

FCC/ISED - TEST REPORT

Report Number : **68.950.22.0768.01** Date of Issue: October 25, 2022

Model : QS02

Product Type : BenQ HDMI Media Streaming

Applicant : Benq Corporation

Address : 16 Jihu Road, Neihu, Taipei 114, Taiwan

Manufacturers : Benq Corporation

Address : 16 Jihu Road, Neihu, Taipei 114, Taiwan

Test Result : Positive Negative

Total pages including Appendices : 76

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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, Nantou
Checkpoint Road 2, Nanshan District
Shenzhen 518052
P.R. China

Telephone: 86 755 8828 6998

Fax: 86 755 8288 5299

FCC Registration No.: 514049

No.:

ISED test site number: 10320A

3 Description of the Equipment Under Test

Product/PMN:	BenQ HDMI Media Streaming
Model no/HVIN:	QS02
FVIN:	11.1.7
FCC ID:	JVPQS02
IC:	6175A-QS02
Options and accessories:	HDMI Cable, USB Cable
Rating:	Input: 5.0VDC, 1.0A
RF Transmission Frequency:	<p>Bluetooth BR+EDR: 2402-2480MHz Bluetooth LE: 2402-2480MHz Wi-Fi 2.4G: 2412-2462MHz Wi-Fi 5G: 5150MHz~5350MHz; Wi-Fi 5G: 5470MHz – 5725MHz Wi-Fi 5G: 5725MHz – 5850MHz.</p> <p>Note: until further notice, device subject to this section shall not be capable of transmitting in the band 5600-5650MHz. This restriction is for the protection of Environment Canada's weather radars operating in this band.</p>
No. of Operated Channel:	11
Modulation:	CCK, DSSS, OFDM
Antenna Type:	PIFA antenna
Antenna Gain:	Ant1 :2.59dBi Ant2: 3.76dBi
Description of the EUT:	The Equipment Under Test (EUT) is a BenQ HDMI Media Streaming support Bluetooth function.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2020 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 5, Amendment 2, February 2021	General Requirements and Information for the Certification of Radio Apparatus
RSS-247 Issue 2 February 2017	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices

All the test methods were according to KDB558074 D01 v05r02 DTS Measurement Guidance and ANSI C63.10 (2013).

5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart C/RSS-247 Issue 2/RSS-Gen Issue 5				
Test Condition			Test Result	Test Site
§15.207	RSS-GEN 8.8	Conducted emission AC power port	Pass	Site 1
§15.247 (b) (1)	RSS-247 5.4(d)	Conducted output power	Pass	Site 1
§15.247(e)	RSS-247 5.2(b)	Power spectral density	Pass	Site 1
§15.247(a)(2)	RSS-247 5.2(a) & RSS-GEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	Pass	Site 1
§15.247(a)(1)	RSS-247 5.1(b)	20dB Occupied bandwidth	N/A	--
§15.247(a)(1)	RSS-247 5.1(b)	Carrier frequency separation	N/A	--
§15.247(a)(1)(iii)	RSS-247 5.1(d)	Number of hopping frequencies	N/A	--
§15.247(a)(1)(iii)	RSS-247 5.1(d)	Dwell Time	N/A	--
§15.247(d)	RSS-247 5.5	Spurious RF conducted emissions	Pass	Site 1
§15.247(d)	RSS-247 5.5	Band edge	Pass	Site 1
§15.247(d) & §15.209 & §15.205	RSS-247 5.5 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	Pass	Site 1
§15.203	RSS-Gen 6.8	Antenna requirement	Pass See note 2	--

Note 1: N/A=Not Applicable.

Note 2: The EUT uses an PIFA antenna, which gain is Ant1: 2.59dBi, Ant2:3.76dBi. Direction gain:6.205dBi, It is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: JVPQS02, IC: 6175A-QS02 Complies with Section 15.205, 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules. and RSS-247 issue 2 and RSS-Gen issue 5 rules.

This report is for the 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: July 22, 2022

Testing Start Date: July 22, 2022

Testing End Date: October 14, 2022

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

Reviewed by:

Prepared by:

Tested by:



John Zhi
Section Manager



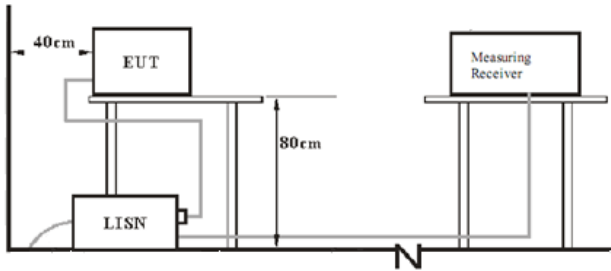
Mark Chen
Project Engineer




Carry Cai
Test Engineer

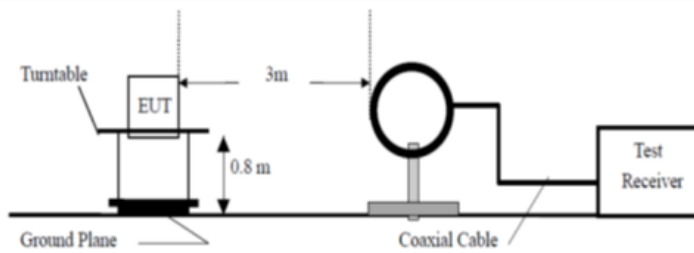
7 Test Setups

7.1 AC Power Line Conducted Emission test setups

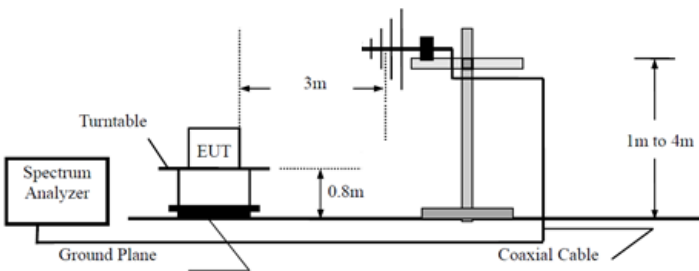


7.2 Radiated test setups

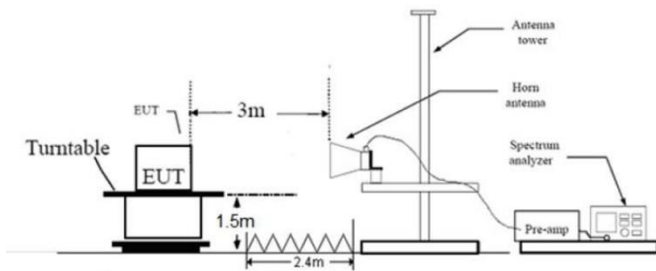
9KHz-30MHz



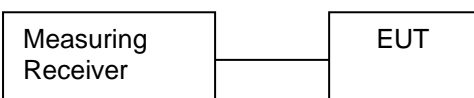
Below 1GHz



Above 1GHz



7.3 Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	X220	---
Display	DELL	---	---
Remote Control	---	---	---
Adapter	---	---	---

Through pre-scan all kind of modulation and all kind of rates, find the 1Mbps of rate is the worst case of 802.11b; the 6Mbps of rate is the worst case of 802.11g; the Mcs0 of rate is the worst case of 802.11N20(SISO), the Mcs0 of rate is the worst case of 802.11 AX20(SISO). the Mcs8 of rate is the worst case of 802.11N20(MIMO), the Mcs8 of rate is the worst case of 802.11 AX20(MIMO). only the worst case transmitter rate data mode in recorded in the report.

9 Technical Requirement

9.1 Conducted emission AC power port

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

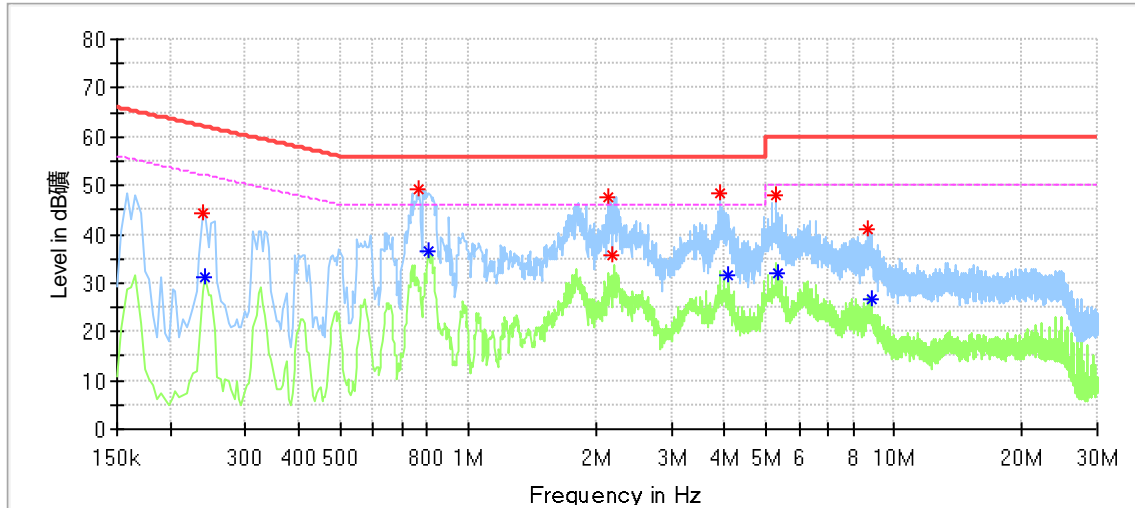
conducted emissions limit as below:

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 : BenQ HDMI Media Streaming
 M/N : QS02
 Operating Condition : Normal working with transmitting
 Test specification : Live
 Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB/m)
0.238000	44.27	---	62.17	17.90	L1	9.23
0.242000	---	31.31	62.03	30.71	L1	9.23
0.766000	49.12	---	56.00	6.88	L1	9.20
0.806000	---	36.48	56.00	19.52	L1	9.20
2.134000	47.55	---	56.00	8.45	L1	9.23
2.178000	35.59	---	56.00	20.41	L1	9.23
3.902000	48.37	---	56.00	7.63	L1	9.28
4.094000	---	31.60	56.00	24.40	L1	9.28
5.266000	47.90	---	60.00	12.10	L1	9.31
5.362000	---	32.02	60.00	27.98	L1	9.32
8.674000	41.17	---	60.00	18.83	L1	9.38
8.870000	---	26.47	60.00	33.53	L1	9.38

Remark:

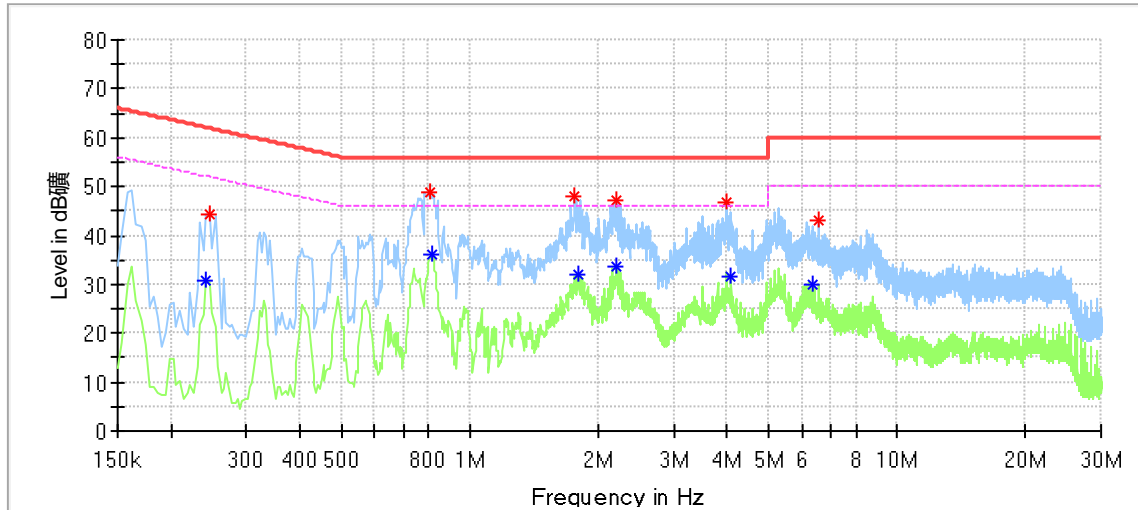
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

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

Conducted Emission

Product Type : BenQ HDMI Media Streaming
 M/N : QS02
 Operating Condition : Normal working with transmitting
 Test specification : Neutral
 Comment : AC 120V/60Hz



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB/m)
0.242000	---	30.68	62.03	31.35	N	9.39
0.246000	44.40	---	61.89	17.50	N	9.39
0.806000	48.88	---	56.00	7.12	N	9.39
0.818000	---	36.02	56.00	19.98	N	9.39
1.762000	47.83	---	56.00	8.17	N	9.41
1.798000	---	32.08	56.00	23.92	N	9.41
2.206000	---	33.53	56.00	22.47	N	9.42
2.210000	47.12	---	56.00	8.88	N	9.42
3.994000	46.85	---	56.00	9.15	N	9.47
4.090000	---	31.53	56.00	24.47	N	9.47
6.334000	---	30.06	60.00	29.94	N	9.54
6.530000	43.01	---	60.00	16.99	N	9.54

Remark:

Level=Reading Level + Correction Factor

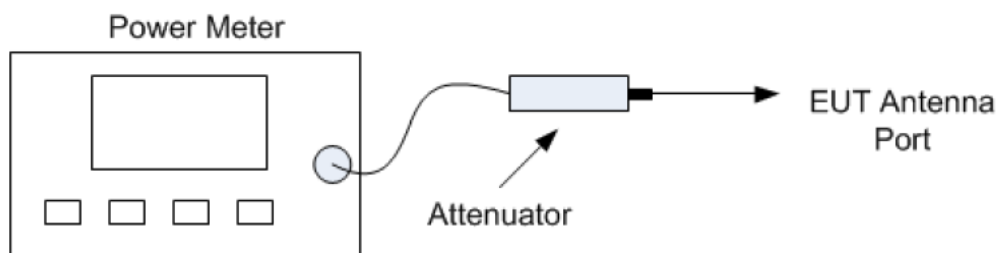
Correction Factor=Cable Loss + LISN Factor

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

9.2 Conducted peak output power

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

Frequency Range MHz	conducted peak output power limit W	conducted peak output power limit dBm	Limit dBm
2400-2483.5	≤1	30	≤30

Frequency Range MHz	EIRP W	EIRP dBm	Limit dBm
2400-2483.5	≤4	36	≤39

The total conducted output power shall be reduced by 1dB below the specified limits for each 3dB that the directional gain of the antenna/antenna array exceeds 6dBi

$$\text{Direction gain} = 10 \log[(10^{2.59/20} + 10^{3.76/20})^2 / 2] = 6.205 \text{dBi}$$

Frequency Range MHz	Limit dBm
2400-2483.5	≤27.932

$$\text{EIPR(dBm)} = \text{conducted output power(dBm)} + \text{antenna Gian(dBi)}$$

Test result as below table

802.11b modulation Test Result

Frequency (MHz)	Conducted Peak Output Power Ant1 (dBm)	Conducted Peak Output Power Ant2 (dBm)	Antenna Gain 1 (dBi)	Antenna Gain 2 (dBi)	EIRP Ant1 (dBm)	EIRP Ant2 (dBm)	Result
Low channel 2412MHz	12.7	13.0	2.59	3.76	15.29	16.76	Pass
Middle channel 2437MHz	12.3	12.2	2.59	3.76	14.89	15.96	Pass
High channel 2462MHz	12.2	12.2	2.59	3.76	14.79	15.96	Pass

802.11g modulation Test Result

Frequency (MHz)	Conducted Peak Output Power Ant1 (dBm)	Conducted Peak Output Power Ant2 (dBm)	Antenna Gain 1 (dBi)	Antenna Gain 2 (dBi)	EIRP Ant1 (dBm)	EIRP Ant2 (dBm)	Result
Low channel 2412MHz	12.2	13.6	2.59	3.76	14.79	17.36	Pass
Middle channel 2437MHz	11.8	13.2	2.59	3.76	14.39	16.96	Pass
High channel 2462MHz	11.7	13.2	2.59	3.76	14.29	16.96	Pass

802.11n20 modulation Test Result

Frequency (MHz)	Conducted Peak Output Power Ant1 (dBm)	Conducted Peak Output Power Ant2 (dBm)	Total Conducted Peak output power(dBm)	Antenna Gain 1 (dBi)	Antenna Gain 2 (dBi)	EIRP Ant1 (dBm)	EIRP Ant2 (dBm)	Total EIRP (dBm)	Result
Low channel 2412MHz	12.1	13.7	15.98	2.59	3.76	14.69	17.46	19.30	Pass
Middle channel 2437MHz	11.8	13.0	15.45	2.59	3.76	14.39	16.76	18.75	Pass
High channel 2462MHz	11.7	13.3	15.58	2.59	3.76	14.29	17.06	18.90	Pass

802.11ax modulation Test Result

Frequency (MHz)	Conducted Peak Output Power Ant1 (dBm)	Conducted Peak Output Power Ant2 (dBm)	Total Conducted Peak output power(dBm)	Antenna Gain 1 (dBi)	Antenna Gain 2 (dBi)	EIRP Ant1 (dBm)	EIRP Ant2 (dBm)	Total EIRP (dBm)	Result
Low channel 2412MHz	9.6	10.7	13.20	2.59	3.76	12.19	14.46	16.48	Pass
Middle channel 2437MHz	8.7	10.6	12.76	2.59	3.76	11.29	14.36	16.10	Pass
High channel 2462MHz	8.9	10.9	13.02	2.59	3.76	11.49	14.66	16.37	Pass

