

# Measurement Report for Band 53: LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, BACK

## Exposure Conditions

Band	Band 53	TSL Permittivity	38.5
Frequency [MHz]   Channel Number	2489.200   60197	TSL Conductivity [S/m]	1.83
Group   UID	LTE-TDD   10488-AAG	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.04	Test Distance [mm]	5.00

## Hardware Setup

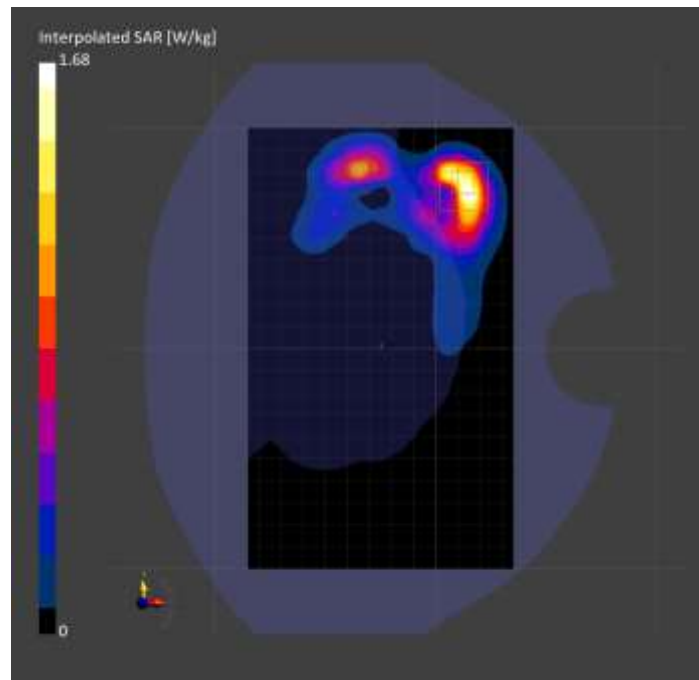
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.5
Dist 3dB Peak [mm]		5.7

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.631	<b>0.689</b>
psSAR10g [W/Kg]	0.285	<b>0.279</b>
Power Drift [dB]	N/A	-0.02



# Measurement Report for Band 41: LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, BACK

## Exposure Conditions

Band	Band 41	TSL Permittivity	38.4
Frequency [MHz]   Channel Number	2549.500   40185	TSL Conductivity [S/m]	1.88
Group   UID	LTE-TDD   10494-AAG	Phantom Section   TSL	Flat   HSL
Conversion Factor	6.97	Test Distance [mm]	5.00

## Hardware Setup

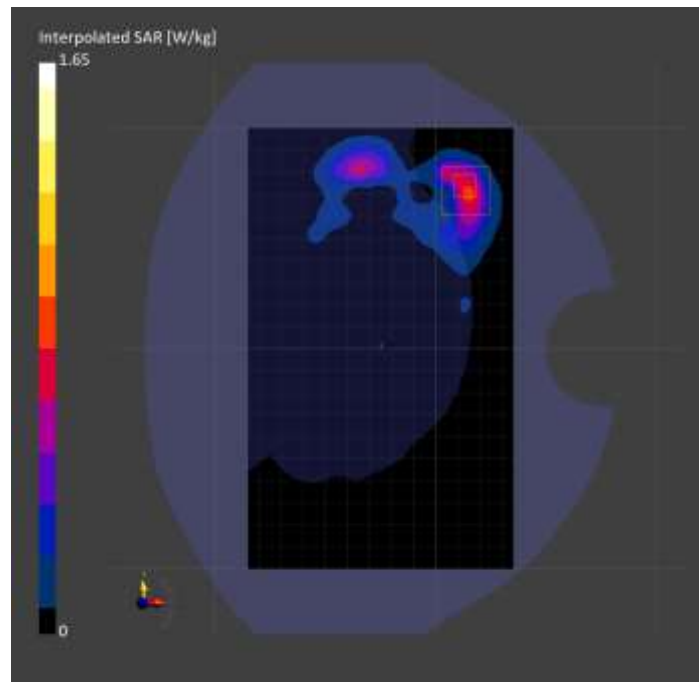
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.7
Dist 3dB Peak [mm]		5.7

