

FCC

RF

TEST REPORT

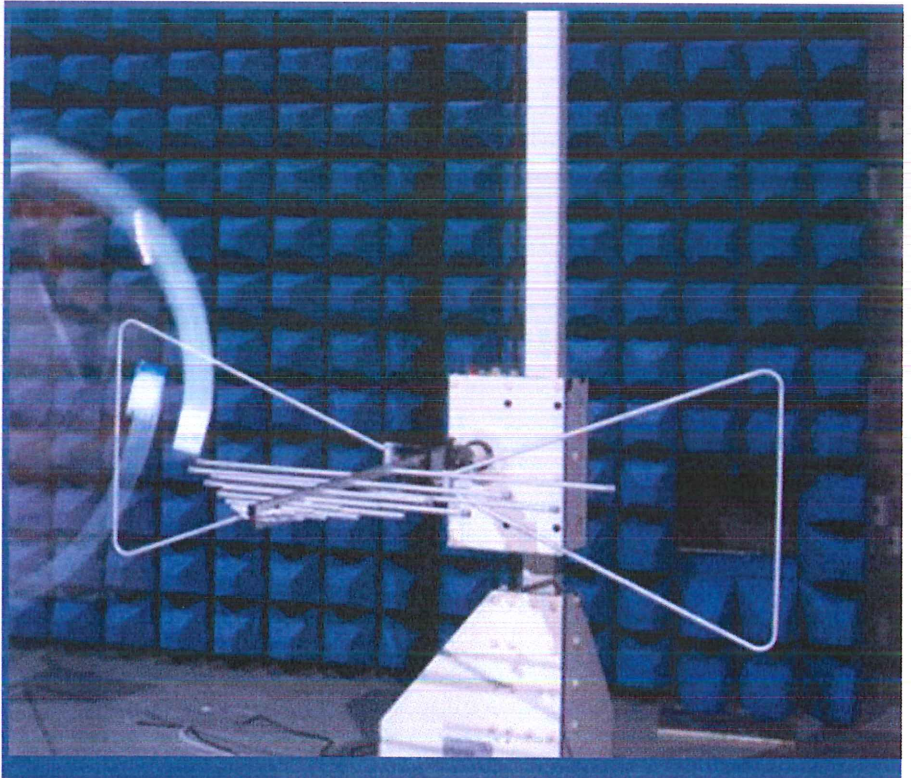
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Wireless charging pad

ISSUED TO
JACS Solutions, Inc.

809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090



Tested by: Xiong Chong
Xiong Chong
Date Mar. 05, 2021

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)
Date Mar. 05, 2021



Report No.: BL-SZ2110528-402
EUT Name: Wireless charging pad
Model Name: CP75C
Brand Name: N/A
Test Standard: 47 CFR Part 15 Subpart C
FCC ID: 2AGCDJACSCP75C1

Test Conclusion: Pass
Test Date: Jan. 22, 2021 ~ Jan. 25, 2021
Date of Issue: Mar. 05, 2021

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Mar. 05, 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	JACS Solutions, Inc.
Address	809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090

2.2 Manufacturer Information

Manufacturer	JACS Solutions, Inc.
Address	809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Wireless charging pad
Model Name Under Test	CP75C
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	ZW-ZWY-TG801 -20201012-V1.2
Software Version	8A1E
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Note: No Applicable.

2.6 Technical Information

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

Operating Frequency	119~173 kHz
Product Type	<input checked="" type="checkbox"/> Fix Location
Antenna Type	Coil Antenna
About Product	The EUT support the PWM technology.

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 15.209	Pass 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: The EUT have two work modes: Mode1: EUT + USB Cable + Adapter Mode2: EUT + USB Cable + Adapter + Tablet				

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

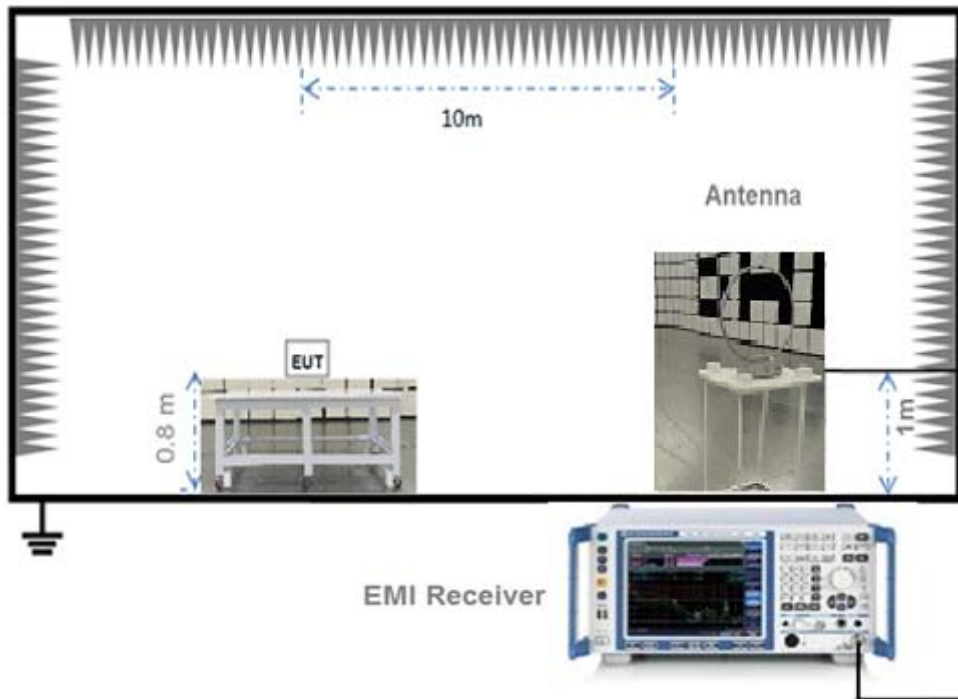
Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	USB 5V

