



TEST REPORT

FCC ID: 2A8F6-PS151032

Applicant: ShenZhenShiDiNengKeJiYouXianGongSi
Address: ShenZhenShiNanShanQuXiLiJieDaoYangGuangSheQuSongBaiLu1008HaoGangHongJi
GaoXinZhiNengChanYeYuanADong202
Manufacturer: ShenZhenShiDiNengKeJiYouXianGongSi
Address: ShenZhenShiNanShanQuXiLiJieDaoYangGuangSheQuSongBaiLu1008HaoGangHongJi
GaoXinZhiNengChanYeYuanADong202
EUT: power station
Trade Mark: CHASING
Model Number: PS151032
Date of Receipt: Jul. 29, 2022
Test Date: Jul. 29, 2022 – Aug. 17, 2022
Date of Report: Aug. 17, 2022
Prepared By: Shenzhen DL Testing Technology Co., Ltd.
Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong
Street, Longgang District, Shenzhen, Guangdong, China
Applicable Standards: FCC PART 15 Subpart C
ANSI C63.10:2013
Test Result: Pass
Report Number: DL-20220817031E

Prepared (Engineer): Lily Fu
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.

**TABLE OF CONTENT**

Test Report Declaration	Page
1. VERSION	3
2. TEST SUMMARY	3
3. GENERAL INFORMATION	4
4. TEST INSTRUMENT USED	5
5. CONDUCTED EMISSION TEST	6
6. RADIATION EMISSION TEST	10
7. BANDWIDTH TEST	18
8. SETUP PHOTOGRAPHS	19
9. EUT PHOTOGRAPHS	19

**1. VERSION**

Version No.	Date	Description
00	Aug. 17, 2022	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

(2) Test Facility: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone,
Baolong Street, Longgang District, Shenzhen, Guangdong, China



3. GENERAL INFORMATION

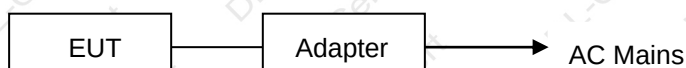
3.1 Description of Device (EUT)

Product Name: power station
Trade Mark: CHASING
Model No.: PS151032
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: Input: DC 28.8V from battery
Wireless Output: 15W(MAX)
Model No.: PSY2528000
Adapter1: Input: 100-240V~ 50/60Hz 3.0A
Output: DC 25.2V/8.0A 201.6W
Model No.: YHY-24010000
Adapter2: Input: 100-240V~ 50/60Hz 4.0A
Output: DC 24V/10A

3.2 Tested System Details

None.

3.3 Block Diagram of Test Set-up



3.4 Test Mode Description

Mode1. Wireless Charge Mode

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

3.5 Test Auxiliary Equipment

Mobile phone (Provide by test lab):

Manufacturer: SAMSUNG

Model: Galaxy S21 5G

3.6 Test Uncertainty

Conducted Emission Uncertainty(150KHz-30MHz) : $\pm 2.56\text{dB}$

Radiated Emission Uncertainty(9KHz-1GHz) : $\pm 3.24\text{dB}$

**4. TEST INSTRUMENT USED****For Conducted Emission Test (843 Shielded Room)**

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
843 Shielded Room	ChengYu	843 Room	843	Nov. 25, 2019	Nov. 24, 2022
EMI Receiver	R&S	ESR	101421	Dec. 07, 2021	Dec. 06, 2022
LISN	R&S	ENV216	102417	Dec. 07, 2021	Dec. 06, 2022
Clamp	COM-POWER	CLA-050	431071	Dec. 05, 2021	Dec. 04, 2022
3-Loop Antenna	DAZE	ZN30401	13021	Dec. 07, 2021	Dec. 06, 2022
ISN T8	Schwarzbeck	NTFM 8158	101135	Dec. 07, 2021	Dec. 06, 2022
ISN T5	Schwarzbeck	NTFM 8158	101136	Dec. 07, 2021	Dec. 06, 2022
843 Cable 1#	ChengYu	CE Cable	001	Dec. 07, 2021	Dec. 06, 2022
843 Cable 1#	ChengYu	CE Cable	002	Dec. 07, 2021	Dec. 06, 2022

