Appendix C - Highest Measurement Plots

Date: 2023/11/6

21_WLAN 2.4 GHz_802.11b_Bottom Side_0mm_Ch11_ANT 2

DUT: AX211D2W

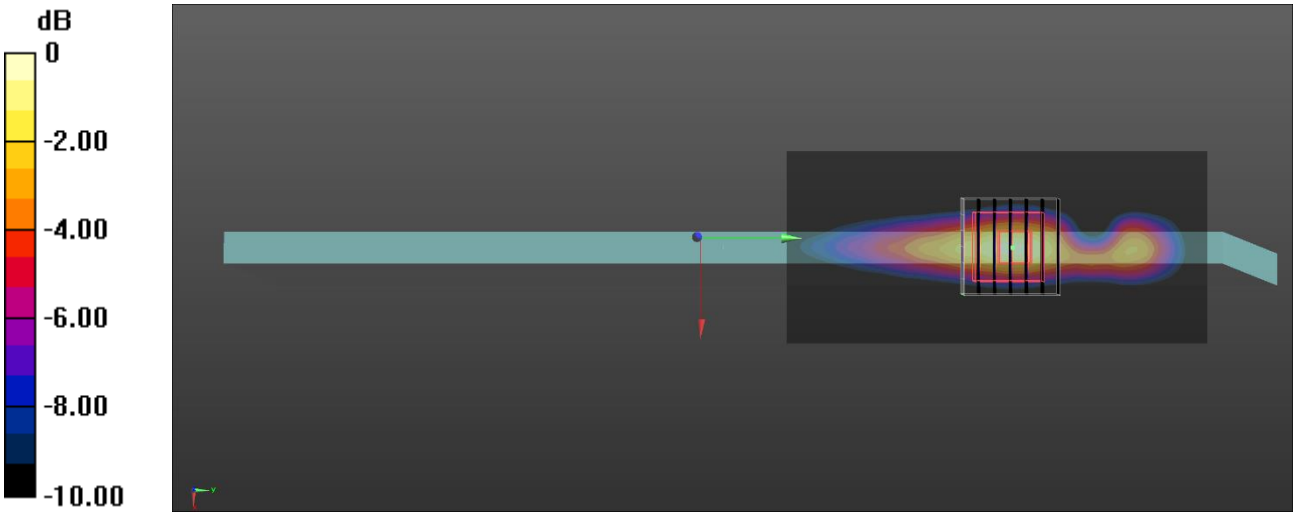
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2462 MHz;Duty Cycle: 1:1.009
Medium parameters used: f = 2462 MHz; σ = 1.785 S/m; ε_r = 39.545; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN7647; ConvF(8.05, 8.05, 8.05) @ 2462 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1253; Calibrated: 2022/12/16
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (51x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.12 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.86 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.56 W/kg
SAR(1 g) = 0.650 W/kg; SAR(10 g) = 0.276 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 42.9%
Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

Date: 2023/11/6

31_Bluetooth_GFSK_Bottom of laptop_0mm_Ch0_ANT 1

DUT: AX211D2W

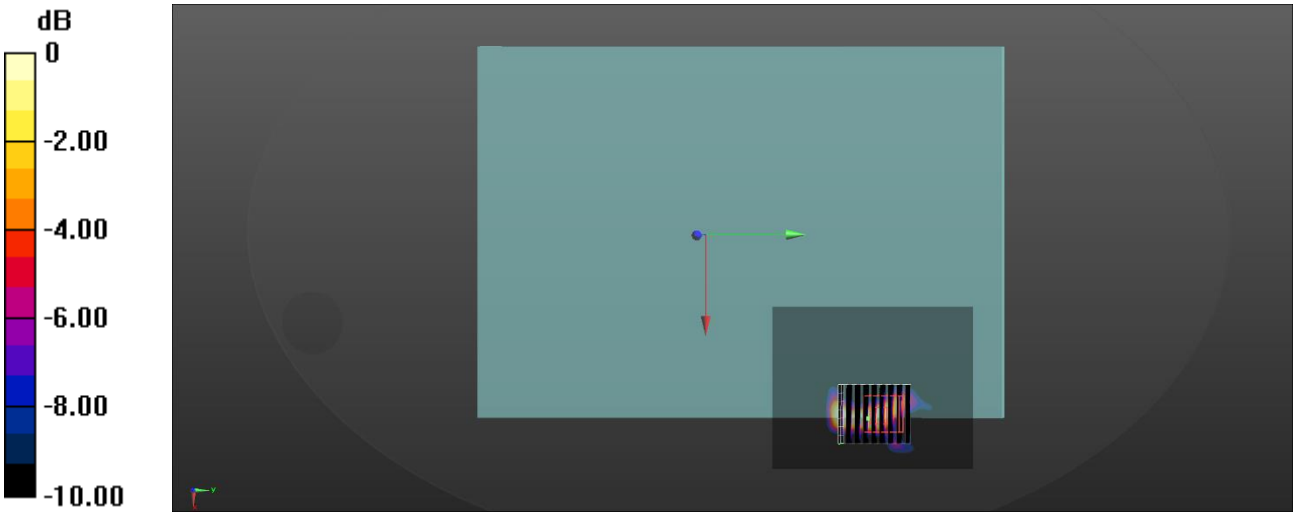
Communication System: UID 0, Bluetooth 3.0 (0); Frequency: 2402 MHz;Duty Cycle: 1:1.295
Medium parameters used: f = 2402 MHz; σ = 1.74 S/m; ε_r = 39.637; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN7647; ConvF(8.05, 8.05, 8.05) @ 2402 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1253; Calibrated: 2022/12/16
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.211 W/kg