9.3 6dB bandwidth & 99%OBW

Test Method

1. Connect EUT test port to spectrum analyzer.
2. Use the following spectrum analyzer settings:
Set RBW \geq 1% of the 99% bandwidth, VBW \geq RBW.
Sweep = auto, Detector function = peak, Trace = max hold
3. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
4. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]

≥500

802.11b modulation Test Result

Frequency (MHz)	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
Low channel 2412MHz	7.160	11.828	Pass
Middle channel 2437MHz	7.160	11.828	Pass
High channel 2462MHz	7.160	11.868	Pass

802.11g modulation Test Result

Frequency (MHz)	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
Low channel 2412MHz	16.400	17.742	Pass
Middle channel 2437MHz	16.400	17.782	Pass
High channel 2462MHz	16.400	17.742	Pass

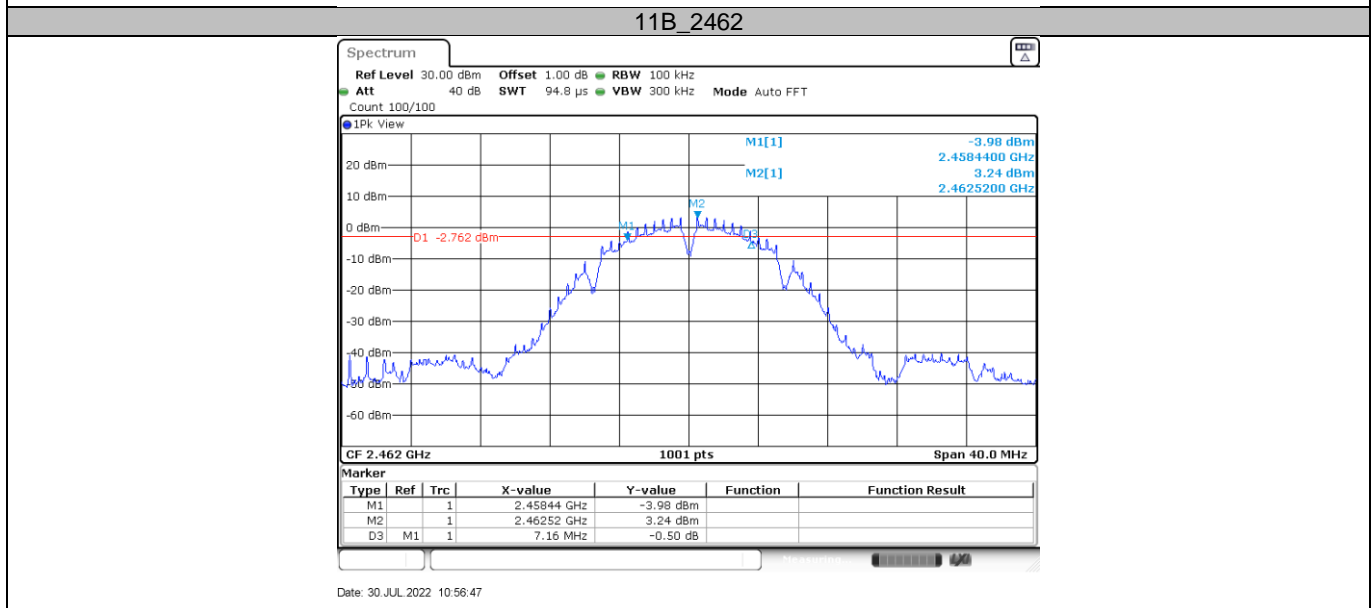
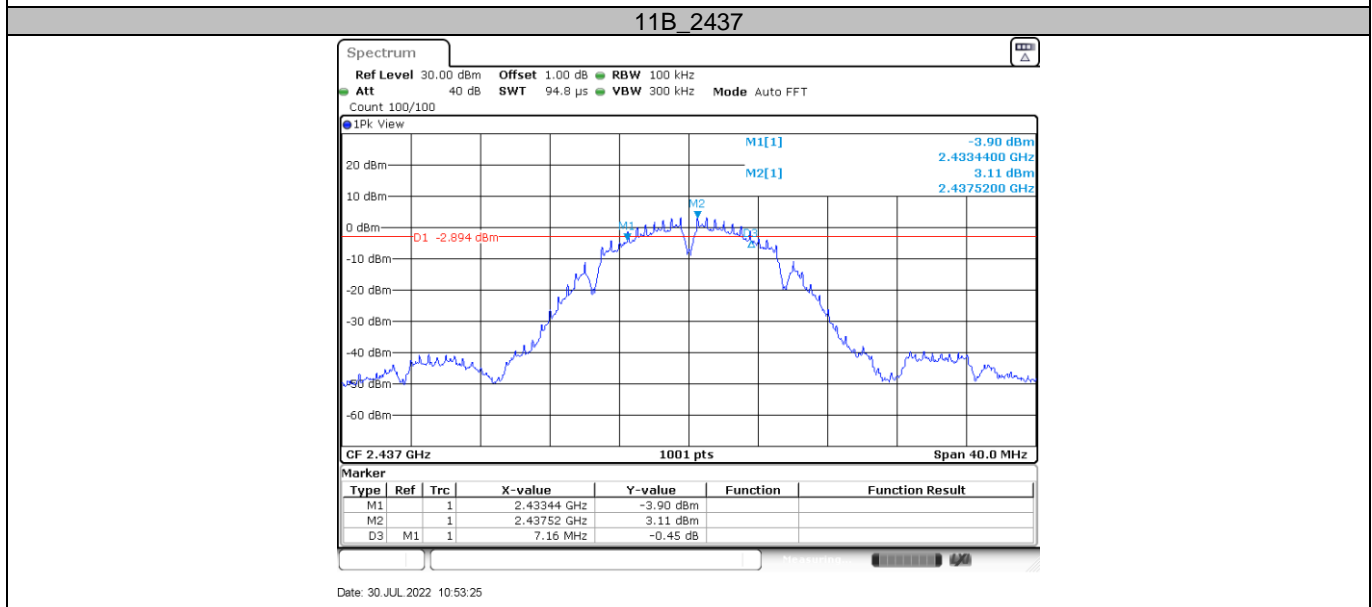
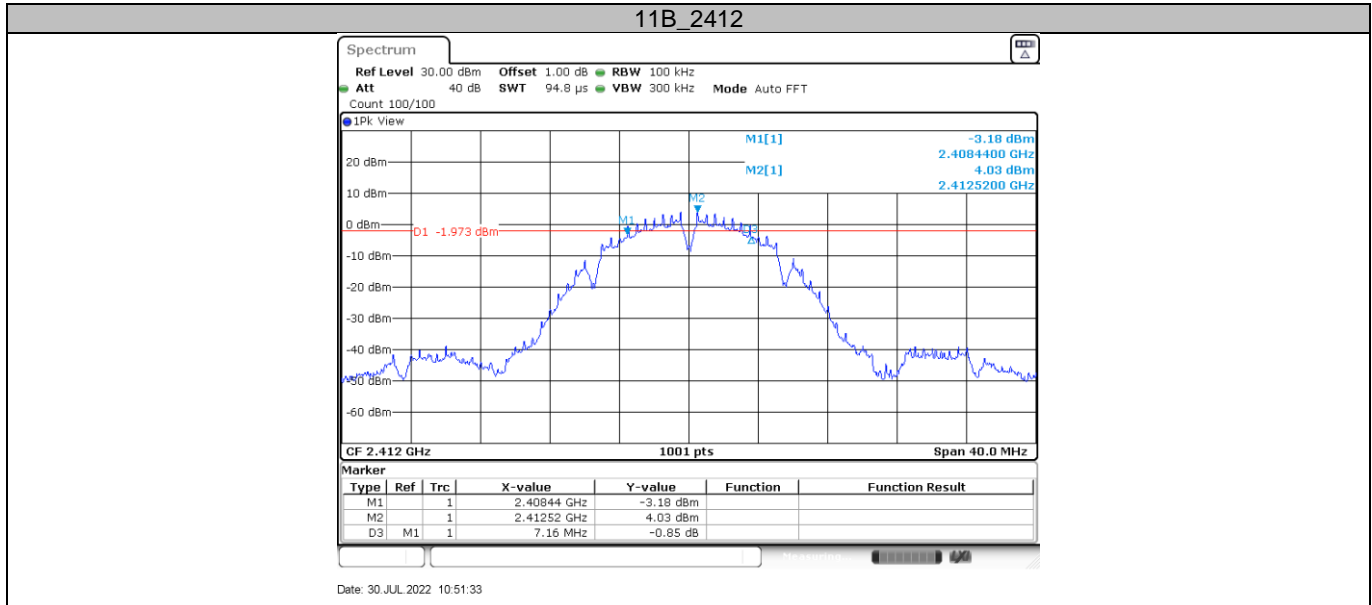
802.11n-HT20 modulation Test Result

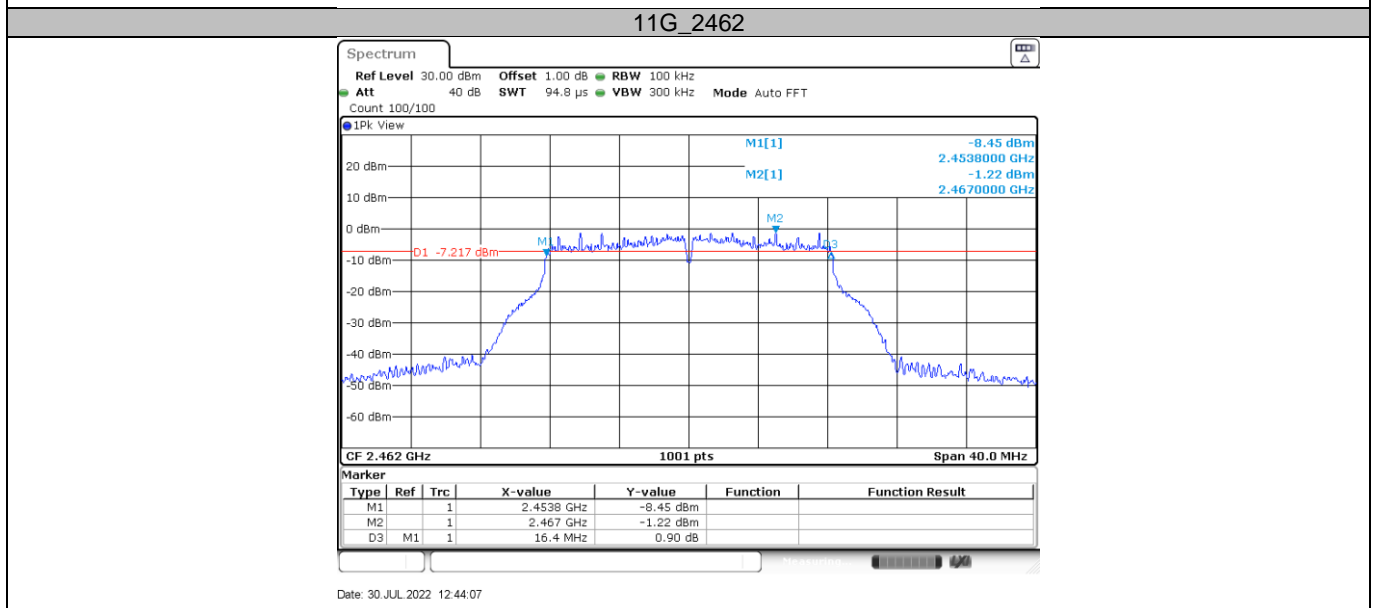
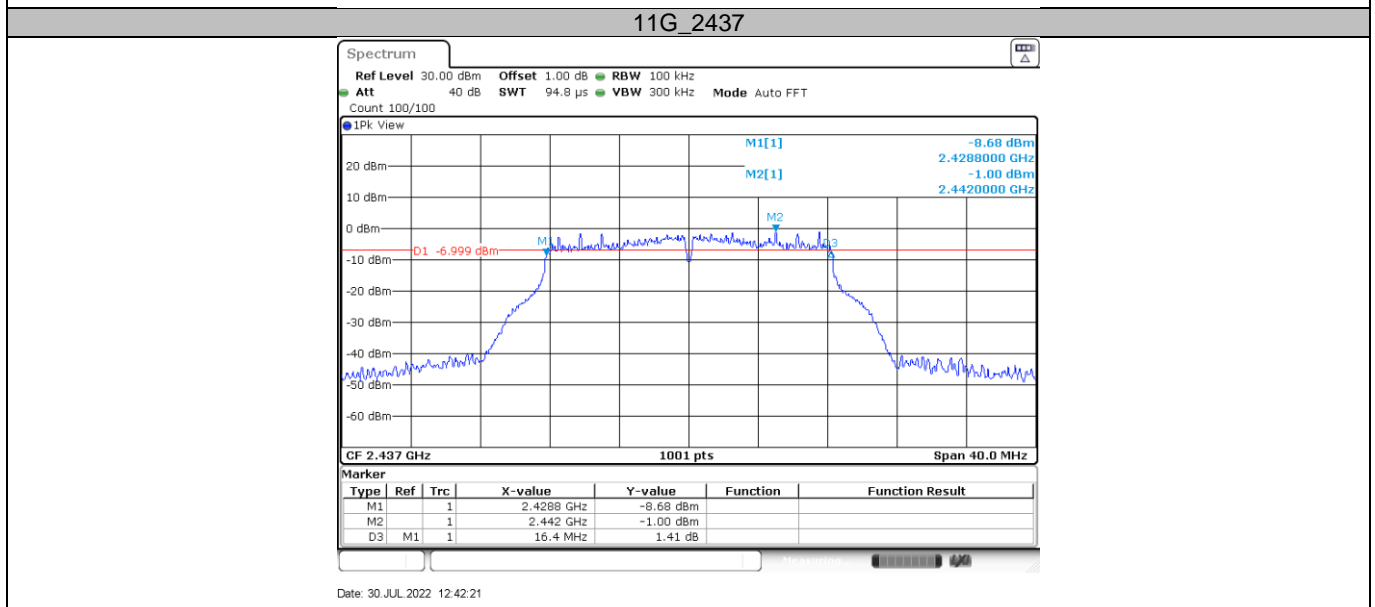
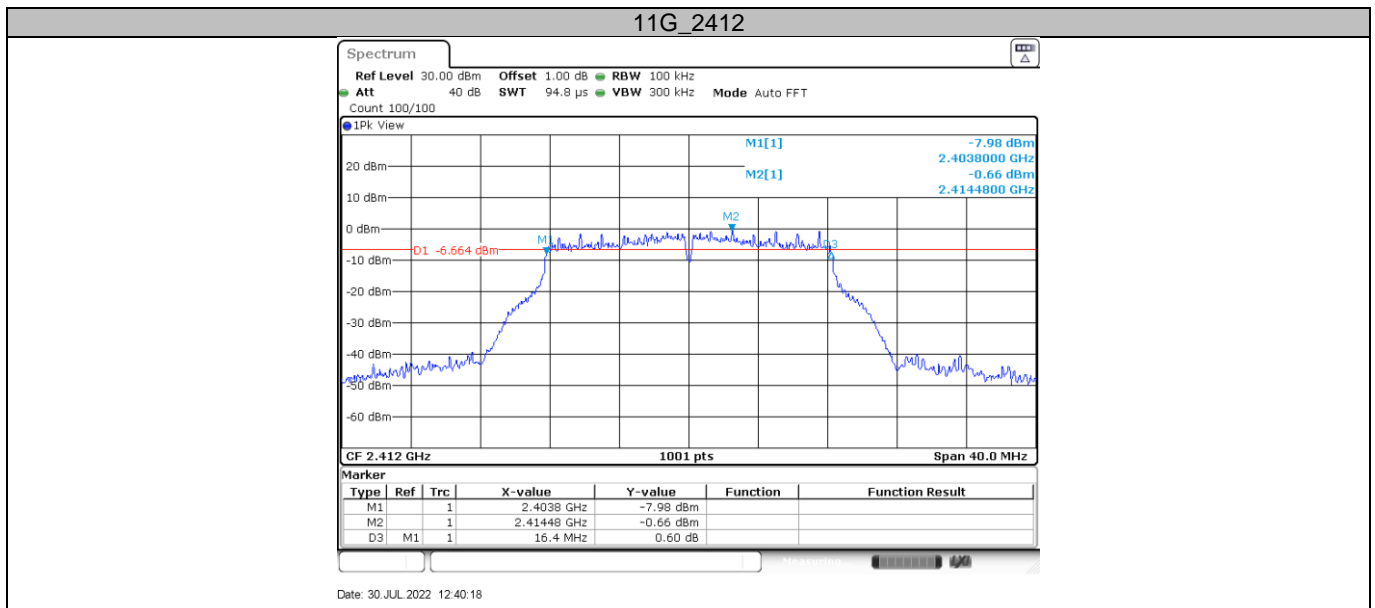
Frequency (MHz)	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
Low channel 2412MHz	17.640	18.621	Pass
Middle channel 2437MHz	17.640	18.701	Pass
High channel 2462MHz	17.680	18.621	Pass

802.11ax-HT20 modulation Test Result

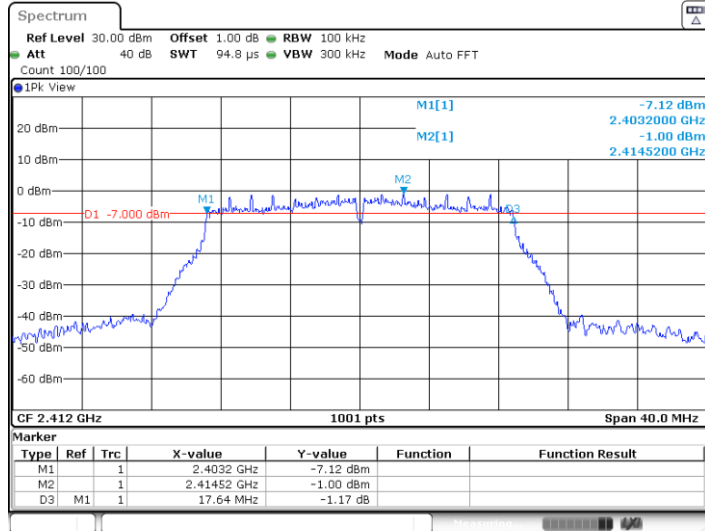
Frequency (MHz)	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
Low channel 2412MHz	18.760	19.101	Pass
Middle channel 2437MHz	18.680	19.141	Pass
High channel 2462MHz	18.840	19.061	Pass

