



FCC TEST REPORT

FCC ID:2BA36-SEPB50

Applicant: Shenzhen Istyle Technology Co., Ltd
Address: Room D25, Floor 4, Building 533, Bagualing Industrial Park, Bagua 3 Rd, Futian District, Shenzhen China
Manufacturer: Dongguan Istyle Electronics Technology Co., Ltd
Address: 3F, Building E, Nan an Industrial Park, Fenggang, Dongguan, China
EUT: Power bank
Trade Mark: N/A
Model Number: SE-PB50
IS-H11, IS-AXD-114, IS-CK801, IS-AL01, IS-AL02, IS-H43C, IS-H45C, IS-H30C, IS-W026, IS-W027
Date of Receipt: Aug. 10, 2025
Test Date: Aug. 10, 2025 to Aug. 22, 2025
Date of Report: Aug. 22, 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 CFR Title 47 Part 15 Subpart C Section 15.231
ANSI C63.10:2013
Test Result: Pass
Report Number: DLE-250821005R

Prepared (Test Engineer): Randy Xie

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**

Report No.	Version	Description	Approved
DLE-250821005R	Rev.01	Initial issue of report	Aug. 22, 2025

**2. TEST SUMMARY**

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

NOTE:

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



2.1 TEST FACILITY

Shenzhen DL Testing Technology Co., Ltd.

Add. : 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 identifier: CN0118

2.2 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 %.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission (9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission (30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission (1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission (6GHz-40GHz)	U=5.0dB
5	Conducted Disturbance	U=3.2dB
6	RF Conducted Spurious Emission	U=2.2dB
7	RF Occupied Bandwidth	U=1.8MHz
8	Humidity Uncertainty	U=5.3%
9	Temperature Uncertainty	U=0.59°C



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Power bank
Model No.:	SE-PB50
Serial No.:	IS-H11, IS-AXD-114, IS-CK801, IS-AL01, IS-AL02, IS-H43C, IS-H45C, IS-H30C, IS-W026, IS-W027
Model Difference:	All the model are the same circuit and RF module, Only the model name different.
Hardware Version:	V 1.0
Software Version:	V 1.1
Operation Frequency:	115kHz-205kHz
Modulation Type:	ASK
Antenna Type:	Loop Coil Antenna
Antenna Gain:	0dBi
Ratings:	Type-C Input: 5V---3A, 9V---2A, 12V---1.5A Type-C Output: 5V---3A, 9V---2.2A, 12V---1.67A Wireless Output: 5W/7.5W/10W/15W
Battery Capacity:	10000mAh/3.85V/38.5Wh
Transmitting Mode:	Keep the EUT in continuously wireless charging mode



3.2 TEST MODE

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

a. EUT mode of AC/DC Adapter + Wireless charge output:

Test Modes:	Test Coil:	Description:
Mode 1	ANT 1	AC/DC Adapter (12V/1.5A) + EUT + Phone (Battery Status: <1%)
Mode 2		AC/DC Adapter (12V/1.5A) + EUT + Phone (Battery Status: 50%)
Mode 3		AC/DC Adapter (12V/1.5A)) + EUT + Phone (Battery Status: >98%)
Mode 4		AC/DC Adapter (9V/2A) + EUT + Phone (Battery Status: <1%)
Mode 5		AC/DC Adapter (9V/2A) + EUT + Phone (Battery Status: 50%)
Mode 6		AC/DC Adapter (9V/2A) + EUT + Phone (Battery Status: >98%)
Mode 7		AC/DC Adapter (5V/3A) + EUT + Phone (Battery Status: <1%)
Mode 8		AC/DC Adapter (5V/3A) + EUT + Phone (Battery Status: 50%)
Mode 9		AC/DC Adapter (5V/3A)) + EUT + Phone (Battery Status: >98%)

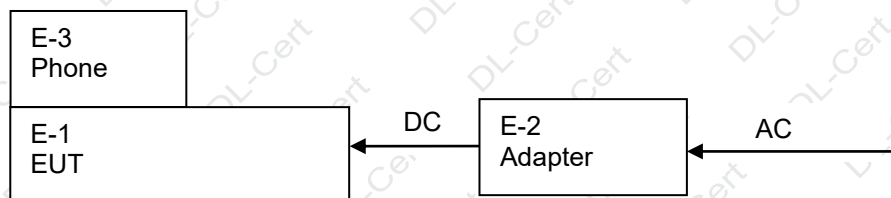
b. EUT mode of wireless charge output:

Test Modes:	Test Coil:	Description:
Mode 1a	ANT 1	EUT + Phone (Battery Status: <1%)
Mode 2a		EUT + Phone (Battery Status: 50%)
Mode 3a		EUT + Phone (Battery Status: >98%)

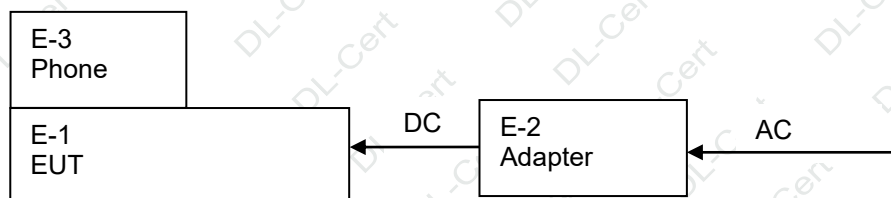


3.3 BLOCK DIAGRAM OF EUT CONFIGURATION

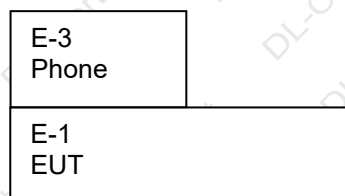
Conducted Emission



Radiated Emission



B:





3.4 TEST CONDITIONS

Temperature: 23~26°C

Relative Humidity: 54~63 %

3.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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	Power bank	N/A	SE-PB50	N/A	EUT
E-2	AC/DC Adapter	SAMSUNG	EP-T4510	N/A	Auxiliary
E-3	Phone	APPLE	iPhone 13 Pro	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	DC cable unshielded

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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
2	EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
3	LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas -peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

