RF TEST REPORT

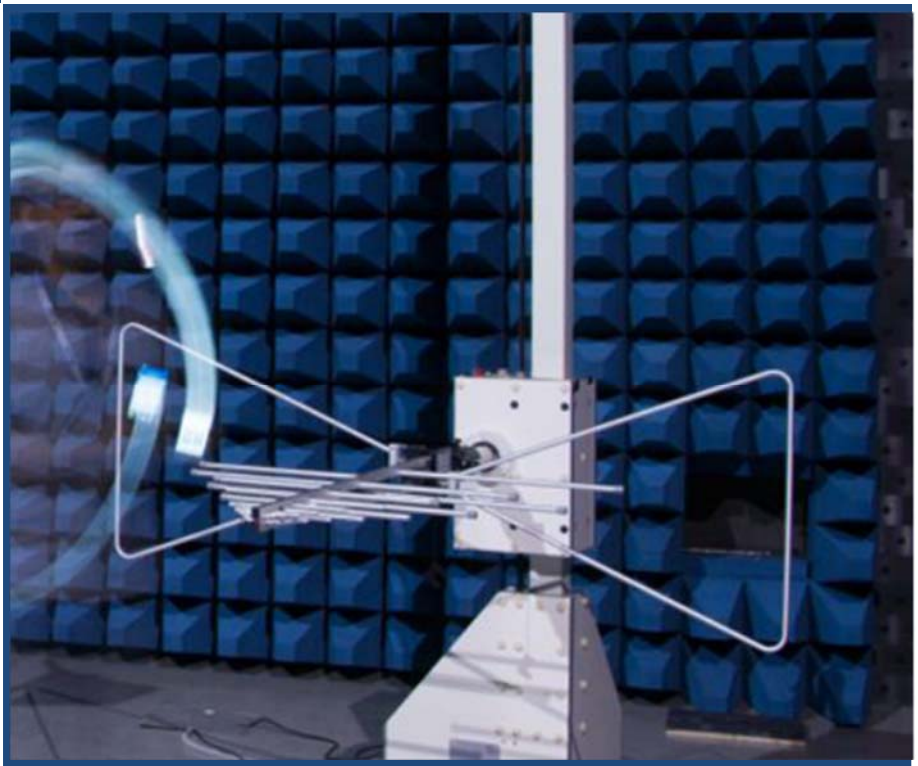
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

Fetal&Maternal Monitor

ISSUED TO
Edan Instruments, Inc

#15 Jinhui Road, Jinsha Community, Kengzi Sub-District, Pingshan District, 518122 Shenzhen P.R.China



Report No.:	BL-SZ2040038-401
EUT Name:	Fetal&Maternal Monitor
Model Name:	F15 Air (refer section 2.4)
Brand Name:	EDAN
Test Standard:	47 CFR Part 15 Subpart C (refer section 3.1)
FCC ID:	SMQF15EDAN
JTest Conclusion:	Pass
Test Date:	Apr. 02, 2020 ~ Mar. 28, 2022
Date of Issue:	Apr. 07, 2022

Tested by: Xiong Chong
Date Apr. 07, 2022

Approved by: Liao Jianming
(Technical Director)
Date Apr. 07, 2022

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Oct. 27, 2021	Initial Issue
Rev. 02	Apr. 07, 2022	Updated all tests Updated Product Type

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science & Technology Park, Shahe West Road, Nanshan District, Shenzhen, Guangdong Province, 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, 1/F, Baisha Science & Technology Park, Shahe West Road, Nanshan District, Shenzhen, Guangdong Province, China
Description	All measurement facilities used to collect the measurement data are located at Block B, 1/F, Baisha Science & Technology Park, Shahe West Road, Nanshan District, Shenzhen, Guangdong Province, China.

1.3 Laboratory Condition

Ambient Temperature	20℃ to 25℃
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 v2.7.

(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.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Edan Instruments, Inc
Address	#15 Jinhui Road, Jinsha Community, Kengzi Sub-District, Pingshan District, 518122 Shenzhen P.R.China

2.2 Manufacturer Information

Manufacturer	Edan Instruments, Inc
Address	#15 Jinhui Road, Jinsha Community, Kengzi Sub-District, Pingshan District, 518122 Shenzhen P.R.China

2.3 Factory Information

Factory	Edan Instruments, Inc
Address	#15 Jinhui Road, Jinsha Community, Kengzi Sub-District, Pingshan District, 518122 Shenzhen P.R.China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Fetal&Maternal Monitor
Model Name Under Test	F15 Air
Series Model Name	F15, F15 Air
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name.
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	WIFI 802.11b, Qi, NFC

The requirement for the following technical information of the EUT was tested in this report:

Operating Frequency	110.5~205 kHz
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Antenna Type	Coil Antenna

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	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: The EUT has three coil antennas, and four configurations were tested for EUT, as follow: Coil-1: EUT + Power + Probe#1 Coil-2: EUT + Power + Probe#2 Coil-3: EUT + Power + Probe#3 Simultaneous (Coil-1 + Coil-2 + Coil-3): EUT + Power + Probe#1 + Probe#2 + Probe#3.				

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)	4.28 dB
Radiated emissions (9 kHz-30 MHz)	3.22 dB
Radiated emissions (30 MHz-1 GHz)-10m	4.80 dB
Radiated emissions (30 MHz-1 GHz)-3m	4.76 dB
Radiated emissions (1 GHz-18 GHz)-3m	4.88 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

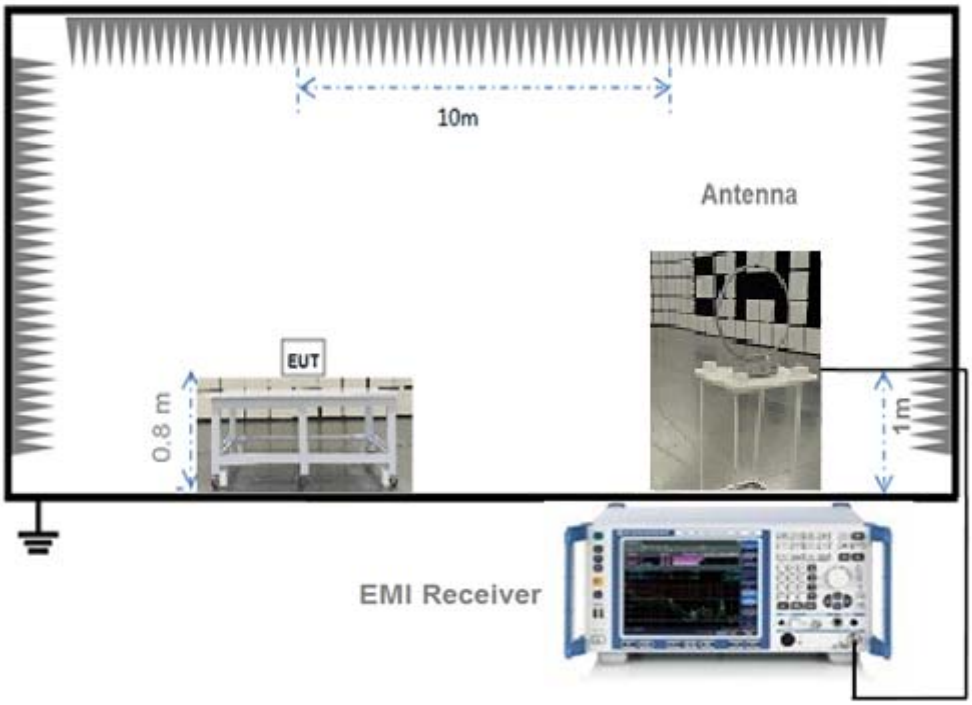
Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22℃ to +25℃
Working Voltage of the EUT	NV (Normal Voltage)	10.8 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.10.10	2022.10.09
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2021.10.10	2022.10.09
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.08	2022.06.07
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	N/A	2022.02.19	2025.02.18
Test Software	BALUN	BL410_E	V19.918	--	--

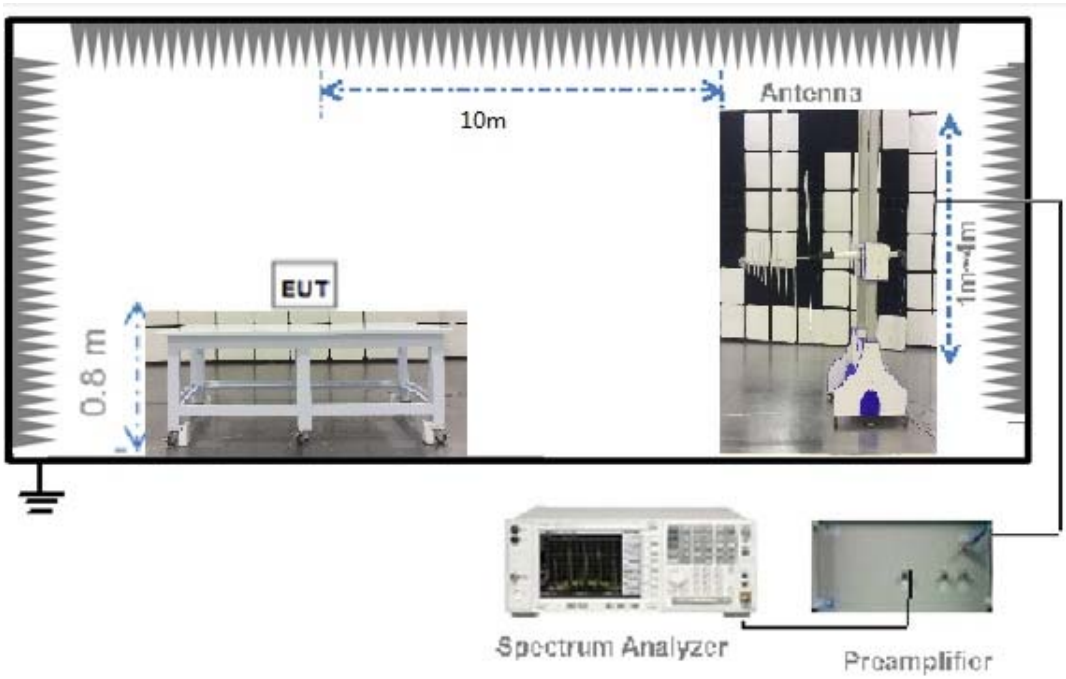
4.3 Test Setups

Test Setup 1



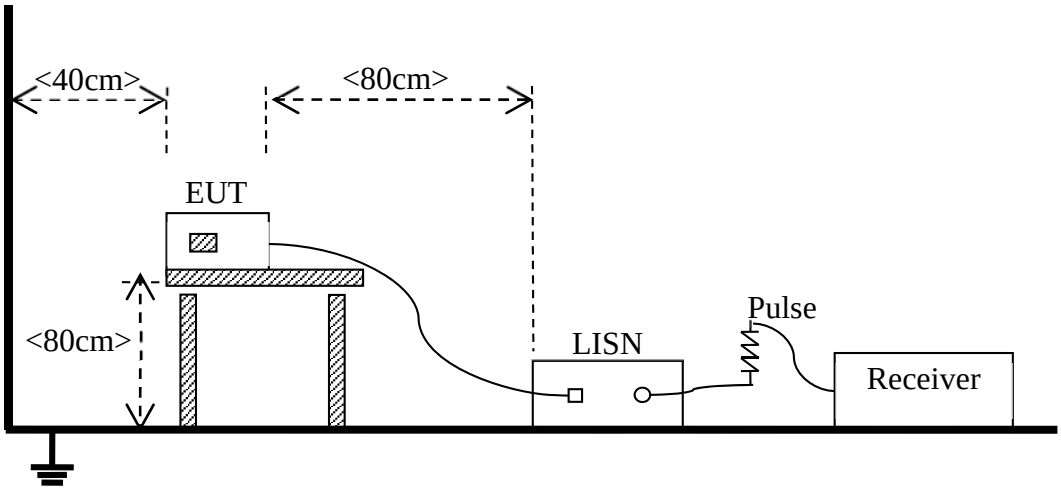
For Radiated Emission Test (Below 30 MHz))

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 (μV/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 (dBμV/m) = 20*log [Field Strength (μV/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*log (2400/f) + 40log (dlimit/dmeasure) where limit = 300m, dmeasure=10m. limit @10m = 20*log (2400/9) + 40log (300/10) = 107.5 (dBμV/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*log (100) + 20log (dlimit/dmeasure) where limit = 3m, dmeasure=10m. limit @10m = 20*log (100) + 20log (3/10) = 29.5 (dBμV/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 (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*log1%=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 = between 2 to 5 times the OBW

RBW = 1% to 5% the OBW

VBW ≥ 3RBW

Sweep = auto

Detector function = peak

Trace = max hold

The 99% emission bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = between 1.5 to 5 times the OBW

RBW = 1% to 5% OBW

VBW ≥ 3RBW

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.

