

FCC

RF

TEST REPORT

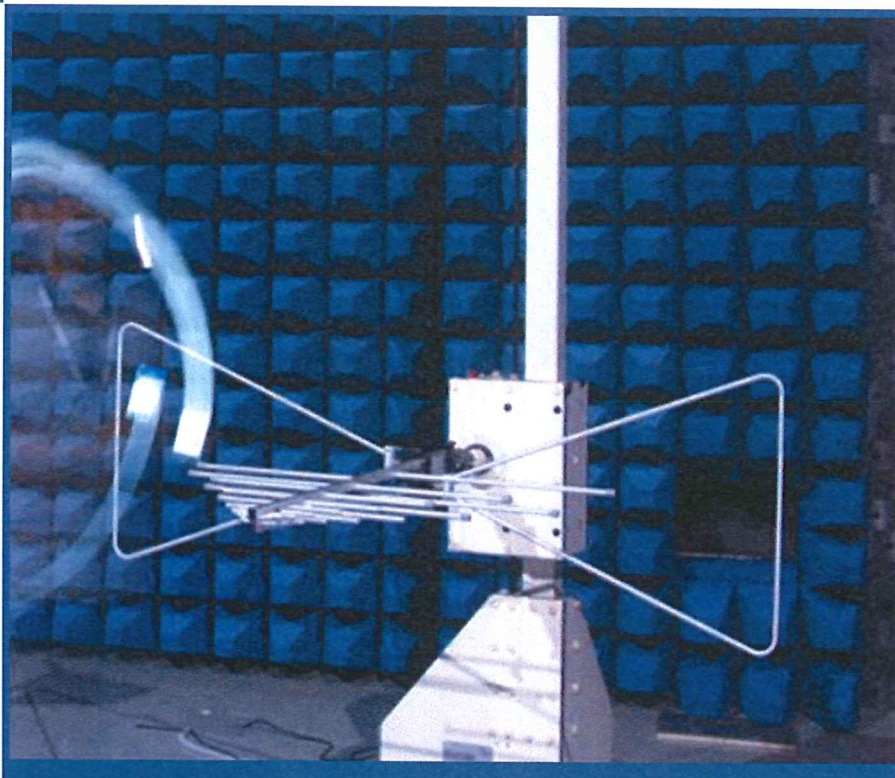
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Wireless Phone Charger

ISSUED TO
Tesla Motors, Inc.

3500 Deer Creek Rd, Palo Alto, CA 94304, USA



Tested by: Xia Long
Xia Long
Date: Mar. 04, 2021

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)
Date: Mar. 04, 2021



Report No.: BL-EC2120070-402
EUT Name: Wireless Phone Charger
Model Name: WC3
Brand Name: TESLA
Test Standard: 47 CFR Part 15 Subpart C
FCC ID: 2AEIM-WC3

Test Conclusion: Pass
Test Date: Feb. 08, 2021~ Feb. 10, 2021
Date of Issue: Mar. 04, 2021

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Mar. 04, 2021</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v2.9.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Tesla Motors, Inc.
Address	3500 Deer Creek Rd, Palo Alto, CA 94304, USA

2.2 Manufacturer Information

Manufacturer	Tesla Motors, Inc.
Address	3500 Deer Creek Rd, Palo Alto, CA 94304, USA

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Wireless Phone Charger
Model Name Under Test	WC3
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	A1
Software Version	A1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
Network and Wireless connectivity	Qi

2.5 Ancillary Equipment

Note: Not applicable.

2.6 Technical Information

Network and Wireless connectivity	Qi
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The requirement for the following technical information of the EUT was tested in this report:

Operating Frequency	122.72kHz~132.72kHz
Product Type	☐ Mobile ☐ Portable ☒ Fix Location
Antenna Type	Coil Antenna
About Product	Note: Mode 1 has only one fixed test channel and Mode 3/Mode 4 test channel is not fixed depending on the load, we only show one channel for typical load testing in this report.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-19 Edition)	Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Radiated Emission	15.209,15.215(b)	Pass	Annex A.1
2	Conducted Emission, AC Ports	15.207	Pass	Annex A.2
3	20 dB Bandwidth	15.215(c)	Pass	Annex A.3

Note 1: This EUT has three modes. Mode1 is EUT + DC Power Supply, Mode2 is EUT + DC Power Supply + Artificial Load 1, Mode3 is EUT + DC Power Supply + Artificial Load 1 + Artificial Load 2.

Note2: Because the EUT is unchanged except for adjusting the position of the coil to shorten the distance between the coils in comparison with the test report No. BL-EC2070405-402(which issued by Shenzhen BALUN Technology Co., Ltd. on Aug. 06, 2020), so radiation test of Radiated Spurious Emissions were retested in this report. Other test items please refer to the test report No. BL-EC2070405-402 (which issued by Shenzhen BALUN Technology Co., Ltd. on Aug. 06, 2020).

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	2.96 dB
Radiated emissions (30 MHz-1 GHz)	3.67 dB
Radiated emissions (1 GHz-18 GHz)	3.57 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

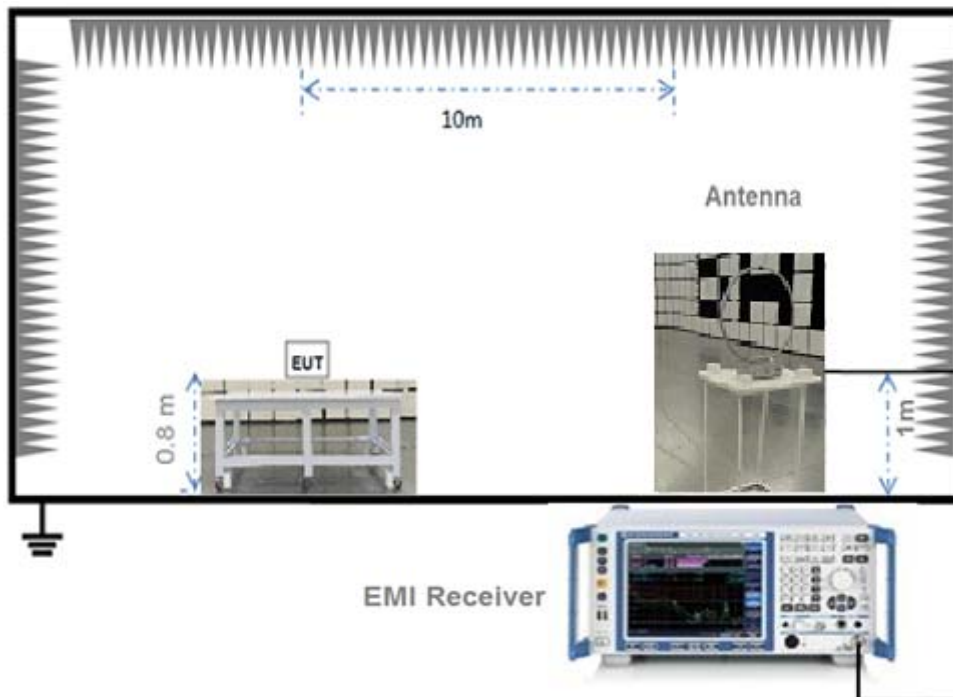
Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	DC 13.5V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2020.06.09	2021.06.08
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2019.10.29	2021.10.28
Test Antenna- Bi-Log(30 MHz- 3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2021.07.01
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7 .35m	N/A	2018.08.08	2021.08.07
EMI Receiver	KEYSIGHT	N9010B	MY5711030 9	2020.06.09	2021.06.08
LISN	SCHWARZBECK	NSLK 8127	8127-687	2020.06.09	2021.06.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.4m*3.1m*2. 8m	N/A	2018.08.16	2021.08.15
Test Software	BALUN	BL410_E	V19.918	--	--