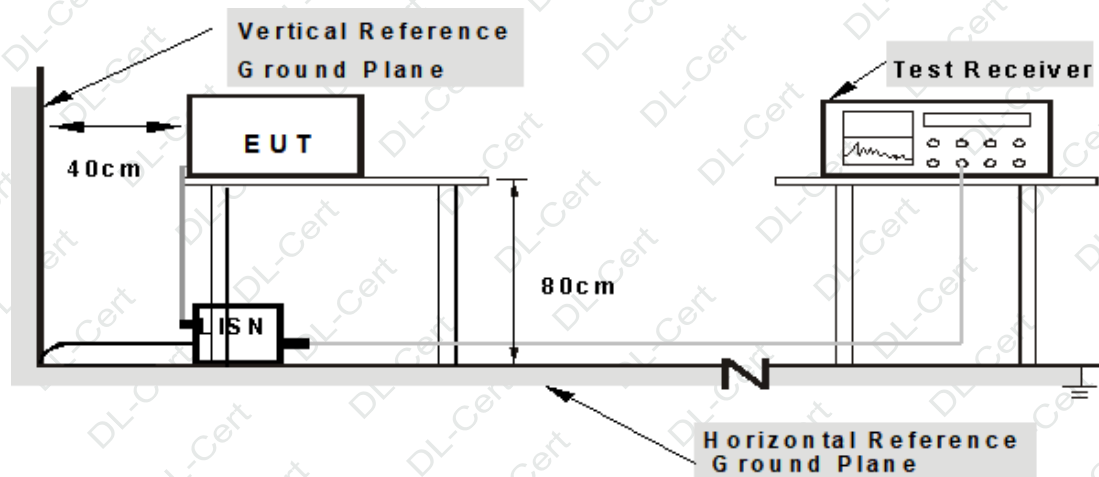
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 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

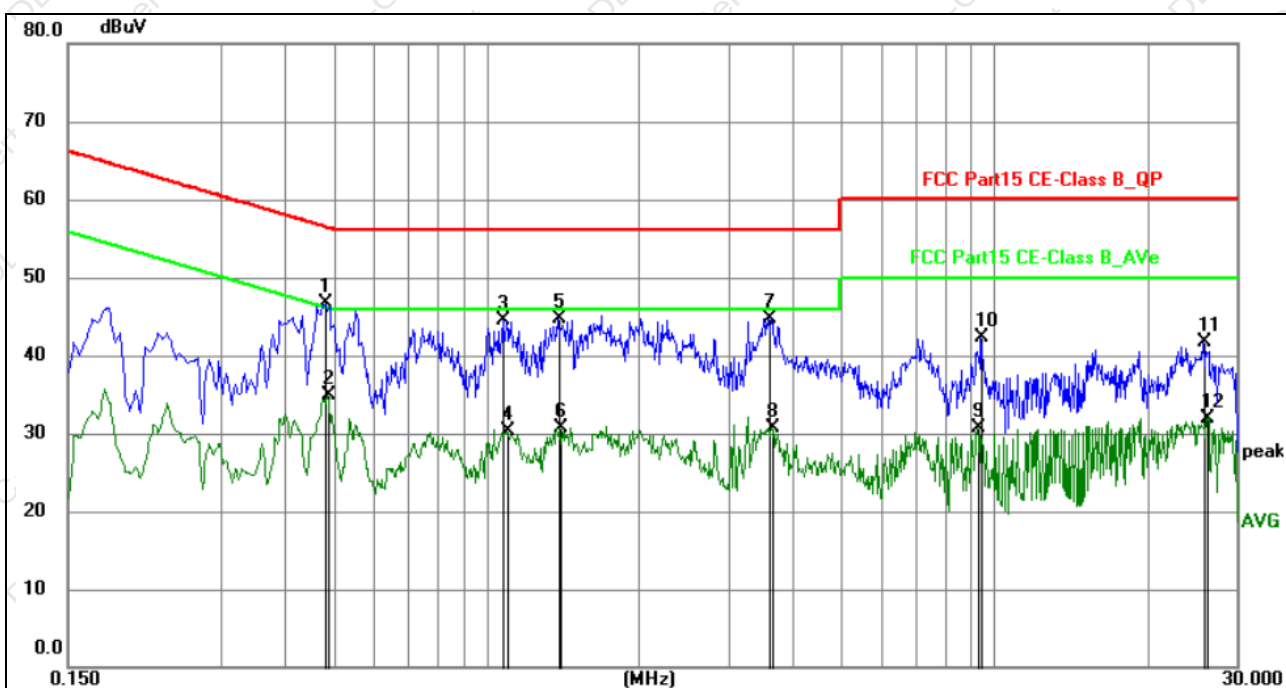
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULT

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



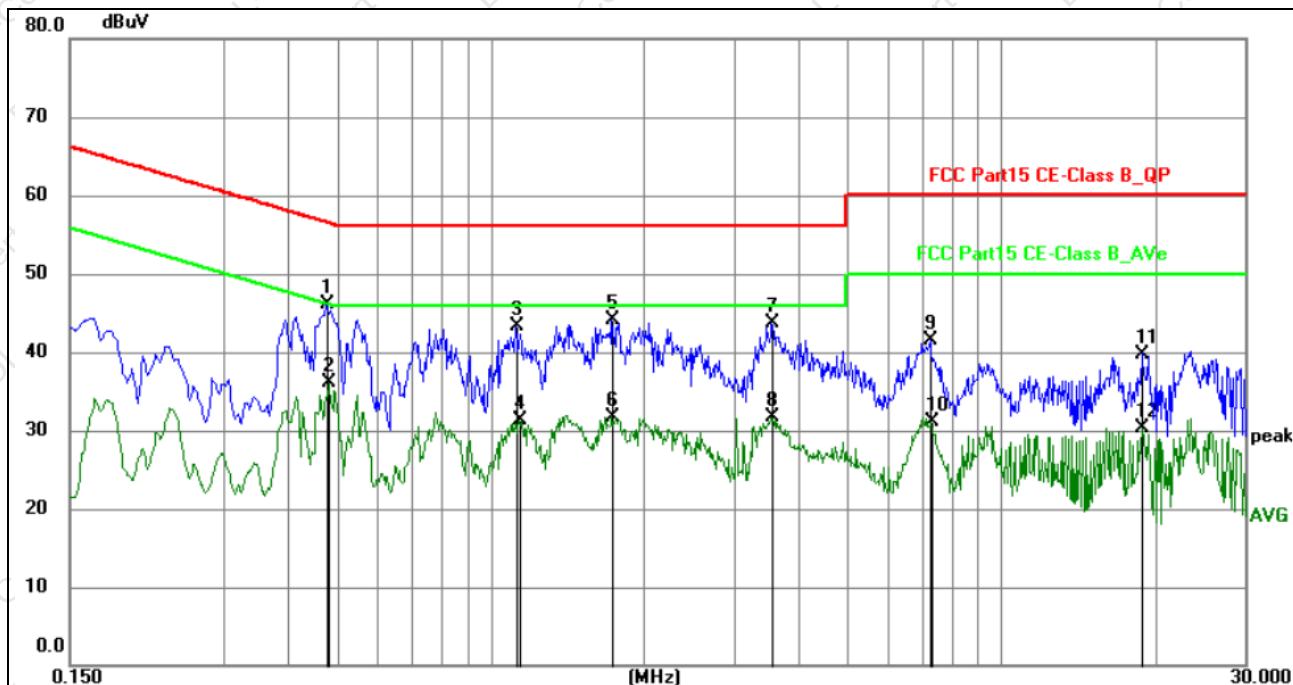
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4830	26.40	20.30	46.70	56.29	-9.59	QP	P	
2	0.4875	14.57	20.30	34.87	46.21	-11.34	AVG	P	
3	1.0769	24.20	20.30	44.50	56.00	-11.50	QP	P	
4	1.0949	9.97	20.30	30.27	46.00	-15.73	AVG	P	
5	1.3829	24.43	20.31	44.74	56.00	-11.26	QP	P	
6	1.4008	10.44	20.31	30.75	46.00	-15.25	AVG	P	
7	3.5925	24.40	20.34	44.74	56.00	-11.26	QP	P	
8	3.6465	10.45	20.34	30.79	46.00	-15.21	AVG	P	
9	9.2760	10.17	20.44	30.61	50.00	-19.39	AVG	P	
10	9.4155	21.84	20.44	42.28	60.00	-17.72	QP	P	
11	25.7280	21.11	20.64	41.75	60.00	-18.25	QP	P	
12	26.2545	11.21	20.66	31.87	50.00	-18.13	AVG	P	

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. Final Level = Reading level + Correct Factor.
4. Correct Factor = Loss factor + Cable loss factor + limiter factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 1 recorded.



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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4785	25.89	20.31	46.20	56.37	-10.17	QP	P	
2	0.4830	15.75	20.30	36.05	46.29	-10.24	AVG	P	
3	1.1219	23.00	20.30	43.30	56.00	-12.70	QP	P	
4	1.1354	11.10	20.30	31.40	46.00	-14.60	AVG	P	
5	1.7294	23.83	20.30	44.13	56.00	-11.87	QP	P	
6	1.7294	11.50	20.30	31.80	46.00	-14.20	AVG	P	
7	3.5565	23.32	20.33	43.65	56.00	-12.35	QP	P	
8	3.5565	11.34	20.33	31.67	46.00	-14.33	AVG	P	
9	7.2600	21.10	20.40	41.50	60.00	-18.50	QP	P	
10	7.3095	10.71	20.40	31.11	50.00	-18.89	AVG	P	
11	18.8205	19.27	20.53	39.80	60.00	-20.20	QP	P	
12	18.8205	9.82	20.53	30.35	50.00	-19.65	AVG	P	

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. Final Level = Reading level + Correct Factor.
4. Correct Factor = Liss factor+ Cable loss factor + limiter factor.
5. Margin = Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 1 recorded.

**5. RADIATED EMISSION MEASUREMENT**

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

5.1 RADIATED EMISSION LIMITS**Limits for frequency below 30MHz**

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	$2400/F(\text{kHz})$	300	Quasi-peak Value
0.490-1.705	$24000/F(\text{kHz})$	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

