

TEST REPORT

Reference No...... : WTX23X12271520W001
FCC ID..... : 2AMPY-RGOTWBMWLBL
Applicant..... : R-Go Tools BV
Address..... : Technieweg15,4143HW Leerdam 4143HW Netherlands(Kingdom Of The)
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : R-GO Twister Mouse
Model No...... : RGOTWBMWLBL
Standards..... : FCC Part 15.247
Date of Receipt sample..... : 2023-12-20
Date of Test..... : 2023-12-20 to 2024-02-23; 2024-03-20 to 2024-04-26
Date of Issue..... : 2024-04-26
Test Report Form No...... : WTX_Part 15_247W
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 approver.

Prepared By:

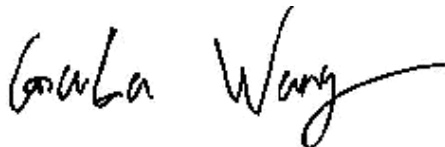
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Approved by:



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Report version

Version No.	Date of issue	Description
Rev.00	2024-04-26	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	R-GO Twister Mouse
Trade Name	R-GO TOOLS
Model No.:	RGOTWBMWLBL
Adding Model(s):	/
Rated Voltage:	DC 3.7V
Battery Capacity:	230mAh
Power Adapter:	/
<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:	1Mbps:2.59dBm (Conducted) 2Mbps:2.33dBm (Conducted)
Data Rate:	1Mbps, 2Mbps
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Type of Antenna:	PCB antenna
Antenna Gain:	-0.58dBi
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

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 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

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 and the CAB identifier is CN0057.

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
Type-C Cable	1.5	Shielded	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	100-14IBD	PF0F4ABV

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

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2023-02-25	2024-02-24
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2023-02-25	2024-02-24
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2023-02-25	2024-02-24
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2023-02-25	2024-02-24
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2023-02-25	2024-02-24
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2023-03-20	2026-03-19
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	14918	2023-02-25	2024-02-24
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2021-03-19	2024-03-18
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2024-04-08
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2023-02-25	2024-02-24
WTXE1001A	EMI Test	Rohde &	ESPI	101391	2023-02-25	2024-02-24

1002	Receiver	Schwarz				
☒ Chamber C: Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2023-02-25	2024-02-24
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2023-02-25	2024-02-24
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
☐ Conducted Room 1#						
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2023-02-25	2024-02-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2023-02-25	2024-02-24
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2023-02-25	2024-02-24
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2023-02-25	2024-02-24
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2023-02-25	2024-02-24

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2024-02-24	2025-02-23
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2024-03-19	2025-03-18
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2024-02-24	2025-02-23
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2024-02-27	2025-02-26
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2024-02-24	2025-02-23
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	2002	2024-02-27	2025-02-26
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2024-02-26	2025-02-25
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2024-02-24	2025-02-23
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23

☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2024-02-24	2025-02-23
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2024-02-27	2025-02-26
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2023-12-12	2024-12-11
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2024-02-24	2025-02-23
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2024-02-24	2025-02-23
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2024-02-24	2025-02-23
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2024-02-24	2025-02-23

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 1#)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 2#)*	SKET	EMC-I	V2.0

*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

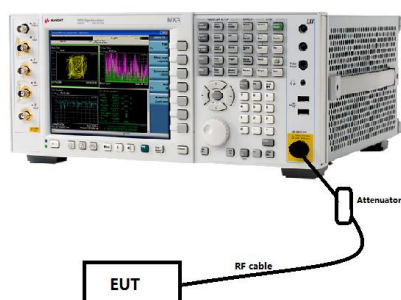
This product has a PCB antenna, fulfill the requirement of this section.

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 8dBm in any 3kHz 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 3kHz) and repeat.

4.4 Summary of Test Results/Plots

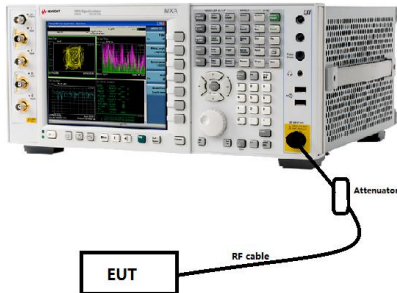
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

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

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 = 100kHz.
- 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 6dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

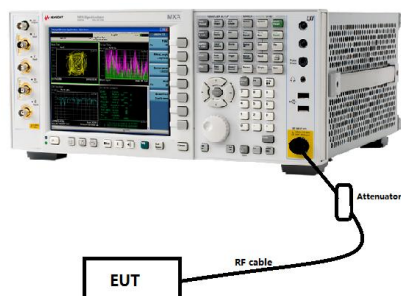
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

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

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq 3 \times$ RBW.
- c) Set span $\geq 3 \times$ RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) 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 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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).

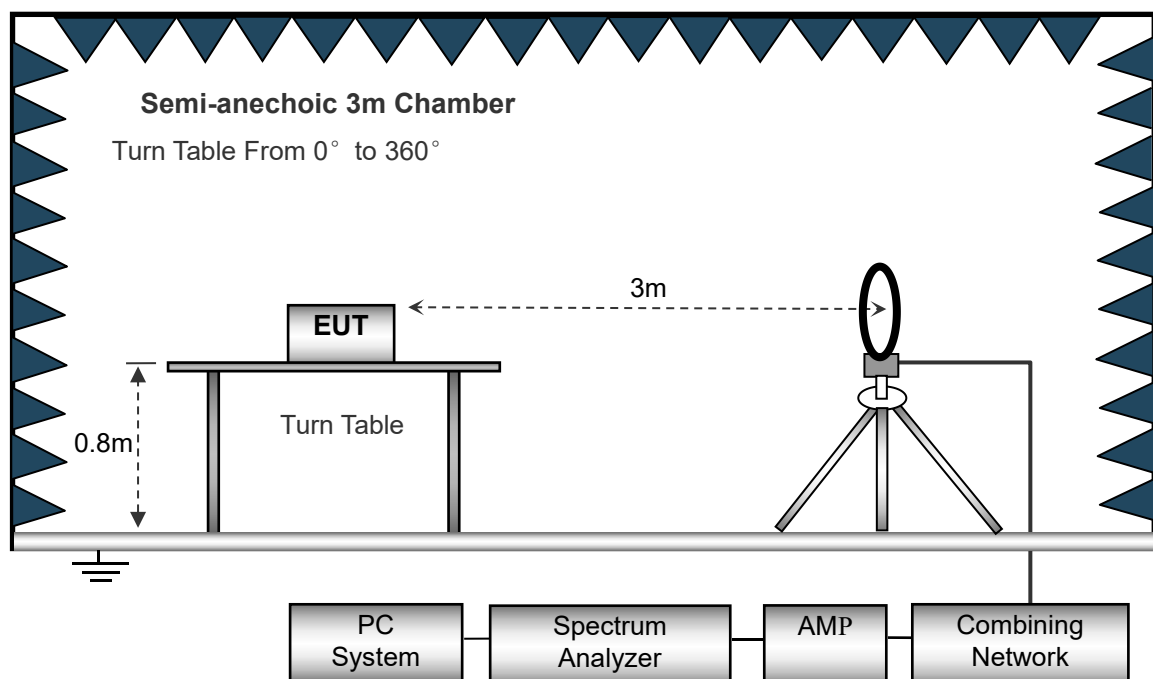
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

7.2 Test Procedure

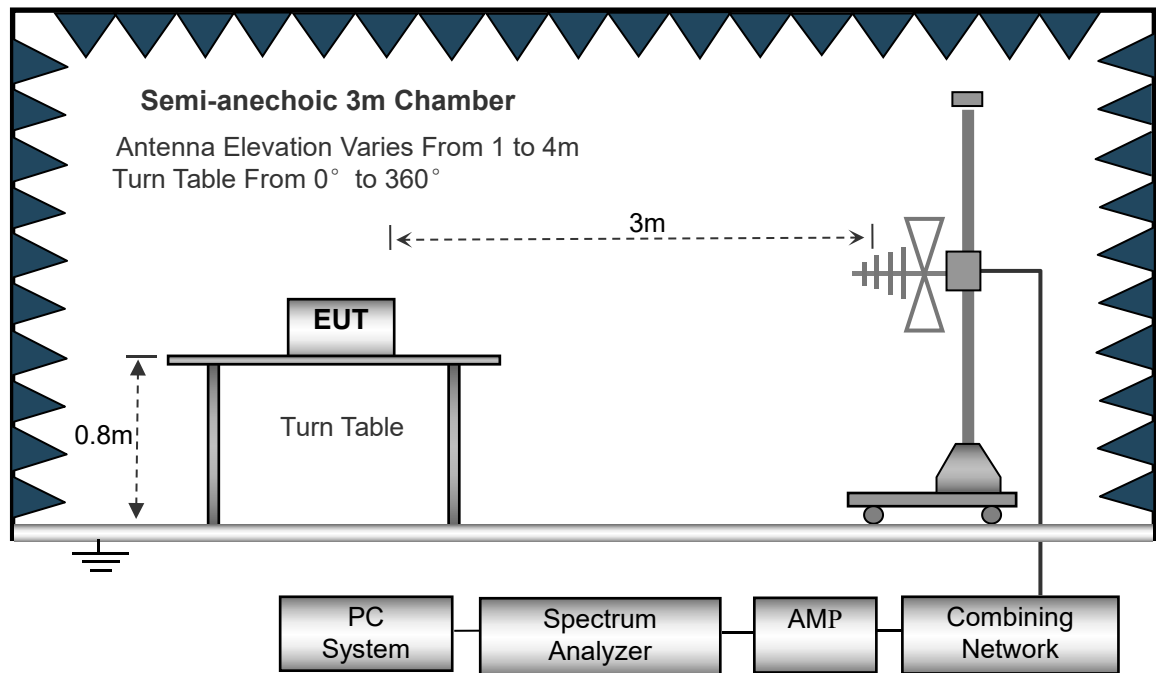
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

