

TEST REPORT

Reference No...... : WTX21X07066563W-1
FCC ID : 2ATGY-AWC1115
Applicant : UBIO LABS, INC.
Address : 2821 Northup Way, Suite 250, Bellevue, WA 98004 USA
Product Name : Aspect 15W Wireless Pad with 25W USB-C
Test Model : AWC1115
Standards : FCC Part 15.207&15.209
Date of Receipt sample : Jul. 06, 2021
Date of Test..... : Jul. 06, 2021 to Aug. 03, 2021
Date of Issue : Aug. 03, 2021
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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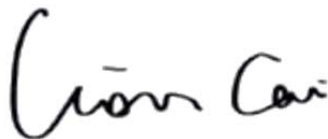
Tested by:

Reviewed By:

Approved & Authorized By:



Jason Su / Project Engineer



Lion Cai / RF Manager



Silin Chen / Manager

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Report version

Version No.	Date of issue	Description
Rev.00	Aug. 03, 2021	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: UBIO LABS, INC.
 Address of applicant: 2821 Northup Way, Suite 250, Bellevue, WA 98004 USA

Manufacturer: UBIO LABS, INC.
 Address of manufacturer: 2821 Northup Way, Suite 250, Bellevue, WA 98004 USA

General Description of EUT	
Product Name:	Aspect 15W Wireless Pad with 25W USB-C
Trade Name:	ubiolabs
Model No.:	AWC1115
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	120~130KHz
Power adapter	CHG1088 Input: AC110-240V, 50-60Hz, 1.1A Output: DC15V, 3.5A
Antenna Type:	Coil Antenna
Modulation Type:	FSK
Rated Voltage:	Input: DC15V
Rated Current:	Input:3.5A
Rated Power:	Output: 5W, 10W, 7.5W, 15W

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.207: Conducted limits.

FCC Rules Part 15.209: Radiated emission limits; general requirements.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

FCC Rules Part 15.203: Antenna requirement.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	Power Supply Mode
TM1	Wireless Charging	Input DC15V3.5A; Output 5W	AC120V for Adapter DC15V
TM2	Wireless Charging	Input DC15V3.5A; Output 10W	AC120V for Adapter DC15V
TM3	Wireless Charging	Input DC15V3.5A; Output 15W	AC120V for Adapter DC15V

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC Cable	1.17	Unshielded	Without Ferrite
USB -C Cable	1.0	Shielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Wireless charging load	/	YBZ	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz ± 3.74 dB
		0.15-30MHz ± 3.34 dB
Radiated Emissions	Radiated	30-200MHz ± 4.52 dB
		0.2-1GHz ± 5.56 dB
		1-6GHz ± 3.84 dB
		6-18GHz ± 3.92 dB

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2021-03-27	2022-03-26
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2021-03-27	2022-03-26
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2021-03-27	2022-03-26
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2021-03-27	2022-03-26
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2021-03-27	2022-03-26
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2021-03-27	2022-03-26
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2021-03-27	2022-03-26
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2021-03-27	2022-03-26
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2021-03-27	2022-03-26
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2021-03-27	2022-03-26
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2021-04-12	2022-04-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2021-04-12	2022-04-11
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-19	2023-03-18
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-19	2023-03-18
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2021-04-27	2023-04-26
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2021-04-27	2022-04-26
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2021-03-27	2022-03-26
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2021-03-27	2022-03-26
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2021-03-19	2023-03-18
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

Description of Test	Result
§15.203 Antenna Requirement	Compliant
§15.207 (a) Conducted Emission	Compliant
§15.209 Radiated Emission	Compliant

N/A: not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has a coil antenna, fulfill the requirement of this section.

4. Conducted Emissions

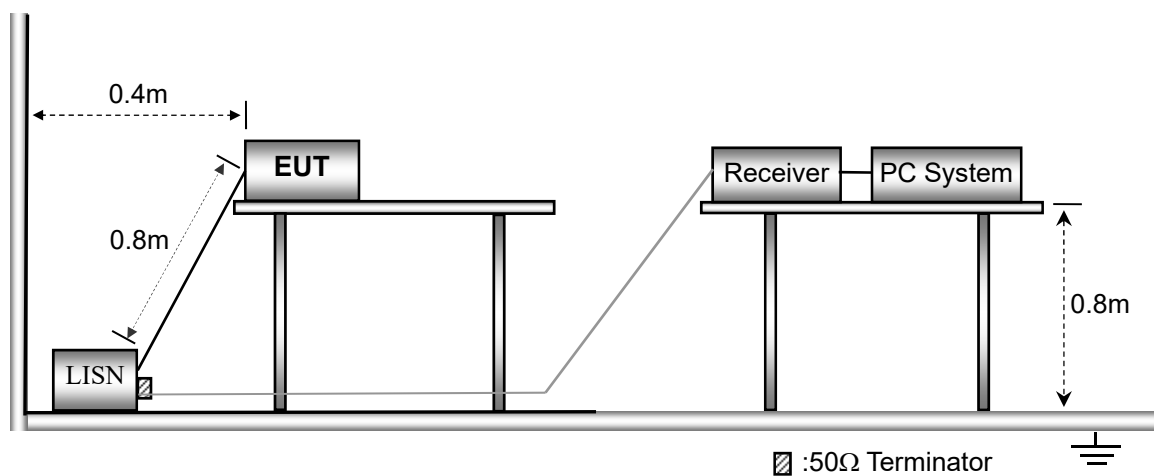
4.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

