TEST REPORT

FCC ID: 2BRBR-PTB3

Applicant:	goPETL, LLC
Address:	11110 W Oakland Park Blvd #368 Sunrise FL 33351, USA.
Manufacturer:	JIANGXI LITKCONN OPTICS CO LTD.
Address:	Economie and Technological bevelopment /one, Longnan City, Jiangxi
Product Name:	PETL MagSafe Battery
Trade Mark:	PETL
Model Number:	PTB-3
Date of Receipt:	Jul. 03, 2025
Test Date:	Jul. 03, 2025 - Jul. 16, 2025
Date of Report:	Jul. 16, 2025
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Applicable Standards:	FCC PART 15 Subpart C ANSI C63.10:2013
Test Result:	Pass
Report Number:	DLE-250703015R

Prepared (Engineer):	Alisa Song
Reviewer (Supervisor):	Jack Bu
Approved (Manager):	Jade Yang

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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1. VERSION

Version No.	Date	Description
00	Jul. 16, 2025	Original

2. TEST SUMMARY

EMC Emission			
Test Item	Section in CFR 47	Result	Remark
AC Power Line Conducted Emission	15.207	PASS	
Spurious Emission	15.209(a)(f)	PASS	
20dB Bandwidth	15.215	PASS	
Antenna requirement	15.203	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

Test lab: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

3. GENERAL INFORMATION

3.1 Description of Device (EUT)

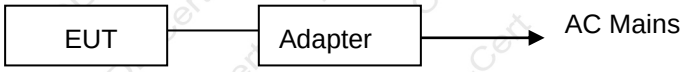
Product Name:	PETL MagSafe Battery
Trade Mark:	PETL
Model Number:	PTB-3
Model Difference:	N/A
Serial No.:	N/A
Hardware version:	H1.0
Software version:	S1.0
Operation Frequency:	115kHz ~ 205KHz
Modulation type:	MSK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi
Power supply:	Capacity: 3000mAh,11.4Wh/3.8V Type-C Input: 5V⎓2A Wireless Output: 5W/7.5W/10W(Max)

3.2 Tested System Details

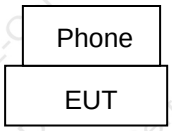
None.

3.3 Block Diagram of Test Set-up

AC Mode



DC Mode



3.4 Test Mode Description

Mode1. Type-C Input+ Wireless charger Output Mode(Full Load, 1%/50%/99%)
Mode2. Type-C Input+ Wireless charger Output Mode(Half Load, 1%/50%/99%)
Mode3. Type-C Input+ Wireless charger Output Mode(No Load, 1%/50%/99%)
Mode4. Wireless charger Output Mode(Full Load, 1%/50%/99%)
Mode5. Wireless charger Output Mode(Half Load, 1%/50%/99%)
Mode6. Wireless charger Output Mode(No Load, 1%/50%/99%)

Note: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

2. All modes have been tested, and the report only shows the results of the worst mode1 and mode4.

3.5 Test Auxiliary Equipment

Adapter (Provide by test lab):
Manufacturer: XIAOMI
Model: AD65G
I/P: AC 100-240V 50/60Hz
O/P: DC 5V/3A, DC 9V/3A, DC 10V/5A, DC 12V/3A, DC 15V/3A, DC 20V/3.25A

Mobile phone (Provide by test lab):
Manufacturer: SAMSUNG
Model: Galaxy S21 5G

3.6 Test Uncertainty

Conducted Emission Uncertainty(150KHz-30MHz)	:	±2.56dB
20dB Bandwidth	:	±0.5kHz
Radiated Emission Uncertainty(9KHz-1GHz)	:	±3.24dB

4. TEST INSTRUMENT USED

For Conducted Emission Test (843 Shielded Room)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
Clamp	COM-POWER	CLA-050	431071	Nov. 02, 2024	Nov. 01, 2025
3-Loop Antenna	DAZE	ZN30401	13021	Nov. 02, 2024	Nov. 01, 2025
ISN T8	Schwarzbeck	NTFM 8158	101135	Nov. 01, 2024	Oct. 31, 2025
ISN T5	Schwarzbeck	NTFM 8158	101136	Nov. 01, 2024	Oct. 31, 2025
843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025
843 Cable 1#	ChengYu	CE Cable	002	Nov. 01, 2024	Oct. 31, 2025

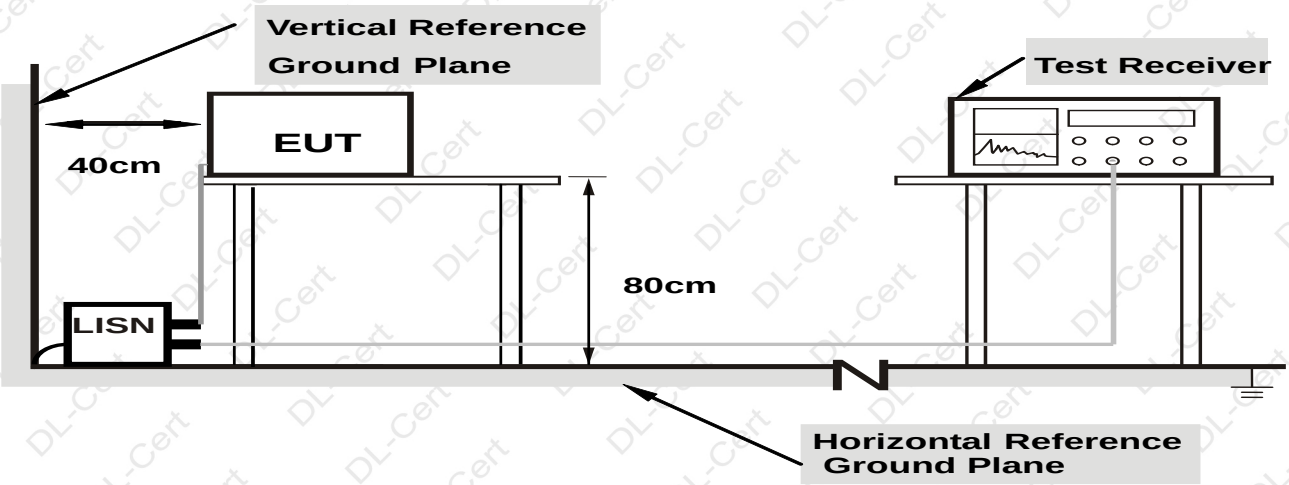
For Radiated Emission Test (966 chamber)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
966 Chamber	YIHENG	966 Room	966	Nov. 06, 2023	Nov. 05, 2026
Spectrum Analyzer	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
EMI Receiver	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
Amplifier	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
Amplifier	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
Broadband Trilog Antenna	Schwarzbeck	VULB9162	00306	Nov. 02, 2024	Nov. 01, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	02139	Nov. 02, 2024	Nov. 01, 2025
Loop Antenna	ZHINAN	ZN30900A	/	Nov. 01, 2024	Oct. 31, 2025
966 Cable 1#	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
966 Cable 2#	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025

