

EMC TEST REPORT

FCC ID: 2A6CL-CR1001

Report No. : SSP25060318-1E

Applicant : Shen Zhen Yelaw Technology Co., LTD

Product Name : Clock Radio

Model Name : CR1001

Test Standard : FCC Part 15 Subpart B

Date of Issue : 2025-07-03



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen,
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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant:	Shen Zhen Yelaw Technology Co., LTD
Address of Applicant:	4th Floor, Building D, Xinyong Fengxin Industrial Park, Fengzheng Road, Shiyan Street Baoan District, Shenzhen, China
Manufacturer:	Shen Zhen Yelaw Technology Co., LTD
Address of Manufacturer:	4th Floor, Building D, Xinyong Fengxin Industrial Park, Fengzheng Road, Shiyan Street Baoan District, Shenzhen, China
Product Name:	Clock Radio
Brand Name:	Mesqool/ROCAM/Raynic/Roxiclosly/PPLLEE/OnLyee/Eoxsmile/PESCON/ MINORZ/Zebon
Main Model:	CR1001
Series Models:	CR1001E, CR1001EM, CR1001F, CR1001i, CR1001E Pro, CR1001EM Pro, CR1001ER, CR1001EMR
Test Standard:	FCC Part 15 Subpart B ANSI C63.4-2014
Date of Test:	2025-06-24 to 2025-06-27
Test Result:	PASS
Tested By	<u>Walker Wu</u> (Walker Wu)
Reviewed By:	<u>Lorzix Luo</u> (Lorzix Luo)
Authorized Signatory:	<u>Lahm Peng</u> (Lahm Peng)

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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2025-07-03	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Clock Radio
Trade Name:	Mesqool/ROCAM/Raynic/Roxicosly/PPLEE/OnLyee/Eoxsmile/PESCON/ MINORZ/Zebon
Main Model:	CR1001
Series Models:	CR1001E, CR1001EM, CR1001F, CR1001i, CR1001E Pro, CR1001EM Pro, CR1001ER, CR1001EMR
Class of Equipment:	☐ Class A ☒ Class B
Highest Internal Frequency:	<108MHz
Rated Voltage:	DC 3V by AAA*2 battery or DC 5V From Adapter
Test Sample No:	SSP25060318-1
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.	

1.2 Test Setup Information

List of Test Modes			
Test Mode	Description	Remark	
TM1	Charging+FM band+usb out	AC 120V/60Hz	
TM2	Dry cell +FM band+usb out	Full load	
-	-	-	
List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
-	-	-	-
List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
Adapter	Xiaomi	HW-100225C00	HC78E2N6A23645
-	-	-	-
-	-	-	-
The equipment under test (EUT) was configured to measure its highest possible emission and immunity level. The test modes were adapted according to the operation manual for use.			

1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart B	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Unintentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart B	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Unintentional Radiators
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.4 Test Facilities

Laboratory Name:	Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6983.01
FCC Registration No:	583813
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

1.5 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Disturbance	9kHz ~30MHz	±1.64 dB
Radiated Disturbance	30MHz ~ 1GHz	±3.32 dB
Radiated Disturbance	1GHz ~ 18GHz	±3.50 dB

1.6 List of Test and Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
Radiated Emissions					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06
Amplifier	HUABO	YXL0518-2.5-45	--	2024-08-07	2025-08-06
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.107	Conducted Emissions	Passed
FCC Part 15.109	Radiated Emissions	Passed
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

3. Conducted Emissions

3.1 Standard and Limit

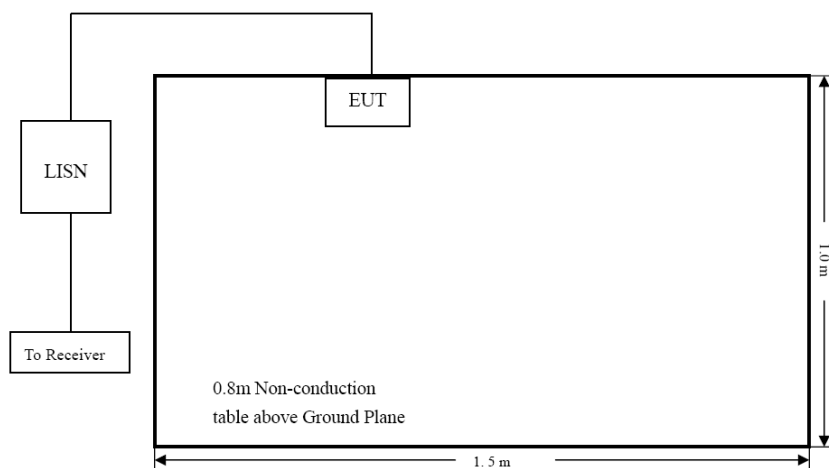
According to the rule FCC Part 15.107, Conducted limit, the limit for a class A and class B device as below:

Frequency of Emission (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15-0.5	79	66	66 to 56	56 to 46
0.5-5	73	60	56	46
5-30	73	60	60	50

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz
 Note 2: The lower limit applies at the band edges

3.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



Test Setup Block Diagram

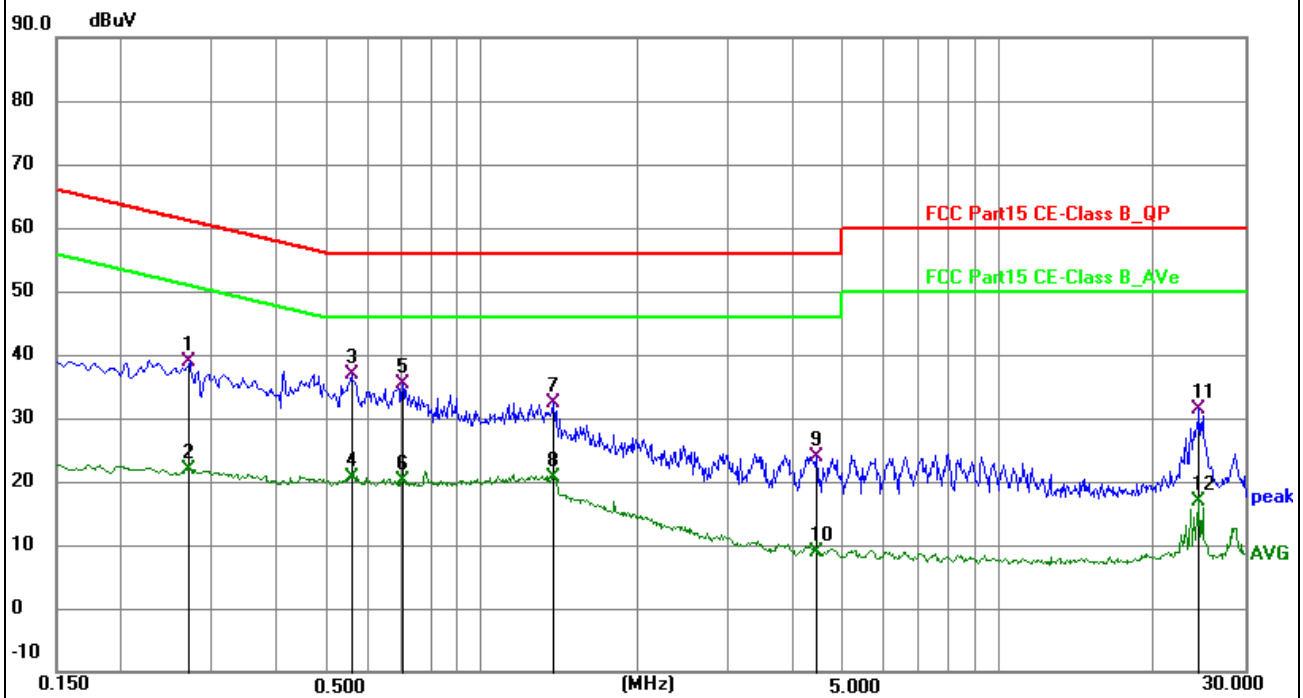
3.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.107 standard limit for a Class B device, and with the worst case TM1 as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Conducted Emissions