Zoom Scan (8x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.717 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.177 W/kg
SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.031 W/kg
Smallest distance from peaks to all points 3 dB below = 6.7 mm
Ratio of SAR at M2 to SAR at M1 = 47.3%
Maximum value of SAR (measured) = 0.137 W/kg



0 dB = 0.137 W/kg = -8.63 dBW/kg

Date: 2023/11/7

36_WLAN 5 GHz_802.11ac VHT160_Rear Face_0mm_Ch50_ANT 2

DUT: AX211D2W

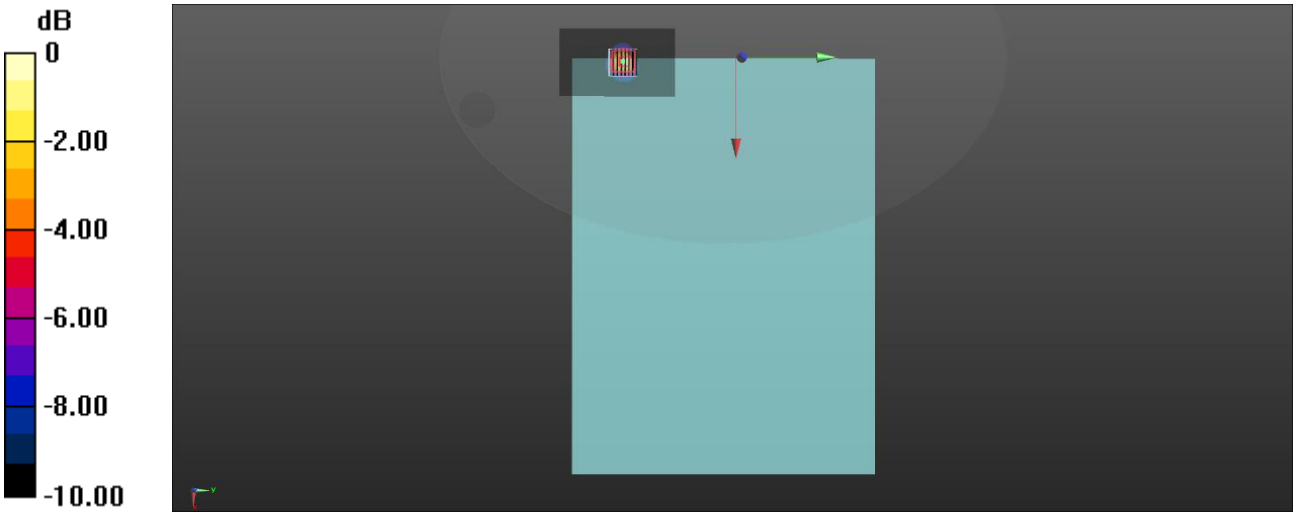
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5250 MHz;Duty Cycle: 1:1.01
Medium parameters used: f = 5250 MHz; σ = 4.545 S/m; ε_r = 34.54; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN7647; ConvF(5.6, 5.6, 5.6) @ 5250 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1253; Calibrated: 2022/12/16
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.88 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.85 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.54 W/kg
SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.223 W/kg
Smallest distance from peaks to all points 3 dB below = 8.4 mm
Ratio of SAR at M2 to SAR at M1 = 62.9%
Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