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

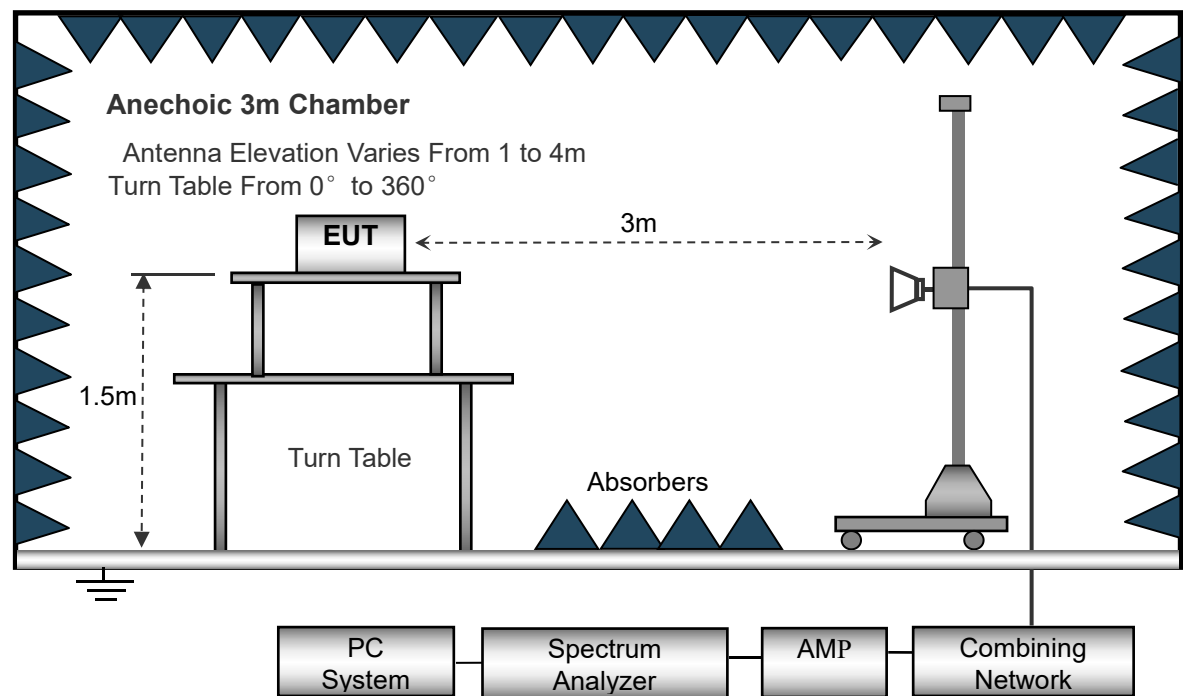
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



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

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

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

Detector function = peak

Detector function = peak, QP

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 -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

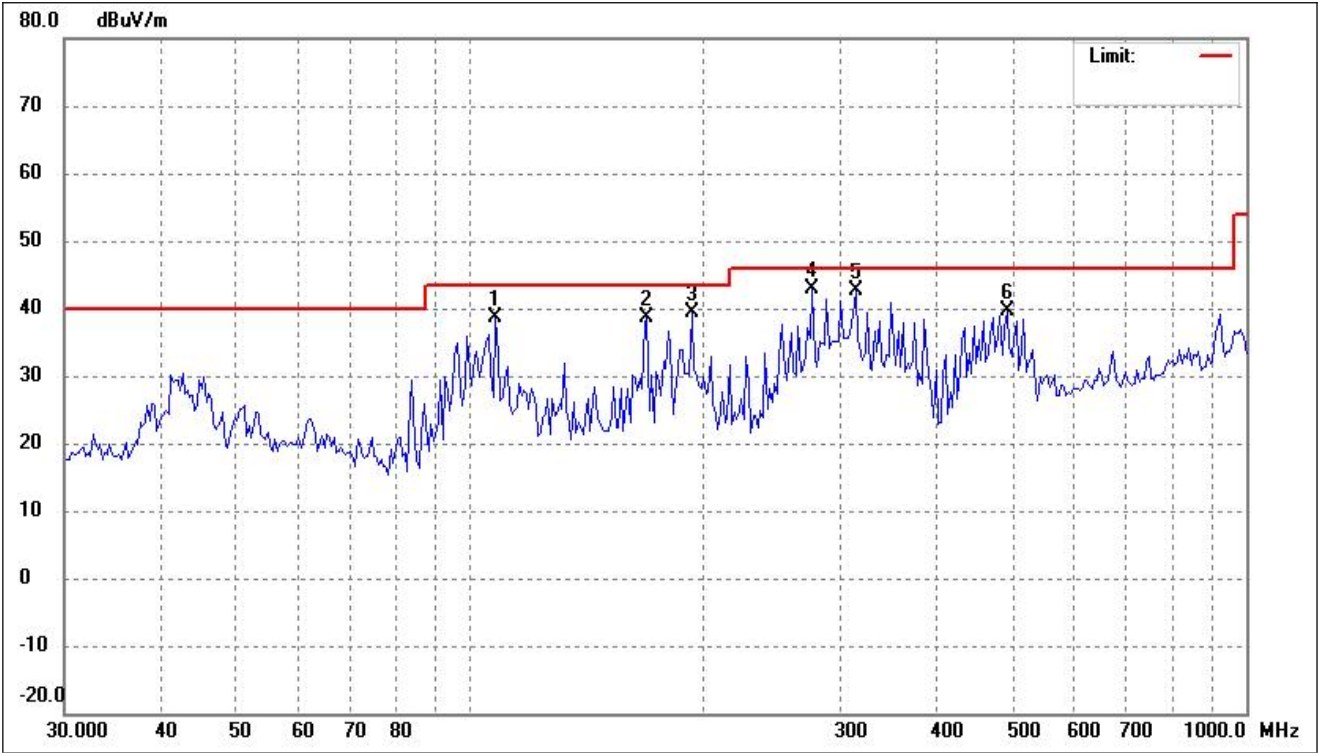
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

7.4 Summary of Test Results/Plots

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

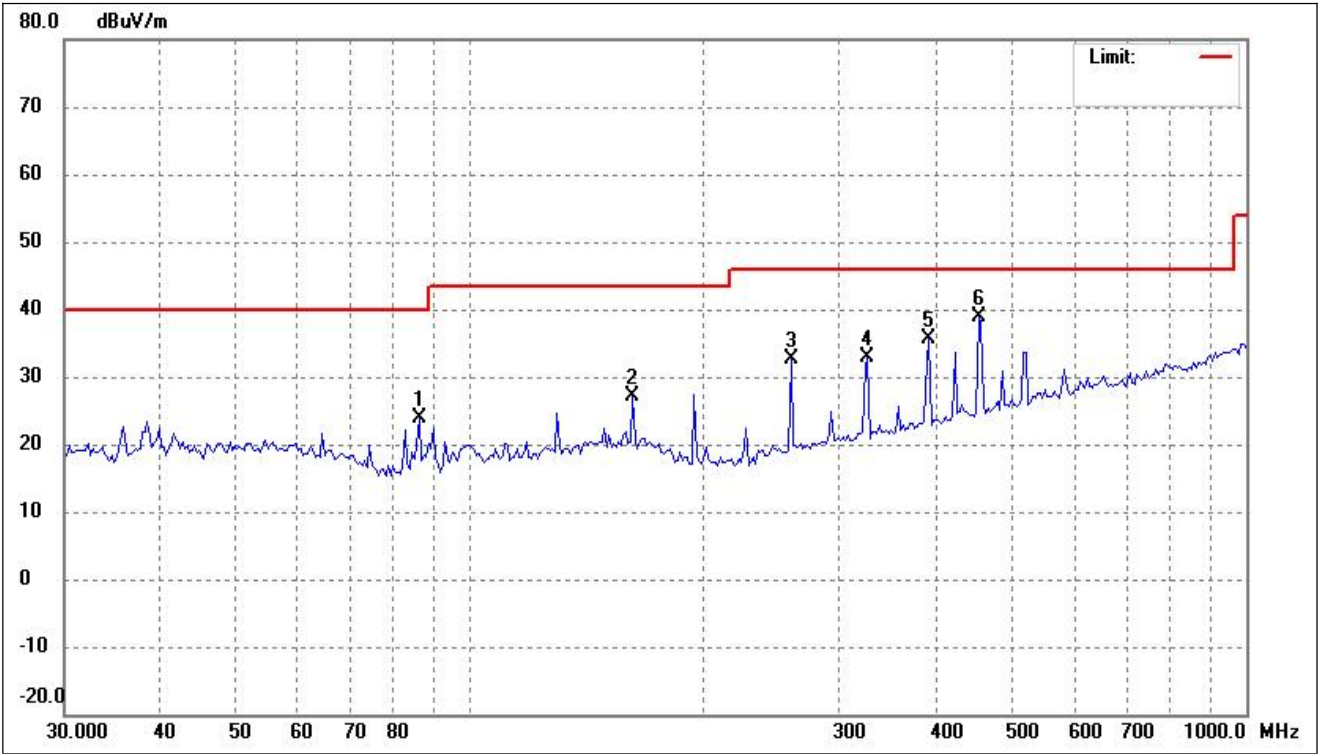
- Spurious Emissions Below 1GHz
- 1Mbps

Test Channel	Low(worst case)	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	107.7854	50.41	-11.78	38.63	43.50	-4.87	-	-	peak
2	168.9970	47.55	-8.85	38.70	43.50	-4.80	-	-	peak
3	193.1366	51.02	-11.60	39.42	43.50	-4.08	-	-	peak
4	276.3818	52.05	-9.06	42.99	46.00	-3.01	-	-	peak
5	313.6482	50.54	-7.87	42.67	46.00	-3.33	-	-	peak
6	491.7700	43.66	-4.01	39.65	46.00	-6.35	-	-	peak