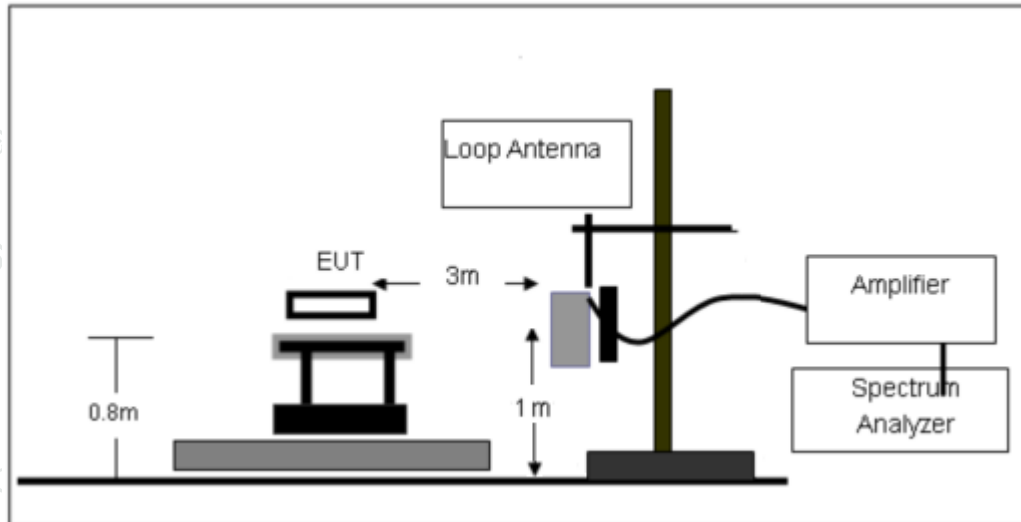
Limits for frequency Above 30MHz

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
	74.00	Peak Value

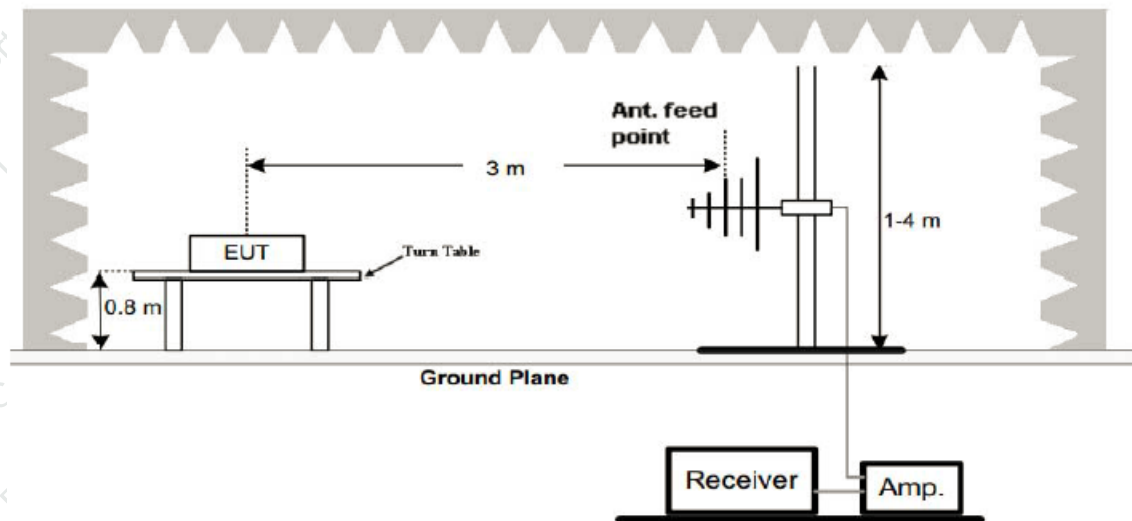


5.2 ANECHOIC CHAMBER TEST SETUP DIAGRAM

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



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.



5.3 TEST PROCEDURE

Below 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving loop antenna and in the center of a loop antenna, which was mounted on the top of a variable-height antenna tower.
- For each suspected emission, the EUT was arranged to its worst case, the height of interference-receiving loop antenna centre is 1 meter above the ground, and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- Both Coaxial (loop plane perpendicular to the ground plane and to the measurement axis) and coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis) polarizations of the antenna are set to make the measurement.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

30MHz-1GHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

5.4 DEVIATION FROM TEST STANDARD

No deviation



5.5 TEST RESULT

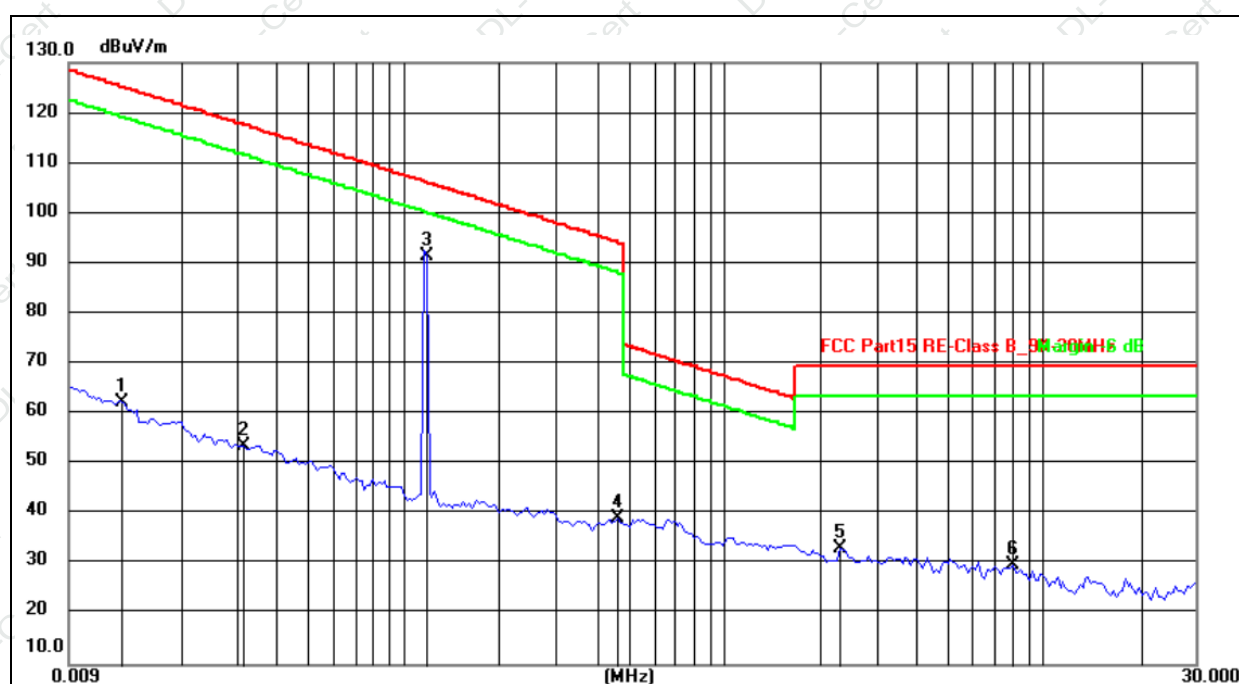
Measurement data:

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

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

A: 9 kHz~30 MHz

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coaxial
Test Voltage :	DC 12V From Adapter AC 120V/60Hz	Test Mode :	Mode 1