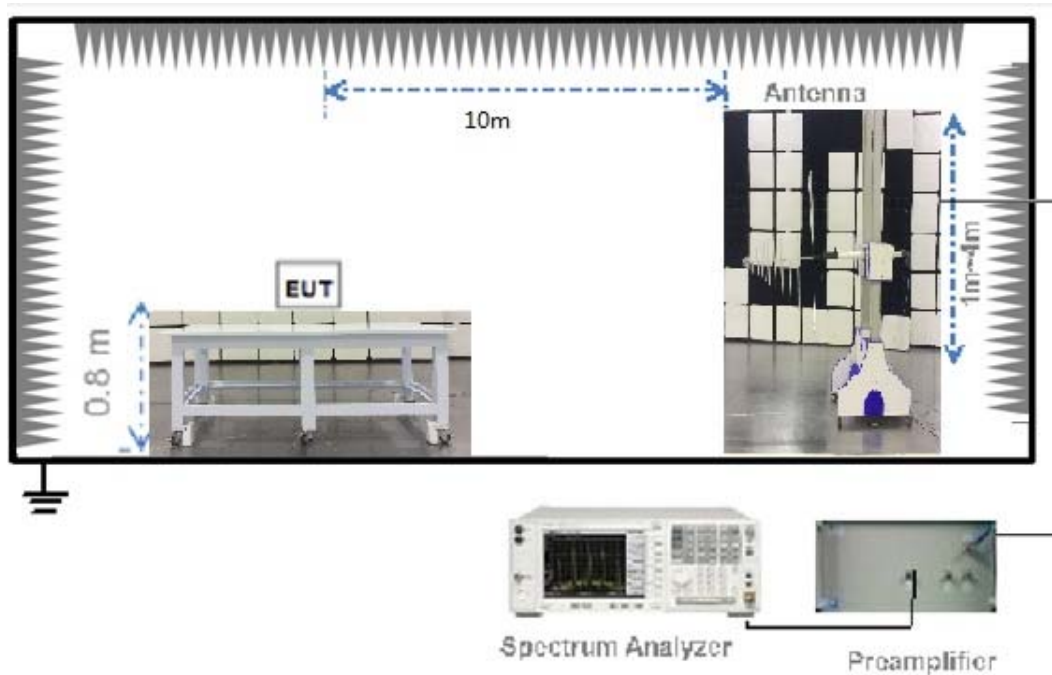
4.3 Test Setups

Test Setup 1



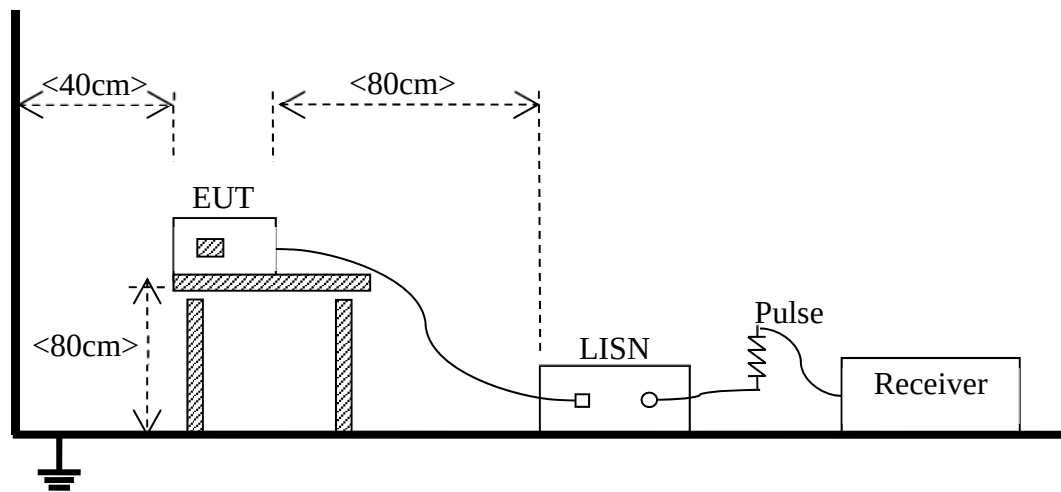
For Radiated Emission Test (Below 30 MHz))

Test Setup 2



(For Radiated Emission Test (30 MHz-1 GHz))

Test Setup 3



(For Conducted Emission, AC Ports Test)

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

- 1) Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For above 1000 MHz, limit field strength of harmonics: $54 \text{ dB}\mu\text{V/m}@3 \text{ m (AV)}$ and $74 \text{ dB}\mu\text{V/m}@3 \text{ m (PK)}$
- 4) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). For example, at the frequency 9 kHz, limit @10m = $20 \cdot \log (2400/f) + 40 \log (d_{\text{limit}}/d_{\text{measure}})$ where limit = 300m, $d_{\text{measure}}=10\text{m}$. limit @10m = $20 \cdot \log (2400/9) + 40 \log (300/10) = 107.5 \text{ (dB}\mu\text{V/m)}$.
- 5) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided, When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements). For example, at the frequency 30 MHz, limit @10m = $20 \cdot \log (100) + 20 \log (d_{\text{limit}}/d_{\text{measure}})$ where limit = 3m, $d_{\text{measure}}=10\text{m}$. limit @10m = $20 \cdot \log (100) + 20 \log (3/10) = 29.5 \text{ (dB}\mu\text{V/m)}$.

5.1.1.2 Test Setup

Refer to 4.3 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

$$1. \text{ Results (dBuV/m) = Reading (dBuV) + Factor (dB/m)}$$

The reading level is calculated by software which is not shown in the sheet

$$2. \text{ Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)}$$

$$3. \text{ Over limit = Results – Limit.}$$

5.1.2 Conducted Emission

5.1.2.1 Test Limit

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

5.1.2.2 Test Setup

Refer to 4.3 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω/50 μH of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

1. Results (dBuV/m) = Reading (dBuV) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Over limit = Results – Limit.

5.1.3 20 dB Bandwidth

5.1.3.1 Limit

FCC §15.215(c)

The 20 dB bandwidth is known as the 99% emission bandwidth, or 20 dB bandwidth ($10 \cdot \log 1\% = 20$ dB) taking the total RF output power.

5.1.3.2 Test Setup

Refer to 4.3 section test (test setup 1) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.1.3.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW $\geq$ 1% of the 20 dB bandwidth

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.1.3.4 Test Result

Please refer to ANNEX A.3.

ANNEX A TEST RESULTS

A.1 Radiated Emission

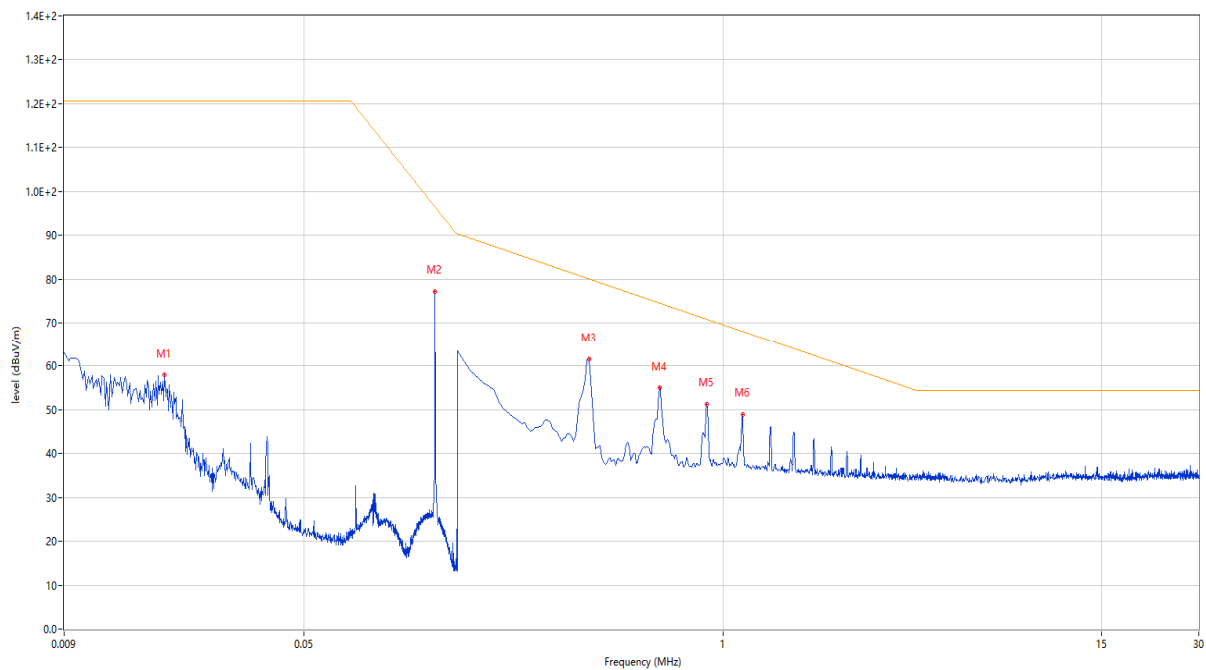
Note¹: The symbol of “--” in the table which means not application.

