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 (λ / 8)
Grid extent : X/Y direction sufficiently large against the region of interest.
Distance between probe and DUT : > λ / 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 ± 5 %, it is considered in the uncertainty budget if drifts larger than 5%, uncertainty is re-calculated.

B.1 n258 Module#0 Hch ID36+164 ipl 0.7dBm H+V.

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	EDGE LEFT, 2.00	Custom Band	CW, 0--	25200.0, 25200000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1038	--Air-	EUmmWV4 - SN9450_F1-78GHz, 2020-10-21	DAE4 Sn1372, 2020-08-12

Scan Setup

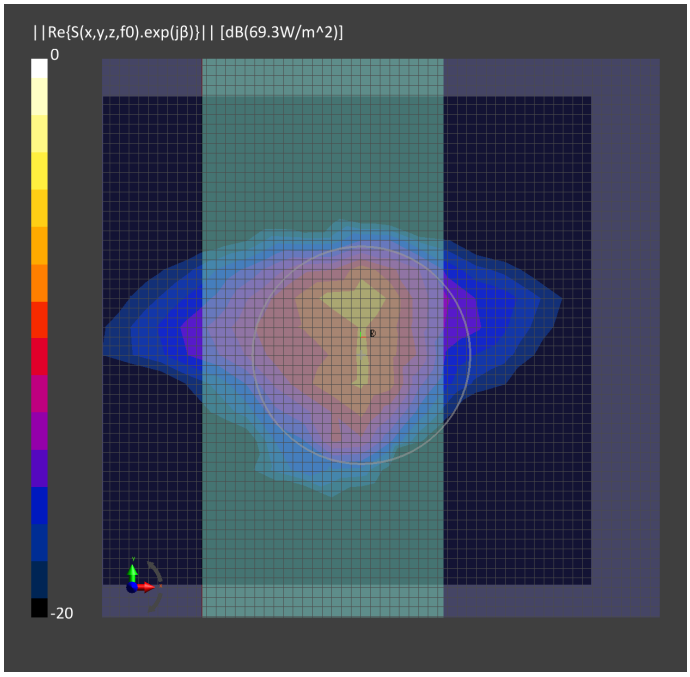
	5G Scan
Grid Extents [mm]	50.0 x 50.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-07-08, 15:22
Avg. Area [cm^2]	4.00
pS$_{tot}$ avg [W/m^2]	5.55
pS$_n$ avg [W/m^2]	4.79
E$_{peak}$ [V/m]	69.3
Power Drift [dB]	-0.20

Warning(s) / Error(s)

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



B.2 n261 Module#0 Mch ID151 ipl 3.7dBm Hori.

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	EDGE LEFT, 2.00	Custom Band	CW, 0--	27923.5, 27923500	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1038	--Air-	EUmmWV4 - SN9450_F1-78GHz, 2020-10-21	DAE4 Sn509, 2020-07-08

Scan Setup

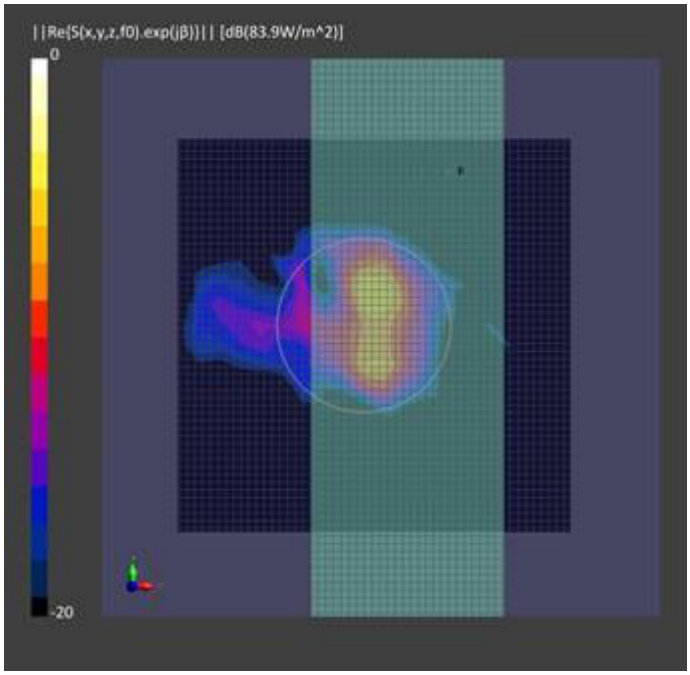
	5G Scan
Grid Extents [mm]	50.0 x 50.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-05-18, 10:00
Avg. Area [cm^2]	4.00
pS$_{tot}$ avg [W/m^2]	6.49
pS$_n$ avg [W/m^2]	5.33
E$_{peak}$ [V/m]	83.9
Power Drift [dB]	-0.02

Warning(s) / Error(s)

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



B.3 n260 Module#0 Mch ID36 ipl 4.4dBm Vert. 0517

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1038	--Air-	EUmmWV4 - SN9450_F1-78GHz, 2020-10-21	DAE4 Sn509, 2020-07-08

Scan Setup

	5G Scan
Grid Extents [mm]	40.0 x 40.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2021-05-17, 12:30
Avg. Area [cm^2]	4.00
pS$_{tot}$ avg [W/m^2]	5.79
pS$_n$ avg [W/m^2]	4.83
E$_{peak}$ [V/m]	130
Power Drift [dB]	0.10

Warning(s) / Error(s)

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