4.2 Basic Test Setup Block Diagram

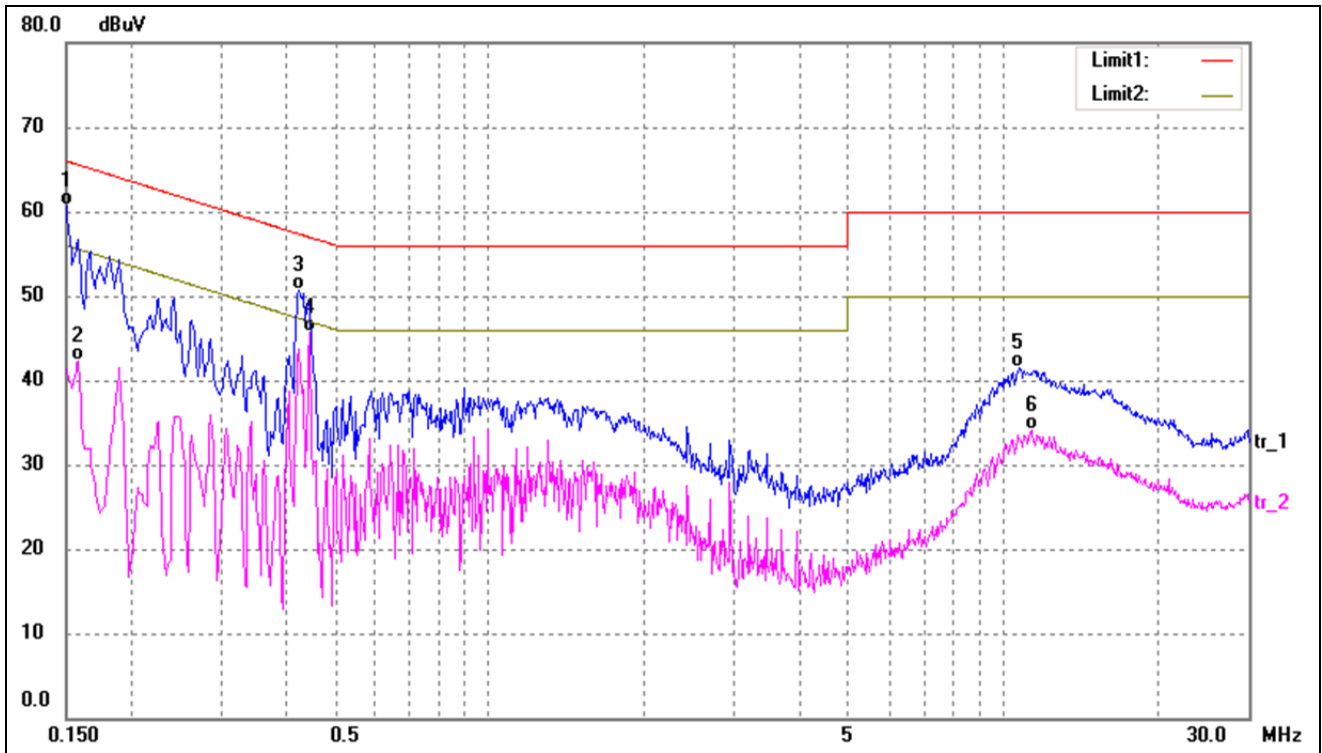


4.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

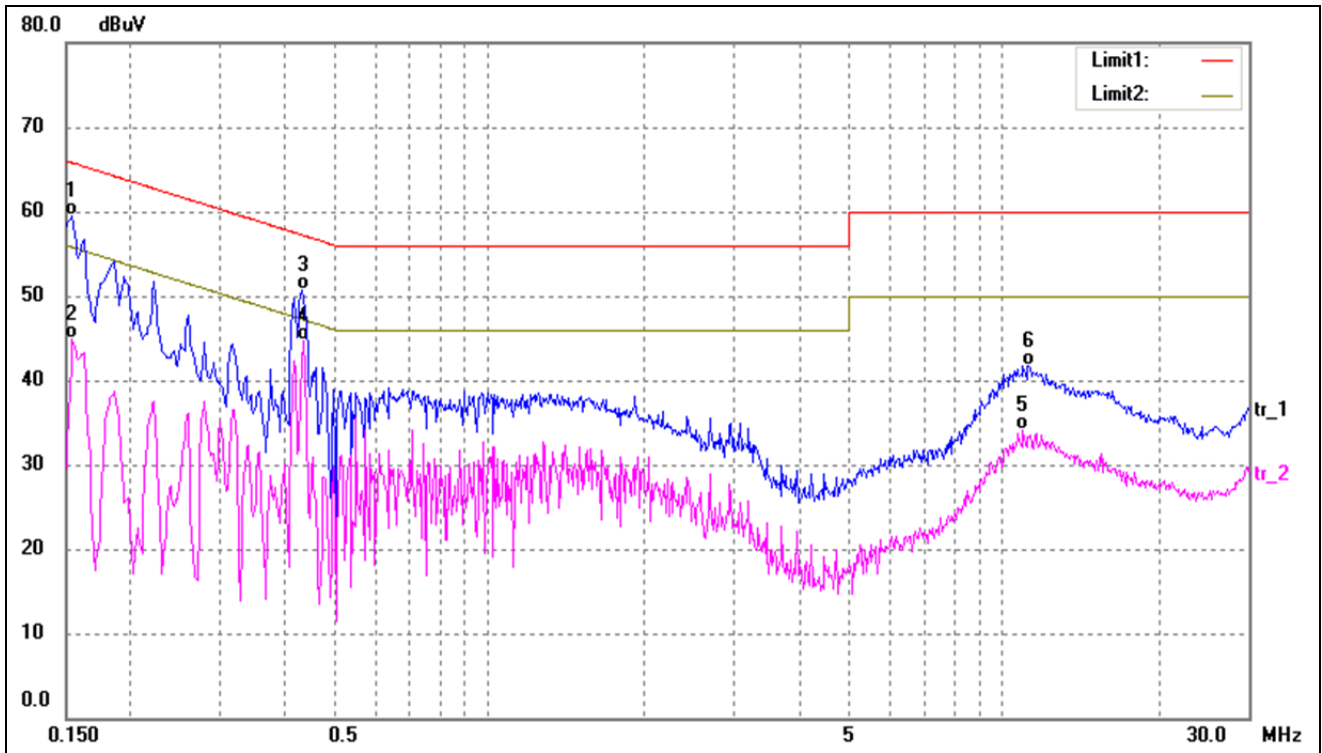
4.4 Summary of Test Results/Plots

Test mode:	TM1	Polarity:	Line
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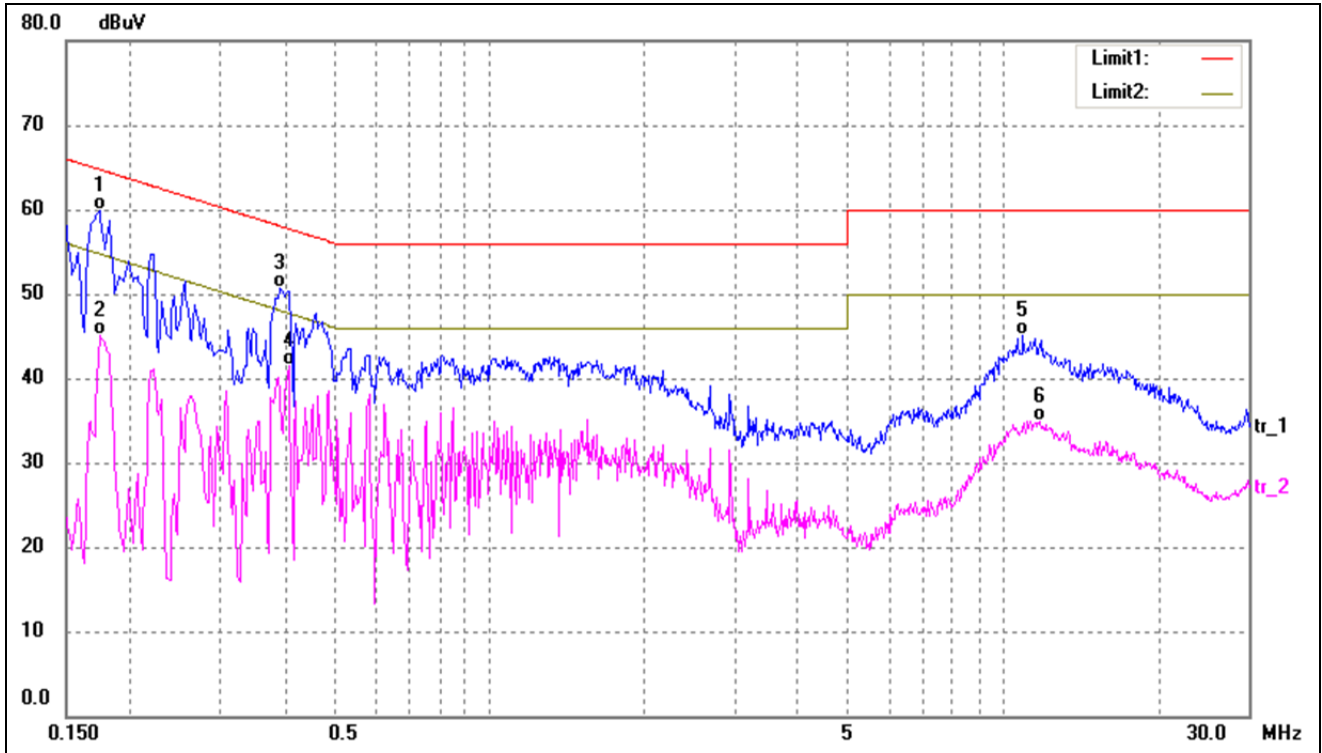
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	50.36	10.25	60.61	66.00	-5.39	QP
2	0.1580	32.14	10.25	42.39	55.57	-13.18	AVG
3	0.4260	40.53	10.22	50.75	57.33	-6.58	QP
4*	0.4460	35.45	10.22	45.67	46.95	-1.28	AVG
5	10.7500	31.16	10.33	41.49	60.00	-18.51	QP
6	11.3500	23.66	10.36	34.02	50.00	-15.98	AVG

Test mode:	TM1	Polarity:	Neutral
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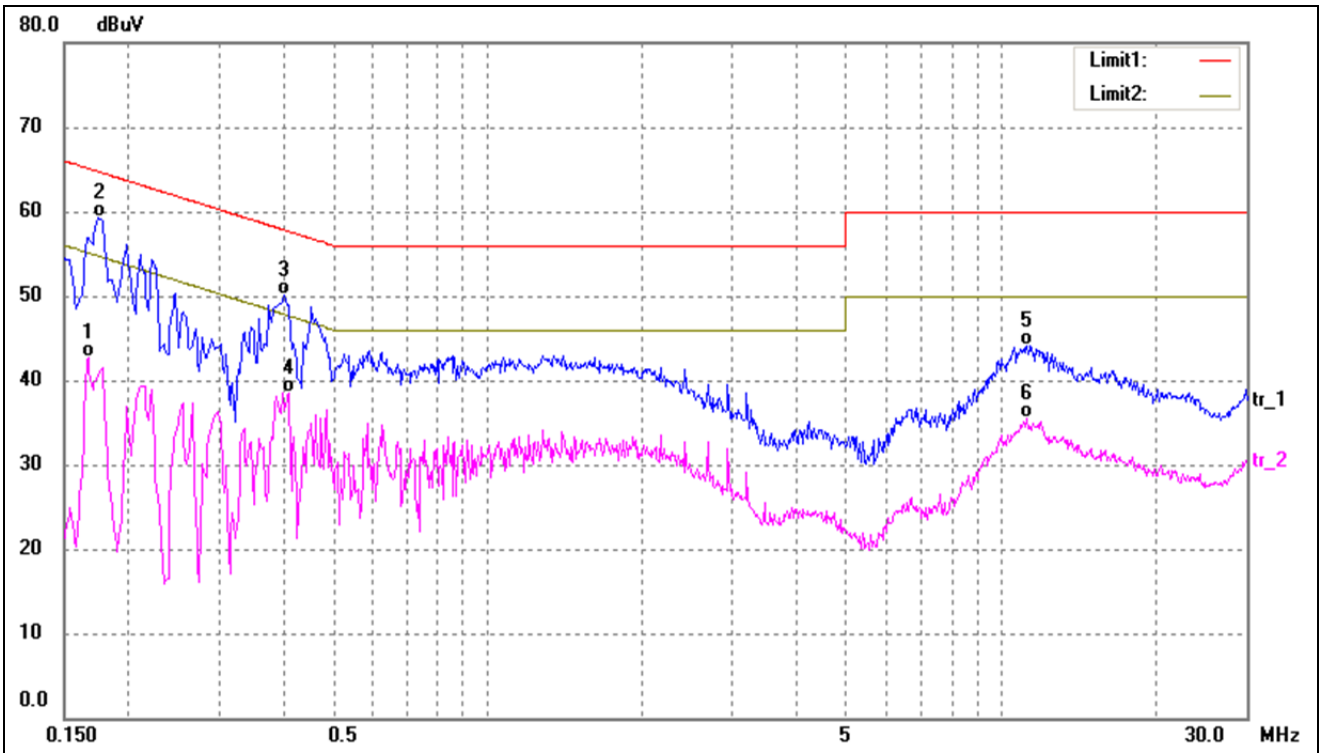
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	49.22	10.25	59.47	65.78	-6.31	QP
2	0.1540	34.73	10.25	44.98	55.78	-10.80	AVG
3	0.4300	40.42	10.22	50.64	57.25	-6.61	QP
4*	0.4340	34.49	10.22	44.71	47.18	-2.47	AVG
5	10.9580	23.76	10.34	34.10	50.00	-15.90	AVG
6	11.2220	31.41	10.35	41.76	60.00	-18.24	QP