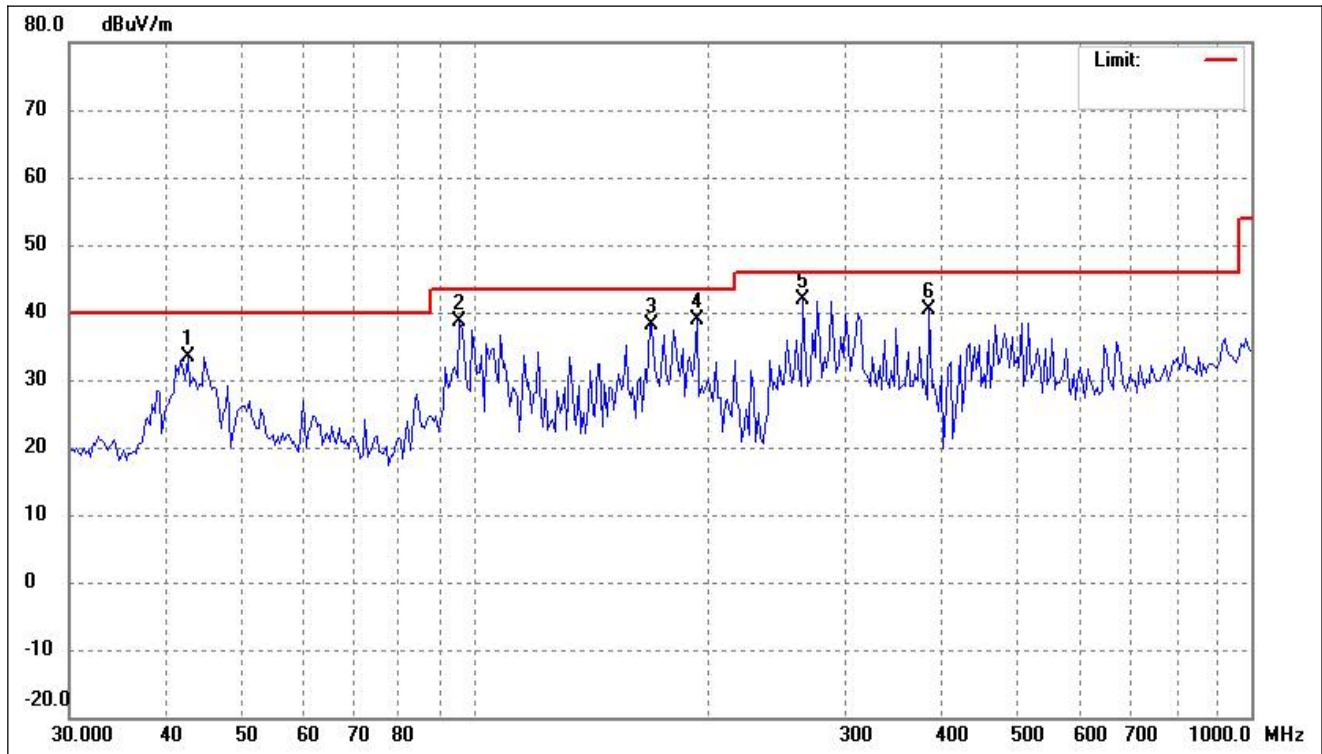
Test Channel	Low(worst case)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	86.0795	36.99	-13.04	23.95	40.00	-16.05	-	-	peak
2	162.0197	35.79	-8.66	27.13	43.50	-16.37	-	-	peak
3	259.4433	42.32	-9.79	32.53	46.00	-13.47	-	-	peak
4	324.8645	40.54	-7.55	32.99	46.00	-13.01	-	-	peak
5	389.9874	41.91	-6.16	35.75	46.00	-10.25	-	-	peak
6	452.0013	43.48	-4.56	38.92	46.00	-7.08	-	-	peak

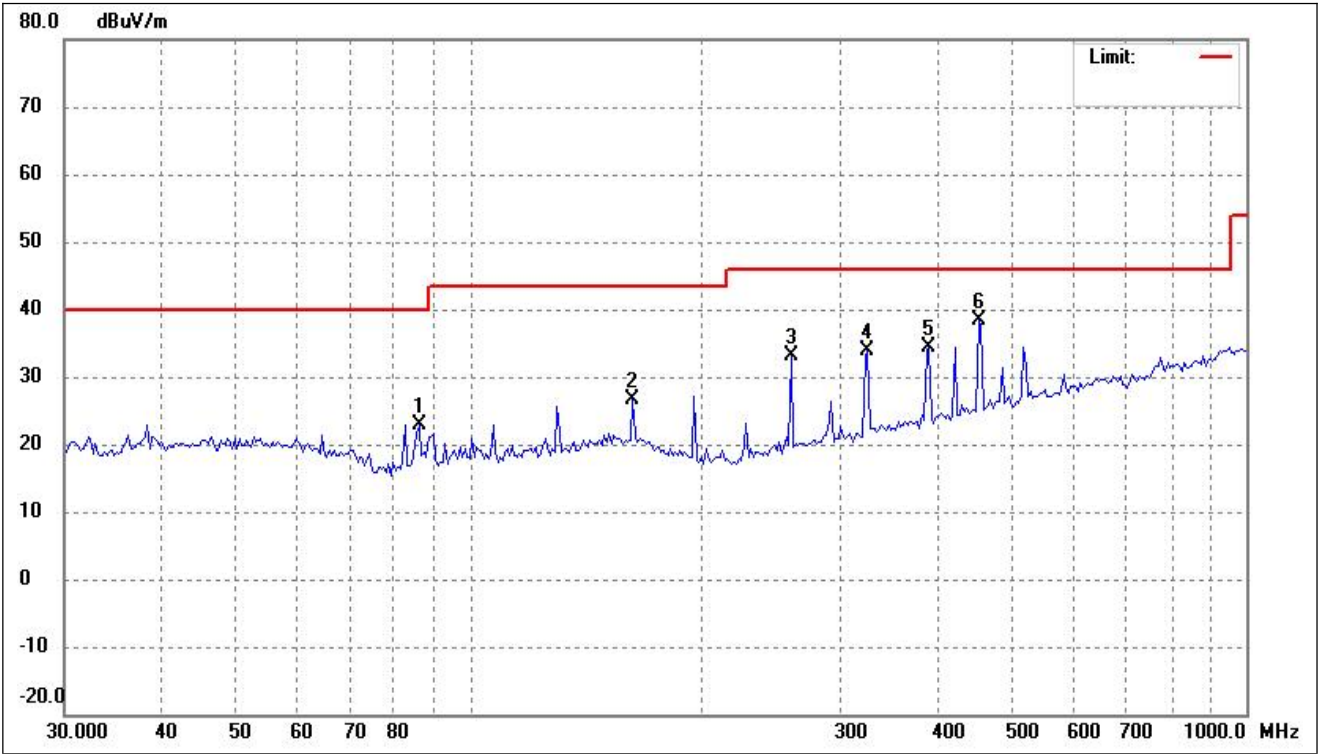
➤ 2Mbps

Test Channel	Low(worst case)	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	42.6299	41.88	-8.48	33.40	40.00	-6.60	-	-	peak
2	95.6485	51.43	-12.75	38.68	43.50	-4.82	-	-	peak
3	168.9970	47.04	-8.85	38.19	43.50	-5.31	-	-	peak
4	193.1366	50.49	-11.60	38.89	43.50	-4.61	-	-	peak
5	264.9709	51.39	-9.55	41.84	46.00	-4.16	-	-	peak
6	384.5447	46.78	-6.28	40.50	46.00	-5.50	-	-	peak

Test Channel	Low(worst case)	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	86.0795	35.86	-13.04	22.82	40.00	-17.18	-	-	peak
2	162.0197	35.26	-8.66	26.60	43.50	-16.90	-	-	peak
3	259.4433	42.88	-9.79	33.09	46.00	-12.91	-	-	peak
4	324.8645	41.48	-7.55	33.93	46.00	-12.07	-	-	peak
5	389.9874	40.57	-6.16	34.41	46.00	-11.59	-	-	peak
6	452.0013	42.84	-4.56	38.28	46.00	-7.72	-	-	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

1Mbps

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2402MHz							
4795.868	64.49	-12.67	51.82	74.00	-22.18	H	PK
7198.184	58.96	-6.19	52.77	74.00	-21.23	H	PK
4795.868	64.71	-12.67	52.04	74.00	-21.96	V	PK
7198.184	59.13	-6.19	52.94	74.00	-21.06	V	PK
Middle Channel-2440MHz							
4870.396	64.78	-12.58	52.20	74.00	-21.80	H	PK
7310.044	58.74	-6.48	52.26	74.00	-21.74	H	PK
4870.396	62.82	-12.58	50.24	74.00	-23.76	V	PK
7310.044	58.84	-6.48	52.36	74.00	-21.64	V	PK
High Channel-2480MHz							
4971.571	65.06	-12.43	52.63	74.00	-21.37	H	PK
7461.900	59.77	-6.86	52.91	74.00	-21.09	H	PK
4960.000	64.26	-12.44	51.82	74.00	-22.18	V	PK
7440.000	59.01	-6.80	52.21	74.00	-21.79	V	PK

2Mbps

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2402MHz							
4795.868	64.77	-12.67	52.10	74.00	-21.90	H	PK
7198.184	58.59	-6.19	52.40	74.00	-21.60	H	PK
4795.868	63.87	-12.67	51.20	74.00	-22.80	V	PK
7198.184	57.75	-6.19	51.56	74.00	-22.44	V	PK
Middle Channel-2440MHz							
4870.396	65.21	-12.58	52.63	74.00	-21.37	H	PK
7310.044	59.21	-6.48	52.73	74.00	-21.27	H	PK
4870.396	63.72	-12.58	51.14	74.00	-22.86	V	PK
7310.044	59.10	-6.48	52.62	74.00	-21.38	V	PK
High Channel-2480MHz							
4971.571	64.44	-12.43	52.01	74.00	-21.99	H	PK
7461.900	59.69	-6.86	52.83	74.00	-21.17	H	PK
4960.000	64.44	-12.44	52.00	74.00	-22.00	V	PK
7440.000	59.04	-6.80	52.24	74.00	-21.76	V	PK

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 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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 = 100kHz.
- 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.

