



S Schweizerischer Kalibrierdier C Service suisse d'étalonnage

Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Client

UL Korea (Dymstec)

Certificate No: 5G-Veri30-1047_Jan21

CALIBRATION CERTIFICATE Object 5G Verification Source 30 GHz - SN: 1047 Calibration procedure(s) QA CAL-45.v3 Calibration procedure for sources in air above 6 GHz Calibration date: January 22, 2021 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 \pm 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID# Cal Date (Certificate No.) Scheduled Calibration Reference Probe EUmmWV3 SN: 9374 30-Dec-20 (No. EUmmWV3-9374_Dec20) Dec-21 DAE4ip SN: 1602 11-Aug-20 (No. DAE4ip-1602_Aug20) Aug-21 Secondary Standards ID# Check Date (in house) Scheduled Check Name Function Calibrated by: Michael Weber Laboratory Technician Approved by: Katja Pokovic Technical Manager

Issued: January 27, 2021

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Certificate No: 5G-Veri30-1047_Jan21

Page 1 of 7





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Multilateral Agreement for the recognition of calibration certificates

Glossary

CW

Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45-5Gsources
- IEC TR 63170 ED1, "Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz", January 2018

Methods Applied and Interpretation of Parameters

- Coordinate System: z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and horn flange.
- Measurement Conditions: (1) 10 GHz: The forward power to the horn antenna is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by far-field measurements. (2) 30, 45, 60 and 90 GHz. The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections.
- Horn Positioning: The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- E- field distribution: E field is measured in two x-y-plane (10mm, 10mm + λ /4) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-field-maxima and the averaged (1cm² and 4cm²) power density values at 10mm in front of the horn.
- Field polarization: Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

Calibrated Quantity

 Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m²) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: 5G-Veri30-1047_Jan21

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	cDASY6 Module mmWave	V2.2
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
XY Scan Resolution	dx, dy = 2.5 mm	
Number of measured planes	2 (10mm, 10mm + λ/4)	<u> </u>
Frequency	30 GHz ± 10 MHz	

Calibration Parameters, 30 GHz

Circular Averaging

Distance Horn Aperture to Measured Plane		Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	61.9	185	1.27 dB	78.0	68.9	1.28 dB

Square Averaging

to Measured Plane Prad¹ (mW)		Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m²)		Uncertainty (k = 2)
			1 cm ²	4 cm ²		
10 mm	61.9	185	1.27 dB	78.0	68.7	1.28 dB

¹ derived from far-field data

Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties

Name, ManufacturerDimensions [mm]IMEIDUT Type5G Verification Source 30 GHz100.0 x 100.0 x 100.0SN: 1047

Exposure Conditions

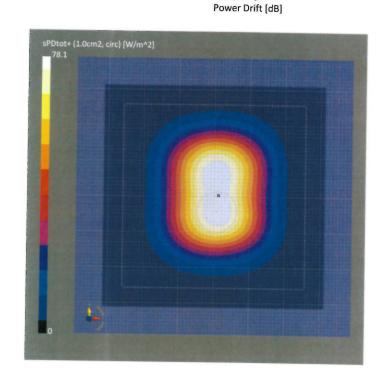
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0, 30000	1.0

Hardware Setup

Medium Air	Probe, Calibration Date EUmmWV3 - SN9374_F1-78GHz, 2020-12-30	DAE, Calibration Date DAE4ip Sn1602, 2020-08-11
	2020 12 30	2020-08-11
	2000	Air EUmmWV3 - SN9374_F1-78GHz,

Scan Setup

Grid Steps [lambda] 60.0 x 60.0 Date 2021-01-22, 13 Sensor Surface [mm] 5.55 psPDn+ [W/m²] MAIA MAIA not used psPDtot+ [W/m²] Emax [V/m] Prover Prift [dp]	teps [lambda] r Surface [mm]	5 G Scan 2021-01-22, 13:00 1.00 77.5 78.1 78.3 185 -0.03
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Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties

Dimensions [mm] Name, Manufacturer IMEI **DUT Type** 5G Verification Source 30 GHz 100.0 x 100.0 x 100.0 SN: 1047

Exposure Conditions

Phantom Section Position, Test Distance Band Group, Frequency [MHz], **Conversion Factor** [mm] **Channel Number** 5G -5.55 mm 30000.0, Validation band CW 30000

