

FCC Part 15C Measurement and Test Report

For

Elexa Consumer Products Inc.

2275 Half Day Road, Suite 333 Bannockburn IL 60015 USA

FCC ID: VII-GBR1

FCC Rule(s): FCC Part 15.249

Product Description: Bridge

Tested Model: GBR1

Report No.: STR18098186I-1

Sample Receipt Date: 2018-09-14

Tested Date: 2018-09-17 to 2018-11-12

Issued Date: 2018-11-12

Tested By: Ray Yang / Engineer



Reviewed By: Silin Chen / EMC Manager



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Note: 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 SEM.Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Alexa Consumer Products Inc.
 Address of applicant: 2275 Half Day Road, Suite 333 Bannockburn IL 60015 USA

Manufacturer: Zmartgears Limited.
 Address of manufacturer: 4F, Building A3, Digital Tech Park Gaoxin South 7th Rd, Science Park, Nanshan District, SZ 518057, GD, CN

General Description of EUT	
Product Name:	Bridge
Brand Name:	Guardian
Model No.:	GBR1
Adding Model:	/
Rated Voltage:	DC 5V
Battery capacity:	/
Power Adaptor:	Model:WP12-0502000U INPUT:AC100-240V 50/60Hz 0.5A OUTPUT:DC5V/2A
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Z-Wave	
Frequency Range:	908.4MHz, 916.0MHz
Max. Field Strength:	92.88dBuV/m
Modulation:	FSK
Antenna Type:	Integral Antenna
Antenna Gain:	0dBi
LoRa	
Frequency Range:	915MHz
Max. Field Strength:	90.38dBuV/m
Modulation:	LoRa
Antenna Type:	Integral Antenna
Antenna Gain:	0dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	908.4MHz(Z-Wave)
TM2	High Channel	916.0MHz(Z-Wave)
TM3	915MHz	LoRa™

Test Conditions	
Temperature:	22~25 °C
Relative humidity	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB
Transmitter Spurious Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-18GHz ±3.92dB

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2018-05-22	2019-05-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2018-05-22	2019-05-21
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2018-05-22	2019-05-21
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2018-05-22	2019-05-21
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2018-03-19	2021-03-18
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2018-03-19	2019-03-18
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2018-03-19	2019-03-18
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2018-03-19	2019-03-18
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2018-03-19	2019-03-18
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.209(a)(f)	Radiated Spurious Emissions	Compliant
§15.249(a)	Field Strength of Emissions	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.215 (c)	Emission Bandwidth	Compliant

N/A: not applicable

3. Antenna Requirements

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

4. Radiated Emissions

4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

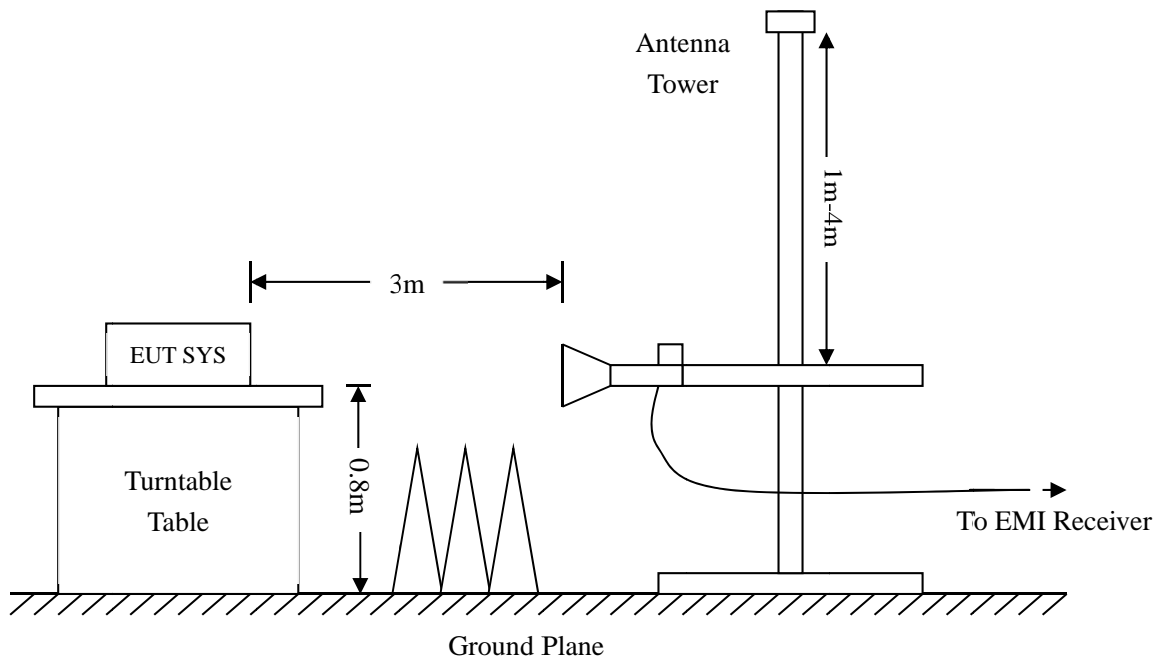
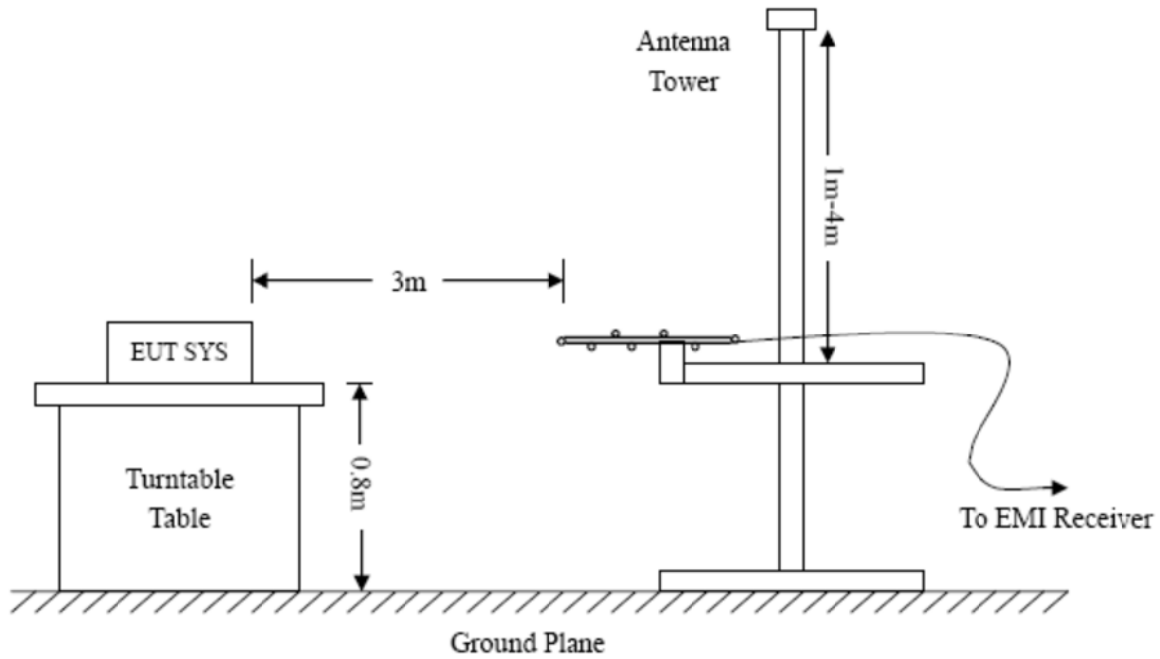
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

