

FCC/ISED - TEST REPORT

Report Number : **64.790.21.05634.02-R1** Date of Issue: 2024-07-23

Model/HVIN : **US-SK108**

Product Type : Smart Kit

Applicant : GD Midea Air-Conditioning Equipment Co., Ltd.

Address : Lingang Road, Beijiao, Shunde 528311 Foshan, Guangdong, China

Manufacturer : GD Midea Air-Conditioning Equipment Co., Ltd.

Address : Lingang Road, Beijiao, Shunde 528311 Foshan, Guangdong, China

Production Facility : GD Midea Air-Conditioning Equipment Co., Ltd.

Address : Lingang Road, Beijiao, Shunde 528311 Foshan, Guangdong, China

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including
Appendices : **60**

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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 No.: 514049

FCC Designation Number: CN5009

ISED CAB identifier: CN0077

IC Registration No.: 10320A

3 Description of the Equipment Under Test

Product:	Smart Kit
Model no.:	US-SK108
Product Marketing Name (PMN):	Smart Kit
Hardware Version Identification No. (HVIN):	US-SK108
FCC ID:	2ADQOMDNA22
IC:	12575A-MDNA22
Options and accessories:	NIL
Ratings:	DC 5V (by USB port)
RF Transmission Frequency:	2412MHz - 2462MHz for 2.4GHz Wi-Fi
No. of Operated Channel:	11
Modulation:	802.11b: BPSK, QPSK, CCK 802.11g: BPSK, QPSK, 16-QAM, 64-QAM 802.11n: BPSK, QPSK, 16-QAM, 64-QAM
Antenna Type:	PCB Antenna
Antenna Gain:	3.15dBi max.
Description of the EUT:	Products are smart kits with Wi-Fi and Bluetooth function, they are only can be used in Midea Group's household appliances for controlling function. It can not connet to computer for any other function.

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: 23.2°C H: 51.5%
§15.247 (b) (3) & RSS-247 5.4(d)	Conducted peak output power	Site 1	☒	☐	☐	T: 23.2°C H: 51.5%
RSS-247 5.4(d)	Equivalent Isotropic Radiated Power	Site 1	☒	☐	☐	T: 23.2°C H: 51.5%
§15.247(a)(2) & RSS-247 5.2(a) & RSS-GEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	Site 1	☒	☐	☐	T: 23.2°C H: 51.5%
§15.247(e) & RSS-247 5.2(b)	Power spectral density	Site 1	☒	☐	☐	T: 23.2°C H: 51.5%
§15.247(d) & RSS-247 5.5	Spurious RF conducted emissions	Site 1	☒	☐	☐	T: 23.2°C H: 51.5%
§15.247(d) & RSS-247 5.5	Band edge	Site 1	☒	☐	☐	T: 23.2°C H: 51.5%
§15.247(d) & §15.209 & §15.205 & RSS-247 5.5 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	Site 1	☒	☐	☐	T: 24.7°C H: 49.3%
§15.203 & RSS-Gen 6.8	Antenna requirement	See note 2	☒	☐	☐	--

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a PCB Antenna 3.15dBi max. According 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

This report is used to apply C2PC on new model US-SK108, which is based on the previous report 64.790.21.05634.01-R1 for following technical changes:

- Remove the plastic enclosure and USB interface, and change to SMT interface type.
- Add a metal shield covering all components.

So in this application the test data of conducted emission, conducted output power and radiated spurious emissions in this report is new test data to verify the compliance of these changes, other test data were refer from 64.790.21.05634.01-R1 of original application and these test data are still effective and representative of the compliance of this change of the product.

The conducted emissions of US-SK108 were tested with a notebook, and the input voltage is 120VAC/60Hz;

The RF tests of US-SK108 were tested with a power source, and the input power is 5VDC.

This submittal(s) (test report) is intended for FCC ID: 2ADQOMDNA22, complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C rules.

This submittal(s) (test report) is intended for IC: 12575A-MDNA22, complies with RSS-247 and RSS-Gen.

This report is only for 2.4GHz Wi-Fi.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

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

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

Sample Received Date:	<u>2021-11-20</u>	<u>2024-05-30</u>
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Testing Start Date:	<u>2021-11-29</u>	<u>2024-06-13</u>
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Testing End Date:	<u>2021-12-09</u>	<u>2024-06-19</u>
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- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch –

Reviewed by:

Prepared by:

Tested by:




Jessie He
Project Manager



Myron Yu
Project Engineer

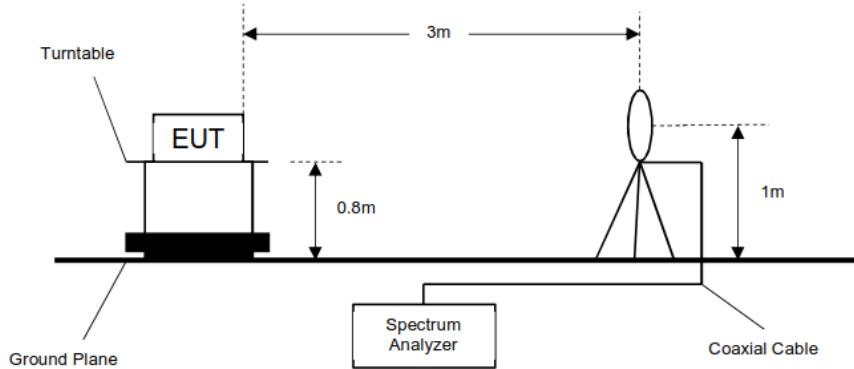


Carry Cai
Test Engineer

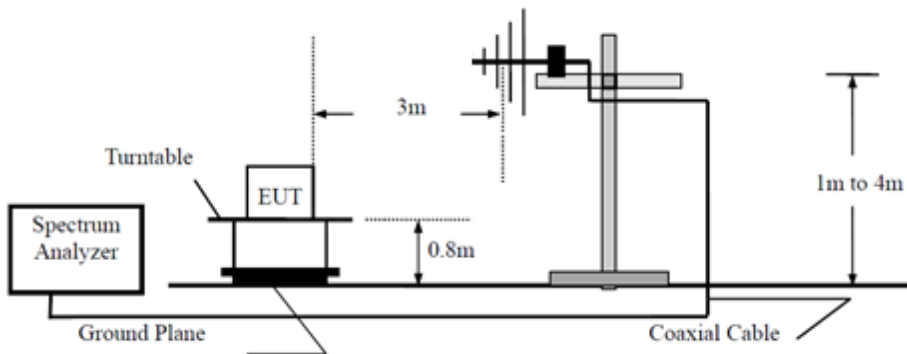
7 Test Setups

7.1 Radiated test setups

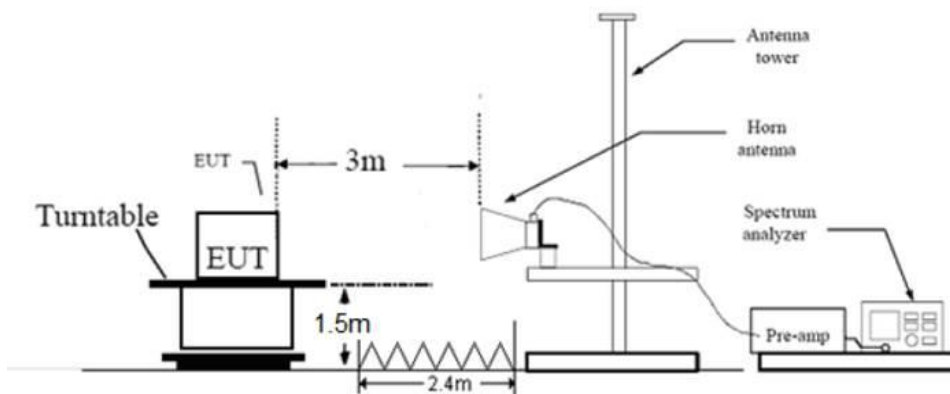
9kHz - 30MHz



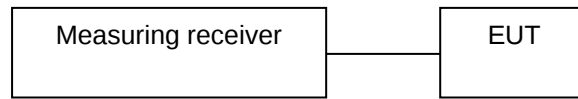
Below 1GHz



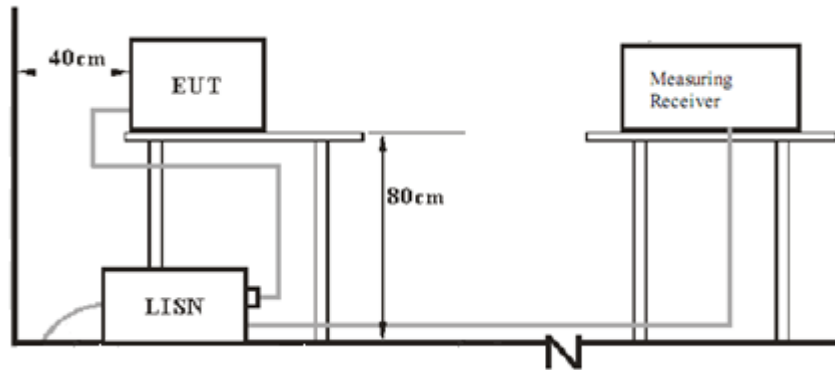
Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Mobile Phone	Apple	iPhone 6	---
APP	Midea	MSmartHome	---
Laptop	Lenovo	X240	L34015282
Software	/	DOGO_VP2.0.1	---

Test Software Information:

Test Software Version	DOGO_VP2.0.1	
Mode	Setting TX Power	Data Rate
802.11b	Default parameters, <13dBm	11b 1 Mbps
802.11g	Default parameters, <14dBm	11g 6 Mbps
802.11n HT20	Default parameters, <14dBm	MCS0 6.5 Mbps

The system was configured to channel 1, 6, and 11.

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

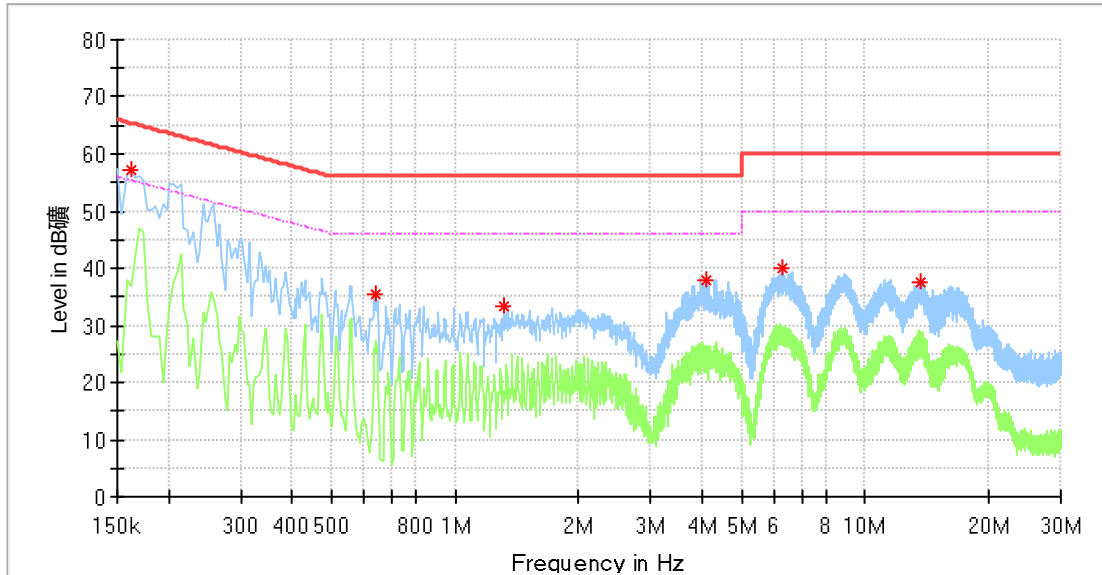
According to §15.207 & RSS-GEN 8.8, conducted emissions limit as below:

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

Remark: “*” Decreasing linearly with logarithm of the frequency

Conducted Emission

Product Type : Smart Kit
 M/N : US-SK108
 Operating Condition : Wi-Fi communication mode
 Test Specification : L
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.162000	57.20	---	65.36	8.16	L1	10.27
0.642000	35.39	---	56.00	20.61	L1	10.31
1.322000	33.37	---	56.00	22.63	L1	10.33
4.110000	37.89	---	56.00	18.11	L1	10.50
6.274000	40.16	---	60.00	19.84	L1	10.68
13.674000	37.60	---	60.00	22.40	L1	11.14

Remark:

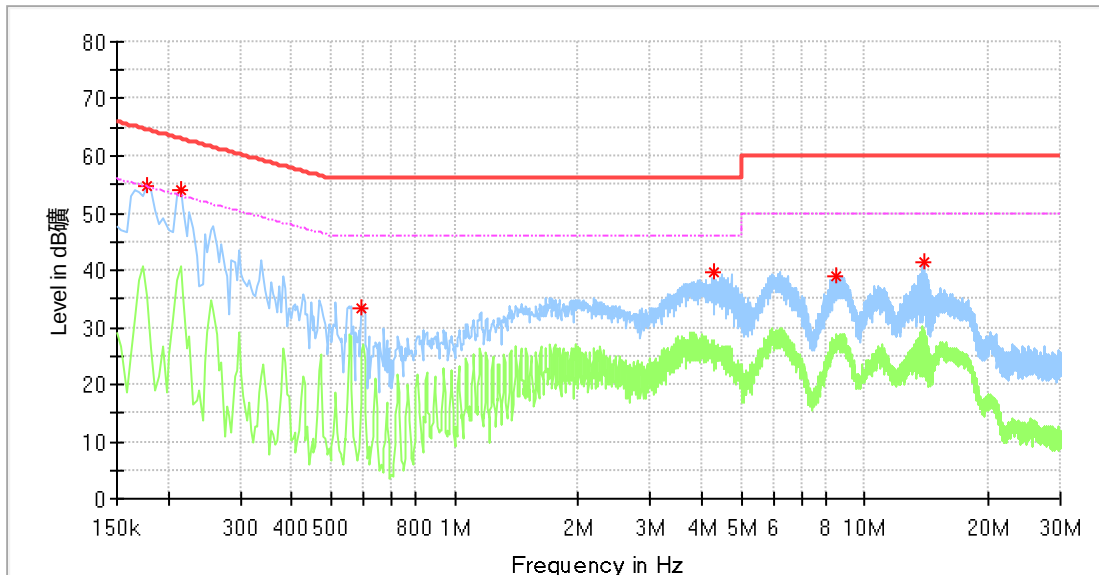
Level=Reading Level + Correction Factor

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 Kit
 M/N : US-SK108
 Operating Condition : Wi-Fi communication mode
 Test Specification : N
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.178000	54.64	---	64.58	9.94	N	10.22
0.214000	53.91	---	63.05	9.14	N	10.23
0.594000	33.42	---	56.00	22.58	N	10.20
4.298000	39.82	---	56.00	16.18	N	10.46
8.550000	39.07	---	60.00	20.93	N	11.03
13.890000	41.50	---	60.00	18.50	N	11.31

Remark:

Level=Reading Level + Correction Factor

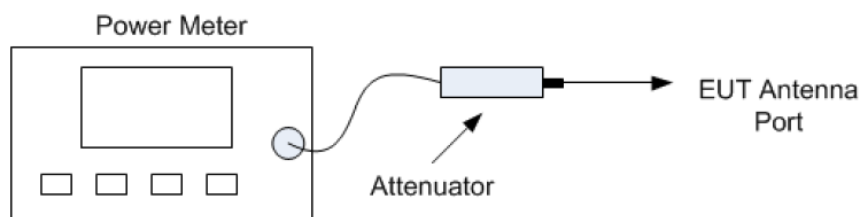
Correction Factor=Cable Loss + LISN Factor

(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

Limit

According to §15.247 (b) (3) & RSS-247 5.4(d), conducted 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 Results

Test Mode	Channel(MHz)	Conducted Peak Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
11B	2412	12.9	16.05	≤30	PASS
	2437	12.9	16.05	≤30	PASS
	2462	12.8	15.95	≤30	PASS
11G	2412	14.3	17.45	≤30	PASS
	2437	14.3	17.45	≤30	PASS
	2462	13.1	16.25	≤30	PASS
11N20SISO	2412	14.1	17.25	≤30	PASS
	2437	14.2	17.35	≤30	PASS
	2462	13.0	16.15	≤30	PASS

9.3 6 dB and 99% 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=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 the actual occupied, 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	--