Test mode:	TM2	Polarity:	Line
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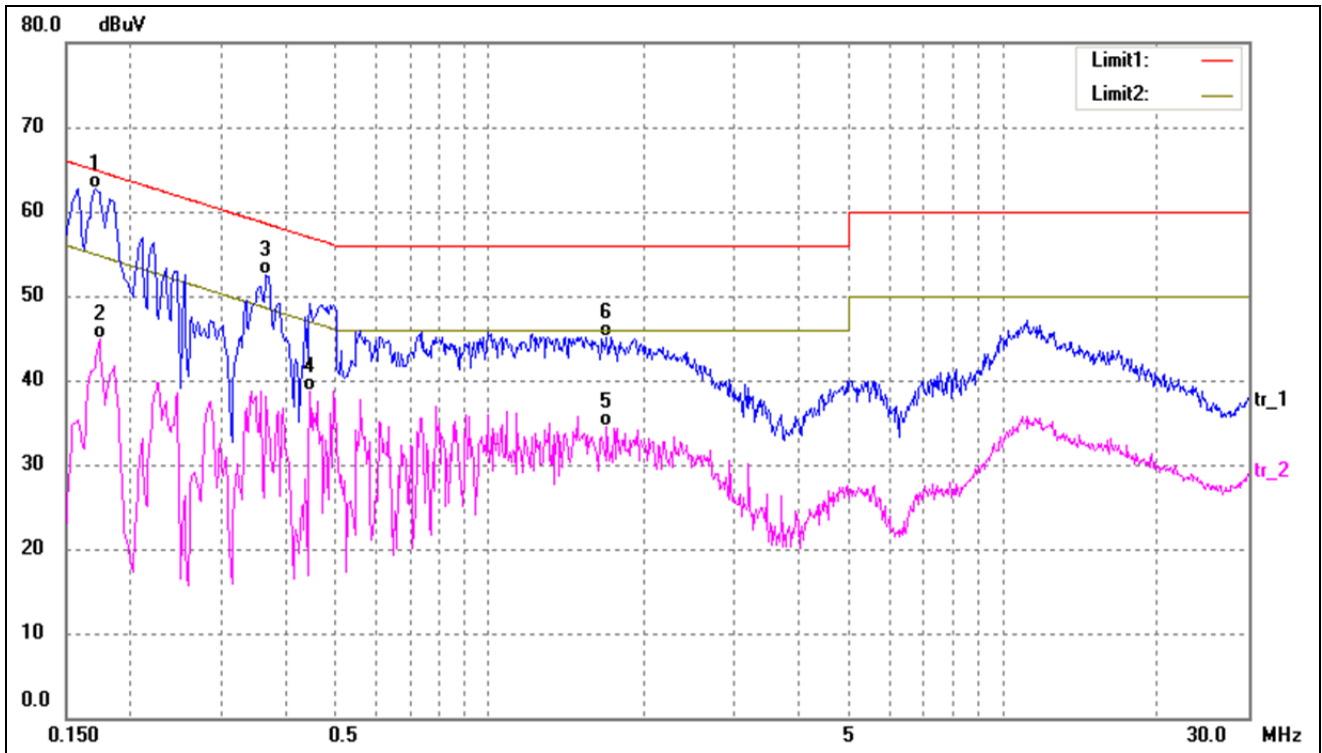
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1740	49.71	10.25	59.96	64.77	-4.81	QP
2	0.1740	34.91	10.25	45.16	54.77	-9.61	AVG
3	0.3900	40.52	10.24	50.76	58.06	-7.30	QP
4	0.4060	31.25	10.23	41.48	47.73	-6.25	AVG
5	10.9620	34.70	10.34	45.04	60.00	-14.96	QP
6	11.7980	24.57	10.39	34.96	50.00	-15.04	AVG

Test mode:	TM2	Polarity:	Neutral
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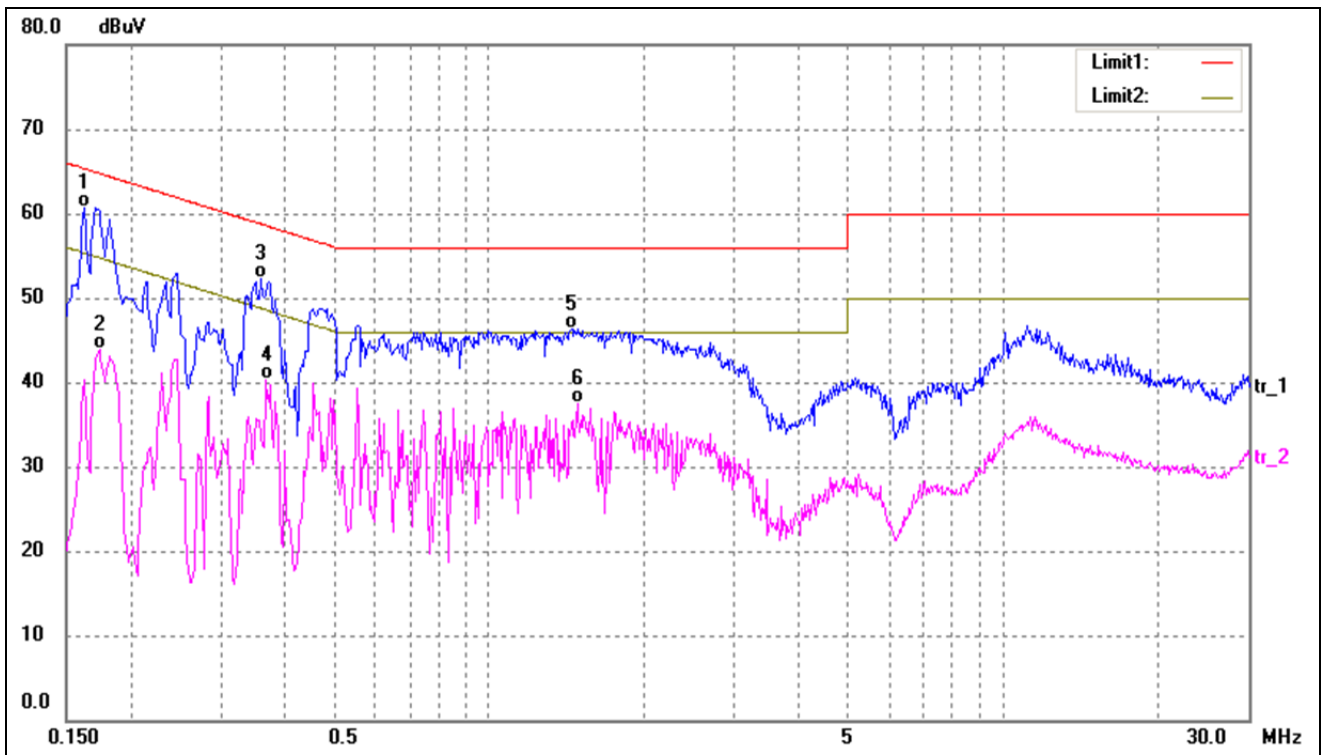
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	32.37	10.26	42.63	55.16	-12.53	AVG
2*	0.1740	49.12	10.25	59.37	64.77	-5.40	QP
3	0.4020	39.91	10.23	50.14	57.81	-7.67	QP
4	0.4100	28.20	10.23	38.43	47.65	-9.22	AVG
5	11.2340	33.85	10.35	44.20	60.00	-15.80	QP
6	11.2340	25.09	10.35	35.44	50.00	-14.56	AVG