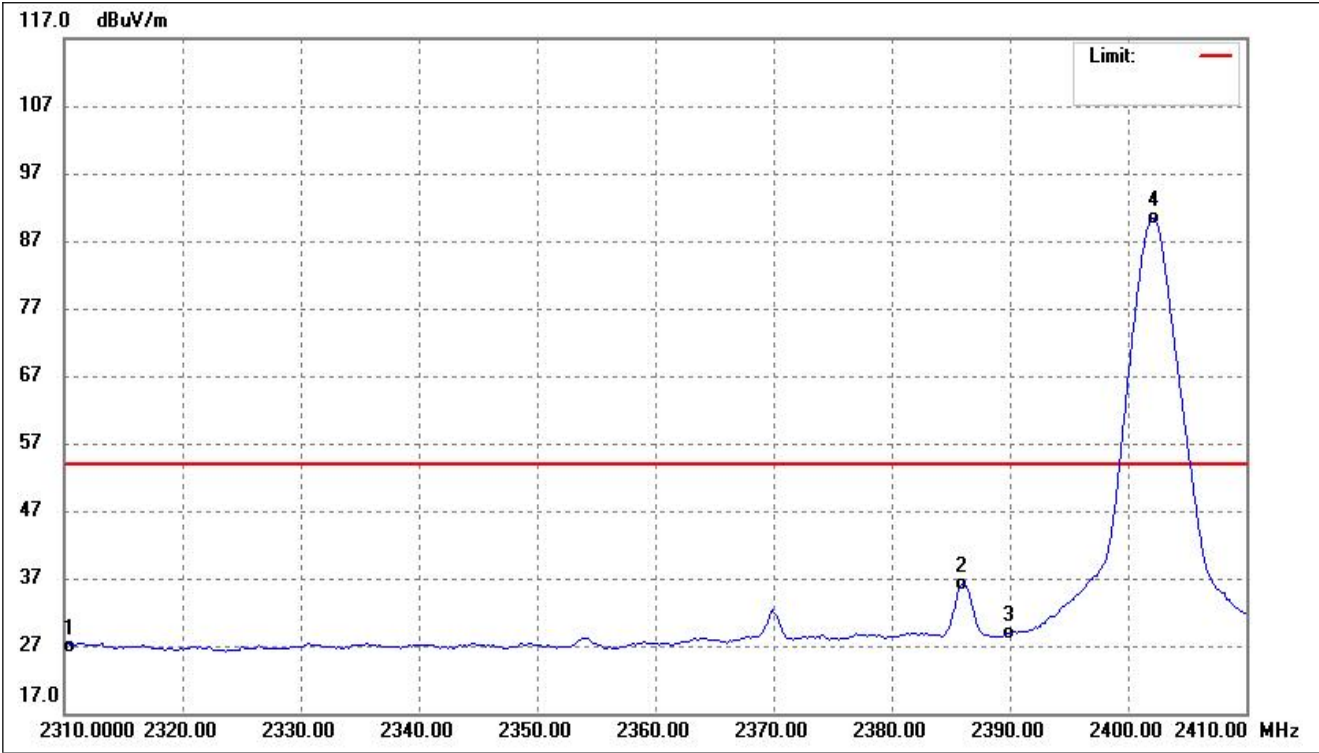
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

➤ Radiated test

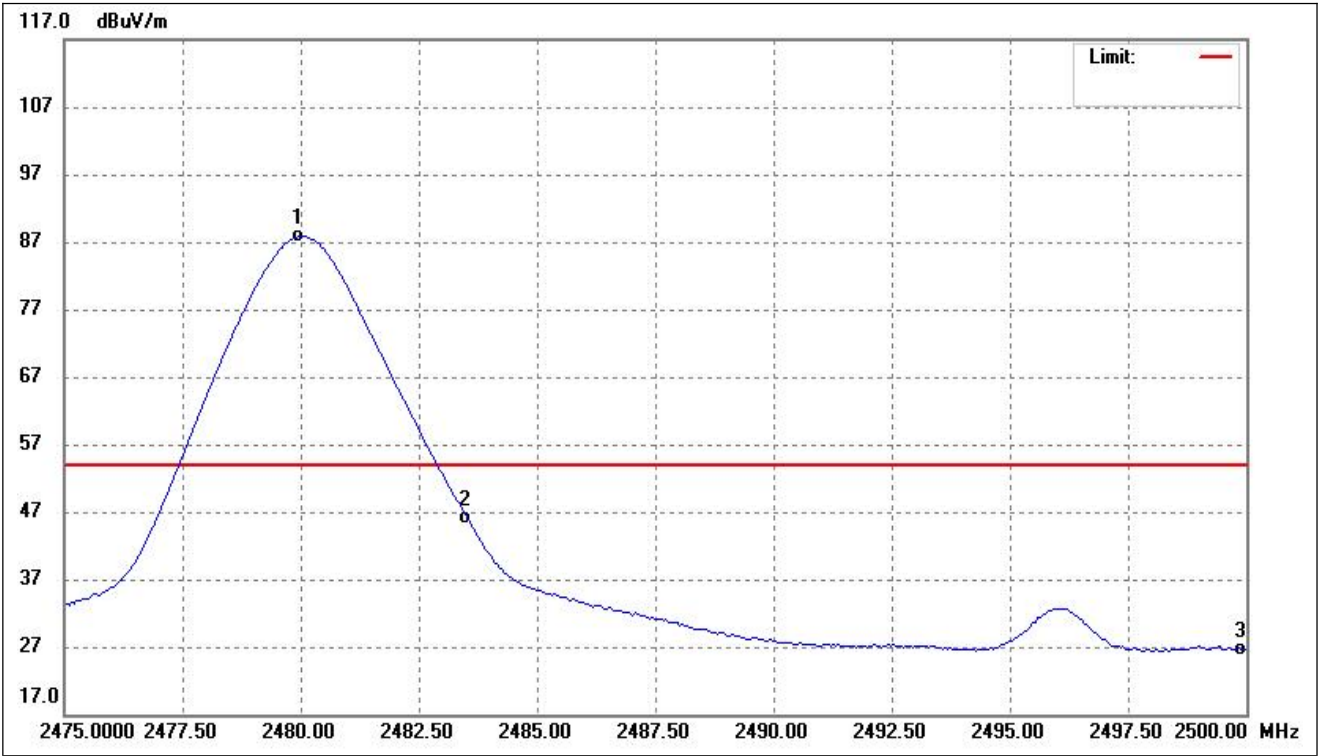
1Mbps

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	45.90	-19.02	26.88	54.00	-27.12	Average Detector
	2310.000	58.66	-19.02	39.64	74.00	-34.36	Peak Detector
2	2385.952	55.05	-18.87	36.18	54.00	-17.82	Average Detector
	2385.952	65.39	-18.87	46.52	74.00	-27.48	Peak Detector
3	2390.000	47.72	-18.87	28.85	54.00	-25.15	Average Detector
	2390.000	62.76	-18.87	43.89	74.00	-30.11	Peak Detector
4	2402.184	109.15	-18.85	90.30	/	/	Average Detector
	2402.184	122.53	-18.85	103.68	/	/	Peak Detector

