



TEST REPORT

FCC ID:2A8YL-GY68

Applicant: Beijing Konted Medical Technology Co., Ltd
Address: Room 111, 1F, Building 3, No. 27 , Yongwang Road, Daxing Biological Pharmaceutical Industry Base, Beijing, China
Manufacturer: Beijing Konted Medical Technology Co., Ltd
Address: Room 111, 1F, Building 3, No. 27 , Yongwang Road, Daxing Biological Pharmaceutical Industry Base, Beijing, China
EUT: Wireless Charger
Trade Mark: N/A
Model Number: GY-68, KTD-C10
Date of Receipt: Nov. 22, 2022
Test Date: Nov. 22, 2022 - Dec. 13, 2022
Date of Report: Dec. 13, 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-20221128017E

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	Dec. 13, 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: Wireless Charger

Trade Mark: N/A

Model No.: GY-68, KTD-C10

Model Difference: All samples are the same except the model name and appearance color, so we prepare "GY-68" for test only.

Serial No.: N/A

Hardware version: H1.0

Software version: S1.0

Operation Frequency: 110KHz-205KHz

Modulation type: MSK

Antenna Type: Inductive loop coil Antenna

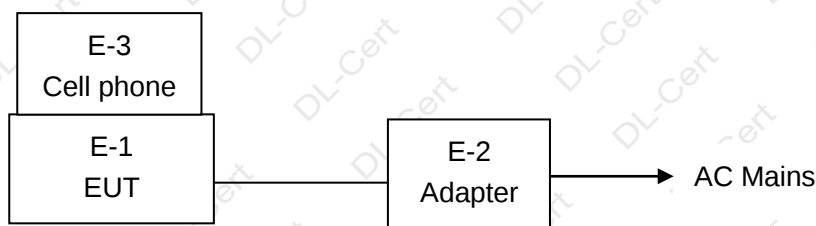
Antenna gain: 0dBi

Power supply: Input: 5V/3A, 9V/2.5A
Output Power: 15W/10W/7.5W/5W

3.2 Tested System Details

None.

3.3 Block Diagram of Test Set-up



3.4 Test Mode Description

Mode1. On Mode(I/P: 5V)

Mode2. On Mode(I/P: 9V)

Note: We pretest all mode, and evaluated 1%, 50% and 99% battery charging mode, the worst mode 1(99% battery charging mode)are included in the report.



3.5 Test Auxiliary Equipment

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Wireless Charger	GY-68	N/A	EUT
E-2	Adapter	AD652G	N/A	Provide by test lab
E-3	Cell phone	HW.01	N/A	Provide by test lab

Item	Shielded Type	Ferrite Core	Length	Note
N/A	N/A	N/A	N/A	N/A

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	Sep. 20, 2022	Sep. 19, 2025
EMI Receiver	R&S	ESR	101421	Nov. 05, 2022	Nov. 04, 2023
LISN	R&S	ENV216	102417	Nov. 05, 2022	Nov. 04, 2023
Clamp	COM-POWER	CLA-050	431071	Nov. 05, 2022	Nov. 04, 2023
3-Loop Antenna	DAZE	ZN30401	13021	Nov. 05, 2022	Nov. 04, 2023
ISN T8	Schwarzbeck	NTFM 8158	101135	Nov. 05, 2022	Nov. 04, 2023
ISN T5	Schwarzbeck	NTFM 8158	101136	Nov. 05, 2022	Nov. 04, 2023
843 Cable 1#	ChengYu	CE Cable	001	Nov. 05, 2022	Nov. 04, 2023
843 Cable 1#	ChengYu	CE Cable	002	Nov. 05, 2022	Nov. 04, 2023

For Radiated Emission Test (966 chamber)