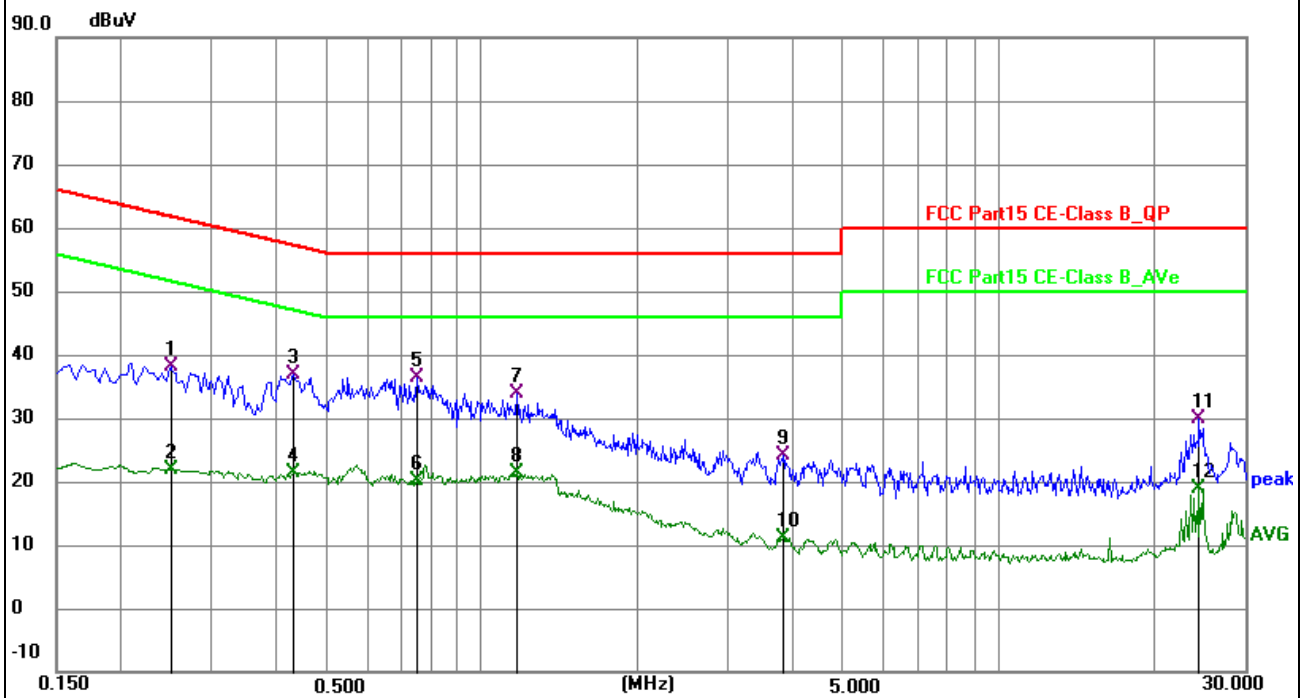
Tested Model:	CR1001
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2714	29.50	9.34	38.84	61.07	-22.23	QP	P	
2	0.2714	12.46	9.34	21.80	51.07	-29.27	AVG	P	
3 *	0.5595	27.59	9.37	36.96	56.00	-19.04	QP	P	
4	0.5595	11.28	9.37	20.65	46.00	-25.35	AVG	P	
5	0.7035	26.03	9.36	35.39	56.00	-20.61	QP	P	
6	0.7035	10.83	9.36	20.19	46.00	-25.81	AVG	P	
7	1.3740	22.90	9.44	32.34	56.00	-23.66	QP	P	
8	1.3740	11.31	9.44	20.75	46.00	-25.25	AVG	P	
9	4.4475	14.43	9.55	23.98	56.00	-32.02	QP	P	
10	4.4475	-0.62	9.55	8.93	46.00	-37.07	AVG	P	
11	24.4050	21.33	10.04	31.37	60.00	-28.63	QP	P	
12	24.4050	6.94	10.04	16.98	50.00	-33.02	AVG	P	

Test Plots and Data of Conducted Emissions

Tested Model:	CR1001
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2490	28.69	9.49	38.18	61.79	-23.61	QP	P	
2	0.2490	12.31	9.49	21.80	51.79	-29.99	AVG	P	
3	0.4290	27.35	9.57	36.92	57.27	-20.35	QP	P	
4	0.4290	11.82	9.57	21.39	47.27	-25.88	AVG	P	
5 *	0.7485	26.80	9.59	36.39	56.00	-19.61	QP	P	
6	0.7485	10.62	9.59	20.21	46.00	-25.79	AVG	P	
7	1.1670	24.36	9.62	33.98	56.00	-22.02	QP	P	
8	1.1670	11.65	9.62	21.27	46.00	-24.73	AVG	P	
9	3.8310	14.37	9.72	24.09	56.00	-31.91	QP	P	
10	3.8310	1.42	9.72	11.14	46.00	-34.86	AVG	P	
11	24.4050	19.60	10.17	29.77	60.00	-30.23	QP	P	
12	24.4050	8.72	10.17	18.89	50.00	-31.11	AVG	P	