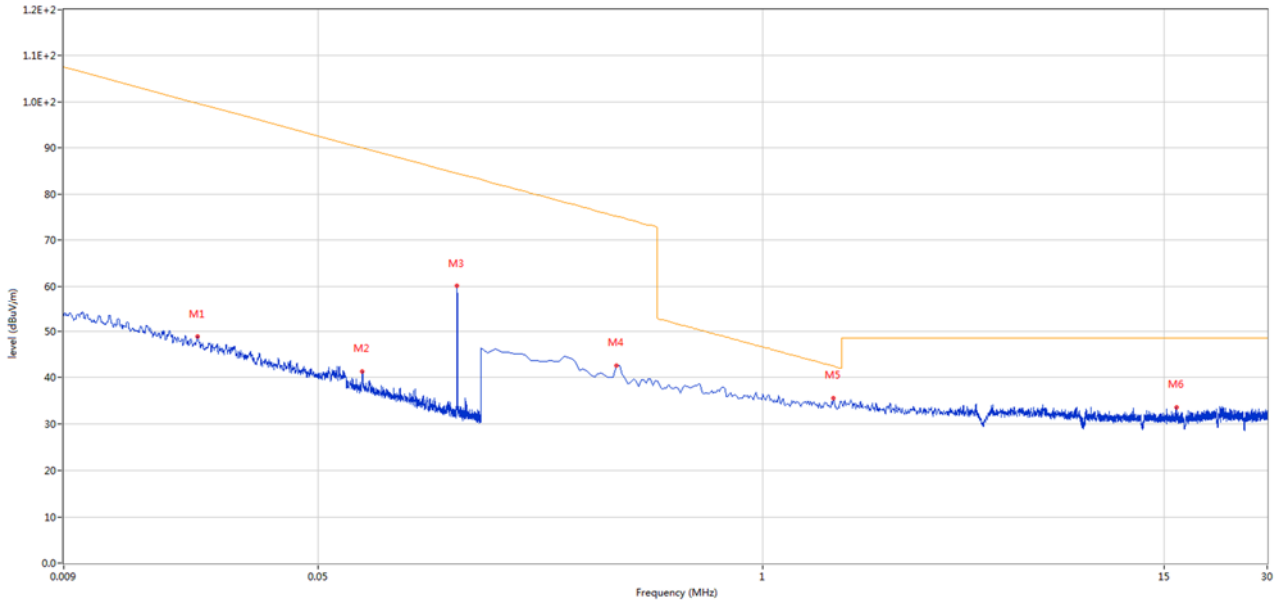
Note [2]: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [3]: The marked spikes near 0.124 MHz, 0.126 MHz, 0.127 MHz and 0.128 MHz with circle should be ignored because they are QI carrier frequency.

Test Data and Plots

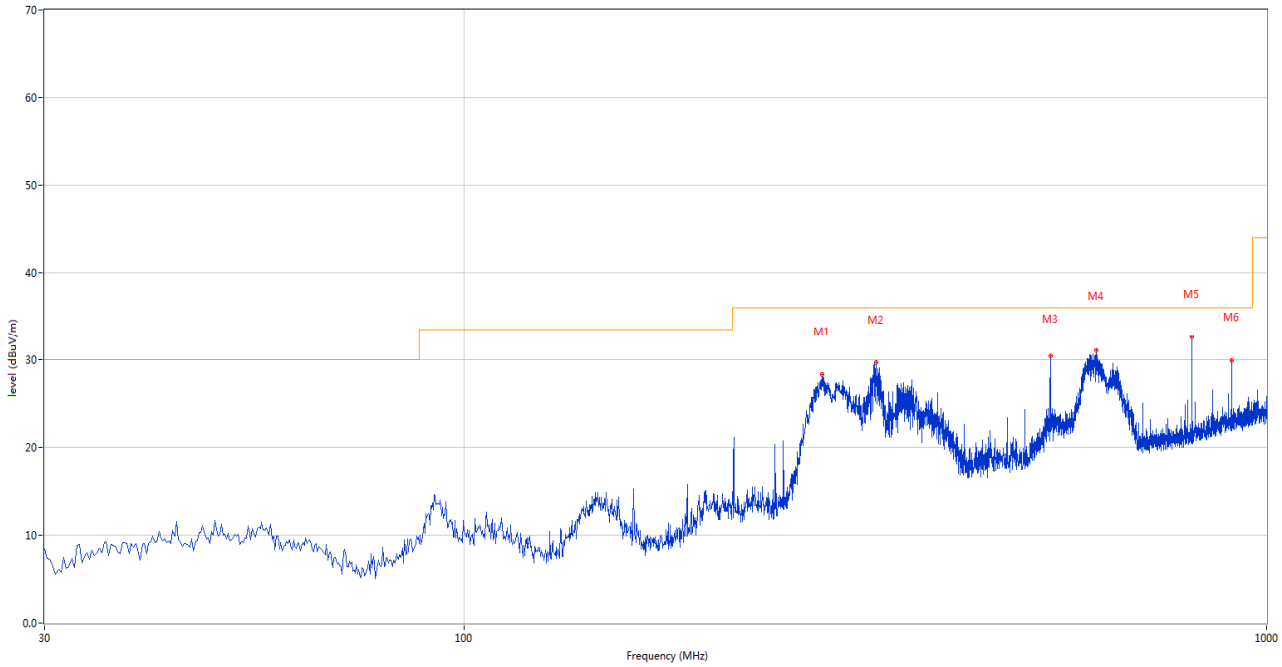
Coil-1

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



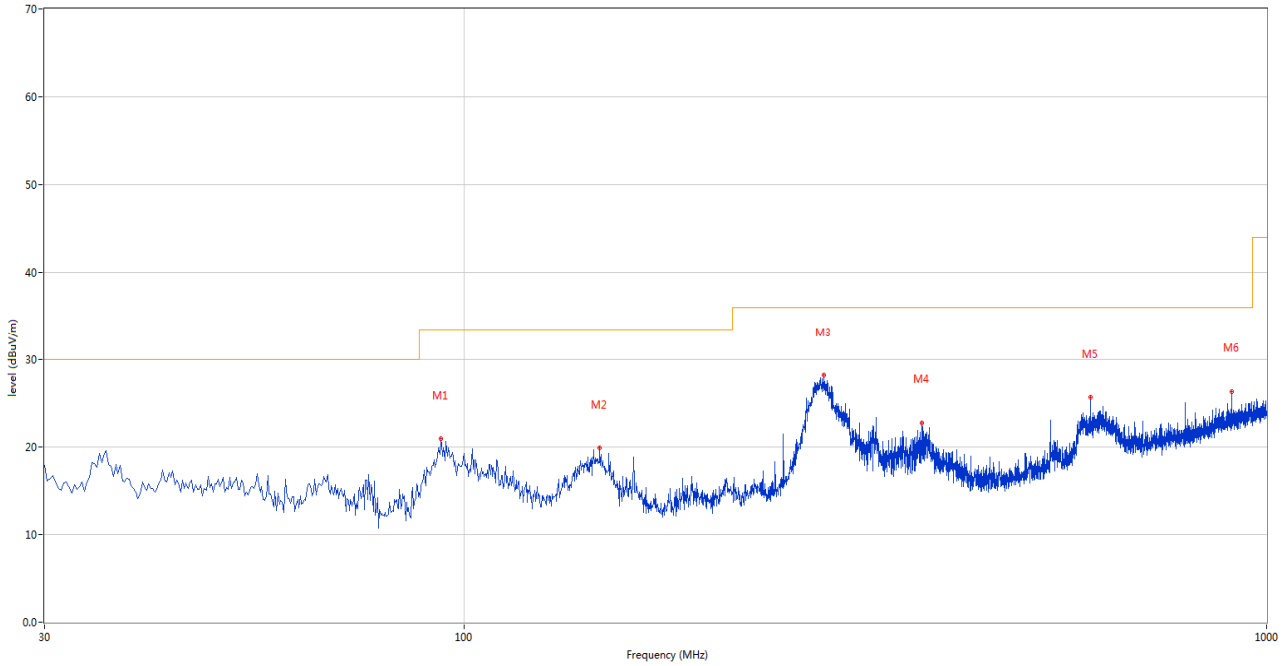
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.022	48.79	20.24	99.7	-50.91	Peak	360.00	100	Vertical	Pass
2	0.067	41.35	20.18	90.0	-48.65	Peak	53.00	100	Vertical	Pass
3	0.128	60.03	20.15	84.5	-24.47	Peak	17.00	100	Vertical	N/A
4	0.374	42.57	20.17	75.1	-32.53	Peak	4.00	100	Vertical	Pass
5	1.613	35.53	20.47	42.5	-6.97	Peak	34.00	100	Vertical	Pass
6	16.247	33.61	20.92	48.5	-14.89	Peak	263.00	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	279.470	28.28	-25.61	36.0	-7.72	Peak	235.00	200	Horizontal	Pass
2	325.776	29.67	-24.37	36.0	-6.33	Peak	169.00	200	Horizontal	Pass
3	537.426	30.42	-19.64	36.0	-5.58	Peak	282.00	100	Horizontal	Pass
4	614.036	31.10	-17.66	36.0	-4.90	Peak	256.00	100	Horizontal	Pass
5	806.291	32.59	-14.58	36.0	-3.41	Peak	297.00	100	Horizontal	Pass
6	905.206	29.90	-12.73	36.0	-6.10	Peak	251.00	100	Horizontal	Pass

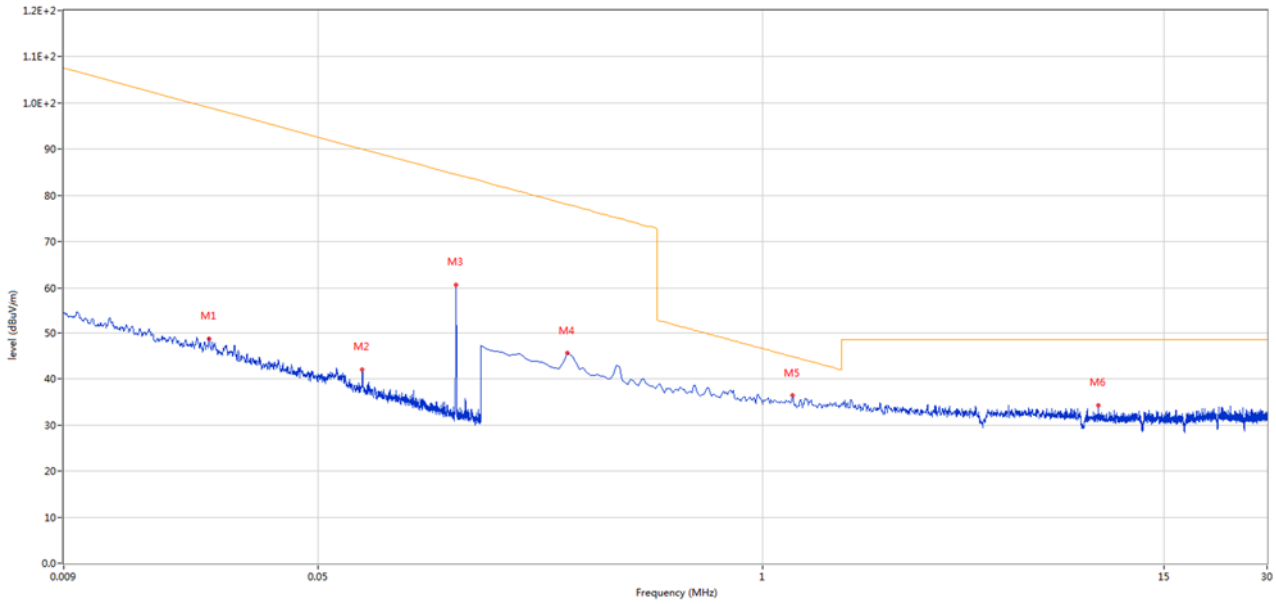
A.1.3 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	93.519	20.93	-29.00	33.5	-12.57	Peak	24.00	100	Vertical	Pass
2	147.583	19.85	-31.50	33.5	-13.65	Peak	206.00	100	Vertical	Pass
3	280.925	28.21	-25.61	36.0	-7.79	Peak	125.00	100	Vertical	Pass
4	372.082	22.76	-23.27	36.0	-13.24	Peak	1.00	100	Vertical	Pass
5	603.369	25.65	-17.66	36.0	-10.35	Peak	78.00	200	Vertical	Pass
6	905.206	26.35	-12.73	36.0	-9.65	Peak	144.00	200	Vertical	Pass