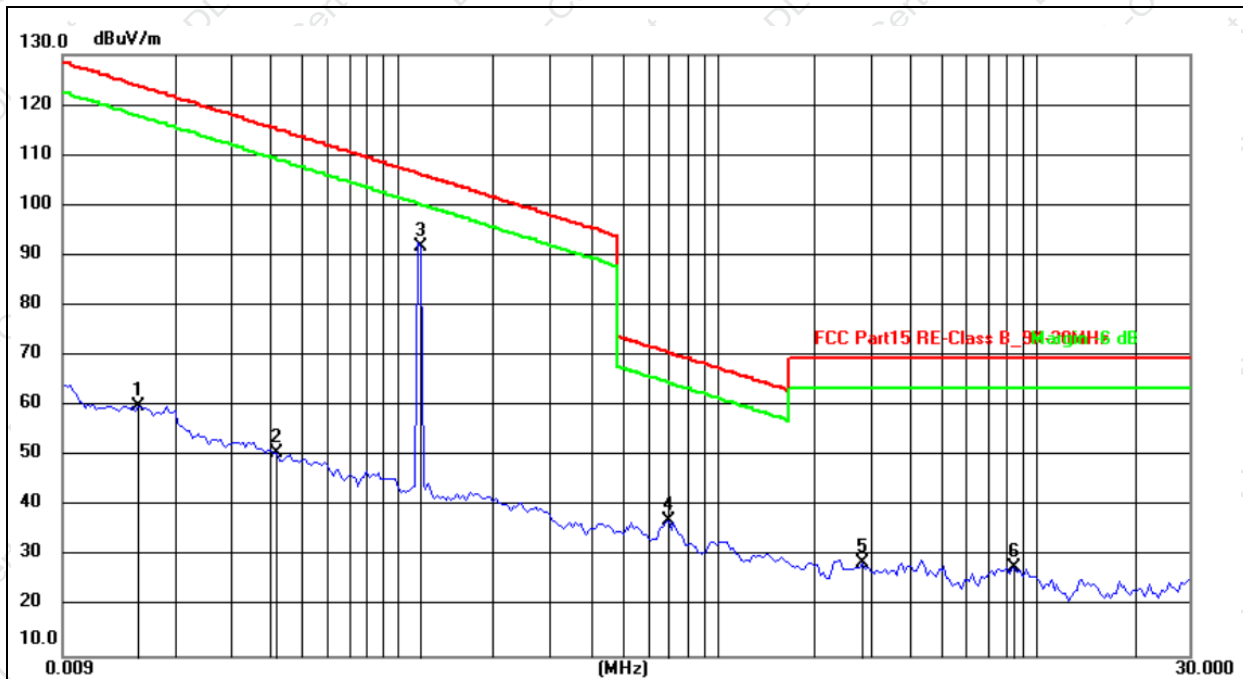
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0131	41.84	20.52	62.36	125.26	-62.90	peak
2	0.0316	33.57	20.18	53.75	117.61	-63.86	peak
3	0.1160	71.67	19.86	91.53	106.32	-14.79	peak
4	0.4692	18.98	20.19	39.17	94.18	-55.01	peak
5	2.3302	13.45	19.75	33.20	69.54	-36.34	peak
6	8.0288	10.76	19.19	29.95	69.54	-39.59	peak

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.



Temperature :	26°C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Coplanar
Test Voltage :	DC 12V From Adapter 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	0.0154	39.57	20.50	60.07	123.85	-63.78	peak
2	0.0420	30.83	19.94	50.77	115.14	-64.37	peak
3	0.1160	71.87	19.86	91.73	106.32	-14.59	peak
4	0.7043	16.75	20.38	37.13	70.65	-33.52	peak
5	2.8542	9.02	19.67	28.69	69.54	-40.85	peak
6	8.5324	8.81	19.14	27.95	69.54	-41.59	peak

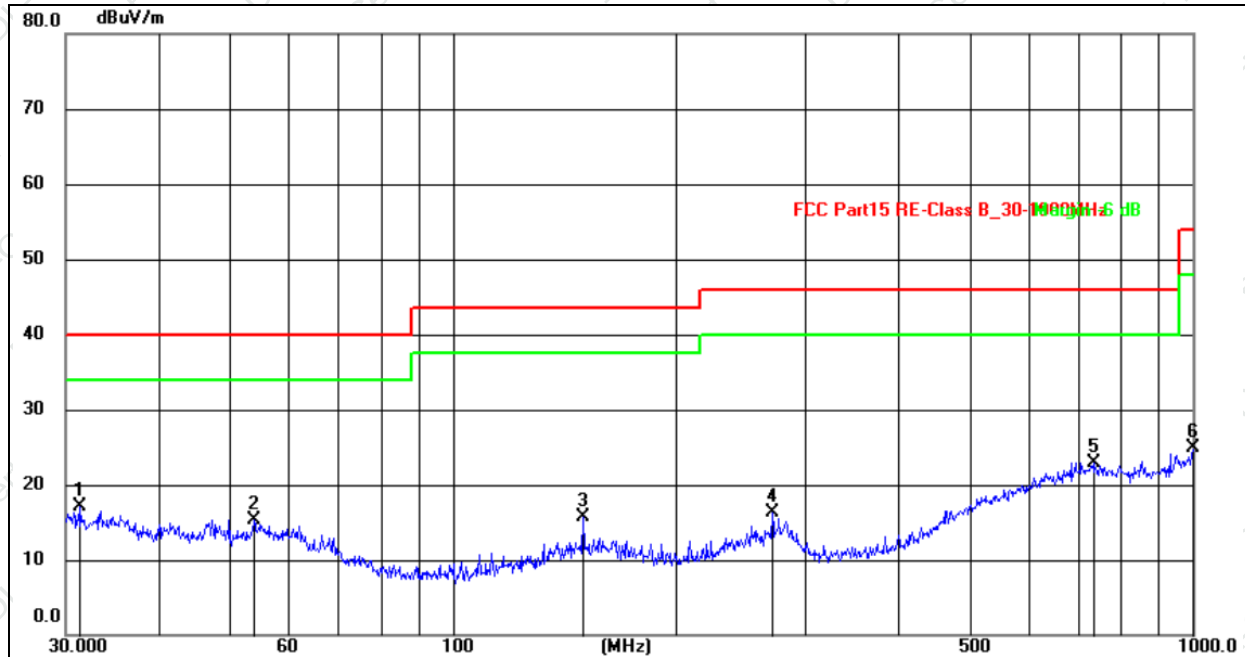
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.