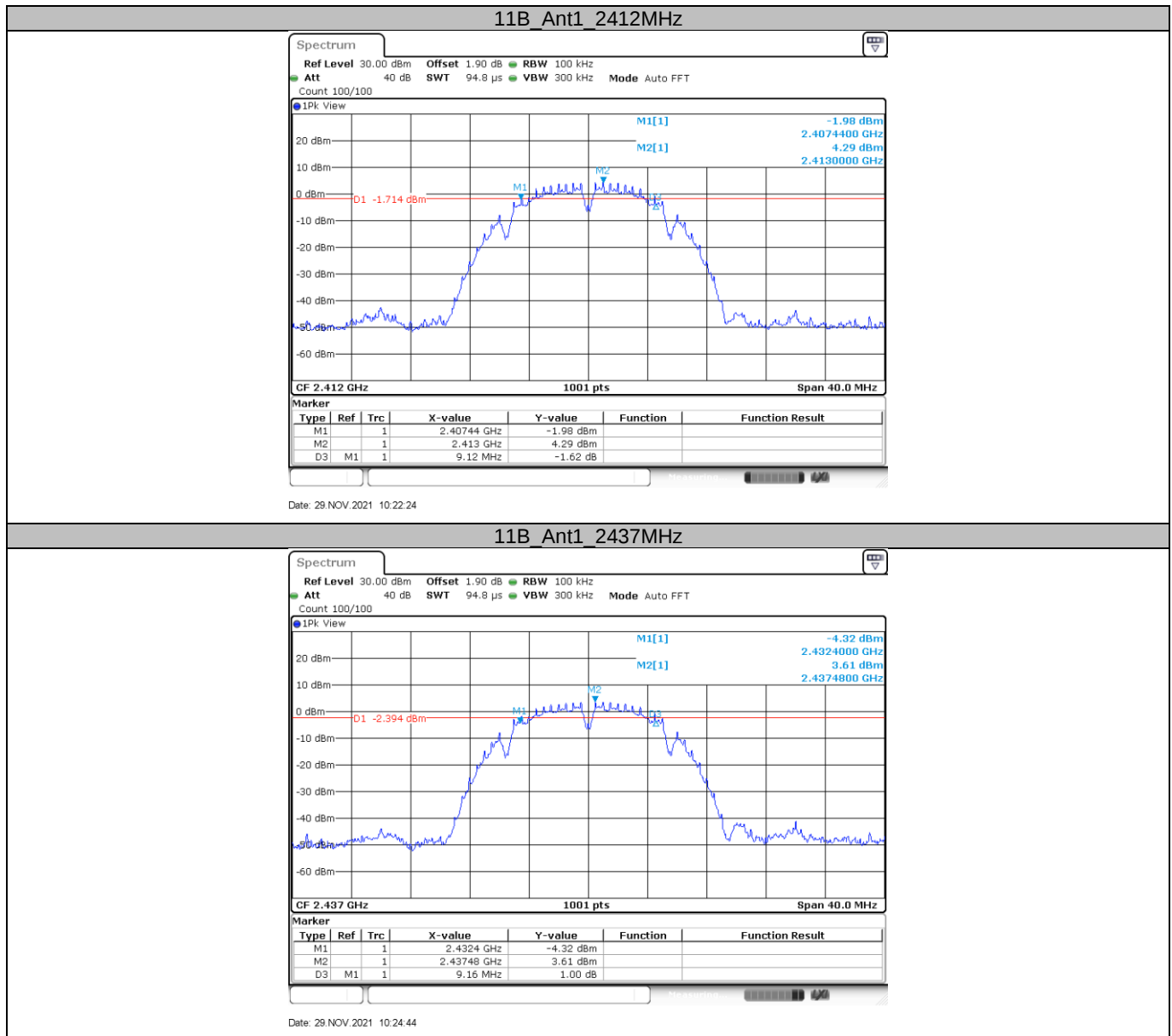
Test result

6dB Bandwidth

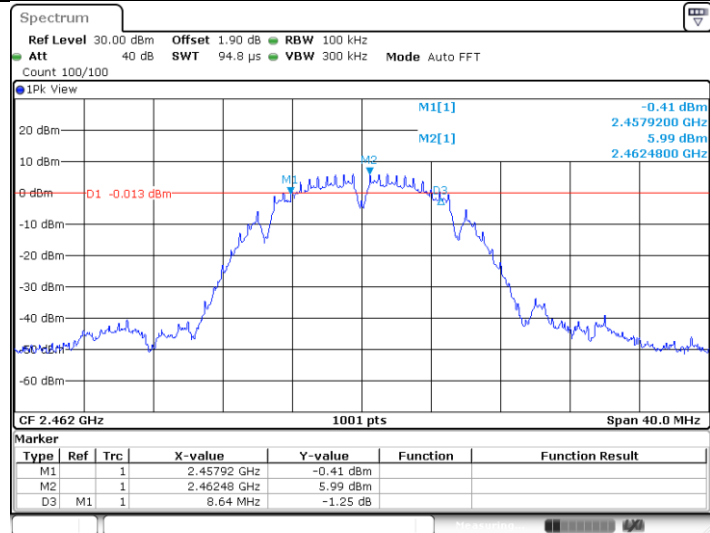
TestMode	Channel[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	9.120	2407.440	2416.560	0.5	PASS
	2437	9.160	2432.400	2441.560	0.5	PASS
	2462	8.640	2457.920	2466.560	0.5	PASS
11G	2412	16.440	2403.760	2420.200	0.5	PASS
	2437	16.440	2428.760	2445.200	0.5	PASS
	2462	16.480	2453.760	2470.240	0.5	PASS
11N20SISO	2412	17.400	2403.400	2420.800	0.5	PASS
	2437	17.640	2428.160	2445.800	0.5	PASS
	2462	17.640	2453.160	2470.800	0.5	PASS

Test Graphs

6dB bandwidth

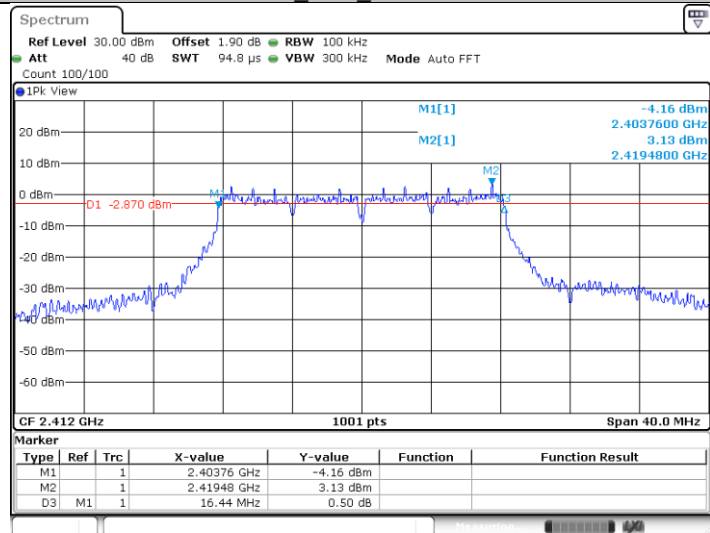


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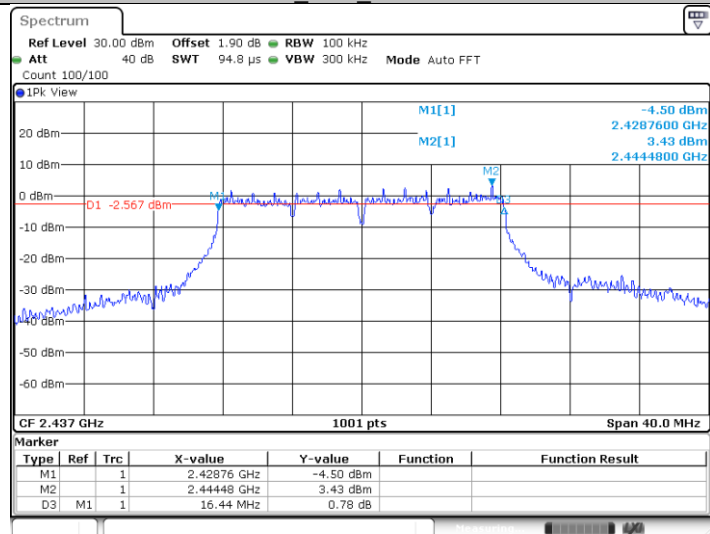
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11G_Ant1_2412MHz



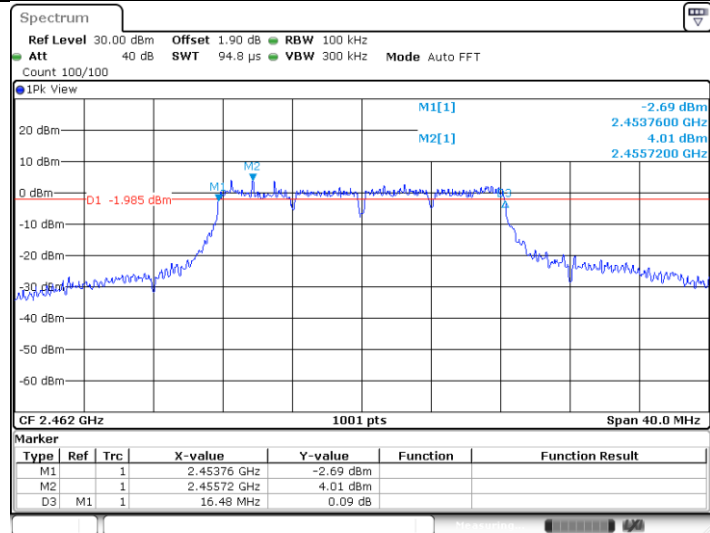
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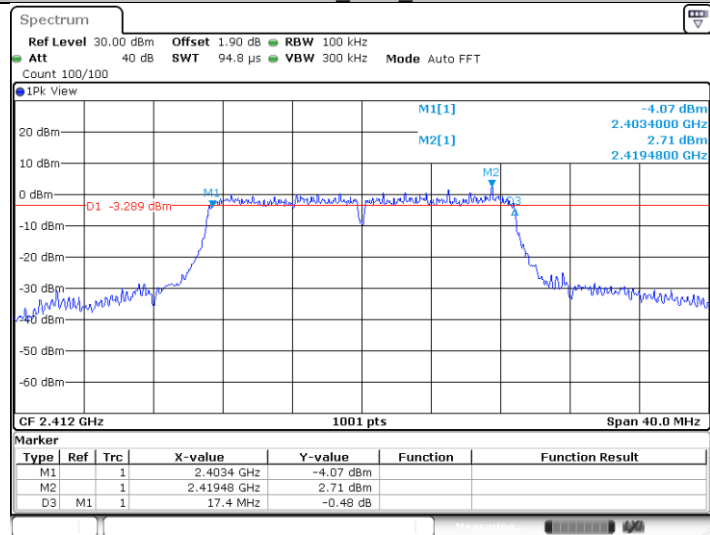


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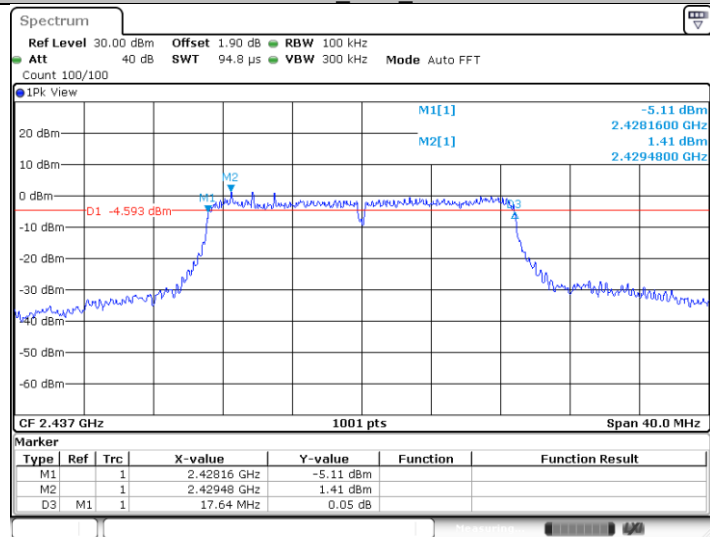
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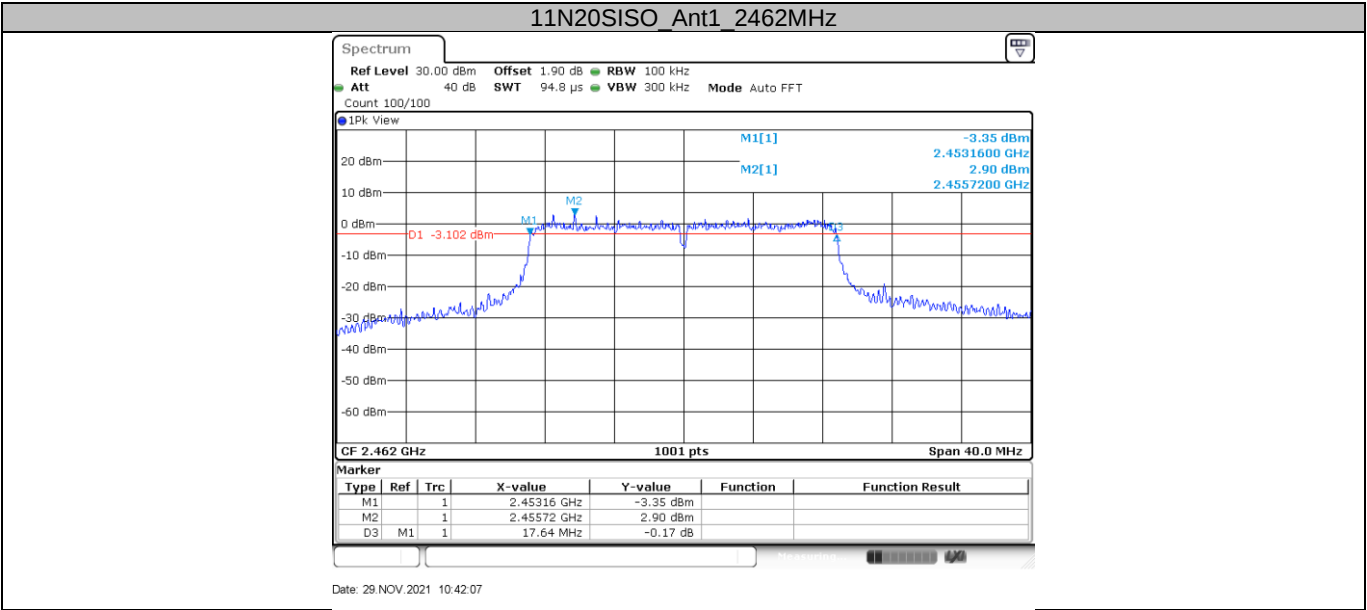


11N20SISO_Ant1_2412MHz



11N20SISO_Ant1_2437MHz



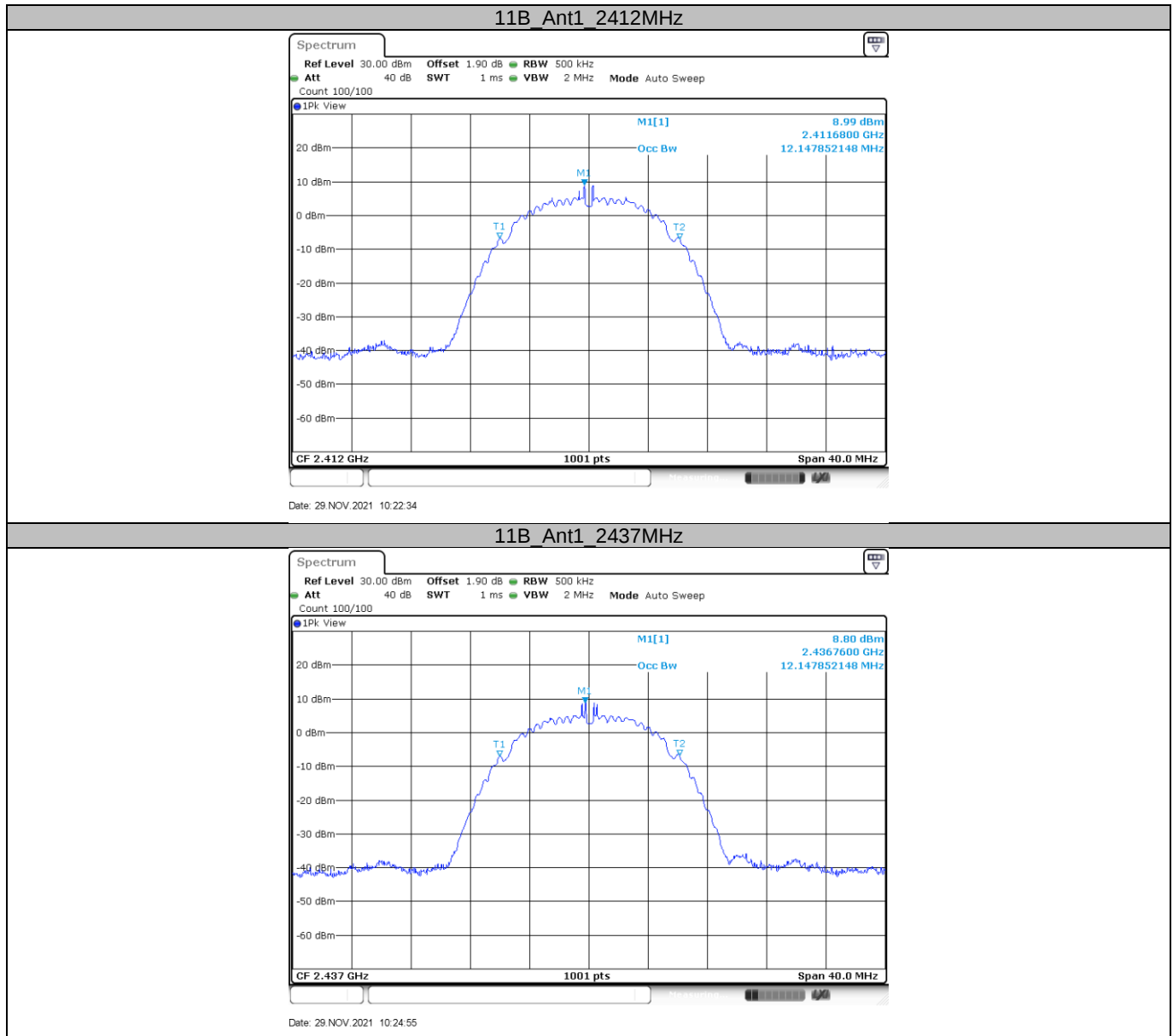


99% bandwidth

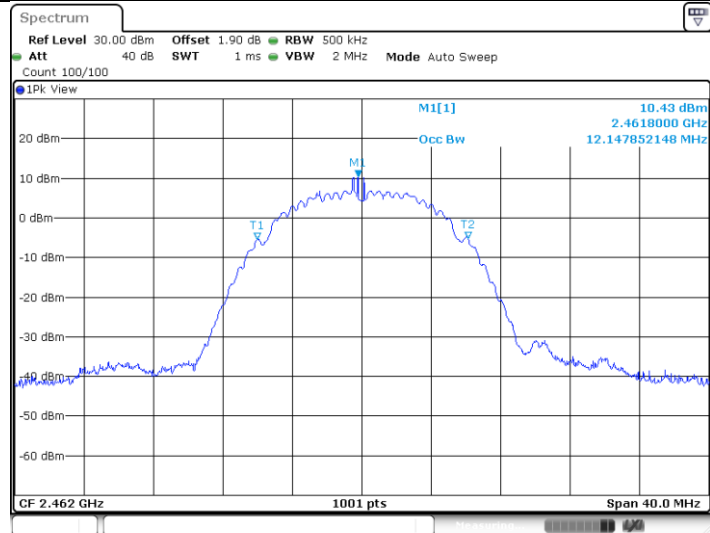
Test Mode	Channel[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	12.148	2405.966	2418.114	---	PASS
	2437	12.148	2430.966	2443.114	---	PASS
	2462	12.148	2455.966	2468.114	---	PASS
11G	2412	17.502	2403.329	2420.831	---	PASS
	2437	17.542	2428.329	2445.871	---	PASS
	2462	18.022	2453.209	2471.231	---	PASS
11N20SISO	2412	18.302	2402.889	2421.191	---	PASS
	2437	18.302	2427.929	2446.231	---	PASS
	2462	18.701	2452.729	2471.431	---	PASS