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	--	--

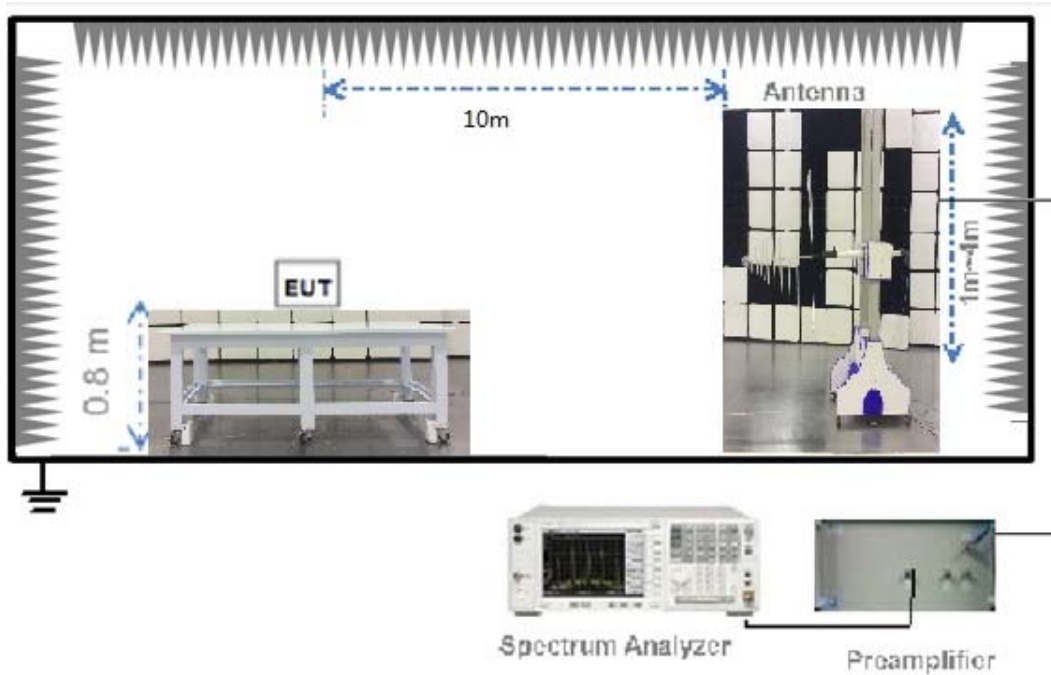
4.3 Test Setups

Test Setup 1



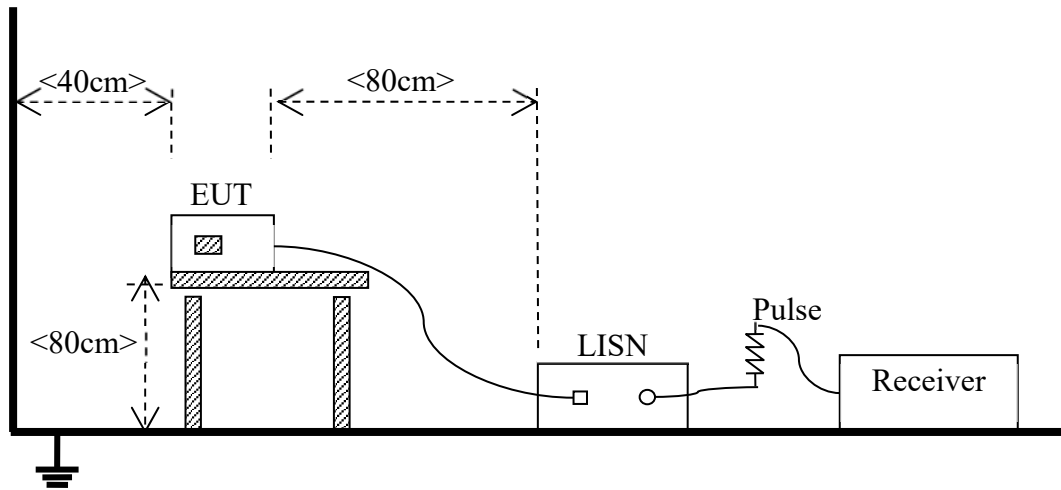
For Radiated Emission Test (Below 30 MHz))

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 ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(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 (dB $\mu\text{V}/\text{m}$) = $20 \cdot \log$ [Field Strength ($\mu\text{V}/\text{m}$)].
- 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 dBuV/m@3 m (AV) and 74 dBuV/m@3 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 = $20 \cdot \log (2400/9) + 40 \log (300/10) = 107.5$ (dB $\mu\text{V}/\text{m}$).
- 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 = $20 \cdot \log (100) + 20 \log (3/10) = 29.5$ (dB $\mu\text{V}/\text{m}$).

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

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

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

5.1.2 Conducted Emission

5.1.2.1 Test Limit

Frequency range (MHz)	Conducted Limit (dB μ V)	
	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 μ H 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:

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

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

$$2. \text{ Factor} = \text{Insertion loss} + \text{Cable loss}$$

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

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

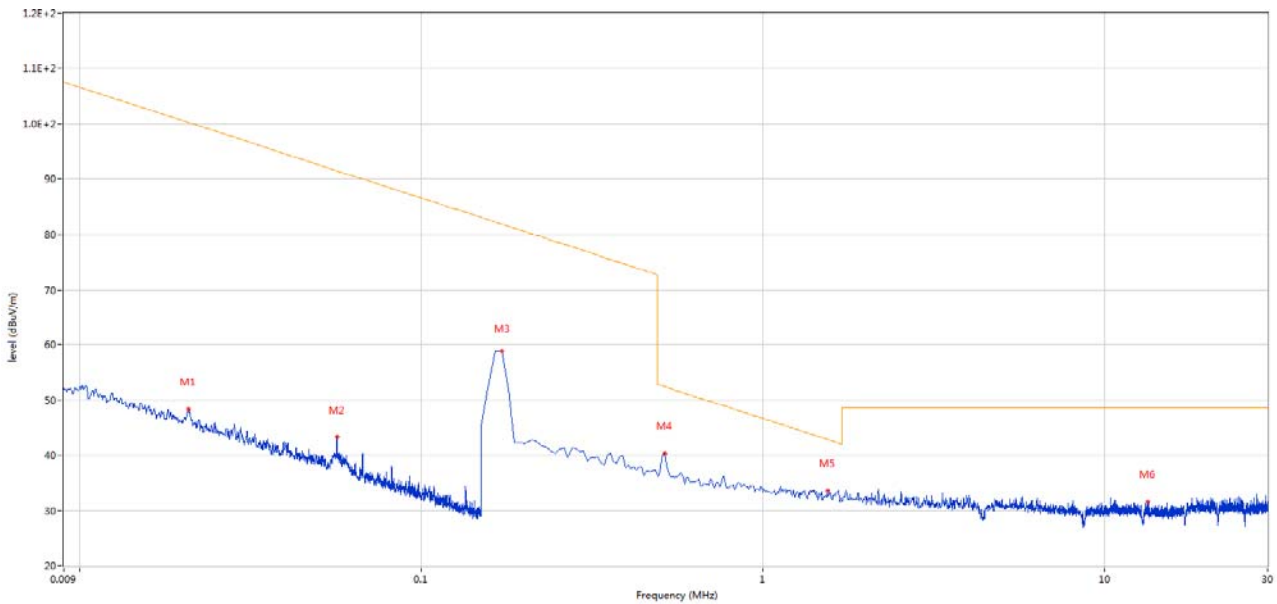
A.1 Radiated Emission

Note 1: The symbol of "--" in the table which means not application.