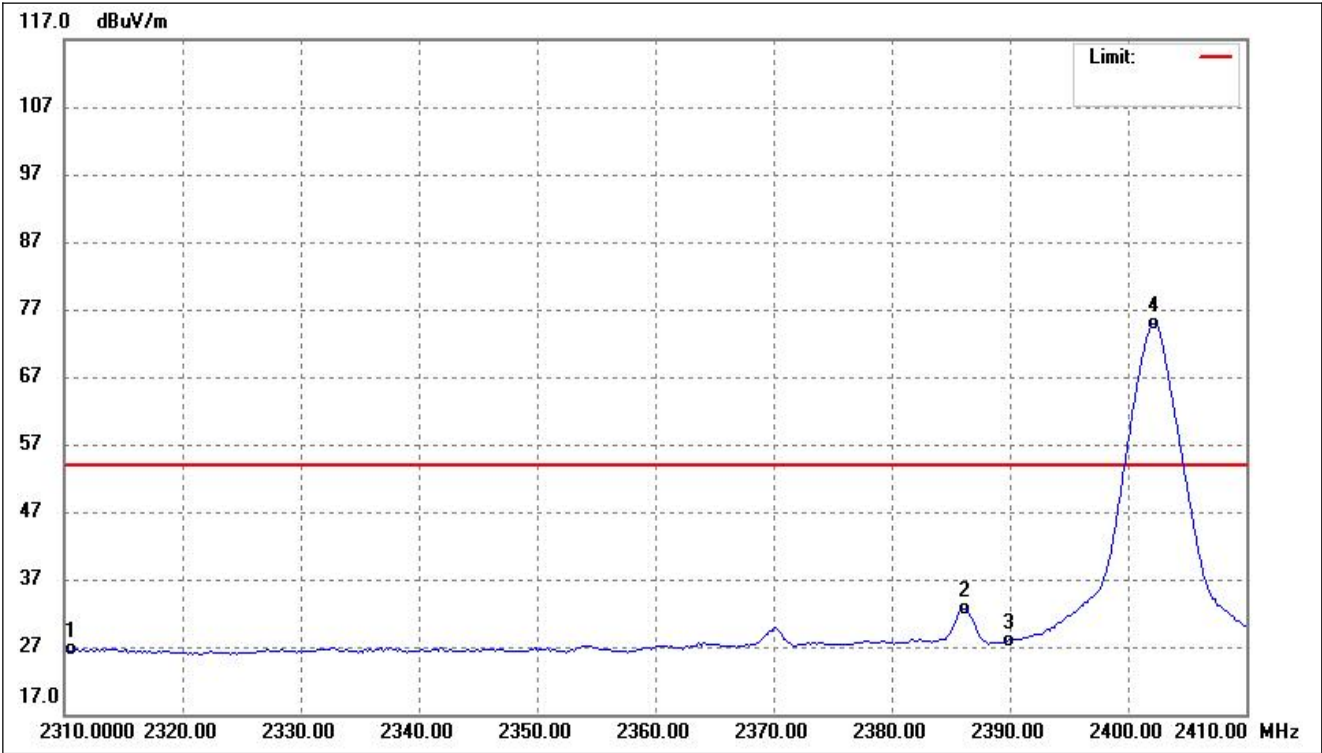
Test Channel	High	Polarity:	Horizontal(worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.960	106.55	-18.68	87.87	/	/	Average Detector
	2480.110	120.03	-18.68	101.35	/	/	Peak Detector
2	2483.500	64.81	-18.68	46.13	54.00	-7.87	Average Detector
	2483.500	84.22	-18.68	65.54	74.00	-8.46	Peak Detector
3	2500.000	45.37	-18.65	26.72	54.00	-27.28	Average Detector
	2500.000	66.51	-18.65	47.86	74.00	-26.14	Peak Detector

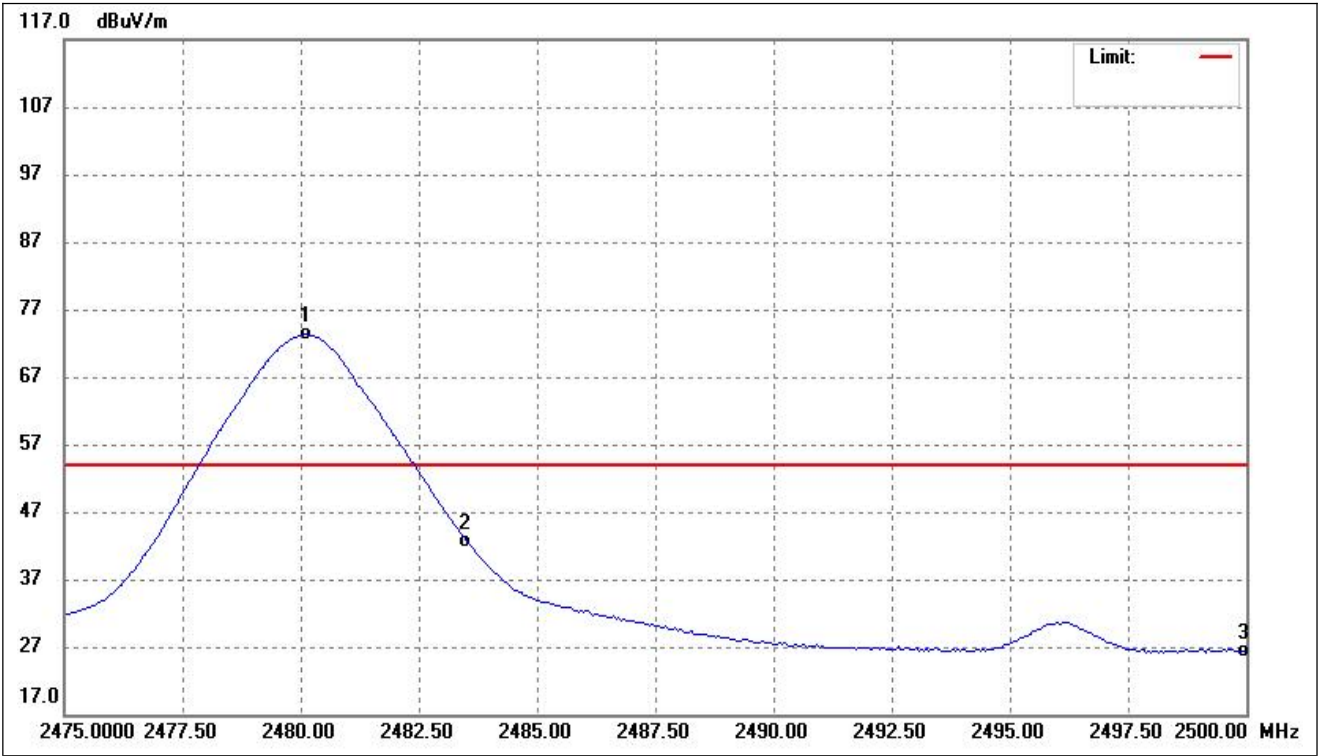
2Mbps

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	45.68	-19.02	26.66	54.00	-27.34	Average Detector
	2310.000	58.31	-19.02	39.29	74.00	-34.71	Peak Detector
2	2386.152	51.46	-18.87	32.59	54.00	-21.41	Average Detector
	2386.152	64.30	-18.87	45.43	74.00	-28.57	Peak Detector
3	2390.000	46.82	-18.87	27.95	54.00	-26.05	Average Detector
	2390.000	61.89	-18.87	43.02	74.00	-30.98	Peak Detector
4	2402.184	93.71	-18.85	74.86	/	/	Average Detector
	2402.385	122.52	-18.84	103.68	/	/	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	2480.110	91.98	-18.68	73.30	/	/	Average Detector
	2480.461	120.75	-18.68	102.07	/	/	Peak Detector
2	2483.500	61.19	-18.68	42.51	54.00	-11.49	Average Detector
	2483.500	86.80	-18.68	68.12	74.00	-5.88	Peak Detector
3	2500.000	45.07	-18.65	26.42	54.00	-27.58	Average Detector
	2500.000	66.47	-18.65	47.82	74.00	-26.18	Peak Detector

➤ Conducted test
Please refer to Appendix D

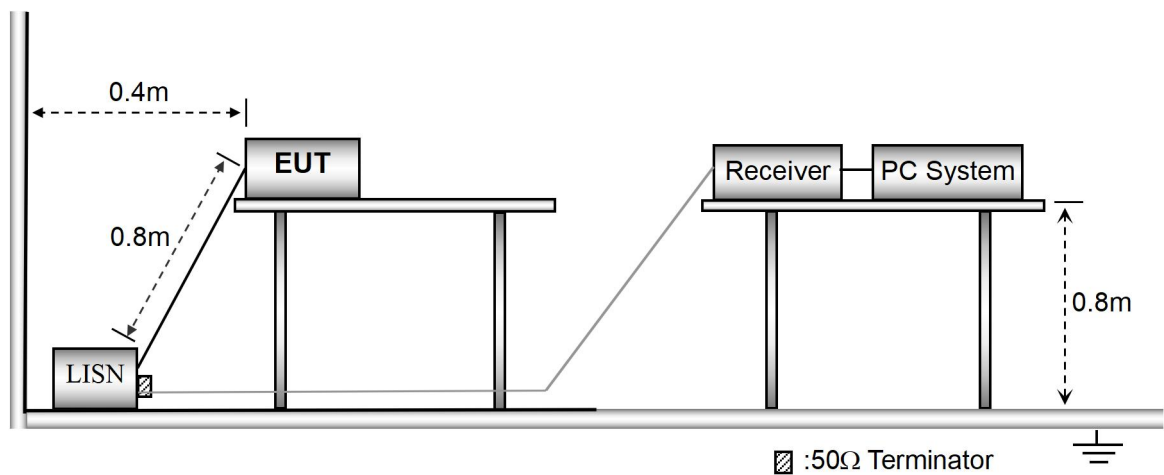
9. Conducted Emissions

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 40cm long in the middle. The spacing between the peripherals was 10cm.

