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TEST REPORT

Report No.: CQASZ20220400713E-01
Applicant: Shenzhen Inkbird Technology Co., Ltd.
Address of Applicant: Room 1803, Guwei Building, NO.68 Guwei Road, Xianhu Community, Liantang, Luohu District, Shenzhen, China
Equipment Under Test (EUT):
Product: TEMPERATURE HUMIDITY SENSOR
Model No.: IBS-TH3-WIFI, IBS-TH5-WIFI, IBS-TH3-PLUS-WIFI, IBS-TH5-PLUS-WIFI
Test Model No.: IBS-TH3-WIFI
Brand Name: INKBIRD
FCC ID: 2AYZD-IBSTH3
Standards: 47 CFR Part 15, Subpart C
Date of Receipt: 2022-04-28
Date of Test: 2022-04-28 to 2022-05-11
Date of Issue: 2022-05-26
Test Result : **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: _____

(Lewis Zhou)

Reviewed By: _____

(K Liao)

Approved By: _____

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220400713E-01	Rev.01	Initial report	2022-05-26

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	N/A
Conducted Peak & Average Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Inkbird Technology Co., Ltd.
Address of Applicant:	Room 1803, Guowei Building, NO.68 Guowei Road, Xianhu Community, Liantang, Luohu District, Shenzhen, China
Manufacturer:	Shenzhen Inkbird Technology Co., Ltd.
Address of Manufacturer:	Room 1803, Guowei Building, NO.68 Guowei Road, Xianhu Community, Liantang, Luohu District, Shenzhen, China
Factory:	INKBIRD TECH.C.L.
Address of Factory:	6th Floor, Building 713, Pengji Liantang Industrial Area, NO.2 Pengxing Road, Luohu District, Shenzhen, China

4.2 General Description of EUT

Product Name:	TEMPERATURE HUMIDITY SENSOR
Model No.:	IBS-TH3-WIFI, IBS-TH5-WIFI, IBS-TH3-PLUS-WIFI, IBS-TH5-PLUS-WIFI
Test Model No.:	IBS-TH3-WIFI
Trade Mark:	INKBIRD
Software Version:	V1.0
Hardware Version:	V2.0
Power Supply:	AAA Battery*3 4.5V
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz; 802.11n(HT40): 2422MHz~2452MHz

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	WifiTestTool(v1.5.2)

Antenna Type:	PCB antenna
Antenna Gain:	2.21dBi

Note:

Model No.:IBS-TH3-WIFI, IBS-TH5-WIFI, IBS-TH3-PLUS-WIFI, IBS-TH5-PLUS-WIFI

Only the model IBS-TH3-WIFI was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being capacity.

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency		
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

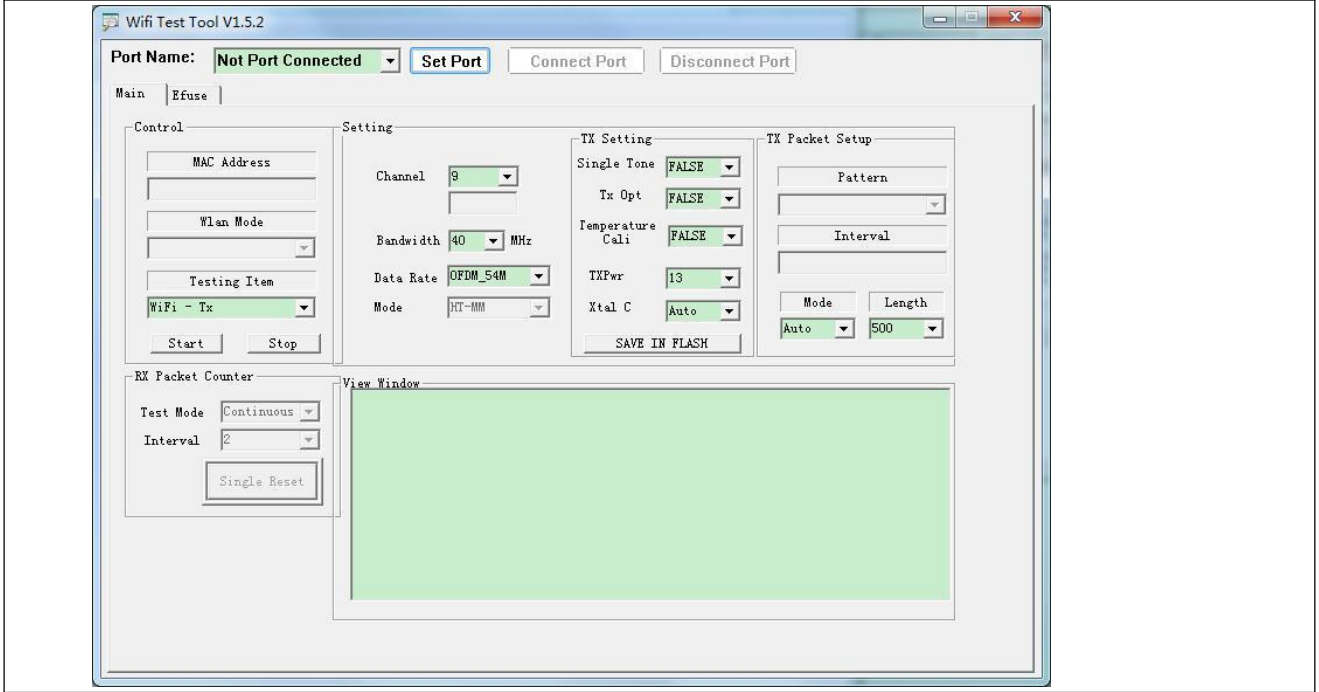
Note:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.4 Test Environment and Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

Run Software:

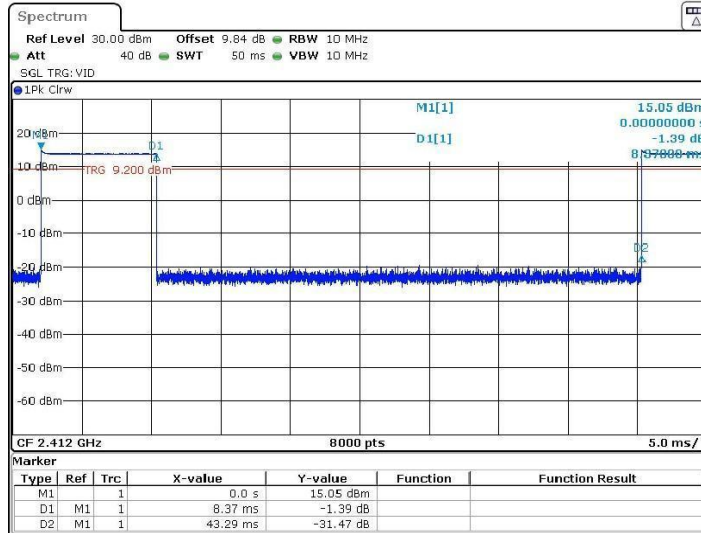


Operated Mode for Worst Duty Cycle:		
Test Mode	Duty Cycle(%)	Average correction factor(dB)
IEEE802.11b	19.33	7.14
IEEE802.11g	9.97	10.01
IEEE802.11n (HT20)	10.06	9.97
IEEE802.11n (HT40)	9.52	10.21

Remark:

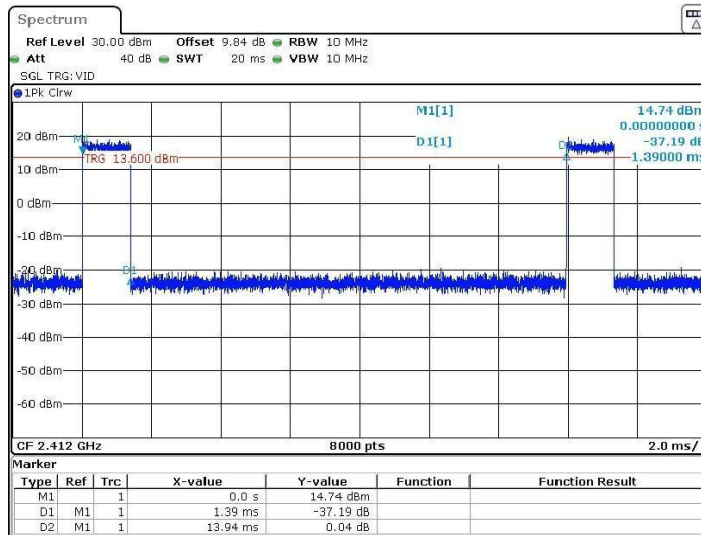
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

Test Graph_IEEE802.11b Duty Cycle:



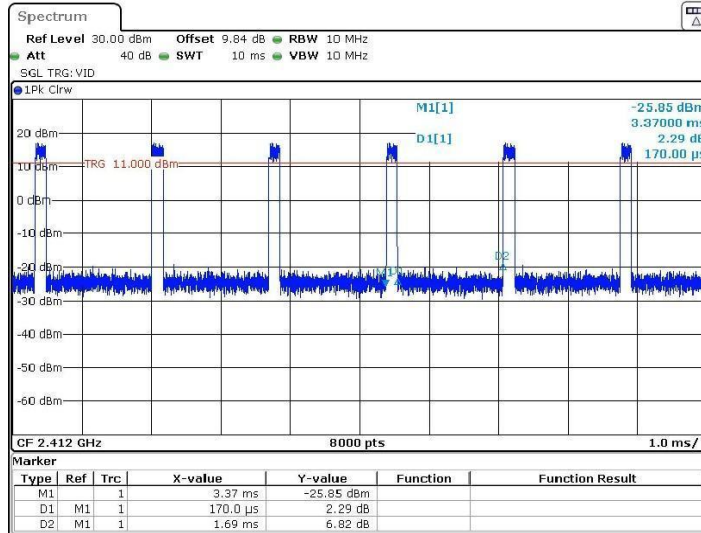
Date: 5.MAY.2022 08:59:13

Test Graph_IEEE802.11g Duty Cycle:



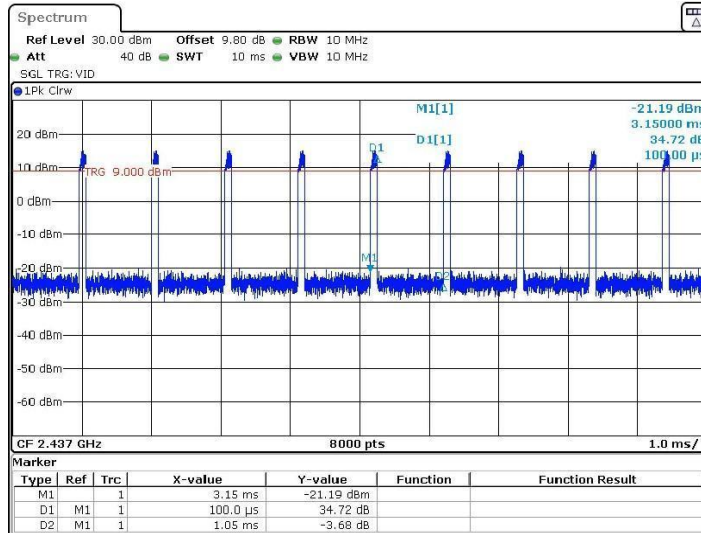
Date: 5.MAY.2022 09:08:50

Test Graph_ IEEE802.11 n (HT20) Duty Cycle:



Date: 5 MAY 2022 09:20:51

Test Graph_ IEEE802.11 n (HT40) Duty Cycle:



Date: 6 MAY 2022 02:37:29

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.8 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10^{-8}	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8°C	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.9 Deviation from Standards

None.

4.10 Abnormalities from Standard Conditions

None.

4.11 Other Information Requested by the Customer

None.

