

FCC/ISED - TEST REPORT

Report Number	:	6895025064901	Date of Issue:	2025-05-06
Model/HVIN	:	A2547		
Product Type	:	Smart Watch		
Applicant	:	Anhui Huami Information Technology Co., Ltd.		
Address	:	7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, 518000 Hefei City, PEOPLE'S REPUBLIC OF CHINA		
Manufacturer	:	Anhui Huami Information Technology Co., Ltd.		
Address	:	7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, 518000 Hefei City, PEOPLE'S REPUBLIC OF CHINA		
Test Result	:	☒ Positive ☐ Negative		
Total pages including Appendices	:	57		

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu,
Nantou, Nanshan District,
Shenzhen, Guangdong, China

Telephone: 86 755 8828 6998

Fax: 86 755 8828 5299

FCC Registration 514049

No.:

FCC Designation CN5009
Number:

ISED CAB CN0077
identifier

IC Registration 10320A
No.:

3 Description of the Equipment Under Test

Product:	Smart Watch
Model no.:	A2547
Hardware Version Identification No. (HVIN)	A2547
Product Marketing Name (PMN)	Smart Watch
FCC ID:	2AC8UA2547
IC:	21806-A2547
Options and accessories:	N/A
Rating:	5VDC, 1.5A
RF Transmission Frequency:	2412MHz-2462MHz for 802.11b/g/n20 (Wi-Fi)
No. of Operated Channel:	11 for 802.11b/g/n20 (Wi-Fi)
Modulation:	802.11b: BPSK, QPSK, CCK, 802.11g/802.11n20: BPSK, QPSK, 16-QAM, 64-QAM
Antenna Type:	Metal Case
Antenna Gain:	-4.92dBi
Description of the EUT:	The EUT is a Smart Watch. It supports Bluetooth Low Energy/Bluetooth BDR+EDR and 2.4G Wi-Fi functions. This report is only for 2.4GHz Wi-Fi.

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2023 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 5 April 2018 + Amendment 1 March 2019 + Amendment 2 February 2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 3 August 2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.

5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C/ RSS-247 Issue 3/RSS-Gen Issue 5						
Test Condition		Test Site	Test Result			Test Environment
			Pass	Fail	N/A	
§15.207 & RSS-GEN 8.8	Conducted emission AC power port	Site 1	☒	☐	☐	T: 23.5°C H: 49.4%
§15.247 (b) (3) & RSS-247 5.4(d)	Conducted peak output power	Site 1	☒	☐	☐	T: 22.3°C H: 48.3%
RSS-247 5.4(d)	Equivalent Isotropic Radiated Power	Site 1	☒	☐	☐	T: 22.3°C H: 48.3%
§15.247(a)(2) & RSS-247 5.2(a) & RSS-GEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	Site 1	☒	☐	☐	T: 22.3°C H: 48.3%
§15.247(e) & RSS-247 5.2(b)	Power spectral density	Site 1	☒	☐	☐	T: 22.3°C H: 48.3%
§15.247(d) & RSS-247 5.5	Spurious RF conducted emissions	Site 1	☒	☐	☐	T: 22.3°C H: 48.3%
§15.247(d) & RSS-247 5.5	Band edge	Site 1	☒	☐	☐	T: 23.5°C H: 47.7%
§15.247(d) & §15.209 & §15.205 & RSS-247 5.5 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	Site 1	☒	☐	☐	T: 23.5°C H: 47.7%
§15.203 & RSS-Gen 6.8	Antenna requirement	See note 2	☒	☐	☐	--

Note 1: N/A=Not Applicable.

Note 2: The EUT uses Metal Case antenna, which gain is -4.92dBi. In accordance to §15.203 & RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.

Note 3: T :Temperature, H: Humidity

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AC8UA2547, IC: 21806-A2547, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules and RSS-247, RSS-GEN.

SUMMARY:

All tests according to the regulations cited on page 6 were

■ - Performed

□ - Not Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

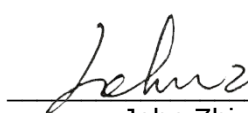
Sample Received Date: 2025-04-17

Testing Start Date: 2025-04-17

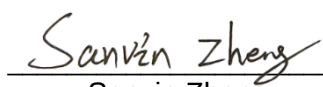
Testing End Date: 2025-04-06

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

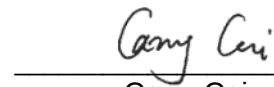
Reviewed by:


John Zhi
Section Manager

Prepared by:

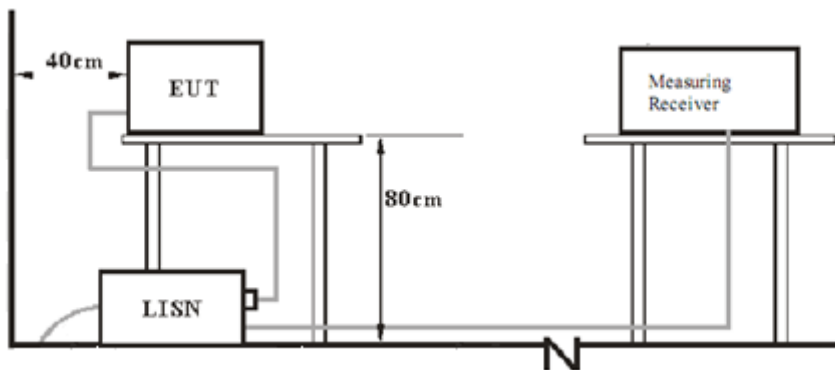

Sanvin Zheng
Project Engineer

Tested by:


Carry Cai
Test Engineer

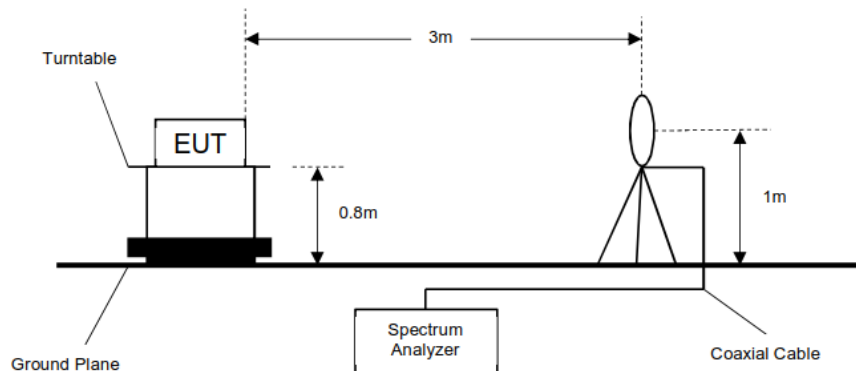
7 Test Setups

7.1 AC Power Line Conducted Emission test setups

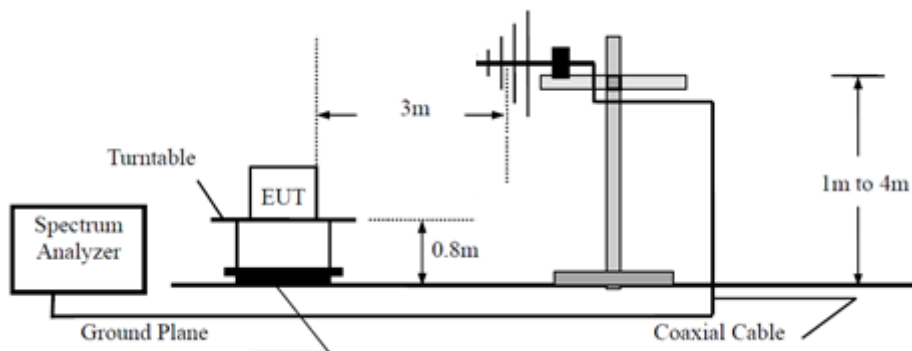


7.2 Radiated test setups

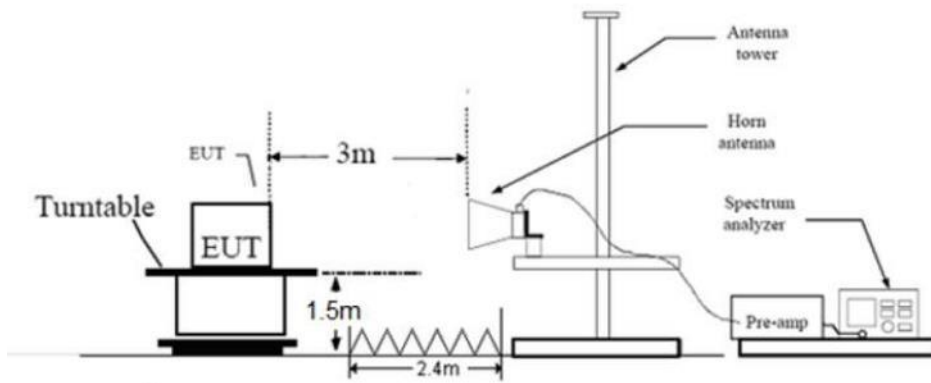
9KHz - 30MHz



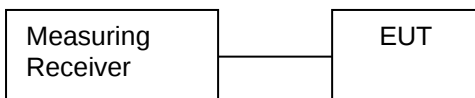
30MHz - 1GHz



Above 1GHz



7.3 Conducted RF test setups



8 Systems Test Configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	S/N
Notebook	LENOVO	X220	---
Watch Charger	HUAMI	---	---
Adapter	HUAWEI	HW-110600C02	---

Cables Used During Test:

Cable	Length	Shielded/unshielded	With / without ferrite
USB cable	100cm	Unshielded	without ferrite

Test software information:

Test Software Version	SSCOM.exe		
Mode	Channel(MHz)	Setting TX Power	Data Rate
11b	2412	Default	11b 1 Mbps
	2437	Default	
	2462	Default	
11g	2412	Default	11g 6 Mbps
	2437	Default	
	2462	Default	
11n HT20	2412	Default	MCS0
	2437	Default	
	2462	Default	

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limit

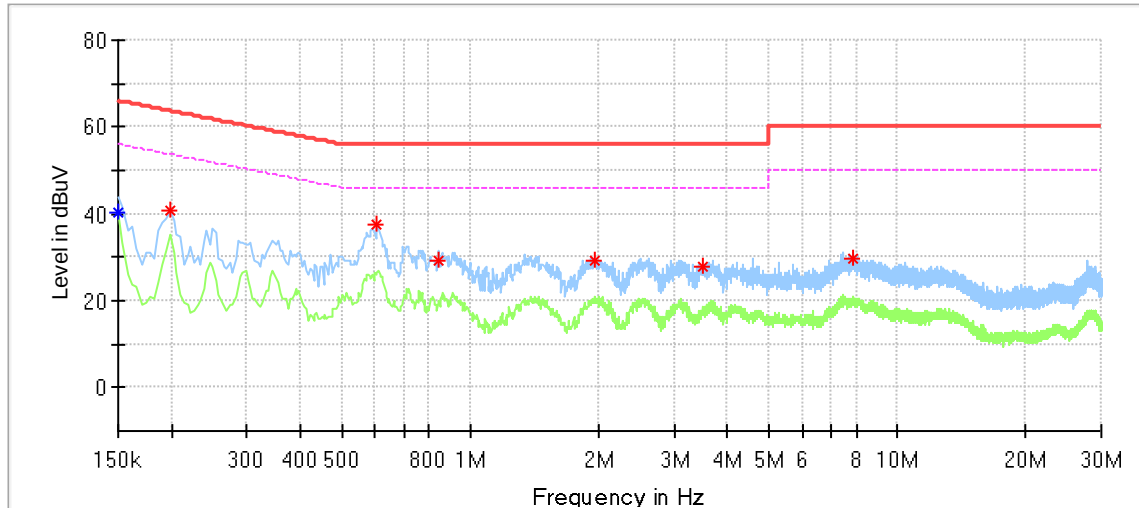
According to §15.207& RSS-Gen 8.8, Conducted Emission limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Conducted Emission

Product Type : Smart Watch
 M/N : A2547
 Operating Condition : Transmit mode
 Test Specification : Line
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	40.23	56.00	15.77	L1	9.68
0.198000	40.94	---	63.69	22.76	L1	9.67
0.606000	37.37	---	56.00	18.63	L1	9.68
0.842000	29.42	---	56.00	26.58	L1	9.69
1.950000	29.36	---	56.00	26.64	L1	9.73
3.518000	27.62	---	56.00	28.38	L1	9.77
7.854000	29.70	---	60.00	30.30	L1	9.89

Remark:

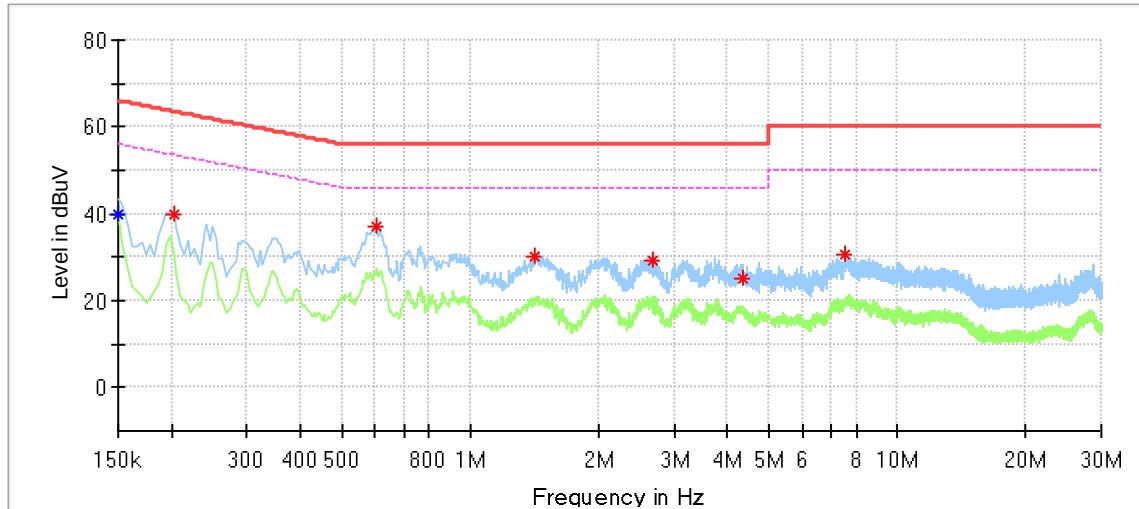
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : Smart Watch
 M/N : A2547
 Operating Condition : Transmit mode
 Test Specification : Neutral
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	39.67	56.00	16.33	N	9.67
0.202000	39.84	---	63.53	23.69	N	9.66
0.602000	37.05	---	56.00	18.95	N	9.67
1.414000	30.03	---	56.00	25.97	N	9.69
2.674000	29.25	---	56.00	26.75	N	9.72
4.342000	25.08	---	56.00	30.92	N	9.76
7.522000	30.48	---	60.00	29.52	N	9.86

Remark:

Level=Reading Level + Correction Factor

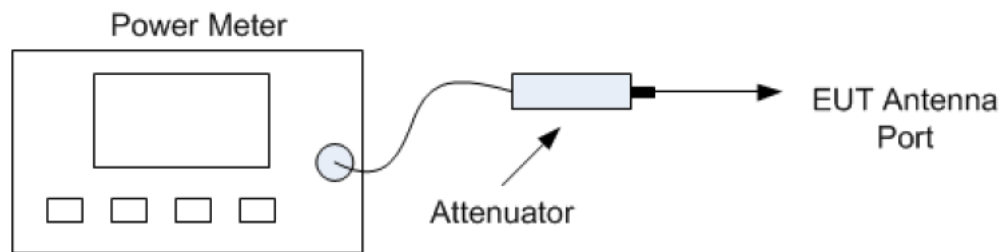
Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

9.2 Conducted Output Power & EIRP

Test Method

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 4) Measure the peak power of the transmitter. This measurement is a peak over both the ON and OFF periods of the transmitter.



Power meter conducted test setup

Limits

According to §15.247 (b) (3) & RSS-247 5.4(d), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

According to & RSS-247 5.4(d), EIRP limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤4	≤36

Test result as below table

Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Verdict
802.11b	SISO	2412	1	-4.92	16.50	11.58	≤30	≤36	Pass
		2437	1	-4.92	16.49	11.57	≤30	≤36	Pass
		2462	1	-4.92	15.93	11.01	≤30	≤36	Pass
802.11g	SISO	2412	1	-4.92	15.67	10.75	≤30	≤36	Pass
		2437	1	-4.92	15.46	10.54	≤30	≤36	Pass
		2462	1	-4.92	15.04	10.12	≤30	≤36	Pass
802.11n (HT20)	SISO	2412	1	-4.92	15.59	10.67	≤30	≤36	Pass
		2437	1	-4.92	15.42	10.50	≤30	≤36	Pass
		2462	1	-4.92	14.85	9.93	≤30	≤36	Pass

Note1: E.I.R.P = Measured Power + Antenna Gain

9.3 6dB Bandwidth and 99% Occupied Bandwidth

Test Method for 6 dB Bandwidth

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
RBW=1% to 5% of the occupied bandwidth but not less than 100kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
5. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Test Method for 99 % Bandwidth

1. Connect EUT test port to spectrum analyzer.
Use the following spectrum analyzer settings:
RBW=1% to 5% of OBW, or a minimum of 1 MHz if this is not possible due to a large OBW, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the occupied bandwidth measurement capability of test receiver.
3. Allow the trace to stabilize, record the occupied bandwidth value.