Test Graphs

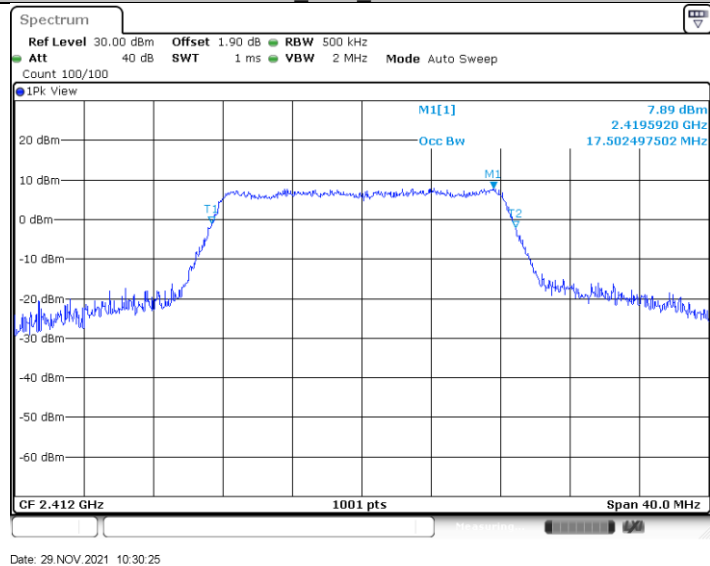
99% bandwidth



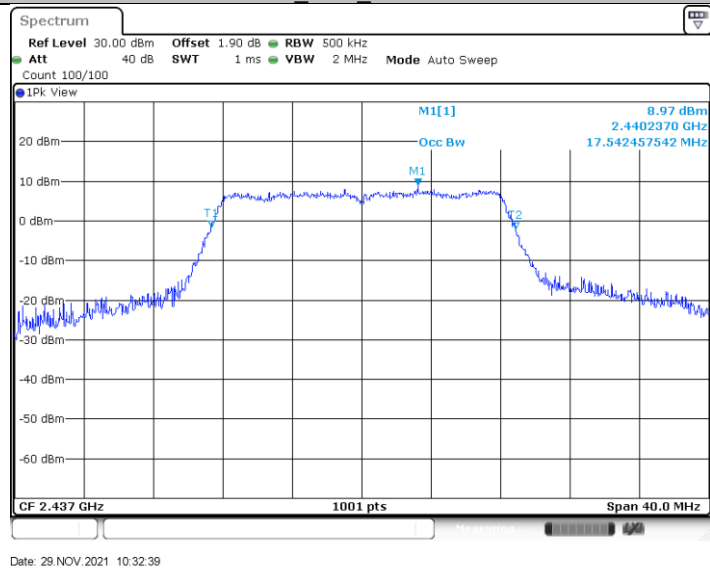
11B_Ant1_2462MHz



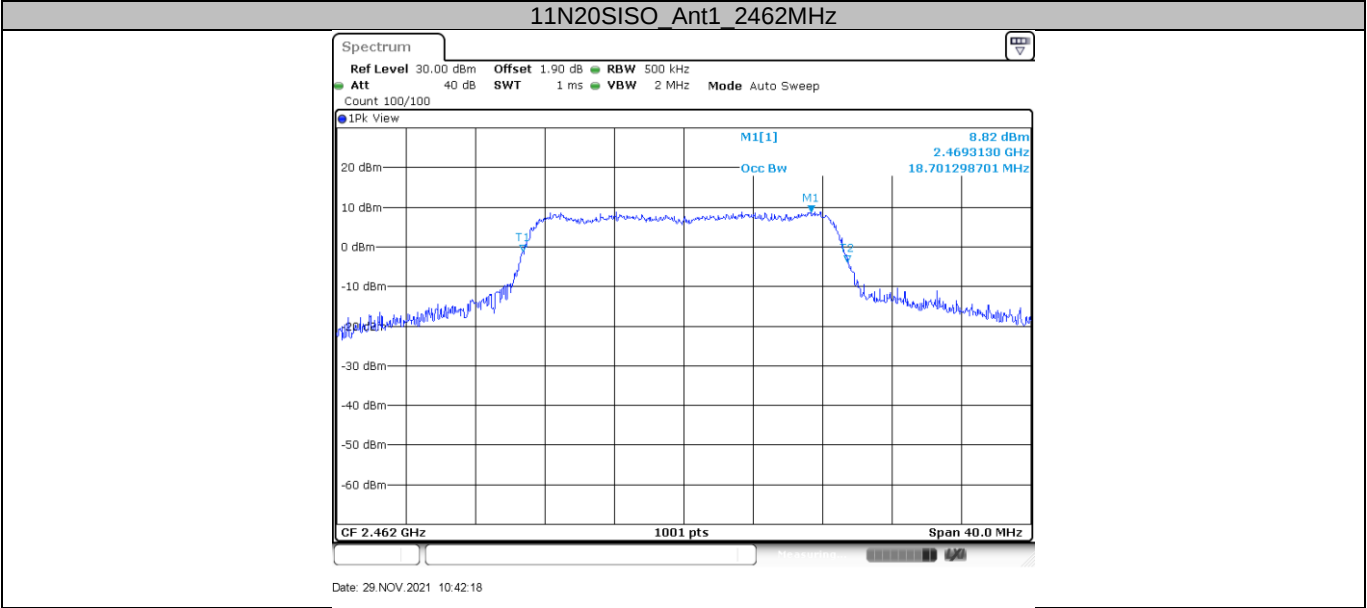
11G_Ant1_2412MHz



11G_Ant1_2437MHz







9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

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 $\geq$ 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

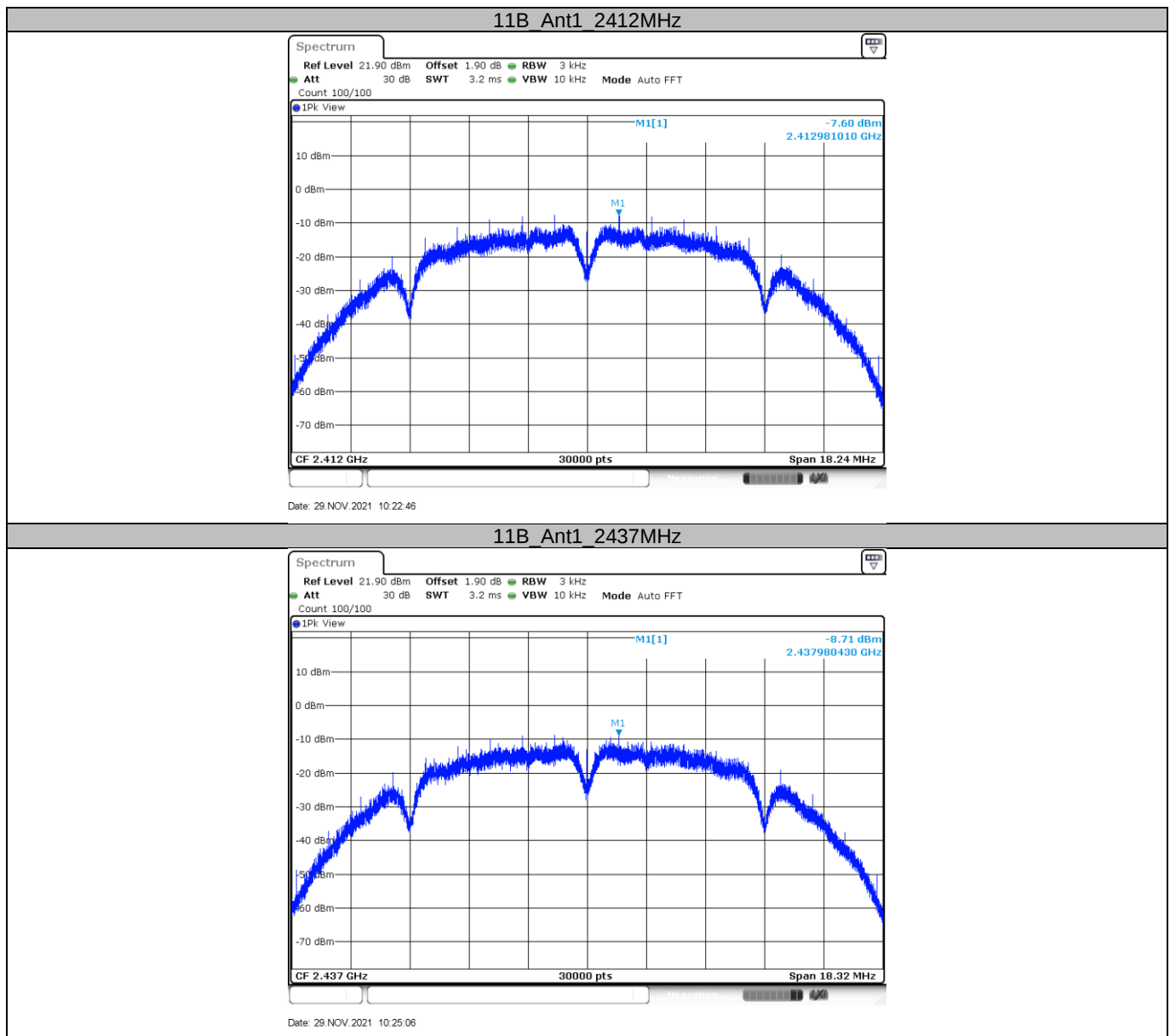
Limit [dBm/3kHz]

≤ 8

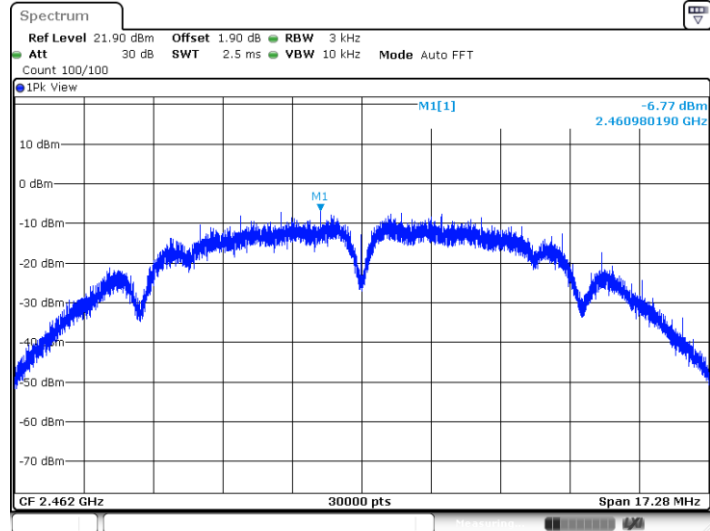
Test Results

Test Mode	Channel(MHz)	Result(dBm/3KHz)	Limit(dBm/3KHz)	Verdict
11B	2412	-7.6	≤ 8	PASS
	2437	-8.71	≤ 8	PASS
	2462	-6.77	≤ 8	PASS
11G	2412	-10.86	≤ 8	PASS
	2437	-11.39	≤ 8	PASS
	2462	-9.47	≤ 8	PASS
11N20SISO	2412	-10.91	≤ 8	PASS
	2437	-10.8	≤ 8	PASS
	2462	-9.76	≤ 8	PASS

Test Graphs

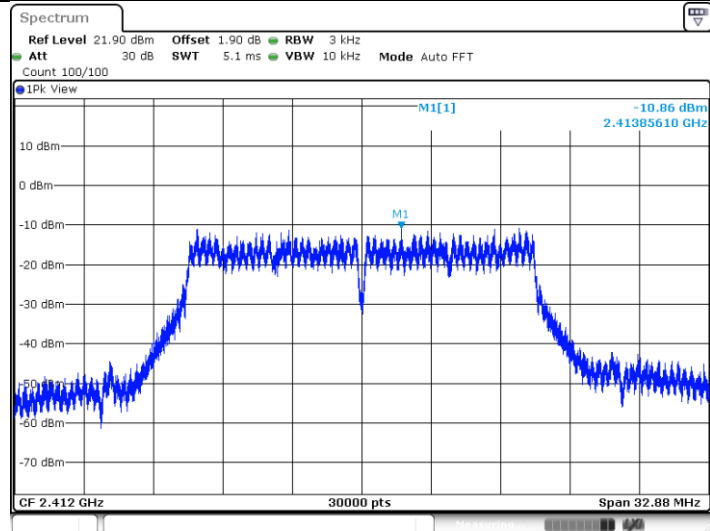


11B_Ant1_2462MHz



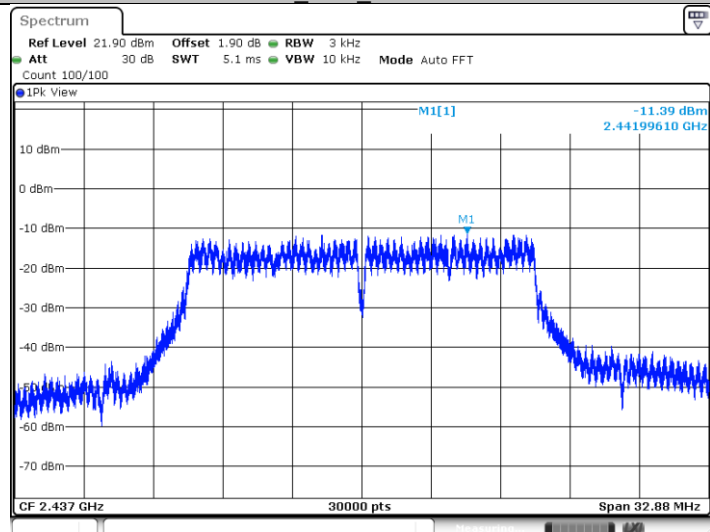
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11G_Ant1_2412MHz



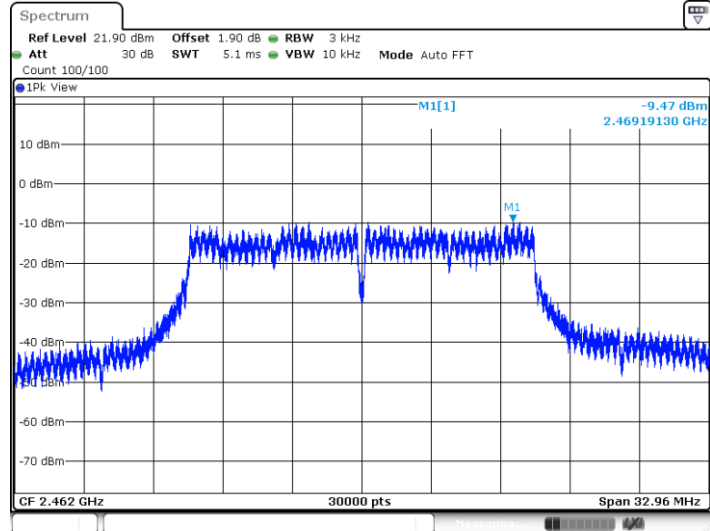
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11G_Ant1_2437MHz



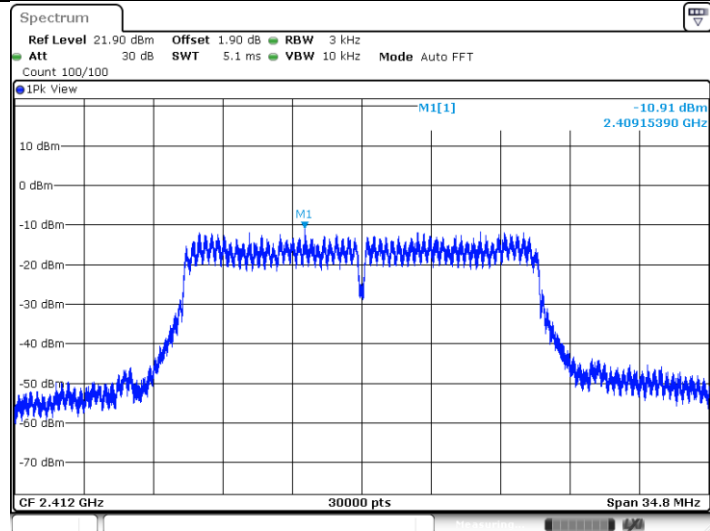
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11G_Ant1_2462MHz



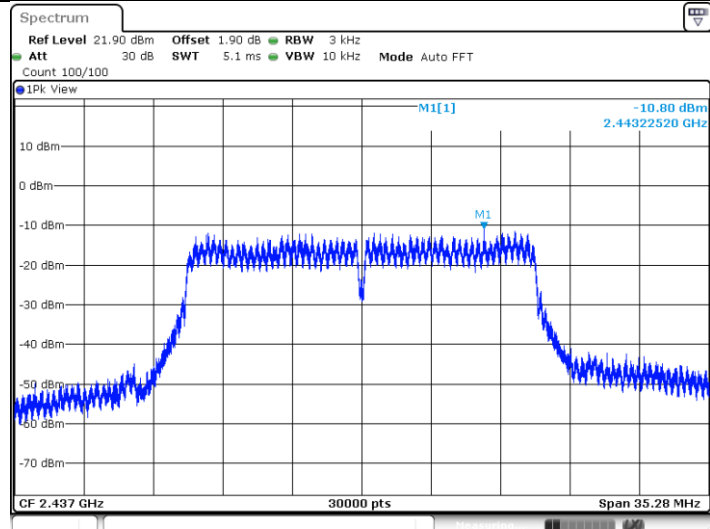
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11N20SISO_Ant1_2412MHz