4.12 Equipment List

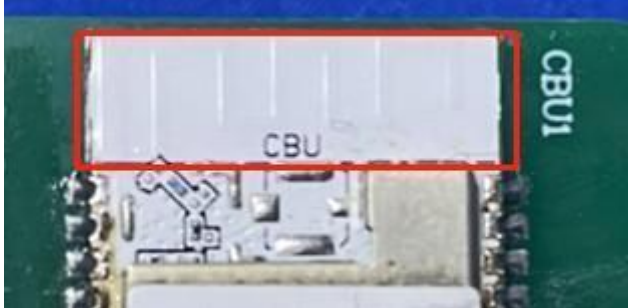
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2021/09/10	2022/09/09
Spectrum analyzer	R&S	FSU26	CQA-038	2021/09/10	2022/09/09
Spectrum analyzer	R&S	FSU40	CQA-075	2021/09/10	2022/09/09
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2021/09/10	2022/09/09
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2021/09/10	2022/09/09
Preamplifier	EMCI	EMC184055SE	CQA-089	2021/09/10	2022/09/09
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2021/09/10	2022/09/09
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2021/09/10	2022/09/09
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2021/09/10	2022/09/09
Antenna Connector	CQA	RFC-01	CQA-080	2021/09/10	2022/09/09
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2021/09/10	2022/09/09
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2021/09/10	2022/09/09
Power meter	R&S	NRVD	CQA-029	2021/09/10	2022/09/09
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2021/09/10	2022/09/09
EMI Test Receiver	R&S	ESR7	CQA-005	2021/09/10	2022/09/09
LISN	R&S	ENV216	CQA-003	2021/09/10	2022/09/09
Coaxial cable	CQA	N/A	CQA-C009	2021/09/10	2022/09/09
DC power	KEYSIGHT	E3631A	CQA-028	2021/09/10	2022/09/09

Test software:


	Manufacturer	Software brand
Radiated Emissions test software	Tonscend	JS1120-3
Conducted Emissions test software	Audix	e3
RF Conducted test software	Audix	e3

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
EUT Antenna:	
<p>The antenna is PCB antenna. The best case gain of the antenna is 2.21 dBi.</p>	

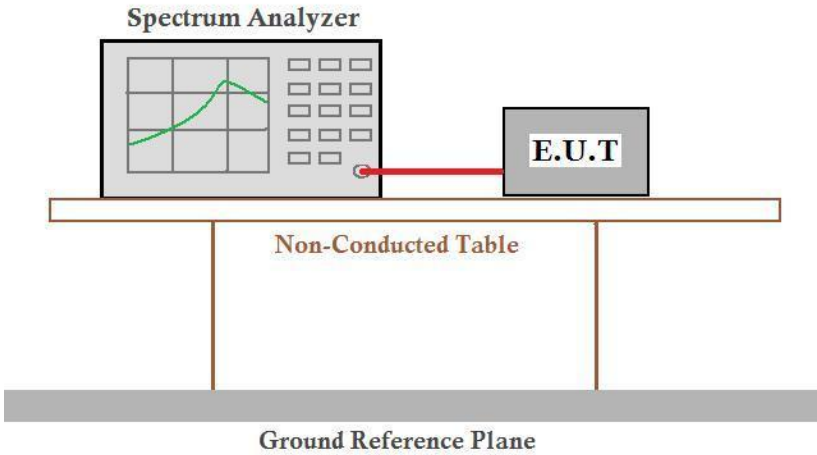
5.2 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <pre> graph LR EUT[EUT] --- PM[Power Meter] </pre>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	30dBm
Test Results:	Pass

Test Result

TestMode	Antenna	Channel	Peak Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	8.12	≤30	PASS
		2437	8.92	≤30	PASS
		2462	7.29	≤30	PASS
11G	Ant1	2412	3.09	≤30	PASS
		2437	3.68	≤30	PASS
		2462	2.59	≤30	PASS
11N20SISO	Ant1	2412	3.26	≤30	PASS
		2437	3.85	≤30	PASS
		2462	2.65	≤30	PASS
11N40SISO	Ant1	2422	2.63	≤30	PASS
		2437	2.32	≤30	PASS
		2452	1.37	≤30	PASS

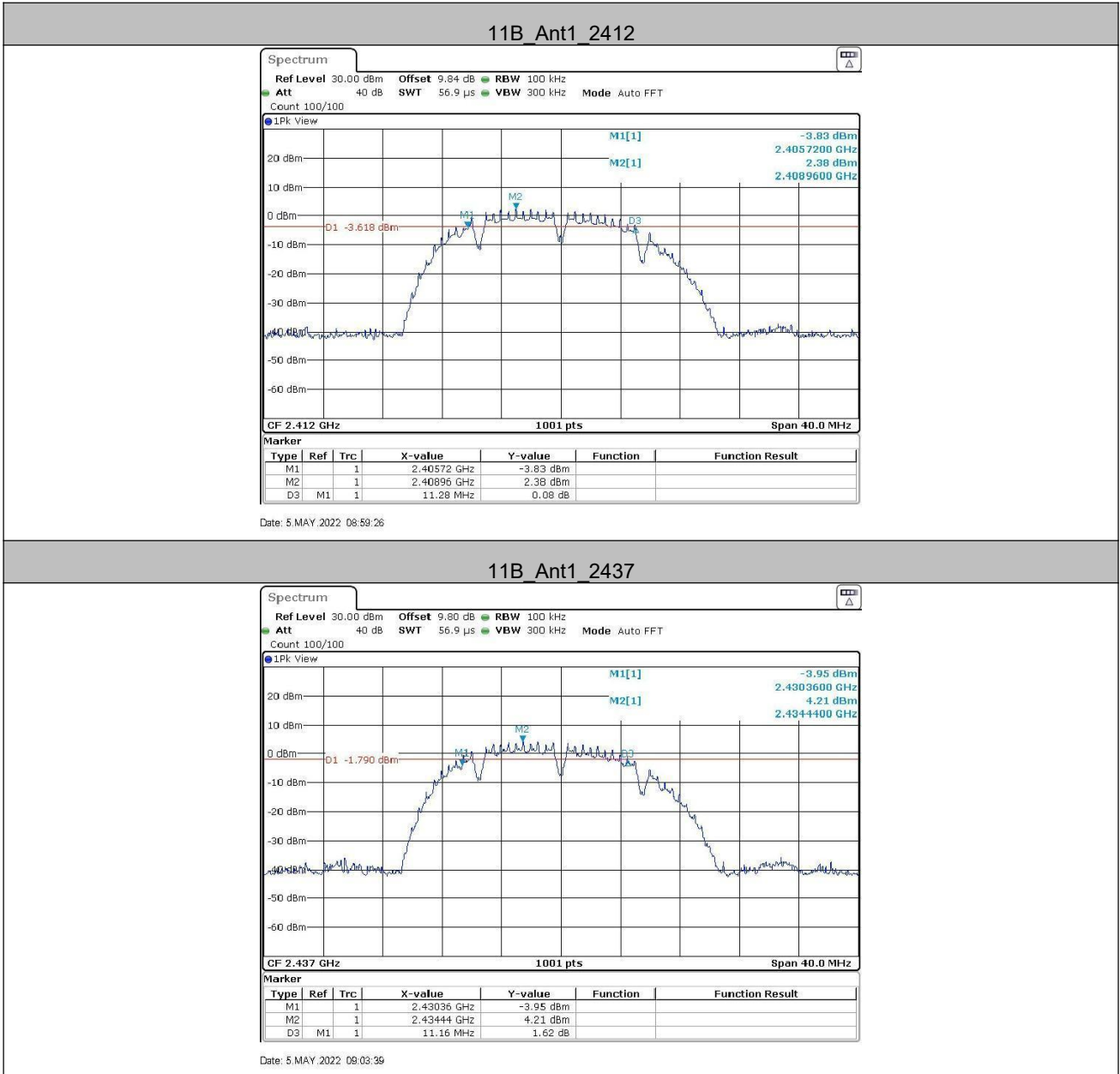
5.3 6dB Occupy Bandwidth

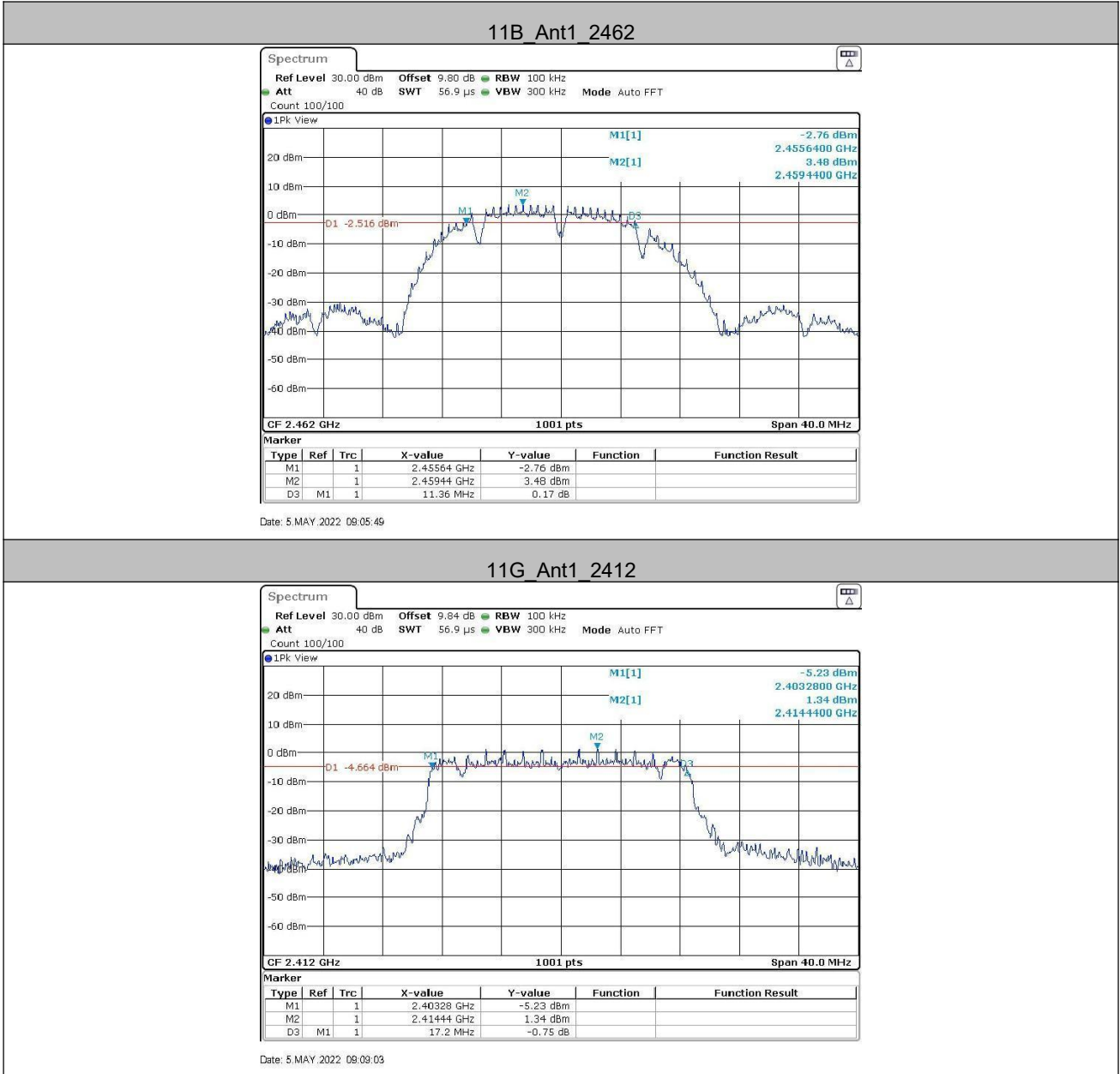
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.
Limit:	≥ 500 kHz
Test Results:	Pass

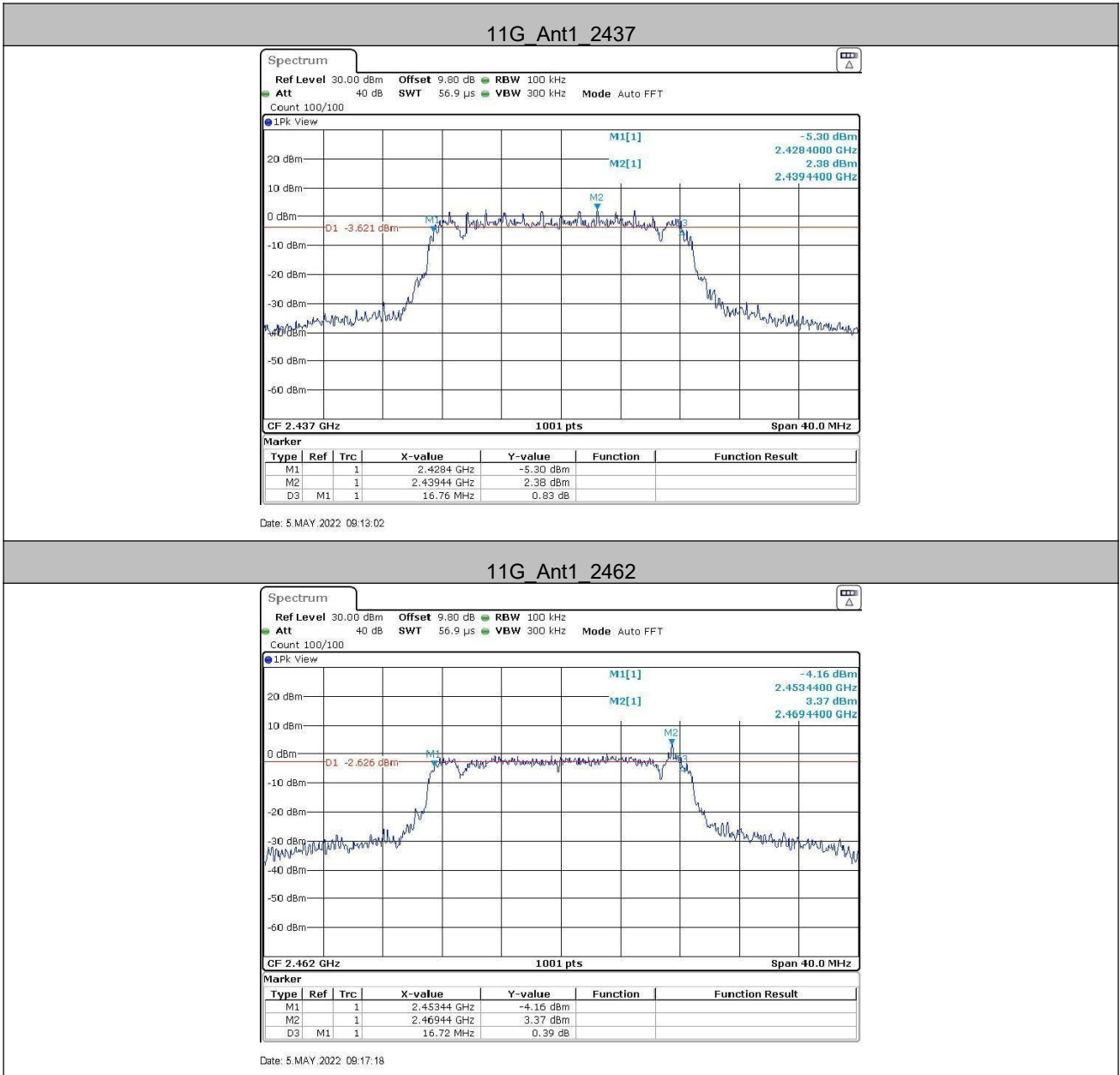
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.280	2405.720	2417.000	0.5	PASS
		2437	11.160	2430.360	2441.520	0.5	PASS
		2462	11.360	2455.640	2467.000	0.5	PASS
11G	Ant1	2412	17.200	2403.280	2420.480	0.5	PASS
		2437	16.760	2428.400	2445.160	0.5	PASS
		2462	16.720	2453.440	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.280	2404.000	2420.280	0.5	PASS
		2437	16.880	2428.400	2445.280	0.5	PASS
		2462	16.800	2453.440	2470.240	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.480	2439.760	0.5	PASS
		2437	35.280	2419.320	2454.600	0.5	PASS
		2452	35.520	2434.080	2469.600	0.5	PASS