4.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



Frequency :9kHz-30MHz
 RBW=10KHz,
 VBW =30KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak

Frequency :30MHz-1GHz
 RBW=120KHz,
 VBW=300KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, QP

Frequency :Above 1GHz
 RBW=1MHz,
 VBW=3MHz(Peak), 10Hz(AV)
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, AV

4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6\text{dB}\mu\text{V}$ means the emission is $6\text{dB}\mu\text{V}$ below the maximum limit. The equation for margin calculation is as follows:

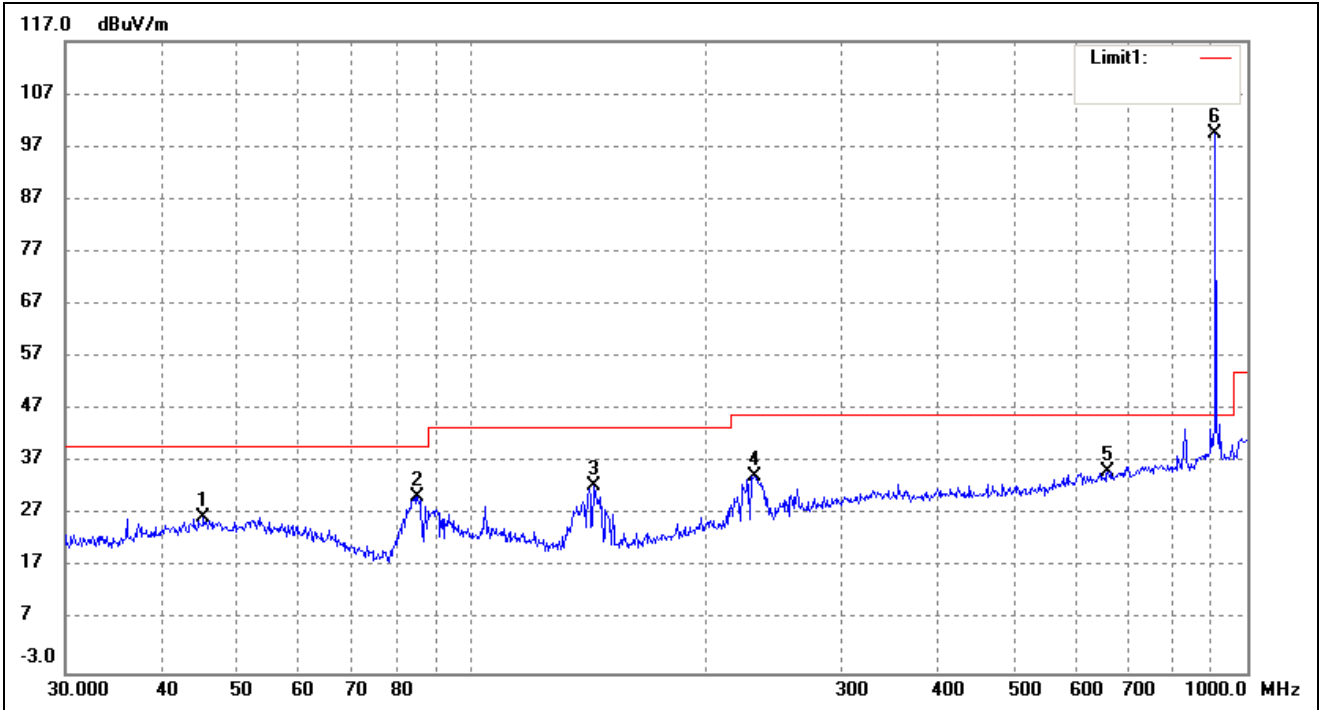
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

