 250mW, Taget 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481]_

Communication System: UID 0, CW (0); Frequency: 450 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 45.57$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 6/6/2025 5:50:37 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(10.55, 10.55, 10.55) @ 450 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 450H, Input 250mW, Taget 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481]_Area Scan (6x7x1):

Measurement grid: dx=15mm, dy=15mm

SPC/SPC 450H, Input 250mW, Taget 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481]_Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.55 V/m; Power Drift = 0.10 dB

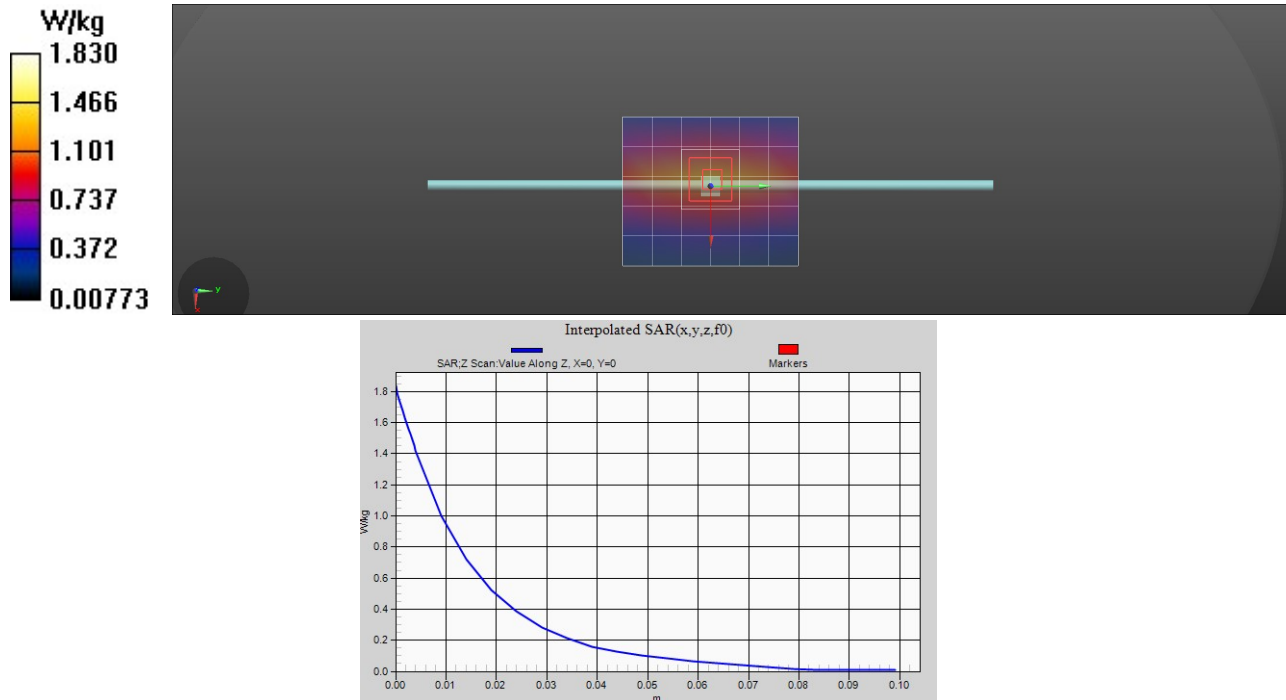
Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.804 W/kg

Ratio of SAR at M2 to SAR at M1 = 70.1%

SPC/SPC 450H, Input 250mW, Taget 1g[1.035][1.15][1.32385] W/kg_ 10g [0.6939] [0.771] [0.8481]_Z Scan (1x1x31): Measurement

grid: dx=20mm, dy=20mm, dz=5mm



DUT: CLA-150; Type: CLA-150; Serial: 4007

Procedure Name: SPC 150H Input=1.0W, 1g Target[3.53][3.93][4.32]W/kg 10g [2.35][2.61][2.87]W/kg 2

Communication System: UID 0, CW (0); Frequency: 150 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 150$ MHz; $\sigma = 0.71$ S/m; $\epsilon_r = 52.96$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Date/Time: 6/7/2025 11:09:21 AM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(12.42, 11.34, 11.98) @ 150 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 150H Input=1.0W, 1g Target[3.53][3.93][4.32]W/kg 10g [2.35][2.61][2.87]W/kg 2/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

SPC/SPC 150H Input=1.0W, 1g Target[3.53][3.93][4.32]W/kg 10g [2.35][2.61][2.87]W/kg 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

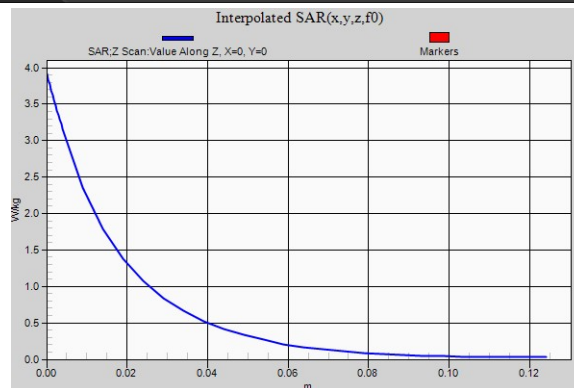
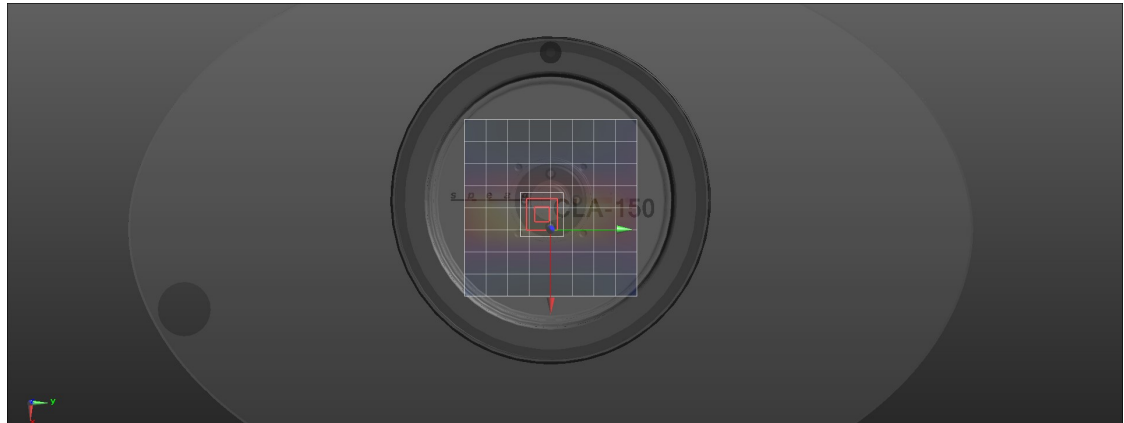
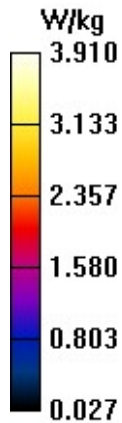
Reference Value = 69.02 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 5.97 W/kg