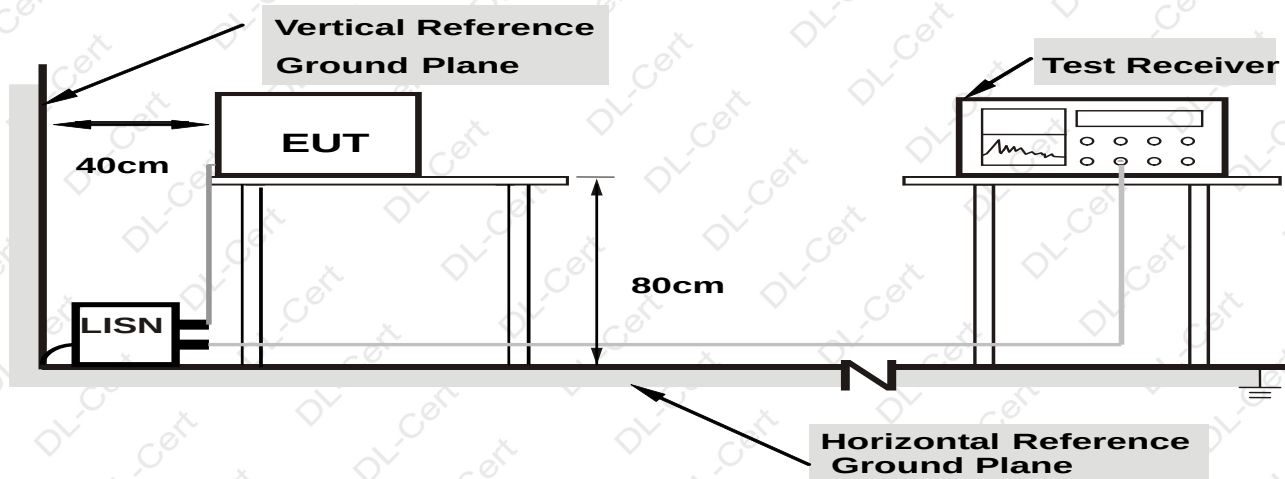
For Radiated Emission Test (966 chamber)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
966 Chamber	ChengYu	966 Room	966	Nov. 25, 2019	Nov. 24, 2022
Spectrum Analyzer	Agilent	E4408B	MY50140780	Dec. 07, 2021	Dec. 06, 2022
EMI Receiver	R&S	ESRP7	101393	Dec. 07, 2021	Dec. 06, 2022
Amplifier	Schwarzbeck	BBV9743B	00153	Dec. 07, 2021	Dec. 06, 2022
Amplifier	EMEC	EM01G8GA	00270	Dec. 07, 2021	Dec. 06, 2022
Broadband Trilog Antenna	Schwarzbeck	VULB9162	00306	Nov. 28, 2021	Nov. 27, 2022
Horn Antenna	Schwarzbeck	BBHA9120D	02139	Nov. 28, 2021	Nov. 27, 2022
Loop Antenna	ZHINAN	ZN30900A	/	Nov. 28, 2021	Nov. 27, 2022
966 Cable 1#	ChengYu	966	004	Dec. 07, 2021	Dec. 06, 2022
966 Cable 2#	ChengYu	966	003	Dec. 07, 2021	Dec. 06, 2022

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 B

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 B 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 C63.4** 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

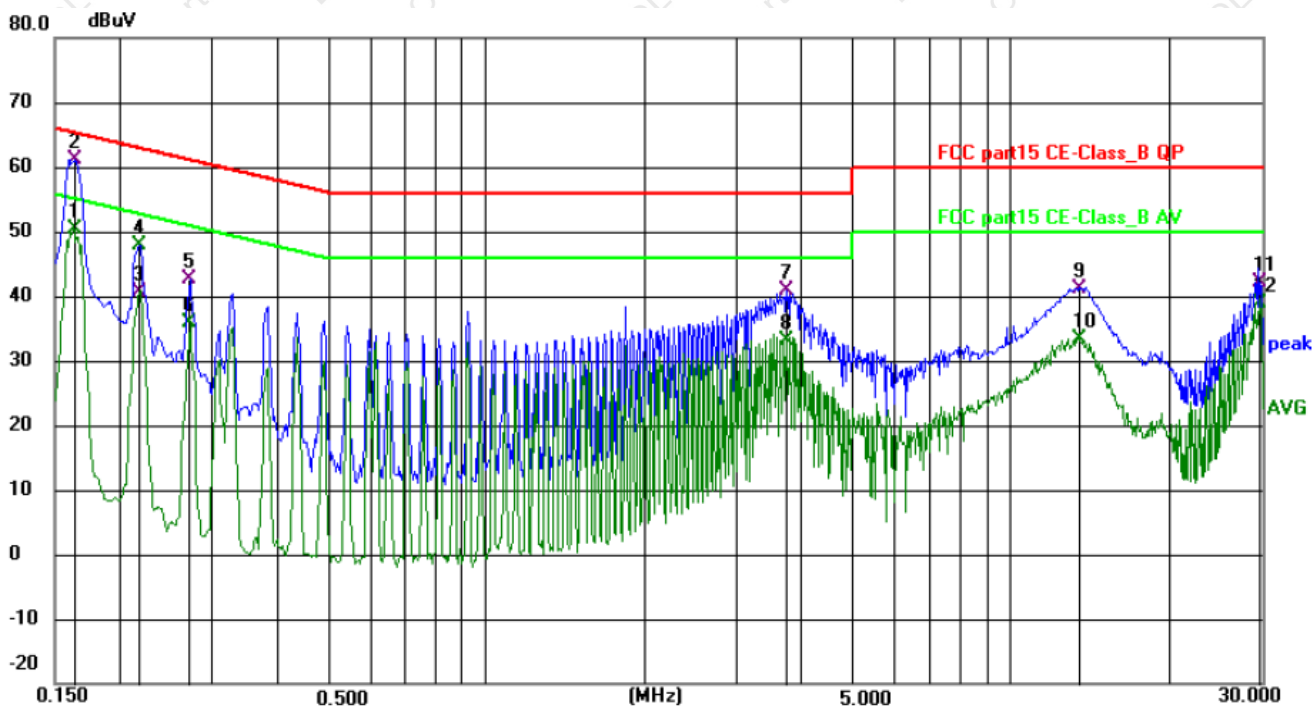
PASS

Please refer to the following page.



