

TEST REPORT

Reference No..... : WTH22X06118842W001
FCC ID : 2AOAF-370
Applicant : Tylt ,INC
Address : 685 Cochran St. Suite 200 Simi Valley CA93065 United States
Manufacturer : HANK ELECTRONICS VIETNAM LTD
Address : No. 7,11 Street VSIP Tu Son . 16353 Bac Ninh Province . Vietnam
Product Name : Ripple Wilreless Charging Pad
Model No..... : QIRPL15GY-T
Standards : FCC Part 18
Date of Receipt sample : 2022-06-01
Date of Test..... : 2022-06-01 to 2022-06-13
Date of Issue : 2022-06-13
Test Report Form No. : WTX_Part 18W
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 approver.

Prepared By:

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Tested by:



Mike Shi

Approved by:



Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2022-06-13	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Ripple Wilreless Charging Pad
Trade Name:	/
Model No.:	QIRPL15GY-T
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:	110~205KHz
Modulation Type:	ASK
Antenna Type:	Coil Antenna
Input:	DC5V 2A, DC9V 2A,DC12V1.67A
Wireless output:	5W,10W,15W
Power adapter:	/

1.2 Test Standards

The tests were performed according to following standards:

FCC Part 18 Subpart C: Industrial, Scientific, and medical medical equipment.

ANSI C63.4-2014: American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

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 C63.4-2014 and FCC MP-5:1986, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

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

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C. (518101)

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 level. 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	5W output	Input: DC5V 2A, DC9V 2A,DC12V1.67A
TM2	Wireless Charging	10W output	Input: DC5V 2A, DC9V 2A,DC12V1.67A
TM3	Wireless Charging	15W output	Input: DC5V 2A, DC9V 2A,DC12V1.67A

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
Type-C Cable	1.0	Unshielded	Without Ferrite

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
AC Adapter	/	HKAP3231B-20US	/
Wireless Charging Load	YBZ	YBZ wireless charging tester	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

1.6 Measurement Uncertainty

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

1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2022-03-22	2023-03-21
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
Amplifier	Agilent	8447F	3113A06717	2022-01-07	2023-01-06
Amplifier	C&D	PAP-1G18	2002	2022-03-22	2023-03-21
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24

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

FCC RULES	DESCRIPTION OF TEST	RESULT
§ 18.307 (b)	Conducted Emission	Compliant
§ 18.305 (b)	Radiated Emission	Compliant

3. Conducted Emissions

3.1 Standard Applicable

According to FCC 18.307(b), the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies shall not exceed the limits in the following tables:

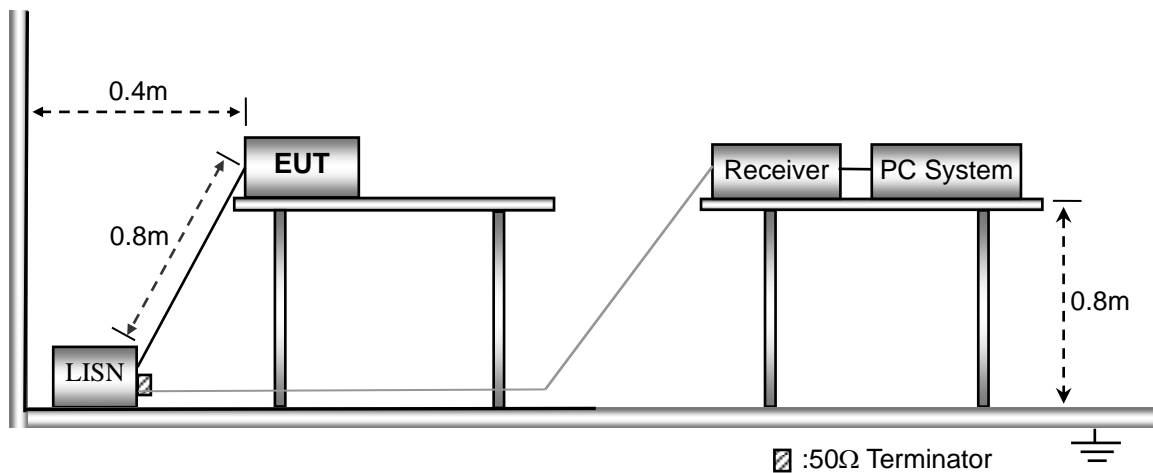
Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

3.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 18.307 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

3.3 Basic Test Setup Block Diagram



3.4 Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	54%
ATM Pressure:	1016 mbar

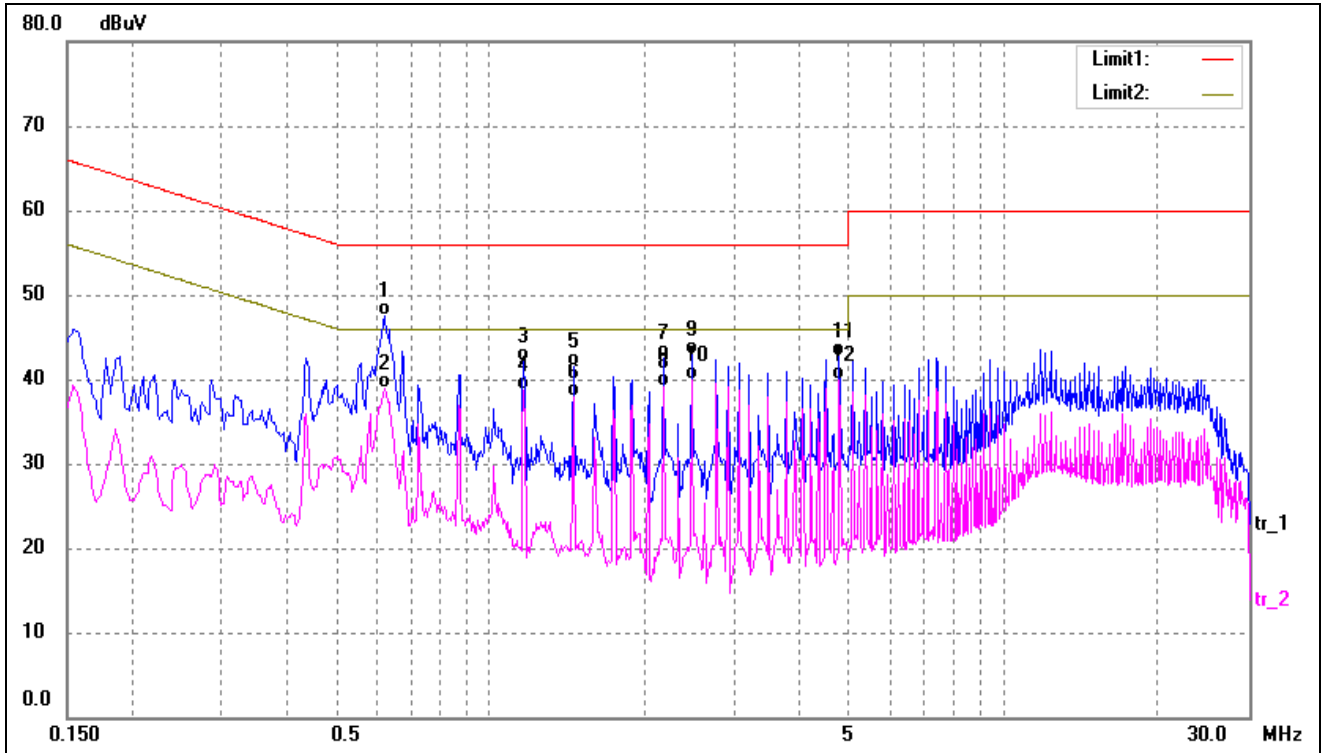
3.5 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency 150 kHz
Stop Frequency..... 30 MHz
Sweep Speed Auto
IF Bandwidth..... 10 kHz
Quasi-Peak Adapter Bandwidth 9 kHz
Quasi-Peak Adapter Mode Normal