6 dB Bandwidth

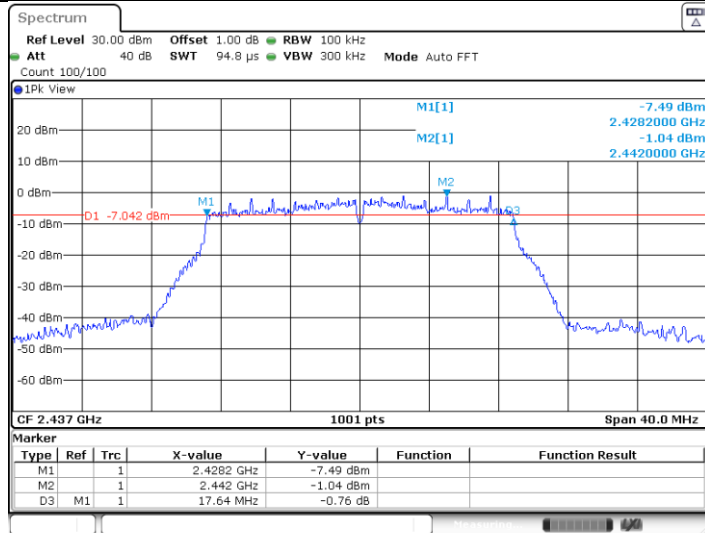




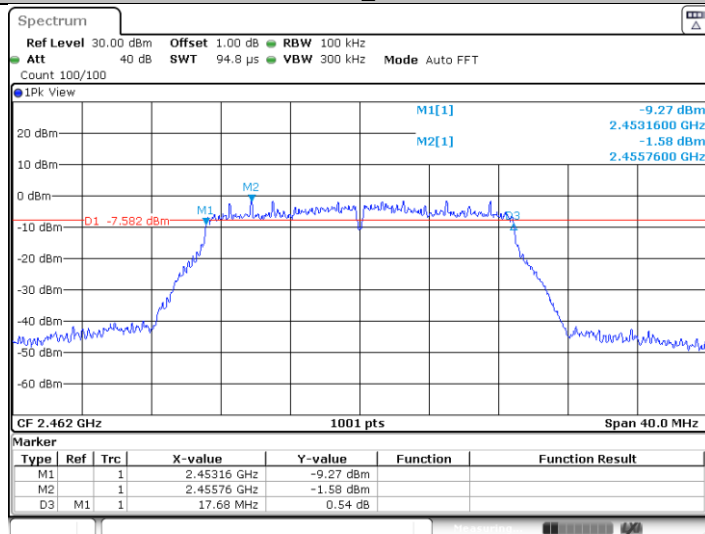
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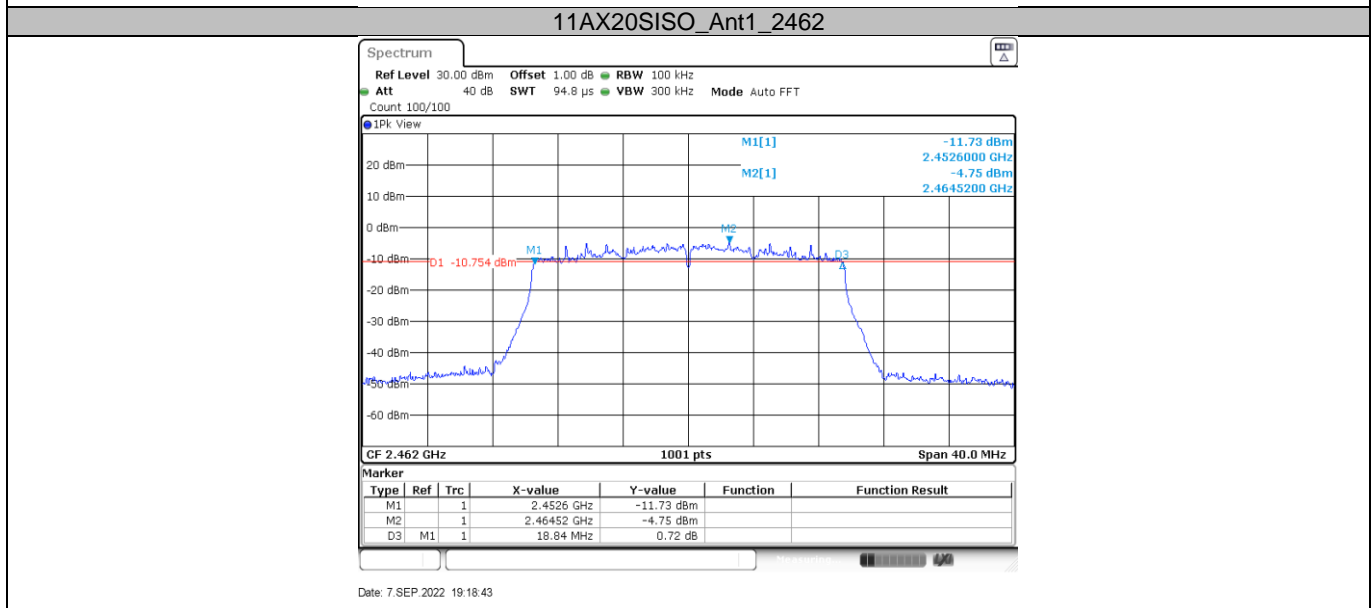
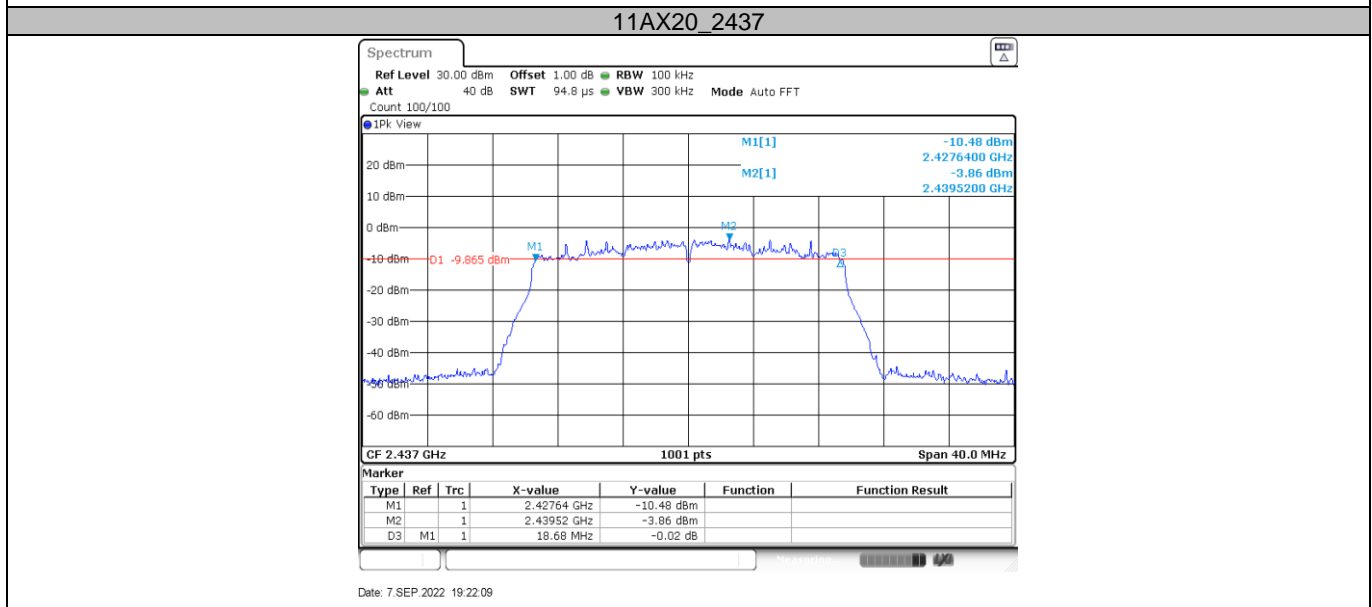
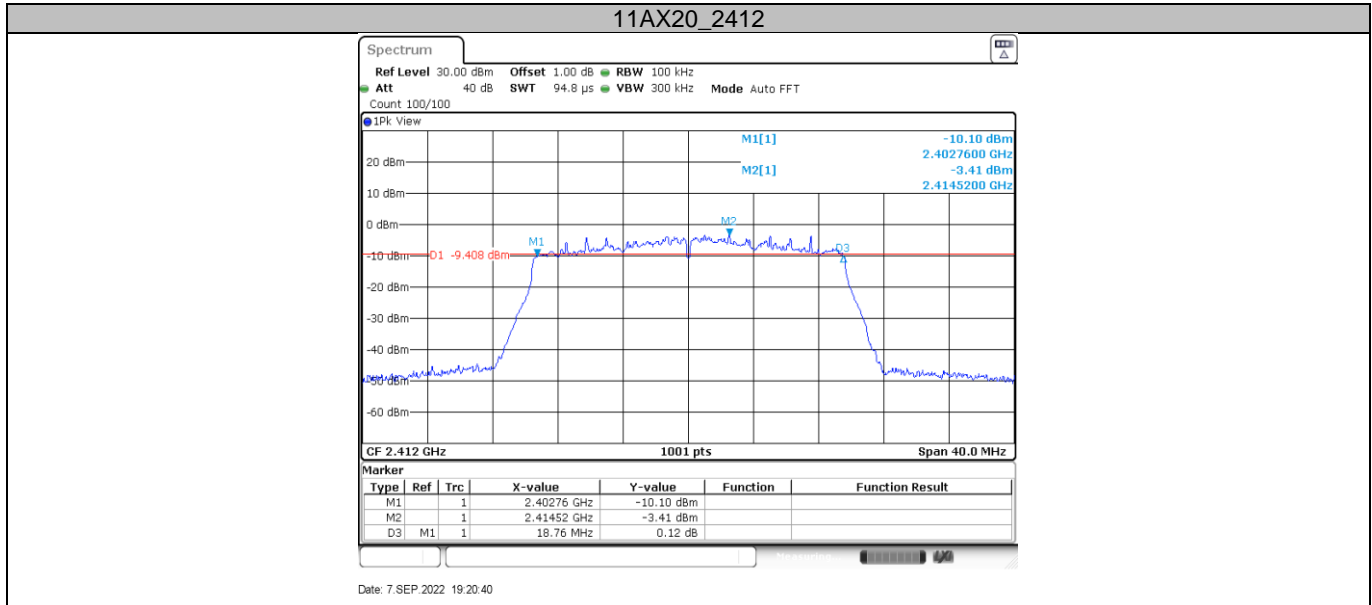


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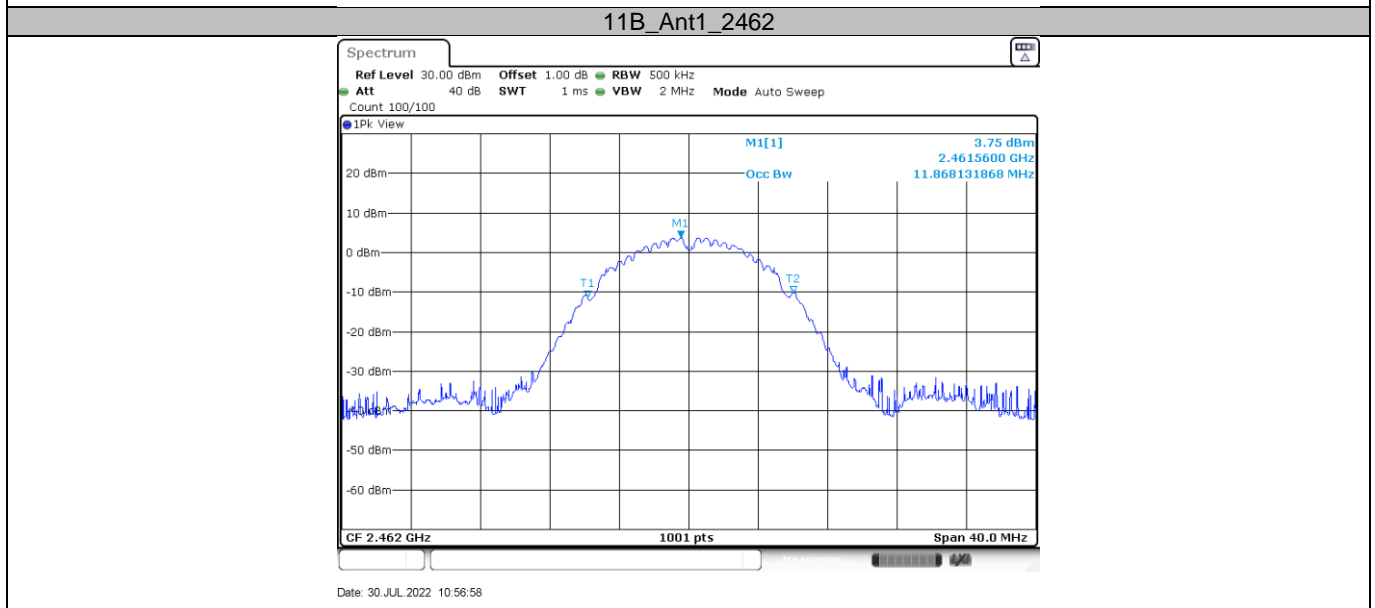
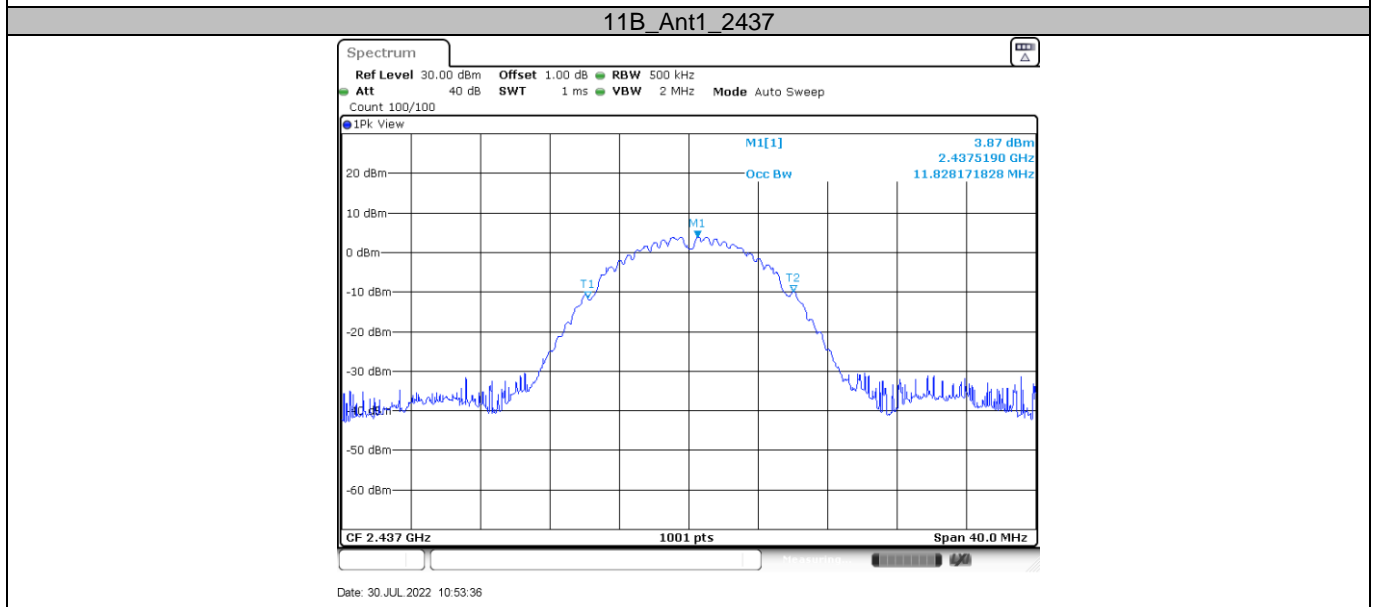
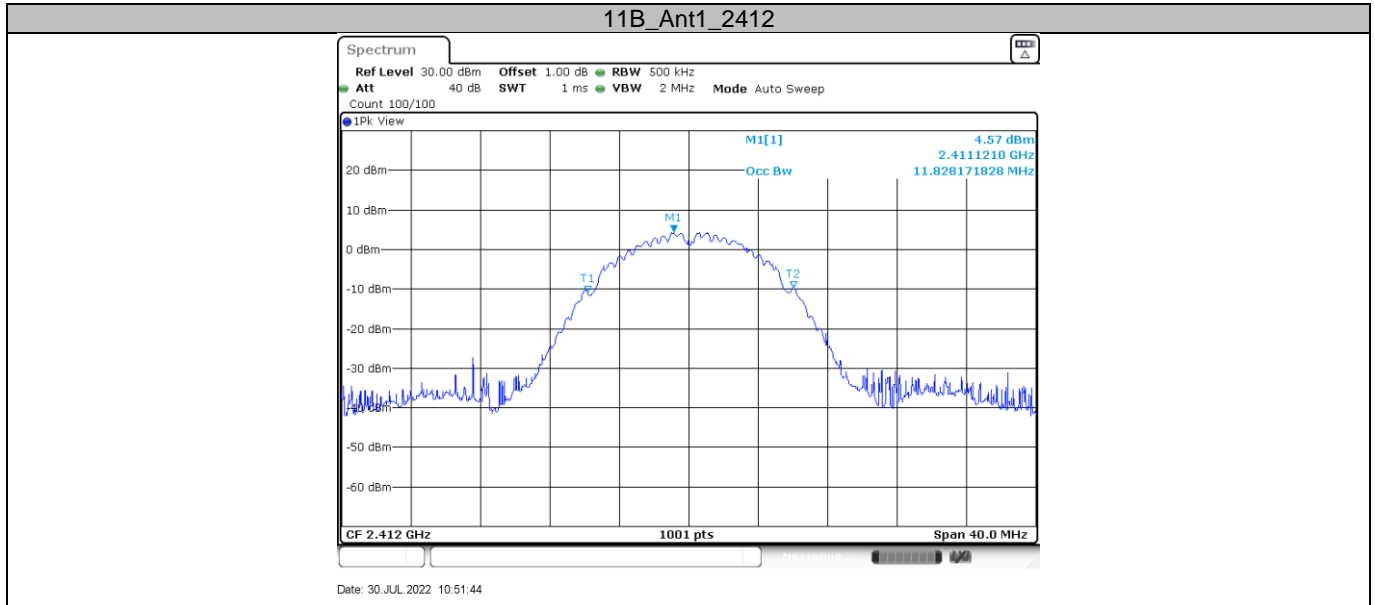