4.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

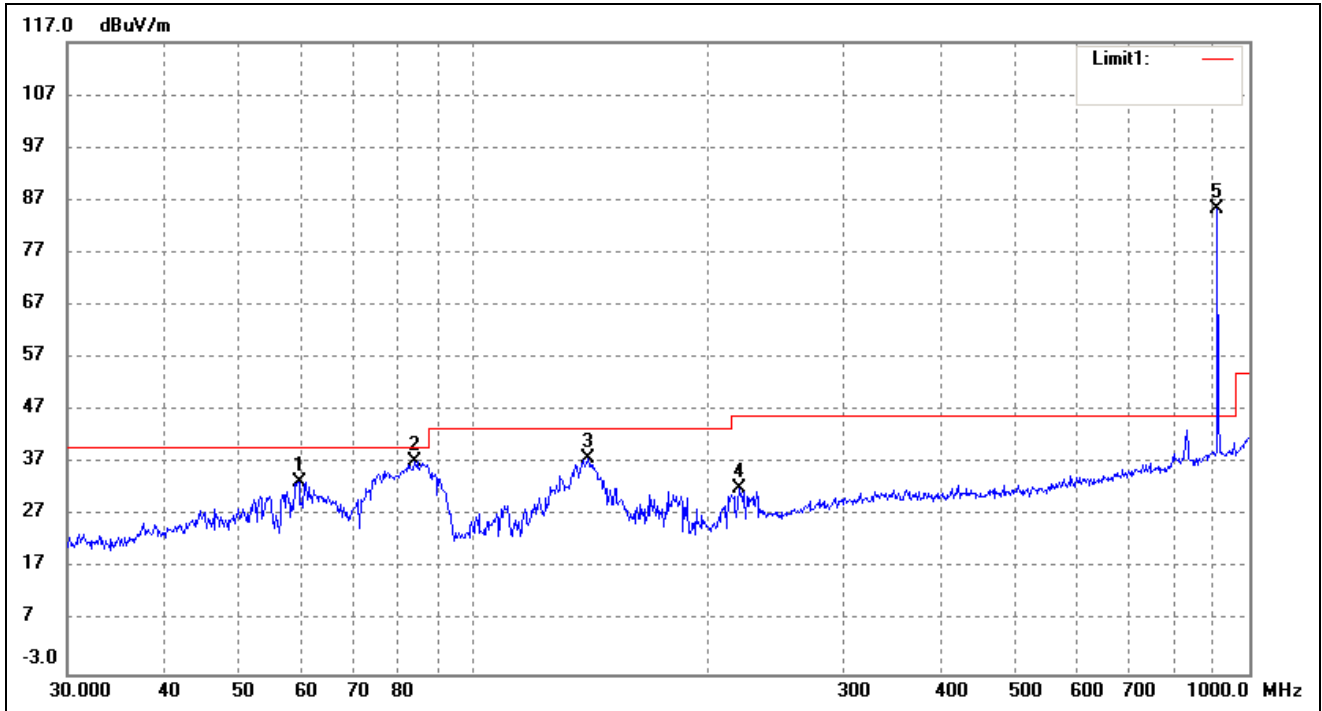
➤ Spurious Emissions Below 1GHz

Z-Wave			
Test Channel	Low	Polarity:	Horizontal



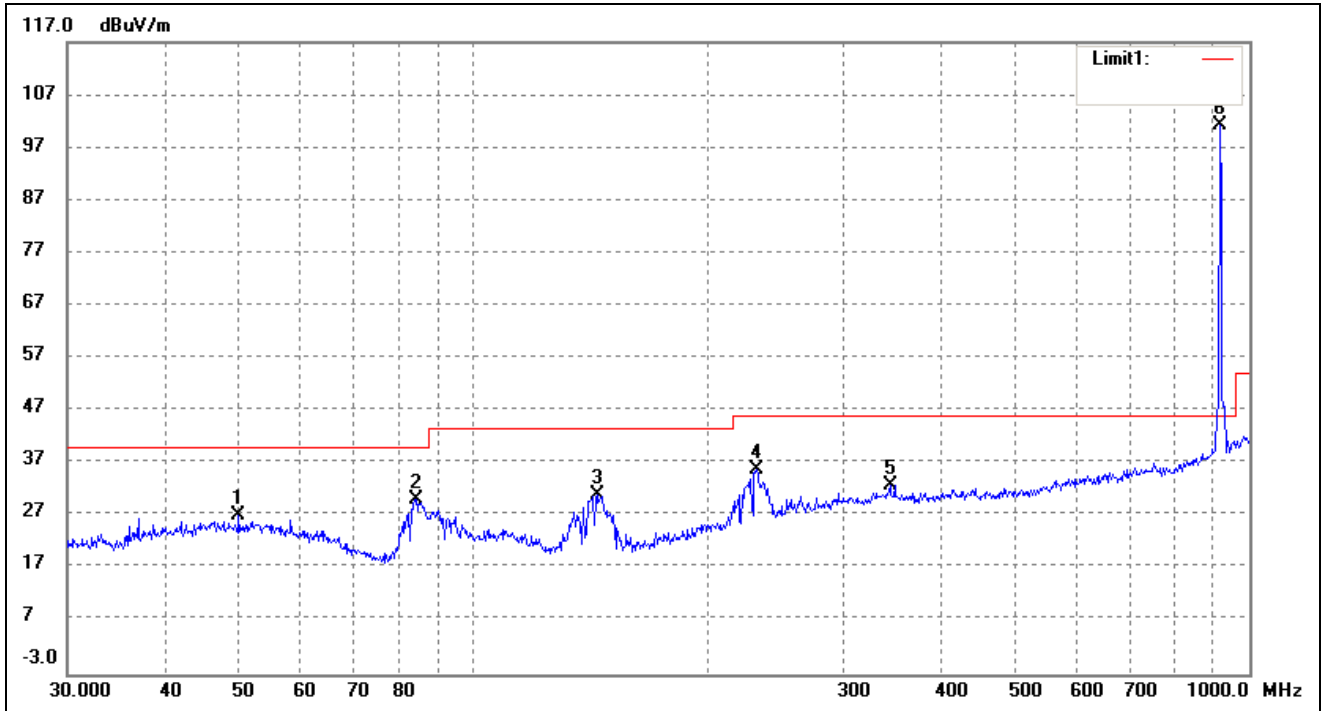
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.2166	39.44	-12.96	26.48	40.00	-13.52	328	100	peak
2	85.2980	48.51	-18.16	30.35	40.00	-9.65	96	100	peak
3	143.8295	49.59	-17.07	32.52	43.50	-10.98	353	100	peak
4	231.7179	45.14	-10.70	34.44	46.00	-11.56	114	100	peak
5	661.1505	38.41	-3.23	35.18	46.00	-10.82	79	100	peak

Test Channel	Low	Polarity:	Vertical
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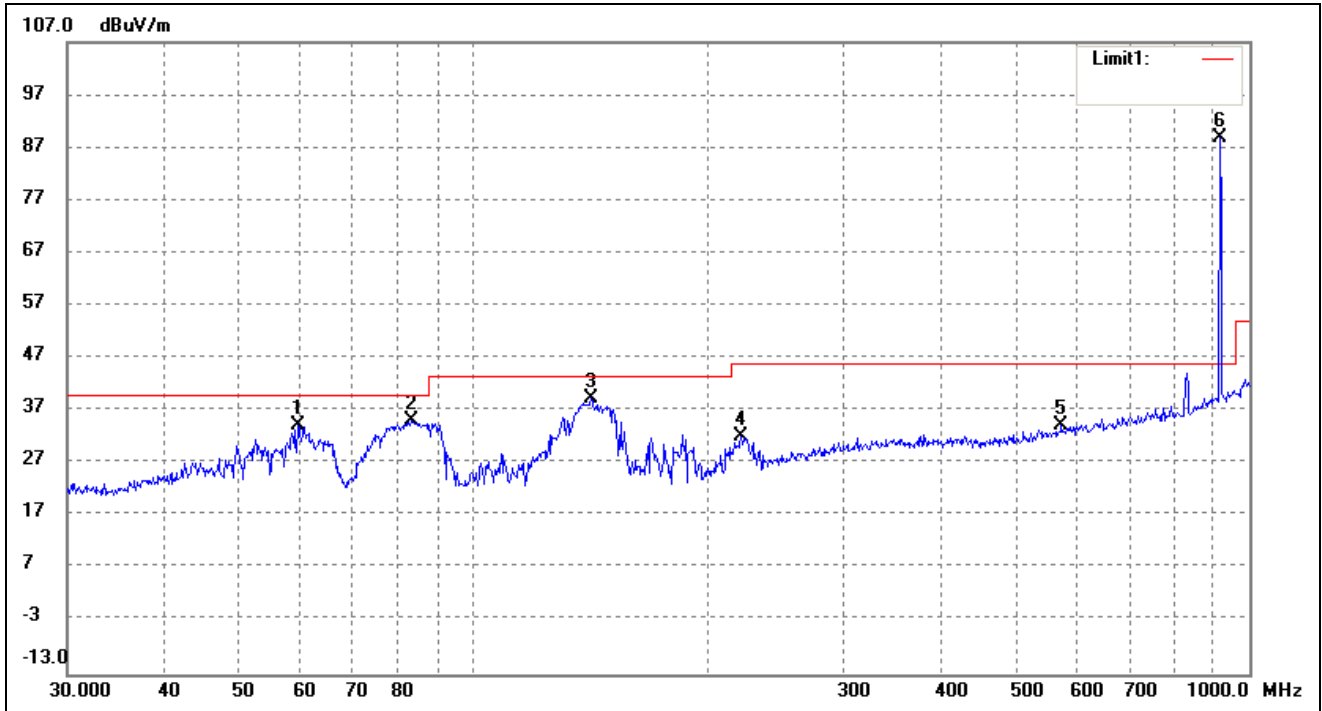
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	59.6493	48.10	-14.53	33.57	40.00	-6.43	285	100	peak
2	84.1100	55.59	-18.36	37.23	40.00	-2.77	251	100	peak
3	140.8351	54.87	-16.97	37.90	43.50	-5.60	80	100	peak
4	219.8449	43.46	-11.32	32.14	46.00	-13.86	295	100	peak