Note²: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

QI Test Data and Plots

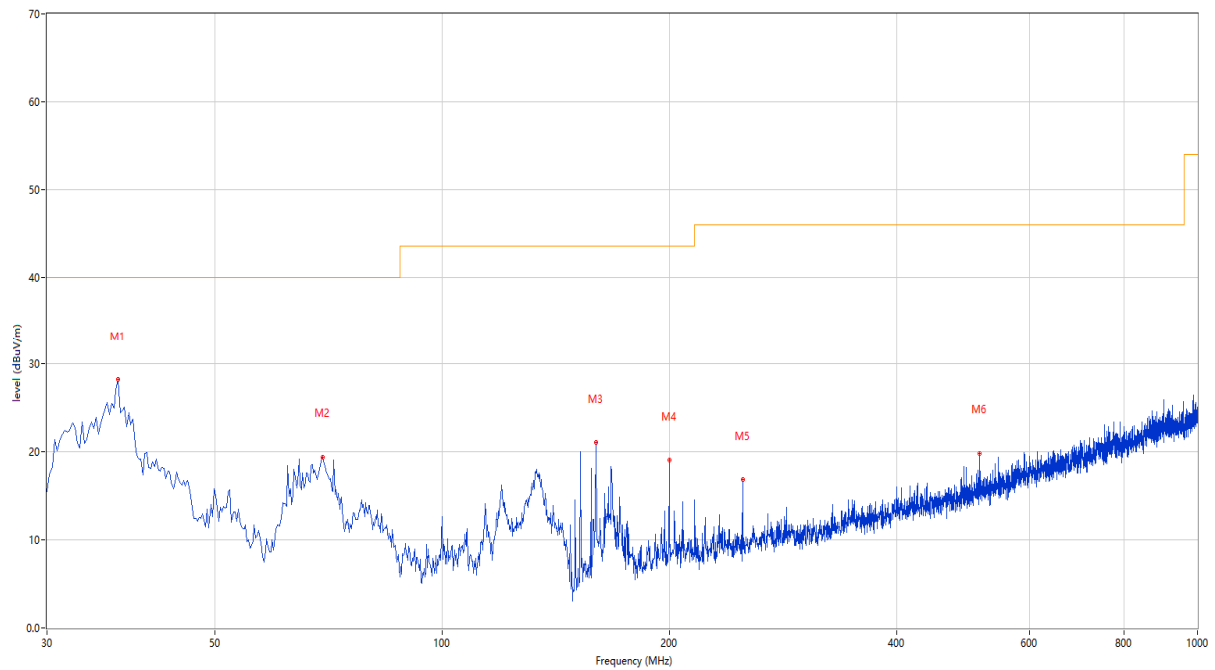
Mode 1

A.1.1 Test Antenna Vertical, 9 kHz –30 MHz



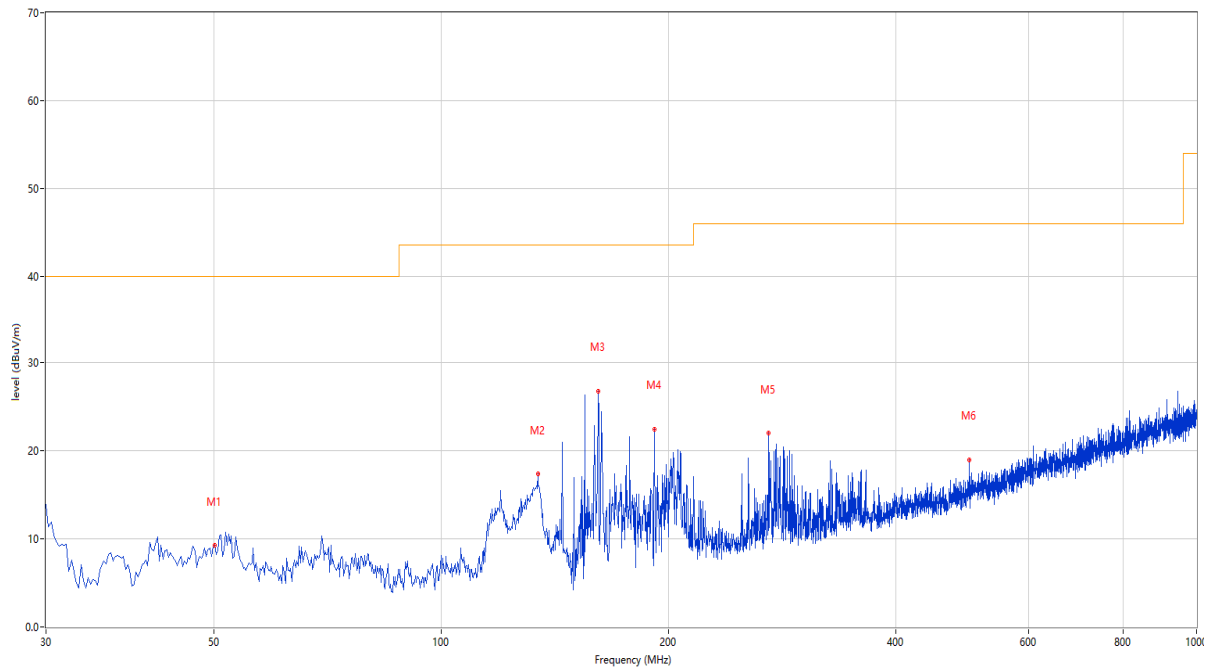
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	0.018	57.91	12.39	120.5	-62.59	Peak	4.00	100	Vertical	Pass
2	0.128	77.21	13.43	96.5	-19.29	Peak	169.00	100	Vertical	Pass
3	0.383	61.56	15.44	80.1	-18.54	Peak	162.00	100	Vertical	Pass
4	0.635	54.98	17.51	74.6	-19.62	Peak	162.00	100	Vertical	Pass
5	0.891	51.25	19.63	70.9	-19.65	Peak	155.00	100	Vertical	Pass
6	1.148	48.85	20.54	68.1	-19.25	Peak	162.00	100	Vertical	Pass

A.1.2 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	37.275	28.22	-27.13	40.0	-11.78	Peak	244.00	100	Vertical	Pass
2	69.527	19.44	-29.31	40.0	-20.56	Peak	244.00	100	Vertical	Pass
3	159.980	21.06	-28.63	43.5	-22.44	Peak	78.00	200	Vertical	Pass
4	199.992	19.05	-25.81	43.5	-24.45	Peak	351.00	200	Vertical	Pass
5	249.947	16.83	-24.72	46.0	-29.17	Peak	287.00	100	Vertical	Pass
6	515.242	19.86	-18.72	46.0	-26.14	Peak	78.00	200	Vertical	Pass