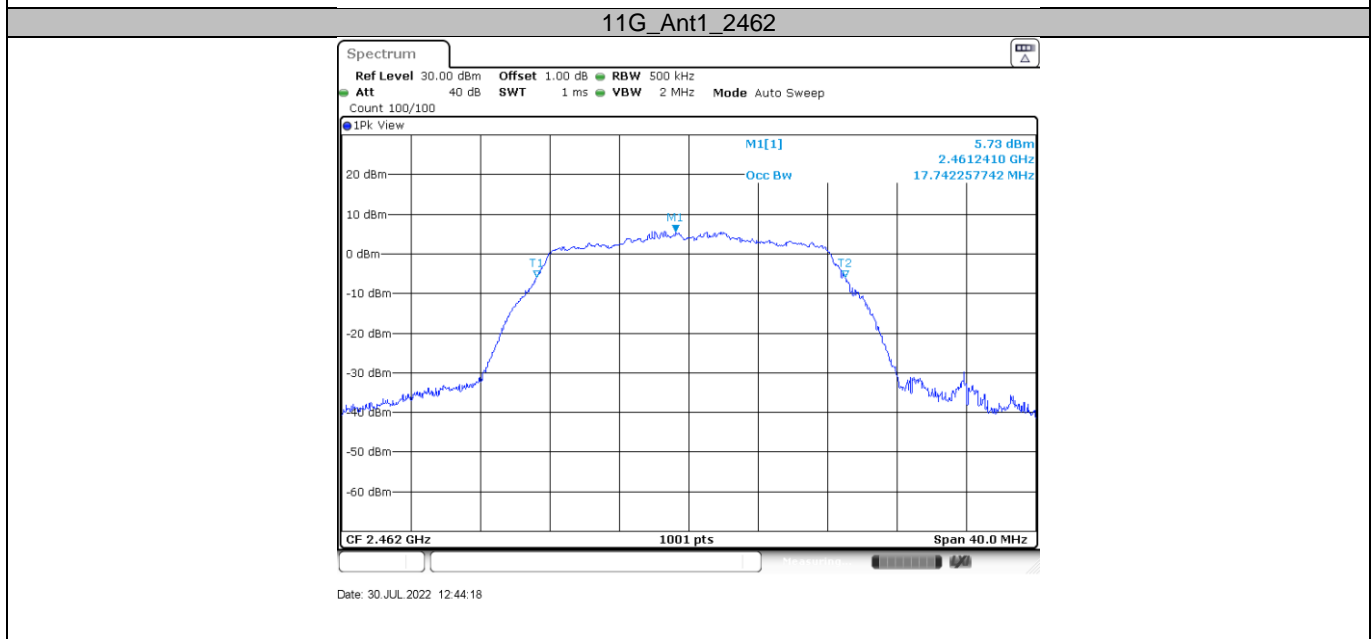
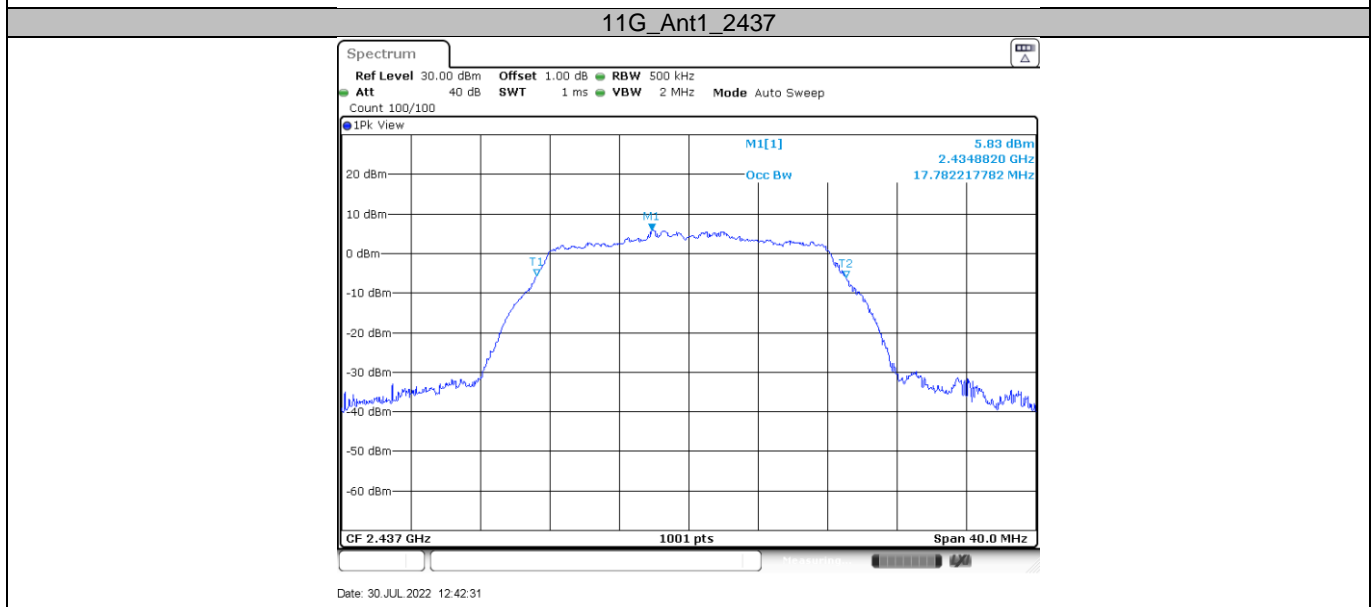
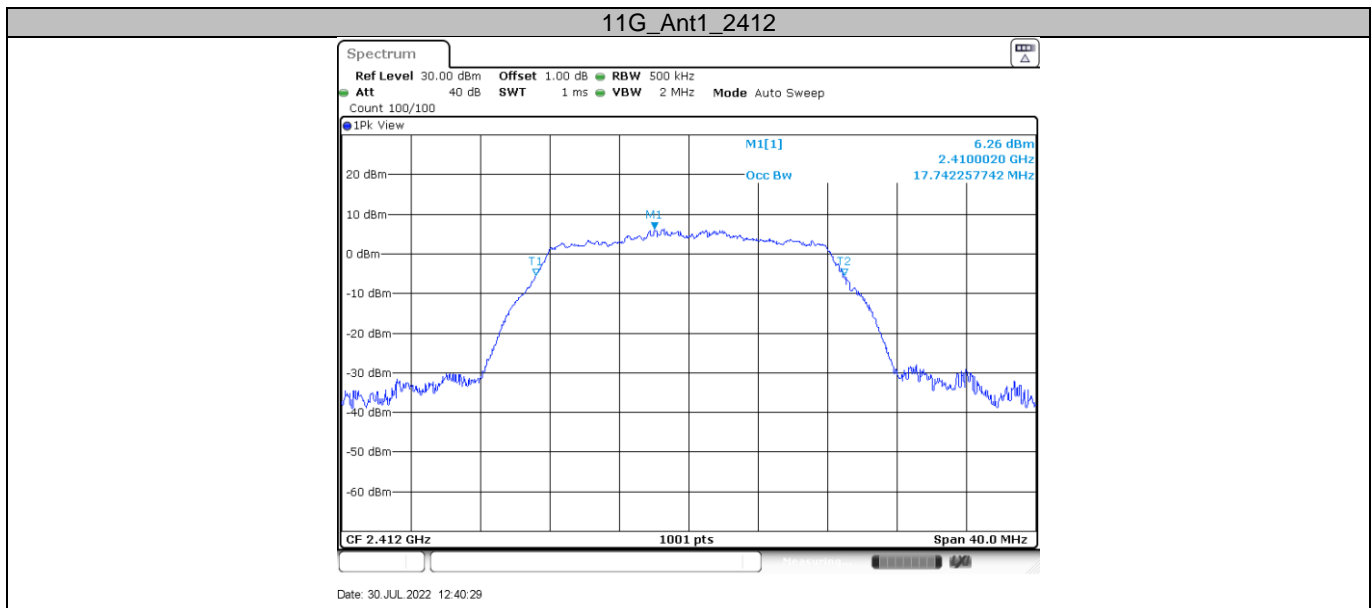
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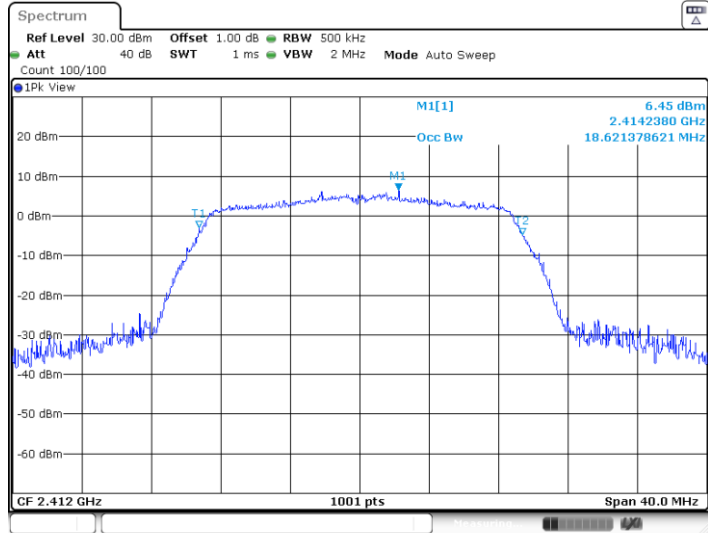


99% dB Bandwidth



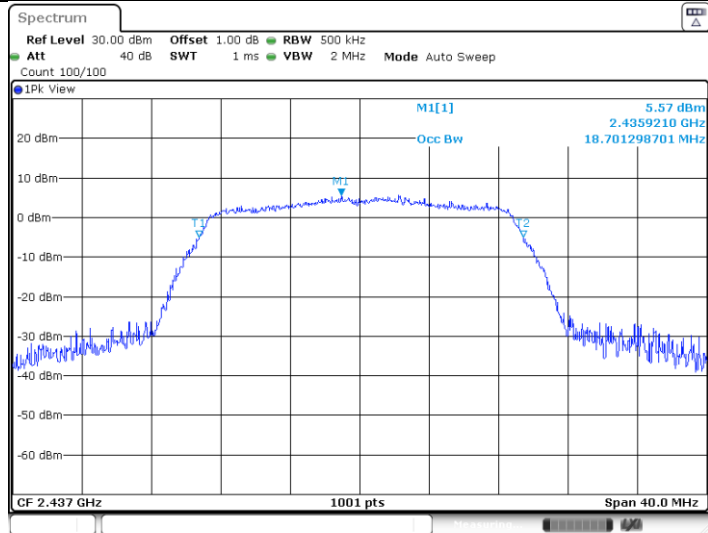


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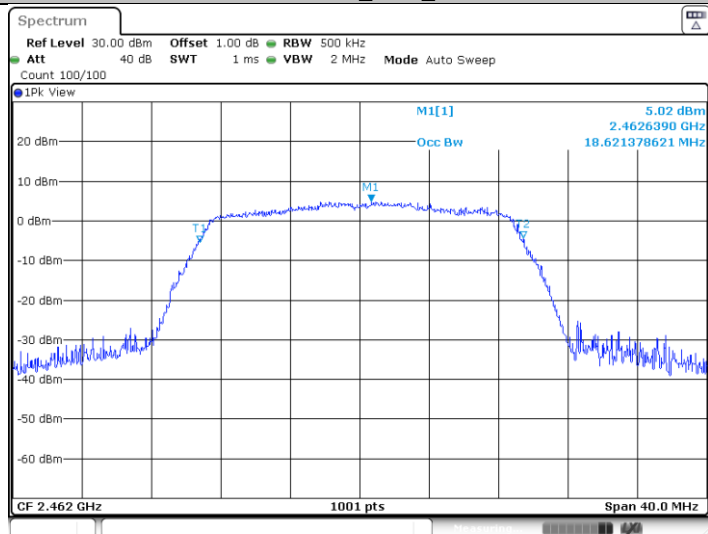
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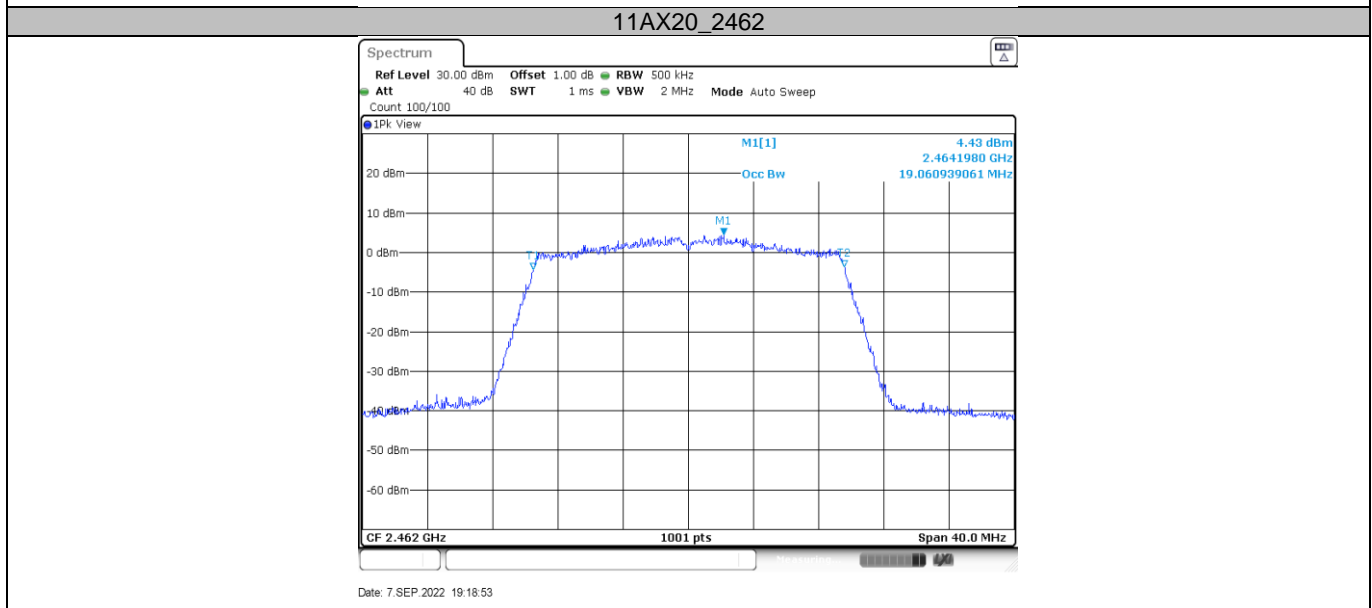
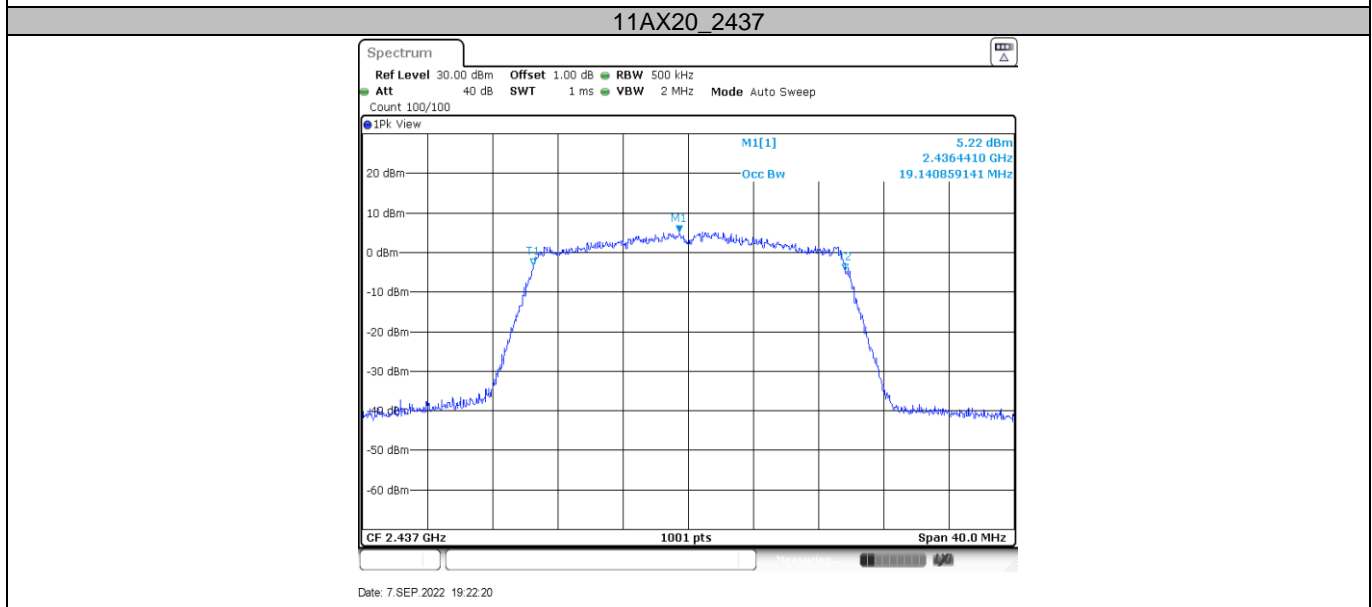
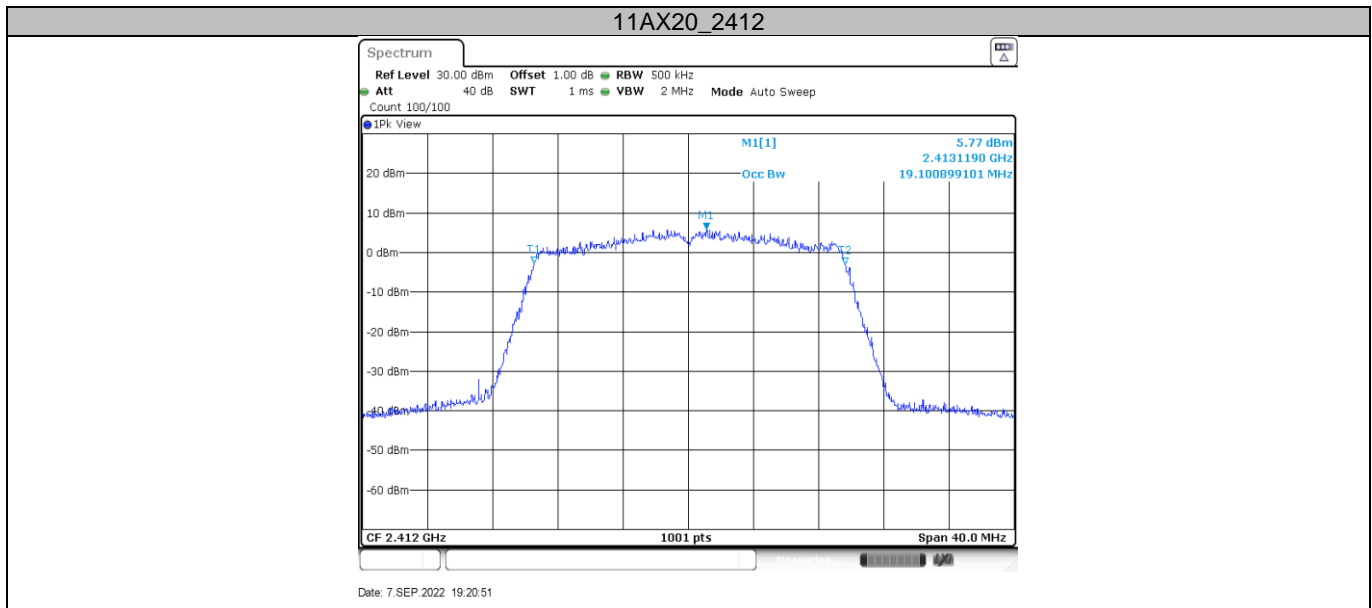