30MHz-1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V From Adapter AC 120V/60Hz	Test Mode:	Mode 1



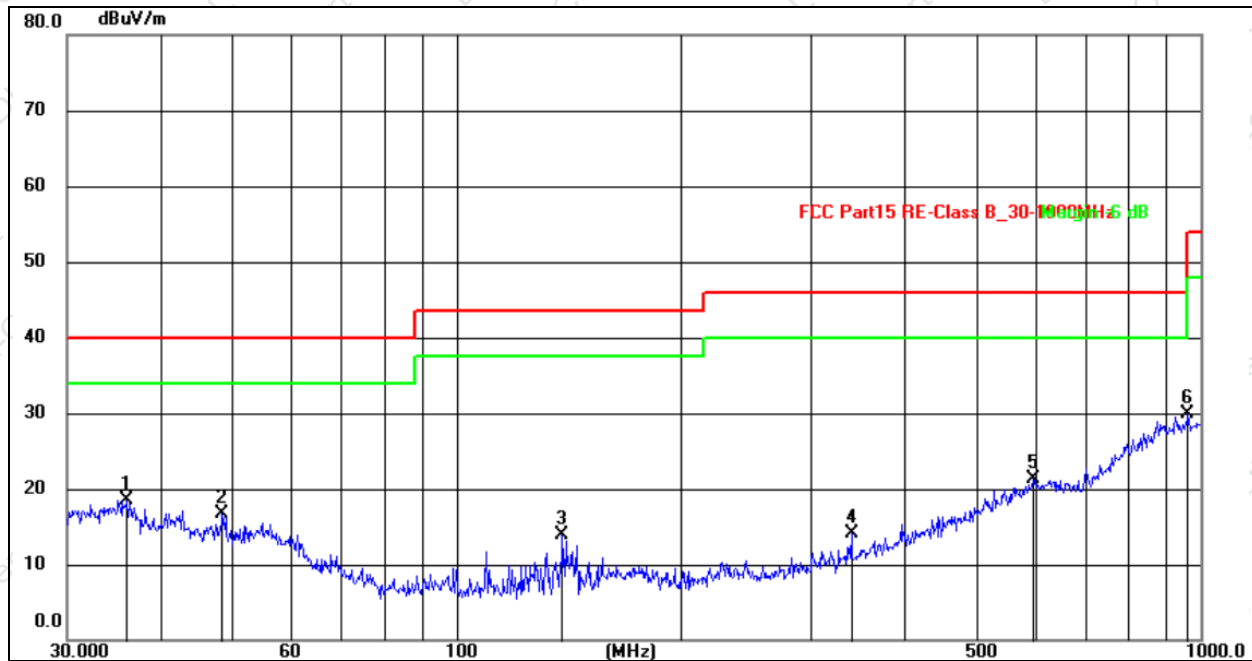
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.3992	31.51	-14.33	17.18	40.00	-22.82	QP
2	53.8817	29.39	-14.01	15.38	40.00	-24.62	QP
3	150.0108	31.97	-16.35	15.62	43.50	-27.88	QP
4	270.3748	30.92	-14.53	16.39	46.00	-29.61	QP
5	734.4913	29.49	-6.51	22.98	46.00	-23.02	QP
6	1000.0000	29.38	-4.56	24.82	54.00	-29.18	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 1 recorded.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V From Adapter 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	36.1271	35.86	-17.33	18.53	40.00	-21.47	QP
2	48.5015	33.79	-17.13	16.66	40.00	-23.34	QP
3	138.8734	34.63	-20.77	13.86	43.50	-29.64	QP
4	339.5887	30.60	-16.56	14.04	46.00	-31.96	QP
5	597.2234	28.70	-7.43	21.27	46.00	-24.73	QP
6	962.1622	30.00	-0.11	29.89	54.00	-24.11	QP

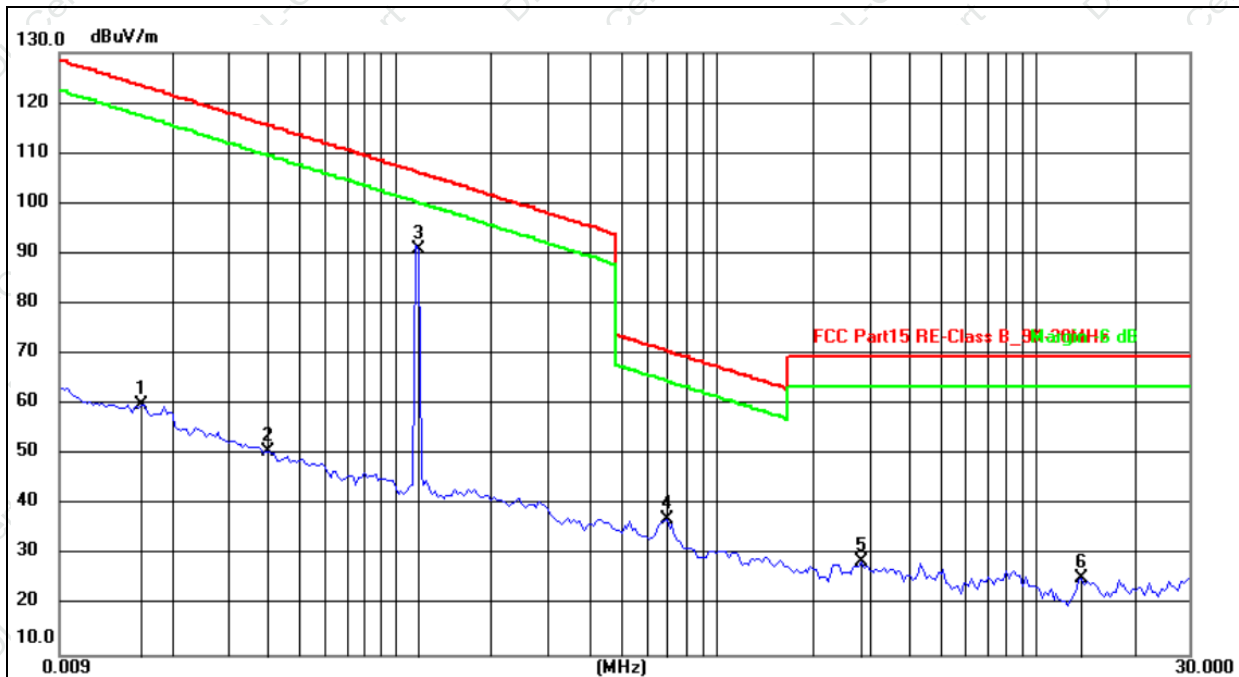
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 1 recorded.