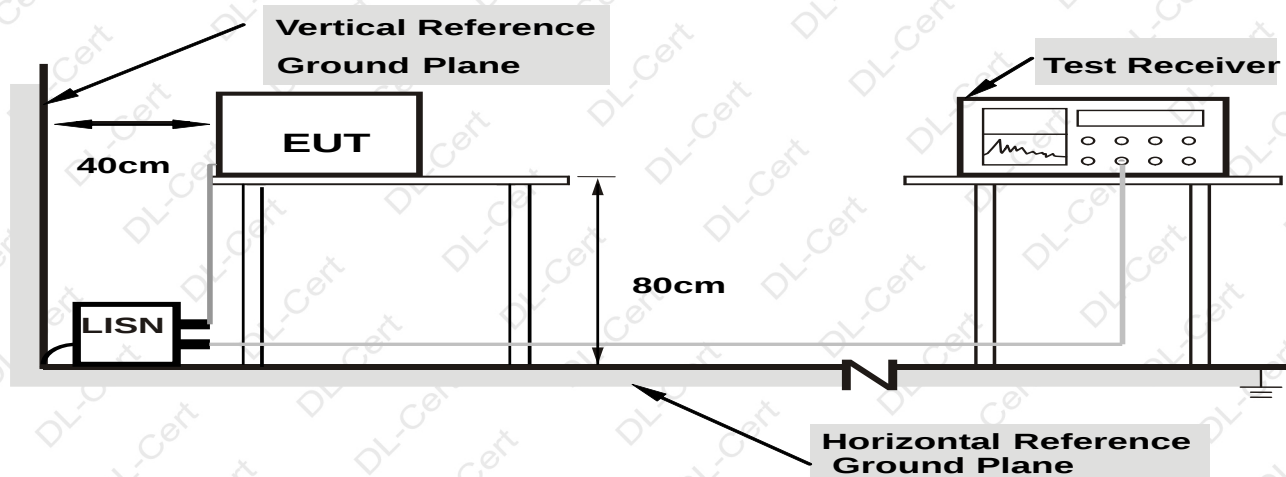
Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
966 Chamber	ChengYu	966 Room	966	Sep. 20, 2022	Sep. 19, 2025
Spectrum Analyzer	Agilent	E4408B	MY50140780	Nov. 05, 2022	Nov. 04, 2023
EMI Receiver	R&S	ESRP7	101393	Nov. 05, 2022	Nov. 04, 2023
Amplifier	Schwarzbeck	BBV9743B	00153	Nov. 05, 2022	Nov. 04, 2023
Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	014	Nov. 05, 2022	Nov. 04, 2023
Amplifier	EMEC	EM01G8GA	00270	Nov. 05, 2022	Nov. 04, 2023
Broadband Trilog Antenna	Schwarzbeck	VULB9162	00306	Nov. 05, 2022	Nov. 04, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	02139	Nov. 05, 2022	Nov. 04, 2023
966 Cable 1# (30MHz-1GHz)	ChengYu	966	004	Nov. 05, 2022	Nov. 04, 2023
966 Cable 2# (1GHz-40GHz)	ChengYu	966	003	Sep. 20, 2022	Sep. 19, 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 B

Frequency MHz	Limits dB(μ V)	
	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.Measurement Level = Reading level + Correct Factor