5. CONDUCTED EMISSION TEST

5.1 Block Diagram of Test Setup

For Mains Terminals Test



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

5.2 Test Standard and Limit

FCC Part 15 Subpart C

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15~0.50	66 ~ 56*	55 ~ 46*
0.50~5.00	56	46
5.00~30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

5.3 EUT Configuration on Test

The following equipment's are installed on conducted emission test to meet FCC Part 15 Subpart C requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

5.4 Operating Condition of EUT

5.4.1 Setup the EUT and simulators as shown in Section 5.1.

5.4.2 Turn on the power of all equipments.

5.4.3 Let the EUT work in test modes and test it.

5.5 Test Procedure

The EUT is put on the table and connected to the AC mains through a Artificial Mains Network (AMN) or ISN. This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **ANSI C63.10** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESR) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

Notes:

1.An initial pre-scan was performed on the line and neutral lines with peak detector.

2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

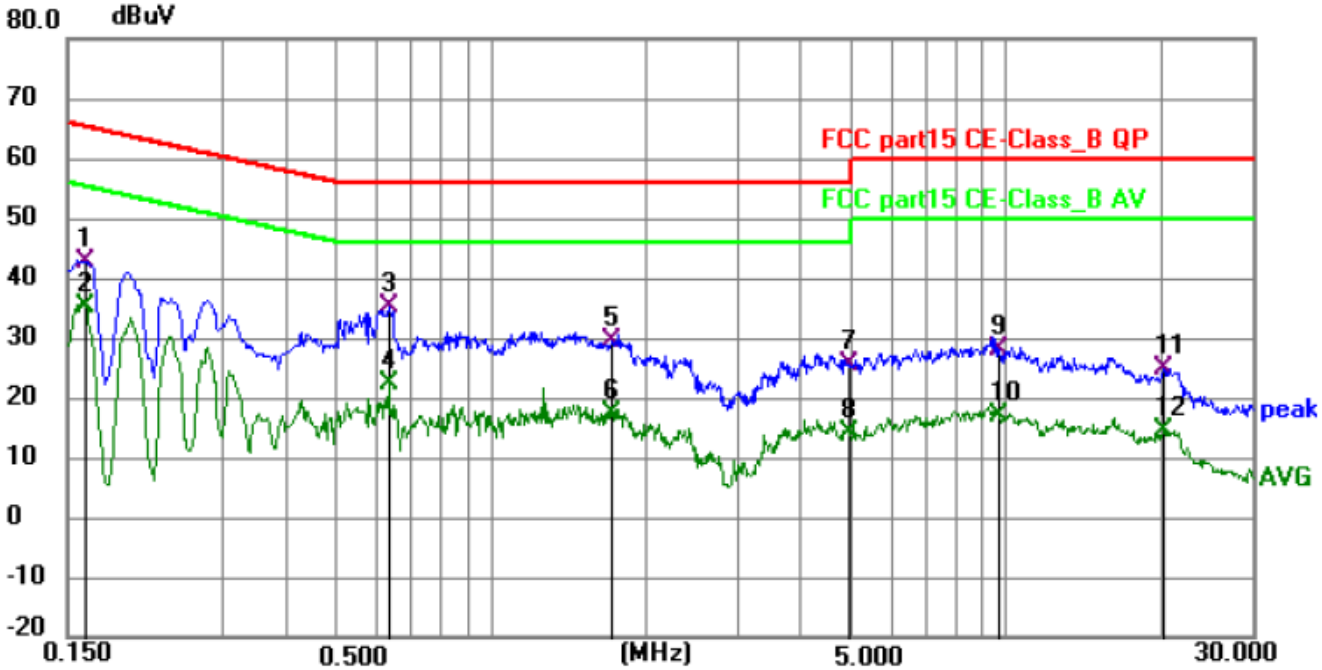
3.Mesurement Level = Reading level + Correct Factor

5.6 Test Result

PASS

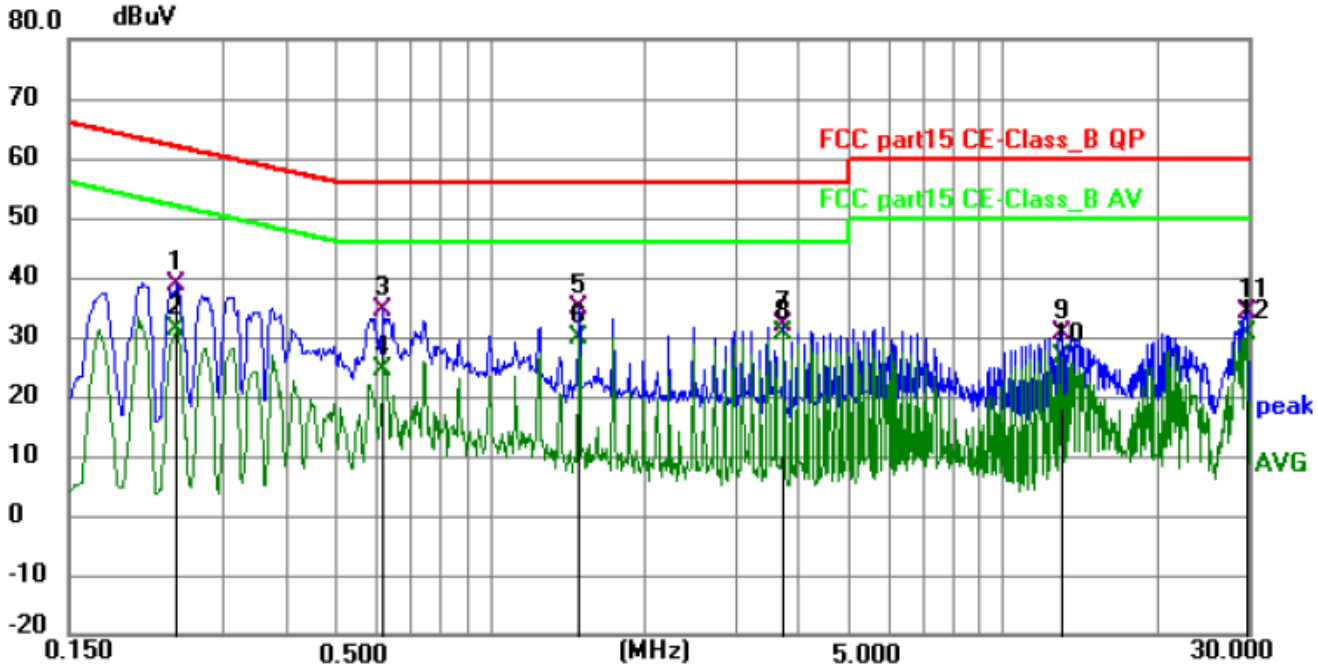
Please refer to the following page.