Conducted Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Line
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

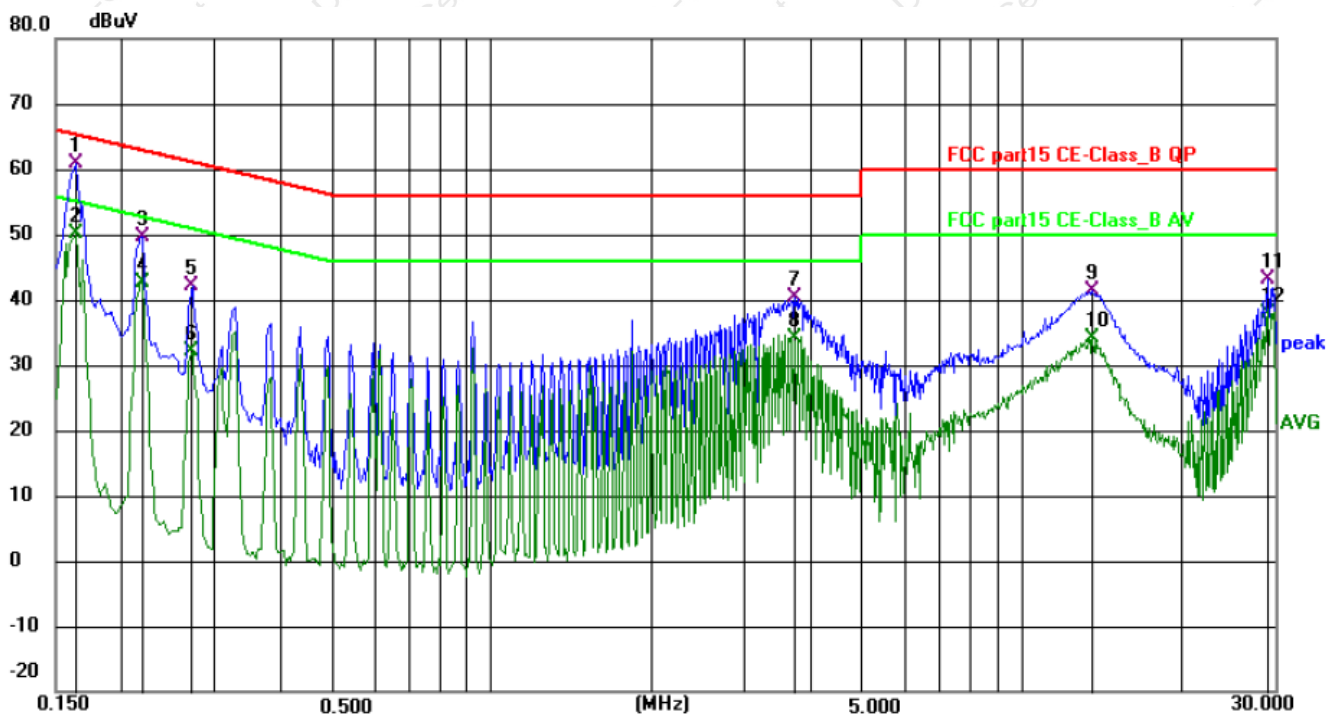


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.163200	40.21	10.23	50.44	55.30	-4.86	AVG	P	
2 *	0.163200	50.82	10.22	61.04	65.28	-4.24	QP	P	
3	0.217300	31.25	9.42	40.67	62.92	-22.25	QP	P	
4	0.217300	38.38	9.42	47.80	52.92	-5.12	AVG	P	
5	0.271400	33.33	9.19	42.52	61.07	-18.55	QP	P	
6	0.271400	26.60	9.19	35.79	51.07	-15.28	AVG	P	
7	3.732000	31.63	9.34	40.97	56.00	-15.03	QP	P	
8	3.732000	23.75	9.34	33.09	46.00	-12.91	AVG	P	
9	13.519500	31.19	10.06	41.25	60.00	-18.75	QP	P	
10	13.519500	23.36	10.06	33.42	50.00	-16.58	AVG	P	
11	29.724000	31.19	10.89	42.08	60.00	-17.92	QP	P	
12	29.724000	28.02	10.89	38.91	50.00	-11.09	AVG	P	



Conducted Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Neutral
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