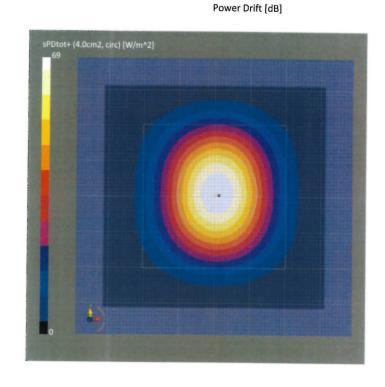
Hardware Setup Phantom Medium **Probe, Calibration Date** DAE, Calibration Date mmWave Phantom - 1002 Air EUmmWV3 - SN9374_F1-78GHz, DAE4ip Sn1602, 2020-12-30

2020-08-11

-0.03

Scan Setup

5G Scan 5G Scan Grid Extents [mm] 60.0 x 60.0 Date 2021-01-22, 13:00 Grid Steps [lambda] 0.25 x 0.25 Avg. Area [cm²] 4.00 Sensor Surface [mm] 5.55 psPDn+ [W/m²] 68.3 MAIA psPDtot+ [W/m²] MAIA not used 69.0 psPDmod+ [W/m²] 69.3 E_{max} [V/m] 185



Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties

Name, ManufacturerDimensions [mm]IMEIDUT Type5G Verification Source 30 GHz100.0 x 100.0 x 100.0SN: 1047

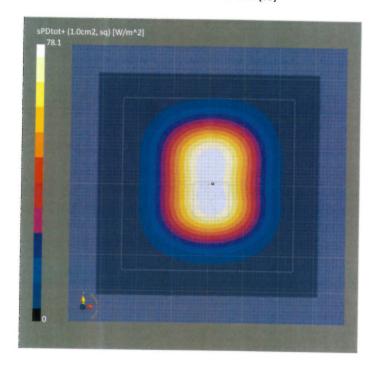
Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0, 30000	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-78GHz, 2020-12-30	DAE4ip Sn1602, 2020-08-11

Scan Setup

	5G Scan		FC C
Grid Extents [mm] Grid Steps [lambda] Sensor Surface [mm]	60.0 x 60.0 0.25 x 0.25	Date Avg. Area [cm²]	5G Scan 2021-01-22, 13:00 1.00
MAIA	5.55 MAIA not used	psPDn+ [W/m²] psPDtot+ [W/m²] psPDmod+ [W/m²]	77.5 78.1 78.4
		E _{max} [V/m] Power Drift [dB]	185



Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Band

Device under Test Properties

Name, Manufacturer 5G Verification Source 30 GHz

Dimensions [mm] 100.0 x 100.0 x 100.0

IMEI SN: 1047 **DUT Type**

Exposure Conditions

Phantom Section

Position, Test Distance

Group,

Frequency [MHz], Channel Number

Conversion Factor

5G -

[mm] 5.55 mm

Validation band

cw

30000.0, 30000 1.0

Hardware Setup

Phantom

mmWave Phantom - 1002

Medium Air Probe, Calibration Date

EUmmWV3 - SN9374_F1-78GHz,

2020-12-30

DAE, Calibration Date

DAE4ip Sn1602, 2020-08-11

Scan Setup

Grid Extents [mm] Grid Steps [lambda] Sensor Surface [mm]

MAIA

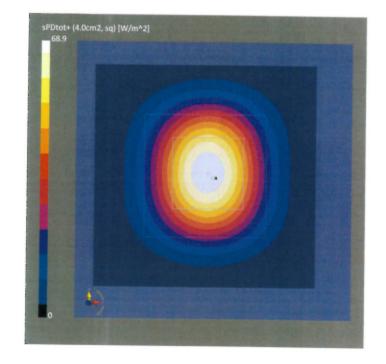
5G Scan 60.0 x 60.0 0.25 x 0.25

MAIA not used

Measurement Results

Date
Avg. Area [cm²]
psPDn+ [W/m²]
psPDtot+ [W/m²]
psPDmod+ [W/m²]
E_{max} [V/m]
Power Drift [dB]

5G Scan 2021-01-22, 13:00 4.00 68.1 68.9 69.1 185 -0.03







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Client

UL Korea (Dymstec)

