



시험 성적서

TEST REPORT

페이지(page) : (1) / (총(Total) 46)

성적서 번호 Report No.		ICRT-TR-E202497-0A	
신청자 Client	기관명 Name	Comosia Co.,Ltd	
	주 소 Address	#504-1, Business Incubator, 545, Seobu-ro, Uijeongbu-si, Gyeonggi-do, 11618, Korea	
시험대상품목 Sample description		BLE Module	
모델명 Type designation		COMO-N832C	
정 격 Ratings		DC 3.0 V	
시험장소 Place of test		☒ 고정시험(Inside test) ☐ 현장시험(Field test) 주소지(Address): 112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		17. Sep. 2020 ~ 21. Sep. 2020	
시험방법/항목 Test Method/Item		FCC Part 15 Subpart C §15.247	
시험결과 Test Results		Refer to 3. Test Summary	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성 명 Name	In- Jung, Kim (Signature)	성 명 Name
		Hong-Kyu, Lee (Signature)	
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2020. 09. 25 주식회사 아이씨알 대표이사 The head of INTERNATIONAL CERTIFICATION REGISTRAR			

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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E202497-0A	25-Sep-2020	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	Comosia Co.,Ltd
Address	#504-1, Business Incubator, 545, Seobu-ro, Uijeongbu-si, Gyeonggi-do, 11618, Korea
Contact Person	Junmo Kwon
Telephone No.	+82-070-7949-8907
Fax No.	+82 070-7949-8907
E-mail	como@comosia.com

1.2 Manufacturer Information

Manufacturer	Comosia Co.,Ltd
Address	#504-1, Business Incubator, 545, Seobu-ro, Uijeongbu-si, Gyeonggi-do, 11618, Korea

1.3 Test Laboratory Information

Conducted tests were performed at	
Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
RRA No.	KR0165
KOLAS No.	KT652
Test Firm Registration Number	490614



2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	BLE Module
Brand Name	-
Model Name	COMO-N832C
Additional Model Name	COMO-N832CA
FCC ID	2AXON-COMO-N832C
Hardware Version	1.4
Software Version	1.0
Power Supply	DC 3.0 V
EUT Firmware Version	1.0
Target Power	4.0
EUT Serial Number	Test 1

2.2 Additional Information

Equipment Class	DTS-Digital Transmission System	
Device Type	Stand-alone	
Operating Frequency	2 402 MHz ~ 2 480 MHz	
RF Output Power	Bluetooth LE (1 Mbps)	-2.89 dBm
	Bluetooth LE (2 Mbps)	-2.65 dBm
Number of Channel	40	
Modulation Type	GFSK	
Antenna Type	Basic Model	Dipole Antenna
	Additional Model	Chip Antenna
Antenna Gain	Basic Model	4.97 dBi
	Additional Model	1.90 dBi
Antenna Operating Mode	Single Antenna Equipment with only one antenna	
List of Each Oscillator or Crystal Frequency	32 MHz / 32.768 kHz	

2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test with set at Low Channel, Middle Channel, and High Channel. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, YZ, XZ planes.



2.4 Modifications of EUT

- None

2.5 Reason of Additional Model Name

- The reason is to use the chip antenna without circuit change and the antenna gain is lower than the base model.

2.6 Difference Configuration Statement

- The difference between the two EUT is only the configuration of antenna and antenna gain.
There are more than one Configure, each one should be applied throughout the compliance test respectively, but the worst case (COMO-N832C) was recorded for the conduction and radiated items.



3. Test Summary

3.1 Test standards and results

FCC Part 15 Subpart C			
Clause	Test items	Applied	Results
§15.247 (a) (2)	6 dB Bandwidth	☒	PASS
§15.247 (b) (3)	Maximum Conducted Output Power	☒	PASS
§15.247 (e)	Power Spectral Density	☒	PASS
§15.247 (d)	Conducted Spurious Emission	☒	PASS
§15.247 (d) & §15.209 & §15.205	Radiated Spurious Emission	☒	PASS
§15.207	Power Line Conducted Emission	☒	PASS
§15.203	Antenna Requirement	☒	PASS

3.2 Purpose of the test

- To determine whether the equipment under test fulfills the requirements of the standards stated in FCC Part 15 Subpart C Section 15.247.

3.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013.

Radiated testing was performed at a distance of 3 m from EUT to the antenna.

3.4 Configuration of Test System

3.4.1 Radiated emission test

Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber. The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.



3.5 Antenna requirement

According to §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.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.

Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.5.1 Result: Pass

The Basic model transmitter has a **Dipole Antenna**. The directional gain of the antenna is **4.97 dBi**.

The Additional model transmitter has a **Chip Antenna**. The directional gain of the antenna is **1.90 dBi**.



4. Used equipment on test

	Description	Model Name	Serial Number	Manufacturer	Next Cal. (cycle)
☐	Spectrum analyzer	FSW85	100864	Rohde & Schwarz	2021. 03. 02 (1Y)
☒	Spectrum analyzer	FSV40	101455	Rohde & Schwarz	2021 .06. 24 (1Y)
☒	Signal Generator	SMB100A	180607	Rohde & Schwarz	2021. 03. 03 (1Y)
☐	Wideband Power Sensor	NRP-Z81	103673	Rohde & Schwarz	2021. 03. 03 (1Y)
☐	Open Switch and Control Platform	OSP150	101000	Rohde & Schwarz	2021. 03. 03 (1Y)
☐	Environmental Test Chamber	MHK-408NKDA	1060908	TERCHY	2021. 03. 03 (1Y)
☒	DC Power Supply	XDL 35-5P	J00385373	Sorensen	2021. 03. 02 (1Y)
☐	DC Power Supply	6603D	672483	Topward	2021. 03. 02 (1Y)
☒	Loop Antenna	HFH2-Z2	100506	Rohde & Schwarz	2021. 06. 27 (2Y)
☒	TRILOG BROADBAND ANTENNA	VULB9162	120	SCHWARZBECK	2020. 11. 23 (2Y)
☒	RF Pre Amplifier	SCU08	100747	Rohde & Schwarz	2021. 04. 16 (1Y)
☒	DOUBLE-RIDGE WAVEGUIDE HORN ANTENNA	HF907	102556	Rohde & Schwarz	2021. 08. 19 (2Y)
☒	RF Pre Amplifier	SCU18	102342	Rohde & Schwarz	2021. 04. 16 (1Y)
☒	Horn Antenna	LB-42-10-C-KF	J202024625	AINFO Inc.	2021. 03. 10 (2Y)
☒	RF Pre Amplifier	AMF-4F-18265-35-8P-1	771846	MITEQ	2021. 03. 04 (1Y)
☐	Horn Antenna	LB-28-10-C-KF	J202024627	AINFO Inc.	2021. 03. 10 (2Y)
☐	RF Pre Amplifier	AMF-4D-260400-45-6P	779919	MITEQ	2021. 03. 03 (1Y)
☒	EMI Test Receiver	ESR26	101461	Rohde & Schwarz	2021. 04. 16 (1Y)
☒	EMI Test Receiver	ESR26	101462	Rohde & Schwarz	2021. 04. 16 (1Y)
☐	LISN	ENV216	102194	Rohde & Schwarz	2021. 04. 16 (1Y)
☐	EMI Test Receiver	ESR3	102119	Rohde & Schwarz	2021. 04. 16 (1Y)
☒	RF Cable	MULTIFLEX_86	-	HUBER & SUHNER	-
☒	Chamber Cable	mw221	-	Junkosha	-

※ All test equipment used is calibration on a regular basis.



5. 6 dB Bandwidth

5.1 Operating environment

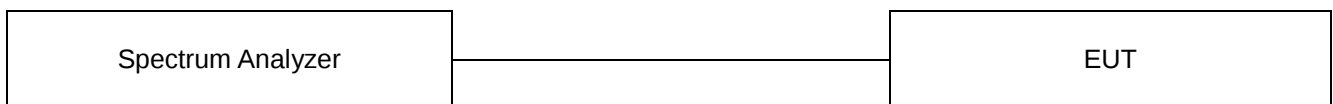
Temperature : 23 °C
Relative humidity : 47 %

5.2 Measurement method

Standard : §15.247 (a) (2)

5.3 Test setup

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.





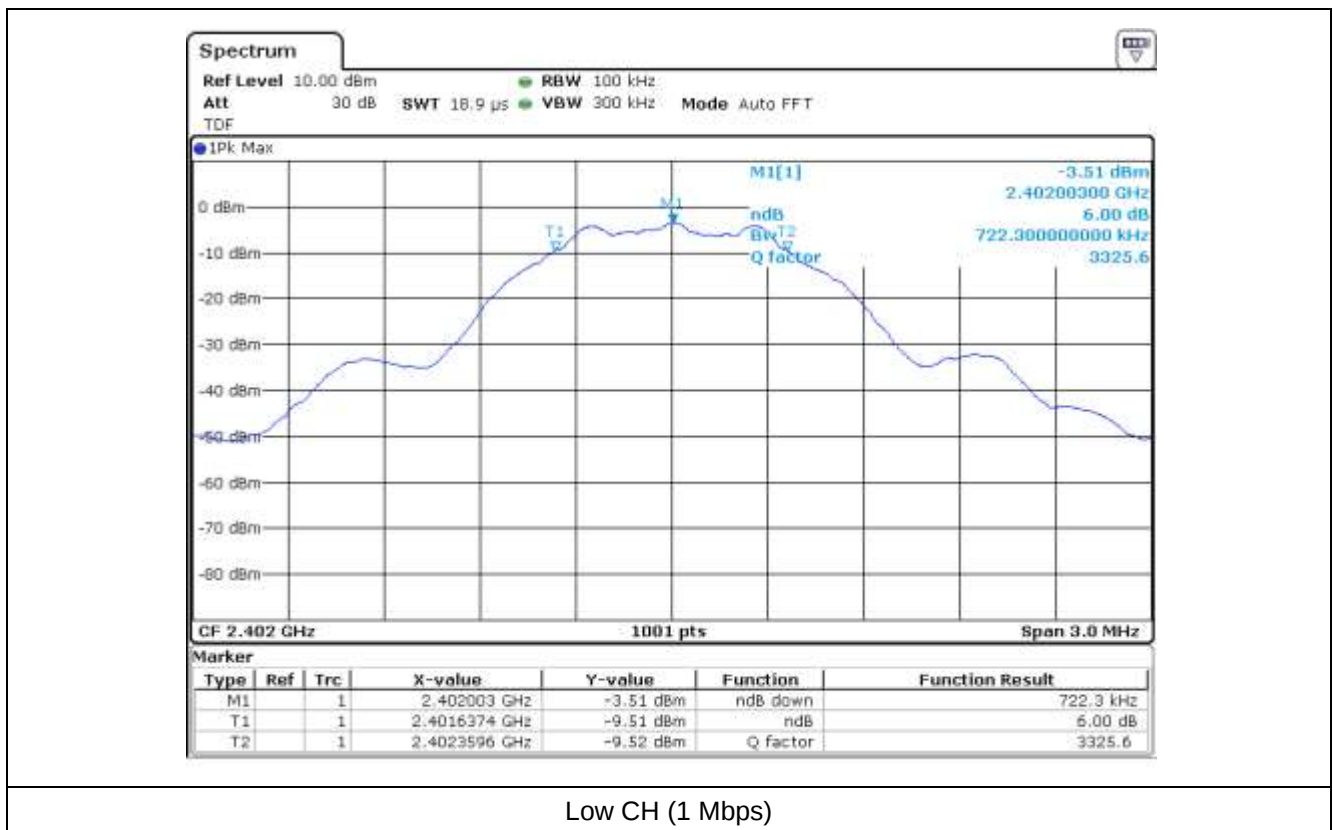
5.4 Test data

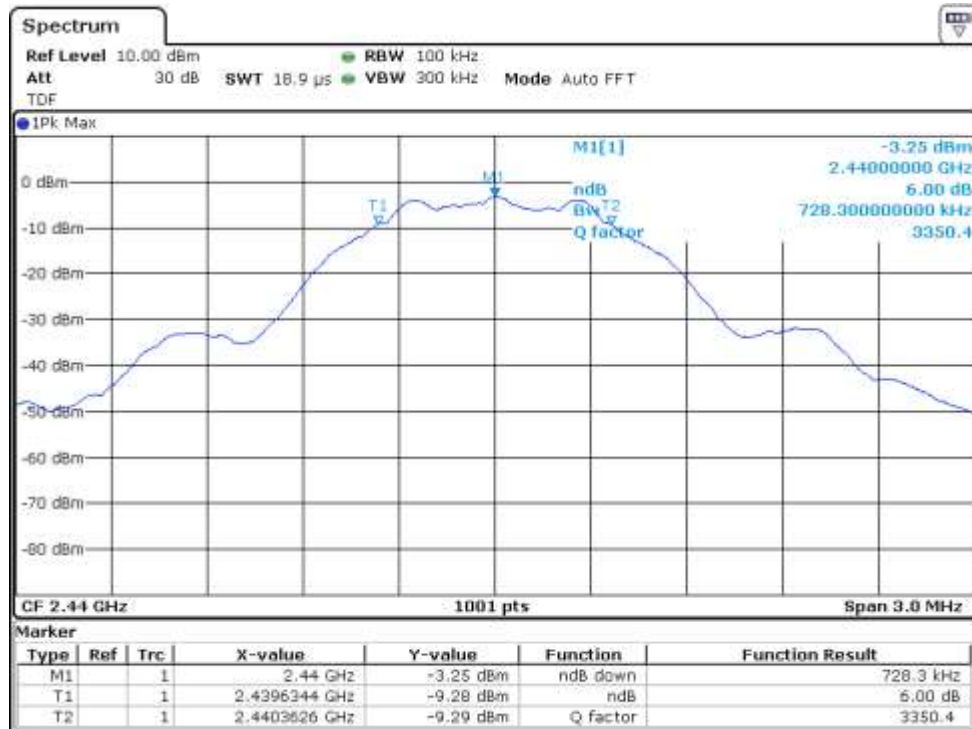
Test date : 17. Sep. 2020
 Operating mode : Transmit mode
 Test Result : Pass

5.4.1 Measured Results

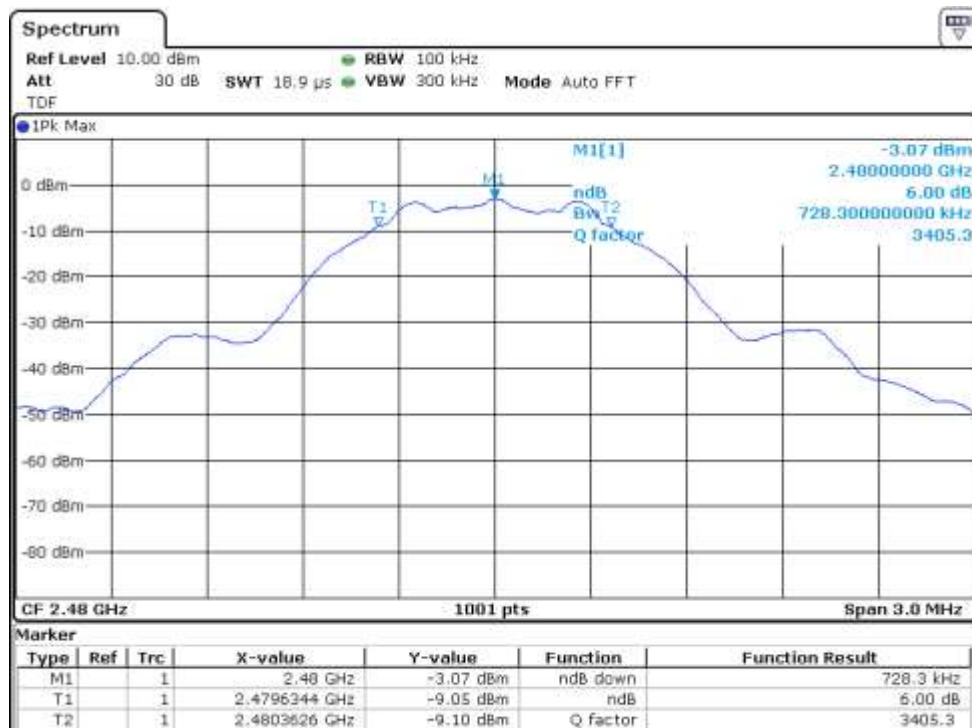
Modulation Type	Channel (Frequency)	Measured Value (kHz)	Limit (kHz)
Bluetooth LE (1 Mbps)	0 (2 402 MHz)	722.3	at least 500
	19 (2 440 MHz)	728.3	
	39 (2 480 MHz)	728.3	
Bluetooth LE (2 Mbps)	0 (2 402 MHz)	1378.6	
	19 (2 440 MHz)	1373.6	
	39 (2 480 MHz)	1363.6	