Note 2: 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.

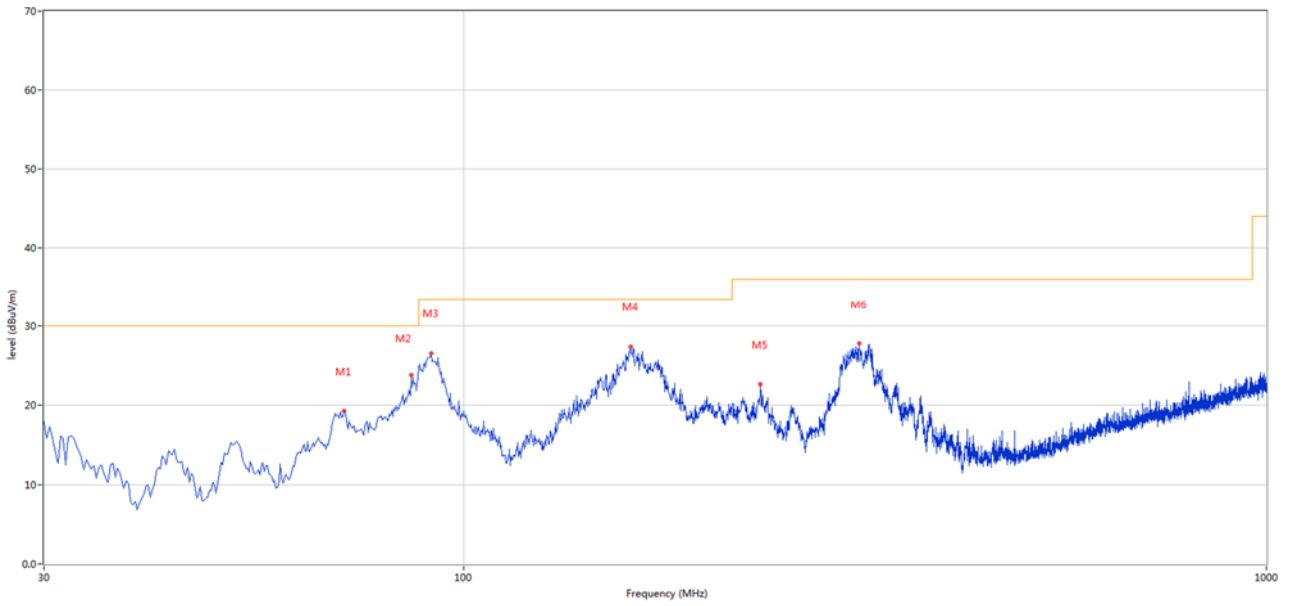
PWM Test Data and Plots (Mode 1)

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



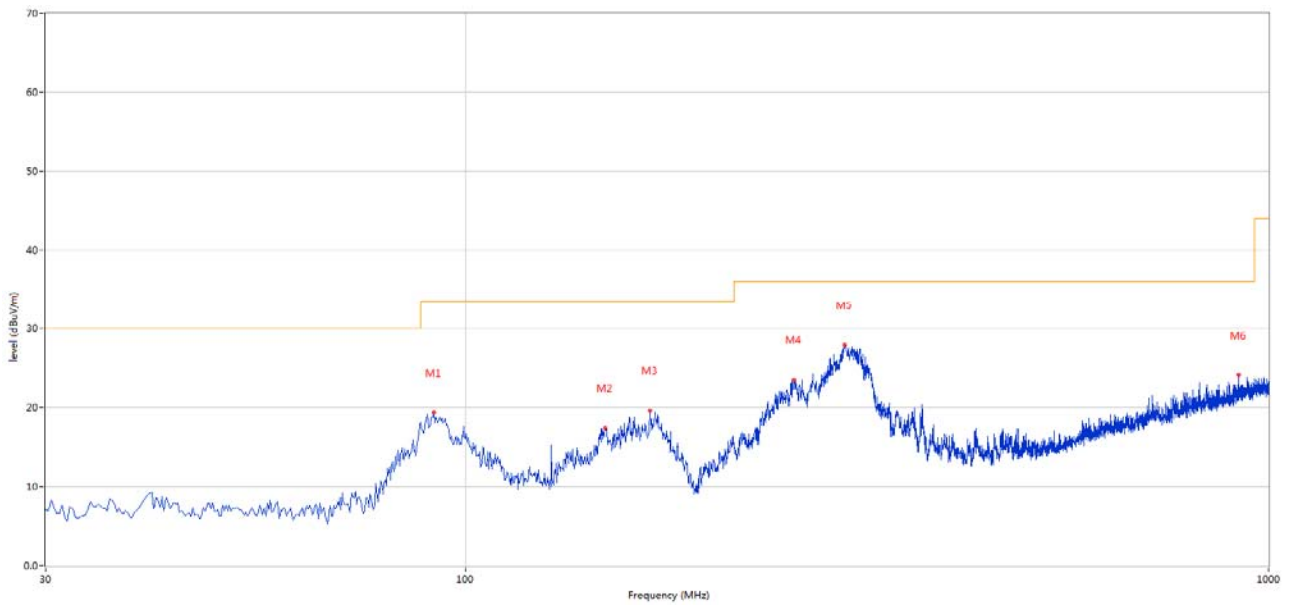
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.021	47.82	20.22	100.2	-52.38	Peak	359.00	100	Vertical	Pass
2	0.057	43.27	20.20	91.5	-48.23	Peak	0.00	100	Vertical	Pass
3	0.172	58.79	20.10	81.9	-23.11	Peak	53.00	100	Vertical	N/A
4	0.516	40.32	20.27	52.4	-12.08	Peak	141.00	100	Vertical	Pass
5	1.545	33.48	20.51	42.8	-9.32	Peak	150.00	100	Vertical	Pass
6	13.418	31.57	20.89	48.5	-16.93	Peak	0.00	100	Vertical	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	70.972	19.24	-29.95	30.0	-10.76	Peak	275.00	200	Vertical	Pass
2	86.003	23.76	-31.11	30.0	-6.24	Peak	270.00	200	Vertical	Pass
3	91.095	26.52	-31.01	33.5	-6.98	Peak	265.00	200	Vertical	Pass
4	161.402	27.37	-25.87	33.5	-6.13	Peak	145.00	100	Vertical	Pass
5	234.134	22.60	-27.99	36.0	-13.40	Peak	35.00	100	Vertical	Pass
6	310.745	27.78	-25.44	36.0	-8.22	Peak	171.00	100	Vertical	Pass