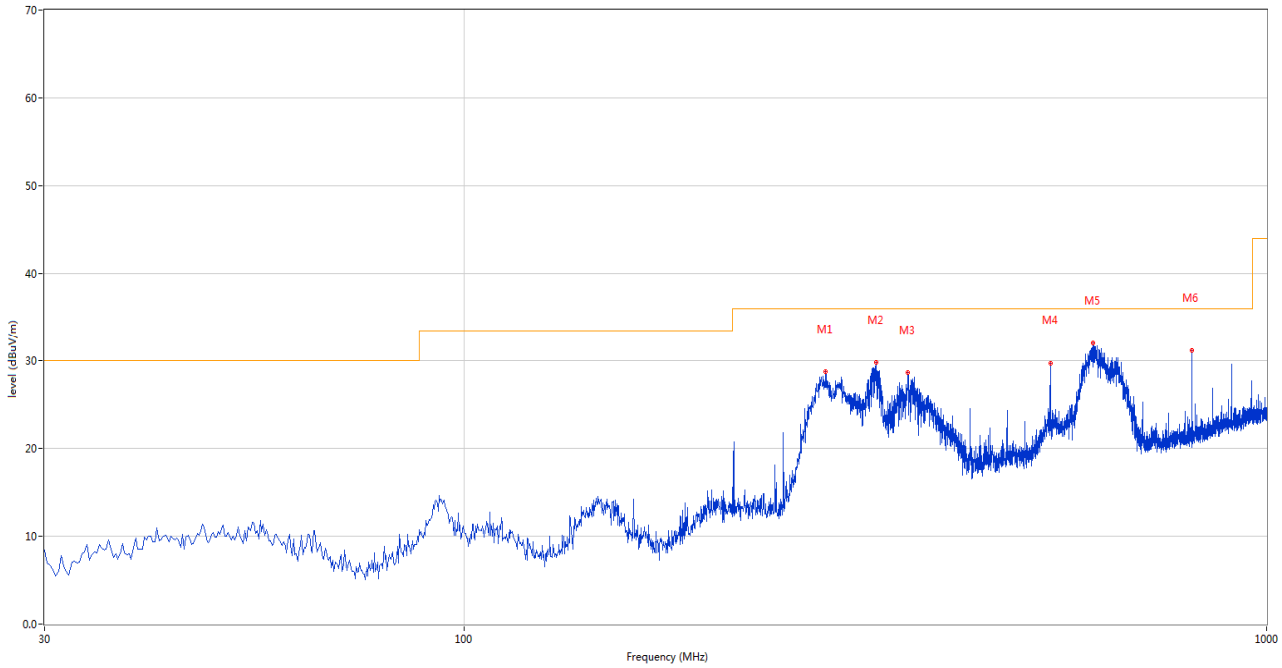
Coil-2

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



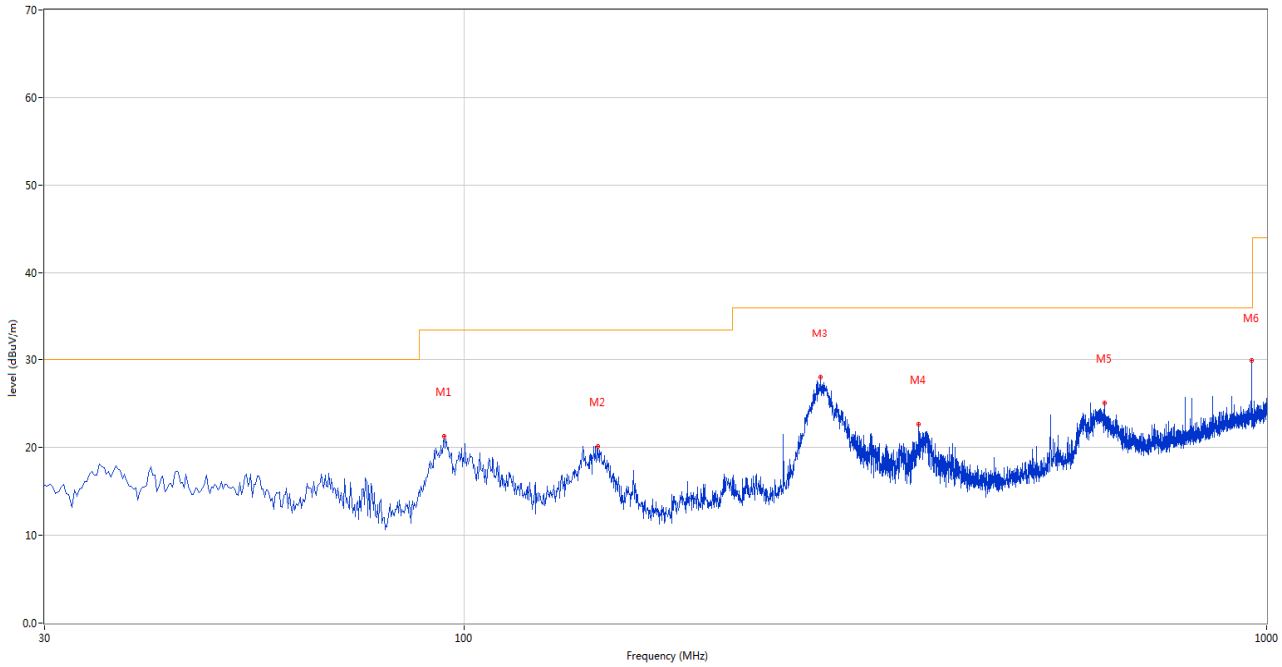
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.024	48.86	20.23	99.0	-50.14	Peak	360.00	100	Vertical	Pass
2	0.067	42.09	20.18	90.0	-47.91	Peak	350.00	100	Vertical	Pass
3	0.127	60.55	20.15	84.5	-23.95	Peak	359.00	100	Vertical	N/A
4	0.269	45.58	20.13	78.0	-32.42	Peak	273.00	100	Vertical	Pass
5	1.225	36.38	20.51	44.8	-8.42	Peak	203.00	100	Vertical	Pass
6	9.635	34.38	20.82	48.5	-14.12	Peak	247.00	100	Vertical	Pass

A.1.5 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	282.137	28.70	-25.52	36.0	-7.30	Peak	240.00	200	Horizontal	Pass
2	326.018	29.79	-24.35	36.0	-6.21	Peak	149.00	200	Horizontal	Pass
3	357.293	28.61	-23.36	36.0	-7.39	Peak	159.00	200	Horizontal	Pass
4	537.426	29.73	-19.64	36.0	-6.27	Peak	271.00	100	Horizontal	Pass
5	607.006	31.98	-17.76	36.0	-4.02	Peak	251.00	100	Horizontal	Pass
6	806.291	31.21	-14.58	36.0	-4.79	Peak	40.00	100	Horizontal	Pass

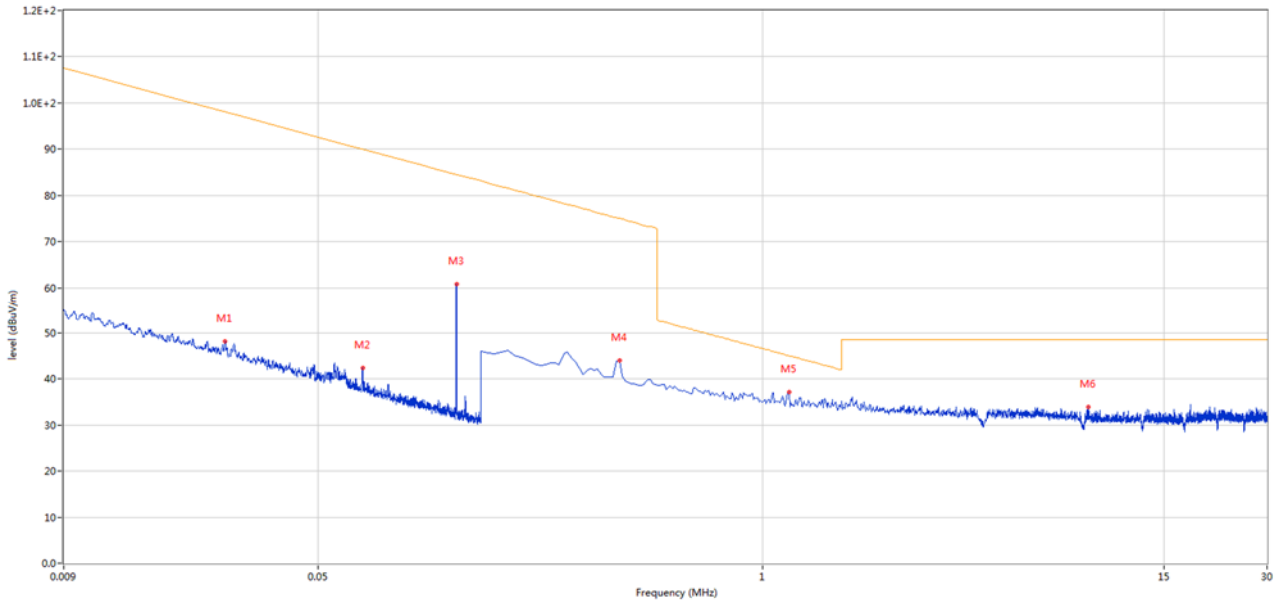
A.1.6 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	94.489	21.31	-28.80	33.5	-12.19	Peak	30.00	100	Vertical	Pass
2	146.613	20.13	-31.49	33.5	-13.37	Peak	241.00	100	Vertical	Pass
3	277.773	28.03	-25.62	36.0	-7.97	Peak	176.00	100	Vertical	Pass
4	368.688	22.63	-23.42	36.0	-13.37	Peak	201.00	100	Vertical	Pass
5	627.856	25.08	-17.48	36.0	-10.92	Peak	322.00	100	Vertical	Pass
6	958.300	29.89	-12.12	36.0	-6.11	Peak	94.00	200	Vertical	Pass

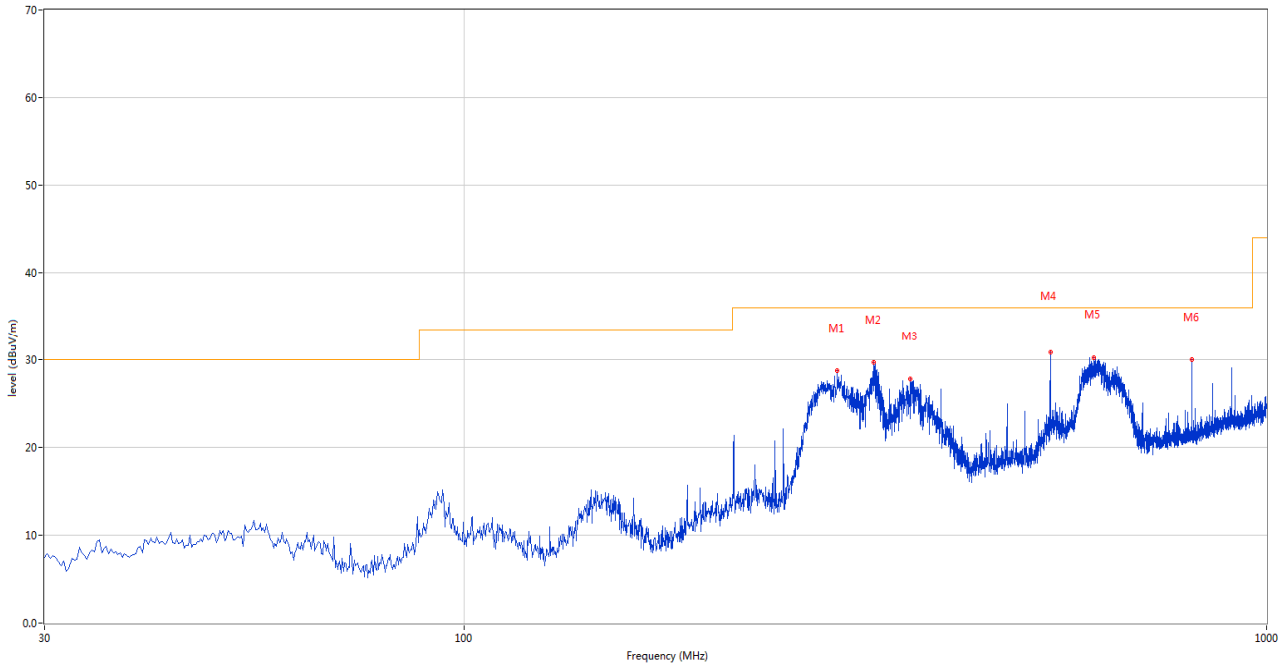
Coil-3

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



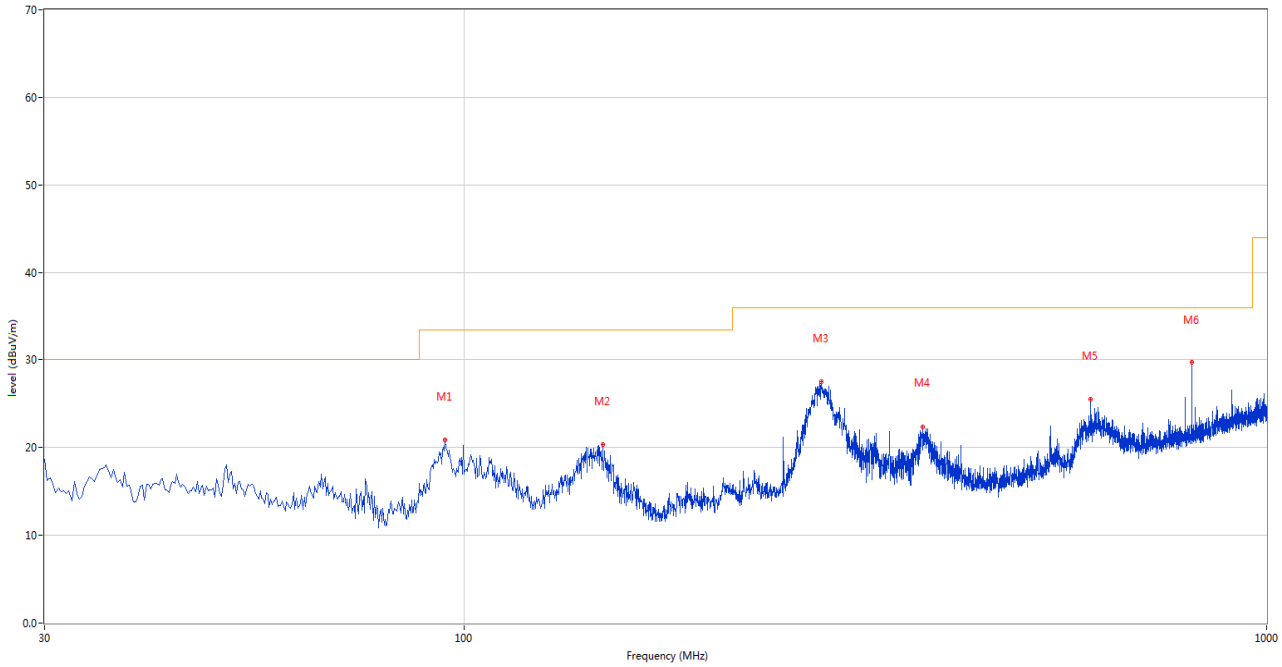
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.027	47.83	20.25	98.1	-50.27	Peak	44.00	100	Vertical	Pass
2	0.068	42.38	20.18	90.0	-47.62	Peak	4.00	100	Vertical	Pass
3	0.127	60.97	20.15	84.5	-23.53	Peak	0.00	100	Vertical	N/A
4	0.381	44.05	20.17	75.0	-30.95	Peak	4.00	100	Vertical	Pass
5	1.195	37.18	20.53	45.0	-7.82	Peak	307.00	100	Vertical	Pass
6	9.015	33.92	20.83	48.5	-14.58	Peak	9.00	100	Vertical	Pass