4. Radiated Disturbance

4.1 Standard and Limit

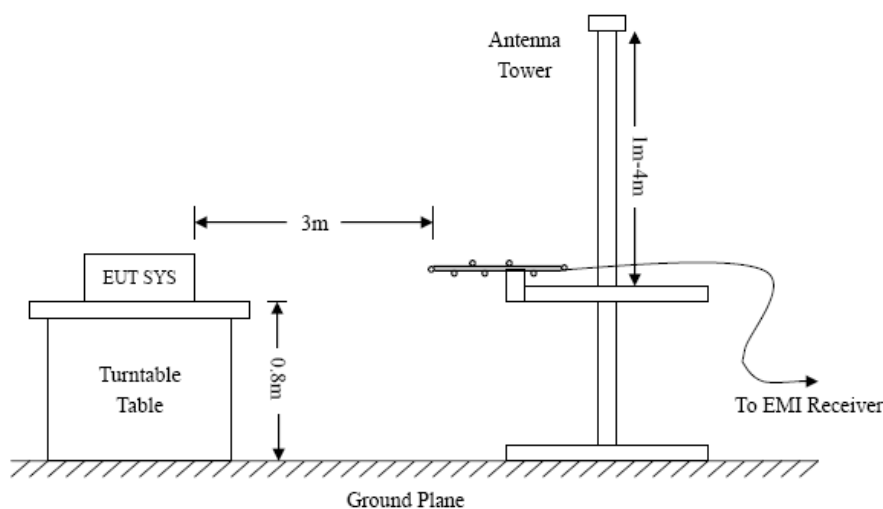
According to the rule FCC Part 15.109, Radiated emission limit for a class A and class B device as below:

Frequency of Emission (MHz)	Class A (3m)	Class B (3m)
	Quasi-peak (dBuV/m)	Quasi-peak (dBuV/m)
30-88	50	40
88-216	54.0	43.5
216-960	57.0	46
Above 960	60	54

Note: The more stringent limit applies at transition frequencies.

4.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



Test Setup Block Diagram

4.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.109 standard limit for a Class B device, and with the worst case TM1 as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Radiated Emissions