Test mode:	TM3	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1700	52.52	10.25	62.77	64.96	-2.19	QP
2	0.1740	34.71	10.25	44.96	54.77	-9.81	AVG
3	0.3660	42.18	10.25	52.43	58.59	-6.16	QP
4	0.4460	28.44	10.22	38.66	46.95	-8.29	AVG
5	1.6940	24.31	10.26	34.57	46.00	-11.43	AVG
6	1.7180	34.90	10.26	45.16	56.00	-10.84	QP

Test mode:	TM3	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1620	50.46	10.26	60.72	65.36	-4.64	QP
2	0.1740	33.58	10.25	43.83	54.77	-10.94	AVG
3	0.3580	42.05	10.25	52.30	58.77	-6.47	QP
4	0.3660	30.02	10.25	40.27	48.59	-8.32	AVG
5	1.4420	36.11	10.23	46.34	56.00	-9.66	QP
6	1.4860	27.27	10.23	37.50	46.00	-8.50	AVG

5. RADIATED EMISSION

5.1 Standard Applicable

According to 15.209(a), radiated emission limits; general requirements.

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

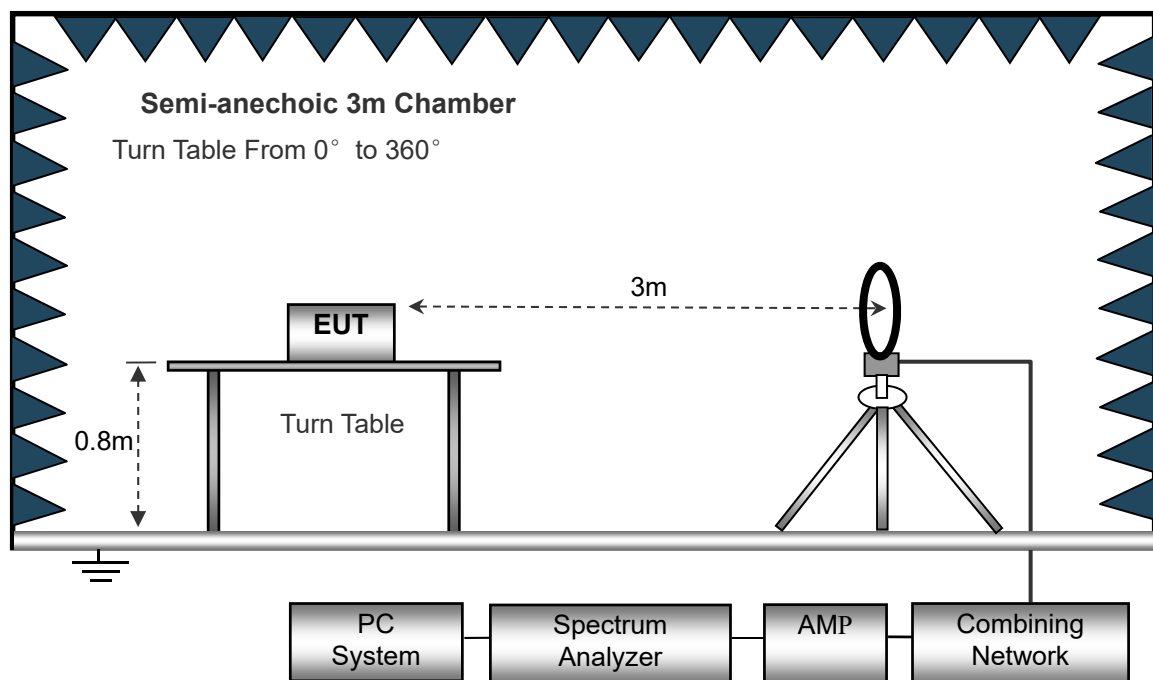
5.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.209 Limit.

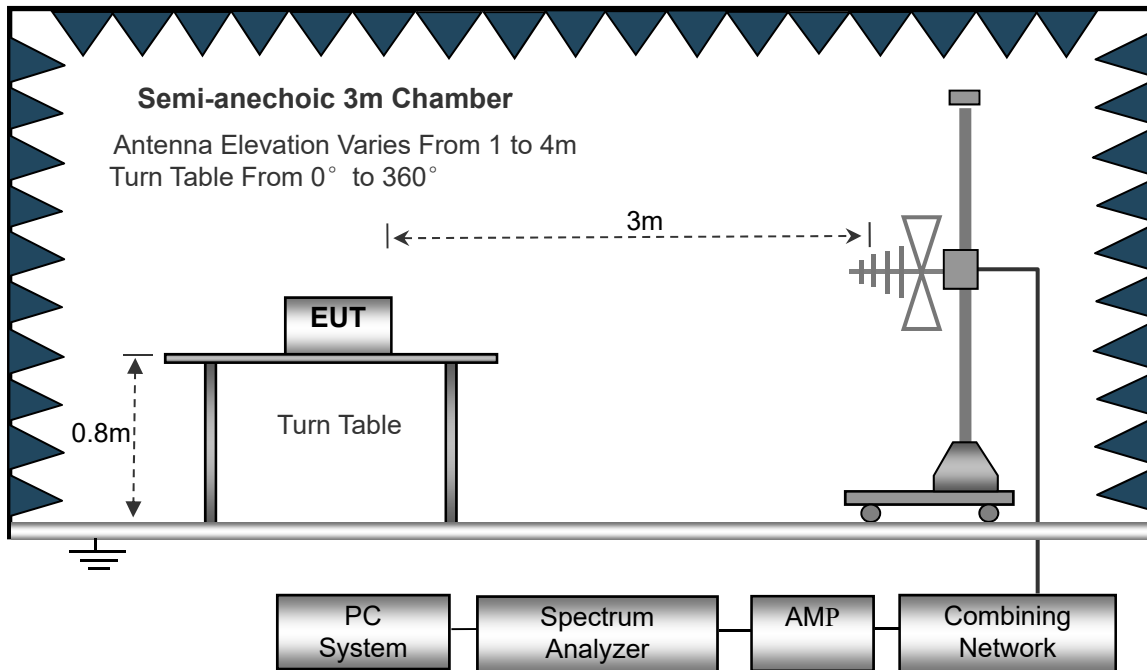
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

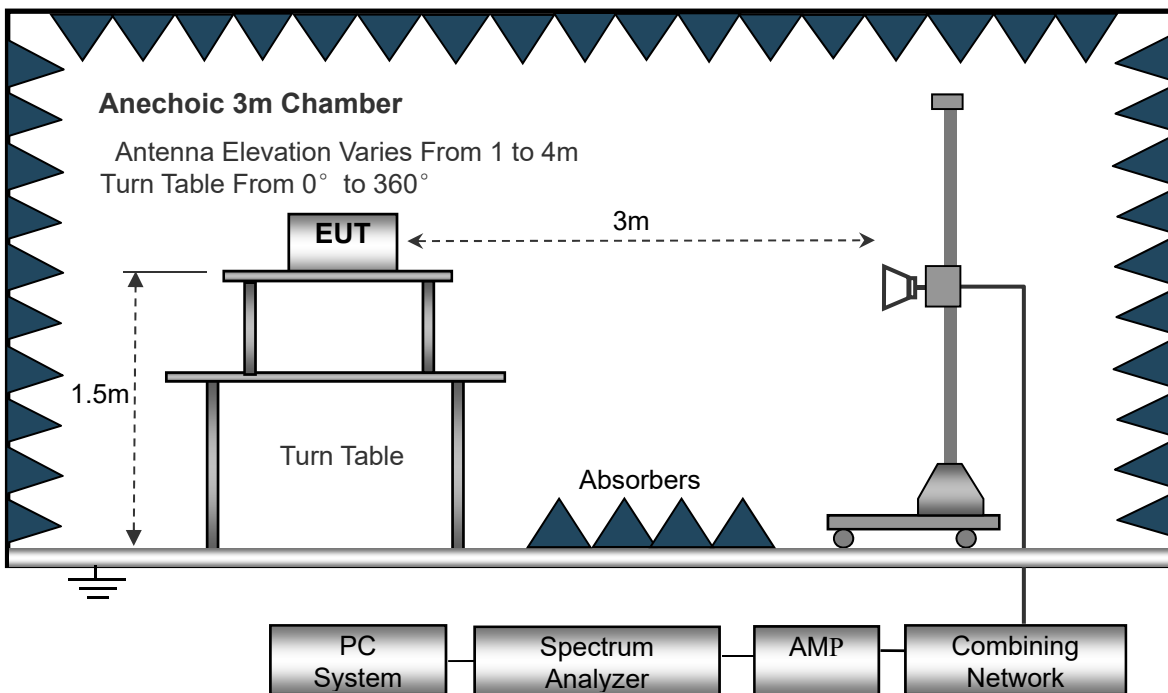
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