9.2 Basic Test Setup Block Diagram



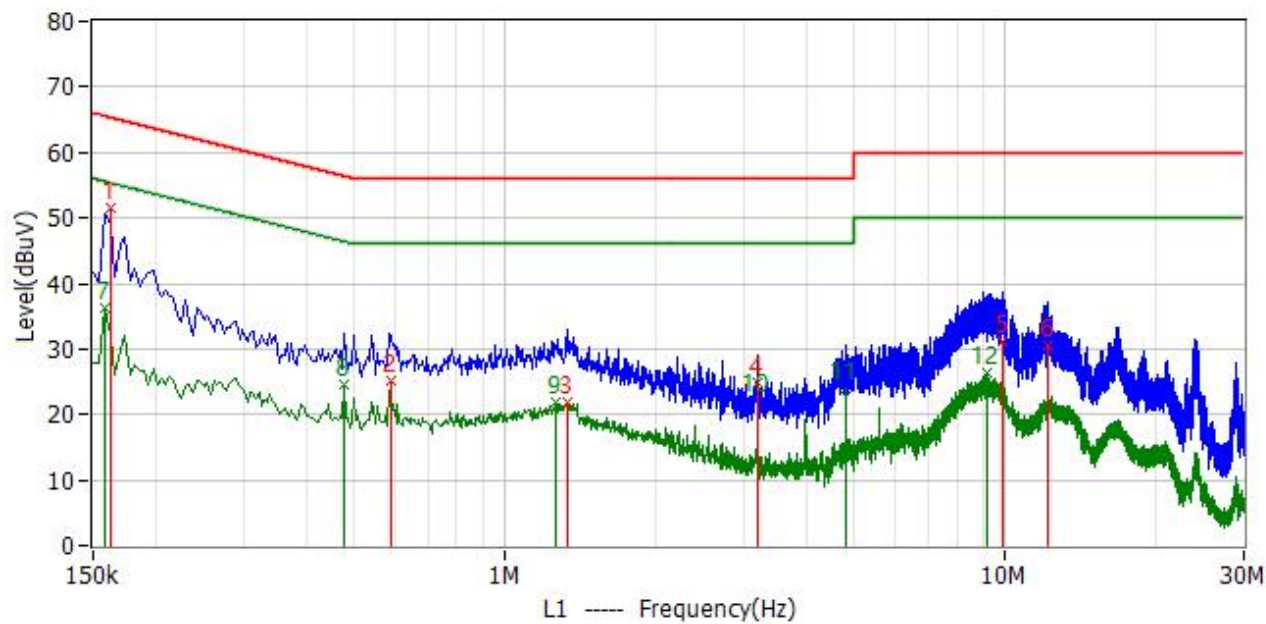
9.3 Test Receiver Setup

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

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

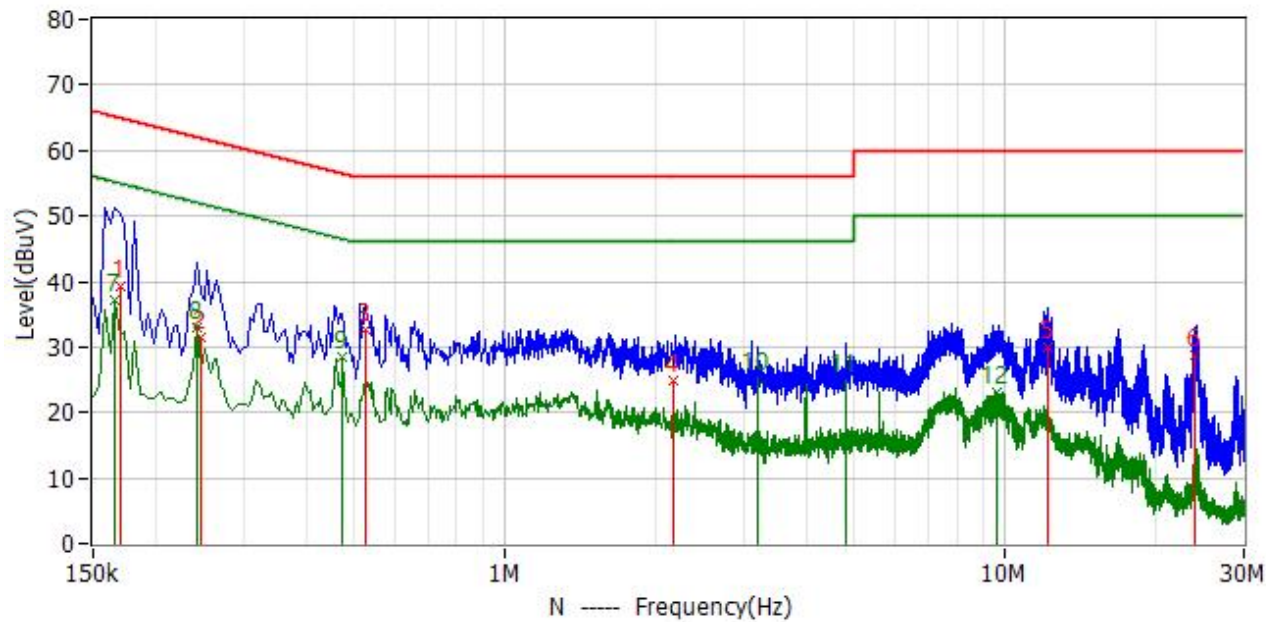
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	162.000kHz	41.5	9.9	51.4	65.4	-14.0	QP
2	590.000kHz	15.6	9.7	25.3	56.0	-30.7	QP
3	1.330MHz	12.2	9.8	22.0	56.0	-34.0	QP
4	3.190MHz	15.1	9.9	25.0	56.0	-31.0	QP
5	9.878MHz	21.3	9.8	31.1	60.0	-28.9	QP
6	12.146MHz	20.9	9.8	30.7	60.0	-29.3	QP
7*	158.000kHz	26.3	9.9	36.2	55.6	-19.3	AV
8*	478.000kHz	15.0	9.7	24.7	46.4	-21.7	AV
9*	1.266MHz	12.0	9.8	21.8	46.0	-24.2	AV
10*	3.190MHz	12.3	9.9	22.2	46.0	-23.8	AV
11*	4.790MHz	14.2	9.9	24.1	46.0	-21.9	AV
12*	9.186MHz	16.5	9.8	26.3	50.0	-23.7	AV

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	170.000kHz	29.6	9.7	39.3	65.0	-25.6	QP
2	246.000kHz	21.8	9.8	31.6	61.9	-30.3	QP
3	526.000kHz	23.0	9.6	32.6	56.0	-23.4	QP
4	2.178MHz	15.3	9.7	25.0	56.0	-31.0	QP
5	12.142MHz	20.3	9.8	30.1	60.0	-29.9	QP
6	23.910MHz	18.4	10.3	28.7	60.0	-31.3	QP
7*	166.000kHz	27.5	9.7	37.2	55.2	-18.0	AV
8*	242.000kHz	23.3	9.8	33.1	52.0	-18.9	AV
9*	474.000kHz	18.7	9.7	28.4	46.4	-18.0	AV
10*	3.194MHz	15.4	9.8	25.2	46.0	-20.8	AV
11*	4.794MHz	15.2	9.8	25.0	46.0	-21.0	AV
12*	9.630MHz	13.3	9.9	23.2	50.0	-26.8	AV

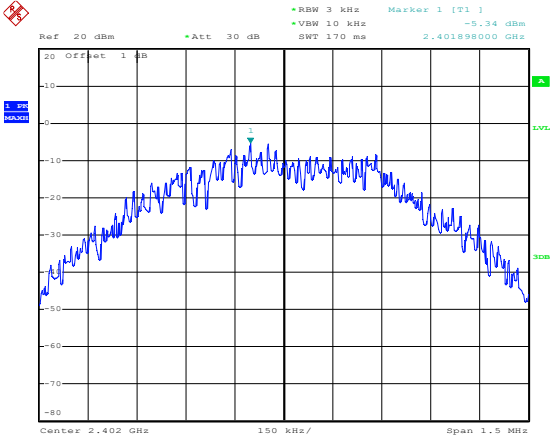
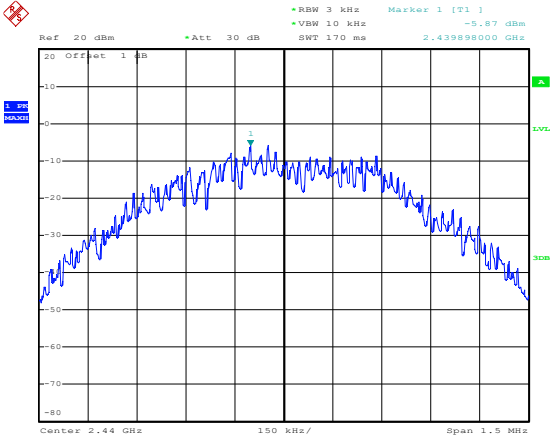
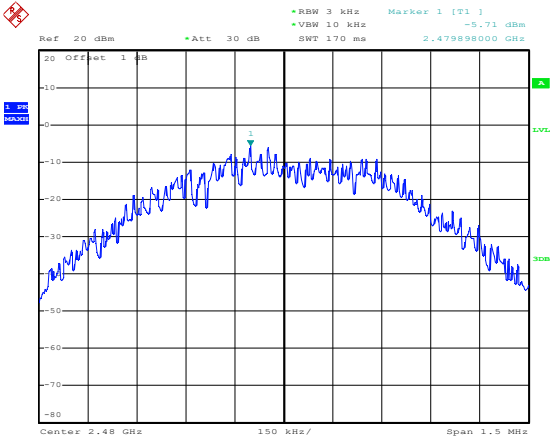
APPENDIX SUMMARY

Project No.	WTX23X12271520W	Test Engineer	Timi Huang
Start date	2024/1/4	Finish date	2024/4/26
Temperature	23.3℃	Humidity	35%
RF specifications	BT-BLE		

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
BLE-GFSK-1Mbps	Low	-5.34	8
	Middle	-5.87	8
	High	-5.71	8
BLE-GFSK-1Mbps	Low	-10.26	8
	Middle	-11.55	8
	High	-10.36	8

Low-1Mbps	 Ref: 20 dBm *Att: 30 dB *RBW: 3 kHz *VBW: 10 kHz *SWT: 170 ms *Marker 1 [T1]: -5.34 dBm *Center: 2.401898000 GHz Center: 2.402 GHz 150 kHz/ Span: 1.5 MHz Date: 4.JAN.2024 09:25:07
Middle-1Mbps	 Ref: 20 dBm *Att: 30 dB *RBW: 3 kHz *VBW: 10 kHz *SWT: 170 ms *Marker 1 [T1]: -5.87 dBm *Center: 2.439856000 GHz Center: 2.44 GHz 150 kHz/ Span: 1.5 MHz Date: 4.JAN.2024 09:24:11
High-1Mbps	 Ref: 20 dBm *Att: 30 dB *RBW: 3 kHz *VBW: 10 kHz *SWT: 170 ms *Marker 1 [T1]: -5.71 dBm *Center: 2.479896000 GHz Center: 2.48 GHz 150 kHz/ Span: 1.5 MHz Date: 4.JAN.2024 09:22:39