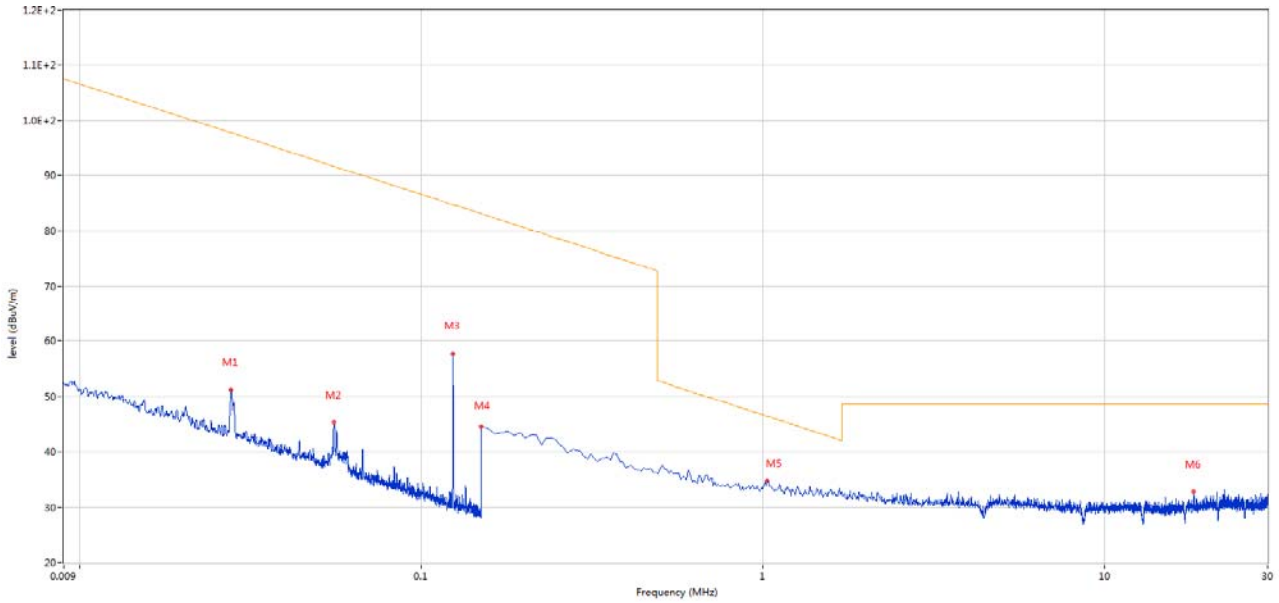
A.1.3 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	91.337	19.32	-30.98	33.5	-14.18	Peak	360.00	400	Horizontal	Pass
2	149.280	17.40	-25.94	33.5	-16.10	Peak	119.00	400	Horizontal	Pass
3	169.645	19.60	-26.68	33.5	-13.90	Peak	129.00	400	Horizontal	Pass
4	256.438	23.53	-27.23	36.0	-12.47	Peak	265.00	400	Horizontal	Pass
5	296.198	27.93	-26.17	36.0	-8.07	Peak	282.00	300	Horizontal	Pass
6	916.843	24.05	-12.00	36.0	-11.95	Peak	360.00	200	Horizontal	Pass

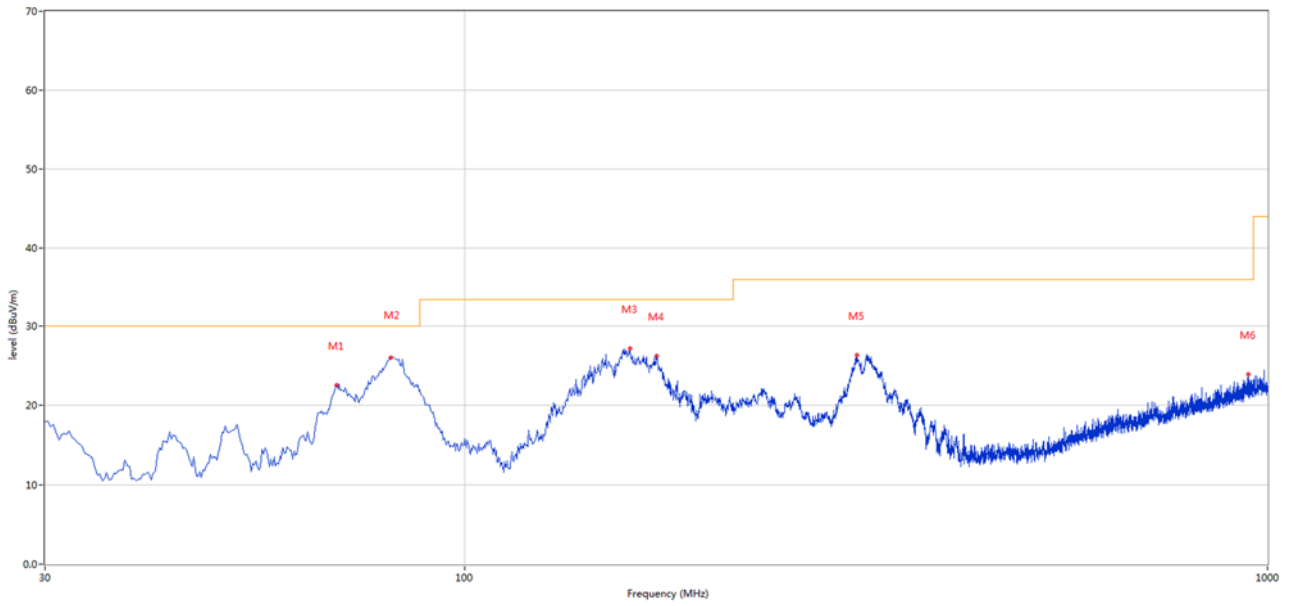
PWM Test Data and Plots (Mode 2)