Conducted Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Line
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	32.62	10.04	42.66	65.28	-22.62	QP	P	
2 *	0.1635	25.18	10.04	35.22	55.28	-20.06	AVG	P	
3	0.6312	24.98	10.12	35.10	56.00	-20.90	QP	P	
4	0.6312	12.12	10.12	22.24	46.00	-23.76	AVG	P	
5	1.7202	19.55	10.06	29.61	56.00	-26.39	QP	P	
6	1.7202	7.10	10.06	17.16	46.00	-28.84	AVG	P	
7	4.9560	15.14	10.38	25.52	56.00	-30.48	QP	P	
8	4.9560	3.77	10.38	14.15	46.00	-31.85	AVG	P	
9	9.7302	16.92	11.22	28.14	60.00	-31.86	QP	P	
10	9.7302	5.60	11.22	16.82	50.00	-33.18	AVG	P	
11	20.1705	12.59	12.09	24.68	60.00	-35.32	QP	P	
12	20.1705	2.45	12.09	14.54	50.00	-35.46	AVG	P	

Conducted Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Neutral
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)

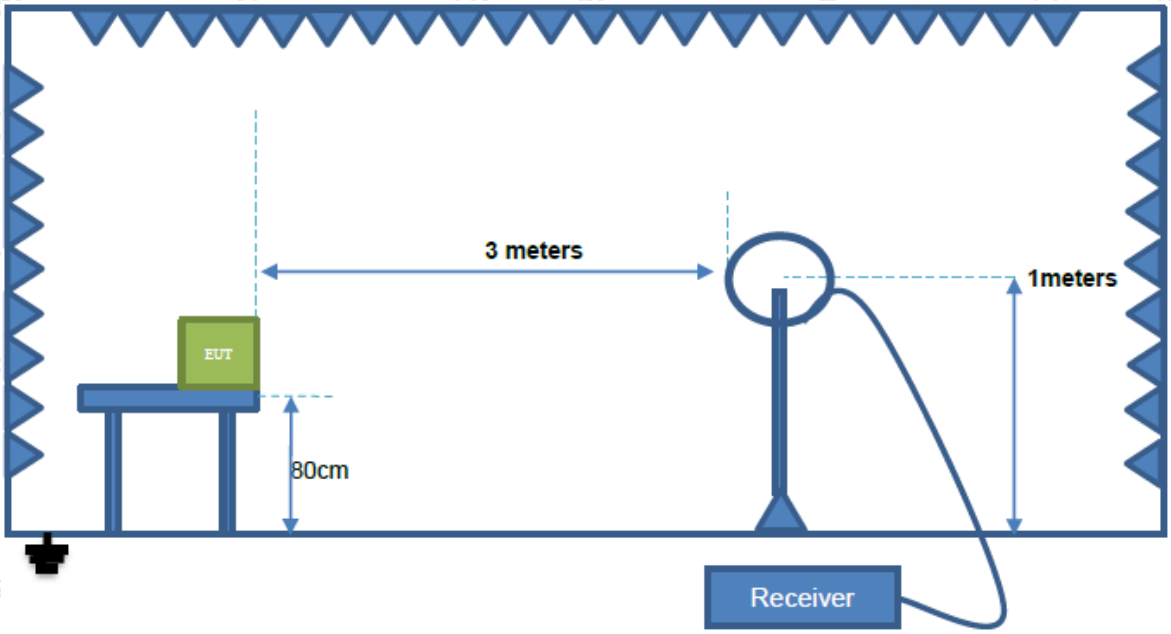


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2444	28.41	10.20	38.61	61.95	-23.34	QP	P	
2	0.2444	21.08	10.20	31.28	51.95	-20.67	AVG	P	
3	0.6180	24.21	10.16	34.37	56.00	-21.63	QP	P	
4	0.6180	14.24	10.16	24.40	46.00	-21.60	AVG	P	
5	1.4910	24.77	10.08	34.85	56.00	-21.15	QP	P	
6	1.4910	19.81	10.08	29.89	46.00	-16.11	AVG	P	
7	3.7275	21.90	10.12	32.02	56.00	-23.98	QP	P	
8 *	3.7275	20.41	10.12	30.53	46.00	-15.47	AVG	P	
9	13.0470	19.15	11.43	30.58	60.00	-29.42	QP	P	
10	13.0470	15.34	11.43	26.77	50.00	-23.23	AVG	P	
11	29.9355	20.96	13.17	34.13	60.00	-25.87	QP	P	
12	29.9355	17.47	13.17	30.64	50.00	-19.36	AVG	P	

6. RADIATION EMISSION TEST

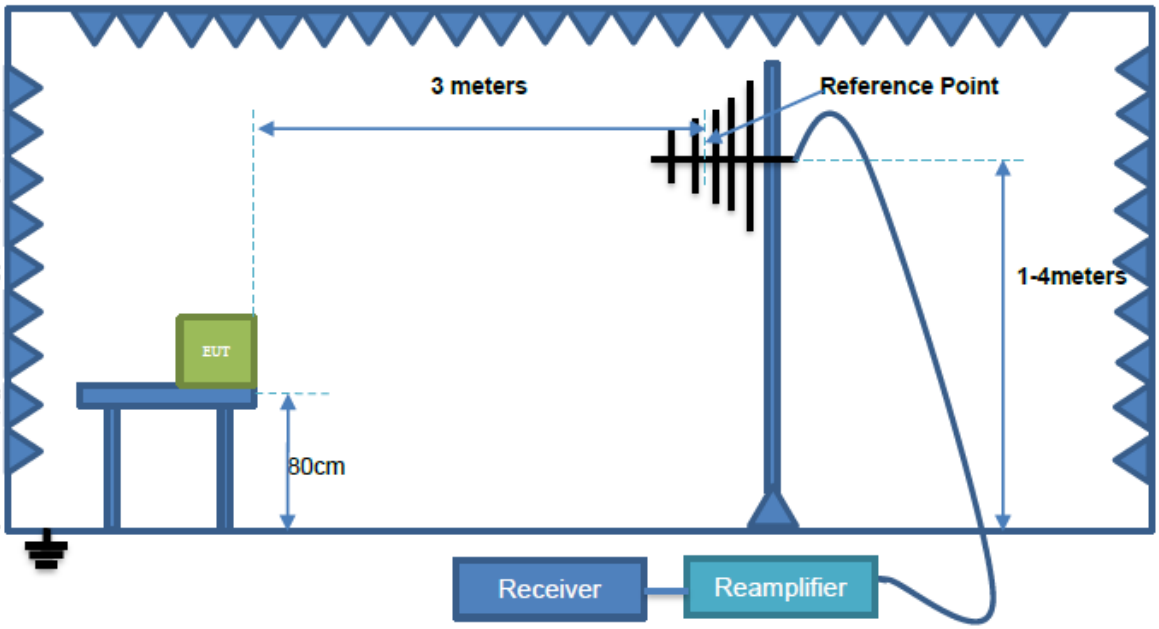
6.1 Block Diagram of Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