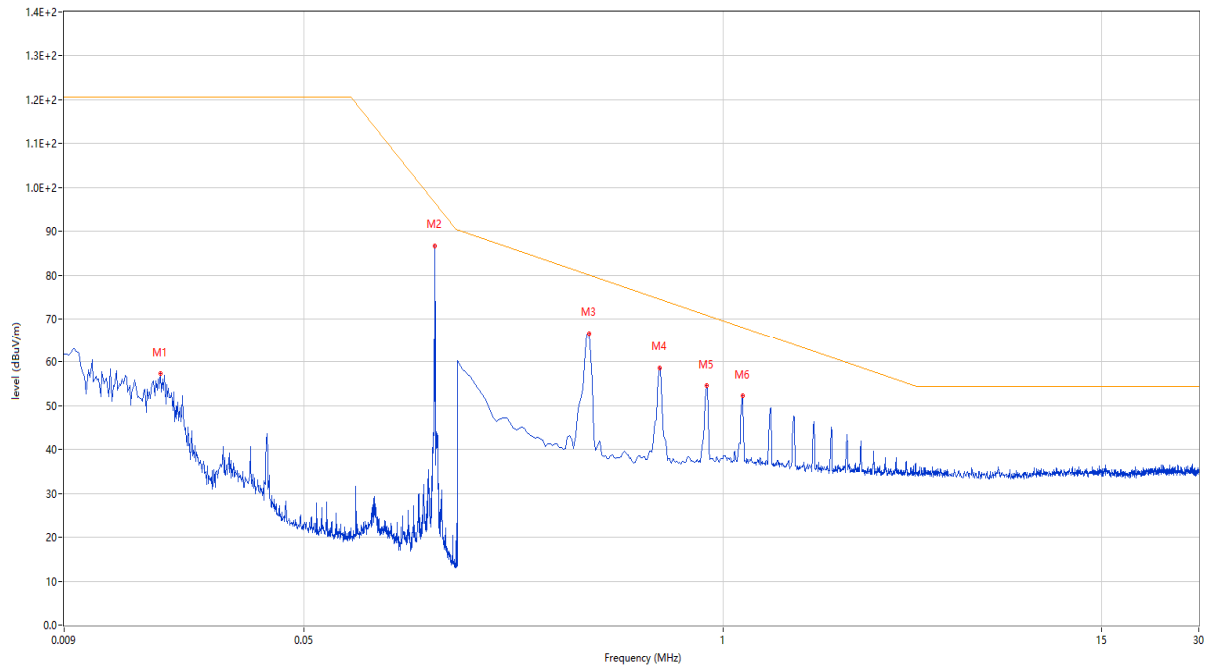
A.1.3 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	50.127	9.25	-25.28	40.0	-30.75	Peak	51.00	200	Horizontal	Pass
2	134.275	17.38	-30.77	43.5	-26.12	Peak	7.00	200	Horizontal	Pass
3	161.435	26.77	-28.39	43.5	-16.73	Peak	319.00	200	Horizontal	Pass
4	191.505	22.47	-26.28	43.5	-21.03	Peak	290.00	100	Horizontal	Pass
5	271.530	21.99	-24.14	46.0	-24.01	Peak	189.00	100	Horizontal	Pass
6	500.693	18.98	-19.16	46.0	-27.02	Peak	72.00	200	Horizontal	Pass

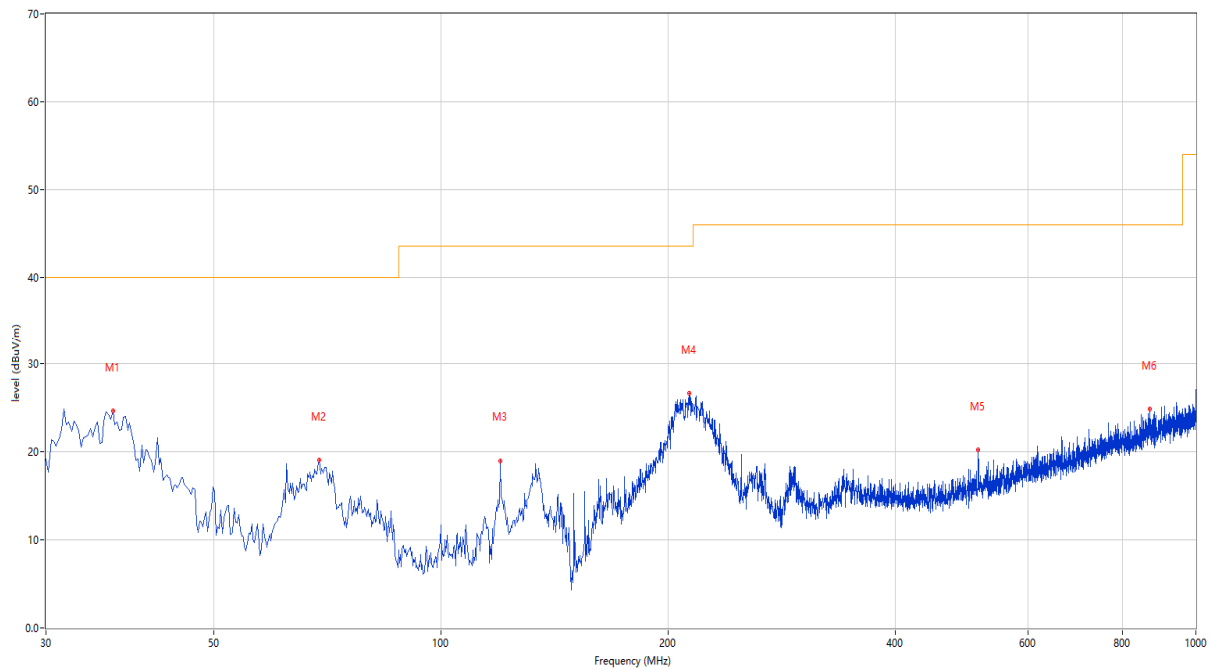
Mode 3/ Mode4(with artificial load 1)

A.1.4 Test Antenna Vertical, 9 kHz –30 MHz



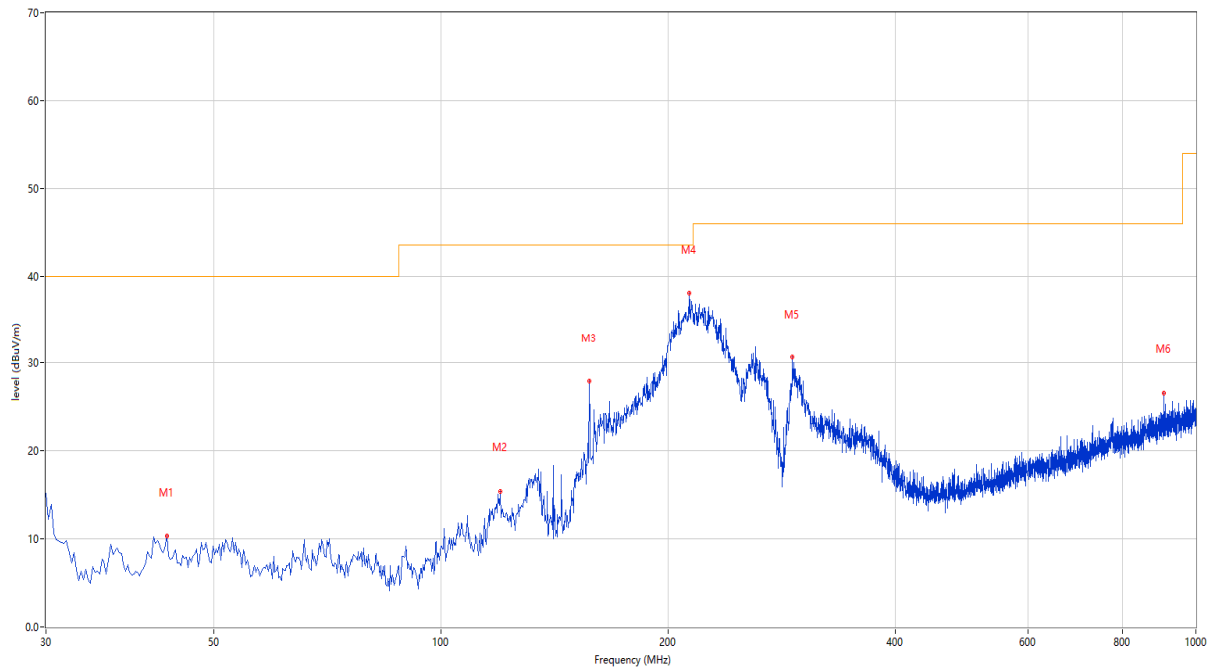
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	0.018	57.26	10.59	120.5	-63.24	Peak	359.00	100	Vertical	Pass
2	0.128	86.67	13.43	96.5	-9.83	Peak	159.00	100	Vertical	Pass
3	0.383	66.68	15.44	80.1	-13.42	Peak	168.00	100	Vertical	Pass
4	0.635	58.60	17.51	74.6	-16.00	Peak	360.00	100	Vertical	Pass
5	0.891	54.55	19.63	70.9	-16.35	Peak	360.00	100	Vertical	Pass
6	1.148	52.22	20.54	68.1	-15.88	Peak	136.00	100	Vertical	Pass

