

FCC PART 15 SUBPART C

Vehicle MagSafe

MODEL No.: ERPWMAC15BK-CN

FCC ID: 2BTOTERPWMAC15BK-CN

REPORT NO.: SZNTT26027254E1-1

ISSUE DATE: Jul. 08, 2026

Prepared for

ERTEA SE

KLIMENTSKA 1746/52 NOVE MESTO 110 00PRAHA CZECHIA

Prepared by

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TEST REPORT DESCRIPTION

Applicant : ERTEA SE

Address : KLIMENTSKA 1746/52 NOVE MESTO 110 00PRAHA CZECHIA

Manufacturer : ShenZhen Sunlike Technology Co.,Ltd.

Address : Building 9, TongFuCun Industrial Zone, Dalang Street, Longhua District, Shenzhen City, China

EUT : Vehicle MagSafe

Model Name : ERPWMAC15BK-CN

Trademark : ERPOWER

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15, Subpart C	PASS

The above equipment was tested by Shenzhen NTT Testing Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Prepared by (Test Engineer):
Cindy Qin

Cindy Qin

Reviewer (Supervisor):
Ken Wu

Ken Wu

Approved (Manager):
Abel Yu





Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	SZNTT26027254E1-1	Jul. 08, 2026	Original Version



1. SUMMARY OF TEST RESULTS

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



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Vehicle MagSafe

Model Number : ERPWMAC15BK-CN
Model different : /

Power Rating : Input: PD 20W
Wireless Output: 5W, 7.5W, 10W, 15W Max

Operation : 111-205 KHz
Frequency for WPT

Modulation : ASK

Antenna Type: : Coil Antenna

Date of Received : Jun. 30, 2026

Date of Test : Jun. 30, 2026 to Jul. 08, 2026

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Vehicle MagSafe	ERPOWER	ERPWMAC15BK-CN	N/A	EUT
E-2	Phone	SAMSUNG	S23	N/A	Auxiliary
E-3	Adapter	OMIX	X2903	N/A	Auxiliary

Note: (1)The support equipment was authorized by Declaration of Confirmation.
(2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.3. Independent Operation Modes

Mode	Description	Remark
1	Adaper+EUT + iPhone(15W)	5%
2		50%
3		95%
4	Adaper+EUT + iPhone(10W)	5%
5		50%
6		95%
7	Adaper+EUT + iPhone(7.5W)	5%
8		50%
9		95%
10	Adaper+EUT + iPhone(5W)	5%
11		50%
12		95%
Remark:		
1 All the modes have tested and recorded the worst mode in the report.		
2.5% indicates that iPhone battery capacity < 5%;		
3.50% indicates that iPhone battery capacity is 50%;		
4.95% indicates that iPhone battery capacity is 95%		



2.4. Test Mode

Test Items	Test Voltage	Operation Modes
RE	AC 120V/60Hz	Mode 1
CE	AC 120V/60Hz	Mode 1

2.5. Description of Test Facility

Site Description

Designation Number: CN3446
Test Firm Registration Number: 129414
EMC Lab. : Accredited by ANAB, Dec. 19, 2025
The Certificate Registration Number is AT-3446
Name of Firm : Shenzhen NTT Testing Technology Co., Ltd.
Site : 1B, Building 2, Factory Building & 103, Building 3, Factory Building,
Location : Dayang Industrial Park No.4, Industrial Avenue, Tangwei Community,
Fuhai Sub-district, Bao 'an District, Shenzhen City, China



2.6. Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9KHz~30MHz)	$\pm 4.51\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$
Remark:When making a conformity declaration based on test results for regulations/standards or specifications,the default is to use Clause 4.2.1of ILAC-G8:09/2019 and the guidelines on decision rules and conformity declaration in IEC Guide 115:2023.	