SAR(1 g) = 3.9 W/kg; SAR(10 g) = 2.61 W/kg

Ratio of SAR at M2 to SAR at M1 = 68%

SPC/SPC 150H Input=1.0W, 1g Target[3.53][3.93][4.32]W/kg 10g [2.35][2.61][2.87]W/kg 2/Z Scan (1x1x36): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D5GHzV2 - SN1031; Type: D5GHzV2; Serial: SN1031

Procedure Name: SPC 5250H Input=50 mw, Target= [3.71[4.12][4.53] Target=82.4W/kg@1000mw

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.44$ S/m; $\epsilon_r = 34.84$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Date/Time: 6/9/2025 12:09:56 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(5.82, 5.45, 5.65) @ 5250 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 5250H Input=50 mw, Target= [3.71[4.12][4.53] Target=82.4W/kg@1000mw/Area Scan (4x7x1): Measurement grid: dx=10mm, dy=10mm

SPC/SPC 5250H Input=50 mw, Target= [3.71[4.12][4.53] Target=82.4W/kg@1000mw/Zoom Scan (9x9x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 31.03 V/m; Power Drift = 0.02 dB

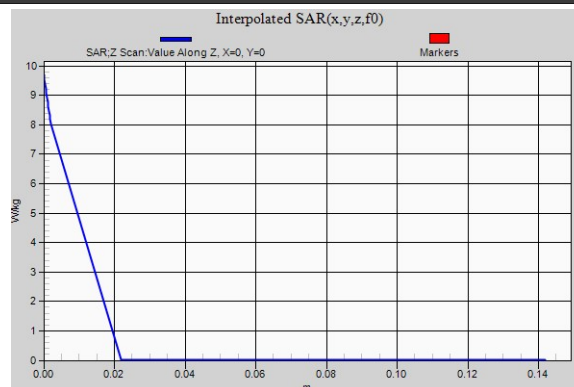
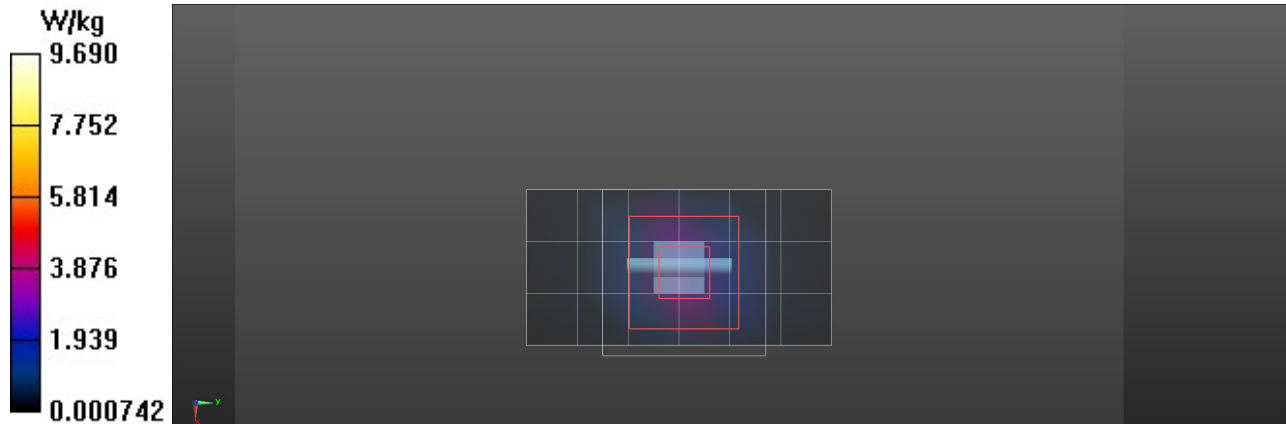
Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 3.92 W/kg; SAR(10 g) = 1.12 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

SPC/SPC 5250H Input=50 mw, Target= [3.71[4.12][4.53] Target=82.4W/kg@1000mw/Z Scan (1x1x19): Measurement grid: dx=20mm, dy=20mm, dz=20mm



DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1031

Procedure Name: SPC 5750H Input=50mw, Target=[3.53][3.92][4.31], Target=78.6W/kg@1000 mw_

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5750$ MHz; $\sigma = 5.27$ S/m; $\epsilon_r = 33.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Date/Time: 6/9/2025 4:47:16 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(5.33, 5, 5.17) @ 5750 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 5750H Input=50mw, Target=[3.53][3.92][4.31], Target=78.6W/kg@1000 mw_/Area Scan (4x7x1): Measurement grid: dx=10mm, dy=10mm

SPC/SPC 5750H Input=50mw, Target=[3.53][3.92][4.31], Target=78.6W/kg@1000 mw_/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 26.40 V/m; Power Drift = 0.08 dB

