

FCC RADIO EXPOSURE TEST REPORT

FCC ID : Z8H89FT0047

Equipment : ePMP 5GHz Force 300 CSM RADIO/ePMP 3000L 5GHz

Access Point Radio

Brand Name : Cambium Networks

Model Name : ePMP 5GHz Force 300 CSM RADIO/ePMP 3000L 5GHz

Access Point Radio

Applicant : Cambium Networks Inc.

3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA

Manufacturer : Cambium Networks Inc.

3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA

Standard: 47 CFR Part 2.1091

The product was received on Jan. 15, 2019, and testing was started from Jan. 21, 2019 and completed on Jan. 23, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091, KDB447498 D01 General RF Exposure Guidance v06 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Cliff Change

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52. Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

TEL: 886-3-656-9065 FAX: 886-3-656-9085

Report Template No.: CB Ver1.0

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Issued Date : Oct. 09, 2019

Report Version : 01

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Report No.: FA880825-04

Report Version : 01

History of this test report

Report No.: FA880825-04

Report No.	Version	Description	Issued Date
FA880825-04	01	Initial issue of report	Oct. 09, 2019

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Vicky Huang

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1 General Description

1.1 EUT General Information

	RF General Information							
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type					
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5720 5745-5825	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)					

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Note1: The EUT supports 20MHz bandwidth and 80MHz bandwidth.

Note2: While frame-based mechanism is implemented, the test procedure is the same with regular IEEE 802.11a/n/ac devices.

1.2 Antenna Information

Set	Ant.	Port	Brand	P/N	Туре	Connector	Gain (dBi)
1	1	1	Cambium	C050900D007B	Dish	Reversed-SMA	25
'	'	2	Cambium	C050900D007B	Dish	Reversed-SMA	25
Set	Ant.	Port	Brand	P/N	Туре	Connector	Gain (dBi)
2	2	1	ANATEL	C050900D021	Array	Reversed-SMA	17
		2	ANATEL	C050900D021	Array	Reversed-SMA	17
Set	Ant.	Port	Brand	Model Name	Туре	Connector	Gain (dBi)
	3	1	ABRACON	APAMS-121	Dipole	Reversed-SMA	2
3	4	2	ABRACON	APAMS-121	Dipole	Reversed-SMA	2

Note 1:

Set	Support Function							
Set	2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4			
1	V	V	V	V	V			
2	V	X	V	V	V			
3	V	X	V	V	V			

Note 2: The above information was declared by manufacturer.

Note 3: The EUT has three sets of antenna.

Note 4: Set 1 antenna has one antenna, and it has two connectors.

Note 5: Set 2 antenna has one antenna, and it has two connectors.

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Note 6: Set 3 antenna contains two antennas, and the array gain is 0dBi.

For IEEE 802.11a/n/ac mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

1.3 Table for Multiple Listing

The equipment names/model names in the following table are all refer to the identical product.

EUT	Equipment Name / Model Name	GPS Function	WIFI Filter Function
1	ePMP 5GHz Force 300 CSM RADIO	No	Yes
2	ePMP 3000L 5GHz Access Point Radio	Yes	Yes

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From the above models, EUT 1 was selected as representative model for the test and its data was recorded in this report.

1.4 Table for Class III Change

This product is an extension of original one reported under Sporton project number: FA880825-02 Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding U-NII-1 (5150~5250 MHz) for this device and equiping with antenna gain 25dBi only.	Maximum Permissible Exposure

Note: Maximum Permissible Exposure of 5GHz band 2, band 3 and band 4 are based on original test report.

1.5 Testing Location

	Testing Location							
	HWA YA ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.							
		TEL	:	886-3-327-3456 FAX : 886-3-327-0973				
\boxtimes	JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.				
		TEL	:	886-3-656-9065 FAX : 886-3-656-9085				

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

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2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	, g , (-,		Averaging Time E ², H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

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(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Method

The MPE was calculated at 129 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E (V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $Pd (W/m^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

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2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

For Set 1 antenna:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
5.2G;D1D	25.00	11.52	36.52	0.50	37.02	5.03501	129	0.02408	1.00000
5.3G;D1D	25.00	3.71	28.71	0.50	29.21	0.83368	129	0.00399	1.00000
5.6G;D1D	25.00	3.50	28.50	0.50	29.00	0.79433	129	0.00380	1.00000
5.8G;D1D	25.00	27.57	52.57	0.50	53.07	202.76827	129	0.96962	1.00000

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Note: The above antenna gain was declared by manufacturer.