5.4.2 Measured Graph (6 dB Bandwidth)

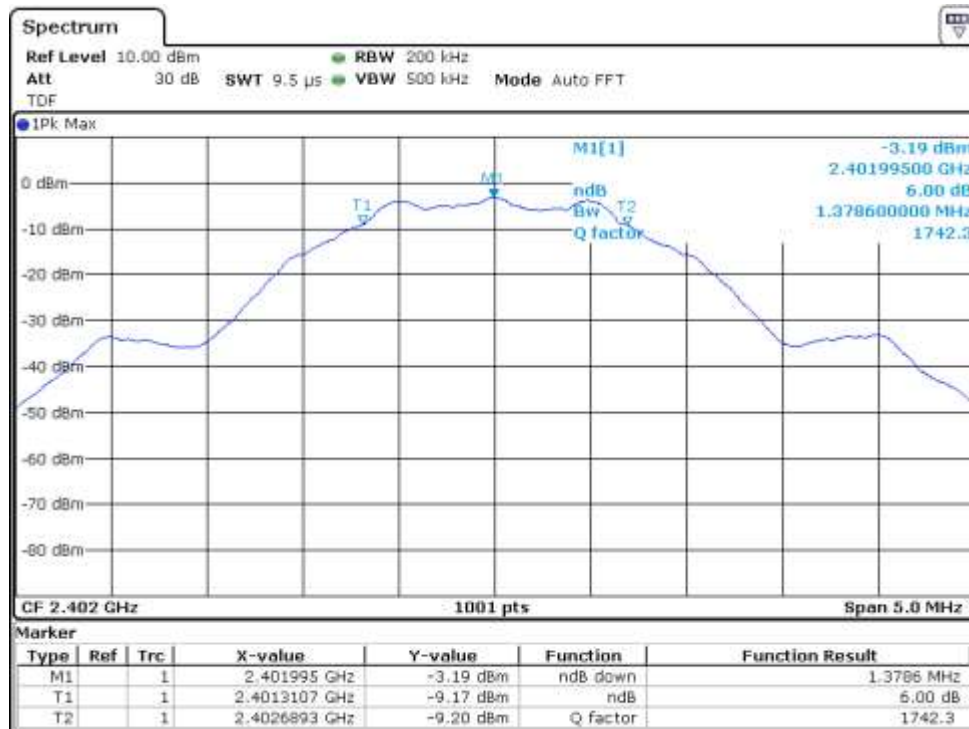




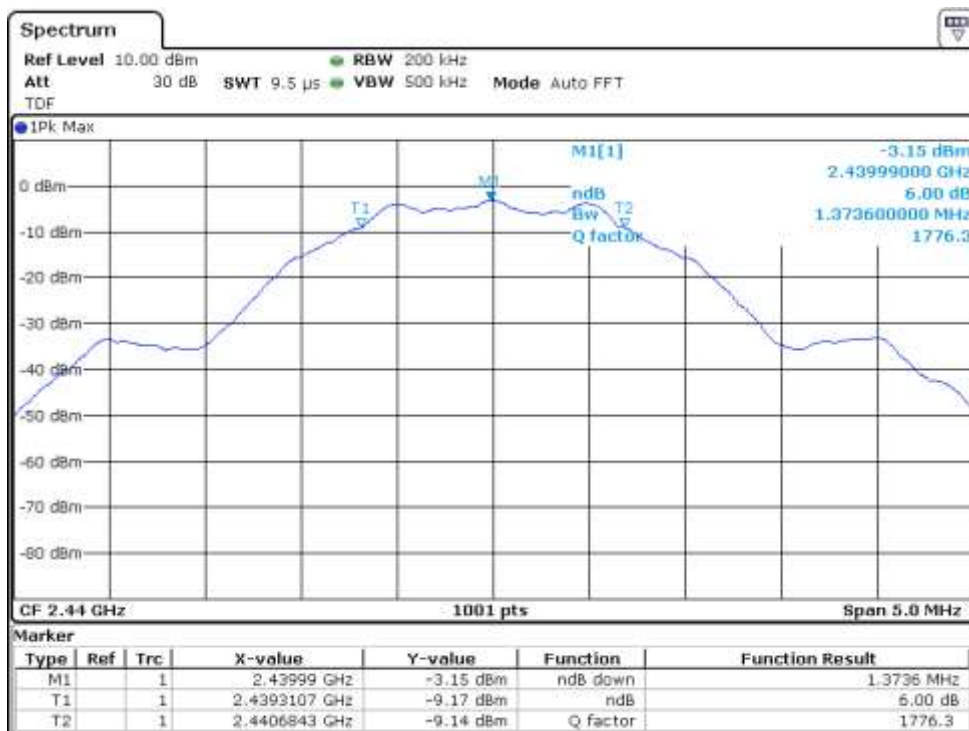
Mid CH (1 Mbps)



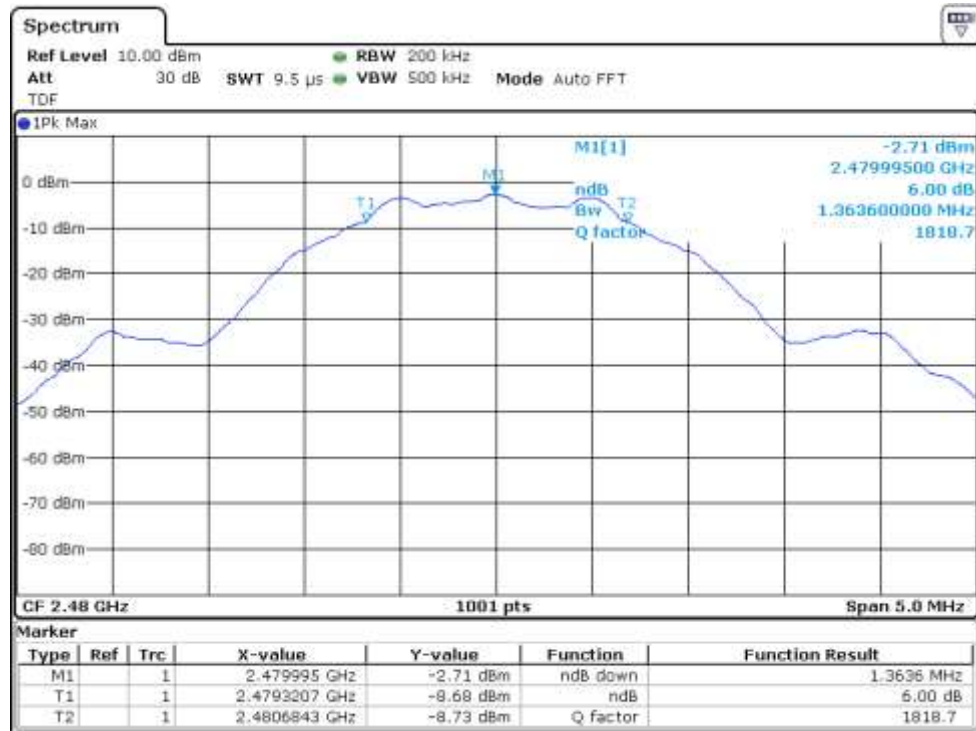
High CH (1 Mbps)



Low CH (2 Mbps)



Mid CH (2 Mbps)



High CH (2 Mbps)



6. Maximum Conducted Output Power

6.1 Operating environment

Temperature : 23 °C

Relative humidity : 47 %

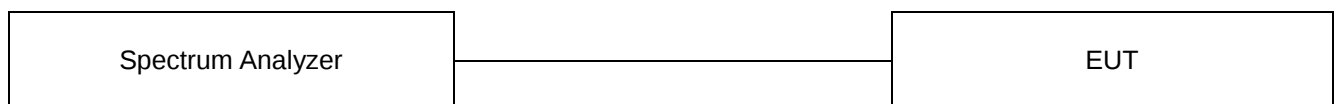
6.2 Measurement method

Standard : §15.247 (b) (3)

6.3 Test setup

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99 % bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.

And e.i.r.p. is added antenna maximum gain with the Maximum Conducted Output Power.





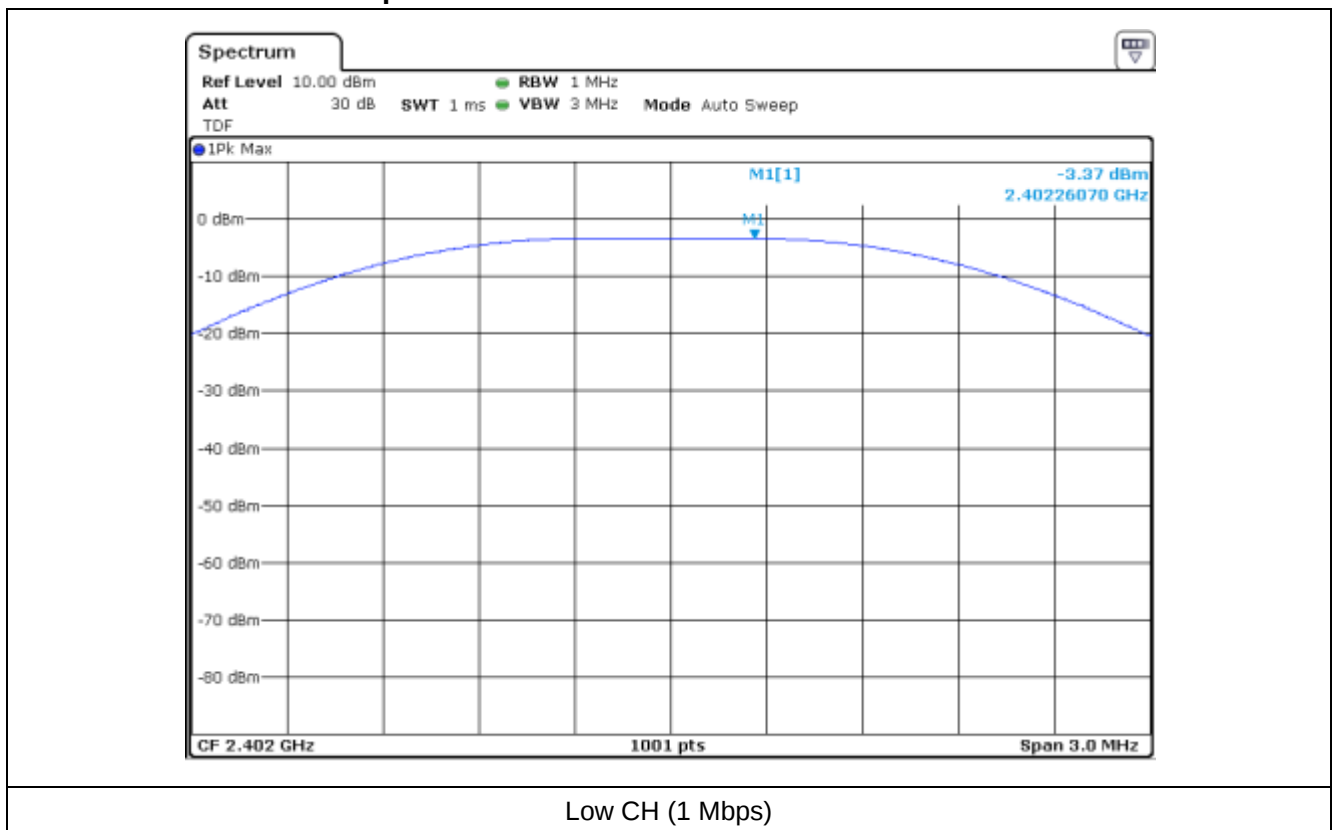
6.4 Test data

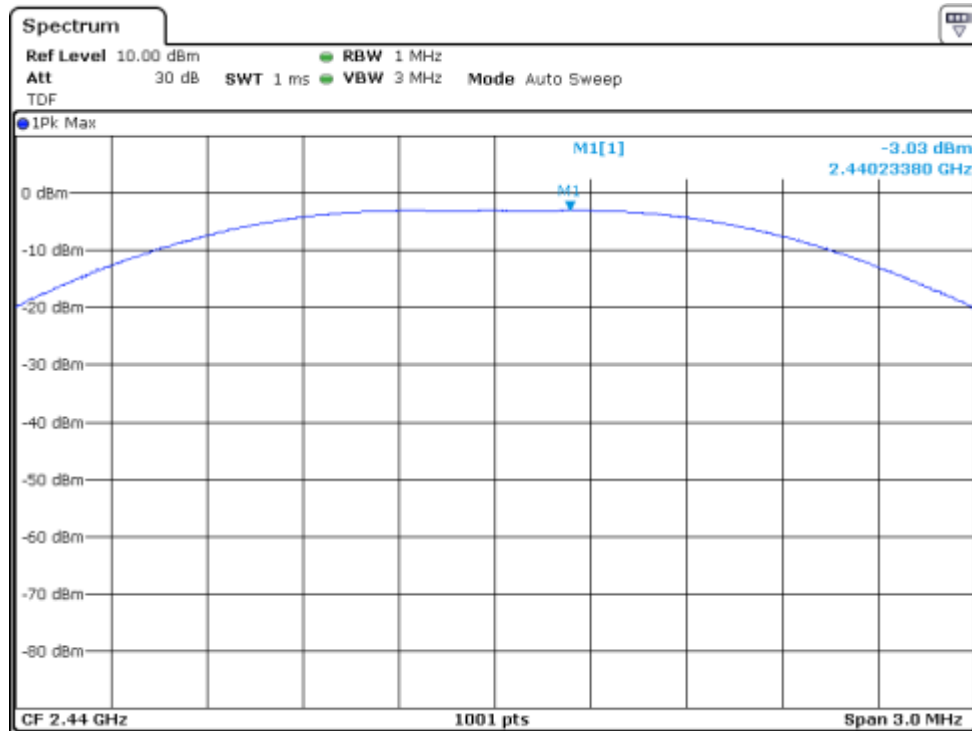
Test date : 17. Sep. 2020
 Operating mode : Transmit mode
 Test Result : Pass