Test Channel	High	Polarity:	Horizontal
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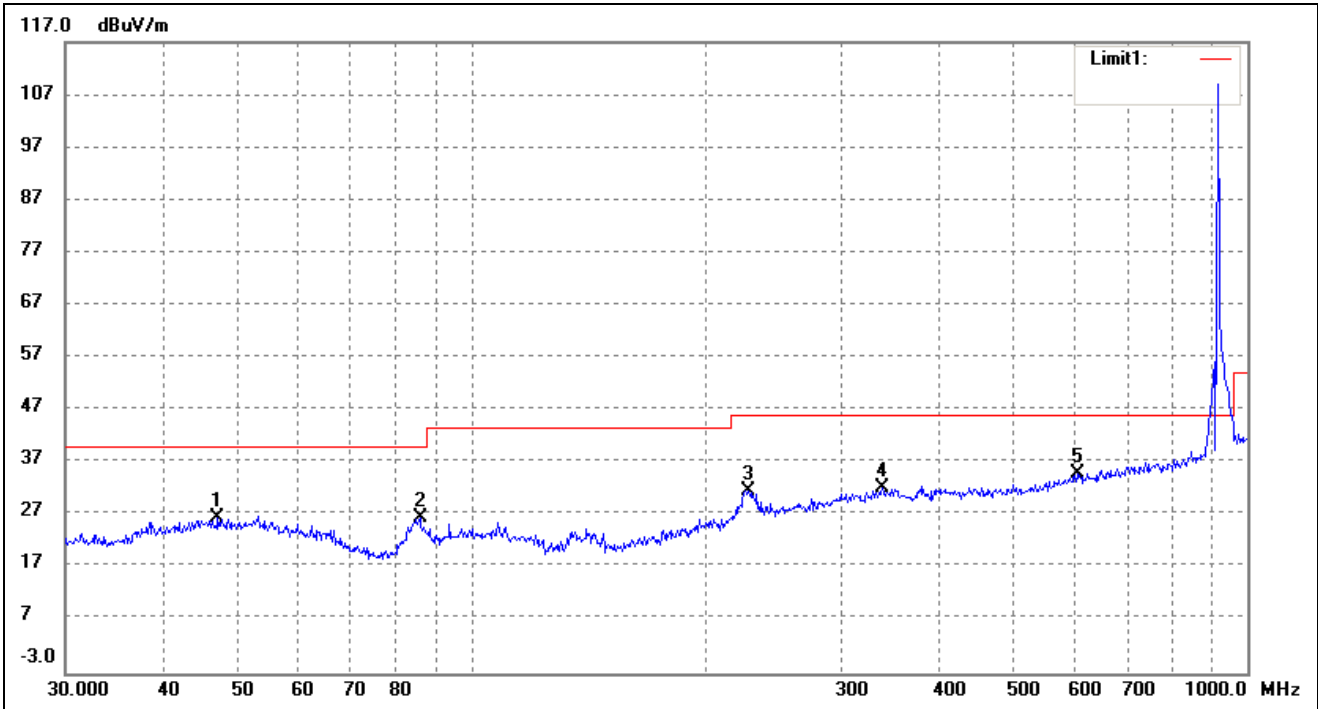
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.8814	39.97	-12.92	27.05	40.00	-12.95	183	100	peak
2	84.4054	48.41	-18.33	30.08	40.00	-9.92	198	100	peak
3	144.3348	48.10	-17.08	31.02	43.50	-12.48	74	100	peak
4	231.7179	46.49	-10.70	35.79	46.00	-10.21	135	100	peak
5	344.3855	39.33	-6.49	32.84	46.00	-13.16	81	100	peak

Test Channel	High	Polarity:	Vertical
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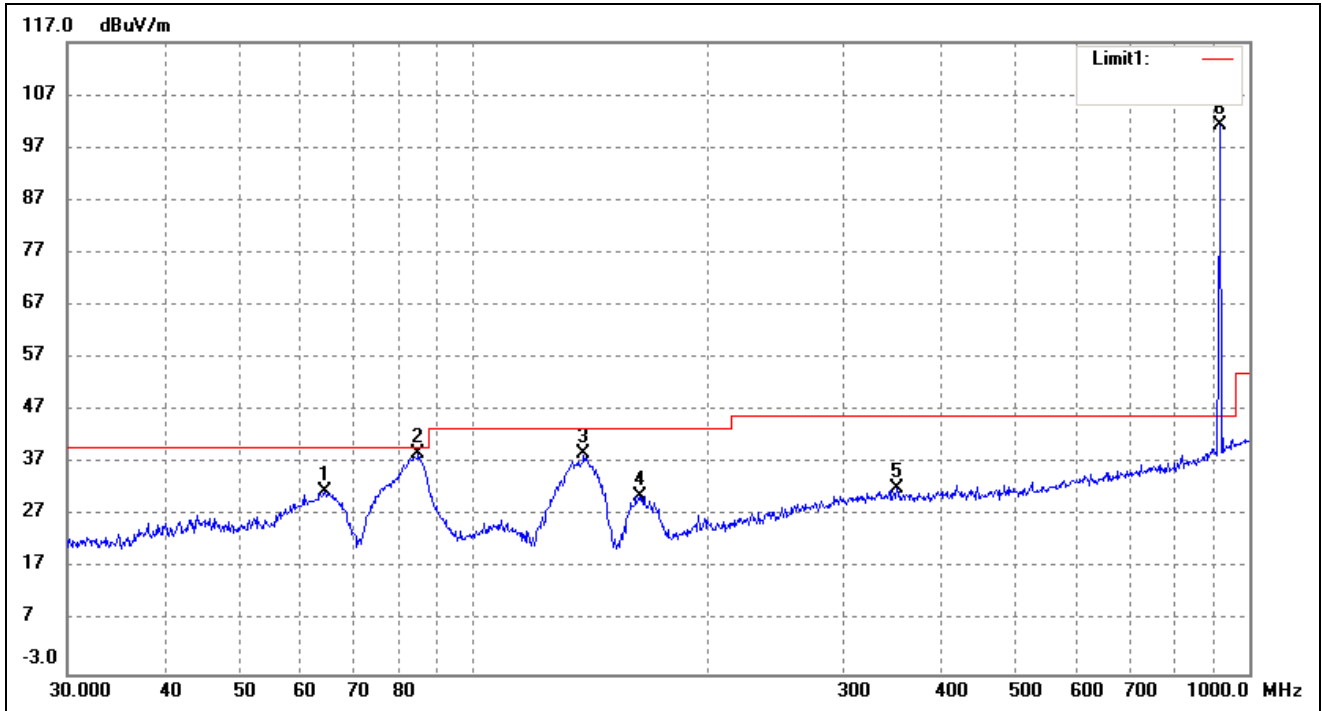
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	59.4405	48.61	-14.50	34.11	40.00	-5.89	94	100	peak
2	83.2298	53.55	-18.45	35.10	40.00	-4.90	98	100	peak
3	141.8262	56.23	-17.00	39.23	43.50	-4.27	111	100	peak
4	221.3921	43.46	-11.27	32.19	46.00	-13.81	100	100	peak
5	572.6144	38.93	-4.64	34.29	46.00	-11.71	294	100	peak

LoRa™			
Test Channel	Low	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.1599	39.28	-12.83	26.45	40.00	-13.55	121	100	peak
2	85.8984	44.51	-17.94	26.57	40.00	-13.43	185	100	peak
3	227.6906	42.65	-10.96	31.69	46.00	-14.31	68	100	peak
4	338.4001	38.90	-6.56	32.34	46.00	-13.66	251	100	peak
5	603.5392	38.82	-3.95	34.87	46.00	-11.13	216	100	peak

Test Channel	Low	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	64.4331	46.74	-15.16	31.58	40.00	-8.42	313	100	peak
2	84.9995	57.02	-18.27	38.75	40.00	-1.25	295	100	peak
3	138.8735	55.69	-16.99	38.70	43.50	-4.80	93	100	peak
4	163.7550	46.63	-15.76	30.87	43.50	-12.63	149	100	peak
5	351.7079	38.81	-6.52	32.29	46.00	-13.71	163	100	peak

➤ Spurious Emissions Above 1GHz

Z-Wave							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-908.4MHz							
1816.80	56.98	-11.61	45.37	74.00	-28.63	H	PK
1816.80	40.47	-11.61	28.86	54.00	-25.14	H	AV
1816.80	57.64	-11.61	46.03	74.00	-27.97	V	PK
1816.80	40.93	-11.61	29.32	54.00	-24.68	V	AV
916.0MHz							
1832.00	59.64	-11.40	48.24	74.00	-25.76	H	PK
1832.00	43.93	-11.40	32.53	54.00	-21.47	H	AV
1832.00	60.72	-11.40	49.32	74.00	-24.68	V	PK
1832.00	42.11	-11.40	30.71	54.00	-23.29	V	AV

LoRa™							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-915MHz							
1830.00	60.86	-11.61	49.25	74.00	-24.75	H	PK
1830.00	48.44	-11.61	36.83	54.00	-17.17	H	AV
1830.00	61.84	-11.61	50.23	74.00	-23.77	V	PK
1830.00	48.71	-11.61	37.10	54.00	-16.90	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

5. Out of Band Emissions

5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 902MHz to 928MHz, than mark the higher-level emission for comparing with the FCC rules.

