

TEST REPORT

Reference No...... : WTD22X05090335W001
FCC ID : WWE-2BRQI0653
Applicant : LIFEWORKS TECHNOLOGY GROUP LLC.
Address : 530 7th Ave, 21st Floor | New York, NY 10018,USA
Manufacturer : Kintec Digital Co.,Ltd.
Address : Room 1305, Xulian Building, No. 4, Jiamei Road, Xin An, Chang'An,
Dongguan City,Guangdong,China
Product Name : 15W Wireless Charging with USB-A Charging Port and clock
Model No...... : 2BRQI0653
Standards : FCC Part 18
Date of Receipt sample : 2022-05-10
Date of Test..... : 2022-05-10 to 2022-05-25
Date of Issue : 2022-05-25
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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Jack Huang

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Approved by:

Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2022-05-25	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	15W Wireless Charging with USB-A Charging Port and clock
Trade Name:	Brookstone/iHome
Model No.:	2BRQI0653
Adding Model(s):	2BRQI0653B0G7, 2BRQI0653W0G7
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model 2BRQI0653, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	100~205KHz
Power adapter	ASK
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Rated Voltage:	Input: 5V, 9V, 12V
Rated Current:	Input: 3A, 2A, 2A
Rated Power:	Output: 5W/7.5W/10W/15W

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	Output 5W	Input: 5V, 9V, 12V
TM2	Wireless Charging	Output 10W	Input: 5V, 9V, 12V
TM3	Wireless Charging	Output 15W	Input: 5V, 9V, 12V

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	1. 21	Unshielded	Without Ferrite

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
wireless charging tester	YBZ	YBZ wireless charging tester	/
Adapter	DVE	DSA-18QFB FEU A	/

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:

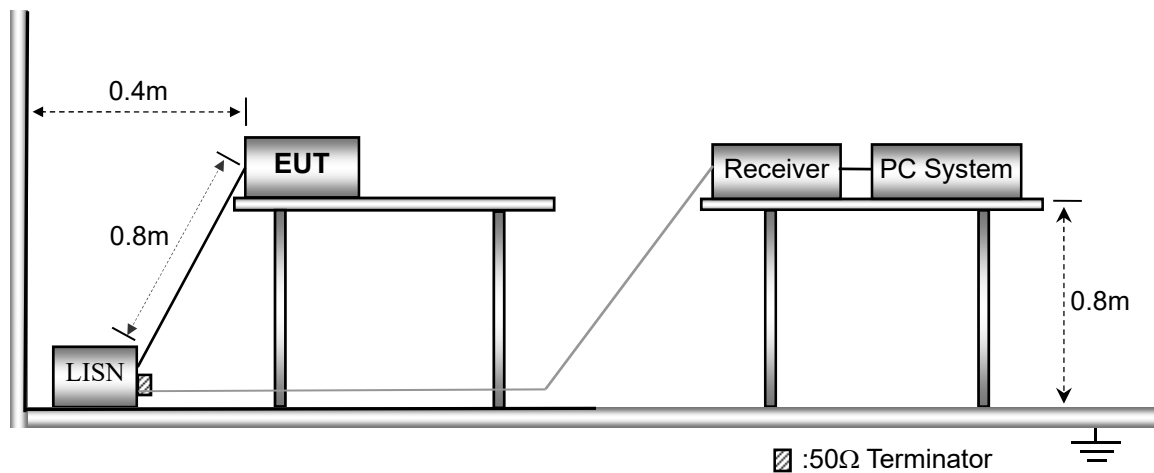
Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

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:	26° C
Relative Humidity:	60%
ATM Pressure:	1016 mbar