A.1.8 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	291.835	28.71	-25.24	36.0	-7.29	Peak	240.00	200	Horizontal	Pass
2	324.079	29.67	-24.51	36.0	-6.33	Peak	179.00	200	Horizontal	Pass
3	359.718	27.75	-23.46	36.0	-8.25	Peak	174.00	200	Horizontal	Pass
4	537.668	30.84	-19.63	36.0	-5.16	Peak	295.00	200	Horizontal	Pass
5	608.945	30.23	-17.72	36.0	-5.77	Peak	256.00	100	Horizontal	Pass
6	806.291	29.98	-14.58	36.0	-6.02	Peak	266.00	100	Horizontal	Pass

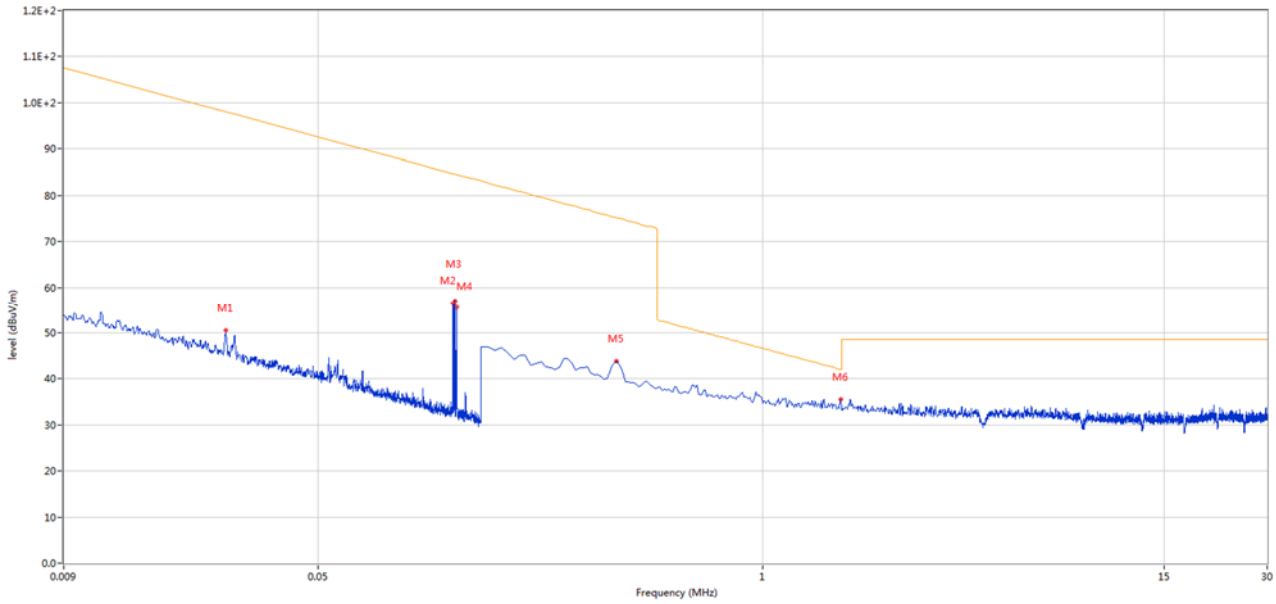
A.1.9 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	94.731	20.81	-28.75	33.5	-12.69	Peak	360.00	200	Vertical	Pass
2	148.795	20.31	-31.52	33.5	-13.19	Peak	221.00	100	Vertical	Pass
3	278.500	27.46	-25.58	36.0	-8.54	Peak	115.00	100	Vertical	Pass
4	372.809	22.33	-23.27	36.0	-13.67	Peak	140.00	100	Vertical	Pass
5	603.369	25.43	-17.66	36.0	-10.57	Peak	100.00	100	Vertical	Pass
6	806.291	29.66	-14.58	36.0	-6.34	Peak	124.00	200	Vertical	Pass

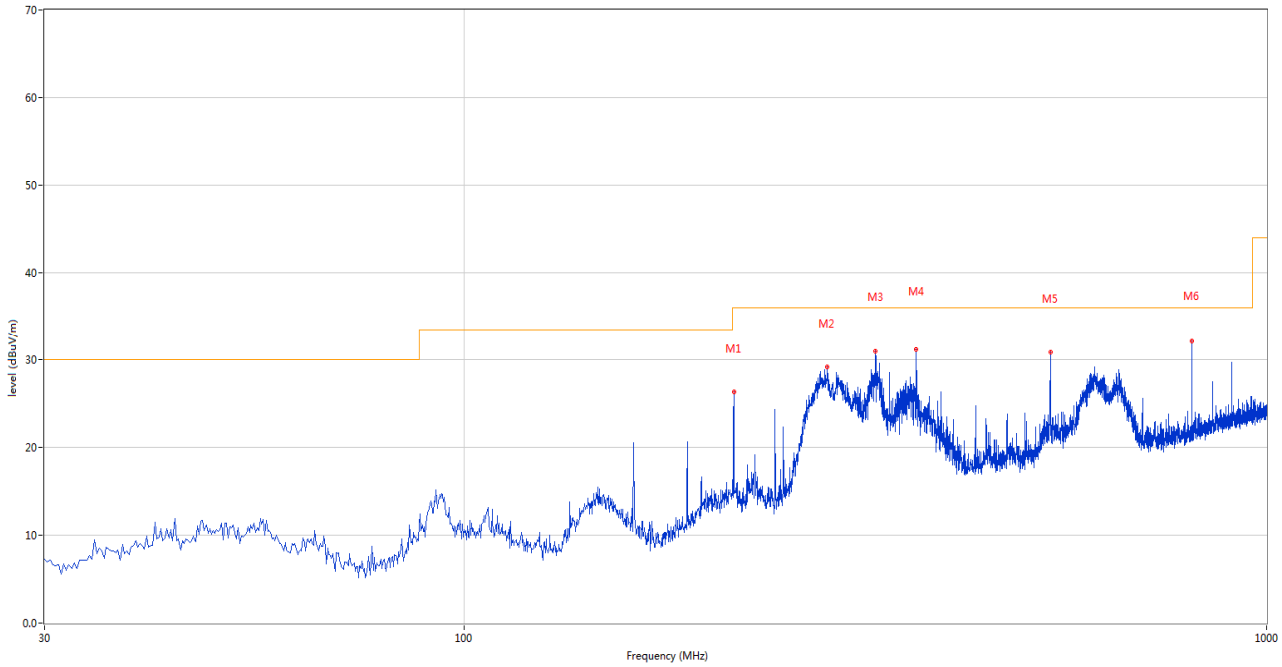
Simultaneous (Coil-1 + Coil-2 + Coil-3)

A.1.10 Test Antenna Loop, 9 kHz –30 MHz



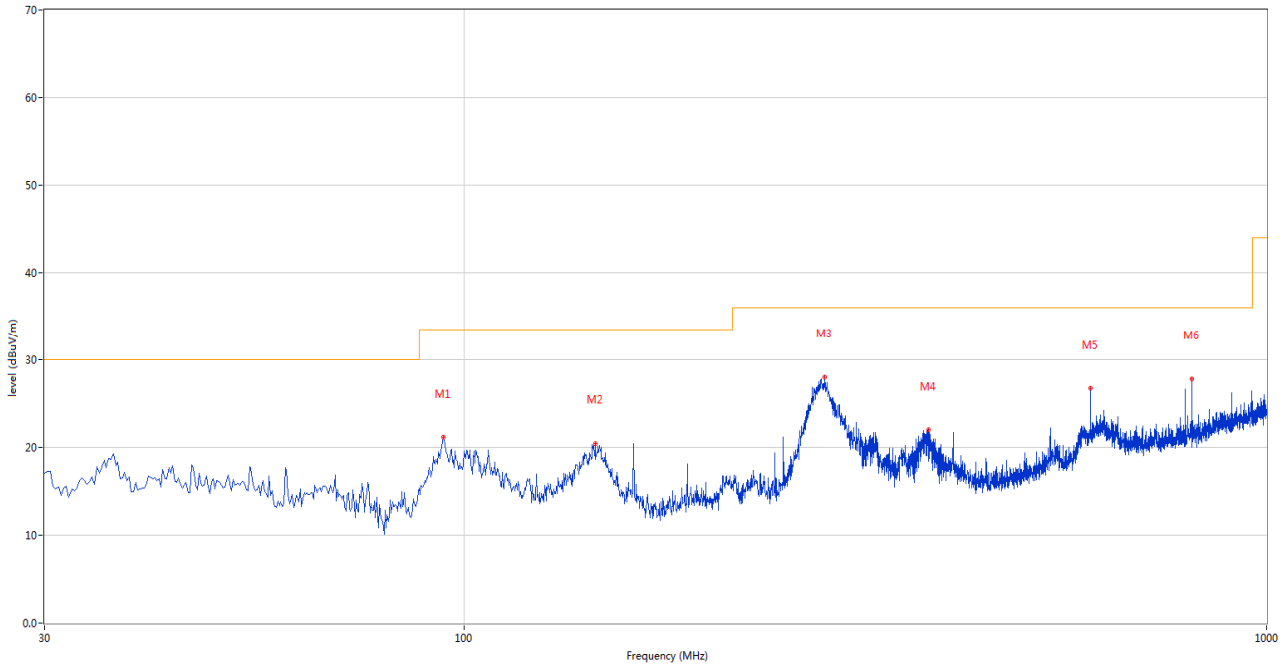
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.027	49.84	20.26	98.1	-48.26	Peak	219.00	100	Vertical	Pass
2	0.124	55.59	20.16	84.7	-29.11	Peak	360.00	100	Vertical	N/A
3	0.126	57.01	20.15	84.6	-27.59	Peak	0.00	100	Vertical	N/A
4	0.127	54.99	20.15	84.5	-29.51	Peak	1.00	100	Vertical	N/A
5	0.374	43.78	20.17	75.1	-31.32	Peak	0.00	100	Vertical	Pass
6	1.695	35.48	20.46	42.0	-6.52	Peak	97.00	100	Vertical	Pass

A.1.11 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	216.921	26.30	-27.82	36.0	-9.70	Peak	235.00	200	Horizontal	Pass
2	283.592	29.16	-25.49	36.0	-6.84	Peak	240.00	200	Horizontal	Pass
3	325.291	30.92	-24.41	36.0	-5.08	Peak	154.00	200	Horizontal	Pass
4	366.021	31.11	-23.48	36.0	-4.89	Peak	179.00	200	Horizontal	Pass
5	537.426	30.79	-19.64	36.0	-5.21	Peak	270.00	200	Horizontal	Pass
6	806.291	32.07	-14.58	36.0	-3.93	Peak	297.00	100	Horizontal	Pass

A.1.12 Test Antenna Vertical, 30 MHz – 1 GHz



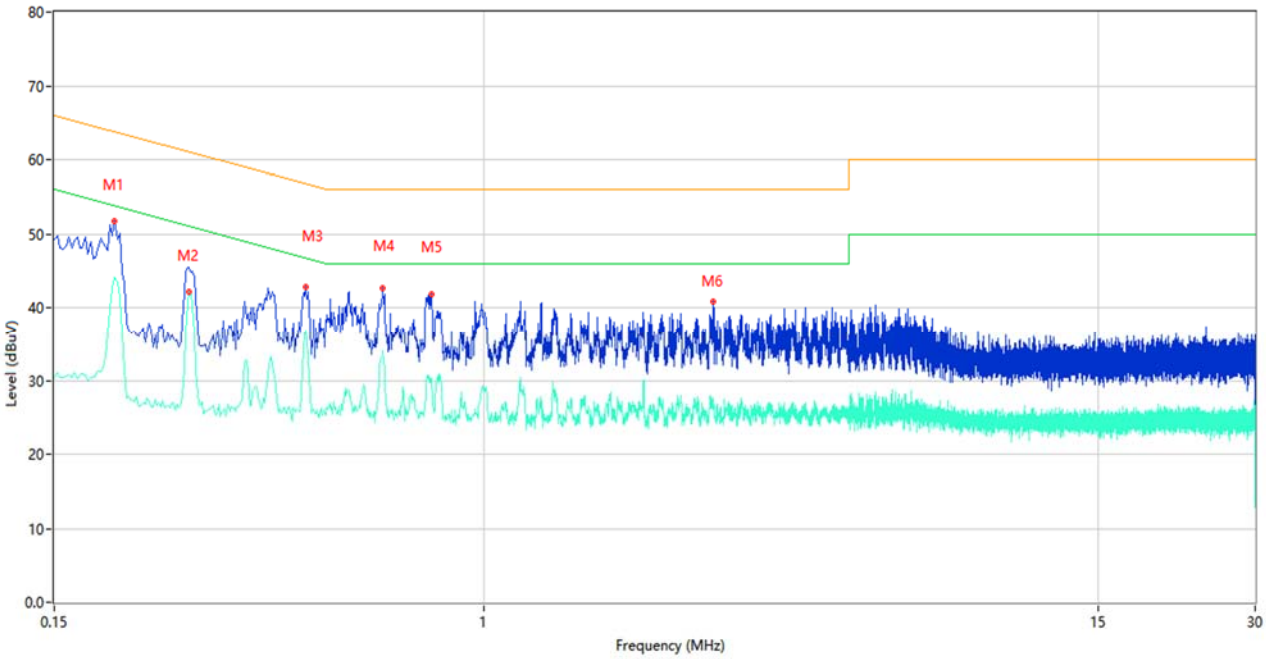
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	94.246	21.11	-28.85	33.5	-12.39	Peak	360.00	200	Vertical	Pass
2	145.644	20.47	-31.53	33.5	-13.03	Peak	231.00	100	Vertical	Pass
3	281.410	28.03	-25.57	36.0	-7.97	Peak	191.00	100	Vertical	Pass
4	379.355	21.98	-23.05	36.0	-14.02	Peak	357.00	100	Vertical	Pass
5	603.369	26.71	-17.66	36.0	-9.29	Peak	83.00	200	Vertical	Pass
6	806.291	27.80	-14.58	36.0	-8.20	Peak	109.00	200	Vertical	Pass