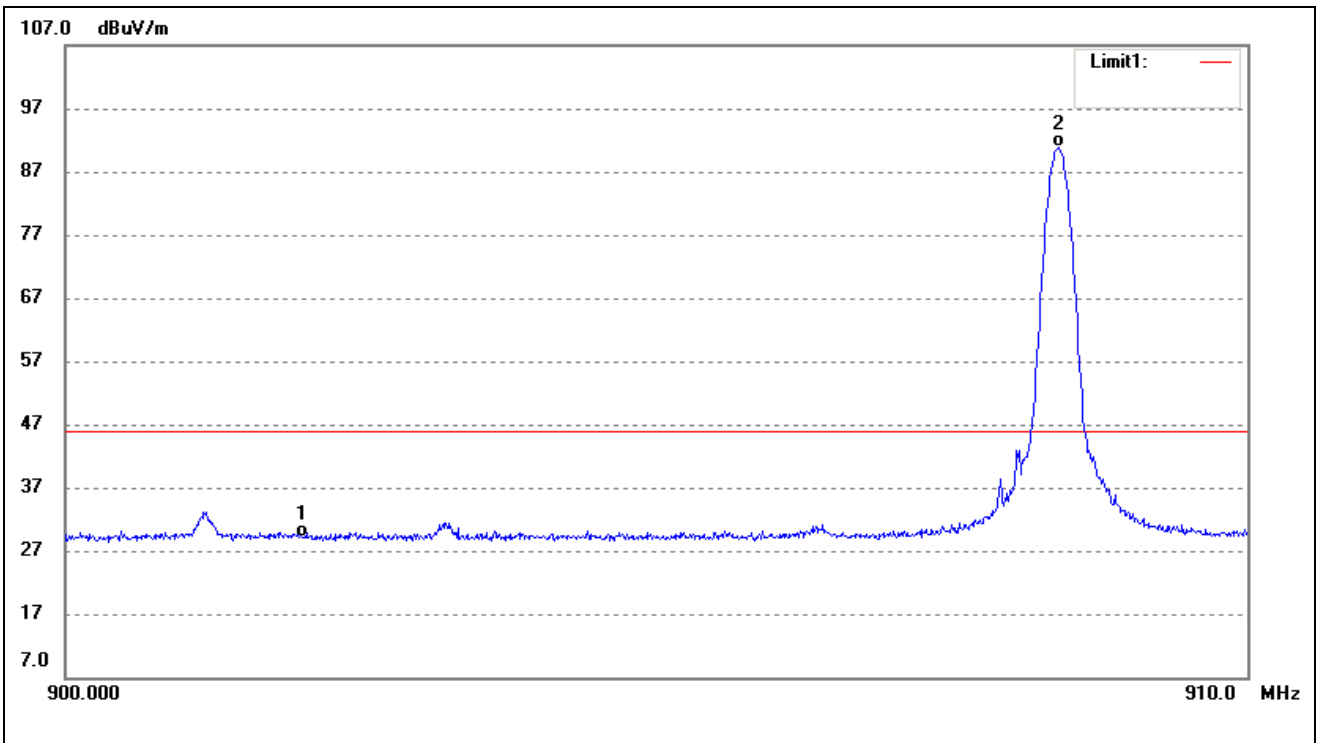
5.3 Summary of Test Results/Plots

Test mode	Frequency	Limit	Result
	MHz	dBuV / dBc	
Lowest	902.00	<46 dBuV	Pass
Highest	928.00	<46 dBuV	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

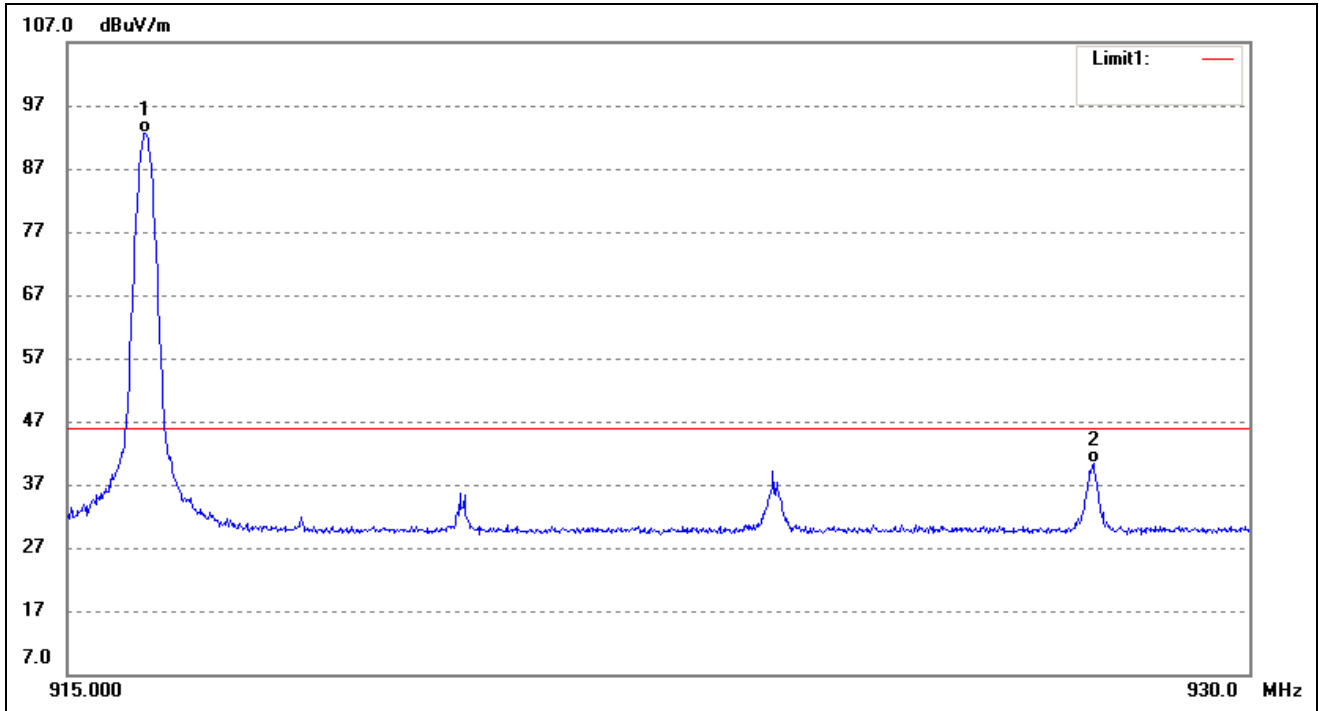
Please refer to the test plots as below.

