

TEST REPORT

Reference No..... : WTX20X12099900W
FCC ID : 2AYG5-LV750
Applicant : PowerFleet, Inc.
Address..... : 5700 Granite Pkwy, Suite 550, Plano, TX 75024
Product Name : Weight Sensor
Test Model. : LV-750 Weight Sensor
Standards : FCC Part 15.247
Date of Receipt sample : Dec.21, 2020
Date of Test..... : Dec.21, 2020 to Jan.04, 2021
Date of Issue : Jan.04, 2021
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Report version

Version No.	Date of issue	Description
Rev.00	Jan.04, 2021	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: PowerFleet, Inc.
 Address of applicant: 5700 Granite Pkwy, Suite 550, Plano, TX 75024

Manufacturer: PowerFleet, Inc.
 Address of manufacturer: 5700 Granite Pkwy, Suite 550, Plano, TX 75024

General Description of EUT	
Product Name:	Weight Sensor
Trade Name	/
Model No.:	LV-750 Weight Sensor
Adding Model(s):	/
Rated Voltage:	DC 3.6V by Battery
Battery Capacity	52AH
Power Adapter:	/
Software Version:	/
Hardware Version:	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Bluetooth Version:	V5.0 (BLE mode)
Frequency Range:	2402-2480MHz
RF Output Power:	-2.34dBm (Conducted)
Data Rate:	1Mbps, 2Mbps
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	4.0dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the Fcc rules.

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 result 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, KDB 558074 D01 15.247 Meas Guidance v05r02.

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

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) 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, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low	2402MHz
TM2	Middle	2440MHz
TM3	High	2480MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB to VGA Cable	1.45	Unshielded	Without Ferrite
VGA Cable	4.50	Unshielded	Without Ferrite
Sungjin Geotec Cable	3.00	Unshielded	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
Notebook	Lenovo	E445	EB12648265

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2020-04-28	2021-04-27
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2020-04-28	2021-04-27
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2020-04-28	2021-04-27
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2020-04-28	2021-04-27
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2020-04-28	2021-04-27
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
SEMT-1042	Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2019-05-05	2021-05-04
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2020-04-28	2021-04-27
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2020-04-28	2021-04-27
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2020-04-28	2021-04-27
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2020-04-28	2021-04-27
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2020-04-28	2021-04-27
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2020-04-28	2021-04-27
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2019-05-05	2021-05-04
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2020-04-28	2021-04-27
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2020-04-28	2021-04-27
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2020-04-28	2021-04-27
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2020-03-17	2021-03-16
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2020-03-17	2021-03-16
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2020-03-17	2021-03-16
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2020-03-17	2021-03-16
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2020-03-17	2021-03-16
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2020-03-17	2021-03-16

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable

3. Antenna Requirement

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 Evaluation Information

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

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(a)(1)(iii), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.2, the test method of power spectral density as below:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.4 Summary of Test Results/Plots

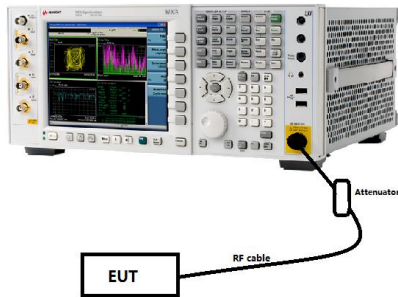
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.1.1 and ANSI C63.10-2013 Subclause 11.9.1.1, this procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- Set the RBW \geq DTS bandwidth.
- Set VBW $\geq 3 \times$ RBW.
- Set span $\geq 3 \times$ RBW
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

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.

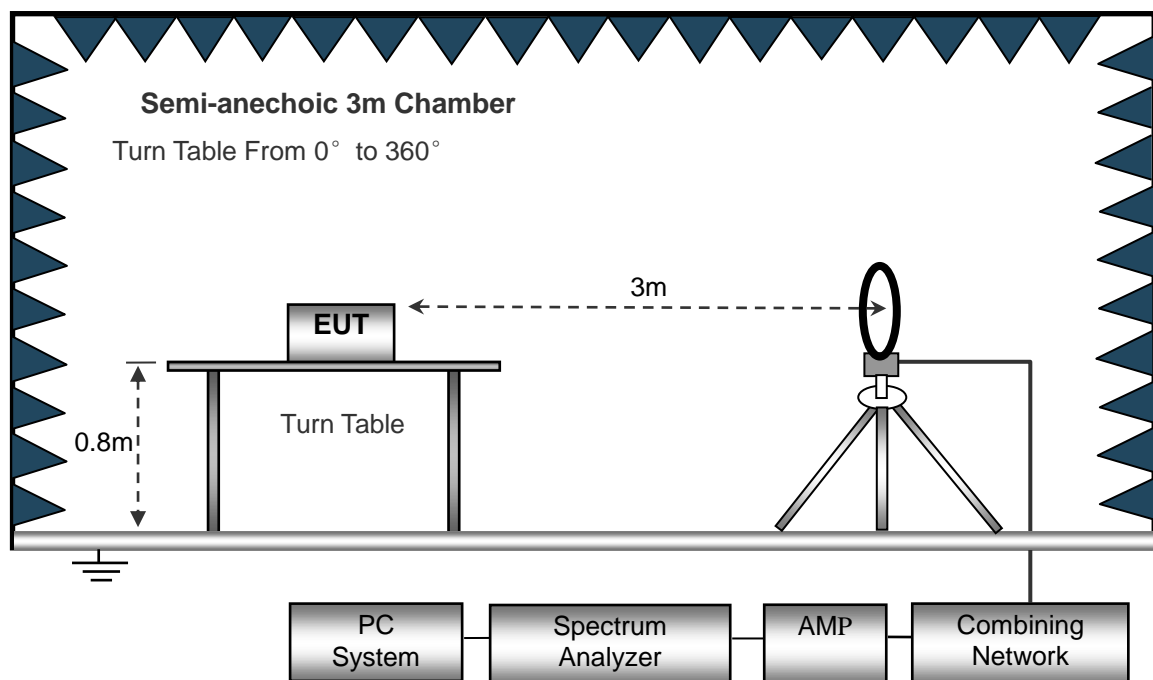
7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

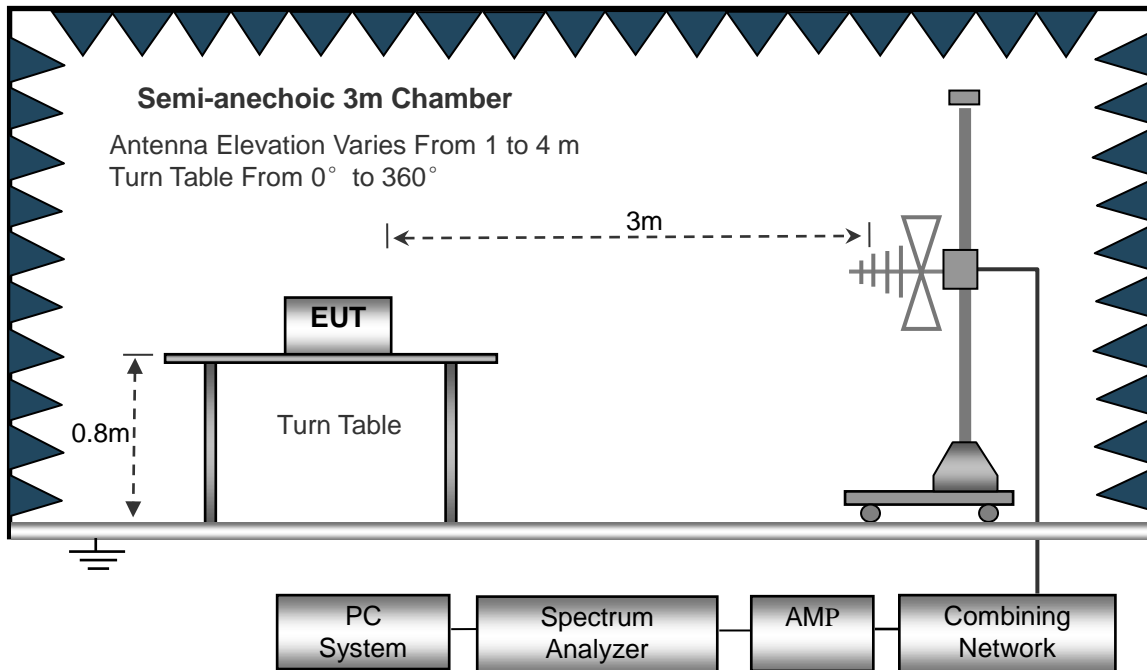
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

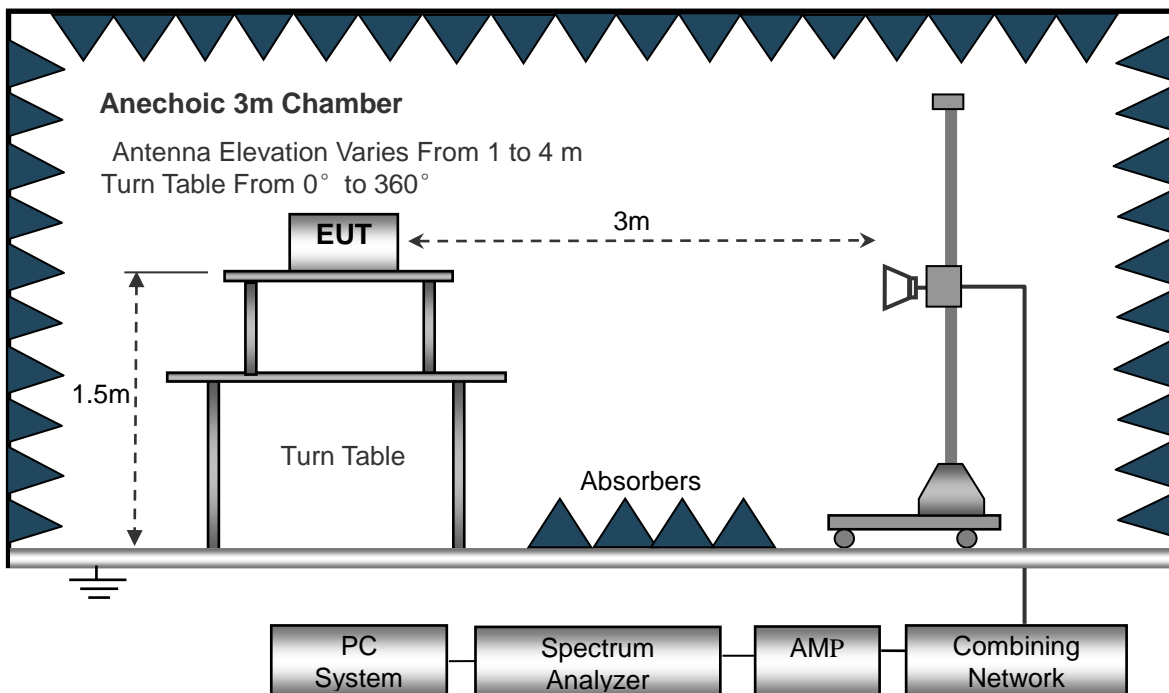
The test setup for emission measurement below 30MHz..



The test setup for emission measurement from 30 MHz to 1 GHz..



The test setup for emission measurement above 1 GHz..



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

7.3 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:

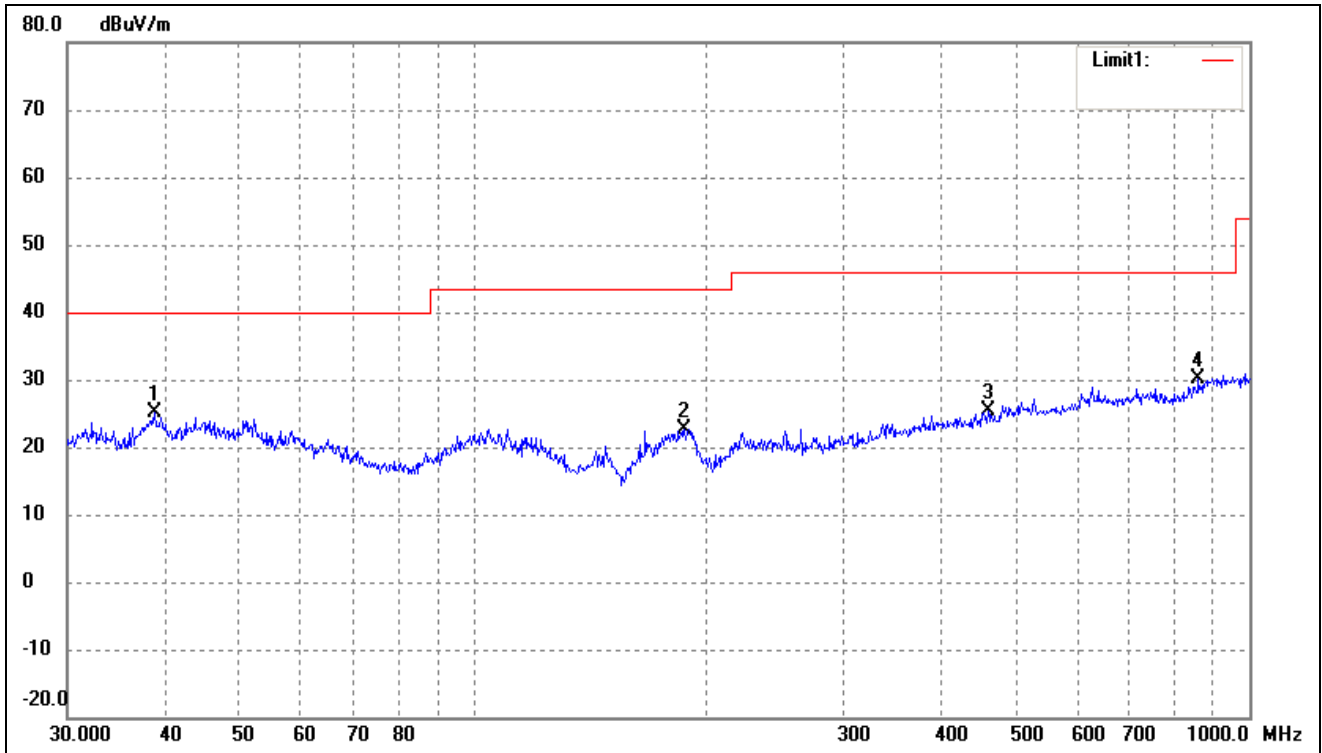
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