For Set 2 antenna:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
5.3G;D1D	17.00	11.80	28.80	0.50	29.30	0.85114	129	0.00407	1.00000
5.6G;D1D	17.00	12.79	29.79	0.20	29.99	0.99770	129	0.00477	1.00000
5.8G;D1D	17.00	18.90	35.90	0.09	35.99	3.97192	129	0.01899	1.00000

Note: The above antenna gain was declared by manufacturer.

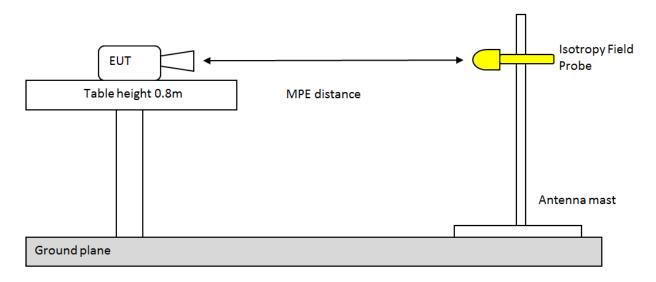
For Set 3 antenna:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
5.3G;D1D	2.00	23.93	25.93	0.50	26.43	0.43954	129	0.00210	1.00000
5.6G;D1D	2.00	23.93	25.93	0.50	26.43	0.43954	129	0.00210	1.00000
5.8G;D1D	2.00	27.64	29.64	0.50	30.14	1.03276	129	0.00494	1.00000

Note: The above antenna gain was declared by manufacturer.

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2.4 MPE Measurement Method



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Horizontal Plane

- 1. Align Probe with antenna axis. Probe should same height as Antenna axis.
 - And take power density measurement with Probe.
- 2. Rotate table 45 degree (30 degree if MPE distance is more 60cm).
 - Take power density measurement again.
- 3. Repeat step 2, until complete 360 degree.
 - Each measured power density should be less than MPE limit.

Vertical Plane

- 1. Align Probe with antenna axis. Move probe to height of 10cm above ground plane.
 - Take power density measurement.
 - Then repeat measure with 10cm increment of probe height until 180 cm.
- 2. Rotate table 45 degree (30 degree if MPE distance is more 60cm).
 - Repeat the power density measure from 10cm to 180cm
- 3. Repeat step 2, until complete 360 degree.
 - Spatial Average of same vertical plane should be less then MPE limit.

For Probe or measurement equipment requirement, please see FCC OET Bulletin 65 97-01

Note:

Either peak or spatially averaged results may be applied to determine compliance; and with respect to plane-wave equivalent power density limits when ≥ 300 MHz, and electric and magnetic field strength limits when < 300 MHz.

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2.5 Measurement Result and Limit

For Set 1 antenna:

		Test		MPE						
Test Mode	11a	Frequency	5745	Distance	129	Power	2	7		
1001040		(MHz)		(cm)	0	Setting	_			
EUT Plane		(= /	l	Horizo	ontal	1				
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°		
Drobe beight (om)	0~40	45~50	30~133	133~100	100~223	ZZJ~ZIO	270~313	313~300		
Probe height (cm) \	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD		
Deg	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)		
209	0.07521	0.00102	0.00131	0.00077	0.00082	0.00109	0.00111	0.08613		
Max PSD (mW/cm²)	0.07021	0.00102	0.00101	0.08		0.00100	0.00111	0.00010		
MPE Limit (mW/cm²)				1	310					
EUT Plane		Vertical								
	0~45°									
Probe height (cm) \										
Deg	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD		
• 3	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)		
10	0.00227	0.00048	0.00067	0.00037	0.00025	0.00034	0.00055	0.00137		
20	0.00317	0.00162	0.00168	0.00102	0.00046	0.00053	0.00068	0.00234		
30	0.00762	0.00234	0.00221	0.00065	0.00043	0.00070	0.00127	0.00684		
40	0.01137	0.00123	0.00115	0.00051	0.00032	0.00048	0.00083	0.01128		
50	0.01329	0.00146	0.00106	0.00085	0.00034	0.00038	0.00065	0.01239		
60	0.01452	0.00112	0.00118	0.00076	0.00034	0.00032	0.00066	0.01507		
70	0.01356	0.00097	0.00084	0.00078	0.00051	0.00031	0.00060	0.01743		
80	0.01208	0.00176	0.00092	0.00087	0.00041	0.00039	0.00062	0.01612		
90	0.04081	0.00188	0.00125	0.00098	0.00049	0.00043	0.00081	0.02025		
100	0.05316	0.00102	0.00134	0.00142	0.00052	0.00038	0.00050	0.03053		
110	0.05032	0.00124	0.00089	0.00175	0.00058	0.00038	0.00061	0.03392		
120	0.03827	0.00168	0.00119	0.00151	0.00033	0.00038	0.00040	0.03141		
130	0.03187	0.00165	0.00174	0.00094	0.00020	0.00053	0.00067	0.03735		
140	0.01746	0.00143	0.00153	0.00081	0.00017	0.00057	0.00073	0.01853		
150	0.00941	0.00135	0.00126	0.00071	0.00029	0.00038	0.00090	0.00781		
160	0.00483	0.00164	0.00157	0.00073	0.00028	0.00033	0.00094	0.00468		
170	0.00301	0.00162	0.00114	0.00058	0.00019	0.00035	0.00076	0.00287		
180	0.00094	0.00145	0.00157	0.00041	0.00028	0.00030	0.00058	0.00085		
Spatial Average (mW/cm²)	0.01822	0.001441111	0.001288333	0.000869444	0.000355	0.000415556	0.000708889	0.015057944		
Max Spatial Average		1	1	1		1				
(mW/cm²)				0.01	822					
MPE Limit (mW/cm²)				1						

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Test Mode	11a	Test Frequency (MHz)	5785	MPE Distance (cm)	129	Power Setting	2	7			
EUT Plane				Horiz	ontal						
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°			
Probe height (cm) \ Deg	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)			
209	0.14052	0.00187	0.00282	0.00141	0.00157	0.00163	0.00196	0.16038			
Max PSD (mW/cm²)		·		0.16	038						
MPE Limit (mW/cm²)		1									
EUT Plane				Vert	ical						
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°			
Probe height (cm) \ Deg	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)			
10	0.00188	0.00061	0.00124	0.00128	0.00079	0.00043	0.00092	0.00178			
20	0.00586	0.00175	0.00267	0.00264	0.00093	0.00089	0.00124	0.00388			
30	0.01025	0.00293	0.00315	0.00137	0.00083	0.00132	0.00169	0.00934			
40	0.01909	0.00223	0.00212	0.00114	0.00078	0.00072	0.00097	0.01879			
50	0.02153	0.00106	0.00239	0.00212	0.00060	0.00093	0.00083	0.02114			
60	0.02265	0.00216	0.00247	0.00119	0.00079	0.00063	0.00078	0.02318			
70	0.01706	0.00131	0.00197	0.00137	0.00136	0.00047	0.00048	0.02058			
80	0.01677	0.00185	0.00157	0.00156	0.00117	0.00057	0.00076	0.02826			
90	0.07192	0.00226	0.00164	0.00245	0.00068	0.00073	0.00097	0.03751			
100	0.11753	0.00246	0.00289	0.00417	0.00065	0.00075	0.00084	0.05332			
110	0.09243	0.00155	0.00203	0.00391	0.00135	0.00066	0.00063	0.04987			
120	0.06113	0.00230	0.00265	0.00346	0.00066	0.00069	0.00085	0.05128			
130	0.04993	0.00212	0.00276	0.00209	0.00047	0.00099	0.00114	0.05693			
140	0.02639	0.00203	0.00228	0.00135	0.00050	0.00063	0.00095	0.02894			
150	0.01236	0.00271	0.00209	0.00103	0.00072	0.00043	0.00068	0.01325			
160	0.01262	0.00243	0.00247	0.00091	0.00042	0.00038	0.00091	0.01258			
170	0.00375	0.00285	0.00286	0.00107	0.00051	0.00046	0.00113	0.00383			
180	0.00234	0.00167	0.00178	0.0008	0.00045	0.00063	0.00085	0.00235			
Spatial Average (mW/cm²)	0.03142	0.00202	0.00228	0.00188	0.00076	0.00068	0.00092	0.02427			
Max Spatial Average (mW/cm²)				0.03	142						
MPE Limit (mW/cm²)				1							