6.4.1 Measured Results

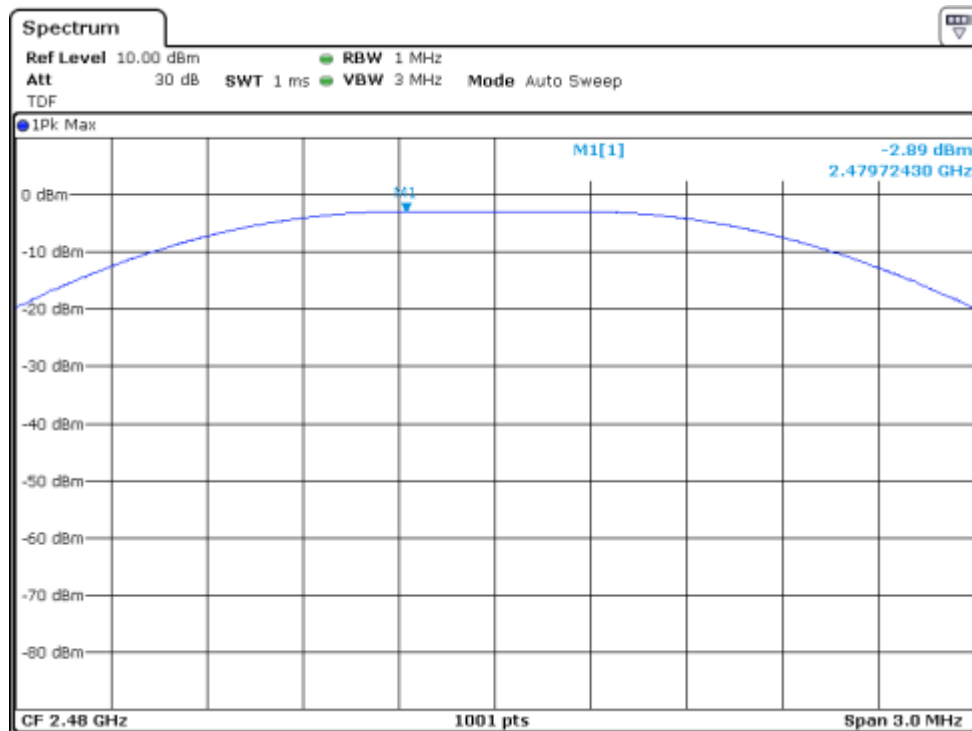
Modulation Type	Channel (Frequency)	Highest signal level (dBm)	Limit (dBm)
Bluetooth LE (1 Mbps)	0 (2 402 MHz)	-3.37	30 (1 Watt)
	19 (2 440 MHz)	-3.03	
	39 (2 480 MHz)	-2.89	
Bluetooth LE (2 Mbps)	0 (2 402 MHz)	-3.11	
	19 (2 440 MHz)	-3.09	
	39 (2 480 MHz)	-2.65	

6.4.2 Measured Graph

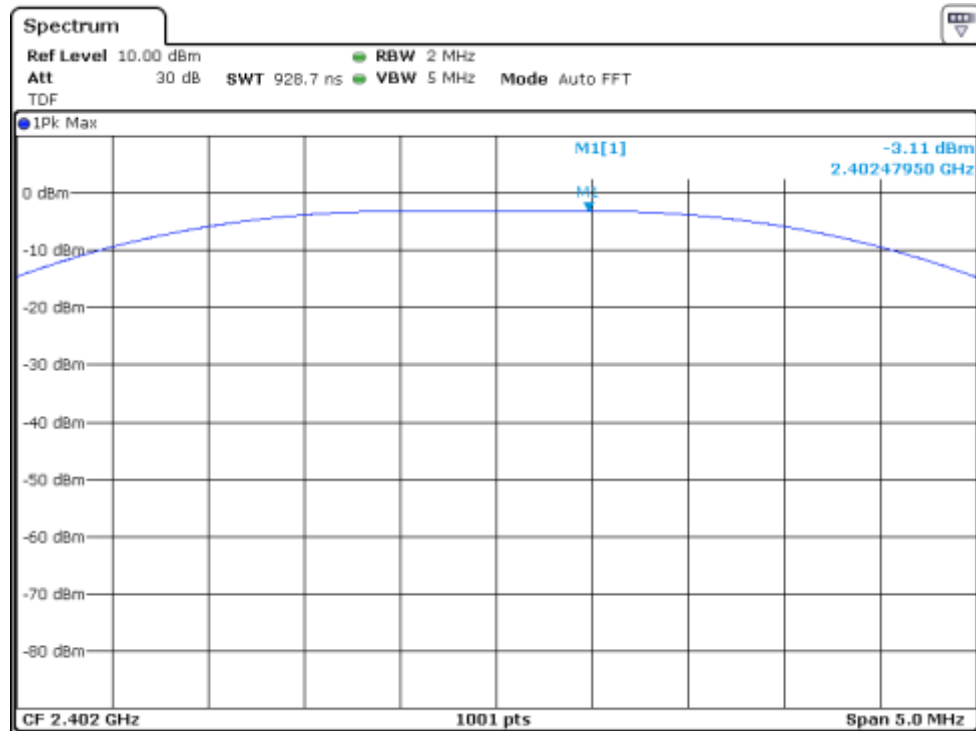




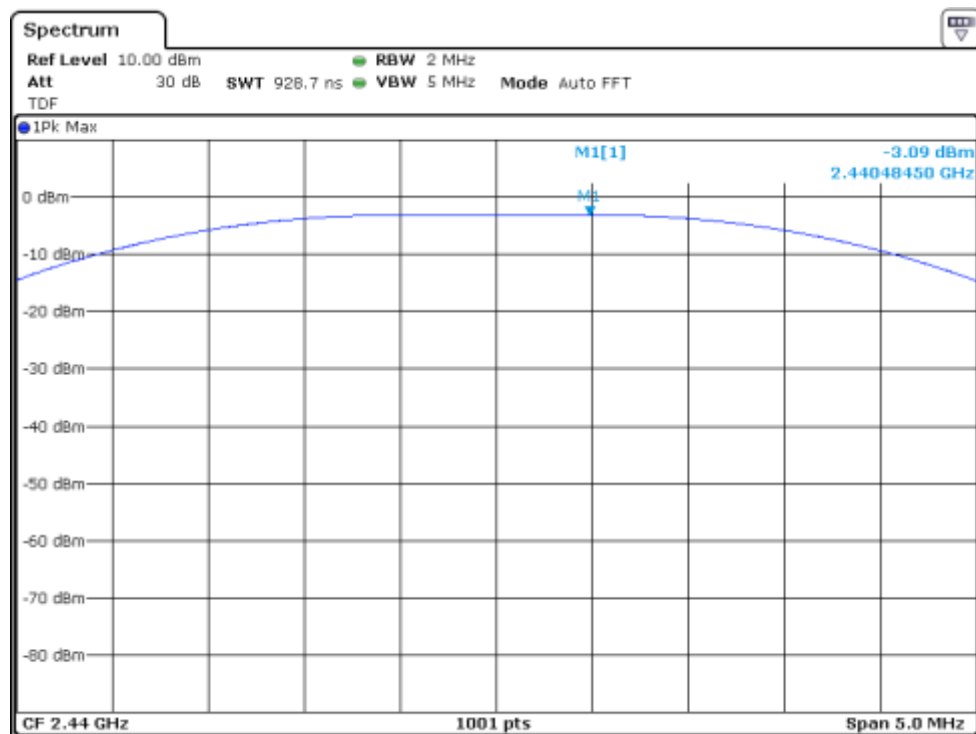
Mid CH (1 Mbps)



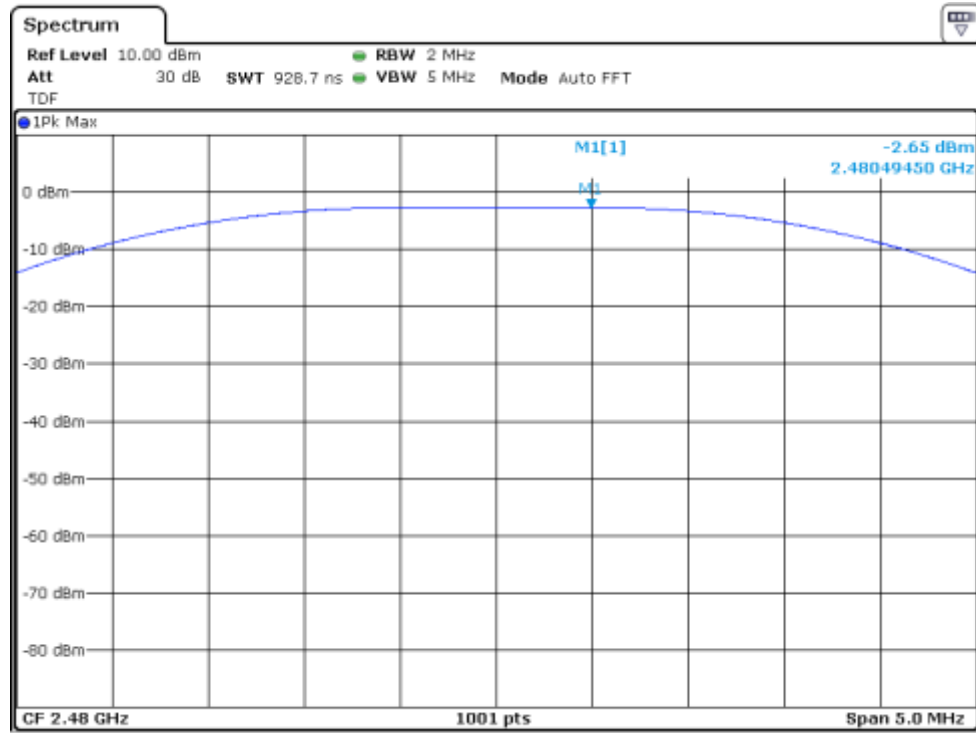
High CH (1 Mbps)



Low CH (2 Mbps)



Mid CH (2 Mbps)



High CH (2 Mbps)



7. Power Spectral Density

7.1 Operating environment

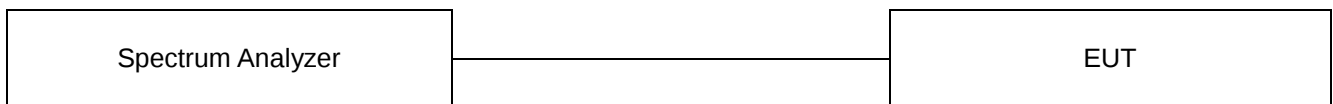
Temperature : 23 °C
Relative humidity : 47 %

7.2 Measurement method

Standard : §15.247 (e)

7.3 Test setup

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 3 kHz, the video bandwidth is set to 3 times the resolution bandwidth.





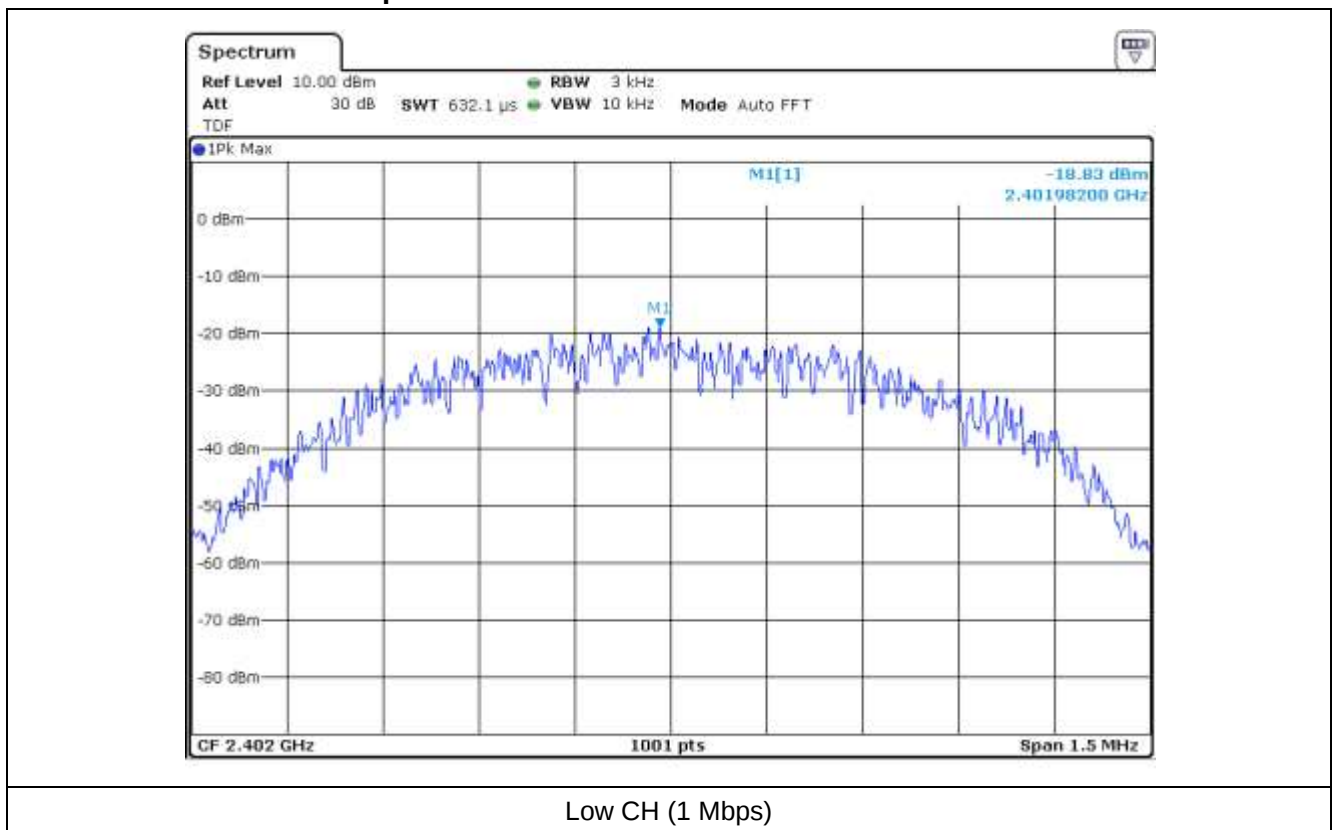
7.4 Test data

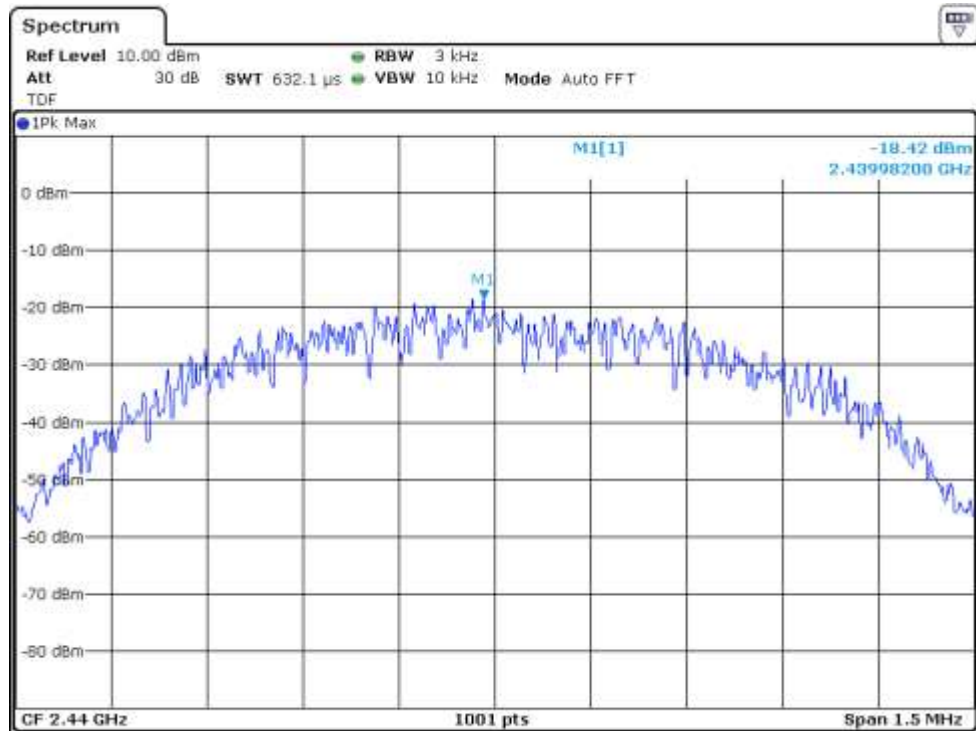
Test date : 17. Sep. 2020
 Operating mode : Transmit mode
 Test Result : Pass