A.2 Conducted Emission

Test Data and Plots

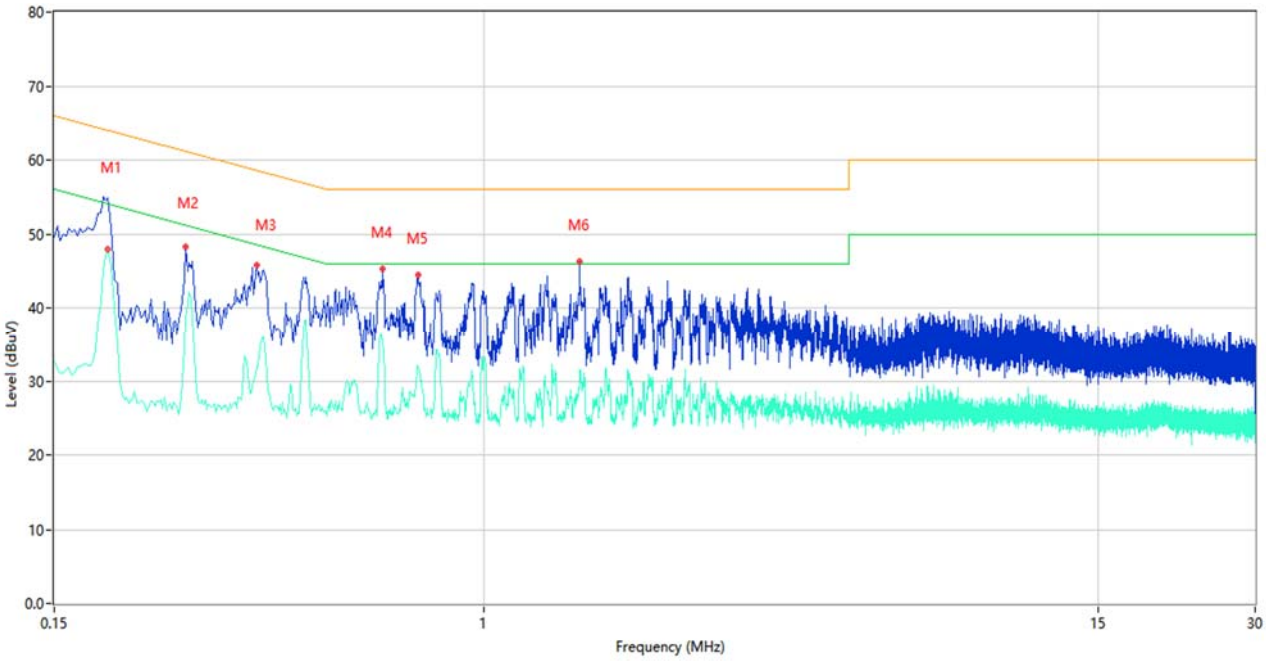
Coil-1

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.196	51.75	10.96	63.78	-12.03	Peak	L	Pass
1**	0.196	44.14	10.96	53.78	-9.64	AV	L	Pass
2	0.272	45.45	10.90	61.06	-15.61	Peak	L	Pass
2**	0.272	42.16	10.90	51.06	-8.90	AV	L	Pass
3	0.454	42.73	10.91	56.80	-14.07	Peak	L	Pass
3**	0.454	36.89	10.91	46.80	-9.91	AV	L	Pass
4	0.640	42.65	10.86	56.00	-13.35	Peak	L	Pass
4**	0.640	34.05	10.86	46.00	-11.95	AV	L	Pass
5	0.792	41.80	10.79	56.00	-14.20	Peak	L	Pass
5**	0.792	30.32	10.79	46.00	-15.68	AV	L	Pass
6	2.750	40.76	10.71	56.00	-15.24	Peak	L	Pass
6**	2.750	26.96	10.71	46.00	-19.04	AV	L	Pass

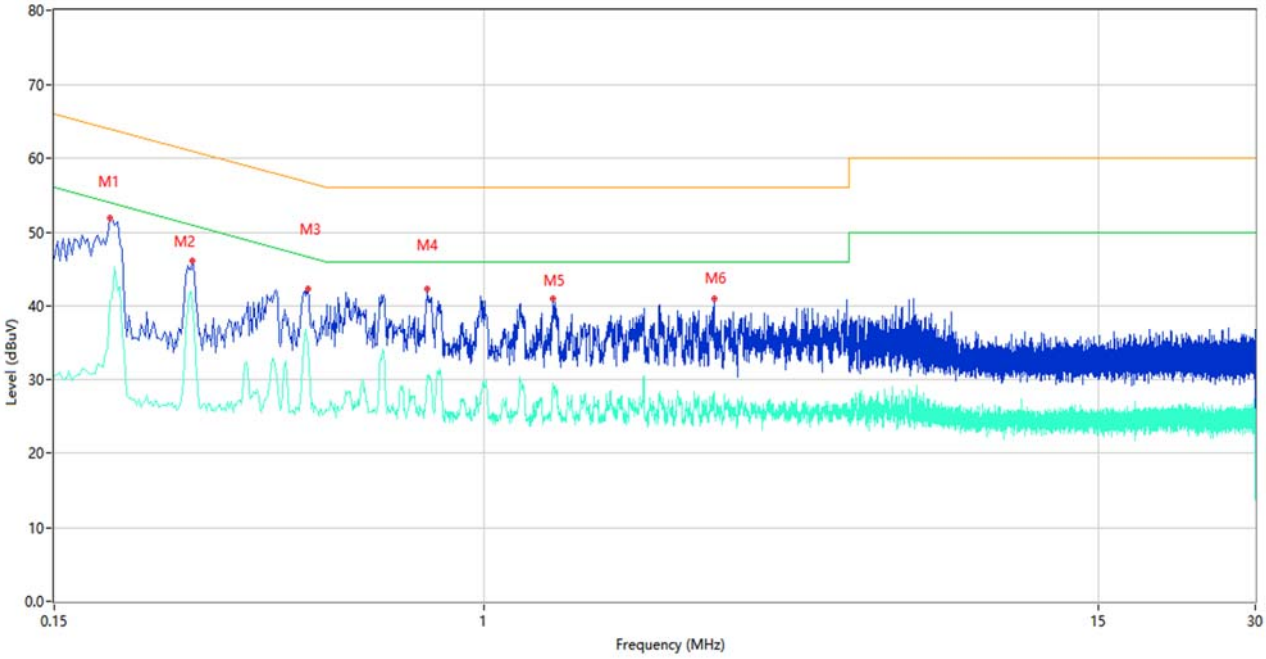
A.2.2 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.190	54.82	10.96	64.04	-9.22	Peak	N	Pass
1**	0.190	48.01	10.96	54.04	-6.03	AV	N	Pass
2	0.268	48.30	10.90	61.18	-12.88	Peak	N	Pass
2**	0.268	38.51	10.90	51.18	-12.67	AV	N	Pass
3	0.366	45.83	10.89	58.59	-12.76	Peak	N	Pass
3**	0.366	31.83	10.89	48.59	-16.76	AV	N	Pass
4	0.640	45.22	10.86	56.00	-10.78	Peak	N	Pass
4**	0.640	35.66	10.86	46.00	-10.34	AV	N	Pass
5	0.746	44.52	10.81	56.00	-11.48	Peak	N	Pass
5**	0.746	31.94	10.81	46.00	-14.06	AV	N	Pass
6	1.524	46.27	10.73	56.00	-9.73	Peak	N	Pass
6**	1.524	31.65	10.73	46.00	-14.35	AV	N	Pass

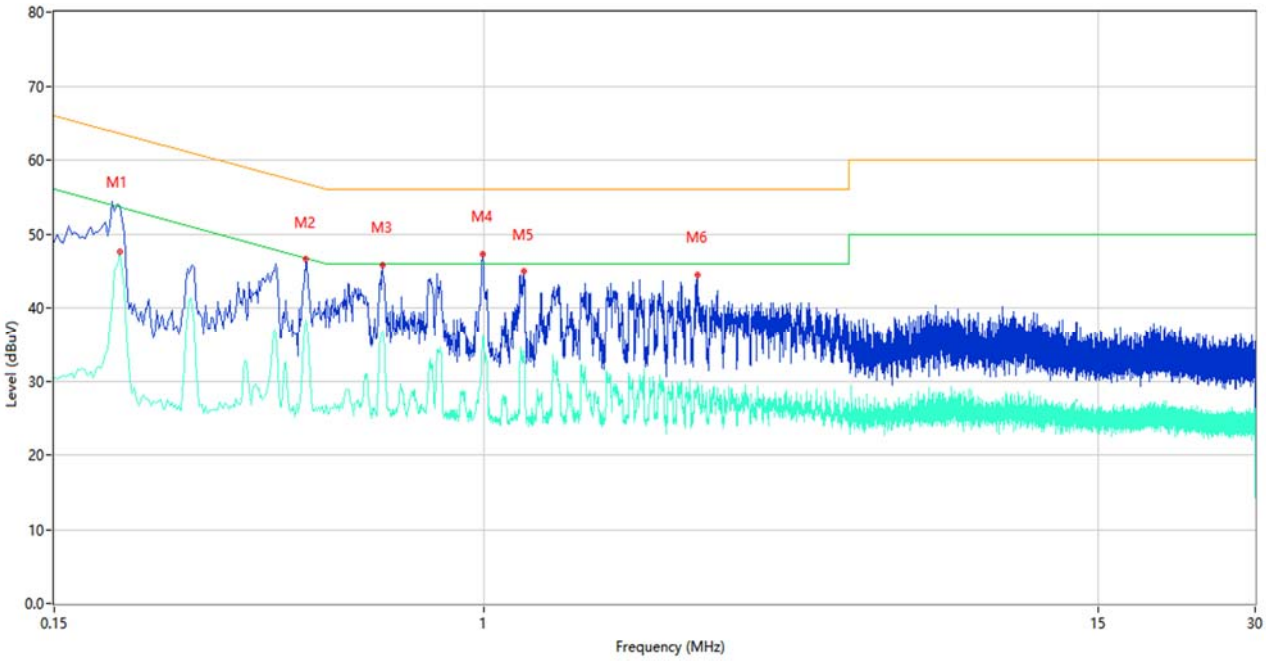
Coil-2

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.192	51.84	10.96	63.95	-12.11	Peak	L	Pass
1**	0.192	40.73	10.96	53.95	-13.22	AV	L	Pass
2	0.276	46.08	10.90	60.94	-14.86	Peak	L	Pass
2**	0.276	40.35	10.90	50.94	-10.59	AV	L	Pass
3	0.460	42.29	10.91	56.69	-14.40	Peak	L	Pass
3**	0.460	34.40	10.91	46.69	-12.29	AV	L	Pass
4	0.778	42.34	10.80	56.00	-13.66	Peak	L	Pass
4**	0.778	30.27	10.80	46.00	-15.73	AV	L	Pass
5	1.356	40.92	10.72	56.00	-15.08	Peak	L	Pass
5**	1.356	29.36	10.72	46.00	-16.64	AV	L	Pass
6	2.754	40.99	10.71	56.00	-15.01	Peak	L	Pass
6**	2.754	28.29	10.71	46.00	-17.71	AV	L	Pass