B: 9 kHz~30 MHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Coaxial
Test Voltage:	DC 3.85V	Test Mode:	Mode 1a



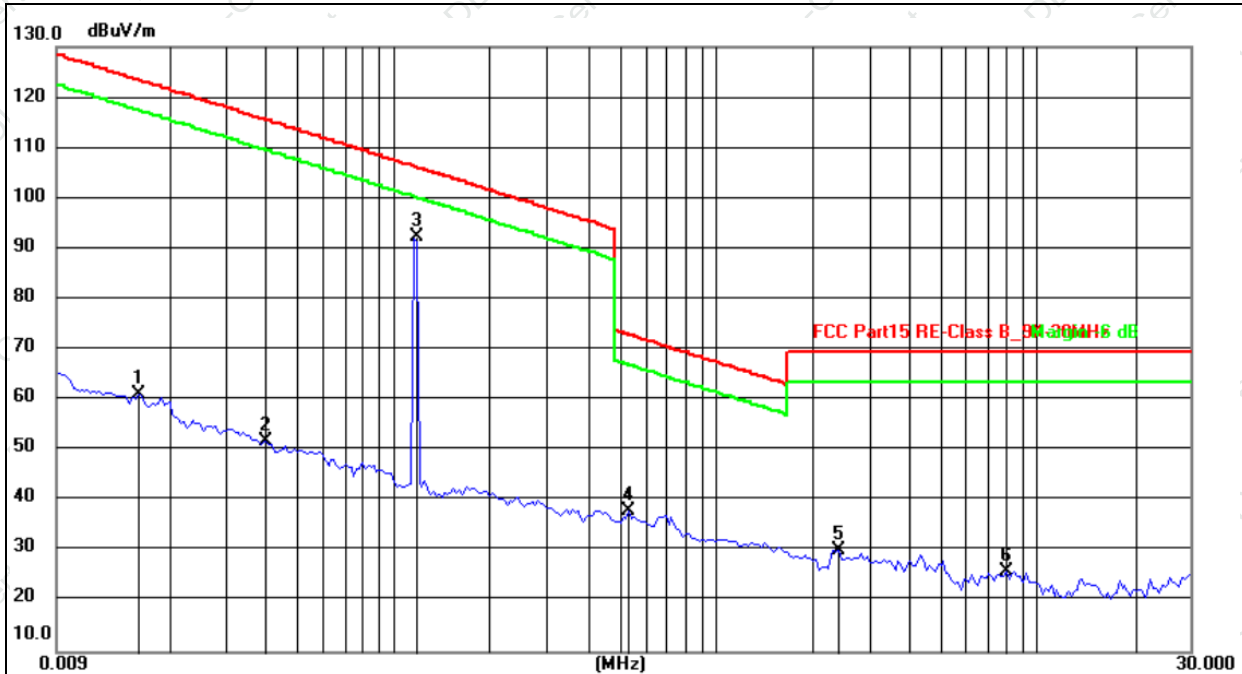
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0160	39.57	20.49	60.06	123.52	-63.46	peak
2	0.0403	30.81	19.98	50.79	115.50	-64.71	peak
3	0.1160	70.93	19.86	90.79	106.32	-15.53	peak
4	0.7043	16.75	20.38	37.13	70.65	-33.52	peak
5	2.8542	9.02	19.67	28.69	69.54	-40.85	peak
6	13.8818	6.50	18.93	25.43	69.54	-44.11	peak

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Coplanar
Test Voltage:	DC 3.85V	Test Mode:	Mode 1a



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0160	40.57	20.49	61.06	123.52	-62.46	peak
2	0.0403	31.81	19.98	51.79	115.50	-63.71	peak
3	0.1160	72.35	19.86	92.21	106.32	-14.11	peak
4	0.5410	17.70	20.23	37.93	72.94	-35.01	peak
5	2.4266	10.52	19.73	30.25	69.54	-39.29	peak
6	8.0288	6.76	19.19	25.95	69.54	-43.59	peak

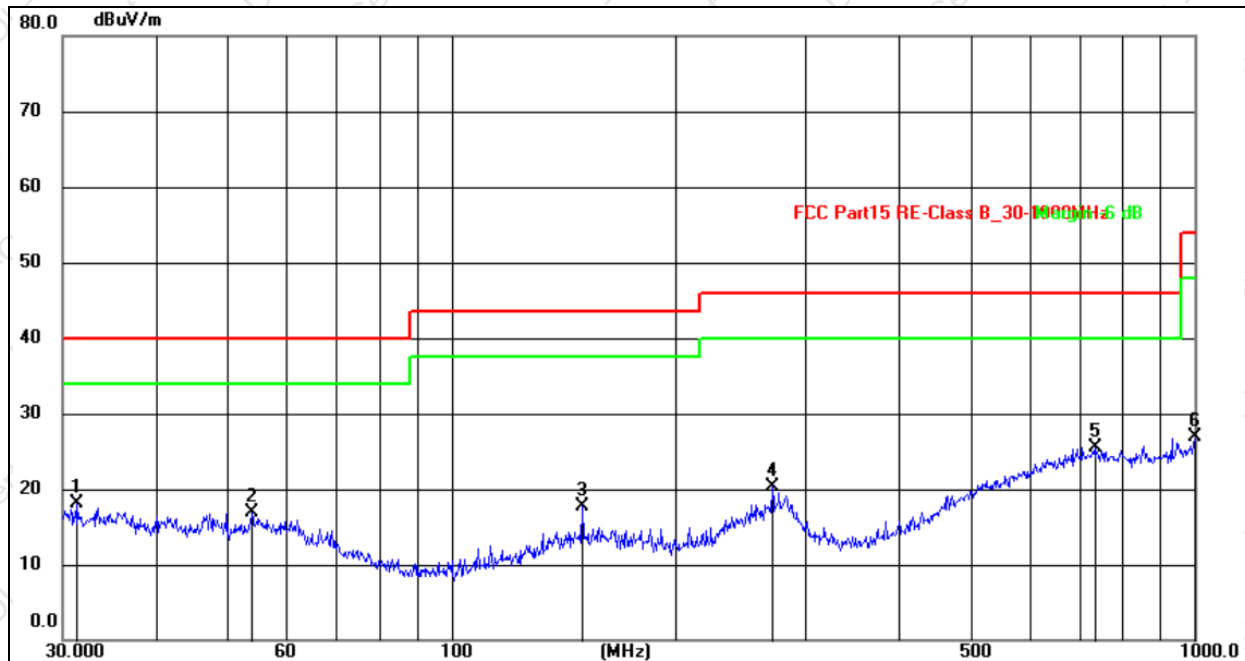
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.