7.4 Summary of Test Results/Plots

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

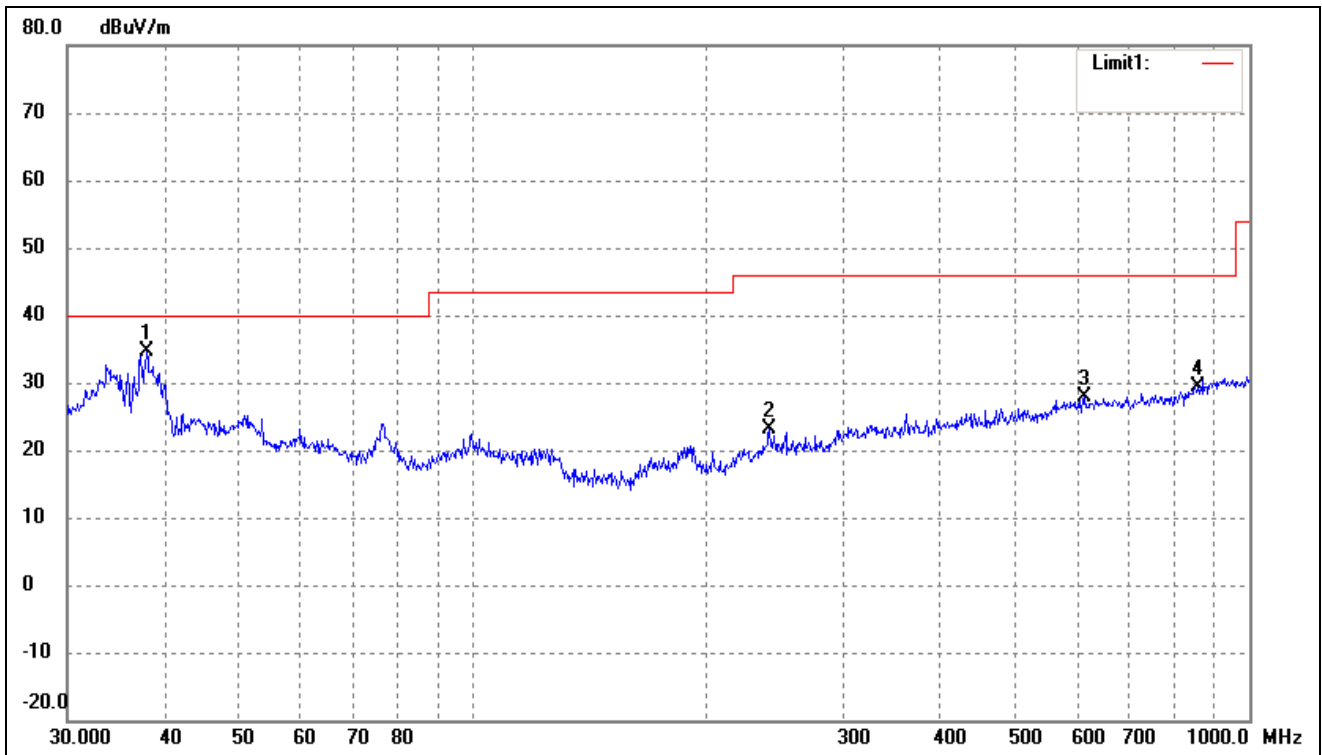
- Spurious Emissions Below 1GHz
- 1M

Test Channel	Low	Polarity:	Horizontal
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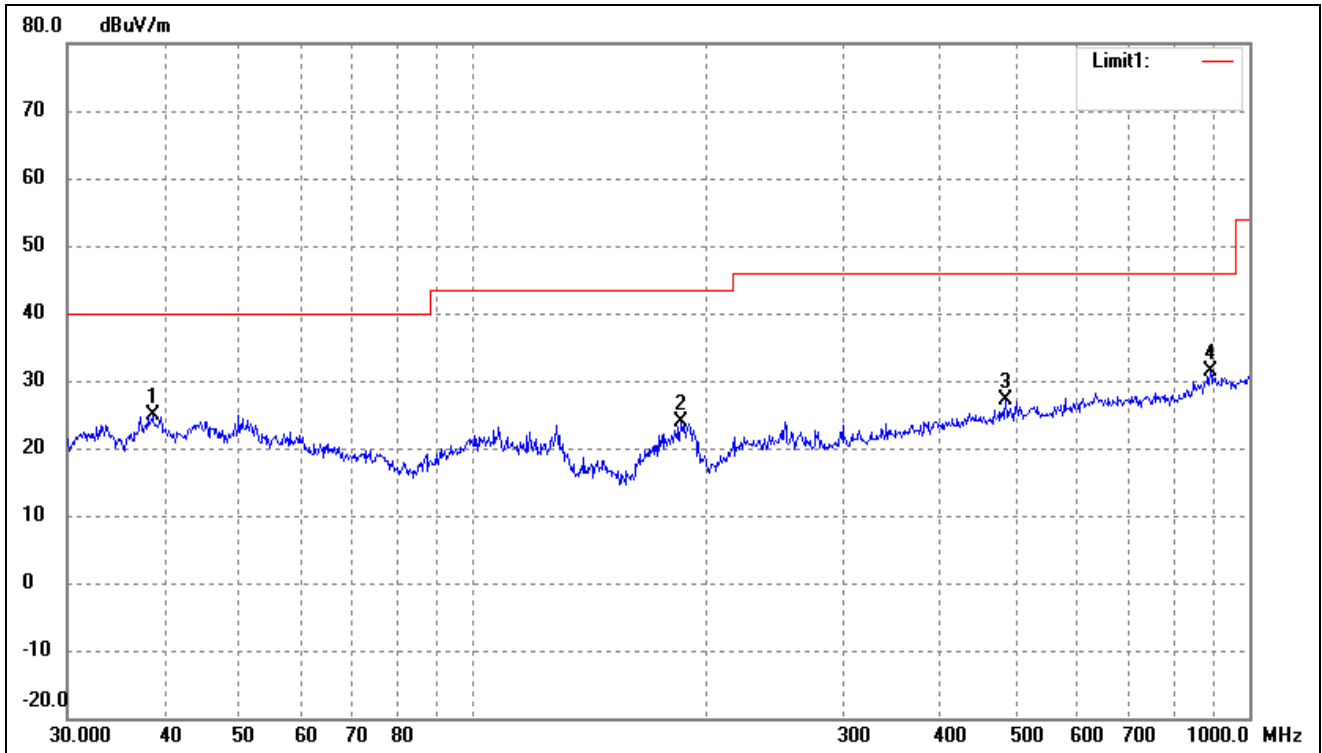
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.8878	37.42	-12.40	25.02	40.00	-14.98	-	-	peak
2	187.0958	36.12	-13.46	22.66	43.50	-20.84	-	-	peak
3	460.7271	30.76	-5.27	25.49	46.00	-20.51	-	-	peak
4	860.0352	29.64	0.41	30.05	46.00	-15.95	-	-	peak

Test Channel	Low	Polarity:	Vertical
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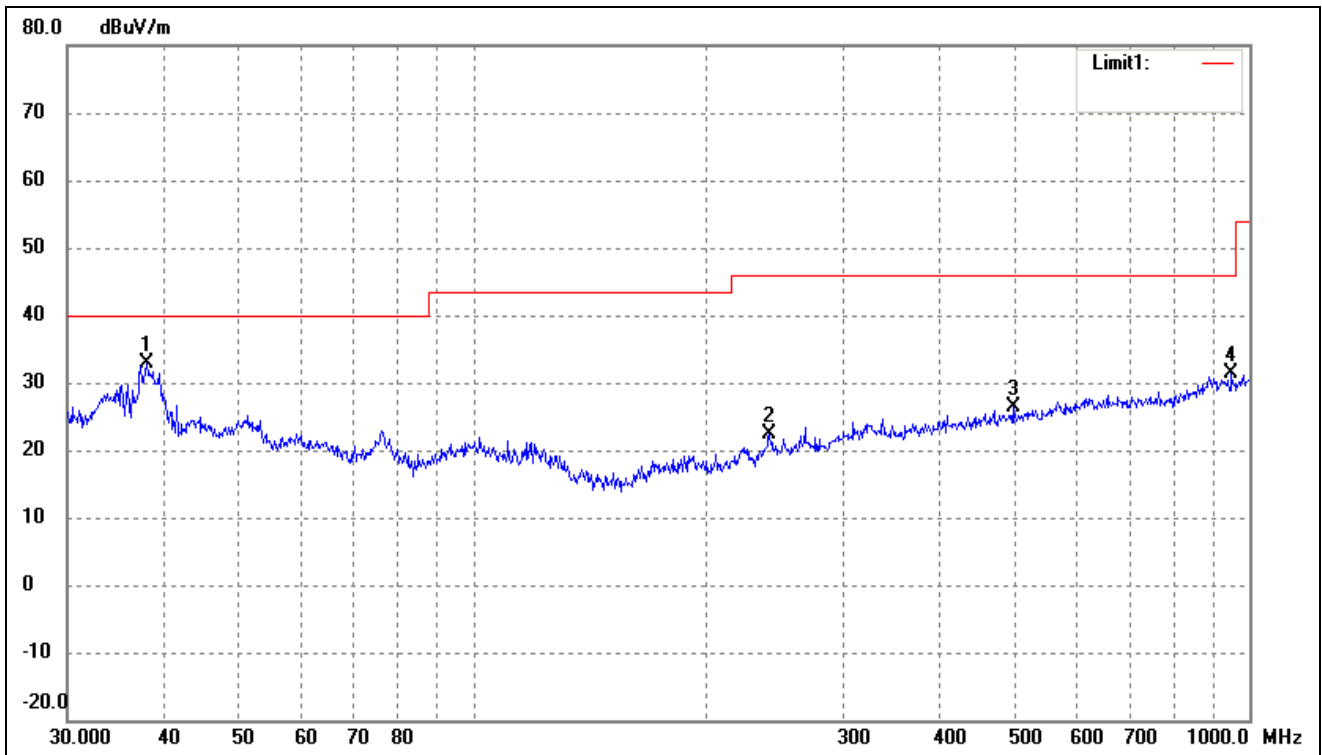
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.9450	47.43	-12.76	34.67	40.00	-5.33	-	-	peak
2	240.8304	34.46	-11.37	23.09	46.00	-22.91	-	-	peak
3	614.2142	29.93	-2.05	27.88	46.00	-18.12	-	-	peak
4	857.0247	29.09	0.38	29.47	46.00	-16.53	-	-	peak

Test Channel	Middle	Polarity:	Horizontal
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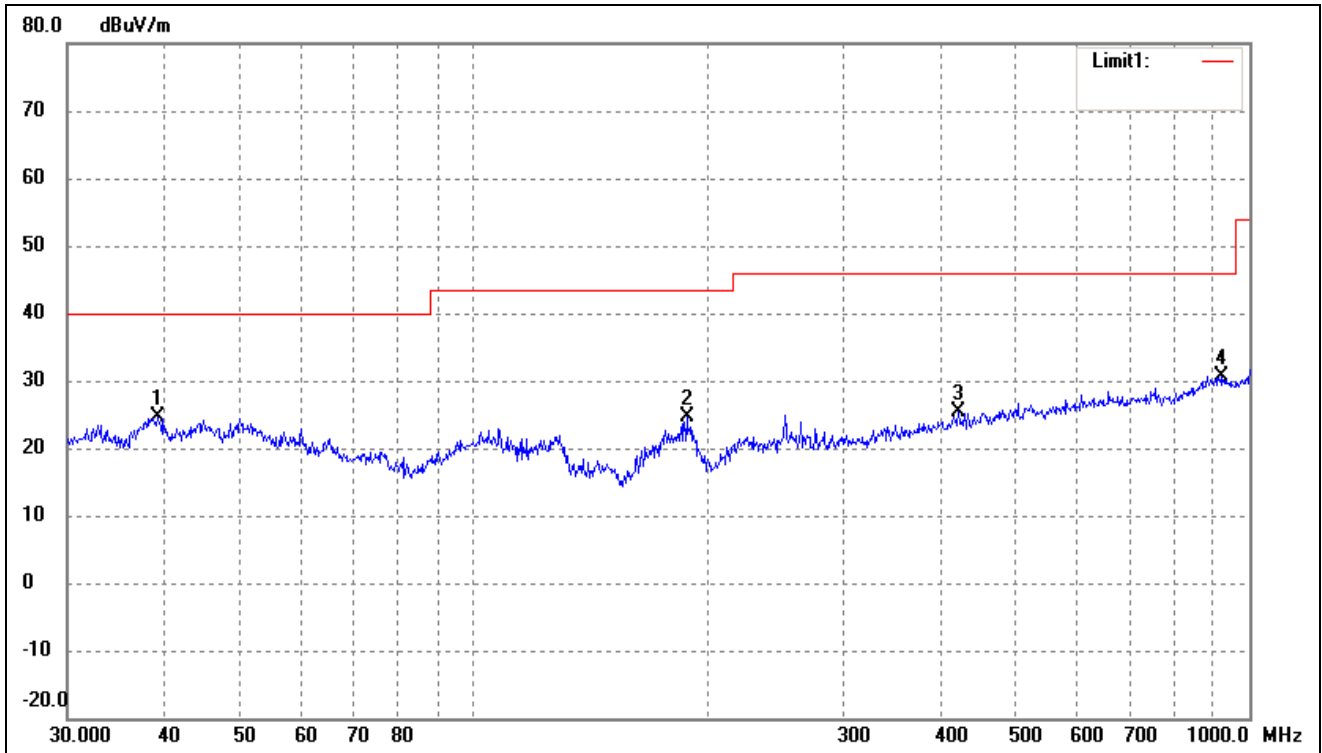
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.6160	37.35	-12.51	24.84	40.00	-15.16	-	-	peak
2	185.1379	37.65	-13.69	23.96	43.50	-19.54	-	-	peak
3	485.6093	31.55	-4.49	27.06	46.00	-18.94	-	-	peak
4	890.7278	30.09	1.18	31.27	46.00	-14.73	-	-	peak