7.4.1 Measured Results

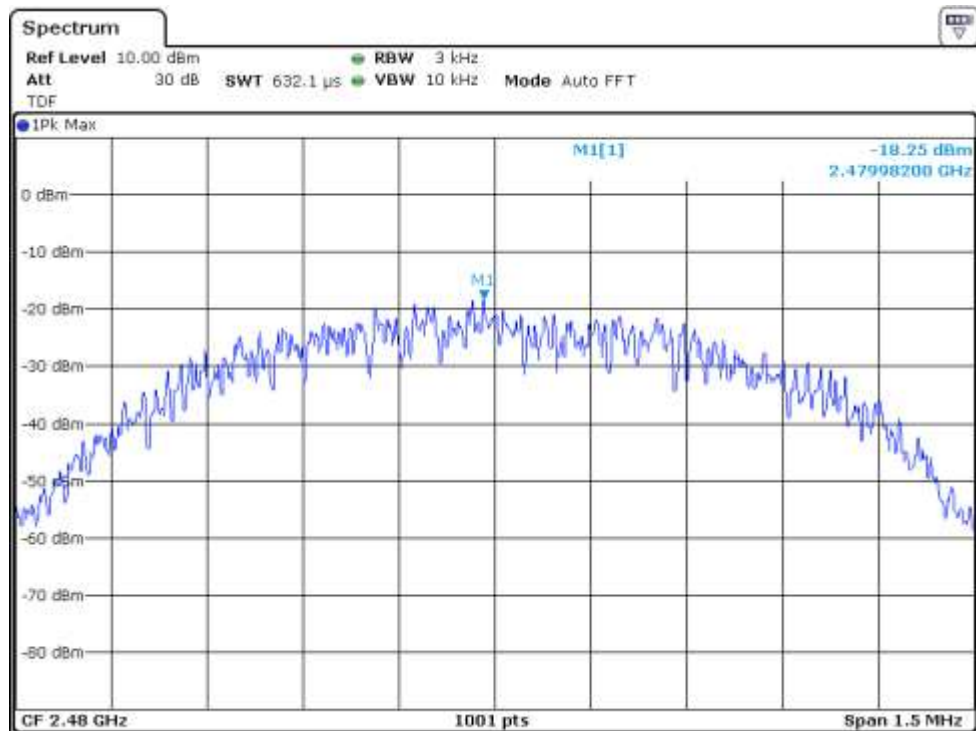
Modulation Type	Channel (Frequency)	Highest signal level (dBm)	Limit (dBm/3kHz)
Bluetooth LE (1 Mbps)	0 (2 402 MHz)	-18.83	8
	19 (2 440 MHz)	-18.42	
	39 (2 480 MHz)	-18.25	
Bluetooth LE (2 Mbps)	0 (2 402 MHz)	-16.46	
	19 (2 440 MHz)	-16.40	
	39 (2 480 MHz)	-16.08	

7.4.2 Measured Graph

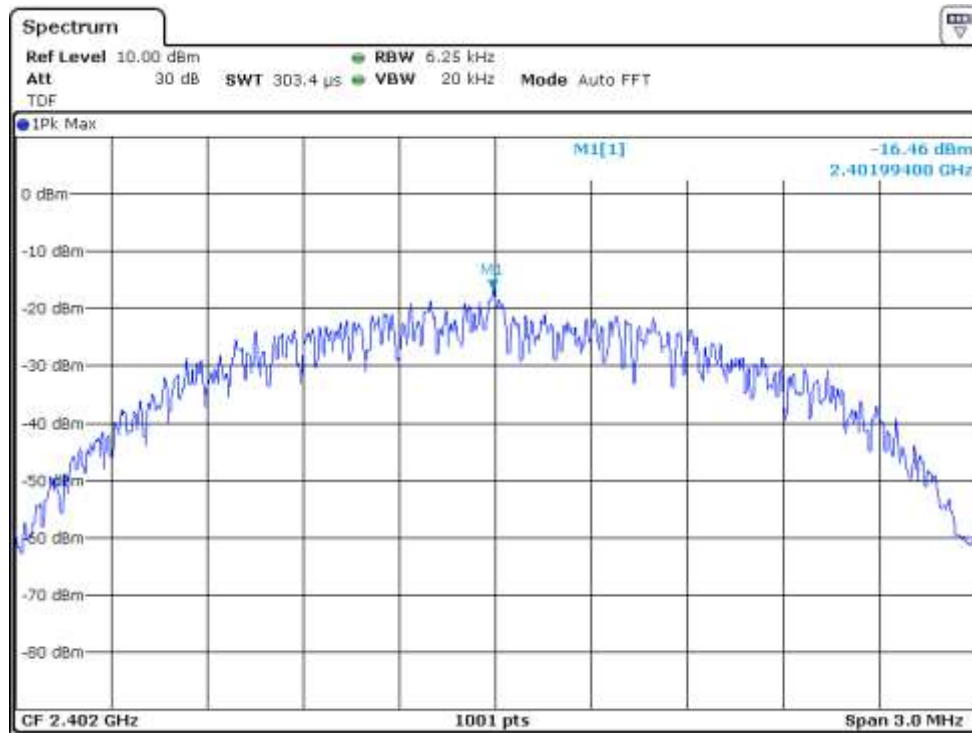




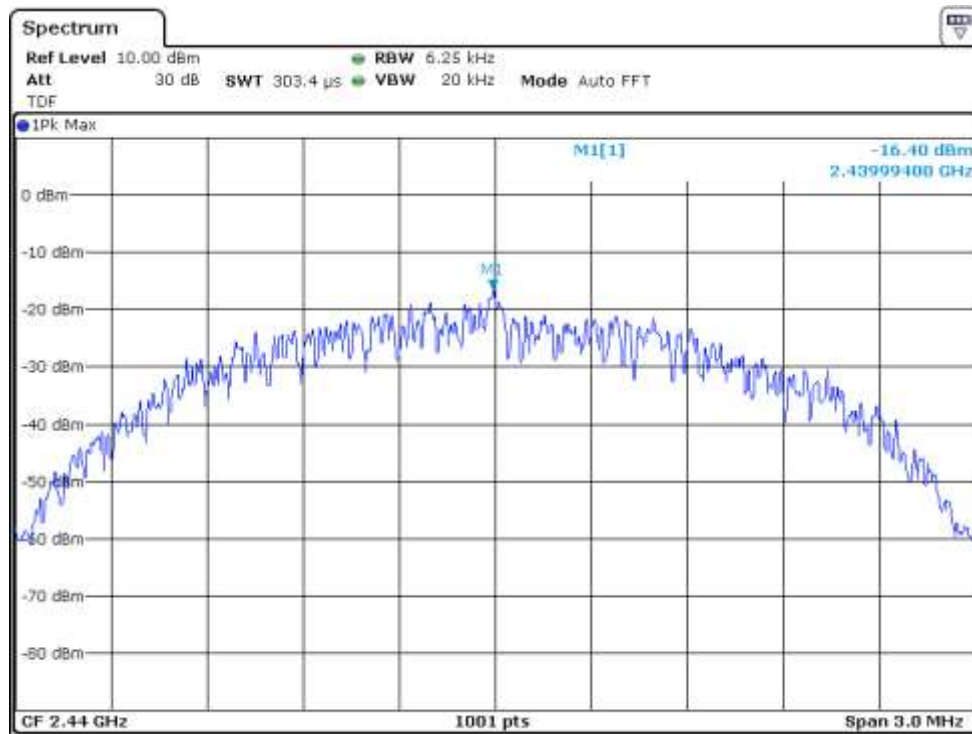
Mid CH (1 Mbps)



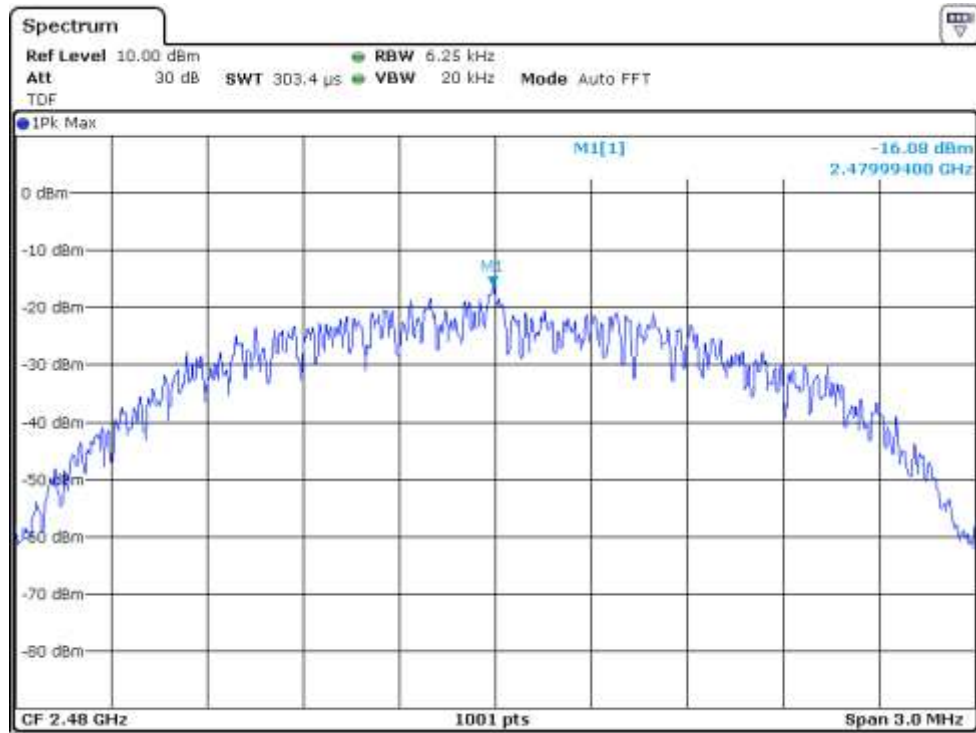
High CH (1 Mbps)



Low CH CH (2 Mbps)



Mid CH (2 Mbps)



High CH (2 Mbps)



8. Conducted Spurious Emission

8.1 Operating environment

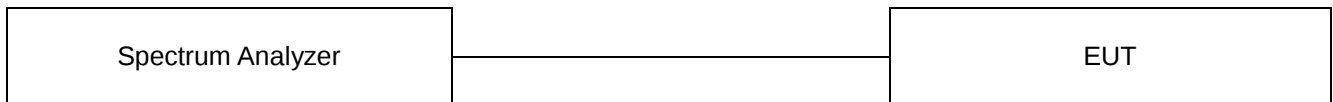
Temperature : 23 °C
Relative humidity : 47 %

8.2 Measurement method

Standard : §15.247 (d)

8.3 Test setup

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



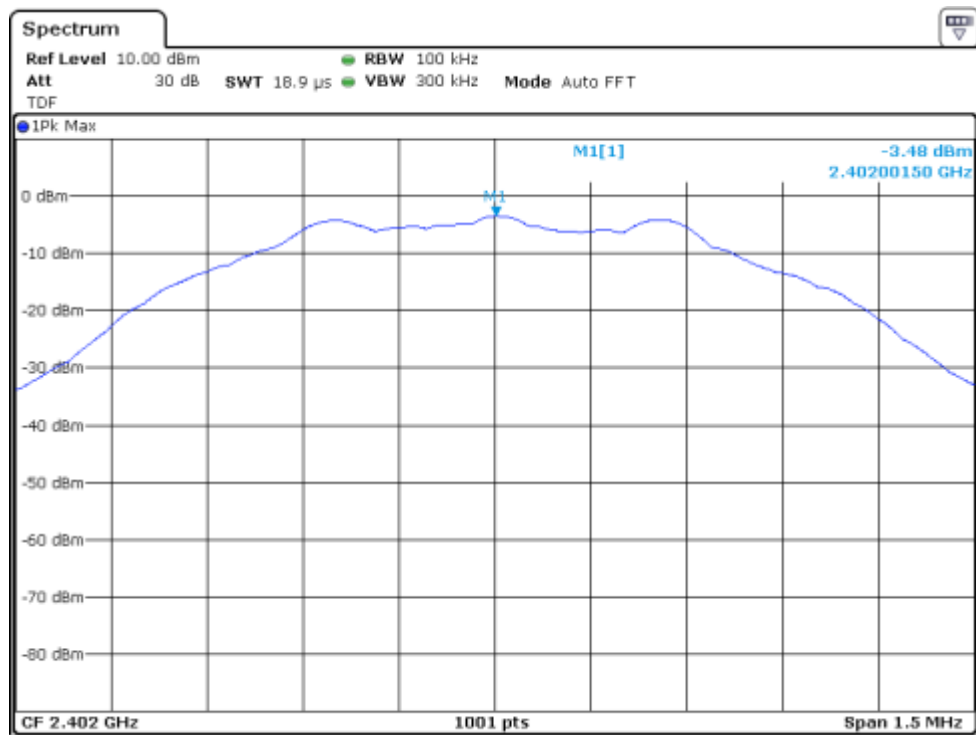


8.4 Test data

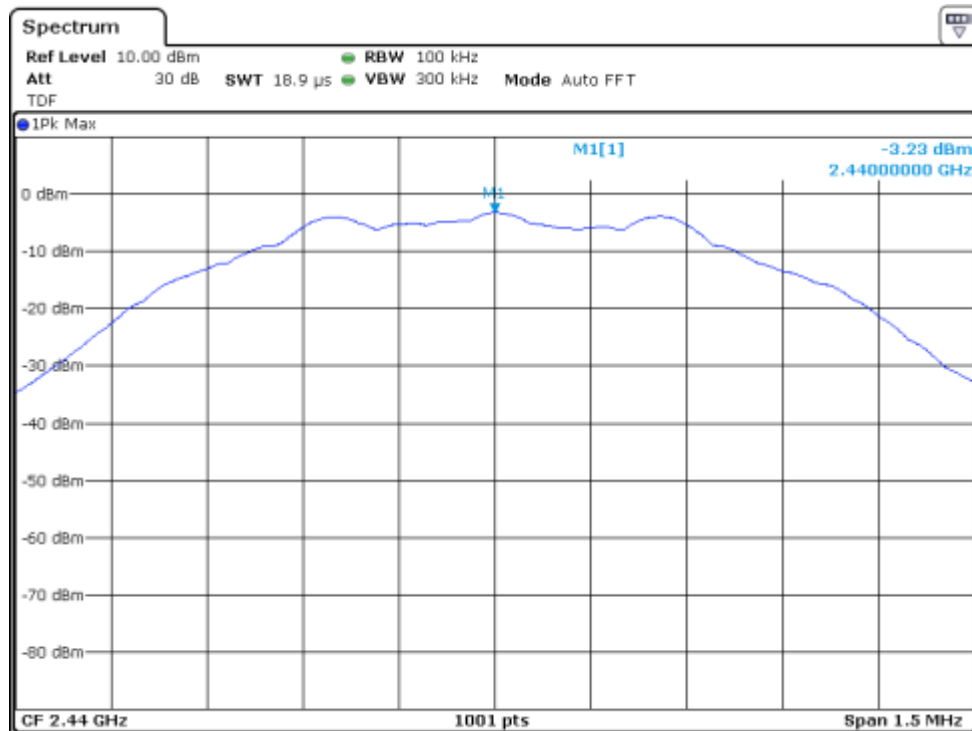
Test date : 17. Sep. 2020
Operating mode : Transmit mode
Test Result : Pass