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.633	<b>0.694</b>
psSAR10g [W/Kg]	0.276	<b>0.285</b>
Power Drift [dB]	N/A	-0.06



# Measurement Report for Band n48: 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, BACK

## Exposure Conditions

Band	Band n48	TSL Permittivity	37.8
Frequency [MHz]   Channel Number	3643.315   642888	TSL Conductivity [S/m]	3.07
Group   UID	5G NR FR1 TDD   10913-AAD	Phantom Section   TSL	Flat   HSL
Conversion Factor	6.66	Test Distance [mm]	5.00

## Hardware Setup

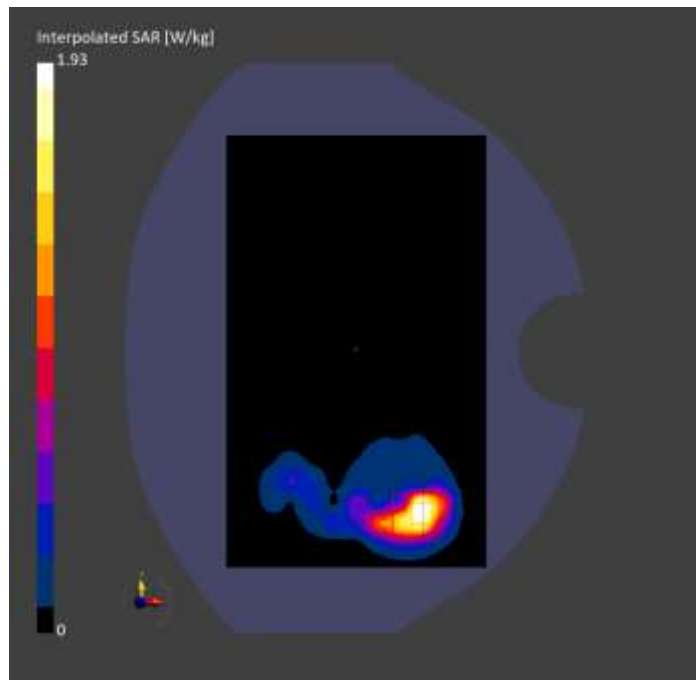
Probe   Calibration Date	EX3DV4 - SN3990   2023-02-17	Phantom	Twin-SAM V5.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1545   2023-02-14	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		77.3
Dist 3dB Peak [mm]		7.1

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.643	<b>0.725</b>
psSAR10g [W/Kg]	0.247	<b>0.264</b>
Power Drift [dB]	N/A	0.05



# Measurement Report for WLAN 2.4GHz: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle), EDGE RIGHT

## Exposure Conditions

Band	WLAN 2.4GHz	TSL Permittivity	39.6
Frequency [MHz]   Channel Number	2462.000   11	TSL Conductivity [S/m]	1.80
Group   UID	WLAN   10415-AAA	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.64	Test Distance [mm]	5.00

## Hardware Setup

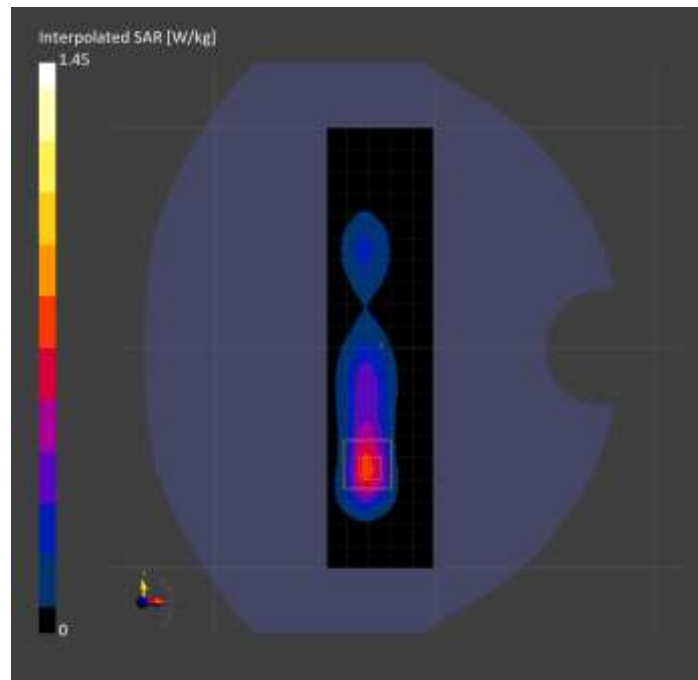
Probe   Calibration Date	EX3DV4 - SN7587   2023-04-18	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1239   2023-03-16	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan	Secondary Zoom Scan
Grid Extents [mm]	48.0 x 200.0	30.0 x 30.0 x 30.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	N/A	Yes	Yes
M2/M1 [%]		79.3	79.2
Dist 3dB Peak [mm]		7.0	7.0