Test Channel	Middle	Polarity:	Vertical
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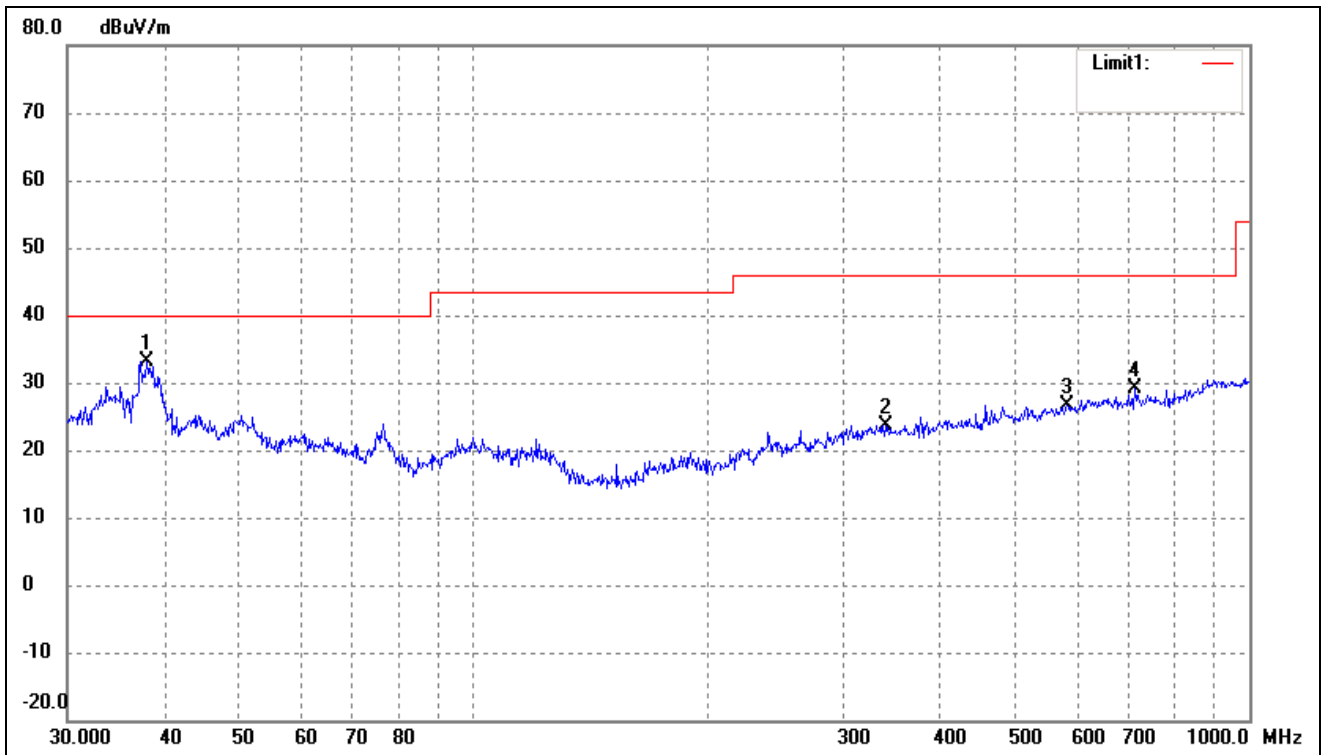
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.9450	45.67	-12.76	32.91	40.00	-7.09	-	-	peak
2	240.8304	33.85	-11.37	22.48	46.00	-23.52	-	-	peak
3	495.9344	30.65	-4.17	26.48	46.00	-19.52	-	-	peak
4	948.7610	30.03	1.39	31.42	46.00	-14.58	-	-	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	39.1616	36.96	-12.30	24.66	40.00	-15.34	-	-	peak
2	188.4125	38.04	-13.30	24.74	43.50	-18.76	-	-	peak
3	422.0577	31.45	-5.96	25.49	46.00	-20.51	-	-	peak
4	919.2866	28.96	1.78	30.74	46.00	-15.26	-	-	peak

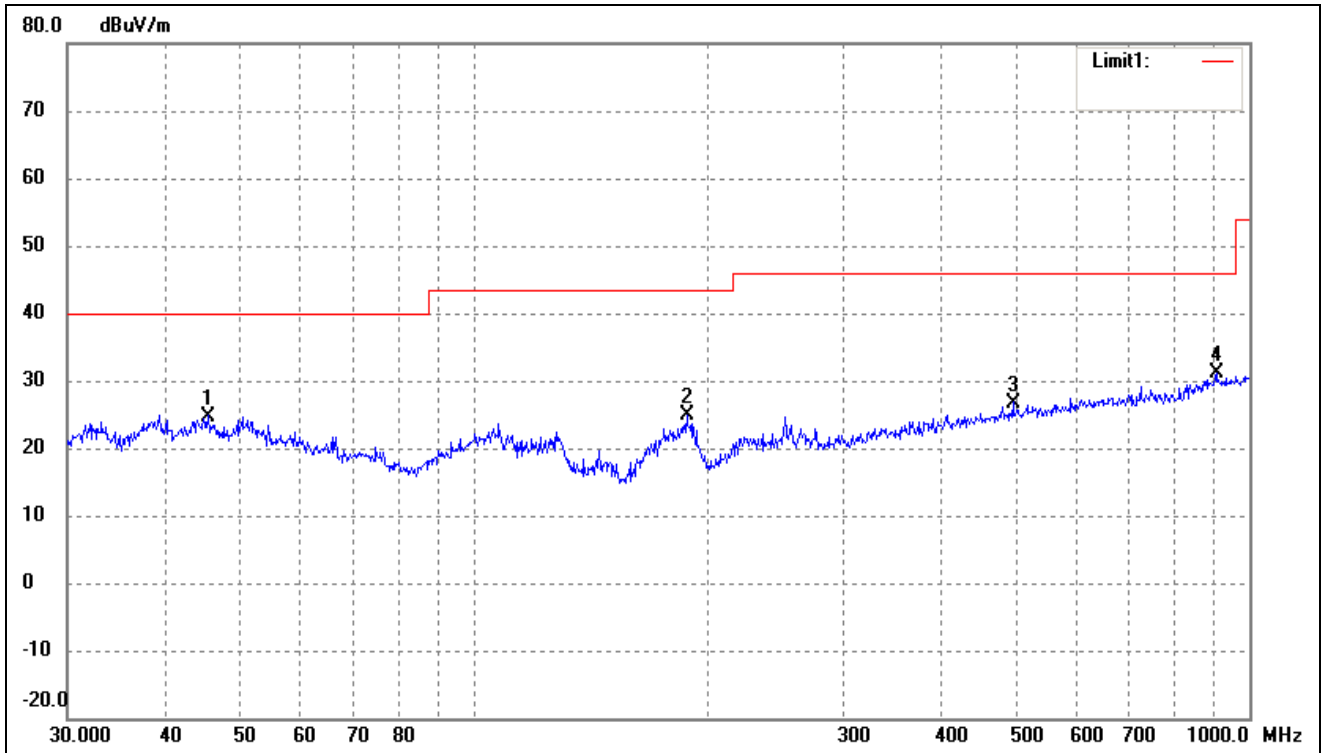
Test Channel	High	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.9450	45.90	-12.76	33.14	40.00	-6.86	-	-	peak
2	339.5888	31.80	-8.06	23.74	46.00	-22.26	-	-	peak
3	582.7425	29.07	-2.36	26.71	46.00	-19.29	-	-	peak
4	711.6734	30.58	-1.45	29.13	46.00	-16.87	-	-	peak

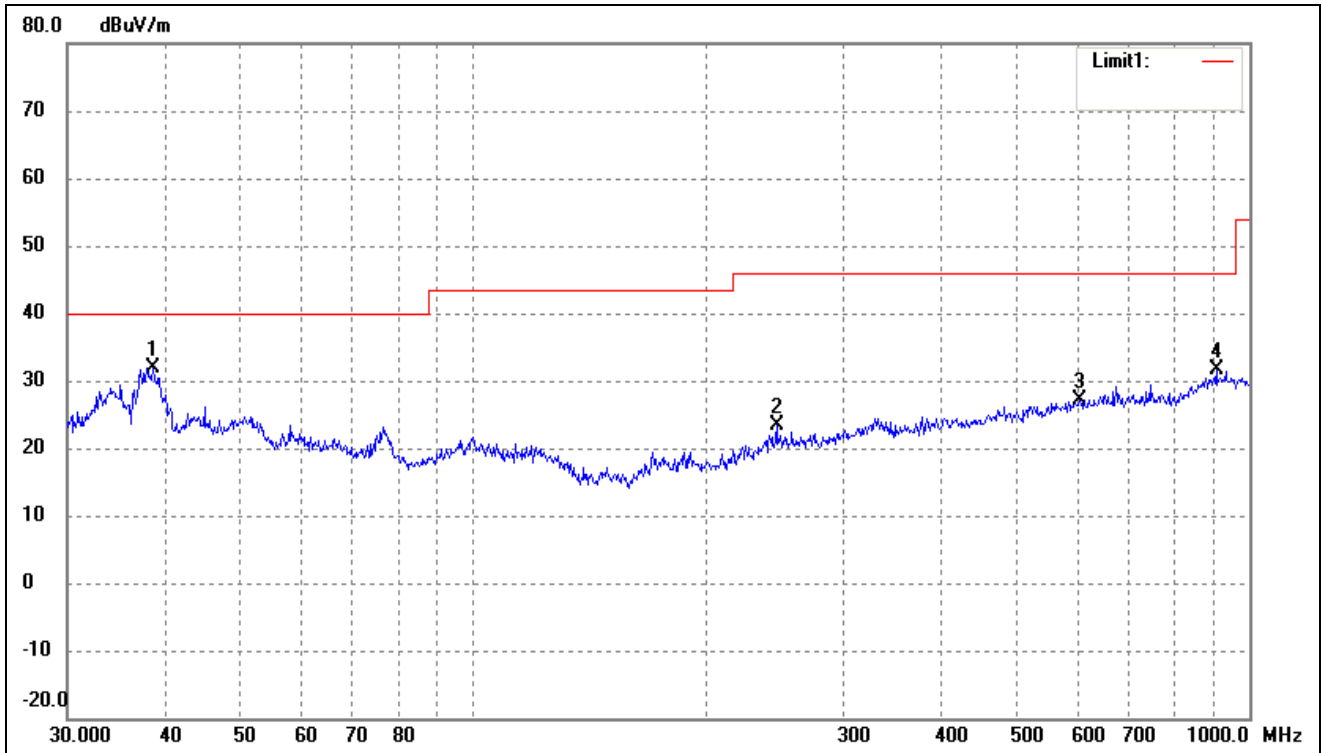
➤ 2M

Test Channel	Low	Polarity:	Horizontal
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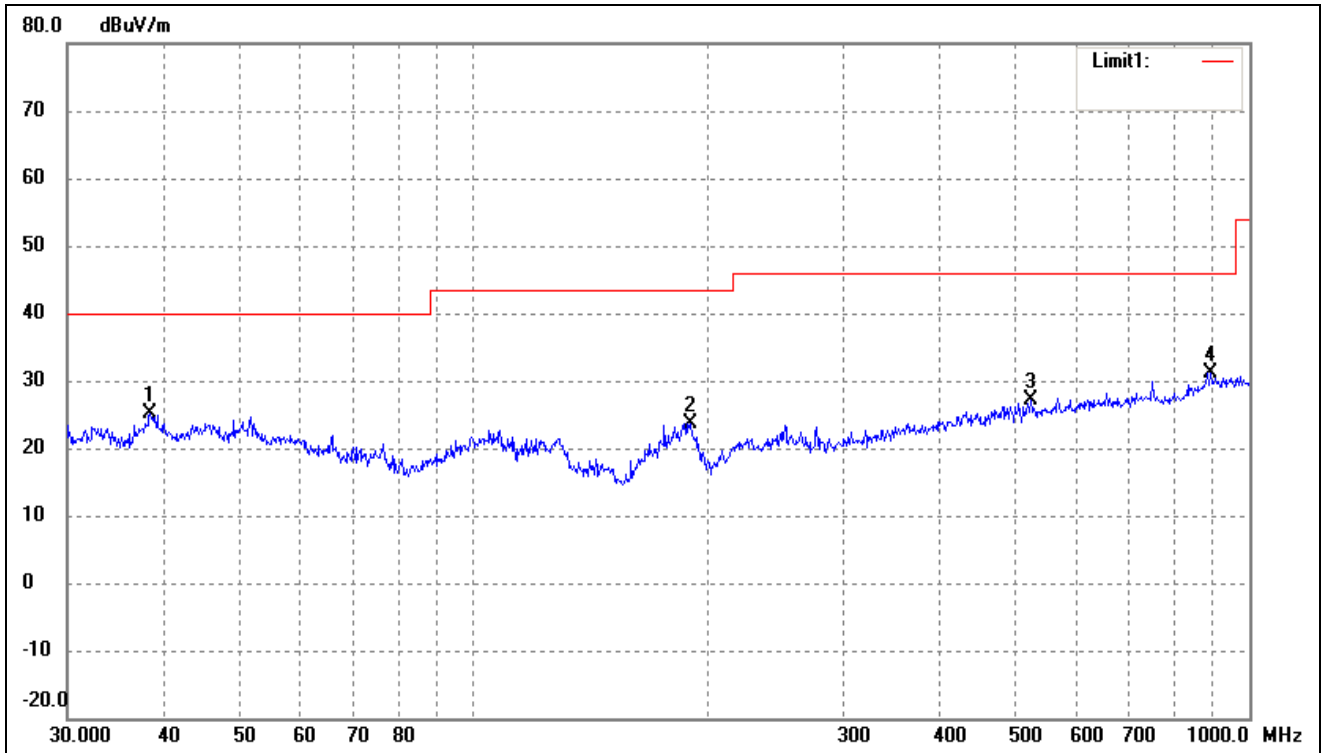
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.5348	36.52	-11.77	24.75	40.00	-15.25	-	-	peak
2	188.4125	38.23	-13.30	24.93	43.50	-18.57	-	-	peak
3	495.9344	30.92	-4.17	26.75	46.00	-19.25	-	-	peak
4	906.4824	29.47	1.62	31.09	46.00	-14.91	-	-	peak