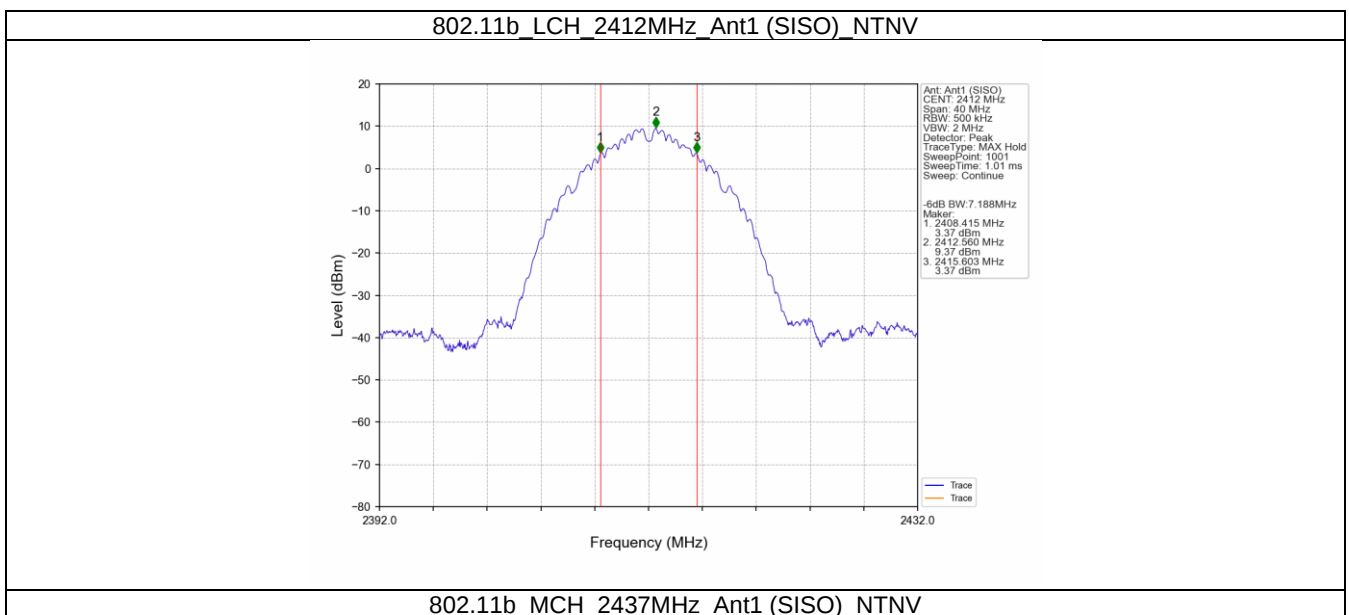
Limit

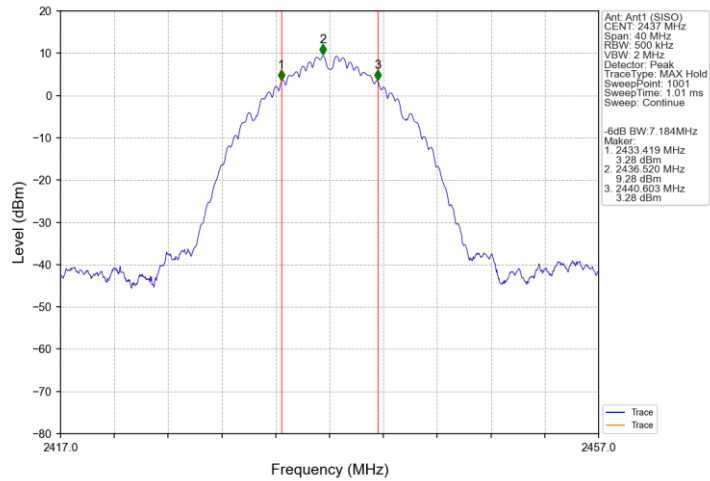
6dB bandwidth Limit [kHz]	99% bandwidth Limit [kHz]
≥ 500	--

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.188	≥ 0.5	Pass
		2437	1	7.184	≥ 0.5	Pass
		2462	1	7.150	≥ 0.5	Pass
802.11g	SISO	2412	1	13.862	≥ 0.5	Pass
		2437	1	13.954	≥ 0.5	Pass
		2462	1	12.893	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.060	≥ 0.5	Pass
		2437	1	16.058	≥ 0.5	Pass
		2462	1	16.156	≥ 0.5	Pass

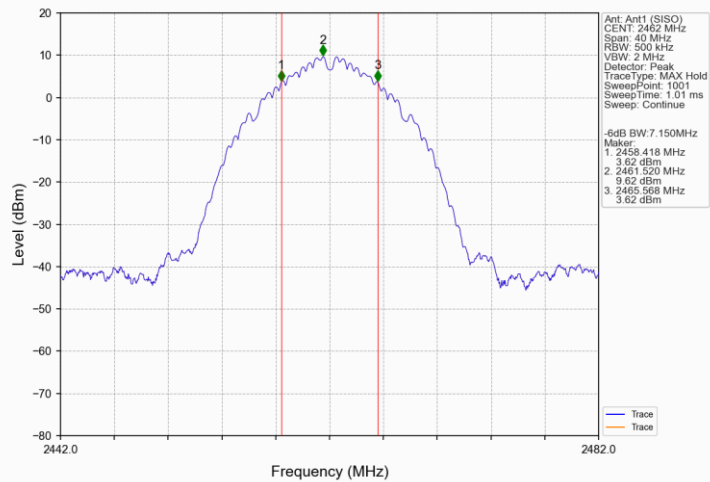
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.676	/	Pass
		2437	1	12.563	/	Pass
		2462	1	12.548	/	Pass
802.11g	SISO	2412	1	16.941	/	Pass
		2437	1	16.833	/	Pass
		2462	1	16.870	/	Pass
802.11n (HT20)	SISO	2412	1	18.110	/	Pass
		2437	1	18.133	/	Pass
		2462	1	18.159	/	Pass

6 dB Bandwidth

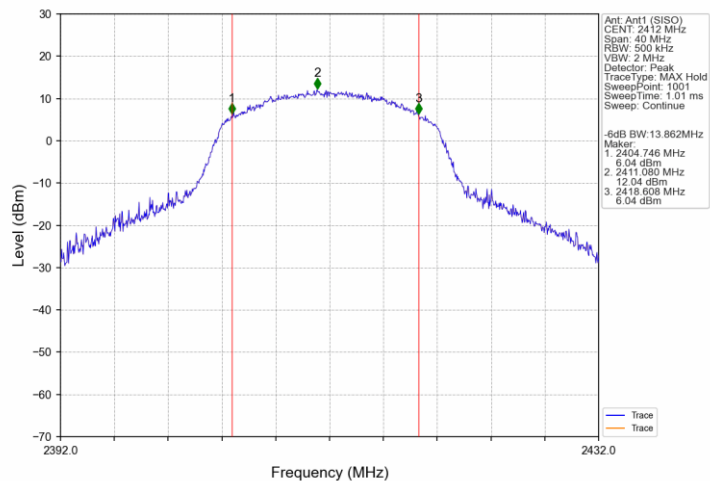




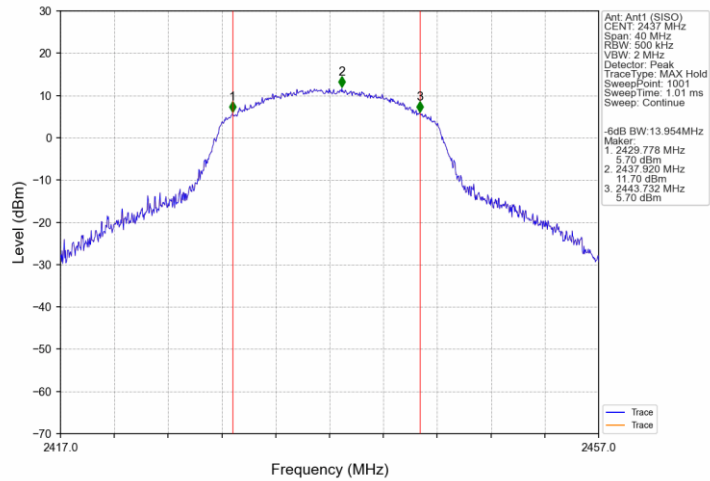
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



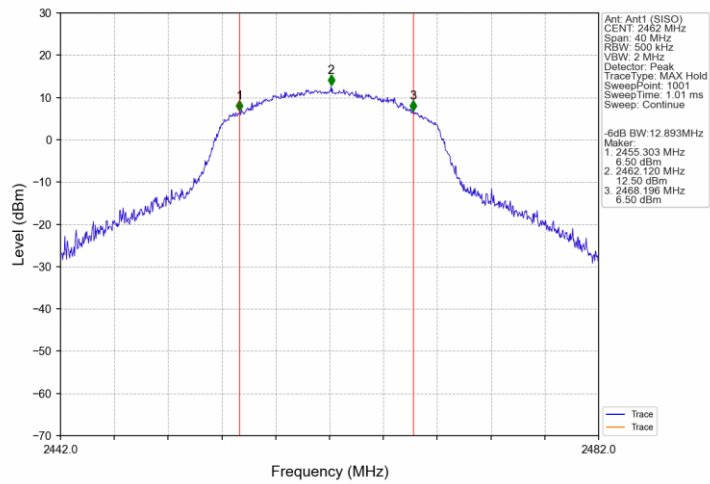
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



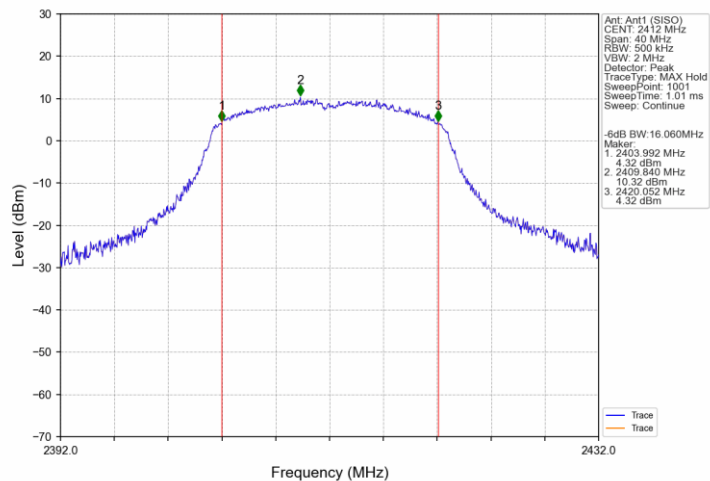
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



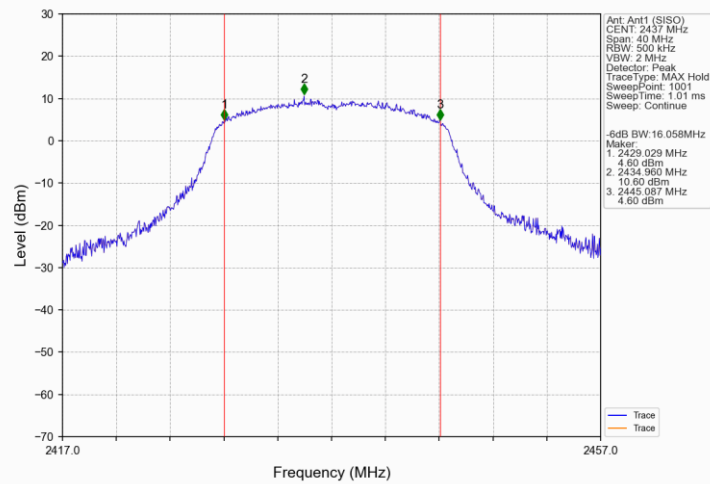
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



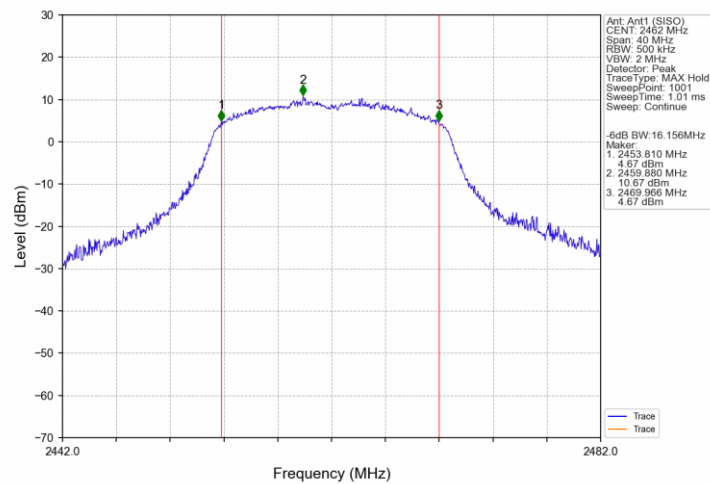
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

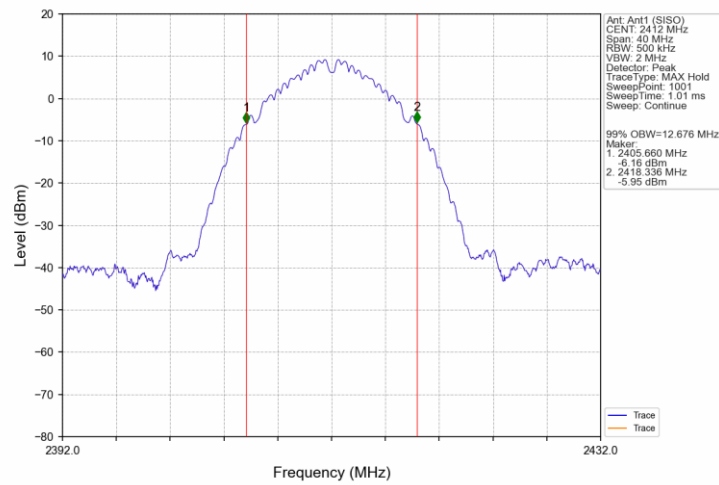


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

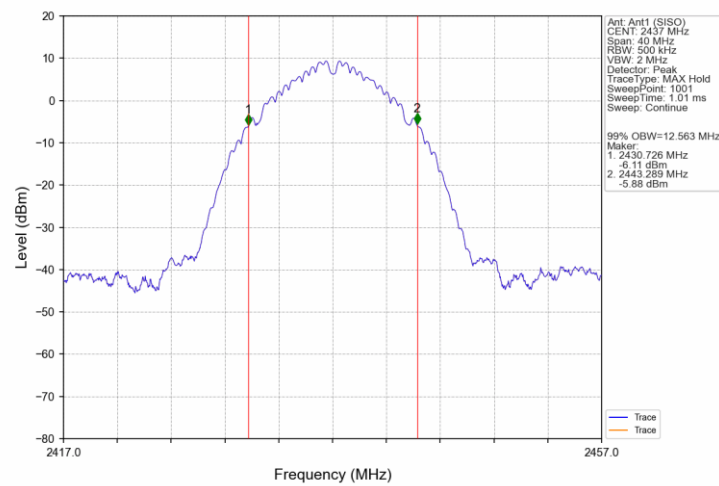


99% Bandwidth

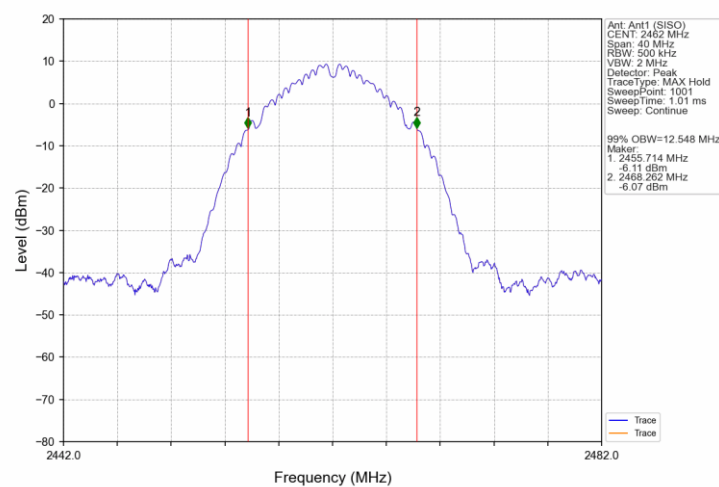
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



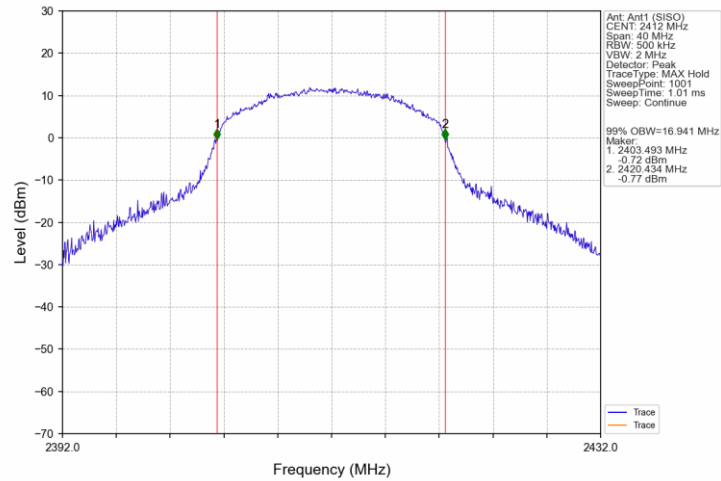
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