5.6 Test Result

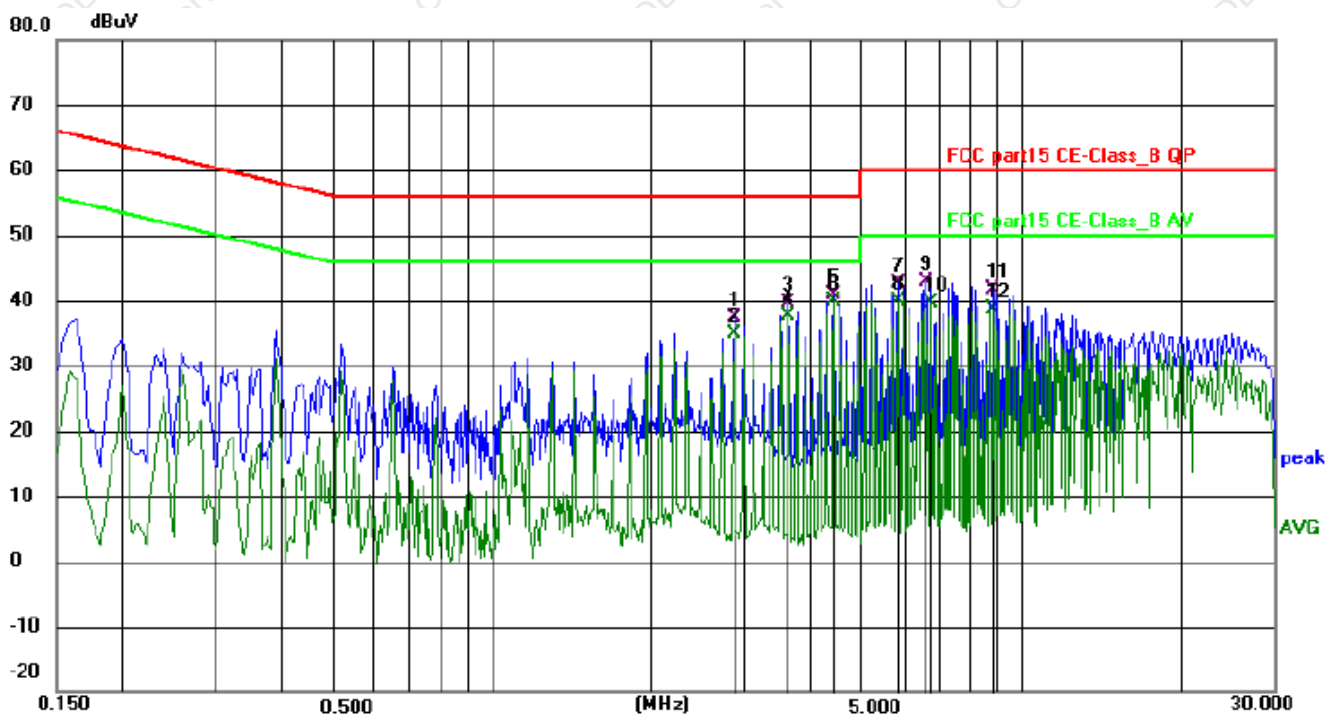
PASS

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:	Mode2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	2.854000	28.55	8.75	37.30	56.00	-18.70	QP	P	
2	2.854000	26.17	8.75	34.92	46.00	-11.08	AVG	P	
3	3.622500	30.32	9.22	39.54	56.00	-16.46	QP	P	
4	3.622500	28.44	9.22	37.66	46.00	-8.34	AVG	P	
5	4.407000	31.33	9.65	40.98	56.00	-15.02	QP	P	