3. MEASURING DEVICE AND TEST EQUIPMENT

Conducted Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	HSRCE944	/	HTEC	2025/4/30	2028/4/29
EMI Test Receiver	ESPI	/	RS	2025/9/8	2026/9/7
LISN	NNLK 8129	00603	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00694	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00680	Schwarzbeck	2025/9/8	2026/9/7
Cable	RG223-1500MM	NA	RG	2025/9/8	2026/9/7

Radiated Test Site(Below 1G and Above 1G)&RF Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/7/24	2028/7/23
EMI Test Receiver	ESCI	101018	RS	2025/9/8	2026/9/7
Amplifier (30MHz-1GHz)	BBV 9718D	00042	SCHWARZBECK	2025/9/8	2026/9/7
Bilog Antenna (30MHz-1GHz)	VULB9168	1858	SCHWARZBECK	2025/9/9	2026/9/8
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2025/9/9	2026/9/8
Preamplifier (1GHz-18GHz)	BBV 9718D	0024	SCHWARZBECK	2025/9/8	2026/9/7
Spectrum Analyzer (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/9/8	2026/9/7
Preamplifier (18GHz-40GHz)	BBV 9721	0056	SCHWARZBECK	2025/9/8	2026/9/7
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2025/9/8	2026/9/7
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHWARZBECK	2025/9/8	2026/9/7
Amplifier (9KHz-30MHz)	CVP 9222 C	00109	SCHWARZBECK	2025/9/8	2026/9/7
MXG Signal Analyzer	N9020A	MY505102 02	Agilent	2025/9/8	2026/9/7



MXG Vector Signal Generator	N5182A	MY501400 20	Agilent	2025/9/8	2026/9/7
MXG Analog Signal Generator	N5181A	MY474209 19	Agilent	2025/9/8	2026/9/7
Power Sensor	TR1029-2	512364	Techoy	2025/9/8	2026/9/7
RF Swith	TR1029-1	512364	Techoy	2025/9/8	2026/9/7
Cable	DA800- 4000MM	NA	DA	2025/9/8	2026/9/7
Cable	DA800- 11000MM	NA	DA	2025/9/8	2026/9/7

Test software

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ-EMC	Ver.EMC-CON 3A1.1+
2	EMC radiation test system	FALA	EZ-EMC	Ver.FA-03A2 RE+
3	RF test system	TACHOY	RFTest	V1.0.0
4	RF communication test system	TACHOY	RFTest	V1.0.0



4. 20DB BANDWIDTH

4.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1-5%OBW.

Set the video bandwidth (VBW) =3RBW.

Set Span= 1KHz

Set Detector = Peak.

Set Trace mode = Max hold.

Set Sweep = auto couple.

Measure and record the results in the test report.

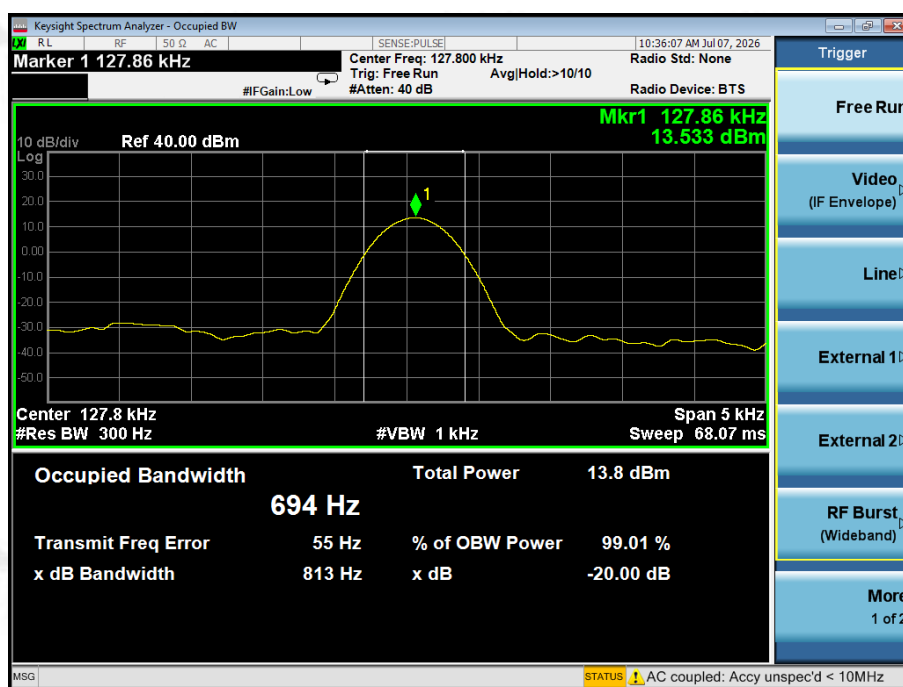
Note: Since the measured signal is CW-like, it is not practical to adjust the RBW according to C63.10, as the measured bandwidth will always follow the RBW, resulting in approximately twice the RBW.