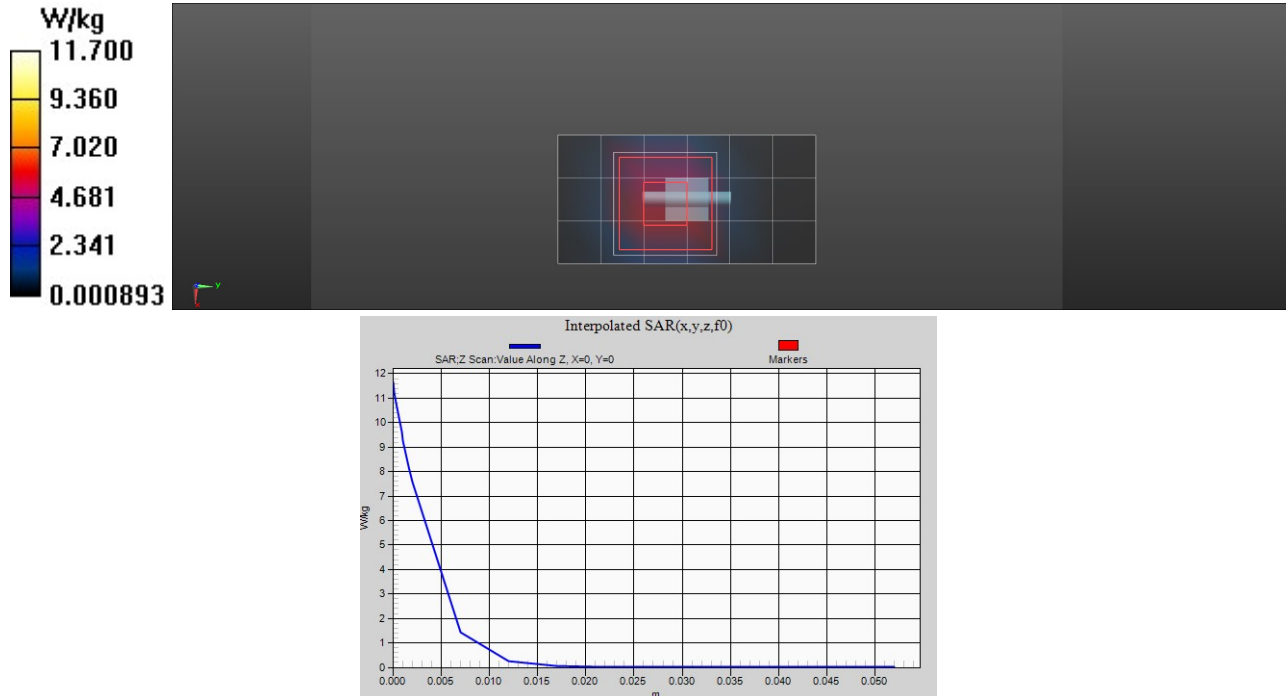
Peak SAR (extrapolated) = 20.3 W/kg

SAR(1 g) = 3.93 W/kg; SAR(10 g) = 1.11 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 49.8%

SPC/SPC 5750H Input=50mw, Target=[3.53][3.92][4.31], Target=78.6W/kg@1000 mw_/Z Scan (1x1x22): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: Dipole 2600 MHz ALS-D-2600-S-2; Type: D2600V2; Serial: ALS-D-2600-S-2 - SN:22500906

Procedure Name: SPC 2600H Input=1W, Target=[55.95][25.022]W/kg 250mw 1g [12.59][13.99][15.39] 10g [5.63][6.26][6.88] 2

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.12$ S/m; $\epsilon_r = 37.21$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Date/Time: 6/10/2025 10:33:49 AM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(7.47, 7, 7.24) @ 2600 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 2600H Input=1W, Target=[55.95][25.022]W/kg 250mw 1g [12.59][13.99][15.39] 10g [5.63][6.26][6.88] 2/Area Scan (4x9x1):
Measurement grid: dx=12mm, dy=12mm

SPC/SPC 2600H Input=1W, Target=[55.95][25.022]W/kg 250mw 1g [12.59][13.99][15.39] 10g [5.63][6.26][6.88] 2/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 85.39 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 33.1 W/kg

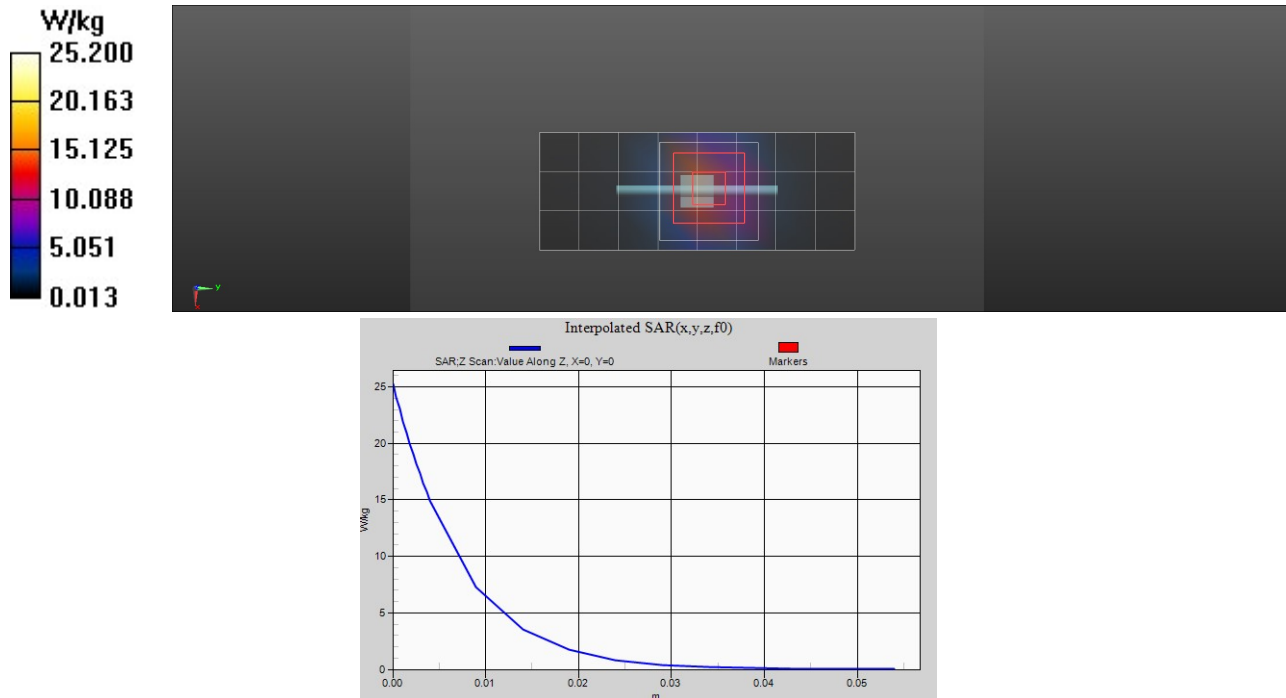
SAR(1 g) = 15 W/kg SAR(10 g) = 6.49 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 46.5%