## Measurement Results

	Area Scan	Zoom Scan	Secondary Zoom Scan
psSAR1g [W/Kg]	0.580	<b>0.659</b>	<b>0.655</b>
psSAR10g [W/Kg]	0.257	<b>0.277</b>	<b>0.278</b>
Power Drift [dB]	N/A	0.25	-0.01



# Measurement Report for WLAN 5GHz: IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), BACK

## Exposure Conditions

Band	WLAN 5GHz	TSL Permittivity	36.3
Frequency [MHz]   Channel Number	5690.000   138	TSL Conductivity [S/m]	4.97
Group   UID	WLAN   10544-AAD	Phantom Section   TSL	Flat   HSL
Conversion Factor	4.86	Test Distance [mm]	5.00

## Hardware Setup

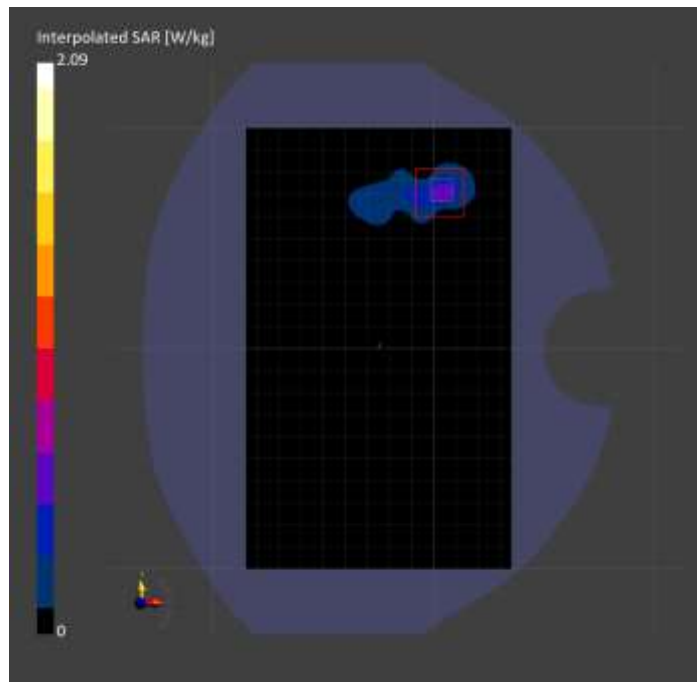
Probe   Calibration Date	EX3DV4 - SN7810   2023-04-25	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1439   2023-03-16	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		5.4

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.436	<b>0.472</b>
psSAR10g [W/Kg]	0.134	<b>0.136</b>
Power Drift [dB]	N/A	0.00



# Measurement Report for ISM 2.4 GHz Band: IEEE 802.15.1 Bluetooth (GFSK, DH5), EDGE RIGHT

## Exposure Conditions

Band	ISM 2.4 GHz Band	TSL Permittivity	38.5
Frequency [MHz]   Channel Number	2441.000   39	TSL Conductivity [S/m]	1.79
Group   UID	Bluetooth   10032-CAA	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.04	Test Distance [mm]	5.00