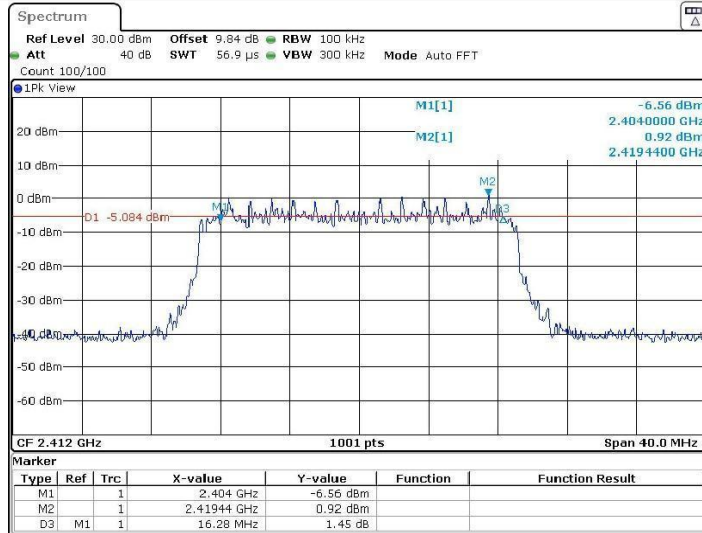
Test Graphs





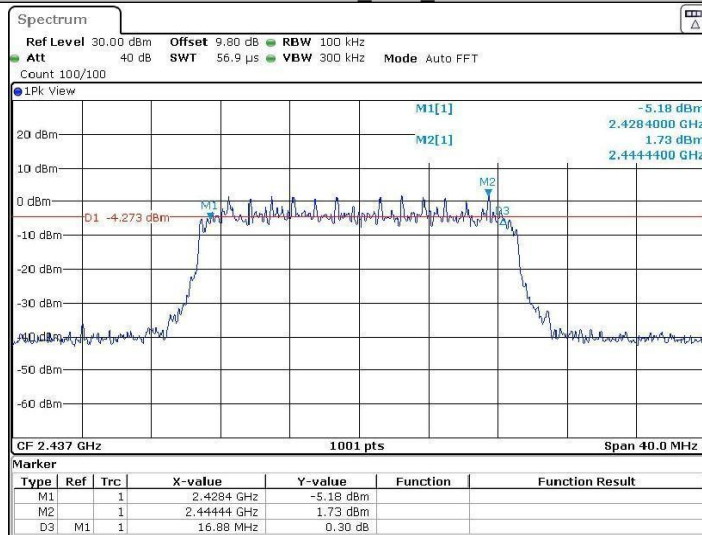


11N20SISO Ant1 2412

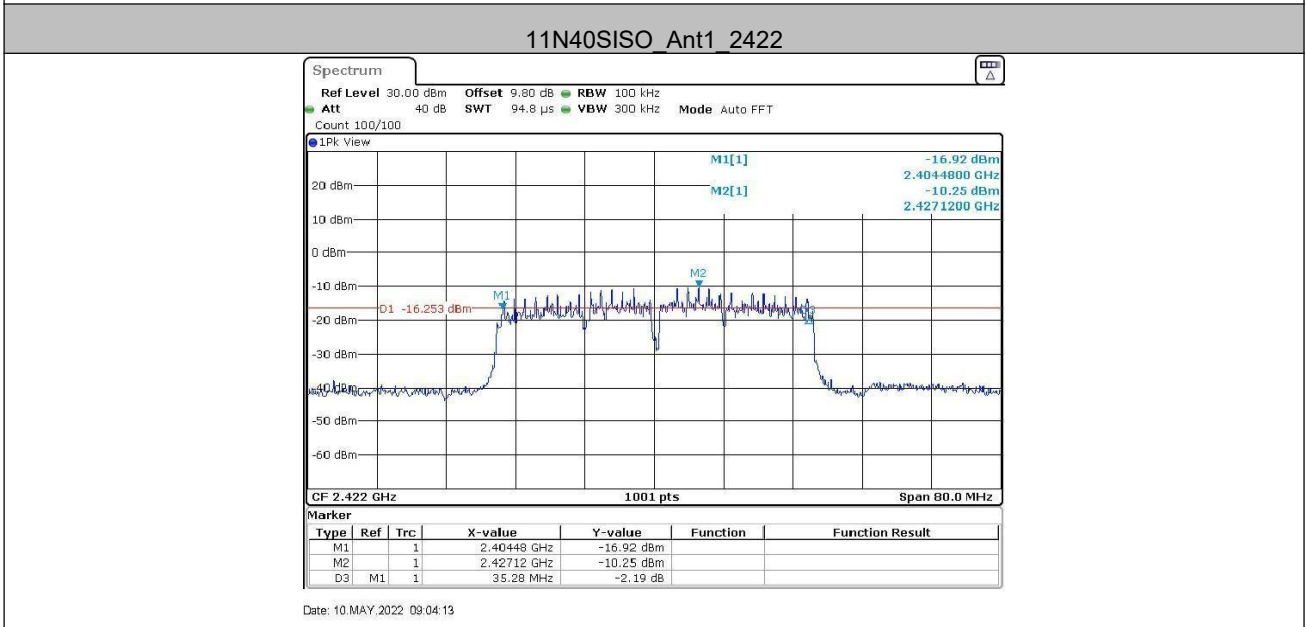


Date: 5.MAY.2022 09:21:04

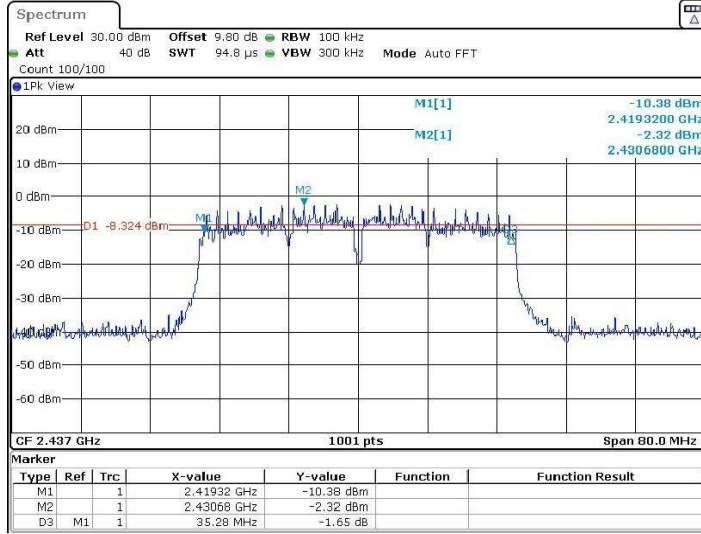
11N20SISO Ant1 2437



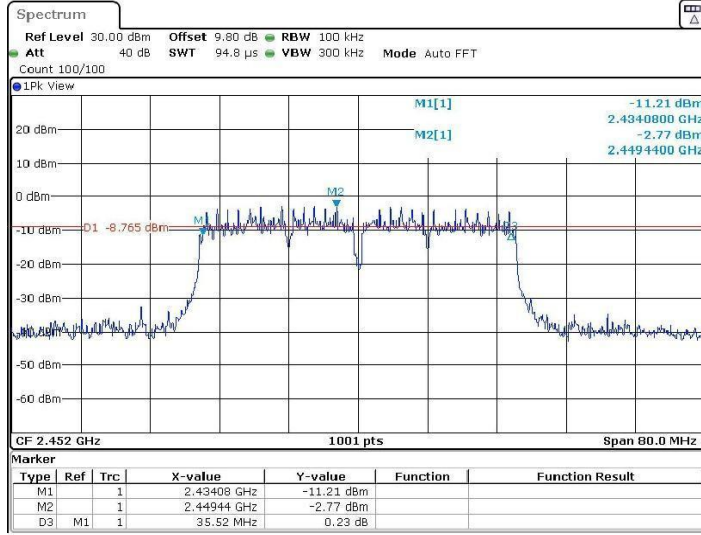
Date: 5.MAY.2022 09:39:12



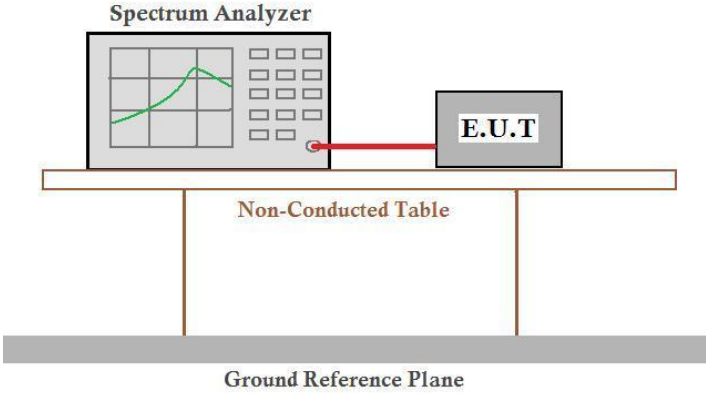
11N40SISO Ant1_2437



11N40SISO Ant1_2452



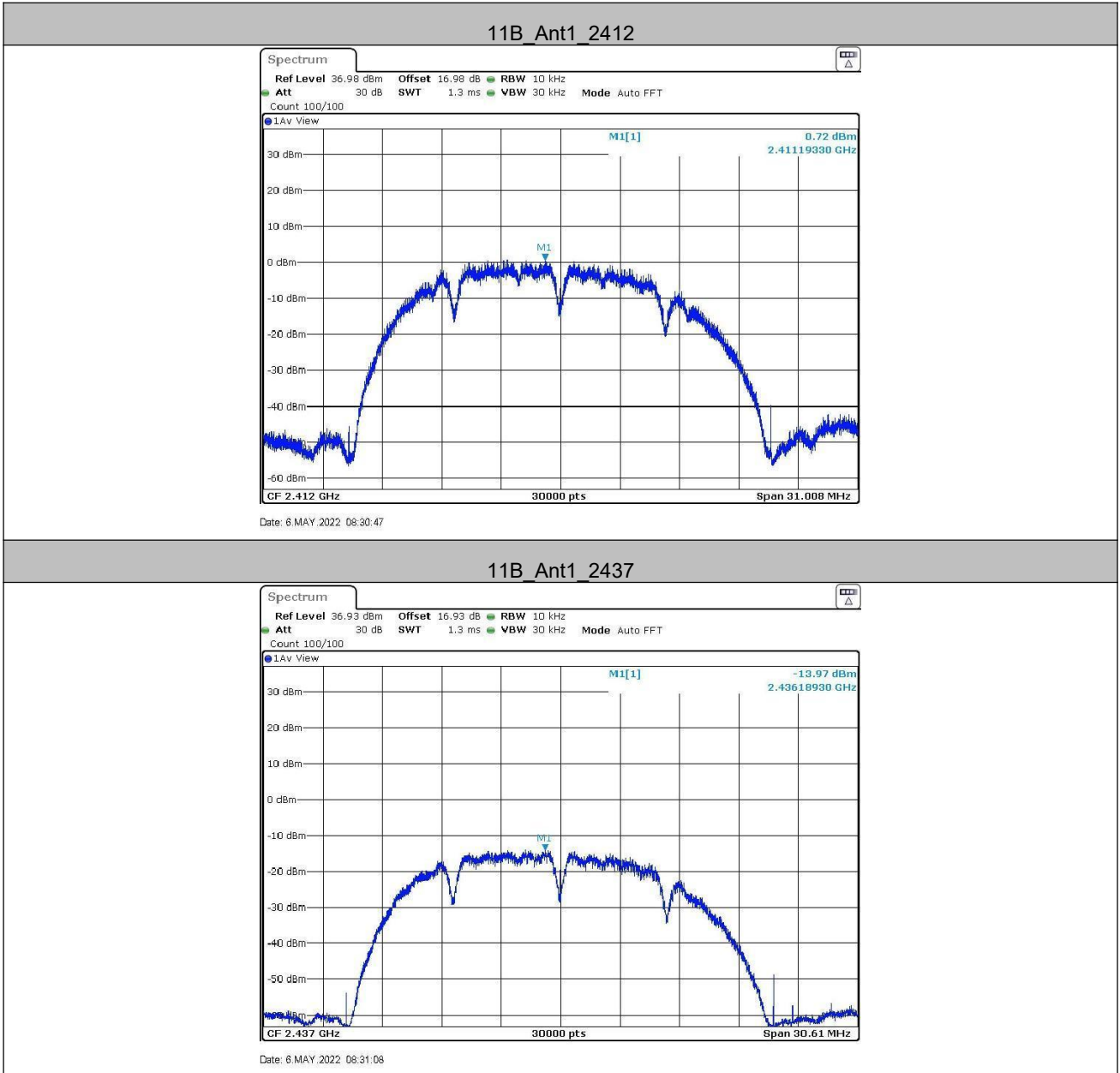
5.4 Power Spectral Density