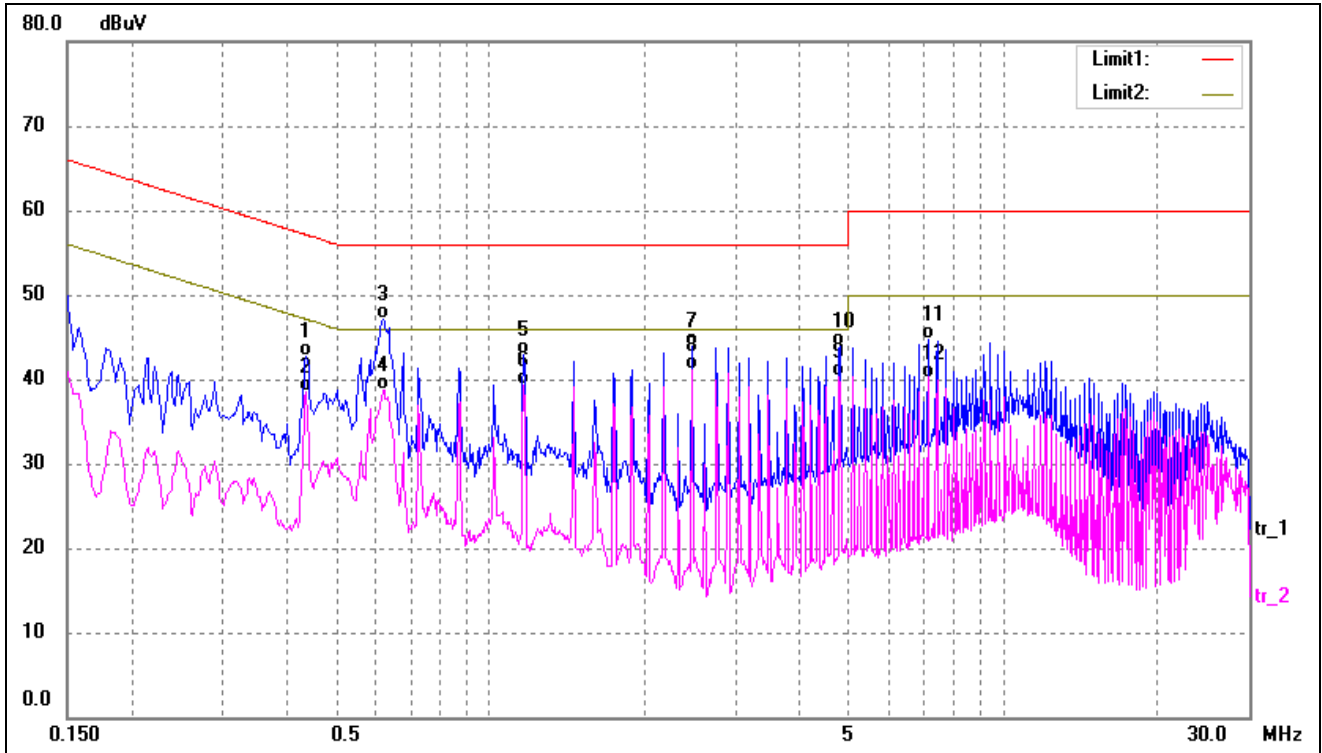
3.6 Summary of Test Results/Plots

Test mode:	TM1	Polarity:	Line
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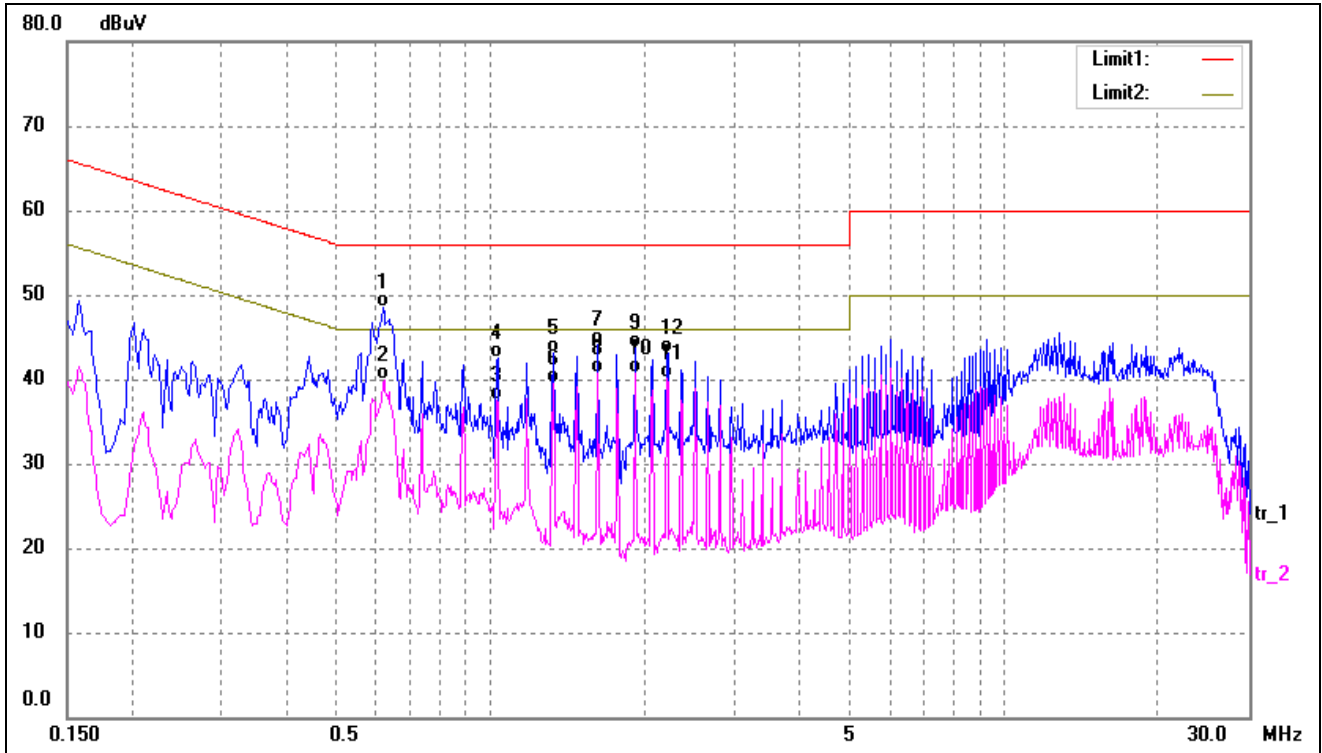
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.6219	37.24	10.33	47.57	56.00	-8.43	QP
2	0.6260	28.54	10.34	38.88	46.00	-7.12	AVG
3	1.1619	31.67	10.49	42.16	56.00	-13.84	QP
4	1.1619	28.16	10.49	38.65	46.00	-7.35	AVG
5	1.4539	31.14	10.37	41.51	56.00	-14.49	QP
6	1.4539	27.44	10.37	37.81	46.00	-8.19	AVG
7	2.1779	32.46	10.12	42.58	56.00	-13.42	QP
8	2.1779	28.95	10.12	39.07	46.00	-6.93	AVG
9	2.4700	32.79	10.11	42.90	56.00	-13.10	QP
10	2.4700	29.73	10.11	39.84	46.00	-6.16	AVG
11	4.7938	32.74	10.01	42.75	56.00	-13.25	QP
12*	4.7938	29.97	10.01	39.98	46.00	-6.02	AVG

Test mode:	TM1	Polarity:	Neutral
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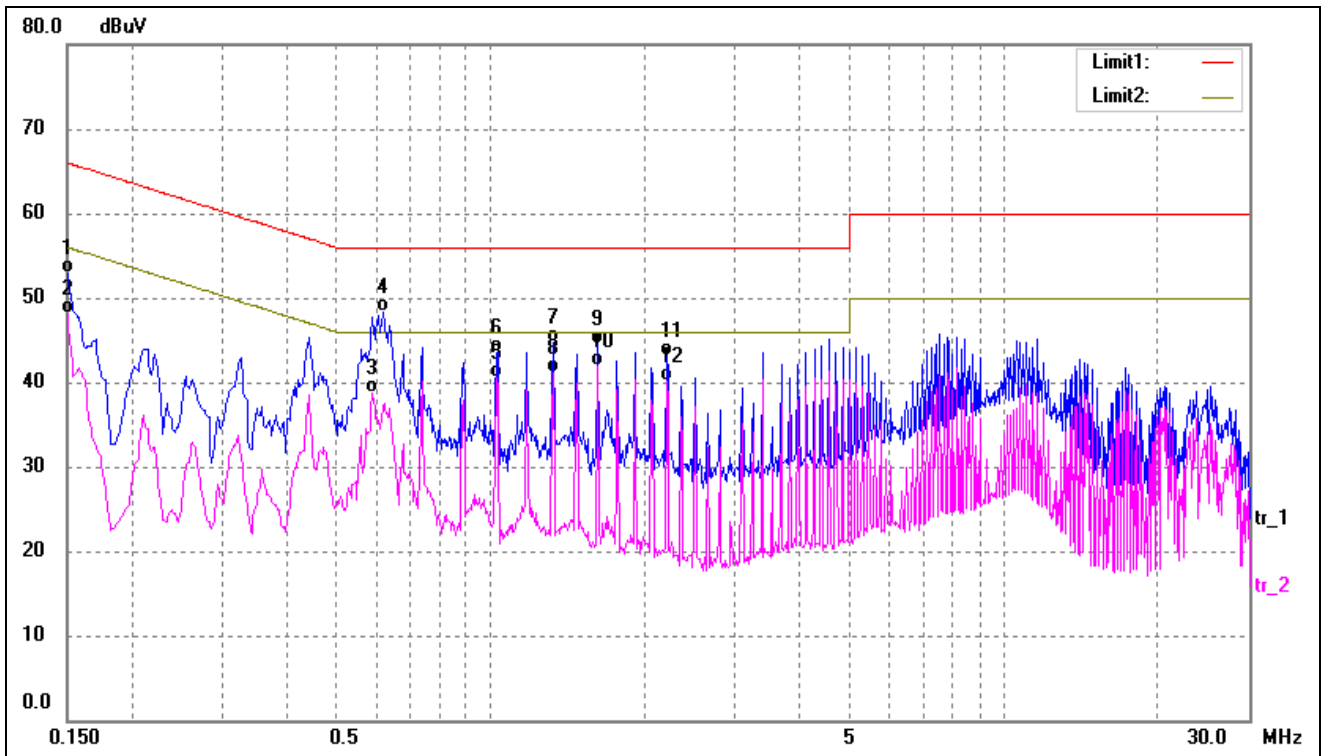
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4380	32.46	10.28	42.74	57.10	-14.36	QP
2	0.4380	28.15	10.28	38.43	47.10	-8.67	AVG
3	0.6180	36.82	10.33	47.15	56.00	-8.85	QP
4	0.6220	28.37	10.33	38.70	46.00	-7.30	AVG
5	1.1620	32.41	10.49	42.90	56.00	-13.10	QP
6	1.1620	28.87	10.49	39.36	46.00	-6.64	AVG
7	2.4700	33.86	10.11	43.97	56.00	-12.03	QP
8*	2.4700	30.95	10.11	41.06	46.00	-4.94	AVG
9	4.7940	30.26	10.01	40.27	46.00	-5.73	AVG
10	4.7980	33.83	10.01	43.84	56.00	-12.16	QP
11	7.1180	34.75	9.95	44.70	60.00	-15.30	QP
12	7.1180	30.25	9.95	40.20	50.00	-9.80	AVG