4.2. Test Setup



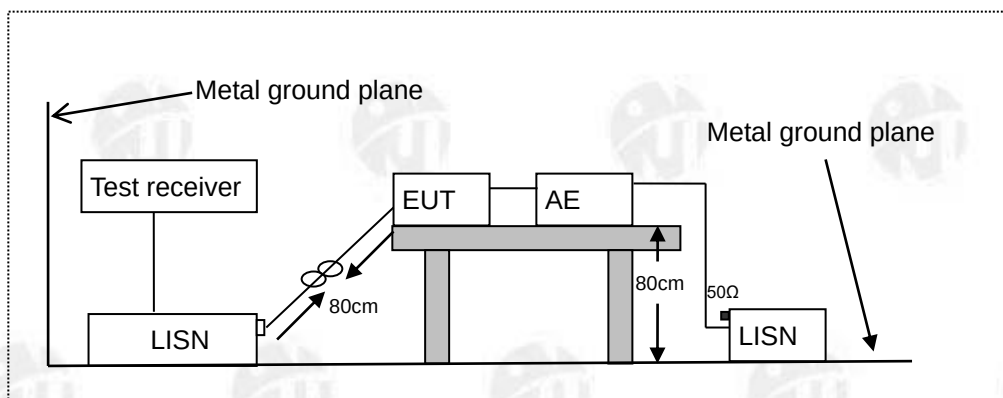
4.3. Test Results

Frequency (KHz)	20dB bandwidth (Hz)	99% bandwidth (Hz)	Result
127.86	813	694	Pass



5. POWER LINE CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network

AE: Associated equipment

EUT: Equipment under test

5.2. Limits

FCC Part 15.207

Frequency (MHz)			Limit (dBμV)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x 1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.



All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

Emission Level (dBμV) = LISN Factor (dB) + Cable Loss (dB) + Reading (dBμV)

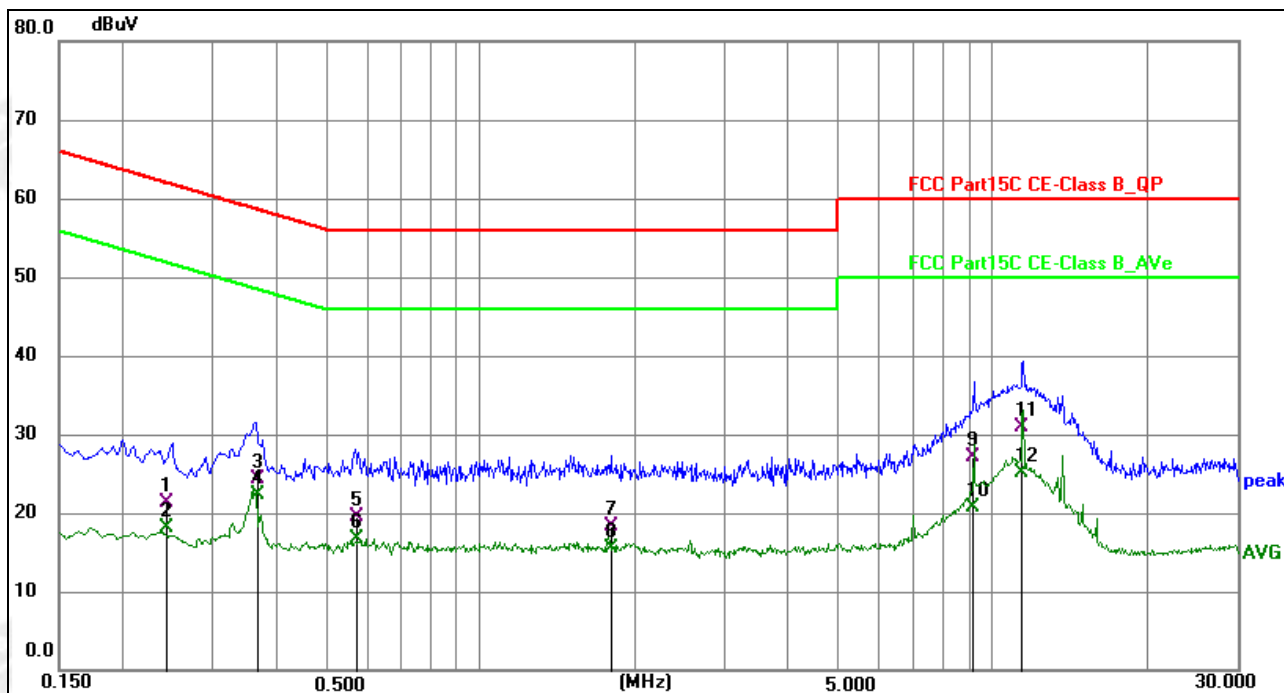
Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