SPC/SPC 2600H Input=1W, Target=[55.95][25.022]W/kg 250mw 1g [12.59][13.99][15.39] 10g [5.63][6.26][6.88] 2/Z Scan (1x1x22):

Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: D2450V2 - SN825; Type: D2450V2; Serial: SN825

Procedure Name: SPC 2450H_Input=250mw, 1gTarget=[12.15]13.5][14.85]W/kg 10g Target=[5.68][6.32][6.95] 2

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.91$ S/m; $\epsilon_r = 37.08$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Date/Time: 6/10/2025 5:02:56 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(7.51, 7.04, 7.28) @ 2450 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

SPC/SPC 2450H_Input=250mw, 1gTarget=[12.15]13.5][14.85]W/kg 10g Target=[5.68][6.32][6.95] 2/Area Scan (9x4x1): Measurement grid: dx=12mm, dy=12mm

SPC/SPC 2450H_Input=250mw, 1gTarget=[12.15]13.5][14.85]W/kg 10g Target=[5.68][6.32][6.95] 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.91 V/m; Power Drift = 0.01 dB

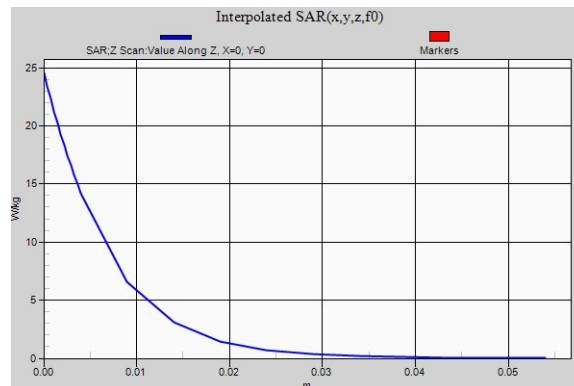
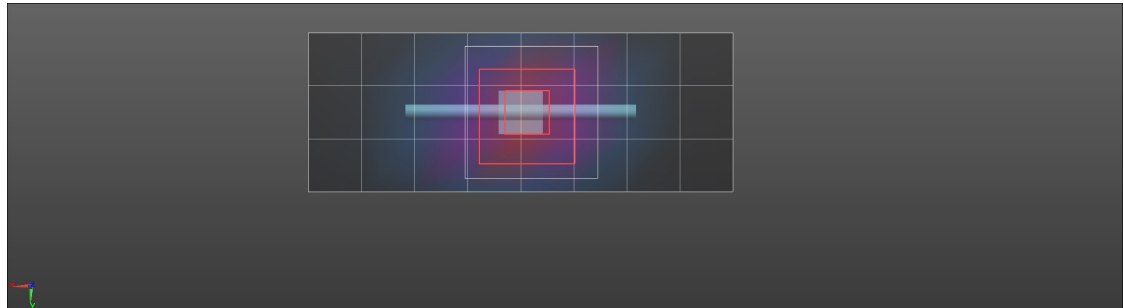
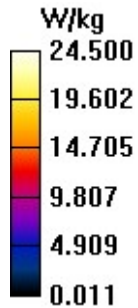
Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 12.6 W/kg SAR(10 g) = 5.65 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 46.1%

SPC/SPC 2450H_Input=250mw, 1gTarget=[12.15]13.5][14.85]W/kg 10g Target=[5.68][6.32][6.95] 2/Z Scan (1x1x22): Measurement grid: dx=20mm, dy=20mm, dz=5mm



DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d075
Procedure Name: SPC 835H 29 Sep 2025

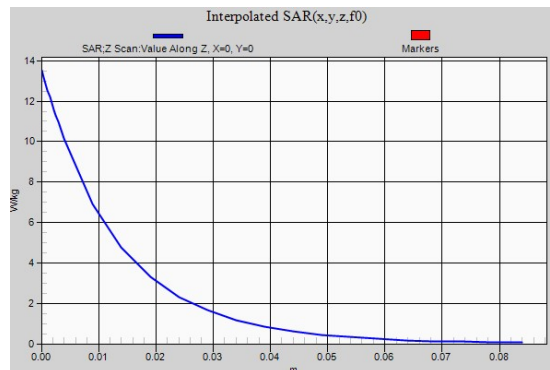
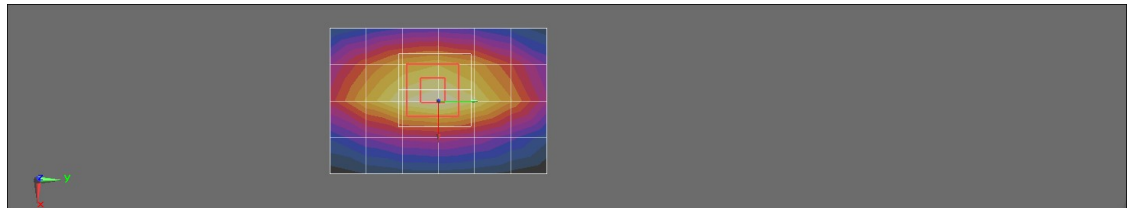
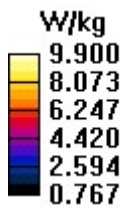
Communication System: UID 0, CW (0); Frequency: 835 MHz
Medium parameters used: $f = 835$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 39.04$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Date/Time: 9/29/2025 5:16:38 PM
Measurement Standard: DASY5
DASY Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.28, 8.7, 9) @ 835 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -1.5, 31.0, 151.0$
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

SYVAL/SPC - 835H Input=1000mw, Targe $1g=[9.75]$ W/kg [8.775][9.75][10.725]; $10g=6.34$ W/kg [5.706][6.34][6.974] 2/Area Scan (5x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 9.90 W/kg

SYVAL/SPC - 835H Input=1000mw, Targe $1g=[9.75]$ W/kg [8.775][9.75][10.725]; $10g=6.34$ W/kg [5.706][6.34][6.974] 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
Reference Value = 103.8 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 14.6 W/kg
SAR(1 g) = 9.88 W/kg; SAR(10 g) = 6.47 W/kg
Ratio of SAR at M2 to SAR at M1 = 66.9%
Maximum value of SAR (measured) = 10.7 W/kg