A.1.5 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	36.790	24.67	-27.45	40.0	-15.33	Peak	221.00	100	Vertical	Pass
2	69.043	19.06	-29.05	40.0	-20.94	Peak	102.00	100	Vertical	Pass
3	119.967	19.01	-28.95	43.5	-24.49	Peak	275.00	100	Vertical	Pass
4	213.087	26.63	-26.11	43.5	-16.87	Peak	22.00	200	Vertical	Pass
5	515.242	20.23	-18.72	46.0	-25.77	Peak	0.00	200	Vertical	Pass
6	869.535	24.86	-11.74	46.0	-21.14	Peak	217.00	200	Vertical	Pass

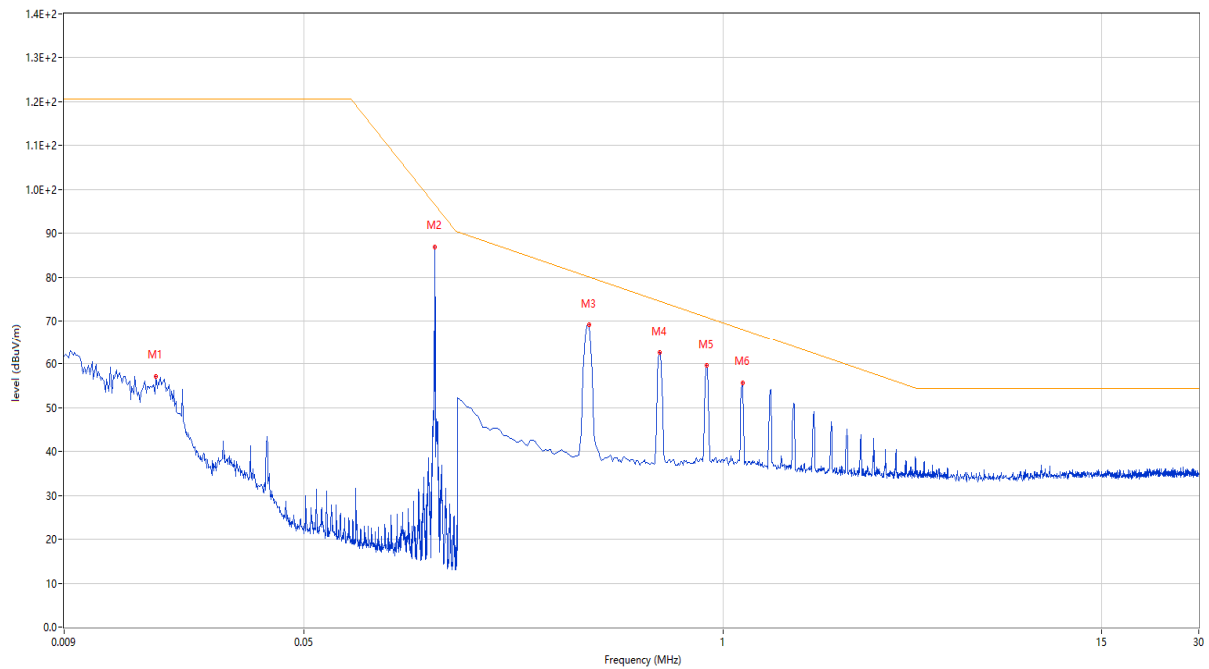
A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	43.337	10.34	-25.45	40.0	-29.66	Peak	0.00	200	Horizontal	Pass
2	119.967	15.34	-28.95	43.5	-28.16	Peak	193.00	200	Horizontal	Pass
3	157.312	27.91	-28.68	43.5	-15.59	Peak	319.00	200	Horizontal	Pass
4	213.087	38.02	-26.11	43.5	-5.48	Peak	117.00	100	Horizontal	Pass
5	292.385	30.65	-23.86	46.0	-15.35	Peak	126.00	100	Horizontal	Pass
6	906.395	26.58	-10.90	46.0	-19.42	Peak	126.00	100	Horizontal	Pass

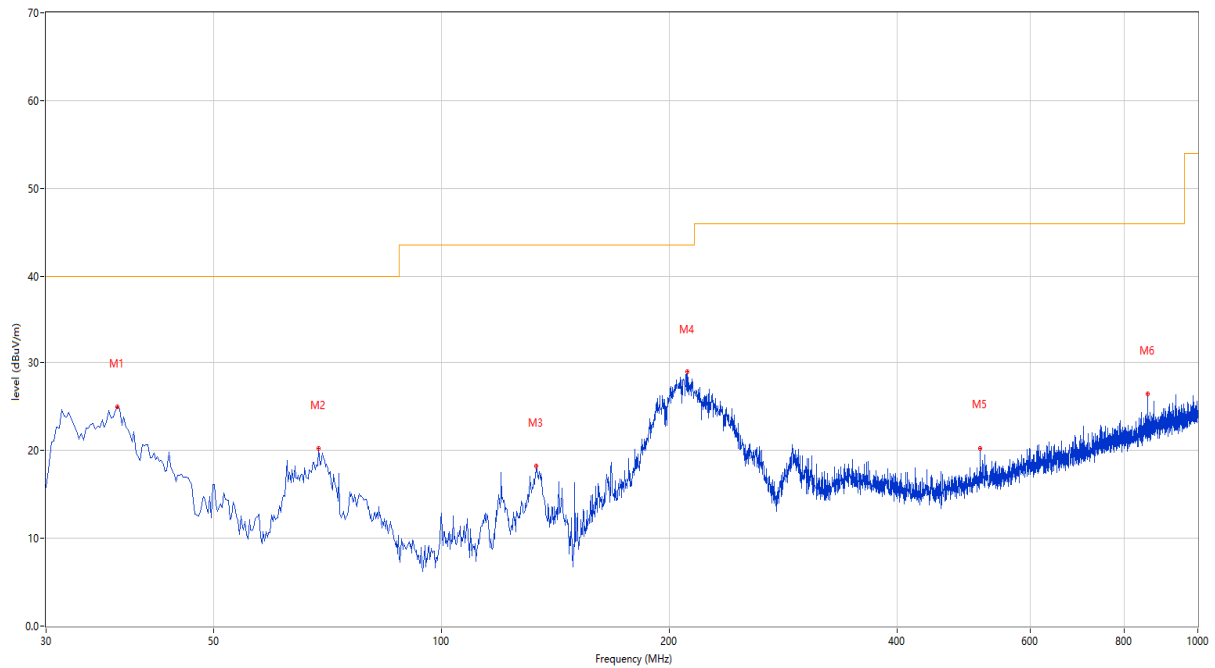
Mode 3/ Mode4(with artificial load 1+ with artificial load 2)

A.1.7 Test Antenna Vertical, 9 kHz –30 MHz



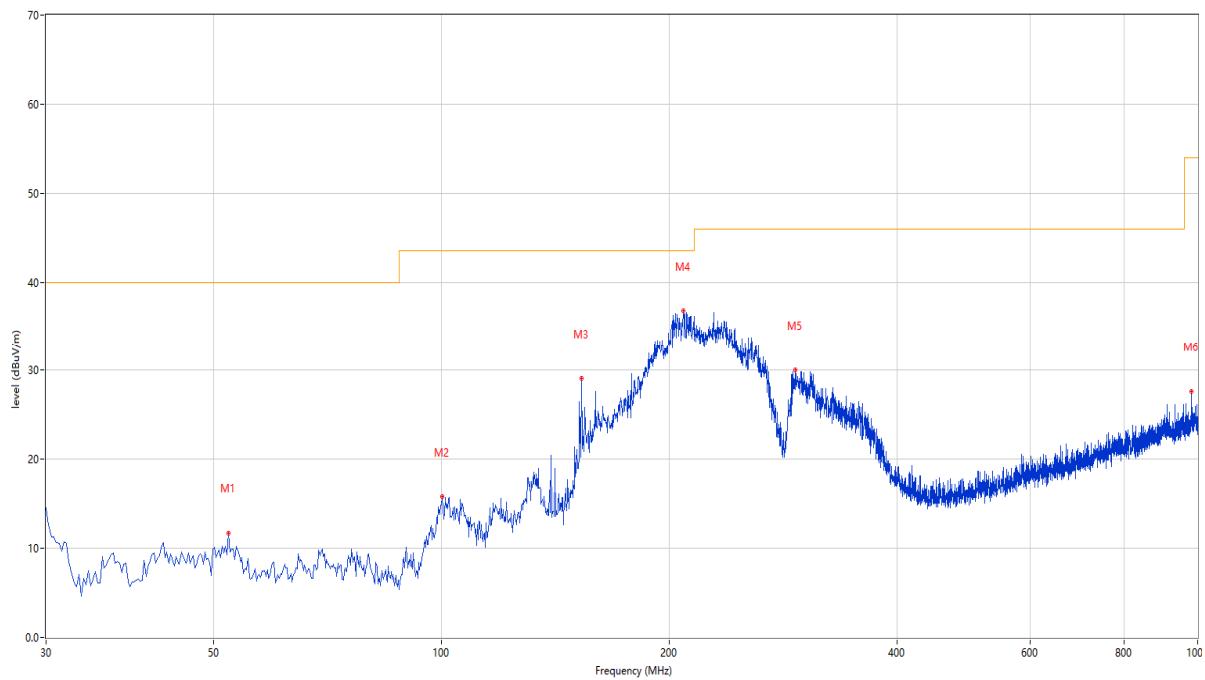
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	0.017	57.19	7.95	120.5	-63.31	Peak	130.00	100	Vertical	Pass
2	0.128	86.90	13.43	96.5	-9.60	Peak	169.00	100	Vertical	Pass
3	0.383	69.10	15.44	80.1	-11.00	Peak	175.00	100	Vertical	Pass
4	0.635	62.67	17.51	74.6	-11.93	Peak	179.00	100	Vertical	Pass
5	0.891	59.58	19.63	70.9	-11.32	Peak	172.00	100	Vertical	Pass
6	1.148	55.75	20.54	68.1	-12.35	Peak	168.00	100	Vertical	Pass