Certificate No: 5G-Veri30-1082 Apr21

Issued: April 8, 2021

CALIBRATION CERTIFICATE Object 5G Verification Source 30 GHz - SN: 1082 Calibration procedure(s) QA CAL-45.v3 Calibration procedure for sources in air above 6 GHz April 07, 2021 Calibration date: This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) **Primary Standards** ID# Cal Date (Certificate No.) Scheduled Calibration Reference Probe EUmmWV3 SN: 9374 30-Dec-20 (No. EUmmWV3-9374_Dec20) Dec-21 DAE4ip SN: 1602 11-Aug-20 (No. DAE4ip-1602_Aug20) Aug-21 Secondary Standards ID# Check Date (in house) Scheduled Check Name **Function** Signature Calibrated by: Leif Klysner Laboratory Technician Approved by: Katja Pokovic **Technical Manager**

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Glossary

CW

Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45-5Gsources
- IEC TR 63170 ED1, "Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz", January 2018

Methods Applied and Interpretation of Parameters

- Coordinate System: z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and horn flange.
- Measurement Conditions: (1) 10 GHz: The forward power to the horn antenna is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by far-field measurements. (2) 30, 45, 60 and 90 GHz: The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections.
- Horn Positioning: The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- E- field distribution: E field is measured in two x-y-plane (10mm, 10mm + λ/4) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-field-maxima and the averaged (1cm² and 4cm²) power density values at 10mm in front of the horn.
- Field polarization: Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

Calibrated Quantity

 Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m²) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	cDASY6 Module mmWave	V2.2
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
XY Scan Resolution	dx, dy = 2.5 mm	
Number of measured planes	2 (10mm, 10mm + \(\lambda\)4)	
Frequency	30 GHz ± 10 MHz	

Calibration Parameters, 30 GHz

Circular Averaging

to Measured Plane Prad¹ (mW)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	42.9	152	1.27 dB	53.4	46.9	1.28 dB

Square Averaging

Distance Horn Aperture to Measured Plane (mW)			Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	42.9	152	1.27 dB	53.5	46.7	1.28 dB

Certificate No: 5G-Veri30-1082_Apr21

¹ derived from far-field data

Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

)evice under Test Properties

ame, Manufacturer	Dimensions [mm]	IMEI	7 <u>2</u> 7 (12.75)
.G Verification Source 30 GHz	100.0 x 100.0 x 100.0	3111.5.55	DUT Type
50 G112	0.001 X 100.0 X 100.0	SN: 1082	-

Exposure Conditions

Frantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz],	Conversion Factor
5ì-	5.55 mm			Channel Number	
	3.33 11111	Validation band	CW	30000.0,	1.0

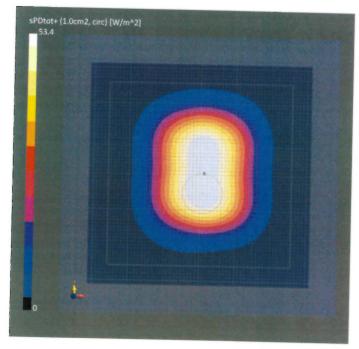
Mardware Setup

Plantom	Medium	Probe, Calibration Date	
nWave Phantom - 1002	Air		DAE, Calibration Date
		EUmmWV3 - SN9374_F1-78GHz,	DAE4ip Sn1602,
		2020-12-30	2020-08-11

Scan Setup

Call F. A	5G Scan	
Grid Extents [mm]	60.0 x 60.0	Date
Grid Steps [lambda]	0.25 x 0.25	Avg. Area [cm²]
Sensor Surface [mm]	5.55	psPDn+ [W/m²]
Jena	MAIA not used	psPDtot+ [W/m ²]
		psPDmod+ [W/m²]

Date	5G Scan
Avg. Area [cm²]	2021-04-07, 10:17
psPDn+ [W/m²]	1.00
psPDtot+ [W/m²]	53.1
psPDmod+ [W/m²]	53.4
E _{max} [V/m]	53.6
Power Drift [dB]	152
	-0.07



Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

evice under Test Properties ame, Manufacturer

Jame, Manufacturer	Dimensions [mm]	IMEI	5	
5 Verification Source 30	GHz 100.0 x 100.0 x 1	0.00	SN: 1082	DUT Type	
Exposure Conditions		_			
	Position, Test Distance	Band	Group,	Frequency [MHz].	Conversion Factor

	Plantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz],	Conversion Factor
51.	5.55 mm	Mattal in the s		Channel Number		
	3.33 11111	Validation band	CW	30000.0, 30000	1.0	

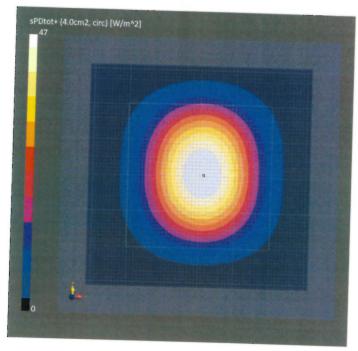
→ ardware Setup

Plantom	Medium	Probe, Calibration Date	P45
nWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-78GHz, 2020-12-30	DAE, Calibration Date DAE4ip Sn1602, 2020-08-11

SCan Setup

5G Scan
60.0 x 60.0
0.25 x 0.25
5.55
MAIA not used

Date	5G Scan
Avg. Area [cm²]	2021-04-07, 10:17
psPDn+ [W/m²]	4.00
psPDtot+ [W/m²]	46.5
psPDmod+ [W/m²]	47.0
E _{max} [V/m]	47.1
Power Drift [dB]	152
(45)	-0.07



Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
5G Verification Source 30 GHz	$100.0 \times 100.0 \times 100.0$	SN: 1082		

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0, 30000	1.0

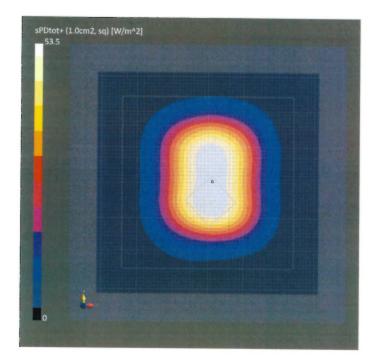
Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-78GHz, 2020-12-30	DAE4ip Sn1602, 2020-08-11

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55
MAIA	MAIA not used

	5G Scan
Date	2021-43-07, 10:17
Avg. Area [cm ²]	1.00
psPDn+ [W/m²]	53.1
psPDtot+ [W/m ²]	53.5
psPDmod+ [W/m²]	53.7
E _{max} [V/m]	152
Power Drift [dB]	-0.07



Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
5G Verification Source 30 GHz	100.0 x 100.0 x 100.0	SN: 1082		

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0, 30000	1.0

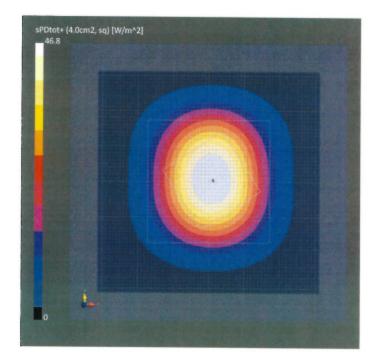
Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-78GHz, 2020-12-30	DAE4ip Sn1602, 2020-08-11

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55
MAIA	MAIA not used

	5G Scan
Date	2021-04-07, 10:17
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	46.3
psPDtot+ [W/m ²]	46.8
psPDmod+ [W/m ²]	47.0
E _{max} [V/m]	152
Power Drift [dB]	-0.07



Appendix: Source Evaluation for Relative System Check

Measurement Equipment

DASY system configuration, as far as not given on page 1.

Item	ID#	Cal Date (Certificate No.)
Probe EUmmWV4	SN: 9559	01-Apr-21

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	cDASY6 Module mmWave	V2.2
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
XY Scan Resolution	dx, dy = 2.5 mm	
Number of measured planes	2 (10mm, 10mm + λ/4)	
Frequency	30 GHz ± 10 MHz	

Calibration Parameters, 30 GHz

Circular Averaging

Distance Horn Aperture to Measured Plane	Prad² (mW)	Max E-field (V/m)	Uncertainty Avg Power Density (k = 2) Avg (psPDn+, psPDtot+, psPDmod+) (W/m²)		PDtot+, psPDmod+)	Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	42.9	151	1.27 dB	49.8	43.1	1.28 dB