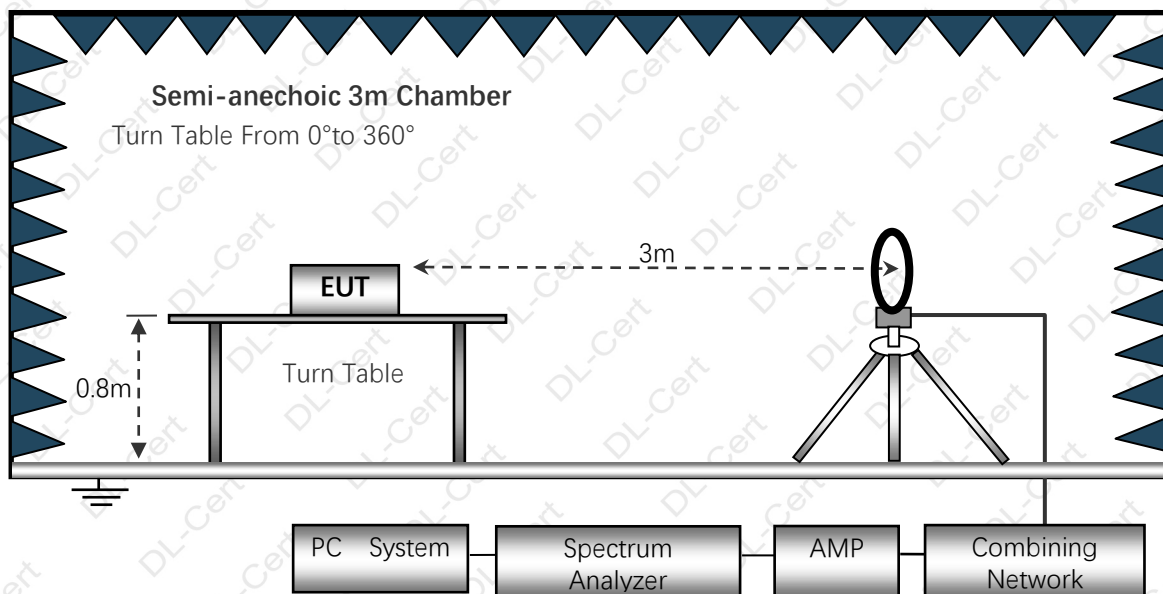
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.163500	50.89	9.94	60.83	65.28	-4.45	QP	P	
2	0.163500	40.12	9.94	50.06	55.28	-5.22	AVG	P	
3	0.217400	40.83	8.89	49.72	62.92	-13.20	QP	P	
4	0.217400	33.83	8.89	42.72	52.92	-10.20	AVG	P	
5	0.271400	33.15	8.99	42.14	61.07	-18.93	QP	P	
6	0.271400	23.16	8.99	32.15	51.07	-18.92	AVG	P	
7	3.727500	30.50	9.81	40.31	56.00	-15.69	QP	P	
8	3.727500	24.24	9.81	34.05	46.00	-11.95	AVG	P	
9	13.618400	31.12	10.22	41.34	60.00	-18.66	QP	P	
10	13.618400	23.86	10.22	34.08	50.00	-15.92	AVG	P	
11	29.116400	32.00	11.01	43.01	60.00	-16.99	QP	P	
12	29.116400	26.76	11.01	37.77	50.00	-12.23	AVG	P	



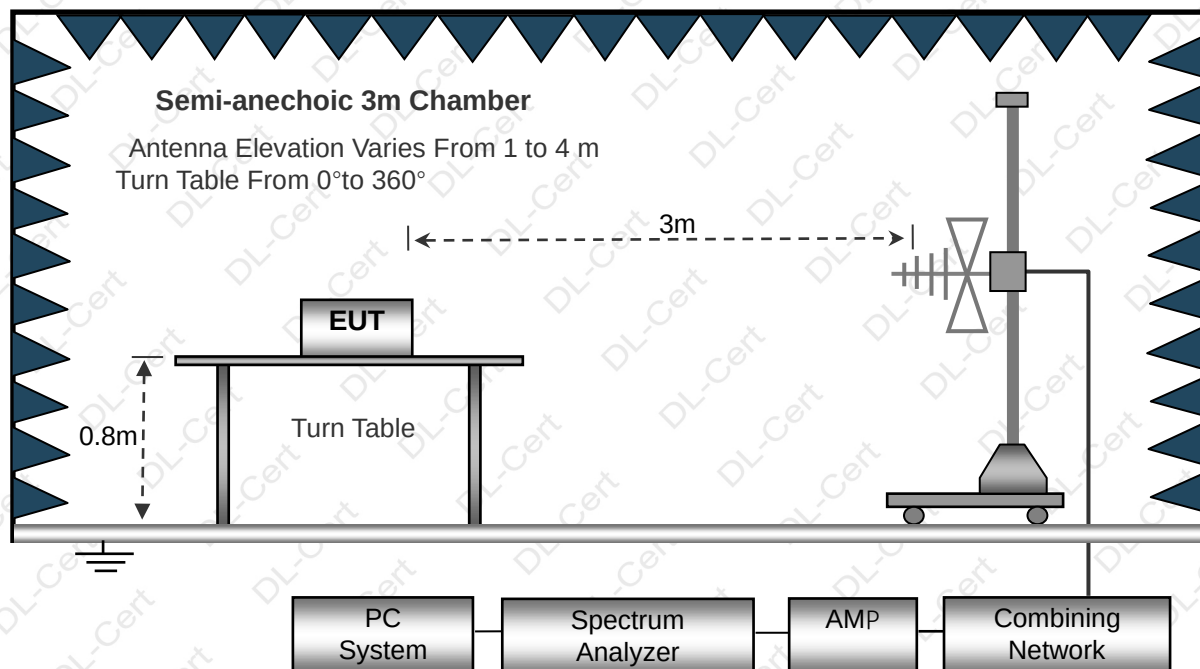
6. RADIATION EMISSION TEST

6.1 Block Diagram of Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



Below 1GHz



6.2 Test Standard and Limit

FCC Part 15 Subpart B



Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value
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 B 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