A.1.8 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	37.275	24.95	-27.13	40.0	-15.05	Peak	83.00	100	Vertical	Pass
2	68.800	20.22	-28.94	40.0	-19.78	Peak	150.00	100	Vertical	Pass
3	133.548	18.21	-30.68	43.5	-25.29	Peak	57.00	100	Vertical	Pass
4	211.390	28.99	-26.13	43.5	-14.51	Peak	359.00	200	Vertical	Pass
5	515.242	20.28	-18.72	46.0	-25.72	Peak	70.00	200	Vertical	Pass
6	859.350	26.45	-11.86	46.0	-19.55	Peak	138.00	200	Vertical	Pass

A.1.9 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	52.310	11.73	-25.41	40.0	-28.27	Peak	249.00	100	Horizontal	Pass
2	100.325	15.82	-27.09	43.5	-27.68	Peak	168.00	200	Horizontal	Pass
3	153.190	29.11	-28.73	43.5	-14.39	Peak	168.00	100	Horizontal	Pass
4	208.722	36.75	-26.10	43.5	-6.75	Peak	135.00	100	Horizontal	Pass
5	293.840	30.03	-23.90	46.0	-15.97	Peak	118.00	100	Horizontal	Pass
6	980.358	27.63	-9.83	54.0	-26.37	Peak	200.00	100	Horizontal	Pass

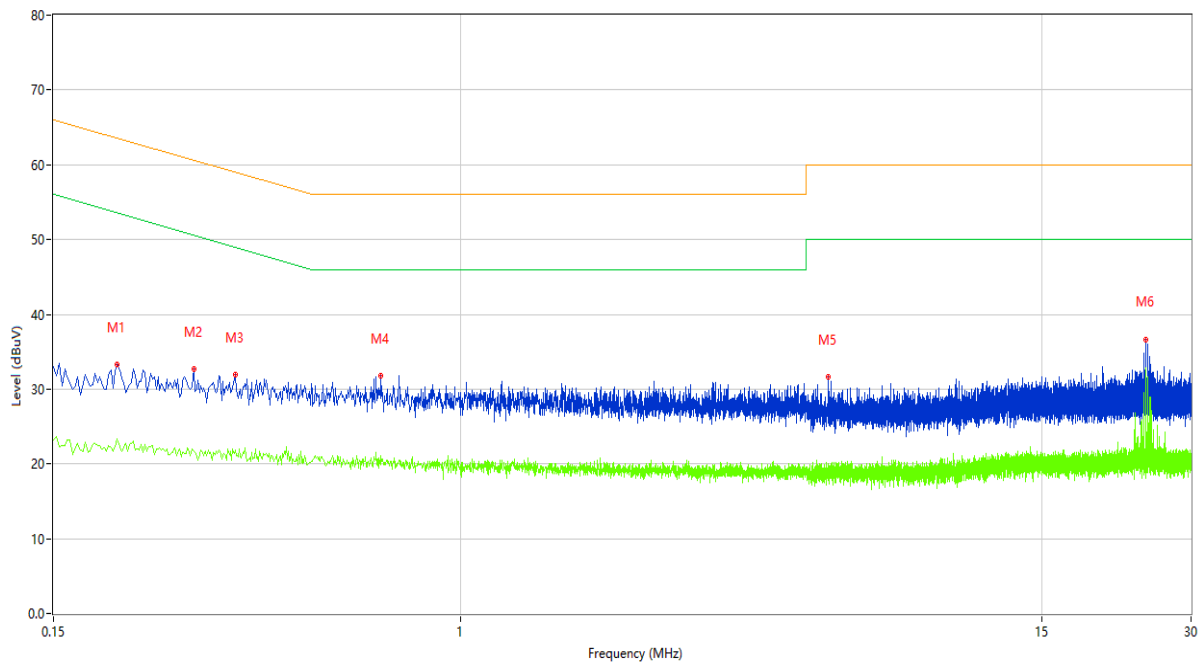
A.2 Conducted Emission

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

QI Test Data and Plots

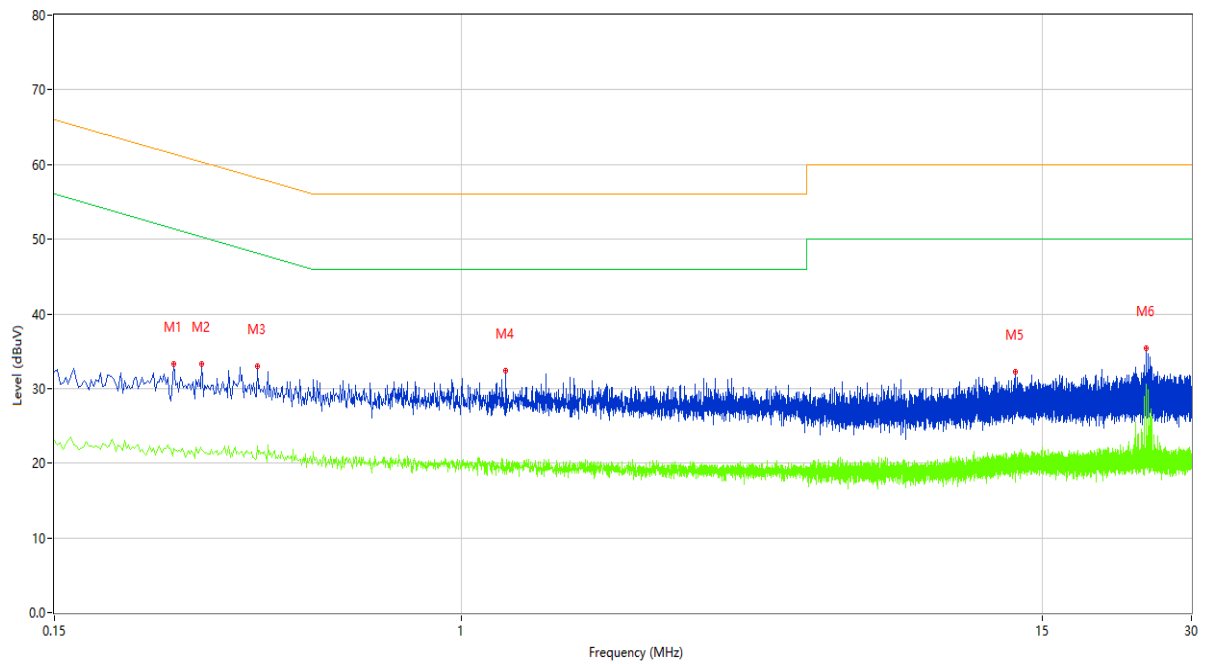
Mode 1

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.202	33.33	10.29	63.53	-30.20	Peak	L	Pass
1**	0.202	23.38	10.29	53.53	-30.15	AV	L	Pass
2	0.288	32.66	10.38	60.58	-27.92	Peak	L	Pass
2**	0.288	21.65	10.38	50.58	-28.93	AV	L	Pass
3	0.350	31.90	10.48	58.96	-27.06	Peak	L	Pass
3**	0.350	21.82	10.48	48.96	-27.14	AV	L	Pass
4	0.690	31.73	10.26	56.00	-24.27	Peak	L	Pass
4**	0.690	21.06	10.26	46.00	-24.94	AV	L	Pass
5	5.538	31.62	10.35	60.00	-28.38	Peak	L	Pass
5**	5.538	20.02	10.35	50.00	-29.98	AV	L	Pass
6	24.350	36.67	10.73	60.00	-23.33	Peak	L	Pass
6**	24.350	32.28	10.73	50.00	-17.72	AV	L	Pass