6 *	4.407000	30.21	9.65	39.86	46.00	-6.14	AVG	P	
7	5.835800	32.97	9.70	42.67	60.00	-17.33	QP	P	
8	5.835800	30.11	9.70	39.81	50.00	-10.19	AVG	P	
9	6.592100	33.18	9.73	42.91	60.00	-17.09	QP	P	
10	6.733300	29.81	9.73	39.54	50.00	-10.46	AVG	P	
11	8.822300	31.78	9.83	41.61	60.00	-18.39	QP	P	
12	8.822300	28.75	9.83	38.58	50.00	-11.42	AVG	P	

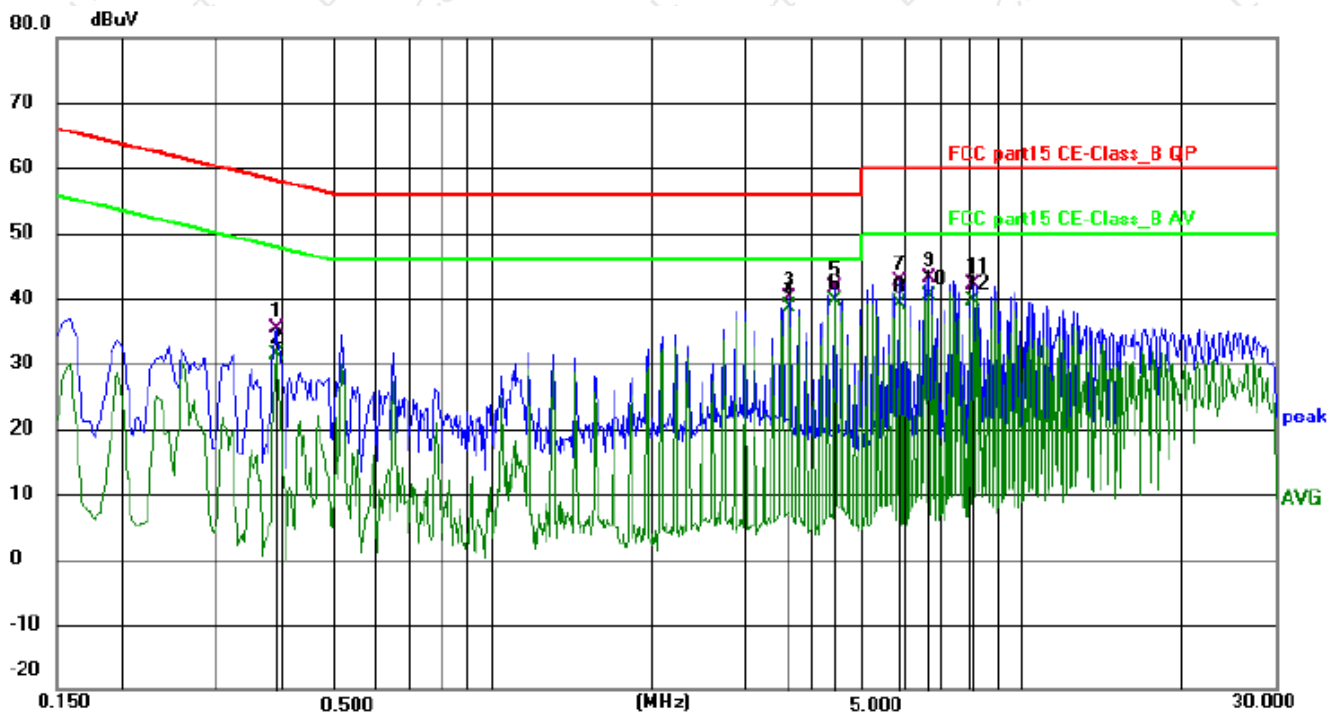
Remark:

Margin = Level - Limit, Correct Factor = Cable lose + LISN insertion loss, Level = Reading + Correct factor



Conducted Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Neutral
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode2



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.388500	26.12	9.21	35.33	58.10	-22.77	QP	P	
2	0.388500	22.13	9.21	31.34	48.10	-16.76	AVG	P	
3	3.637500	30.33	9.81	40.14	56.00	-15.86	QP	P	
4	3.637500	28.70	9.81	38.51	46.00	-7.49	AVG	P	
5	4.420500	31.83	9.81	41.64	56.00	-14.36	QP	P	
6 *	4.420500	29.89	9.81	39.70	46.00	-6.30	AVG	P	
7	5.847000	32.92	9.83	42.75	60.00	-17.25	QP	P	
8	5.847000	29.37	9.83	39.20	50.00	-10.80	AVG	P	
9	6.630000	33.32	9.85	43.17	60.00	-16.83	QP	P	
10	6.630000	30.42	9.85	40.27	50.00	-9.73	AVG	P	
11	8.056500	32.07	9.94	42.01	60.00	-17.99	QP	P	
12	8.056500	29.58	9.94	39.52	50.00	-10.48	AVG	P	

Remark:

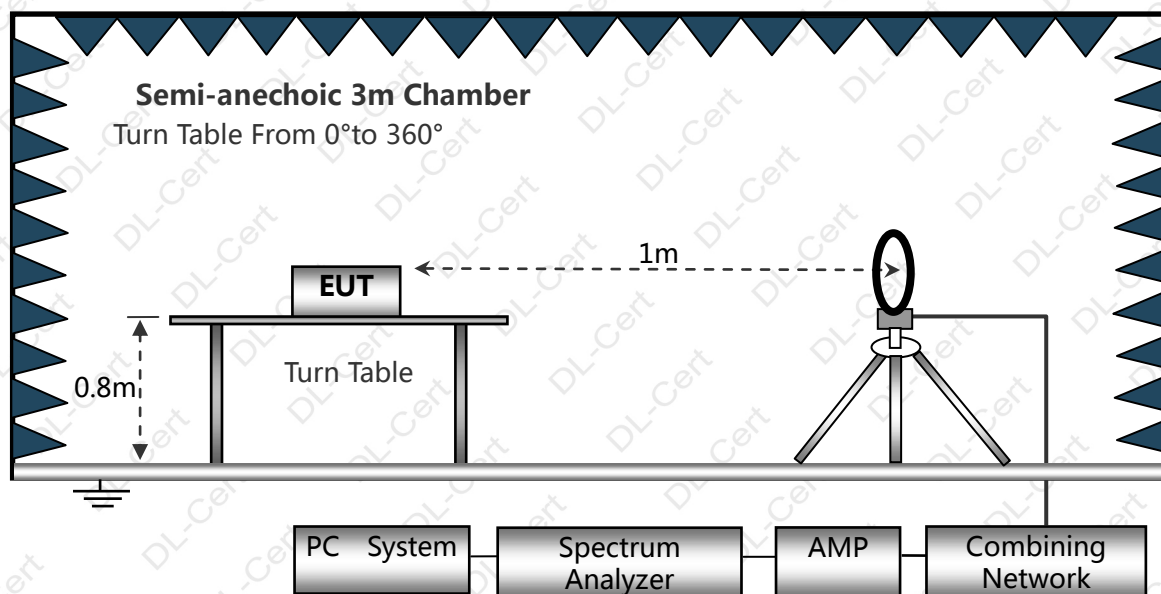
Margin = Level - Limit, Correct Factor = Cable lose + LISN insertion loss, Level = Reading + Correct factor