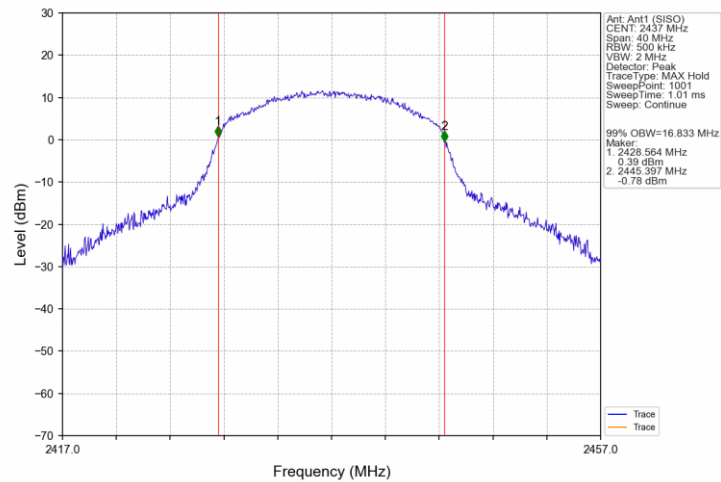
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



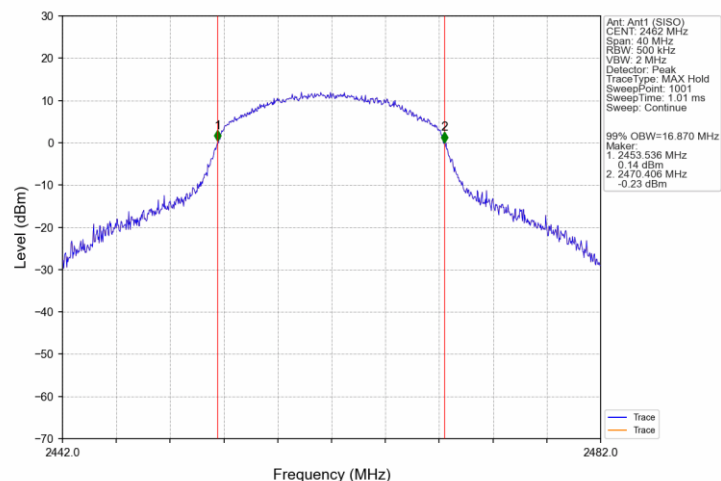
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



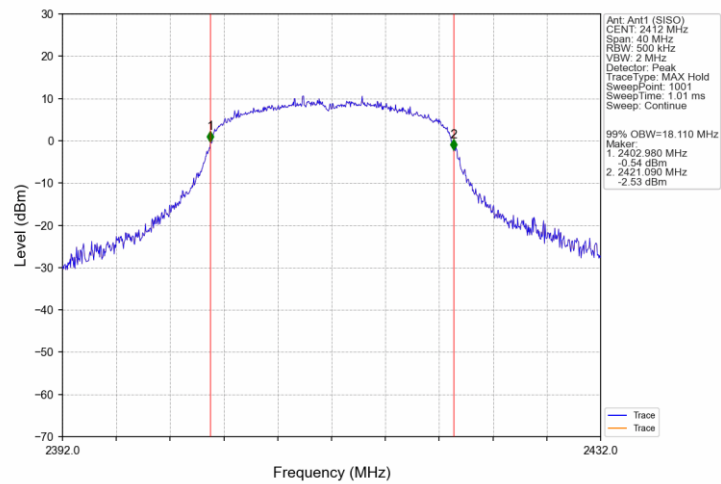
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



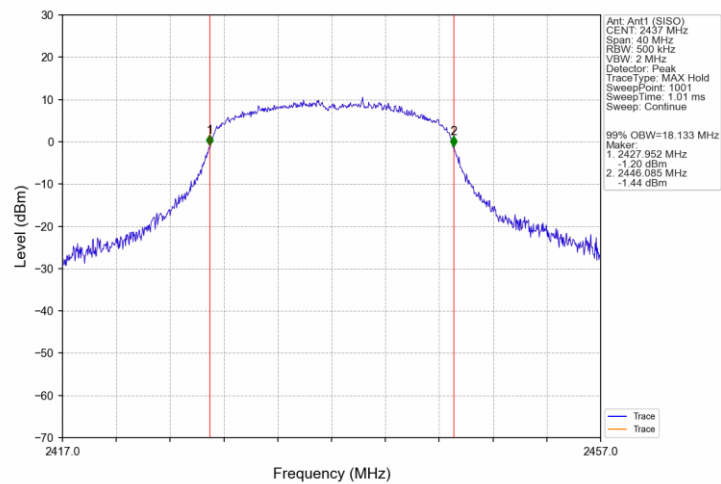
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



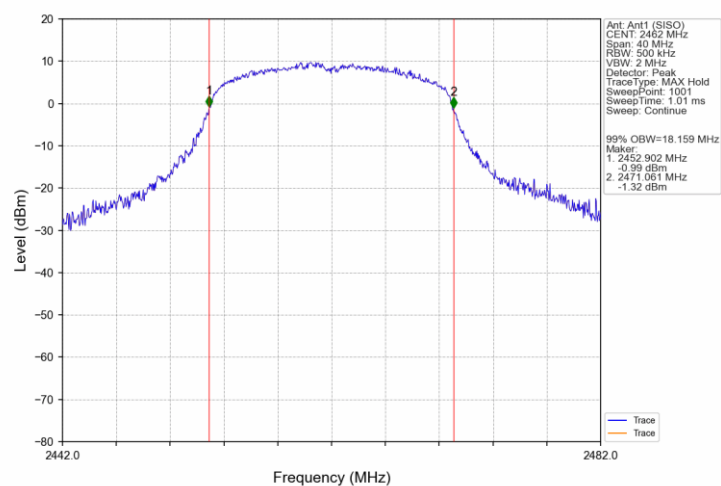
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20) MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20) HCH_2462MHz_Ant1 (SISO)_NTNV



9.4 Power Spectral Density

Test Method

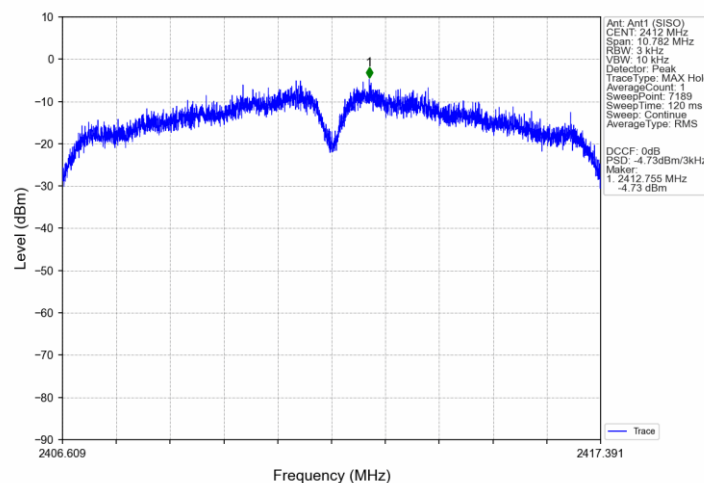
1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

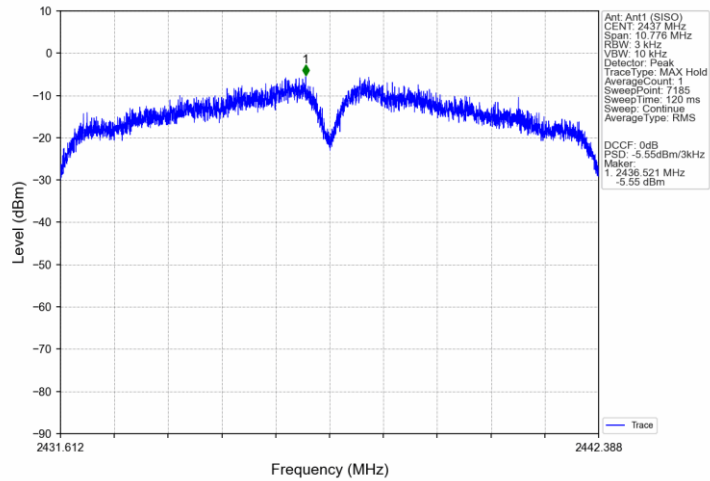
Limit [dBm/3KHz]
≤8

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-4.73	≤8	Pass
		2437	-5.55	≤8	Pass
		2462	-5.26	≤8	Pass
802.11g	SISO	2412	-4.81	≤8	Pass
		2437	-5.32	≤8	Pass
		2462	-3.65	≤8	Pass
802.11n (HT20)	SISO	2412	-9.70	≤8	Pass
		2437	-10.36	≤8	Pass
		2462	-10.20	≤8	Pass

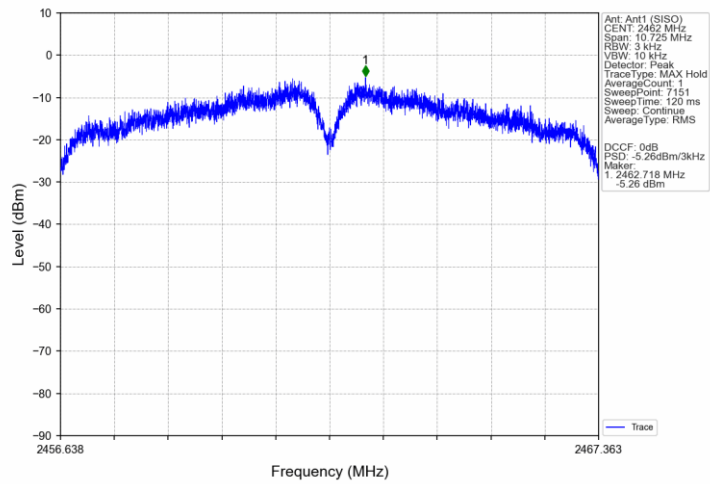
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



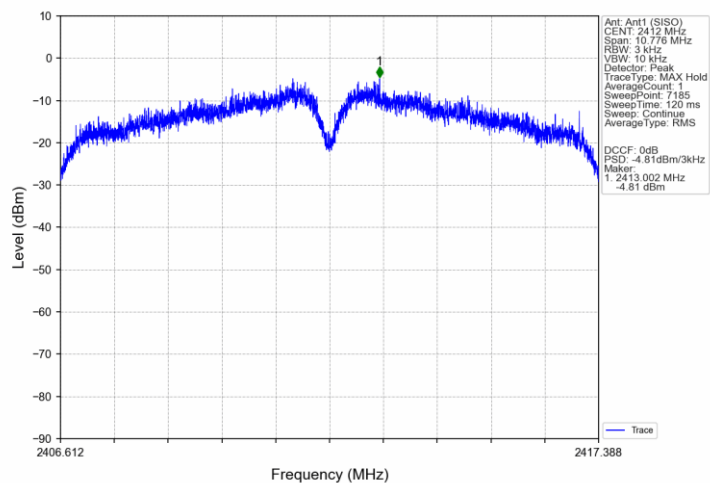
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



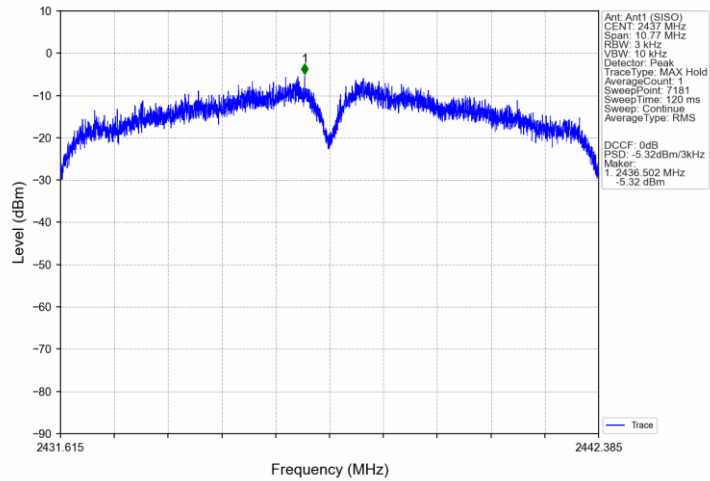
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



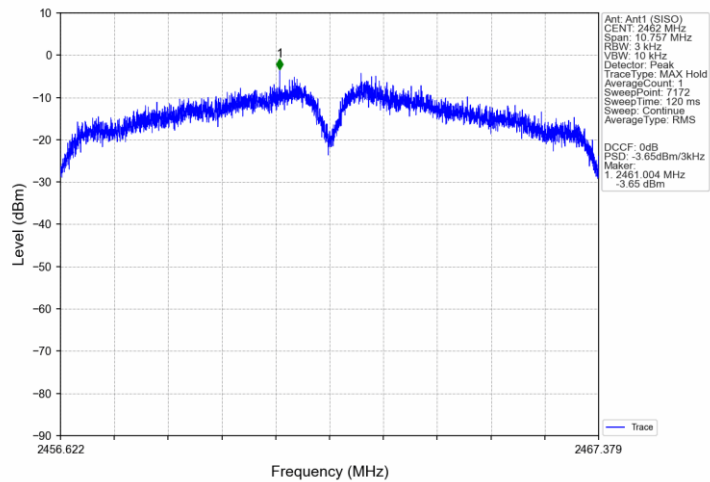
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



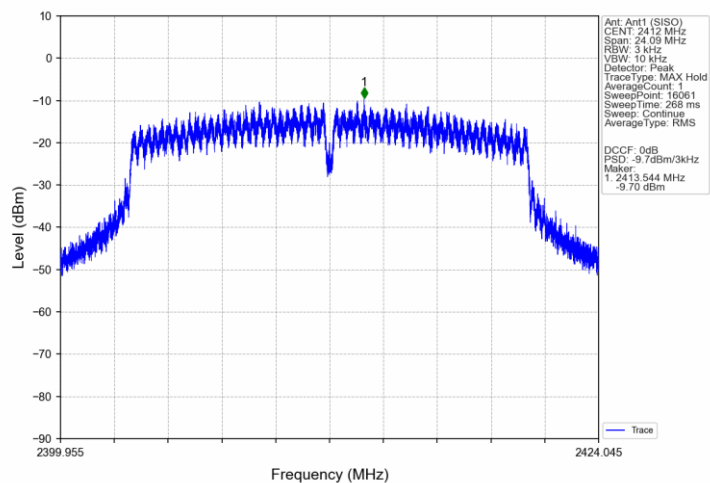
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



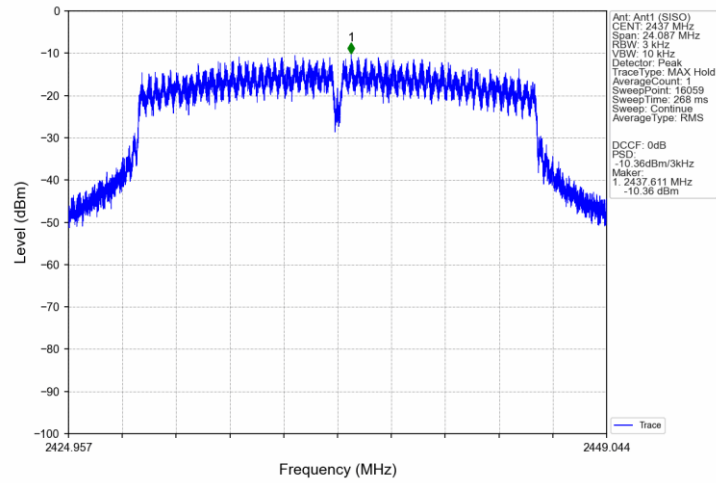
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



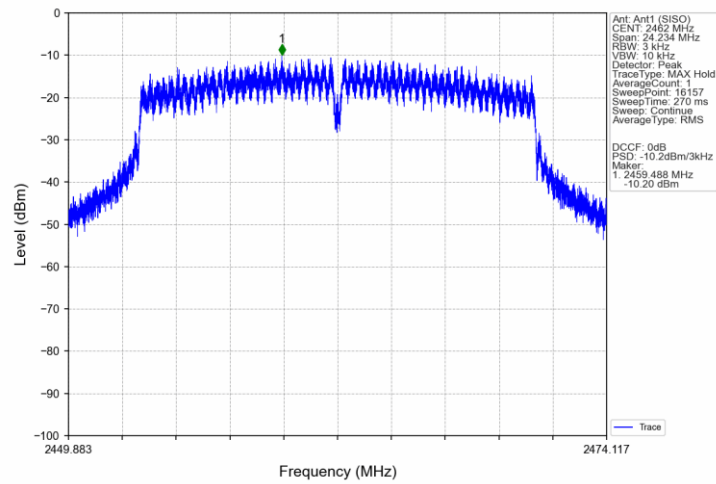
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