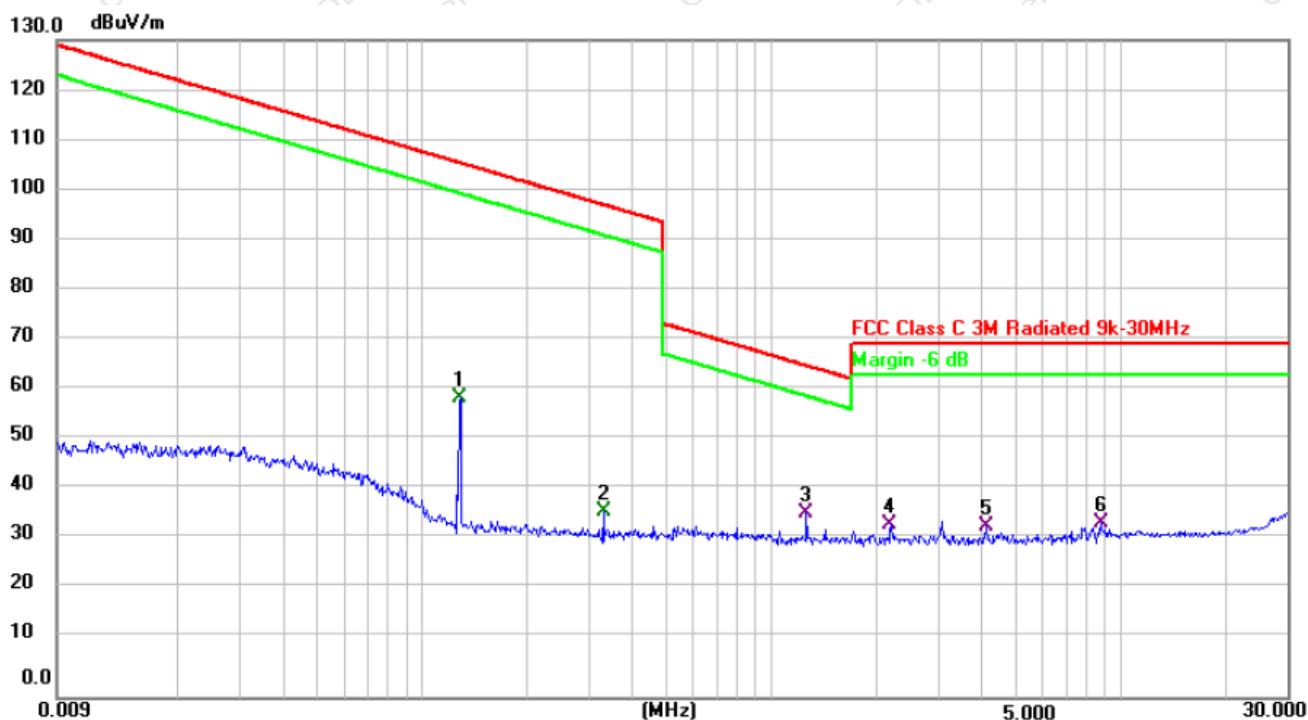
PASS

Please refer to the following page.



Radiation Emission Test Data 9 kHz~30 MHz

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	DC 28.8V	Test Mode:	Mode 1



Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
0.1280	59.18	20.11	79.29	105.75	-26.46	AVERAGE
0.3300	36.95	20.22	57.17	97.46	-40.29	AVERAGE
1.2579	34.01	20.32	54.33	65.68	-11.35	QP
2.2015	29.93	20.39	50.32	70	-19.68	QP
4.1116	25.67	20.47	46.14	70	-23.86	QP
8.7423	17.25	20.58	37.83	70	-32.17	QP

Note:

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

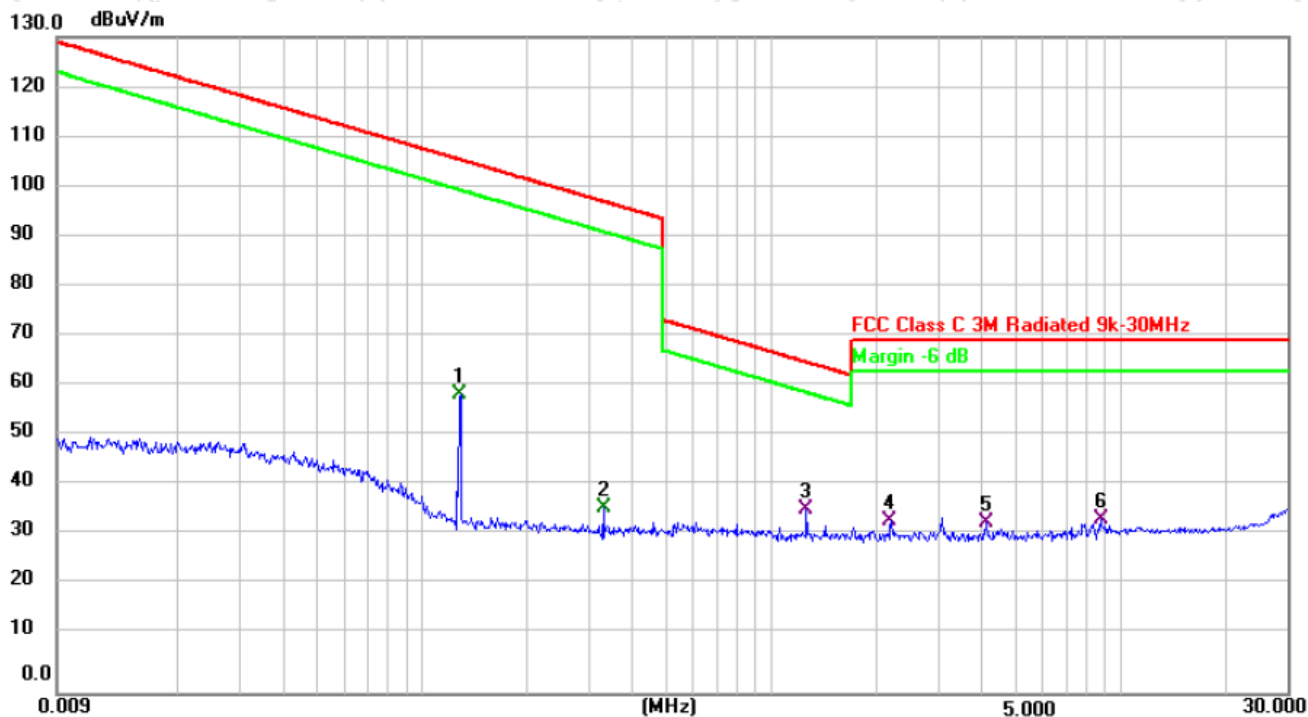
Factor = antenna factor + cable loss – pre-amplifier.