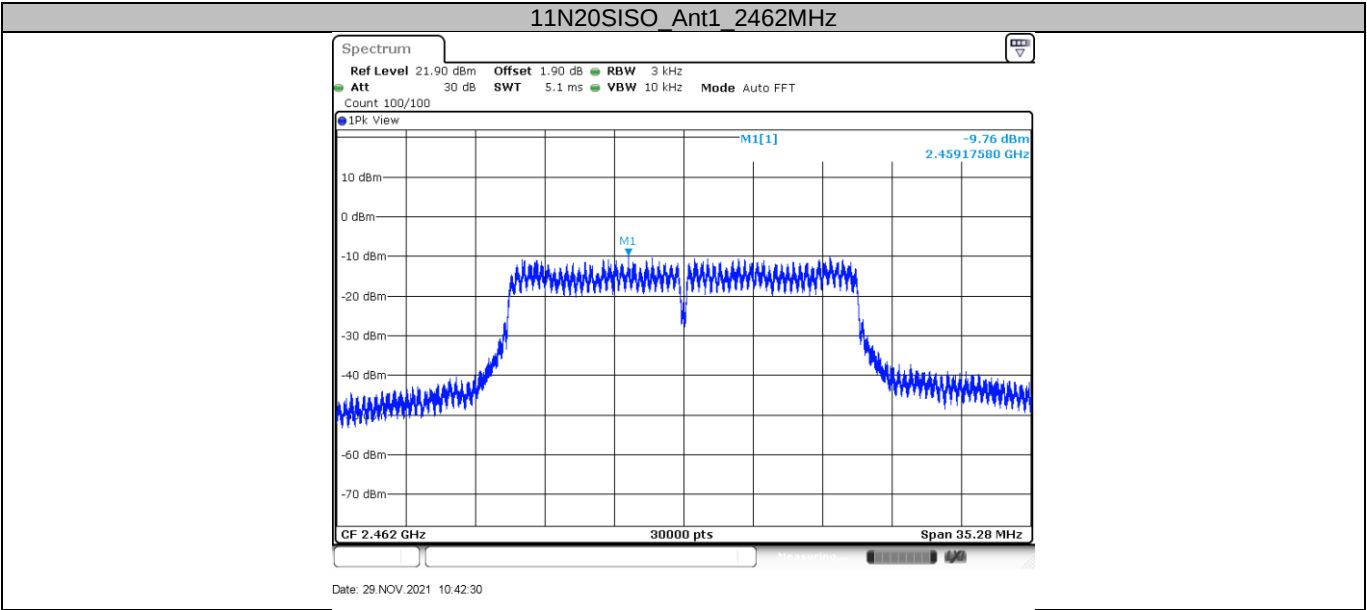


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11N20SISO_Ant1_2437MHz



Date: 29 NOV 2021 10:41:02



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

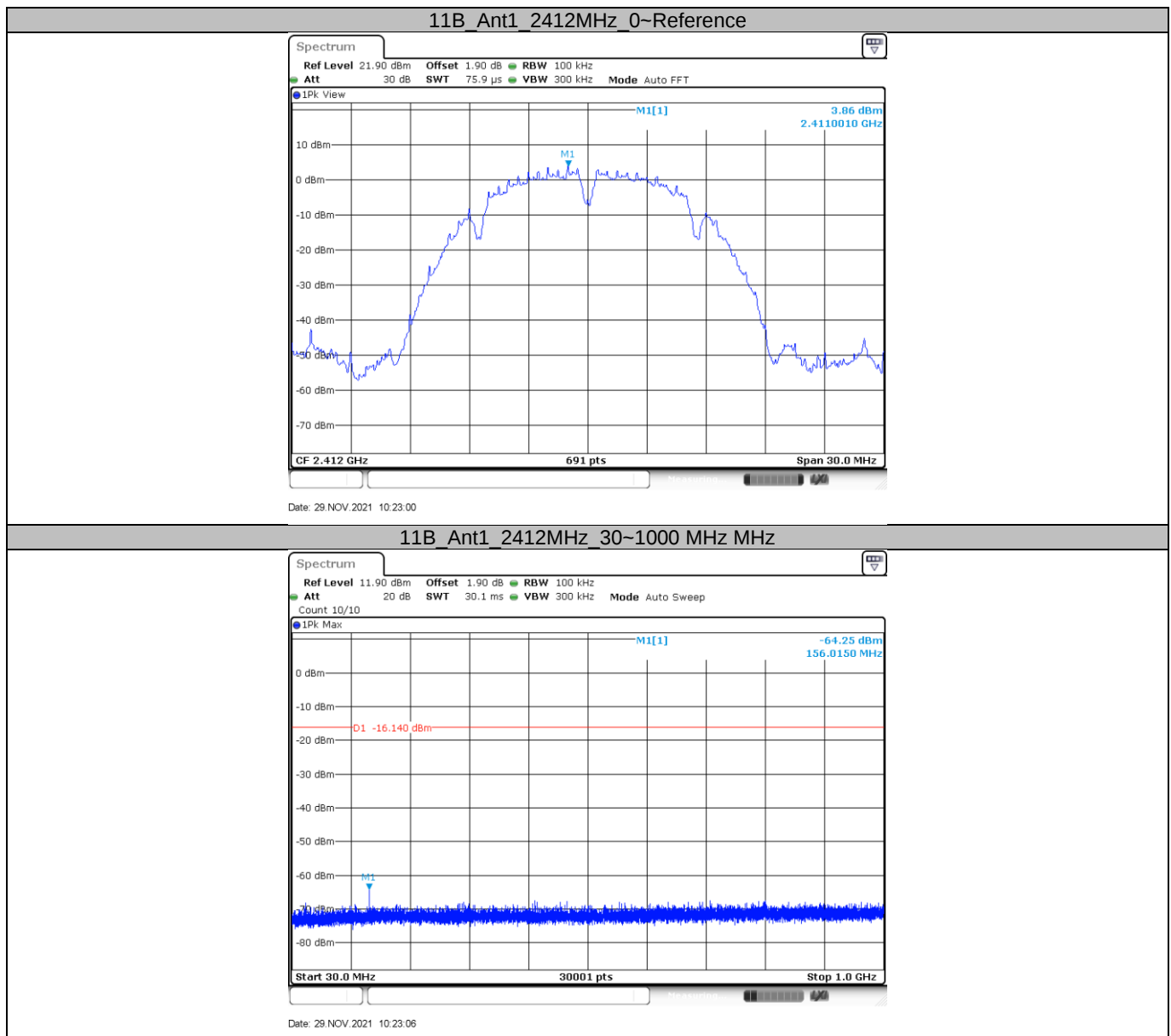
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test Result

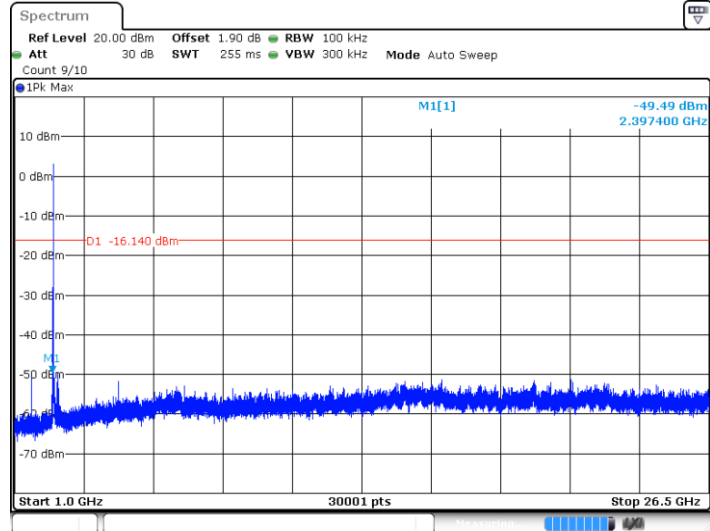
Test Mode	Channel(MHz)	FreqRange(MHz)	RefLevel (dBm)	Result(dBm)	Limit(dBm)	Verdict
11B	2412	Reference	3.86	3.86	---	PASS
		30~1000 MHz	30~1000 MHz	-64.25	≤ -16.14	PASS
		1000~26500 MHz	1000~26500 MHz	-49.49	≤ -16.14	PASS
	2437	Reference	4.36	4.36	---	PASS
		30~1000 MHz	30~1000 MHz	-64.14	≤ -15.64	PASS
		1000~26500 MHz	1000~26500 MHz	-50.05	≤ -15.64	PASS
	2462	Reference	5.91	5.91	---	PASS
		30~1000 MHz	30~1000 MHz	-64.37	≤ -14.09	PASS
		1000~26500 MHz	1000~26500 MHz	-46.64	≤ -14.09	PASS
11G	2412	Reference	2.42	2.42	---	PASS
		30~1000 MHz	30~1000 MHz	-63.11	≤ -17.58	PASS
		1000~26500 MHz	1000~26500 MHz	-33.81	≤ -17.58	PASS
	2437	Reference	1.91	1.91	---	PASS
		30~1000 MHz	30~1000 MHz	-64.07	≤ -18.09	PASS
		1000~26500 MHz	1000~26500 MHz	-50.57	≤ -18.09	PASS
	2462	Reference	4.05	4.05	---	PASS
		30~1000 MHz	30~1000 MHz	-64.75	≤ -15.95	PASS
		1000~26500 MHz	1000~26500 MHz	-35.18	≤ -15.95	PASS
11N20SISO	2412	Reference	1.38	1.38	---	PASS
		30~1000 MHz	30~1000 MHz	-64.43	≤ -18.62	PASS
		1000~26500 MHz	1000~26500 MHz	-31.18	≤ -18.62	PASS
	2437	Reference	-0.78	-0.78	---	PASS

		30~1000 MHz	30~1000 MHz	-65.47	<=-20.78	PASS
		1000~26500 MHz	1000~26500 MHz	-51.39	<=-20.78	PASS
	2462	Reference	3.26	3.26	---	PASS
		30~1000 MHz	30~1000 MHz	-63.31	<=-16.74	PASS
		1000~26500 MHz	1000~26500 MHz	-34.34	<=-16.74	PASS