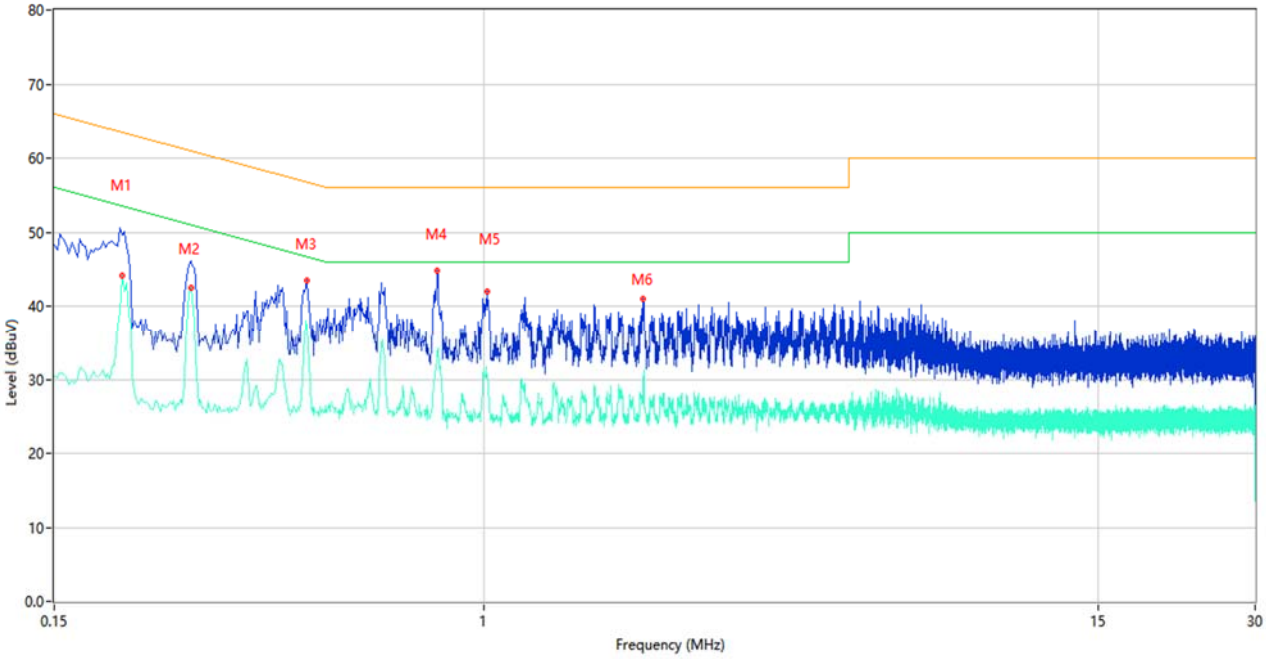
A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.200	53.71	10.96	63.61	-9.90	Peak	N	Pass
1**	0.200	47.65	10.96	53.61	-5.96	AV	N	Pass
2	0.454	46.61	10.91	56.80	-10.19	Peak	N	Pass
2**	0.454	38.01	10.91	46.80	-8.79	AV	N	Pass
3	0.638	45.81	10.86	56.00	-10.19	Peak	N	Pass
3**	0.638	36.59	10.86	46.00	-9.41	AV	N	Pass
4	0.994	47.31	10.70	56.00	-8.69	Peak	N	Pass
4**	0.994	36.07	10.70	46.00	-9.93	AV	N	Pass
5	1.190	44.98	10.71	56.00	-11.02	Peak	N	Pass
5**	1.190	34.06	10.71	46.00	-11.94	AV	N	Pass
6	2.558	44.54	10.72	56.00	-11.46	Peak	N	Pass
6**	2.558	28.37	10.72	46.00	-17.63	AV	N	Pass

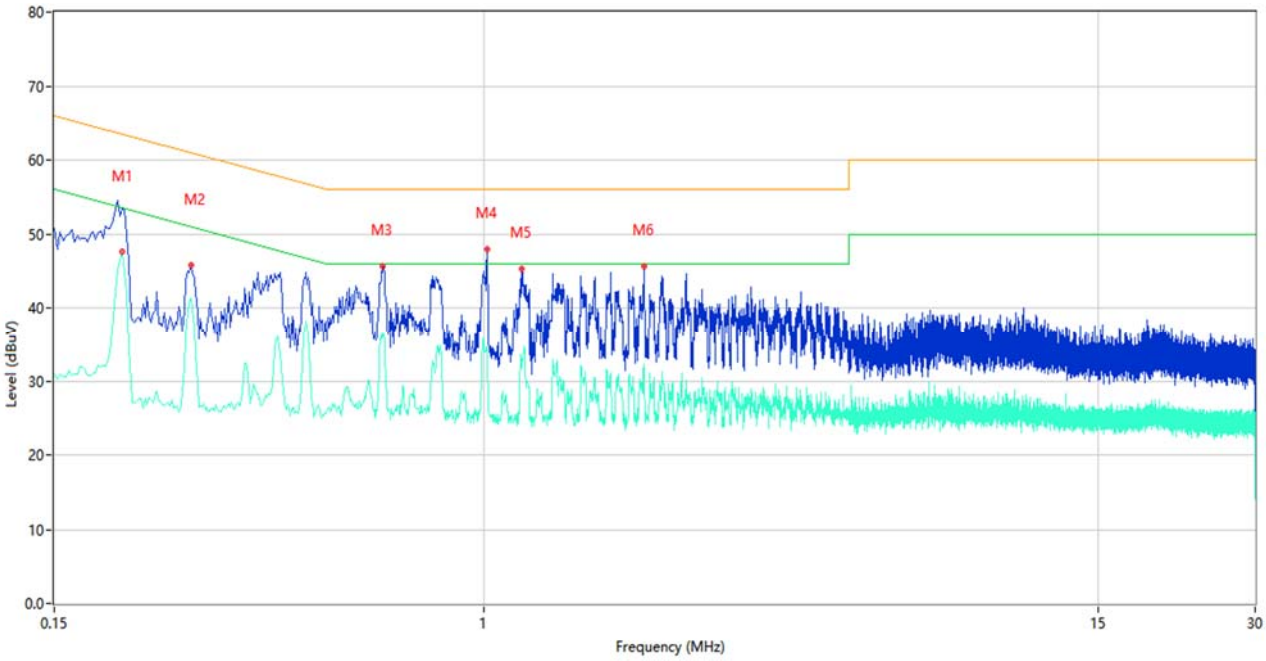
Coil-3

A.2.5 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.202	49.57	10.96	63.53	-13.96	Peak	L	Pass
1**	0.202	44.13	10.96	53.53	-9.40	AV	L	Pass
2	0.274	46.19	10.90	61.00	-14.81	Peak	L	Pass
2**	0.274	42.48	10.90	51.00	-8.52	AV	L	Pass
3	0.458	43.41	10.91	56.73	-13.32	Peak	L	Pass
3**	0.458	37.12	10.91	46.73	-9.61	AV	L	Pass
4	0.814	44.73	10.78	56.00	-11.27	Peak	L	Pass
4**	0.814	33.80	10.78	46.00	-12.20	AV	L	Pass
5	1.014	41.98	10.70	56.00	-14.02	Peak	L	Pass
5**	1.014	30.68	10.70	46.00	-15.32	AV	L	Pass
6	2.016	41.06	10.75	56.00	-14.94	Peak	L	Pass
6**	2.016	29.33	10.75	46.00	-16.67	AV	L	Pass

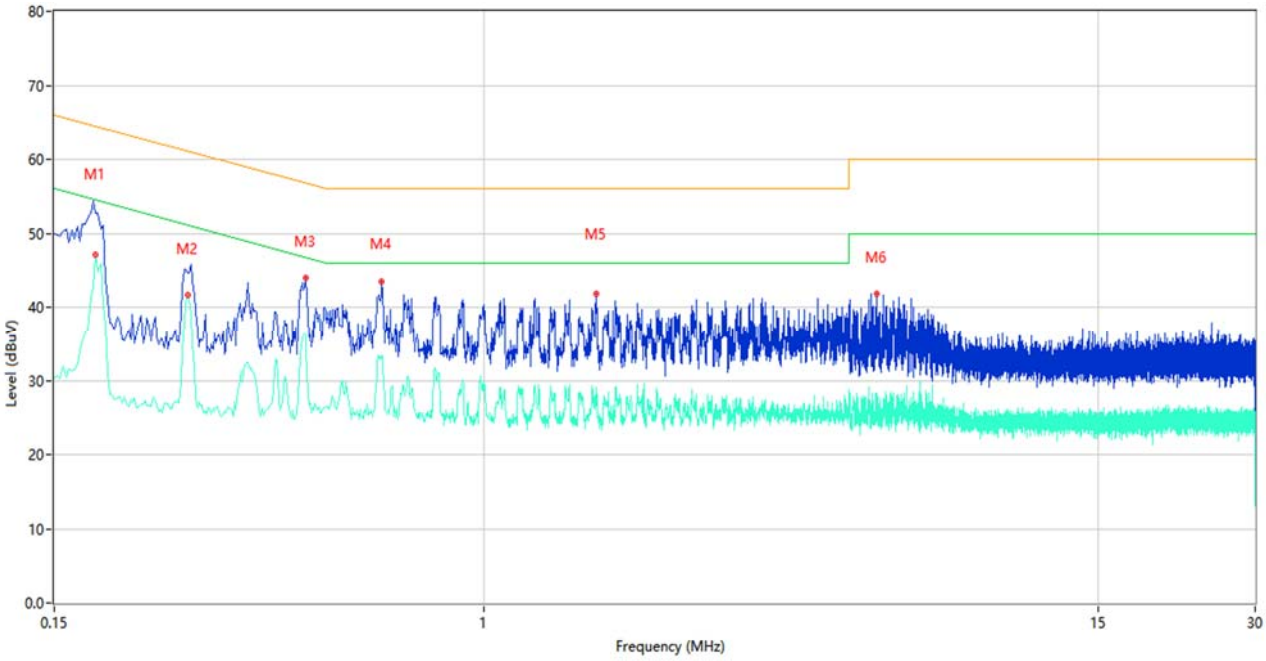
A.2.6 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.202	53.33	10.96	63.53	-10.20	Peak	N	Pass
1**	0.202	47.58	10.96	53.53	-5.95	AV	N	Pass
2	0.274	45.75	10.90	61.00	-15.25	Peak	N	Pass
2**	0.274	41.24	10.90	51.00	-9.76	AV	N	Pass
3	0.638	45.63	10.86	56.00	-10.37	Peak	N	Pass
3**	0.638	35.87	10.86	46.00	-10.13	AV	N	Pass
4	1.012	47.93	10.70	56.00	-8.07	Peak	N	Pass
4**	1.012	34.75	10.70	46.00	-11.25	AV	N	Pass
5	1.182	45.29	10.71	56.00	-10.71	Peak	N	Pass
5**	1.182	32.26	10.71	46.00	-13.74	AV	N	Pass
6	2.022	45.58	10.75	56.00	-10.42	Peak	N	Pass
6**	2.022	32.28	10.75	46.00	-13.72	AV	N	Pass

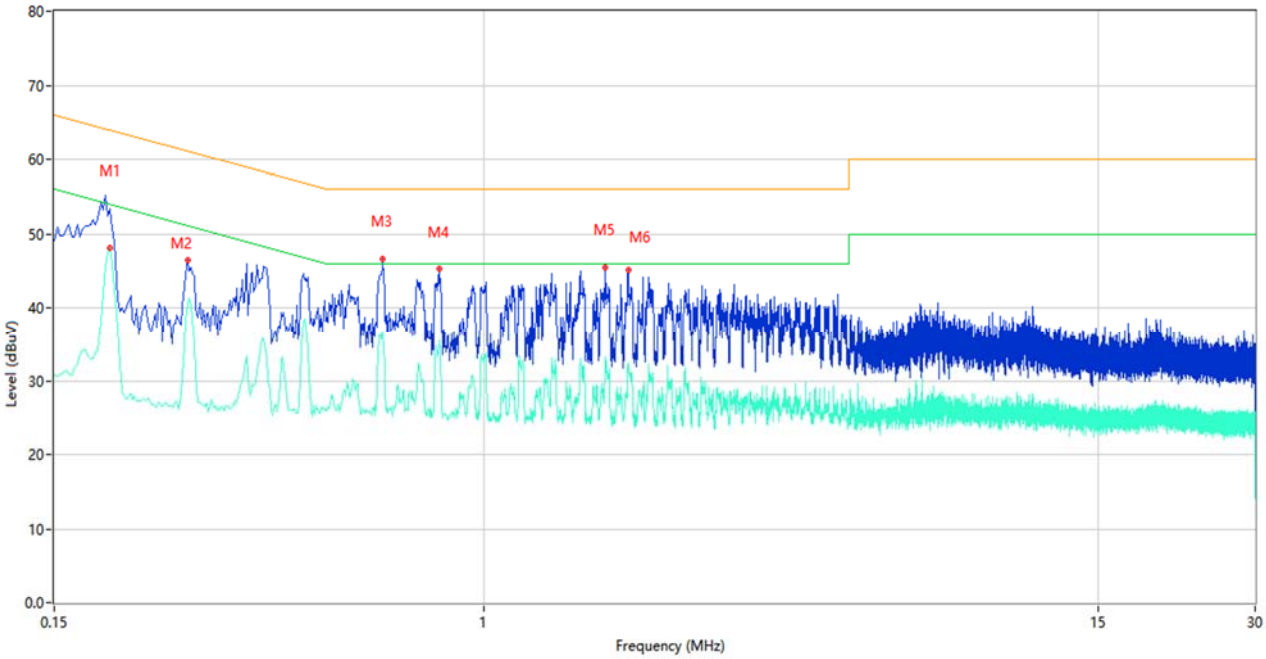
Simultaneous (Coil-1 + Coil-2 + Coil-3)

A.2.7 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.180	52.75	10.97	64.49	-11.74	Peak	L	Pass
1**	0.180	47.19	10.97	54.49	-7.30	AV	L	Pass
2	0.270	44.68	10.90	61.12	-16.44	Peak	L	Pass
2**	0.270	41.65	10.90	51.12	-9.47	AV	L	Pass
3	0.454	44.01	10.91	56.80	-12.79	Peak	L	Pass
3**	0.454	36.21	10.91	46.80	-10.59	AV	L	Pass
4	0.636	43.45	10.86	56.00	-12.55	Peak	L	Pass
4**	0.636	33.09	10.86	46.00	-12.91	AV	L	Pass
5	1.640	41.80	10.73	56.00	-14.20	Peak	L	Pass
5**	1.640	29.02	10.73	46.00	-16.98	AV	L	Pass
6	5.638	41.85	10.71	60.00	-18.15	Peak	L	Pass
6**	5.638	25.30	10.71	50.00	-24.70	AV	L	Pass