## Hardware Setup

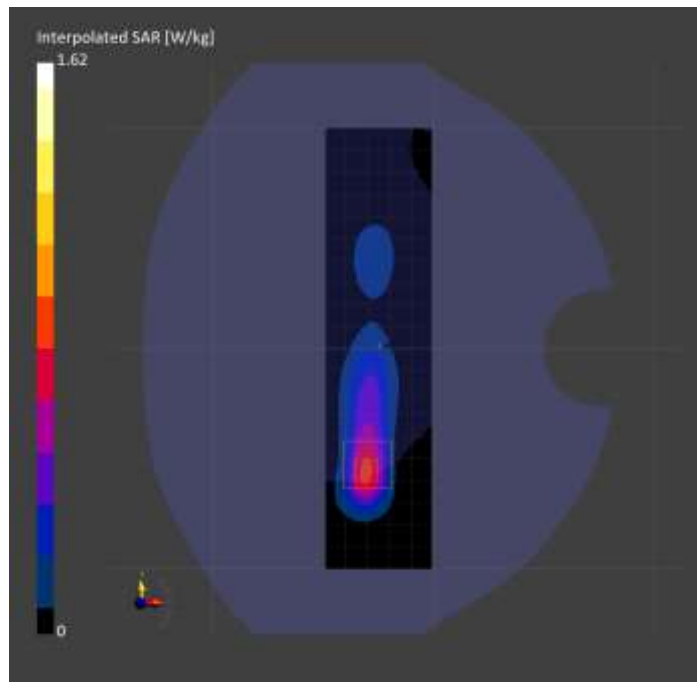
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.3
Dist 3dB Peak [mm]		7.0

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.658	<b>0.673</b>
psSAR10g [W/Kg]	0.289	<b>0.282</b>
Power Drift [dB]	N/A	-0.06



# Measurement Report for NFC: CW, EDGE TOP

## Exposure Conditions

Band	Custom Band	TSL Permittivity	55.4
Frequency [MHz]   Channel Number	13.600   13600	TSL Conductivity [S/m]	0.718
Group   UID	CW   0--	Phantom Section   TSL	Flat   HSL
Conversion Factor	19.03	Test Distance [mm]	0.00

## Hardware Setup

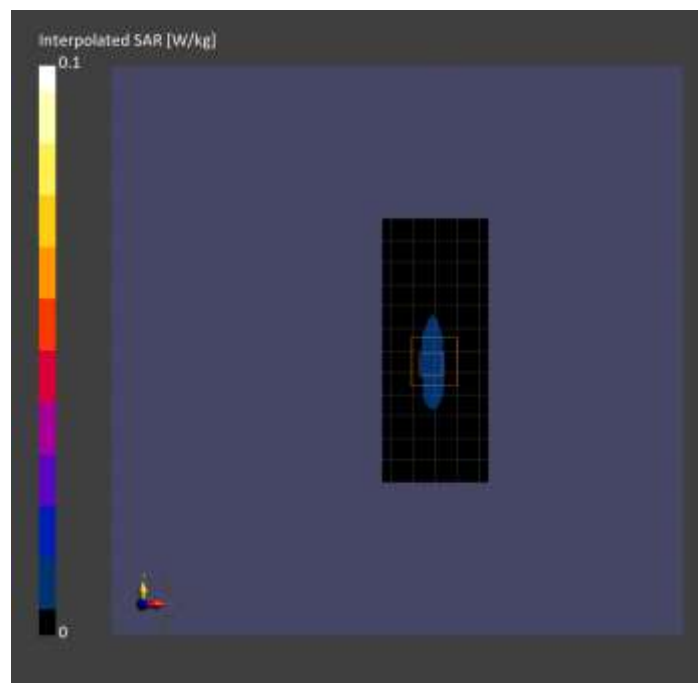
Probe   Calibration Date	EX3DV4 - SN3989   2023-01-26	Phantom	ELI V8.0 (20deg probe tilt)
DAE   Calibration Date	DAE4 Sn1257   2022-09-20	TSL Type	HBBL4-250V3
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		60.5
Dist 3dB Peak [mm]		4.8

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.012	<b>0.012</b>
psSAR10g [W/Kg]	0.007	<b>0.004</b>
Power Drift [dB]	N/A	-0.06



# Measurement Report for Band 41: LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, BACK

## Exposure Conditions

Band	Band 41	TSL Permittivity	38.4
Frequency [MHz]   Channel Number	2549.500   40185	TSL Conductivity [S/m]	1.88
Group   UID	LTE-TDD   10494-AAG	Phantom Section   TSL	Flat   HSL
Conversion Factor	6.97	Test Distance [mm]	5.00