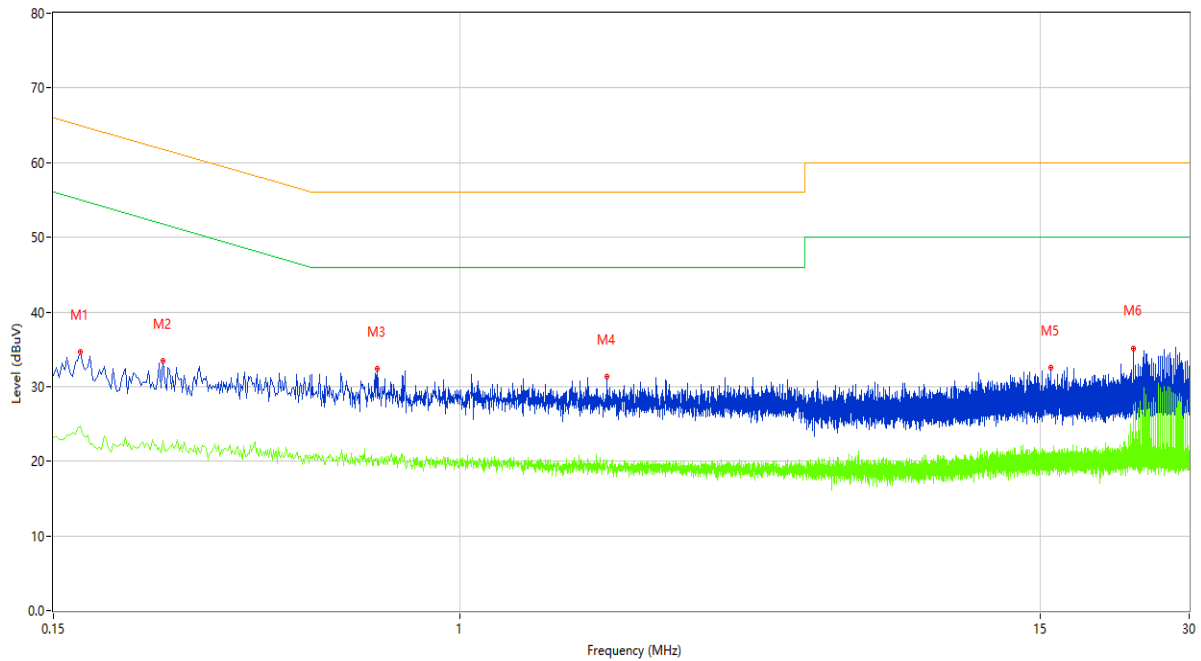
A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.262	33.26	10.36	61.37	-28.11	Peak	N	Pass
1**	0.262	22.04	10.36	51.37	-29.33	AV	N	Pass
2	0.298	33.22	10.39	60.30	-27.08	Peak	N	Pass
2**	0.298	21.88	10.39	50.30	-28.42	AV	N	Pass
3	0.386	33.00	10.50	58.15	-25.15	Peak	N	Pass
3**	0.386	22.24	10.50	48.15	-25.91	AV	N	Pass
4	1.228	32.34	10.21	56.00	-23.66	Peak	N	Pass
4**	1.228	19.42	10.21	46.00	-26.58	AV	N	Pass
5	13.194	32.26	10.34	60.00	-27.74	Peak	N	Pass
5**	13.194	20.14	10.34	50.00	-29.86	AV	N	Pass
6	24.346	35.44	10.73	60.00	-24.56	Peak	N	Pass
6**	24.346	30.14	10.73	50.00	-19.86	AV	N	Pass

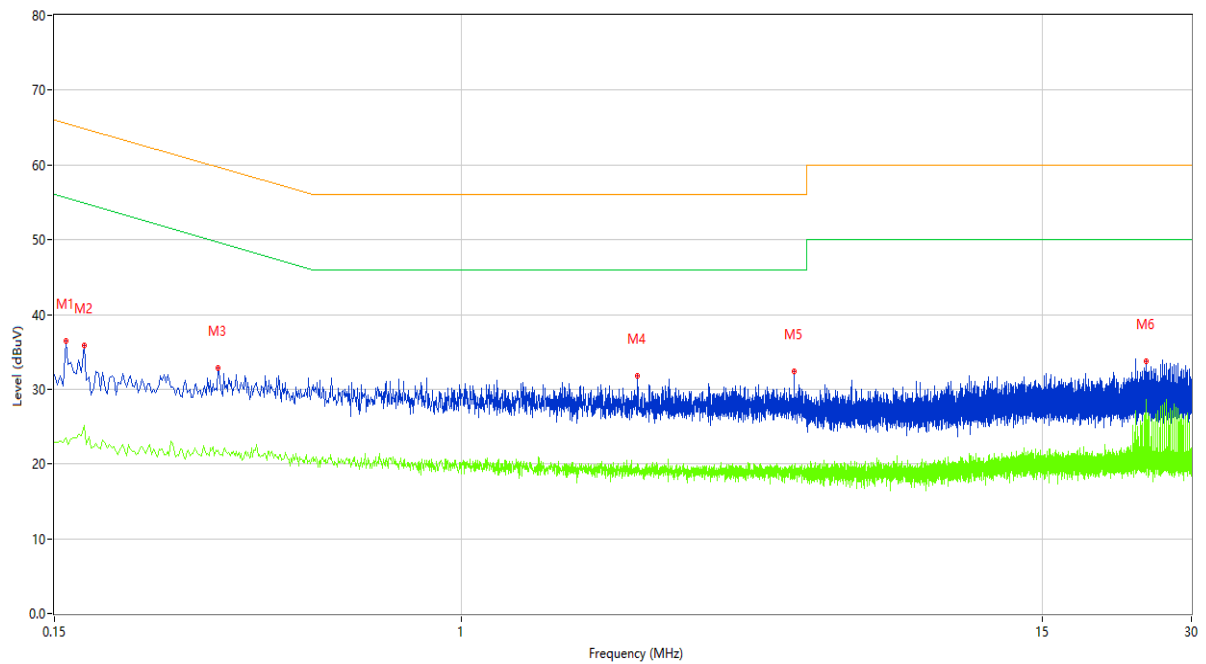
Mode 3/ Mode4(with artificial load 1)

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.170	34.67	10.13	64.96	-30.29	Peak	L	Pass
1**	0.170	24.70	10.13	54.96	-30.26	AV	L	Pass
2	0.250	33.48	10.35	61.76	-28.28	Peak	L	Pass
2**	0.250	22.69	10.35	51.76	-29.07	AV	L	Pass
3	0.678	32.38	10.23	56.00	-23.62	Peak	L	Pass
3**	0.678	20.37	10.23	46.00	-25.63	AV	L	Pass
4	1.986	31.27	10.26	56.00	-24.73	Peak	L	Pass
4**	1.986	20.14	10.26	46.00	-25.86	AV	L	Pass
5	15.718	32.54	10.57	60.00	-27.46	Peak	L	Pass
5**	15.718	19.29	10.57	50.00	-30.71	AV	L	Pass
6	23.126	35.05	10.70	60.00	-24.95	Peak	L	Pass
6**	23.126	27.61	10.70	50.00	-22.39	AV	L	Pass