8.4.1 Measured Results

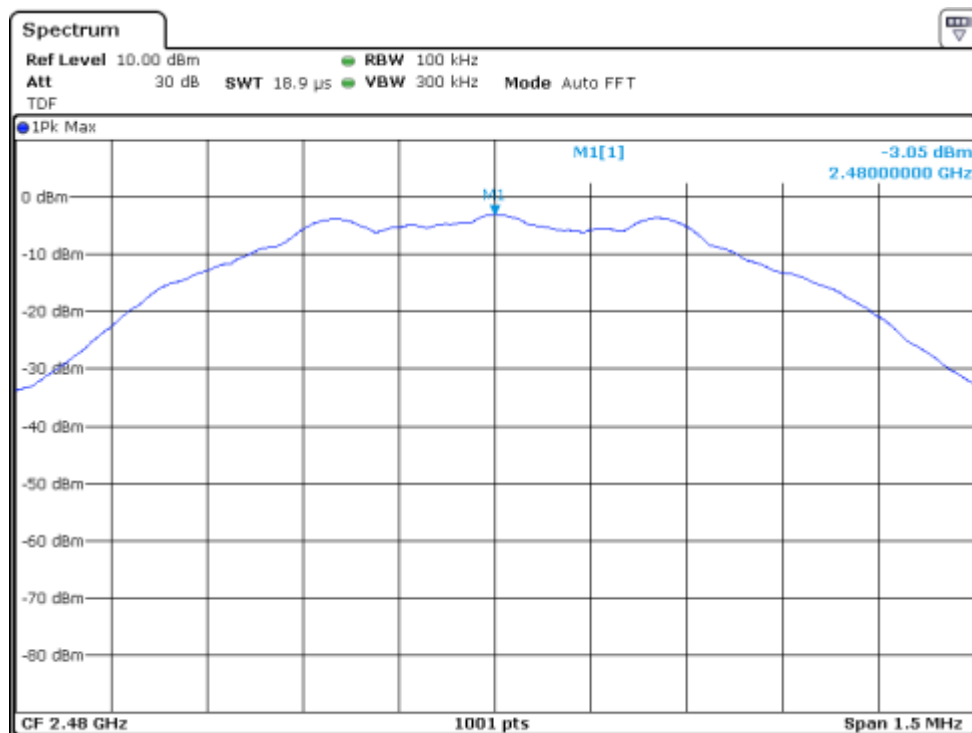
8.4.1.1 Signal level (dB m)



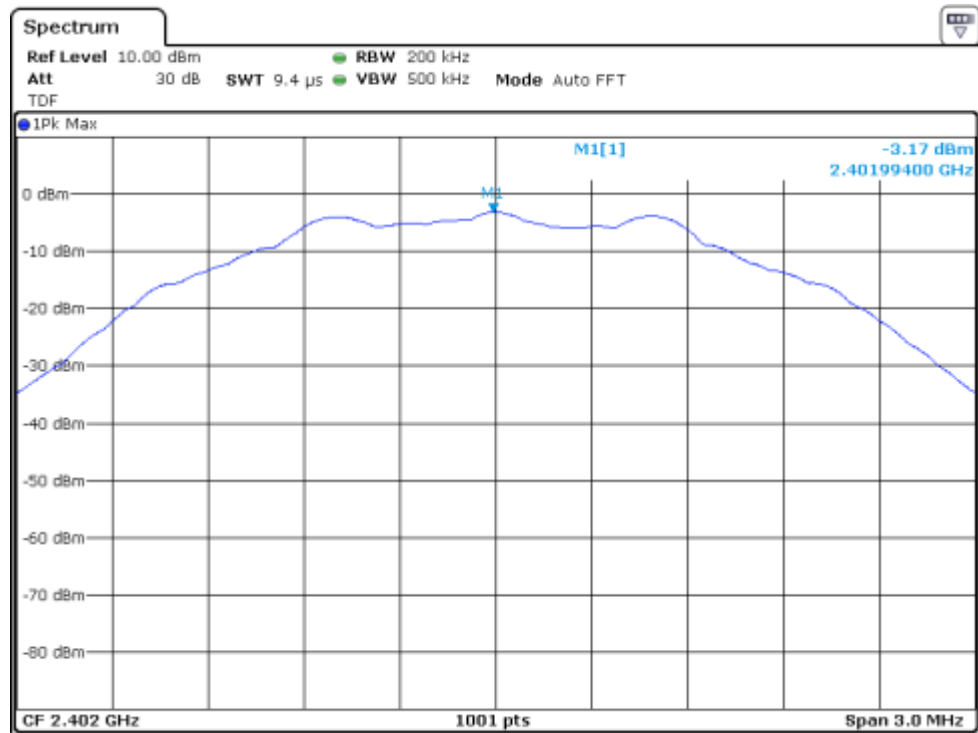
Low CH (1 Mbps)



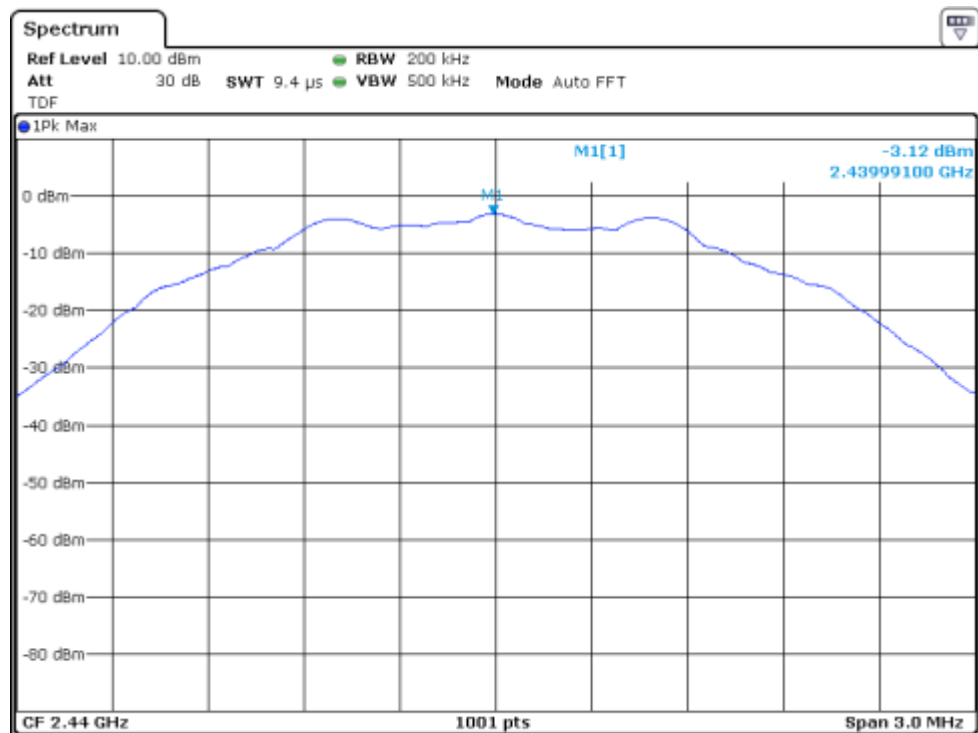
Mid CH (1 Mbps)



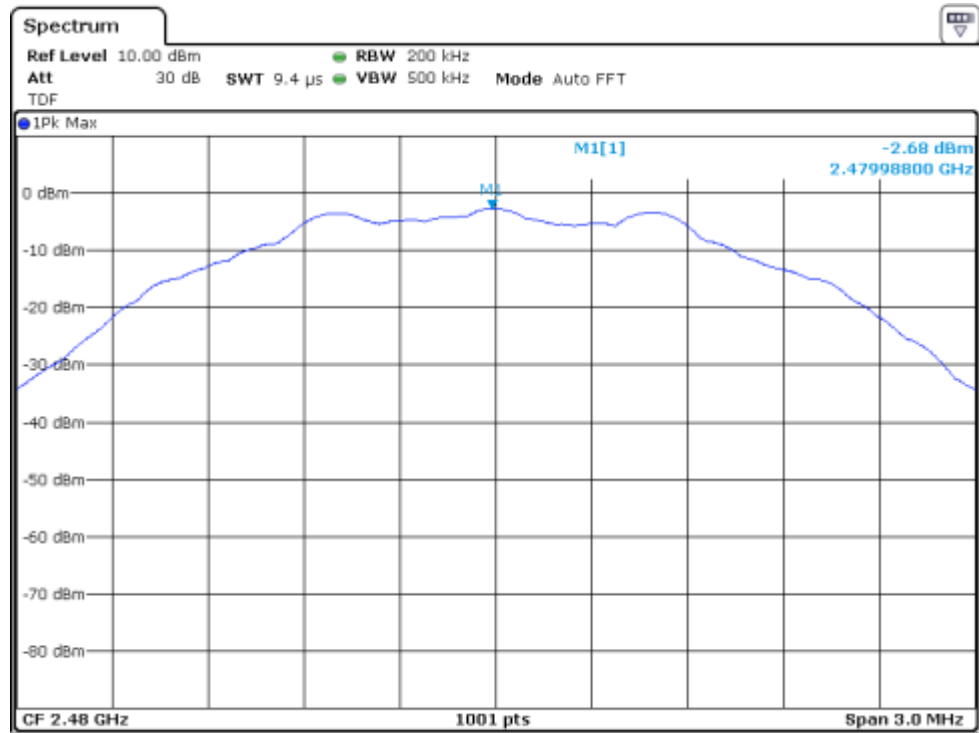
High CH (1 Mbps)



Low CH (2 Mbps)



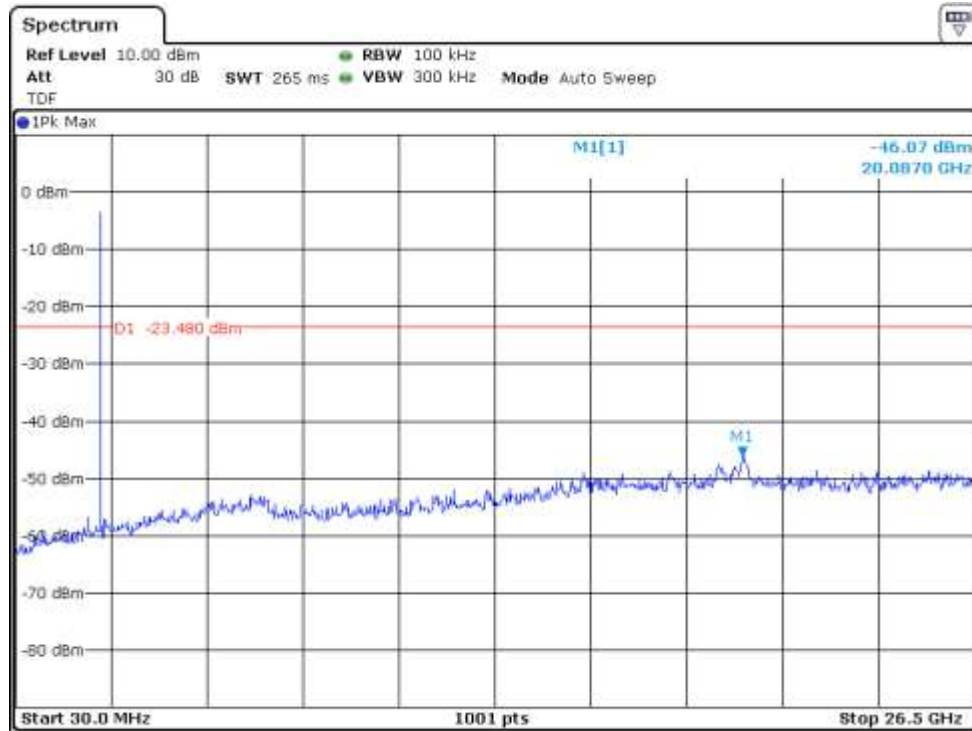
Mid CH (2 Mbps)



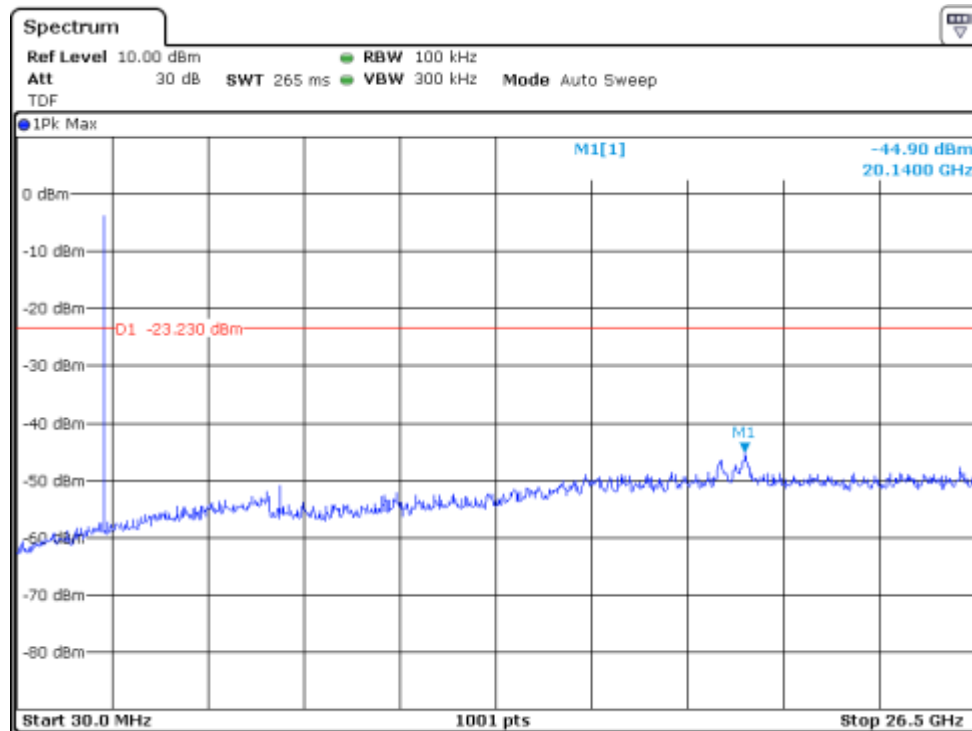
High CH (2 Mbps)



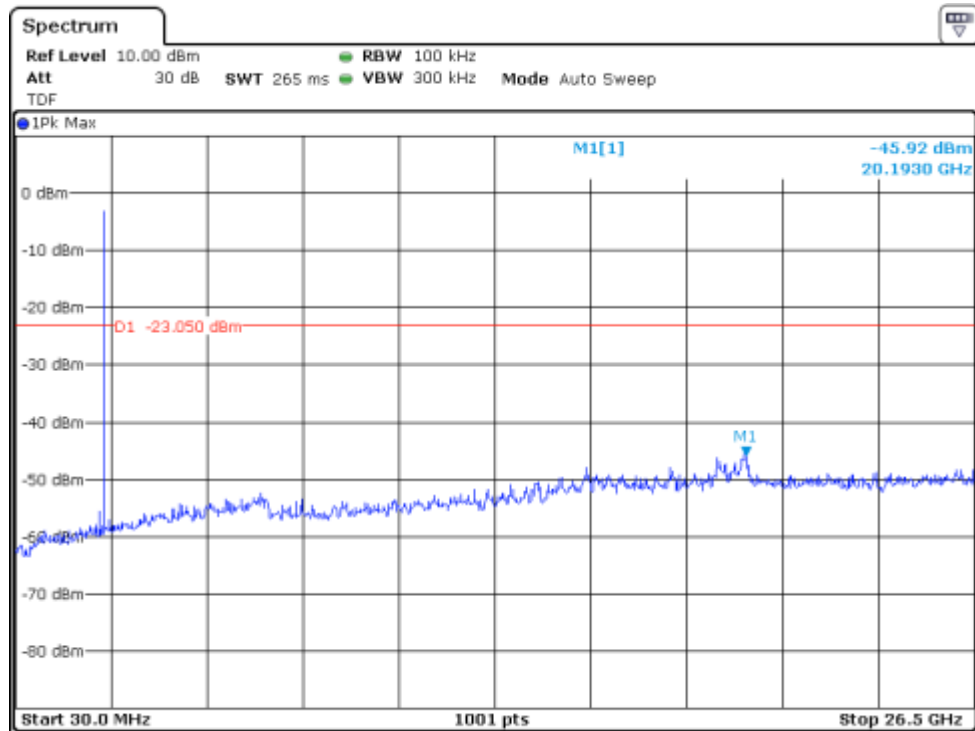
8.4.1.2 Unwanted Emissions In Non-Restricted Frequency Bands