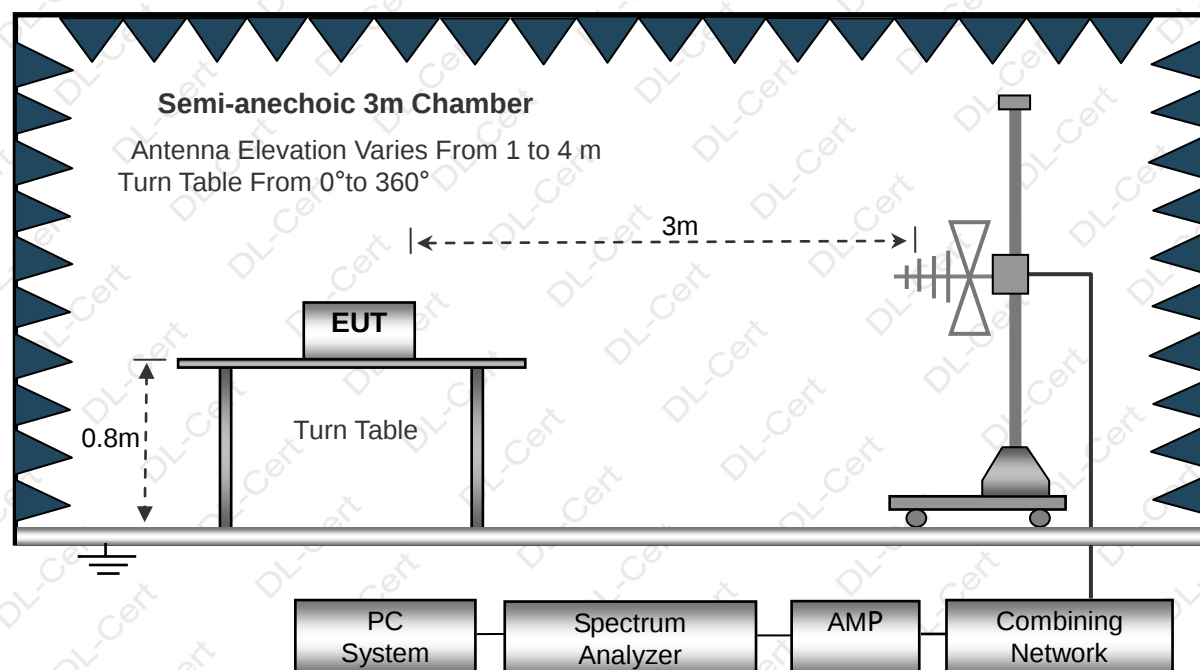
6. RADIATION EMISSION TEST

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

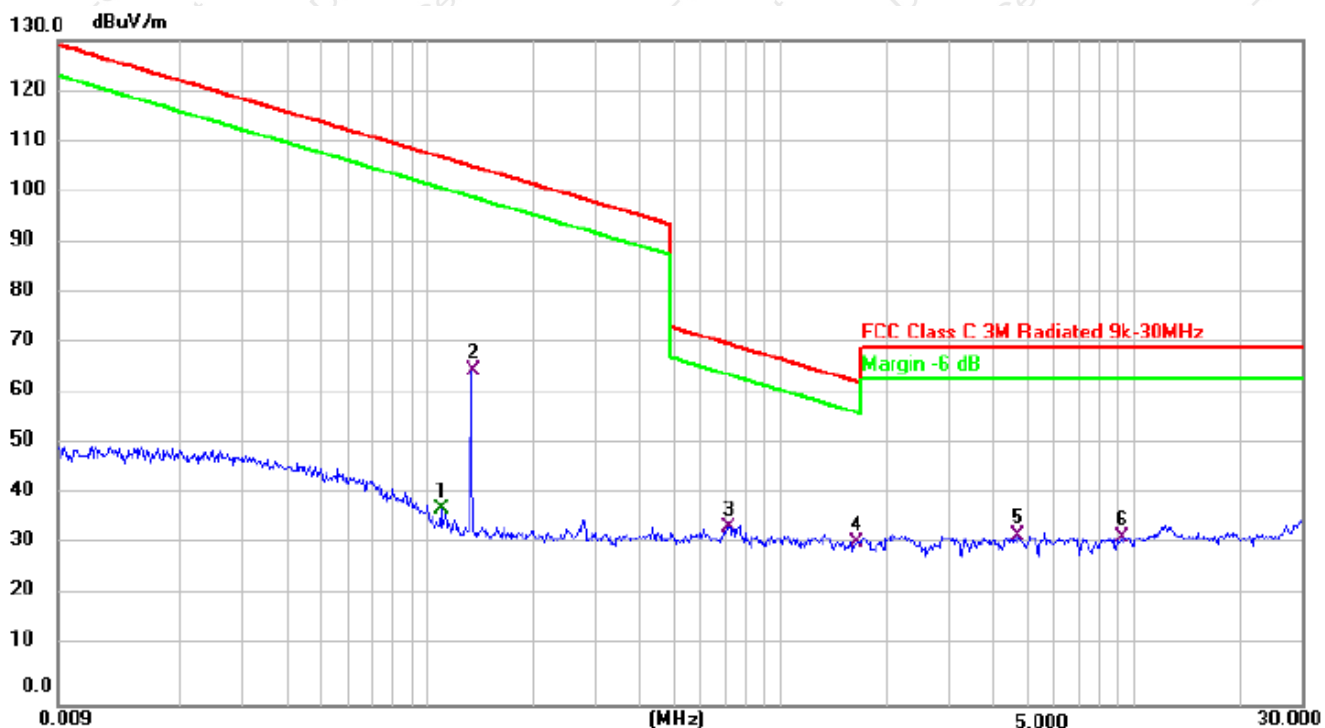
PASS

Please refer to the following page.



Radiation Emission Test Data 9 kHz~30 MHz

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



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1		0.1108	38.56	0.00	38.56	107.02	-68.46	AVG
2		0.1351	65.42	0.00	65.42	105.28	-39.86	AVG
3		0.7186	35.00	0.00	35.00	70.62	-35.62	QP
4	*	1.6431	28.87	3.28	32.15	63.33	-31.18	QP
5		4.6814	23.93	9.36	33.29	70.00	-36.71	QP
6		9.2530	14.34	18.50	32.84	70.00	-37.16	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.



Restricted band edge:

Frequency (kHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type PK	Result
110.00	38.45	0	38.45	126.78	-88.33	PK	Pass
110.00	33.61	0	33.61	106.78	-73.17	AV	Pass
111.59	46.62	0	46.62	126.65	-80.03	PK	Pass
111.59	37.37	0	37.37	106.65	-69.28	AV	Pass

Note:

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

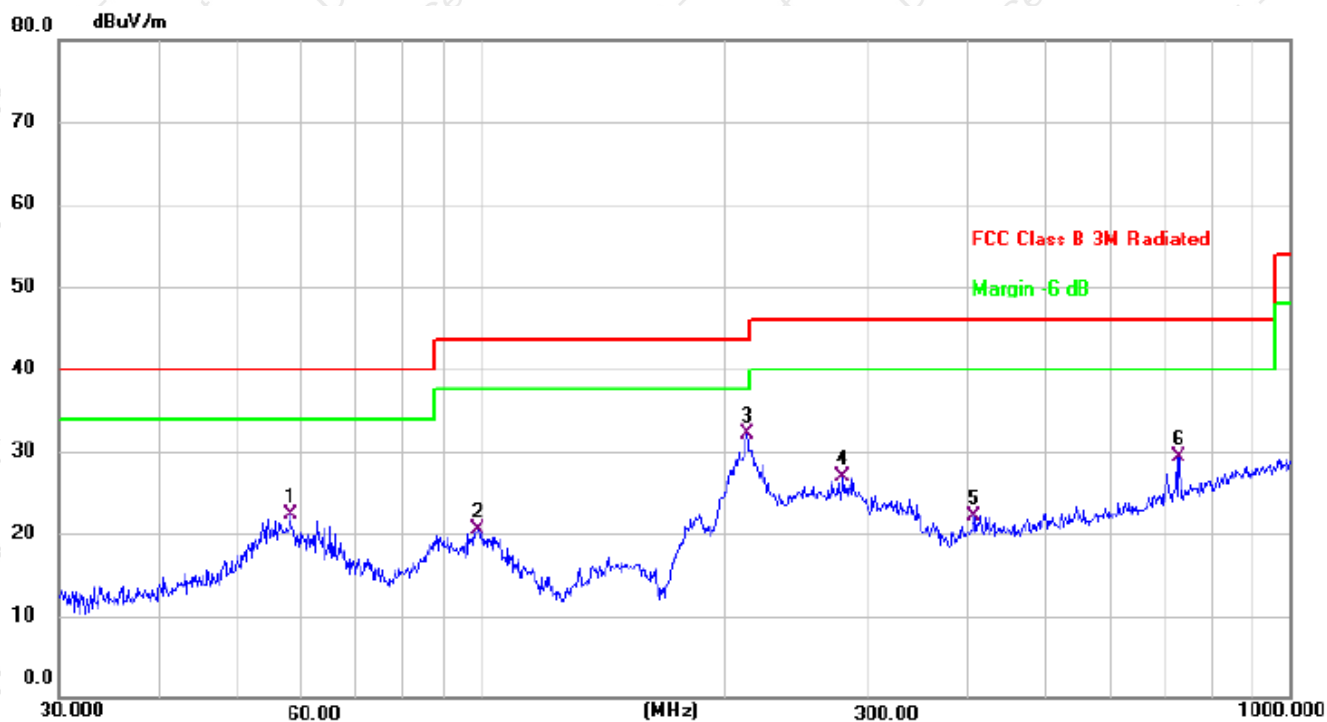
Factor = antenna factor + cable loss – pre-amplifier.