Test Graphs

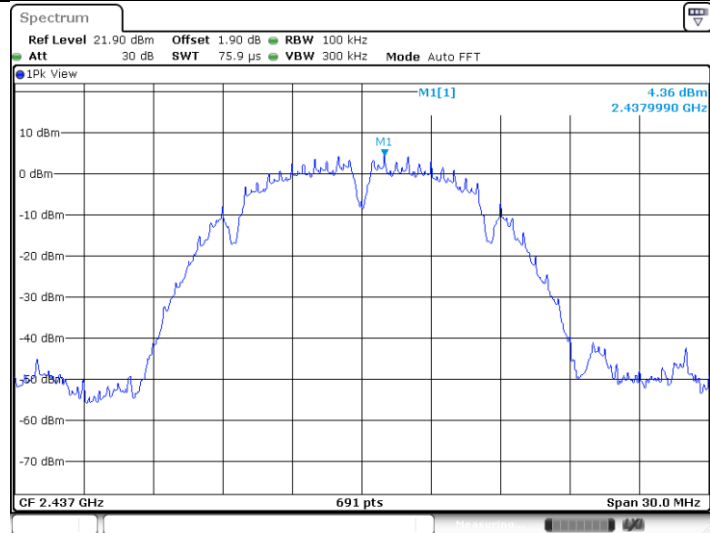


11B_Ant1_2412MHz_1000~26500 MHz



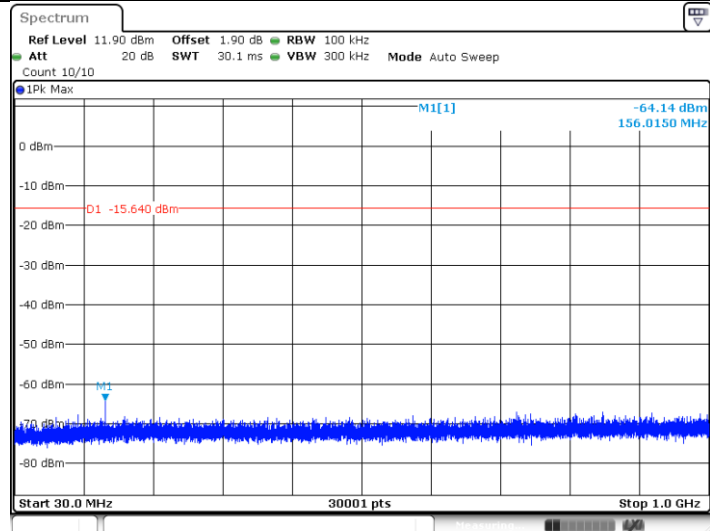
Date: 29 NOV 2021 10:23:14

11B_Ant1_2437MHz_0~Reference



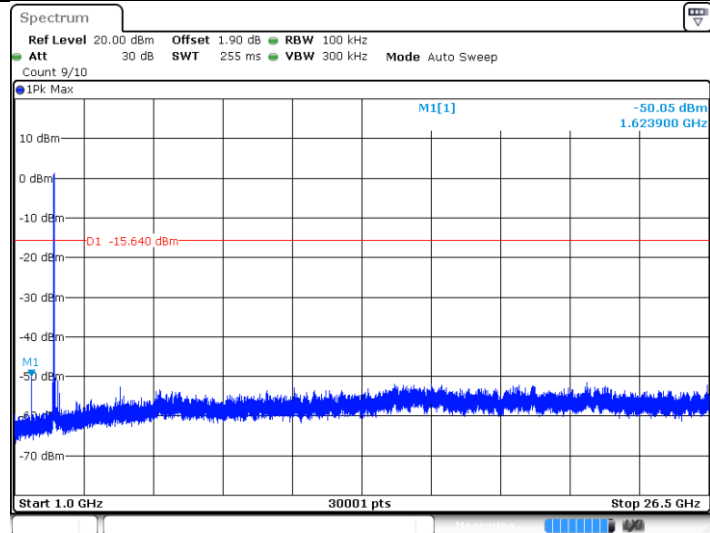
Date: 29 NOV 2021 10:25:12

11B_Ant1_2437MHz_30~1000 MHz



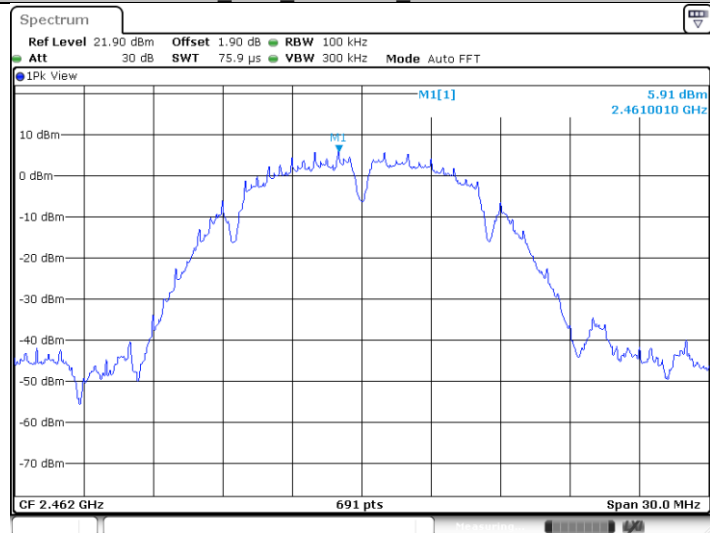
Date: 29 NOV 2021 10:25:18

11B_Ant1_2437MHz_1000-26500 MHz



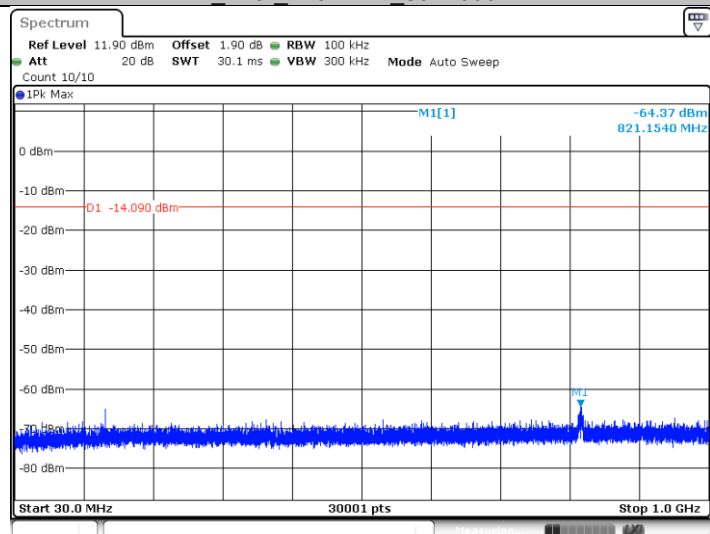
Date: 29 NOV 2021 10:25:26

11B_Ant1_2462MHz_0-Reference



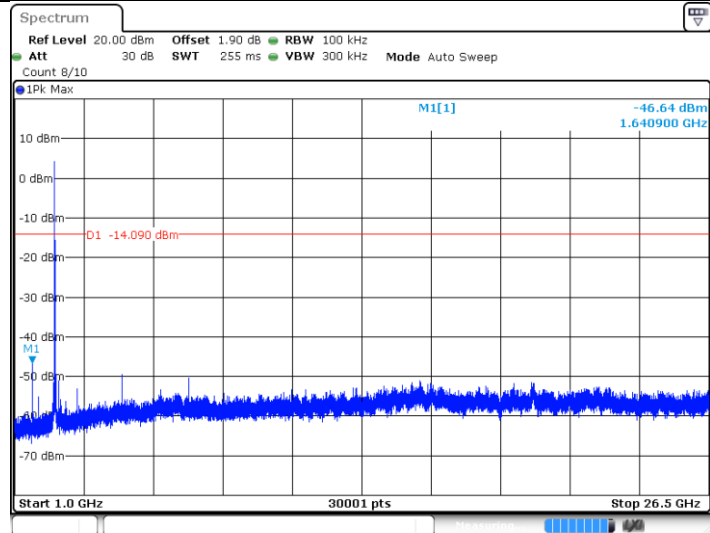
Date: 29 NOV 2021 10:28:05

11B_Ant1_2462MHz_30-1000 MHz



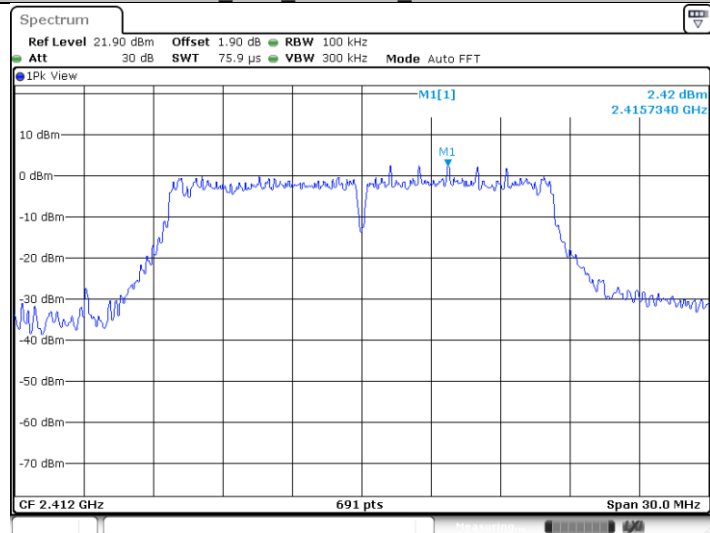
Date: 29 NOV 2021 10:28:11

11B_Ant1_2462MHz_1000-26500 MHz



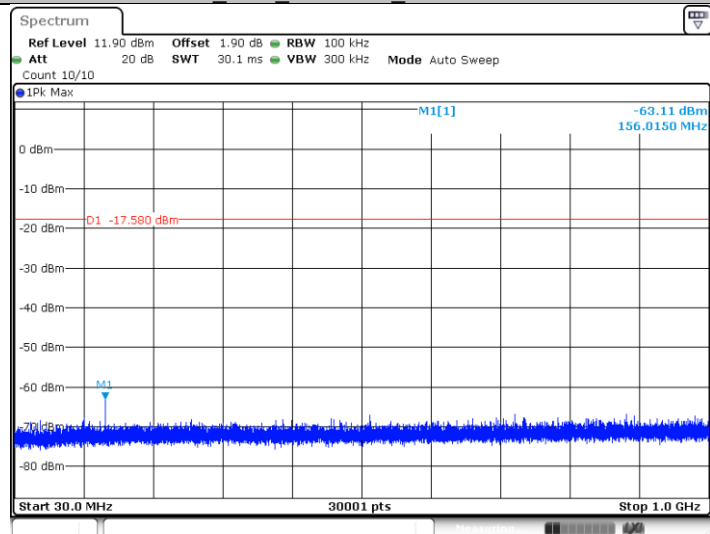
Date: 29 NOV 2021 10:28:19

11G_Ant1_2412MHz_0-Reference



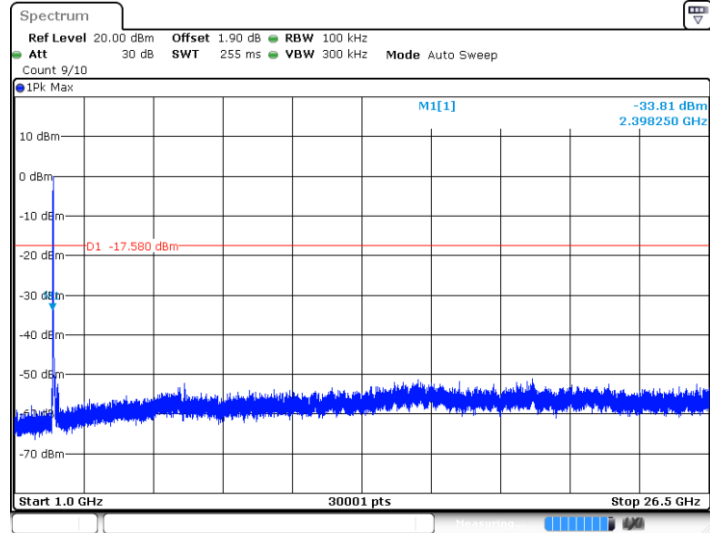
Date: 29 NOV 2021 10:30:50

11G_Ant1_2412MHz_30-1000 MHz



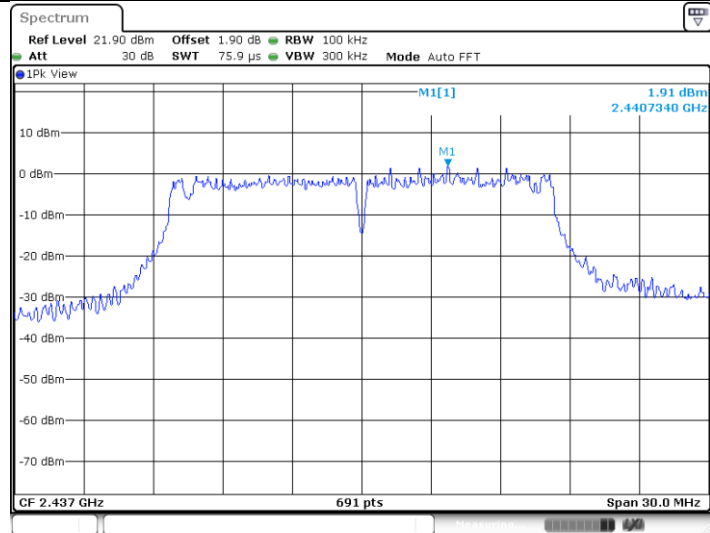
Date: 29 NOV 2021 10:30:57

11G_Ant1_2412MHz_1000~26500 MHz



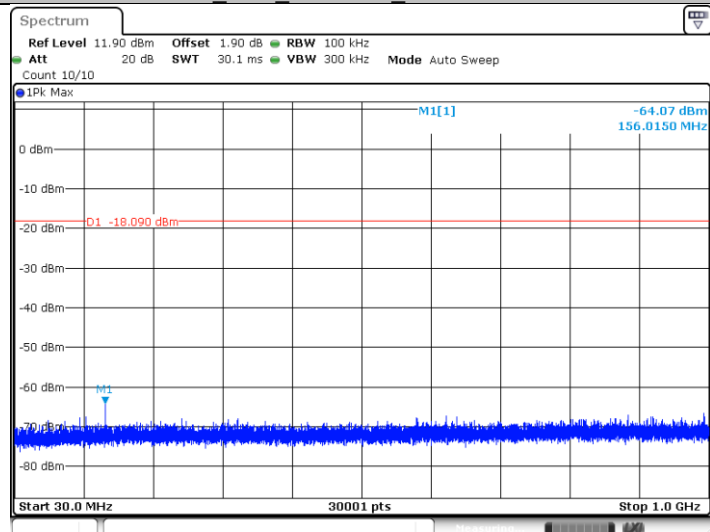
Date: 29 NOV 2021 10:31:04

11G_Ant1_2437MHz_0~Reference



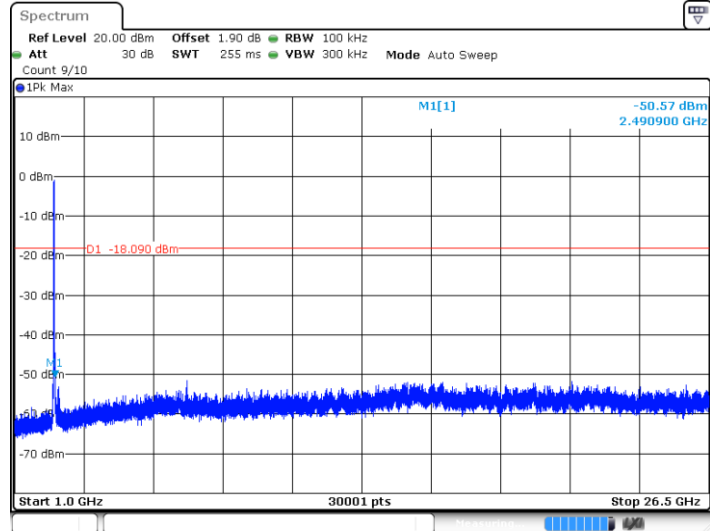
Date: 29 NOV 2021 10:32:56

11G_Ant1_2437MHz_30~1000 MHz



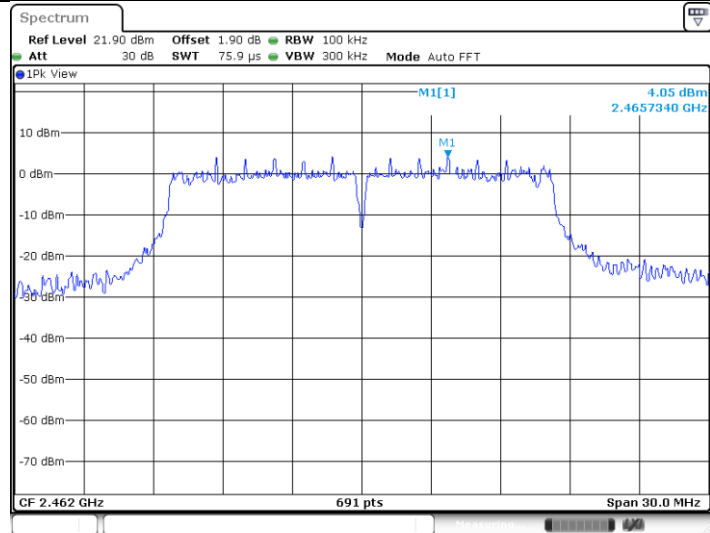
Date: 29 NOV 2021 10:33:02

11G_Ant1_2437MHz_1000~26500 MHz



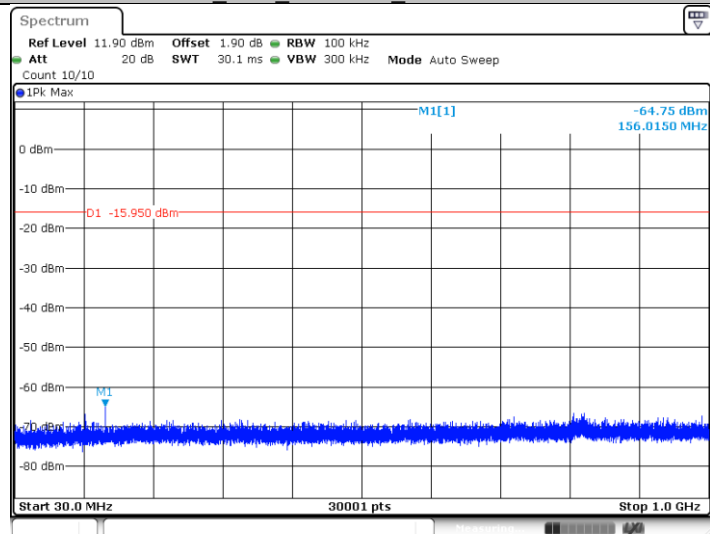
Date: 29 NOV 2021 10:33:10

11G_Ant1_2462MHz_0~Reference



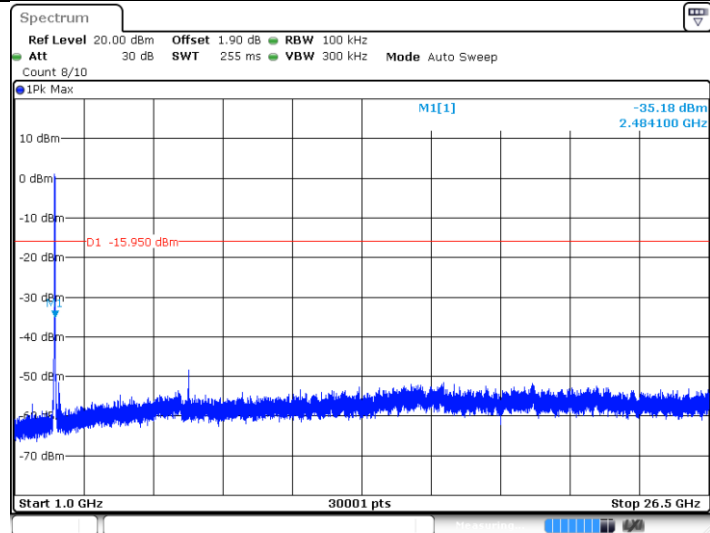
Date: 29 NOV 2021 10:36:49

11G_Ant1_2462MHz_30~1000 MHz



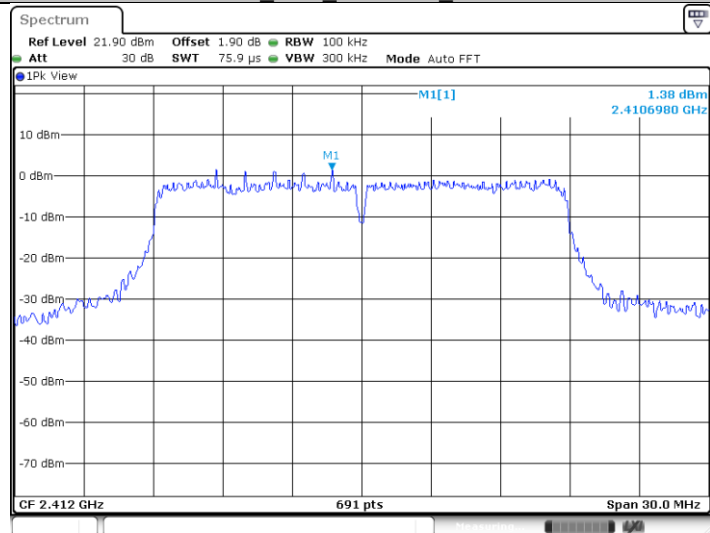
Date: 29 NOV 2021 10:36:55

11G_Ant1_2462MHz_1000~26500 MHz



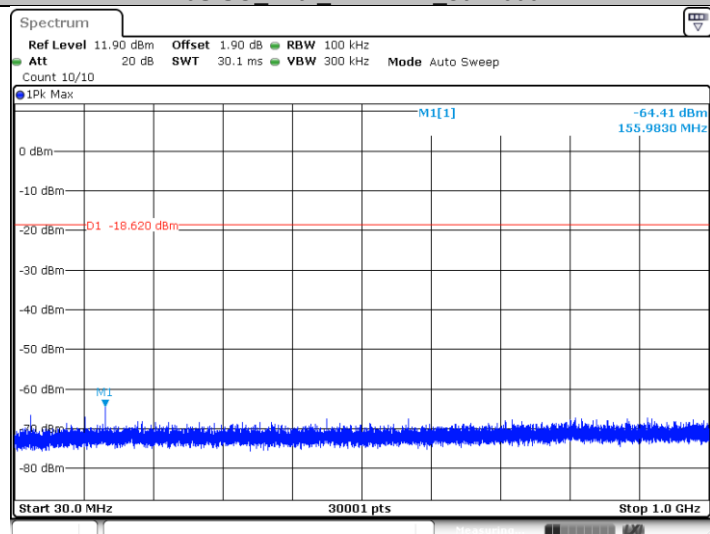
Date: 29 NOV 2021 10:37:03

11N20SISO_Ant1_2412MHz_0~Reference



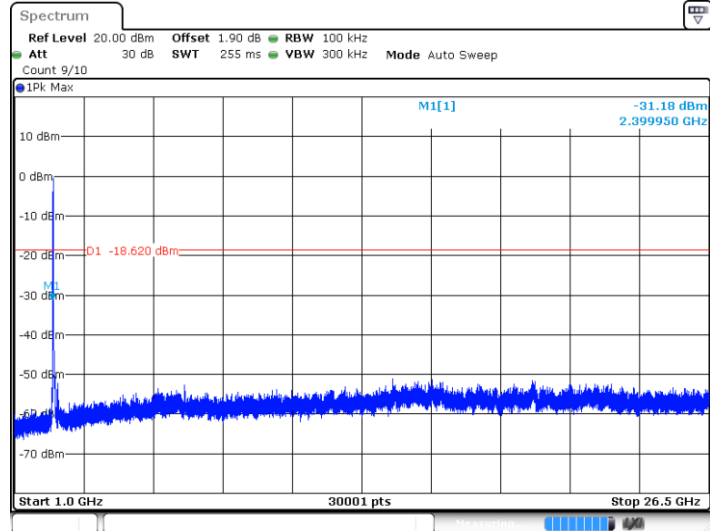
Date: 29 NOV 2021 10:39:33

11N20SISO_Ant1_2412MHz_30~1000 MHz



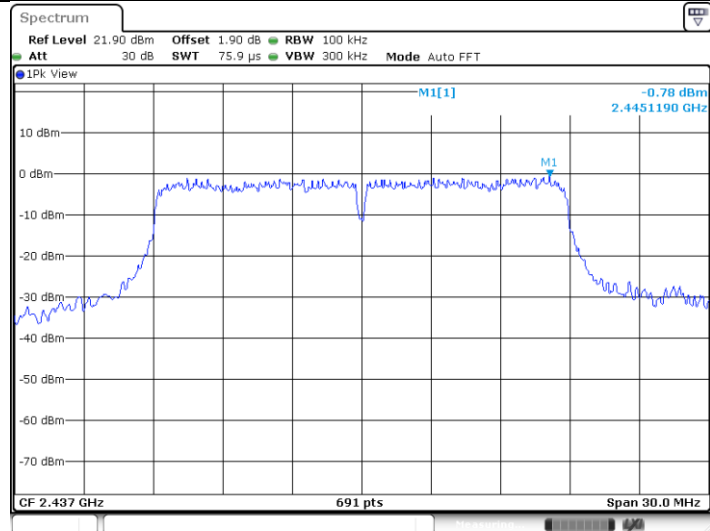
Date: 29 NOV 2021 10:39:39

11N20SISO_Ant1_2412MHz_1000~26500 MHz



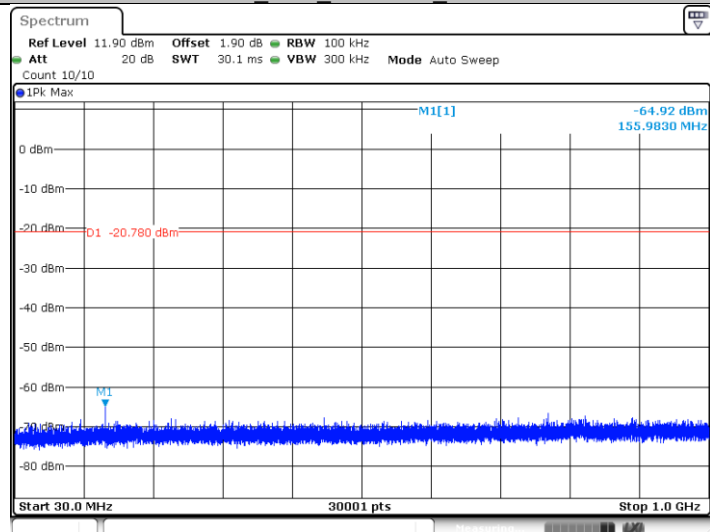
Date: 29 NOV 2021 10:39:47