5.3 Test Receiver Setup

Frequency :9kHz-30MHz

RBW=10kHz,

VBW =30kHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120kHz,

VBW=300kHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

5.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} - \text{Corr. Factor}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for a Class B device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15.209(a) Limit}$$

5.5 Environmental Conditions

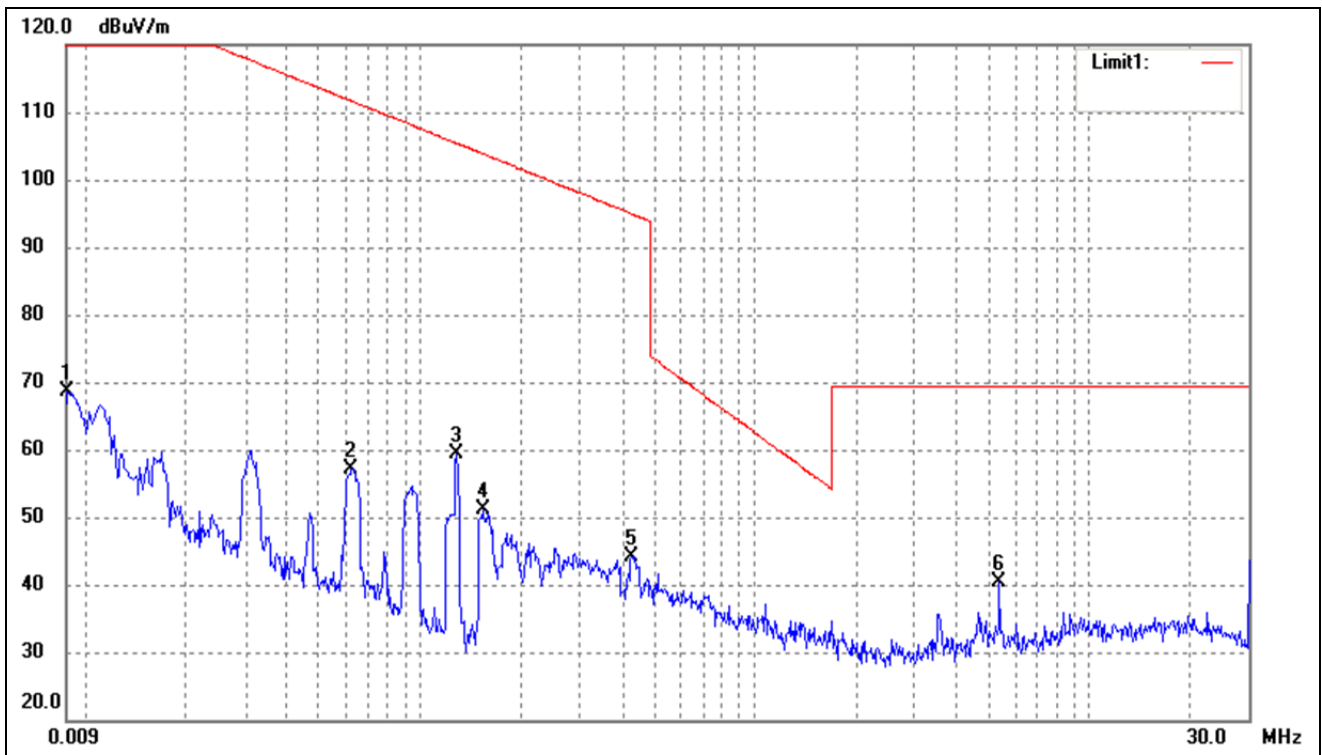
Temperature:	25 °C
Relative Humidity:	55 %
ATM Pressure:	1011 mbar