30MHz-1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Test Mode:	Mode 1a



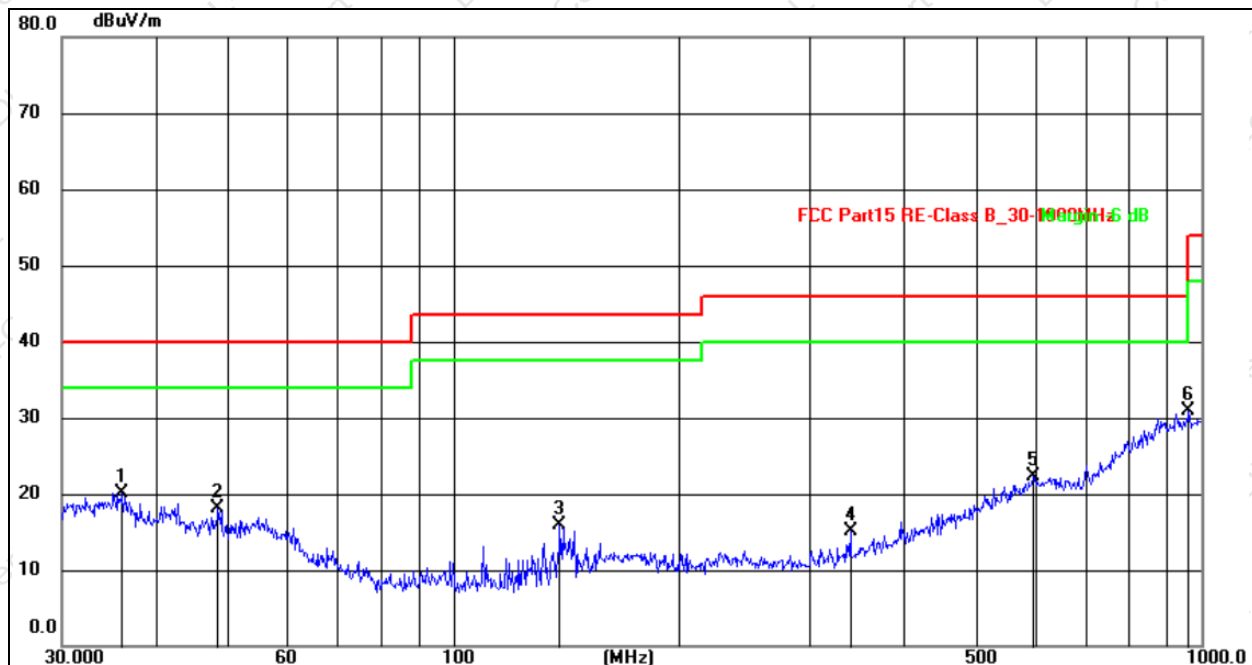
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.3992	32.51	-14.33	18.18	40.00	-21.82	QP
2	53.8817	30.89	-14.01	16.88	40.00	-23.12	QP
3	150.0107	33.97	-16.35	17.62	43.50	-25.88	QP
4	270.3747	34.92	-14.53	20.39	46.00	-25.61	QP
5	734.4913	31.99	-6.51	25.48	46.00	-20.52	QP
6	1000.0000	31.38	-4.56	26.82	54.00	-27.18	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 1a recorded.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.85V	Test Mode:	Mode 1a



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.1269	37.36	-17.33	20.03	40.00	-19.97	QP
2	48.5015	35.29	-17.13	18.16	40.00	-21.84	QP
3	138.8734	36.63	-20.77	15.86	43.50	-27.64	QP
4	339.5887	31.60	-16.56	15.04	46.00	-30.96	QP
5	597.2232	29.70	-7.43	22.27	46.00	-23.73	QP
6	962.1621	31.00	-0.11	30.89	54.00	-23.11	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 1a recorded.



6. 20DB BANDWIDTH TEST

6.1 TEST PROCEDURE

1. Se span = 1.5 ~ 5 times OBW.
2. Set RBW = 1%~5% OBW.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

6.2 LIMIT

N/A

6.3 TEST SETUP



6.4 DEVIATION FROM STANDARD

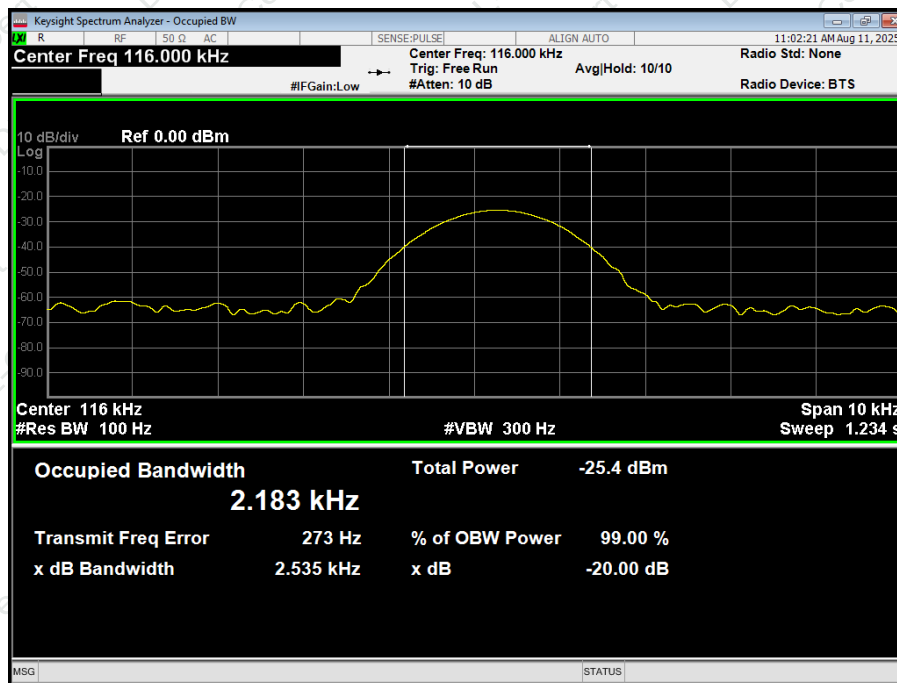
No deviation.



6.5 TEST RESULT

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.85V

Test Coil	Frequency (kHz)	20dB Bandwidth (kHz)	Result
ANT 1	116.00	2.535	Pass





7. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	
The antenna is Loop Coil antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details	



8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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