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



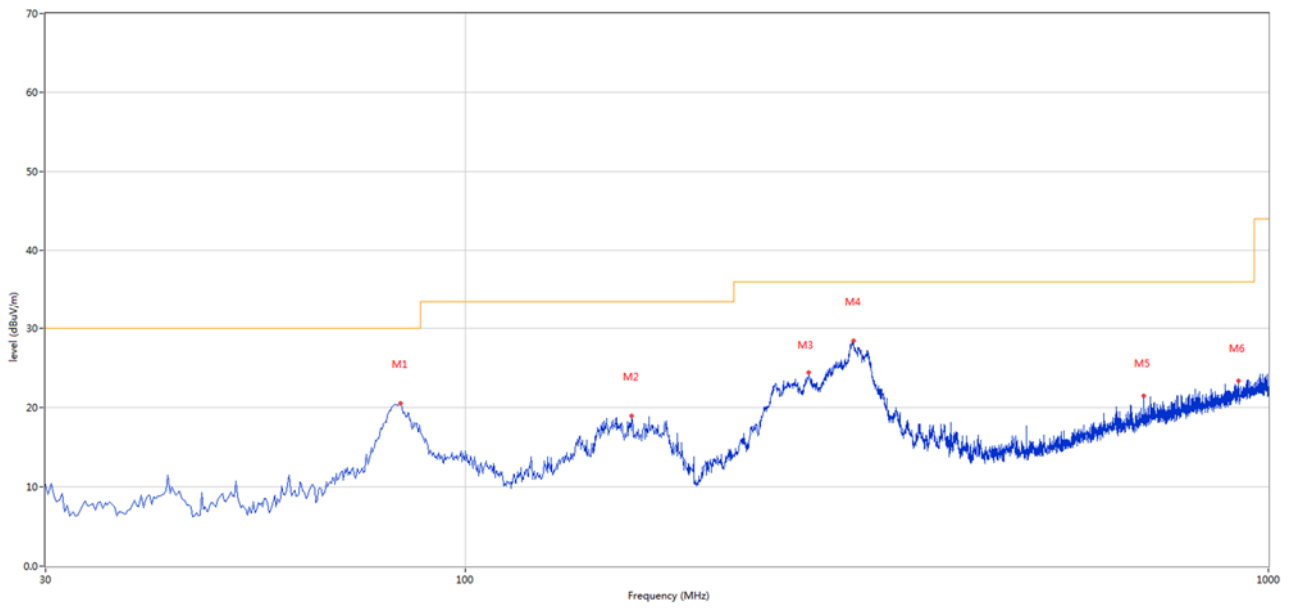
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.028	50.72	20.18	97.8	-47.08	Peak	157.00	100	Vertical	Pass
2	0.056	44.85	20.21	91.7	-46.85	Peak	1.00	100	Vertical	Pass
3	0.124	57.41	20.16	84.7	-27.29	Peak	193.00	100	Vertical	N/A
4	0.150	28.25	20.15	83.1	-54.85	Peak	0.00	100	Vertical	Pass
5	1.031	34.75	20.56	46.3	-11.55	Peak	27.00	100	Vertical	Pass
6	18.224	32.75	21.04	48.5	-15.75	Peak	256.00	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 (Degree)	Height (cm)	Antenna	Verdict
1	69.275	22.53	-29.60	30.0	-7.47	Peak	1.00	400	Vertical	Pass
2	80.912	26.03	-31.23	30.0	-3.97	Peak	63.00	400	Vertical	Pass
3	160.675	27.11	-25.85	33.5	-6.39	Peak	65.00	100	Vertical	Pass
4	173.282	26.17	-27.18	33.5	-7.33	Peak	35.00	100	Vertical	Pass
5	308.078	26.26	-25.64	36.0	-9.74	Peak	0.00	100	Vertical	Pass
6	946.906	23.84	-11.72	36.0	-12.16	Peak	280.00	200	Vertical	Pass

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

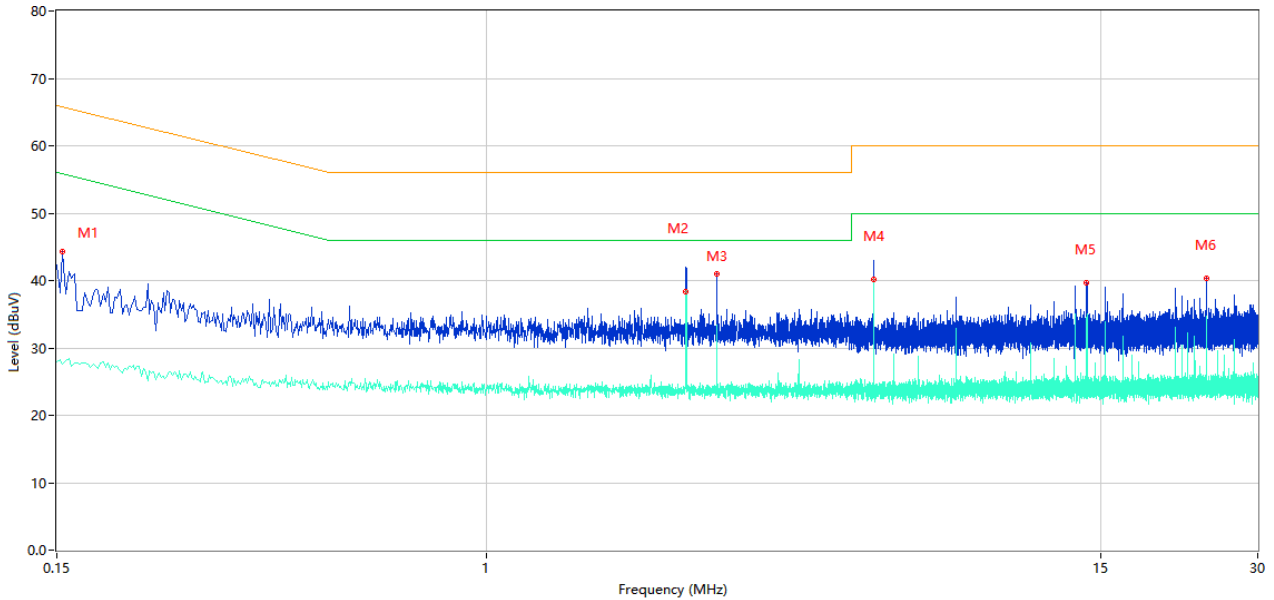


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	83.094	20.53	-31.31	30.0	-9.47	Peak	197.00	400	Horizontal	Pass
2	161.160	18.95	-25.87	33.5	-14.55	Peak	110.00	400	Horizontal	Pass
3	267.591	24.44	-26.73	36.0	-11.56	Peak	284.00	400	Horizontal	Pass
4	304.199	28.43	-25.53	36.0	-7.57	Peak	292.00	300	Horizontal	Pass
5	699.860	21.50	-16.18	36.0	-14.50	Peak	221.00	100	Horizontal	Pass
6	918.055	23.41	-11.88	36.0	-12.59	Peak	287.00	100	Horizontal	Pass