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Test Mode	11a	Test Frequency (MHz)	5825	MPE Distance (cm)	129	Power Setting	2	7			
EUT Plane				Horiz	ontal						
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°			
Probe height (cm) \ Deg	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)			
209	0.15824	0.00226	0.00318	0.00157	0.00201	0.00166	0.00134	0.19732			
Max PSD (mW/cm²)				0.19	732						
MPE Limit (mW/cm²)		1									
EUT Plane		Vertical									
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°			
Probe height (cm) \ Deg	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)			
10	0.00135	0.00078	0.00163	0.00164	0.00093	0.00032	0.00109	0.00167			
20	0.00492	0.00121	0.00288	0.00303	0.00127	0.00105	0.00114	0.00259			
30	0.01479	0.00335	0.00471	0.00170	0.00102	0.00167	0.00156	0.01287			
40	0.01775	0.00229	0.00237	0.00199	0.00085	0.00094	0.00125	0.01782			
50	0.02137	0.00216	0.00327	0.00257	0.00063	0.00083	0.00081	0.01862			
60	0.02094	0.00211	0.00230	0.00168	0.00114	0.00087	0.00103	0.02119			
70	0.01762	0.00191	0.00211	0.00153	0.00147	0.00053	0.00102	0.01963			
80	0.01345	0.00191	0.00233	0.00207	0.00169	0.00075	0.00098	0.02678			
90	0.08369	0.00171	0.00154	0.00368	0.00143	0.00076	0.00107	0.03358			
100	0.01347	0.00222	0.00337	0.00583	0.00165	0.00091	0.00129	0.05667			
110	0.09682	0.00187	0.00289	0.00587	0.00184	0.00063	0.00065	0.05257			
120	0.05664	0.00203	0.00401	0.00486	0.00083	0.00082	0.00136	0.05238			
130	0.04162	0.00239	0.00259	0.00237	0.00051	0.00085	0.00093	0.04619			
140	0.02739	0.00236	0.00225	0.00207	0.00061	0.00045	0.00110	0.02703			
150	0.01302	0.00286	0.00304	0.00157	0.00062	0.00049	0.00072	0.01458			
160	0.01145	0.00221	0.00258	0.00123	0.00071	0.00051	0.00088	0.01138			
170	0.00498	0.00237	0.00252	0.00117	0.00078	0.00037	0.00103	0.00458			
180	0.00235	0.00186	0.00237	0.00139	0.00073	0.00040	0.00083	0.00238			
Spatial Average (mW/cm²)	0.02576	0.00209	0.00271	0.00257	0.00104	0.00073	0.00104	0.02347			
Max Spatial Average (mW/cm²)				0.02	576						
MPE Limit (mW/cm²)				1							