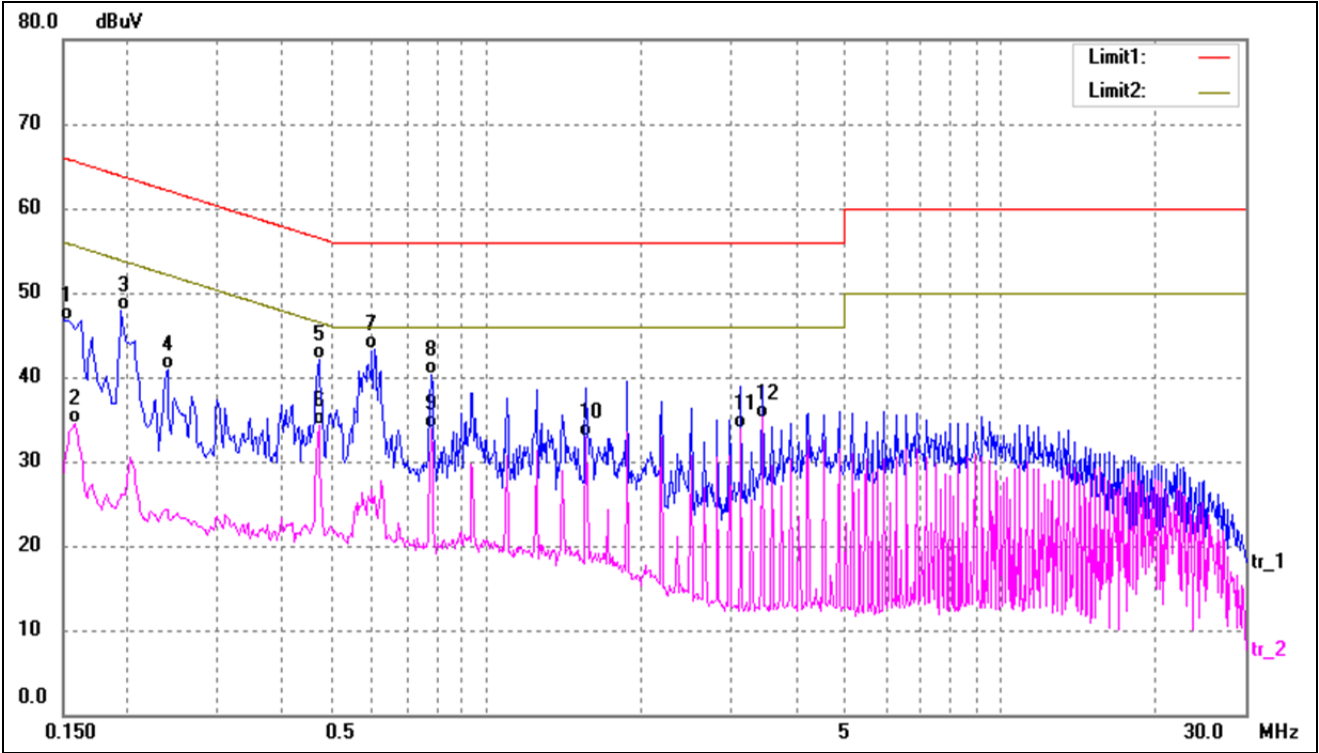
3.5 Test Receiver Setup

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

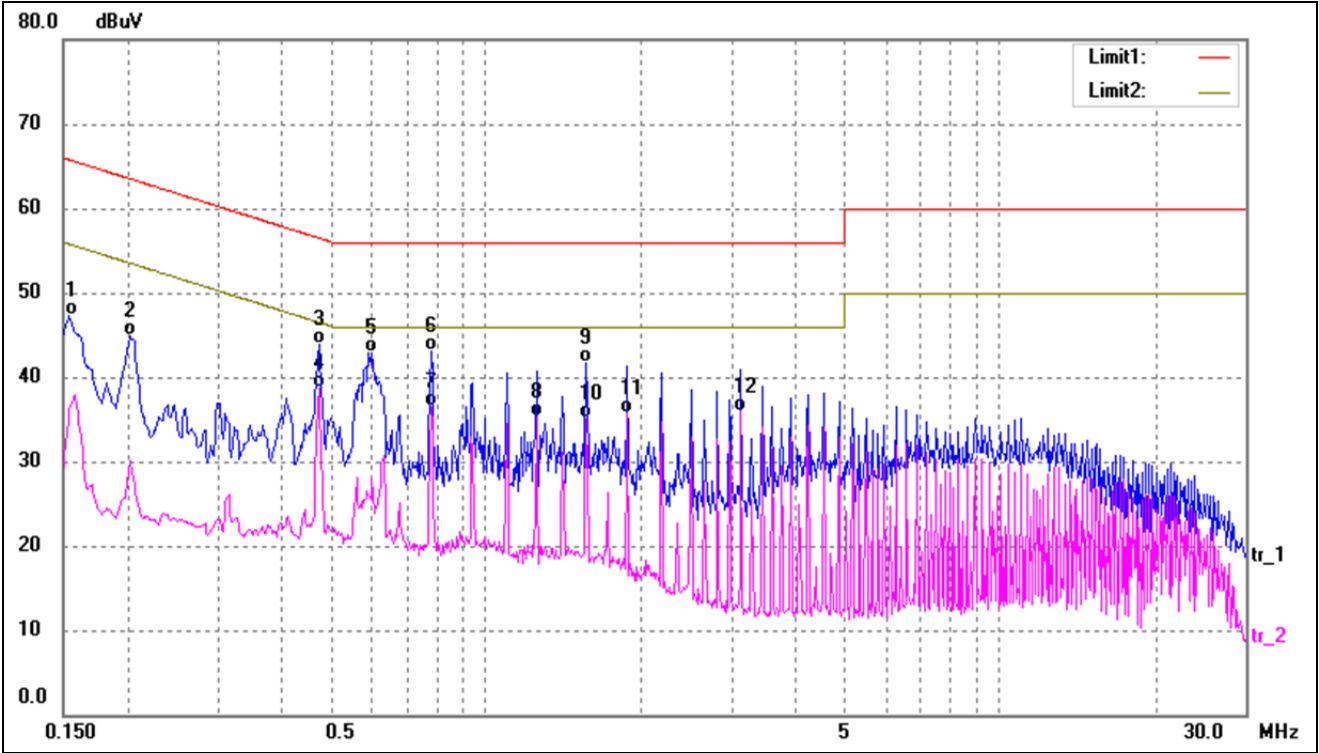
3.6 Summary of Test Results/Plots

Test mode:	TM1	Polarity:	Line
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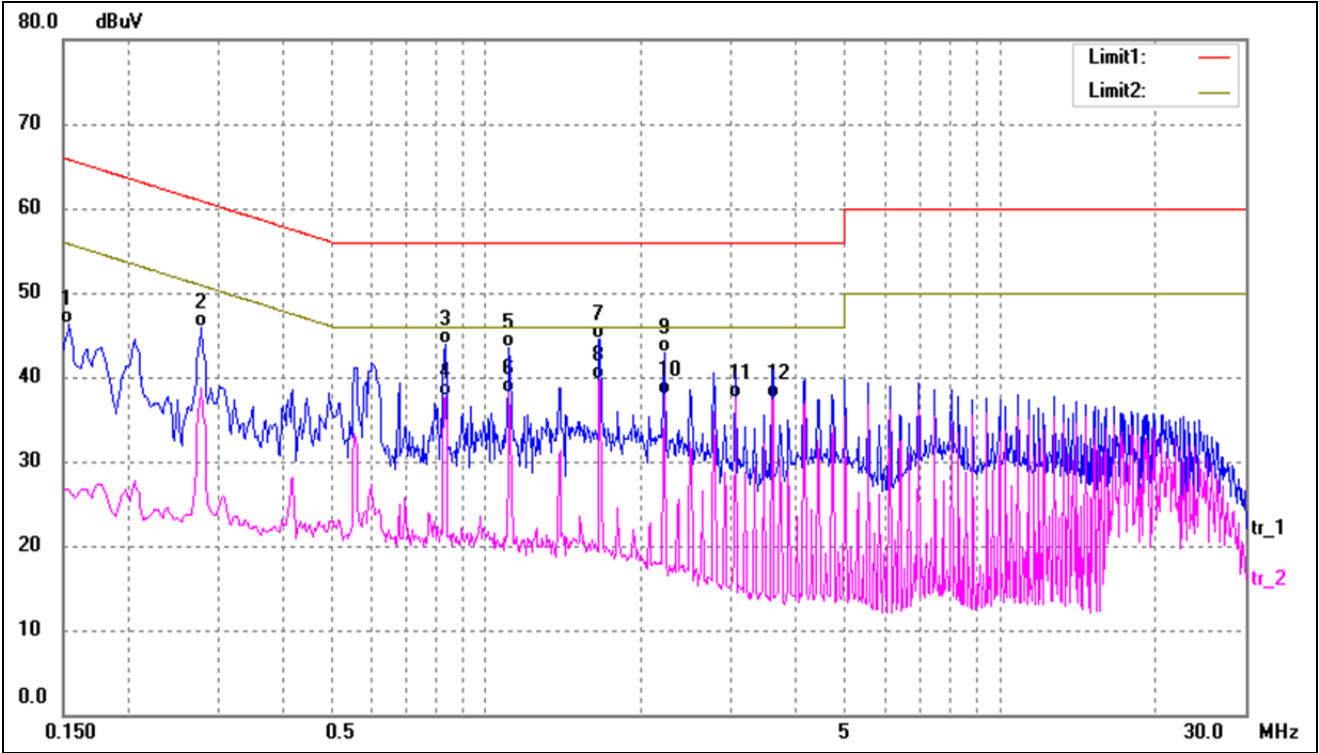
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	36.42	10.38	46.80	66.00	-19.20	QP
2	0.1580	24.21	10.37	34.58	55.57	-20.99	AVG
3	0.1940	37.45	10.37	47.82	63.86	-16.04	QP
4	0.2380	30.45	10.36	40.81	62.17	-21.36	QP
5	0.4700	31.83	10.27	42.10	56.51	-14.41	QP
6	0.4700	24.10	10.27	34.37	46.51	-12.14	AVG
7	0.6060	33.04	10.32	43.36	56.00	-12.64	QP
8	0.7820	29.85	10.43	40.28	56.00	-15.72	QP
9	0.7820	23.50	10.43	33.93	46.00	-12.07	AVG
10	1.5660	22.57	10.31	32.88	46.00	-13.12	AVG
11	3.1300	23.80	10.08	33.88	46.00	-12.12	AVG
12*	3.4420	25.13	10.07	35.20	46.00	-10.80	AVG

Test mode:	TM1	Polarity:	Neutral
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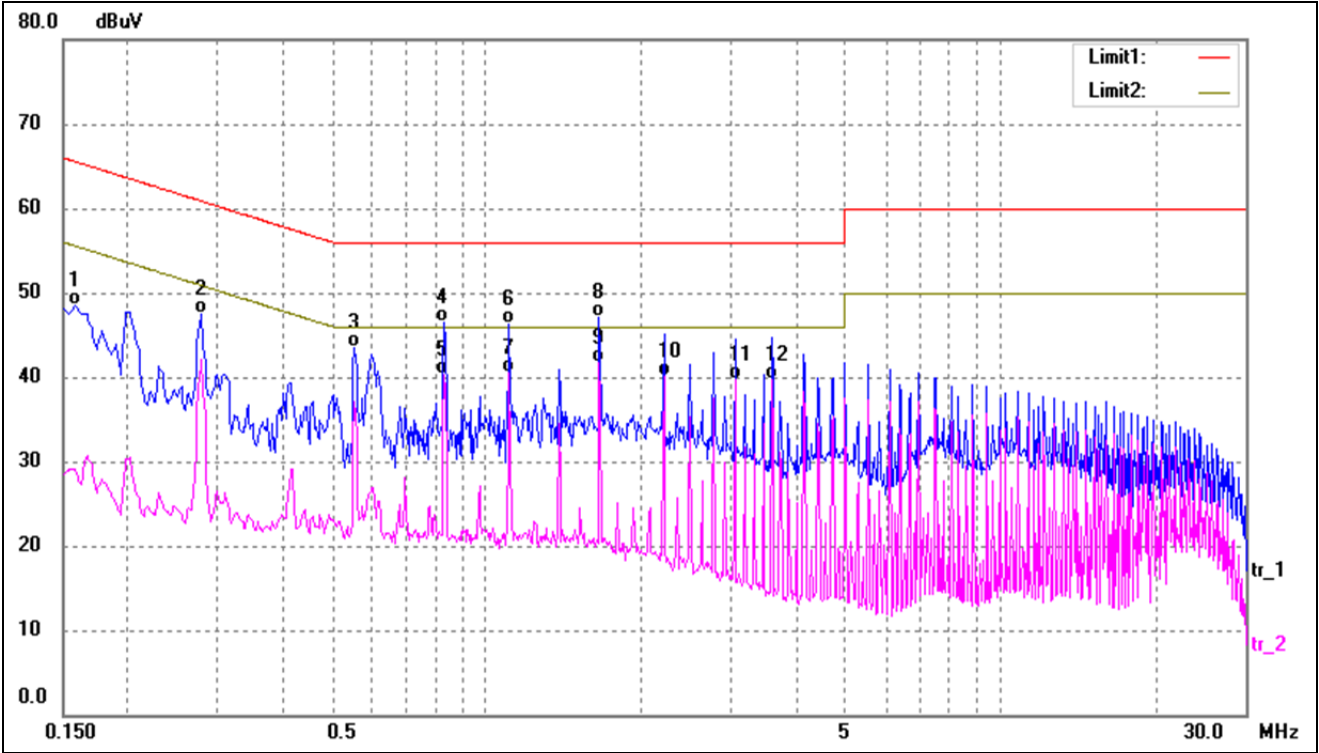
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	36.86	10.37	47.23	65.78	-18.55	QP
2	0.2020	34.57	10.37	44.94	63.53	-18.59	QP
3	0.4700	33.57	10.27	43.84	56.51	-12.67	QP
4*	0.4700	28.34	10.27	38.61	46.51	-7.90	AVG
5	0.5980	32.51	10.32	42.83	56.00	-13.17	QP
6	0.7820	32.71	10.43	43.14	56.00	-12.86	QP
7	0.7820	26.12	10.43	36.55	46.00	-9.45	AVG
8	1.2540	24.83	10.45	35.28	46.00	-10.72	AVG
9	1.5660	31.34	10.31	41.65	56.00	-14.35	QP
10	1.5660	24.75	10.31	35.06	46.00	-10.94	AVG
11	1.8780	25.46	10.18	35.64	46.00	-10.36	AVG
12	3.1300	25.82	10.08	35.90	46.00	-10.10	AVG