Date: 30 JUL 2022 12:47:57

11N20SISO_Ant1_2462



Date: 30 JUL 2022 12:54:53



9.4 Power spectral density

Test Method

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

1. 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.
2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
3. Repeat above procedures until other frequencies measured were completed.

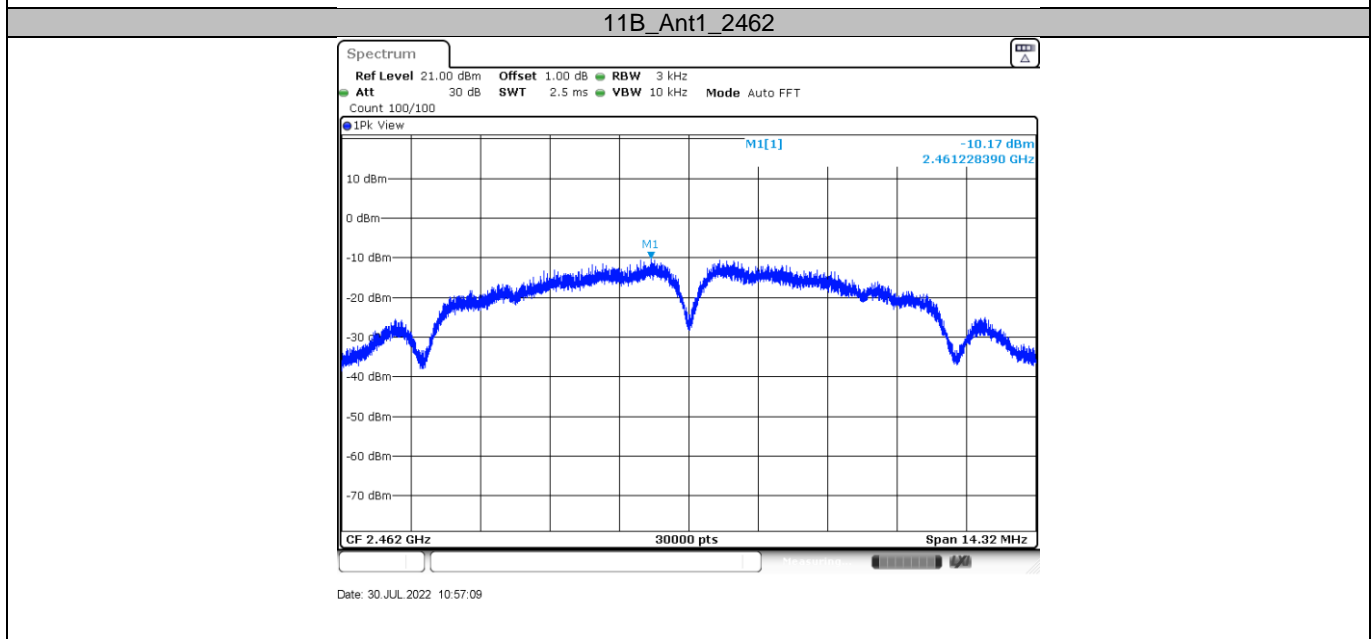
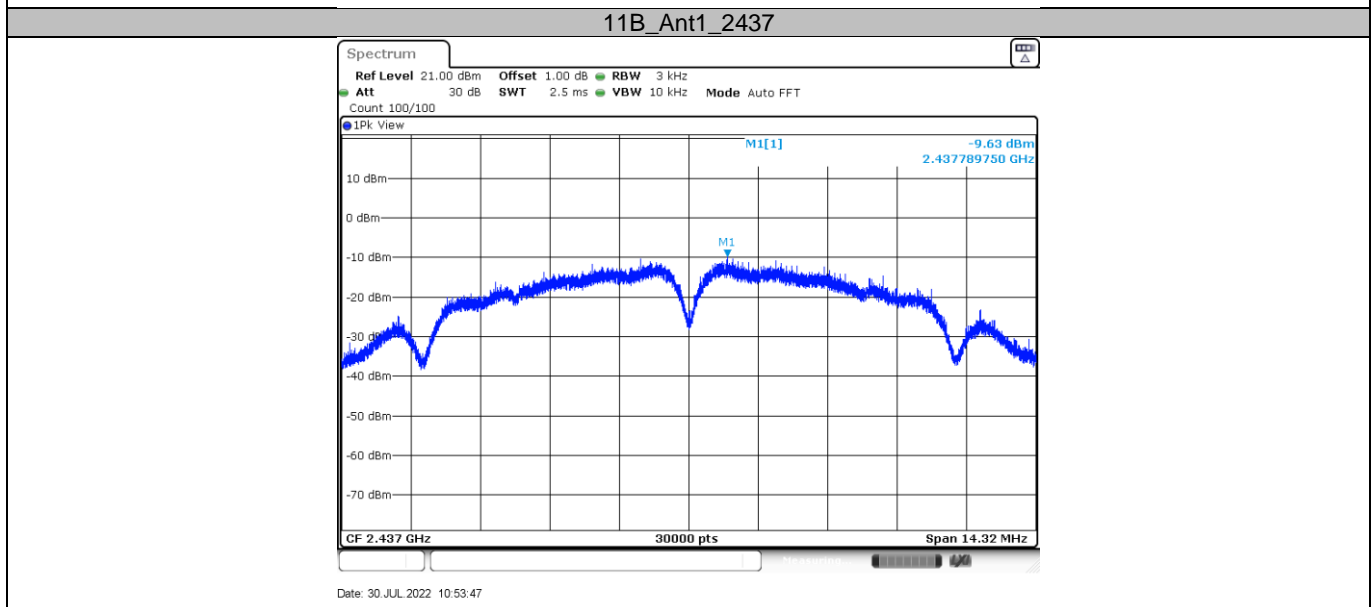
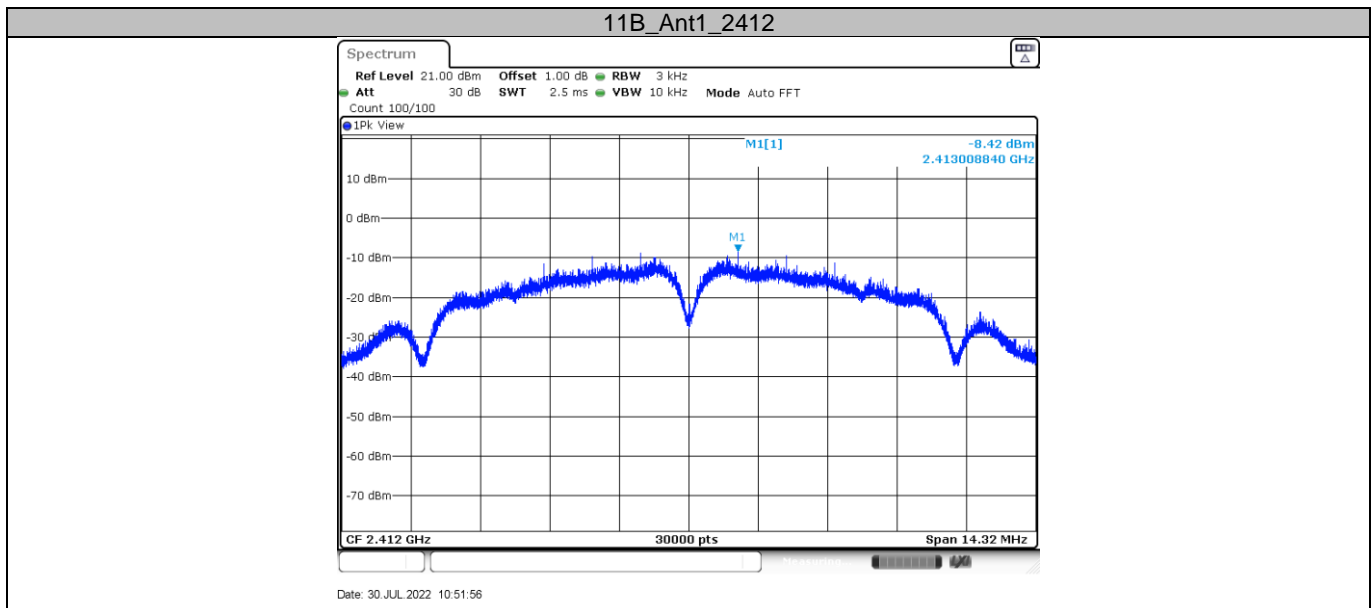
Limit

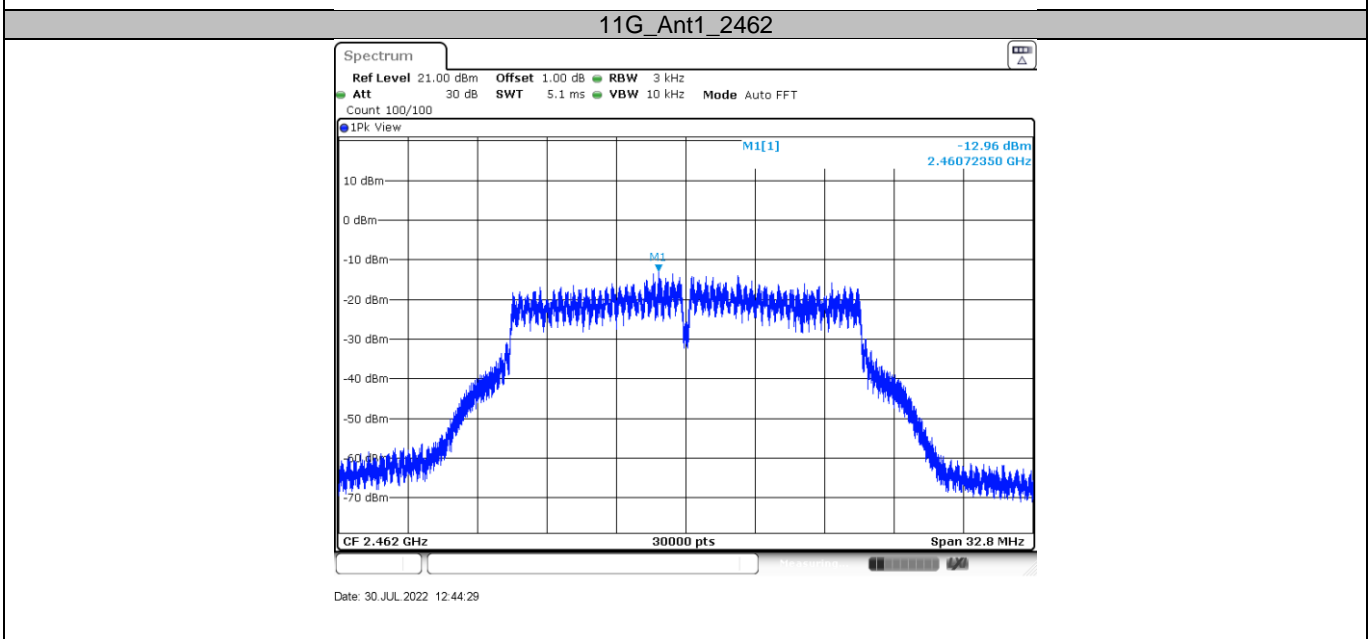
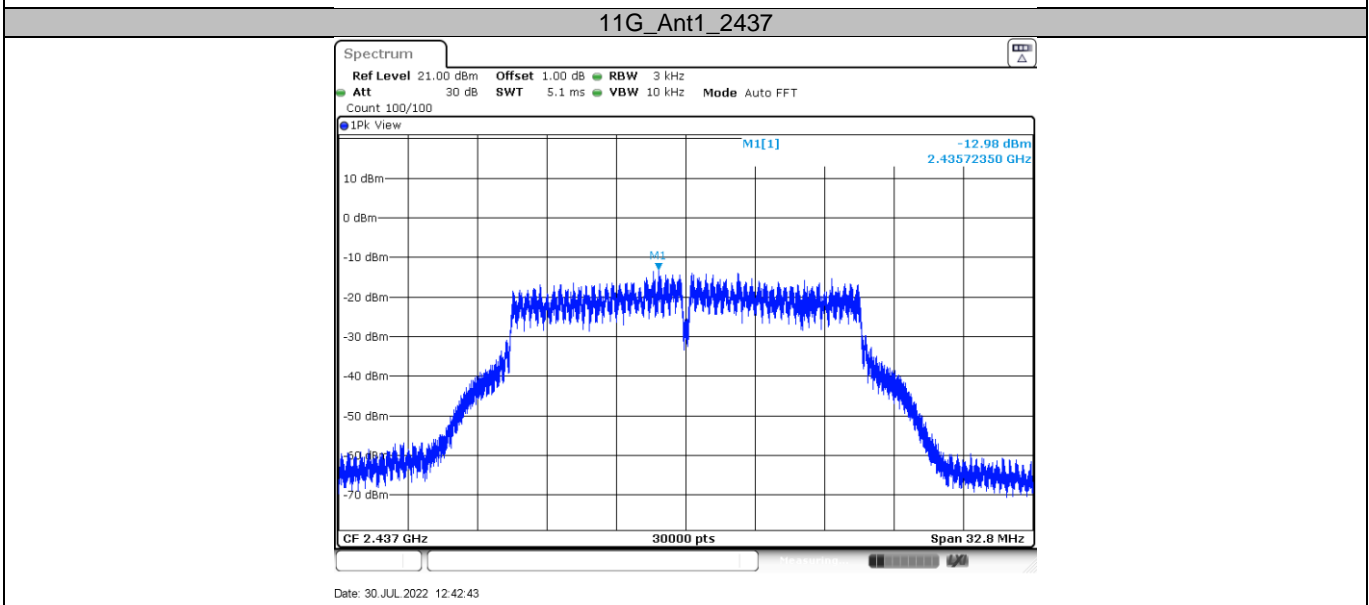
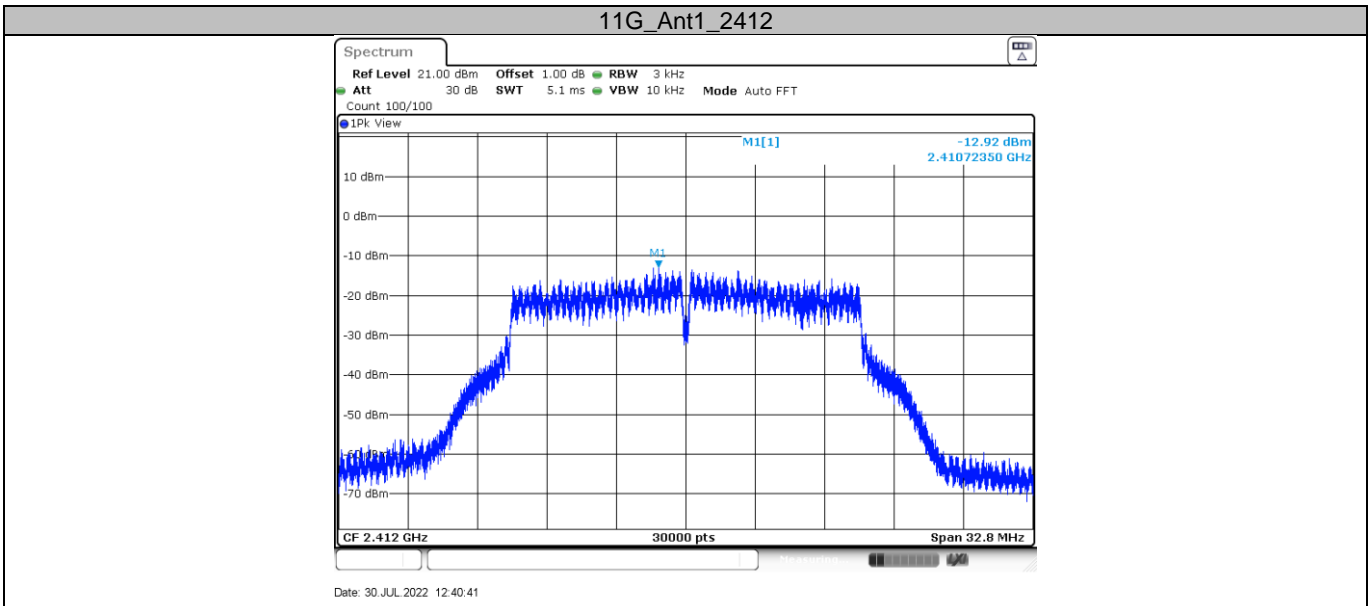
Limit [dBm/3kHz]