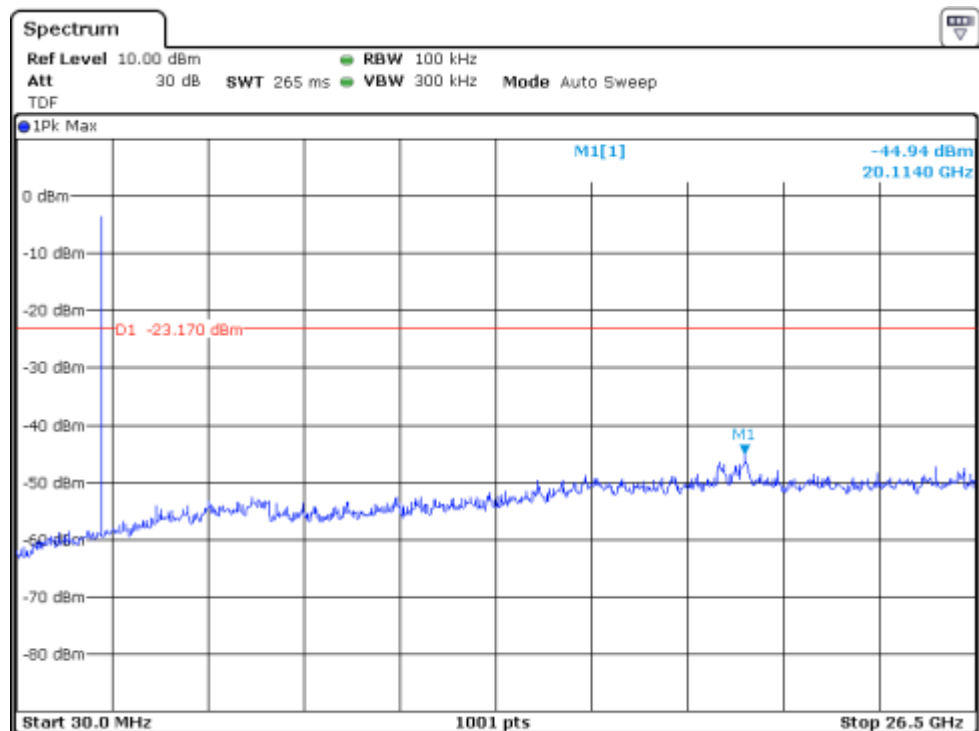
Low CH (1 Mbps)



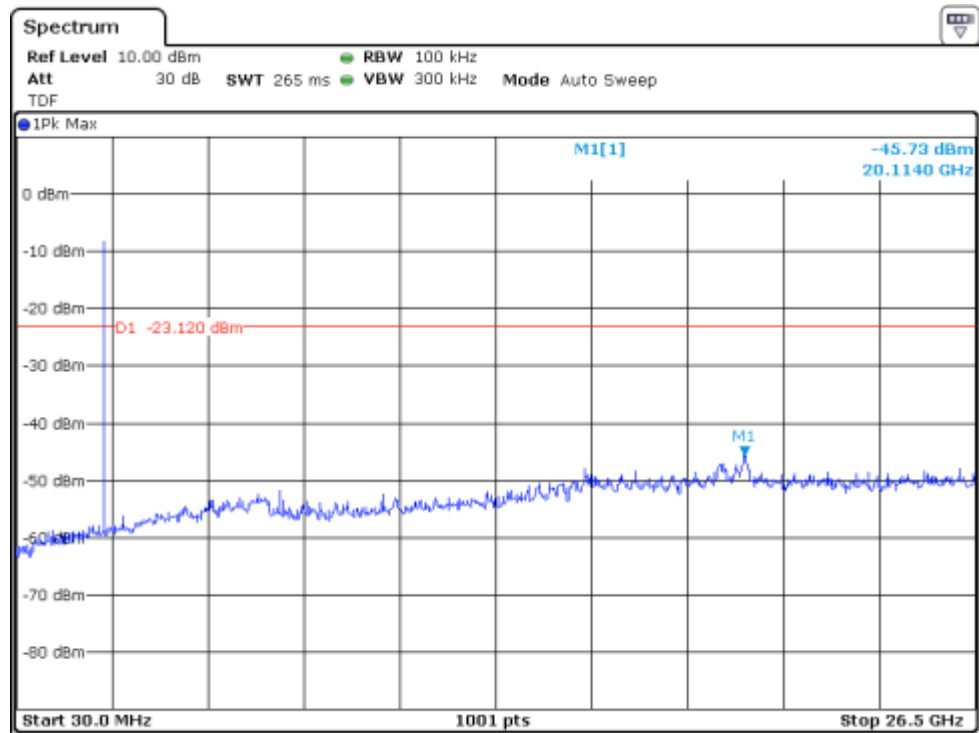
Mid CH (1 Mbps)



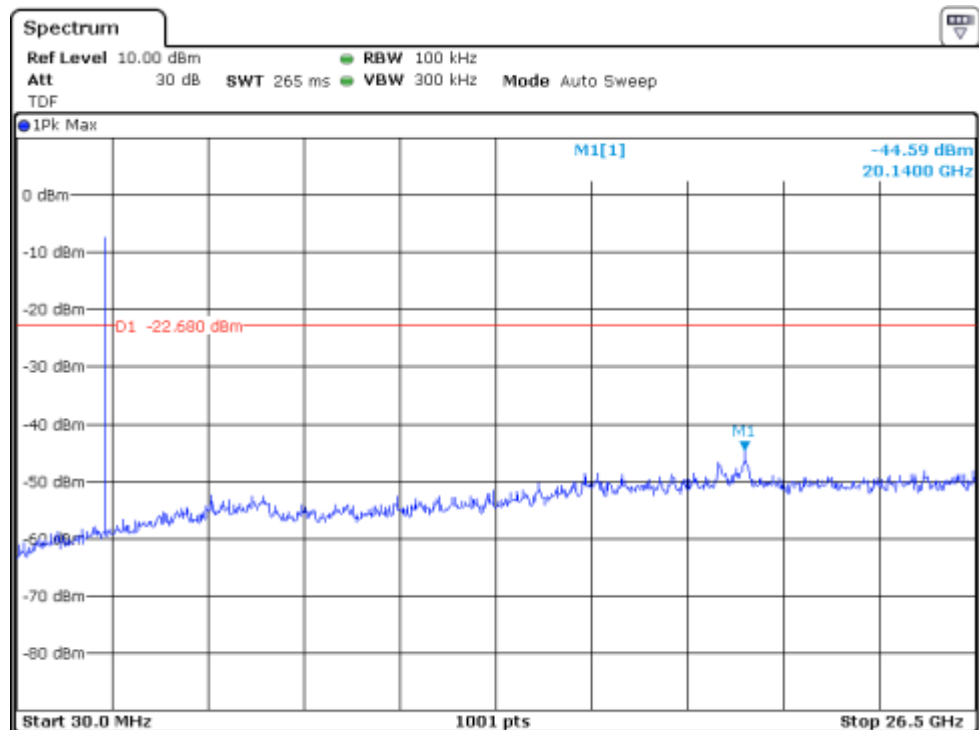
High CH (1 Mbps)



Low CH (2 Mbps)



Mid CH (2 Mbps)



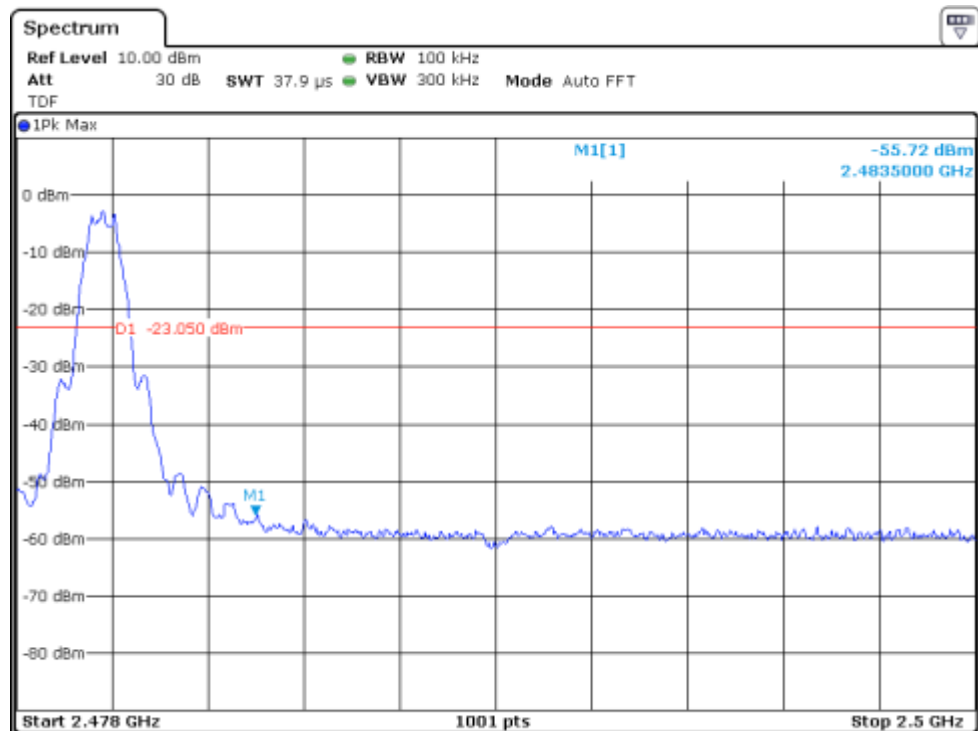
High CH (2 Mbps)



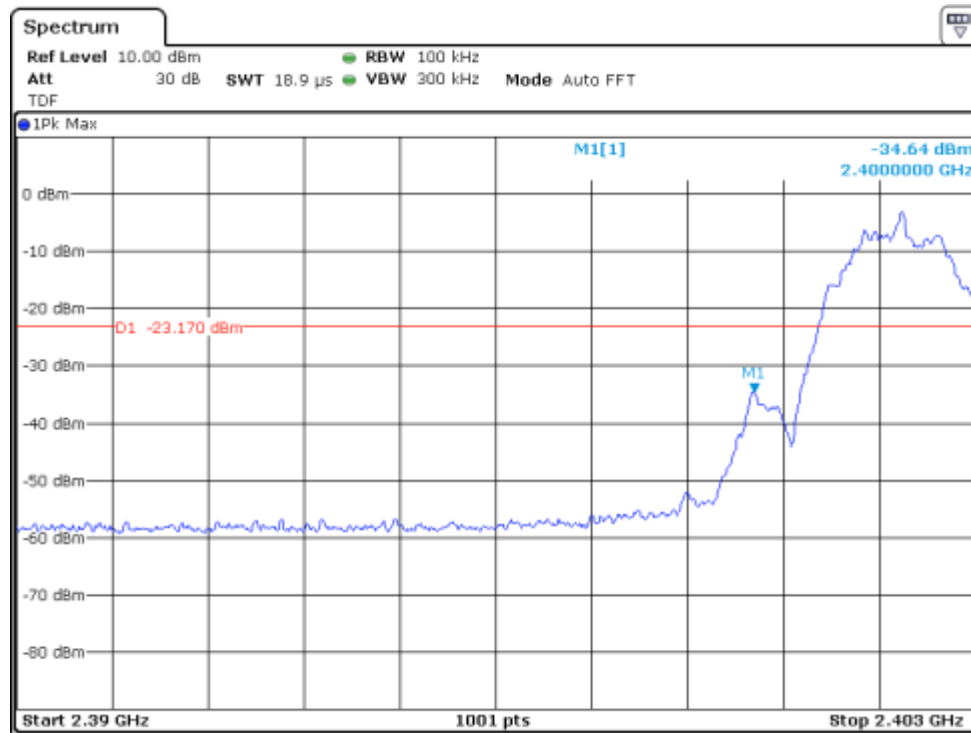
8.4.1.3 Band Edge



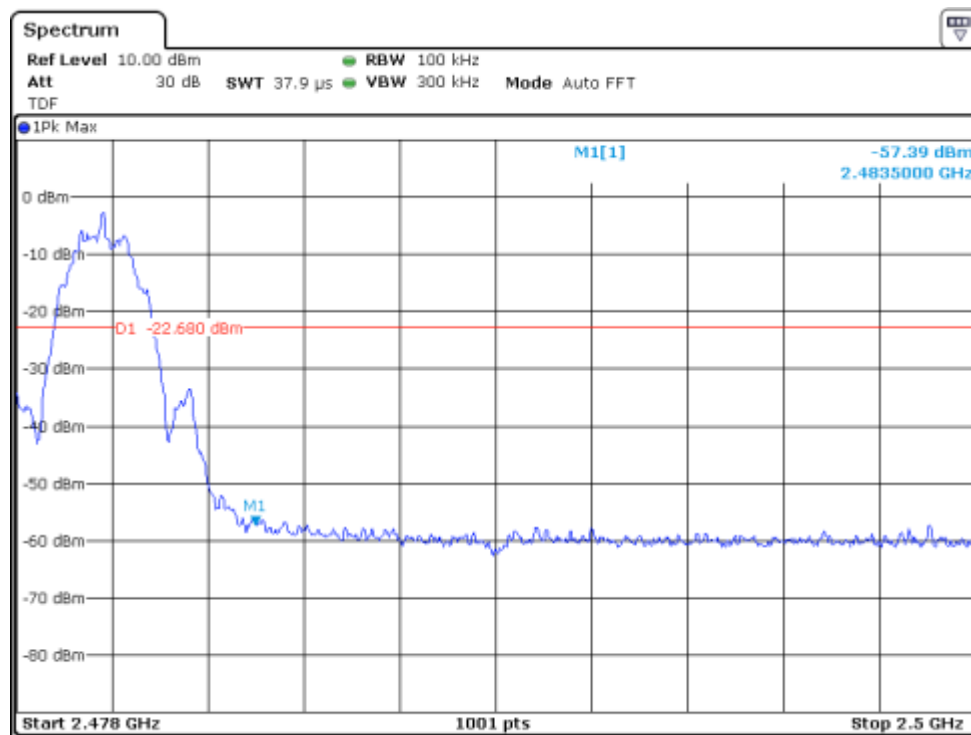
Low CH (1 Mbps)



High CH (1 Mbps)



Low CH (2 Mbps)



High CH (2 Mbps)



9. Radiated Spurious Emission

9.1 Operating environment

Temperature : 24 °C
Relative humidity : 48 %

9.2 Measurement method

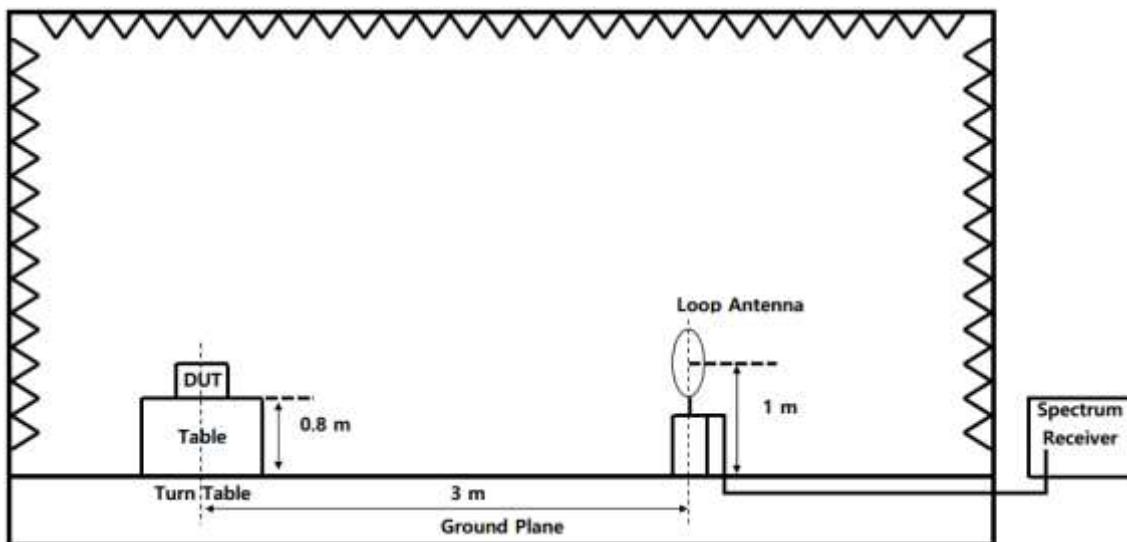
Standard : §15.247 (d), §15.209, §15.205

9.3 Test setup

The radiated emissions measurements were performed on the 3 m, Semi-Anechoic Chamber. The EUT was placed on a non-conductive turntable above the ground plane.