Test Channel	Low	Polarity:	Vertical
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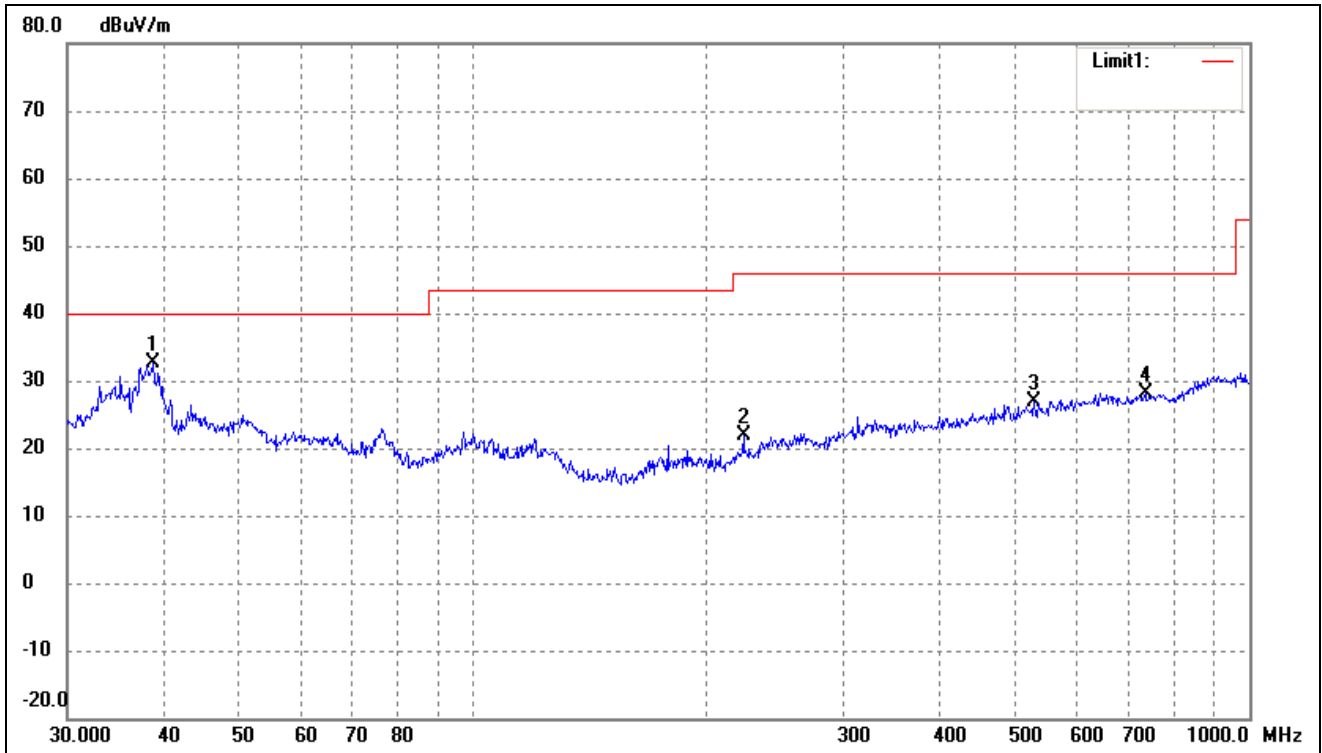
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.6160	44.44	-12.51	31.93	40.00	-8.07	-	-	peak
2	245.9509	34.51	-11.13	23.38	46.00	-22.62	-	-	peak
3	603.5392	29.18	-1.97	27.21	46.00	-18.79	-	-	peak
4	906.4824	29.99	1.62	31.61	46.00	-14.39	-	-	peak

Test Channel	Middle	Polarity:	Horizontal
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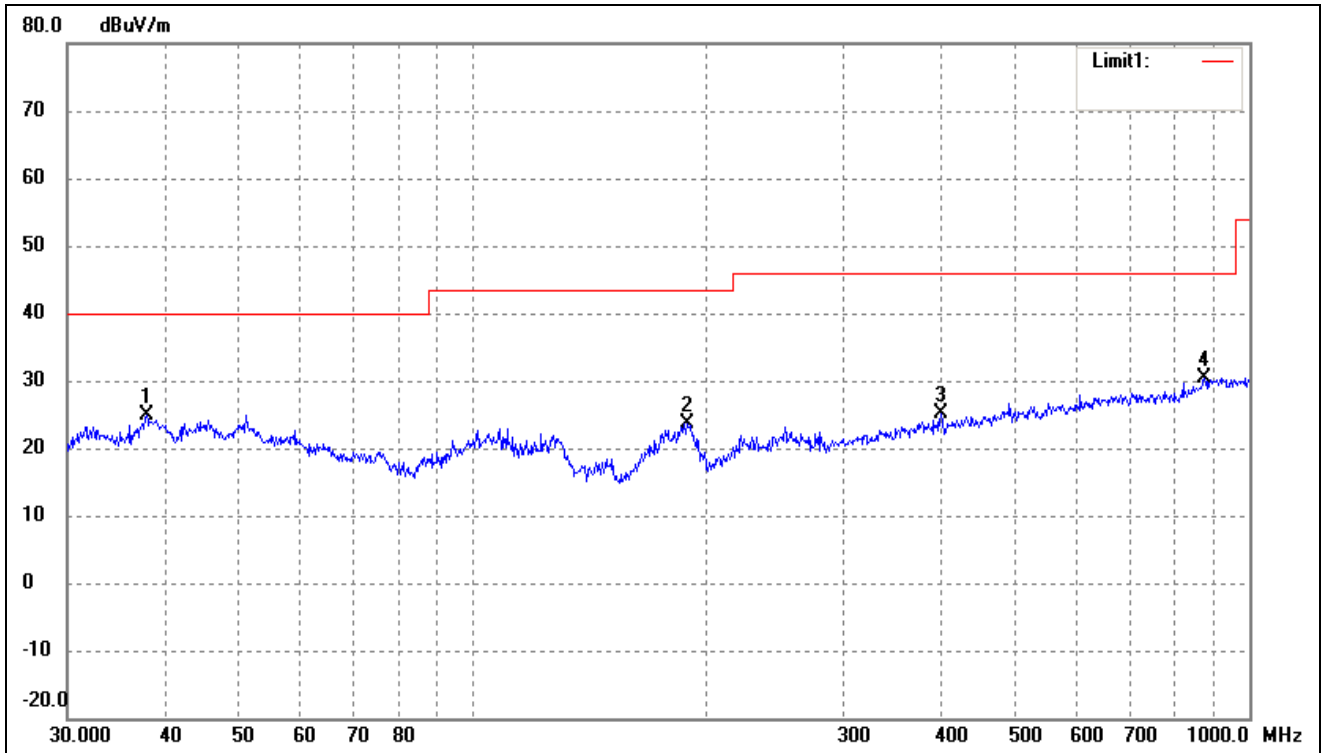
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.3462	37.83	-12.61	25.22	40.00	-14.78	-	-	peak
2	190.4050	36.77	-13.09	23.68	43.50	-19.82	-	-	peak
3	522.7180	31.20	-4.16	27.04	46.00	-18.96	-	-	peak
4	890.7278	30.04	1.18	31.22	46.00	-14.78	-	-	peak

Test Channel	Middle	Polarity:	Vertical
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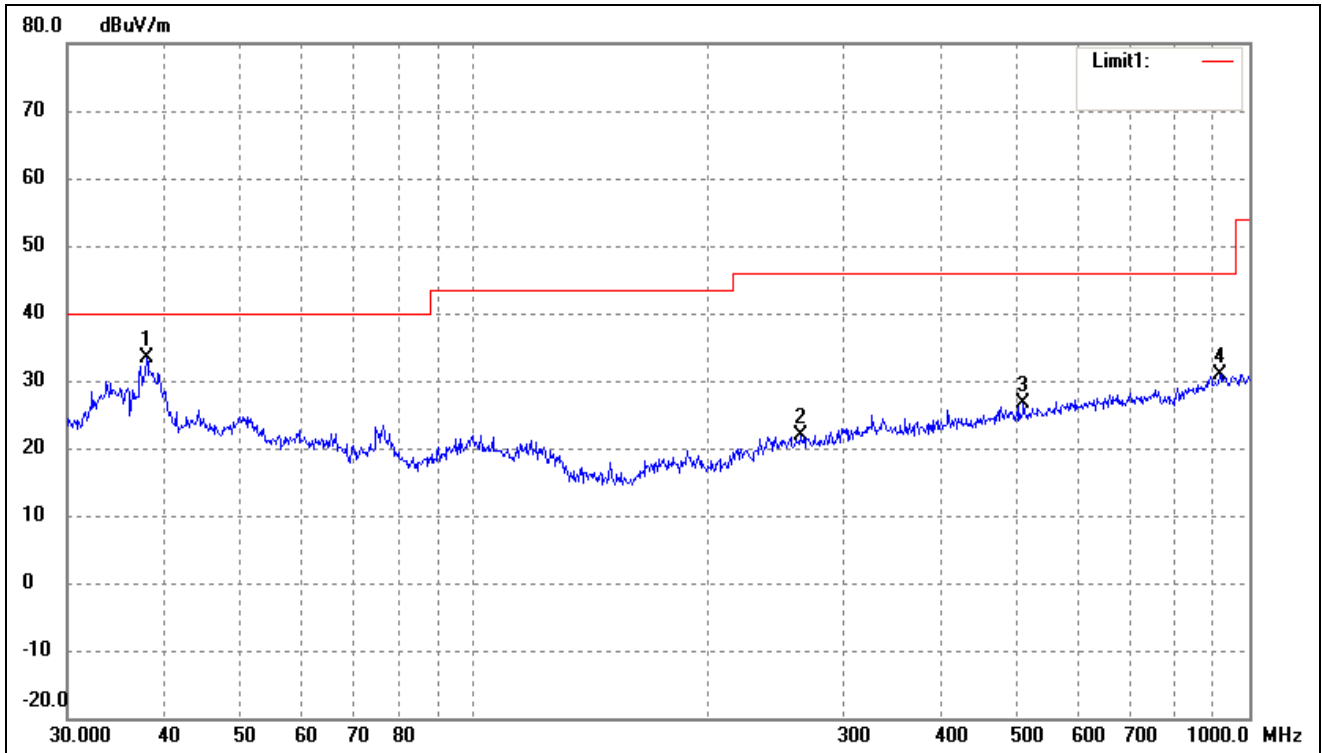
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.7518	45.00	-12.45	32.55	40.00	-7.45	-	-	peak
2	222.9502	34.13	-12.16	21.97	46.00	-24.03	-	-	peak
3	528.2458	31.07	-4.13	26.94	46.00	-19.06	-	-	peak
4	734.4913	29.34	-1.10	28.24	46.00	-17.76	-	-	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	37.9450	37.73	-12.76	24.97	40.00	-15.03	-	-	peak
2	188.4125	36.93	-13.30	23.63	43.50	-19.87	-	-	peak
3	400.4319	31.53	-6.45	25.08	46.00	-20.92	-	-	peak
4	875.2470	29.81	0.55	30.36	46.00	-15.64	-	-	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	37.9450	46.21	-12.76	33.45	40.00	-6.55	-	-	peak
2	263.8190	32.61	-10.83	21.78	46.00	-24.22	-	-	peak
3	511.8352	30.74	-4.11	26.63	46.00	-19.37	-	-	peak
4	916.0687	29.20	1.75	30.95	46.00	-15.05	-	-	peak

Remark: '- 'Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

➤ Spurious Emissions Above 1GHz

1M

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2402MHz							
4804.000	51.18	-4.52	46.66	74.00	-27.34	H	PK
7206.000	51.30	-2.20	49.10	74.00	-24.90	H	PK
4804.000	50.91	-4.52	46.39	74.00	-27.61	V	PK
7206.000	50.14	-2.20	47.94	74.00	-26.06	V	PK
Middle Channel-2440MHz							
4880.000	52.26	-4.47	47.79	74.00	-26.21	H	PK
7320.000	50.32	-2.17	48.15	74.00	-25.85	H	PK
4880.000	51.28	-4.47	46.81	74.00	-27.19	V	PK
7320.000	48.36	-2.17	46.19	74.00	-27.81	V	PK
High Channel-2480MHz							
4960.000	50.65	-4.41	46.24	74.00	-27.76	H	PK
7440.000	50.47	-2.14	48.33	74.00	-25.67	H	PK
4960.000	50.69	-4.41	46.28	74.00	-27.72	V	PK
7440.000	49.45	-2.14	47.31	74.00	-26.69	V	PK

2M

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2402MHz							
4804.000	51.40	-4.52	46.88	74.00	-27.12	H	PK
7206.000	51.08	-2.20	48.88	74.00	-25.12	H	PK
4804.000	51.35	-4.52	46.83	74.00	-27.17	V	PK
7206.000	50.35	-2.20	48.15	74.00	-25.85	V	PK
Middle Channel-2440MHz							
4880.000	50.86	-4.47	46.39	74.00	-27.61	H	PK
7320.000	48.87	-2.17	46.70	74.00	-27.30	H	PK
4880.000	51.59	-4.47	47.12	74.00	-26.88	V	PK
7320.000	49.17	-2.17	47.00	74.00	-27.00	V	PK
High Channel-2480MHz							
4960.000	50.49	-4.41	46.08	74.00	-27.92	H	PK
7440.000	50.41	-2.14	48.27	74.00	-25.73	H	PK
4960.000	50.39	-4.41	45.98	74.00	-28.02	V	PK
7440.000	50.67	-2.14	48.53	74.00	-25.47	V	PK

Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

8.2 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement

KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

RBW as a function of frequency

Frequency	RBW
9kHz to 150kHz	200Hz to 300Hz
0.15MHz to 30MHz	9kHz to 10kHz
30MHz to 1000MHz	100kHz to 120kHz
>1000MHz	1MHz

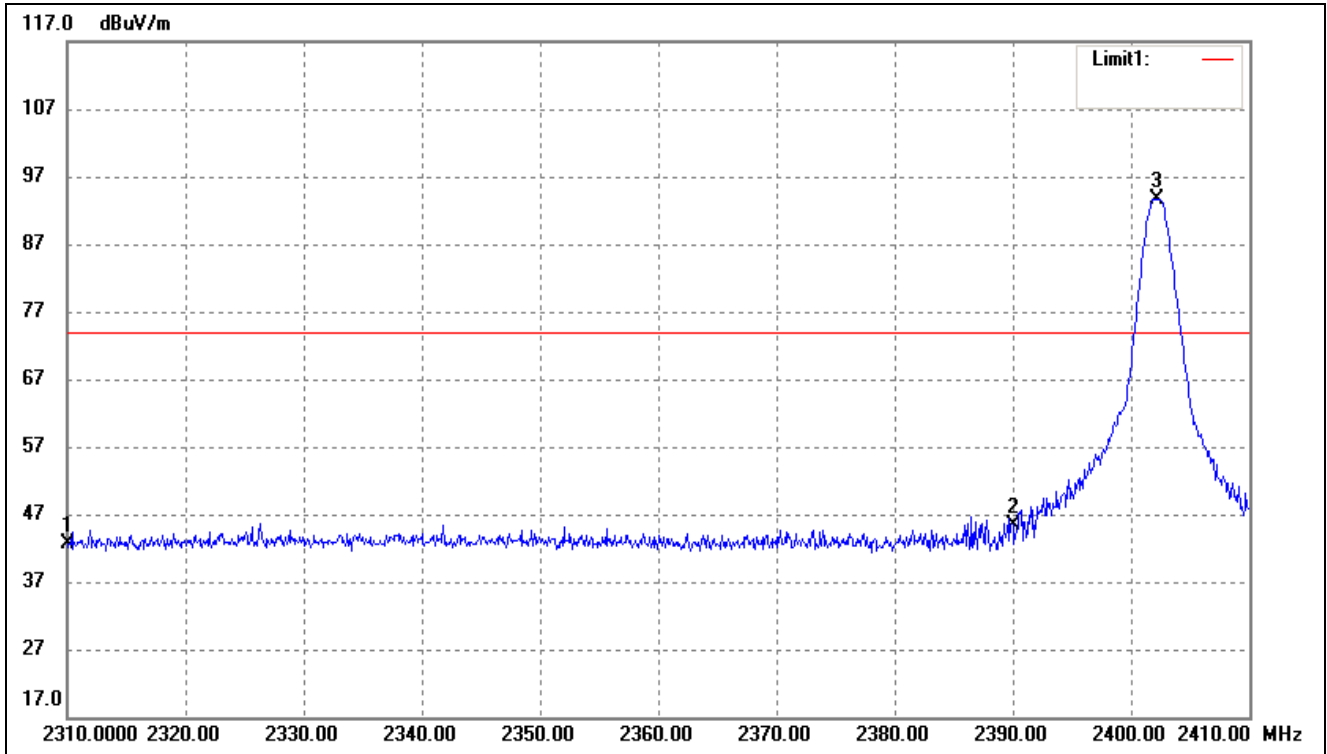
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