Test mode:	TM2	Polarity:	Line
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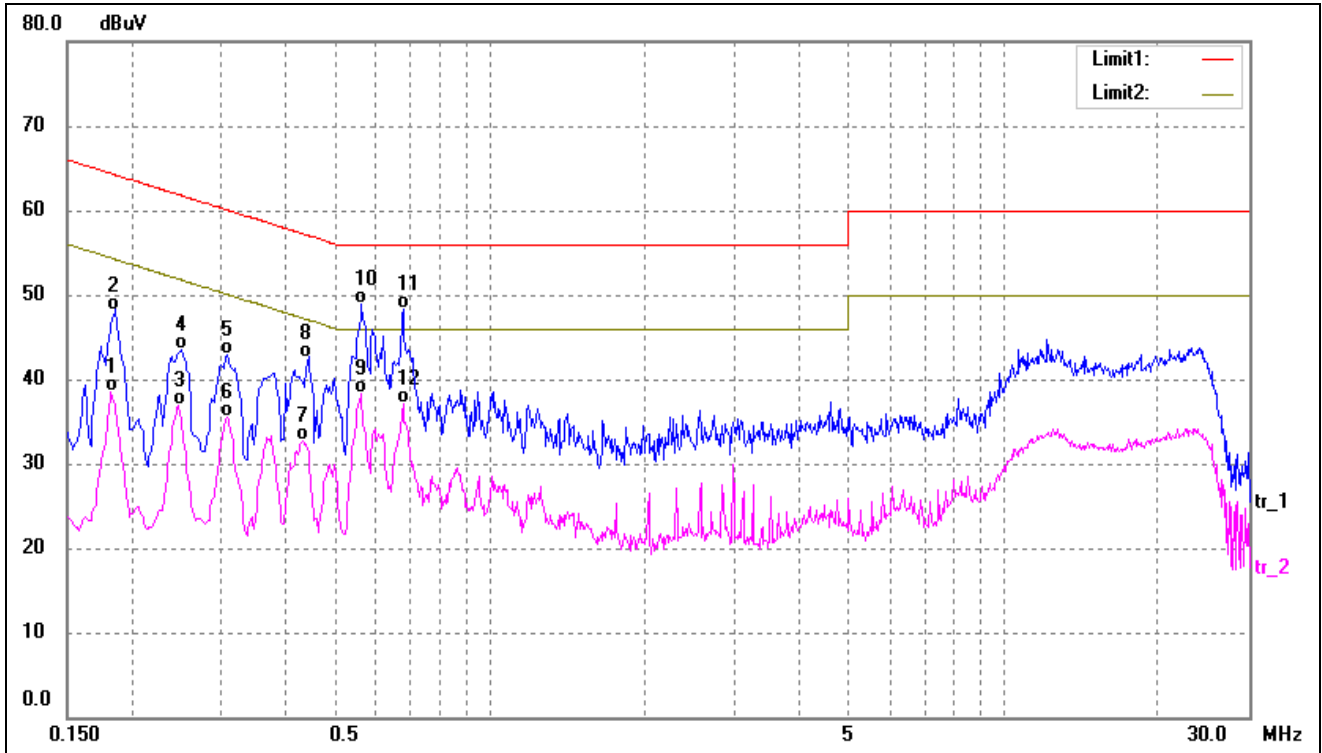
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.6180	38.13	10.33	48.46	56.00	-7.54	QP
2	0.6220	29.61	10.33	39.94	46.00	-6.06	AVG
3	1.0300	27.01	10.55	37.56	46.00	-8.44	AVG
4	1.0339	31.98	10.55	42.53	56.00	-13.47	QP
5	1.3260	32.66	10.42	43.08	56.00	-12.92	QP
6	1.3260	29.13	10.42	39.55	46.00	-6.45	AVG
7	1.6220	33.90	10.29	44.19	56.00	-11.81	QP
8	1.6220	30.34	10.29	40.63	46.00	-5.37	AVG
9	1.9180	33.47	10.16	43.63	56.00	-12.37	QP
10*	1.9180	30.62	10.16	40.78	46.00	-5.22	AVG
11	2.2100	29.91	10.12	40.03	46.00	-5.97	AVG
12	2.2139	33.03	10.12	43.15	56.00	-12.85	QP

Test mode:	TM2	Polarity:	Neutral
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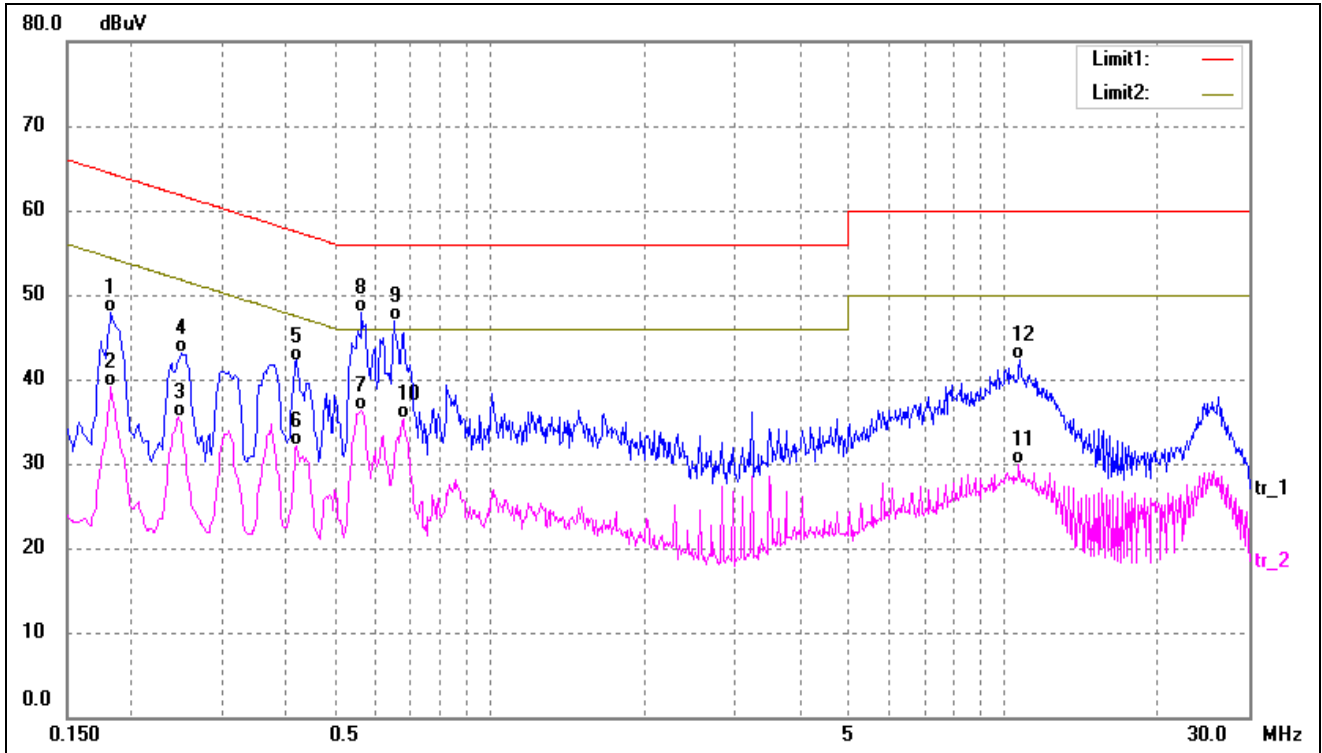
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	42.45	10.38	52.83	65.99	-13.16	QP
2	0.1500	37.72	10.38	48.10	55.99	-7.89	AVG
3	0.5899	28.39	10.31	38.70	46.00	-7.30	AVG
4	0.6180	37.90	10.33	48.23	56.00	-7.77	QP
5	1.0300	29.95	10.55	40.50	46.00	-5.50	AVG
6	1.0339	32.98	10.55	43.53	56.00	-12.47	QP
7	1.3260	34.19	10.42	44.61	56.00	-11.39	QP
8	1.3260	30.67	10.42	41.09	46.00	-4.91	AVG
9	1.6220	34.13	10.29	44.42	56.00	-11.58	QP
10*	1.6220	31.60	10.29	41.89	46.00	-4.11	AVG
11	2.2100	32.95	10.12	43.07	56.00	-12.93	QP
12	2.2100	30.04	10.12	40.16	46.00	-5.84	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	0.1819	28.08	10.37	38.45	54.39	-15.94	AVG
2	0.1860	37.83	10.37	48.20	64.21	-16.01	QP
3	0.2460	26.63	10.35	36.98	51.89	-14.91	AVG
4	0.2500	33.20	10.35	43.55	61.75	-18.20	QP
5	0.3060	32.66	10.33	42.99	60.08	-17.09	QP
6	0.3060	25.23	10.33	35.56	50.08	-14.52	AVG
7	0.4300	22.49	10.28	32.77	47.25	-14.48	AVG
8	0.4420	32.32	10.28	42.60	57.02	-14.42	QP
9	0.5580	27.98	10.29	38.27	46.00	-7.73	AVG
10*	0.5620	38.54	10.30	48.84	56.00	-7.16	QP
11	0.6780	37.84	10.37	48.21	56.00	-7.79	QP
12	0.6780	26.80	10.37	37.17	46.00	-8.83	AVG