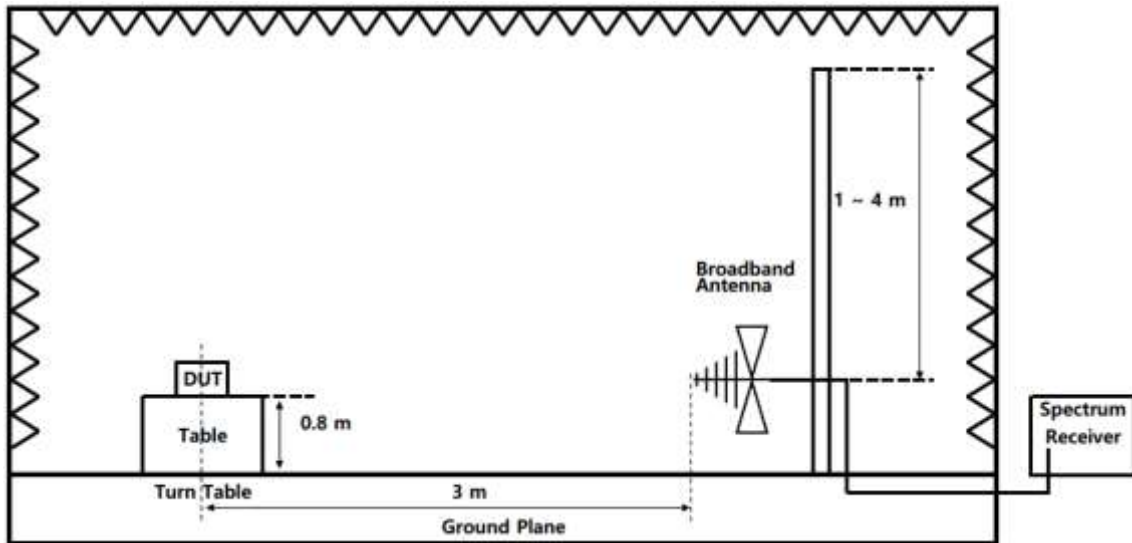
The frequency spectrum from 9 kHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

9.3.1 Below 30 MHz

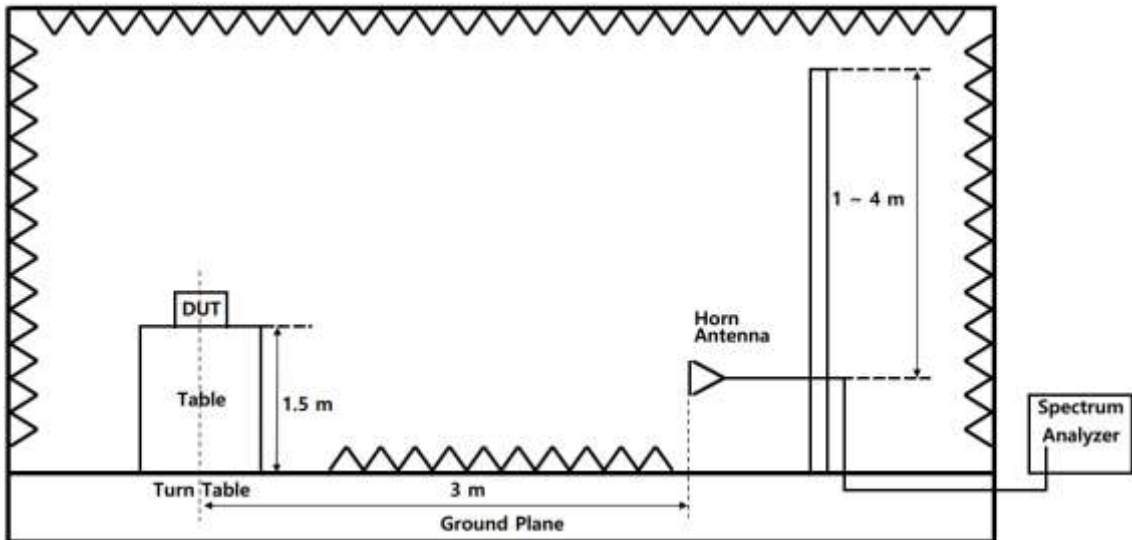




9.3.2 30 MHz to 1 GHz



9.3.3 Above 1 GHz





9.4 Test data

Test date : 28. Jul. 2020
 Operating mode : Transmit mode
 Test Result : Pass

9.4.1 Test data for Restricted band (LE_1 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 390.00	61.75	Peak	H	-13.13	48.62	73.98	25.36
	37.30	Average	H		24.17	53.98	29.81
High CH							
2 483.50	71.74	Peak	H	-12.63	59.11	73.98	14.87
	40.63	Average	H		28	53.98	25.98

9.4.2 Test data for Restricted band (LE_2 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 390.00	61.94	Peak	H	-13.13	48.81	73.98	25.17
	37.21	Average	H		24.08	53.98	29.90
High CH							
2 483.50	71.79	Peak	H	-12.63	59.16	73.98	14.82
	40.68	Average	H		28.05	53.98	25.93

※ Ant. Pol. : Antenna Polarization
 ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
 ※ Result = Reading + Corr. Factor
 ※ Margin = Limit - Result



9.4.3 Test data for Spurious & Harmonic

9.4.3.1 Measurement Results for below 30 MHz (LE_1 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

9.4.3.2 Measurement Results for below 30 MHz (LE_2 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

※ Ant. Pol. : Antenna Polarization

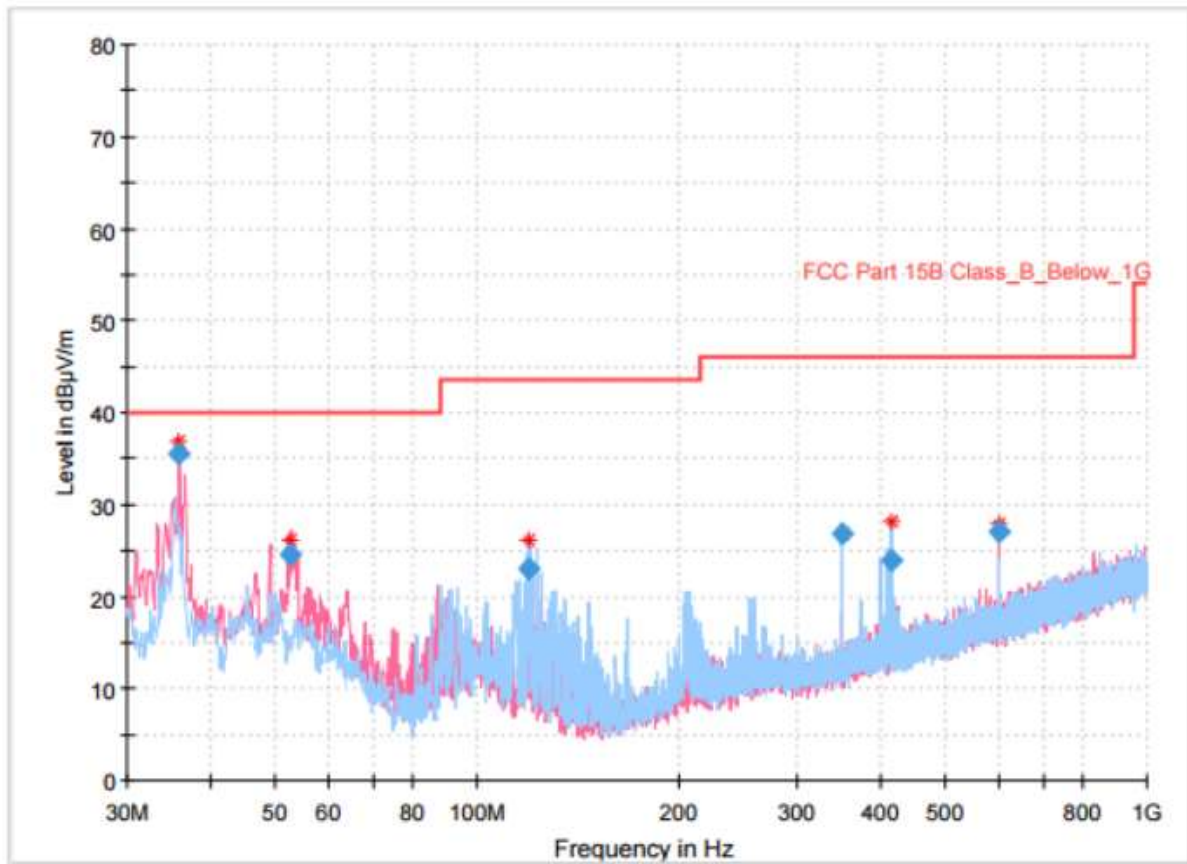
※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result



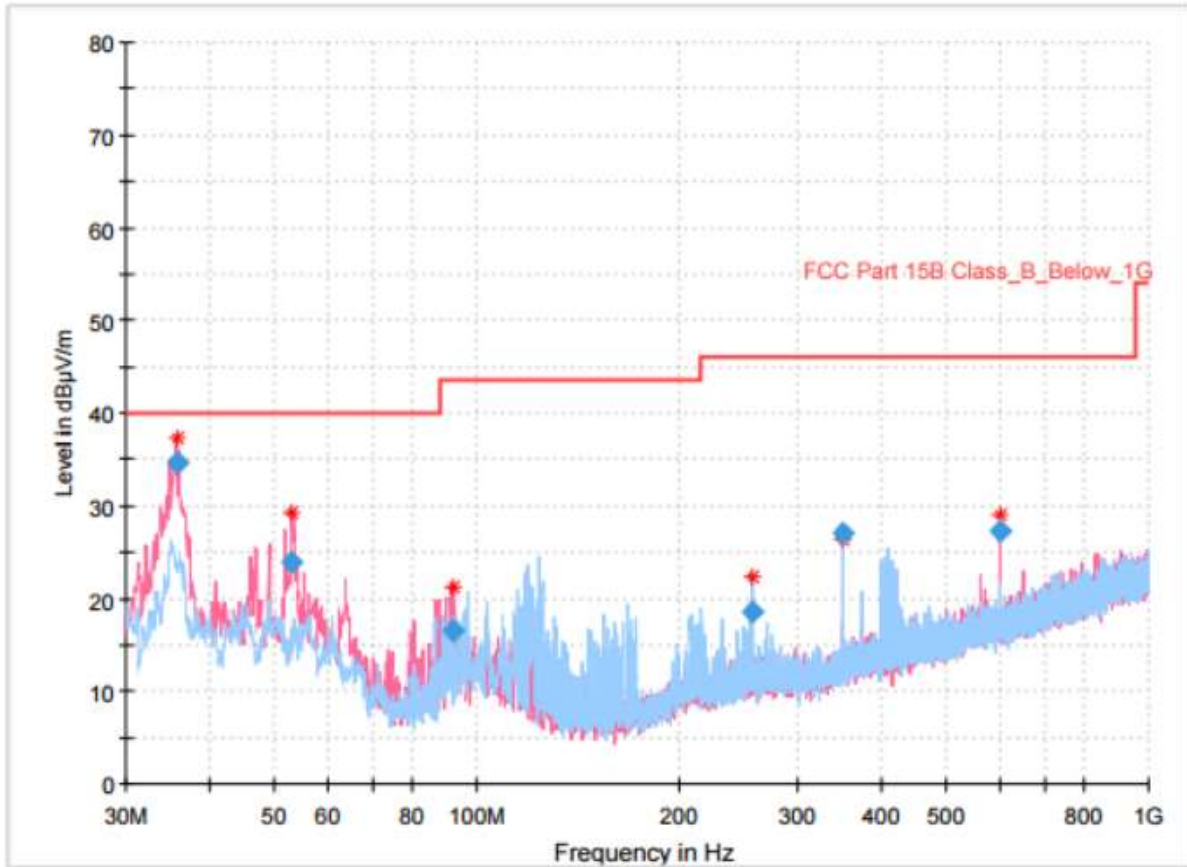
9.4.3.3 Measurement Results for below 1 GHz (LE_1 Mbps)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.917000	35.45	40.00	4.55	1000.0	120.000	100.1	V	266.0	-21.7
52.698000	24.57	40.00	15.43	1000.0	120.000	100.1	V	224.0	-19.4
119.434000	22.93	43.50	20.57	1000.0	120.000	400.1	H	297.0	-23.0
350.003000	26.76	46.00	19.24	1000.0	120.000	100.1	H	121.0	-16.4
414.702000	23.93	46.00	22.07	1000.0	120.000	100.1	H	330.0	-15.0
599.972000	27.09	46.00	18.91	1000.0	120.000	100.1	V	0.0	-11.1

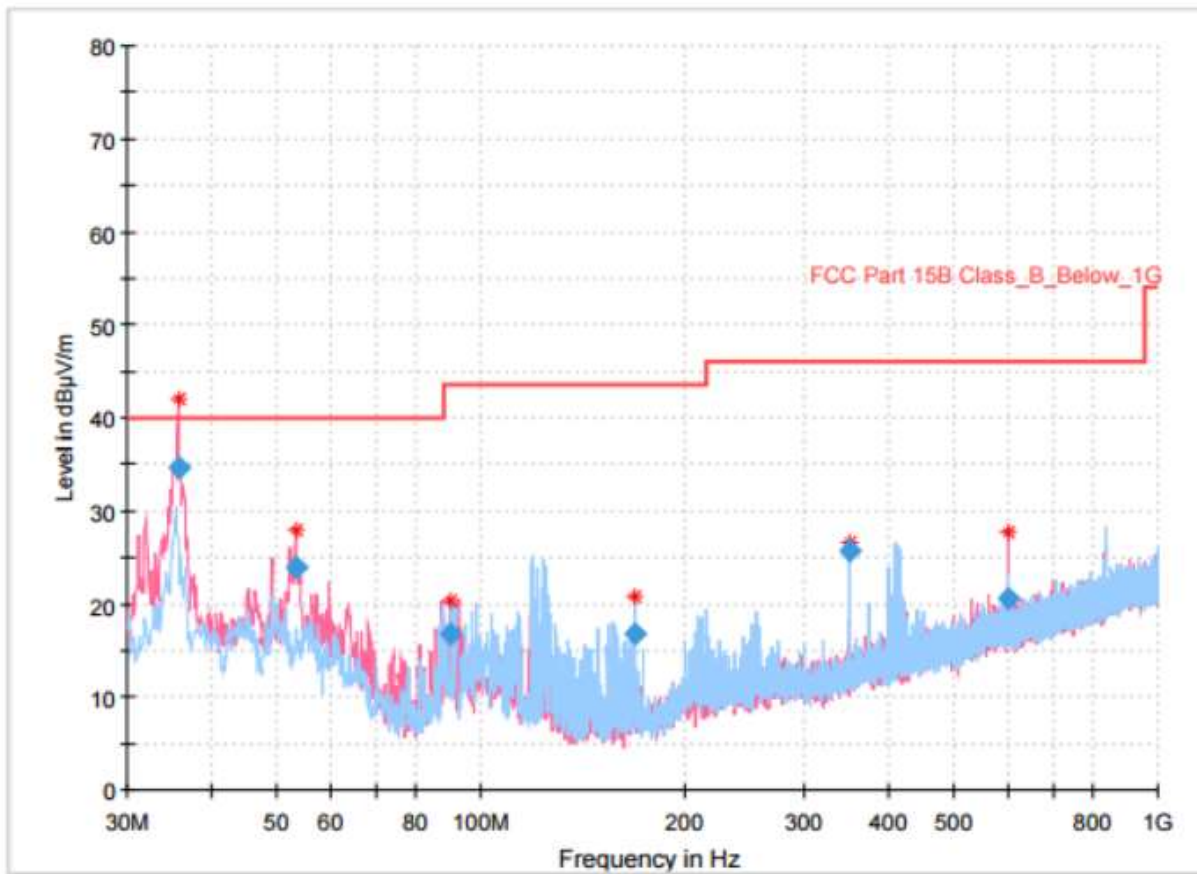
Low CH (1 Mbps)