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



Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 2

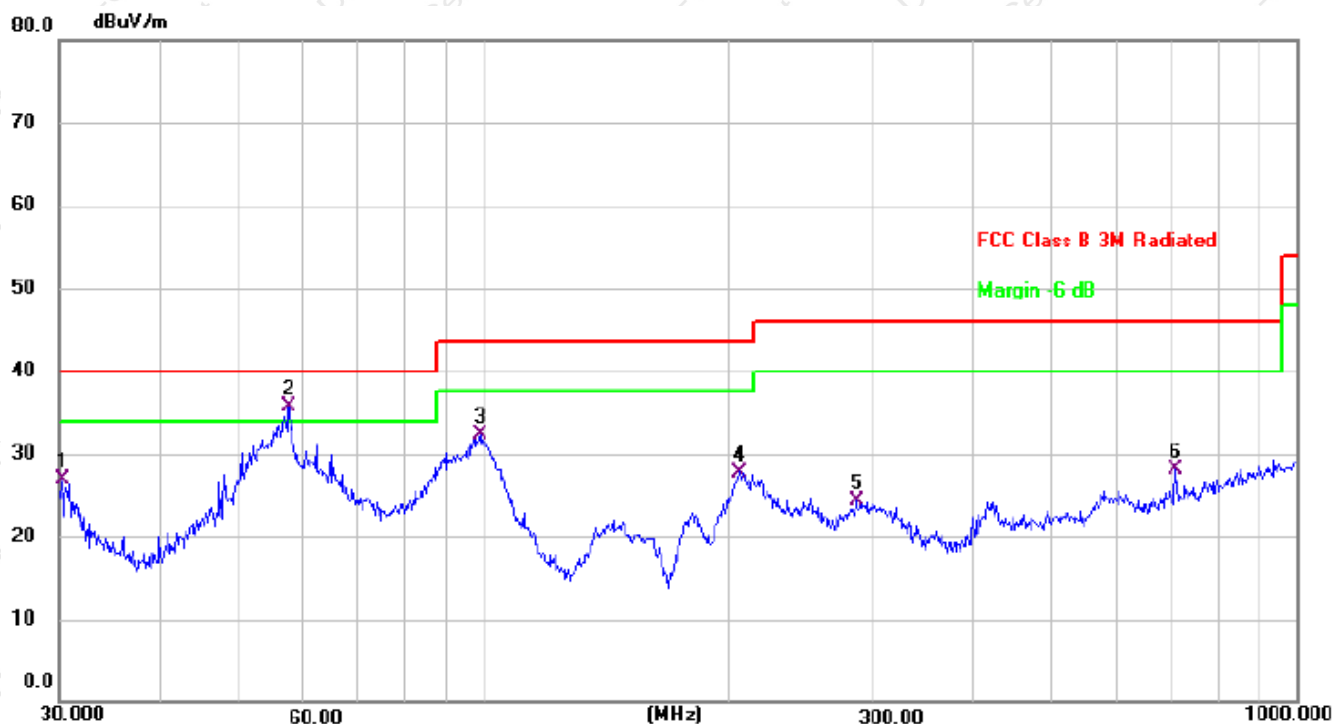


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1		57.9993	33.57	-11.23	22.34	40.00	-17.66	QP
2		99.1797	35.61	-15.14	20.47	43.50	-23.03	QP
3	*	213.0151	45.04	-12.90	32.14	43.50	-11.36	QP
4		280.0237	37.97	-11.12	26.85	46.00	-19.15	QP
5		406.0880	31.24	-9.14	22.10	46.00	-23.90	QP
6		729.3583	32.72	-3.33	29.39	46.00	-16.61	QP



Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Margin dB	Detector
1		30.3173	41.70	-14.73	26.97	40.00	-13.03	QP
2	*	57.5939	47.49	-11.75	35.74	40.00	-4.26	QP
3		98.8326	47.46	-15.25	32.21	43.50	-11.29	QP
4		206.3976	40.54	-12.74	27.80	43.50	-15.70	QP
5		286.9823	34.19	-9.95	24.24	46.00	-21.76	QP
6		709.1823	30.64	-2.48	28.16	46.00	-17.84	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.

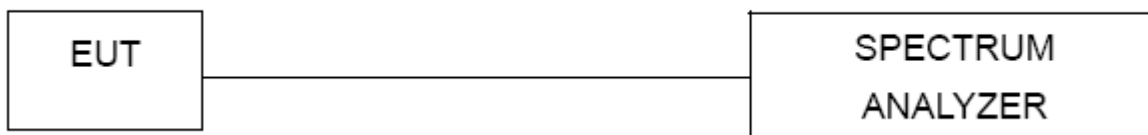


7. BANDWIDTH TEST

7.1 TEST SETUP

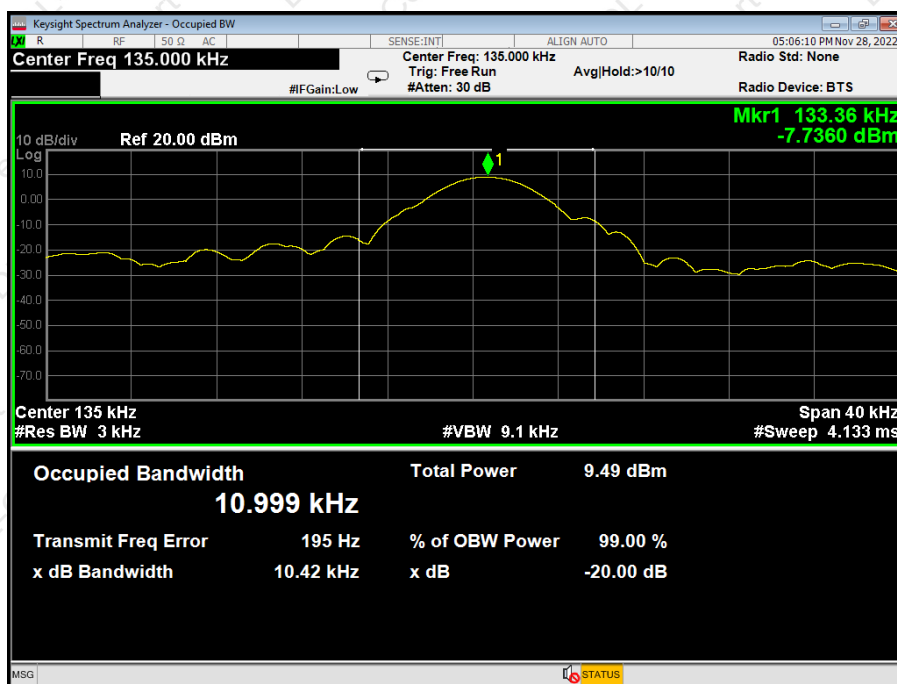
1. Set RBW = 3 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude 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
135	10.42	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 *****