SYVAL/SPC - 835H Input=1000mw, Targe $1g=[9.75]$ W/kg [8.775][9.75][10.725]; $10g=6.34$ W/kg [5.706][6.34][6.974] 2/Z Scan (1x1x28): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm
Penetration depth = 13.31 (13.03, 13.78) [mm]
Maximum value of SAR (interpolated) = 13.5 W/kg



DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1061
Procedure Name: SPC-750H Oct 1 2025

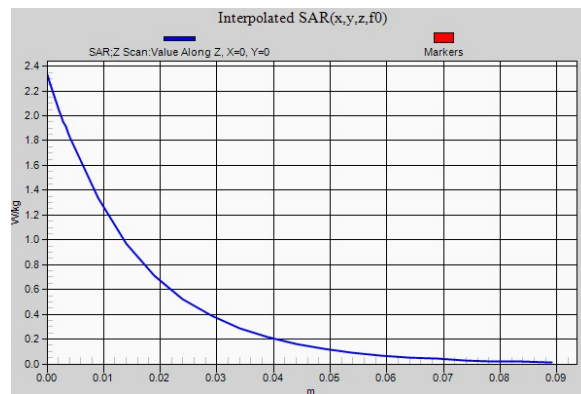
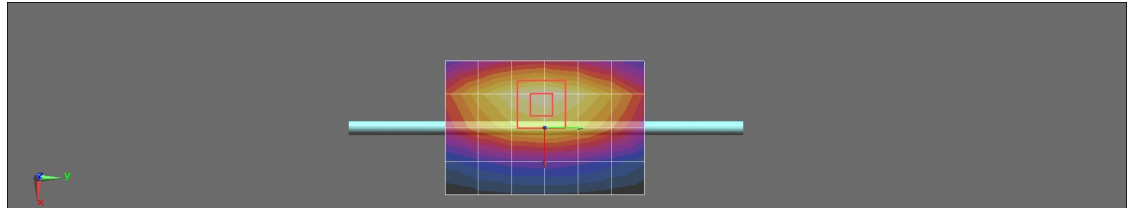
Communication System: UID 0, CW (0); Frequency: 750 MHz
Medium parameters used: $f = 750$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 41.69$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Date/Time: 10/1/2025 2:53:28 PM
Measurement Standard: DASY5
DASY Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.7, 9.09, 9.41) @ 750 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -1.5, 31.0, 151.0$
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

SPC/SPC 750H,Target=[2.01][2.23] [2.45] W/kg,Input_250mW/Area Scan (5x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 2.10 W/kg

SPC/SPC 750H,Target=[2.01][2.23] [2.45] W/kg,Input_250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
Reference Value = 45.37 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 3.06 W/kg
SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.42 W/kg
Ratio of SAR at M2 to SAR at M1 = 69.3%
Maximum value of SAR (measured) = 2.30 W/kg

SPC/SPC 750H,Target=[2.01][2.23] [2.45] W/kg,Input_250mW/Z Scan (1x1x29): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm
Penetration depth = 15.75 (16.03, 16.04) [mm]
Maximum value of SAR (interpolated) = 2.33 W/kg



DUT: D450V3 - SN1068; Type: D450V3; Serial: SN1068
Procedure Name: SPC-450H Oct 2 2025

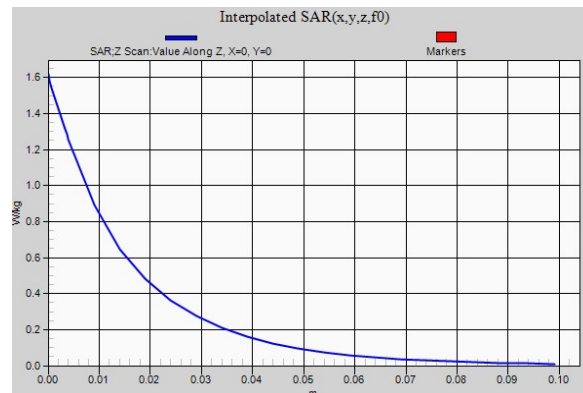
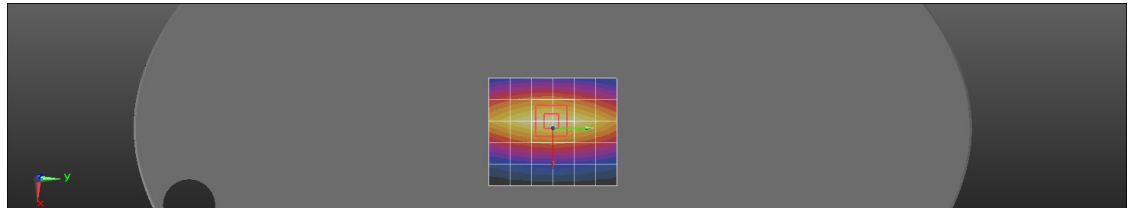
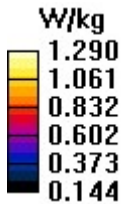
Communication System: UID 0, CW (0); Frequency: 450 MHz
Medium parameters used: $f = 450$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 46.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Date/Time: 10/2/2025 1:54:41 PM
Measurement Standard: DASY5
DASY Configuration:

- Probe: EX3DV4 - SN7826; ConvF(10.55, 10.55, 10.55) @ 450 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -1.5, 31.0, 151.0$
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

SPC/SPC 450H, Input 250mW, Target 1g[1.035][1.15][1.32385] W/kg/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.29 W/kg

SPC/SPC 450H, Input 250mW, Target 1g[1.035][1.15][1.32385] W/kg/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 38.36 V/m; Power Drift = -0.28 dB
Peak SAR (extrapolated) = 1.67 W/kg
SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.821 W/kg
Ratio of SAR at M2 to SAR at M1 = 70.9%
Maximum value of SAR (measured) = 1.26 W/kg

SPC/SPC 450H, Input 250mW, Target 1g[1.035][1.15][1.32385] W/kg/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Penetration depth = 15.65 (14.52, 17.02) [mm]
Maximum value of SAR (interpolated) = 1.62 W/kg



APPENDIX B – MEASUREMENT PLOTS OF MAXIMUM MEASURED SAR

B2Z

DUT: L3Harris 0179-5; Type: PTT; Serial: A40342000010
Procedure Name: B2 L3Harris 0179-E 868.9875MHz Body Config, T5,P14,A1,B1