Radiation Test (9k - 30MHz)

Below 1GHz



Radiation Test (30MHz – 1GHz)

6.2 Test Standard and Limit

FCC Part 15 Subpart C

Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.090	2400/F(kHz)	300	AVERAGE
0.090-0.110	2400/F(kHz)	300	Quasi-peak Value
0.110-0.490	2400/F(kHz)	300	AVERAGE
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

Above 30MHz

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)	Remark
30 ~ 88	3	40.0	Quasi-peak Value
88 ~ 216	3	43.5	Quasi-peak Value
216 ~ 960	3	46.0	Quasi-peak Value
960 ~ 1000	3	54.0	Quasi-peak Value
Above 1000	3	74.0	PEAK
		54.0	AVERAGE

Remark:

(1) The smaller limit shall apply at the cross point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

6.3 EUT Configuration on Test

The FCC Part 15 Subpart C regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 5.3.

6.4 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 5.4 except the test set up replaced as Section 6.2.

6.5 Test Procedure

1) The radiated emissions test was conducted in a semi-anechoic chamber.

2) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

3) Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.

4) The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

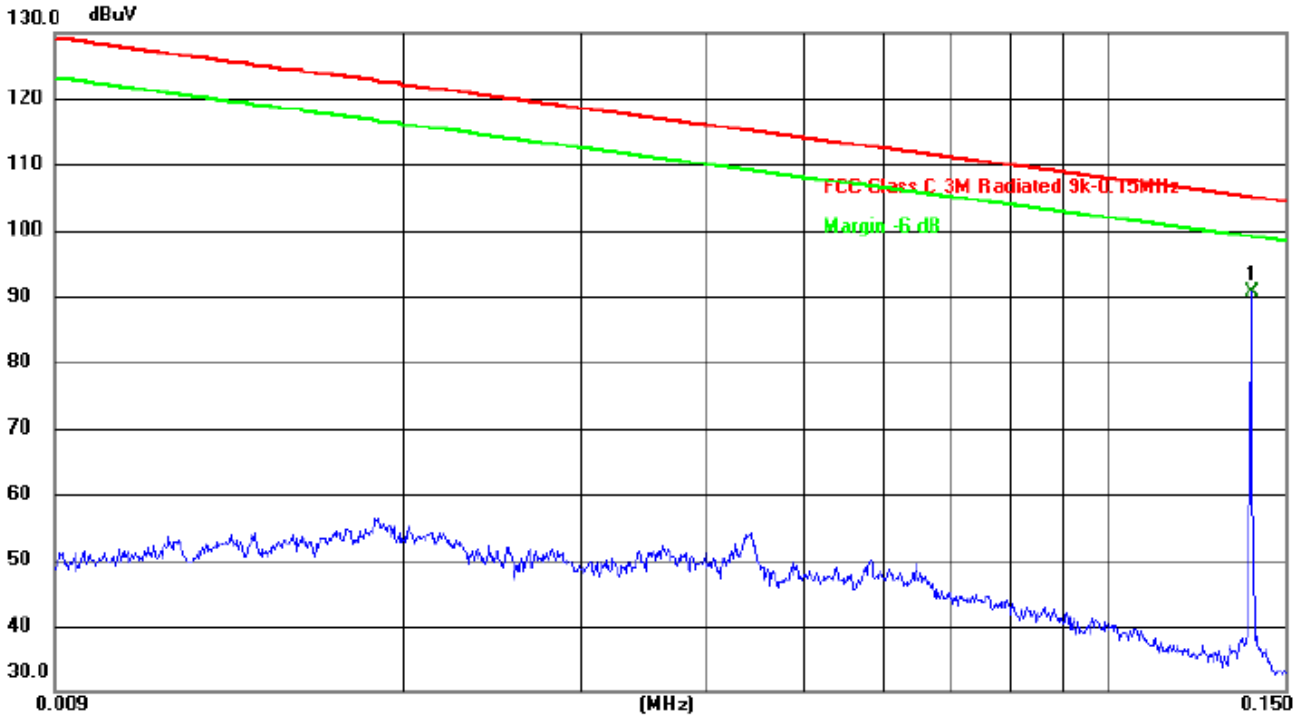
5) The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz.

6) The frequency range from 30MHz to 1000MHz is checked.

6.6 Test Result

PASS, Please refer to the following page.

Radiation Emission Test Data 9 kHz~0.15MHz			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
0.1386	90.21	9.13	99.34	105.04	-5.7	AVERAGE

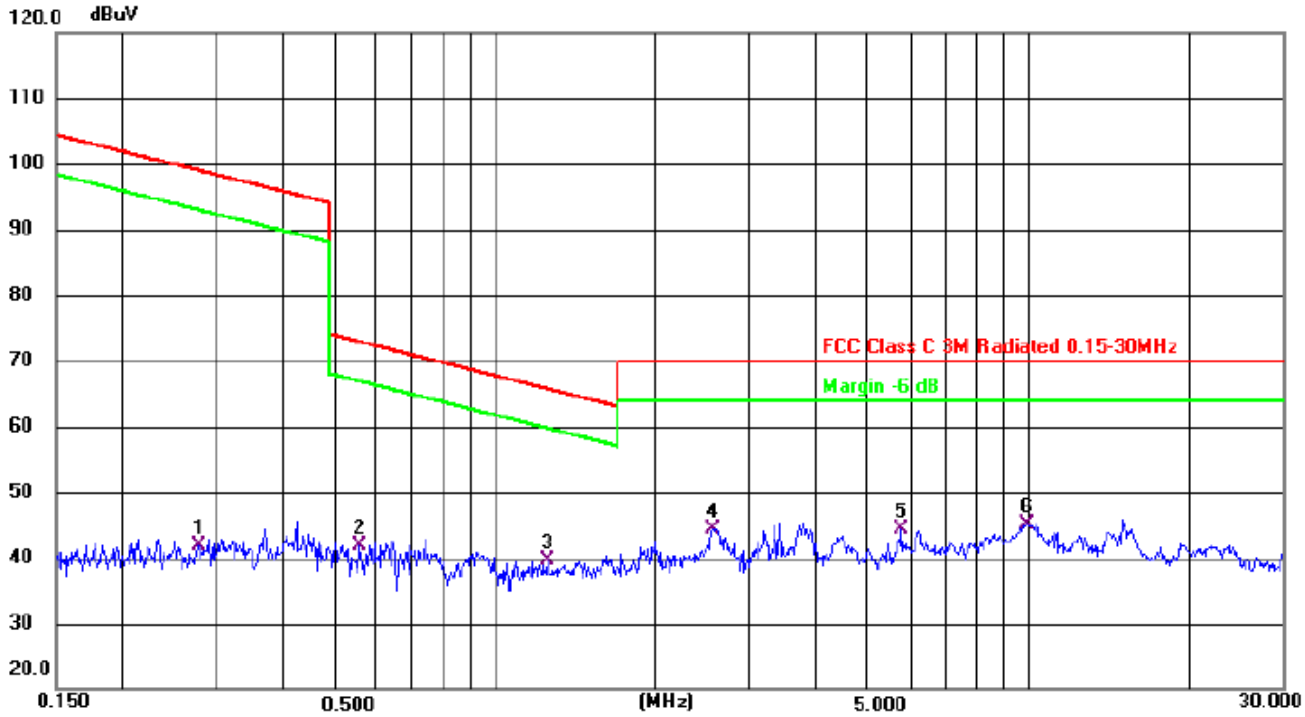
Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level(Meter Reading+ Factor) - Limit.