Test mode:	TM3	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1819	37.52	10.37	47.89	64.39	-16.50	QP
2	0.1819	28.66	10.37	39.03	54.39	-15.36	AVG
3	0.2460	25.09	10.35	35.44	51.89	-16.45	AVG
4	0.2500	32.70	10.35	43.05	61.75	-18.70	QP
5	0.4180	31.91	10.29	42.20	57.49	-15.29	QP
6	0.4180	21.84	10.29	32.13	47.49	-15.36	AVG
7	0.5580	26.07	10.29	36.36	46.00	-9.64	AVG
8*	0.5620	37.66	10.30	47.96	56.00	-8.04	QP
9	0.6500	36.53	10.35	46.88	56.00	-9.12	QP
10	0.6780	24.90	10.37	35.27	46.00	-10.73	AVG
11	10.6820	19.94	9.90	29.84	50.00	-20.16	AVG
12	10.7780	32.39	9.92	42.31	60.00	-17.69	QP

4. Radiated Emissions

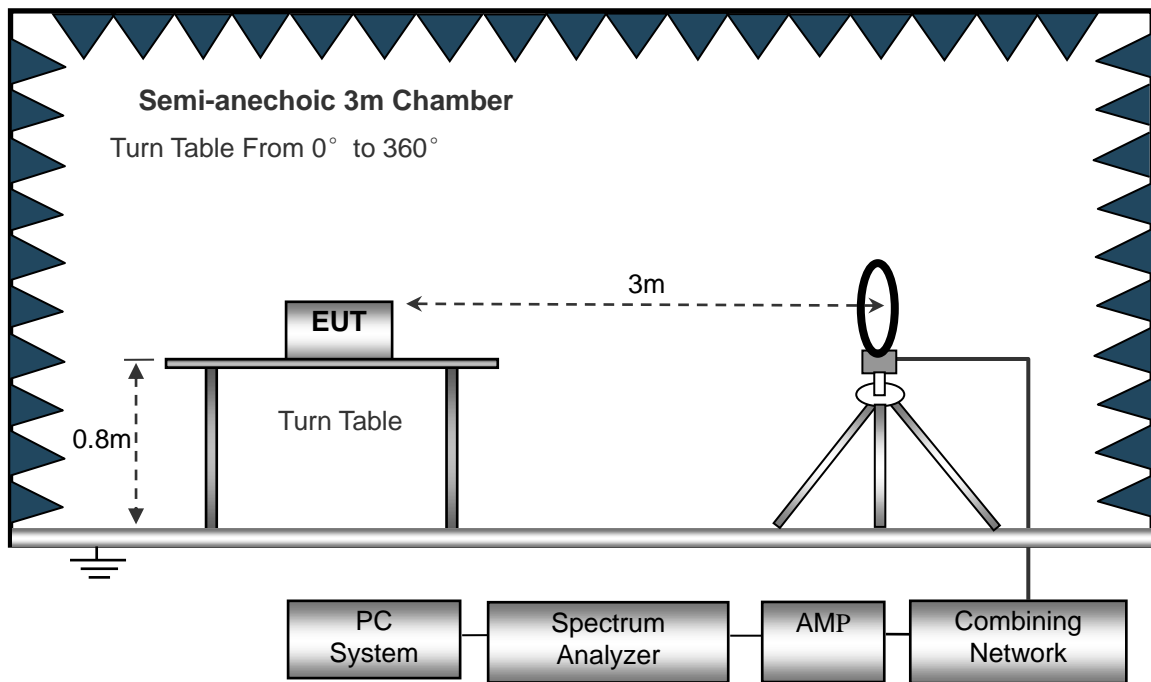
4.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 18.305 Limit.

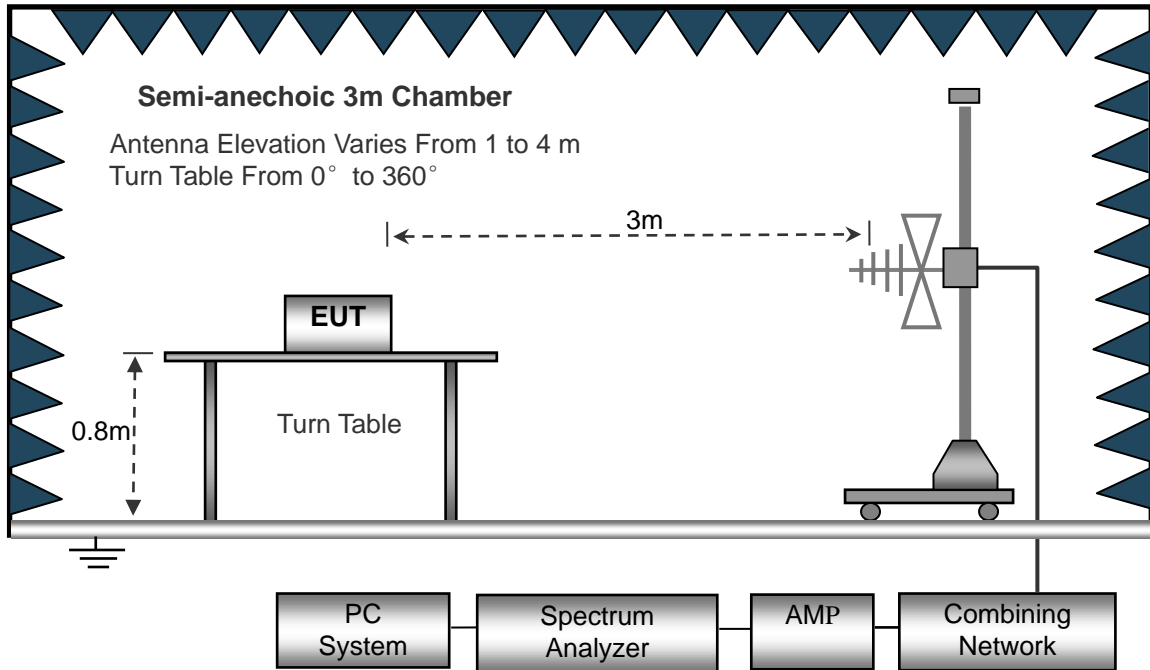
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