Low-2Mbps

Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 340 ms Marker 1 [T1] -10.26 dBm 2.402510000 GHz

Middle-2Mbps

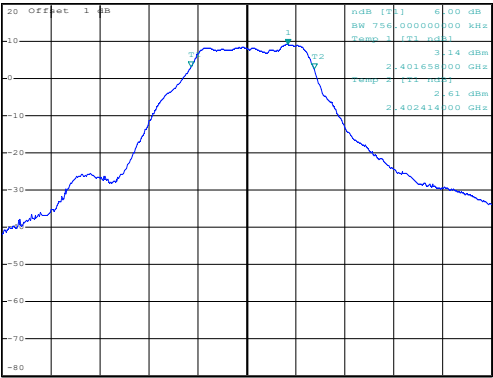
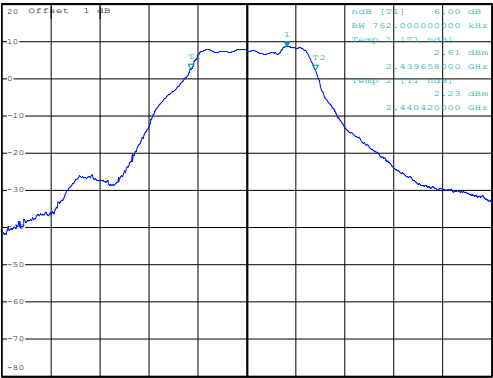
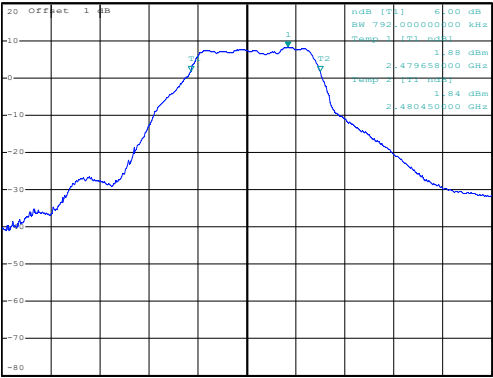
Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 340 ms Marker 1 [T1] -11.55 dBm 2.440510000 GHz

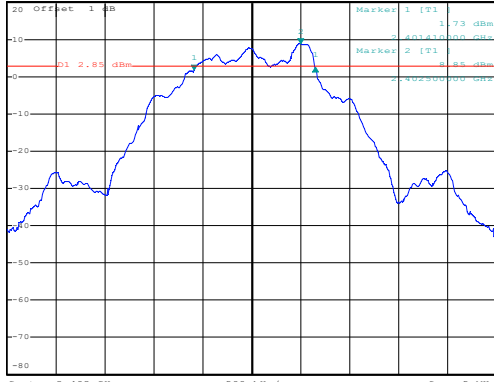
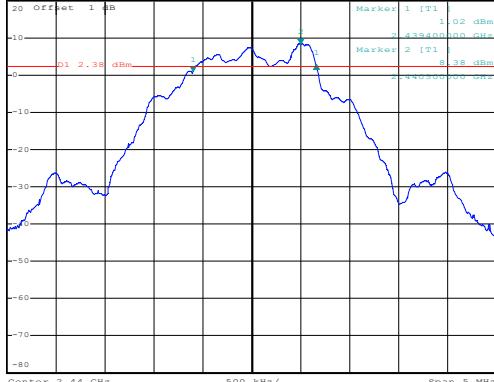
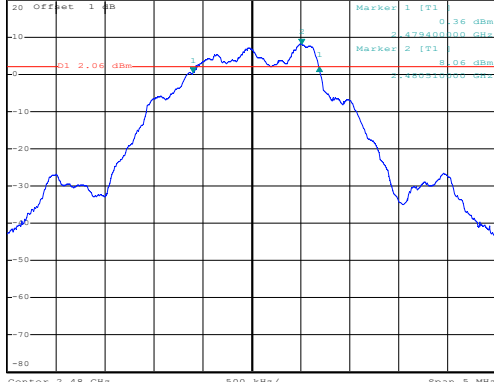
High-2Mbps

Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 340 ms Marker 1 [T1] -11.36 dBm 2.480480000 GHz

APPENDIX B

Test Mode	Test Channel	6 dB Bandwidth kHz	Limit kHz
BLE-GFSK-1Mbps	Low	756	≥500
	Middle	762	≥500
	High	792	≥500
BLE-GFSK-2Mbps	Low	1240	≥500
	Middle	1260	≥500
	High	1290	≥500

Low-1Mbps	 Ref: 20 dBm *Att: 30 dB RBW 100 kHz Marker 1 [T1] 9.01 dBm VSW 300 kHz 2.402252000 GHz SWT 2.5 ms ndB [T1] 6.00 dB BW 756.000000000 kHz Temp 1 [T1] ndB 3.14 dBm 2.401658000 GHz 2.61 dBm 2.402414000 GHz Center 2.402 GHz 300 kHz/ Span 3 MHz Date: 4.JAN.2024 08:58:20
Middle-1Mbps	 Ref: 20 dBm *Att: 30 dB RBW 100 kHz Marker 1 [T1] 8.58 dBm VSW 300 kHz 2.440246000 GHz SWT 2.5 ms ndB [T1] 6.00 dB BW 762.000000000 kHz Temp 1 [T1] ndB 2.61 dBm 2.439658000 GHz 2.23 dBm 2.440420000 GHz Center 2.44 GHz 300 kHz/ Span 3 MHz Date: 4.JAN.2024 08:59:14
High-1Mbps	 Ref: 20 dBm *Att: 30 dB RBW 100 kHz Marker 1 [T1] 8.21 dBm VSW 300 kHz 2.480253000 GHz SWT 2.5 ms ndB [T1] 6.00 dB BW 792.000000000 kHz Temp 1 [T1] ndB 1.88 dBm 2.479658000 GHz 1.84 dBm 2.480450000 GHz Center 2.48 GHz 300 kHz/ Span 3 MHz Date: 4.JAN.2024 09:00:24

Low-2Mbps	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] 0.83 dB •VSW 300 kHz SWT 2.5 ms 1.240000000 MHz Marker 1 [T1] 1.73 dBm Marker 2 [T1] 2.85 dBm Center 2.402 GHz 500 kHz/ Span 5 MHz Date: 4.JAN.2024 09:44:44
Middle-2Mbps	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] 1.88 dB •VSW 300 kHz SWT 2.5 ms 1.260000000 MHz Marker 1 [T1] 1.02 dBm Marker 2 [T1] 2.38 dBm Center 2.44 GHz 500 kHz/ Span 5 MHz Date: 4.JAN.2024 09:45:40
High-2Mbps	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] 1.75 dB •VSW 300 kHz SWT 2.5 ms 1.290000000 MHz Marker 1 [T1] 0.36 dBm Marker 2 [T1] 2.06 dBm Center 2.48 GHz 500 kHz/ Span 5 MHz Date: 4.JAN.2024 09:46:28

APPENDIX C

RF Output Power						
Modulation type	Channel	Output power (dBm)	Limit (dBm)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Result
GFSK-1Mbps	Low	2.59	30.00	2.01	<=36.02	Pass
	Middle	2.40		1.82		
	High	2.37		1.79		
GFSK-2Mbps	Low	2.33		1.75		
	Middle	2.21		1.63		
	High	2.08		1.50		
Note1: Antenna Gain: -0.58dBi; Note2: E.I.R.P = Measured Power + Antenna Gain						

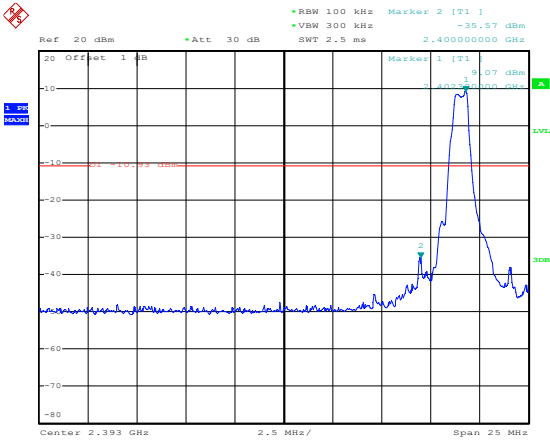
Low-1Mbps	Date: 26.APR.2024 16:11:32
Middle-1Mbps	Date: 26.APR.2024 16:12:34
High-1Mbps	Date: 26.APR.2024 16:12:49

Low-2Mbps	Date: 26.APR.2024 16:50:41
Middle-2Mbps	Date: 26.APR.2024 16:51:09
High-2Mbps	Date: 26.APR.2024 16:51:26