11N20SISO_Ant1_2437MHz_0~Reference



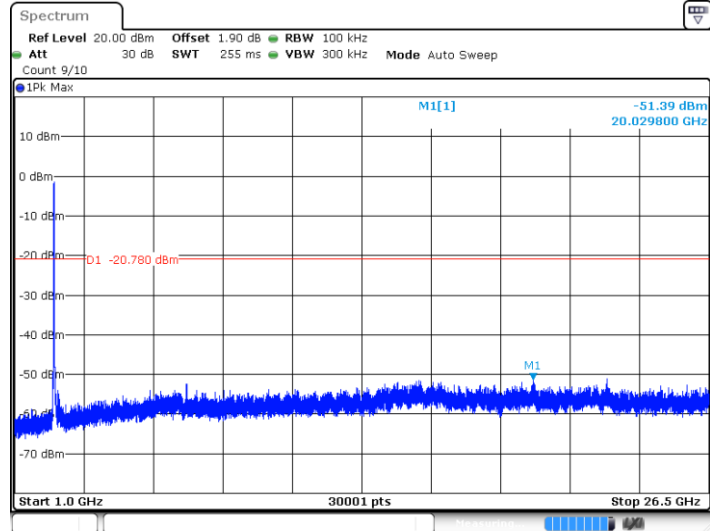
Date: 29 NOV 2021 10:41:07

11N20SISO_Ant1_2437MHz_30~1000 MHz



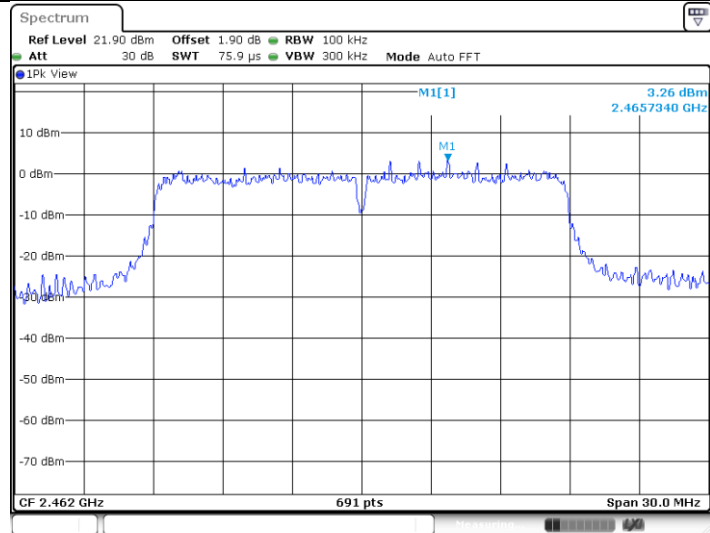
Date: 29 NOV 2021 10:41:13

11N20SISO_Ant1_2437MHz_1000~26500 MHz



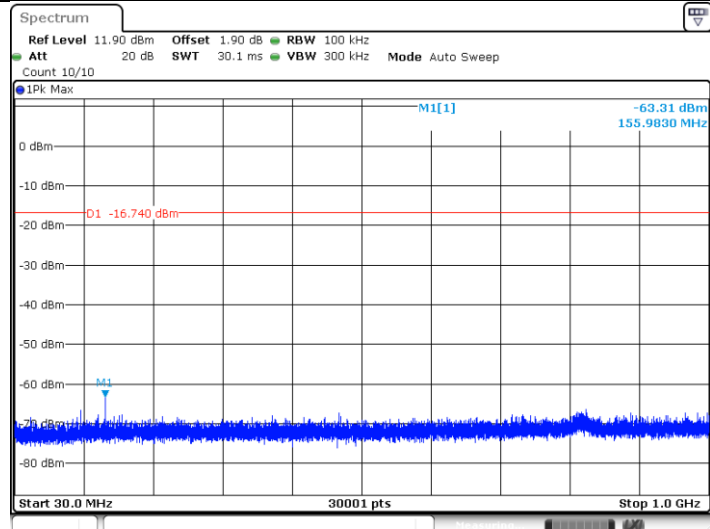
Date: 29 NOV 2021 10:41:21

11N20SISO_Ant1_2462MHz_0~Reference

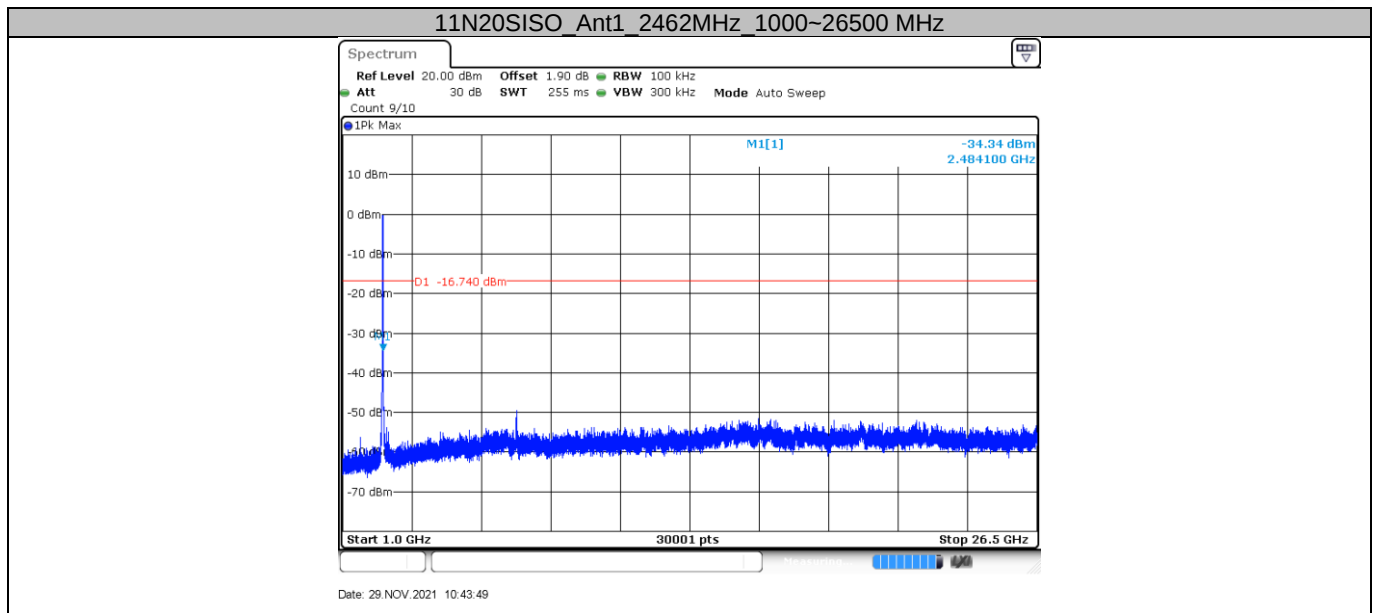


Date: 29 NOV 2021 10:43:35

11N20SISO_Ant1_2462MHz_30~1000 MHz



Date: 29 NOV 2021 10:43:41



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 § 15.247(b)(3) and RSS-247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

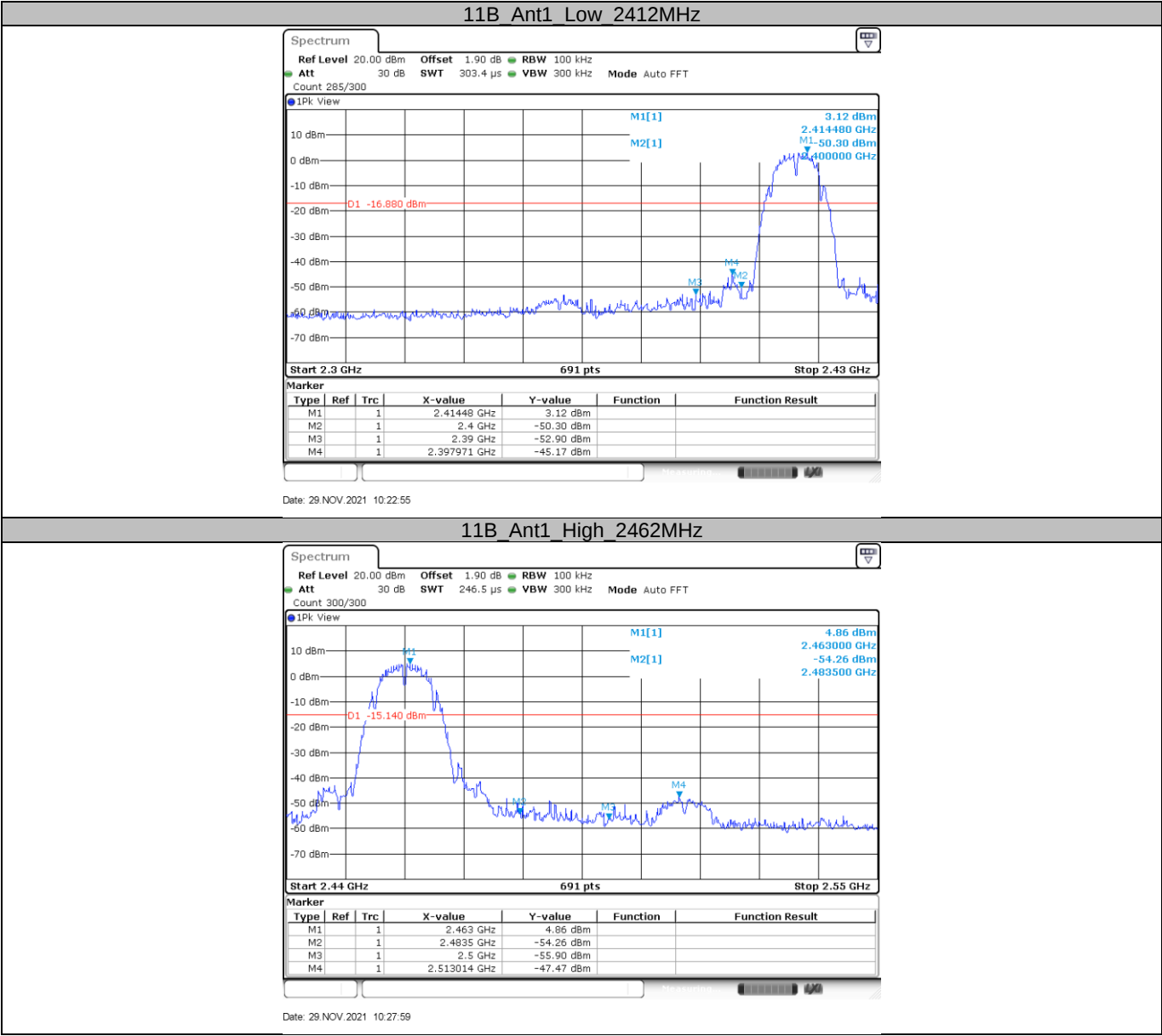
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

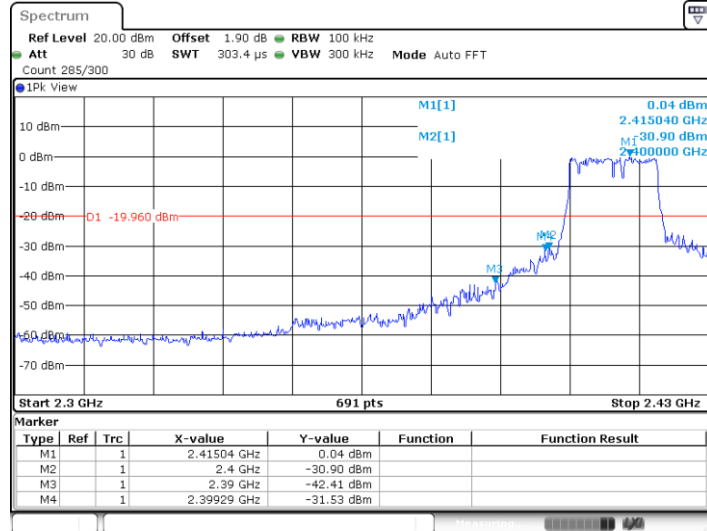
Test Mode	ChName	Channel(MHz)	RefLevel(dBm)	Result(dBm)	Limit(dBm)	Verdict
11B	Low	2412	3.12	-45.17	≤ -16.88	PASS
	High	2462	4.86	-47.47	≤ -15.14	PASS
11G	Low	2412	0.04	-31.53	≤ -19.96	PASS
	High	2462	4.02	-29.08	≤ -15.98	PASS
11N20SISO	Low	2412	1.15	-33.13	≤ -18.85	PASS
	High	2462	3.80	-30.89	≤ -16.2	PASS



Test Graphs



11G_Ant1_Low_2412MHz



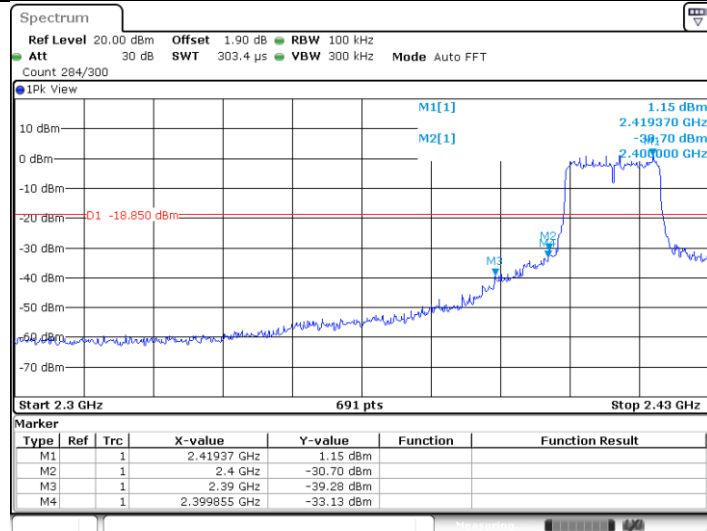
Date: 29 NOV 2021 10:30:45

11G_Ant1_High_2462MHz

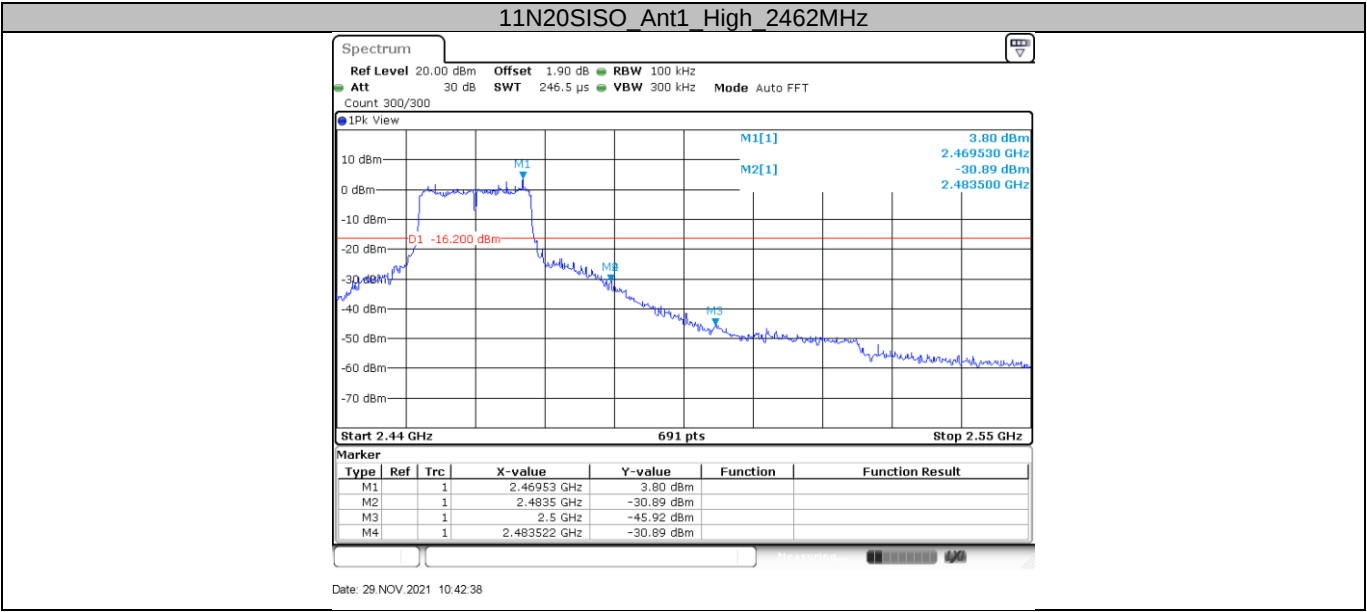


Date: 29 NOV 2021 10:36:43

11N20SISO_Ant1_Low_2412MHz



Date: 29 NOV 2021 10:39:27



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.
 - 3) Procedures for average unwanted emissions measurements above 1000 MHz
 - 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 § 15.247(b)(3) and 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 § 15.209(a) and RSS-Gen is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a) and RSS-Gen section 8.9, must also comply with the radiated emission limits specified in § 15.209(a) and 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

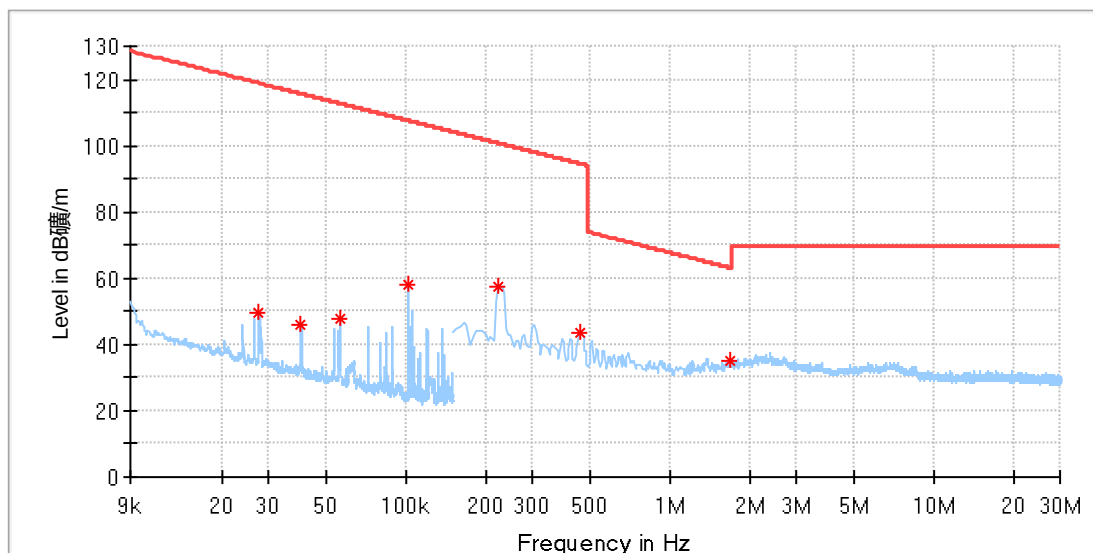
According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

Only the worst case (802.11B) test result is listed in the report.