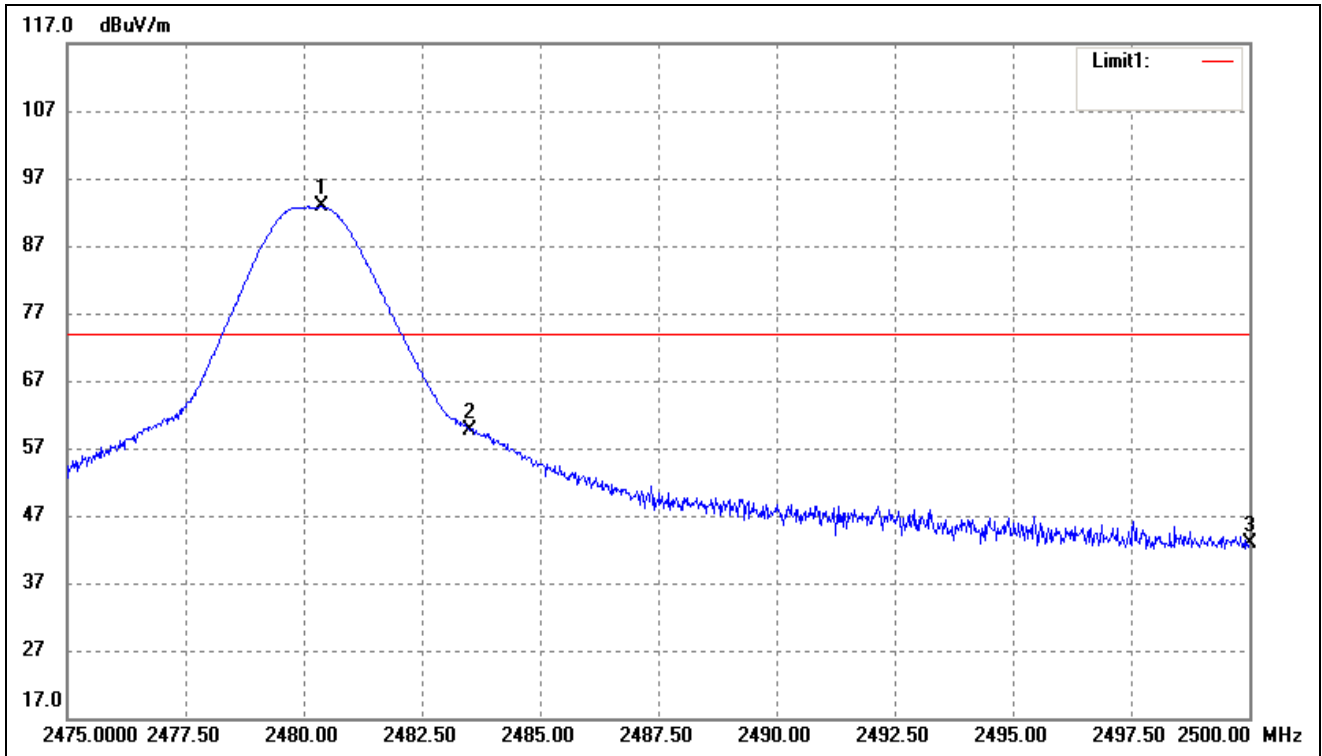
- Radiated test
- 1M

Test Channel	Low	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.70	-9.66	31.04	54.00	-22.96	Average Detector
	2310.000	52.22	-9.66	42.56	74.00	-31.44	Peak Detector
2	2390.000	40.54	-9.50	31.04	54.00	-22.96	Average Detector
	2390.000	54.83	-9.50	45.33	74.00	-28.67	Peak Detector
3	2402.000	51.02	-9.47	41.55	54.00	-12.45	Average Detector
	2402.200	103.16	-9.47	93.69	/	/	Peak Detector

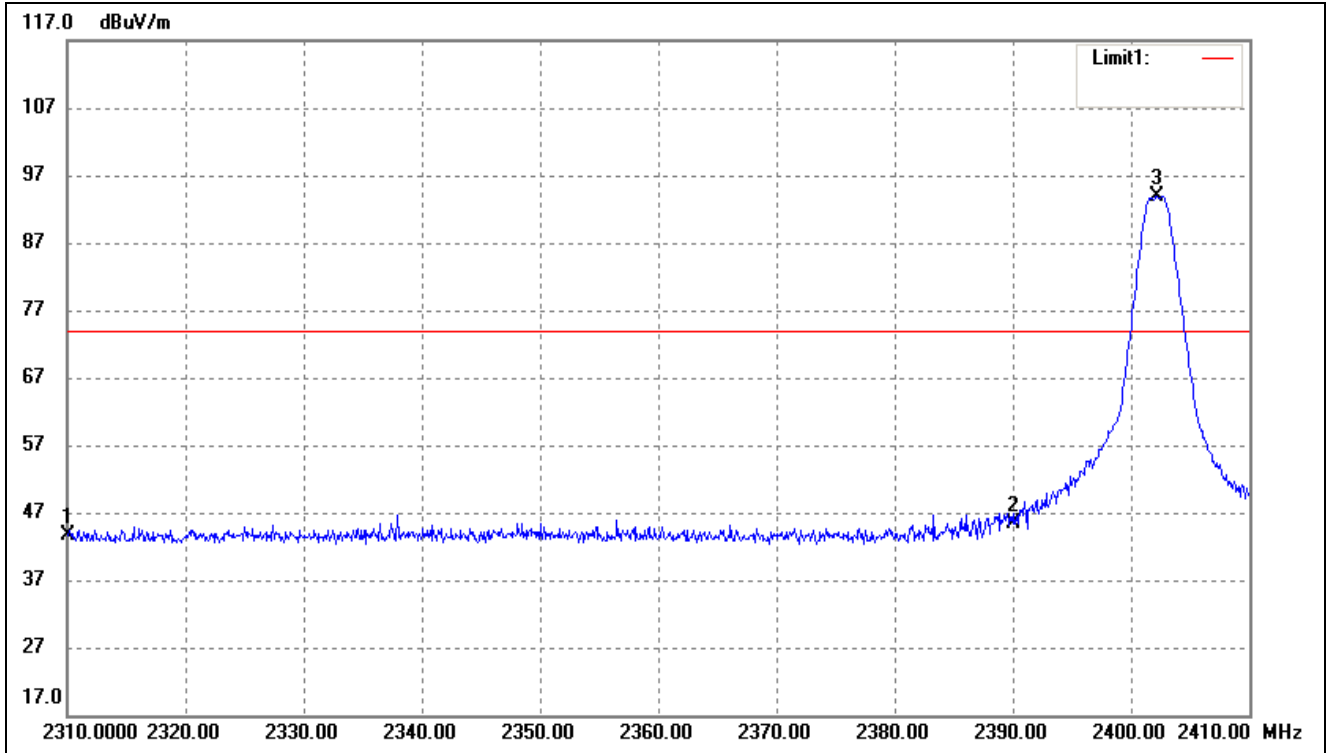
Test Channel	High	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.025	50.46	-9.32	41.14	54.00	-12.86	Average Detector
	2480.375	102.10	-9.32	92.78	/	/	Peak Detector
2	2483.500	43.65	-9.31	34.34	54.00	-19.66	Average Detector
	2483.500	69.06	-9.31	59.75	74.00	-14.25	Peak Detector
3	2500.000	39.85	-9.28	30.57	54.00	-23.43	Average Detector
	2500.000	52.10	-9.28	42.82	74.00	-31.18	Peak Detector

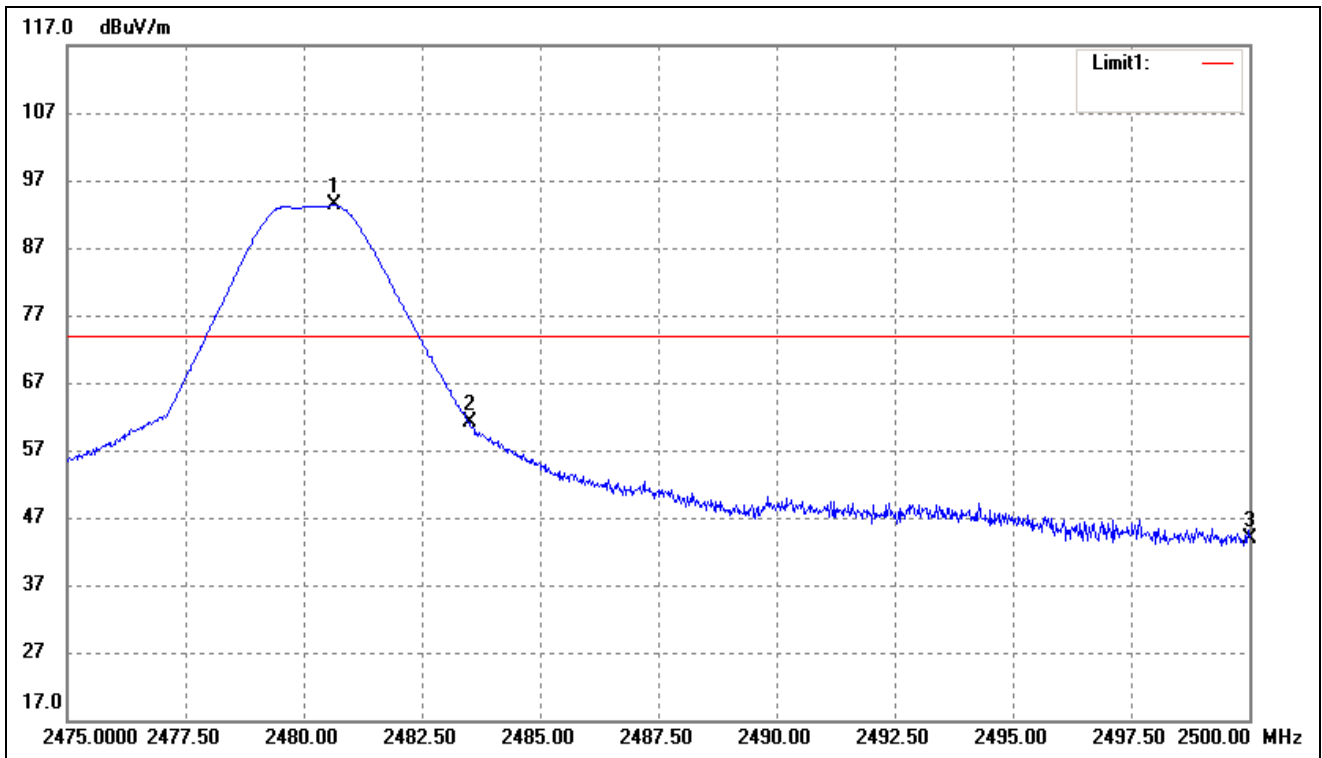
➤ 2M

Test Channel	Low	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.80	-9.66	31.14	54.00	-22.86	Average Detector
	2310.000	53.29	-9.66	43.63	74.00	-30.37	Peak Detector
2	2390.000	40.67	-9.50	31.17	54.00	-22.83	Average Detector
	2390.000	54.87	-9.50	45.37	74.00	-28.63	Peak Detector
3	2402.000	47.12	-9.47	37.65	54.00	-16.35	Average Detector
	2402.200	103.29	-9.47	93.82	/	/	Peak Detector

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	2480.075	46.69	-9.32	37.37	54.00	-16.63	Average Detector
	2480.650	102.59	-9.32	93.27	/	/	Peak Detector
2	2483.500	42.33	-9.31	33.02	54.00	-20.98	Average Detector
	2483.500	70.37	-9.31	61.06	74.00	-12.94	Peak Detector
3	2500.000	39.97	-9.28	30.69	54.00	-23.31	Average Detector
	2500.000	53.11	-9.28	43.83	74.00	-30.17	Peak Detector

➤ Conducted test

Please refer to Appendix D

9. Conducted Emissions

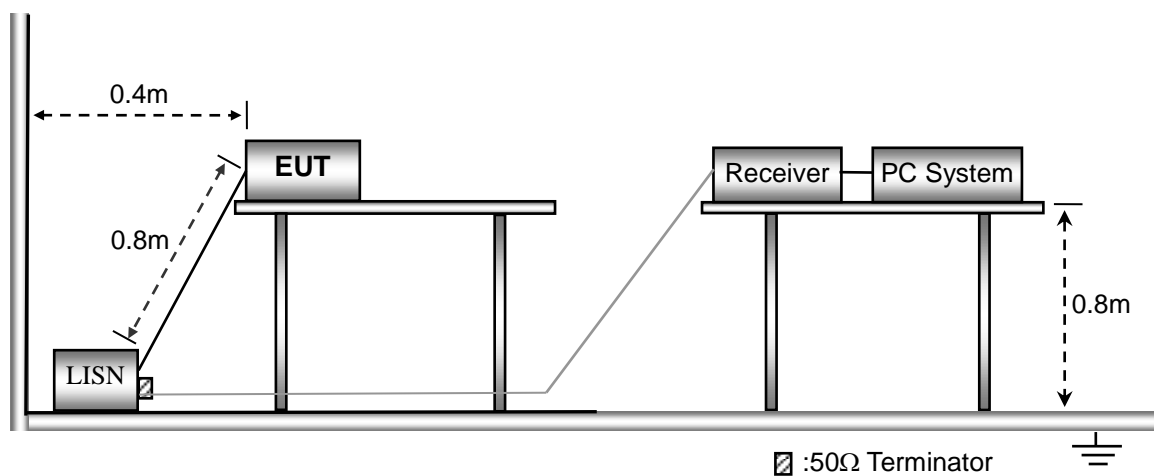
9.1 Test Procedure

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.