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



Radiation Emission Test Data 9 kHz~30 MHz

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
0.1281	61.18	20.11	81.29	105.75	-24.46	AVERAGE
0.2384	36.88	20.22	57.10	100.31	-43.21	AVERAGE
0.7858	35.63	20.32	55.95	69.83	-13.88	QP
1.4916	29.76	20.39	50.15	64.18	-14.03	QP
4.8752	25.39	20.47	45.86	70	-24.14	QP
8.7423	17.25	20.58	37.83	70	-32.17	QP

Note:

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

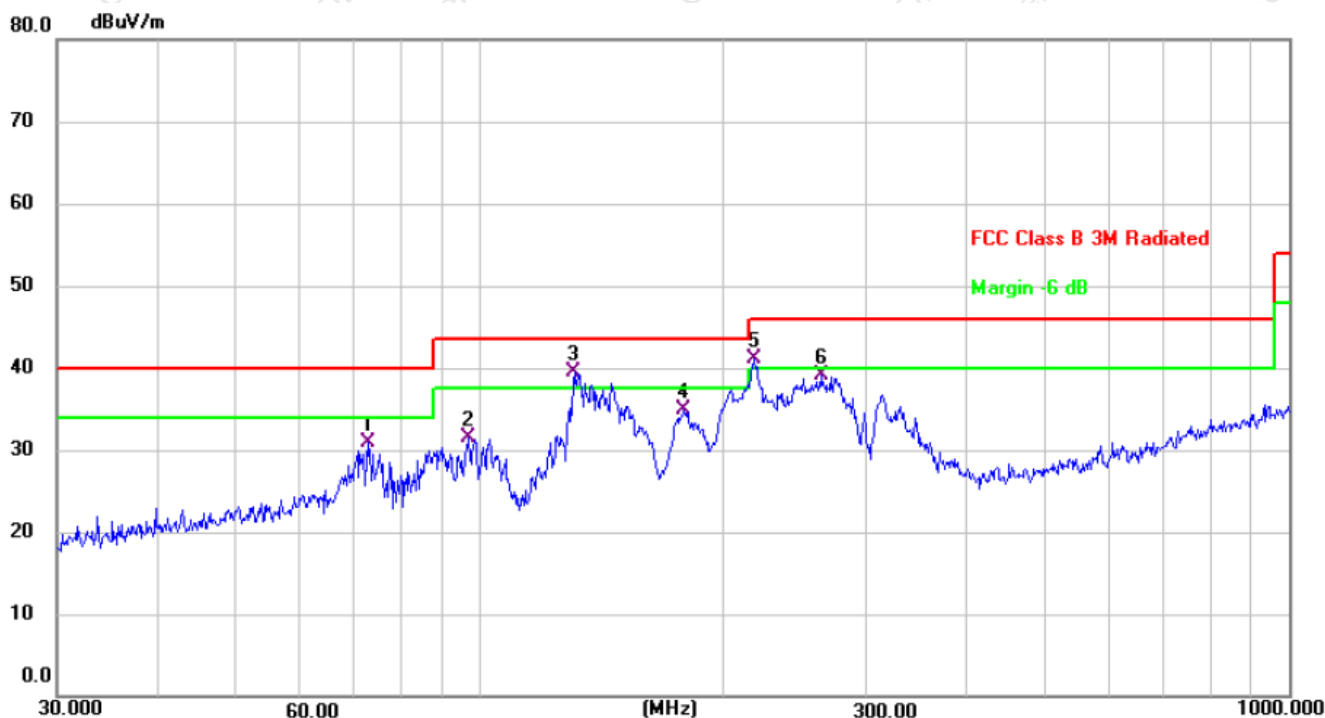
Factor = antenna factor + cable loss – pre-amplifier.

