



## **Measurement Conditions**

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

DASY Version	cDASY6 Module mmWave	V2.4
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	Prad' (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg (psPDn+, psl	er Density PDtot+, psPDmod+) /m <sup>2</sup> )	Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	78.0	213	1.27 dB	101	83.7	1.28 dB

### Square Averaging

Distance Horn Aperture to Measured Plane	Prad¹ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg (psPDn+, psl	er Density PDtot+, psPDmod+) /m <sup>2</sup> )	Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	78.0	213	1.27 dB	101	83.1	1.28 dB

<sup>1</sup> derived from far-field data

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

Medium

Air

Device under Test F Name, Manufacturer 5G Verification Source 30	Dimensions (mm		IMEI SN: 1052	DUT Type	
Exposure Condition Phantom Section	S 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 mmWave Phantom - 1002

### Scan Setup

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

	5G Scan
60	.0 x 60.0
0.2	25 x 0.25
	5.55

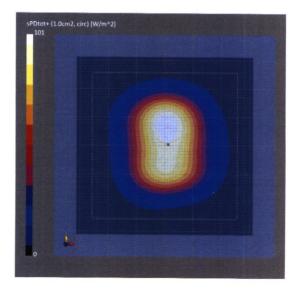
Probe, Calibration Date EUmmWV3 - SN9374\_F1-78GHz, 2020-12-30

Measurement Results

Date Avg. Area [cm<sup>2</sup>] psPDn+ [W/m<sup>2</sup>] psPDtot+ [W/m<sup>2</sup>] psPDmod+ [W/m<sup>2</sup>] E<sub>max</sub> [V/m] Power Drift [dB]

5G Scan
2021-11-16, 19:16
1.00
100
101
101
213
-0.02

DAE, Calibration Date DAE4ip Sn1602, 2021-06-25



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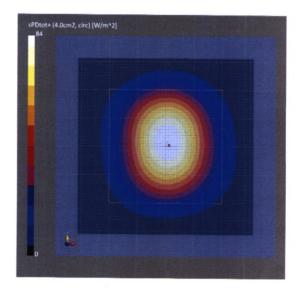


Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

#### **Device under Test Properties**

Name, Manufacturer	Dimensions (mm	1]	IMEI	DUT Type	
5G Verification Source 30 G	Hz 100.0 x 100.0 x 1	100.0	SN: 1052		
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, Calibr	ration Data	
mmWave Phantom - 1002	Air			SN9374_F1-78GHz,	DAE, Calibration Date DAE4ip Sn1602, 2021-06-25

5G Scan 2021-11-16, 19:16 4.00 82.9 84.0 84.2 213 -0.02



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

#### **Device under Test Properties**

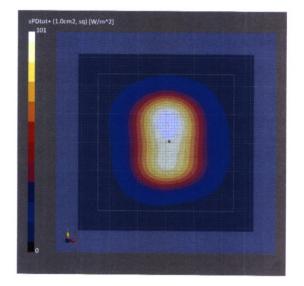
Name, Manufacturer	Dimensions [mm	]	IMEI	DUT Type	
5G Verification Source 30 G	Hz 100.0 x 100.0 x 1	.00.0	SN: 1052		
Exposure Conditions	Position, Test Distance	R			
Filantoin Section	[mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	5.55 mm	Validation band	CW	30000.0, 30000	1.0
Hardware Setup					
Phantom mmWave Phantom - 1002	Medium		Probe, Calib		DAE, Calibration Date DAE4ip Sn1602.
			2020-12-30	_	2021-06-25

## Scan Setup

bean becap		ivie
	5G Scan	
Grid Extents [mm]	60.0 x 60.0	Da
Grid Steps [lambda]	0.25 x 0.25	Av
Sensor Surface [mm]	5.55	ps
MAIA	MAIA not used	ps

	Measurement Results
Scan	
60.0	Date
0.25	Avg. Area [cm <sup>2</sup> ]
5.55	psPDn+ [W/m <sup>2</sup> ]
used	psPDtot+ [W/m <sup>2</sup> ]
	psPDmod+ [W/m <sup>2</sup> ]
	E <sub>max</sub> [V/m]
	Power Drift [dB]

5G Scan
2021-11-16, 19:16
1.00
100
101
101
213
-0.02



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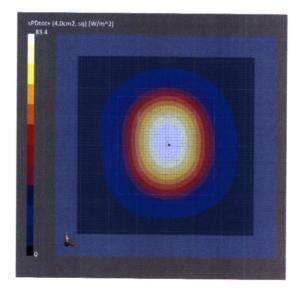
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Measurement Report for 5G Verification Source 30 GHz, UID 0 -, Channel 30000 (30000.0MHz)

Device under Test Pro Name, Manufacturer 5G Verification Source 30 G	Dimensions (mm		IMEI 5N: 1052	DUT Type -	
<b>Exposure Conditions</b>					
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 mmWave Phantom - 1002	<b>Medium</b> Air		EUn	<b>be, Calibration Date</b> nmWV3 - SN9374_F1-78GHz, 10-12-30	DAE, Calibration Date DAE4ip Sn1602, 2021-06-25
Scan Setup			Me	asurement Results	
Grid Extents [mm] Grid Steps [lambda] Sensor Surface [mm] MAIA		5G Sc 60.0 x 6( 0.25 x 0, 5. MAIA not us	0.0 Da 25 Av 55 ps ed ps ps Em	te g. Area [cm <sup>2</sup> ] PDn+ [W/m <sup>2</sup> ] PDtot+ [W/m <sup>2</sup> ] PDmod+ [W/m <sup>2</sup> ] <sub>ax</sub> [V/m] wer Drift [dB]	5G Scan 2021-11-16, 19:16 4.00 82.3 83.4 83.5 213 -0.02



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# ANNEX F Accreditation Certificate





# Accredited Laboratory

A2LA has accredited

# **TELECOMMUNICATION TECHNOLOGY LABS, CAICT**

Beijing, People's Republic of China

for technical competence in the field of

# **Electrical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 26<sup>th</sup> day of June 2023.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 7049.01 Valid to July 31, 2024

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.