Communication System: UID 0, CW (0); Frequency: 868.987 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 868.987$ MHz; $\sigma = 1.004$ S/m; $\epsilon_r = 39.416$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Date/Time: 2/12/2025 1:13:26 PM

DASY5 Configuration:

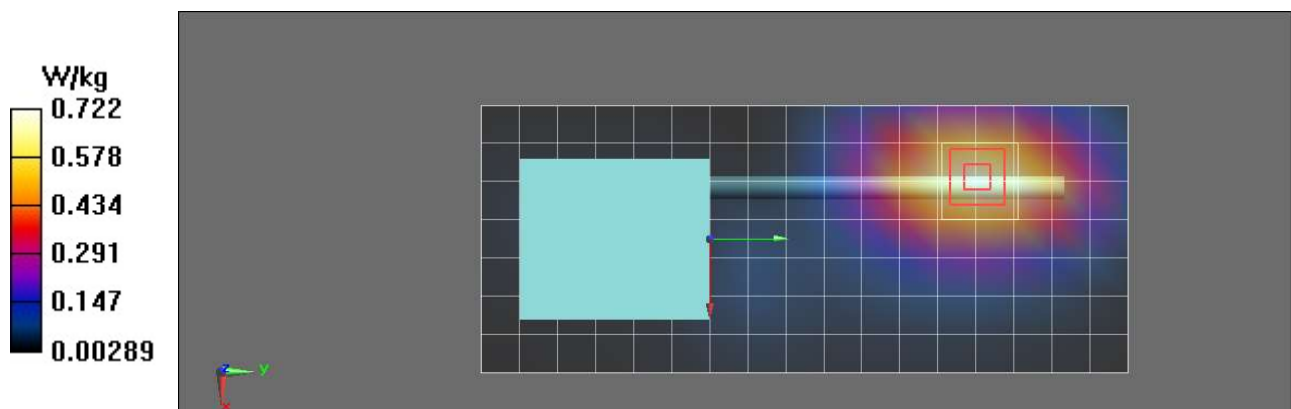
- Probe: EX3DV4 - SN7826; ConvF(9.14, 8.62, 8.9) @ 868.987 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

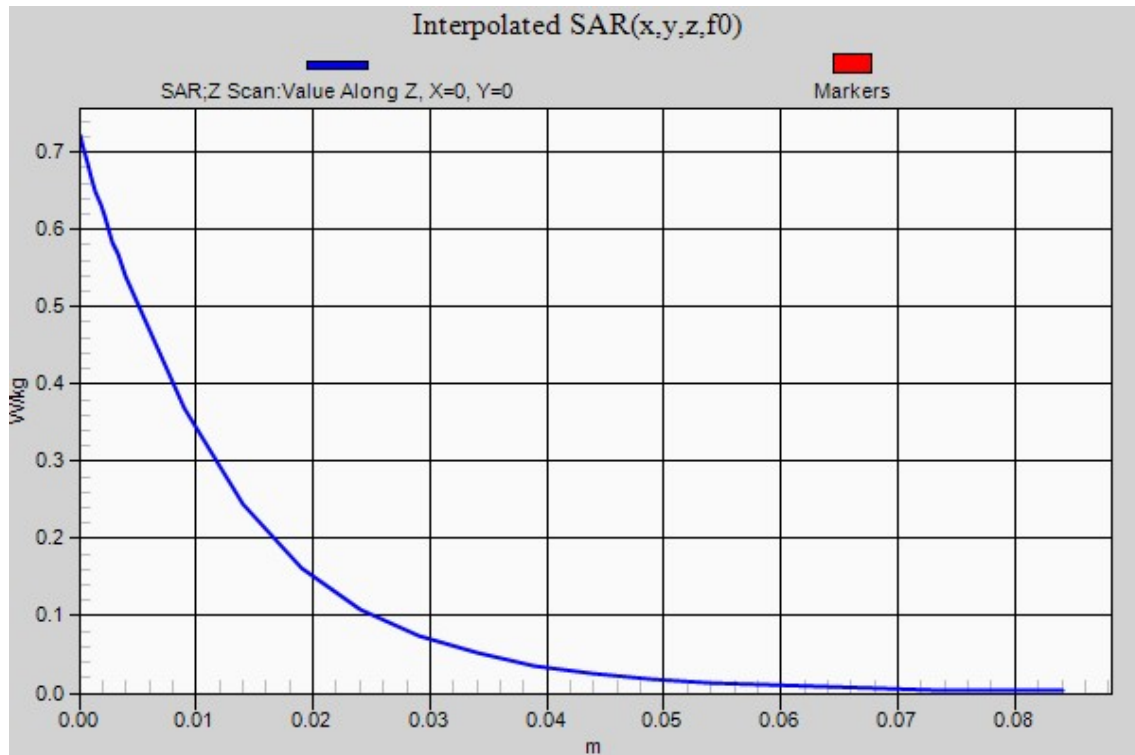
835H/B2 L3Harris 0179-E 868.9875MHz Body Config, T5,P14,A1,B1/Area Scan (8x18x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 10.9 W/kg

835H/B2 L3Harris 0179-E 868.9875MHz Body Config, T5,P14,A1,B1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.77 V/m; Power Drift = -0.22 dB
Peak SAR (extrapolated) = 13.8 W/kg
SAR(1 g) = 9.84 W/kg; SAR(10 g) = 6.69 W/kg
Ratio of SAR at M2 to SAR at M1 = 70.2%

835H/B2 L3Harris 0179-E 868.9875MHz Body Config, T5,P14,A1,B1/Z Scan (1x1x28): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: Interpolated medium parameters used for SAR evaluation.
Penetration depth = 12.08 (13.24, 12.11) [mm]
Maximum value of SAR (interpolated) = 0.722 W/kg





F30Z

DUT: L3Harris 0179-5; Type: PTT; Serial: A40342F00069
Procedure Name: F30 -L3Harris 0179-E 430.0125MHz Body Config, T4,P7

Communication System: UID 0, CW (0); Communication System Band: FullSpan (0.0 - 6000.0 MHz)
Medium parameters used (interpolated): $f = 430.012$ MHz; $\sigma = 0.81$ S/m; $\epsilon_r = 47.08$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Date/Time: 6/3/2025 1:44:22 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(10.55, 10.55, 10.55) @ 430.012 MHz; Calibrated: 5/15/2025
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 Ax; Serial: 1234
- Measurement SW: DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