Radiation Emission Test Data 0.15MHz~30 MHz			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
0.2772	42.27	9.15	51.42	98.98	-47.56	QP
0.5551	42.41	9.72	52.13	72.9	-20.77	QP
1.2479	40.08	9.31	49.39	65.75	-16.36	QP
2.5535	45.11	9.36	54.47	70	-15.53	QP
5.7743	44.23	8.44	52.67	70	-17.33	QP
9.9130	46.41	9.52	55.93	70	-14.07	QP

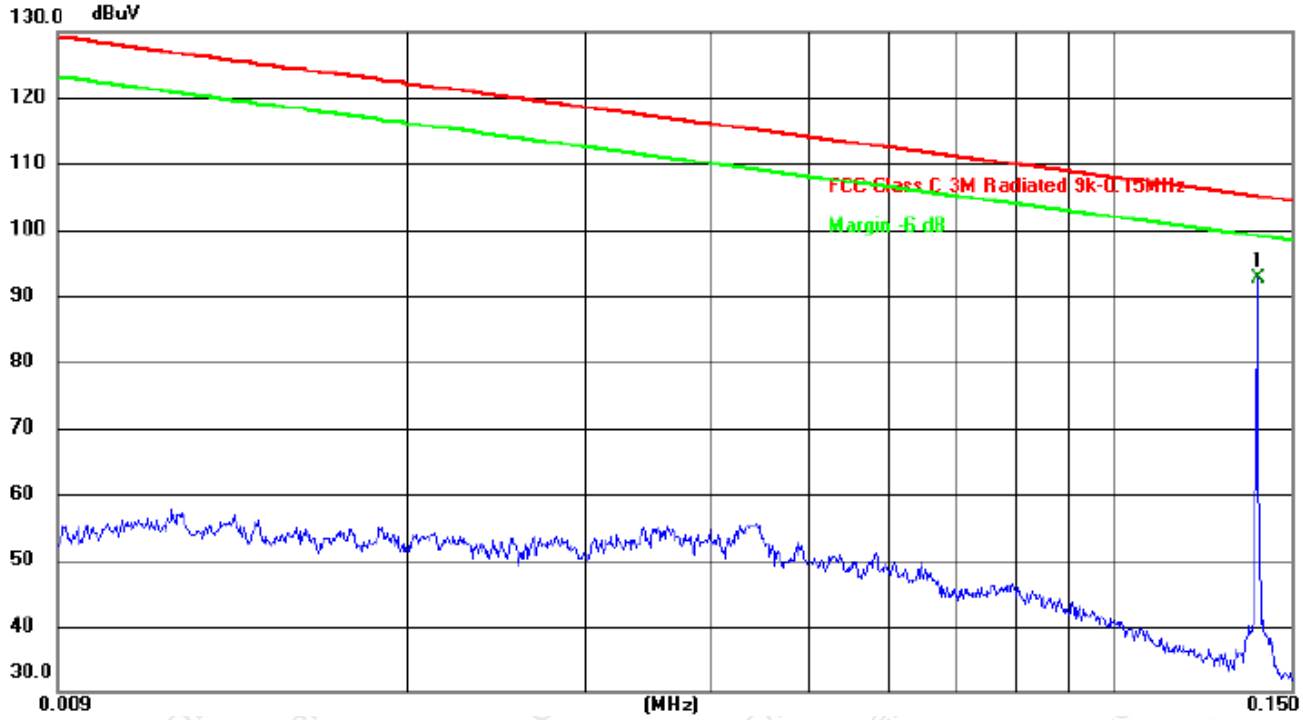
Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level(Meter Reading+ Factor) - Limit.

Radiation Emission Test Data 9 kHz~0.15MHz			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	DC 3.8V	Test Mode:	Mode 4(Portable)



Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
0.1386	92.21	9.13	101.34	105.04	-3.7	AVERAGE