9.5 Spurious RF Conducted Emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

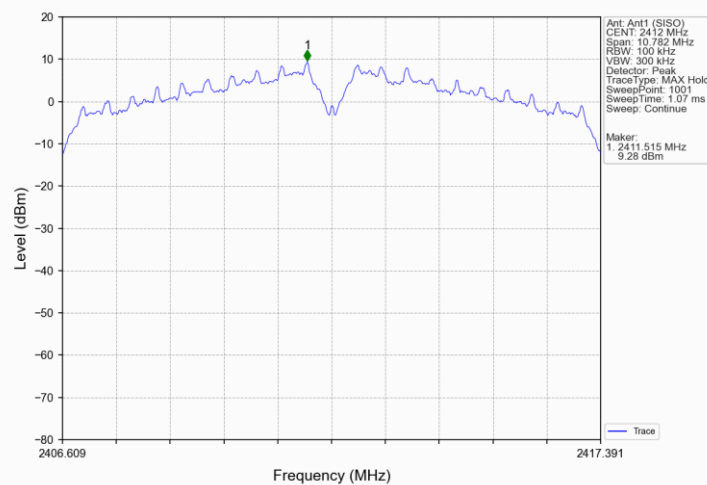
Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF conducted emissions

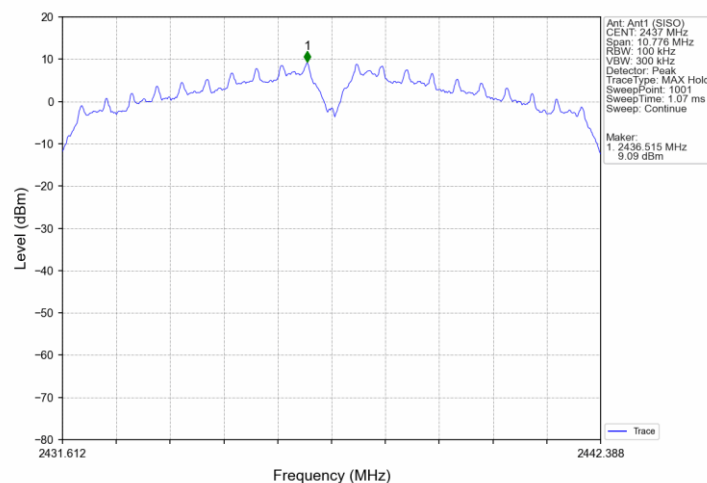
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.28	-10.72	Pass
		2437	1	9.09	-10.91	Pass
		2462	1	9.03	-10.97	Pass
802.11g	SISO	2412	1	9.39	-10.61	Pass
		2437	1	9.03	-10.97	Pass
		2462	1	8.85	-11.15	Pass
802.11n (HT20)	SISO	2412	1	4.46	-15.54	Pass
		2437	1	4.21	-15.79	Pass
		2462	1	3.99	-16.01	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

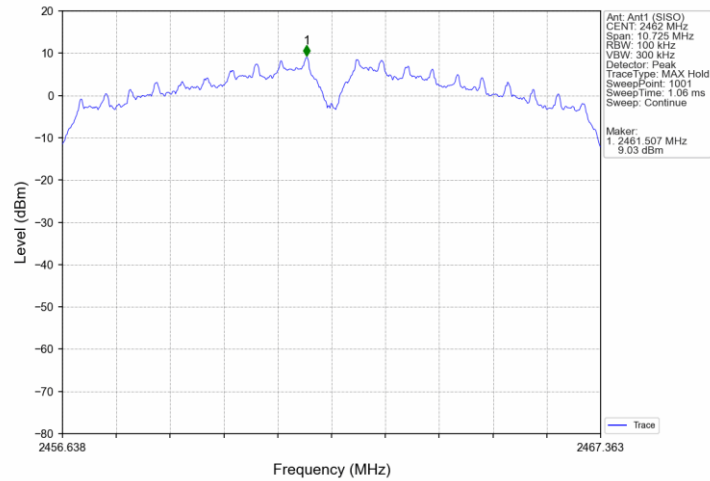
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



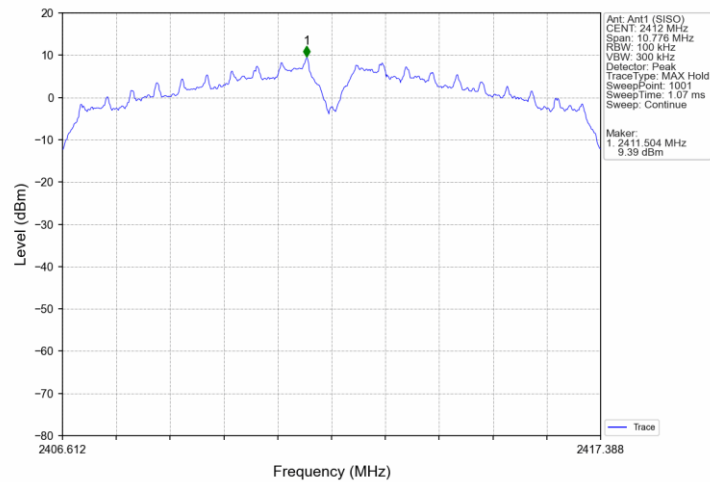
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



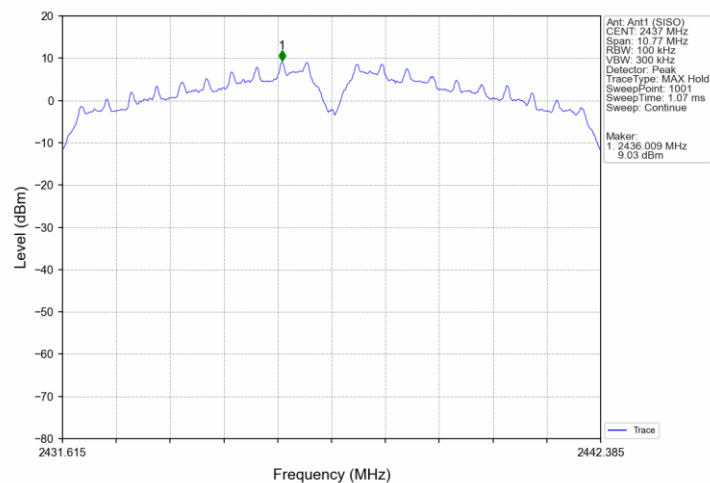
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



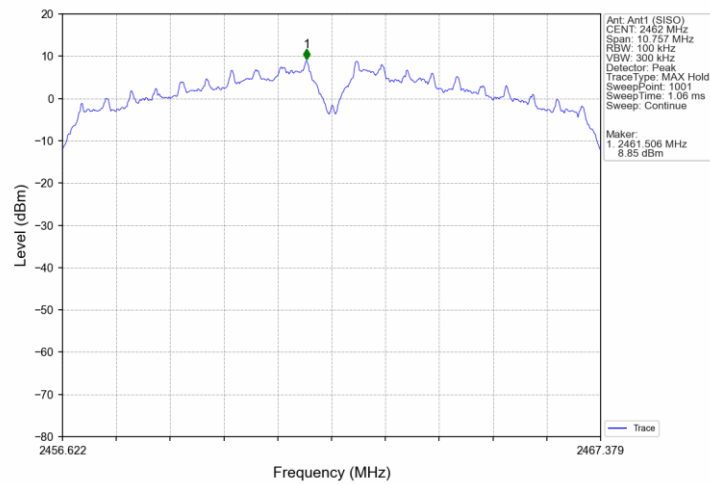
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



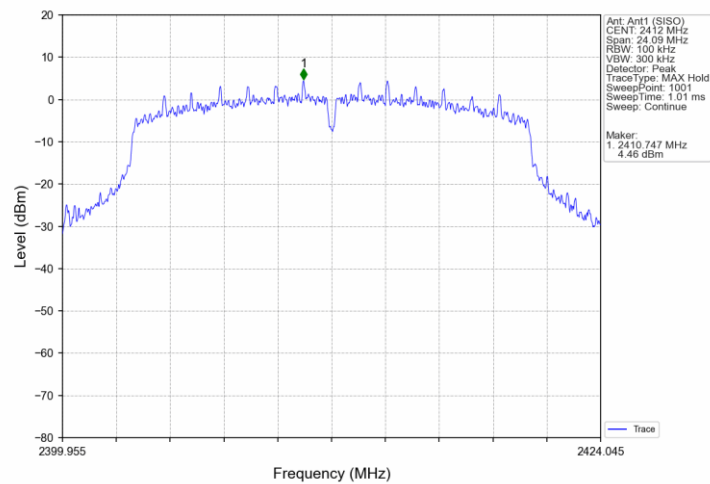
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



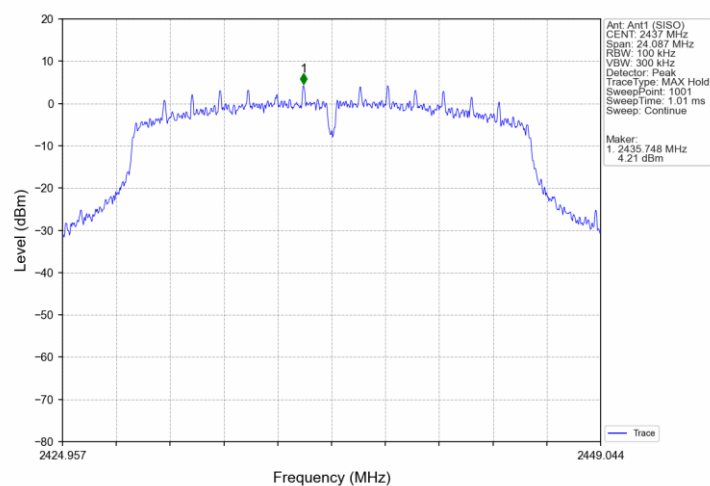
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



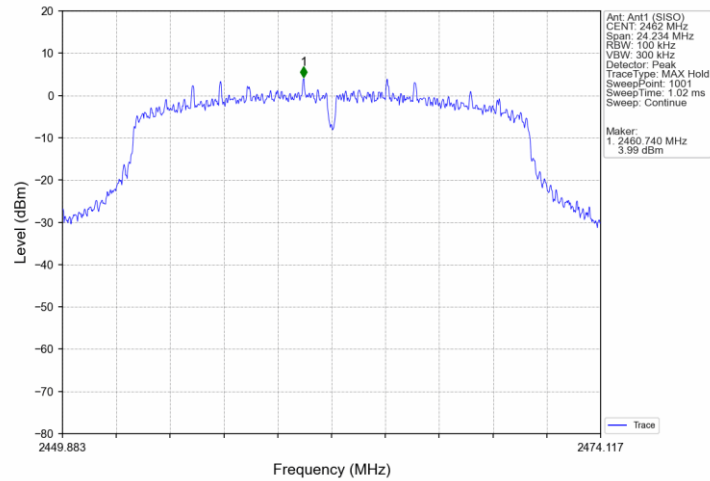
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



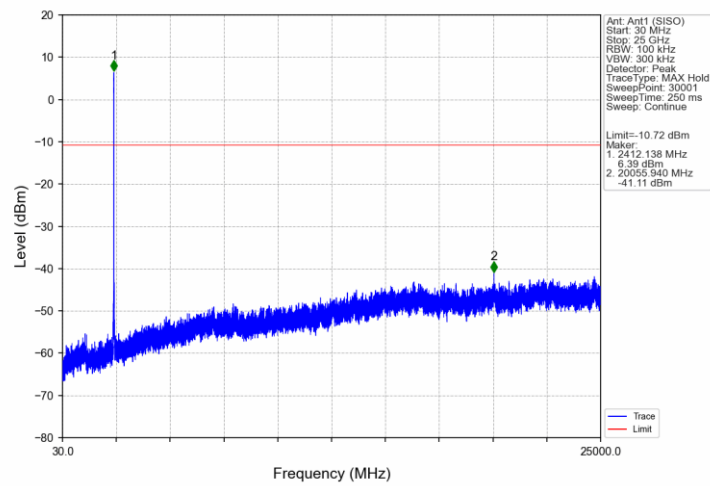
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



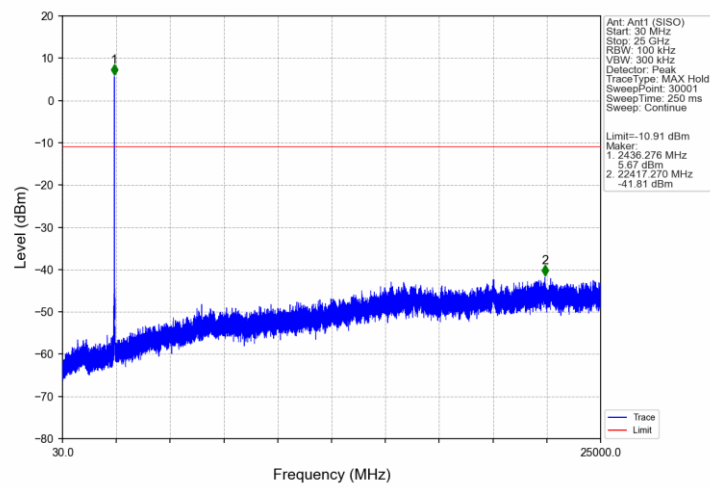
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



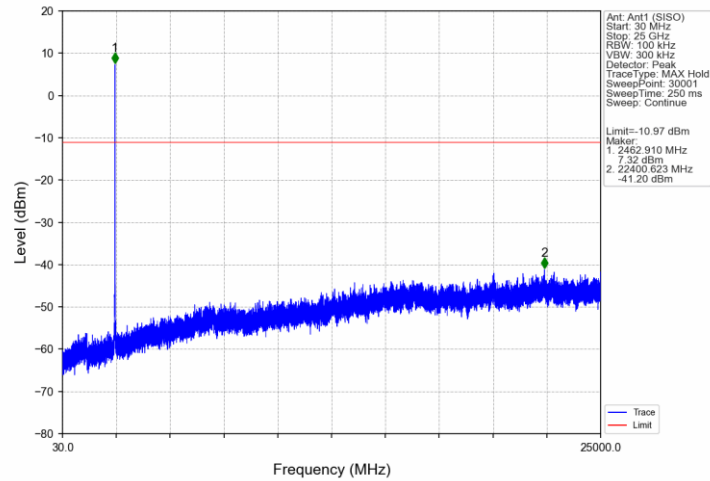
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



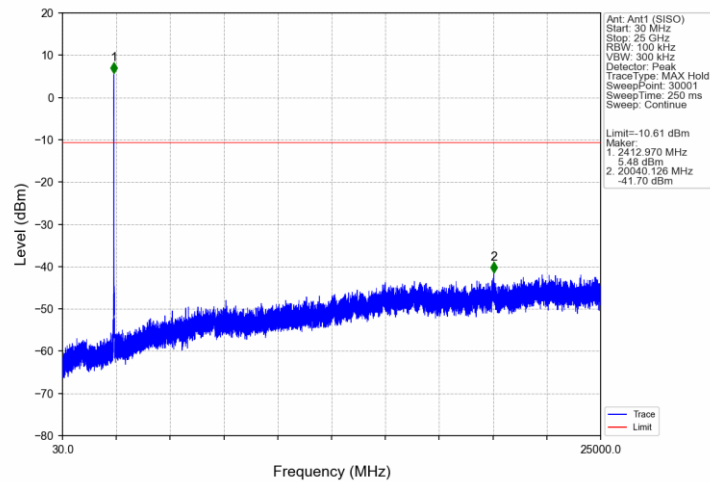
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



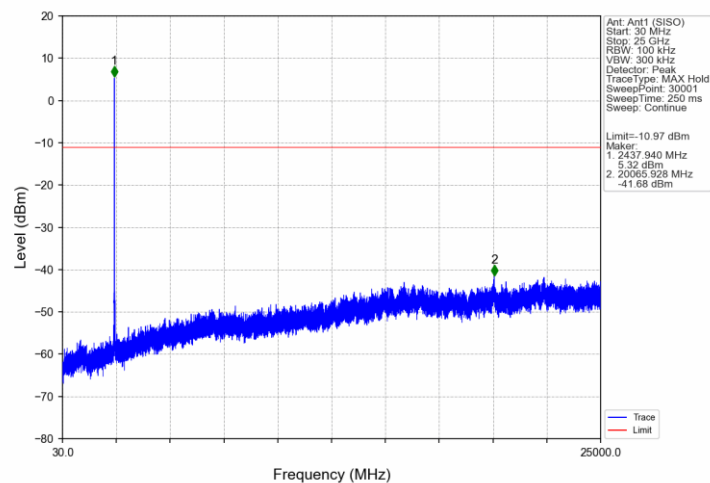
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



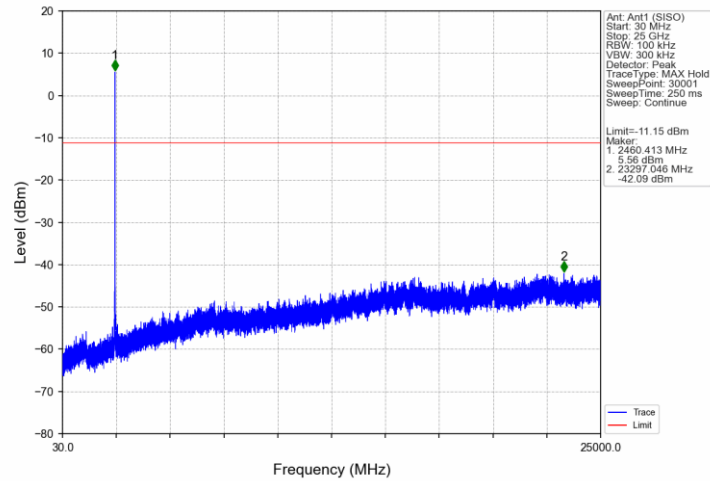
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