9.2 Basic Test Setup Block Diagram



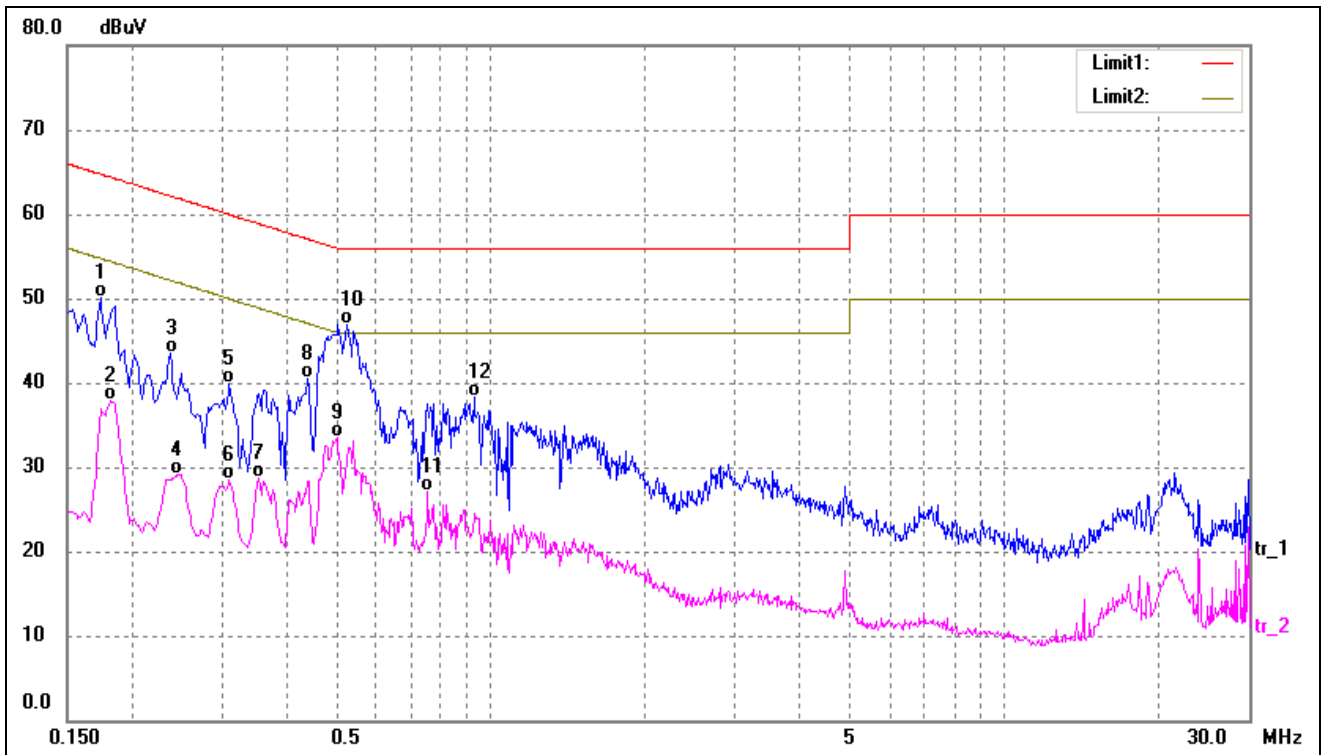
9.3 Test Receiver Setup

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

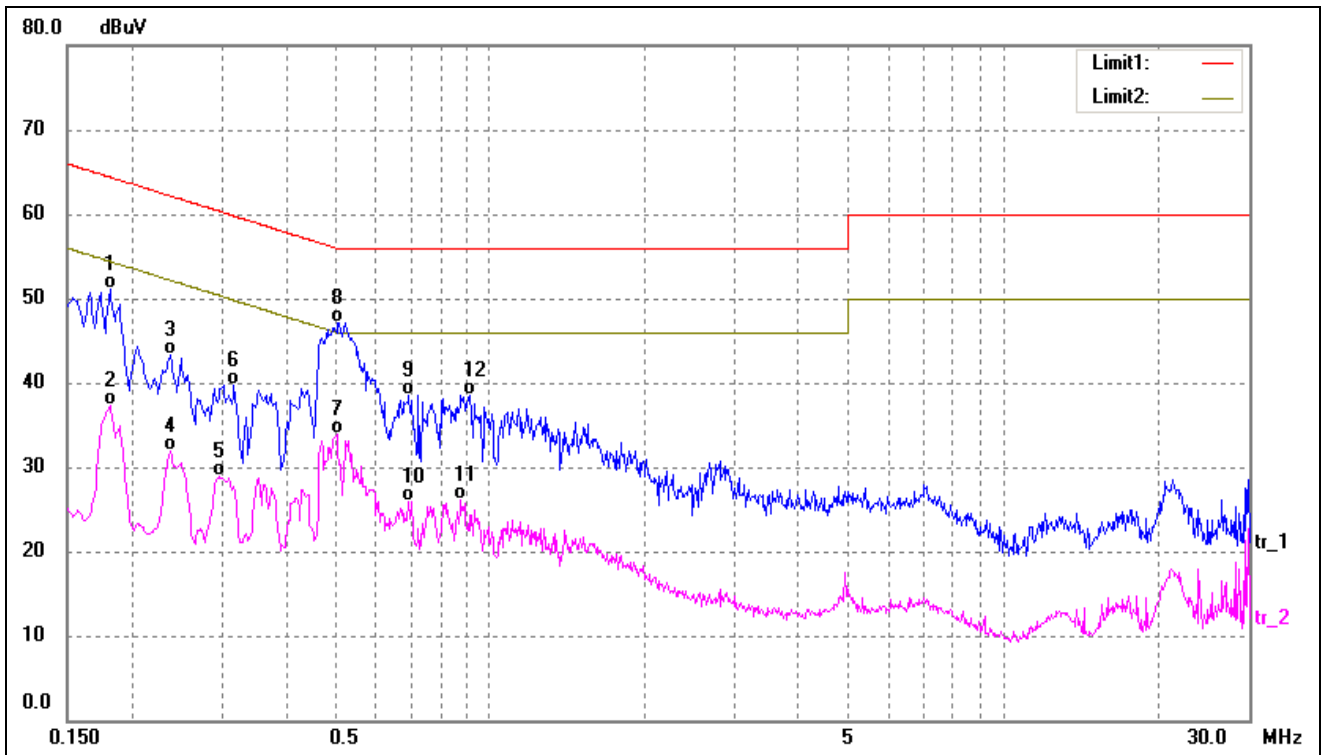
9.4 Summary of Test Results/Plots

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	0.1740	39.89	10.25	50.14	64.76	-14.62	QP
2	0.1819	27.59	10.26	37.85	54.39	-16.54	AVG
3	0.2380	33.22	10.26	43.48	62.16	-18.68	QP
4	0.2460	18.93	10.26	29.19	51.89	-22.70	AVG
5	0.3100	29.58	10.24	39.82	59.97	-20.15	QP
6	0.3100	18.34	10.24	28.58	49.97	-21.39	AVG
7	0.3540	18.47	10.26	28.73	48.87	-20.14	AVG
8	0.4420	30.25	10.22	40.47	57.02	-16.55	QP
9	0.5020	23.27	10.22	33.49	46.00	-12.51	AVG
10*	0.5260	36.77	10.22	46.99	56.00	-9.01	QP
11	0.7580	16.92	10.17	27.09	46.00	-18.91	AVG
12	0.9300	28.04	10.22	38.26	56.00	-17.74	QP

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	0.1819	40.76	10.26	51.02	64.39	-13.37	QP
2	0.1819	27.10	10.26	37.36	54.39	-17.03	AVG
3	0.2380	32.95	10.26	43.21	62.16	-18.95	QP
4	0.2380	21.68	10.26	31.94	52.16	-20.22	AVG
5	0.2980	18.61	10.24	28.85	50.30	-21.45	AVG
6	0.3180	29.46	10.25	39.71	59.76	-20.05	QP
7	0.5020	23.64	10.22	33.86	46.00	-12.14	AVG
8*	0.5060	36.94	10.22	47.16	56.00	-8.84	QP
9	0.6940	28.36	10.17	38.53	56.00	-17.47	QP
10	0.6940	15.82	10.17	25.99	46.00	-20.01	AVG
11	0.8780	15.94	10.22	26.16	46.00	-19.84	AVG
12	0.9100	28.31	10.22	38.53	56.00	-17.47	QP

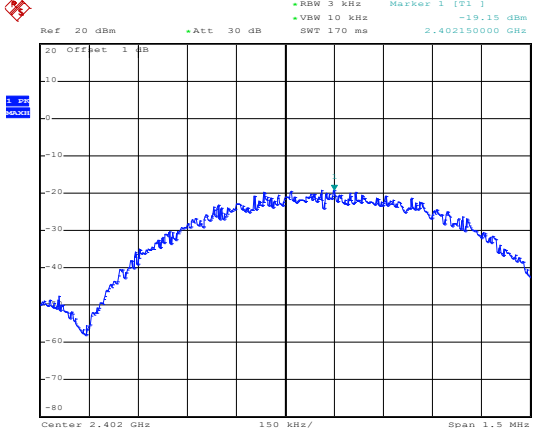
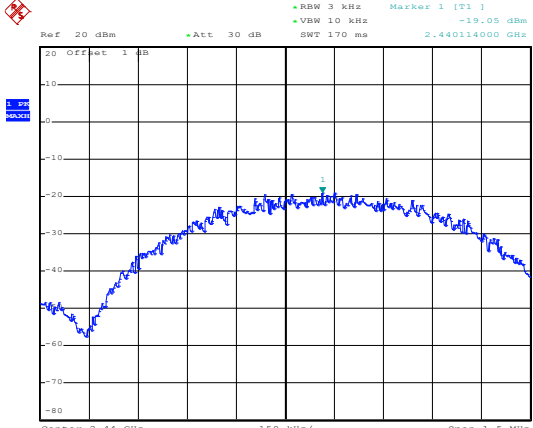
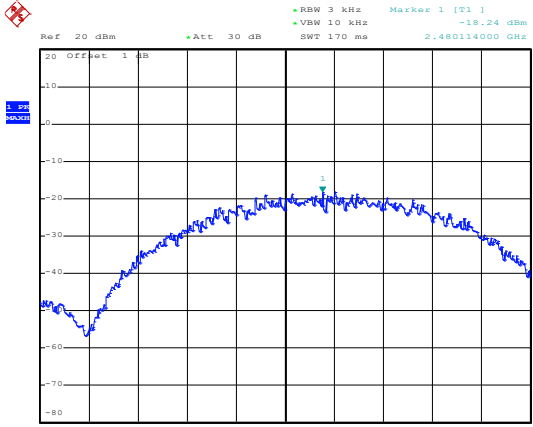
APPENDIX SUMMARY

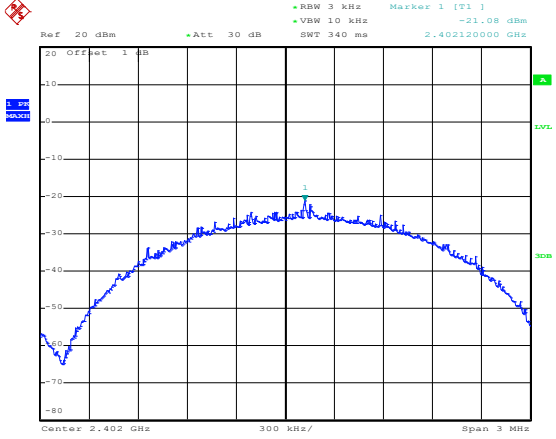
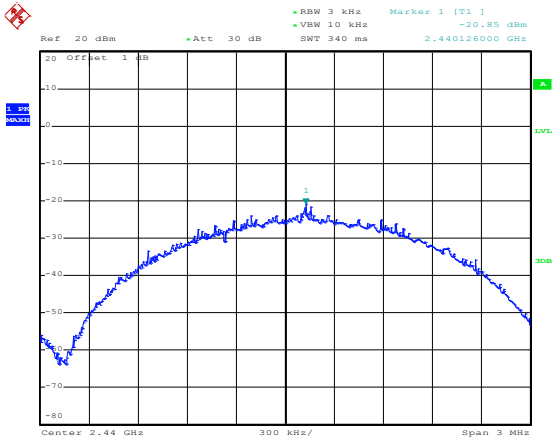
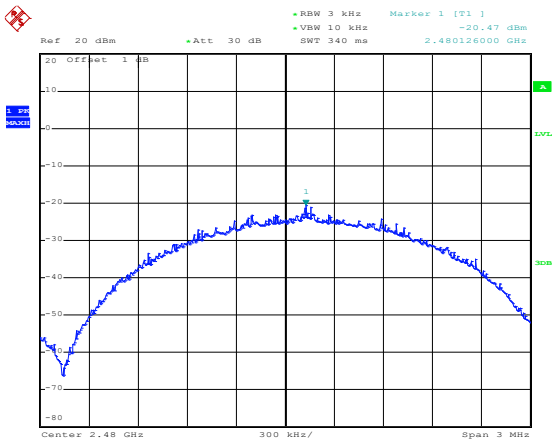
Project No.	WTX20X12099900W	Test Engineer	Moon
Start date	2020/12/30	Finish date	2020/12/30
Temperature	23.5°C	Humidity	46%

APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

APPENDIX A

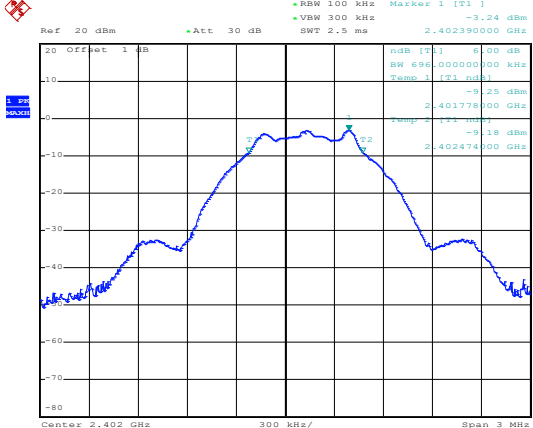
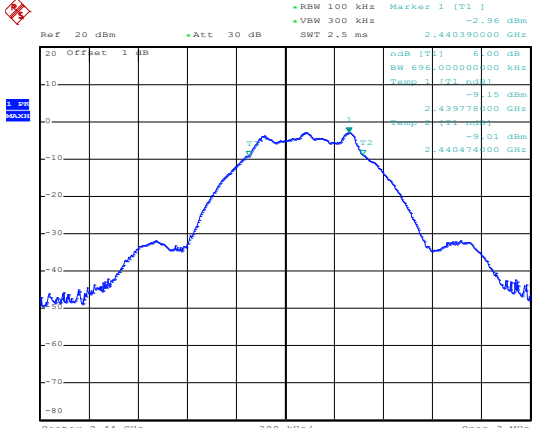
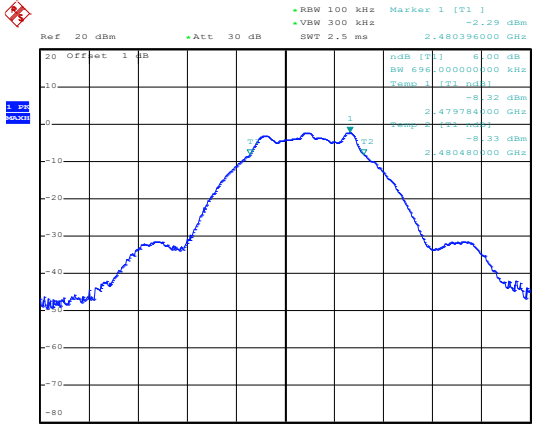
Power Spectral Density			
Test Mode	Test Channel	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
1MGFSK(BLE)	Low	-19.15	8
	Middle	-19.05	8
	High	-18.24	8
2MGFSK(BLE)	Low	-21.08	8
	Middle	-20.85	8
	High	-20.47	8

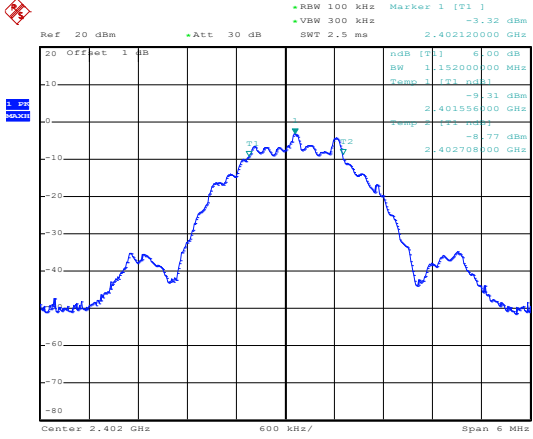
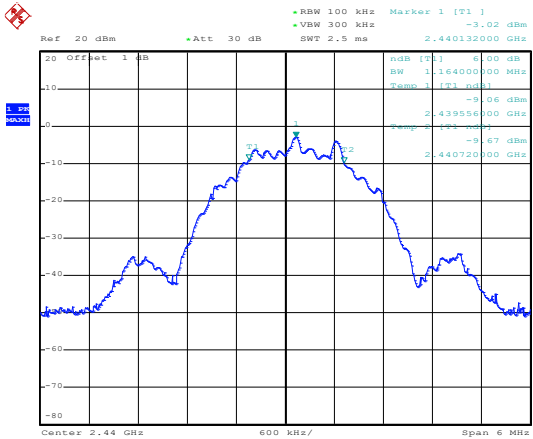
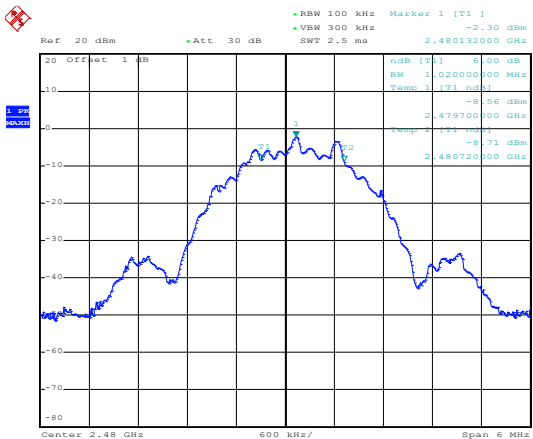
<p>1MLow</p>	 <p>Ref: 20 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 170 ms Marker 1 [T1]: -19.15 dBm 2.402150000 GHz</p> <p>Center: 2.402 GHz Span: 1.5 MHz</p> <p>Date: 30.DEC.2020 15:34:30</p>
<p>1MMiddle</p>	 <p>Ref: 20 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 170 ms Marker 1 [T1]: -19.05 dBm 2.440134000 GHz</p> <p>Center: 2.44 GHz Span: 1.5 MHz</p> <p>Date: 30.DEC.2020 15:41:06</p>
<p>1MHigh</p>	 <p>Ref: 20 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 170 ms Marker 1 [T1]: -18.24 dBm 2.480134000 GHz</p> <p>Center: 2.48 GHz Span: 1.5 MHz</p> <p>Date: 30.DEC.2020 15:45:43</p>

<p>2MLow</p>	 <p>Ref 20 dBm +Att 30 dB +RBW 3 kHz Marker 1 [F1] -21.08 dBm +VBW 10 kHz SWT 340 ms 2.402120000 GHz</p> <p>20 Offset 1 dB -10 -20 -30 -40 -50 -60 -70 -80</p> <p>Center 2.402 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 30.DEC.2020 15:53:50</p>
<p>2MMiddle</p>	 <p>Ref 20 dBm +Att 30 dB +RBW 3 kHz Marker 1 [F1] -20.85 dBm +VBW 10 kHz SWT 340 ms 2.440126000 GHz</p> <p>20 Offset 1 dB -10 -20 -30 -40 -50 -60 -70 -80</p> <p>Center 2.44 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 30.DEC.2020 16:00:51</p>
<p>2MHigh</p>	 <p>Ref 20 dBm +Att 30 dB +RBW 3 kHz Marker 1 [F1] -20.47 dBm +VBW 10 kHz SWT 340 ms 2.480126000 GHz</p> <p>20 Offset 1 dB -10 -20 -30 -40 -50 -60 -70 -80</p> <p>Center 2.48 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 30.DEC.2020 16:05:06</p>

APPENDIX B

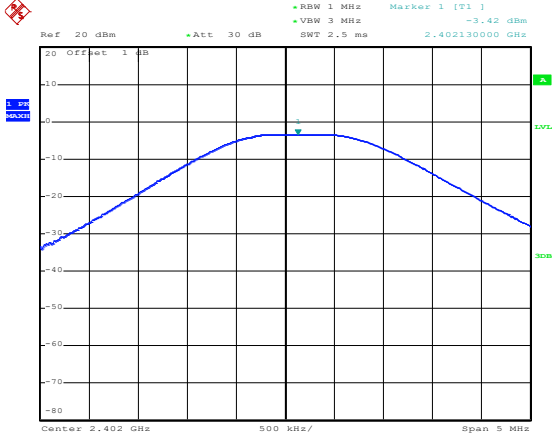
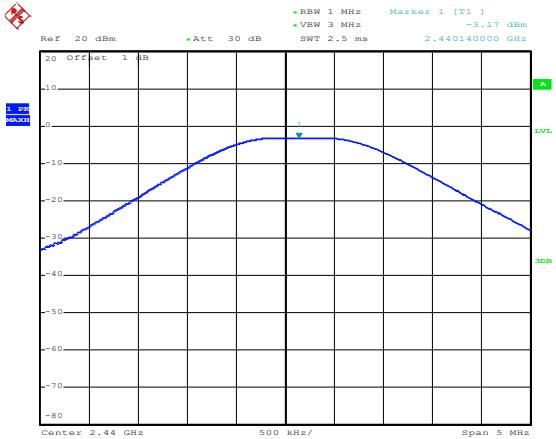
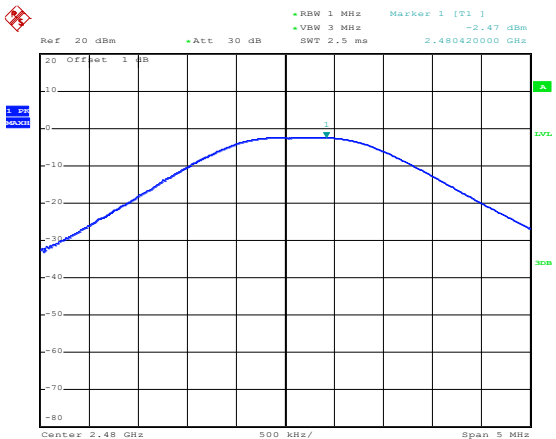
Test Mode	Test Channel	6 dB Bandwidth MHz	Limit kHz
1MGFSK(BLE)	Low	0.696	≥ 500
	Middle	0.696	≥ 500
	High	0.696	≥ 500
2MGFSK(BLE)	Low	1.152	≥ 500
	Middle	1.164	≥ 500
	High	1.020	≥ 500

<p>1MLow</p>	 <p>Ref: 20 dBm Att: 30 dB RBW 100 kHz VBW 300 kHz SWT 2.5 ms Marker 1 [T1] 2.40239000 GHz -3.24 dBm</p> <p>ndB [T1] 6.00 dB BW 696.00000000 kHz Temp 1 [T1 dBm] -9.25 dBm 2.40177800 GHz Temp 2 [T2 dBm] -9.18 dBm 2.40247400 GHz</p> <p>Center 2.402 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 30.DEC.2020 15:35:13</p>
<p>1MMiddle</p>	 <p>Ref: 20 dBm Att: 30 dB RBW 100 kHz VBW 300 kHz SWT 2.5 ms Marker 1 [T1] 2.44039000 GHz -2.96 dBm</p> <p>ndB [T1] 6.00 dB BW 696.00000000 kHz Temp 1 [T1 dBm] -9.15 dBm 2.43977800 GHz Temp 2 [T2 dBm] -9.01 dBm 2.44047400 GHz</p> <p>Center 2.44 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 30.DEC.2020 15:42:25</p>
<p>1MHigh</p>	 <p>Ref: 20 dBm Att: 30 dB RBW 100 kHz VBW 300 kHz SWT 2.5 ms Marker 1 [T1] 2.48039000 GHz -2.29 dBm</p> <p>ndB [T1] 6.00 dB BW 696.00000000 kHz Temp 1 [T1 dBm] -8.32 dBm 2.47978400 GHz Temp 2 [T2 dBm] -8.33 dBm 2.48048000 GHz</p> <p>Center 2.48 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 30.DEC.2020 15:47:05</p>

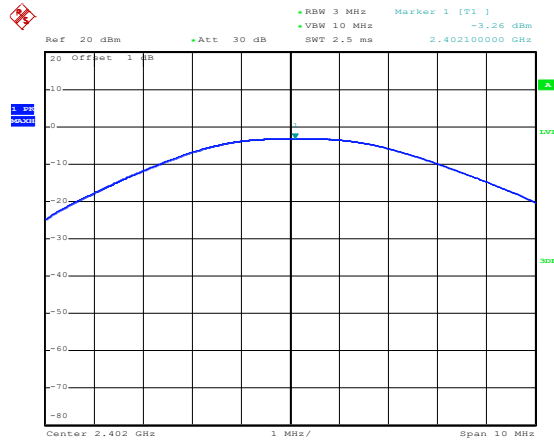
<p>2MLow</p>	 <p> +RBW 100 kHz Marker 1 [T1] -3.32 dBm +VBW 300 kHz Ref 20 dBm +Att 30 dB SWT 2.5 ms 2.402120000 GHz 20 Offset 1 dB ndB [T1] 6.00 dB BW 1.152000000 MHz Temp 1 [T1] ndB -9.31 dBm 2.401556000 GHz Temp 2 [T2] ndB -8.77 dBm 2.402708000 GHz Center 2.402 GHz 600 kHz/ Span 6 MHz </p> <p>Date: 30.DEC.2020 15:55:21</p>
<p>2MMiddle</p>	 <p> +RBW 100 kHz Marker 1 [T1] -3.02 dBm +VBW 300 kHz Ref 20 dBm +Att 30 dB SWT 2.5 ms 2.440132000 GHz 20 Offset 1 dB ndB [T1] 6.00 dB BW 1.164000000 MHz Temp 1 [T1] ndB -9.06 dBm 2.439556000 GHz Temp 2 [T2] ndB -9.67 dBm 2.440720000 GHz Center 2.44 GHz 600 kHz/ Span 6 MHz </p> <p>Date: 30.DEC.2020 16:02:11</p>
<p>2MHigh</p>	 <p> +RBW 100 kHz Marker 1 [T1] -2.30 dBm +VBW 300 kHz Ref 20 dBm +Att 30 dB SWT 2.5 ms 2.480132000 GHz 20 Offset 1 dB ndB [T1] 6.00 dB BW 1.020000000 MHz Temp 1 [T1] ndB -8.56 dBm 2.479708000 GHz Temp 2 [T2] ndB -8.71 dBm 2.480720000 GHz Center 2.48 GHz 600 kHz/ Span 6 MHz </p> <p>Date: 30.DEC.2020 16:06:03</p>

APPENDIX C

RF Output Power			
Test Mode	Test Channel	Reading dBm	Limit dBm
1MGFSK(BLE)	Low	-3.42	30.00
	Middle	-3.17	30.00
	High	-2.47	30.00
2MGFSK(BLE)	Low	-3.26	30.00
	Middle	-3.01	30.00
	High	-2.34	30.00

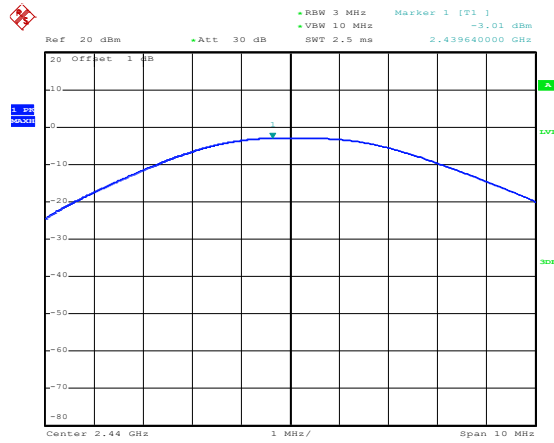
<p>1MLow</p>	 <p>Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] -3.42 dBm +VBW 3 MHz SWT 2.5 ms 2.402130000 GHz</p> <p>20 Offset 1 dB -10 0 -10 -20 -30 -40 -50 -60 -70 -80</p> <p>Center 2.402 GHz 500 kHz/ Span 5 MHz</p> <p>Date: 30.DEC.2020 15:33:40</p>
<p>1MMiddle</p>	 <p>Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] -3.17 dBm +VBW 3 MHz SWT 2.5 ms 2.440140000 GHz</p> <p>20 Offset 1 dB -10 0 -10 -20 -30 -40 -50 -60 -70 -80</p> <p>Center 2.44 GHz 500 kHz/ Span 5 MHz</p> <p>Date: 30.DEC.2020 15:39:34</p>
<p>1MHigh</p>	 <p>Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] -2.47 dBm +VBW 3 MHz SWT 2.5 ms 2.480420000 GHz</p> <p>20 Offset 1 dB -10 0 -10 -20 -30 -40 -50 -60 -70 -80</p> <p>Center 2.48 GHz 500 kHz/ Span 5 MHz</p> <p>Date: 30.DEC.2020 15:45:08</p>