≤8

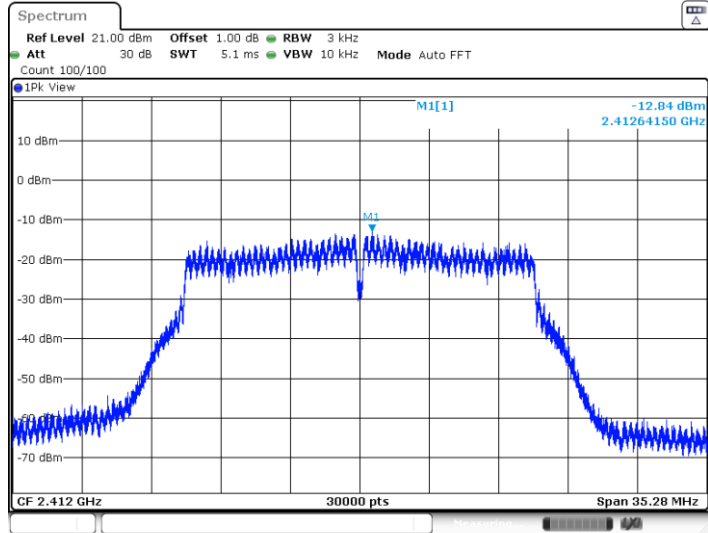
TestMode	Antenna	Channel(MHz)	Result(dBm/3kHz)	Limit(dBm/3kHz)	Verdict
11B	Ant1	2412	-8.42	≤8	PASS
	Ant2	2412	-8.13	≤8	PASS
	Ant1	2437	-9.63	≤8	PASS
	Ant2	2437	-9.51	≤8	PASS
	Ant1	2462	-10.17	≤8	PASS
	Ant2	2462	-8.71	≤8	PASS
11G	Ant1	2412	-12.92	≤8	PASS
	Ant2	2412	-11.18	≤8	PASS
	Ant1	2437	-12.98	≤8	PASS
	Ant2	2437	-11.45	≤8	PASS
	Ant1	2462	-12.96	≤8	PASS
	Ant2	2462	-11.77	≤8	PASS

TestMode	Antenna	Channel(MHz)	Result(dBm/3kHz)	Limit(dBm/3kHz)	Verdict
11N20MIMO	Ant1	2412	-12.84	≤8	PASS
	Ant2	2412	-11.02	≤8	PASS
	total	2412	-8.83	≤8	PASS
	Ant1	2437	-13.49	≤8	PASS
	Ant2	2437	-11.35	≤8	PASS
	total	2437	-9.28	≤8	PASS
	Ant1	2462	-13.53	≤8	PASS
	Ant2	2462	-12.52	≤8	PASS
	total	2462	-9.99	≤8	PASS
11AX20MIMO	Ant1	2412	-16.03	≤8	PASS
	Ant2	2412	-14.13	≤8	PASS
	total	2412	-11.97	≤8	PASS
	Ant1	2437	-16.61	≤8	PASS
	Ant2	2437	-14.47	≤8	PASS
	total	2437	-12.40	≤8	PASS
	Ant1	2462	-17.16	≤8	PASS
	Ant2	2462	-14.73	≤8	PASS
	total	2462	-12.77	≤8	PASS



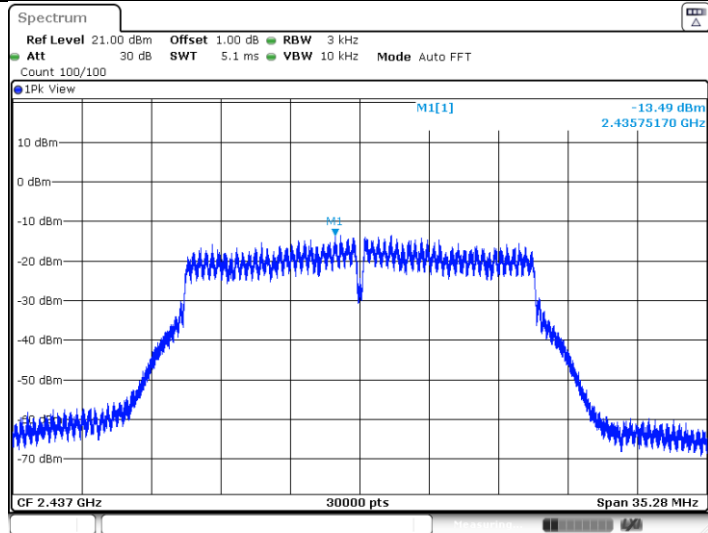


11N20SISO_Ant1_2412



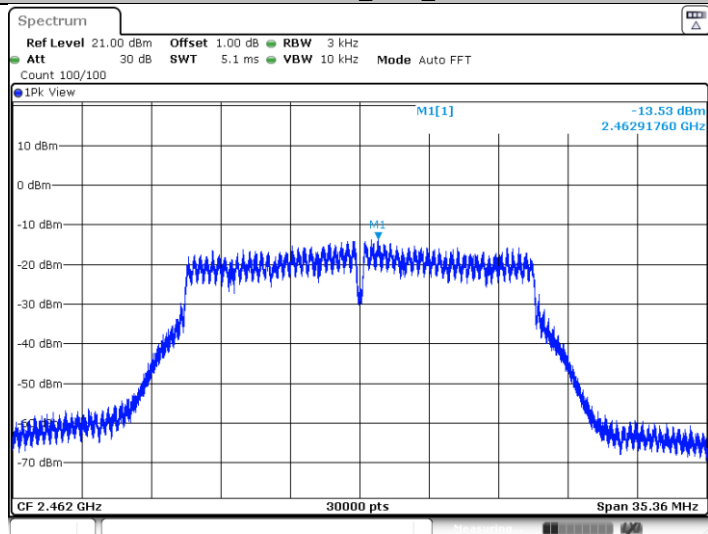
Date: 30 JUL 2022 12:46:18

11N20SISO_Ant1_2437

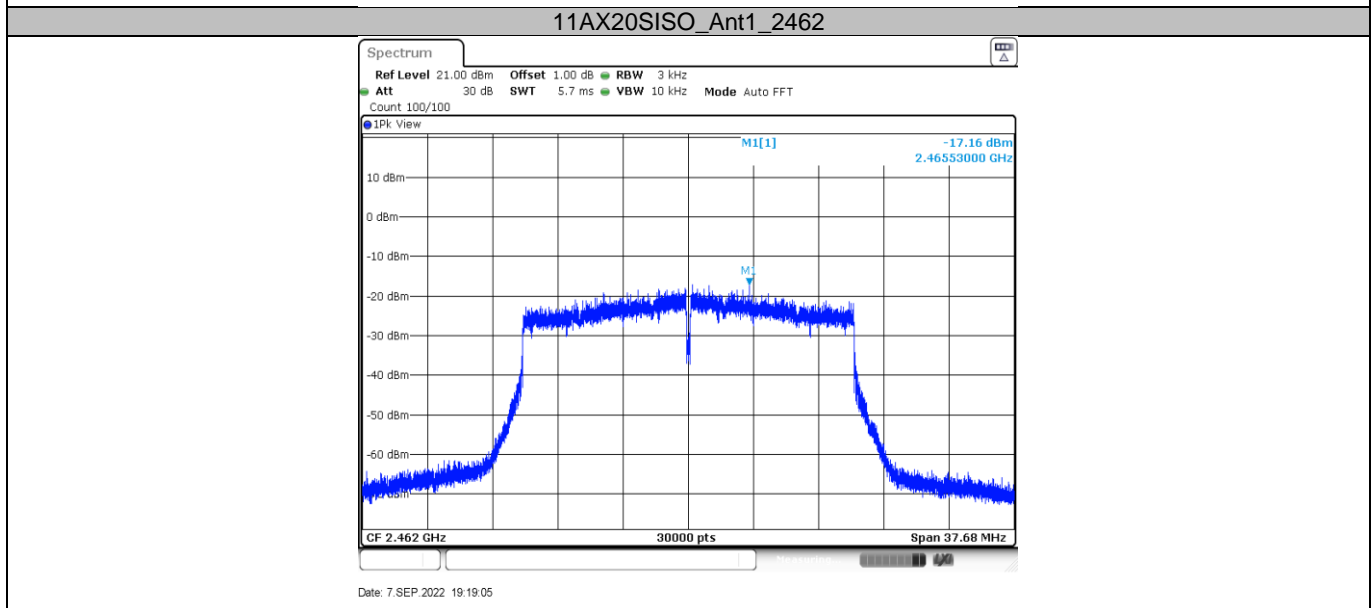
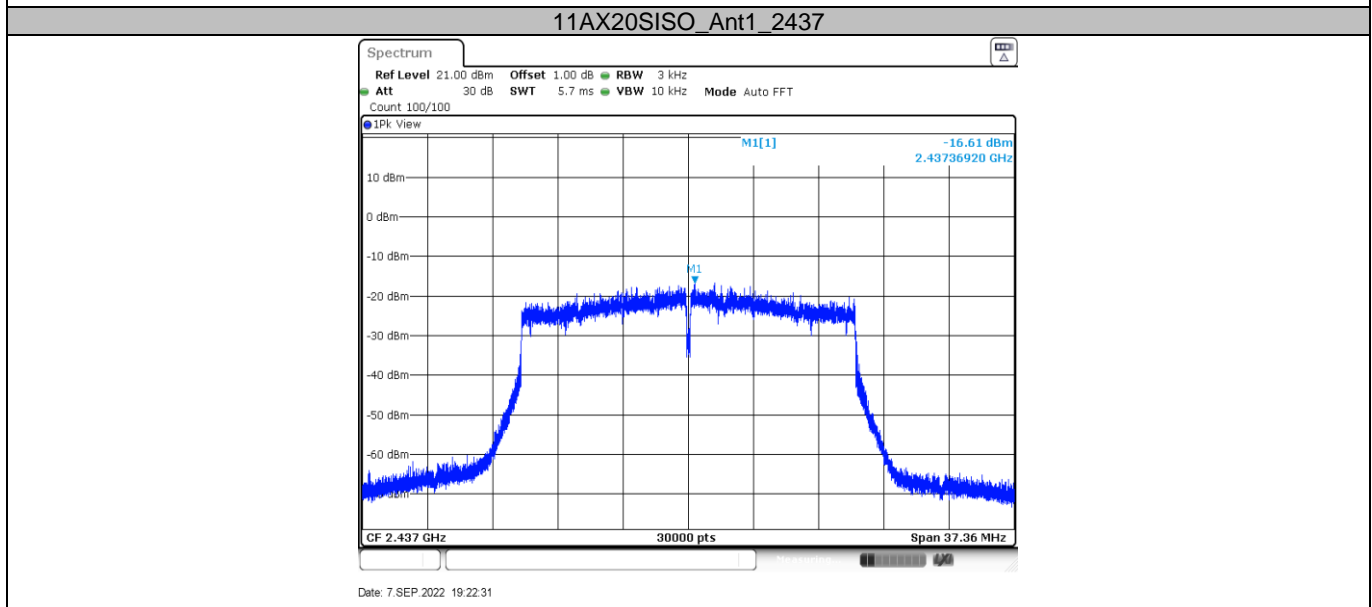
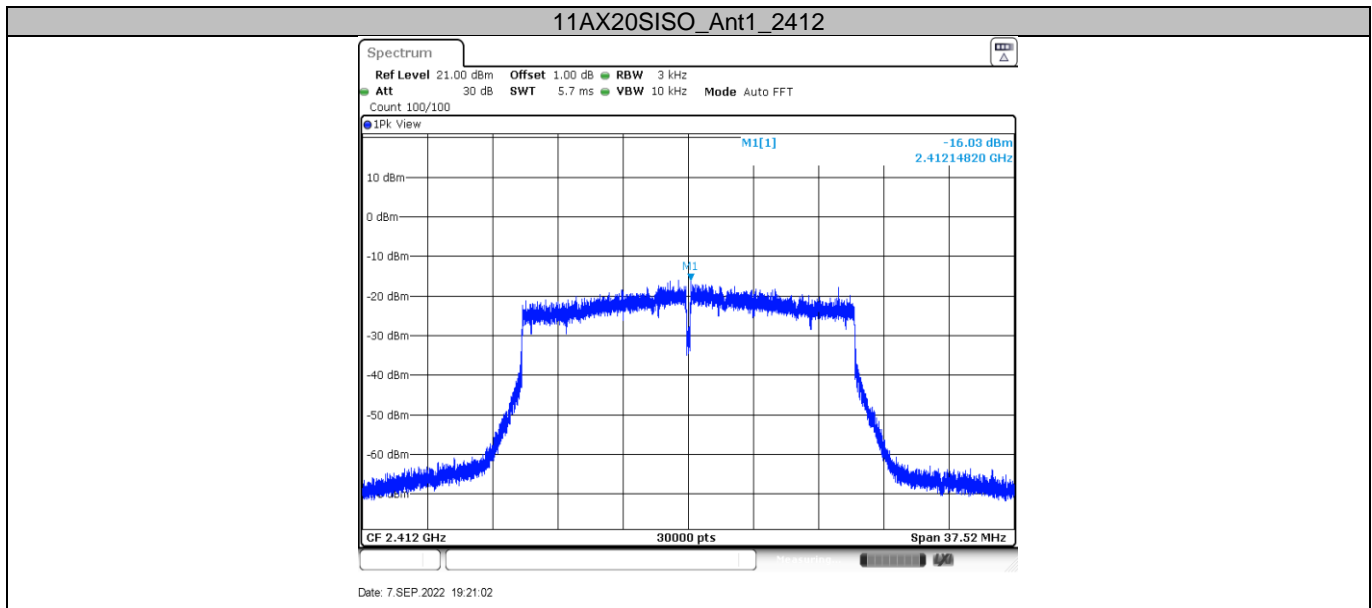