A.2.8 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.192	53.42	10.96	63.95	-10.53	Peak	N	Pass
1**	0.192	48.06	10.96	53.95	-5.89	AV	N	Pass
2	0.270	46.50	10.90	61.12	-14.62	Peak	N	Pass
2**	0.270	40.57	10.90	51.12	-10.55	AV	N	Pass
3	0.640	46.68	10.86	56.00	-9.32	Peak	N	Pass
3**	0.640	36.29	10.86	46.00	-9.71	AV	N	Pass
4	0.822	45.24	10.78	56.00	-10.76	Peak	N	Pass
4**	0.822	35.48	10.78	46.00	-10.52	AV	N	Pass
5	1.706	45.51	10.74	56.00	-10.49	Peak	N	Pass
5**	1.706	32.92	10.74	46.00	-13.08	AV	N	Pass
6	1.888	45.14	10.74	56.00	-10.86	Peak	N	Pass
6**	1.888	32.16	10.74	46.00	-13.84	AV	N	Pass

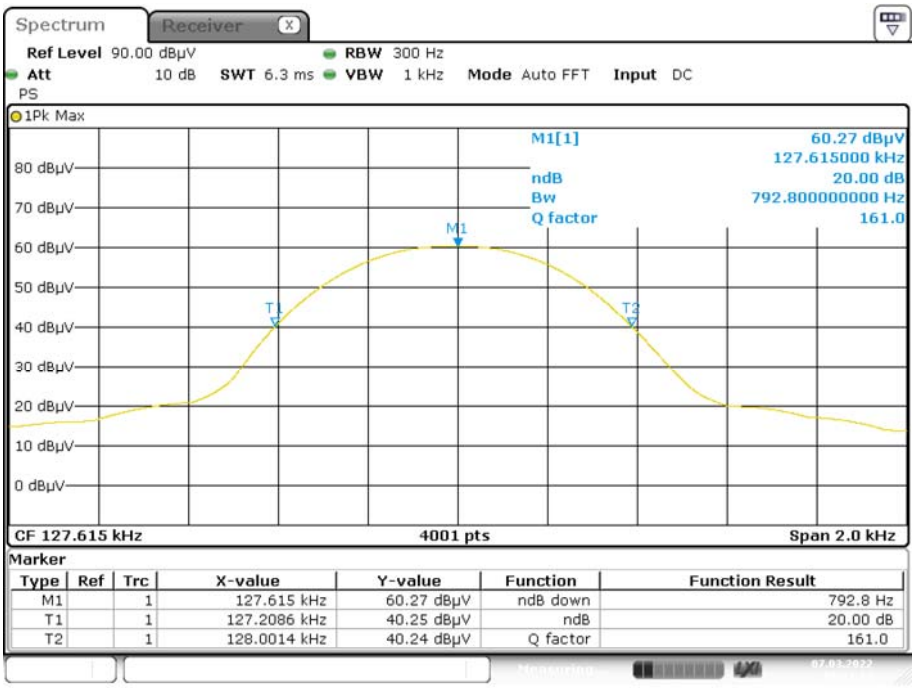
A.3 20 dB Bandwidth

Note: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

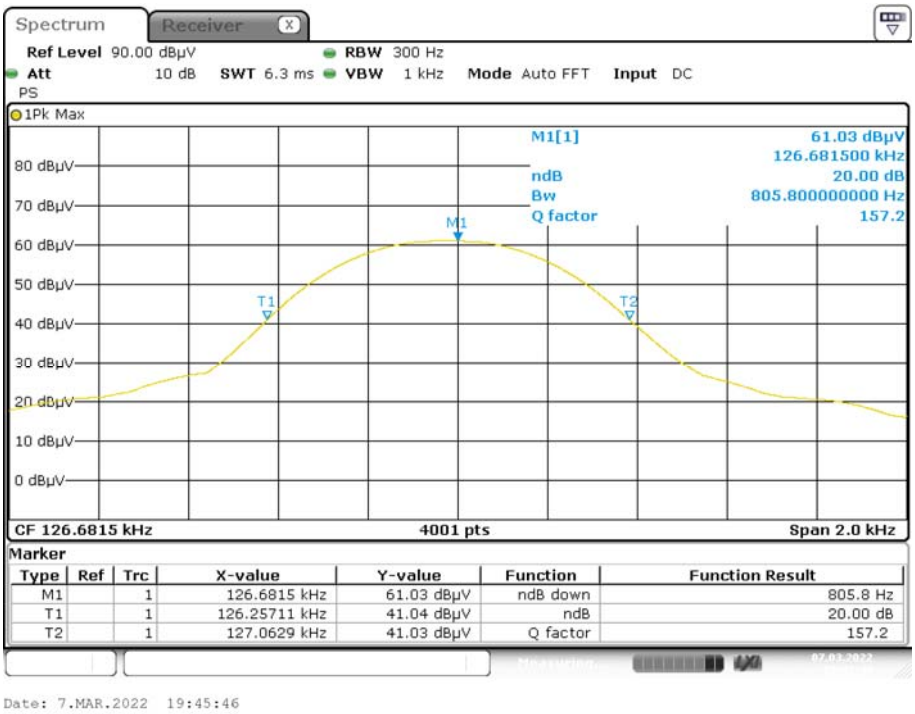
Test Plots

20 dB Bandwidth

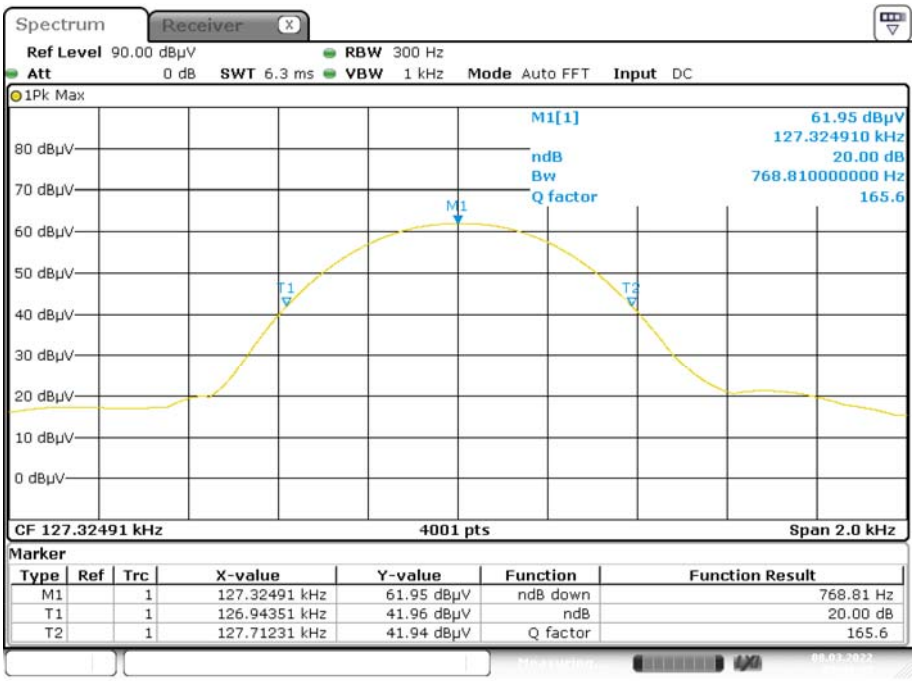
Coil-1



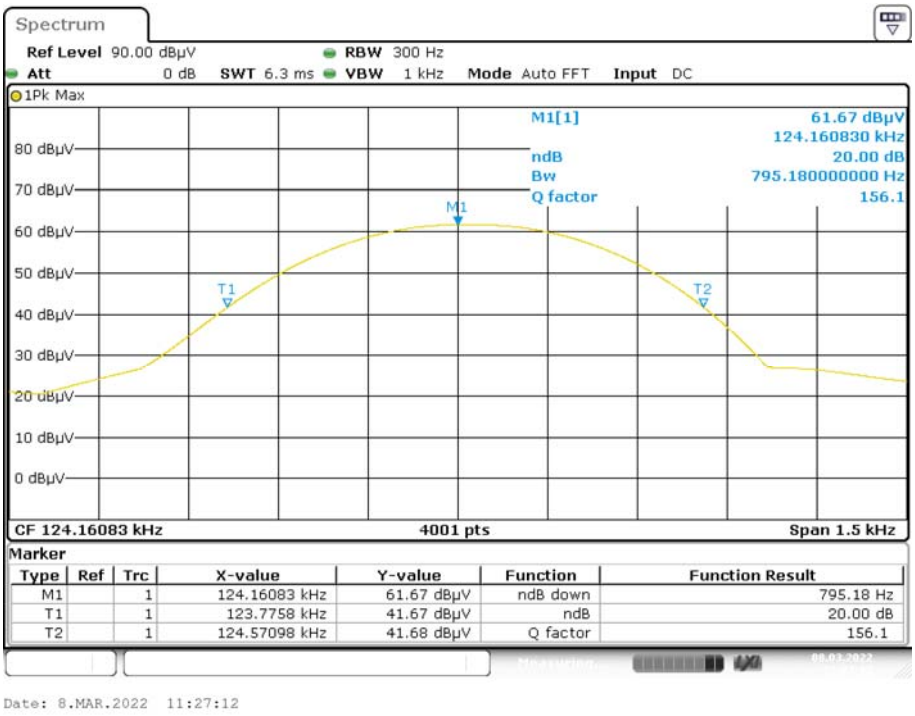
Coil-2

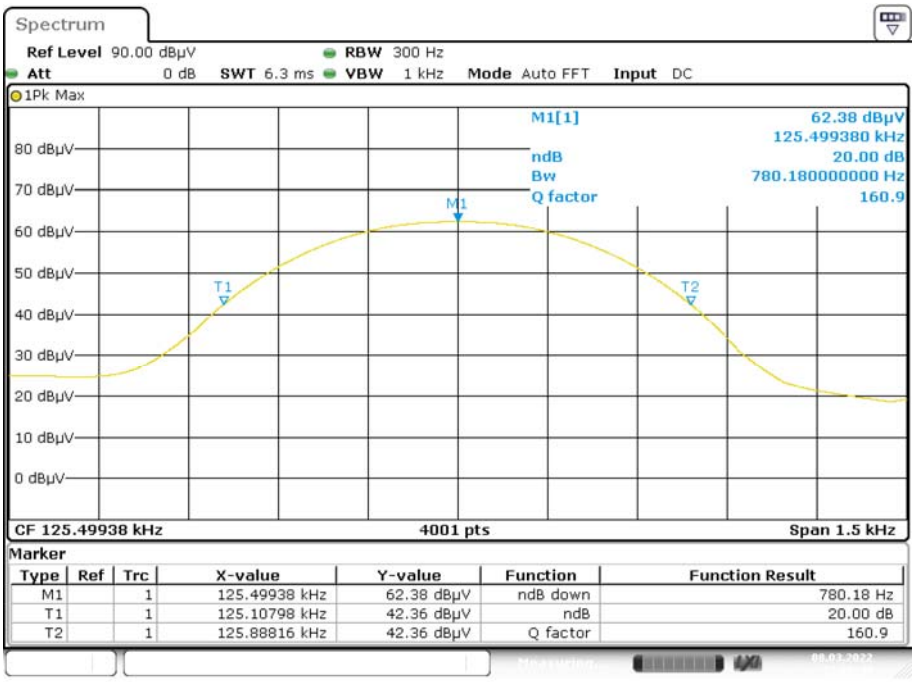


Coil-3

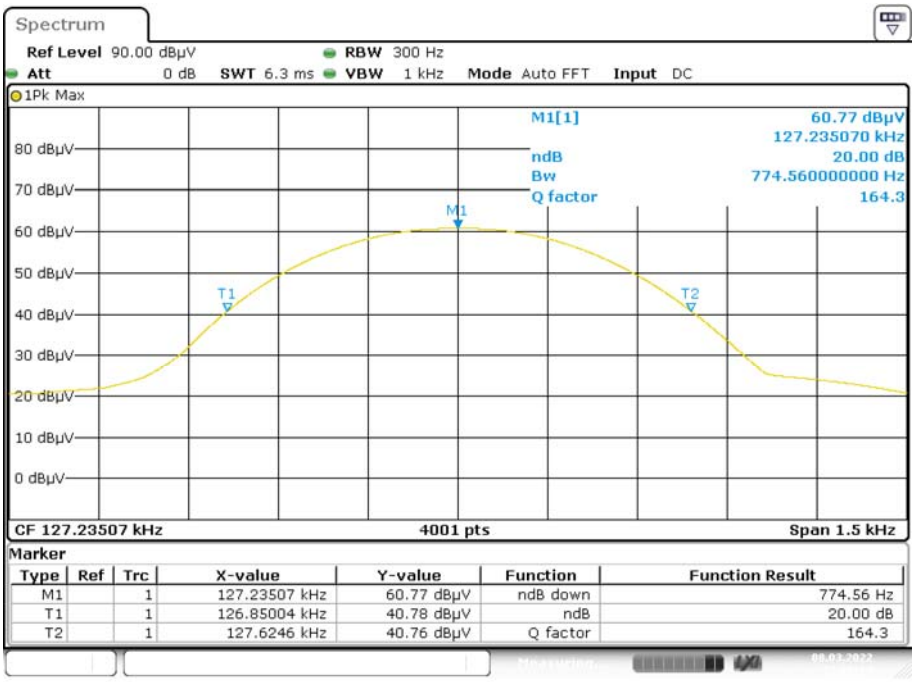


Simultaneous (Coil-1 + Coil-2 + Coil-3)