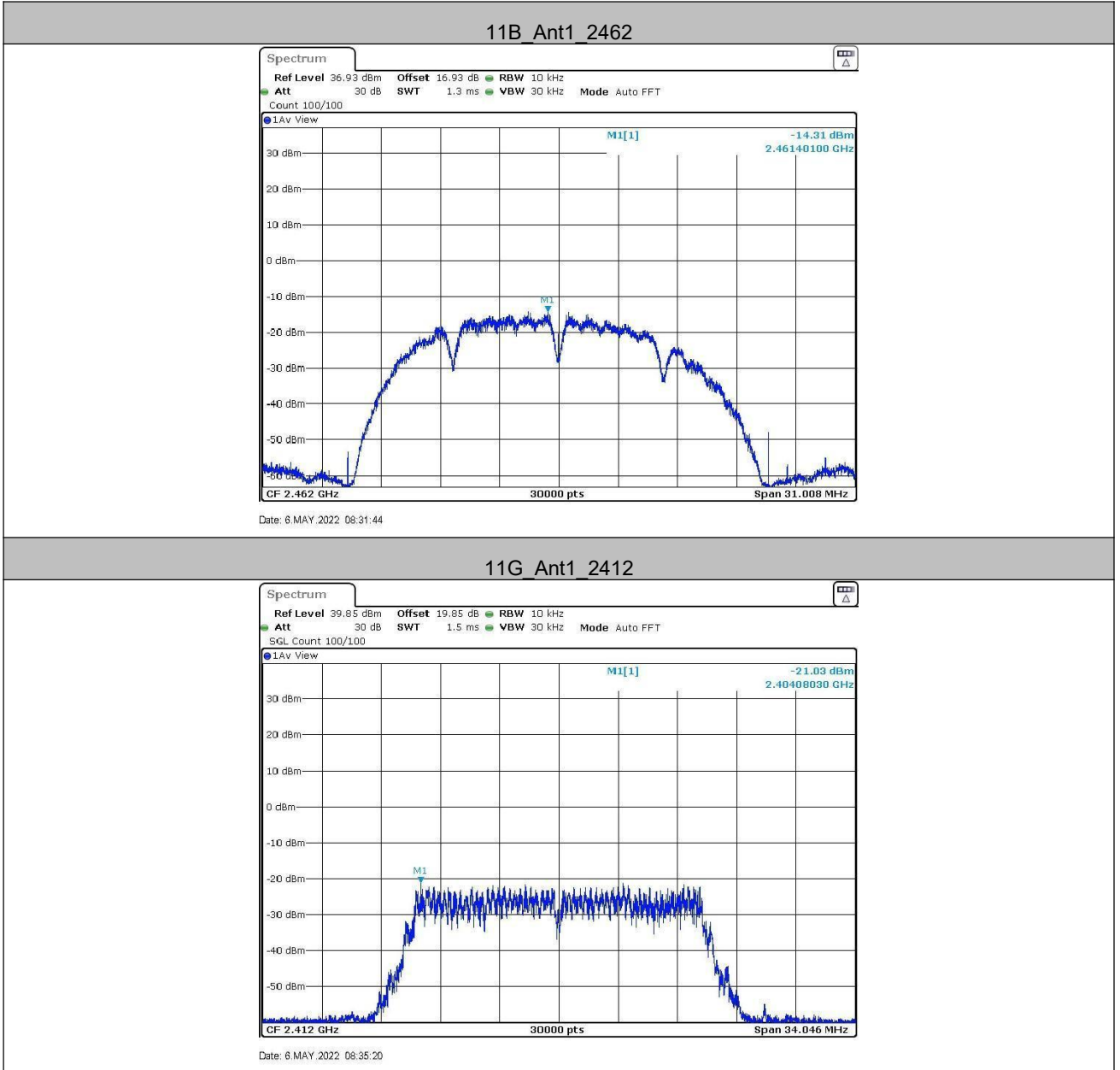
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass

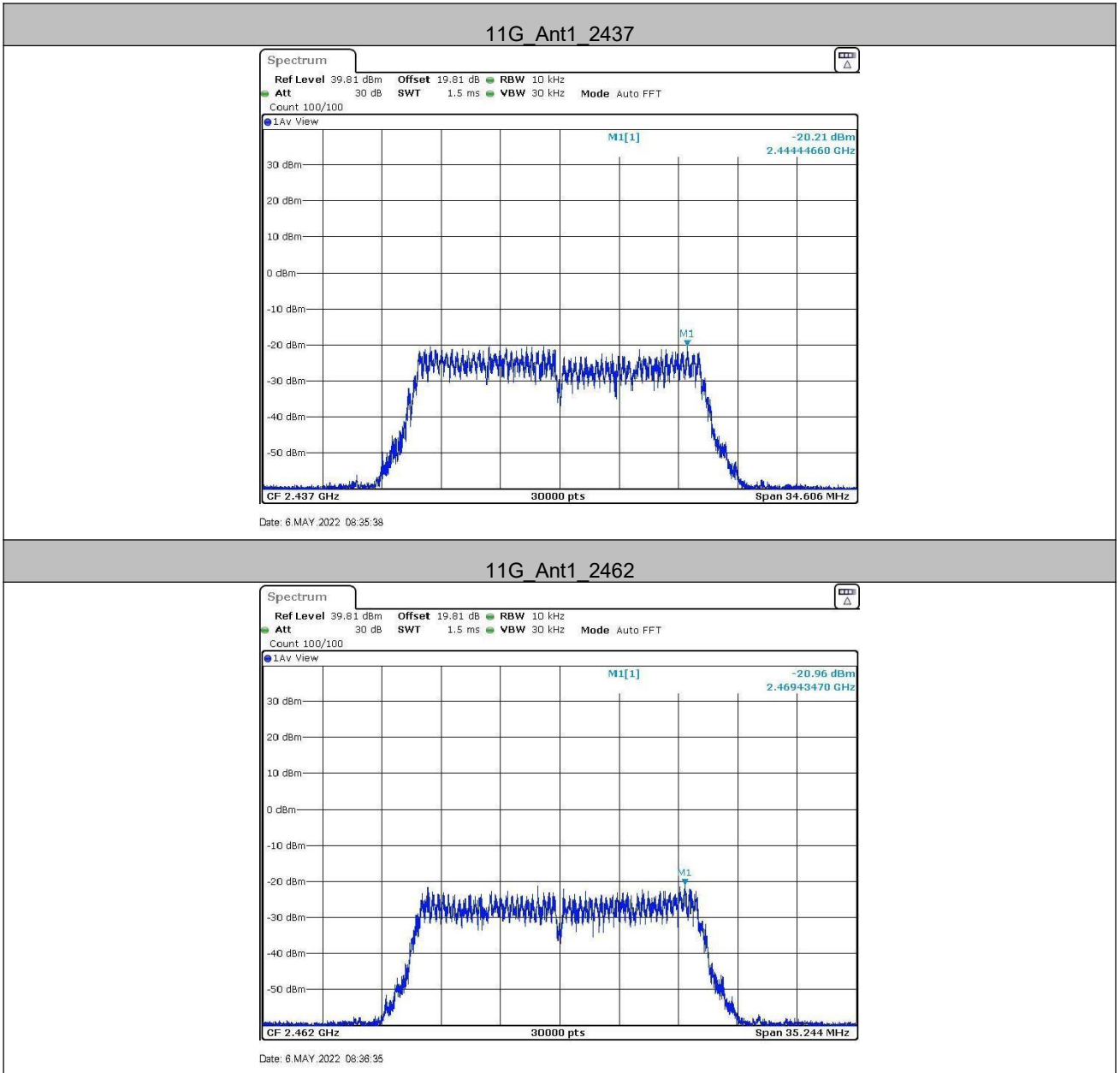
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	0.72	≤8	PASS
		2437	-13.97	≤8	PASS
		2462	-14.31	≤8	PASS
11G	Ant1	2412	-21.03	≤8	PASS
		2437	-20.21	≤8	PASS
		2462	-20.96	≤8	PASS
11N20SISO	Ant1	2412	-12.66	≤8	PASS
		2437	-10.96	≤8	PASS
		2462	-8.57	≤8	PASS
11N40SISO	Ant1	2422	-20.95	≤8	PASS
		2437	-13.23	≤8	PASS
		2452	-12.76	≤8	PASS