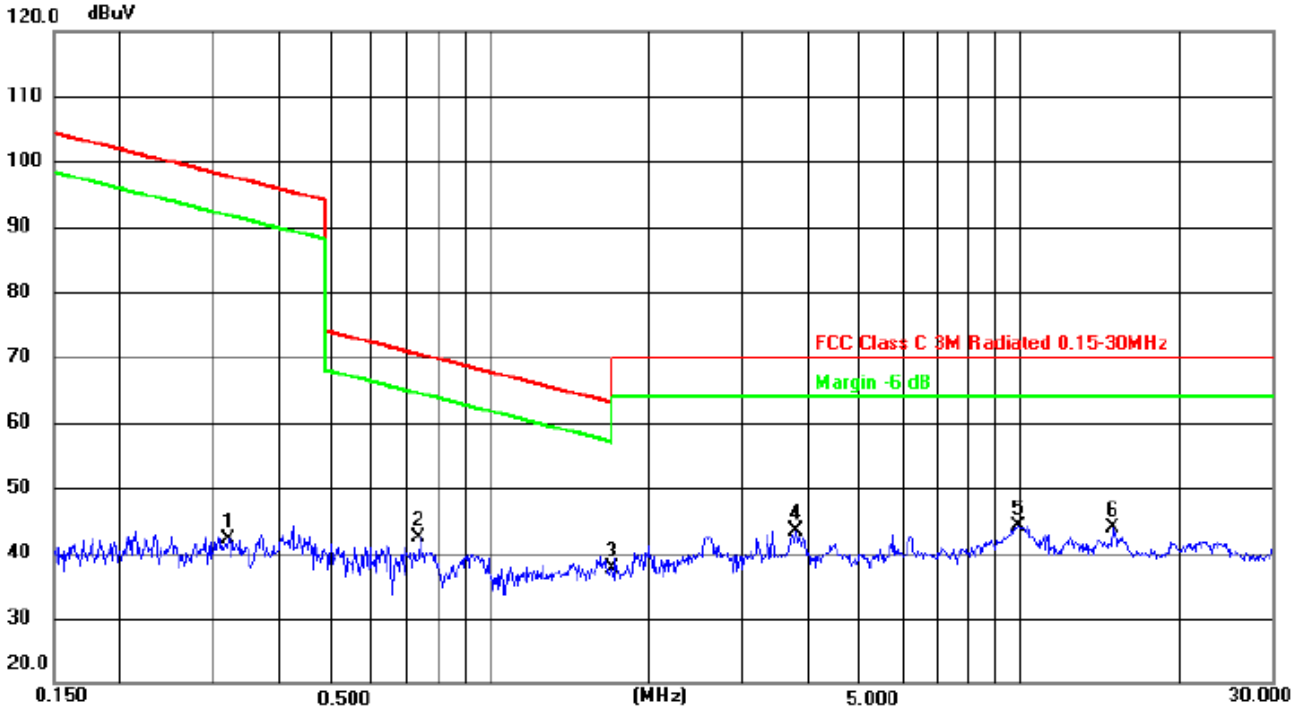
Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level(Meter Reading+ Factor) - Limit.

Radiation Emission Test Data 0.15MHz~30 MHz			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	DC 3.8V	Test Mode:	Mode 4(Portable)



Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
0.3200	43.25	9.15	52.4	97.73	-45.33	QP
0.7347	42.06	9.72	51.78	70.43	-18.65	QP
1.6975	39.62	9.31	48.93	63.04	-14.11	QP
3.7793	43.58	9.36	52.94	70	-17.06	QP
9.9130	45.18	8.44	53.62	70	-16.38	QP
14.9068	43.11	9.52	52.63	70	-17.37	QP

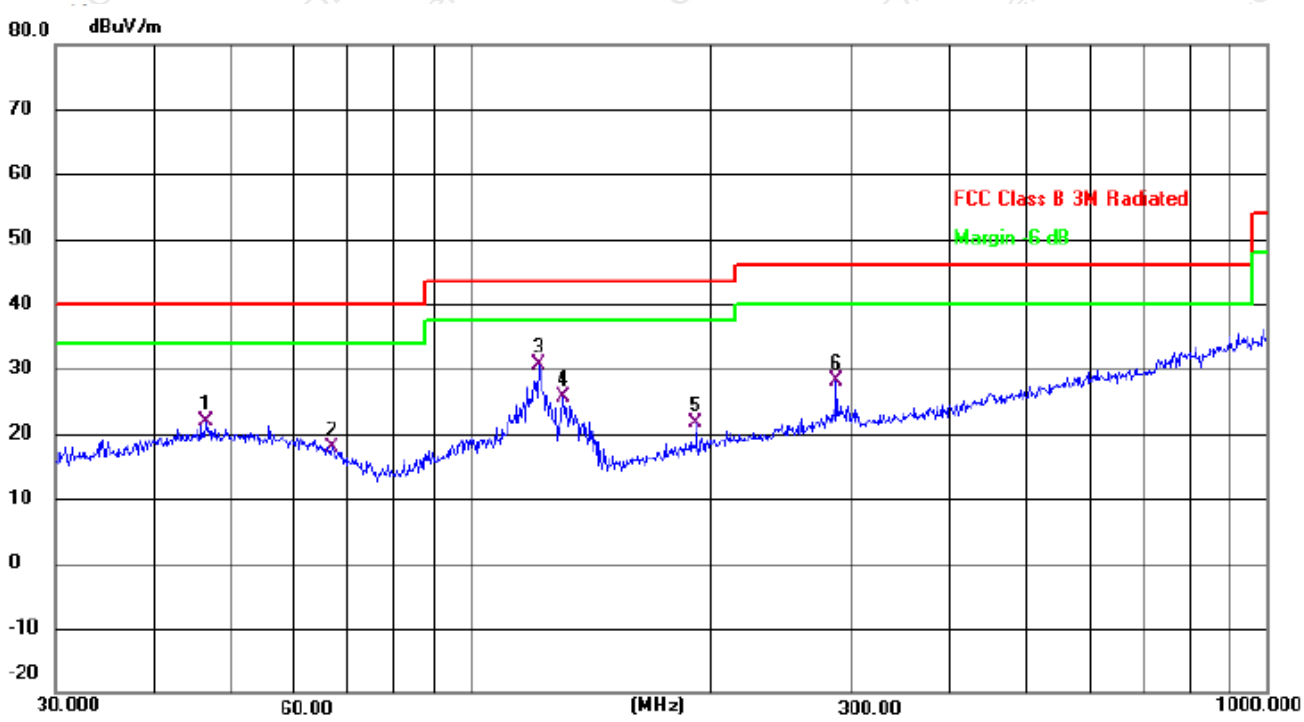
Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