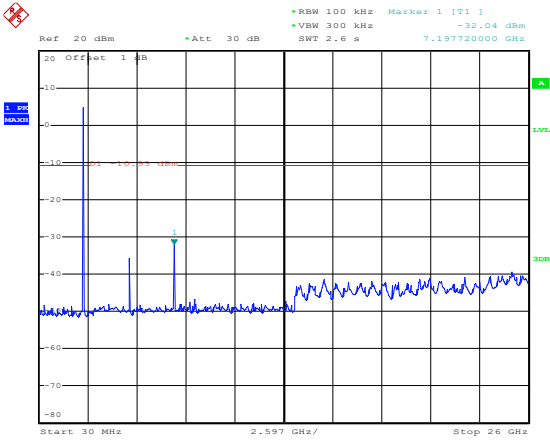
APPENDIX D

Conducted Out of Band Emissions

Low-1Mbps

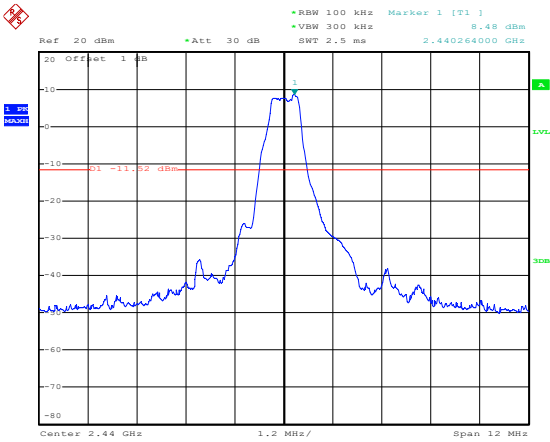


Date: 4.JAN.2024 09:28:04

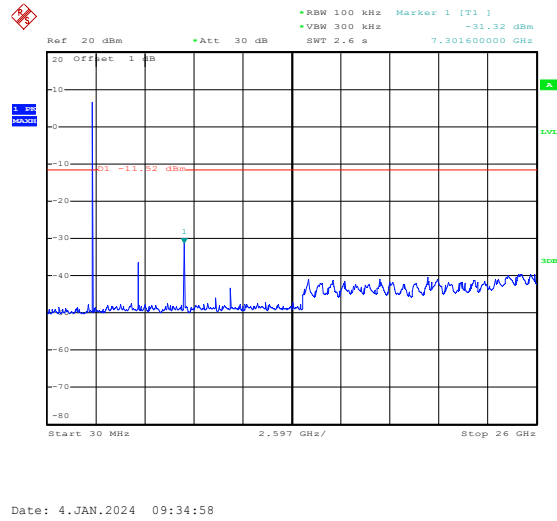


Date: 4.JAN.2024 09:30:51

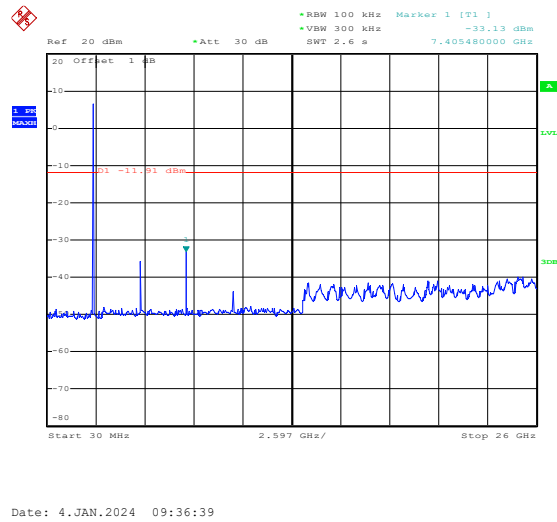
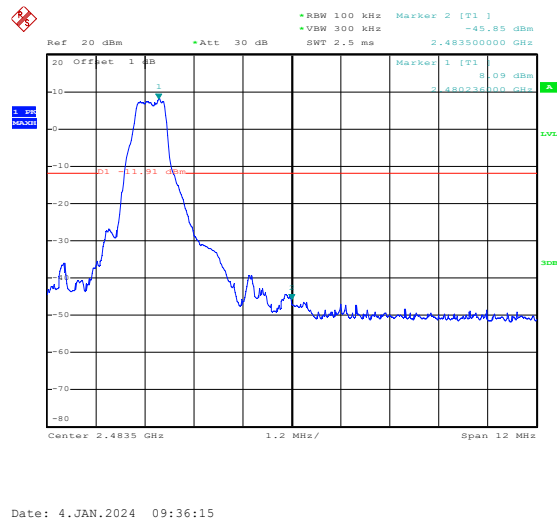
Middle-1Mbps



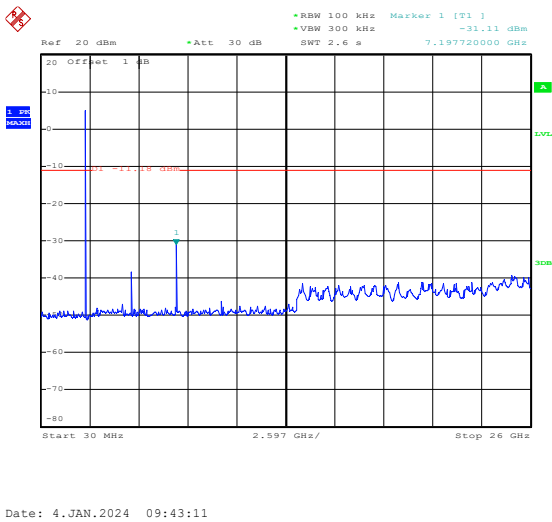
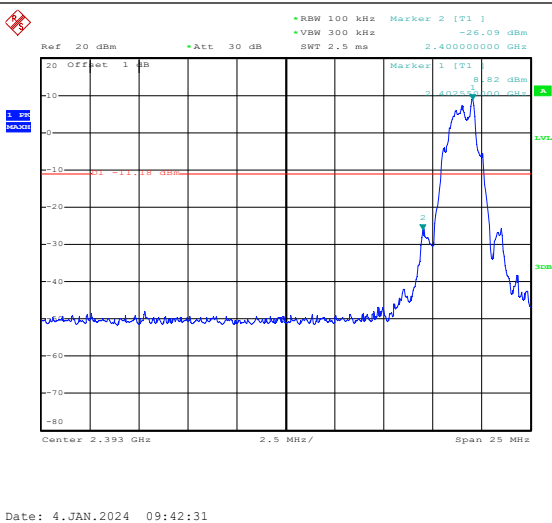
Date: 4.JAN.2024 09:33:50



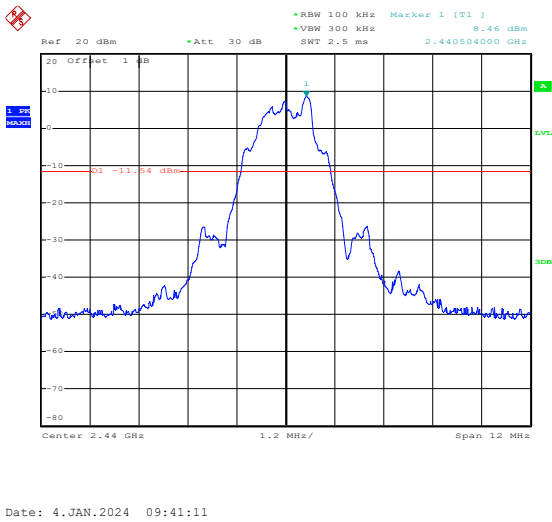
High-1Mbps

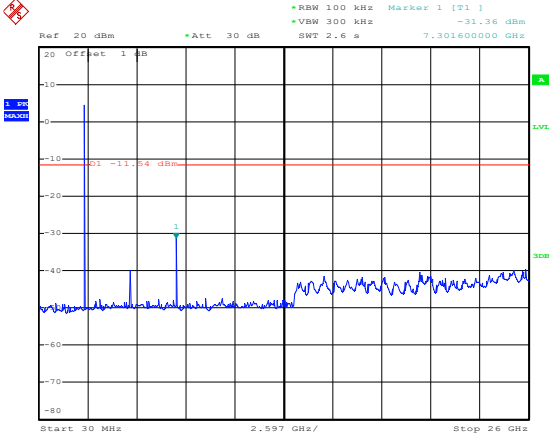
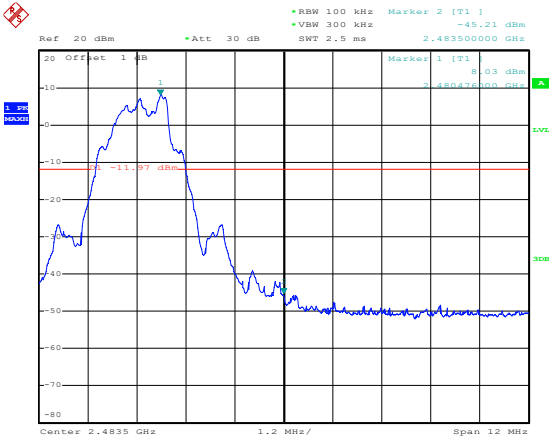
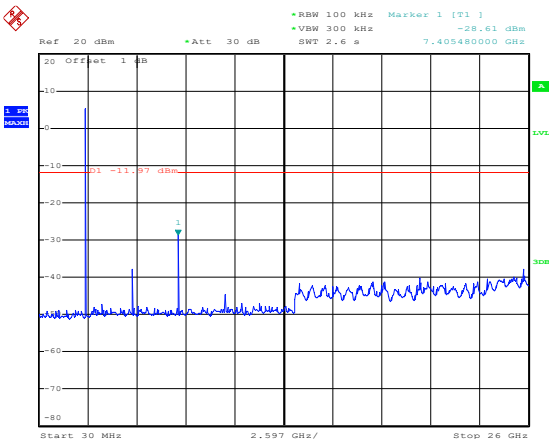


Low-2Mbps



Middle-2Mbps



	 Ref 20 dBm Att 30 dB Marker 1 [T1] -31.36 dBm 7.30160000 GHz Start 30 MHz 2.597 GHz/ Stop 26 GHz Date: 4.JAN.2024 09:41:31
High-2Mbps	 Ref 20 dBm Att 30 dB Marker 2 [T1] -45.21 dBm 2.48350000 GHz Center 2.4835 GHz 1.2 MHz/ Span 12 MHz Date: 4.JAN.2024 09:40:07
	 Ref 20 dBm Att 30 dB Marker 1 [T1] -28.61 dBm 7.405480000 GHz Start 30 MHz 2.597 GHz/ Stop 26 GHz Date: 4.JAN.2024 09:40:35

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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