Test mode:	TM2	Polarity:	Line
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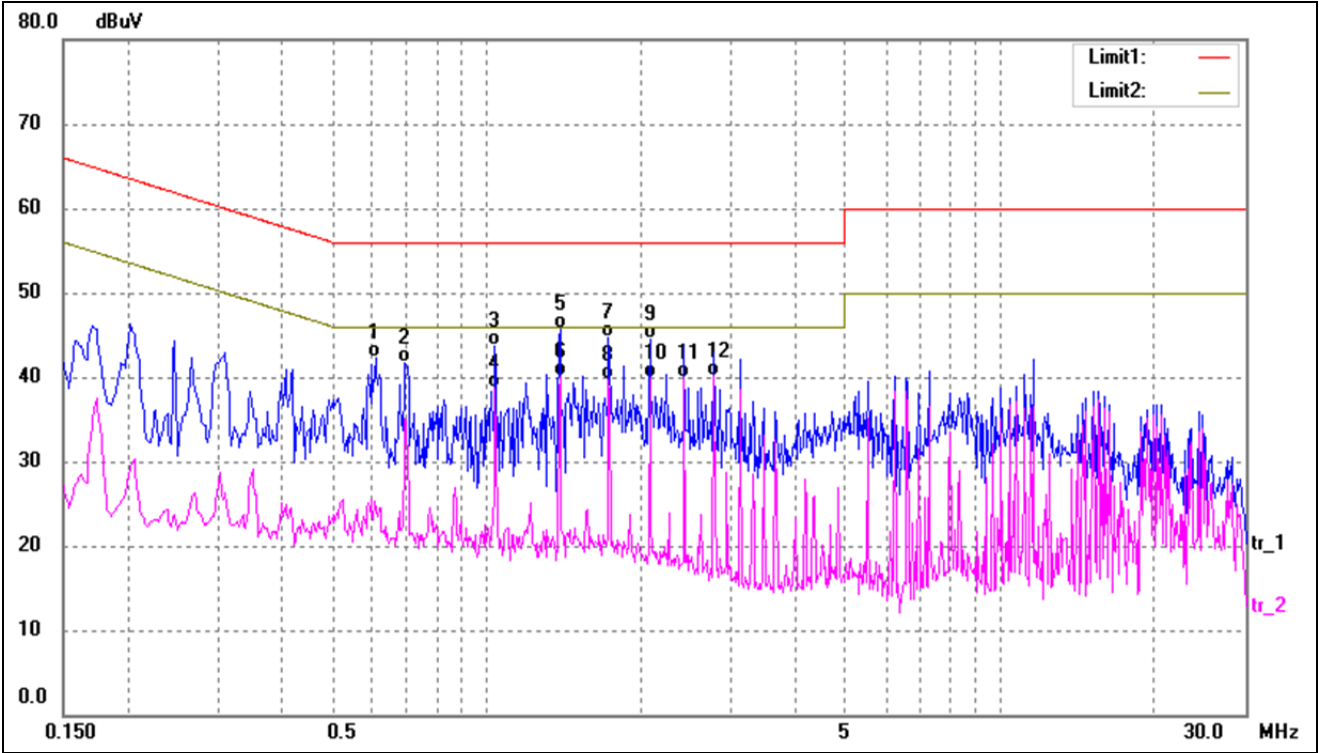
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	35.99	10.37	46.36	65.78	-19.42	QP
2	0.2780	35.49	10.34	45.83	60.88	-15.05	QP
3	0.8340	33.44	10.46	43.90	56.00	-12.10	QP
4	0.8340	27.30	10.46	37.76	46.00	-8.24	AVG
5	1.1100	33.00	10.52	43.52	56.00	-12.48	QP
6	1.1100	27.68	10.52	38.20	46.00	-7.80	AVG
7	1.6620	34.28	10.28	44.56	56.00	-11.44	QP
8*	1.6660	29.45	10.27	39.72	46.00	-6.28	AVG
9	2.2140	32.78	10.12	42.90	56.00	-13.10	QP
10	2.2140	27.73	10.12	37.85	46.00	-8.15	AVG
11	3.0460	27.48	10.08	37.56	46.00	-8.44	AVG
12	3.6100	27.41	10.06	37.47	46.00	-8.53	AVG

Test mode:	TM2	Polarity:	Neutral
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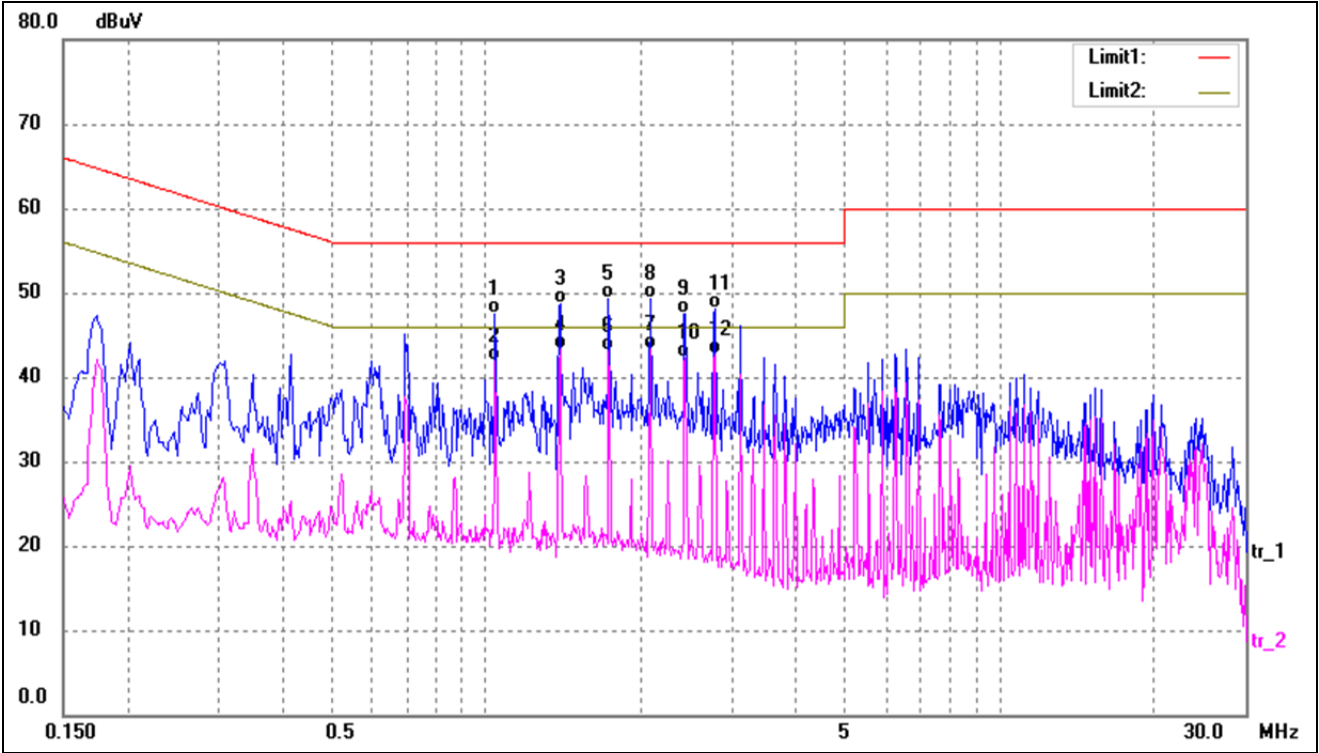
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	38.09	10.37	48.46	65.57	-17.11	QP
2	0.2780	37.16	10.34	47.50	60.88	-13.38	QP
3	0.5540	33.22	10.29	43.51	56.00	-12.49	QP
4	0.8300	36.03	10.46	46.49	56.00	-9.51	QP
5	0.8300	29.84	10.46	40.30	46.00	-5.70	AVG
6	1.1100	35.78	10.52	46.30	56.00	-9.70	QP
7	1.1100	30.06	10.52	40.58	46.00	-5.42	AVG
8	1.6620	36.80	10.28	47.08	56.00	-8.92	QP
9*	1.6620	31.46	10.28	41.74	46.00	-4.26	AVG
10	2.2140	30.05	10.12	40.17	46.00	-5.83	AVG
11	3.0460	29.60	10.08	39.68	46.00	-6.32	AVG
12	3.6020	29.59	10.06	39.65	46.00	-6.35	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	0.6100	31.98	10.33	42.31	56.00	-13.69	QP
2	0.6940	31.40	10.38	41.78	56.00	-14.22	QP
3	1.0420	33.12	10.54	43.66	56.00	-12.34	QP
4	1.0420	28.15	10.54	38.69	46.00	-7.31	AVG
5	1.3900	35.33	10.39	45.72	56.00	-10.28	QP
6*	1.3900	29.77	10.39	40.16	46.00	-5.84	AVG
7	1.7340	34.43	10.25	44.68	56.00	-11.32	QP
8	1.7340	29.50	10.25	39.75	46.00	-6.25	AVG
9	2.0820	34.46	10.13	44.59	56.00	-11.41	QP
10	2.0820	29.85	10.13	39.98	46.00	-6.02	AVG
11	2.4300	29.84	10.11	39.95	46.00	-6.05	AVG
12	2.7740	29.96	10.10	40.06	46.00	-5.94	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	1.0420	36.92	10.54	47.46	56.00	-8.54	QP
2	1.0420	31.43	10.54	41.97	46.00	-4.03	AVG
3	1.3940	38.32	10.39	48.71	56.00	-7.29	QP
4*	1.3940	32.85	10.39	43.24	46.00	-2.76	AVG
5	1.7340	39.09	10.25	49.34	56.00	-6.66	QP
6	1.7340	32.76	10.25	43.01	46.00	-2.99	AVG
7	2.0820	33.11	10.13	43.24	46.00	-2.76	AVG
8	2.0900	39.17	10.13	49.30	56.00	-6.70	QP
9	2.4300	37.48	10.11	47.59	56.00	-8.41	QP
10	2.4380	32.13	10.11	42.24	46.00	-3.76	AVG
11	2.7860	38.04	10.10	48.14	56.00	-7.86	QP
12	2.7860	32.61	10.10	42.71	46.00	-3.29	AVG

4. Radiated Emissions

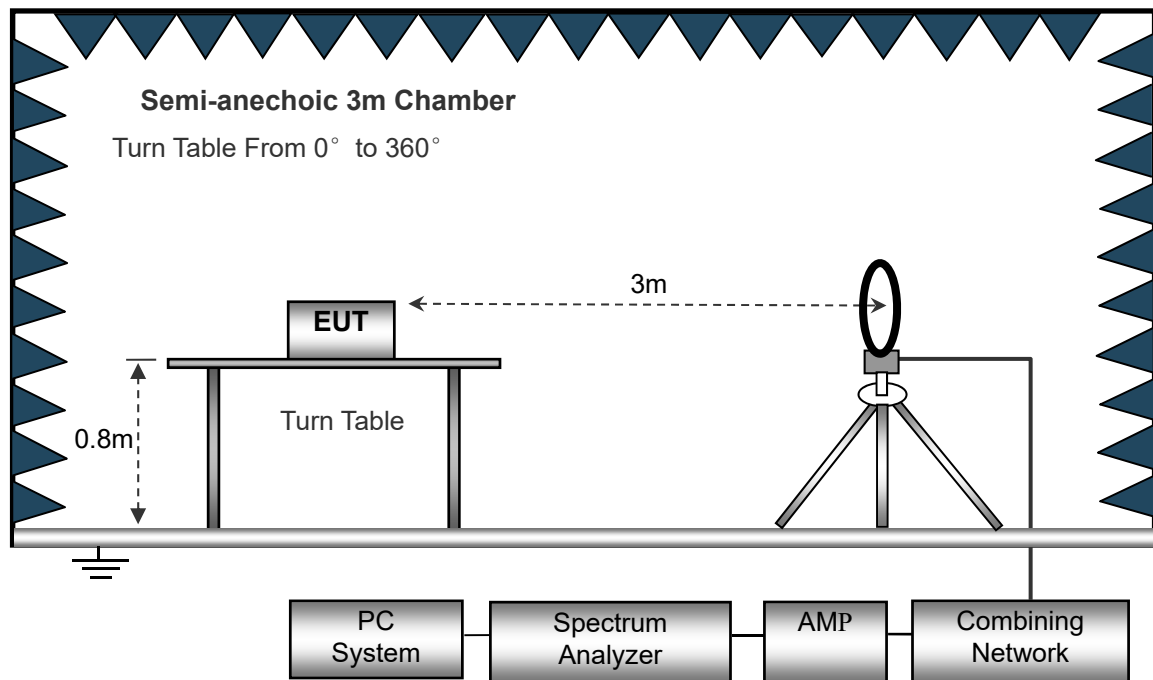
4.1 Test Procedure

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.

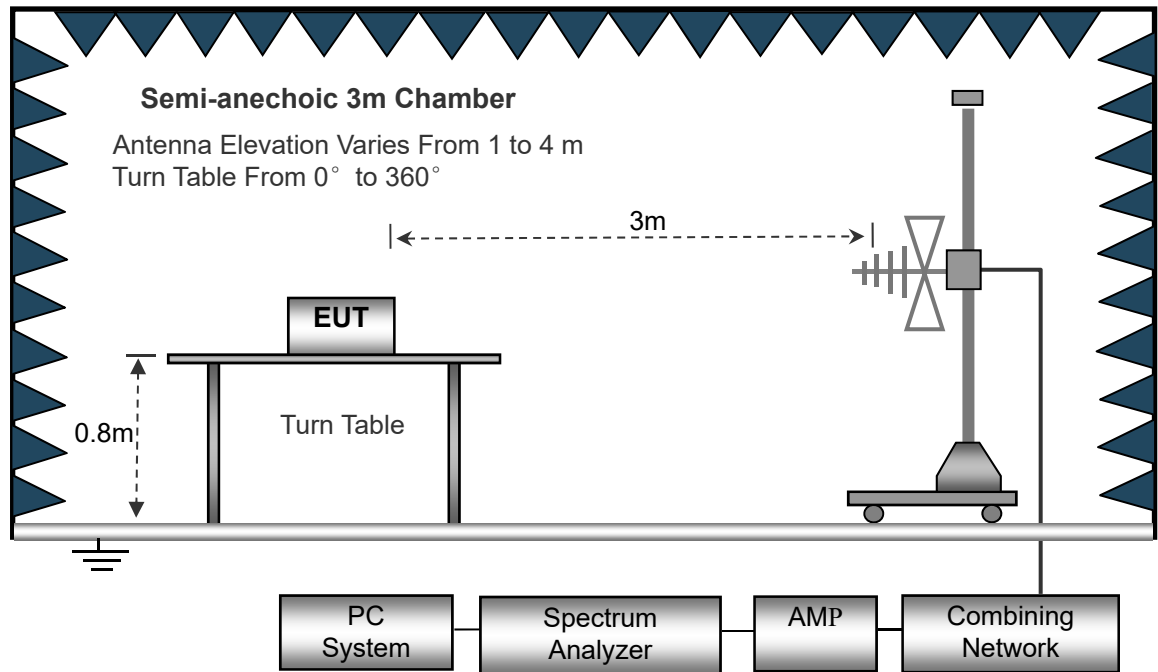
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

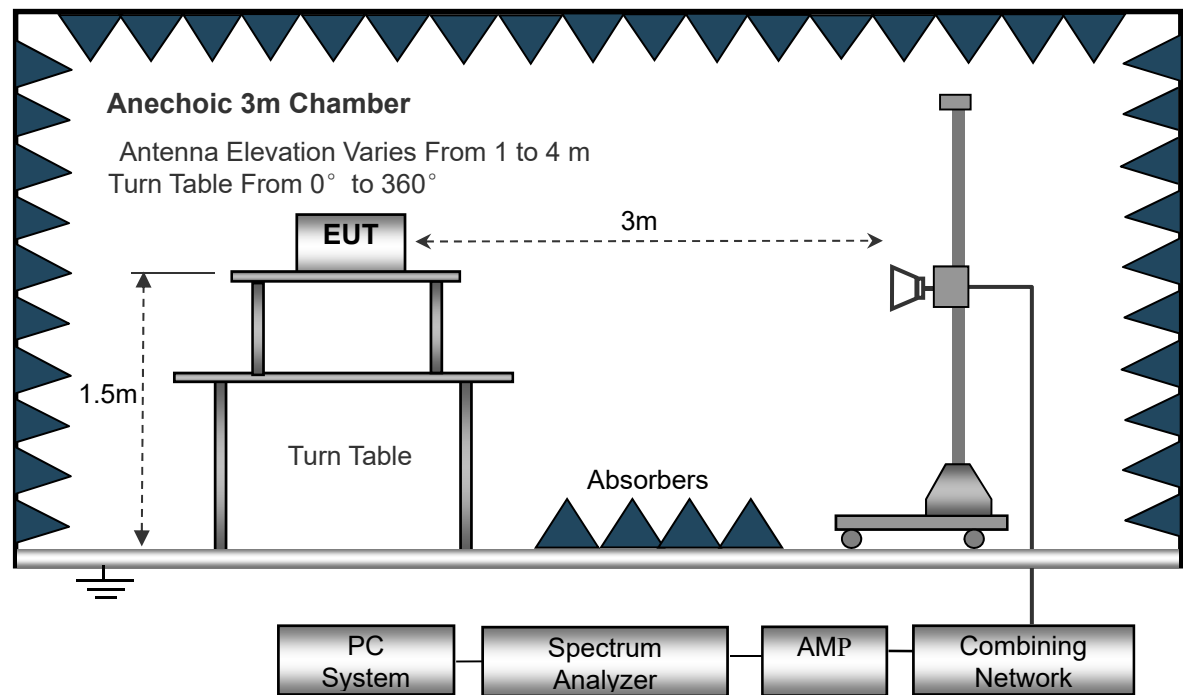
The test setup for emission measurement below 30MHz..



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 -6dBμV means the emission is 6dBμV below the maximum limit for Any non-ISM frequency device. The equation for margin calculation is as follows:

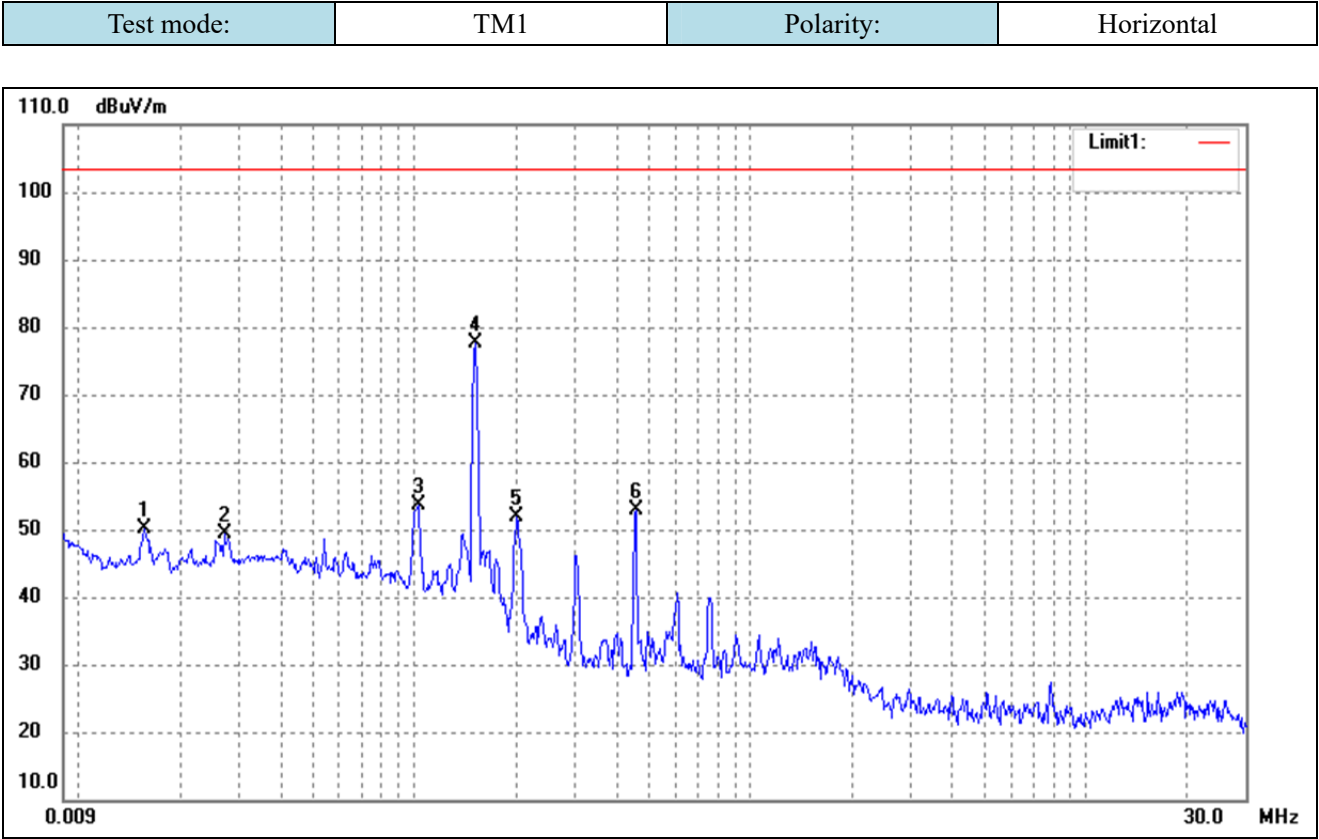
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 18.305 Limit}$$

4.4 Environmental Conditions

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

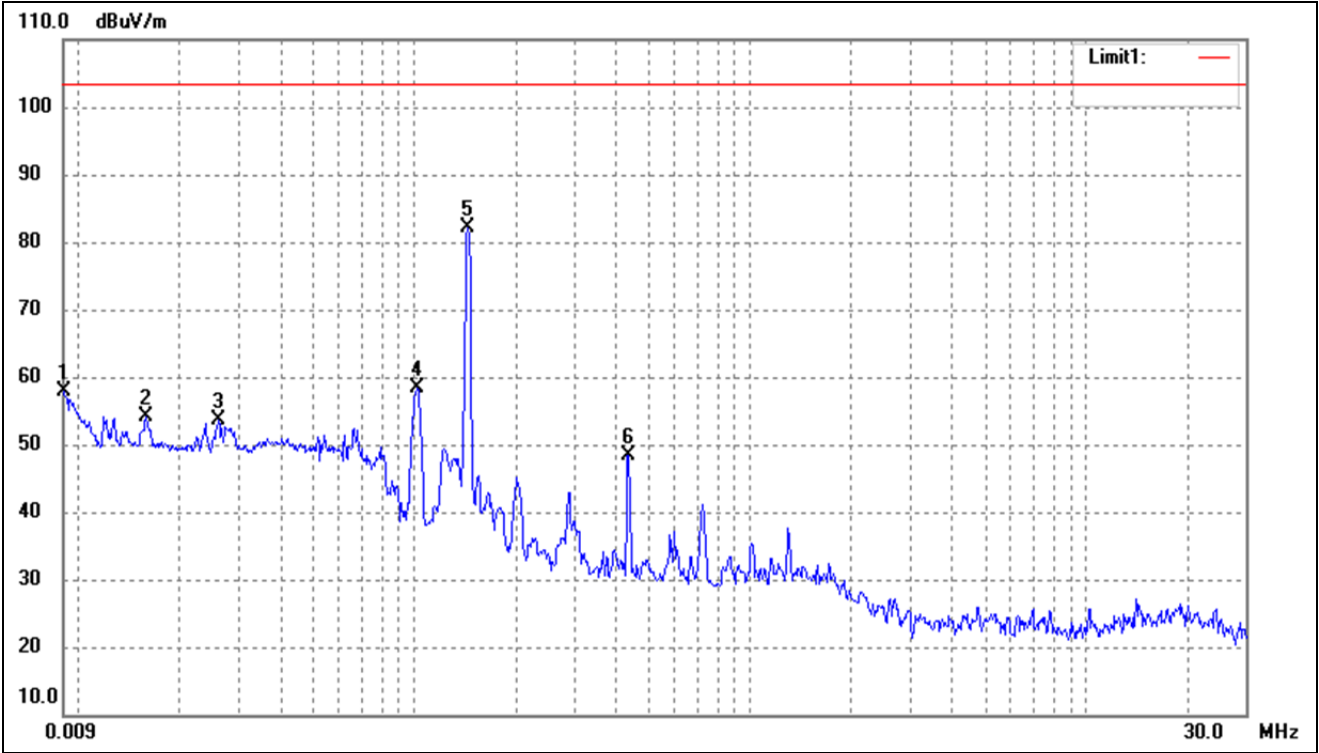
4.5 Summary of Test Results/Plots

Plot of Radiated Emissions Test Data (Below 30MHz)



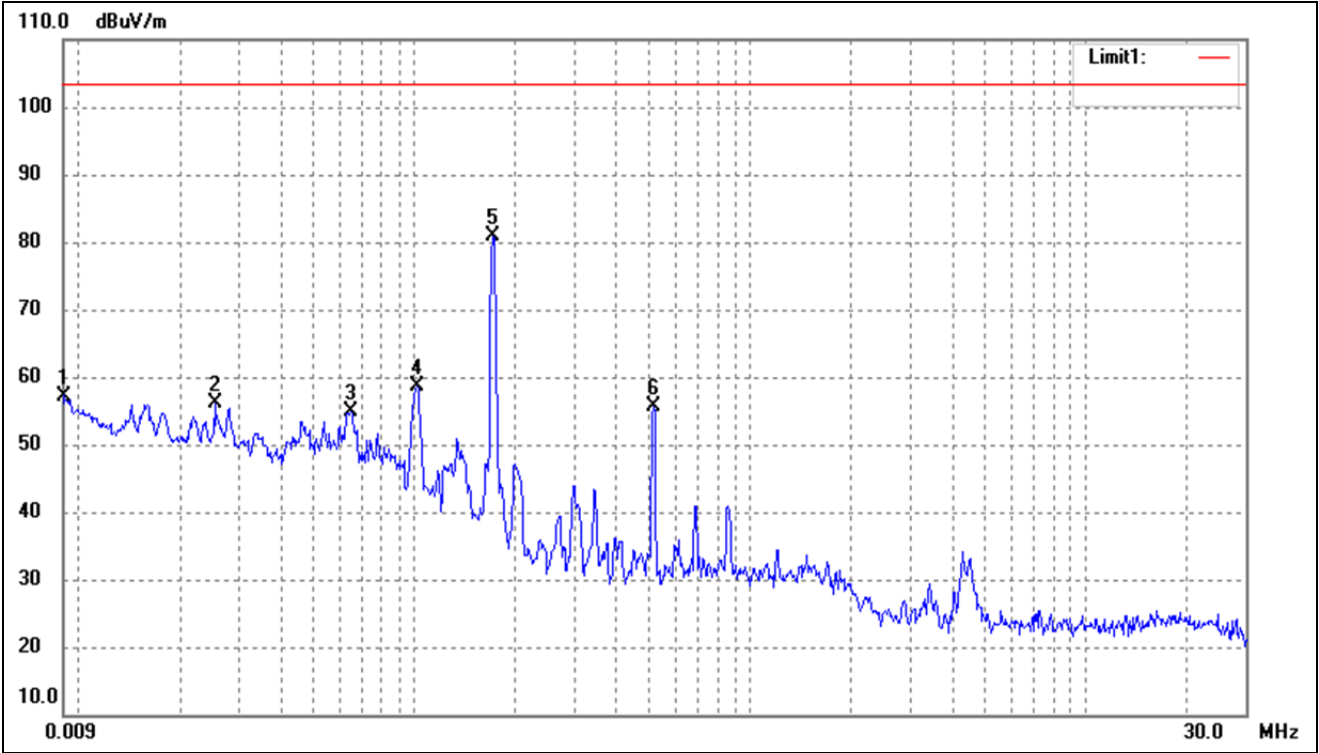
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	0.0156	55.70	-5.58	50.12	103.50	-53.38	-	-	peak
2	0.0271	54.58	-5.17	49.41	103.50	-54.09	-	-	peak
3	0.1026	58.21	-4.69	53.52	103.50	-49.98	-	-	peak
4	0.1514	81.92	-4.20	77.72	103.50	-25.78	-	-	peak
5	0.2011	56.40	-4.59	51.81	103.50	-51.69	-	-	peak
6	0.4564	57.37	-4.57	52.80	103.50	-50.70	-	-	peak

Test mode:	TM2	Polarity:	Horizontal
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	0.0090	62.70	-4.90	57.80	103.50	-45.70	-	-	peak
2	0.0159	59.59	-5.58	54.01	103.50	-49.49	-	-	peak
3	0.0260	58.77	-5.23	53.54	103.50	-49.96	-	-	peak
4	0.1018	63.05	-4.71	58.34	103.50	-45.16	-	-	peak
5	0.1442	86.26	-4.25	82.01	103.50	-21.49	-	-	peak
6	0.4347	53.03	-4.62	48.41	103.50	-55.09	-	-	peak

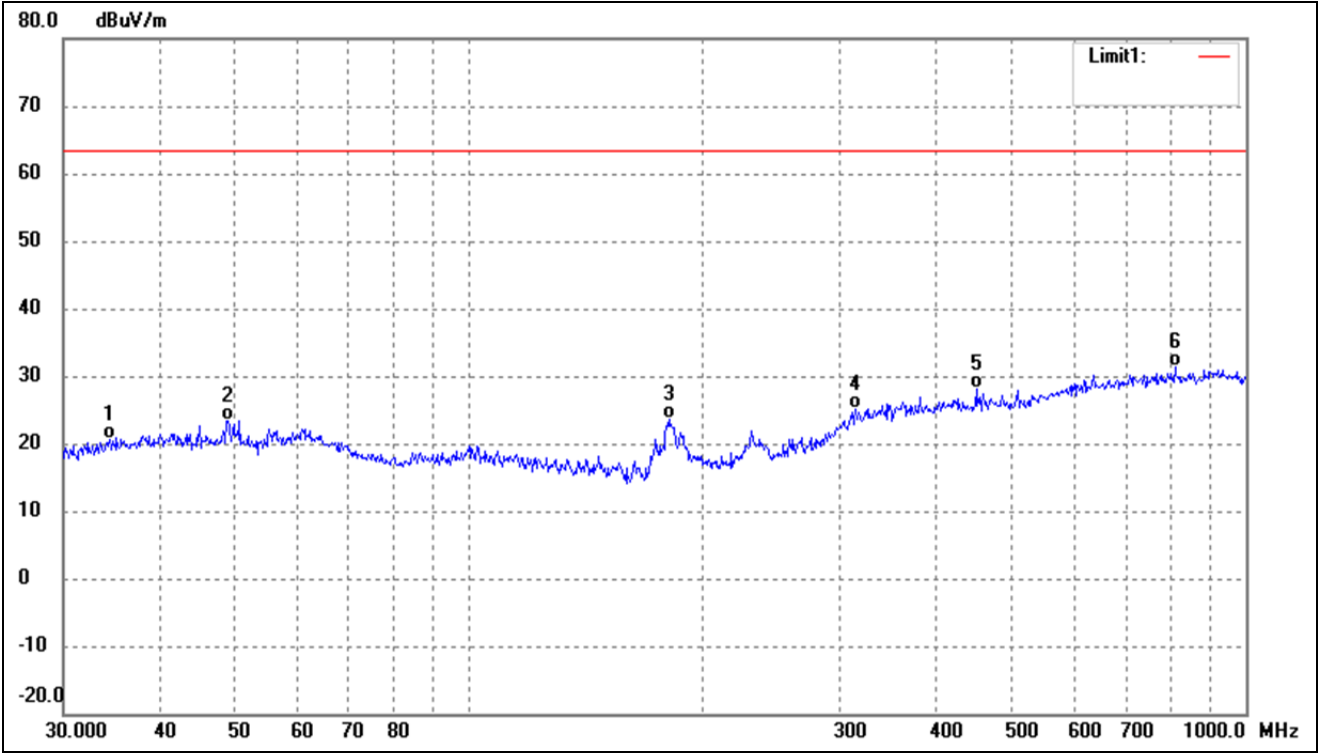
Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0090	62.15	-4.90	57.25	103.50	-46.25	-	-	peak
2	0.0254	61.43	-5.26	56.17	103.50	-47.33	-	-	peak
3	0.0646	59.24	-4.33	54.91	103.50	-48.59	-	-	peak
4	0.1018	63.41	-4.71	58.70	103.50	-44.80	-	-	peak
5	0.1710	85.23	-4.36	80.87	103.50	-22.63	-	-	peak
6	0.5154	60.00	-4.40	55.60	103.50	-47.90	-	-	peak

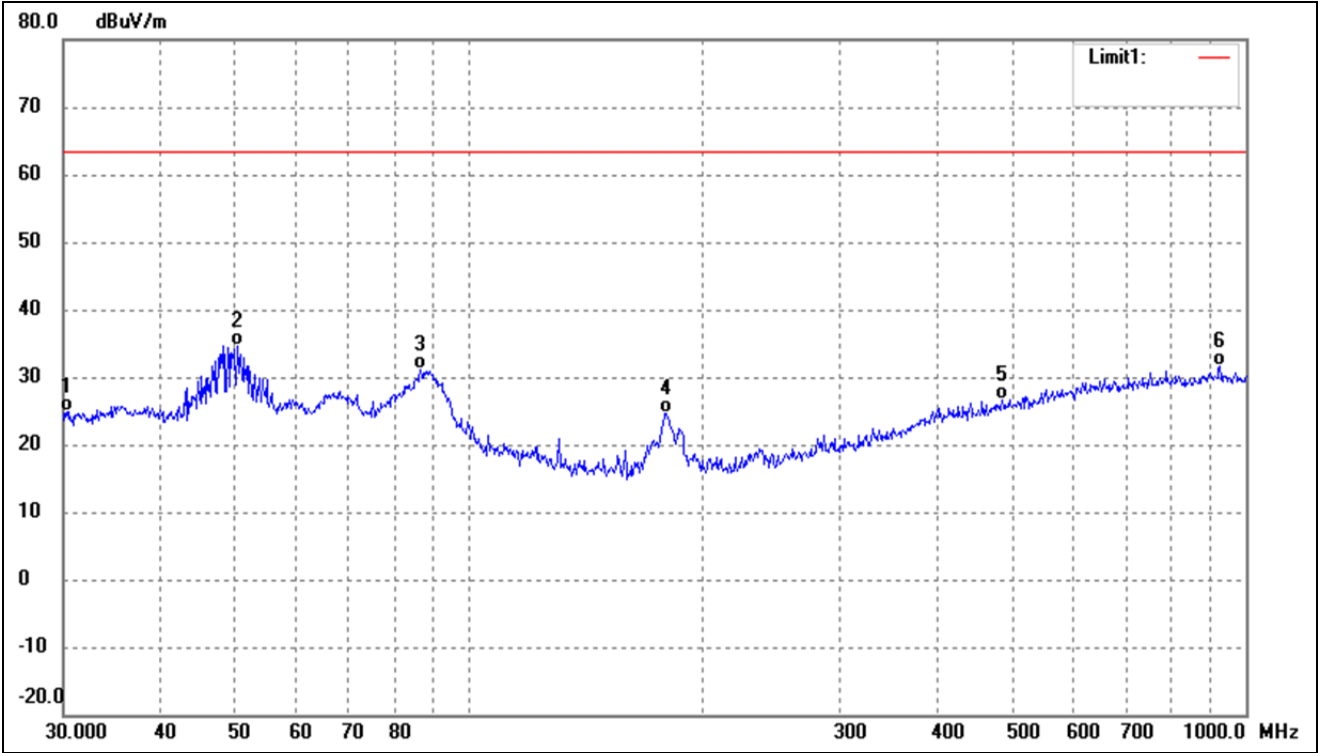
Plot of Radiated Emissions Test Data (Above 30MHz)