Square Averaging

Distance Horn Aperture to Measured Plane	Prad² (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	42.9	151	1.27 dB	49.9	43.1	1.28 dB

 $^{^{2}}$ derived from far-field data

Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
5G Verification Source 30 GHz	100.0 x 100.0 x 100.0	SN: 1082	-	

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0, 30000	1.0

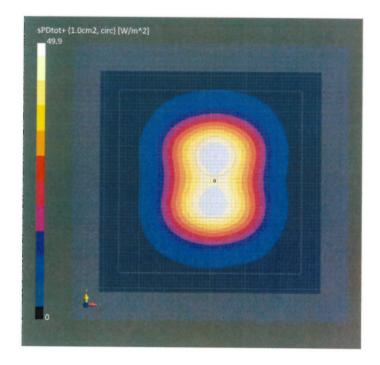
Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV4 - SN9559_F1-55GHz,	DAE4ip Sn1602,
		2021-04-01	2020-08-11

Scan Setup

	JO Scall
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55
MAIA	MAIA not used

2021-04-07, 16:19
1.00
49.5
49.9
50.0
151
-0.08



Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 30 GHz	100.0 x 100.0 x 100.0	SN: 1082	

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0,	1.0

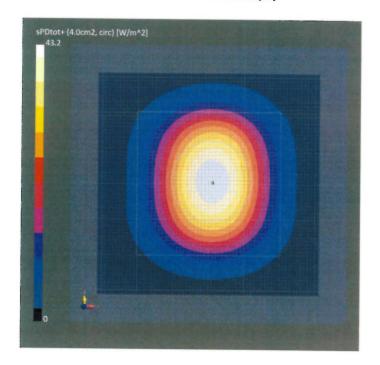
Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV4 - SN9559_F1-55GHz,	DAE4ip Sn1602,
		2021-04-01	2020-08-11

Scan Setup

	5G Scan	
Grid Extents [mm]	60.0 x 60.0	Date
Grid Steps [lambda]	0.25 x 0.25	Avg. Area [c
Sensor Surface [mm]	5.55	psPDn+ [W/
MAIA	MAIA not used	psPDtot+ [V
		ncDDmad

	5G Scan
Date	2021-04-07, 16:19
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	42.7
psPDtot+ [W/m ²]	43.2
psPDmod+ [W/m²]	43.3
E _{max} [V/m]	151
Power Drift [dB]	-0.08



Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties Name, Manufacturer

Name, Manufacturer	Dimensions [mm	1]	IMEI	DUT Type	
5G Verification Source	30 GHz 100.0 x 100.0 x 1	100.0	SN: 1082	-	
Exposure Condition	ons				
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0,	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE C.III. II
mmWave Phantom - 1002	Air	EUmmWV4 - SN9559_F1-55GHz, 2021-04-01	DAE, Calibration Date DAE4ip Sn1602, 2020-08-11

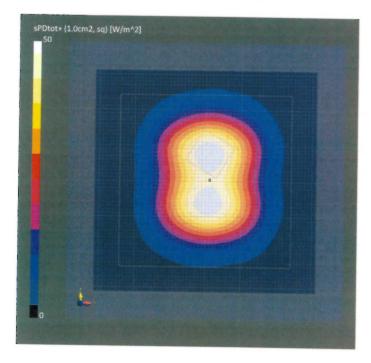
Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55
MAIA	MAIA not used

Measurement Results

30000

	5G Scan
Date	2021-04-07, 16:19
Avg. Area [cm ²]	1.00
psPDn+ [W/m²]	49.6
psPDtot+ [W/m²]	50.0
psPDmod+ [W/m²]	50.1
E _{max} [V/m]	151
Power Drift [dB]	-0.08



Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm	1]	IMEI	DUT Type	
5G Verification Source	30 GHz 100.0 x 100.0 x 1	100.0	SN: 1082	-	
Exposure Condition	ons				
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0, 30000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV4 - SN9559_F1-55GHz, 2021-04-01	DAE4ip Sn1602, 2020-08-11

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55
MAIA	MAIA not used

	5G Scan
Date	2021-04-07, 16:19
Avg. Area [cm ²]	4.00
psPDn+ [W/m²]	42.7
psPDtot+ [W/m²]	43.2
psPDmod+ [W/m ²]	43.3
E _{max} [V/m]	151
Power Drift [dB]	-0.08