Date: 2023/11/8

58_WLAN 5 GHz_802.11ac VHT160_Rear Face_0mm_Ch114_ANT 2

DUT: AX211D2W

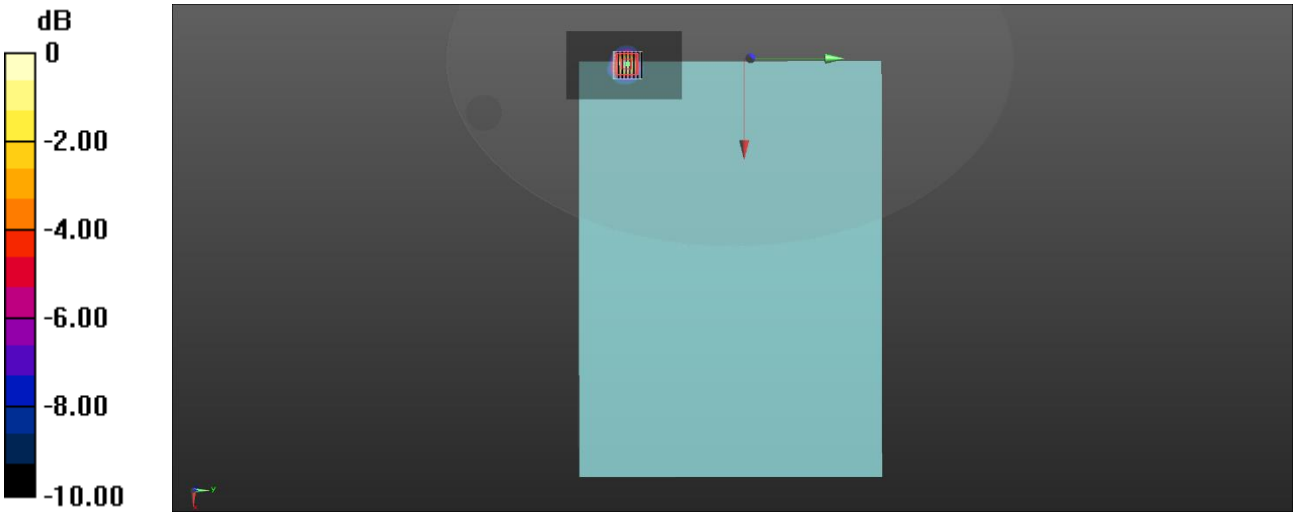
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5570 MHz;Duty Cycle: 1:1.01
Medium parameters used: f = 5570 MHz; σ = 4.849 S/m; ε_r = 34.49; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN7647; ConvF(5.08, 5.08, 5.08) @ 5570 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1253; Calibrated: 2022/12/16
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.60 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 10.16 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.49 W/kg
SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.204 W/kg
Smallest distance from peaks to all points 3 dB below = 8.6 mm
Ratio of SAR at M2 to SAR at M1 = 60.4%
Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

Date: 2023/11/9

99_WLAN 5 GHz_802.11ac VHT160_Rear Face_0mm_Ch163_ANT 2

DUT: AX211D2W

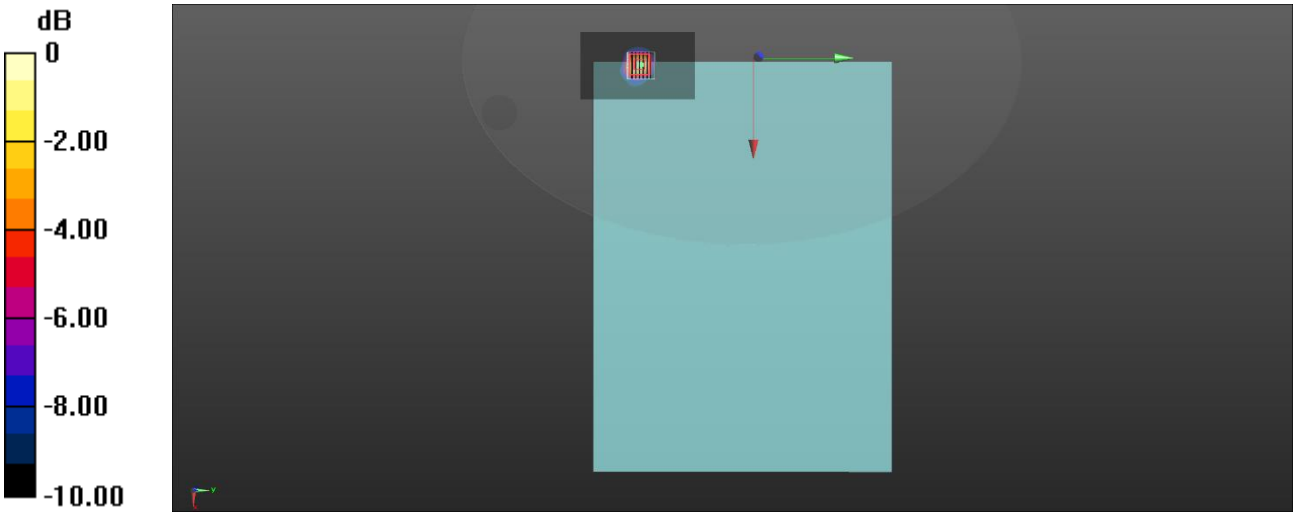
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5815 MHz;Duty Cycle: 1:1.01
Medium parameters used: f = 5815 MHz; σ = 5.097 S/m; ε_r = 34.218; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN7647; ConvF(5.05, 5.05, 5.05) @ 5815 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1253; Calibrated: 2022/12/16
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.76 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.31 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 2.82 W/kg
SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.219 W/kg
Smallest distance from peaks to all points 3 dB below = 8.8 mm
Ratio of SAR at M2 to SAR at M1 = 58.9%
Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

