

# TEST REPORT

Reference No..... : WTX20X11088349W-1  
FCC ID ..... : GV3M01542  
Applicant ..... : ACCO Brands, Inc.  
Address..... : 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404, USA  
Product Name ..... : Desktop Caddy with Wireless Charging  
Test Model. .... : M01542  
Standards ..... : FCC Part 18  
Date of Receipt sample .... : Nov.20, 2020  
Date of Test..... : Nov.20, 2020 to Feb.03, 2021  
Date of Issue ..... : Feb.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:**

**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

Tel.: +86-755-33663308

Fax.: +86-755-33663309

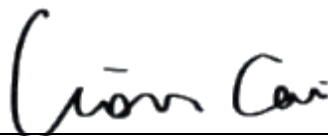
Tested by:

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	Feb.03, 2021	Original
/	/	/

## 1. GENERAL INFORMATION

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### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: ACCO Brands, Inc.  
 Address of applicant: 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404, USA

Manufacturer: ACCO Brands, Inc.  
 Address of manufacturer: 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404, USA

General Description of EUT	
Product Name:	Desktop Caddy with Wireless Charging
Trade Name:	Kensington
Model No.:	M01542
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
Power adapter	Model: ICP65-120-5000 Input: AC100-240V, 50/60Hz, 1.5A Output: DC12.0V, 5.0A
Antenna Type:	Coil Antenna
Rated Voltage:	Type-C Output: 5.0V 3.0A, 9.0V 2.25A USB-A Output: 5.0V 2.4A Wireless Output 1: 5.0V 1A, 9.0V 1.1A Wireless Output 2: 5.0V 1A, 9.0V 1.1A
Rated Current:	1A / 1.1A
Rated Power:	5W / 10W

## 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, 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	/	Input DC12V5A; Output 1: DC5V/1A; Output 2: DC5V/1A
TM2	Wireless Charging	/	Input DC12V5A; Output 1: DC9V/1.1A; Output 2: DC9V/1.1A

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
DC Cable	1.50	Unshielded	Without Ferrite

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Load 1#	Unknown	Unknown	Unknown
Load 2#	Unknown	Unknown	Unknown

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB-C Cable	0.8	Shielded	Without Ferrite
USB-A Cable	0.6	Shielded	Without Ferrite

## 1.6 Measurement Uncertainty

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

**1.7 Test Equipment List and Details**

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2020-04-28	2021-04-27
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2020-04-28	2021-04-27
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2020-04-28	2021-04-27
Amplifier	Agilent	8447F	3113A06717	2020-04-28	2021-04-27
Amplifier	C&D	PAP-1G18	2002	2020-04-28	2021-04-27
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2020-04-28	2021-04-27
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2020-04-28	2021-04-27
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2020-04-28	2021-04-27

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

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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 $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

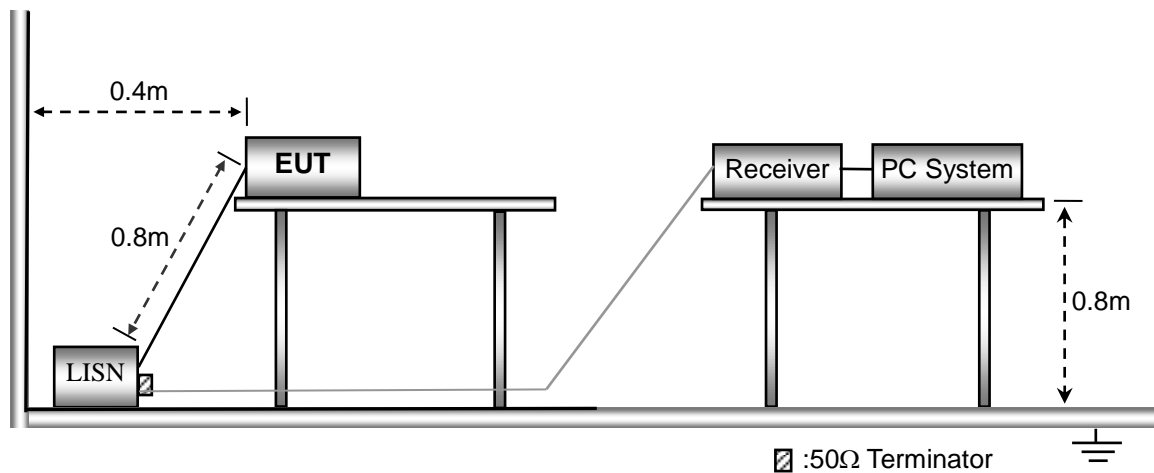
#### 3.2 Test Procedure

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:	22.5° C
Relative Humidity:	54%
ATM Pressure:	1016 mbar

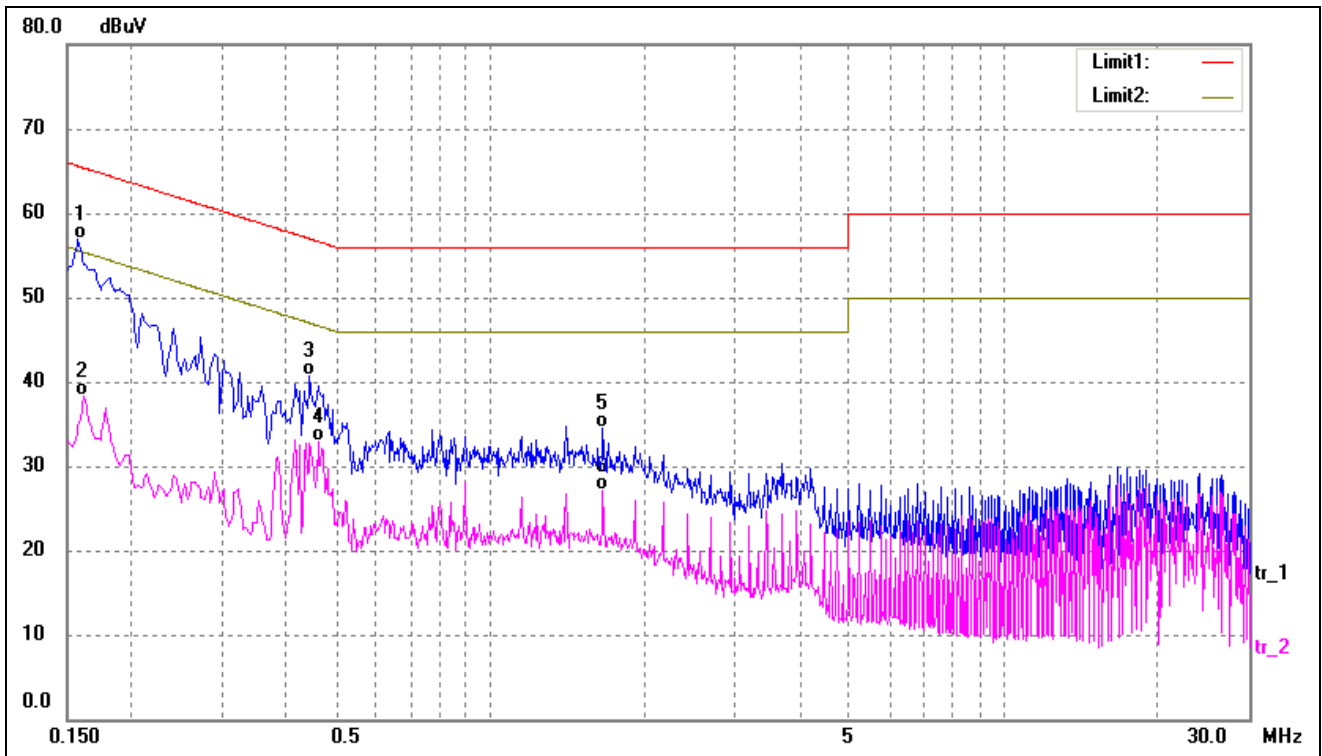
### 3.5 Test Receiver Setup

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

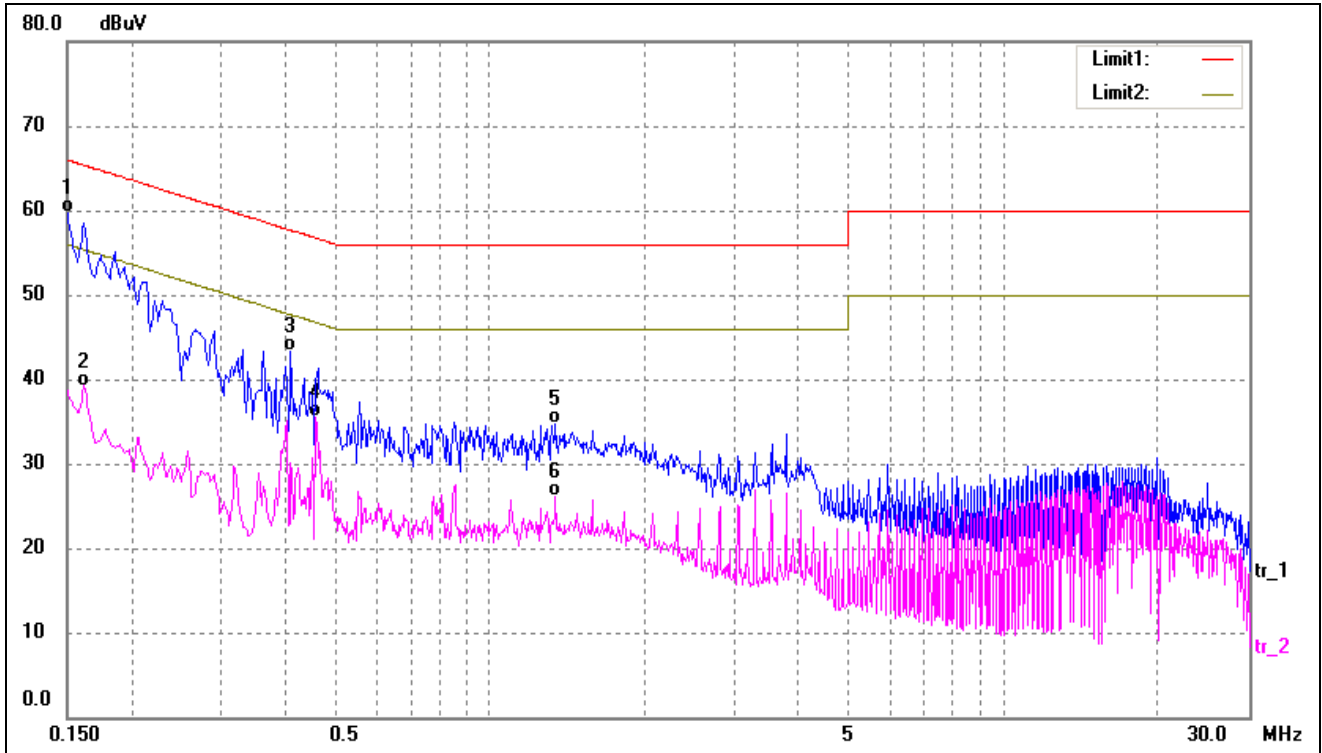
### 3.6 Summary of Test Results/Plots

Test mode:	TM1	Polarity:	Line
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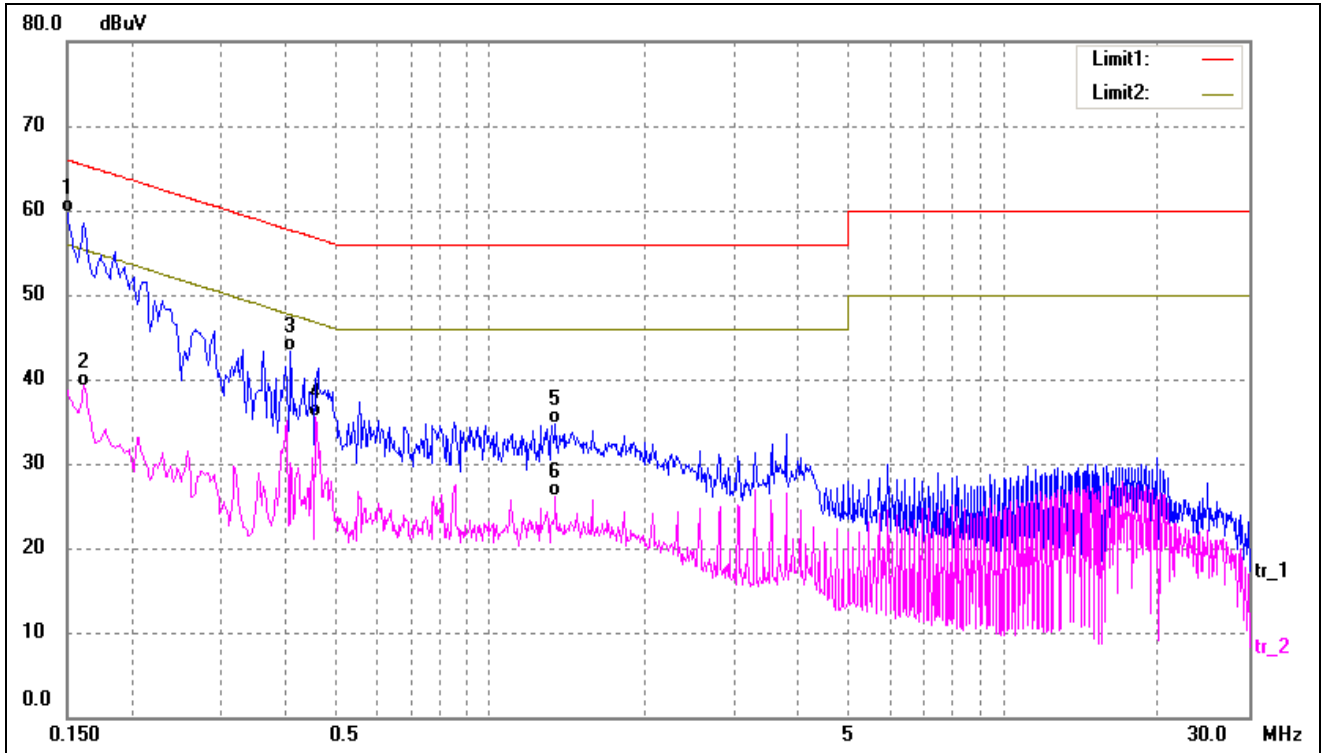
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	46.73	10.25	56.98	65.56	-8.58	QP
2	0.1620	28.02	10.26	38.28	55.36	-17.08	AVG
3	0.4460	30.54	10.22	40.76	56.95	-16.19	QP
4	0.4620	22.68	10.22	32.90	46.66	-13.76	AVG
5	1.6620	24.19	10.25	34.44	56.00	-21.56	QP
6	1.6620	16.89	10.25	27.14	46.00	-18.86	AVG

Test mode:	TM1	Polarity:	Neutral
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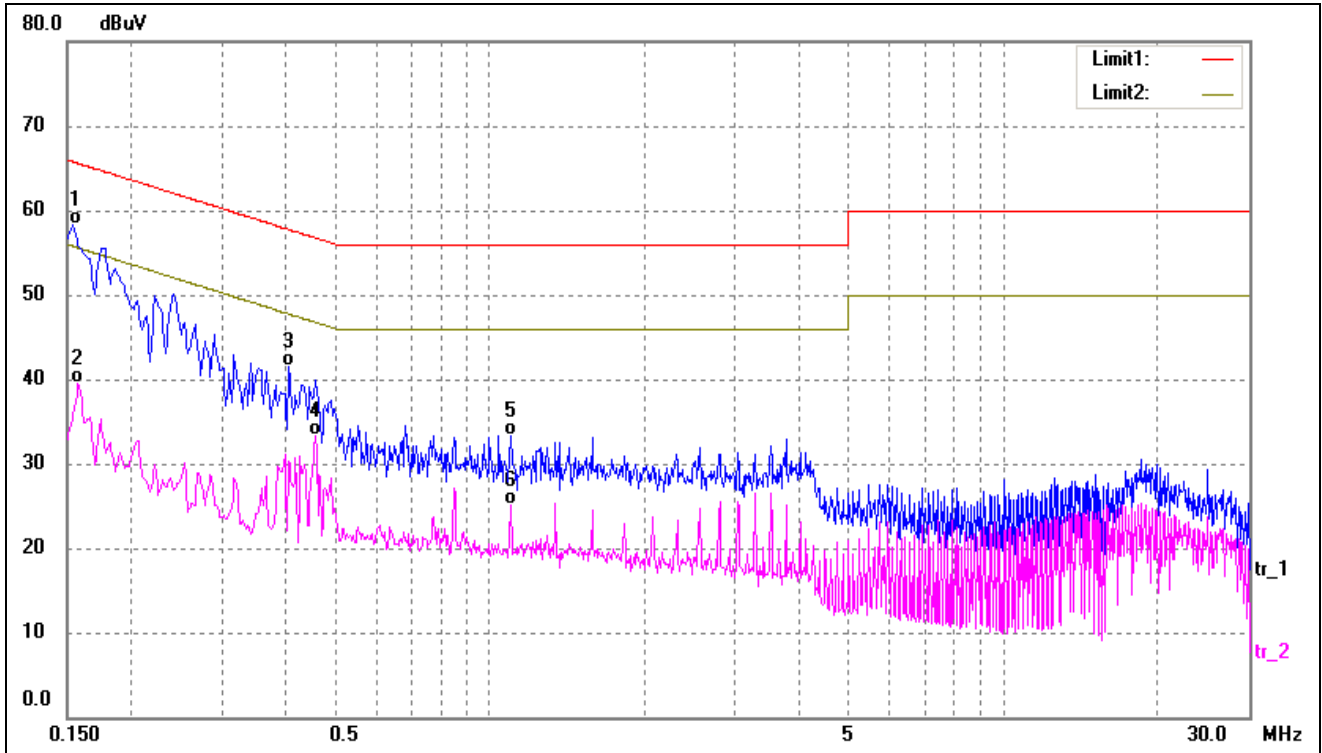
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	49.47	10.25	59.72	65.99	-6.27	QP
2	0.1620	28.94	10.26	39.20	55.36	-16.16	AVG
3	0.4100	33.13	10.23	43.36	57.65	-14.29	QP
4	0.4580	25.26	10.22	35.48	46.73	-11.25	AVG
5	1.3380	24.43	10.22	34.65	56.00	-21.35	QP
6	1.3380	15.91	10.22	26.13	46.00	-19.87	AVG

Test mode:	TM2	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	49.47	10.25	59.72	65.99	-6.27	QP
2	0.1620	28.94	10.26	39.20	55.36	-16.16	AVG
3	0.4100	33.13	10.23	43.36	57.65	-14.29	QP
4	0.4580	25.26	10.22	35.48	46.73	-11.25	AVG
5	1.3380	24.43	10.22	34.65	56.00	-21.35	QP
6	1.3380	15.91	10.22	26.13	46.00	-19.87	AVG

Test mode:	TM2	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	48.10	10.25	58.35	65.78	-7.43	QP
2	0.1580	29.31	10.25	39.56	55.56	-16.00	AVG
3	0.4060	31.20	10.23	41.43	57.73	-16.30	QP
4	0.4580	23.08	10.22	33.30	46.73	-13.43	AVG
5	1.0940	23.10	10.21	33.31	56.00	-22.69	QP
6	1.0940	14.93	10.21	25.14	46.00	-20.86	AVG

## 4. Radiated Emissions

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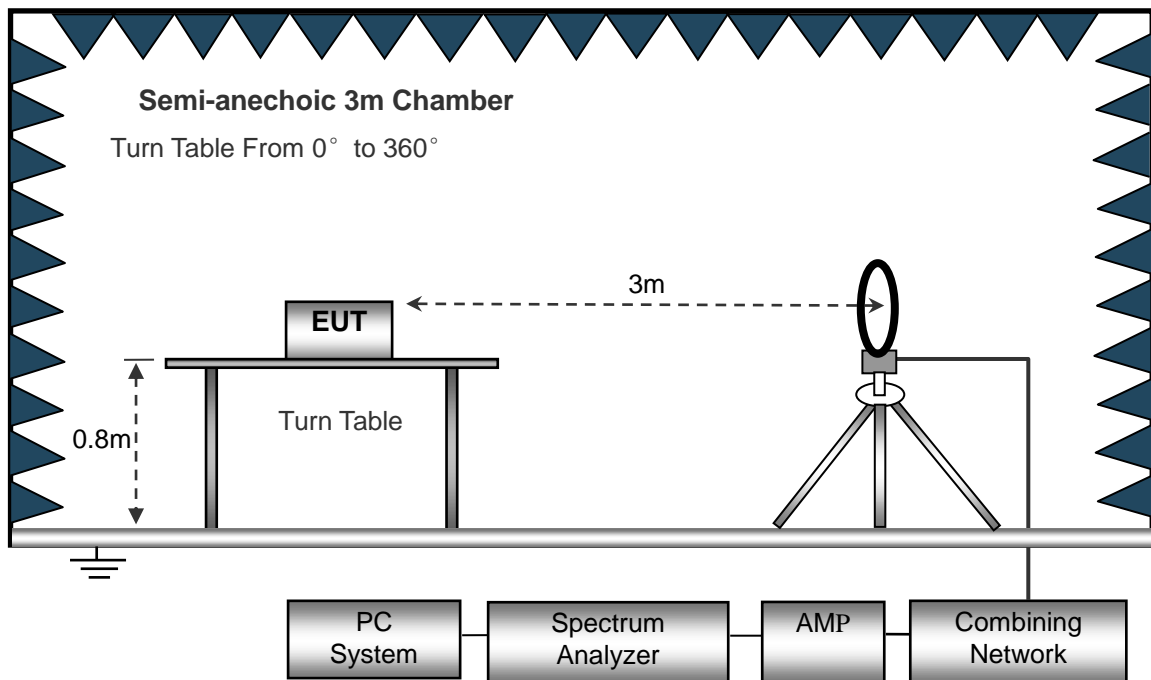
### 4.1 Test Procedure

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.

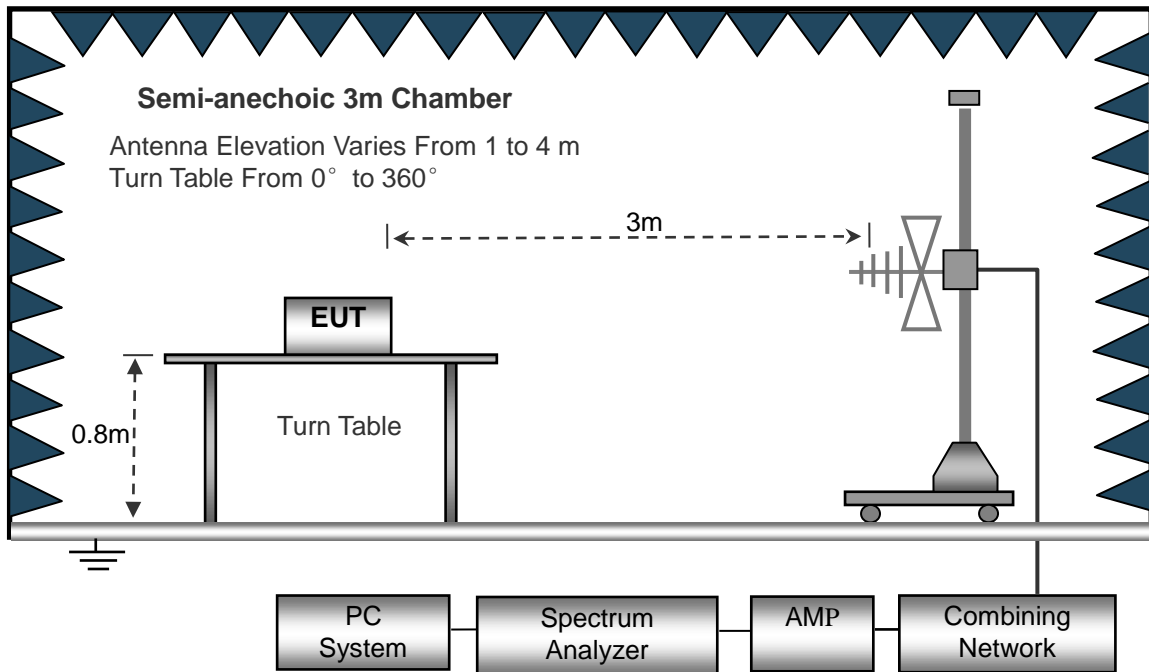
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

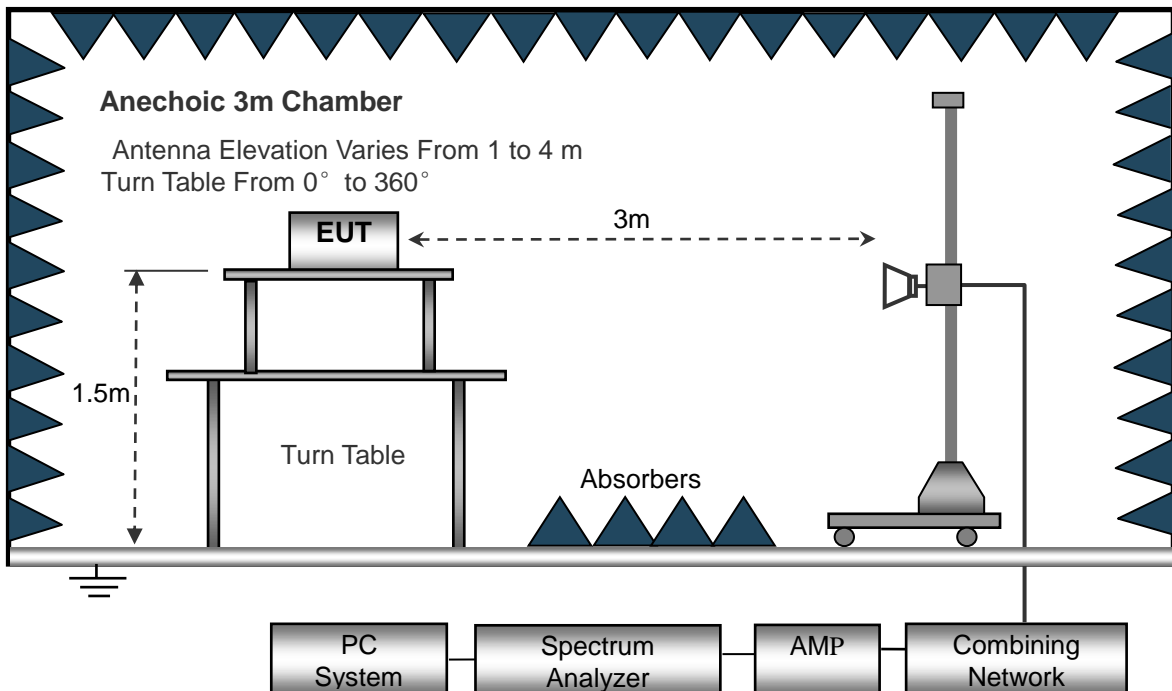
The test setup for emission measurement below 30MHz..



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 $\mu$ V means the emission is 6dB $\mu$ 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

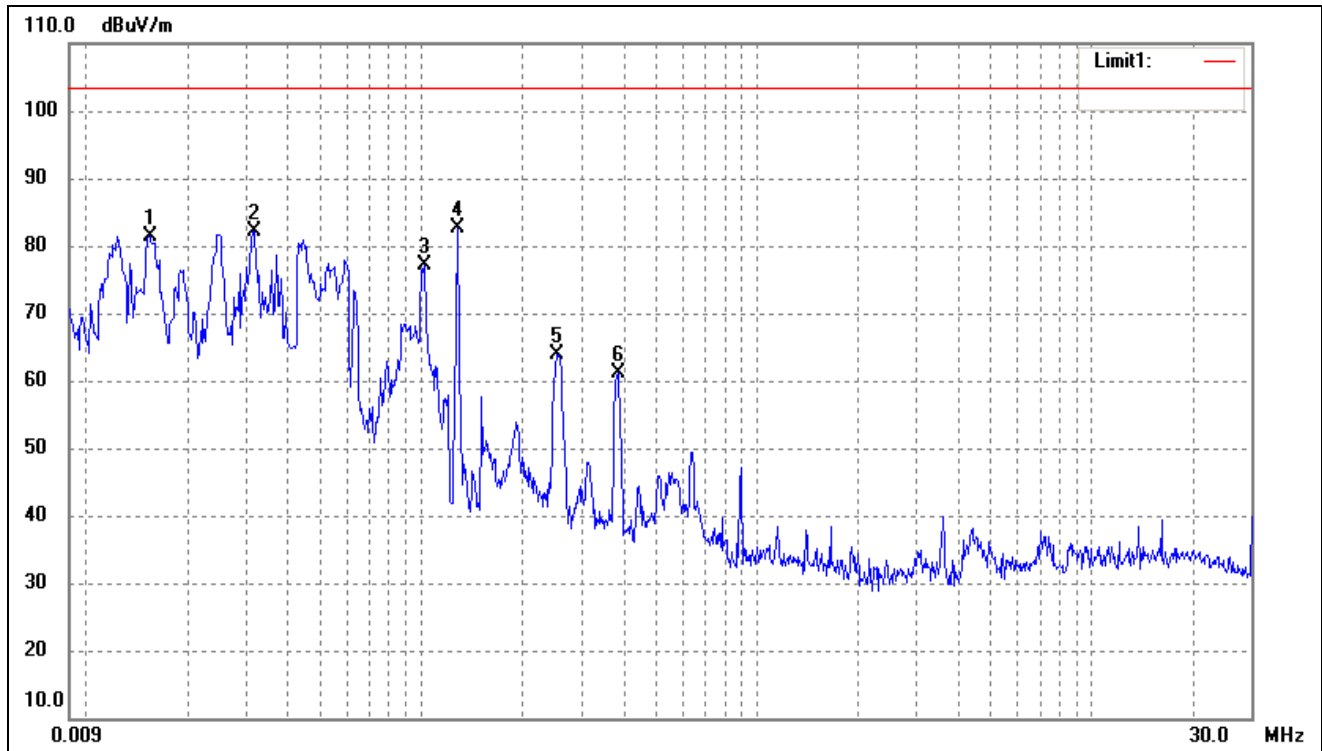
Temperature:	22.5 °C
Relative Humidity:	54 %
ATM Pressure:	1011 mbar

## 4.5 Summary of Test Results/Plots



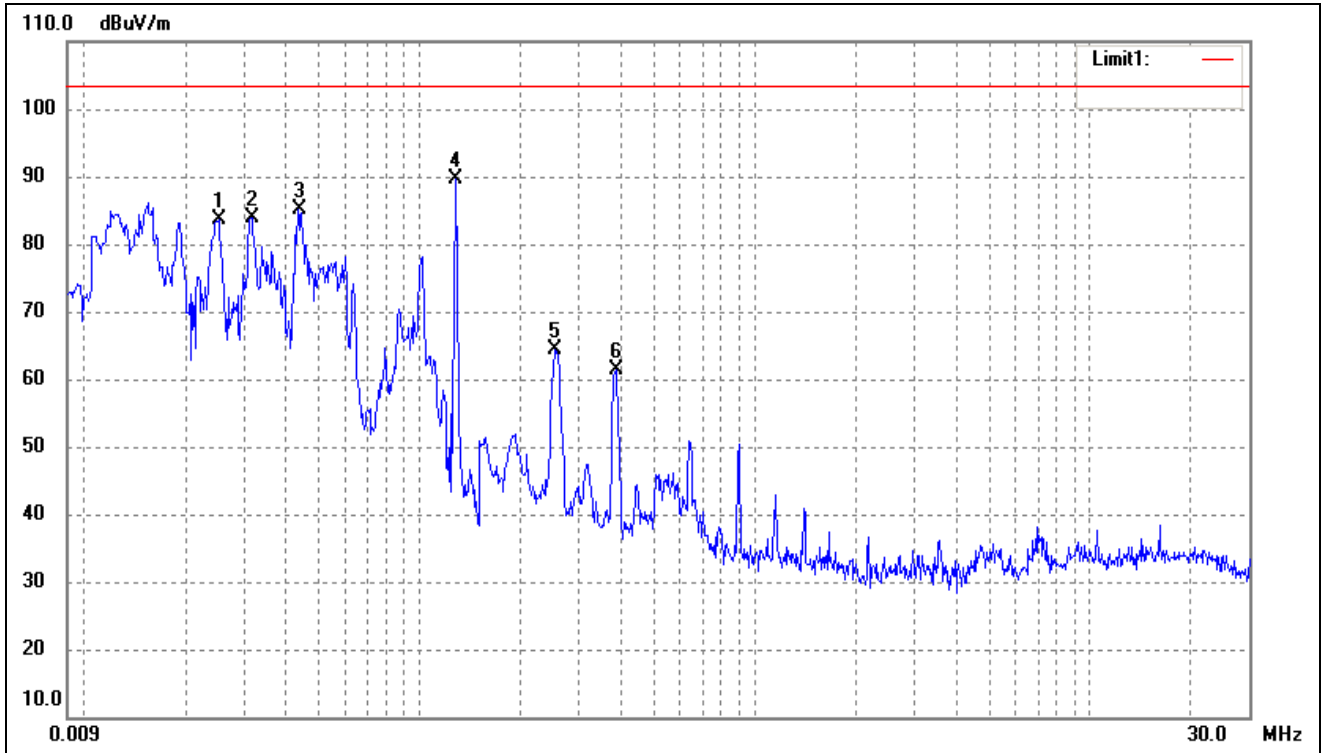
## Plot of Radiated Emissions Test Data (Below 30MHz)

Test mode:	TM1	Polarity:	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	0.0154	87.97	-6.60	81.37	103.50	-22.13	-	-	peak
2	0.0314	88.26	-6.02	82.24	103.50	-21.26	-	-	peak
3	0.1020	82.19	-5.07	77.12	103.50	-26.38	-	-	peak
4	0.1278	87.68	-5.13	82.55	103.50	-20.95	-	-	peak
5	0.2548	71.42	-7.42	64.00	103.50	-39.50	-	-	peak
6	0.3832	68.92	-7.83	61.09	103.50	-42.41	-	-	peak

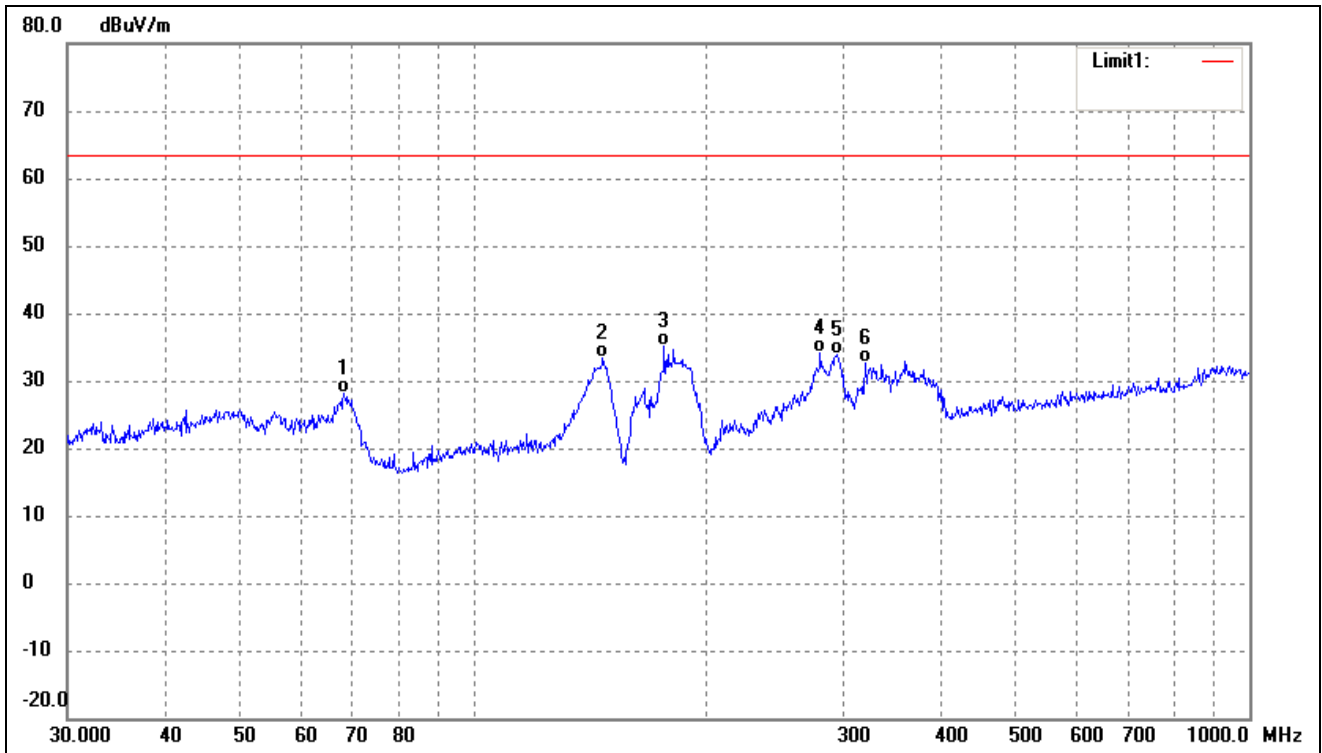
Test mode:	TM2	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	0.0251	89.99	-6.48	83.51	103.50	-19.99	-	-	peak
2	0.0314	89.85	-6.02	83.83	103.50	-19.67	-	-	peak
3	0.0435	90.40	-5.18	85.22	103.50	-18.28	-	-	peak
4	0.1281	94.77	-5.14	89.63	103.50	-13.87	-	-	peak
5	0.2548	71.75	-7.42	64.33	103.50	-39.17	-	-	peak
6	0.3832	69.13	-7.83	61.30	103.50	-42.20	-	-	peak

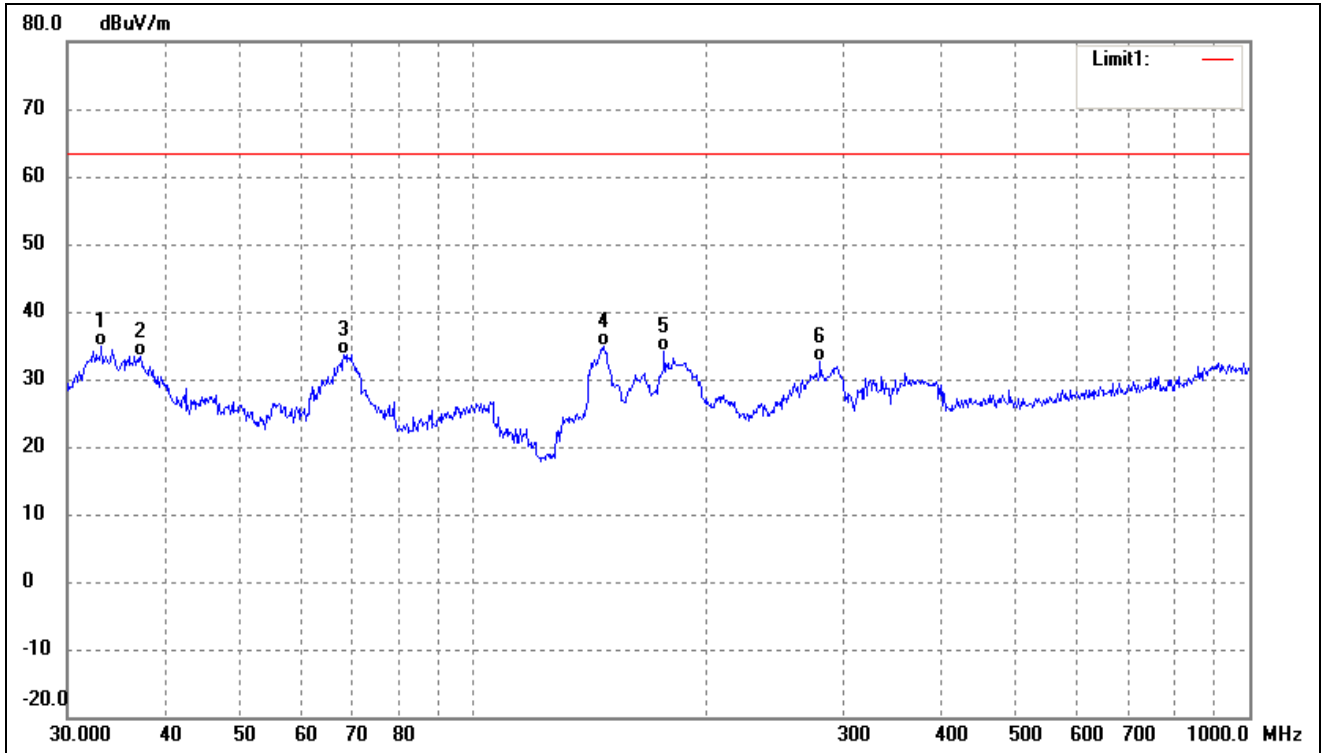
**Plot of Radiated Emissions Test Data ( Above 30MHz)**

Test mode:	TM1	Polarity:	Horizontal
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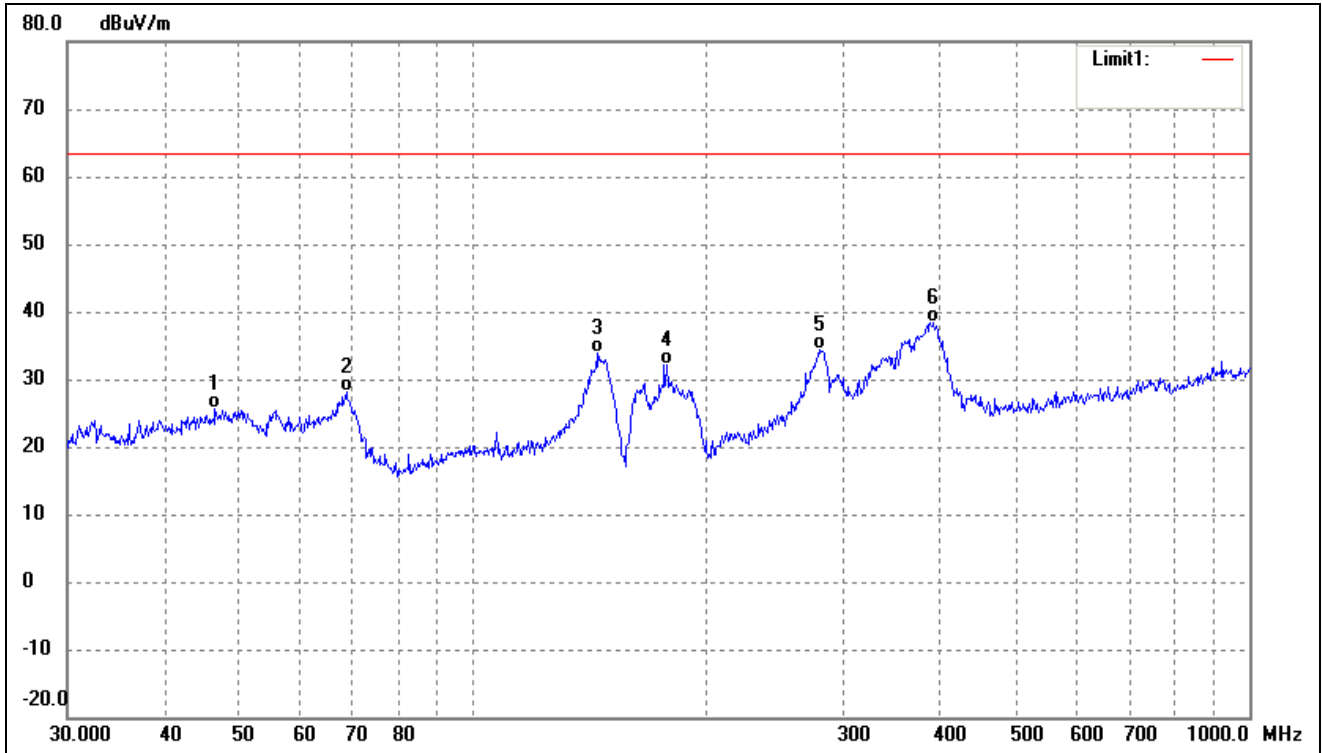
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	68.1514	42.50	-14.37	28.13	63.50	-35.37	-	-	QP
2	146.8877	49.18	-15.70	33.48	63.50	-30.02	-	-	QP
3	176.2686	49.67	-14.57	35.10	63.50	-28.40	-	-	QP
4	280.0238	44.58	-10.39	34.19	63.50	-29.31	-	-	QP
5	294.1137	43.26	-9.36	33.90	63.50	-29.60	-	-	QP
6	319.9370	41.50	-8.95	32.55	63.50	-30.95	-	-	QP

Test mode:	TM1	Polarity:	Vertical
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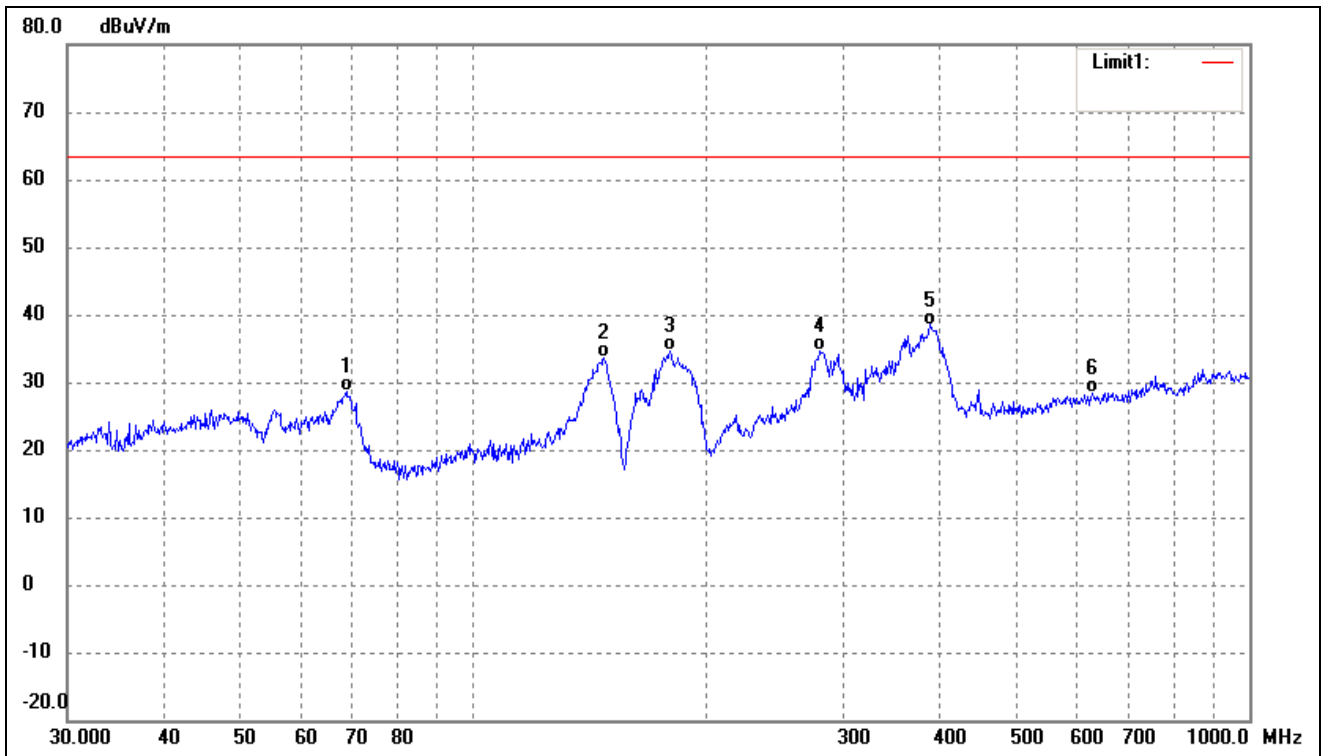
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	33.2111	48.84	-13.97	34.87	63.50	-28.63	-	-	QP
2	37.2854	46.27	-13.01	33.26	63.50	-30.24	-	-	QP
3	68.1513	48.00	-14.37	33.63	63.50	-29.87	-	-	QP
4	147.4036	50.44	-15.64	34.80	63.50	-28.70	-	-	QP
5	176.2685	48.67	-14.57	34.10	63.50	-29.40	-	-	QP
6	280.0237	43.08	-10.39	32.69	63.50	-30.81	-	-	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	46.5030	37.24	-11.72	25.52	63.50	-37.98	-	-	QP
2	68.6310	42.65	-14.44	28.21	63.50	-35.29	-	-	QP
3	144.3348	49.65	-15.89	33.76	63.50	-29.74	-	-	QP
4	177.5092	46.65	-14.49	32.16	63.50	-31.34	-	-	QP
5	279.0436	44.91	-10.46	34.45	63.50	-29.05	-	-	QP
6	392.0951	45.04	-6.69	38.35	63.50	-25.15	-	-	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	68.6310	43.12	-14.44	28.68	63.50	-34.82	-	-	QP
2	147.4036	49.26	-15.64	33.62	63.50	-29.88	-	-	QP
3	179.3863	49.07	-14.35	34.72	63.50	-28.78	-	-	QP
4	280.0237	45.07	-10.39	34.68	63.50	-28.82	-	-	QP
5	387.9920	45.31	-6.81	38.50	63.50	-25.00	-	-	QP
6	627.2738	30.53	-2.17	28.36	63.50	-35.14	-	-	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**

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**Please refer to “ANNEX”**

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