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Test Mode	11ac VHT20	Test Frequency (MHz)	5745	MPE Distance (cm)	129	Power Setting	2	7				
EUT Plane				Horiz	ontal							
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°				
Probe height (cm) \ Deg	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)				
209	0.09228	0.00093	0.00148	0.00066	0.00092	0.00133	0.00137	0.09123				
Max PSD (mW/cm²)				0.09	228							
MPE Limit (mW/cm²)		1										
EUT Plane		Vertical										
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°				
Probe height (cm) \ Deg	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)				
10	0.00215	0.00056	0.00065	0.00062	0.00023	0.00025	0.00063	0.00153				
20	0.00159	0.00070	0.00073	0.00072	0.00039	0.00032	0.00072	0.00198				
30	0.00903	0.00202	0.00168	0.00062	0.00043	0.00069	0.00093	0.00710				
40	0.00663	0.00145	0.00124	0.00041	0.00038	0.00063	0.00107	0.00655				
50	0.01053	0.00145	0.00136	0.00058	0.00031	0.00039	0.00027	0.01043				
60	0.01357	0.00165	0.00124	0.00088	0.00037	0.00043	0.00048	0.01578				
70	0.01257	0.00143	0.00107	0.00092	0.00038	0.00032	0.00016	0.01726				
80	0.01178	0.00162	0.00067	0.00094	0.00041	0.00053	0.00041	0.01752				
90	0.04502	0.00132	0.00116	0.00097	0.00037	0.00057	0.00071	0.02240				
100	0.05813	0.00126	0.00133	0.00151	0.00044	0.00045	0.00051	0.04122				
110	0.04827	0.00117	0.00109	0.00196	0.00053	0.00039	0.00055	0.03725				
120	0.03763	0.00143	0.00133	0.00131	0.00040	0.00037	0.00085	0.03615				
130	0.03048	0.00136	0.00167	0.00091	0.00023	0.00034	0.00046	0.04025				
140	0.02148	0.00115	0.00160	0.00079	0.00018	0.00061	0.00082	0.02342				
150	0.00945	0.00136	0.00162	0.00058	0.00027	0.00053	0.00091	0.00937				
160	0.00426	0.00146	0.00133	0.00076	0.00031	0.00044	0.00105	0.00428				
170	0.00445	0.00167	0.00168	0.00054	0.00025	0.00039	0.00096	0.00432				
180	0.00088	0.00126	0.00121	0.00043	0.00032	0.00031	0.00057	0.00085				
Spatial Average (mW/cm²)	0.01822	0.00135	0.00126	0.00086	0.00034	0.00044	0.00067	0.01654				
Max Spatial Average (mW/cm²)				0.01	822							
MPE Limit (mW/cm²)				1								

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Test Mode	11ac VHT20	Test Frequency (MHz)	5785	MPE Distance (cm)	129	Power Setting	2	7				
EUT Plane				Horiz	ontal		1					
Probe height (cm) \ Deg	0~45° Max PSD (mW/cm²)	45~90° Max PSD (mW/cm²)	90~135° Max PSD (mW/cm²)	135~180° Max PSD (mW/cm²)	180~225° Max PSD (mW/cm²)	225~270° Max PSD (mW/cm²)	270~315° Max PSD (mW/cm²)	315~360° Max PSD (mW/cm²)				
209	0.13074	0.00162	0.00288	0.00028	0.00137	0.00187	0.00174	0.14924				
Max PSD (mW/cm²)	0.1007.	0.00.02	0.00200	0.14	l	0.00.0.	0.00	0111021				
MPE Limit (mW/cm²)		1										
EUT Plane		Vertical										
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°				
Probe height (cm) \ Deg	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)				
10	0.00276	0.00086	0.00112	0.00106	0.00061	0.00044	0.00132	0.00227				
20	0.00243	0.00082	0.00221	0.00222	0.00102	0.00048	0.00116	0.00245				
30	0.01143	0.00276	0.00242	0.00134	0.00106	0.00123	0.00179	0.01077				
40	0.01139	0.00243	0.00196	0.00088	0.00057	0.00113	0.00145	0.01095				
50	0.01612	0.00291	0.00276	0.00181	0.00058	0.00089	0.00082	0.01581				
60	0.02397	0.00263	0.00243	0.00178	0.00064	0.00072	0.00118	0.02538				
70	0.01976	0.00172	0.00141	0.00157	0.00085	0.00047	0.00091	0.02936				
80	0.01952	0.00229	0.00104	0.00184	0.00076	0.00051	0.00074	0.02351				
90	0.06153	0.00276	0.00257	0.00233	0.00071	0.00081	0.00148	0.03478				
100	0.09322	0.00299	0.00329	0.00228	0.00072	0.00042	0.00101	0.06548				
110	0.09428	0.00188	0.00173	0.00321	0.00118	0.00062	0.00105	0.05732				
120	0.05694	0.00168	0.00251	0.00279	0.00051	0.00082	0.00061	0.04819				
130	0.05084	0.00202	0.00307	0.00216	0.00044	0.00117	0.00101	0.06052				
140	0.03178	0.00211	0.00216	0.00124	0.00032	0.00127	0.00119	0.03508				
150	0.01506	0.00168	0.00196	0.00073	0.00048	0.00076	0.00128	0.01523				
160	0.00832	0.00251	0.00263	0.00093	0.00047	0.00058	0.00151	0.00836				
170	0.00662	0.00212	0.00268	0.00086	0.00045	0.00069	0.00135	0.00638				
180	0.00226	0.00191	0.00206	0.00088	0.00046	0.00067	0.00109	0.00215				
Spatial Average (mW/cm²)	0.02935	0.00212	0.00222	0.00166	0.00066	0.00076	0.00116	0.02522				
Max Spatial Average (mW/cm²)				0.02	935							
MPE Limit (mW/cm²)				1								

