Appendix B: SAR Plots of System Verification

Wi-Fi-2.4 GHz

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D2450V2 – SN902	2450.0	HSL	17.0	6.7	4.9	8.5	−2.2

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2450.0, 0	7.59	1.83	38.08

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) – 1351	HBBL-600-10000 Charge:xxxx, 2020-Oct-26	EX3DV4 – SN7374, 2019-10-28	DAE4 Sn640, 2019-10-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	No
Grading Ratio	n/a	n/a
MAIA	N/A	N/A
Surface Detection	VMS	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2020-10-26, 08:20	2020-10-26, 08:26
psSAR1g [W/Kg]	2.68	2.83
psSAR10g [W/Kg]	1.24	1.30
Power Drift [dB]	−0.06	−0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
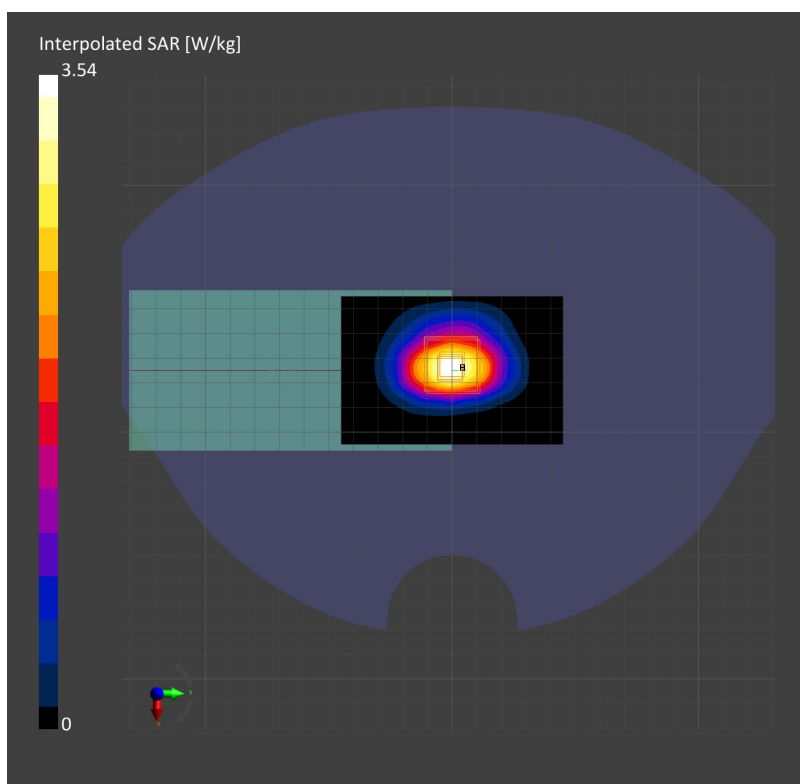
Wi-Fi-5 GHz - UNII-1

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D5GHzV2 - SN1109	5200.0	HSL	17.0	-2.4	-1.1	-6.6	-3.8

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	5200.0, 0	5.35	4.51	36.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - 1351	HBBL-600-10000 Charge:xxxx, 2020-Oct-27	EX3DV4 - SN7374, 2019-10-28	DAE4 Sn640, 2019-10-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2020-10-27, 08:27	2020-10-27, 08:33
psSAR1g [W/Kg]	4.46	3.94
psSAR10g [W/Kg]	1.28	1.15
Power Drift [dB]	0.07	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
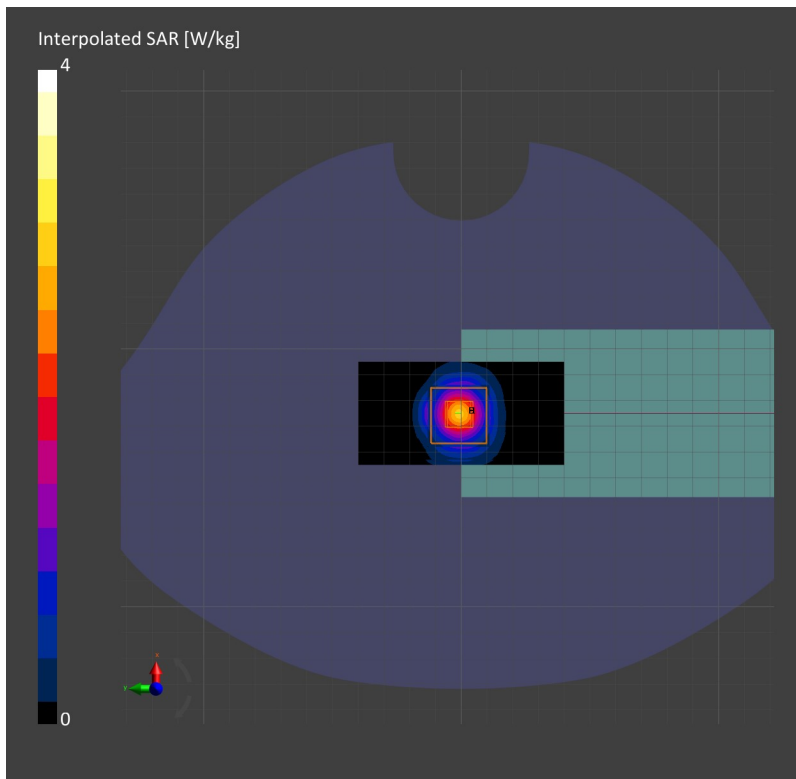
Wi-Fi-5 GHz - UNII-3

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D5GHzV2 – SN1109	5800.0	HSL	17.0	8.1	8.5	9.0	3.8

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0––	5800.0, 0	4.69	5.17	34.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) – 1351	HBBL-600-10000 Charge:xxxx, 2020-Oct-27	EX3DV4 – SN7374, 2019-10-28	DAE4 Sn640, 2019-10-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2020-10-27, 12:50	2020-10-27, 12:57
psSAR1g [W/Kg]	4.26	4.48
psSAR10g [W/Kg]	1.27	1.28
Power Drift [dB]	0.17	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction