



EMC TEST REPORT

Product Name: Turntable

Trade mark: /

Model No.: MT-211, B0CRRYTCL1, B0CFVZCVWH

ASIN: B0CRRYTCL1, B0CFVZCVWH

FCC ID: 2BHK8-MT211

Report No.: CTB240709002EV2

Applicant: Shenzhen Demingxuan Electronics Co., LTD

Room 1801-1A, Building 3, Manjinghua Tech Innovation Workshop, No. 6

Address: Songjiang Road, Shapu Community, Songgang, Baoan District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen Demingxuan Electronics Co., LTD

Room 1801-1A, Building 3, Manjinghua Tech Innovation Workshop, No. 6

Address: Songjiang Road, Shapu Community, Songgang, Baoan District, Shenzhen, Guangdong, China

Prepared by: Shenzhen CTB Testing Technology Co., Ltd.

Address: 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

Date of Receipt: Jul. 03, 2024

Date of Test(s): Jul. 04, 2024 ~ Jul. 07, 2024

Date of Issue: Sep. 04, 2025

Test Standard(s): 47 CFR Part 15 Subchapter B, ANSI C63.4: 2014

Test Result: Pass

In the configuration tested, the EUT complied with the standards specified above.

Compiled by:

Reviewed by:

Approved by:

Blake Cai

Bin Mei

Rita Xiao

Blake Cai

Bin Mei

Rita Xiao

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "★" indicates the testing items were fulfilled by subcontracted lab. "✖" indicates the items are not in CNAS accreditation scope.

Table of Contents

1. Description of version	3
2. Test summary	4
3. Measurement uncertainty	5
4. General information	6
4.1. Description of EUT	6
4.2. Description of accessory device	6
4.3. Test conditions	6
4.4. Block diagram of EUT configuration	6
4.5. Operating condition of EUT	6
5. List of Test and Measurement Instruments	7
6. Conducted Emission	10
6.1. Limit	10
6.2. Test setup	10
6.3. EMI test receiver setup	10
6.4. Test procedure	10
6.5. Test results	11
7. Radiated emissions	13
7.1. Limit	13
7.2. Test setup	13
7.3. EMI test receiver setup and spectrum analyzer setup	14
7.4. Test procedure	14
7.5. Corrected Amplitude & Margin Calculation	14
7.6. Test results	15
8. Photographs of test setup	19
9. Photographs of EUT	22

1. Description of version

Report No.	Issue Date	Description	Approved
CTB240709002E	Jul. 10, 2024	Original	Invalid
CTB240709002EV1	Aug. 28, 2025	Revision	Invalid
CTB240709002EV2	Sep. 04, 2025	Revision	Valid
Note: This report adds the FCC ID number on the basis of the original report CTB240709002EV1.			

2. Test summary

Test procedures according to the technical standards:

Standard	Test Item	Test Result
§15.107	Conducted Emission	PASS
§15.109	Radiated Emission	PASS

3. Measurement uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %

Test Item	Frequency	Expanded Uncertainty (U_{Lab})
No.1 Conducted Emission	150 kHz to 30 MHz	± 3.1 dB
No.2 Conducted Emission	150 kHz to 30 MHz	± 3.2 dB
Radiated Emission	30 MHz to 1000 MHz	± 4.1 dB
Radiated Emission	1000 MHz to 6000 MHz	± 4.8 dB

4. General information

4.1. Description of EUT

Product name	Turntable
Trade mark	/
Model No.	MT-211
Serial Model No.	B0CRRYTCL1, B0CFVZCVWH
Model Difference	All model's the function, software and electric circuit are the same. Only with a product model named different. Test Sample Model: MT-211.
Rated Power	12W
Rated Voltage& current	For Adapter Input: 100-240V~, 50/60Hz, 0.5A Output: 12V 1A For Turntable Input: 12V 1A
Configuration	☒ Table-top ☐ Floor-standing
The highest frequency of the internal sources of the EUT	☐ below 1.705 MHz, the measurement shall only be made up to 30 MHz. ☐ between 1.705 MHz and 108 MHz, the measurement shall only be made up to 1 GHz. ☐ between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. ☐ between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. ☒ above 1 GHz, the measurement shall be made up to 5th harmonic of the highest frequency or 40 GHz, whichever is lower.
Adapter Information	MODEL: OBL-1201000U INPUT: AC 100-240V 50/60Hz 0.5A Max OUTPUT: 12V---1A 12W

Note: The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

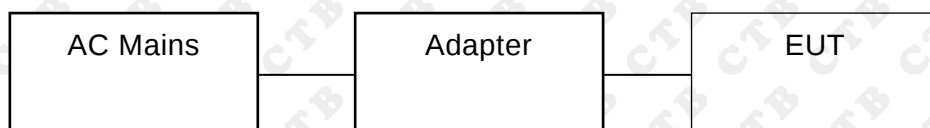
4.2. Description of accessory device

No.	Device Type	Brand	Model	Specification	Note
1	/	/	/	/	/

4.3. Test conditions

Temperature: 15-25°C
 Relative Humidity: 30-60 %
 Atmospheric pressure: 800hPa-1060hPa

4.4. Block diagram of EUT configuration



4.5. Operating condition of EUT

Operating condition	Mode 1	Working	Test Voltage	AC 120V/60Hz
Note: This test covers all possible operating modes of the device, only the worst data are list in report. The worst data are shows (*) is the nearest standard limit which were recorded in this report.				

5. List of Test and Measurement Instruments

No.1 Continuous disturbance						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	843 Shield Room	C/ R/ T	843	/	/	2027/6/21
2	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	/	2025/6/30
3	Pulse limiter	ROHDE&SCHWARZ	ESH3-Z2	357881052	/	2025/6/28
4	EMI TEST RECEIVER	R&S	ESCI	100428	V4.42.SP3	2025/6/30
5	Coaxial cable	Agilent	UCE500-SMNM-1.5M	/	/	2025/6/30
6	ISN	Schwarzbeck	NTFM8158	183	/	2025/6/30
7	Voltage Probe	Schwarzbeck	TK 9420	01189	/	2024/11/16
8	EZ-EMC	Frad	Ver/ EMC-con3A1/1	/	/	/
9	Current Probe	FCC	F-52B	199453	/	2025/5/27

No.2 Continuous disturbance						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	ISN	Schwarzbeck	NTFM8158	183	/	2025/6/30
2	Voltage sensor	Schwarzbeck	TK 9420	01189	/	2024/11/16
3	Current Probe	FCC	F-52B	199453	/	2025/5/27
4	Anechoic chamber	C/ R/ T	966	/	/	2026/11/14
5	Control Room	C/ R/ T	533	199453	/	2026/11/14
6	Pulse limiter	Schwarzbeck	VTSD 9561 F	01322	/	2024/11/27
7	EMI TEST RECEIVER	R&S	ESCI7	/	/	2024/11/27
8	LISN	Schwarzbeck	NNLK 8129	00584	/	2025/5/23
9	LISN	Schwarzbeck	PVDC 8301	00144	/	2025/5/23
10	EMI test software	Farad	EZ-EMC	/	Ver. FARAD-3A1+	/

Radiated emission(No.1 Chamber)						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2027/6/21
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2025/7/06
3	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/29
4	Amplifier	Agilent	8449B	3008A01838	/	2025/6/30
5	Amplifier	HP	8447E	2945A02747	/	2025/6/28
6	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/29
7	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/6/28
8	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/6/28
9	Coaxial cable	ETS	RFC-SNS-100-N MS-80	/	/	2025/6/28
10	Coaxial cable	ETS	RFC-SN-100-NM S-20	/	/	2025/6/28
11	Coaxial cable	ETS	RFC-SNS-100-S MS-20	/	/	2025/6/28
12	Coaxial cable	ETS	RFC-NNS-100-N MS-300	/	/	2025/6/28
13	EMI test software	Frad	EZ-EMC	Ver/ FA-03A2 RE	/	/

Radiated emission(No.2 Chamber)						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2026/11/14
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2026/7/07
3	Broadband Antenna	Schwarzbeck	VULB 9168	1471	/	2025/7/06
4	Amplifier	Agilent	8449B	3008A01838	/	2025/6/30
5	Preamplifier	Schwarzbeck	BBV 9743 B	00500	/	2025/5/23
6	EMI TEST RECEIVER	R&S	ESCI7	100861	/	2024/11/27
7	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/6/28
8	EMI test software	Farad	EZ-EMC	/	Ver. FARAD-3A1+	/
9	Coaxial cable	Rosenberg	8m	/	/	2024/11/27
10	Coaxial cable	Times	2m	/	/	2024/11/27
11	Coaxial cable	Times	2m	/	/	2024/11/27
12	Coaxial cable	Times	1m	/	/	2024/11/27
13	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/29

6. Conducted Emission

6.1. Limit

Except for Class A devices:

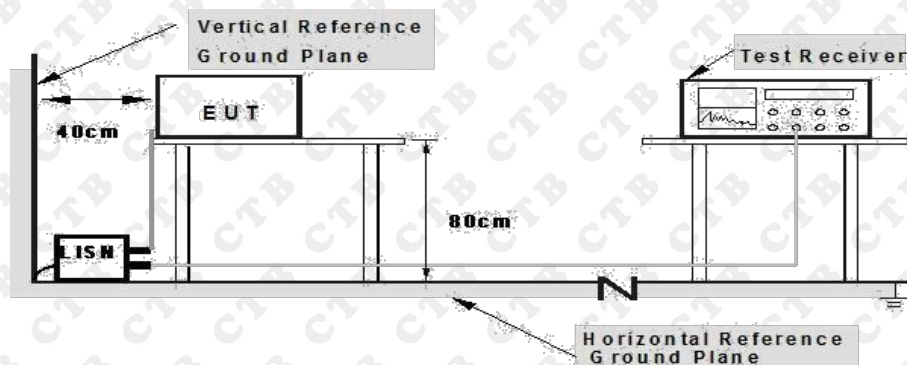
Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

For Class A devices:

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

6.2. Test setup



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

The setup of EUT is according with ANSI C63.4 measurement procedure. Specification used with FCC Part 15 limits.

6.3. EMI test receiver setup

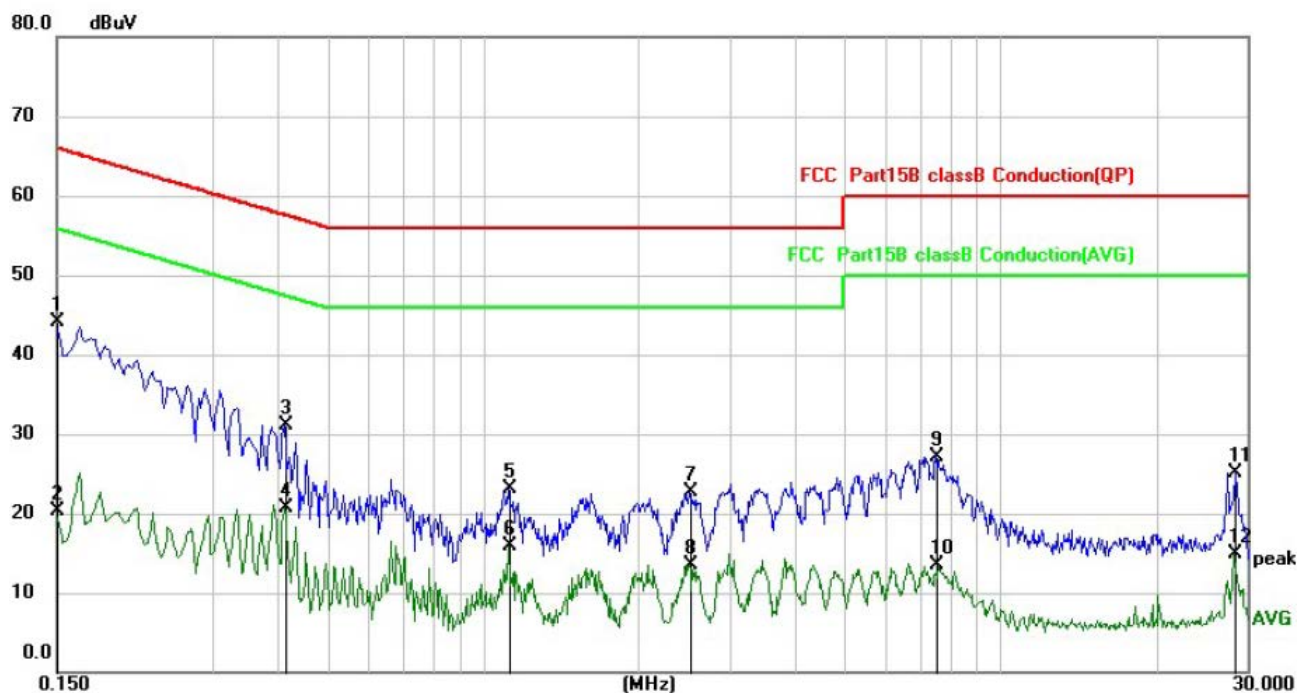
Frequency Range	9kHz-30MHz
Resolution Bandwidth	200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)

6.4. Test procedure

1. Measurement was performed in shielded room, and instruments used were followed clause 4 of ANSI C63.4.
2. Detailed test procedure was following clause 7 of ANSI C63.4.
3. Frequency range 150kHz – 30MHz was checked and EMI receiver measurement bandwidth was set to 9 kHz.

6.5. Test results

Temperature:	23°C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

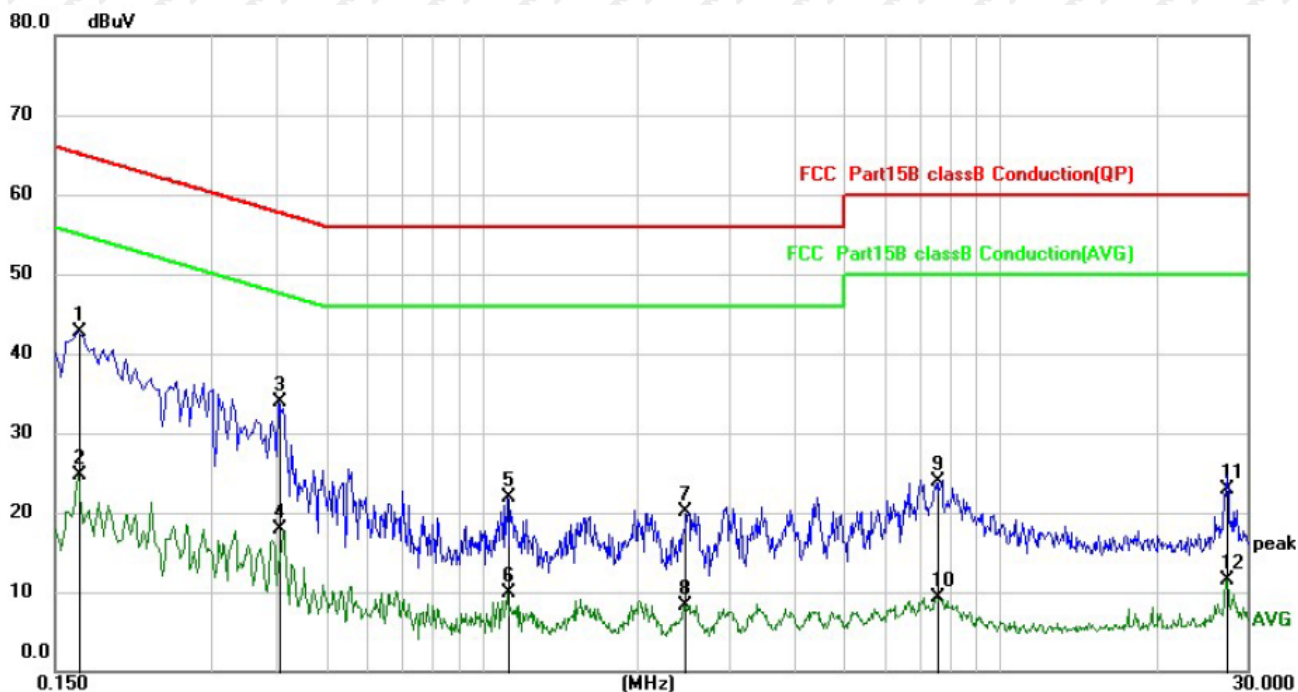


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1	*	0.1500	34.17	9.95	44.12	66.00	-21.88	QP
2		0.1500	10.30	9.95	20.25	56.00	-35.75	AVG
3		0.4140	21.05	9.98	31.03	57.57	-26.54	QP
4		0.4140	10.74	9.98	20.72	47.57	-26.85	AVG
5		1.1180	13.06	10.02	23.08	56.00	-32.92	QP
6		1.1180	5.91	10.02	15.93	46.00	-30.07	AVG
7		2.5059	12.55	10.14	22.69	56.00	-33.31	QP
8		2.5059	3.41	10.14	13.55	46.00	-32.45	AVG
9		7.4900	16.67	10.53	27.20	60.00	-32.80	QP
10		7.4900	3.04	10.53	13.57	50.00	-36.43	AVG
11		28.4180	13.90	11.30	25.20	60.00	-34.80	QP
12		28.4180	3.68	11.30	14.98	50.00	-35.02	AVG

Note: Result=Reading + Factor

Over Limit=Result - Limit

Temperature:	23°C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.1660	32.71	9.95	42.66	65.16	-22.50	QP
2		0.1660	14.69	9.95	24.64	55.16	-30.52	AVG
3		0.4060	23.84	9.98	33.82	57.73	-23.91	QP
4		0.4060	7.98	9.98	17.96	47.73	-29.77	AVG
5		1.1180	11.87	10.02	21.89	56.00	-34.11	QP
6		1.1180	-0.09	10.02	9.93	46.00	-36.07	AVG
7		2.4660	9.91	10.13	20.04	56.00	-35.96	QP
8		2.4660	-1.81	10.13	8.32	46.00	-37.68	AVG
9		7.5340	13.47	10.53	24.00	60.00	-36.00	QP
10		7.5340	-1.18	10.53	9.35	50.00	-40.65	AVG
11		27.4060	11.59	11.22	22.81	60.00	-37.19	QP
12		27.4060	0.32	11.22	11.54	50.00	-38.46	AVG

Note: Result=Reading + Factor

Over Limit=Result – Limit

7. Radiated emissions

7.1. Limit

Except for Class A devices (at 3m):

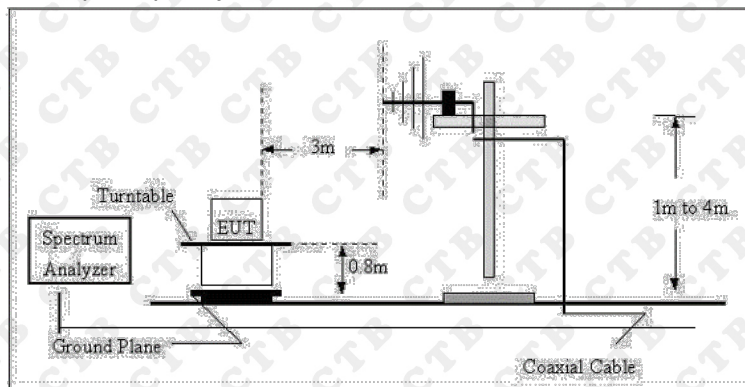
Frequency of emission (MHz)	Field strength (microvolts/meter)	
	(microvolts/meter)	(dB μ V/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

For Class A devices (at 10m):

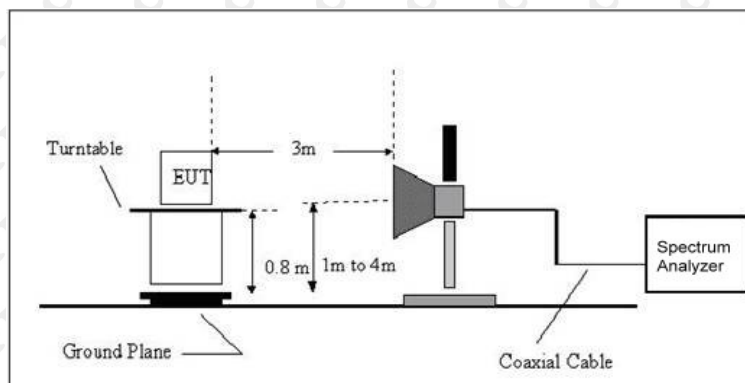
Frequency of emission (MHz)	Field strength (microvolts/meter)	
	(microvolts/meter)	(dB μ V/m)
30-88	90	39
88-216	150	43.5
216-960	210	46.4
Above 960	300	49.5

7.2. Test setup

Radiated Emission Test Set-Up Frequency Below 1 GHz



Radiated Emission Test Set-Up Frequency Above 1GHz



The radiated tests were performed in 3 meter Charmber test site, using the setup accordance with the ANSI C63.4:2014.

7.3. EMI test receiver setup and spectrum analyzer setup

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz-1000MHz	100kHz	300kHz	120kHz	QP
Above 1GHz	1MHz	3MHz	/	PK
	1MHz	10Hz	/	AVG

7.4. Test procedure

1. The measurement was performed in a semi-anechoic chamber, and instruments used were followed clause 4 of ANSI C63.4
2. Detailed test procedure was following clause 8 of ANSI C63.4.

7.5. Corrected Amplitude & Margin Calculation

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

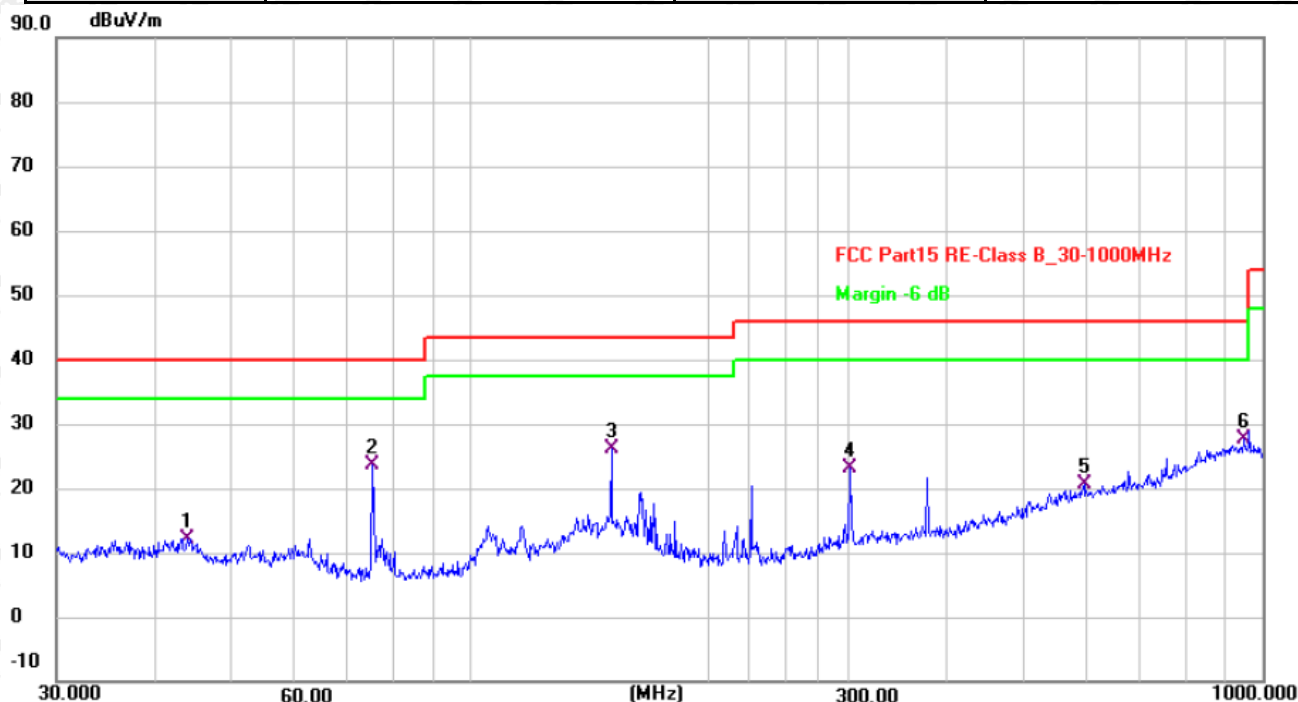
2. The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

7.6. Test results

Up to 1GHz

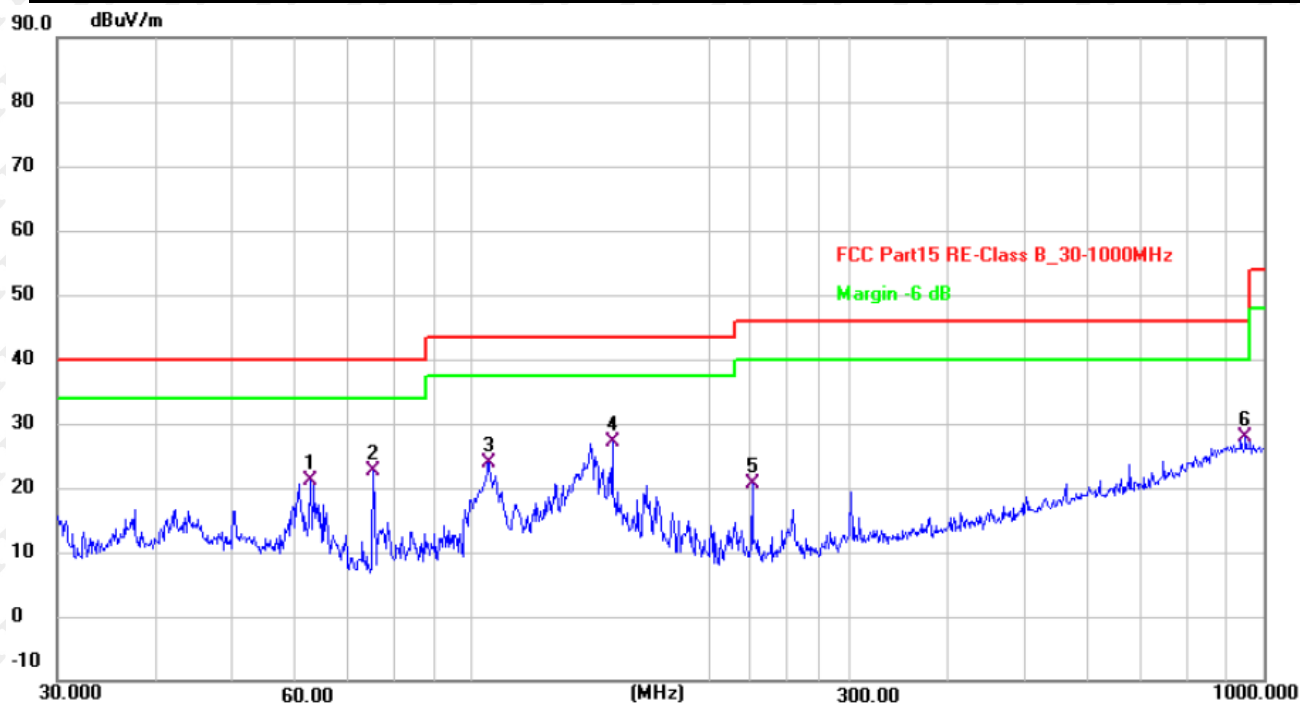
Temperature:	23℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.8120	26.50	-14.25	12.25	40.00	-27.75	QP
2 *	75.1822	41.92	-18.40	23.52	40.00	-16.48	QP
3	150.5377	38.58	-12.55	26.03	43.50	-17.47	QP
4	301.4223	35.99	-12.98	23.01	46.00	-22.99	QP
5	595.1327	26.13	-5.49	20.64	46.00	-25.36	QP
6	948.7610	26.50	1.05	27.55	46.00	-18.45	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

Temperature:	23°C	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

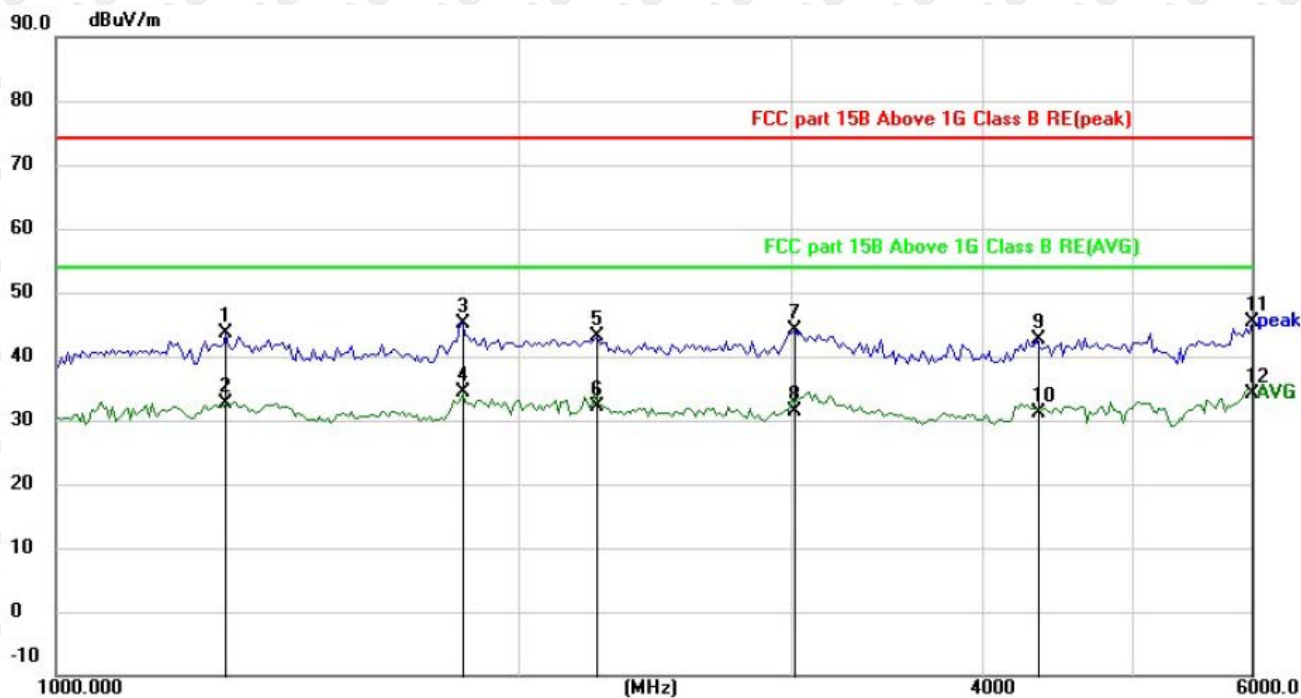


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	62.6506	37.25	-16.03	21.22	40.00	-18.78	QP
2	75.1822	41.09	-18.40	22.69	40.00	-17.31	QP
3	105.2717	40.95	-17.02	23.93	43.50	-19.57	QP
4 *	150.5377	39.61	-12.55	27.06	43.50	-16.44	QP
5	226.0994	36.69	-15.97	20.72	46.00	-25.28	QP
6	948.7610	26.80	1.05	27.85	46.00	-18.15	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

Above 1GHz

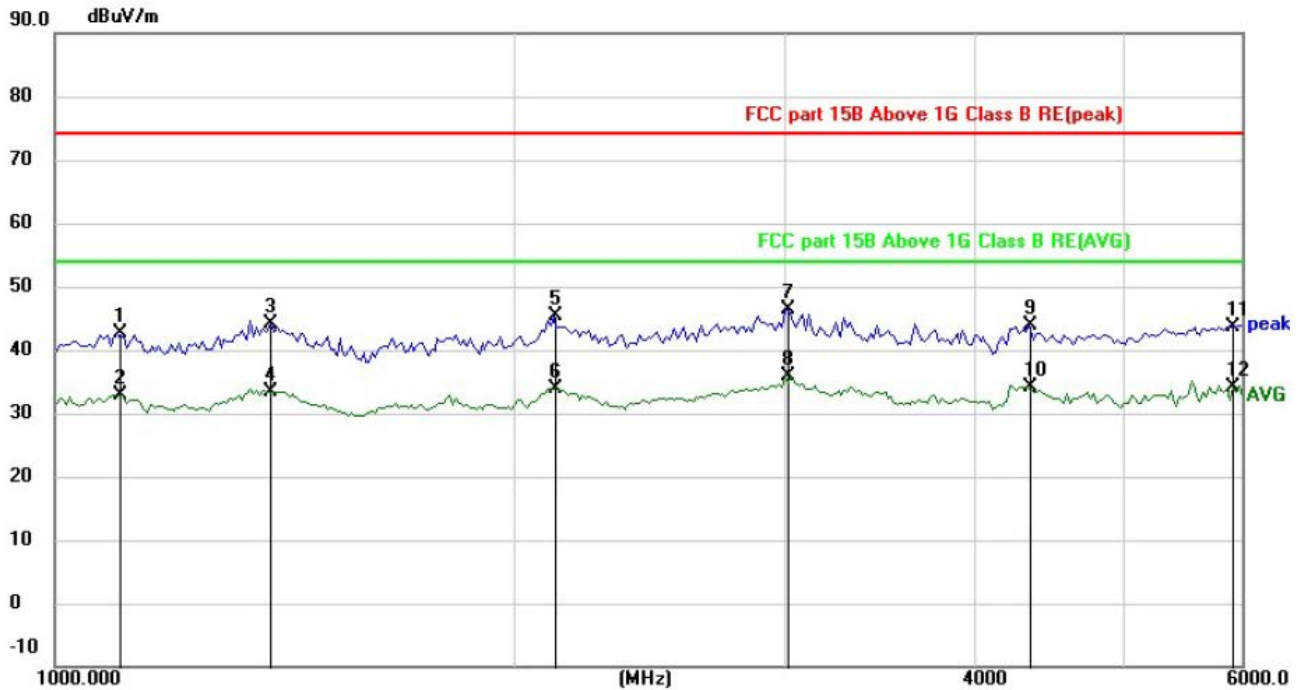
Temperature:	23°C	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		1290.882	44.54	-0.82	43.72	74.00	-30.28	QP
2		1290.882	33.41	-0.82	32.59	54.00	-21.41	AVG
3		1838.956	44.61	0.64	45.25	74.00	-28.75	QP
4	*	1838.956	33.77	0.64	34.41	54.00	-19.59	AVG
5		2249.642	41.23	1.99	43.22	74.00	-30.78	QP
6		2249.642	30.04	1.99	32.03	54.00	-21.97	AVG
7		3023.489	39.43	4.62	44.05	74.00	-29.95	QP
8		3023.489	26.83	4.62	31.45	54.00	-22.55	AVG
9		4345.943	37.23	5.52	42.75	74.00	-31.25	QP
10		4345.943	25.63	5.52	31.15	54.00	-22.85	AVG
11		6000.000	33.21	12.24	45.45	74.00	-28.55	QP
12		6000.000	21.93	12.24	34.17	54.00	-19.83	AVG

Note: Result=Reading+Factor
Over Limit=Result-Limit

Temperature:	23℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		1098.634	44.43	-1.70	42.73	74.00	-31.27	QP
2		1098.634	34.52	-1.70	32.82	54.00	-21.18	AVG
3		1386.796	44.65	-0.60	44.05	74.00	-29.95	QP
4		1386.796	34.02	-0.60	33.42	54.00	-20.58	AVG
5		2122.382	43.95	1.55	45.50	74.00	-28.50	QP
6		2122.382	32.37	1.55	33.92	54.00	-20.08	AVG
7		3023.489	41.79	4.62	46.41	74.00	-27.59	QP
8	*	3023.489	31.32	4.62	35.94	54.00	-18.06	AVG
9		4345.943	38.26	5.52	43.78	74.00	-30.22	QP
10		4345.943	28.63	5.52	34.15	54.00	-19.85	AVG
11		5893.452	32.36	11.25	43.61	74.00	-30.39	QP
12		5893.452	22.80	11.25	34.05	54.00	-19.95	AVG

Note: Result=Reading+Factor

Over Limit=Result-Limit

8. Photographs of test setup

RE Up to 1GHz



RE Above 1GHz



CE





9. Photographs of EUT

EUT photo 1



EUT photo 2



EUT photo 3



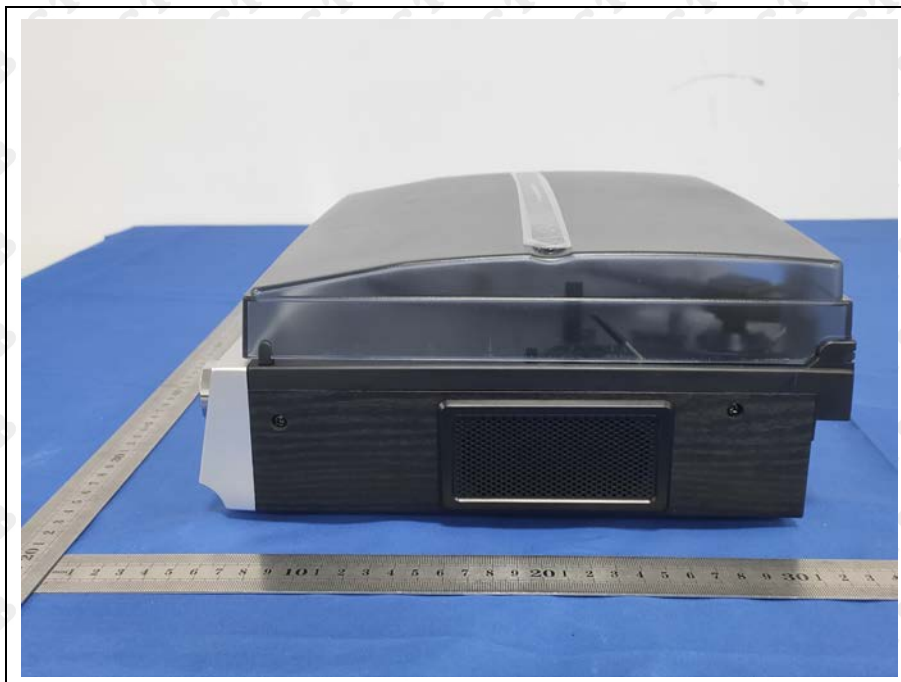
EUT photo 4



EUT photo 5



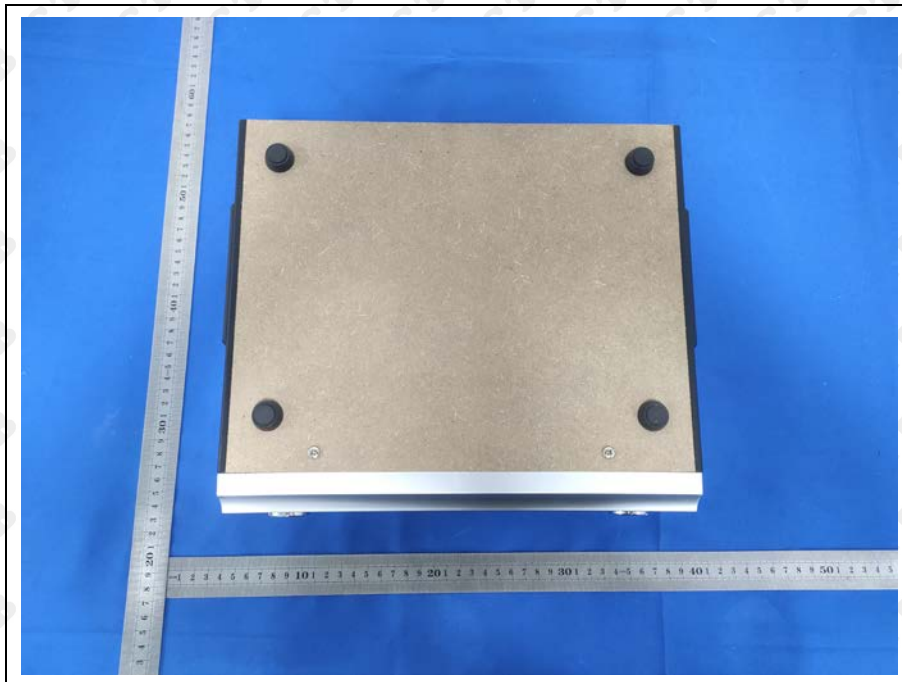
EUT photo 6



EUT photo 7



EUT photo 8



EUT photo 9



EUT photo 10



End of report