5.4. Measuring Results

PASS.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Mode:	Mode 1



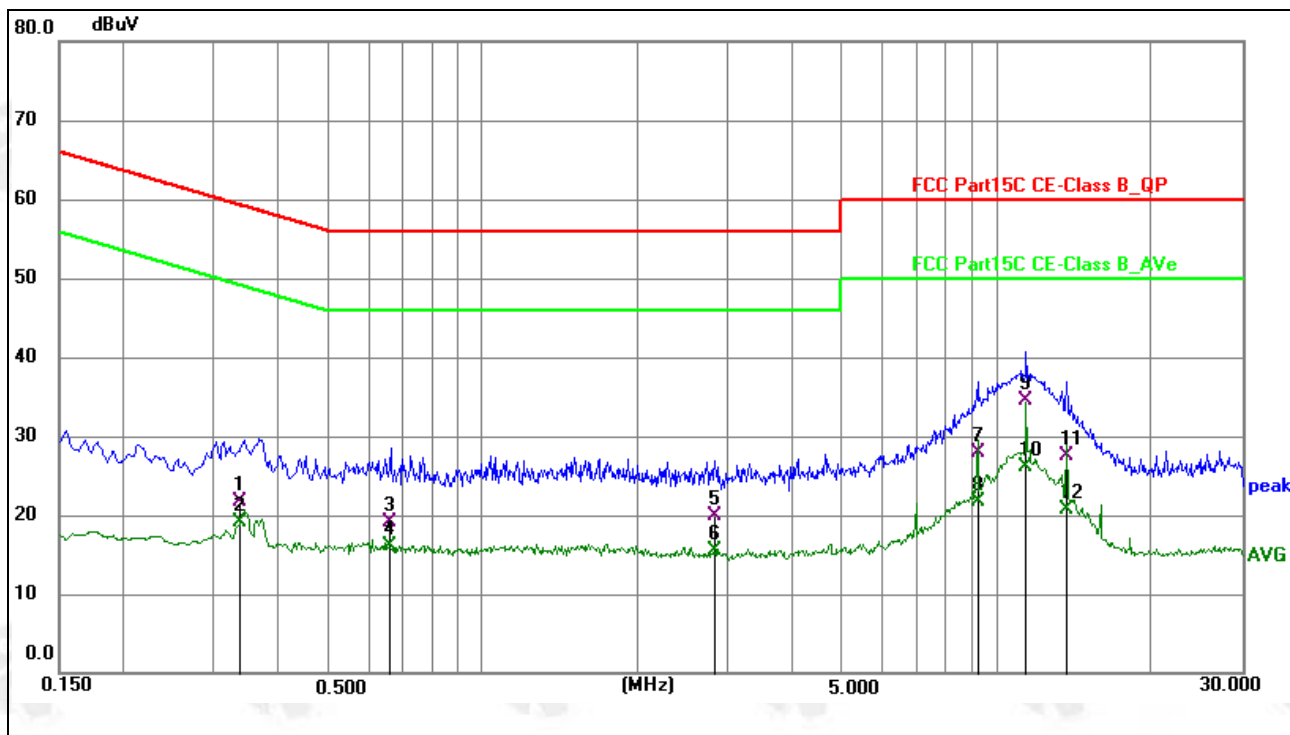
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2439	1.54	19.67	21.21	61.96	-40.75	QP
2	0.2439	-1.61	19.67	18.06	51.96	-33.90	AVG
3	0.3669	4.57	19.66	24.23	58.57	-34.34	QP
4	0.3669	2.57	19.66	22.23	48.57	-26.34	AVG
5	0.5701	-0.23	19.66	19.43	56.00	-36.57	QP
6	0.5701	-2.89	19.66	16.77	46.00	-29.23	AVG
7	1.8022	-1.45	19.69	18.24	56.00	-37.76	QP
8	1.8022	-4.24	19.69	15.45	46.00	-30.55	AVG
9	9.1932	7.38	19.76	27.14	60.00	-32.86	QP
10	9.1932	1.02	19.76	20.78	50.00	-29.22	AVG
11	11.4325	11.08	19.77	30.85	60.00	-29.15	QP
12 *	11.4325	5.36	19.77	25.13	50.00	-24.87	AVG