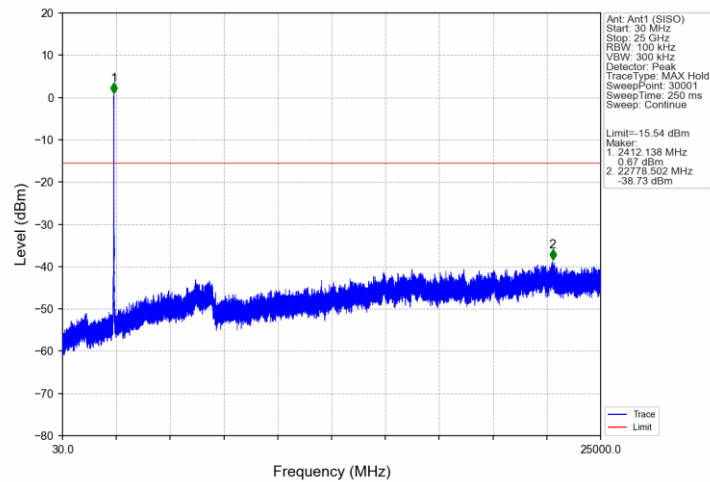
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



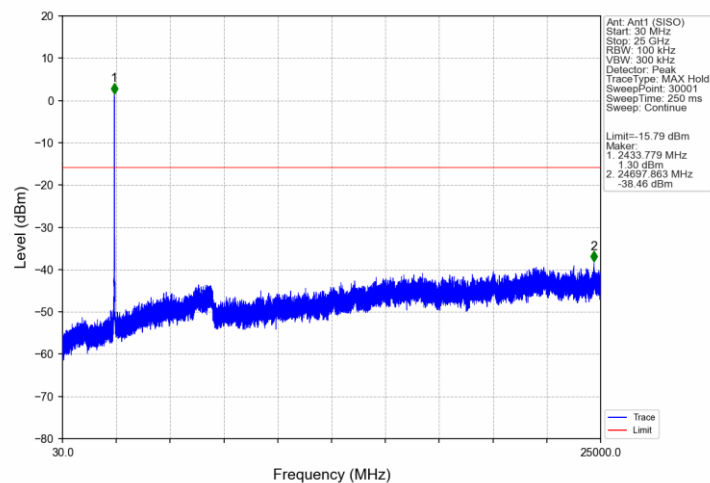
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



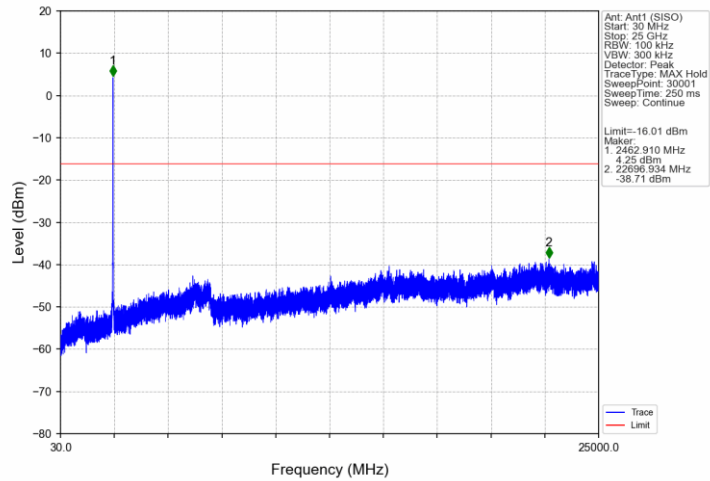
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



9.6 Band Edge Testing

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize, use the peak and delta measurement to record the result.
5. The level displayed must comply with the limit specified in this Section.
6. Repeat above procedures until all frequencies measured were complete and submit all the plots.

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that 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 RSS-247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

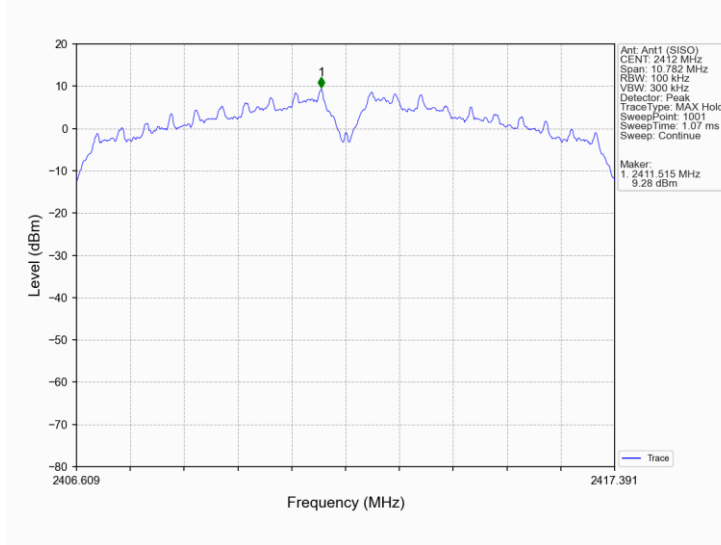
Frequency Range MHz	Limit (dBc)
30-25000	-20

Band edge testing

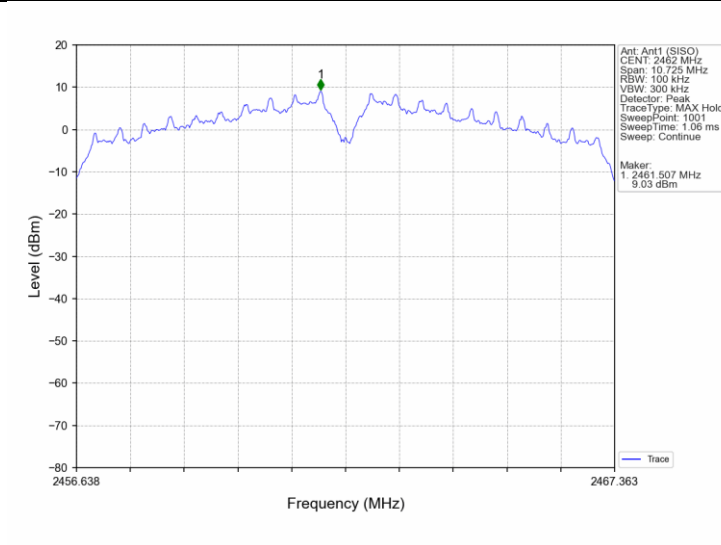
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.28	-10.72	Pass
		2462	1	9.03	-10.97	Pass
802.11g	SISO	2412	1	9.39	-10.61	Pass
		2462	1	8.85	-11.15	Pass
802.11n (HT20)	SISO	2412	1	4.46	-15.54	Pass
		2462	1	3.99	-16.01	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

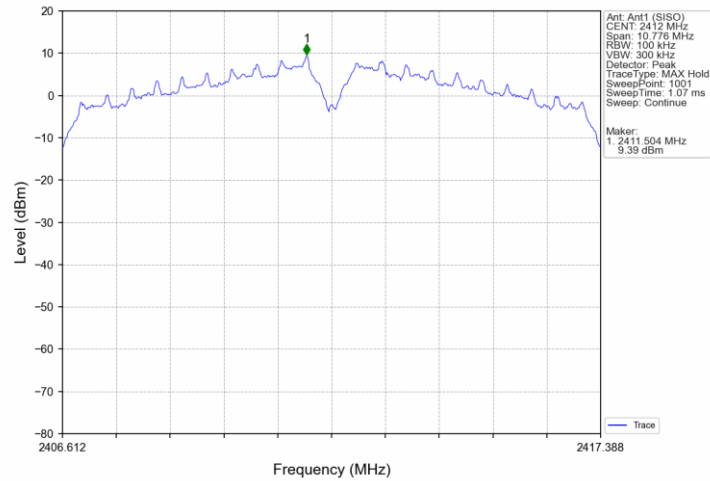
802.11b LCH 2412MHz Ant1 (SISO) NTN



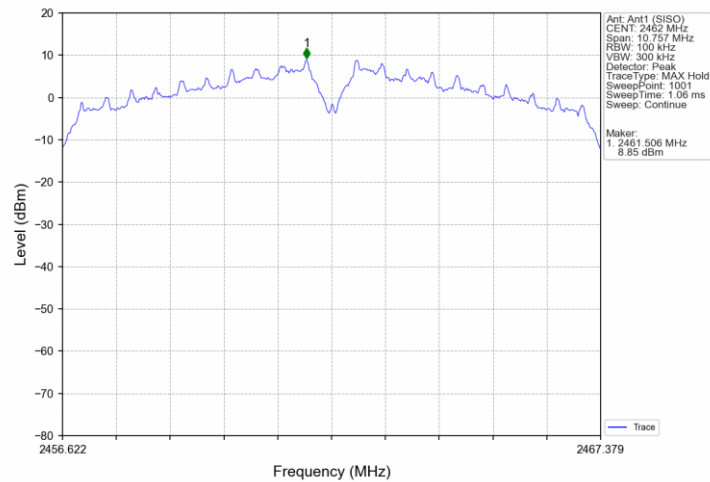
802.11b HCH 2462MHz Ant1 (SISO) NTN



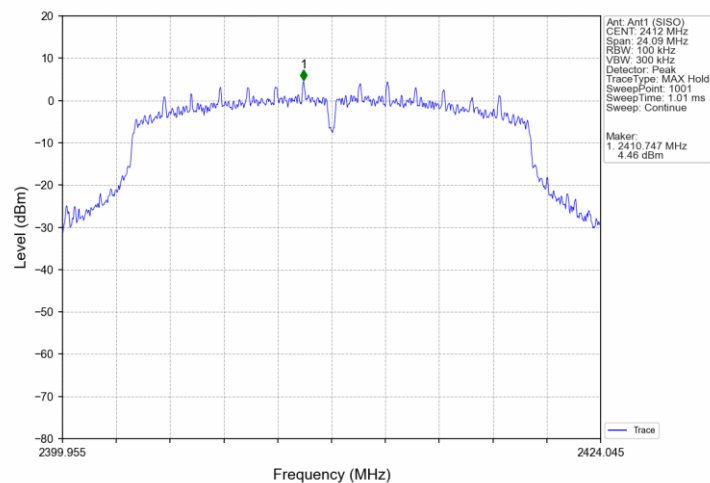
802.11g LCH 2412MHz Ant1 (SISO) NTN



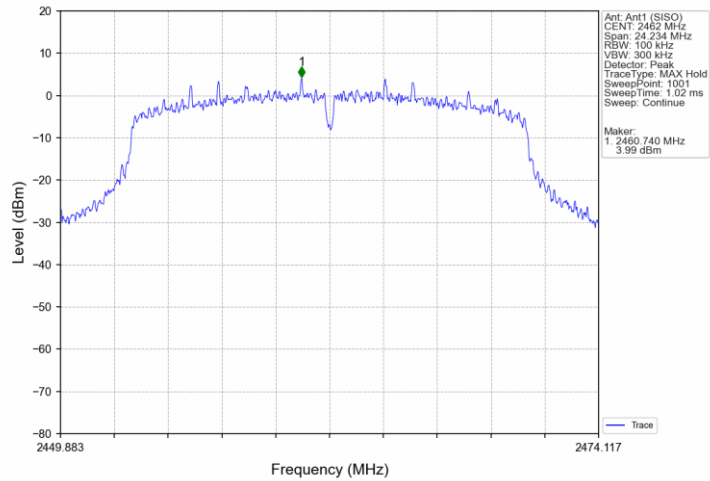
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



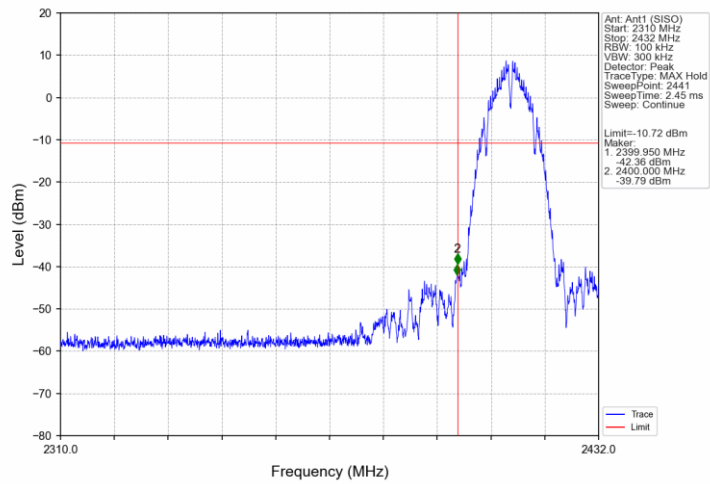
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



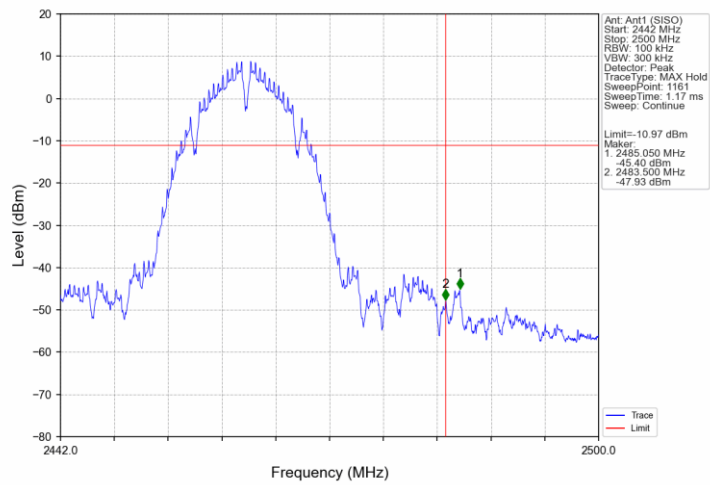
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



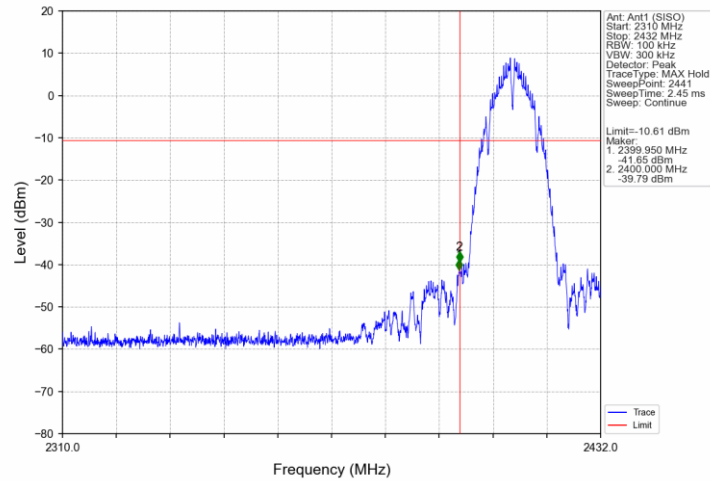
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



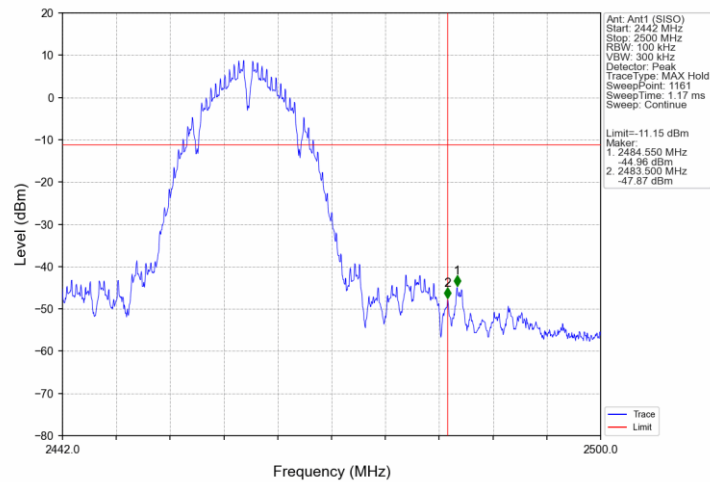
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



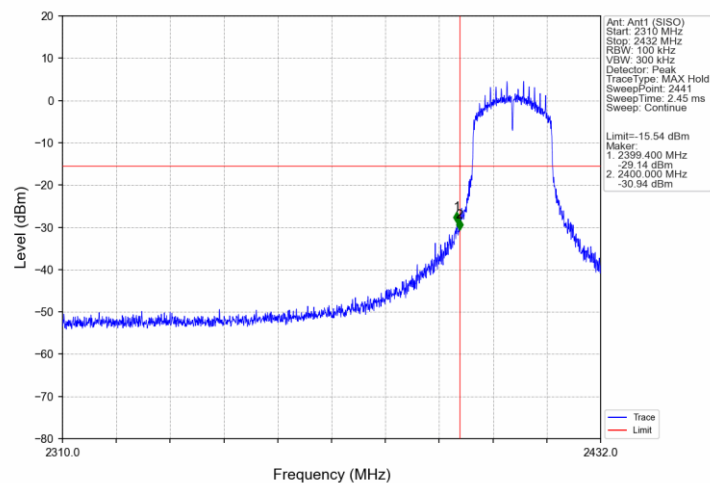
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



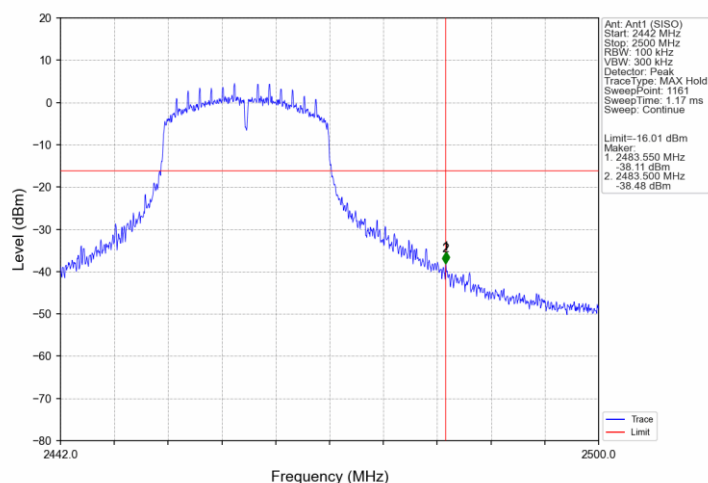
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



9.7 Spurious Radiated Emissions for Transmitter

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings According to C63.10
 - 1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz to 120kHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 - 2) For Peak unwanted emissions Above 1GHz:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
Procedures for average unwanted emissions measurements above 1GHz
 - a) RBW = 1MHz.
 - b) VBW \ [3 × RBW].
 - c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2.
Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
 - d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
 - e) Sweep time = auto.
 - f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
 - g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
 - 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission (AV) at frequency above 1GHz.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that 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 RSS 247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required. In addition, radiated emissions which fall in the restricted bands, as defined in RSS-Gen section 8.9, must also comply with the radiated emission limits specified in RSS-Gen section 8.10.