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		Test		MPE							
Test Mode	11ac VHT20	Frequency	5825	Distance	129	Power	2	7			
l lost mous	1140 111120	(MHz)	0020	(cm)	120	Setting	_	•			
EUT Plane		(Horiz	ontal						
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°			
Probe height (cm) \	0.40	40.00	30*100	100 100	100-220	220 210	270-010	010-000			
Deg	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD			
Deg	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)			
209	0.16213	0.00274	0.00334	0.00156	0.00186	0.00178	0.00153	0.19061			
Max PSD (mW/cm²)				0.19	061						
MPE Limit (mW/cm²)		1									
EUT Plane		Vertical									
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°			
Probe height (cm) \	Marri DOD	Marri DOD	Maria DOD	Marri DOD	Marri DOD	Marri DOD	Marri DOD	Marri DOD			
Deg	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD (mW/cm²)	Max PSD	Max PSD			
	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mvv/cm²)	(mW/cm²)	(mW/cm²)			
10	0.00211	0.00095	0.00128	0.00126	0.00058	0.00039	0.00082	0.00116			
20	0.00253	0.00851	0.00176	0.00191	0.00123	0.00044	0.00113	0.00242			
30	0.00843	0.00202	0.00315	0.00211	0.00097	0.00165	0.00154	0.00758			
40	0.01157	0.00232	0.00215	0.00094	0.00112	0.00132	0.00108	0.01065			
50	0.01527	0.00204	0.00204	0.00211	0.00076	0.00072	0.00074	0.01319			
60	0.02119	0.00176	0.00178	0.00143	0.00094	0.00061	0.00072	0.02149			
70	0.01628	0.00121	0.00169	0.00142	0.00113	0.00045	0.00065	0.02013			
80	0.01432	0.00176	0.00178	0.00213	0.00131	0.00047	0.00088	0.02205			
90	0.07123	0.00206	0.00168	0.00345	0.00093	0.00076	0.00131	0.03003			
100	0.13524	0.00308	0.00384	0.00625	0.00082	0.00108	0.00151	0.06952			
110	0.09238	0.00134	0.00256	0.00483	0.00172	0.00074	0.00066	0.04814			
120	0.06127	0.00351	0.00378	0.00452	0.00082	0.00136	0.00148	0.04708			
130	0.04463	0.00271	0.00331	0.00295	0.00069	0.00139	0.00138	0.05059			
140	0.02707	0.00158	0.00263	0.00276	0.00052	0.00082	0.00114	0.02909			
150	0.01288	0.00206	0.00223	0.00177	0.00069	0.00057	0.00089	0.01423			
160	0.01313	0.00139	0.00243	0.00098	0.00072	0.00044	0.00128	0.01325			
170	0.00362	0.00284	0.00292	0.00165	0.00065	0.00036	0.00133	0.00388			
180	0.00183	0.00136	0.00273	0.00126	0.00075	0.00041	0.00093	0.00191			
Spatial Average	0.03083	0.00236	0.00243	0.00243	0.00091	0.00078	0.00108	0.02258			
(mW/cm²)	2.23000	3.53200	0.00210	3.532.10	2.23001	2.230.0	3.53100	0.02200			
Max Spatial Average				0.03	083						
(mW/cm²)											
MPE Limit (mW/cm²)				1							