A.2 Conducted Emission

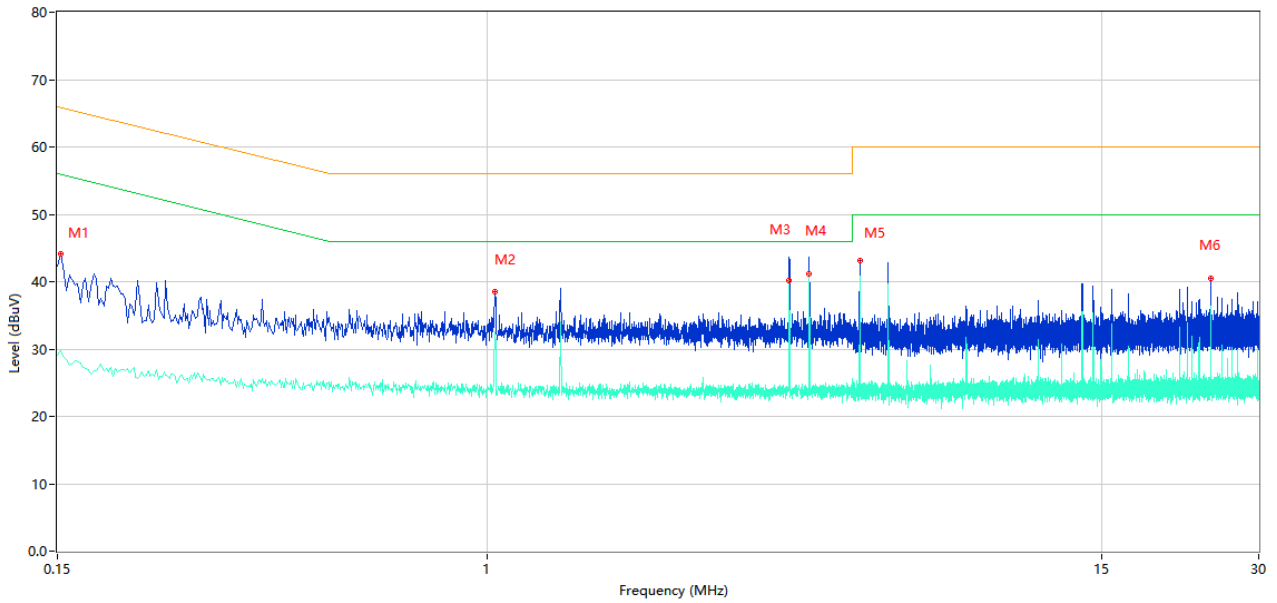
PWM Test Data and Plots (Mode 1)

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.154	44.23	10.41	65.78	-21.55	Peak	L	Pass
1**	0.154	27.66	10.41	55.78	-28.12	AV	L	Pass
2	2.410	42.04	10.27	56.00	-13.96	Peak	L	Pass
2**	2.410	38.40	10.27	46.00	-7.60	AV	L	Pass
3	2.758	41.04	10.28	56.00	-14.96	Peak	L	Pass
3**	2.758	33.35	10.28	46.00	-12.65	AV	L	Pass
4	5.512	42.97	10.32	60.00	-17.03	Peak	L	Pass
4**	5.512	40.16	10.32	50.00	-9.84	AV	L	Pass
5	14.118	39.59	10.40	60.00	-20.41	Peak	L	Pass
5**	14.118	34.19	10.40	50.00	-15.81	AV	L	Pass
6	23.938	40.29	10.63	60.00	-19.71	Peak	L	Pass
6**	23.938	31.17	10.63	50.00	-18.83	AV	L	Pass

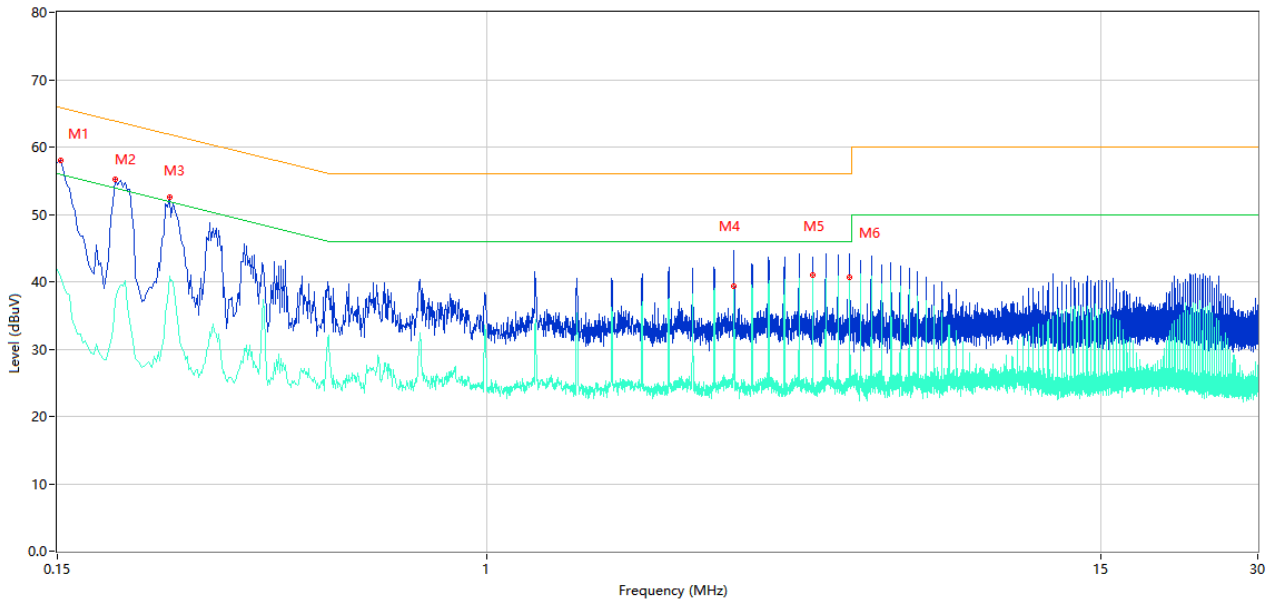
A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	44.13	10.41	65.89	-21.76	Peak	N	Pass
1**	0.152	29.71	10.41	55.89	-26.18	AV	N	Pass
2	1.034	38.56	10.23	56.00	-17.44	Peak	N	Pass
2**	1.034	32.62	10.23	46.00	-13.38	AV	N	Pass
3	3.786	43.63	10.30	56.00	-12.37	Peak	N	Pass
3**	3.786	40.20	10.30	46.00	-5.80	AV	N	Pass
4	4.132	43.56	10.31	56.00	-12.44	Peak	N	Pass
4**	4.132	41.16	10.31	46.00	-4.84	AV	N	Pass
5	5.164	43.21	10.31	60.00	-16.79	Peak	N	Pass
5**	5.164	39.91	10.31	50.00	-10.09	AV	N	Pass
6	24.280	40.47	10.64	60.00	-19.53	Peak	N	Pass
6**	24.280	34.75	10.64	50.00	-15.25	AV	N	Pass