2MLow



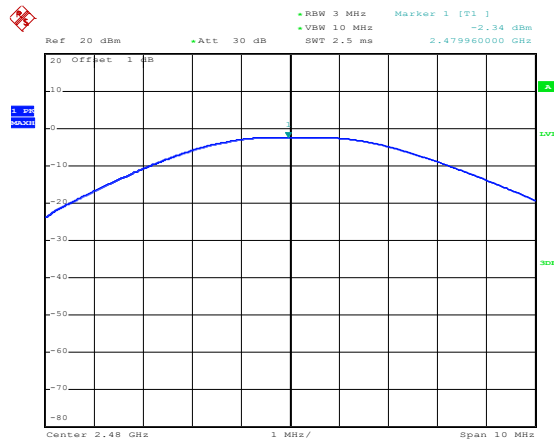
Date: 30.DEC.2020 15:53:04

2MMiddle



Date: 30.DEC.2020 15:59:18

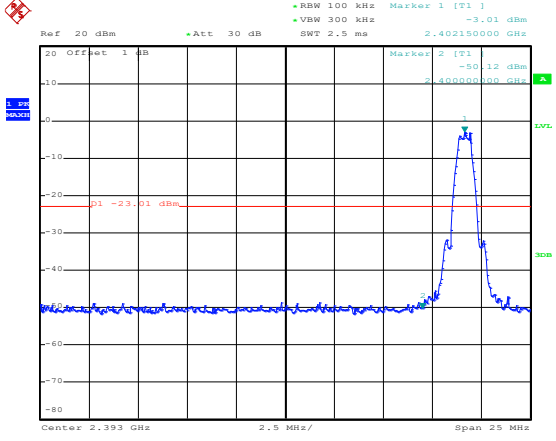
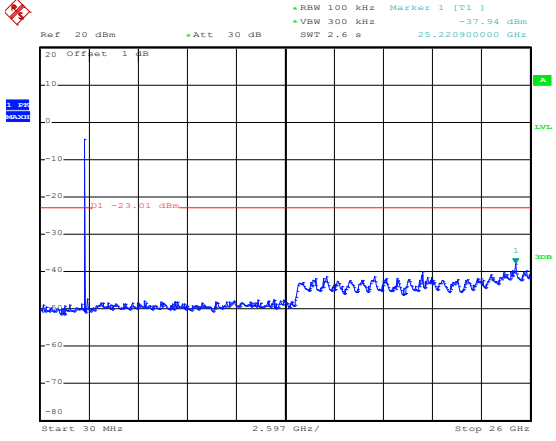
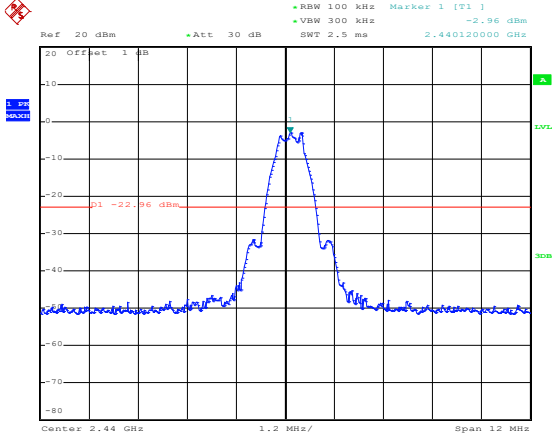
2MHigh

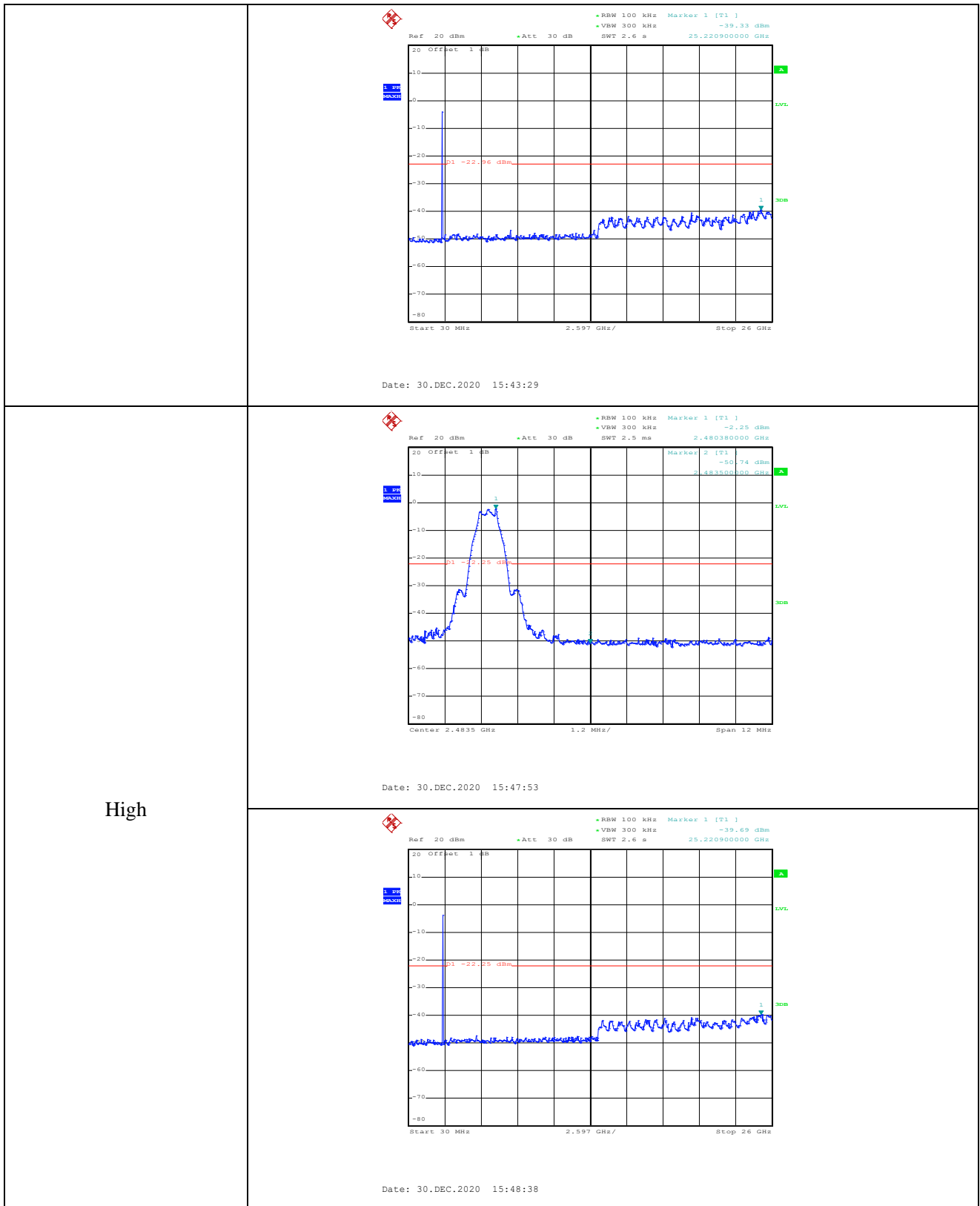


Date: 30.DEC.2020 16:04:42

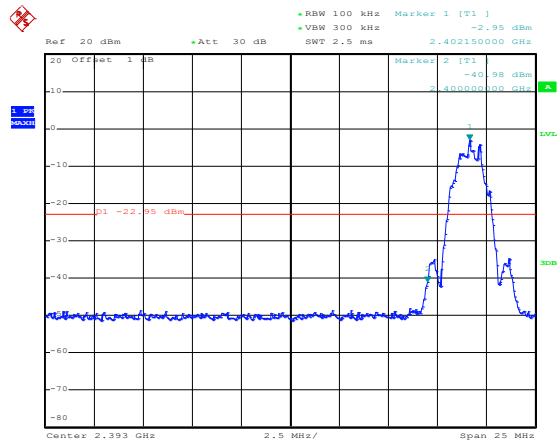
APPENDIX D

Conducted Out of Band Emissions

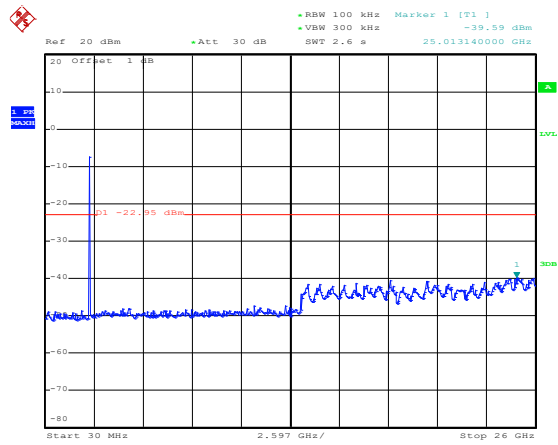
Low	 <p>Date: 30.DEC.2020 15:37:29</p>
	 <p>Date: 30.DEC.2020 15:38:03</p>
Middle	 <p>Date: 30.DEC.2020 15:43:09</p>



Low

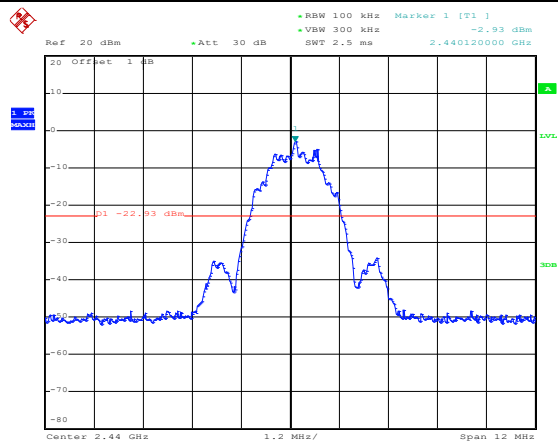


Date: 30.DEC.2020 15:56:33

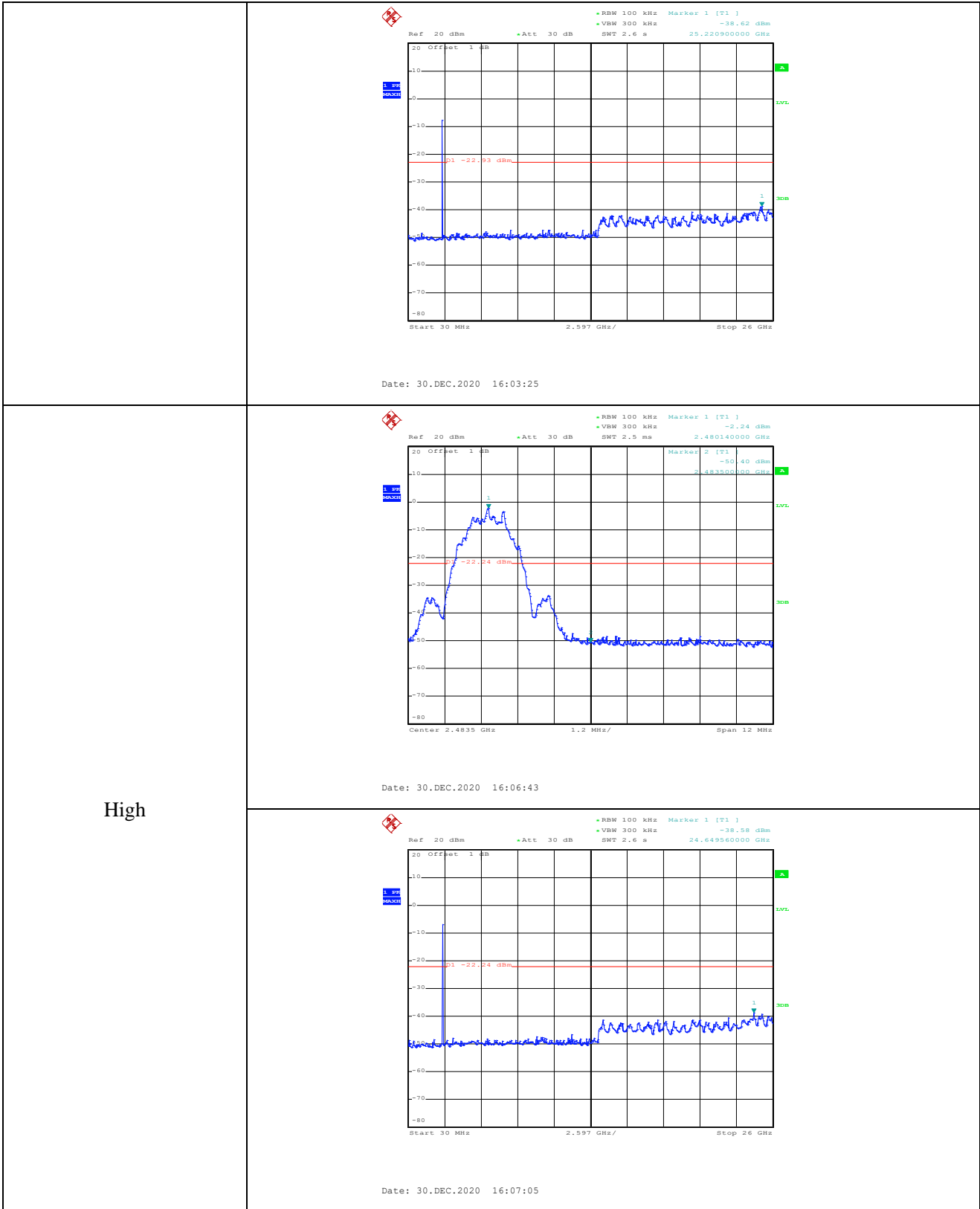


Date: 30.DEC.2020 15:56:57

Middle



Date: 30.DEC.2020 16:03:06



APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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