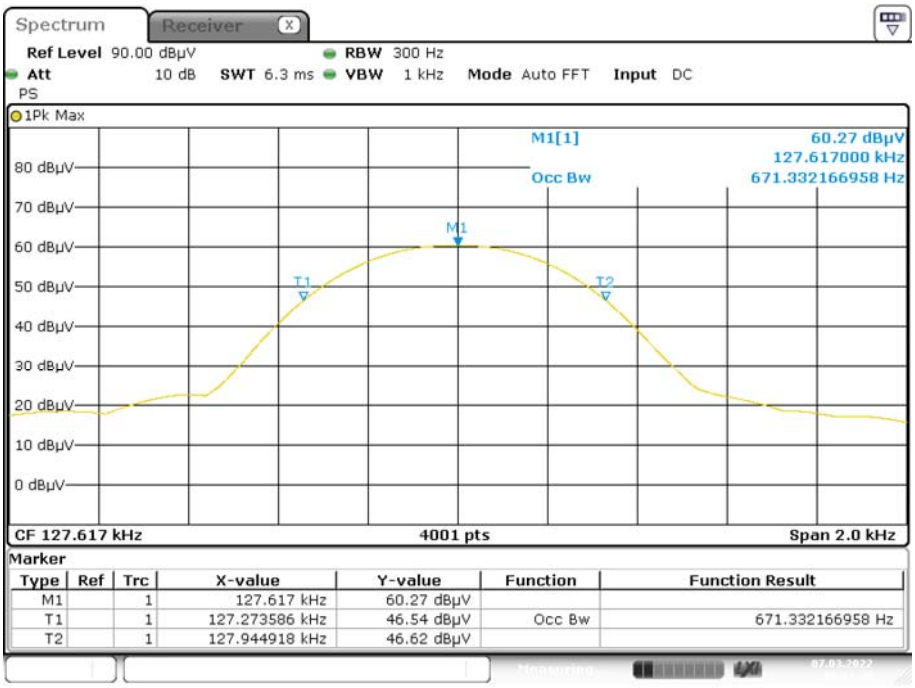
Date: 8.MAR.2022 11:26:40



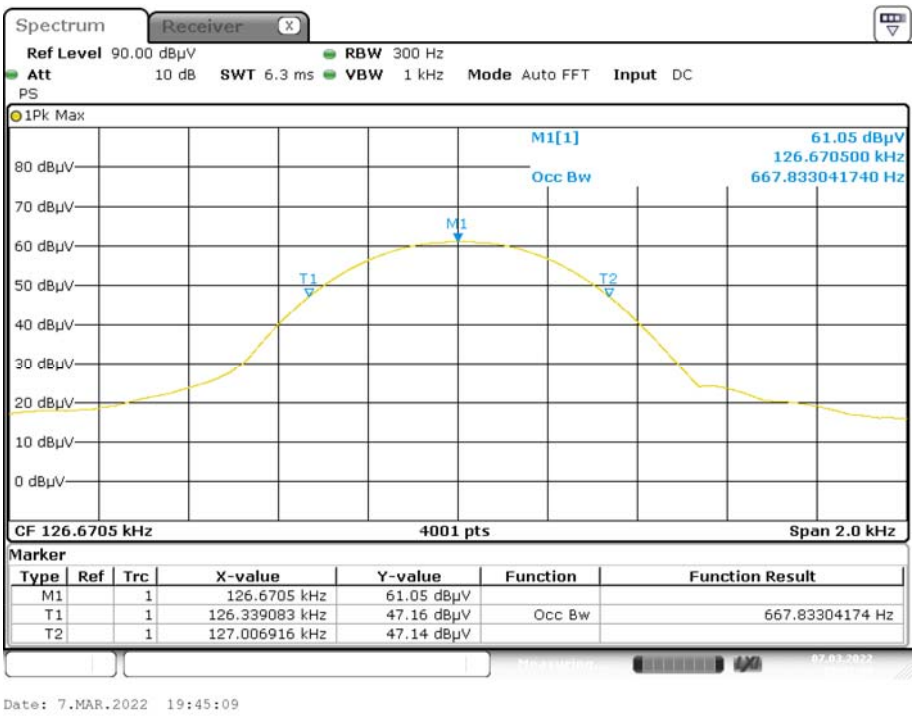
Date: 8.MAR.2022 11:26:14

99% Bandwidth

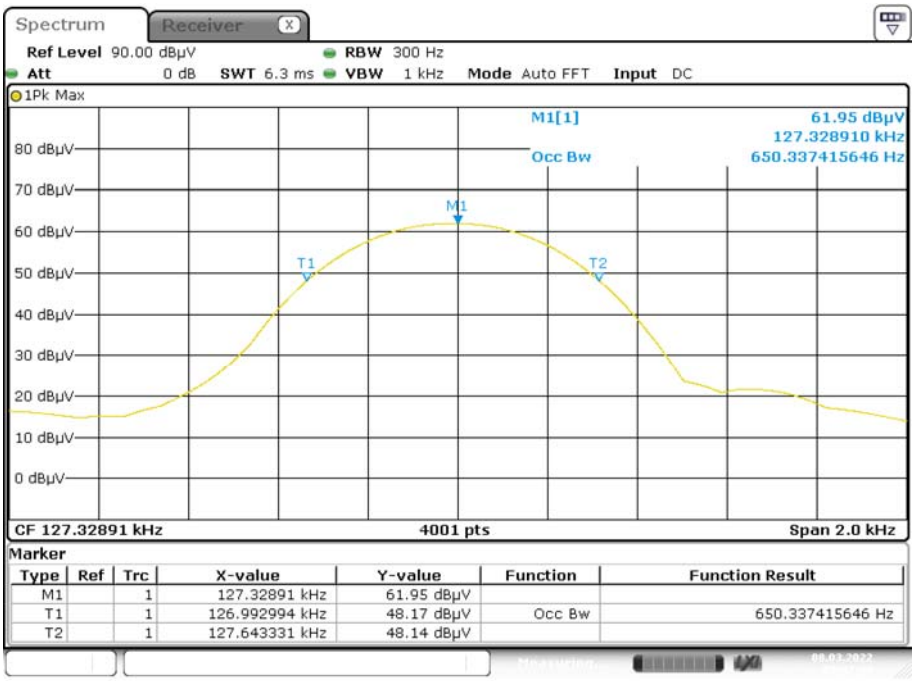
Coil-1



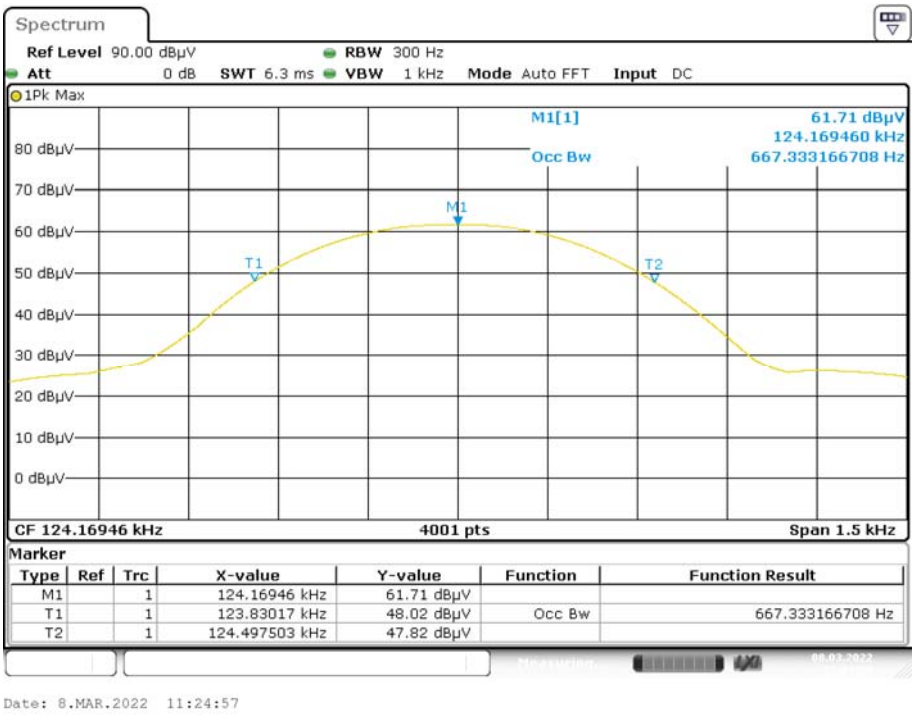
Coil-2

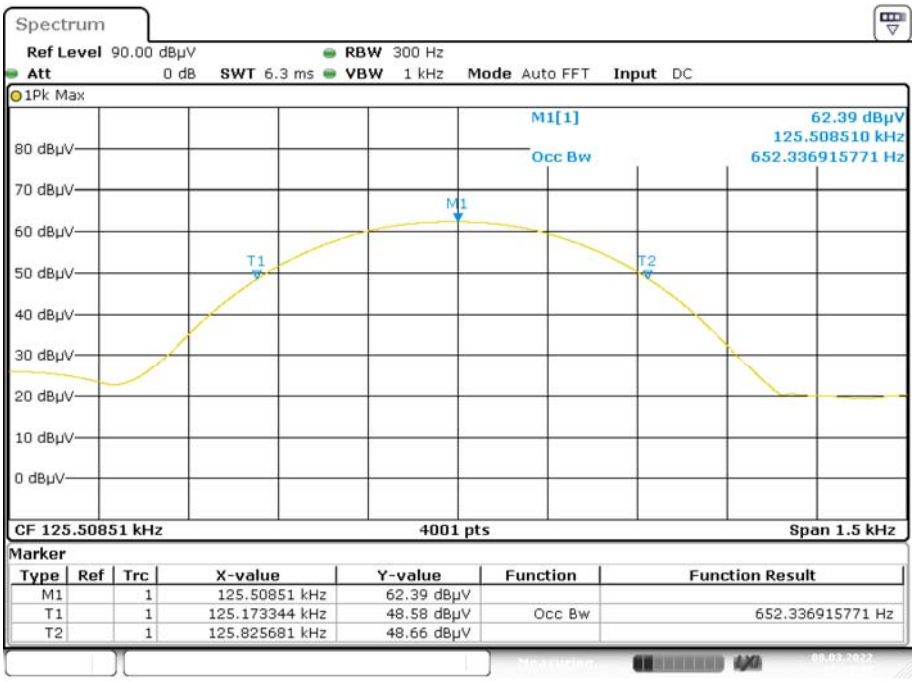


Coil-3



Simultaneous (Coil-1 + Coil-2 + Coil-3)

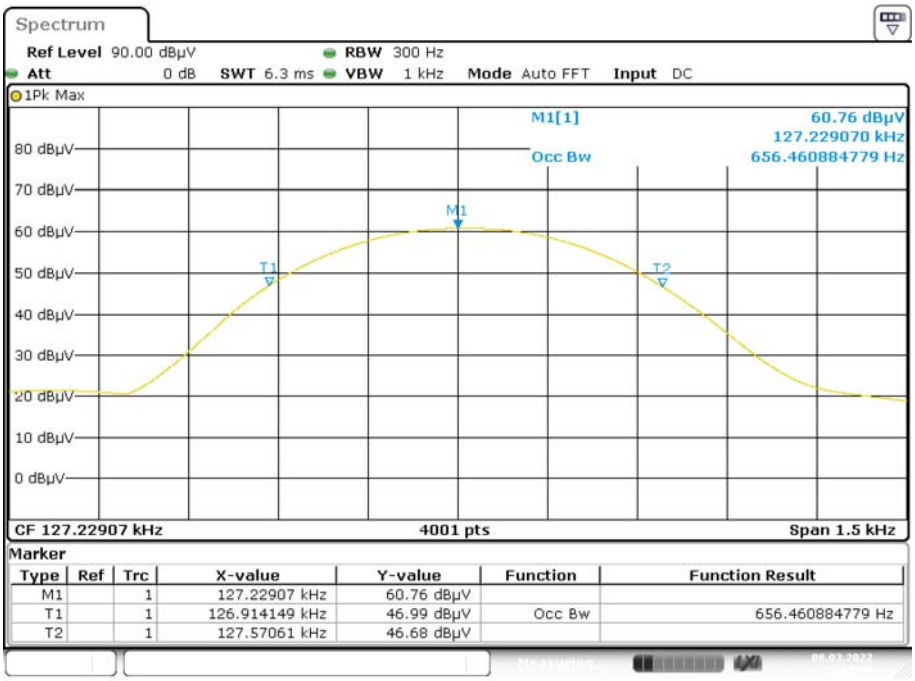




Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	125.50851 kHz	62.39 dBµV		
T1		1	125.173344 kHz	48.58 dBµV	Occ Bw	652.336915771 Hz
T2		1	125.825681 kHz	48.66 dBµV		

Date: 8.MAR.2022 11:23:45



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	127.22907 kHz	60.76 dBµV		
T1		1	126.914149 kHz	46.99 dBµV	Occ Bw	656.460884779 Hz
T2		1	127.57061 kHz	46.68 dBµV		

Date: 8.MAR.2022 11:25:38

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2040038-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2040038-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2040038-AI.PDF”.

--END OF REPORT--