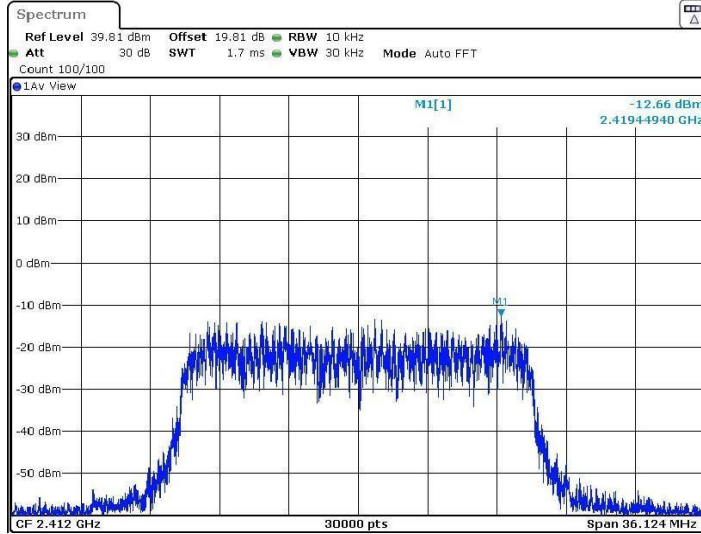
Test Graphs





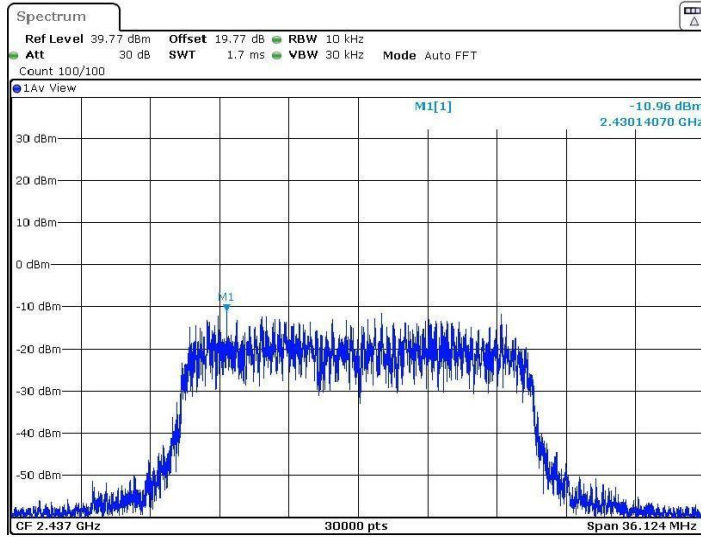


11N20SISO_Ant1_2412



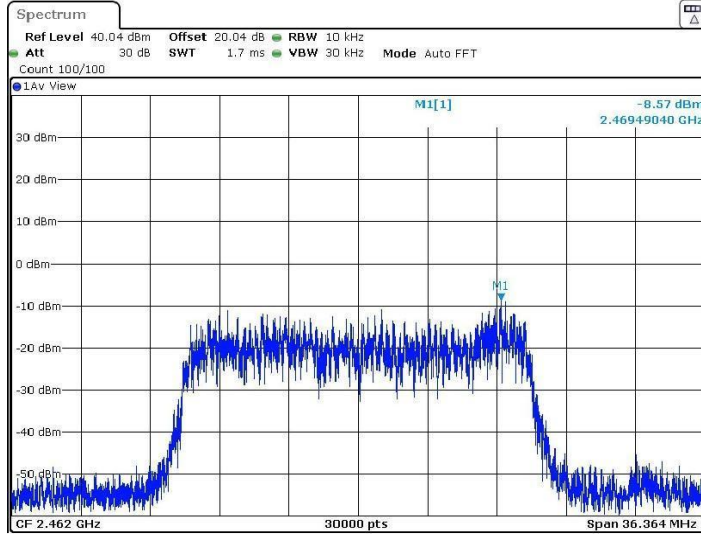
Date: 5.MAY.2022 09:21:28

11N20SISO_Ant1_2437

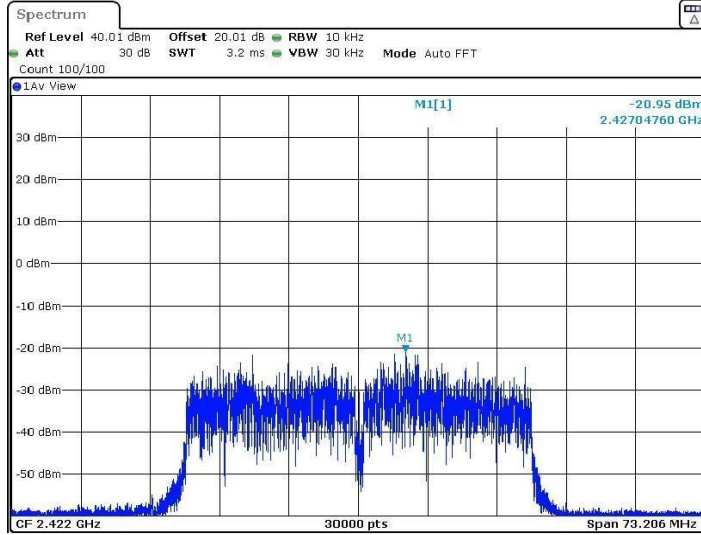


Date: 5.MAY.2022 09:29:36

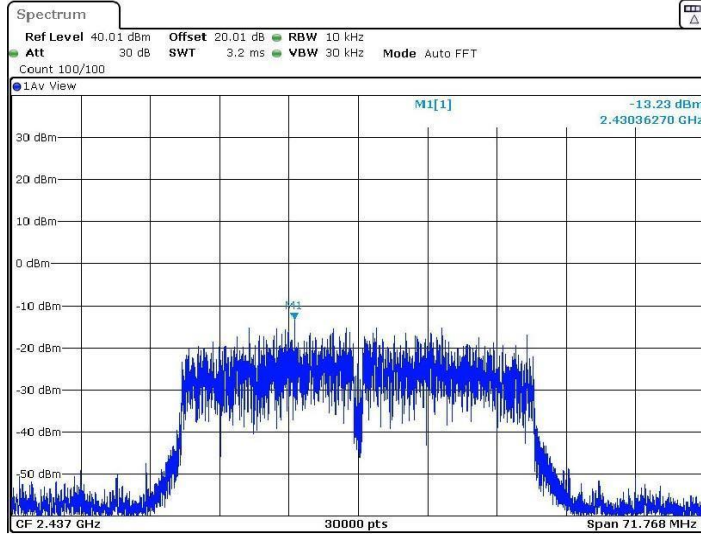
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

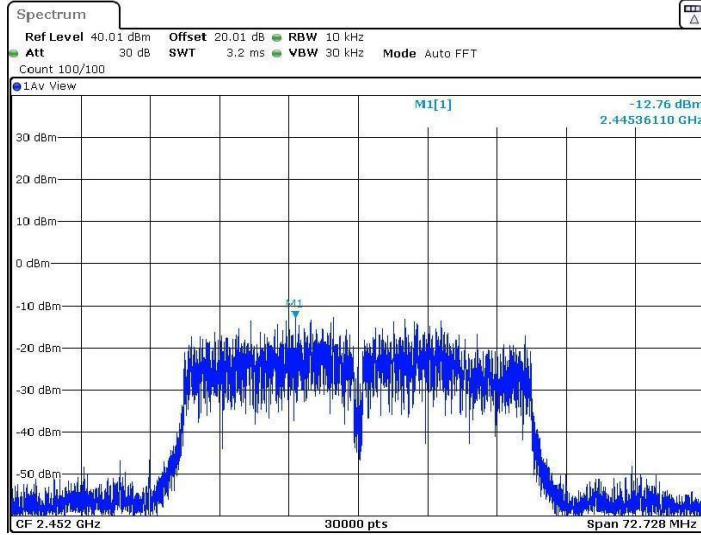


11N40SISO_Ant1_2437



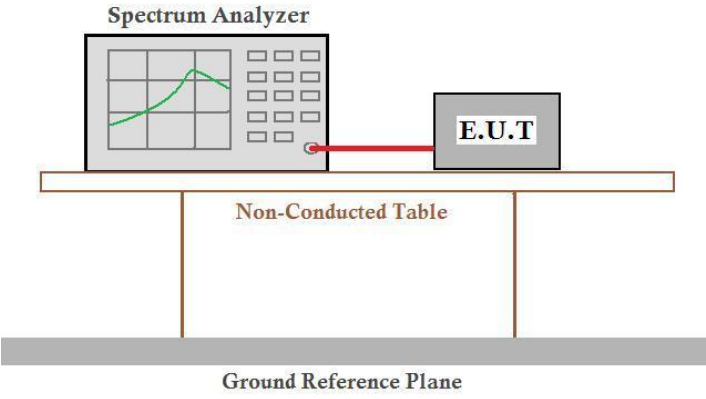
Date: 6 MAY 2022 02:38:07

11N40SISO_Ant1_2452



Date: 6 MAY 2022 02:40:26

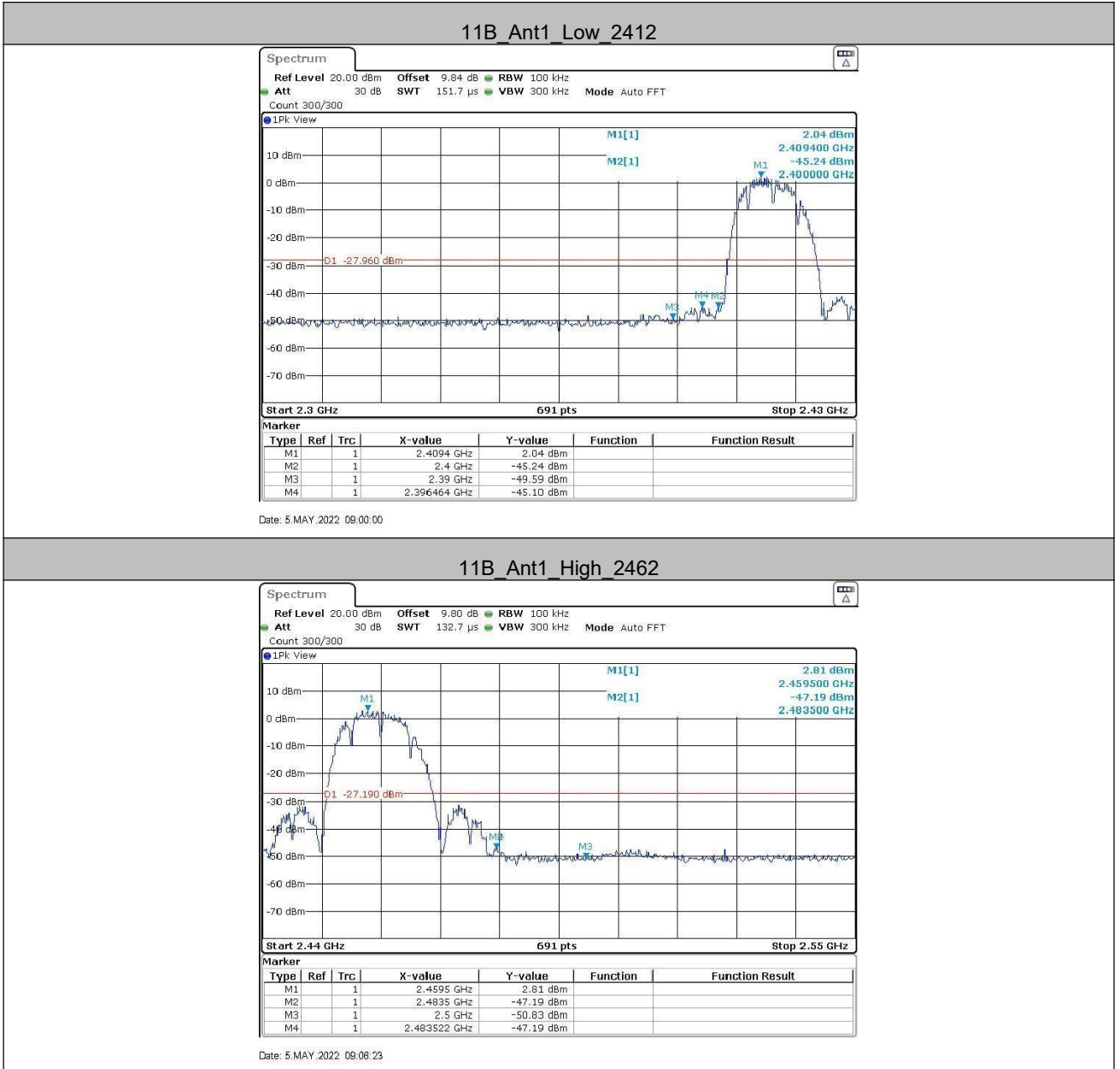
5.5 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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.
Test Results:	Pass

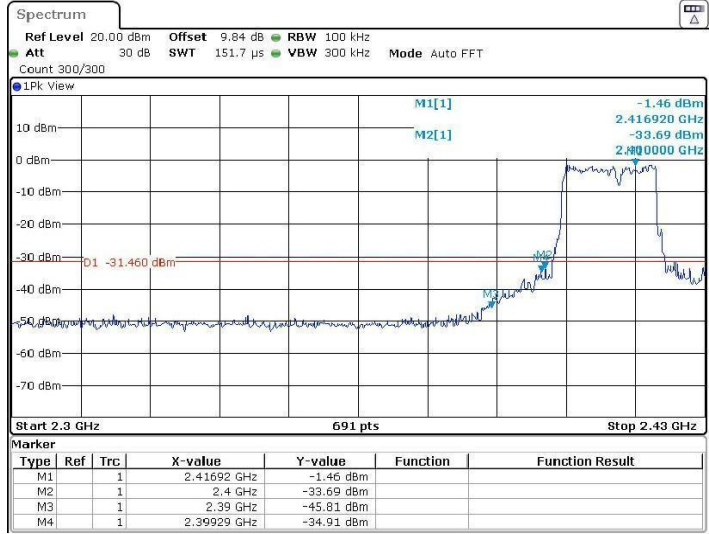
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.04	-45.1	≤-27.96	PASS
		High	2462	2.81	-47.19	≤-27.19	PASS
11G	Ant1	Low	2412	-1.46	-34.91	≤-31.46	PASS
		High	2462	3.38	-38.31	≤-26.62	PASS
11N20SISO	Ant1	Low	2412	1.13	-41.82	≤-28.87	PASS
		High	2462	2.35	-42.47	≤-27.65	PASS
11N40SISO	Ant1	Low	2422	-10.28	-46.48	≤-40.28	PASS
		High	2452	-2.35	-37.35	≤-32.35	PASS