Z-Wave			
Test Channel	Low	Polarity:	Horizontal (worst case)



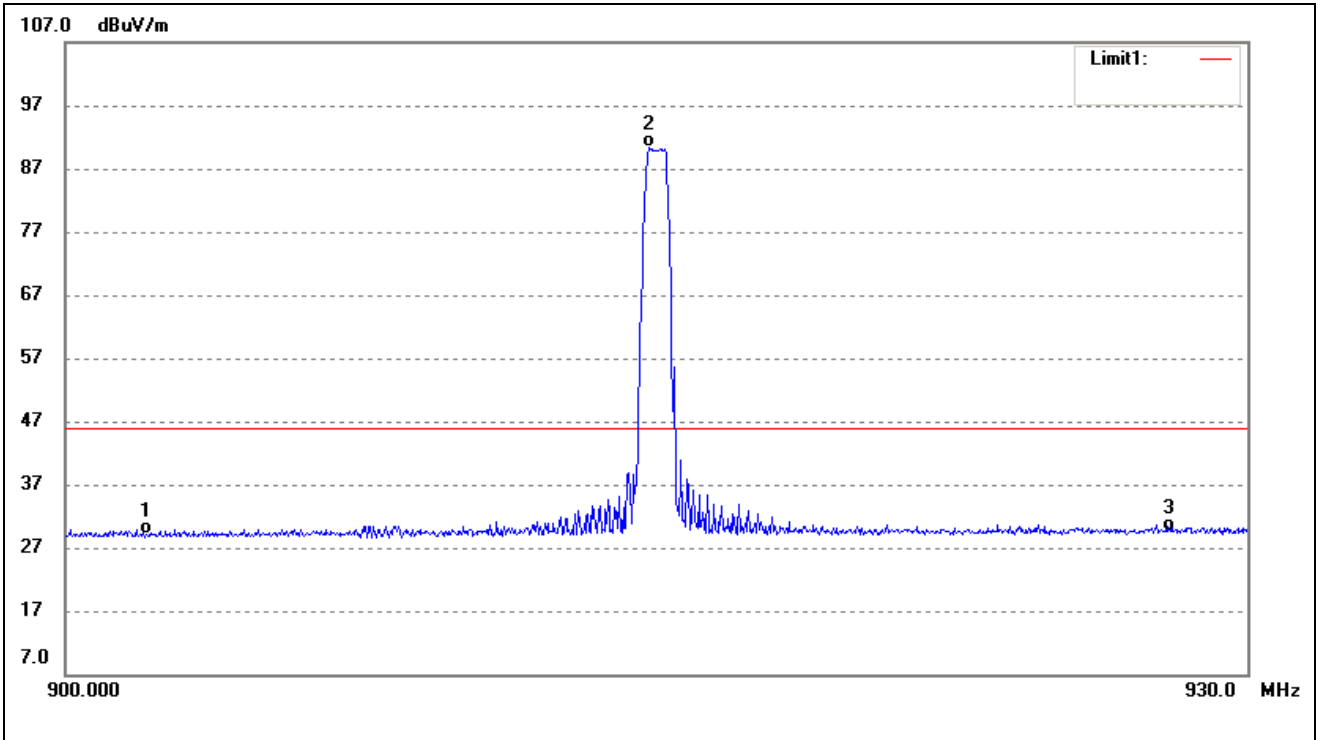
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	902.0000	27.66	1.44	29.10	46.00	-16.90	AVG
2	908.4000	89.25	1.60	90.92	114.00	-23.08	Peak
	908.4000	89.25	1.60	90.85	94.00	-3.15	AVG

Test Channel	High	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	916.0000	90.95	1.80	92.88	114.00	-21.12	Peak
2	916.0000	90.95	1.80	92.75	94.00	-1.25	AVG
	928.0000	38.30	2.01	40.31	46.00	-5.69	AVG

LoRa™			
Test Channel	/	Polarity:	Horizontal (worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	902.0000	27.61	1.44	29.05	46.00	-16.95	AVG
2	914.6970	88.50	1.76	90.38	114.00	-23.62	Peak
	914.6970	88.50	1.76	90.26	94.00	-3.74	AVG
	928.0000	27.67	2.01	29.68	46.00	-16.32	AVG

6. Emission Bandwidth

6.1 Standard Applicable

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 1MHz, centered on a transmitting channel