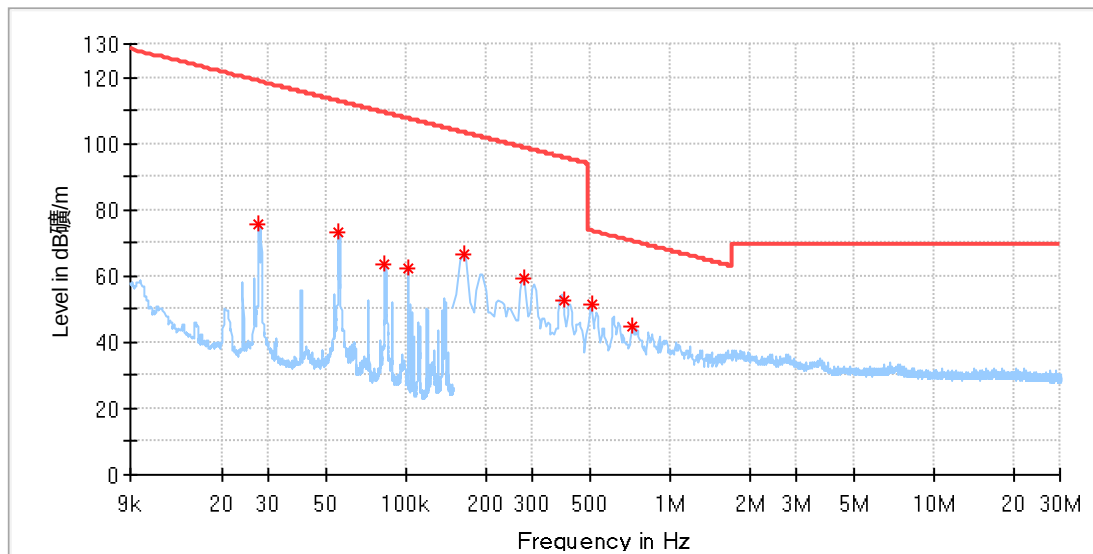
Spurious Emission Test (9kHz-30MHz)

Spurious radiated emissions for Transmitting mode 802.11B_2412MHz



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027659	49.43	118.75	69.32	H	154.0	19.93
0.039973	46.02	115.56	69.54	H	0.0	19.92
0.056094	47.75	112.62	64.86	H	0.0	19.96
0.101637	58.17	107.46	49.28	H	0.0	19.95
0.224625	57.52	100.57	43.05	H	291.0	19.91
0.453475	43.59	94.47	50.88	H	344.0	19.95
1.687275	35.32	63.06	27.74	H	359.0	20.03

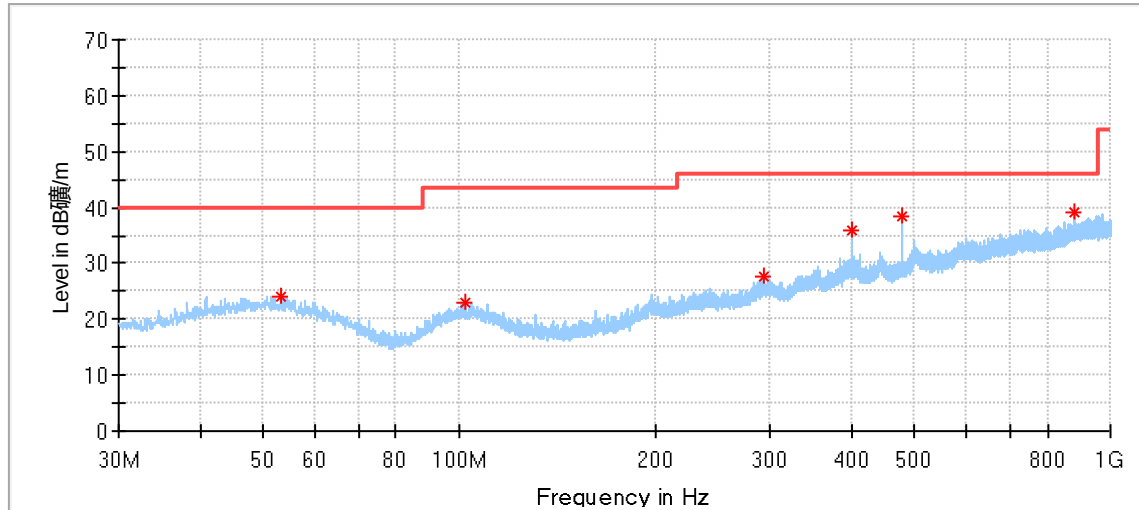


Critical Freqs

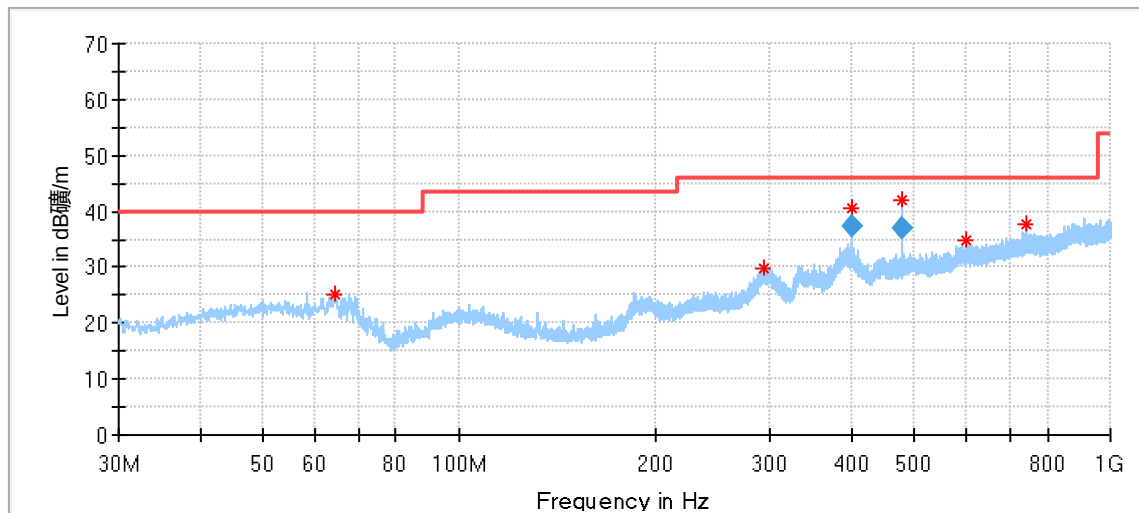
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027659	75.64	118.75	43.12	V	171.0	19.93
0.055342	73.41	112.73	39.33	V	4.0	19.96
0.083072	63.74	109.21	45.47	V	179.0	19.95
0.101637	62.57	107.46	44.89	V	115.0	19.95
0.164925	66.23	103.25	37.02	V	226.0	19.92
0.279350	59.35	98.68	39.33	V	25.0	19.93
0.393775	52.87	95.70	42.83	V	252.0	19.95
0.503225	51.63	73.57	21.94	V	355.0	19.95
0.722125	44.50	70.43	25.93	V	146.0	20.00

Spurious Emission Test (30MHz-1GHz)

Spurious radiated emissions for Transmitting mode 802.11B_2412MHz



Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.280000	24.13	40.00	15.87	100.0	H	186.0	17.94
102.103333	23.03	43.50	20.47	200.0	H	7.0	16.42
293.031667	27.61	46.00	18.39	100.0	H	68.0	18.35
399.839444	35.90	46.00	10.10	200.0	H	276.0	21.06
480.026111	38.41	46.00	7.59	100.0	H	131.0	22.39
880.258889	38.96	46.00	7.04	100.0	H	68.0	28.47



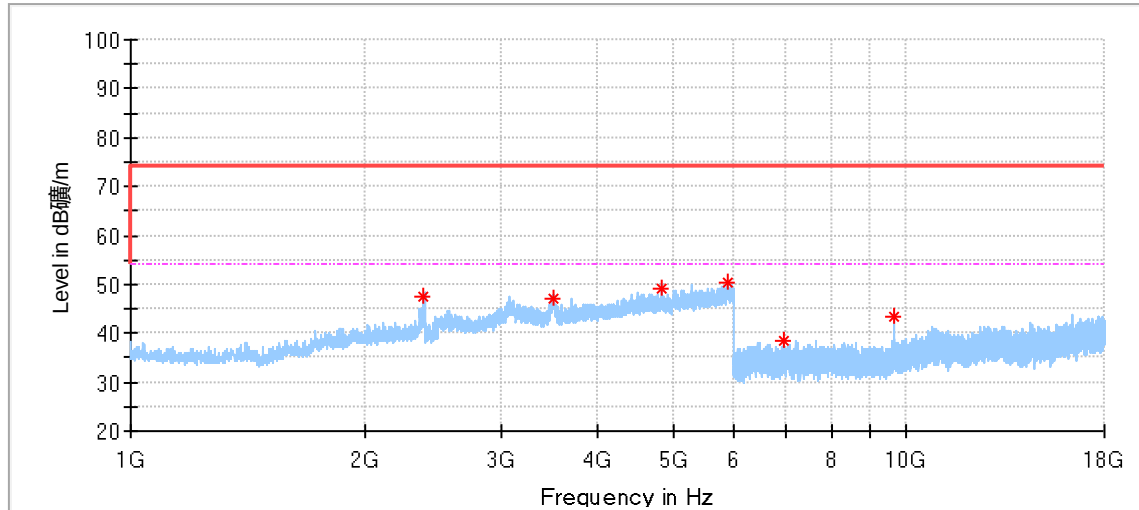
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
64.273333	25.10	40.00	14.90	100.0	V	47.0	15.77
294.055556	29.82	46.00	16.18	200.0	V	268.0	18.35
600.413889	34.94	46.00	11.06	200.0	V	356.0	25.23
743.381111	37.87	46.00	8.13	200.0	V	331.0	26.97

Final Result

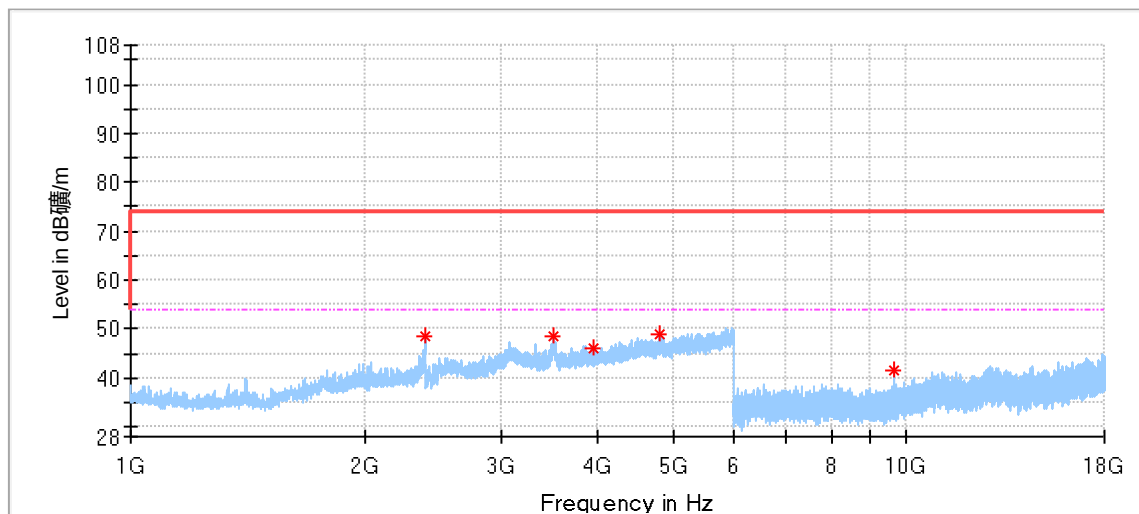
Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
400.001111*	37.26	46.00	8.74	100.0	V	72.0	21.06
479.972222	36.89	46.00	9.11	100.0	V	166.0	22.39

Spurious Emission Test (1GHz-18GHz)

Spurious radiated emissions for Transmitting mode 802.11B_2412MHz

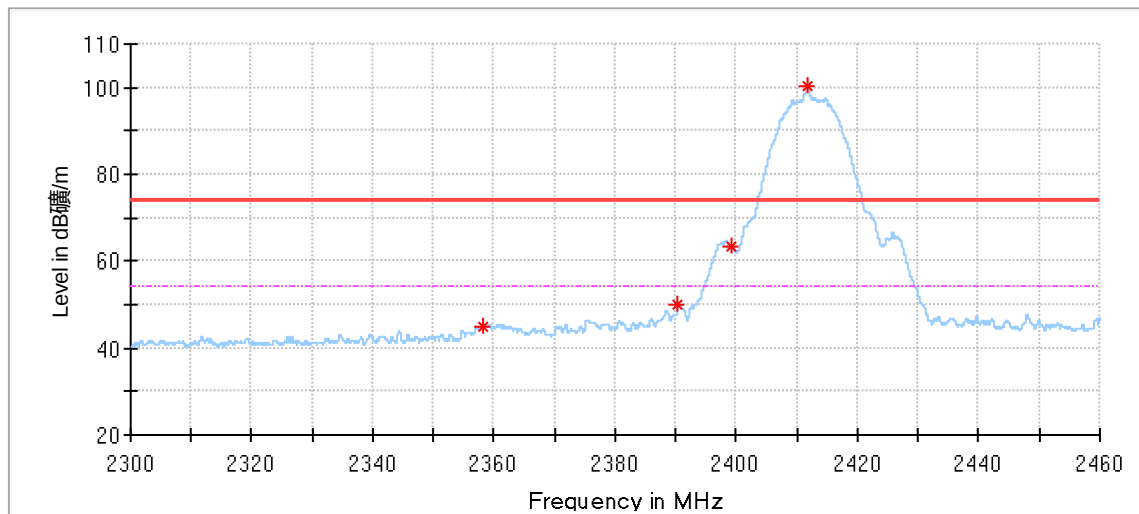


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.000000*	47.39	74.00	26.61	150.0	H	156.0	-2.83
3497.500000	47.13	74.00	26.87	150.0	H	276.0	3.58
4823.500000*	48.94	74.00	25.06	150.0	H	0.0	4.05
5885.000000	50.22	74.00	23.78	150.0	H	204.0	6.85
6970.000000	38.62	74.00	35.38	150.0	H	153.0	5.64
9648.500000	43.51	74.00	30.49	150.0	H	253.0	7.94

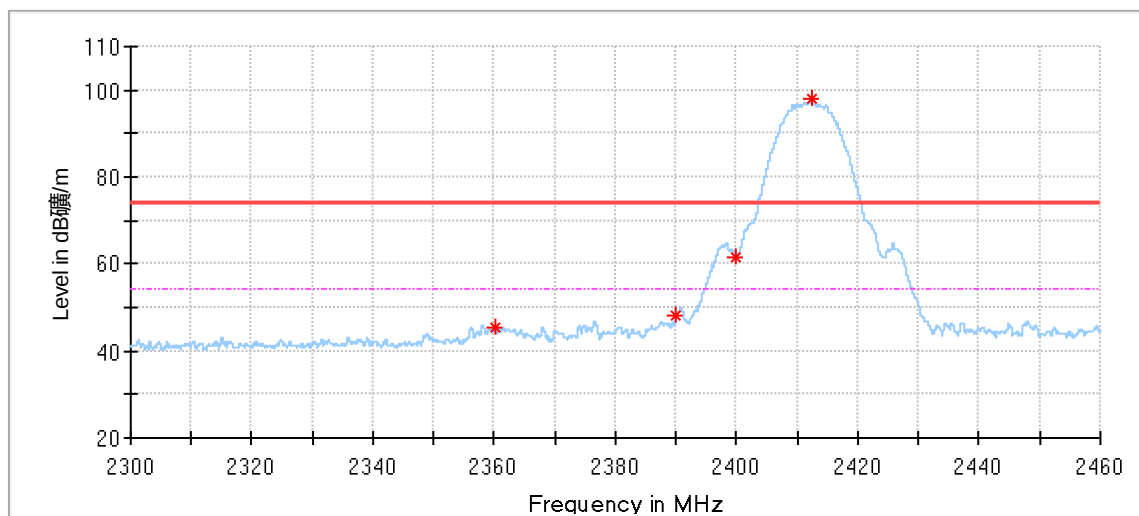


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
2394.500000	48.42	74.00	25.58	150.0	V	255.0	-2.76	---
3499.500000	48.60	74.00	25.40	150.0	V	349.0	3.72	---
3941.500000*	45.85	74.00	28.15	150.0	V	290.0	1.44	---
4817.000000*	48.94	74.00	25.06	150.0	V	243.0	4.06	---
9648.500000	41.48	74.00	32.52	150.0	V	304.0	7.94	---

Band edge for 802.11B_2412MHz

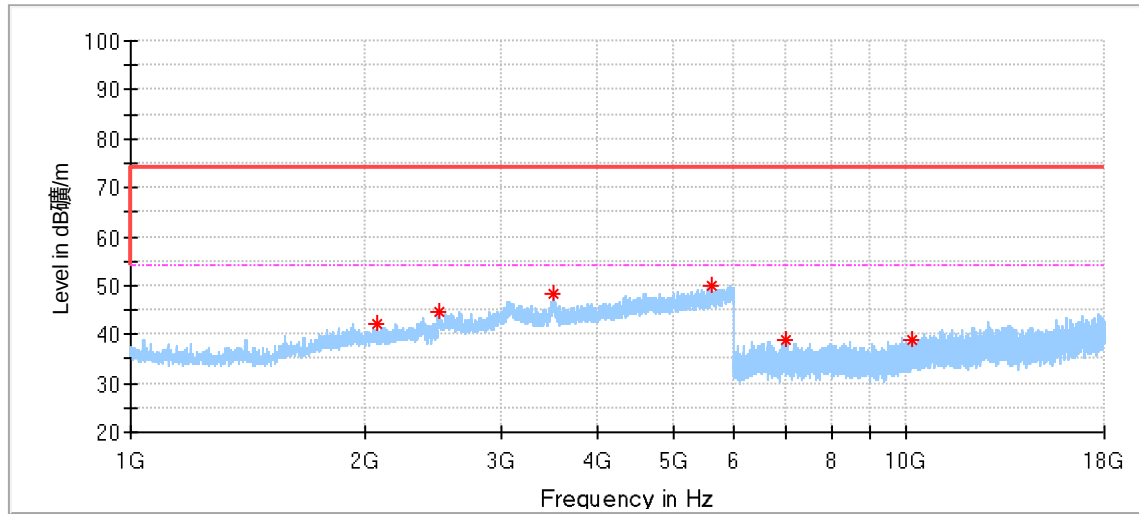


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2358.176000*	44.98	74.00	29.02	150.0	H	160.0	-3.70
2390.352000	50.10	74.00	23.90	150.0	H	277.0	-3.35
2399.200000	63.48	74.00	10.52	150.0	H	258.0	-3.32
2411.680000	100.41	74.00	-26.41	150.0	H	268.0	-3.20