5.5.1 Test Graphs

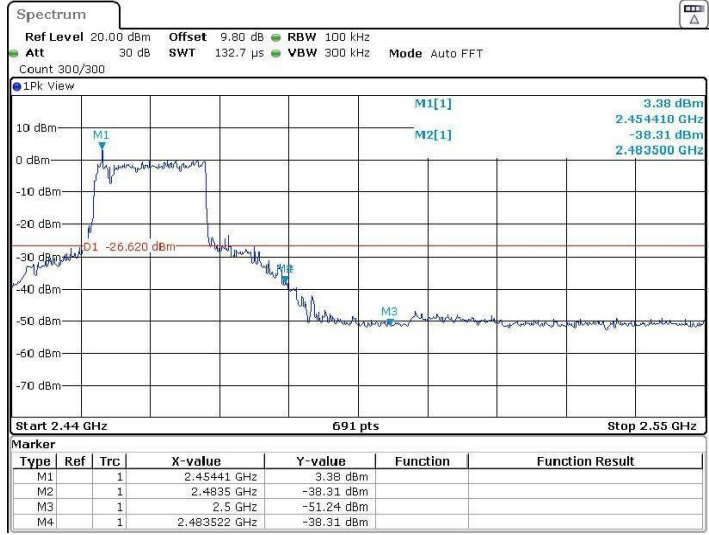


11G Ant1 Low 2412



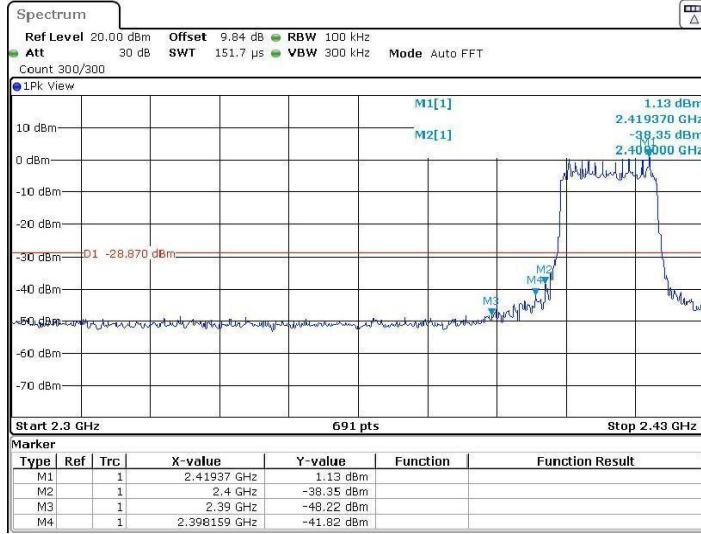
Date: 5.MAY.2022 09:09:37

11G Ant1 High 2462



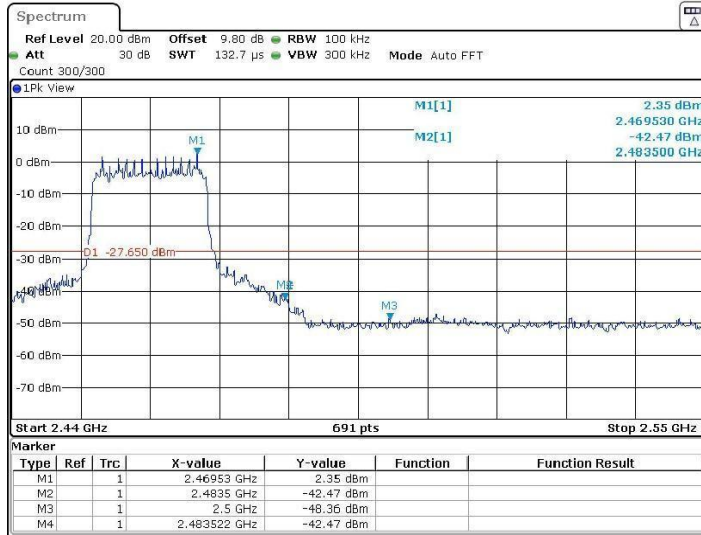
Date: 5.MAY.2022 09:17:52

11N20SISO_Ant1_Low_2412



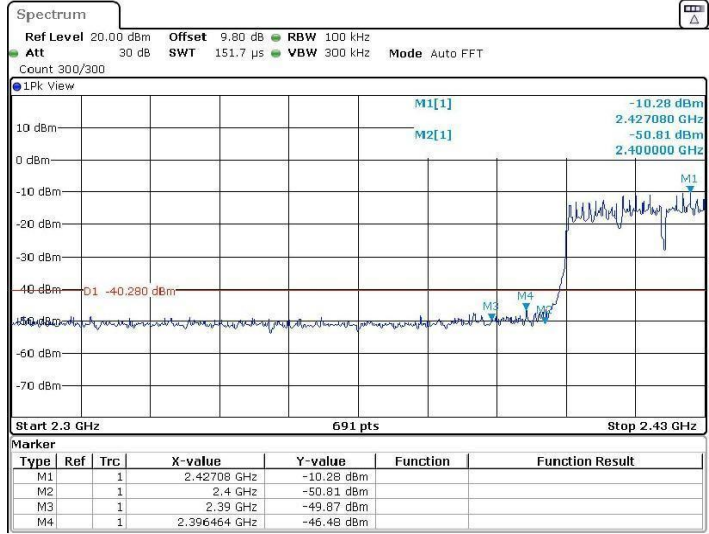
Date: 5.MAY.2022 09:21:38

11N20SISO_Ant1_High_2462



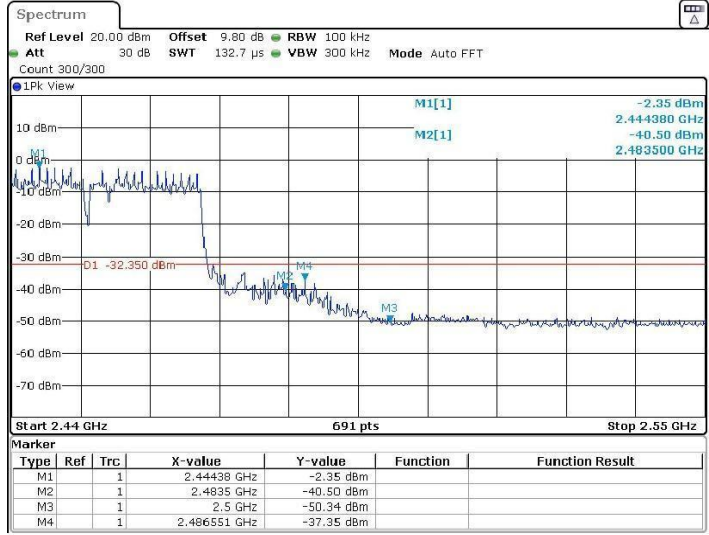
Date: 5.MAY.2022 09:43:24

11N40SISO_Ant1_Low_2422



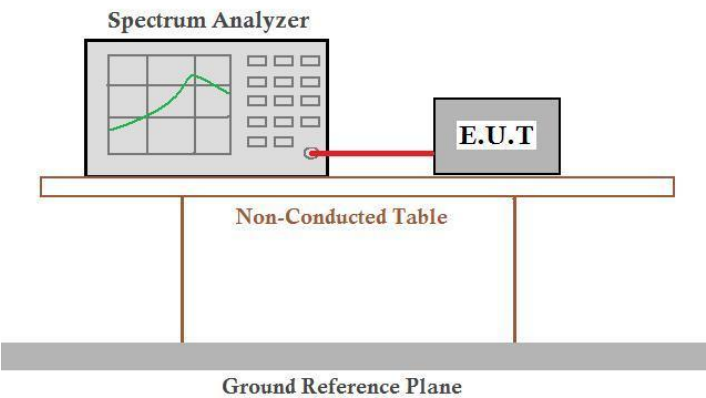
Date: 10 MAY 2022 09:04:47

11N40SISO_Ant1_High_2452



Date: 6 MAY 2022 02:40:36

5.6 RF Conducted Spurious Emissions

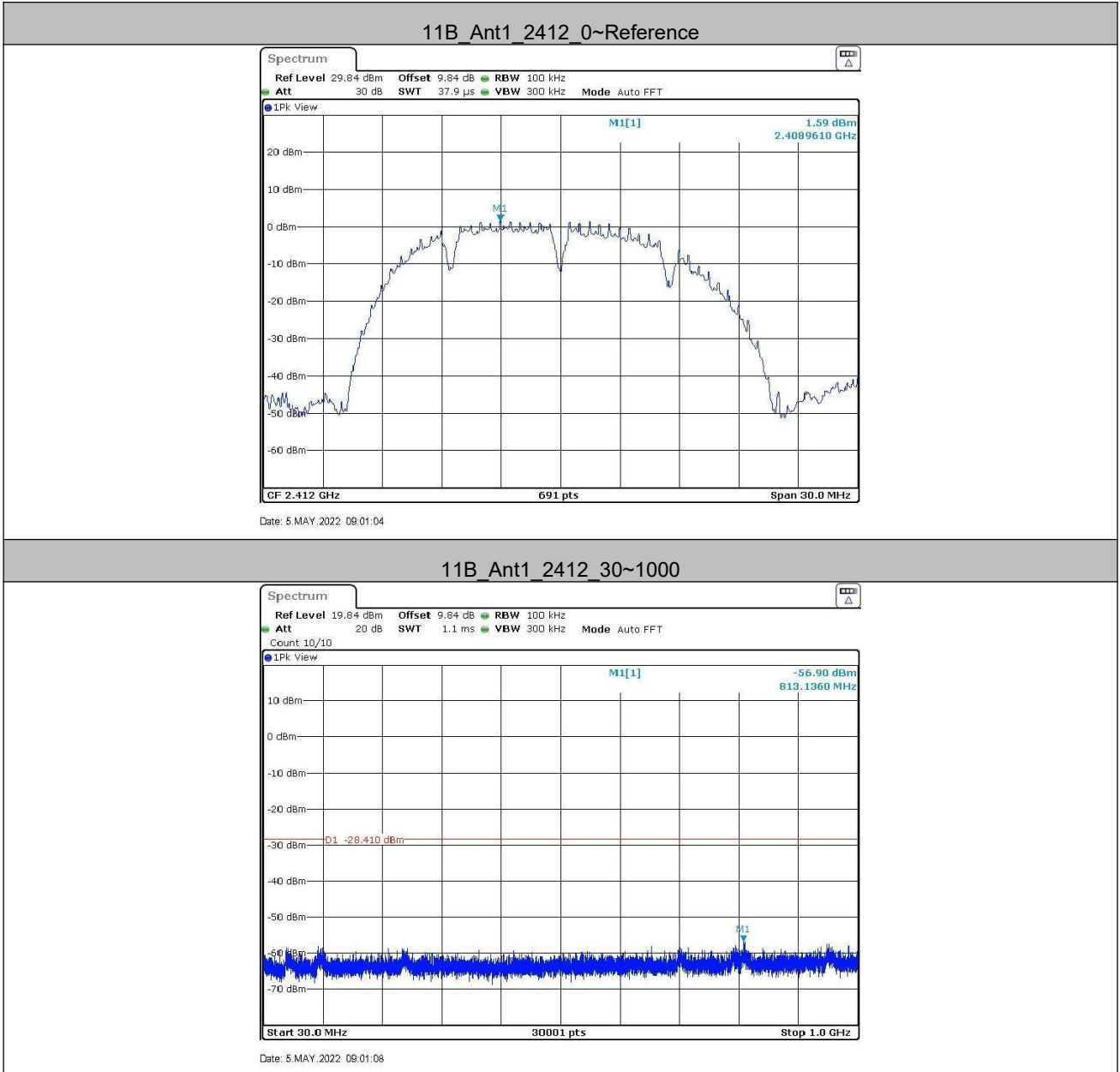
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>The diagram illustrates the test setup for RF conducted spurious emissions. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.</p> <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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.
Test Results:	Pass