## Hardware Setup

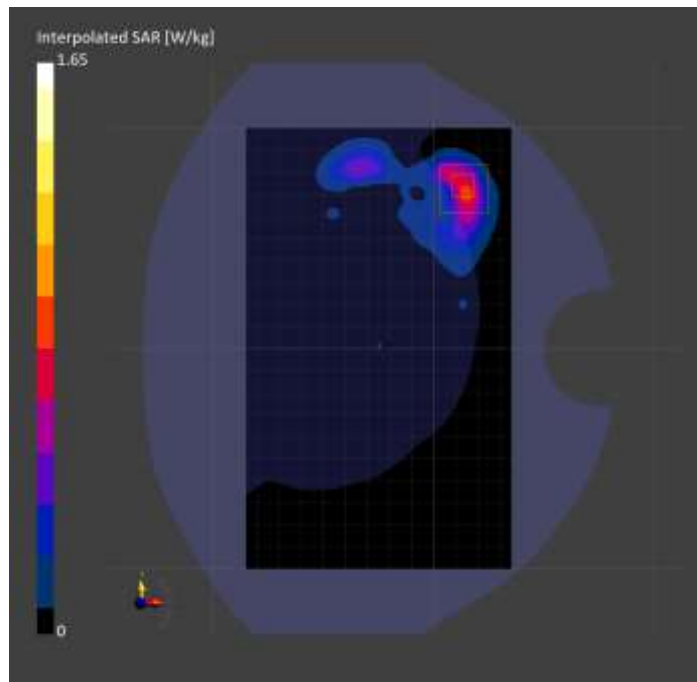
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.3
Dist 3dB Peak [mm]		5.7

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.638	<b>0.683</b>
psSAR10g [W/Kg]	0.280	<b>0.278</b>
Power Drift [dB]	N/A	-0.13





# Measurement Report for Band n48: 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, BACK

## Exposure Conditions

Band	Band n48	TSL Permittivity	37.8
Frequency [MHz]   Channel Number	3643.315   642888	TSL Conductivity [S/m]	3.07
Group   UID	5G NR FR1 TDD   10913-AAD	Phantom Section   TSL	Flat   HSL
Conversion Factor	6.66	Test Distance [mm]	5.00

## Hardware Setup

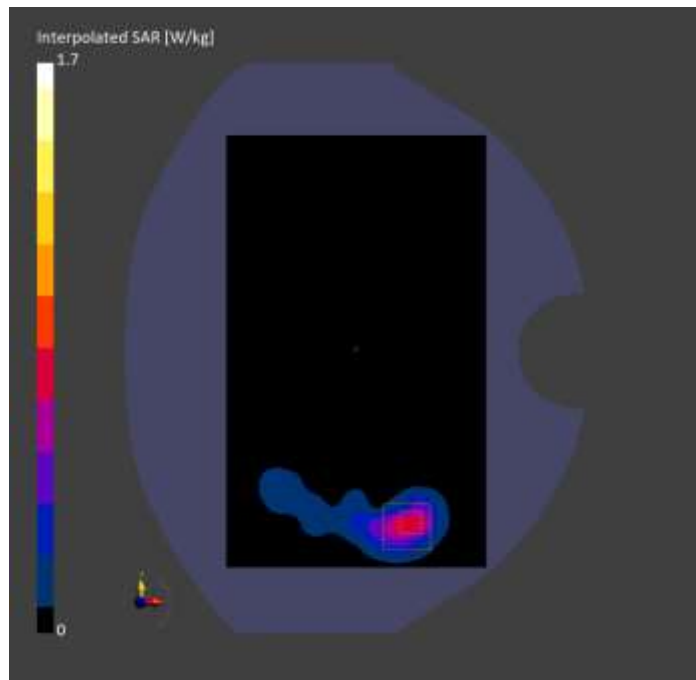
Probe   Calibration Date	EX3DV4 - SN3990   2023-02-17	Phantom	Twin-SAM V5.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1545   2023-02-14	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.2
Dist 3dB Peak [mm]		7.3