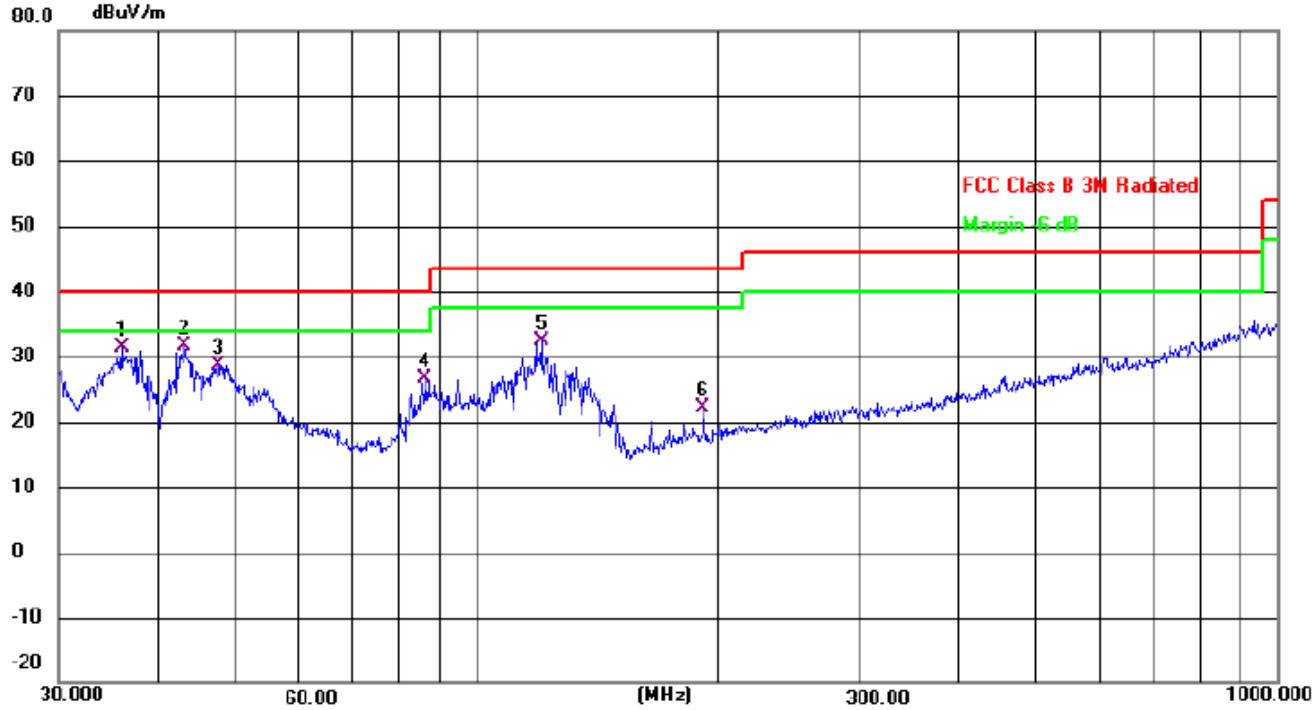
Margin = Emission Level(Meter Reading+ Factor) - Limit.

Radiation Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		46.5030	28.47	-6.49	21.98	40.00	-18.02	QP
2		66.7325	27.48	-9.52	17.96	40.00	-22.04	QP
3	*	121.5486	41.55	-10.95	30.60	43.50	-12.90	QP
4		130.3789	37.67	-12.02	25.65	43.50	-17.85	QP
5		191.7450	31.18	-9.52	21.66	43.50	-21.84	QP
6		287.9904	34.41	-6.25	28.16	46.00	-17.84	QP

Radiation Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)



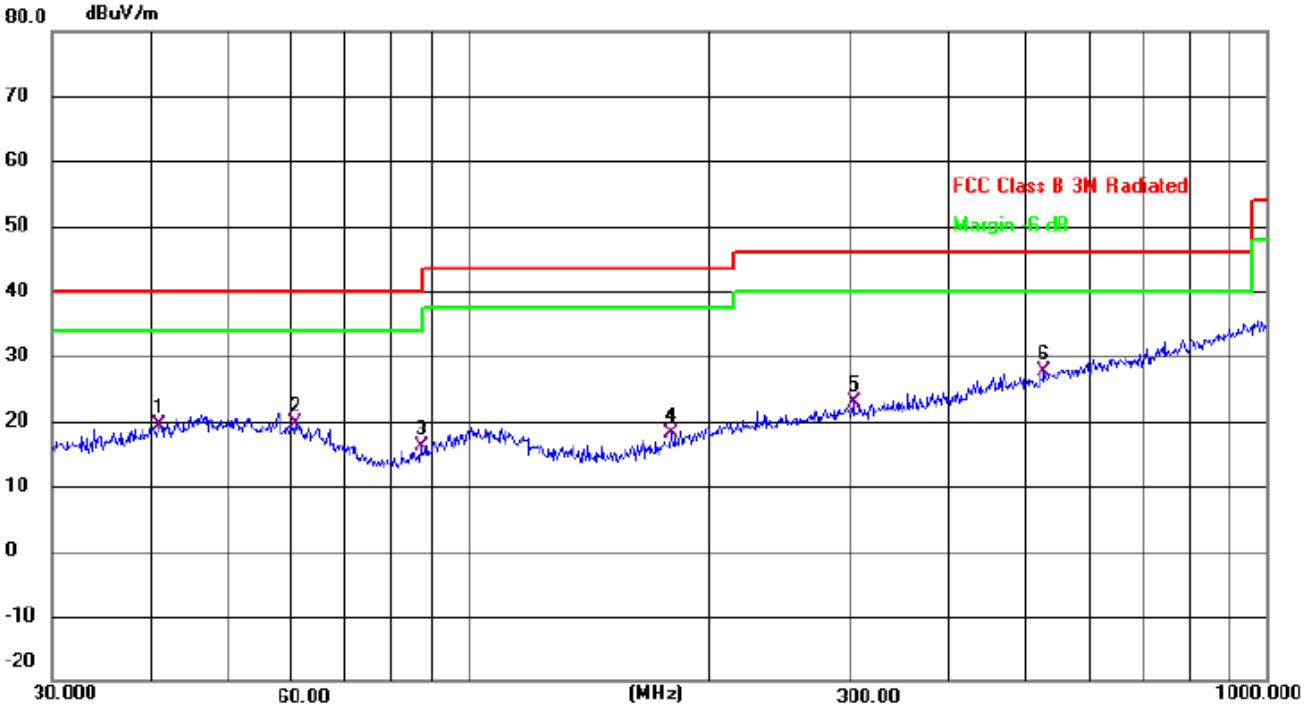
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		36.0007	40.73	-9.36	31.37	40.00	-8.63	QP
2	*	43.0505	39.08	-7.43	31.65	40.00	-8.35	QP
3		47.4918	35.52	-6.84	28.68	40.00	-11.32	QP
4		86.2001	38.24	-11.69	26.55	40.00	-13.45	QP
5		120.2766	43.01	-10.62	32.39	43.50	-11.11	QP
6		191.7450	31.72	-9.52	22.20	43.50	-21.30	QP

Remarks:

1.Final Level =Receiver Read level + Correct factor (Antenna Factor + Cable Loss – Preamplifier Factor)