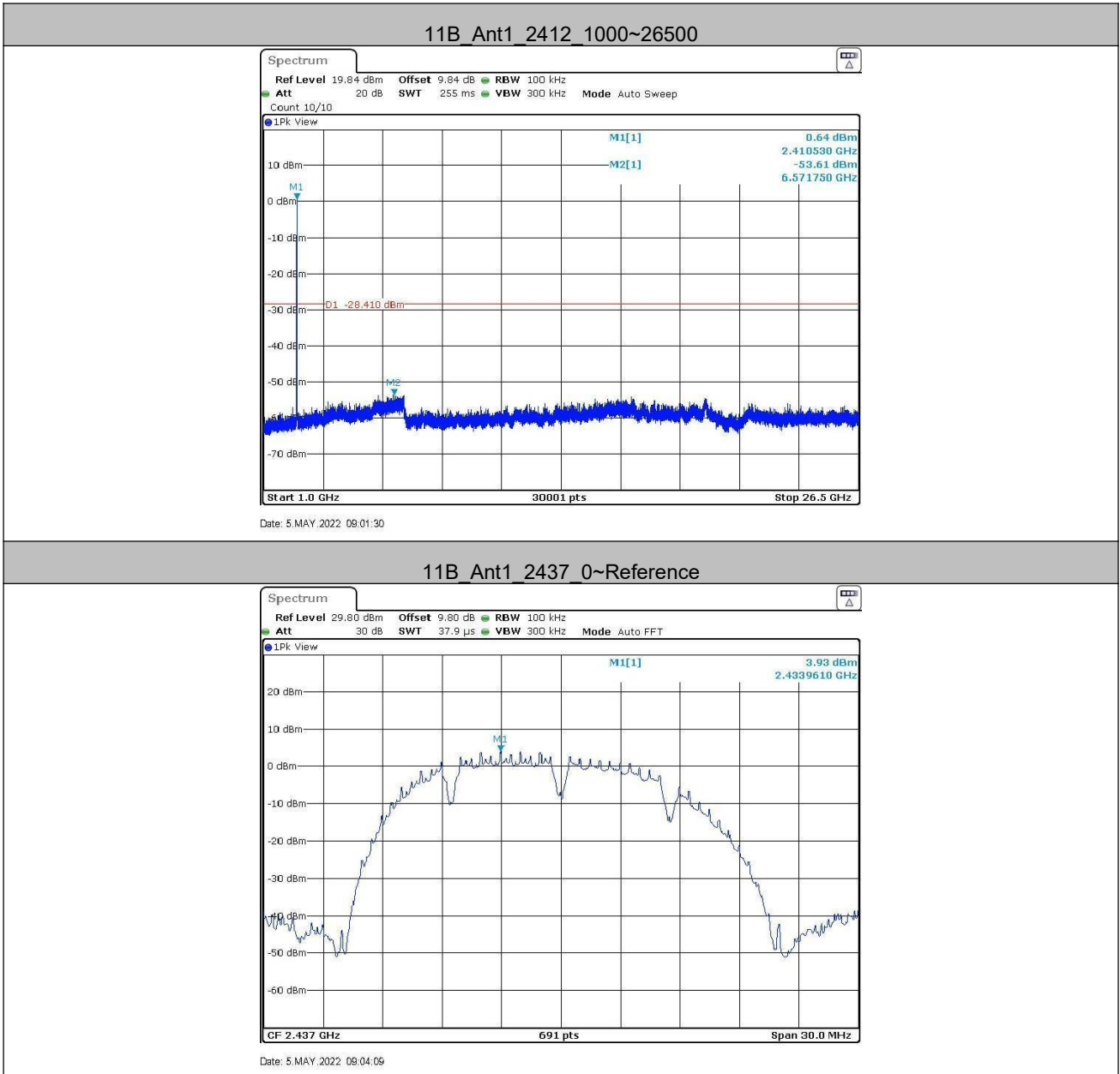
Test Result

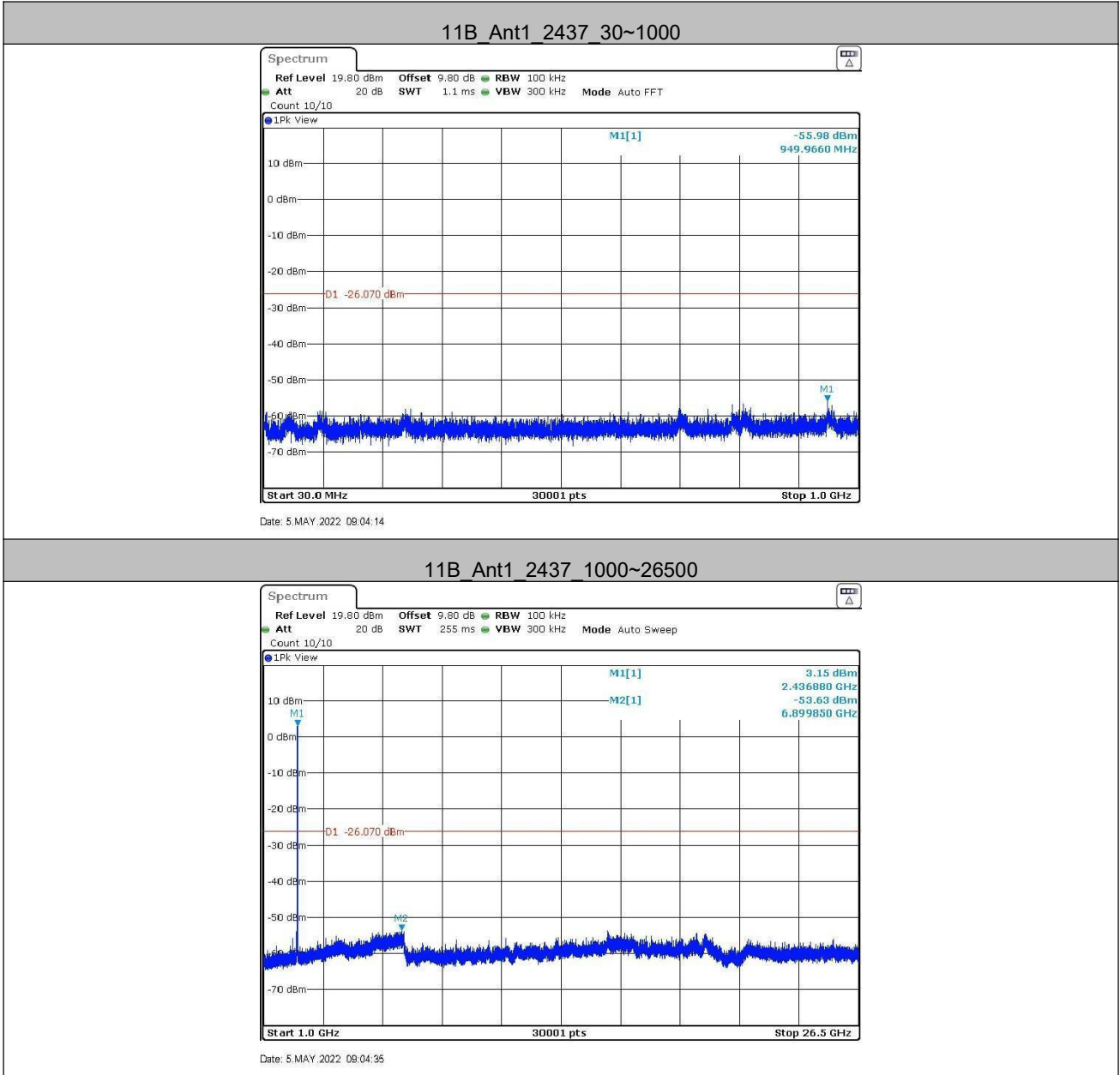
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-56.9	≤-28.41	PASS
			1000~26500	1.59	-53.61	≤-28.41	PASS
		2437	Reference	3.93	3.93	---	PASS
			30~1000	3.93	-55.98	≤-26.07	PASS
			1000~26500	3.93	-53.63	≤-26.07	PASS
		2462	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-57.72	≤-27	PASS
			1000~26500	3.00	-53.29	≤-27	PASS
11G	Ant1	2412	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-56.67	≤-31.19	PASS
			1000~26500	-1.19	-53.36	≤-31.19	PASS
		2437	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-56.66	≤-30.02	PASS
			1000~26500	-0.02	-53.08	≤-30.02	PASS
		2462	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-57.4	≤-25.74	PASS
			1000~26500	4.26	-53.5	≤-25.74	PASS
11N20SISO	Ant1	2412	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-57.31	≤-28.94	PASS
			1000~26500	1.06	-53.1	≤-28.94	PASS
		2437	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-57.8	≤-28.26	PASS
			1000~26500	1.74	-53.12	≤-28.26	PASS
		2462	Reference	2.08	2.08	---	PASS
			30~1000	2.08	-57.21	≤-27.92	PASS
			1000~26500	2.08	-53.32	≤-27.92	PASS
11N40SISO	Ant1	2422	Reference	-10.26	-10.26	---	PASS
			30~1000	-10.26	-56.58	≤-40.26	PASS
			1000~26500	-10.26	-53.16	≤-40.26	PASS
		2437	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-57.59	≤-31.81	PASS
			1000~26500	-1.81	-53.41	≤-31.81	PASS
		2452	Reference	-2.79	-2.79	---	PASS

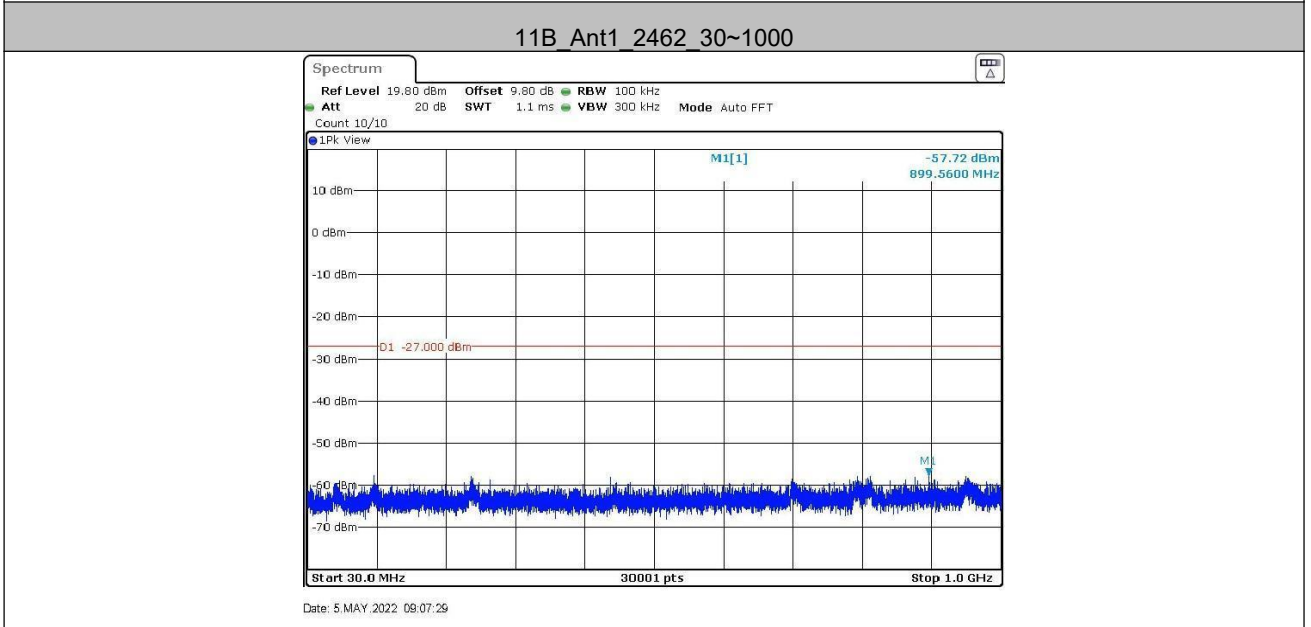
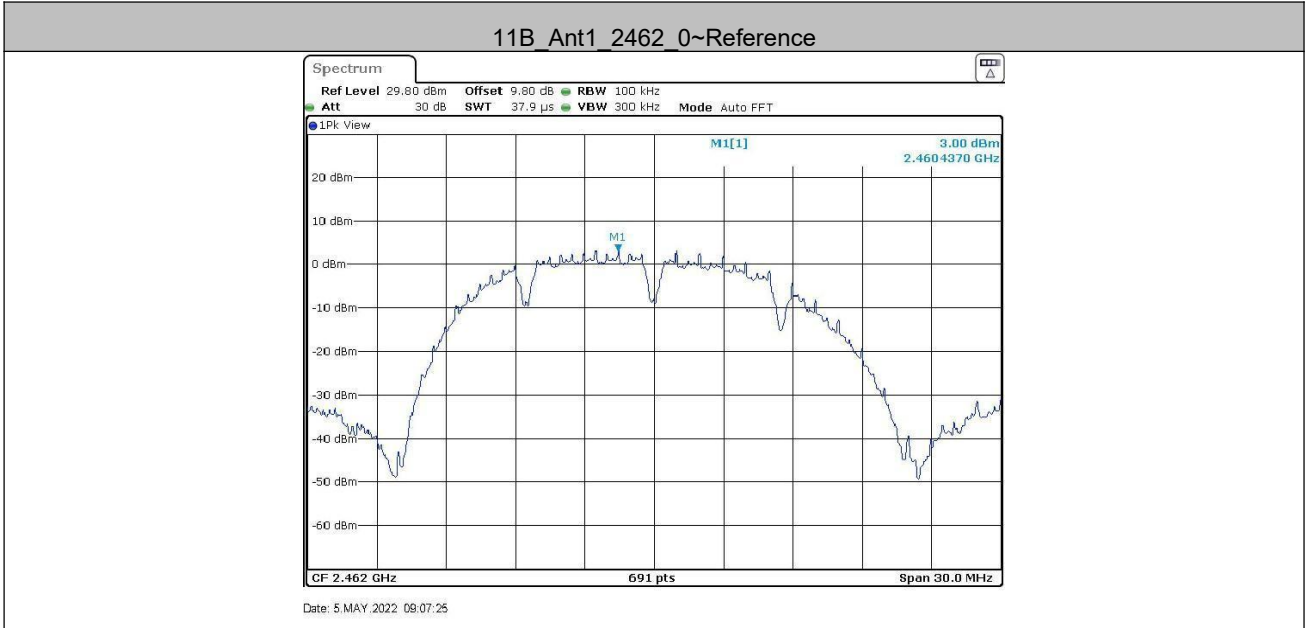
			30~1000	-2.79	-57.03	≤ -32.79	PASS
			1000~26500	-2.79	-52.88	≤ -32.79	PASS
11AC20SISO	Ant1	2412	Reference	1.45	1.45	---	PASS
			30~1000	1.45	-56.48	≤ -28.55	PASS
			1000~26500	1.45	-53.37	≤ -28.55	PASS
		2437	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-56.99	≤ -28.04	PASS
			1000~26500	1.96	-53.75	≤ -28.04	PASS
		2462	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-56.86	≤ -27.46	PASS
			1000~26500	2.54	-52.97	≤ -27.46	PASS