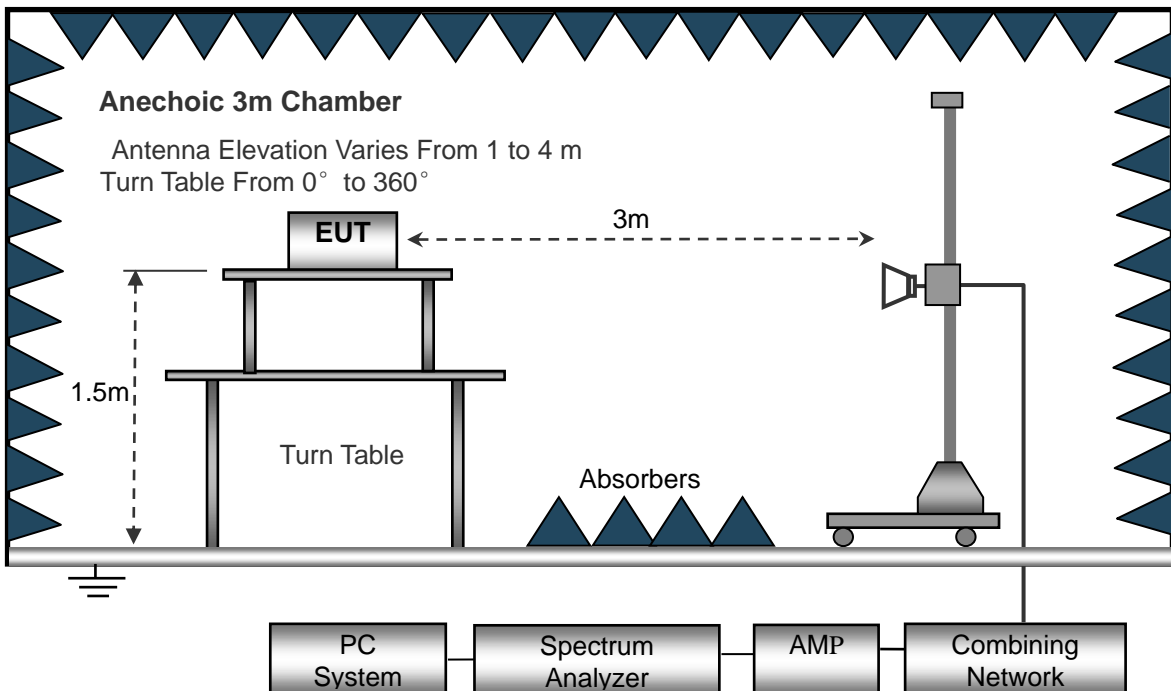
The test setup for emission measurement below 30MHz..



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



The test setup for emission measurement above 1 GHz..



4.2 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

4.3 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 Any non-ISM frequency device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 18.305 Limit}$$

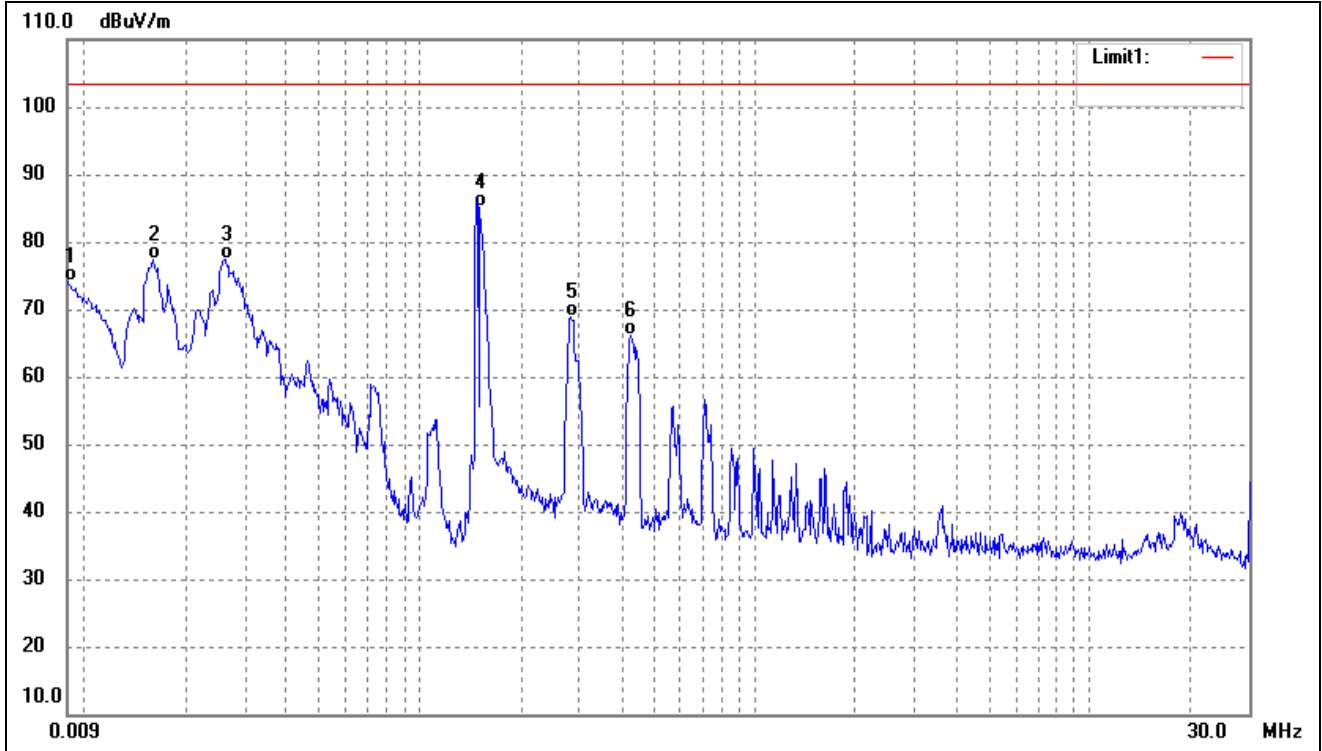
4.4 Environmental Conditions

Temperature:	22.5 °C
Relative Humidity:	54 %
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

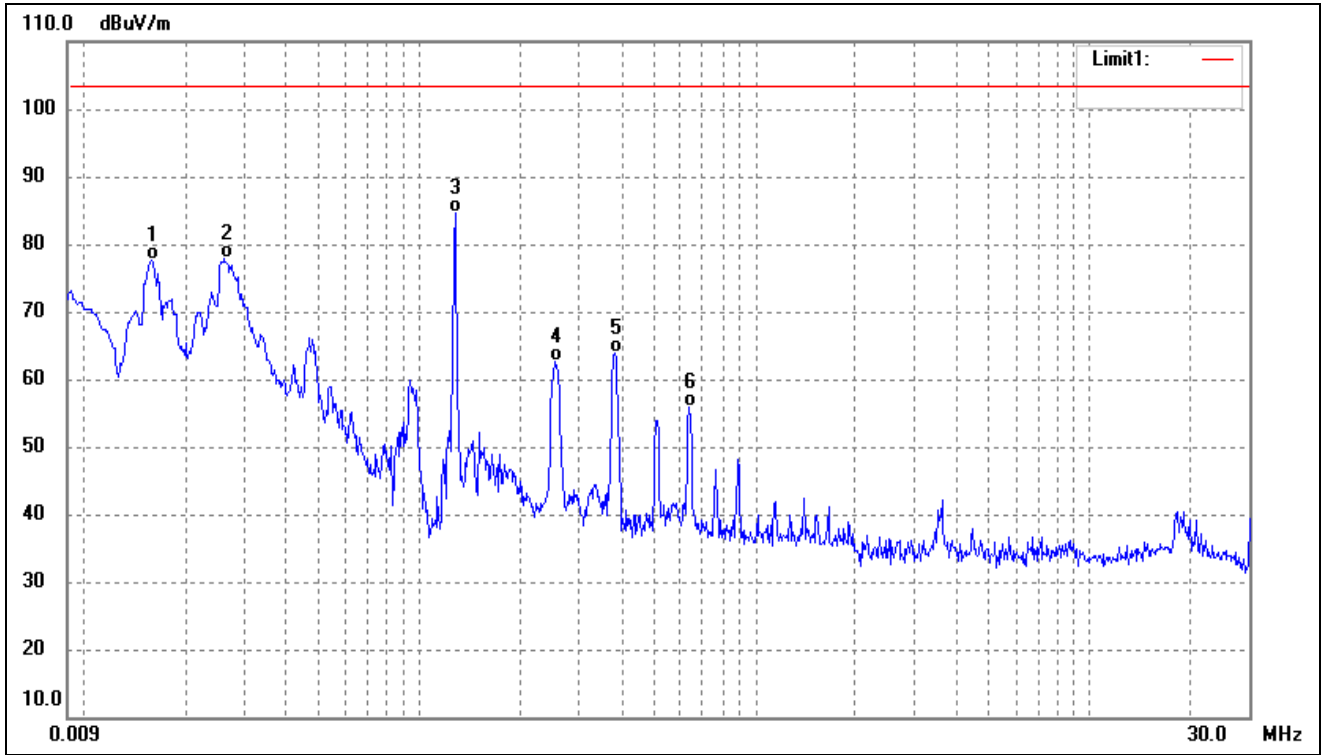
Plot of Radiated Emissions Test Data (Below 30MHz)