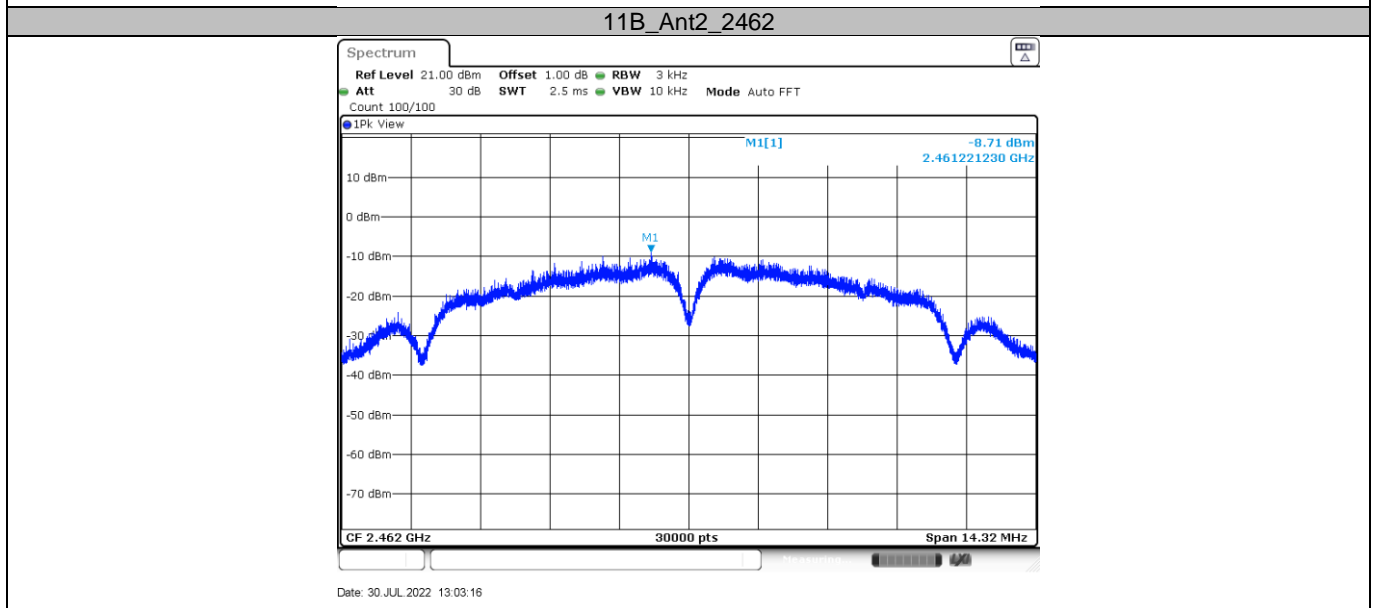
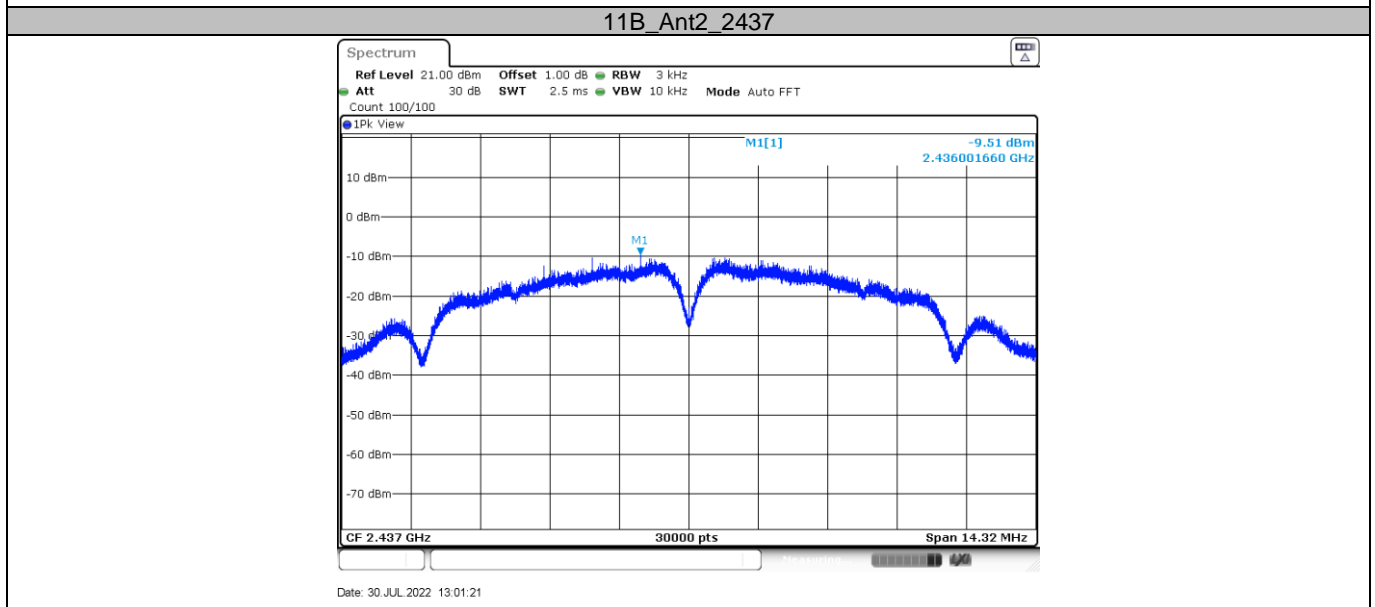
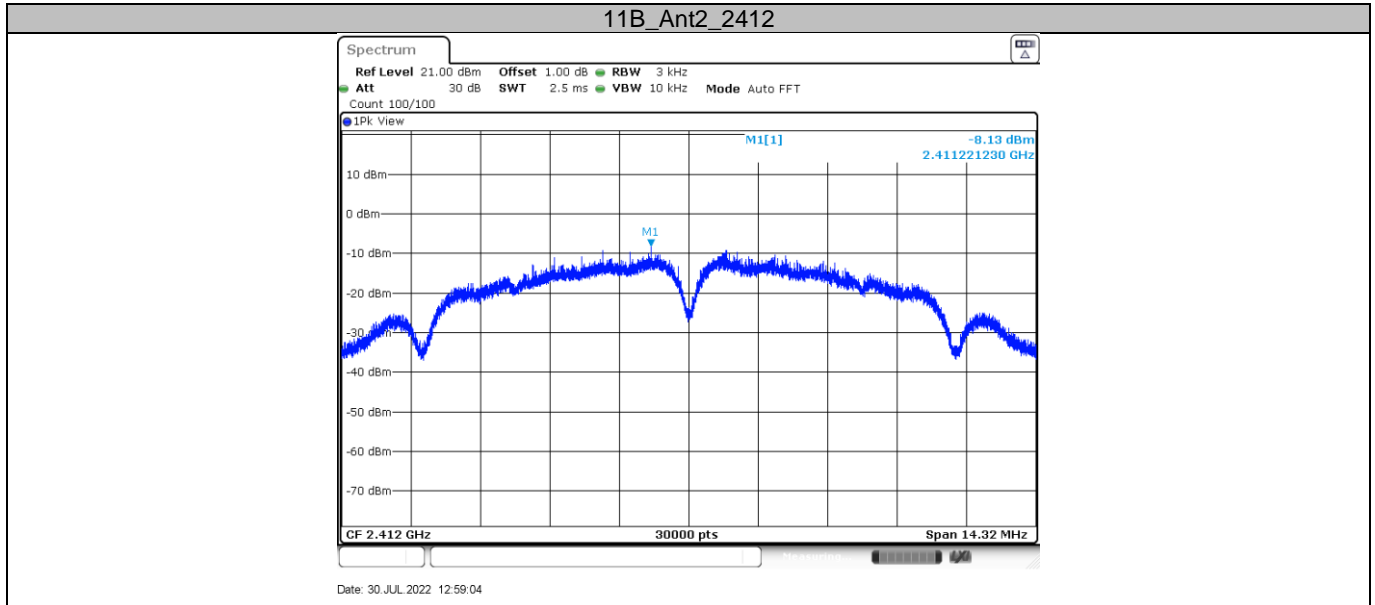
Date: 30 JUL 2022 12:48:08

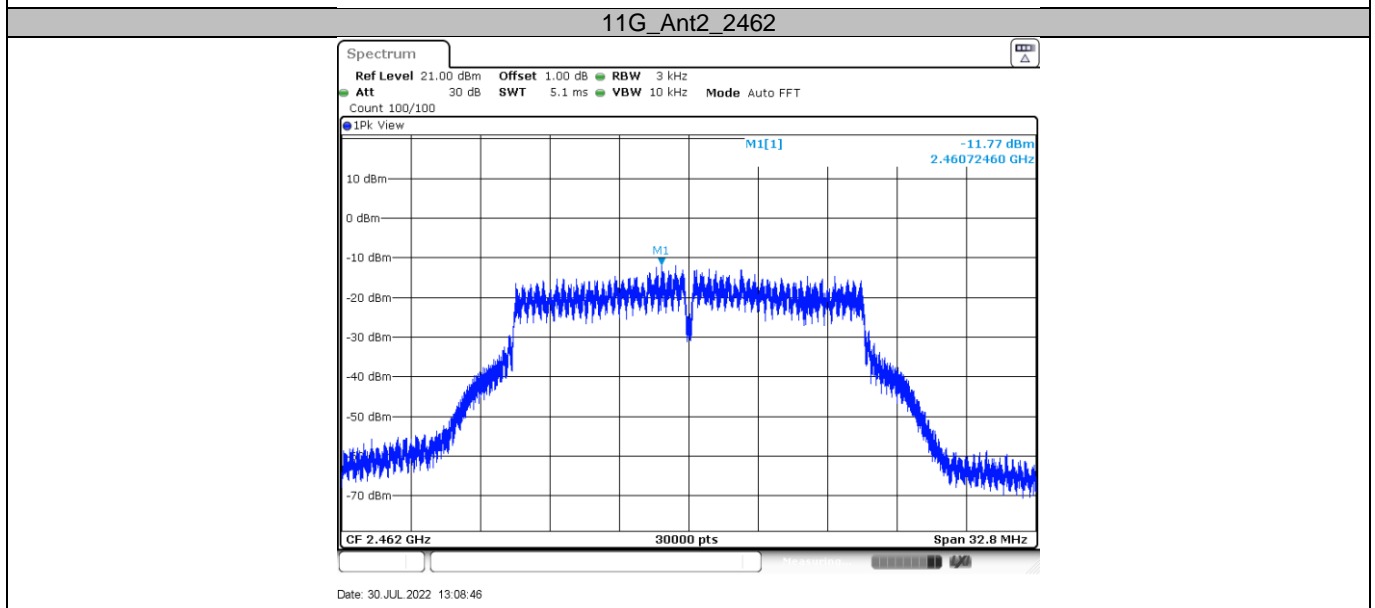
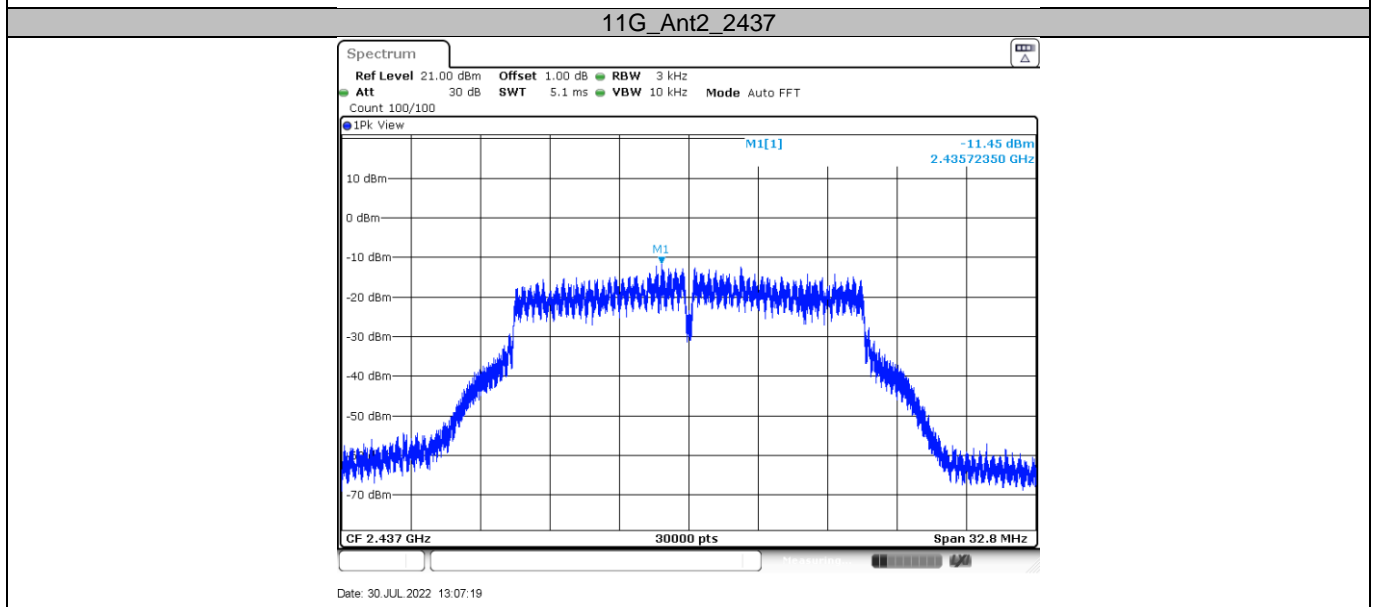
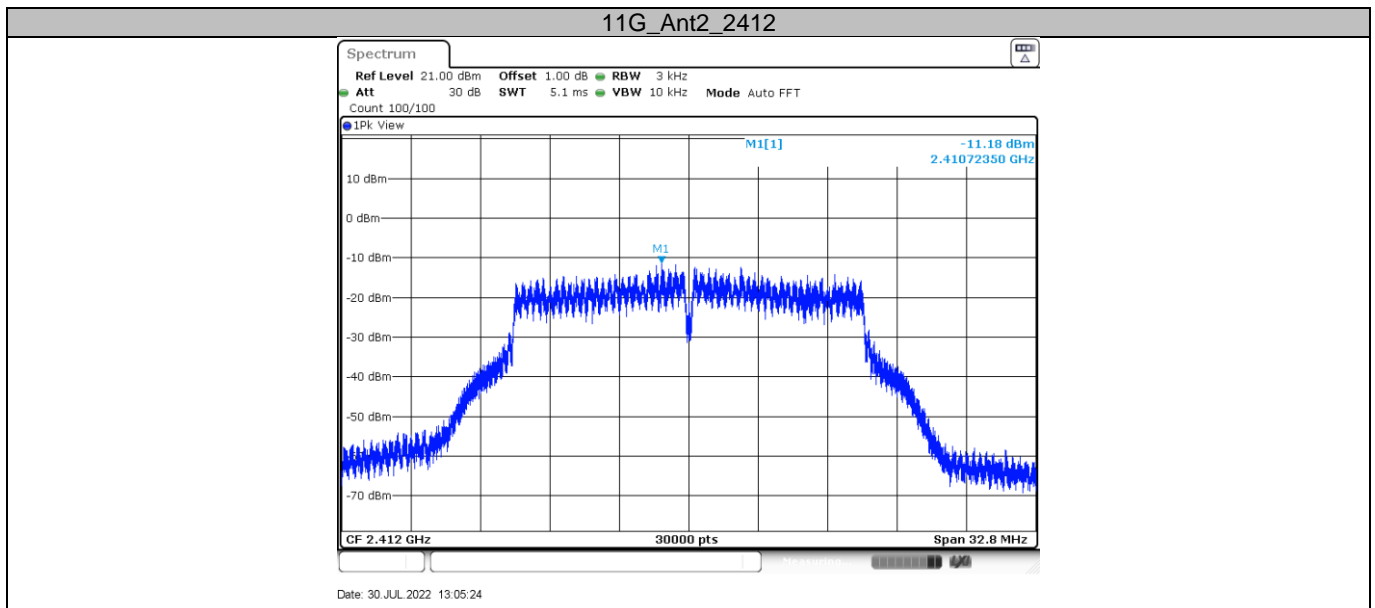
11N20SISO_Ant1_2462