Test Graphs

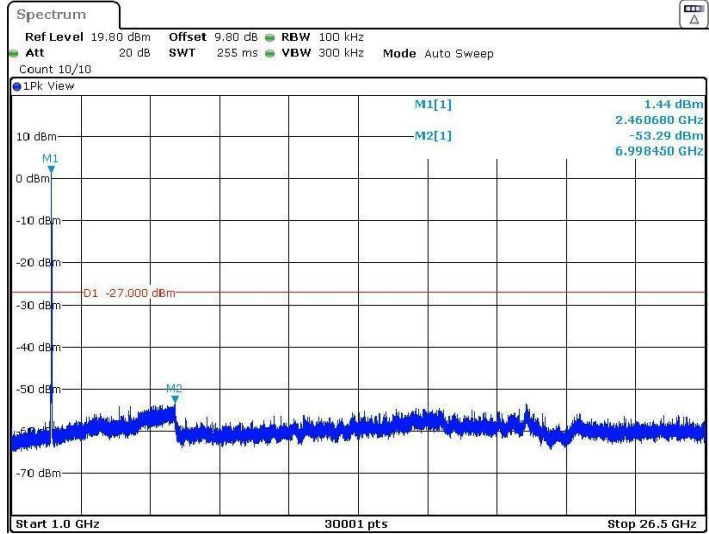






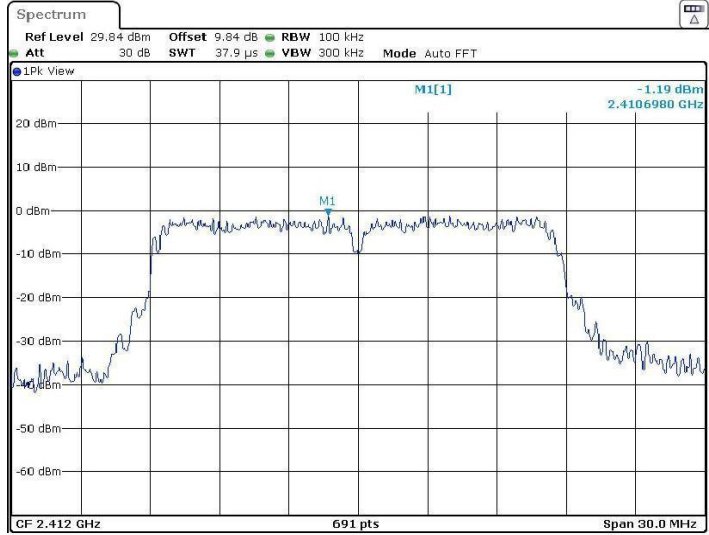


11B_Ant1_2462_1000~26500

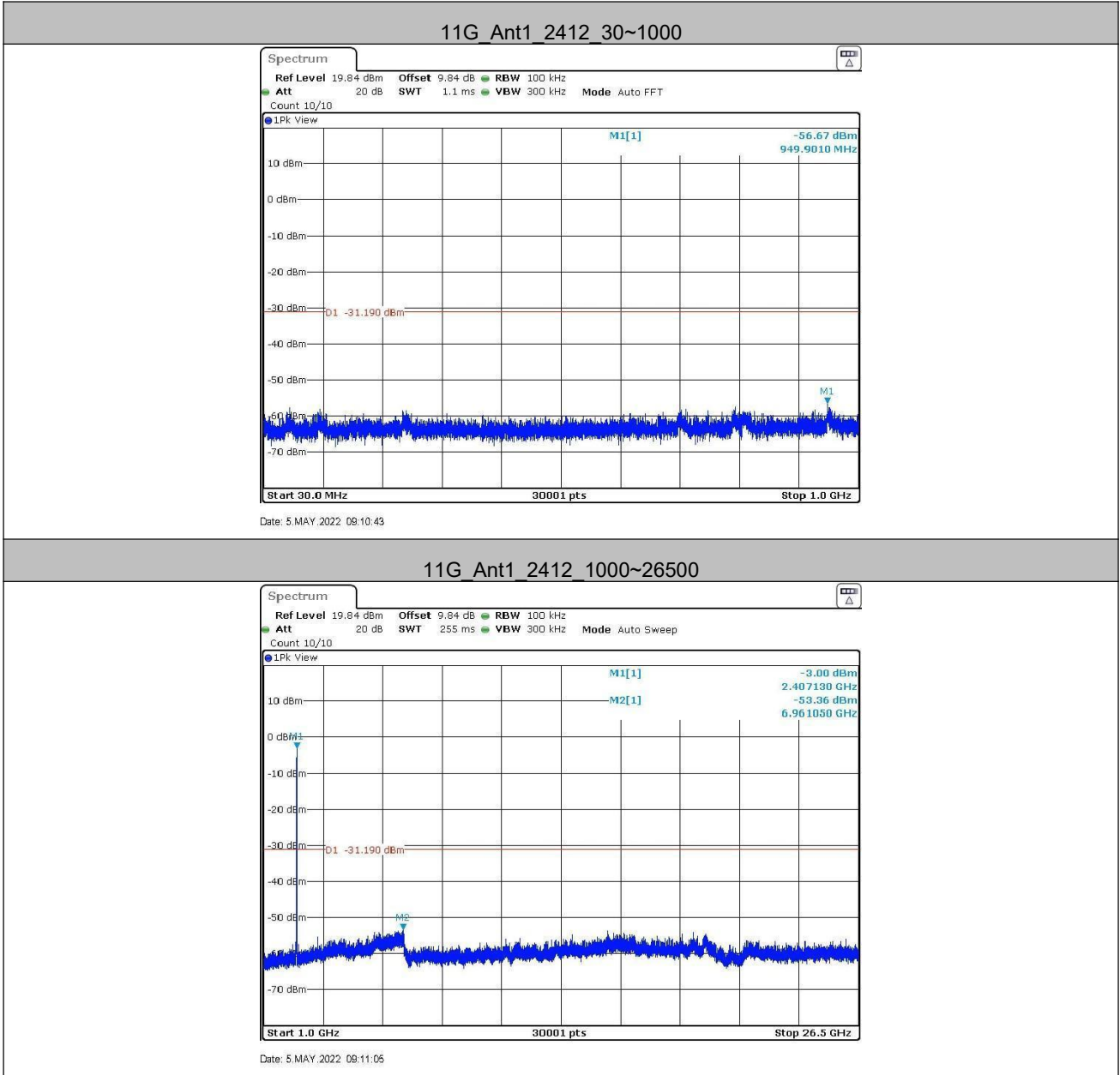


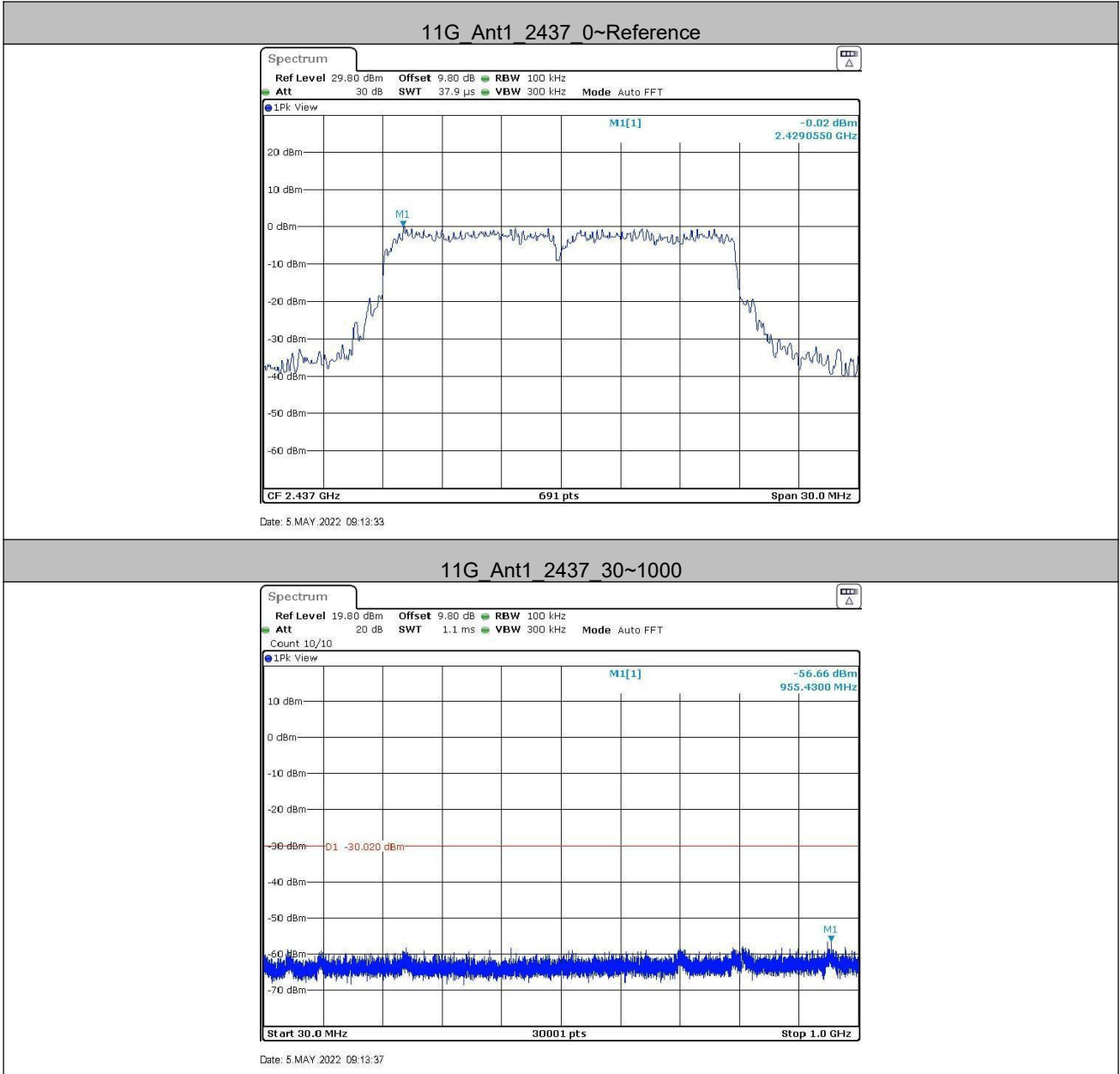
Date: 5.MAY.2022 09:07:51

11G_Ant1_2412_0~Reference

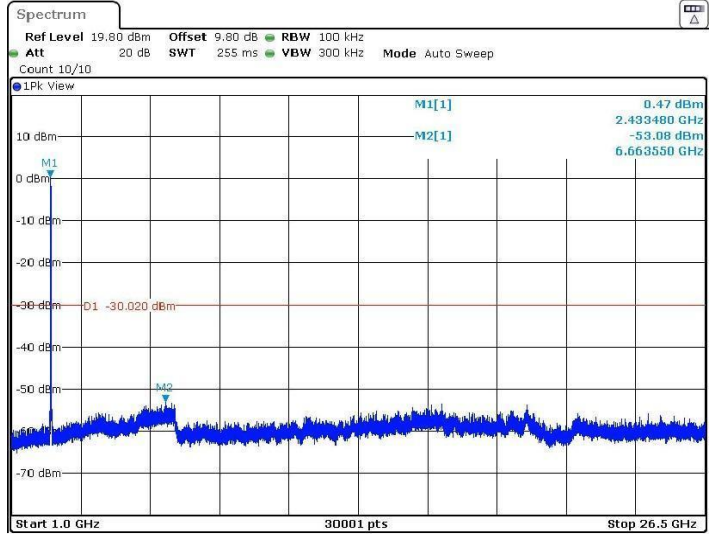


Date: 5.MAY.2022 09:10:39



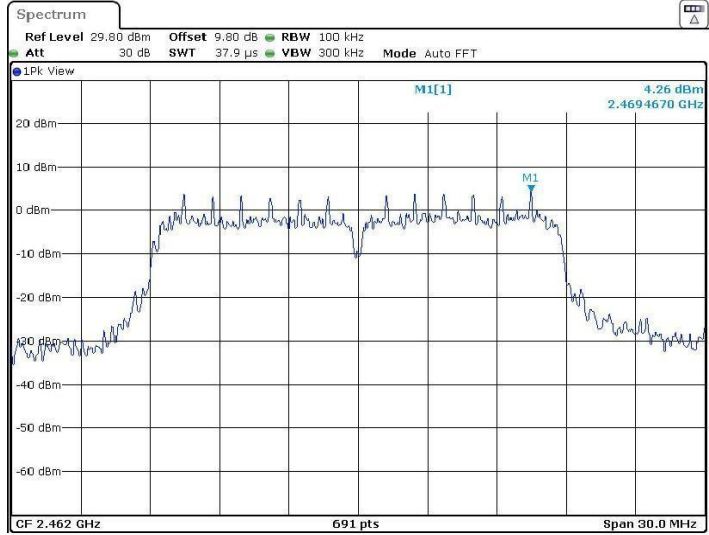


11G Ant1_2437_1000~26500



Date: 5.MAY.2022 09:13:59

11G Ant1_2462_0~Reference



Date: 5.MAY.2022 09:18:54