Frequency MHz	Field Strength $\mu\text{V/m}$	Field Strength dB $\mu\text{V/m}$	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	AV	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit 3m(dB $\mu\text{V/m}$)=Limit 300m(dB $\mu\text{V/m}$)+40Log(300m/3m) (Below 30MHz)

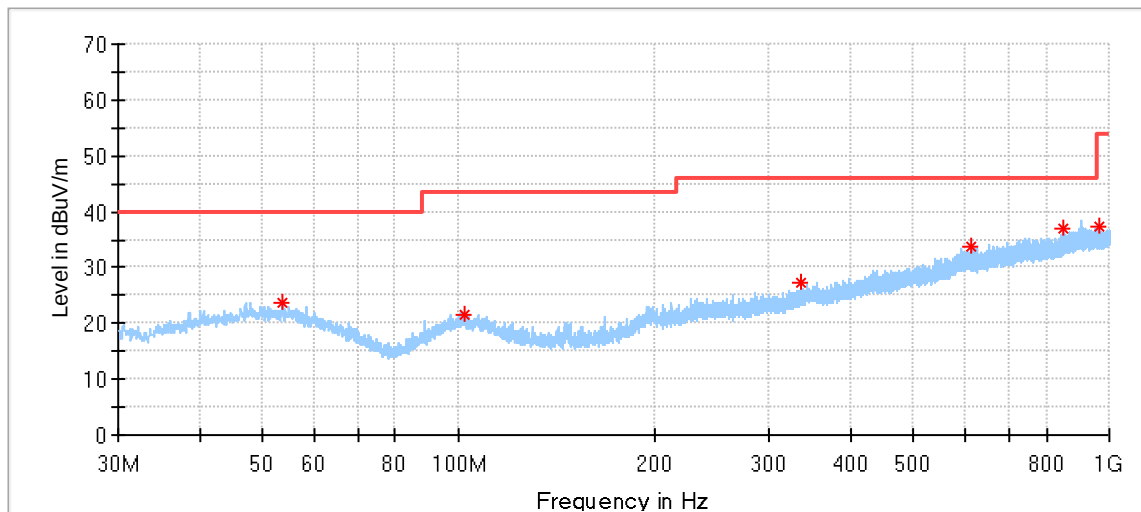
Note 2: Limit 3m(dB $\mu\text{V/m}$)=Limit 30m(dB $\mu\text{V/m}$)+40Log(30m/3m) (Below 30MHz)

Spurious Radiated Emissions for Transmitter

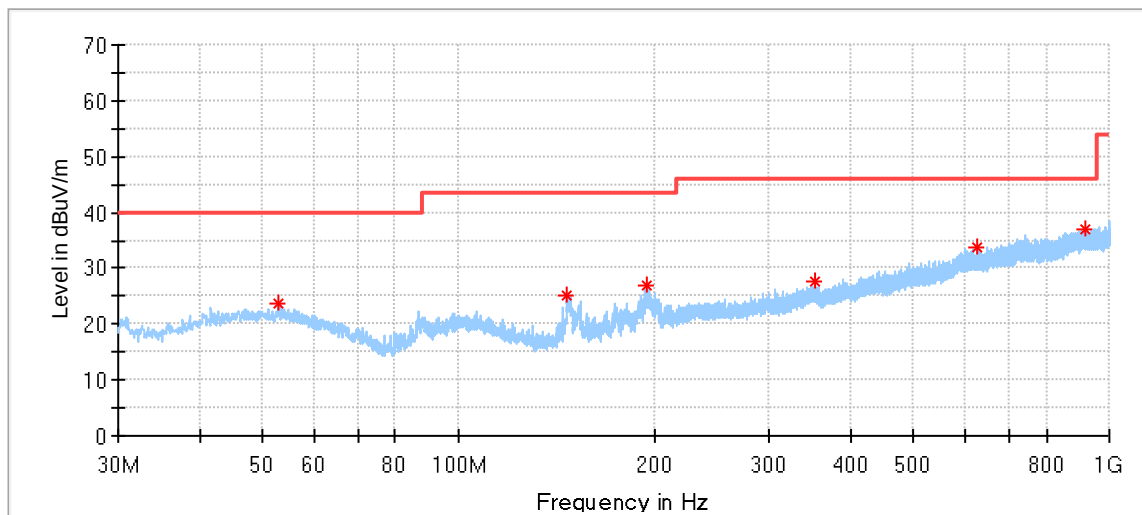
According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Only worst case of 802.11b mode test data was listed in this report.

30MHz – 1000MHz (worst case)

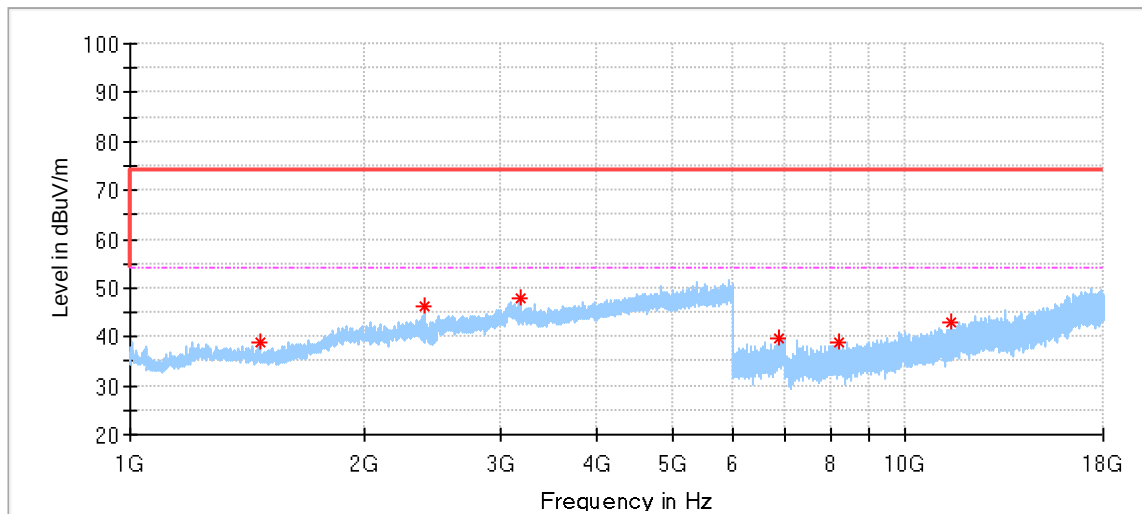


Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.603333	23.58	40.00	16.42	100.0	H	283.0	17.91
102.103333	21.70	43.50	21.80	100.0	H	267.0	16.42
335.927222	27.32	46.00	18.68	100.0	H	125.0	19.80
613.455000	33.69	46.00	12.31	100.0	H	340.0	25.45
849.272778	36.90	46.00	9.10	100.0	H	180.0	28.01
968.259444	37.30	54.00	16.70	100.0	H	172.0	29.05

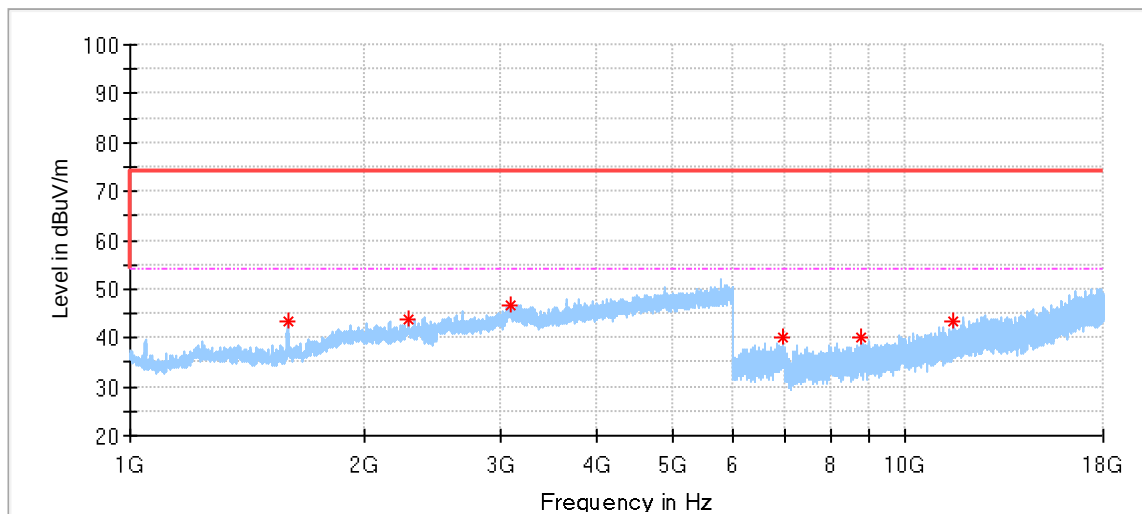


Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.741111	23.55	40.00	16.45	100.0	V	111.0	17.96
146.992778	24.98	43.50	18.52	100.0	V	229.0	12.46
195.277222	26.84	43.50	16.66	100.0	V	80.0	16.45
353.063889	27.80	46.00	18.20	100.0	V	22.0	20.38
624.448333	33.59	46.00	12.41	100.0	V	237.0	25.40
915.394444	36.92	46.00	9.08	100.0	V	103.0	29.07

1GHz -18GHz:
11b_2412MHz_Ant1:

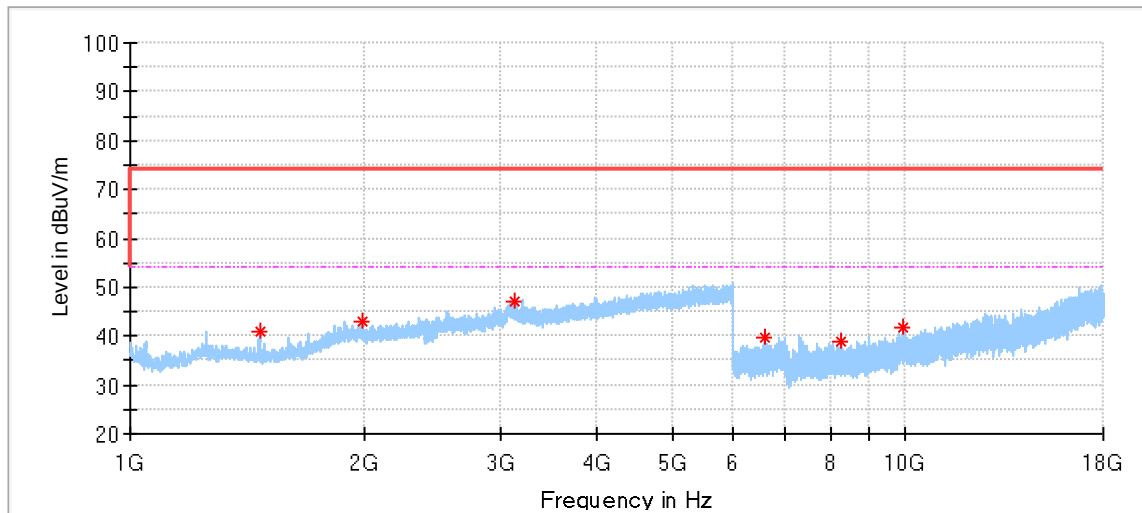


Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1468.000000	38.75	74.00	35.25	150.0	H	127.0	-7.67
2392.500000	46.08	74.00	27.92	150.0	H	9.0	-1.46
3188.000000	47.78	74.00	26.22	150.0	H	19.0	1.44
6872.000000	39.55	74.00	34.45	150.0	H	56.0	9.36
8186.500000	38.76	74.00	35.24	150.0	H	350.0	10.47
11423.000000	43.09	74.00	30.91	150.0	H	252.0	15.07

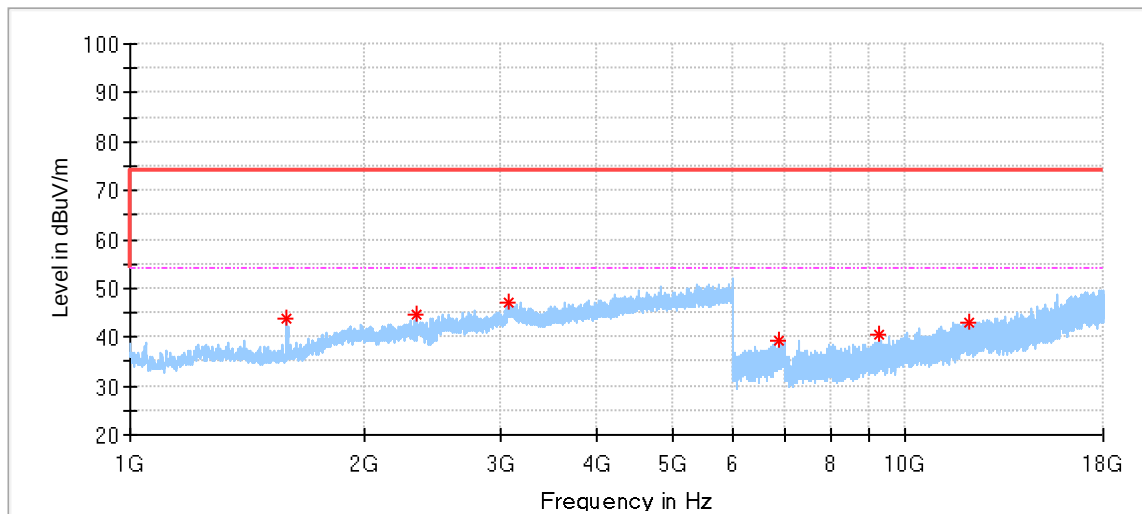


Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1595.000000	43.35	74.00	30.65	150.0	V	356.0	-7.13
2280.000000	43.89	74.00	30.11	150.0	V	83.0	-1.94
3101.500000	46.82	74.00	27.18	150.0	V	334.0	2.72
6947.500000	40.08	74.00	33.92	150.0	V	230.0	9.56
8742.500000	40.01	74.00	33.99	150.0	V	351.0	11.33
11494.000000	43.38	74.00	30.62	150.0	V	157.0	15.19

11b_2437MHz_Ant1:

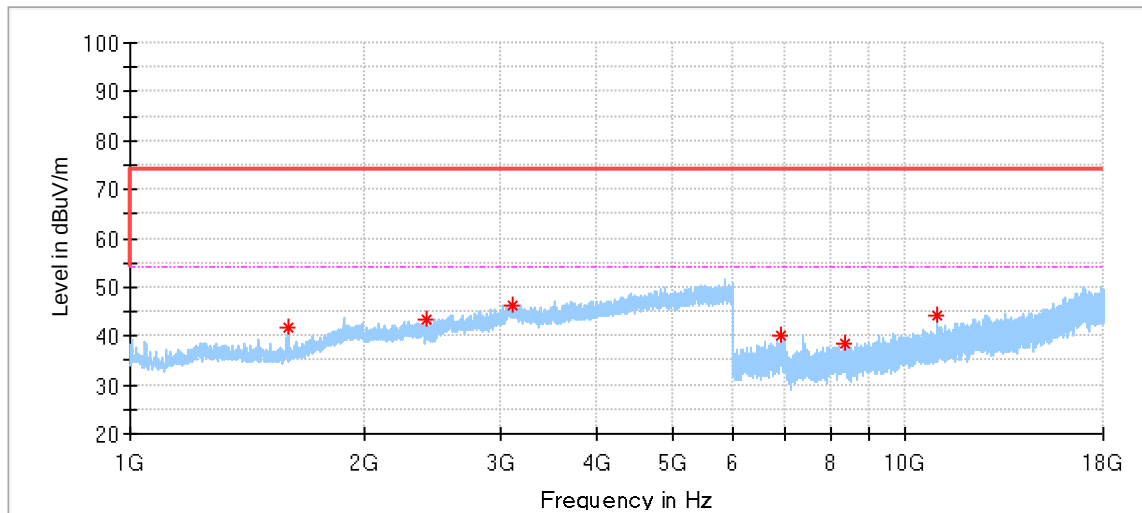


Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1468.000000	41.03	74.00	32.97	150.0	H	117.0	-7.67
1988.000000	42.84	74.00	31.16	150.0	H	70.0	-2.52
3125.500000	47.01	74.00	26.99	150.0	H	177.0	2.08
6569.000000	39.60	74.00	34.40	150.0	H	131.0	8.57
8238.000000	38.83	74.00	35.17	150.0	H	327.0	10.39
9944.500000	41.67	74.00	32.33	150.0	H	229.0	13.03

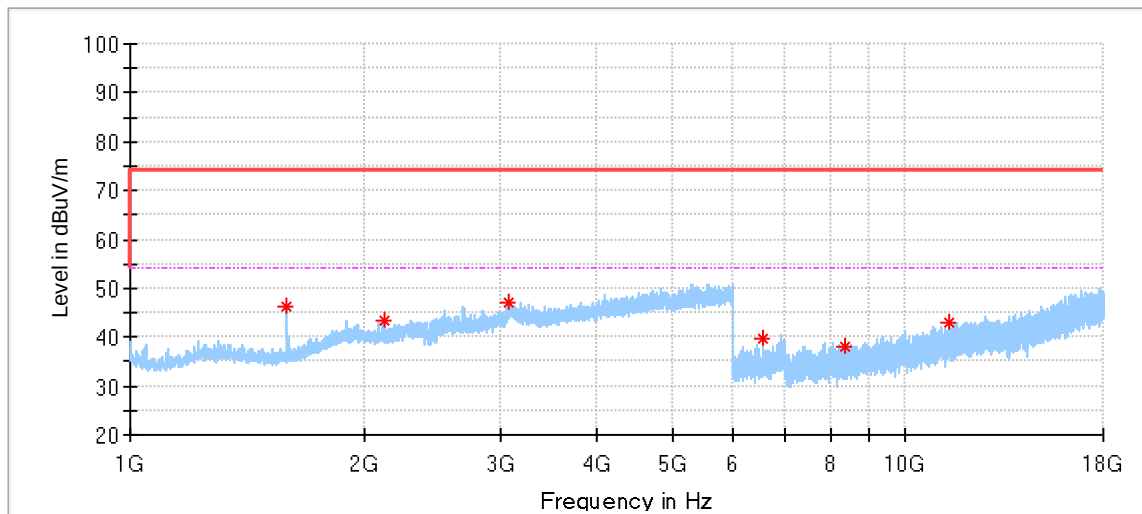


Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1593.000000	43.73	74.00	30.27	150.0	V	356.0	-7.17
2343.500000	44.65	74.00	29.35	150.0	V	22.0	-1.86
3086.000000	46.91	74.00	27.09	150.0	V	153.0	2.40
6871.500000	39.29	74.00	34.71	150.0	V	81.0	9.35
9221.000000	40.51	74.00	33.49	150.0	V	56.0	12.08
12048.500000	42.83	74.00	31.17	150.0	V	108.0	16.18

11b_2462MHz_Ant1:



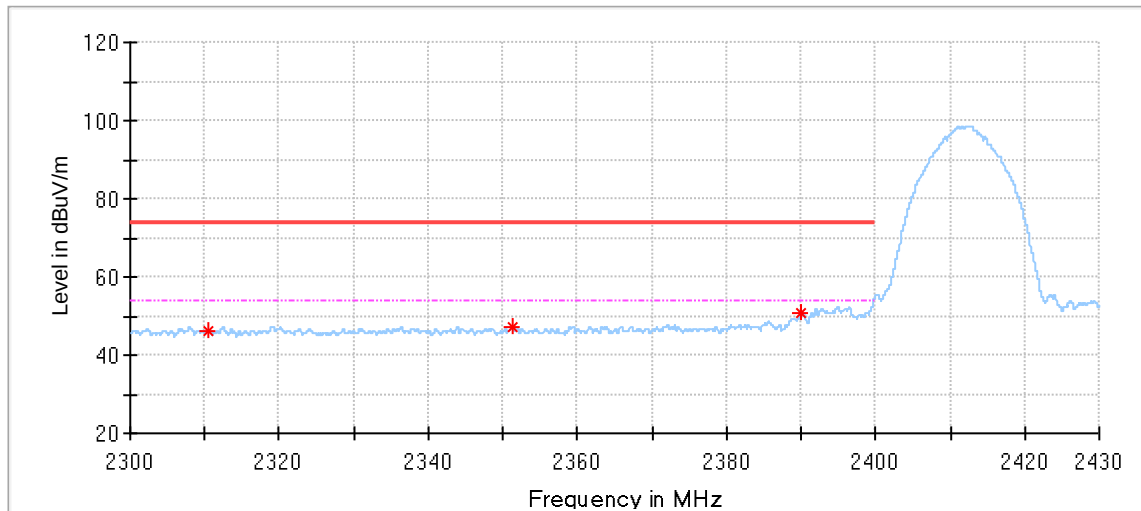
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1597.500000	41.58	74.00	32.42	150.0	H	347.0	-7.11
2408.500000	43.47	74.00	30.53	150.0	H	153.0	-1.20
3110.500000	46.39	74.00	27.61	150.0	H	34.0	2.43
6913.000000	40.27	74.00	33.73	150.0	H	352.0	9.47
8345.500000	38.45	74.00	35.55	150.0	H	4.0	10.58
10971.000000	44.10	74.00	29.90	150.0	H	56.0	14.02



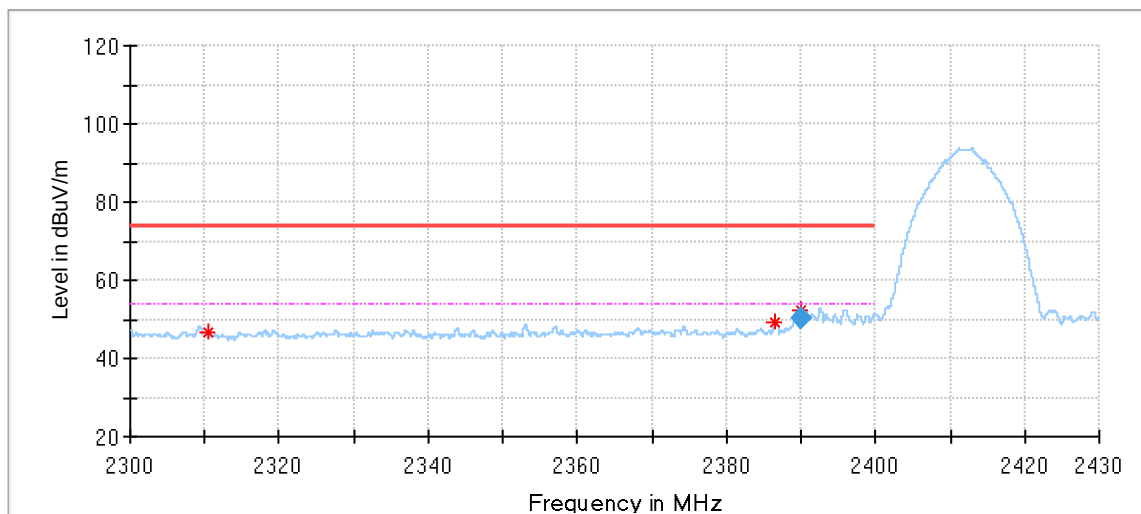
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1593.000000	46.18	74.00	27.82	150.0	V	0.0	-7.17
2131.500000	43.25	74.00	30.75	150.0	V	226.0	-2.78
3080.500000	47.22	74.00	26.78	150.0	V	6.0	2.26
6560.000000	39.82	74.00	34.18	150.0	V	203.0	8.58
8374.000000	38.17	74.00	35.84	150.0	V	351.0	10.60
11376.500000	42.85	74.00	31.15	150.0	V	351.0	15.10

Restricted band band-edge test result as below:

11b_2412MHz_Ant1:



Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.426000	46.29	74.00	27.72	150.0	H	4.0	-2.19
2351.233000	47.19	74.00	26.81	150.0	H	150.0	-2.43
2390.051000	50.58	74.00	23.43	150.0	H	351.0	-1.92

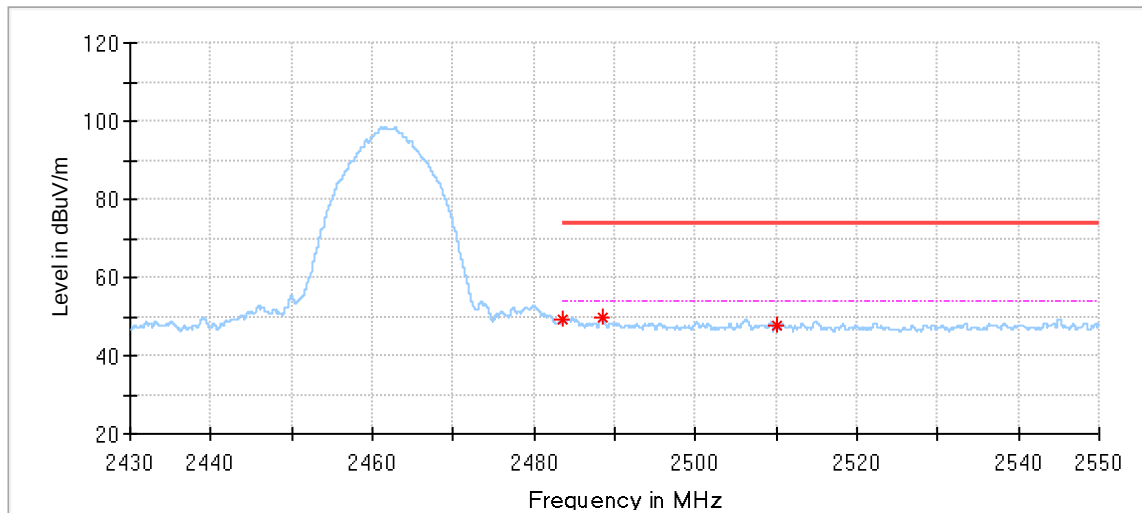
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.413000	46.51	74.00	27.49	150.0	V	173.0	-2.19
2386.476000	49.25	74.00	24.75	150.0	V	162.0	-1.98
2390.025000	52.43	74.00	21.57	150.0	V	331.0	-1.92

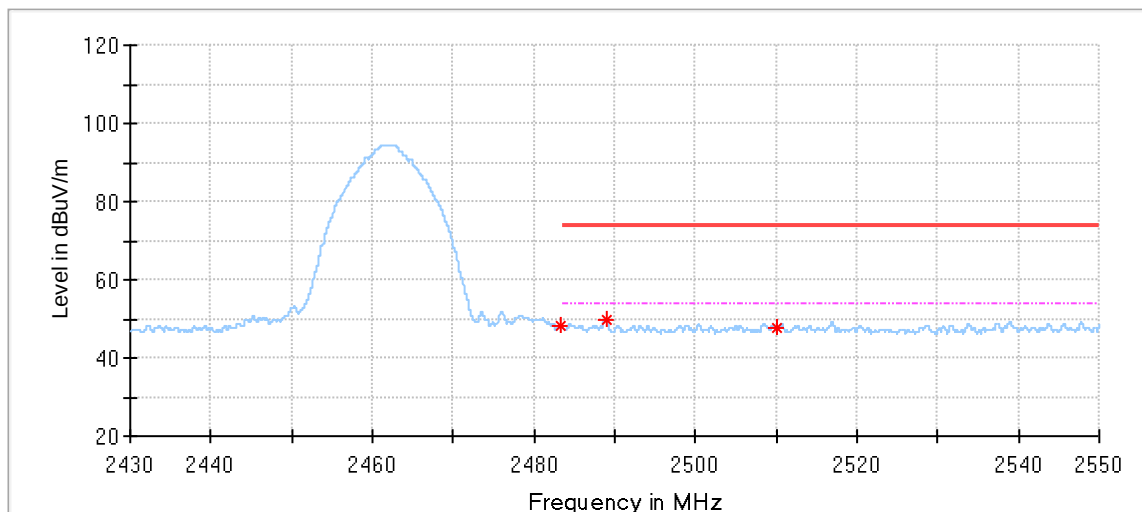
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.025000	50.19	54.00	3.81	150.0	V	331.0	-1.92

11b_2462MHz_Ant1:

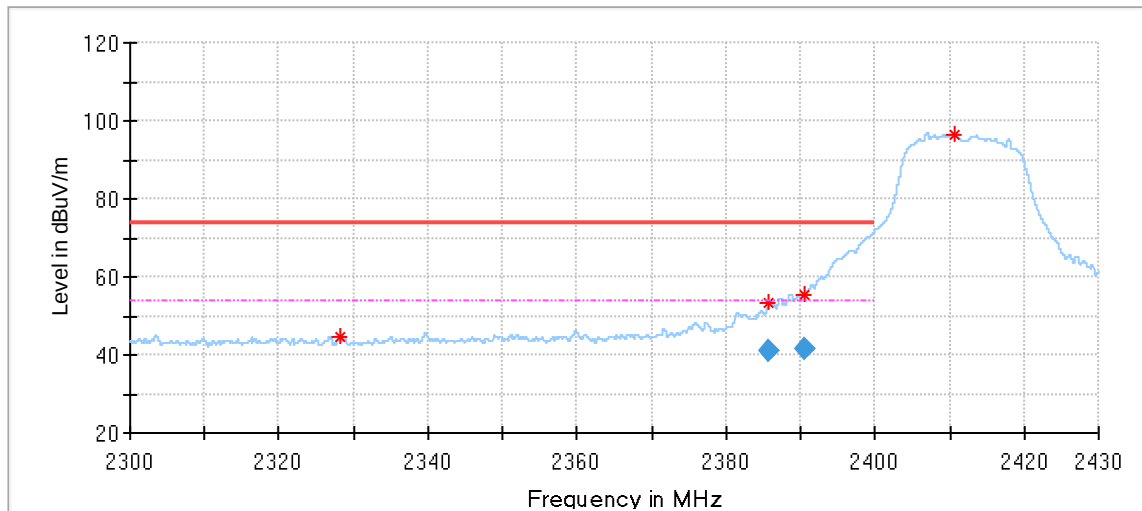


Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.592000	49.28	74.00	24.72	150.0	H	7.0	-1.45
2488.524000	49.69	74.00	24.31	150.0	H	0.0	-1.46
2510.028000	47.65	74.00	26.35	150.0	H	269.0	-1.45



Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.400000	48.36	---	---	150.0	V	12.0	-1.45
2488.908000	49.96	74.00	24.04	150.0	V	345.0	-1.46
2510.124000	47.74	74.00	26.26	150.0	V	301.0	-1.45

11g_2412MHz_Ant1:

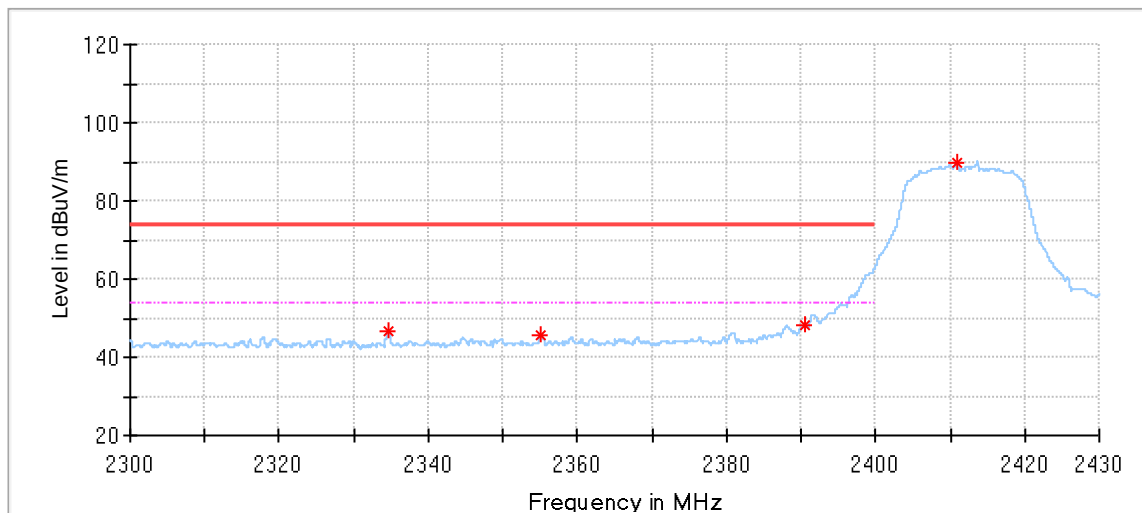


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2328.093000	44.46	74.00	29.54	150.0	H	238.0	-2.33
2385.800000	53.25	74.00	20.75	150.0	H	302.0	-1.99
2390.506000	55.38	74.00	18.62	150.0	H	302.0	-1.91
2410.617000	96.37	---	---	150.0	H	302.0	-1.60