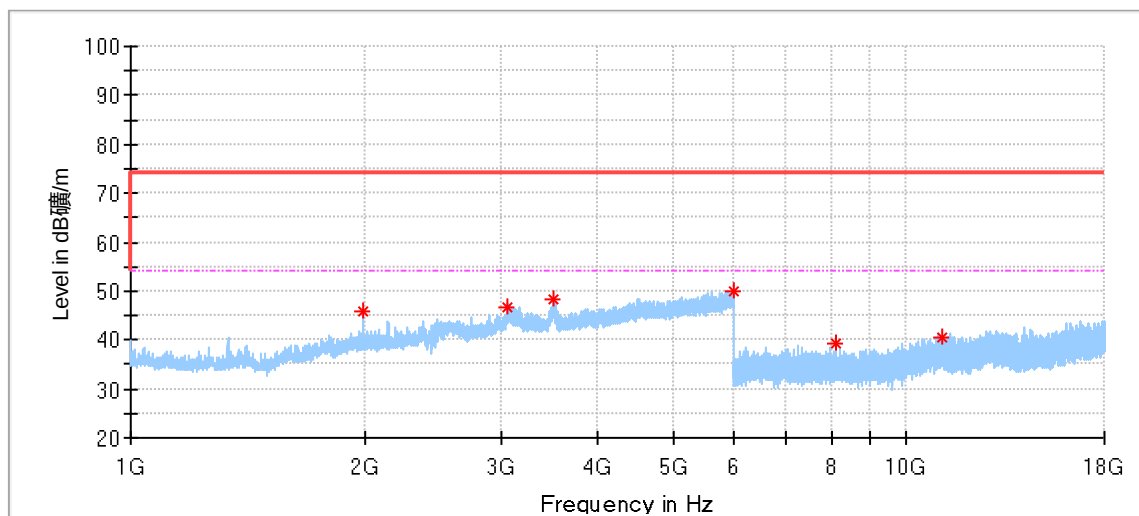


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
2360.288000*	45.58	74.00	28.42	150.0	V	237.0	-3.66	---
2390.000000*	48.11	74.00	25.89	150.0	V	256.0	-3.36	---
2400.000000	61.76	74.00	12.24	150.0	V	256.0	-3.32	---
2412.432000	97.83	74.00	-23.83	150.0	V	51.0	-3.19	---

Spurious radiated emissions for Transmitting mode 802.11B_2437MHz

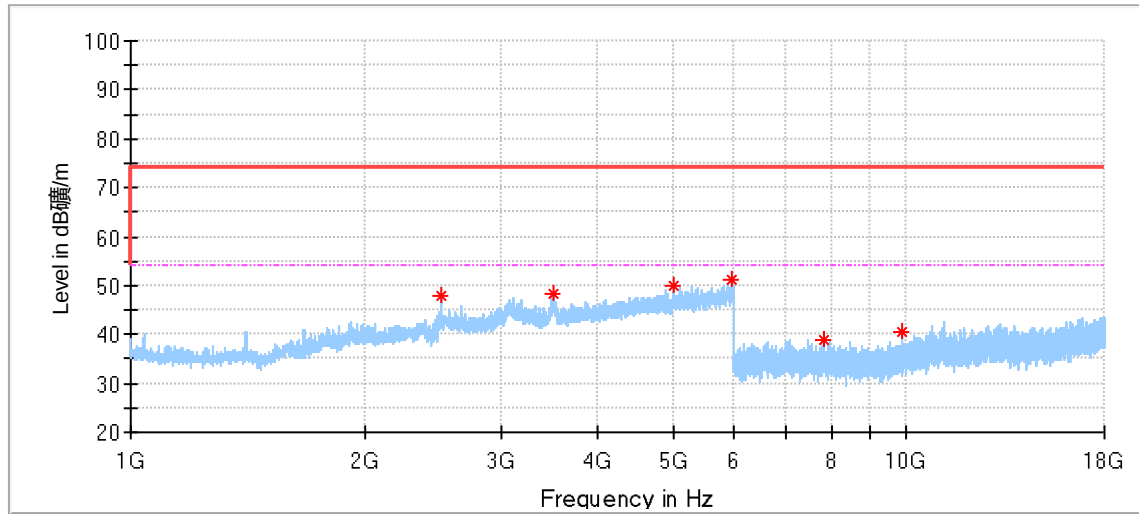


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2076.500000	42.11	74.00	31.89	150.0	H	13.0	-4.47
2500.500000	44.60	74.00	29.40	150.0	H	0.0	-2.08
3499.000000	48.16	74.00	25.84	150.0	H	219.0	3.69
5607.000000	49.93	74.00	24.07	150.0	H	338.0	5.65
6987.000000	38.96	74.00	35.04	150.0	H	180.0	5.62
10146.500000	38.92	74.00	35.08	150.0	H	131.0	8.71

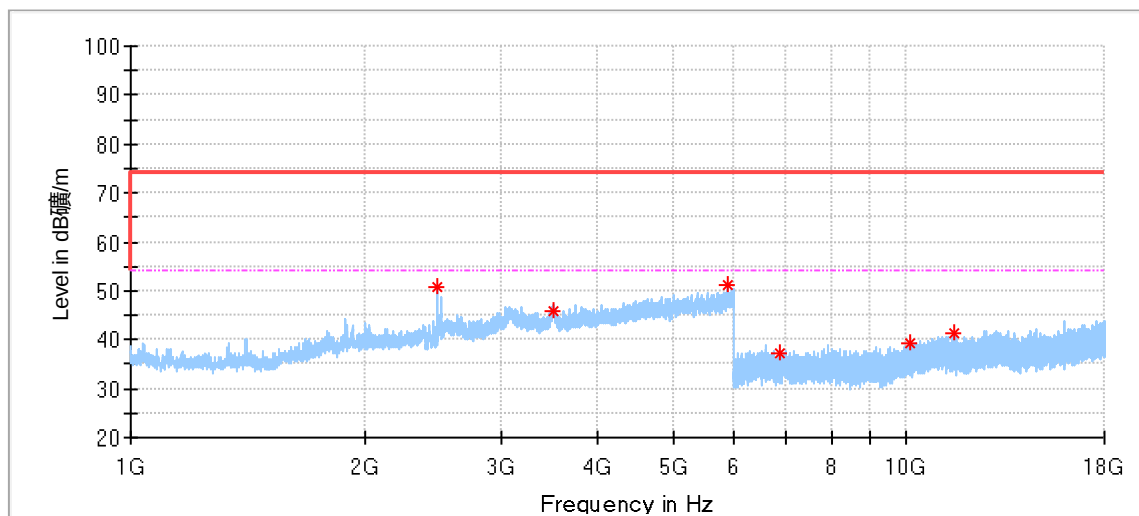


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1996.000000	45.91	74.00	28.09	150.0	V	180.0	-4.39
3064.000000	46.70	74.00	27.30	150.0	V	156.0	1.35
3498.500000	48.19	74.00	25.81	150.0	V	240.0	3.65
5994.500000	50.13	74.00	23.87	150.0	V	84.0	6.92
8098.000000*	39.14	74.00	34.86	150.0	V	253.0	6.57
11137.000000*	40.45	74.00	33.55	150.0	V	329.0	10.34

Spurious radiated emissions for Transmitting mode 802.11B_2462MHz

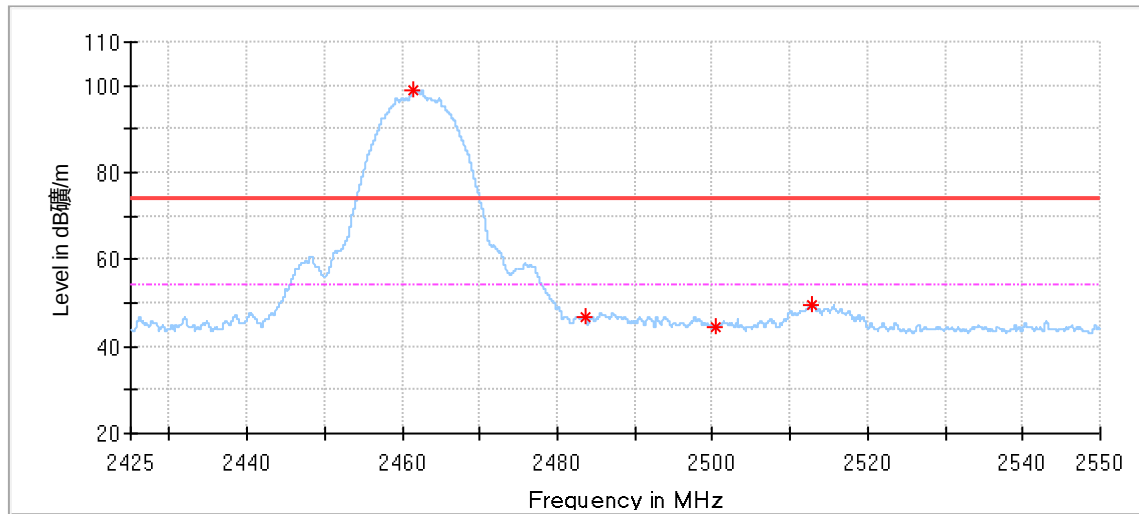


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2513.000000	47.77	74.00	26.23	150.0	H	120.0	-1.97
3508.000000	48.11	74.00	25.89	150.0	H	192.0	3.31
5000.000000*	49.95	74.00	24.05	150.0	H	108.0	4.30
5940.000000	51.24	74.00	22.76	150.0	H	60.0	6.87
7817.000000	39.04	74.00	34.96	150.0	H	356.0	6.35
9848.000000	40.63	74.00	33.37	150.0	H	253.0	8.33

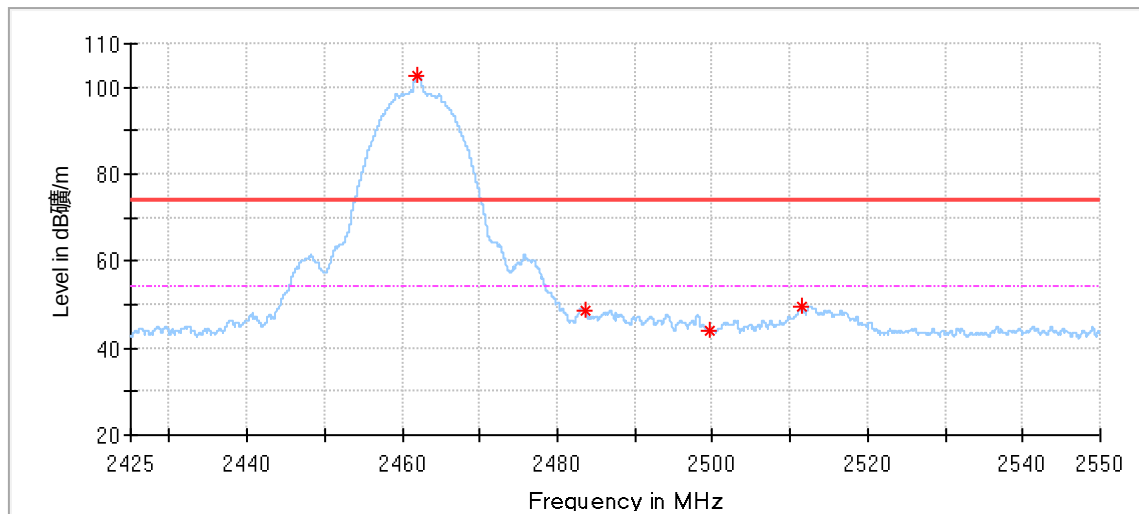


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.500000	50.76	74.00	23.24	150.0	V	99.0	-2.04
3498.000000	45.90	74.00	28.10	150.0	V	338.0	3.62
5870.000000	51.38	74.00	22.62	150.0	V	135.0	6.79
6848.000000	37.24	74.00	36.76	150.0	V	304.0	5.60
10113.500000	39.18	74.00	34.82	150.0	V	80.0	8.70
11548.000000*	41.25	74.00	32.75	150.0	V	229.0	10.44

Band edge for 802.11B_2462MHz

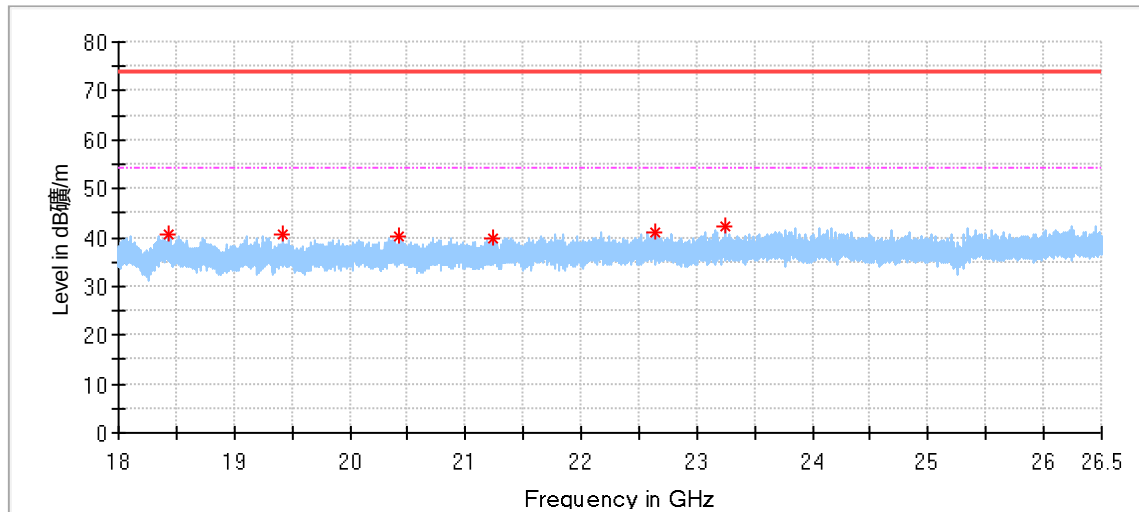


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2461.500000	99.14	74.00	-25.14	150.0	H	271.0	-2.76
2483.600000*	46.78	74.00	27.22	150.0	H	260.0	-2.68
2500.450000	44.52	74.00	29.48	150.0	H	260.0	-2.64
2512.862500	49.54	74.00	24.46	150.0	H	121.0	-2.55



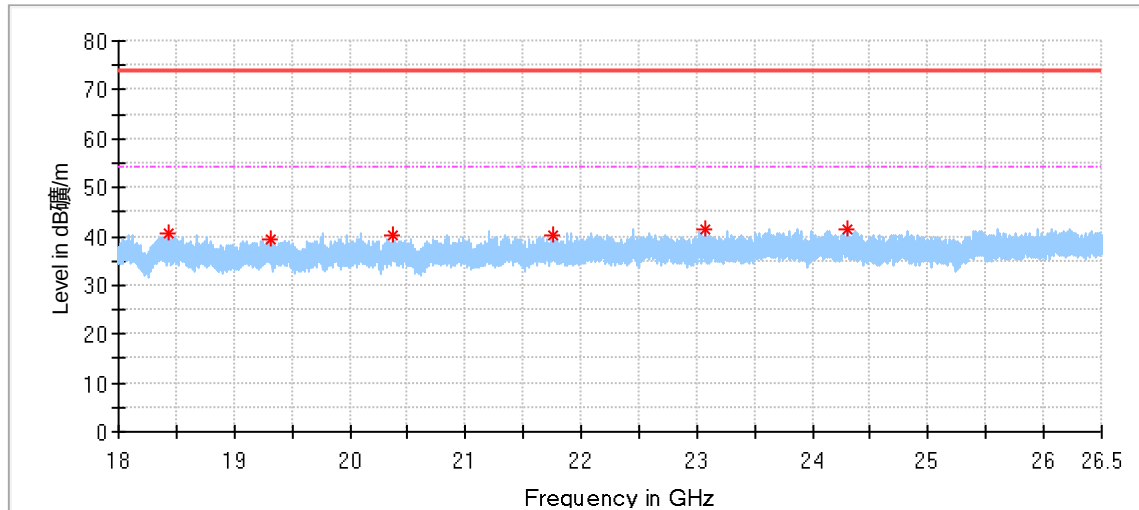
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2462.000000	102.62	74.00	-28.62	150.0	V	261.0	-2.76
2483.600000*	48.40	74.00	25.60	150.0	V	261.0	-2.68
2499.762500*	44.21	74.00	29.79	150.0	V	239.0	-2.64
2511.537500	49.62	74.00	24.38	150.0	V	261.0	-2.56

Spurious Emission Test (18GHz – 26.5GHz)



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18430.046875*	40.80	74.00	33.20	150.0	H	347.0	-4.47
19412.593750*	40.47	74.00	33.53	150.0	H	117.0	-4.15
20427.812500*	40.28	74.00	33.72	150.0	H	347.0	-3.14
21243.281250*	39.80	74.00	34.20	150.0	H	154.0	-2.28
22642.859375*	41.09	74.00	32.91	150.0	H	166.0	-0.79
23243.703125	42.14	74.00	31.86	150.0	H	81.0	-0.55



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18426.859375	40.42	74.00	33.58	150.0	V	276.0	-4.48
19321.484375	39.53	74.00	34.47	150.0	V	357.0	-4.21
20370.968750	40.14	74.00	33.86	150.0	V	61.0	-3.21
21751.421875	40.16	74.00	33.84	150.0	V	85.0	-1.71
23072.906250	41.29	74.00	32.71	150.0	V	0.0	-0.63
24296.109375	41.31	74.00	32.69	150.0	V	300.0	-0.16

Remark:

- (1) "*" means the emission(s) appear within the restrict bands shall follow the requirement of § 15.205 and RSS-Gen section 8.10.
- (2) Level= Reading Level + Correction Factor
Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

10 Test Equipment List

Conducted Emission 2# Test

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
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

Radiated Emission, 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	2024-8-7
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-001	15542	1	2025-5-11
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A20	----	----	----
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A21	----	----	----
Cable	JUNFLON	MWX221	68-4-90-14-001-A22	----	----	----
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, 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	2025-2-22
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2025-4-10
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
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2024-7-11
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2024-8-1
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2025-5-11
Cable	JUNFLON	MWX221	68-4-90-19-006-A20	----	----	----
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
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13

RF Conducted Test

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
Frequency Extender	TST PASS	TSTCMWEXT7	68-4-93-23-001-A01	WEX230017C	1	2025-5-12
Frequency Extender	TST PASS	TSTSGEXT7	68-4-93-23-001-A02	EX2300BA	1	2025-5-12
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	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A23	----	----	----
Test software	TST PASS	System for BT/WIFI	68-4-93-23-001-A03	Version 2.0	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	
Items	Extended Uncertainty
Uncertainty for Conducted Emission in new shielding room (68-4-90-19-005) 150kHz-30MHz (for test using AMN ENV216)	3.14dB
Uncertainty for Radiated Emission in 3m chamber (68-4-90-14-001) 9kHz-30MHz	4.69dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.59dB; Vertical: 4.75dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.96dB; Vertical: 6.10dB
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	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.

--- END OF REPORT---