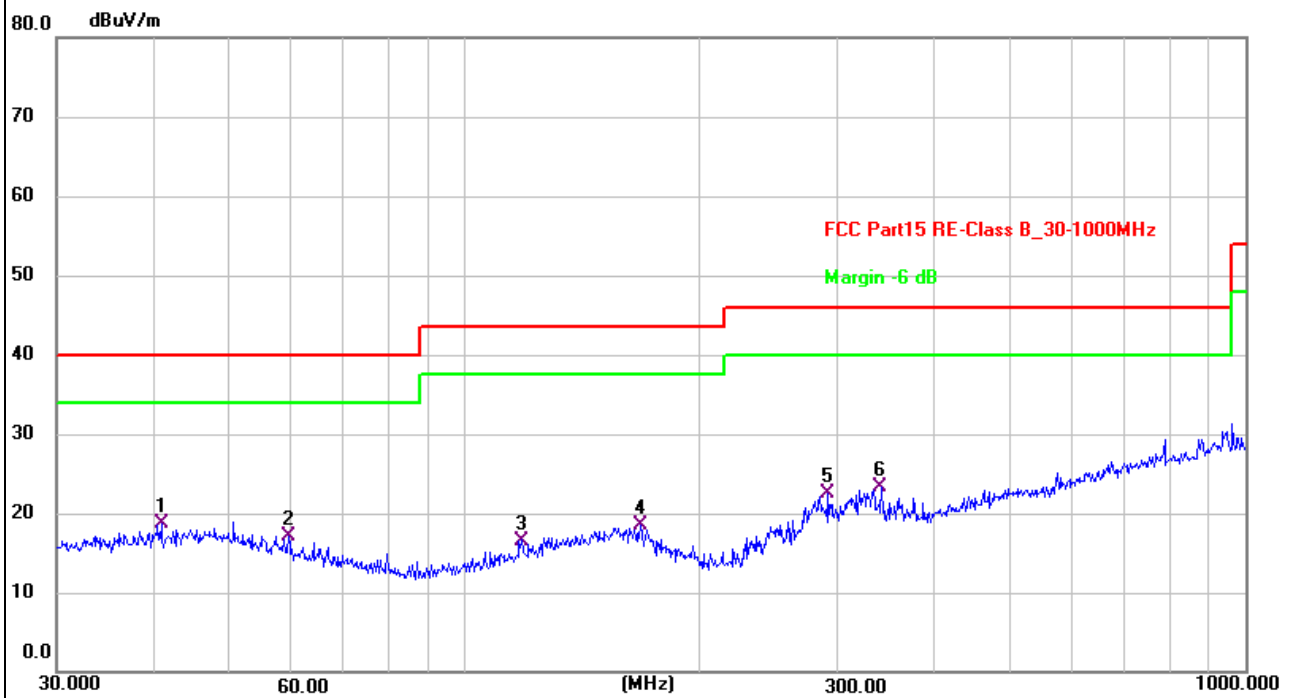
Tested Model: CR1001

Tested Mode: TM1

Test Voltage: AC 120V/60Hz

Test Antenna Polarization: Horizontal

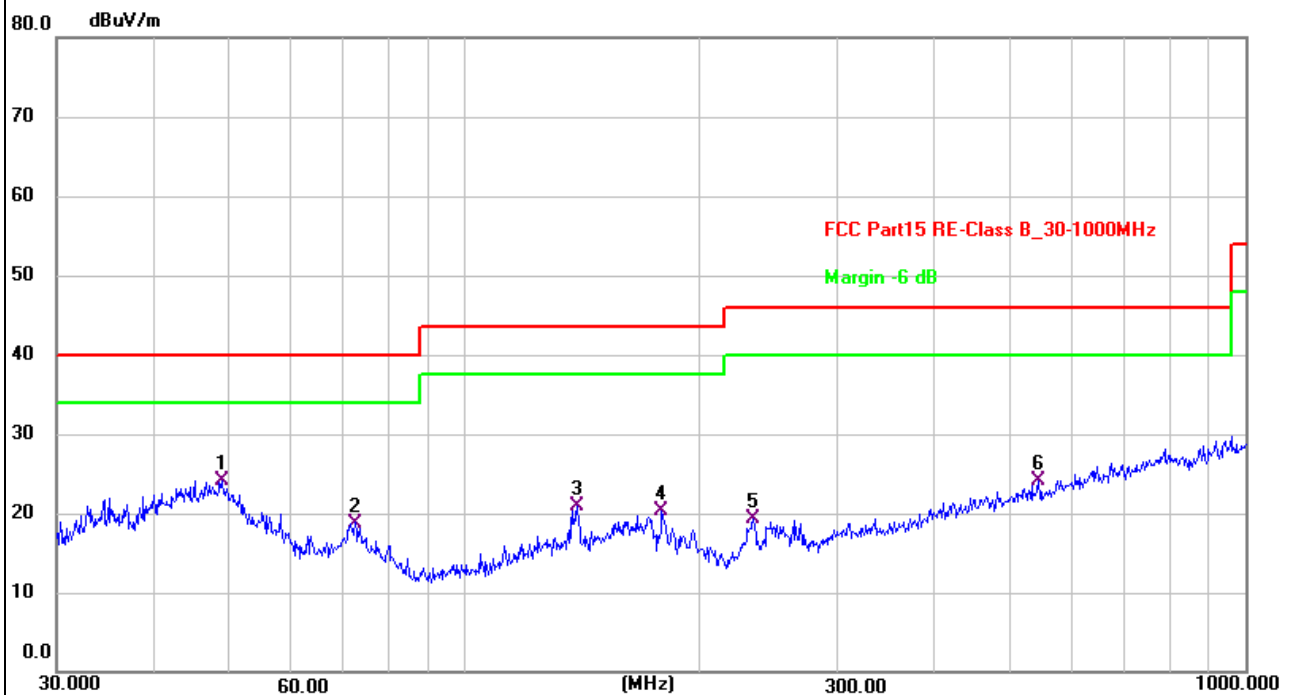
Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	40.8446	26.91	-8.30	18.61	40.00	-21.39	QP	100	146	P	
2	59.4405	27.03	-9.87	17.16	40.00	-22.84	QP	100	74	P	
3	118.1862	26.56	-9.96	16.60	43.50	-26.90	QP	200	348	P	
4	167.8243	27.09	-8.57	18.52	43.50	-24.98	QP	200	348	P	
5	292.0583	30.97	-8.46	22.51	46.00	-23.49	QP	100	12	P	
6	341.9786	30.63	-7.30	23.33	46.00	-22.67	QP	100	12	P	

Test Plots and Data of Radiated Emissions

Tested Model:	CR1001
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Antenna Polarization:	Vertical
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	48.8429	32.37	-8.36	24.01	40.00	-15.99	QP	100	111	P	
2	72.3376	30.78	-11.98	18.80	40.00	-21.20	QP	100	19	P	
3	139.3613	29.09	-8.26	20.83	43.50	-22.67	QP	100	348	P	
4	178.7584	30.63	-10.34	20.29	43.50	-23.21	QP	100	184	P	
5	234.1684	30.10	-10.83	19.27	46.00	-26.73	QP	100	348	P	
6	543.2742	26.86	-2.83	24.03	46.00	-21.97	QP	100	29	P	

Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded in report.