Test mode:	TM1	Polarity:	Horizontal
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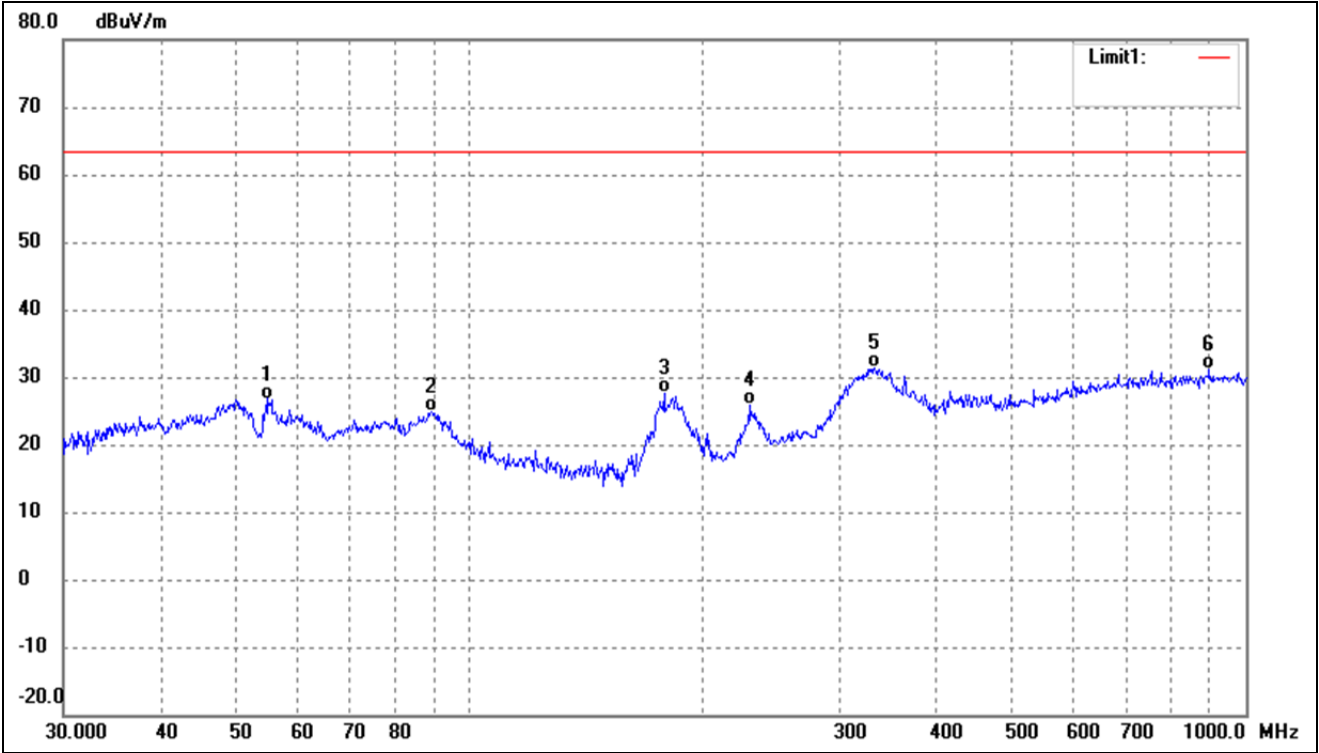
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	34.3964	28.97	-8.37	20.60	63.50	-42.90	-	-	QP
2	48.8429	30.37	-6.97	23.40	63.50	-40.10	-	-	QP
3	180.6488	34.74	-11.20	23.54	63.50	-39.96	-	-	QP
4	314.3765	31.61	-6.51	25.10	63.50	-38.40	-	-	QP
5	449.5558	30.62	-2.57	28.05	63.50	-35.45	-	-	QP
6	810.2654	29.27	2.16	31.43	63.50	-32.07	-	-	QP

Test mode:	TM1	Polarity:	Vertical
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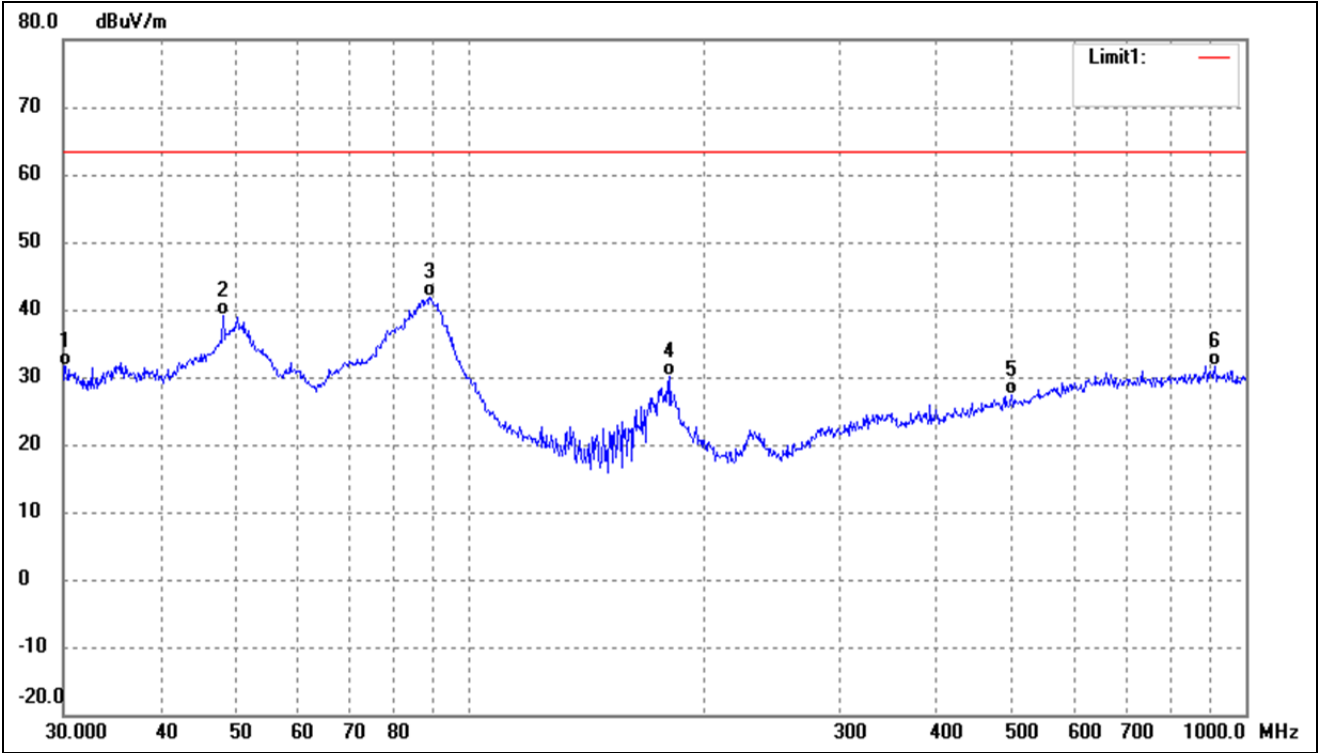
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	30.3172	34.22	-9.37	24.85	63.50	-38.65	-	-	QP
2	50.2325	41.67	-6.99	34.68	63.50	-28.82	-	-	QP
3	86.5028	41.77	-10.63	31.14	63.50	-32.36	-	-	QP
4	179.3864	35.96	-11.30	24.66	63.50	-38.84	-	-	QP
5	485.6093	28.28	-1.67	26.61	63.50	-36.89	-	-	QP
6	925.7563	28.92	2.66	31.58	63.50	-31.92	-	-	QP