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		Toot		MPE							
Took Made	11 00 V/LIT00	Test	E77E		100	Power	19	\ -			
Test Mode	11ac VHT80	Frequency	5775	Distance	129	Setting	18	າ.ວ			
FUT Plans		(MHz)		(cm)	antal .						
EUT Plane		4 = 000		Horiz	1						
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°			
Probe height (cm) \	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD	Max PSD			
Deg	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)	(mW/cm²)			
	` '	, í		, ,	,	,	` '	,			
209	0.03218	0.00043	0.00069	0.00015	0.00039	0.00041	0.00047	0.03824			
Max PSD (mW/cm²)				0.03	824						
MPE Limit (mW/cm²)		1									
EUT Plane		Vertical									
	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°			
Probe height (cm) \	Max PSD	May DCD	May DCD	Mary DCD	May DCD	Mary DCD	May DCD	May DCD			
Deg	(mW/cm²)	Max PSD	Max PSD	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD	Max PSD (mW/cm²)	Max PSD (mW/cm²)			
	(IIIVV/CIII-)	(mW/cm²)	(mW/cm²)	(IIIVV/CIII-)	(mvv/cm²)	(mW/cm²)	(IIIVV/CIII-)	(mvv/cm²)			
10	0.00073	0.00027	0.00037	0.00028	0.00014	0.00013	0.00026	0.00063			
20	0.00078	0.00022	0.00025	0.00043	0.00011	0.00018	0.00015	0.00091			
30	0.00357	0.00034	0.00057	0.00059	0.00026	0.00025	0.00032	0.00335			
40	0.00301	0.00078	0.00065	0.00017	0.00023	0.00031	0.00039	0.00304			
50	0.00445	0.00054	0.00055	0.00046	0.00018	0.00022	0.00033	0.00453			
60	0.00672	0.00063	0.00048	0.00036	0.00017	0.00021	0.00028	0.00768			
70	0.00576	0.00052	0.00031	0.00041	0.00021	0.00017	0.00024	0.00714			
80	0.00553	0.00062	0.00035	0.00052	0.00022	0.00021	0.00025	0.00743			
90	0.01825	0.00072	0.00075	0.00061	0.00014	0.00021	0.00037	0.00952			
100	0.02767	0.00068	0.00073	0.00091	0.00024	0.00023	0.00014	0.01832			
110	0.02462	0.00043	0.00047	0.00092	0.00037	0.00013	0.00028	0.01513			
120	0.01507	0.00065	0.00055	0.00093	0.00017	0.00022	0.00022	0.01329			
130	0.01308	0.00053	0.00092	0.00062	0.00012	0.00023	0.00025	0.01647			
140	0.00951	0.00053	0.00072	0.00041	0.00011	0.00027	0.00035	0.01024			
150	0.00395	0.00026	0.00051	0.00043	0.00013	0.00011	0.00025	0.00382			
160	0.00231	0.00054	0.00072	0.00021	0.00013	0.00012	0.00045	0.00229			
170	0.00162	0.00024	0.00071	0.00013	0.00015	0.00011	0.00036	0.00151			
180	0.00042	0.00028	0.00032	0.00011	0.00012	0.00028	0.00031	0.00042			
Spatial Average	0.00817	0.00049	0.00055	0.00047	0.00018	0.00020	0.00029	0.00698			
(mW/cm²)	0.00017	0.00048	0.00000	0.00047	0.00010	0.00020	0.00028	0.00090			
Max Spatial Average				0.00	817						
(mW/cm²)				0.00							
MPE Limit (mW/cm²)				1							

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2.6 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Isotropic Probe	ETS-LINDGREN	HI-6105	00130664	100kHz-6GHz	Oct. 31, 2018	Oct. 30, 2019	03CH01-CB

Report No.: FA880825-04

Note: Calibration Interval of instrument listed above is one year.

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