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.723000	34.71	40.00	5.29	1000.0	120.000	100.1	V	40.0	-21.7
53.086000	23.83	40.00	16.18	1000.0	120.000	100.1	V	0.0	-19.6
92.080000	16.44	43.50	27.06	1000.0	120.000	100.1	V	221.0	-21.9
256.592000	18.51	46.00	27.49	1000.0	120.000	100.1	H	58.0	-18.5
350.003000	26.94	46.00	19.06	1000.0	120.000	100.1	H	112.0	-16.4
599.972000	27.21	46.00	18.79	1000.0	120.000	100.1	V	0.0	-11.1

Mid CH (1 Mbps)



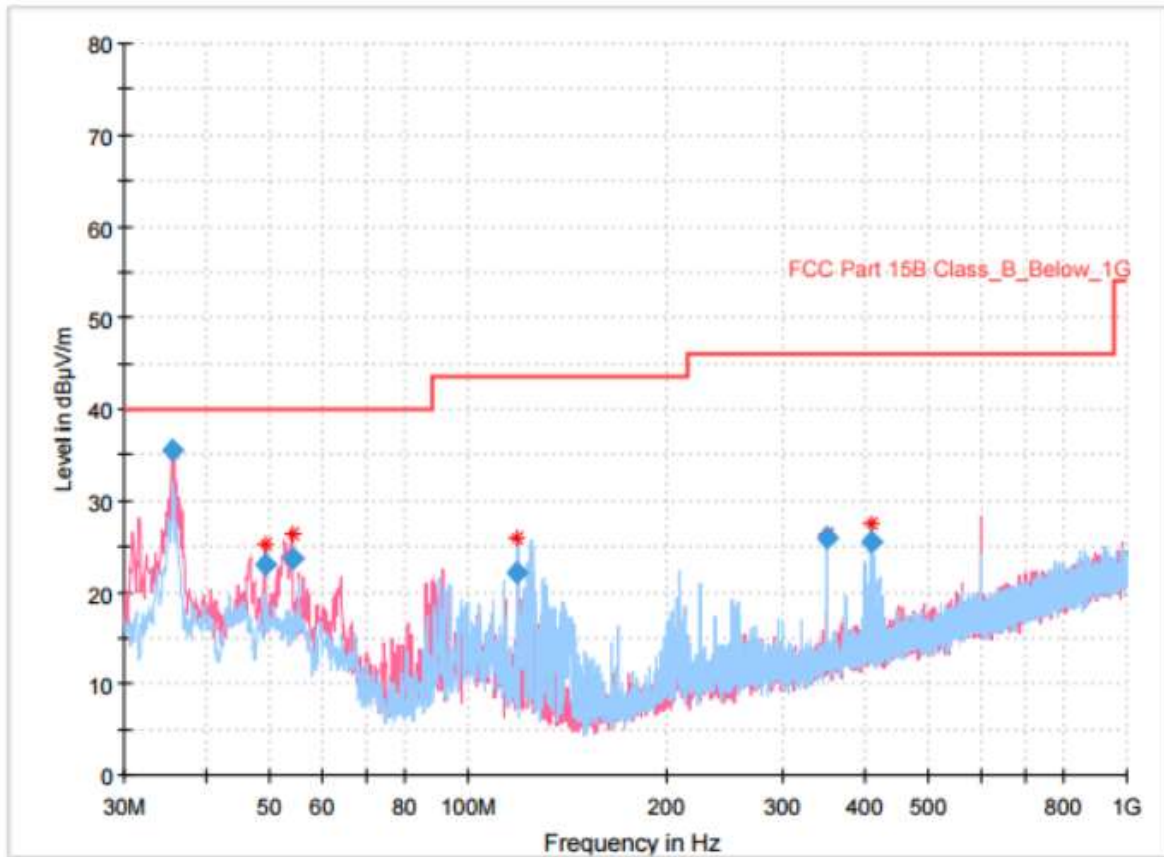
Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.723000	34.66	40.00	5.34	1000.0	120.000	99.9	V	279.0	-21.7
53.183000	23.85	40.00	16.15	1000.0	120.000	99.9	V	6.0	-19.6
90.140000	16.87	43.50	26.63	1000.0	120.000	99.9	V	69.0	-22.4
168.807000	16.86	43.50	26.64	1000.0	120.000	99.9	H	0.0	-23.0
350.003000	25.60	46.00	20.40	1000.0	120.000	99.9	H	97.0	-16.4
600.069000	20.63	46.00	25.37	1000.0	120.000	99.9	V	6.0	-11.1

High CH (1 Mbps)



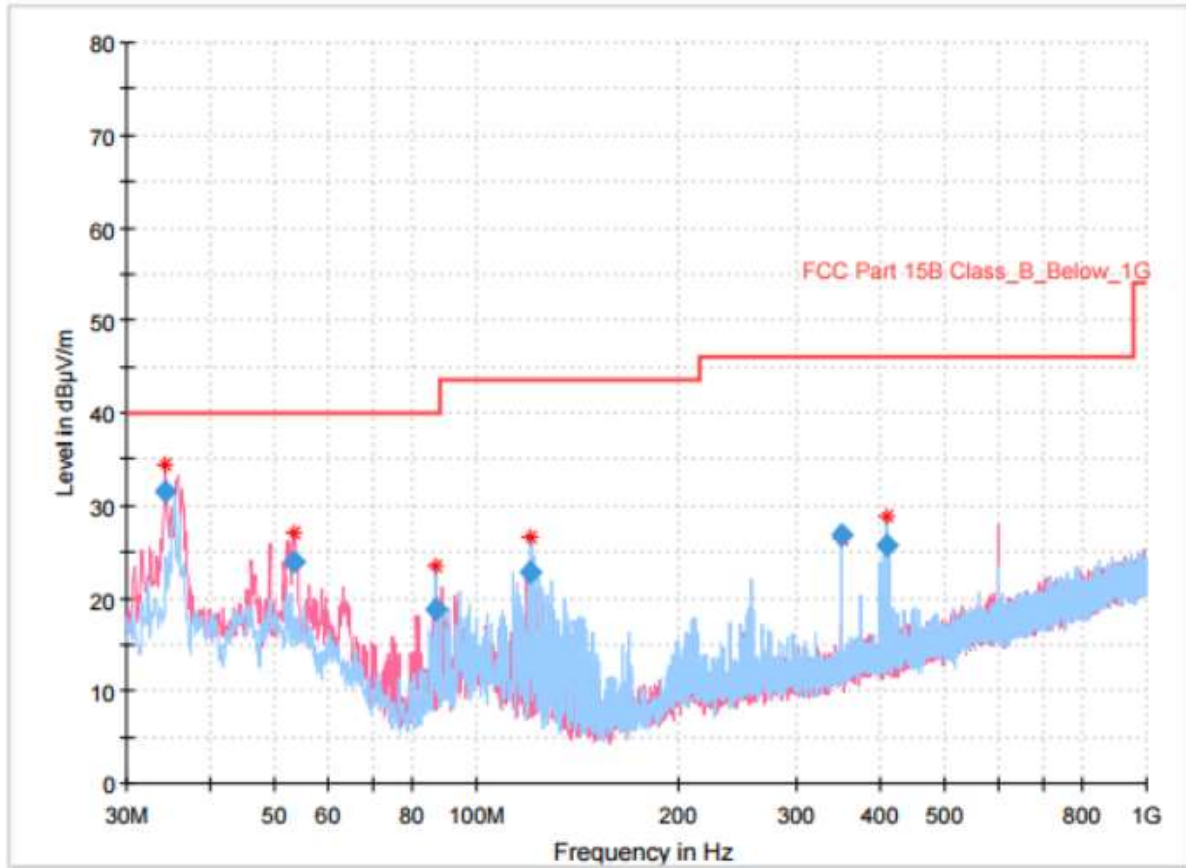
9.4.3.4 Measurement Results for below 1 GHz (LE_2 Mbps)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.529000	35.43	40.00	4.57	1000.0	120.000	100.1	V	112.0	-21.8
49.109000	23.05	40.00	16.95	1000.0	120.000	100.1	V	345.0	-19.2
53.959000	23.65	40.00	16.35	1000.0	120.000	100.1	V	345.0	-19.8
118.852000	22.15	43.50	21.35	1000.0	120.000	400.1	H	250.0	-23.0
350.003000	25.86	46.00	20.14	1000.0	120.000	100.1	H	131.0	-16.4
410.725000	25.42	46.00	20.58	1000.0	120.000	100.1	H	326.0	-15.0

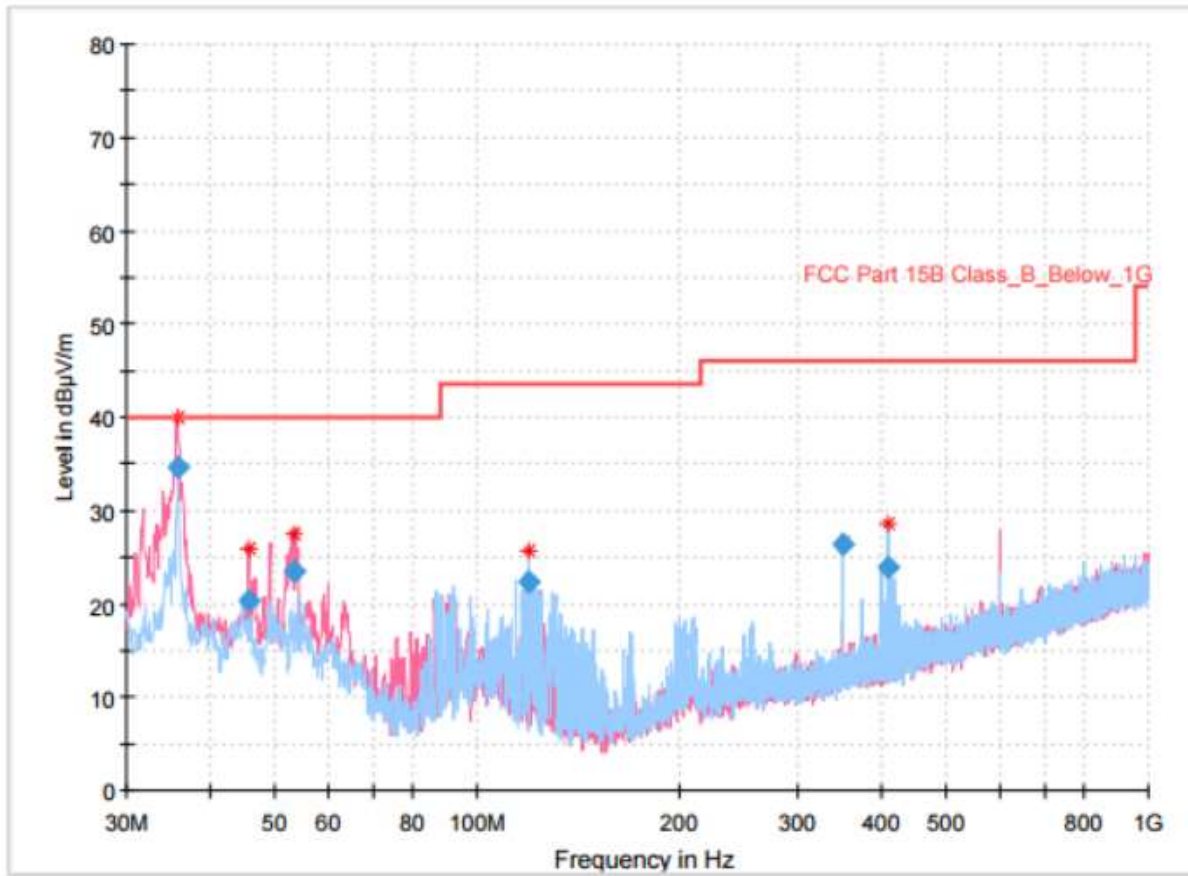
Low CH (2 Mbps)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.268000	31.47	40.00	8.53	1000.0	120.000	100.1	V	0.0	-21.8
53.377000	23.86	40.00	16.14	1000.0	120.000	100.1	V	178.0	-19.7
86.745000	18.85	40.00	21.15	1000.0	120.000	400.0	H	62.0	-23.5
120.598000	22.79	43.50	20.71	1000.0	120.000	400.0	H	264.0	-23.1
350.003000	26.79	46.00	19.21	1000.0	120.000	100.1	H	116.0	-16.4
410.434000	25.60	46.00	20.40	1000.0	120.000	100.1	H	328.0	-15.0

Mid CH (2 Mbps)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.723000	34.69	40.00	5.31	1000.0	120.000	100.1	V	132.0	-21.7
45.714000	20.43	40.00	19.57	1000.0	120.000	100.1	V	155.0	-19.1
53.474000	23.48	40.00	16.52	1000.0	120.000	100.1	V	266.0	-19.7
119.143000	22.25	43.50	21.25	1000.0	120.000	400.1	H	87.0	-23.0
350.003000	26.45	46.00	19.55	1000.0	120.000	100.1	H	106.0	-16.4
408.979000	24.01	46.00	21.99	1000.0	120.000	100.1	H	320.0	-15.0

High CH (2 Mbps)



9.4.3.5 Measurement Results for Above 1 GHz (1 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 804.00	60.11	Peak	H	-4.95	55.16	73.98	18.82
	51.64	Average	H		46.69	53.98	7.29
7 206.00	52.07	Peak	V	-1.44	50.63	73.98	23.35
	38.81	Average	V		37.37	53.98	16.61
Mid CH							
4 880.00	55.91	Peak	H	-4.37	51.54	73.98	22.44
	48.57	Average	H		44.20	53.98	9.78
7 320.00	52.05	Peak	V	-1.05	51.00	73.98	22.98
	38.56	Average	V		37.51	53.98	16.47
High CH							
4 960.00	58.38	Peak	H	-4.27	54.11	73.98	19.87
	49.58	Average	H		45.31	53.98	8.67
7 440.00	51.60	Peak	V	-2.65	48.95	73.98	25.03
	37.81	Average	V		35.16	53.98	18.82



9.4.3.6 Measurement Results for Above 1 GHz (2 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 804.00	69.42	Peak	H	-4.95	64.47	73.98	9.51
	47.02	Average	H		42.07	53.98	11.91
7 206.00	71.92	Peak	H	-1.44	70.48	73.98	3.50
	43.31	Average	H		41.87	53.98	12.11
Mid CH							
4 880.00	67.47	Peak	H	-4.37	63.10	73.98	10.88
	44.09	Average	H		39.72	53.98	14.26
7 320.00	69.54	Peak	H	-1.05	68.49	73.98	5.49
	47.03	Average	H		45.98	53.98	8.00
High CH							
4 960.00	69.07	Peak	H	-4.27	64.80	73.98	9.18
	42.37	Average	H		38.10	53.98	15.88
7 440.00	67.81	Peak	H	-2.65	65.16	73.98	8.82
	44.30	Average	V		41.65	53.98	12.33

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result

- END OF REPORT.