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.Measurement Level = Reading level + Correct Factor



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3369	2.14	19.65	21.79	59.28	-37.49	QP
2	0.3369	-0.47	19.65	19.18	49.28	-30.10	AVG
3	0.6620	-0.46	19.66	19.20	56.00	-36.80	QP
4	0.6620	-3.58	19.66	16.08	46.00	-29.92	AVG
5	2.8370	0.16	19.69	19.85	56.00	-36.15	QP
6	2.8370	-4.18	19.69	15.51	46.00	-30.49	AVG
7	9.1746	8.21	19.77	27.98	60.00	-32.02	QP
8	9.1746	1.89	19.77	21.66	50.00	-28.34	AVG
9	11.4217	14.69	19.78	34.47	60.00	-25.53	QP
10 *	11.4217	6.38	19.78	26.16	50.00	-23.84	AVG
11	13.6832	7.67	19.82	27.49	60.00	-32.51	QP
12	13.6832	0.92	19.82	20.74	50.00	-29.26	AVG

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. Measurement Level = Reading level + Correct Factor

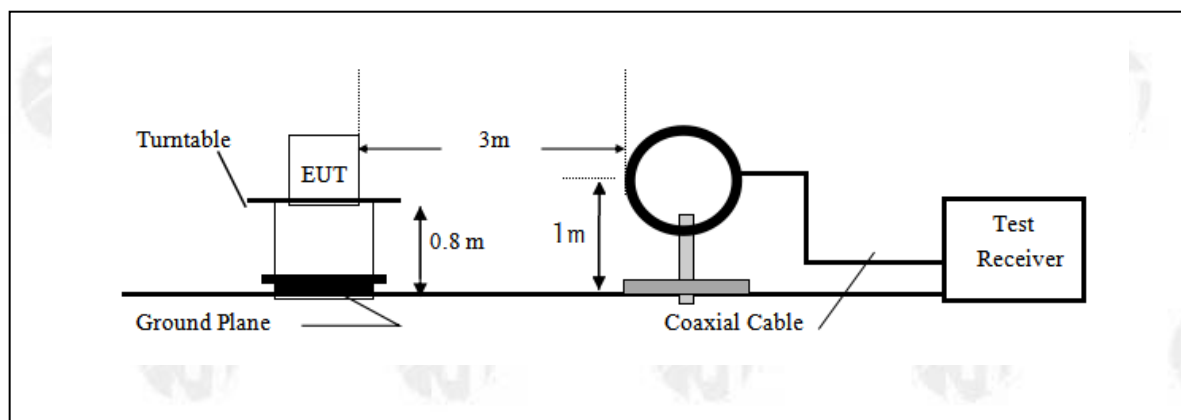
6. RADIATED EMISSION TEST

6.1. Measurement Procedure

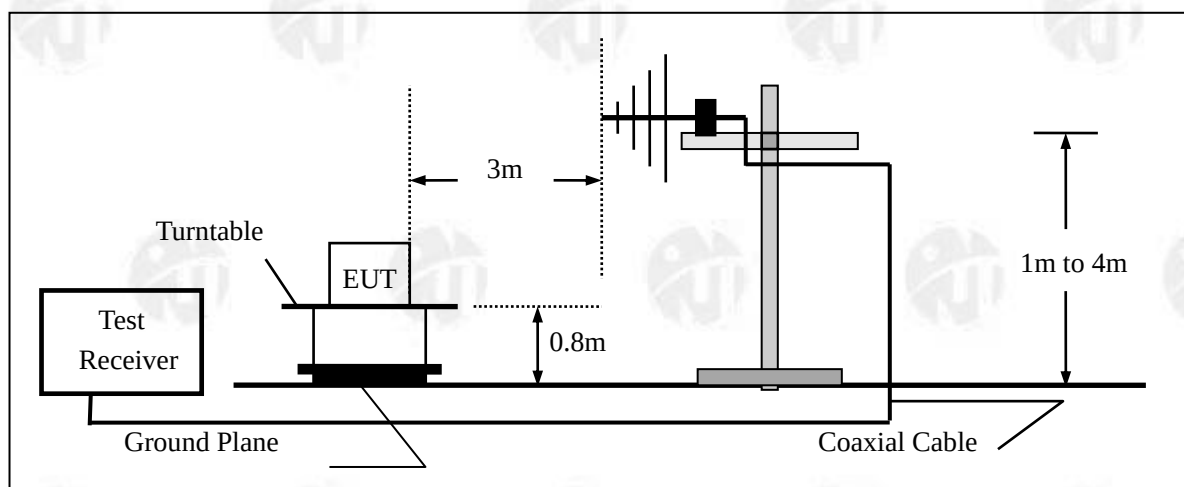
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW=200Hz for 9KHz to 150KHz,
RBW=9kHz for 150KHz to 30MHz,