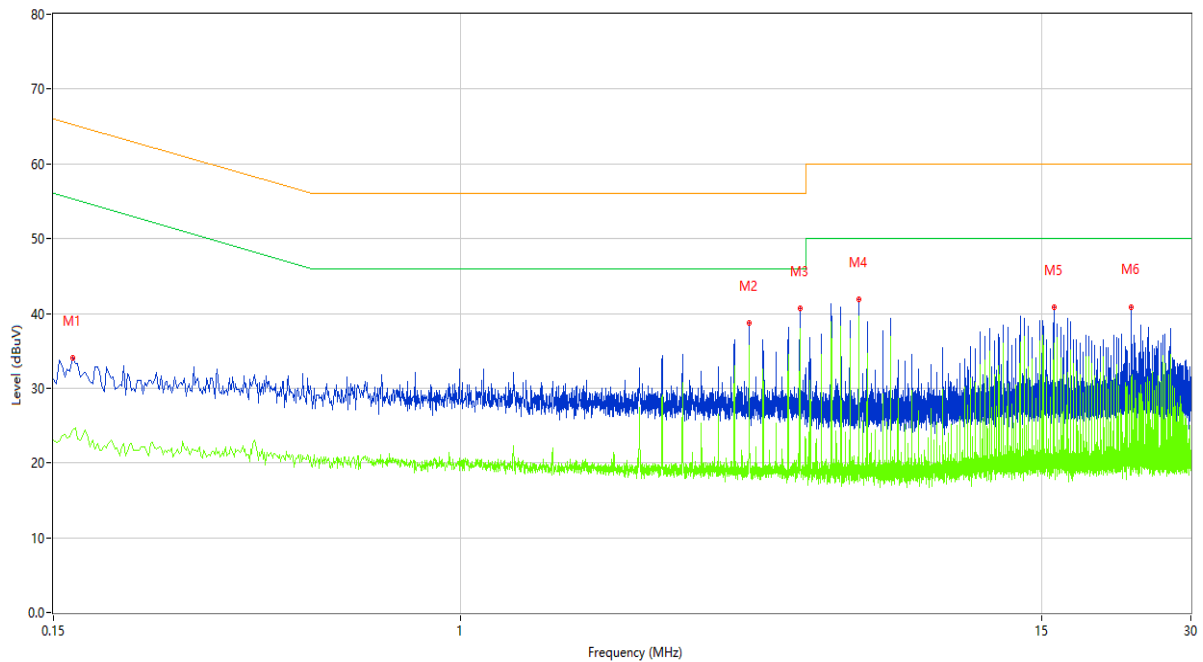
A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	31.92	10.20	66.00	-34.08	Peak	N	Pass
1**	0.150	22.86	10.20	56.00	-33.14	AV	N	Pass
2	0.172	35.84	10.14	64.86	-29.02	Peak	N	Pass
2**	0.172	25.18	10.14	54.86	-29.68	AV	N	Pass
3	0.322	32.85	10.43	59.66	-26.81	Peak	N	Pass
3**	0.322	21.89	10.43	49.66	-27.77	AV	N	Pass
4	2.272	31.72	10.21	56.00	-24.28	Peak	N	Pass
4**	2.272	19.73	10.21	46.00	-26.27	AV	N	Pass
5	4.708	32.37	10.45	56.00	-23.63	Peak	N	Pass
5**	4.708	19.33	10.45	46.00	-26.67	AV	N	Pass
6	24.348	33.79	10.73	60.00	-26.21	Peak	N	Pass
6**	24.348	28.63	10.73	50.00	-21.37	AV	N	Pass

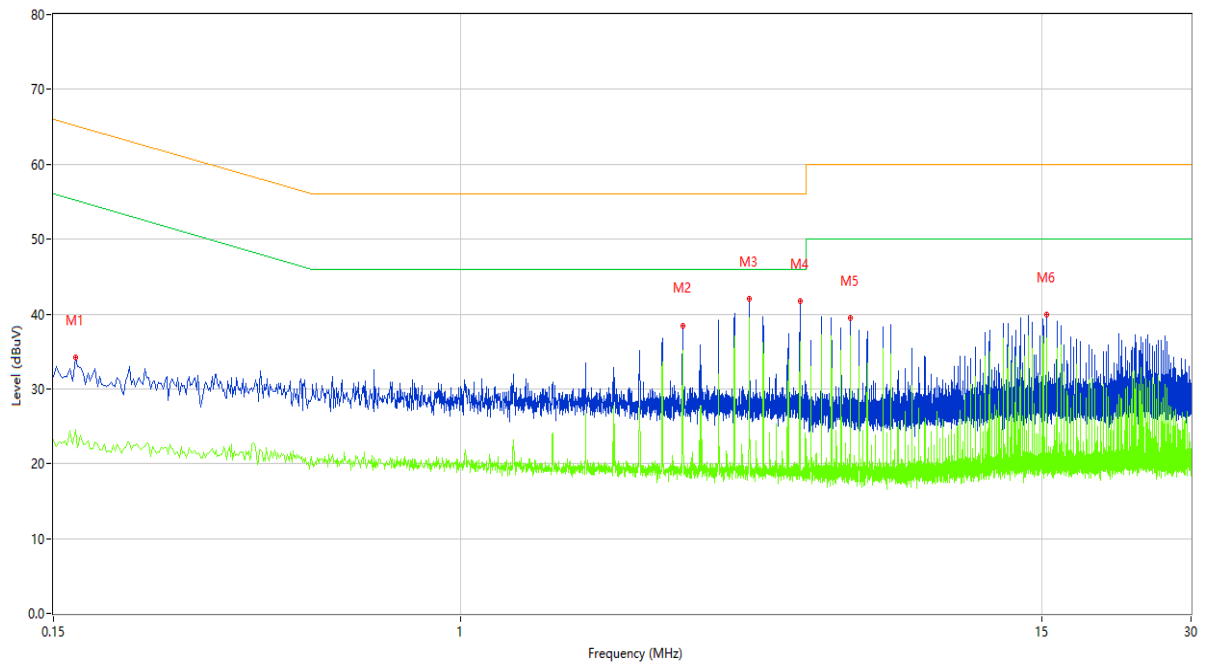
Mode 3/ Mode4(with artificial load 1+ with artificial load 2)

A.2.5 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.164	34.05	10.14	65.26	-31.21	Peak	L	Pass
1**	0.164	24.38	10.14	55.26	-30.88	AV	L	Pass
2	3.832	38.69	10.43	56.00	-17.31	Peak	L	Pass
2**	3.832	35.54	10.43	46.00	-10.46	AV	L	Pass
3	4.854	40.72	10.35	56.00	-15.28	Peak	L	Pass
3**	4.854	37.76	10.35	46.00	-8.24	AV	L	Pass
4	6.388	41.93	10.28	60.00	-18.07	Peak	L	Pass
4**	6.388	39.61	10.28	50.00	-10.39	AV	L	Pass
5	15.842	40.85	10.72	60.00	-19.15	Peak	L	Pass
5**	15.842	35.98	10.72	50.00	-14.02	AV	L	Pass
6	22.746	40.87	10.70	60.00	-19.13	Peak	L	Pass
6**	22.746	31.28	10.70	50.00	-18.72	AV	L	Pass

A.2.6 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.164	31.00	10.14	65.26	-34.26	Peak	N	Pass
1**	0.164	22.60	10.14	55.26	-32.66	AV	N	Pass
2	2.810	38.36	10.31	56.00	-17.64	Peak	N	Pass
2**	2.810	34.79	10.31	46.00	-11.21	AV	N	Pass
3	3.832	42.05	10.43	56.00	-13.95	Peak	N	Pass
3**	3.832	39.02	10.43	46.00	-6.98	AV	N	Pass
4	4.856	41.68	10.35	56.00	-14.32	Peak	N	Pass
4**	4.856	35.41	10.35	46.00	-10.59	AV	N	Pass
5	6.130	39.48	10.30	60.00	-20.52	Peak	N	Pass
5**	6.130	37.00	10.30	50.00	-13.00	AV	N	Pass
6	15.332	39.89	10.69	60.00	-20.11	Peak	N	Pass
6**	15.332	36.76	10.69	50.00	-13.24	AV	N	Pass

A.3 20 dB Bandwidth

Note: Please refer to the Report No. BL-EC2070405-402 (which issued by Shenzhen BALUN Technology Co., Ltd. on Aug. 06, 2020).

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-EC2120070-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-EC2120070-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-EC2120070-AI.PDF”.

--END OF REPORT--