RBW \geq 1% 20dB Bandwidth, VBW \geq RBW

Sweep = auto

Detector function = peak

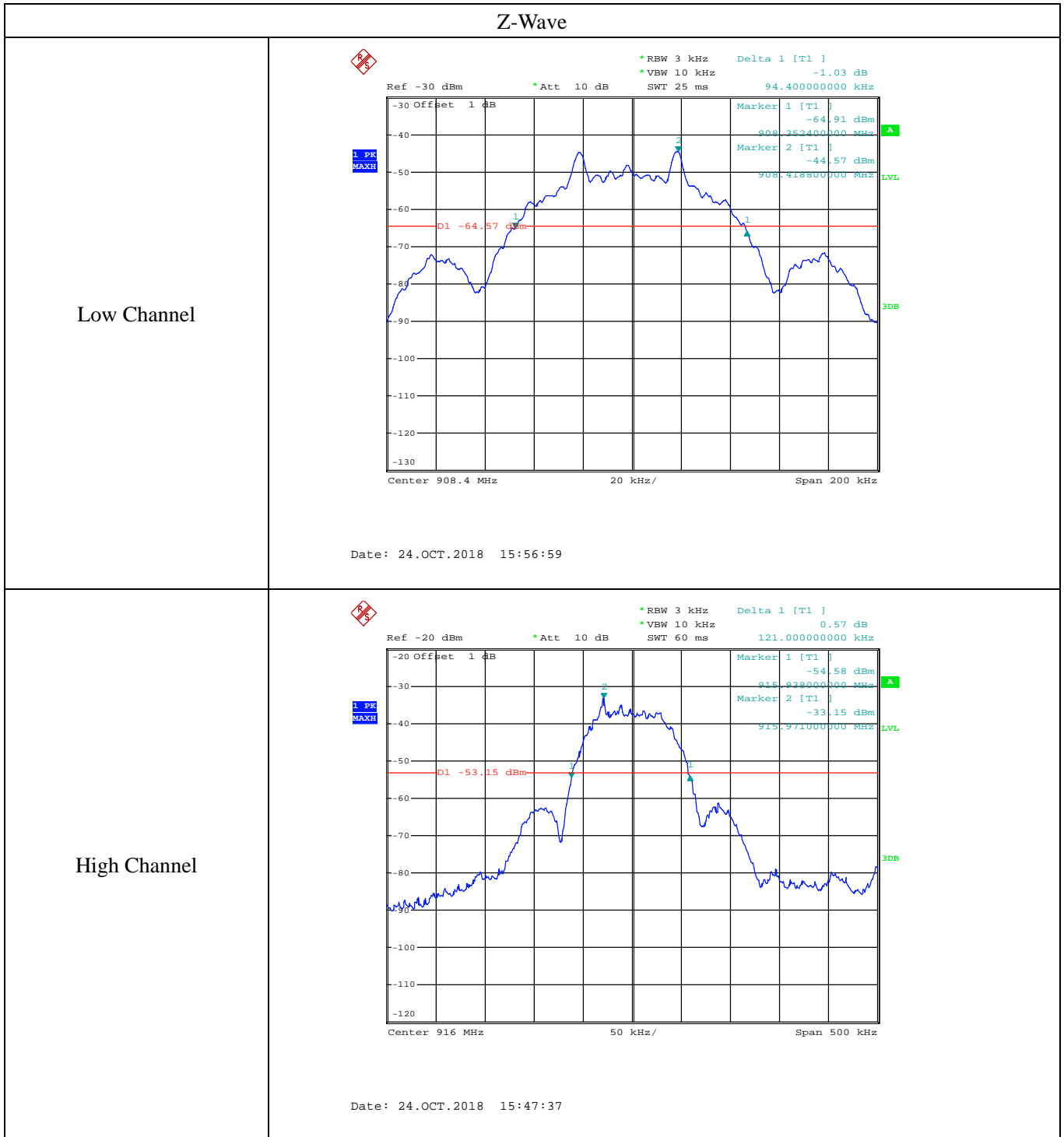
Trace = max hold

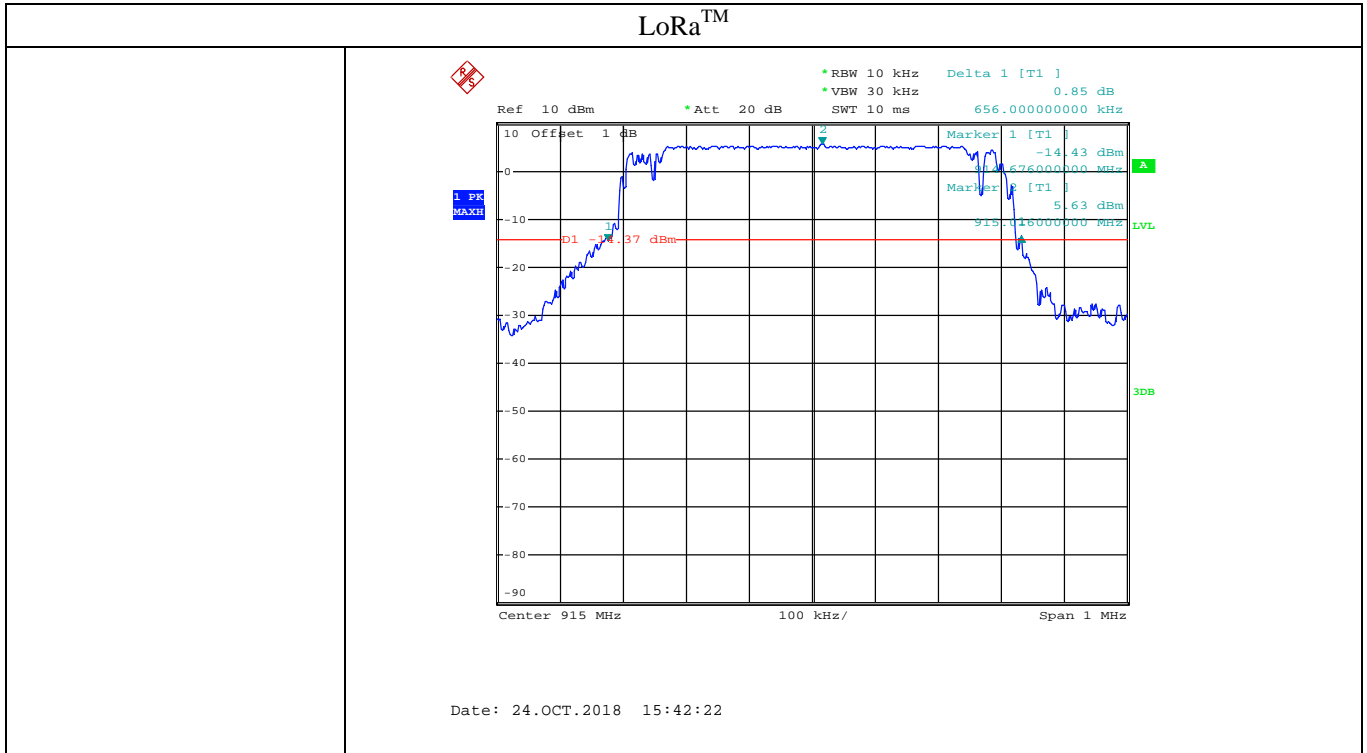
All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

6.3 Summary of Test Results/Plots

Test Mode	Channel	Frequency MHz	20dB Bandwidth kHz
Z-Wave	Low Channel	908.4	94.4
	High Channel	916.0	121
LoRa™	/	915.0	656