Test mode:	TM1	Polarity:	Vertical
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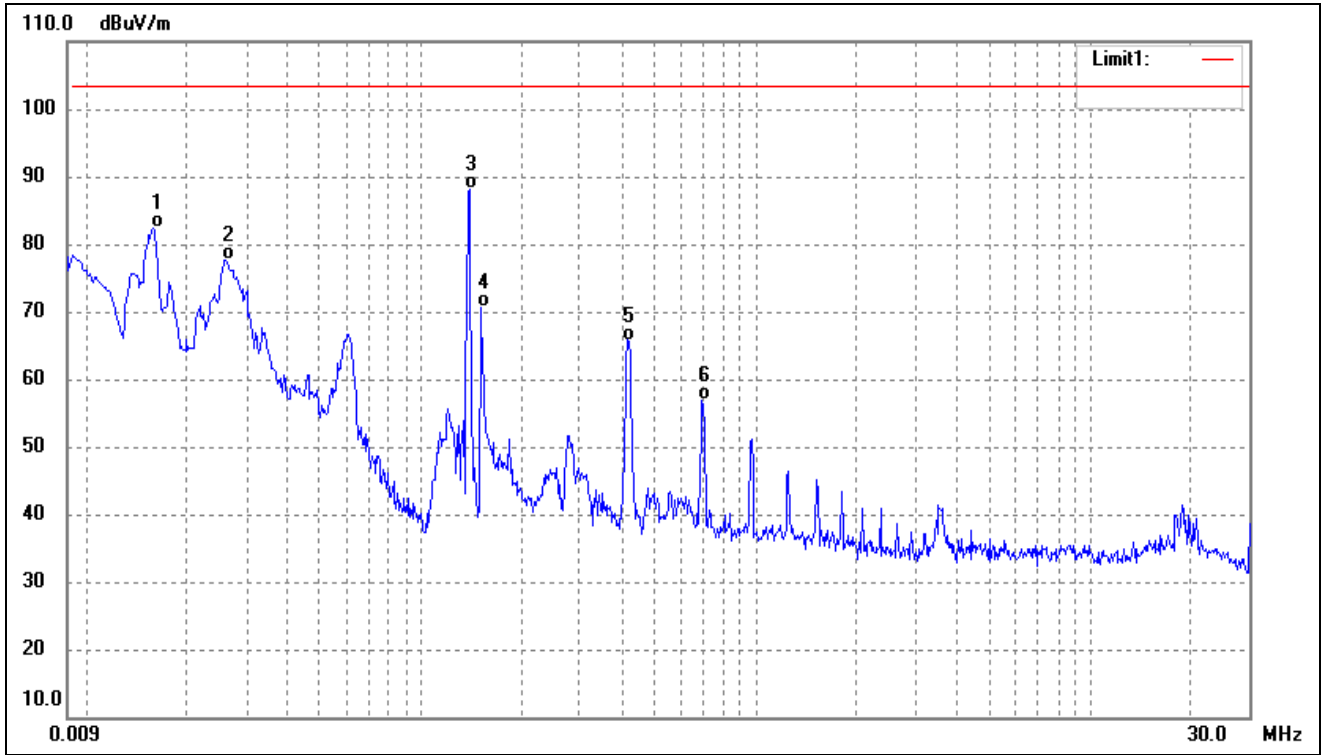
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0090	79.20	-4.98	74.22	103.50	-29.28	-	-	QP
2	0.0159	82.87	-5.58	77.29	103.50	-26.21	-	-	QP
3	0.0261	82.62	-5.22	77.40	103.50	-26.10	-	-	QP
4	0.1500	89.20	-4.19	85.01	103.50	-18.49	-	-	QP
5	0.2833	73.70	-4.93	68.77	103.50	-34.73	-	-	QP
6	0.4237	70.66	-4.64	66.02	103.50	-37.48	-	-	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	0.0158	83.18	-5.58	77.60	103.50	-25.90	-	-	QP
2	0.0262	83.19	-5.22	77.97	103.50	-25.53	-	-	QP
3	0.1274	89.10	-4.43	84.67	103.50	-18.83	-	-	QP
4	0.2548	67.58	-4.98	62.60	103.50	-40.90	-	-	QP
5	0.3811	68.53	-4.72	63.81	103.50	-39.69	-	-	QP
6	0.6338	59.60	-3.78	55.82	103.50	-47.68	-	-	QP

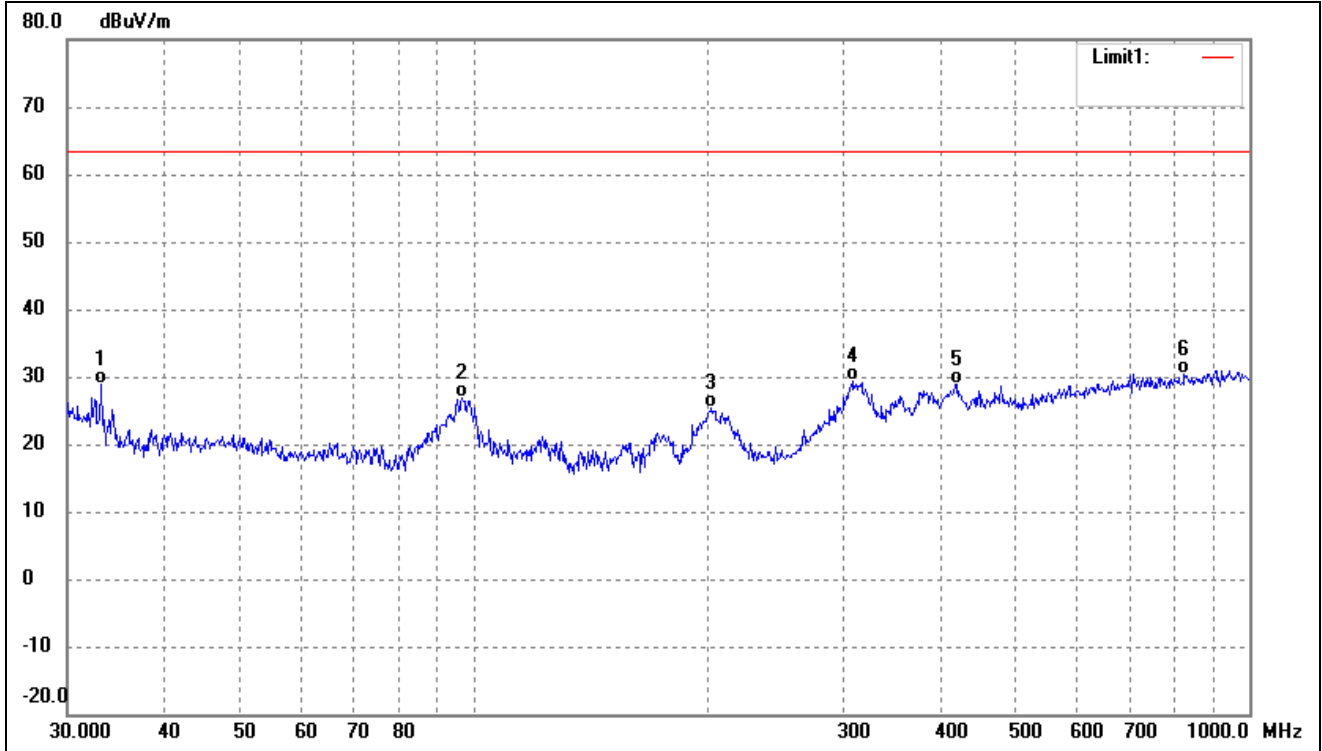
Test mode:	TM3	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0159	88.00	-5.58	82.42	103.50	-21.08	-	-	QP
2	0.0262	82.97	-5.22	77.75	103.50	-25.75	-	-	QP
3	0.1389	92.40	-4.30	88.10	103.50	-15.40	-	-	QP
4	0.1500	74.89	-4.19	70.70	103.50	-32.80	-	-	QP
5	0.4148	70.40	-4.65	65.75	103.50	-37.75	-	-	QP
6	0.6936	56.82	0.00	56.82	103.50	-46.68	-	-	QP