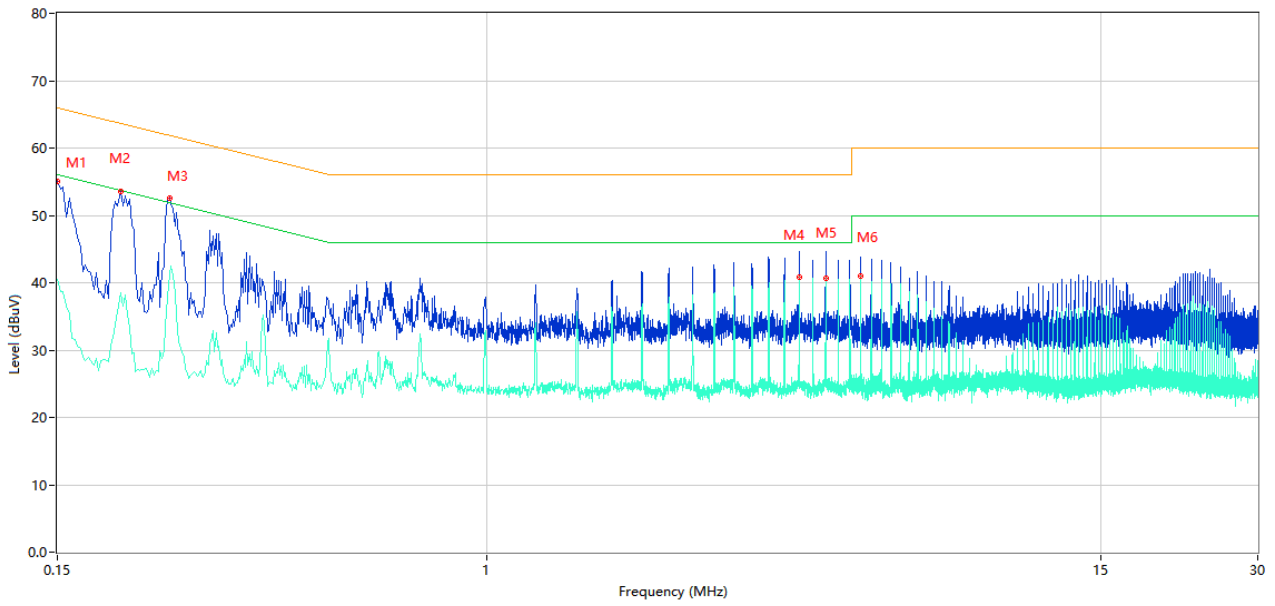
PWM Test Data and Plots (Mode 2)

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	57.94	10.41	65.89	-7.95	Peak	L	Pass
1**	0.152	40.67	10.41	55.89	-15.22	AV	L	Pass
2	0.194	55.17	10.38	63.86	-8.69	Peak	L	Pass
2**	0.194	37.23	10.38	53.86	-16.63	AV	L	Pass
3	0.246	52.52	10.34	61.89	-9.37	Peak	L	Pass
3**	0.246	40.85	10.34	51.89	-11.04	AV	L	Pass
4	2.972	44.61	10.29	56.00	-11.39	Peak	L	Pass
4**	2.972	39.39	10.29	46.00	-6.61	AV	L	Pass
5	4.210	43.35	10.31	56.00	-12.65	Peak	L	Pass
5**	4.210	40.93	10.31	46.00	-5.07	AV	L	Pass
6	4.954	43.54	10.32	56.00	-12.46	Peak	L	Pass
6**	4.954	40.66	10.32	46.00	-5.34	AV	L	Pass