450H/F30 -L3Harris 0179-E 430.0125MHz Body Config, T4,P7/Area Scan (7x20x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 4.20 W/kg

450H/F30 -L3Harris 0179-E 430.0125MHz Body Config, T4,P7/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 66.14 V/m; Power Drift = -0.34 dB

Peak SAR (extrapolated) = 4.53 W/kg

SAR(1 g) = 3.67 W/kg; SAR(10 g) = 2.89 W/kg

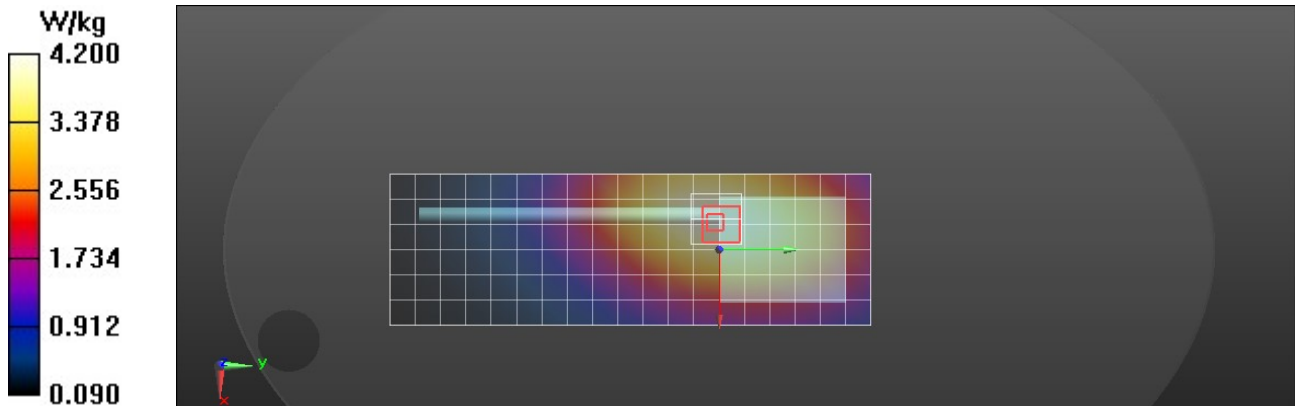
Ratio of SAR at M2 to SAR at M1 = 79.9%

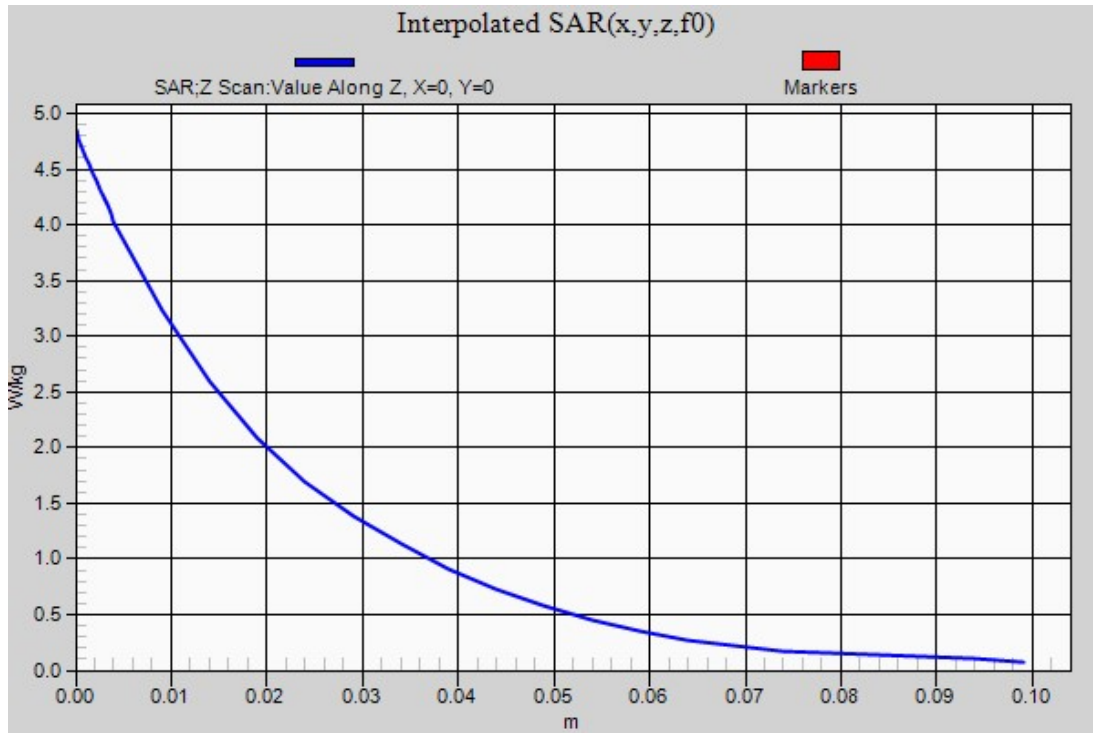
Maximum value of SAR (measured) = 3.83 W/kg

450H/F30 -L3Harris 0179-E 430.0125MHz Body Config, T4,P7/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Penetration depth = 22.70 (22.46, 23.18) [mm]

Maximum value of SAR (interpolated) = 4.85 W/kg





B112Z

DUT: L3Harris 0179-5; Type: PTT; Serial: A40342F00069

Procedure Name: B112L3Harris 0179-E LTE 897.5MHz RB1-2 Body Config P14,A1,B1, T7

Communication System: UID 0, CW (0); Communication System Band: FullSpan (0.0 - 6000.0 MHz); Frequency: 897.5 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): $f = 897.5$ MHz; $\sigma = 1$ S/m; $\epsilon_r = 38.017$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5

Date/Time: 4/16/2025 1:45:19 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.14, 8.62, 8.9) @ 897.5 MHz; Calibrated: 5/15/2024
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -1.5, 31.0, 151.0$
- Electronics: DAE4 Sn353; Calibrated: 5/13/2024
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

835H/B112 L3Harris 0179-E LTE 897.5MHz RB1-1 Body Config P14,A1,B1, T7/Area Scan (7x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