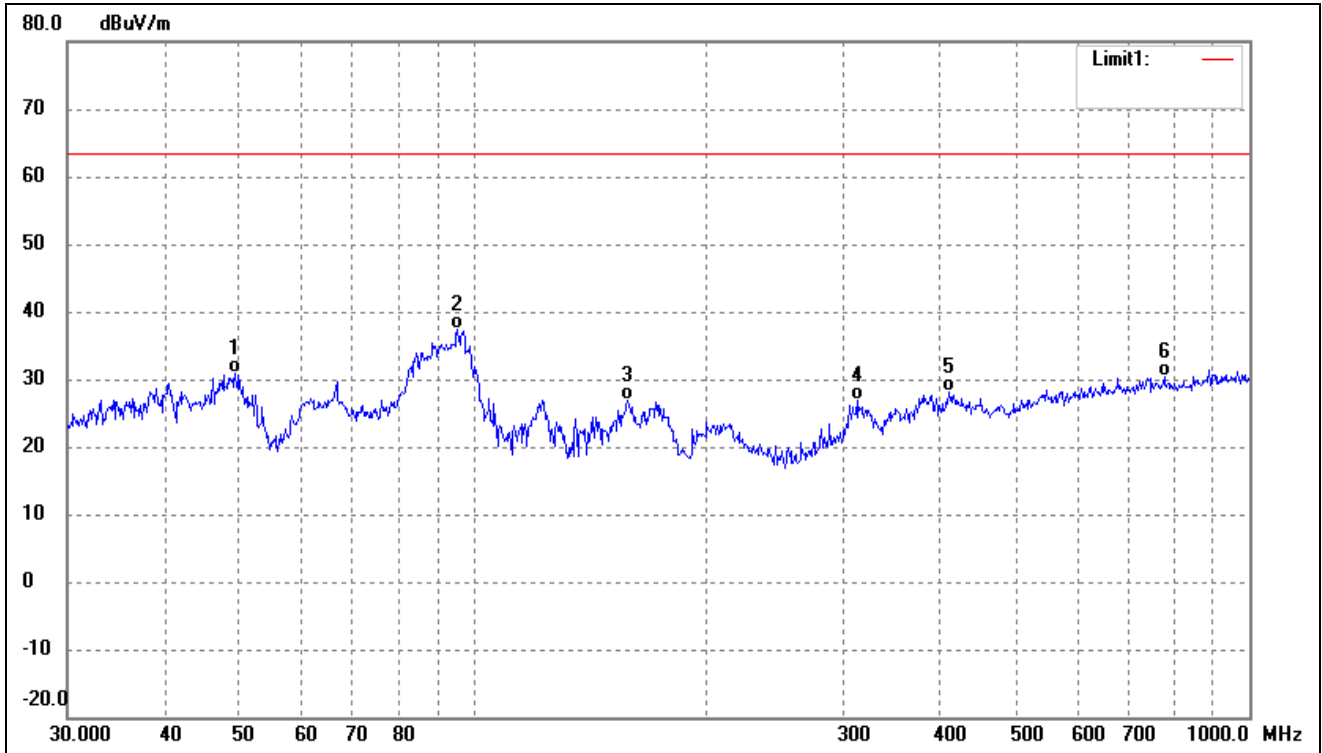
Plot of Radiated Emissions Test Data (Above 30MHz)

Test mode:	TM1	Polarity:	Horizontal
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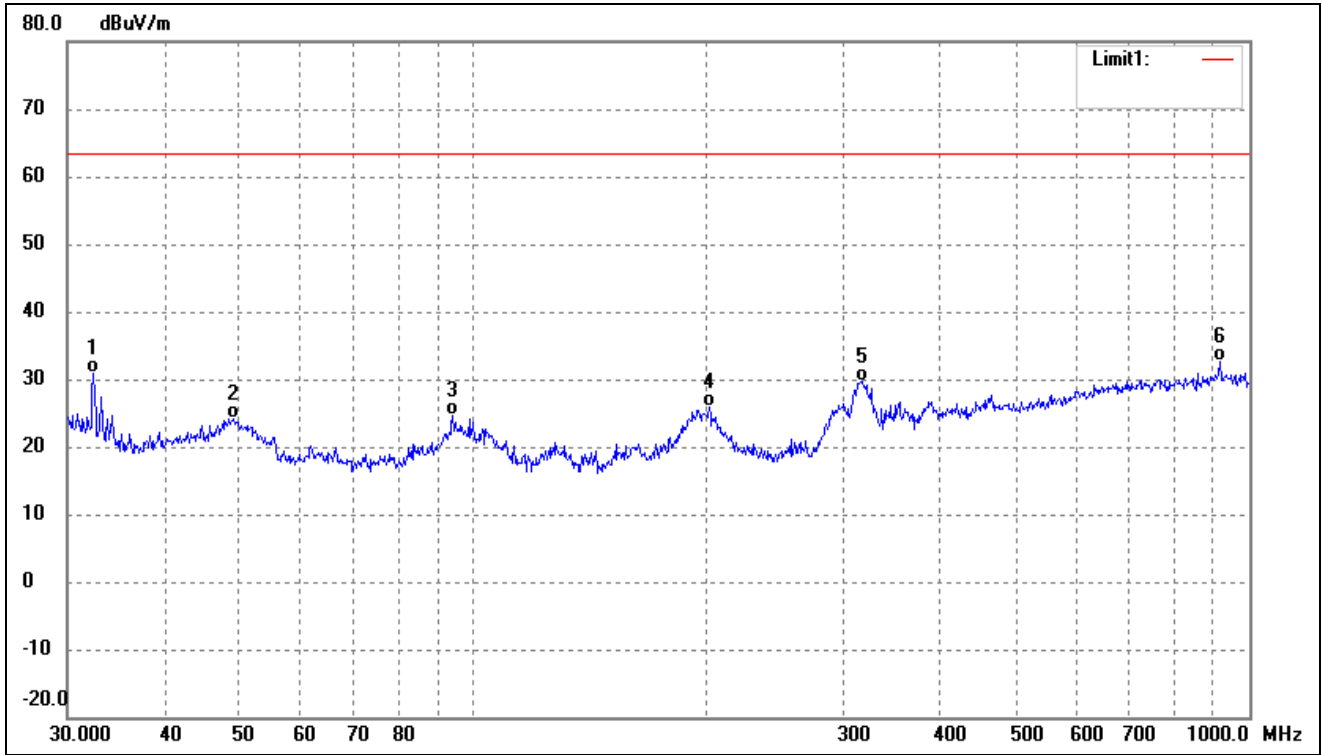
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.2112	37.53	-8.67	28.86	63.50	-34.64	-	-	QP
2	96.7749	36.16	-9.33	26.83	63.50	-36.67	-	-	QP
3	202.8104	34.90	-9.62	25.28	63.50	-38.22	-	-	QP
4	307.8313	36.03	-6.71	29.32	63.50	-34.18	-	-	QP
5	420.5803	32.30	-3.34	28.96	63.50	-34.54	-	-	QP
6	824.5968	28.25	2.23	30.48	63.50	-33.02	-	-	QP

Test mode:	TM1	Polarity:	Vertical
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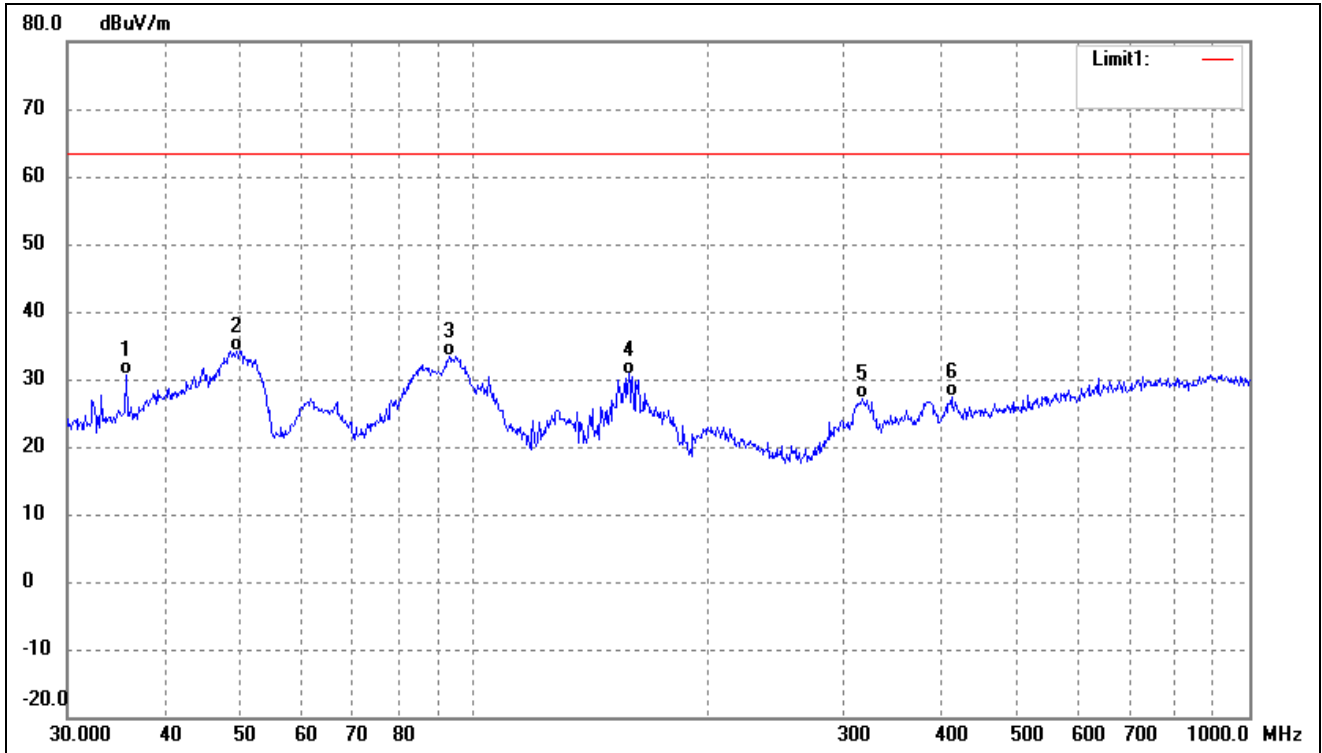
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.3594	37.73	-6.96	30.77	63.50	-32.73	-	-	QP
2	95.4270	46.87	-9.58	37.29	63.50	-26.21	-	-	QP
3	158.1123	39.09	-12.26	26.83	63.50	-36.67	-	-	QP
4	312.1794	33.39	-6.59	26.80	63.50	-36.70	-	-	QP
5	410.3825	31.79	-3.61	28.18	63.50	-35.32	-	-	QP
6	776.8778	28.49	1.94	30.43	63.50	-33.07	-	-	QP