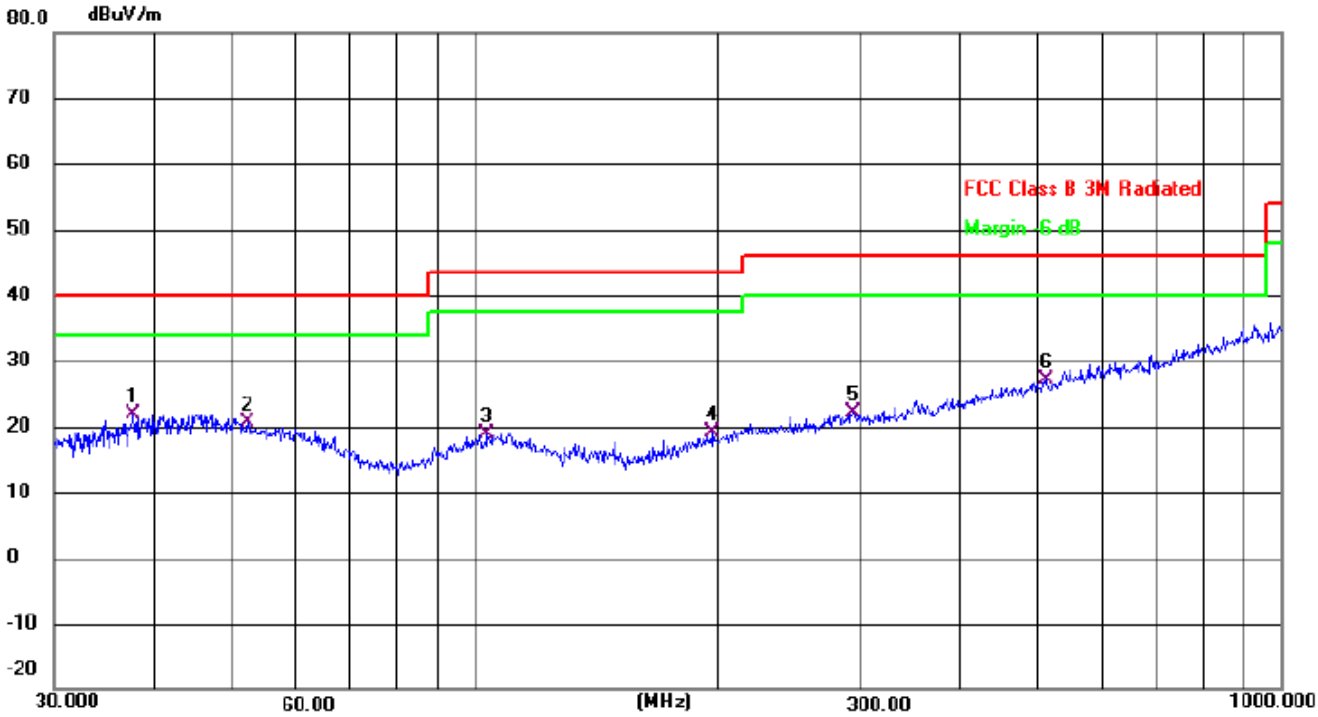
2.The emission levels of other frequencies are very lower than the limit and not show in test report.

Radiation Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	DC 3.8V	Test Mode:	Mode 4(Portable)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		40.8446	27.04	-7.70	19.34	40.00	-20.66	QP
2		60.4919	27.47	-7.86	19.61	40.00	-20.39	QP
3		87.1117	27.81	-11.67	16.14	40.00	-23.86	QP
4		179.3863	28.45	-10.35	18.10	43.50	-25.40	QP
5		303.5437	28.84	-6.08	22.76	46.00	-23.24	QP
6	*	526.3967	28.55	-0.97	27.58	46.00	-18.42	QP

Radiation Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	DC 3.8V	Test Mode:	Mode 4(Portable)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	37.6798	30.71	-8.71	22.00	40.00	-18.00	QP
2		52.2079	27.69	-7.17	20.52	40.00	-19.48	QP
3		103.4421	27.54	-8.56	18.98	43.50	-24.52	QP
4		197.2001	28.22	-9.11	19.11	43.50	-24.39	QP
5		294.1137	28.02	-5.99	22.03	46.00	-23.97	QP
6		510.0436	28.51	-1.42	27.09	46.00	-18.91	QP

Remarks:

1.Final Level =Receiver Read level + Correct factor (Antenna Factor + Cable Loss – Preamplifier Factor)

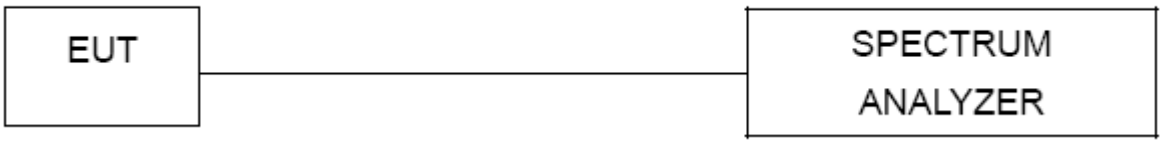
2.The emission levels of other frequencies are very lower than the limit and not show in test report.

7. BANDWIDTH TEST

7.1 TEST SETUP

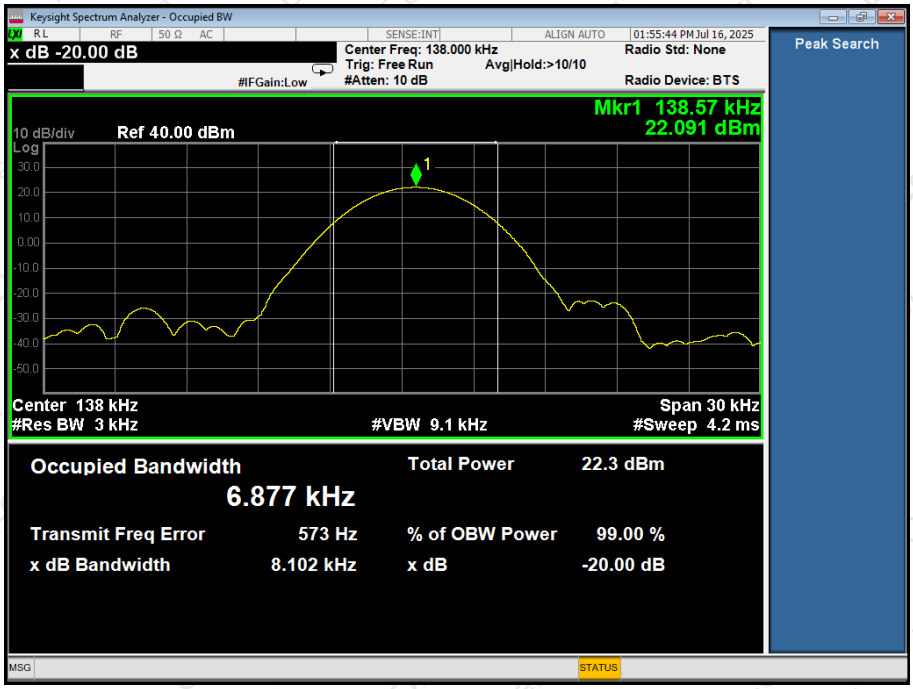
1. Set RBW = 3KHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

7.2 TEST SETUP



7.3 TEST Result

Frequency (KHz)	20dB bandwidth (KHz)	Result
138	8.102	Pass



8. SETUP PHOTOGRAPHS

Reference to the setup photo for details.

9. EUT PHOTOGRAPHS

Reference to the external and internal photo for details.

※※※※※ **END OF REPORT** ※※※※※