Test mode:	TM2	Polarity:	Horizontal
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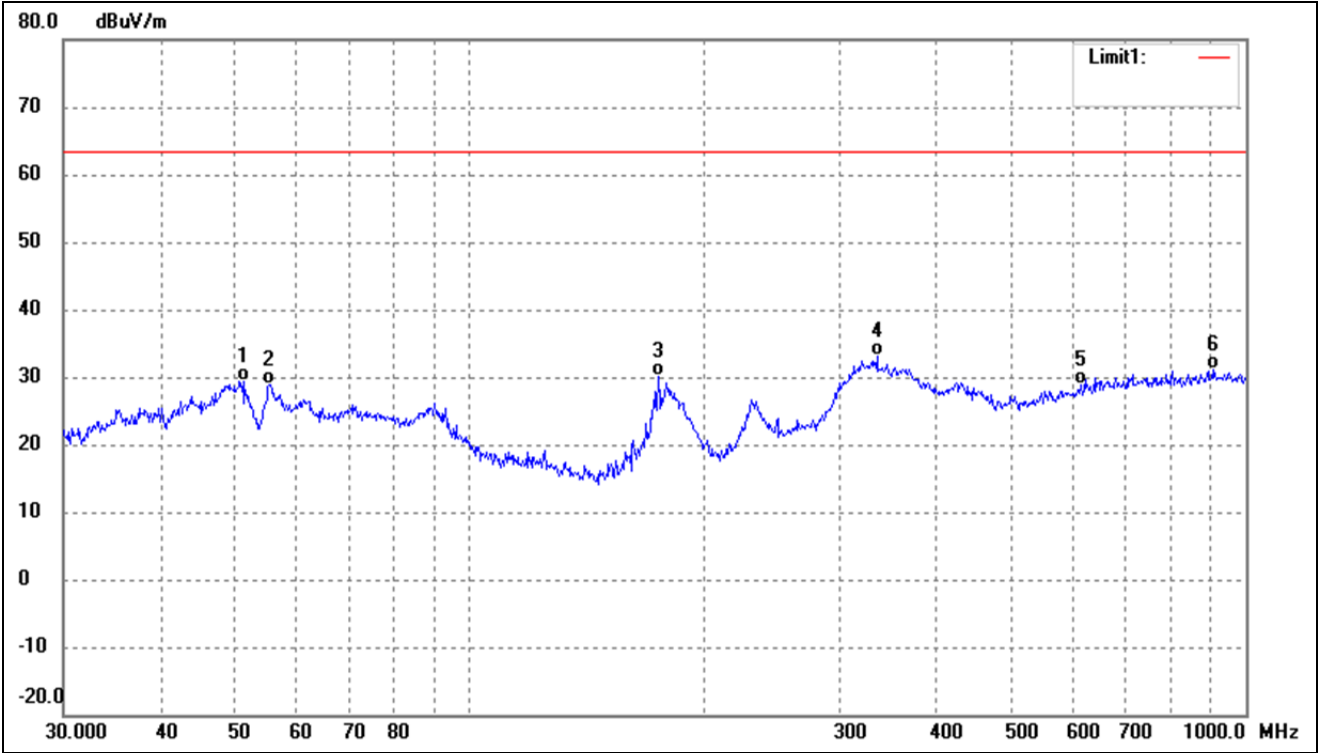
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	55.0274	34.44	-7.69	26.75	63.50	-36.75	-	-	QP
2	89.2764	35.50	-10.60	24.90	63.50	-38.60	-	-	QP
3	178.1327	39.11	-11.36	27.75	63.50	-35.75	-	-	QP
4	229.2931	34.80	-8.89	25.91	63.50	-37.59	-	-	QP
5	332.5187	37.38	-5.94	31.44	63.50	-32.06	-	-	QP
6	896.9965	28.47	2.73	31.20	63.50	-32.30	-	-	QP

Test mode:	TM2	Polarity:	Vertical
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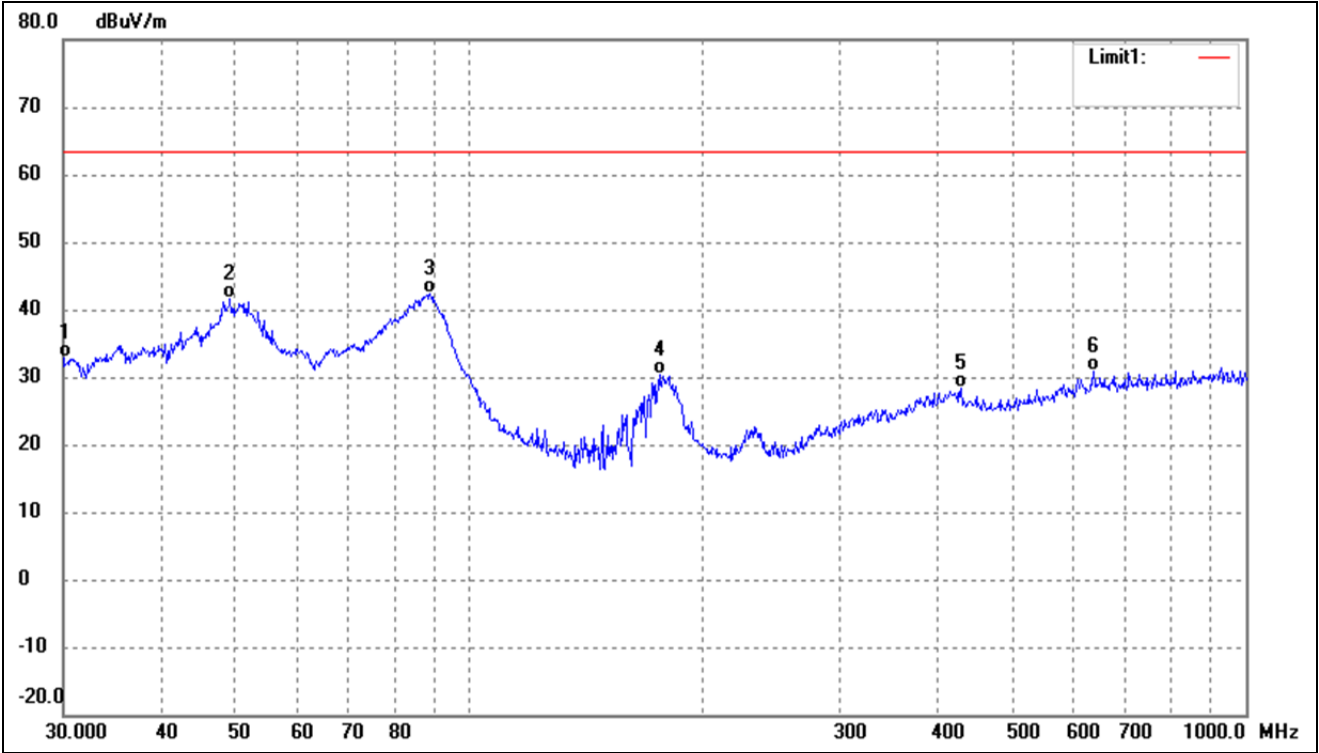
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	30.2111	41.11	-9.41	31.70	63.50	-31.80	-	-	QP
2	48.1626	46.02	-6.97	39.05	63.50	-24.45	-	-	QP
3	88.9639	52.49	-10.59	41.90	63.50	-21.60	-	-	QP
4	181.2834	41.14	-11.12	30.02	63.50	-33.48	-	-	QP
5	499.4247	28.62	-1.31	27.31	63.50	-36.19	-	-	QP
6	912.8620	28.87	2.70	31.57	63.50	-31.93	-	-	QP

Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	51.1209	36.42	-7.12	29.30	63.50	-34.20	-	-	QP
2	55.2207	36.71	-7.73	28.98	63.50	-34.52	-	-	QP
3	175.0368	41.75	-11.50	30.25	63.50	-33.25	-	-	QP
4	334.8589	39.12	-5.87	33.25	63.50	-30.25	-	-	QP
5	612.0642	28.32	0.50	28.82	63.50	-34.68	-	-	QP
6	906.4824	28.38	2.74	31.12	63.50	-32.38	-	-	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	30.0000	42.28	-9.45	32.83	63.50	-30.67	-	-	QP
2	49.1866	48.56	-6.97	41.59	63.50	-21.91	-	-	QP
3	88.9639	53.01	-10.59	42.42	63.50	-21.08	-	-	QP
4	176.2686	41.90	-11.44	30.46	63.50	-33.04	-	-	QP
5	429.5228	31.42	-3.10	28.32	63.50	-35.18	-	-	QP
6	636.1340	30.05	0.77	30.82	63.50	-32.68	-	-	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 *****