Please refer to the following test plots





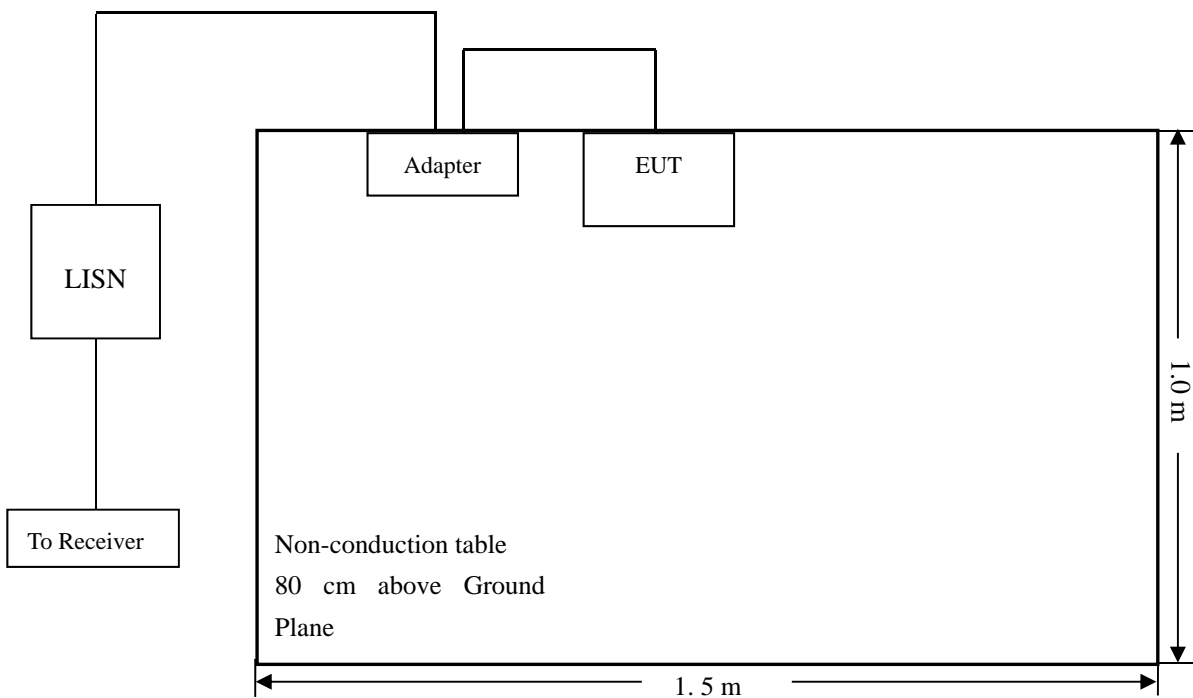
7. Conducted Emissions

7.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

7.2 Basic Test Setup Block Diagram



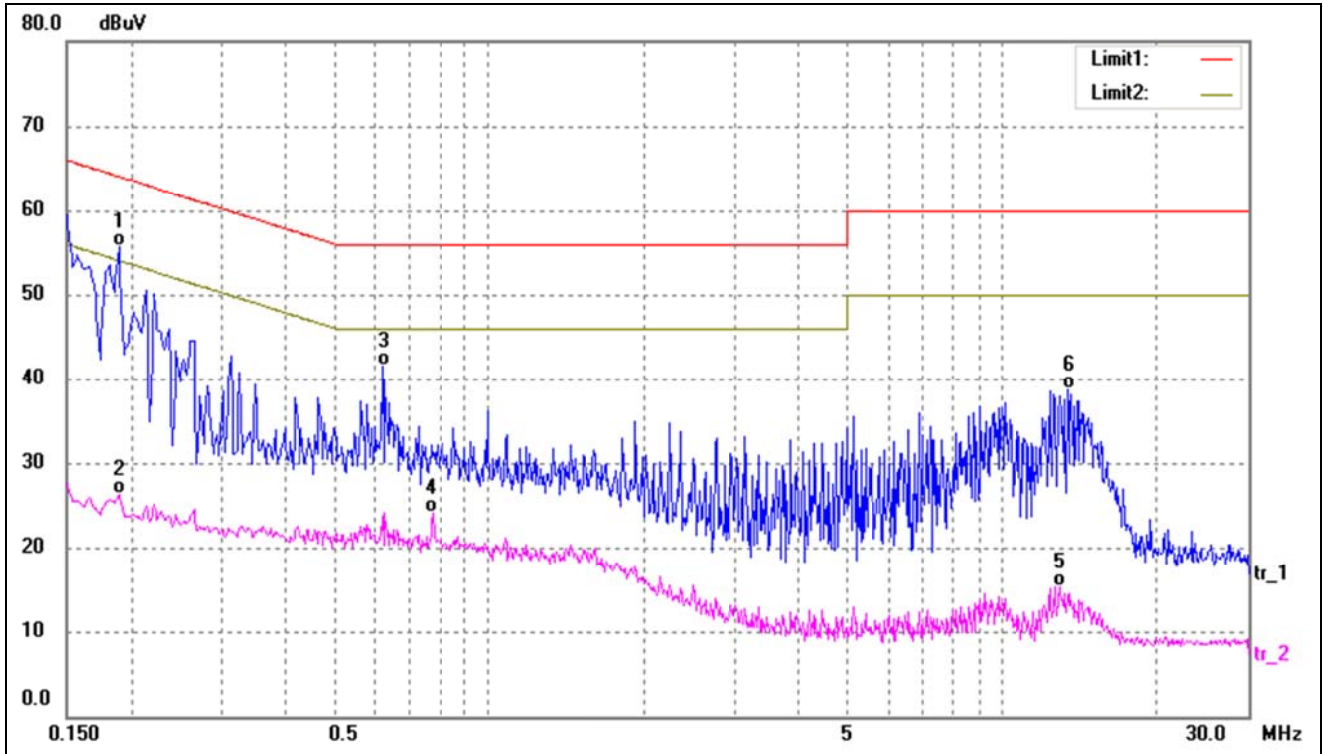
7.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency 150 kHz
 Stop Frequency 30 MHz
 Sweep Speed Auto
 IF Bandwidth..... 10 kHz
 Quasi-Peak Adapter Bandwidth 9 kHz
 Quasi-Peak Adapter Mode Normal

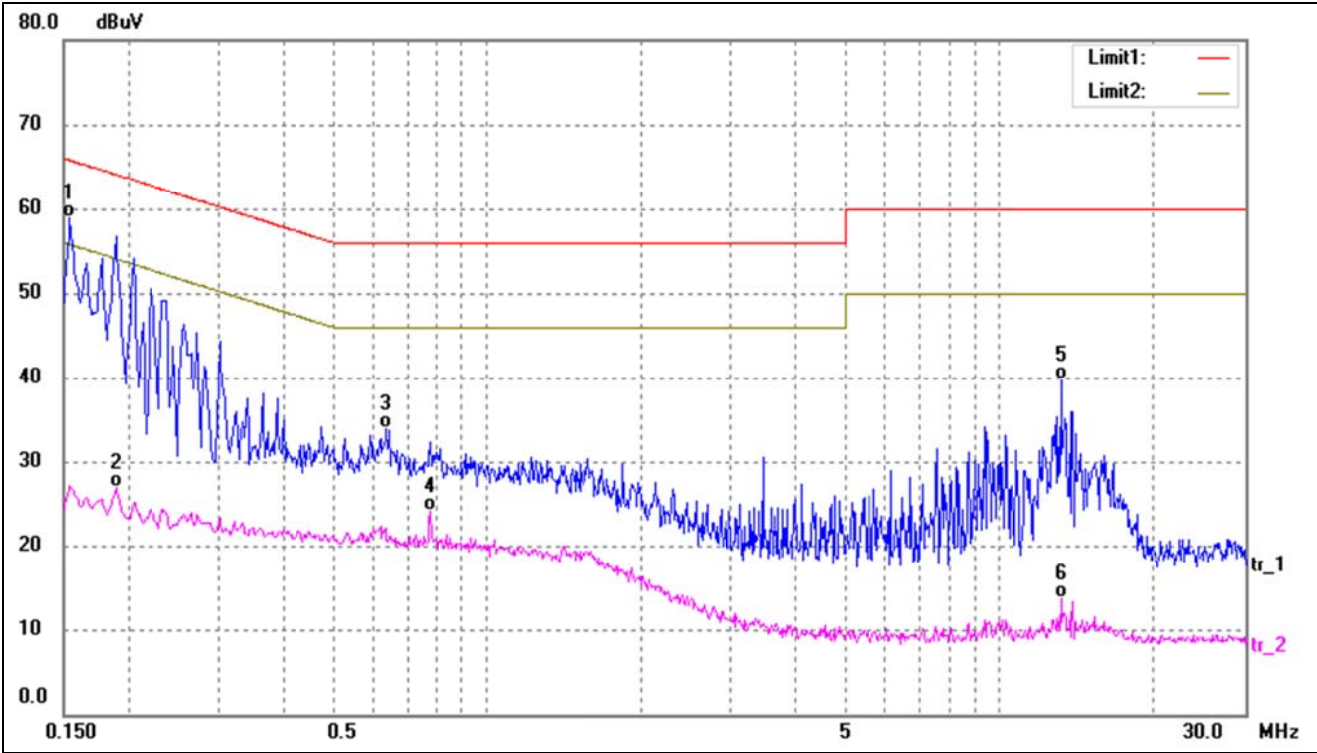
7.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1900	45.57	10.12	55.69	64.03	-8.34	QP
2	0.1900	16.15	10.12	26.27	54.03	-27.76	AVG
3	0.6180	31.17	10.35	41.52	56.00	-14.48	QP
4	0.7780	13.65	10.42	24.07	46.00	-21.93	AVG
5	12.9140	4.38	11.00	15.38	50.00	-34.62	AVG
6	13.3820	27.63	11.00	38.63	60.00	-21.37	QP

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1539	48.75	10.10	58.85	65.78	-6.93	QP
2	0.1900	16.72	10.12	26.84	54.03	-27.19	AVG
3	0.6380	23.45	10.36	33.81	56.00	-22.19	QP
4	0.7780	13.65	10.42	24.07	46.00	-21.93	AVG
5	13.1300	28.77	11.00	39.77	60.00	-20.23	QP
6	13.1300	2.71	11.00	13.71	50.00	-36.29	AVG

***** END OF REPORT *****