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

835H/B112 L3Harris 0179-E LTE 897.5MHz RB1-1 Body Config P14,A1,B1, T7/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 25.24 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 1.4 W/kg; SAR(10 g) = 0.808 W/kg

Smallest distance from peaks to all points 3 dB below = 18.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.6%

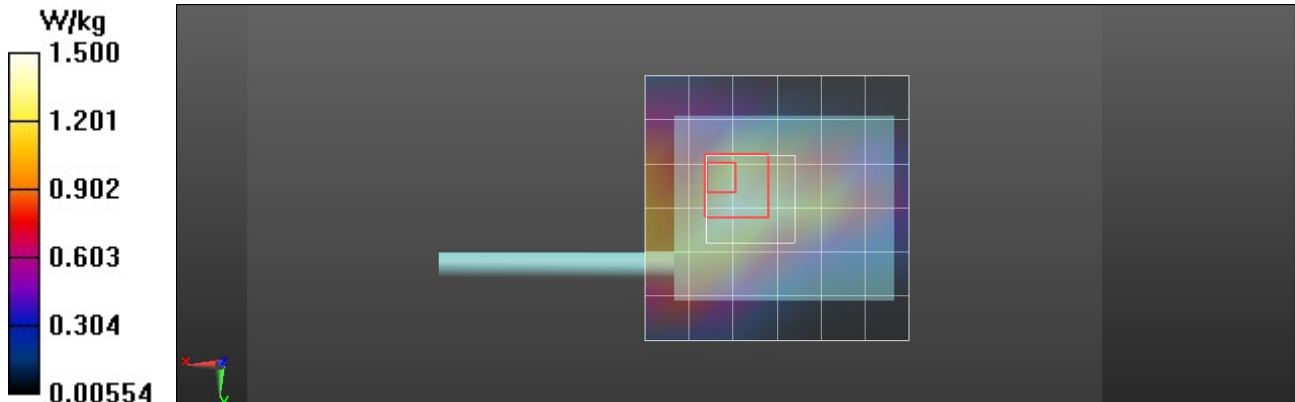
Maximum value of SAR (measured) = 1.53 W/kg

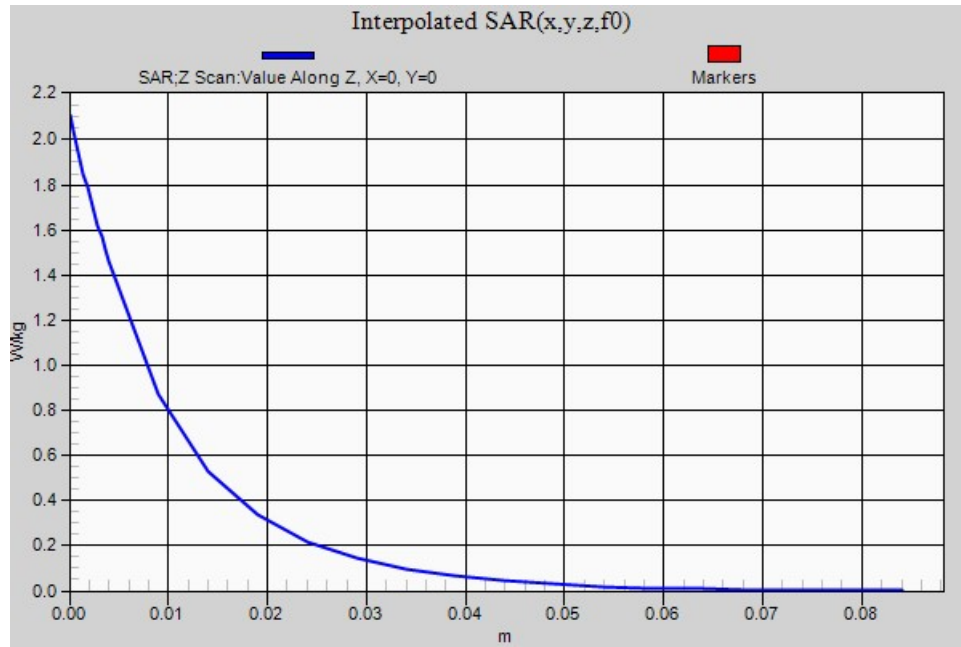
835H/B112 L3Harris 0179-E LTE 897.5MHz RB1-1 Body Config P14,A1,B1, T7/Z Scan (1x1x28): Measurement grid: $dx=20$ mm,

$dy=20$ mm, $dz=5$ mm

Penetration depth = 10.12 (9.635, 10.85) [mm]

Maximum value of SAR (interpolated) = 2.11 W/kg





F210Z

DUT: L3Harris 0179-5; Type: PTT; Serial: A40342F00069

Procedure Name: F210L3Harris 0179-E LTE B12 710.91 MHz RB1-1 Body Config T7, P7

Communication System: UID 0, CW (0); Communication System Band: FullSpan (0.0 - 6000.0 MHz); Frequency: 710.91 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): $f = 710.91$ MHz; $\sigma = 0.871$ S/m; $\epsilon_r = 42.59$; $\rho = 1000$ kg/m³
Phantom section: Left Section

Date/Time: 5/30/2025 2:06:20 PM

DASY5 Configuration:

- Probe: EX3DV4 - SN7826; ConvF(9.7, 9.09, 9.41) @ 710.91 MHz; Calibrated: 5/15/2025
 - Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -1.5, 31.0, 151.0$
- Electronics: DAE4 Sn353; Calibrated: 5/13/2025
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1177/2
- Measurement SW: DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)
-

750H/F210 L3Harris 0179-E LTE B12 710.91 MHz RB1-1 Body Config T7, P7/Area Scan (6x6x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0919 W/kg

750H/F210 L3Harris 0179-E LTE B12 710.91 MHz RB1-1 Body Config T7, P7/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 6.525 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.0600 W/kg

SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.037 W/kg

Ratio of SAR at M2 to SAR at M1 = 79.8%

Maximum value of SAR (measured) = 0.0509 W/kg

750H/F210 L3Harris 0179-E LTE B12 710.91 MHz RB1-1 Body Config T7, P7/Z Scan (1x1x29): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm

Penetration depth = 21.97 (21.10, 20.96) [mm]

Maximum value of SAR (interpolated) = 0.0573 W/kg