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



Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	DC 28.8V	Test Mode:	Mode 1

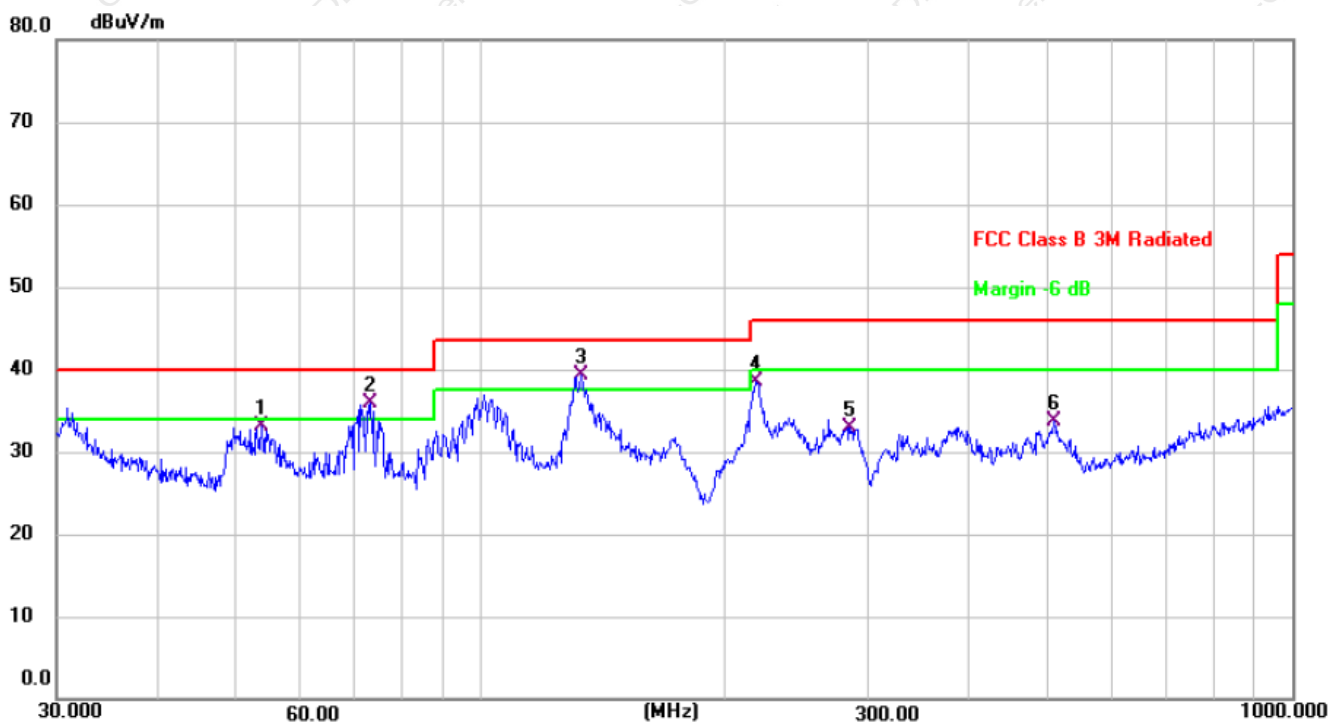


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	72.5915	45.39	-14.56	30.83	40.00	-9.17	QP
2	96.7750	46.86	-15.27	31.59	43.50	-11.91	QP
3 *	130.8369	55.54	-15.95	39.59	43.50	-3.91	QP
4	178.7583	49.62	-14.63	34.99	43.50	-8.51	QP
5 !	218.3084	53.75	-12.73	41.02	46.00	-4.98	QP
6	263.8190	50.63	-11.46	39.17	46.00	-6.83	QP



Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	DC 28.8V	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	53.6932	44.53	-11.42	33.11	40.00	-6.89	QP
2 *	73.1025	51.55	-15.69	35.86	40.00	-4.14	QP
3 !	132.6850	55.18	-15.95	39.23	43.50	-4.27	QP
4	218.3085	50.73	-12.24	38.49	46.00	-7.51	QP
5	284.9767	42.95	-10.00	32.95	46.00	-13.05	QP
6	508.2582	39.56	-5.76	33.80	46.00	-12.20	QP

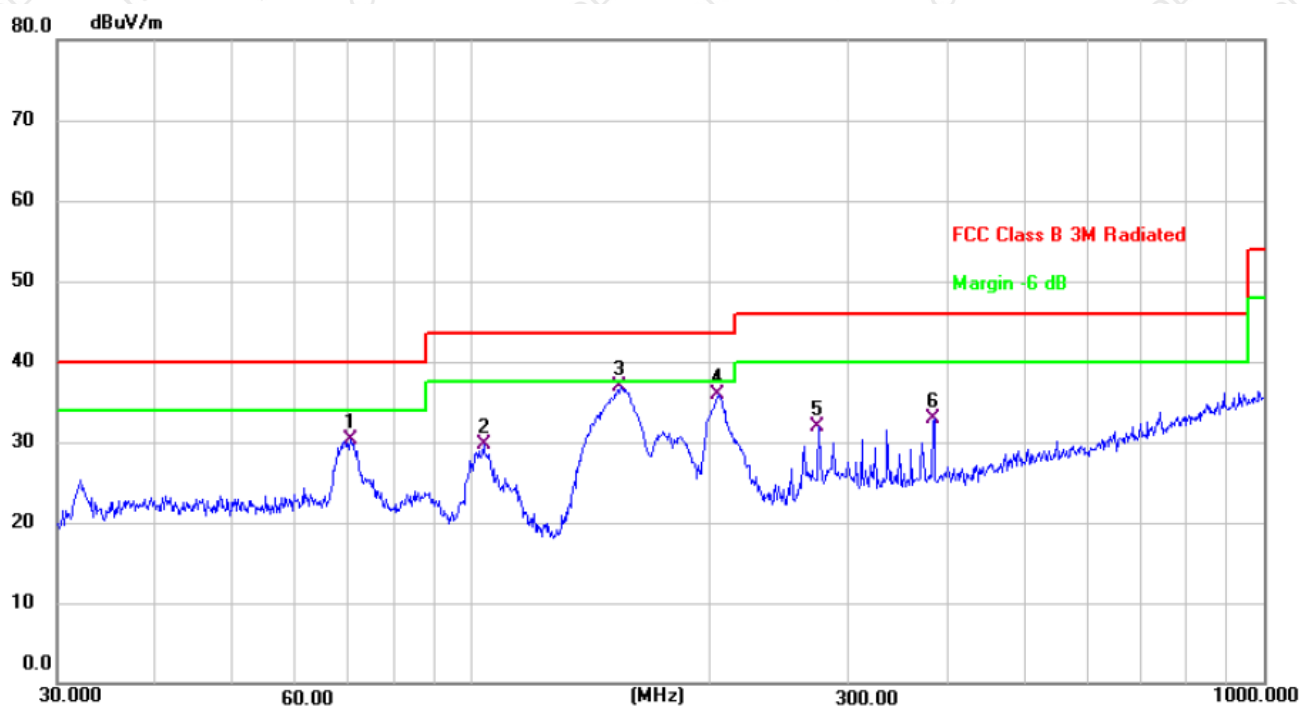
Remarks:

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 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

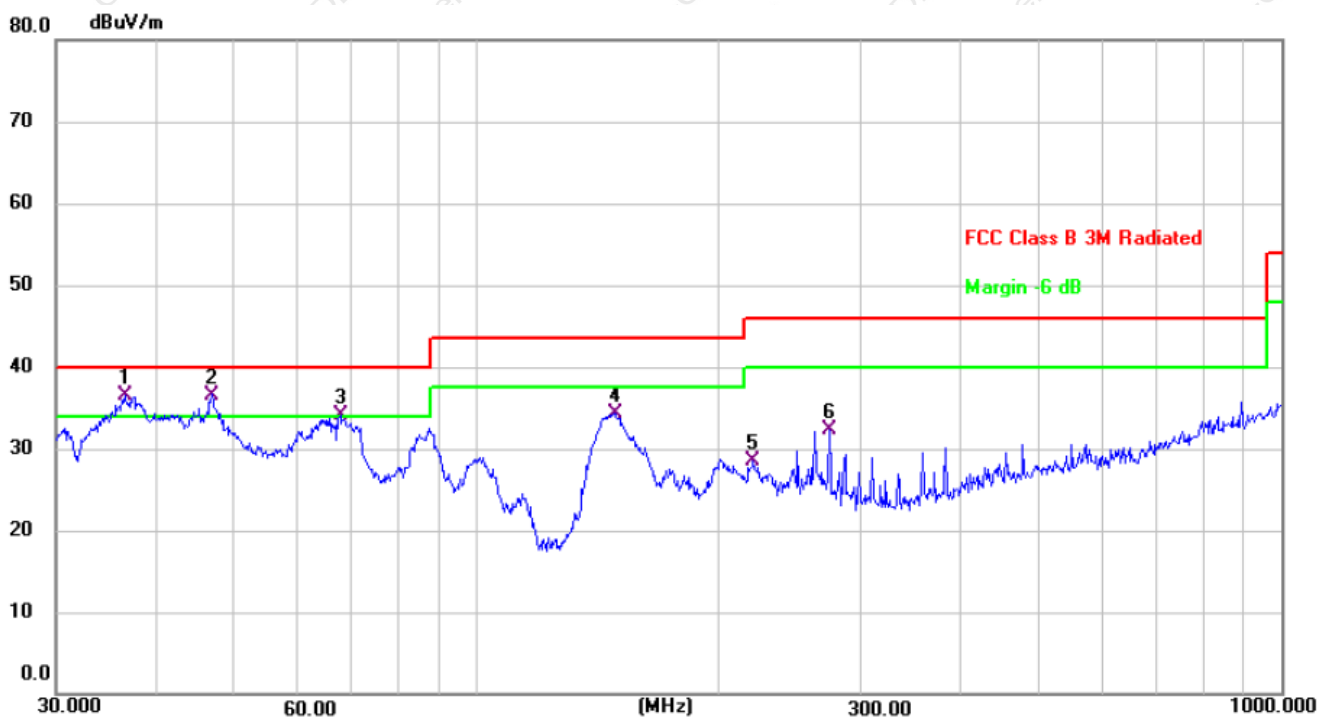


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	70.3965	45.49	-15.11	30.38	40.00	-9.62	QP
2	103.5703	45.11	-15.34	29.77	43.50	-13.73	QP
3 *	154.2786	53.03	-16.21	36.82	43.50	-6.68	QP
4	204.9551	48.65	-12.79	35.86	43.50	-7.64	QP
5	274.1939	42.13	-10.30	31.83	46.00	-14.17	QP
6	382.5879	41.43	-8.54	32.89	46.00	-13.11	QP



Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	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 !	36.5090	49.81	-13.36	36.45	40.00	-3.55	QP
2 *	46.8301	48.17	-11.57	36.60	40.00	-3.40	QP
3 !	67.6751	48.37	-14.31	34.06	40.00	-5.94	QP
4	148.4410	50.75	-16.45	34.30	43.50	-9.20	QP
5	220.6170	40.57	-12.16	28.41	46.00	-17.59	QP
6	274.1938	42.57	-10.30	32.27	46.00	-13.73	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 = 10kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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
128.8	30.5883	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 *****