5.6 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

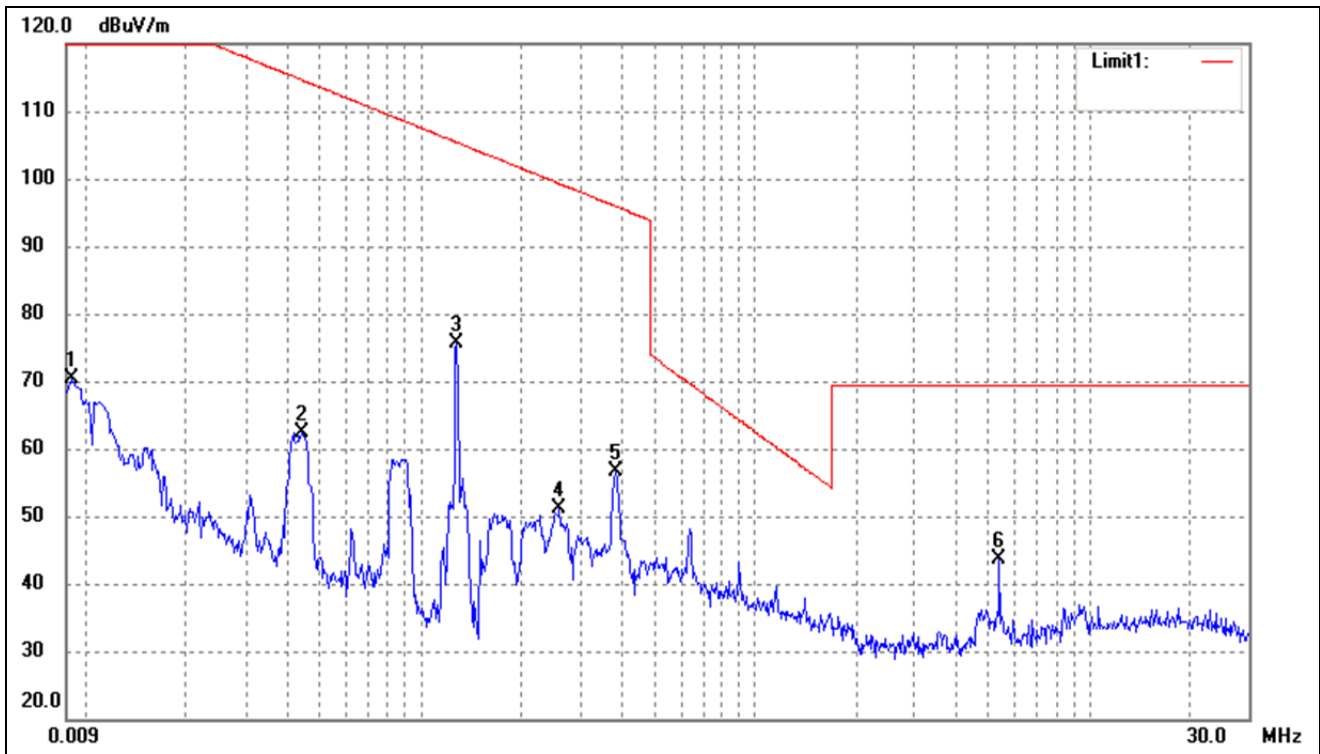
➤ Below 30MHz

Test mode:	TM1	Polarity:	Horizontal
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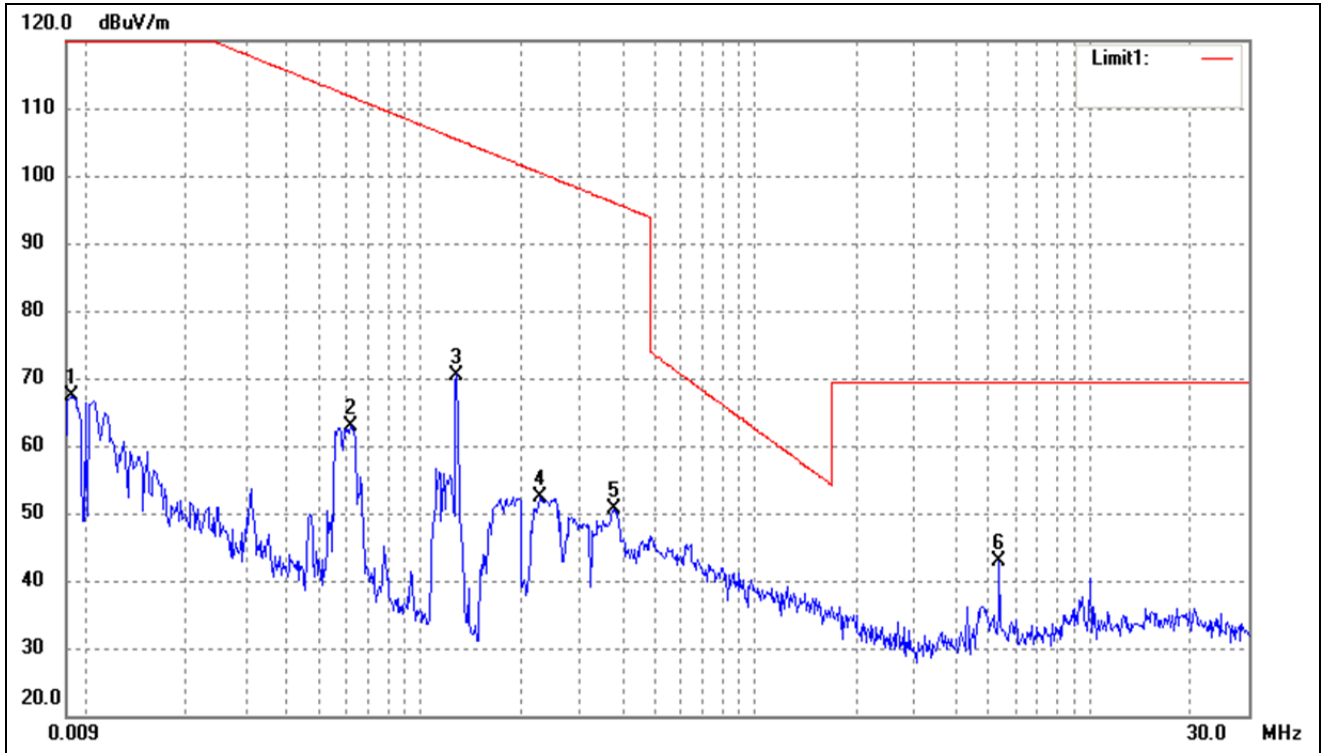
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0090	74.83	-6.29	68.54	128.50	-59.96	-	-	peak
2	0.0625	62.14	-5.01	57.13	111.68	-54.55	-	-	peak
3	0.1285	64.63	-5.13	59.50	105.42	-45.92	-	-	peak
4	0.1539	56.51	-5.29	51.22	103.85	-52.63	-	-	peak
5	0.4282	52.01	-7.77	44.24	94.97	-50.73	-	-	peak
6	5.3900	44.74	-4.29	40.45	69.50	-29.05	-	-	peak

Test mode:	TM2	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0092	76.61	-6.29	70.32	128.31	-57.99	-	-	peak
2	0.0442	67.58	-5.13	62.45	114.68	-52.23	-	-	peak
3	0.1281	80.73	-5.14	75.59	105.45	-29.86	-	-	peak
4	0.2603	58.55	-7.50	51.05	99.29	-48.24	-	-	peak
5	0.3852	64.43	-7.83	56.60	95.89	-39.29	-	-	peak
6	5.3900	47.94	-4.29	43.65	69.50	-25.85	-	-	peak

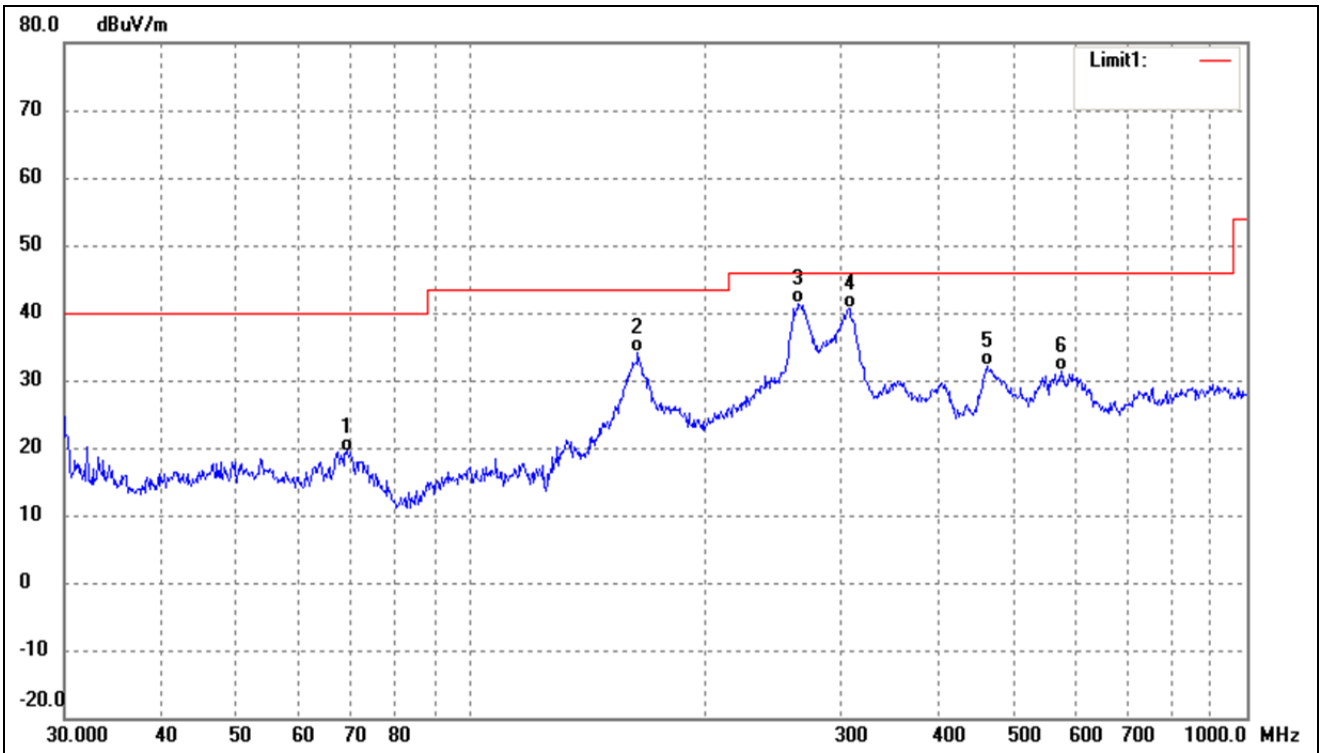
Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0092	73.60	-6.29	67.31	128.31	-61.00	-	-	peak
2	0.0620	67.95	-5.01	62.94	111.75	-48.81	-	-	peak
3	0.1285	75.63	-5.13	70.50	105.42	-34.92	-	-	peak
4	0.2280	59.37	-6.90	52.47	100.44	-47.97	-	-	peak
5	0.3791	58.54	-7.84	50.70	96.03	-45.33	-	-	peak
6	5.3900	47.28	-4.29	42.99	69.50	-26.51	-	-	peak