RBW=120KHz for 30MHz to 1GHz
VBW $\geq 3 \times$ RBW
Sweep = auto
Detector function = QP
Trace = max hold

6.2. Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	$2400 / F(KHz)$	300m	$10000 * 2400/F(KHz)$	$20\log 2400/F(KHz) + 80$
0.490 – 1.705	$24000 / F(KHz)$	30m	$100 * 24000/F(KHz)$	$20\log 24000/F(KHz) + 40$
1.705 – 30.00	30	30m	$100 * 30$	$20\log 30 + 40$
30.0 – 88.0	100	3m	100	$20\log 100$
88.0 – 216.0	150	3m	150	$20\log 150$
216.0 – 960.0	200	3m	200	$20\log 200$
Above 960.0	500	3m	500	$20\log 500$



15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.



6.4.Measurement Result

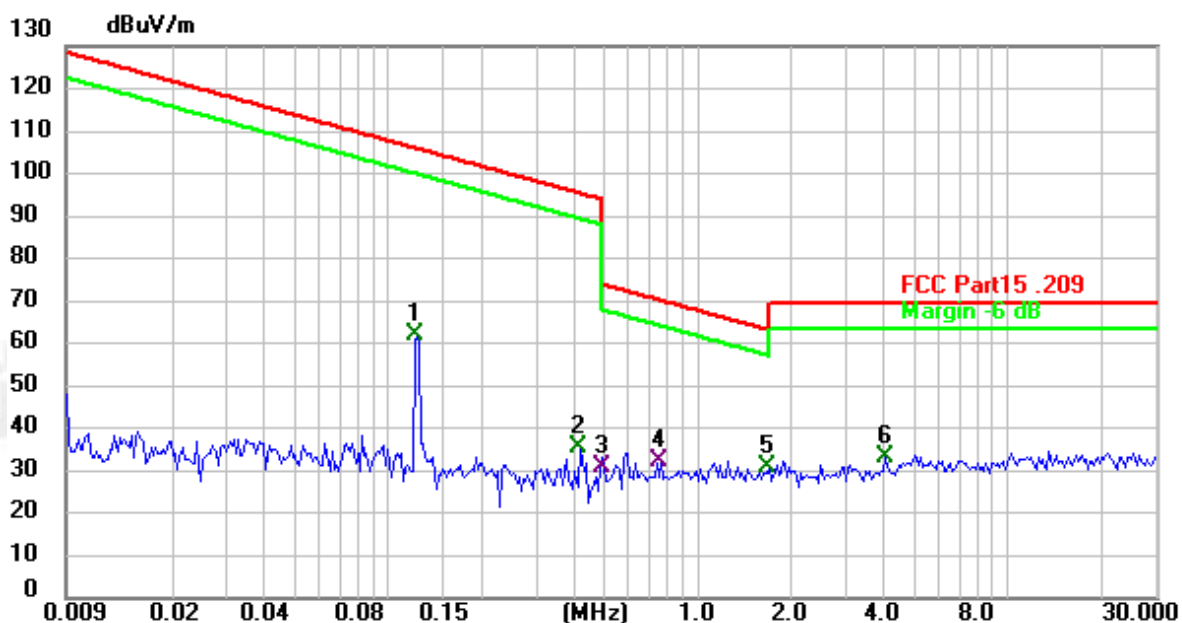
Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Pol.	Coplanar
Test Voltage :	AC 120V/60Hz	Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1226	61.56	0.26	61.82	105.83	-44.01	AVG
2	0.4140	35.24	0.18	35.42	95.26	-59.84	AVG
3	0.4949	30.92	0.16	31.08	73.71	-42.63	QP
4	0.7545	32.32	0.12	32.44	70.05	-37.61	QP
5 *	1.6983	30.52	0.15	30.67	63.00	-32.33	AVG
6	4.0128	32.74	0.34	33.08	69.54	-36.46	AVG