Test Date : 2023-11-10 | Ambient Temp : 23.2 °C | Tissue Temp : 22.5 °C

Test Mode

143_WLAN 6 GHz_802.11ax HE160_Bottom of laptop_0mm_Ch47_ANT 1

Device Under Test Properties

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
Intel	AX211D2W	RANTCVN0003240A	Bottom of laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	U-NII-5	WLAN, 10755 - AAC	6185.0, 47	5.65	5.43	32.6

Hardware Setup

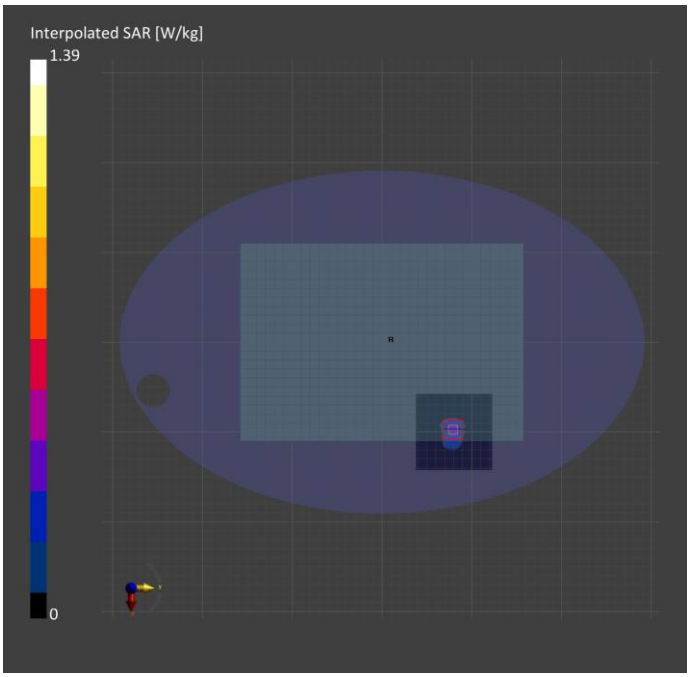
Phantom	Tissue Simulating Liquid	Probe | Calibration Date	DAE | Calibration Date
ELI V5.0 (20deg probe tilt) - 1175	H51T71N2	EX3DV4 - SN7647 / 2023-04-26	DAE4 Sn1253 / 2022-12-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-*1g* [W/kg]	0.320	**0.327**
psSAR-*10g* [W/kg]	0.111	**0.109**
psAPD (*1.0 cm²*, sq) [W/m²]		**3.27**
psAPD (*4.0 cm²*, sq) [W/m²]		**2.53**
Power Drift [dB]		-0.10
TSL Correction	Positive only	Positive only
M2 / M1 [%]		57.7
Dist 3dB Peak [mm]		8.2



Test Date : 2023-11-11 | Ambient Temp : 23.0 °C

Test Mode

1007_WLAN 6 GHz_802.11ax HE160_Bottom of laptop_2mm_Ch47_ANT 1

Device Under Test Properties

Manufacturer or Brand	Model No. or Code Name	Sample No. or IMEI	DUT Type
Intel	AX211D2W	RANTCVN0003240A	Bottom of laptop

Exposure Conditions

Phantom Section	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	U-NII-5	WLAN, 10755 - AAC	6185.0, 47	1.0

Hardware Setup

Phantom	Medium	Probe | Calibration Date	DAE | Calibration Date
mmWave - 5G Phantom	Air	EUmmWV4 - SN9639_F1-55GHz / 2023-08-18	DAE4 Sn1253 / 2022-12-16

Scan Setup

	5G Scan
Grid Extents [mm]	97.0 x 97.0
Grid Steps [mm]	0.0515 x 0.0515
Sensor Surface [mm]	2.0

Measurement Results

	5G Scan
Avg. Area [cm²]	4.00
psPD n+ [W/m²]	**2.18**
psPD tot+ [W/m²]	**4.99**
psPD mod+ [W/m²]	15.9
E max [V/m]	74.0
Power Drift [dB]	-0.03