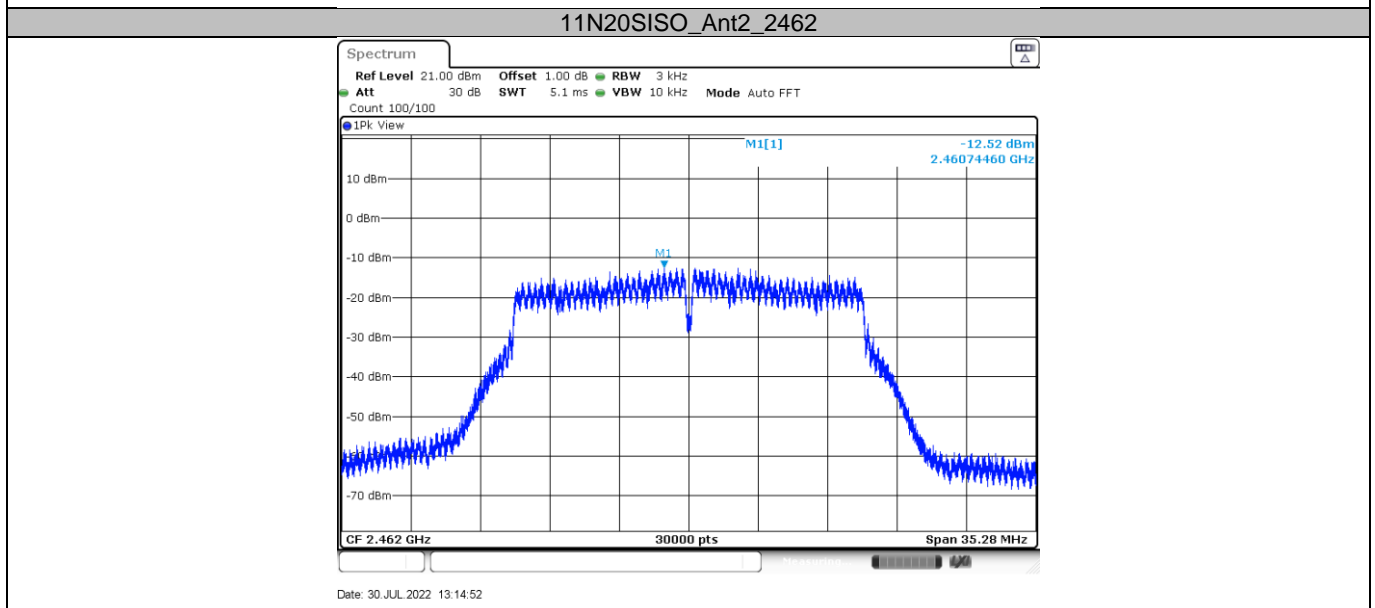
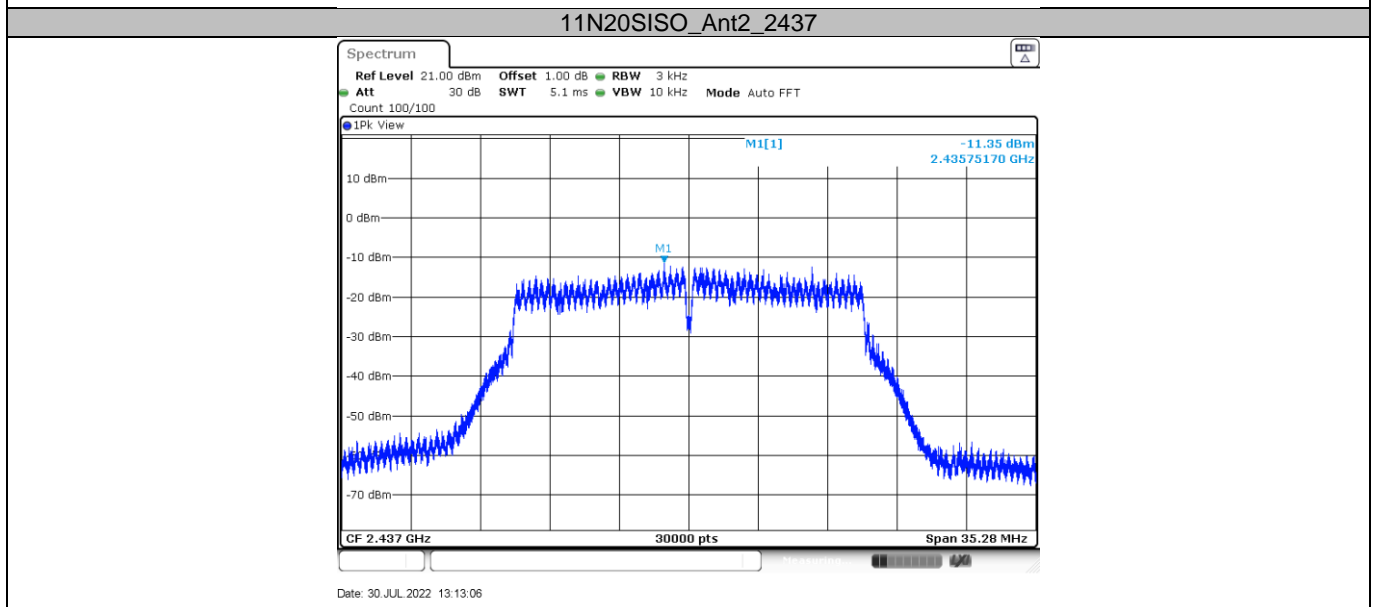
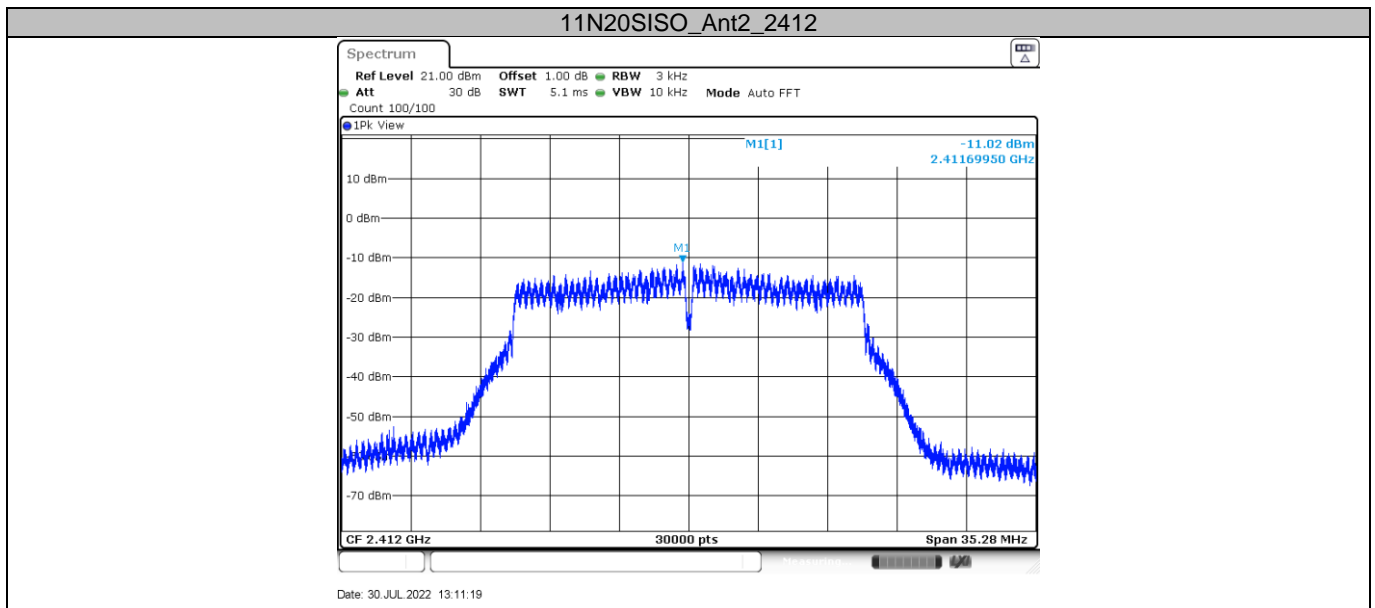


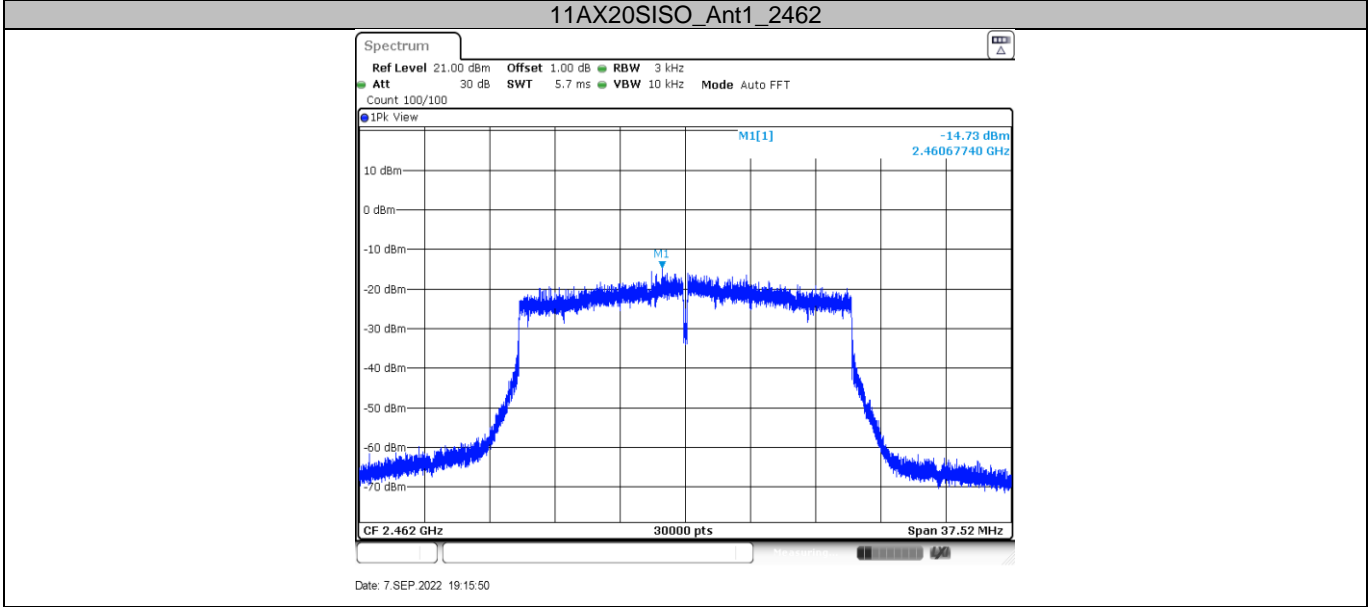
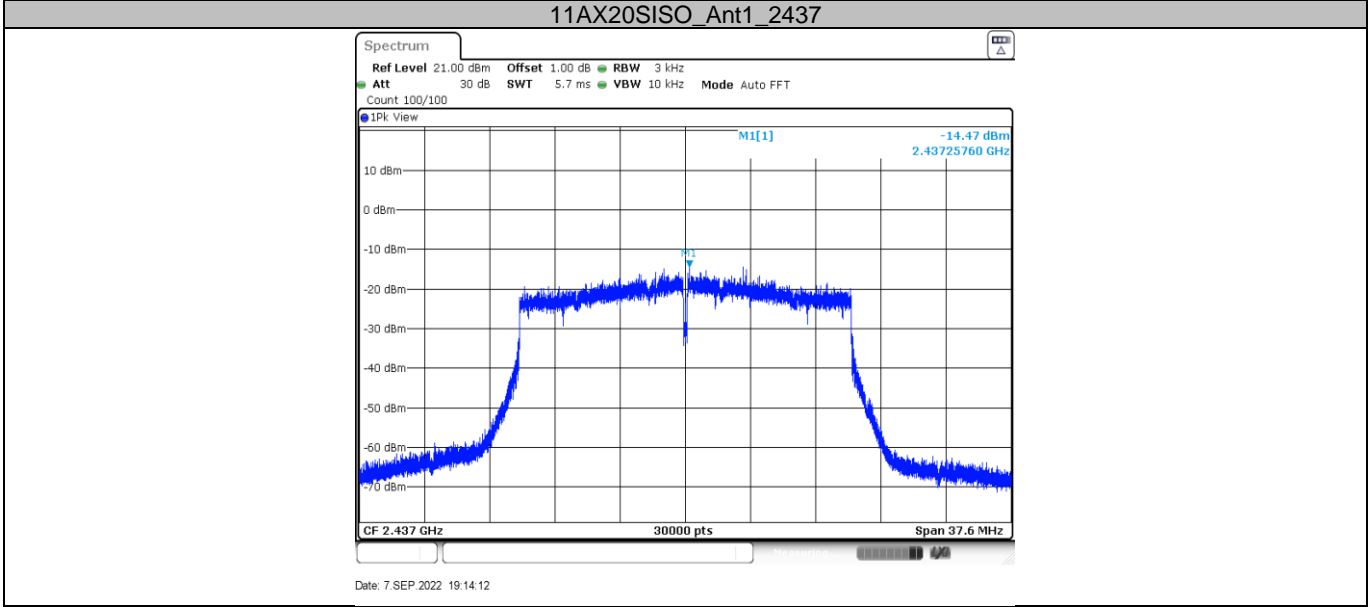
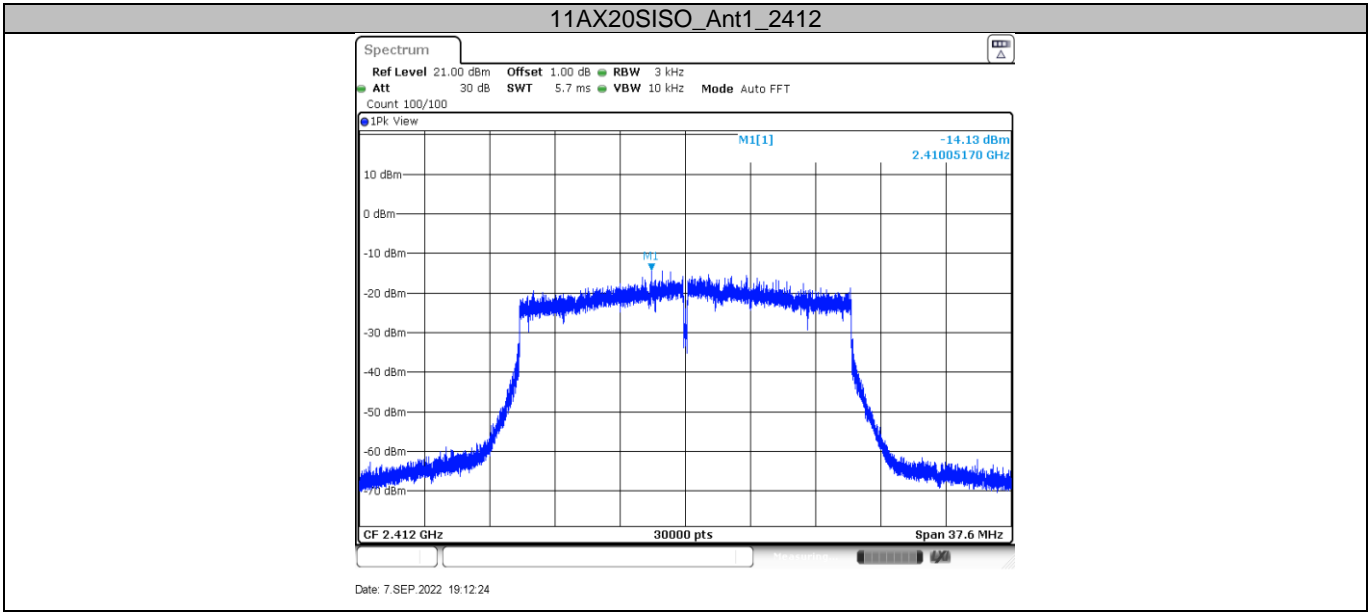
Date: 30 JUL 2022 12:55:05











9.5 Spurious RF conducted emissions

Test Method

1. 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 ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
3. The level displayed must comply with the limit specified in this Section. Submit these plots.
4. Repeat above procedures until all frequencies measured were complete.

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

Spurious RF conducted emissions

TestMode	Antenna	Channel(MHz)	FreqRange(MHz)	RefLevel(dBm)	Result(dBm)	Limit	Verdict
11B	Ant1	2412	Reference	3.67	3.67	---	PASS
			30~1000	30~1000	-68.32	<=-16.33	PASS
			1000~26500	1000~26500	-43.2	<=-16.33	PASS
		2437	Reference	3.22	3.22	---	PASS
			30~1000	30~1000	-67.58	<=-16.78	PASS
			1000~26500	1000~26500	-46.04	<=-16.78	PASS
		2462	Reference	3.32	3.32	---	PASS
			30~1000	30~1000	-67.74	<=-16.68	PASS
			1000~26500	1000~26500	-47.58	<=-16.68	PASS
11G	Ant1	2412	Reference	-1.66	-1.66	---	PASS
			30~1000	30~1000	-66.98	<=-21.66	PASS
			1000~26500	1000~26500	-42.48	<=-21.66	PASS
		2437	Reference	-1.40	-1.40	---	PASS
			30~1000	30~1000	-68.16	<=-21.4	PASS
			1000~26500	1000~26500	-52.34	<=-21.4	PASS
		2462	Reference	-1.00	-1.00	---	PASS
			30~1000	30~1000	-67.76	<=-21	PASS
			1000~26500	1000~26500	-51.94	<=-21	PASS
11N20SISO	Ant1	2412	Reference	-1.24	-1.24	---	PASS
			30~1000	30~1000	-67.81	<=-21.24	PASS
			1000~26500	1000~26500	-40.03	<=-21.24	PASS
		2437	Reference	-1.25	-1.25	---	PASS
			30~1000	30~1000	-67.81	<=-21.25	PASS
			1000~26500	1000~26500	-51.77	<=-21.25	PASS
		2462	Reference	-6.75	-6.75	---	PASS
			30~1000	30~1000	-67.63	<=-26.75	PASS
			1000~26500	1000~26500	-52.22	<=-26.75	PASS
11AX20SISO	Ant1	2412	Reference	-3.70	-3.70	---	PASS
			30~1000	30~1000	-68.36	<=-23.7	PASS
			1000~26500	1000~26500	-45.43	<=-23.7	PASS
		2437	Reference	-4.34	-4.34	---	PASS
			30~1000	30~1000	-67.96	<=-24.34	PASS
			1000~26500	1000~26500	-52.09	<=-24.34	PASS
		2462	Reference	-4.92	-4.92	---	PASS
			30~1000	30~1000	-67.91	<=-24.92	PASS
			1000~26500	1000~26500	-51.87	<=-24.92	PASS



TestMode	Antenna	Channel(MHz)	FreqRange(MHz)	RefLevel(dBm)	Result(dBm)	Limit	Verdict
11B	Ant2	2412	Reference	3.94	3.94	---	PASS
			30~1000	30~1000	-67.72	<=-16.06	PASS
			1000~26500	1000~26500	-38.8	<=-16.06	PASS
		2437	Reference	3.44	3.44	---	PASS
			30~1000	30~1000	-68.35	<=-16.56	PASS
			1000~26500	1000~26500	-48.28	<=-16.56	PASS
		2462	Reference	3.34	3.34	---	PASS
			30~1000	30~1000	-67.67	<=-16.66	PASS
			1000~26500	1000~26500	-50.19	<=-16.66	PASS
11G	Ant2	2412	Reference	-0.05	-0.05	---	PASS
			30~1000	30~1000	-67.67	<=-20.05	PASS
			1000~26500	1000~26500	-40.28	<=-20.05	PASS
		2437	Reference	0.29	0.29	---	PASS
			30~1000	30~1000	-68.05	<=-19.71	PASS
			1000~26500	1000~26500	-52.71	<=-19.71	PASS
		2462	Reference	0.12	0.12	---	PASS
			30~1000	30~1000	-67.85	<=-19.88	PASS
			1000~26500	1000~26500	-52.14	<=-19.88	PASS
11N20SISO	Ant2	2412	Reference	0.35	0.35	---	PASS
			30~1000	30~1000	-67.97	<=-19.65	PASS
			1000~26500	1000~26500	-37.77	<=-19.65	PASS
		2437	Reference	-0.04	-0.04	---	PASS
			30~1000	30~1000	-67.97	<=-20.04	PASS
			1000~26500	1000~26500	-52.72	<=-20.04	PASS
		2462	Reference	-0.28	-0.28	---	PASS
			30~1000	30~1000	-68.52	<=-20.28	PASS
			1000~26500	1000~26500	-52.61	<=-20.28	PASS
11AX20SISO	Ant2	2412	Reference	-2.68	-2.68	---	PASS
			30~1000	30~1000	-67.85	<=-22.68	PASS
			1000~26500	1000~26500	-41.03	<=-22.68	PASS
		2437	Reference	-2.56	-2.56	---	PASS
			30~1000	30~1000	-67.99	<=-22.56	PASS
			1000~26500	1000~26500	-52.73	<=-22.56	PASS
		2462	Reference	-3.42	-3.42	---	PASS
			30~1000	30~1000	-68.52	<=-23.42	PASS
			1000~26500	1000~26500	-51.65	<=-23.42	PASS