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.587	<b>0.660</b>
psSAR10g [W/Kg]	0.232	<b>0.251</b>
Power Drift [dB]	N/A	0.02



# Measurement Report for WLAN 2.4GHz: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle), EDGE RIGHT

## Exposure Conditions

Band	WLAN 2.4GHz	TSL Permittivity	39.6
Frequency [MHz]   Channel Number	2462.000   11	TSL Conductivity [S/m]	1.80
Group   UID	WLAN   10415-AAA	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.64	Test Distance [mm]	5.00

## Hardware Setup

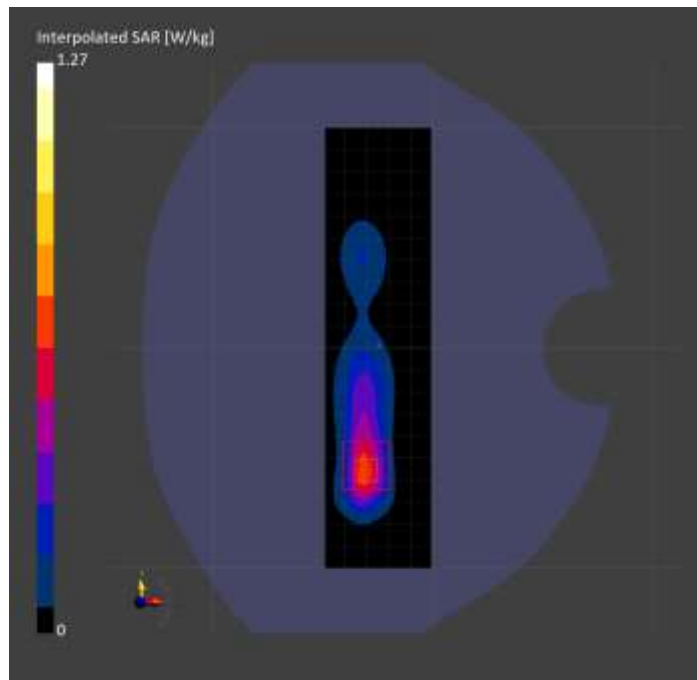
Probe   Calibration Date	EX3DV4 - SN7587   2023-04-18	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1239   2023-03-16	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		78.8
Dist 3dB Peak [mm]		7.0

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.525	<b>0.568</b>
psSAR10g [W/Kg]	0.230	<b>0.238</b>
Power Drift [dB]	N/A	-0.02



# Measurement Report for WLAN 5GHz: IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), BACK

## Exposure Conditions

Band	WLAN 5GHz	TSL Permittivity	37.0
Frequency [MHz]   Channel Number	5690.000   138	TSL Conductivity [S/m]	4.97
Group   UID	WLAN   10544-AAD	Phantom Section   TSL	Flat   HSL
Conversion Factor	5.15	Test Distance [mm]	5.00

## Hardware Setup

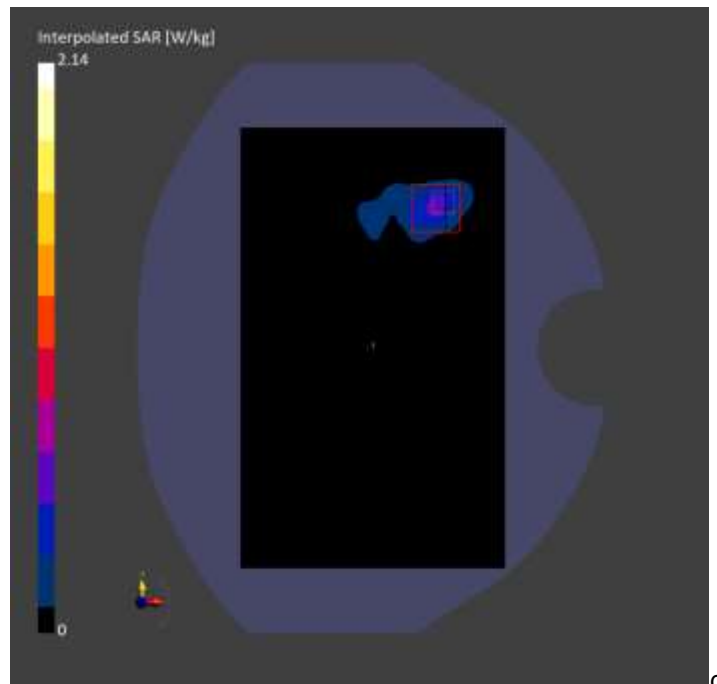
Probe   Calibration Date	EX3DV4 - SN3902   2023-03-17	Phantom	Twin-SAM V5.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1797   2023-04-03	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan	Secondary Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	N/A	Yes	Yes
M2/M1 [%]		61.3	61.1
Dist 3dB Peak [mm]		5.8	5.8