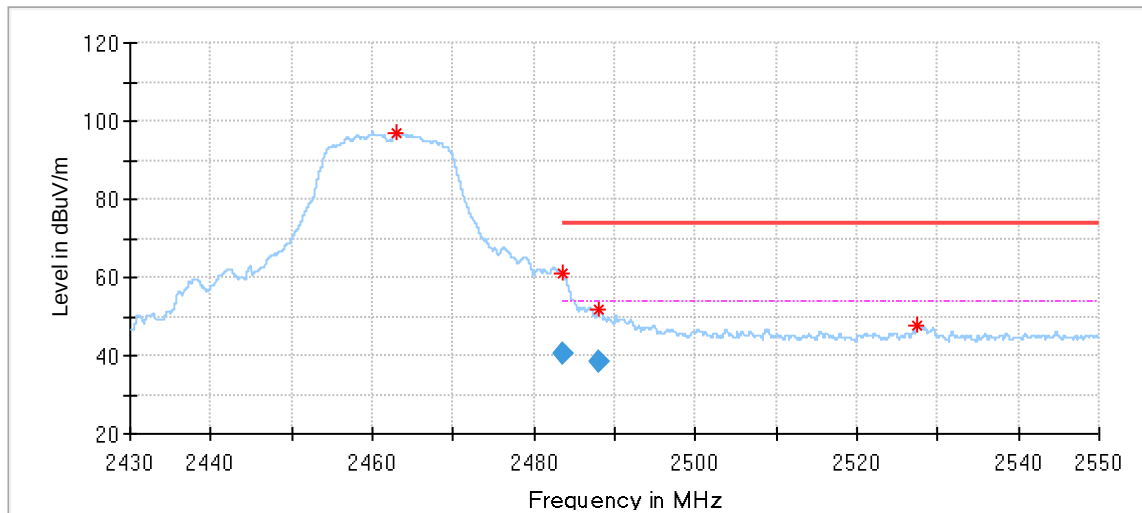
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.800000	40.81	54.00	13.19	150.0	H	302.0	-1.99
2390.506000	41.68	54.00	12.32	150.0	H	302.0	-1.91



Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2334.671000	46.42	74.00	27.58	150.0	V	2.0	-2.36
2355.068000	45.63	74.00	28.37	150.0	V	14.0	-2.41
2390.506000	47.97	74.00	26.03	150.0	V	316.0	-1.91
2410.838000	89.82	---	---	150.0	V	25.0	-1.59

11g_2462MHz_Ant1:

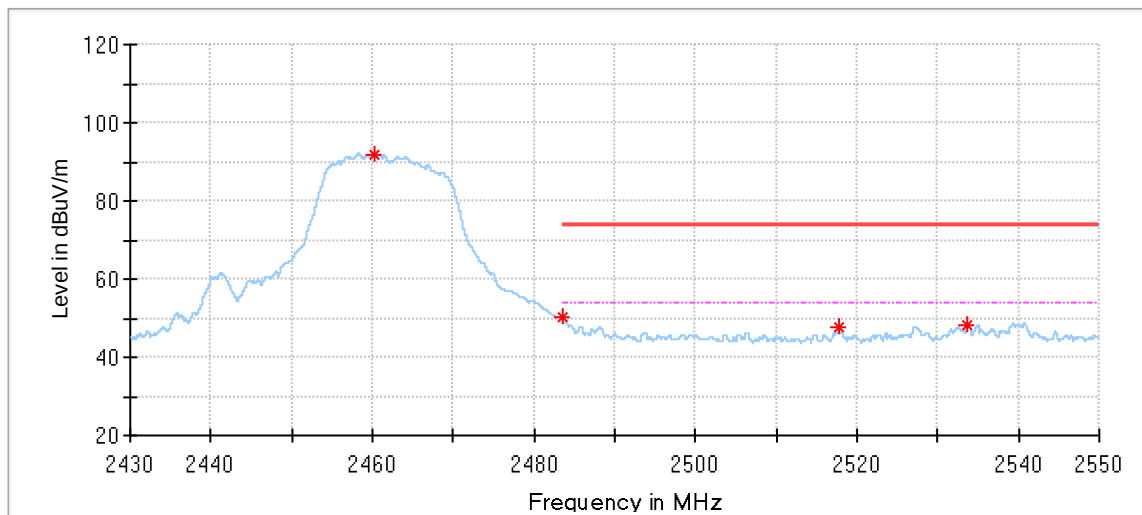


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2462.940000	96.92	---	---	150.0	H	281.0	-1.46
2483.508000	60.90	74.00	13.10	150.0	H	293.0	-1.45
2488.128000	51.95	74.00	22.05	150.0	H	293.0	-1.46
2527.476000	47.79	74.00	26.21	150.0	H	14.0	-1.34

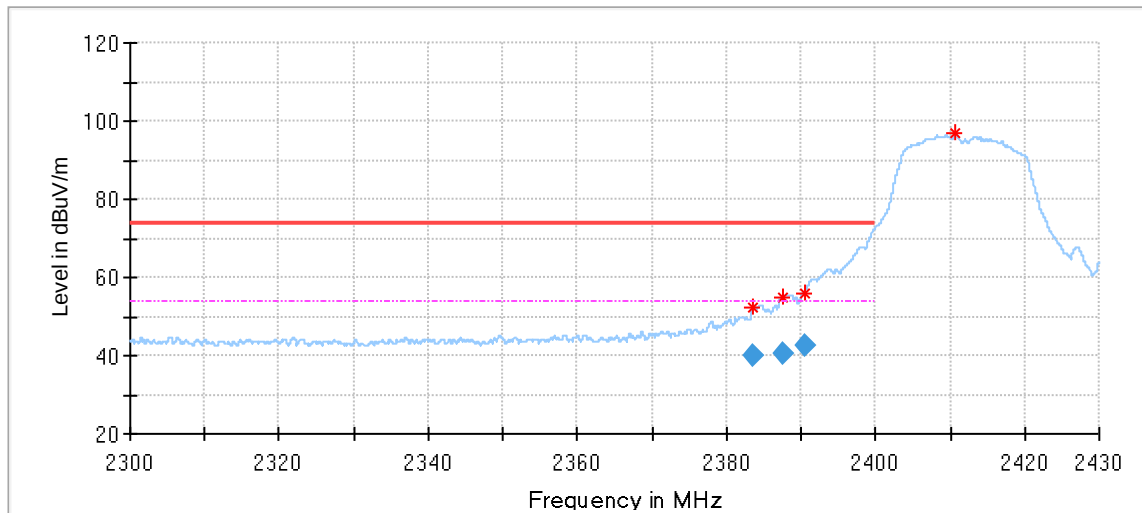
Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.508000	40.46	54.00	13.54	150.0	H	293.0	-1.45
2488.128000	38.58	54.00	15.42	150.0	H	293.0	-1.46



Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2460.132000	92.04	---	---	150.0	V	214.0	-1.47
2483.508000	50.06	74.00	23.94	150.0	V	224.0	-1.45
2517.816000	47.74	74.00	26.26	150.0	V	203.0	-1.43
2533.692000	48.33	74.00	25.67	150.0	V	150.0	-1.24

11n20_2412MHz_Ant1:

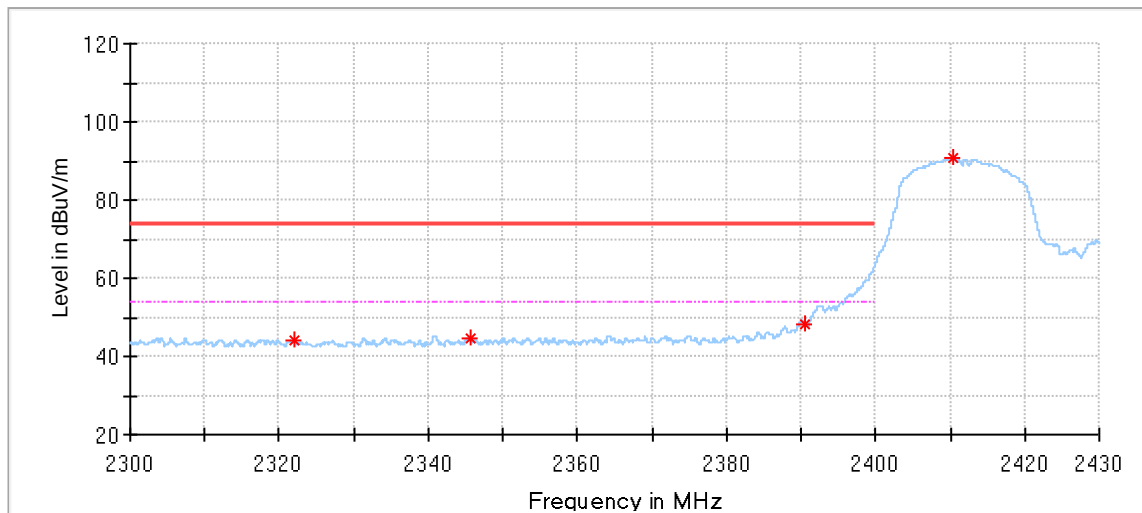


Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2383.447000	52.15	74.00	21.85	150.0	H	292.0	-2.02
2387.451000	55.12	74.00	18.88	150.0	H	304.0	-1.96
2390.493000	56.14	74.00	17.86	150.0	H	277.0	-1.91
2410.591000	96.67	---	---	150.0	H	304.0	-1.60

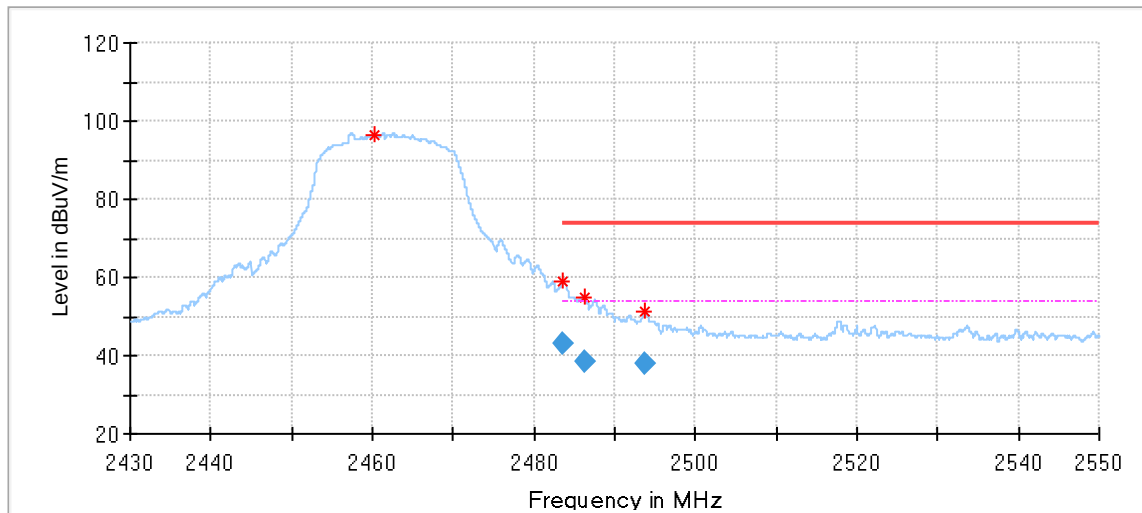
Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2383.447000	39.80	54.00	14.20	150.0	H	292.0	-2.02
2387.451000	40.50	54.00	13.50	150.0	H	304.0	-1.96
2390.493000	42.50	54.00	11.50	150.0	H	277.0	-1.91



Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2321.957000	44.32	74.00	29.68	150.0	V	76.0	-2.28
2345.565000	44.53	74.00	29.47	150.0	V	0.0	-2.41
2390.519000	48.39	74.00	25.61	150.0	V	314.0	-1.91
2410.513000	90.55	---	---	150.0	V	207.0	-1.60

11n20_2462MHz_Ant1:

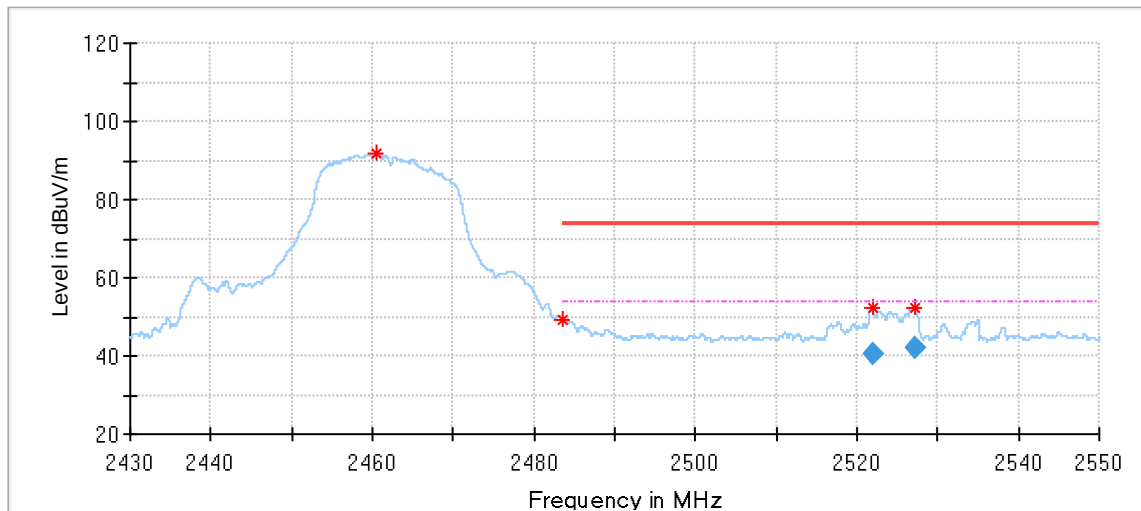


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2460.324000	96.22	---	---	150.0	H	289.0	-1.47
2483.616000	58.84	74.00	15.16	150.0	H	300.0	-1.45
2486.352000	54.81	74.00	19.19	150.0	H	321.0	-1.45
2493.756000	51.14	74.00	22.86	150.0	H	310.0	-1.47

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.616000	43.28	54.00	10.72	150.0	H	300.0	-1.45
2486.352000	38.71	54.00	15.29	150.0	H	321.0	-1.45
2493.756000	37.80	54.00	16.20	150.0	H	310.0	-1.47



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2460.600000	92.00	---	---	150.0	V	218.0	-1.47
2483.508000	49.13	74.00	24.87	150.0	V	218.0	-1.45
2521.860000	52.05	74.00	21.95	150.0	V	120.0	-1.42
2527.212000	52.56	74.00	21.44	150.0	V	120.0	-1.35

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2521.860000	40.50	54.00	13.50	150.0	V	120.0	-1.42
2527.212000	42.10	54.00	11.90	150.0	V	120.0	-1.35

Remark:

- (1) Data of measurement within frequency range 9kHz-30MHz and 18-40GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.
- (2) Corrected Amplitude = Read level + Corrector factor
Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

10 Test Equipment List

Radiated Emission Test (9kHz-30MHz) (SAC-3 #1)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2025-5-13
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2025-7-24
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.02	N/A	N/A

Radiated Emission Test (30MHz-1GHz) (SAC-3 #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2026-2-11
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2025-5-11
Cable	OUQIAO	18DLB5-NMNM-7000	68-4-90-19-006-A22	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Radiated Emission Test (1GHz-18GHz) (SAC-3 #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2026-3-10
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2025-5-11
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2025-5-11
Cable	OUQIAO	18DLB5-NMNM-7000	68-4-90-19-006-A22	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Radiated Emission Test (18GHz-40GHz) (SAC-3 #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2025-7-2
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2025-7-17
Cable	JUNFLON	MWX241	68-4-90-19-006-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Conducted Emission Test (AMN)(CSR #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2025-5-13
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2025-5-12
LISN	Rohde & Schwarz	ENV4200	68-4-87-14-001	100249	1	2025-5-13
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2025-5-11
Cable	OUQIAO	RG142	68-4-90-19-005-A20	----	----	----
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35.02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2025-10-15

RF Test System

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2025-5-11
RF Meas. and Switch Matrix Unit	TST PASS	TSCB3023R2	68-4-93-23-001	2811685c	1	2025-5-11
Cable	JUNFLON	J12J103539	68-4-90-19-003-A20	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A21	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A22	----	----	----
Test software	TST PASS	TST PASS	68-4-93-23-001-A03	Version 2.0	N/A	N/A
Test software	Tonscend	JS1120-3	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2025-10-15

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber (68-4-90-14-001) 9kHz-30MHz	4.69dB
Uncertainty for Radiated Emission in 3m chamber (68-4-90-14-001) 30MHz-1000MHz	Horizontal: 4.78dB; Vertical: 5.85dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 5.40dB; Vertical: 5.40dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 18GHz-40GHz	Horizontal: 5.29dB; Vertical: 5.29dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.31dB

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.

---THE END OF REPORT---