Note:

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

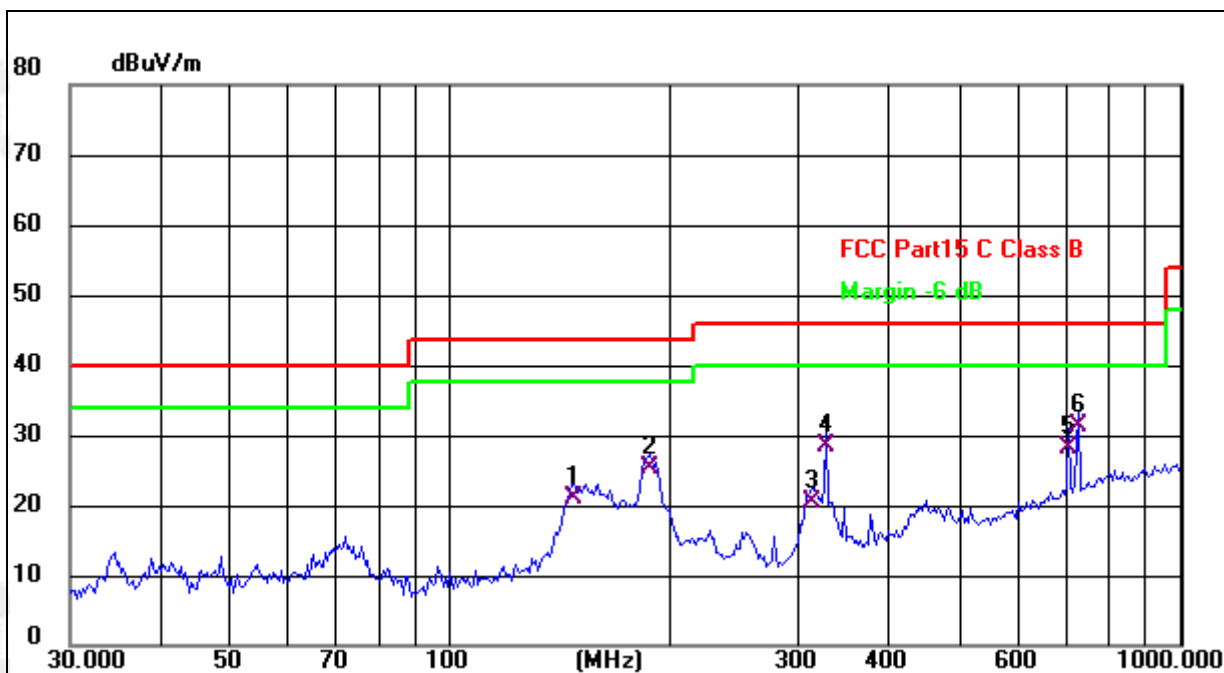
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



30MHz-1GHz:

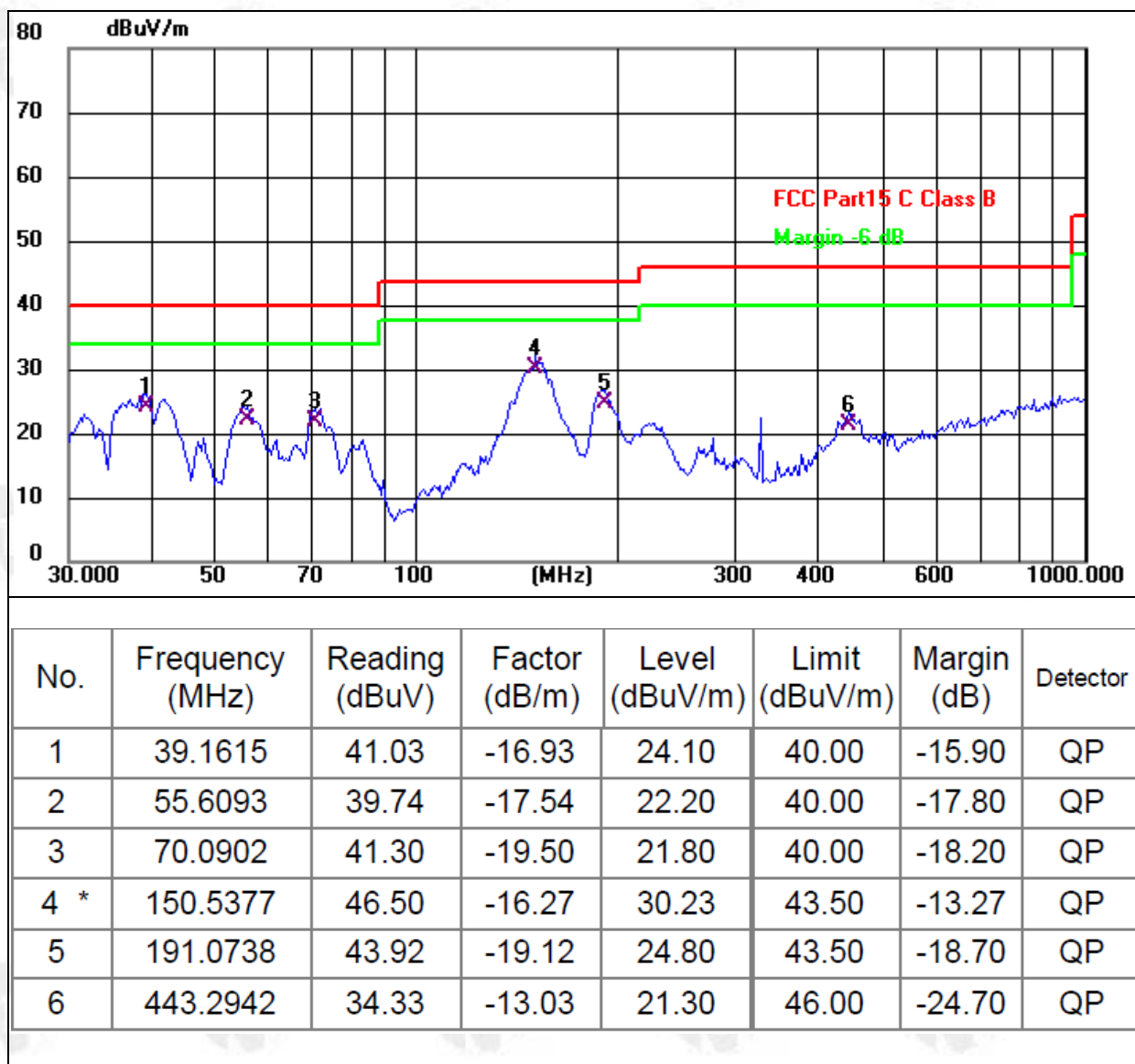
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Mode:	Model 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	147.4036	37.52	-16.42	21.10	43.50	-22.40	QP
2	187.0956	44.15	-18.95	25.20	43.50	-18.30	QP
3	312.1794	36.51	-16.11	20.40	46.00	-25.60	QP
4	327.8872	44.05	-15.75	28.30	46.00	-17.70	QP
5	704.2261	35.06	-6.96	28.10	46.00	-17.90	QP
6 *	724.2610	37.76	-6.56	31.20	46.00	-14.80	QP



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Mode:	Model 1



Remarks:

- 1.Final Level =Receiver Read level + 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. TEST PHOTOGRAPHS AND EUT PHOTOGRAPHS

Please see the attachment for details.

-----End of Report-----