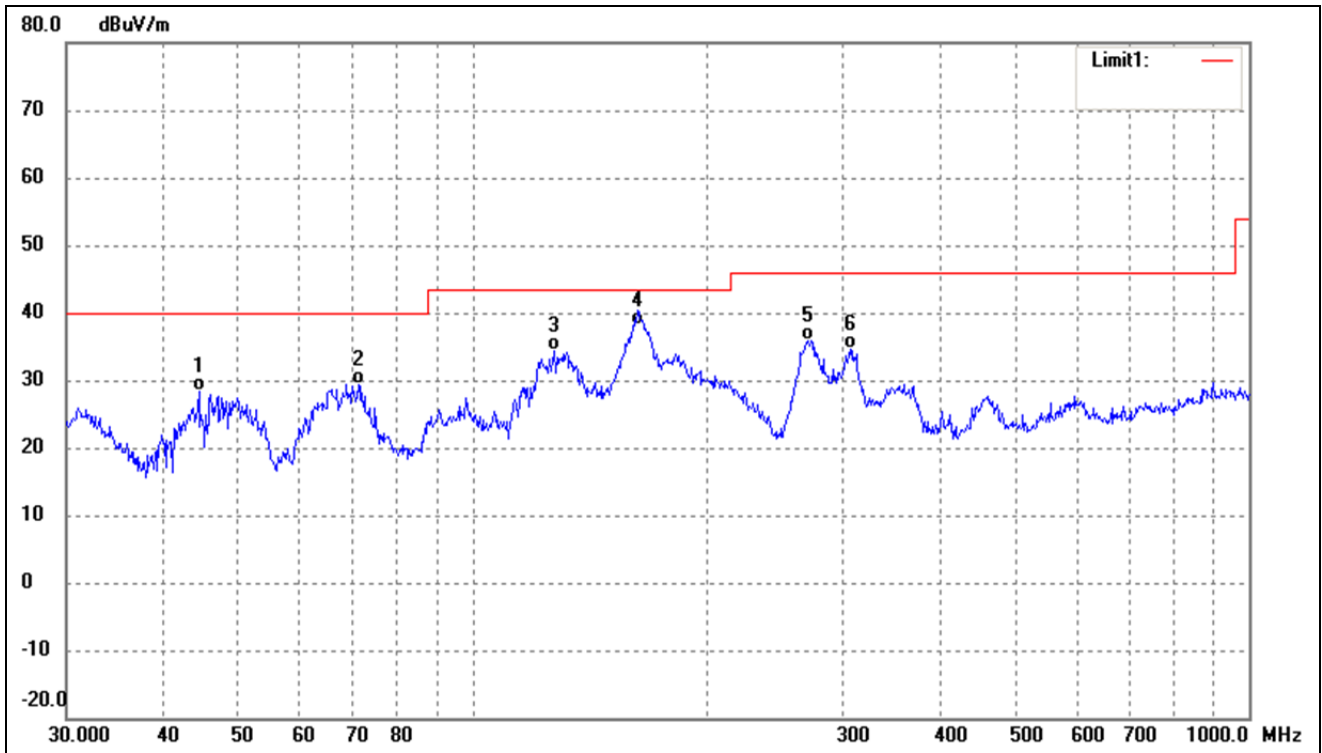
➤ 30MHz-1GHz

➤ Test mode:	TM1	Polarity:	Horizontal
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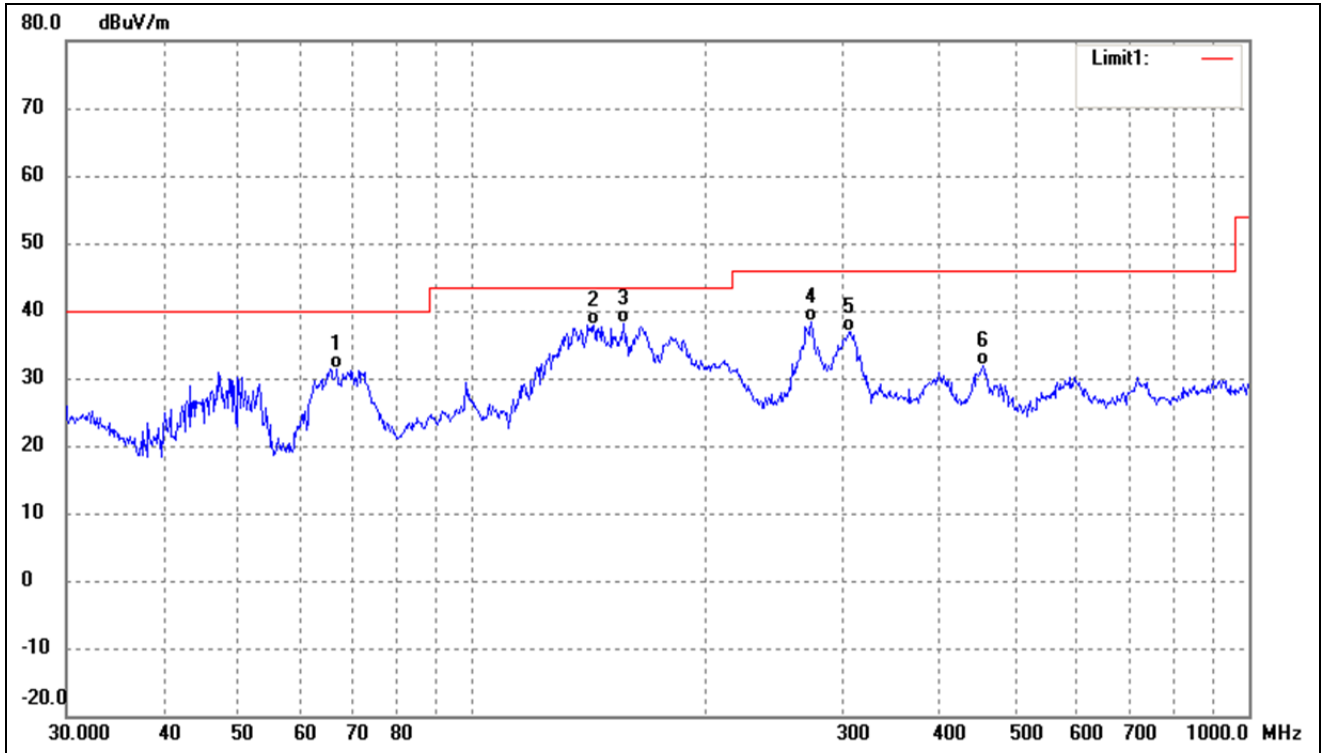
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	69.3568	31.50	-12.00	19.50	40.00	-20.50	-	-	QP
2	164.3301	45.99	-11.83	34.16	43.50	-9.34	-	-	QP
3	264.7457	48.52	-7.04	41.48	46.00	-4.52	-	-	QP
4	307.8313	46.41	-5.74	40.67	46.00	-5.33	-	-	QP
5	462.3455	35.81	-3.77	32.04	46.00	-13.96	-	-	QP
6	576.6443	32.91	-1.46	31.45	46.00	-14.55	-	-	QP

Test mode:	TM1	Polarity:	Vertical
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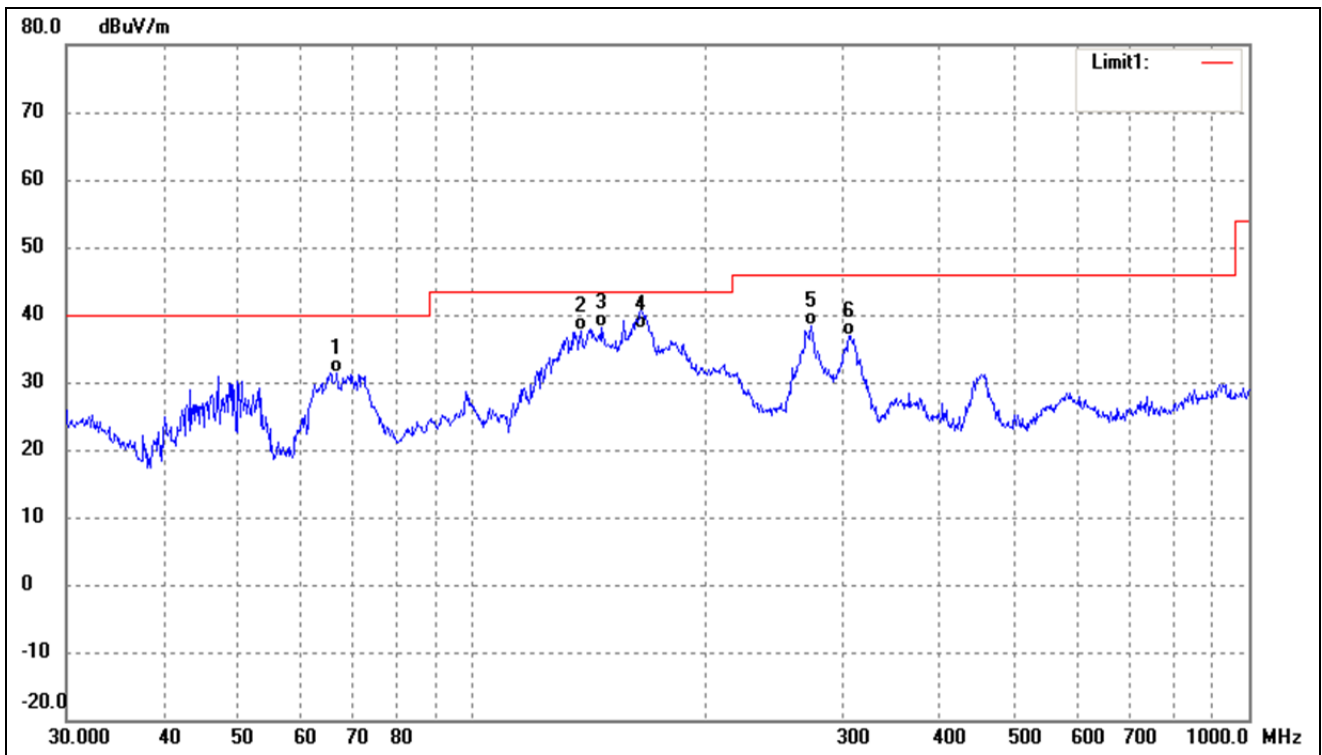
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.4308	37.53	-9.11	28.42	40.00	-11.58	-	-	QP
2	71.3300	41.78	-12.42	29.36	40.00	-10.64	-	-	QP
3	127.6645	47.36	-12.91	34.45	43.50	-9.05	-	-	QP
4	163.1818	50.10	-11.88	38.22	43.50	-5.28	-	-	QP
5	270.3748	42.95	-7.08	35.87	46.00	-10.13	-	-	QP
6	306.7537	40.42	-5.74	34.68	46.00	-11.32	-	-	QP

