

Appendix B PD Measurement data

Step 1: Power Reference Measurement

Same as System Check Scan Procedures step 1.

Step 2: 5G Scan

Grid step : $0.125 (\lambda / 8)$

Grid extent : X/Y direction sufficiently large against the region of interest.

Distance between probe and DUT : $> \lambda / 5$, details are shown in section 6.3.

Measurement area is defined based on TCB work shop April 2019, “A sufficiently large measurement region and proper measurement spatial resolution are required to maintain field reconstruction accuracy”.

–Fields at the measurement region boundary should be ~20-30 dB below the peaks

Step 3: Power drift measurement

Same as System Check Scan Procedures step 3.

When the drift is smaller than $\pm 5 \%$, it is considered in the uncertainty budget if drifts larger than 5%, uncertainty is re-calculated.

B.1 n258 Module#1 L-Mid ch ID 26 + 154 ipl 0.4 dBm H + V Keyboard side

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Keyboard, 2.00	Custom Band	CW, 0--	24400.0, 24400000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1038	Air---	EUmmWV4 - SN9450_F1-55GHz, 2021-11-11	DAE4 Sn1369, 2021-05-11

Scan Setup

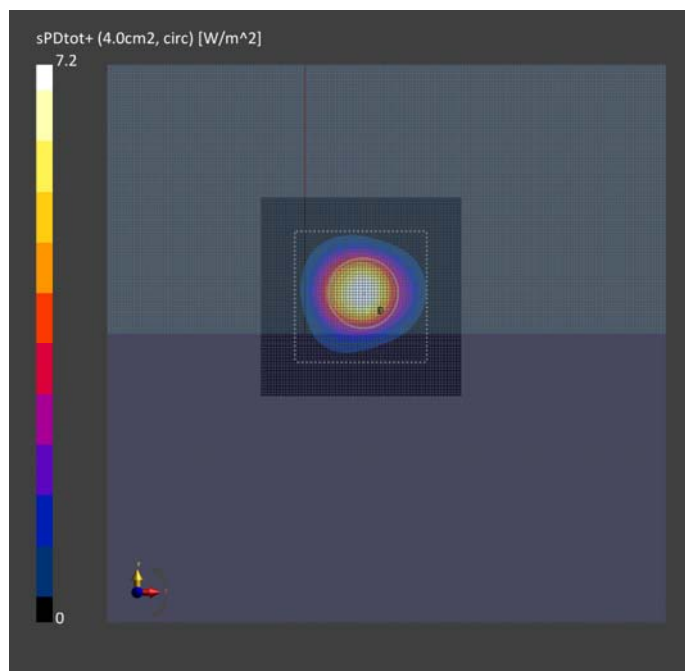
	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2022-03-15, 16:05
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	6.17
psPDtot+ [W/m ²]	7.17
psPDmod+ [W/m ²]	7.46
E _{max} [V/m]	93.2
Power Drift [dB]	-0.16

Warning(s) / Error(s)

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



B.2 n261 Module#0 Low ch ID 153 ipl 4.8 dBm Hori. Edge 2

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	EDGE 2, 2.00	Custom Band	CW, 0--	27559.3, 27559300	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1038	Air---	EUmmWV4 - SN9450_F1-55GHz, 2021-11-11	DAE4 Sn1369, 2021-05-11

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

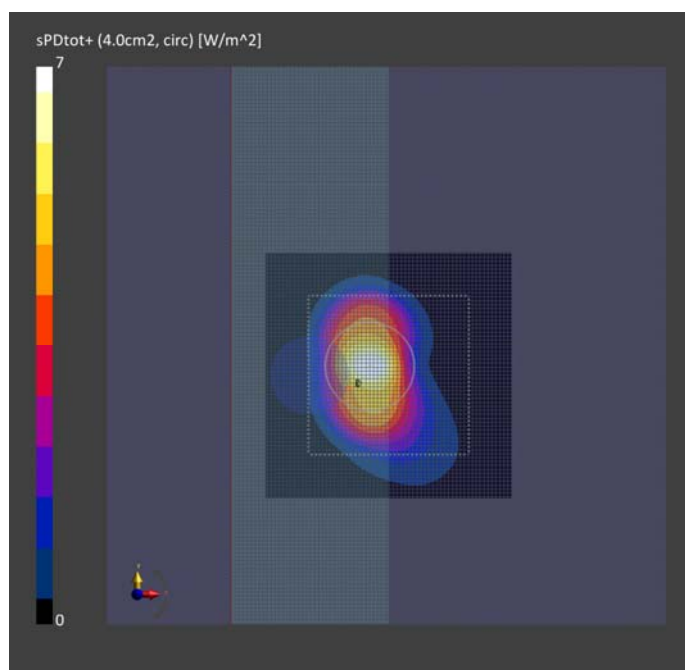
	5G Scan
Date	2022-03-08, 17:43
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	5.63
psPDtot+ [W/m ²]	7.00
psPDmod+ [W/m ²]	7.70
E _{max} [V/m]	122
Power Drift [dB]	-0.15

Warning(s) / Error(s)

Details	5G Scan
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Warning(s)

Error(s)



B.3 n260 Module#0 Mid ch ID 25 + 153 ipl 1.0 dBm H + V Edge 2

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	EDGE 2, 2.00	Custom Band	CW, 0--	38498.9, 38498900	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1038	Air---	EUmmWV4 - SN9450_F1-55GHz, 2021-11-11	DAE4 Sn1369, 2021-05-11

Scan Setup

	5G Scan
Grid Extents [mm]	50.0 x 50.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2022-03-09, 17:55
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	5.61
psPDtot+ [W/m ²]	7.01
psPDmod+ [W/m ²]	7.59
E _{max} [V/m]	103
Power Drift [dB]	-0.12

Warning(s) / Error(s)

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