## Measurement Results

	Area Scan	Zoom Scan	Secondary Zoom Scan
psSAR1g [W/Kg]	0.441	<b>0.493</b>	<b>0.484</b>
psSAR10g [W/Kg]	0.156	<b>0.154</b>	<b>0.148</b>
Power Drift [dB]	N/A	-0.28	0.10



# Measurement Report for ISM 2.4 GHz Band: IEEE 802.15.1 Bluetooth (GFSK, DH5), EDGE RIGHT

## Exposure Conditions

Band	ISM 2.4 GHz Band	TSL Permittivity	40.4
Frequency [MHz]   Channel Number	2441.000   39	TSL Conductivity [S/m]	1.78
Group   UID	Bluetooth   10032-CAA	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.64	Test Distance [mm]	5.00

## Hardware Setup

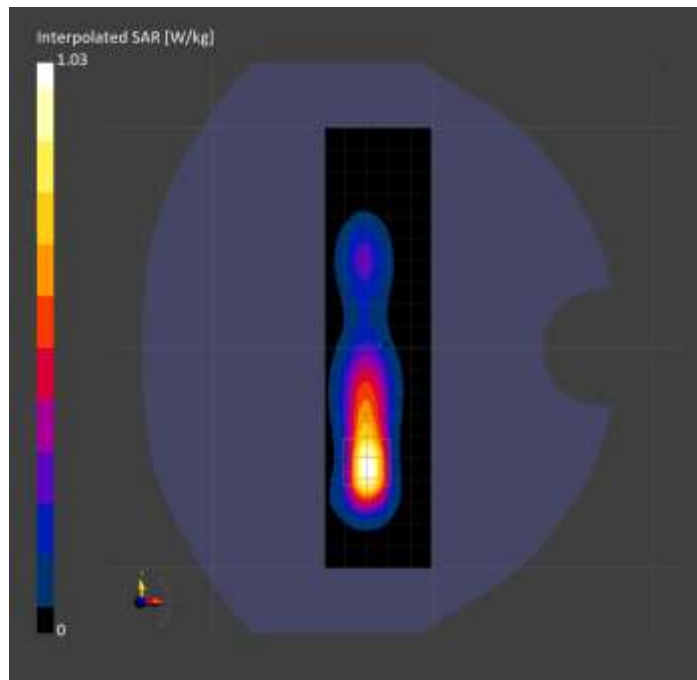
Probe   Calibration Date	EX3DV4 - SN7587   2023-04-18	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1239   2023-03-16	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		78.2
Dist 3dB Peak [mm]		7.1

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.438	<b>0.459</b>
psSAR10g [W/Kg]	0.192	<b>0.194</b>
Power Drift [dB]	N/A	0.01



# Measurement Report for NFC: CW, EDGE TOP

## Exposure Conditions

Band	Custom Band	TSL Permittivity	55.4
Frequency [MHz]   Channel Number	13.600   13600	TSL Conductivity [S/m]	0.718
Group   UID	CW   0--	Phantom Section   TSL	Flat   HSL
Conversion Factor	19.03	Test Distance [mm]	0.00

## Hardware Setup

Probe   Calibration Date	EX3DV4 - SN3989   2023-01-26	Phantom	ELI V8.0 (20deg probe tilt)
DAE   Calibration Date	DAE4 Sn1257   2022-09-20	TSL Type	HBBL4-250V3
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		61.7
Dist 3dB Peak [mm]		6.0

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.018	<b>0.017</b>
psSAR10g [W/Kg]	0.010	<b>0.006</b>
Power Drift [dB]	N/A	-0.10