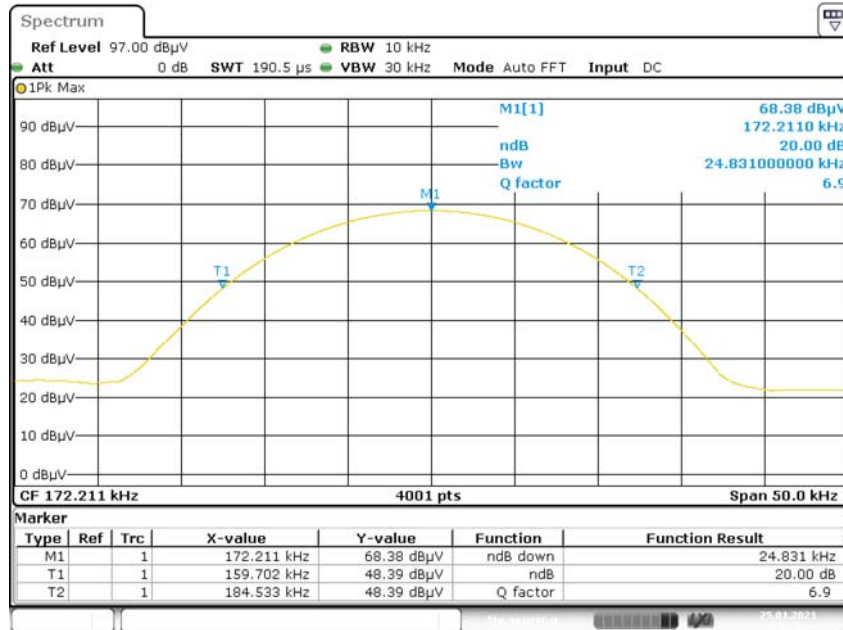
A.2.4 N Phase



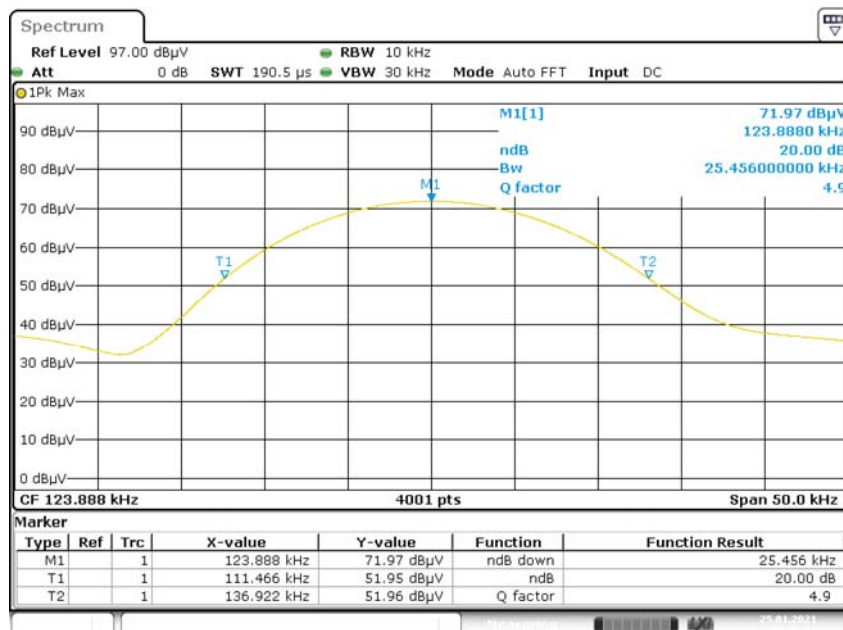
No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	55.10	10.41	66.00	-10.90	Peak	N	Pass
1**	0.150	40.56	10.41	56.00	-15.44	AV	N	Pass
2	0.198	53.50	10.38	63.69	-10.19	Peak	N	Pass
2**	0.198	38.58	10.38	53.69	-15.11	AV	N	Pass
3	0.246	52.57	10.34	61.89	-9.32	Peak	N	Pass
3**	0.246	41.24	10.34	51.89	-10.65	AV	N	Pass
4	3.964	44.71	10.29	56.00	-11.29	Peak	N	Pass
4**	3.964	40.85	10.29	46.00	-5.15	AV	N	Pass
5	4.460	43.80	10.30	56.00	-12.20	Peak	N	Pass
5**	4.460	40.61	10.30	46.00	-5.39	AV	N	Pass
6	5.204	42.92	10.32	60.00	-17.08	Peak	N	Pass
6**	5.204	41.07	10.32	50.00	-8.93	AV	N	Pass

A.3 20 dB Bandwidth

PWM Test Data and Plots (Mode 1)

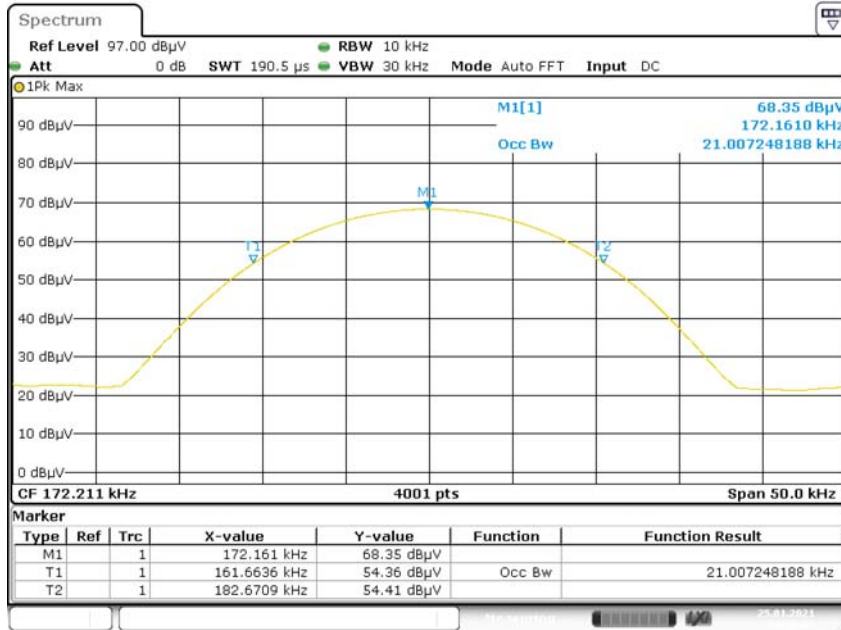


PWM Test Data and Plots (Mode 2)



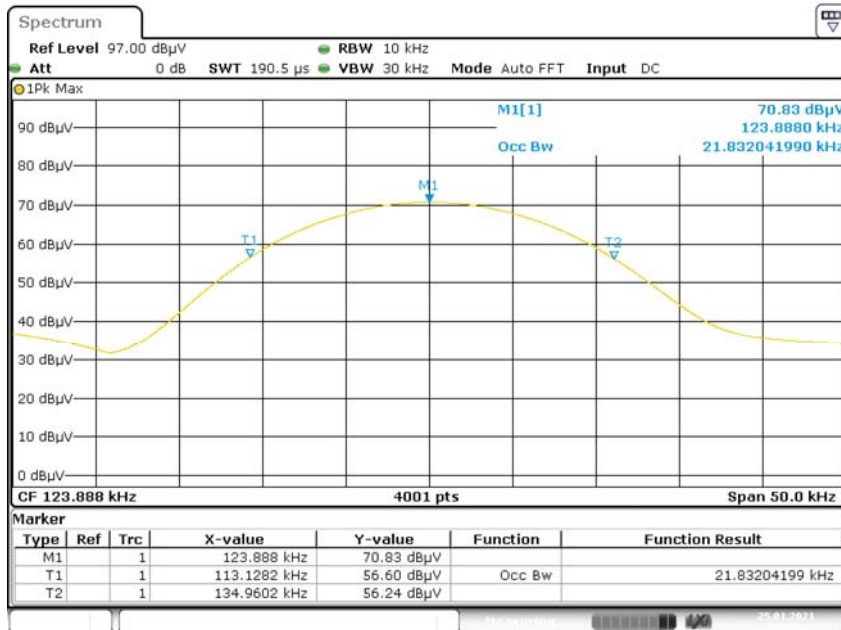
99% Occupied Bandwidth

PWM Test Data and Plots (Mode 1)



Date: 25.,JAN.2021 09:22:09

PWM Test Data and Plots (Mode 2)



Date: 25.,JAN.2021 09:37:01

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ2110528-AE-2.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2110528-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ2110528-AI.PDF".

--END OF REPORT--