➤ Test mode:	TM2	Polarity:	Horizontal
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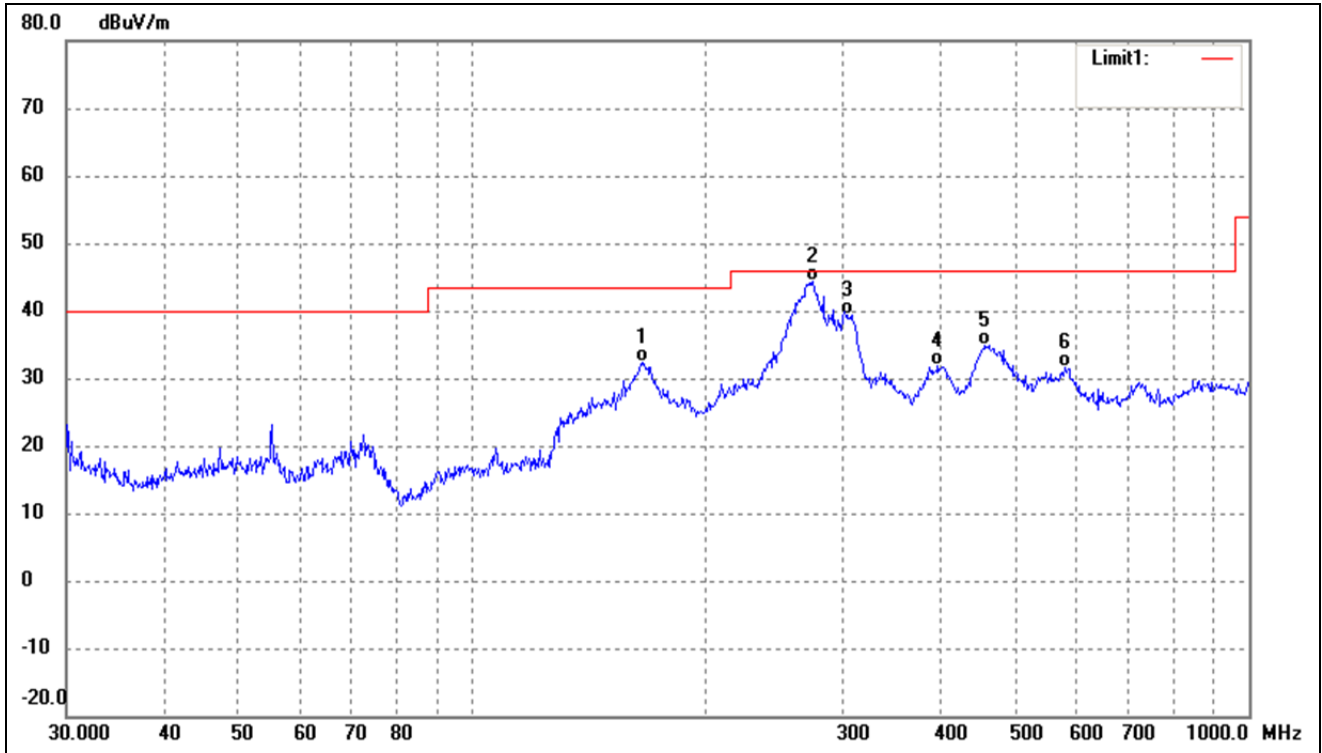
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	66.9669	42.92	-11.53	31.39	40.00	-8.61	-	-	QP
2	143.3260	50.43	-12.53	37.90	43.50	-5.60	-	-	QP
3	156.4577	50.17	-12.03	38.14	43.50	-5.36	-	-	QP
4	273.2341	45.47	-7.10	38.37	46.00	-7.63	-	-	QP
5	305.6800	42.61	-5.72	36.89	46.00	-9.11	-	-	QP
6	454.3100	35.70	-3.91	31.79	46.00	-14.21	-	-	QP

Test mode:	TM2	Polarity:	Vertical
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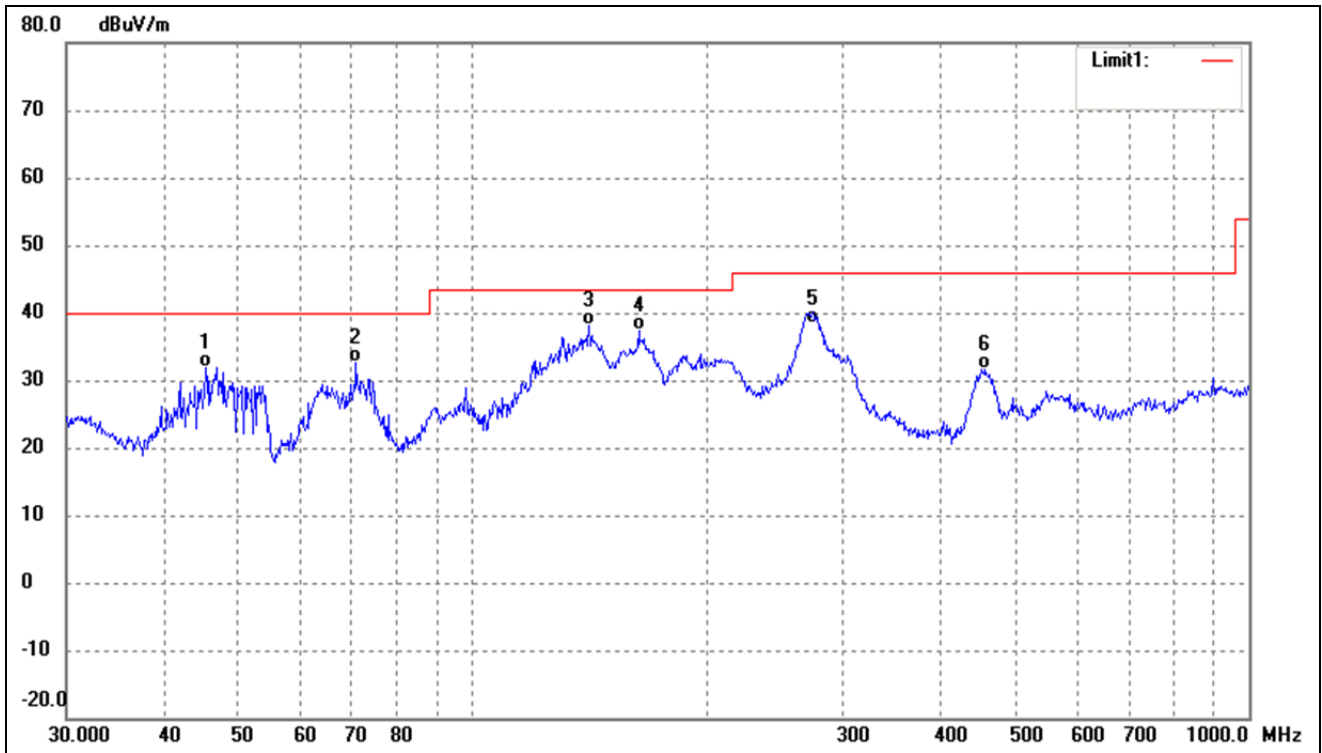
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	66.9669	42.92	-11.53	31.39	40.00	-8.61	-	-	QP
2	137.9028	50.61	-12.96	37.65	43.50	-5.85	-	-	QP
3	146.3735	50.32	-12.26	38.06	43.50	-5.44	-	-	QP
4	164.9075	49.70	-11.79	37.91	43.50	-5.59	-	-	QP
5	273.2341	45.47	-7.10	38.37	46.00	-7.63	-	-	QP
6	305.6800	42.61	-5.72	36.89	46.00	-9.11	-	-	QP

➤ Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	165.4866	44.13	-11.77	32.36	43.50	-11.14	-	-	QP
2	274.1939	51.57	-7.11	44.46	46.00	-1.54	-	-	QP
3	304.6099	45.17	-5.71	39.46	46.00	-6.54	-	-	QP
4	397.6334	36.27	-4.42	31.85	46.00	-14.15	-	-	QP
5	457.5073	38.72	-3.86	34.86	46.00	-11.14	-	-	QP
6	578.6699	33.02	-1.40	31.62	46.00	-14.38	-	-	QP

Test mode:	TM3	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.3755	41.05	-9.05	32.00	40.00	-8.00	-	-	QP
2	70.8315	44.92	-12.30	32.62	40.00	-7.38	-	-	QP
3	141.3298	50.78	-12.69	38.09	43.50	-5.41	-	-	QP
4	163.7549	49.13	-11.86	37.27	43.50	-6.23	-	-	QP
5	274.1939	45.50	-7.11	38.39	46.00	-7.61	-	-	QP
6	457.5073	35.43	-3.86	31.57	46.00	-14.43	-	-	QP

Remark: '- 'Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******