Test mode:	TM2	Polarity:	Horizontal
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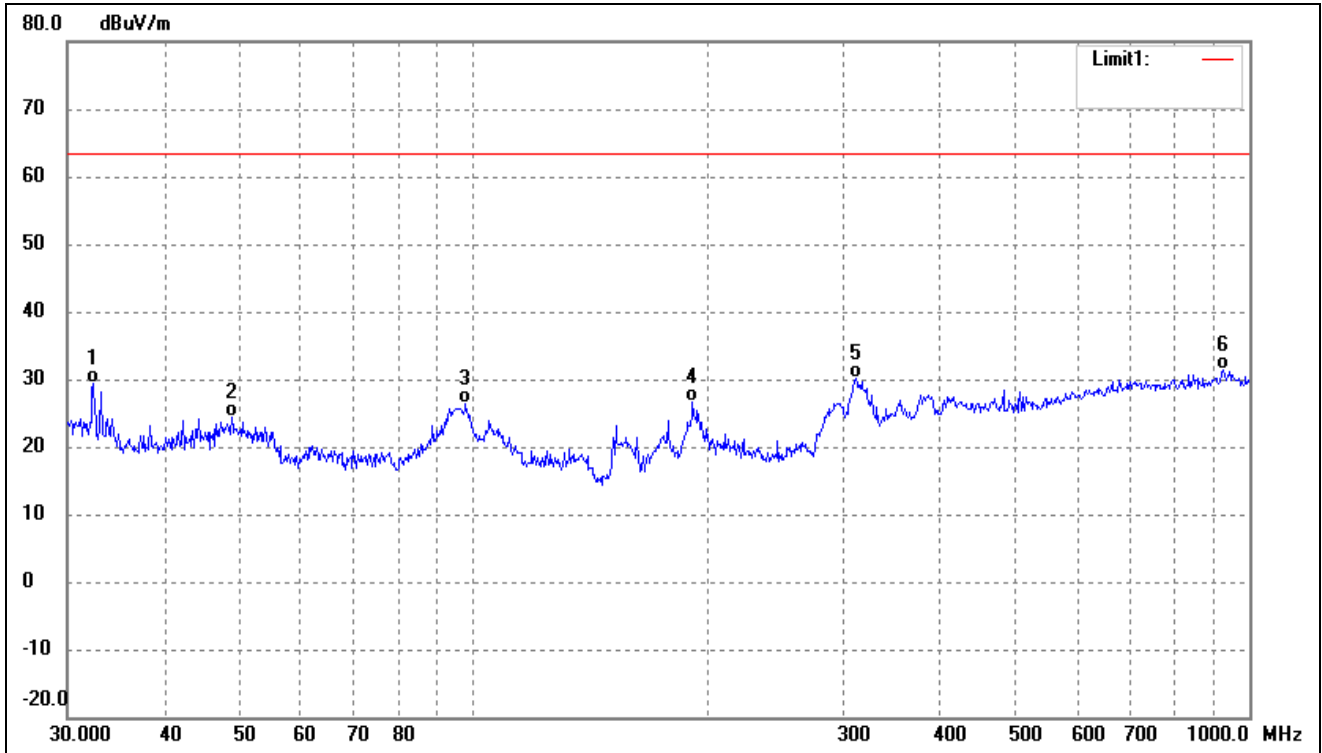
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	32.4059	39.77	-8.85	30.92	63.50	-32.58	-	-	QP
2	49.1865	31.21	-6.97	24.24	63.50	-39.26	-	-	QP
3	94.0979	34.42	-9.82	24.60	63.50	-38.90	-	-	QP
4	201.3930	35.53	-9.66	25.87	63.50	-37.63	-	-	QP
5	317.7011	36.06	-6.41	29.65	63.50	-33.85	-	-	QP
6	916.0687	29.89	2.69	32.58	63.50	-30.92	-	-	QP

Test mode:	TM2	Polarity:	Vertical
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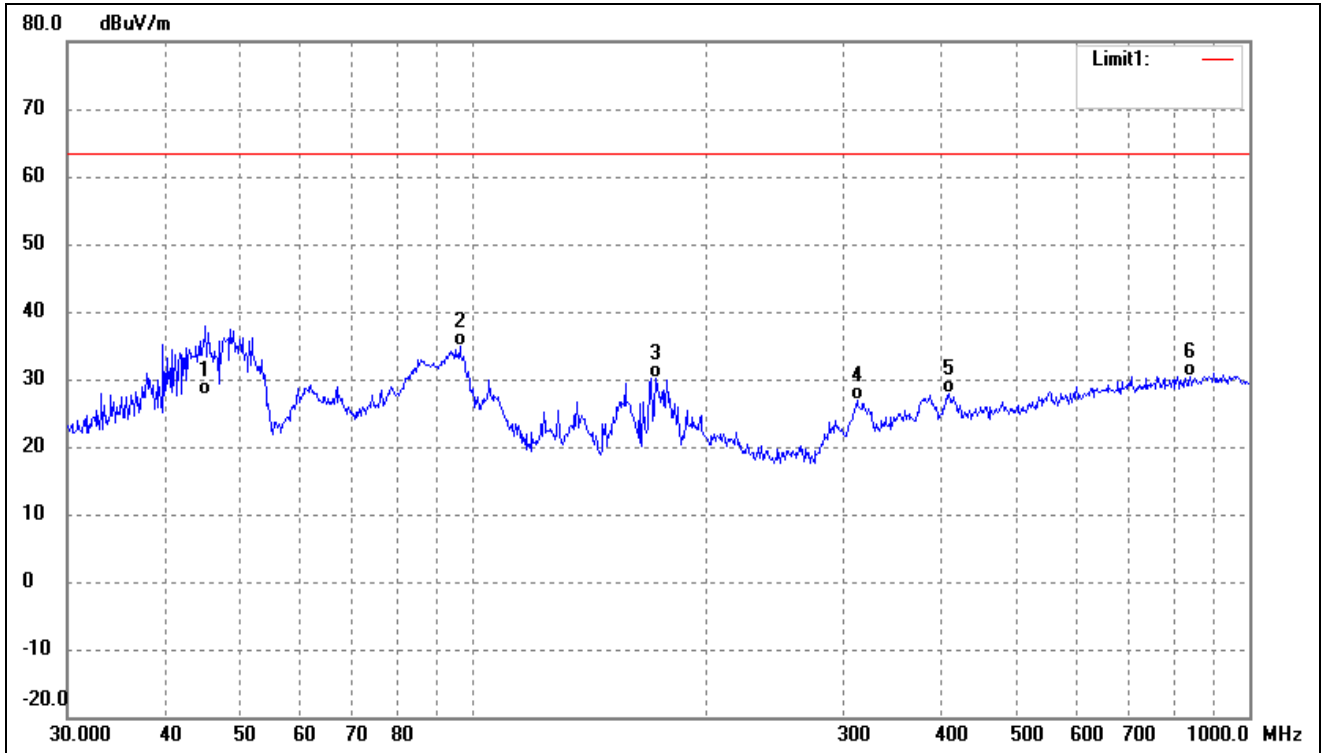
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7490	38.67	-8.04	30.63	63.50	-32.87	-	-	QP
2	49.5328	41.19	-6.97	34.22	63.50	-29.28	-	-	QP
3	93.1132	43.30	-10.00	33.30	63.50	-30.20	-	-	QP
4	158.6677	42.97	-12.22	30.75	63.50	-32.75	-	-	QP
5	317.7011	33.55	-6.41	27.14	63.50	-36.36	-	-	QP
6	413.2706	30.81	-3.54	27.27	63.50	-36.23	-	-	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	32.4059	38.27	-8.85	29.42	63.50	-34.08	-	-	QP
2	48.8429	31.36	-6.97	24.39	63.50	-39.11	-	-	QP
3	97.7983	35.39	-9.13	26.26	63.50	-37.24	-	-	QP
4	191.7450	36.49	-9.98	26.51	63.50	-36.99	-	-	QP
5	311.0867	36.82	-6.61	30.21	63.50	-33.29	-	-	QP
6	925.7563	28.69	2.66	31.35	63.50	-32.15	-	-	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	45.2166	34.50	-6.99	27.51	63.50	-35.99	-	-	QP
2	96.0986	44.21	-9.45	34.76	63.50	-28.74	-	-	QP
3	171.9946	41.78	-11.63	30.15	63.50	-33.35	-	-	QP
4	312.1794	33.52	-6.59	26.93	63.50	-36.57	-	-	QP
5	410.3825	31.55	-3.61	27.94	63.50	-35.56	-	-	QP
6	839.1818	28.12	2.32	30.44	63.50	-33.06	-	-	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 *******