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TEST REPORT

Report No.: CQASZ20250200215E-03
Applicant: SHENZHEN JINGMAI TECHNOLOGY INNOVATION CO., LTD
Address of Applicant: A-301, HonShengYuan Industrial Park, NO.339 of BuLong Road, BanTian ST, LongGang Dist, ShenZhen
Equipment Under Test (EUT):
Product: Carplay
Model No.: RC18, RC27, RC26, RC28, RC29, RC30, RC31, RC32, RC33, RC34, RC35, RC36, RC37, RC38, RC39, RC40, RC41, RC42
Test Model No.: RC18
Brand Name: N/A
FCC ID: 2BNPY-RC27
Standards: 47 CFR Part 15, Subpart C
KDB558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10:2020
Date of Receipt: 2025-02-11
Date of Test: 2025-02-11 to 2025-03-21
Date of Issue: 2025-09-19
Test Result : **PASS***

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

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250200215E-03	Rev.01	Initial report	2025-09-19

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	PASS
AC Power Line Conducted Emission	47 CFR Part 15.207	ANSI C63.10-2020	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10-2020	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2020	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10-2020	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2020	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

3 Contents

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4 General Information

4.1 Client Information

Applicant:	SHENZHEN JINGMAI TECHNOLOGY INNOVATION CO., LTD
Address of Applicant:	A-301, HonShengYuan Industrial Park, NO.339 of BuLong Road,BanTian ST,LongGang Dist, ShenZhen
Manufacturer:	Dongguan Zhongke Zhilian Technology Co., Ltd.
Address of Manufacturer:	Room 901, Building 2, No. 2 Ma'anling Road, Tangxia Town, Dongguan City, Guangdong Province, China
Factory:	Dongguan Zhongke Zhilian Technology Co., Ltd.
Address of Factory:	Room 901, Building 2, No. 2 Ma'anling Road, Tangxia Town, Dongguan City, Guangdong Province, China

4.2 General Description of EUT

Product Name:	Carplay
Model No.:	RC18, RC27, RC26, RC28, RC29, RC30, RC31, RC32, RC33, RC34, RC35, RC36, RC37, RC38, RC39, RC40, RC41, RC42
Test Model No.:	RC18
Trade Mark:	N/A
Software Version:	JM_20250319
Hardware Version:	T86PND-USB-S
Power Supply:	Power by DC 12-24V
EUT Supports Radios application:	Bluetooth: 2402-2480MHz 2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz;
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report. ☒ Simultaneous TX is not supported.

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 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) : 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
Product Type:	☒ Mobile ☐ Portable
Test Software of EUT:	serial
Antenna Type:	FPC antenna
Antenna Gain:	1.59dBi

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		

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:

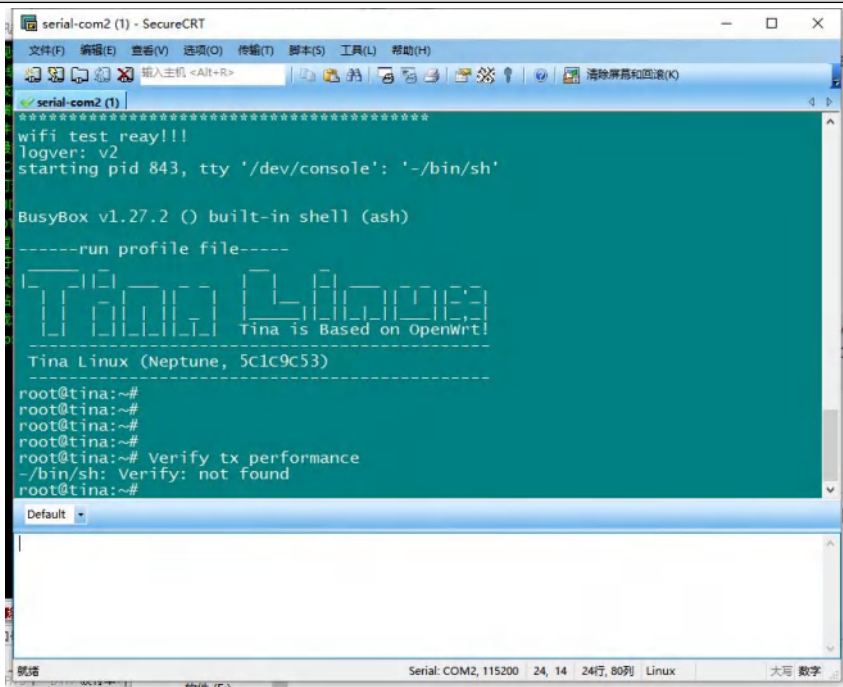
For 802.11b/g/n (HT20):

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

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

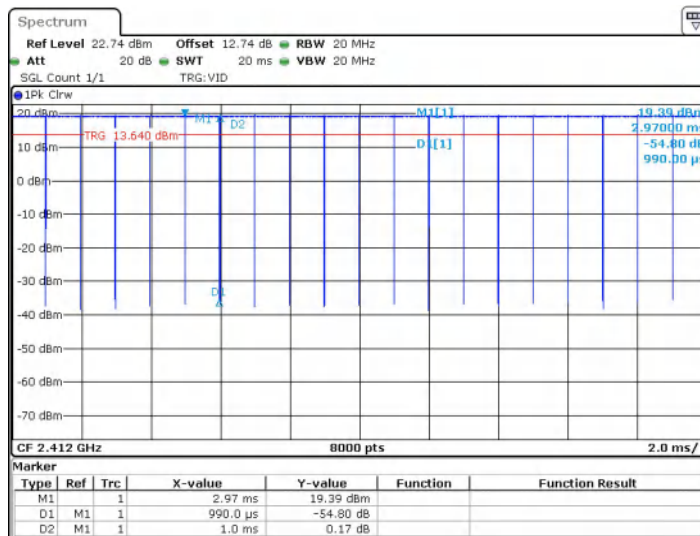
Operating Environment:	
Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	EUT is set in RF test mode in all supported modulation types, bandwidth and data rate, etc.
EUT Power level:	Class0
Run Software:	
	

Operated Mode for Worst Duty Cycle:		
Test Mode	Duty Cycle(%)	Average correction factor(dB)
IEEE802.11b	99.00	/
IEEE802.11g	98.57	/
IEEE802.11n (HT20)	98.48	/

Remark:

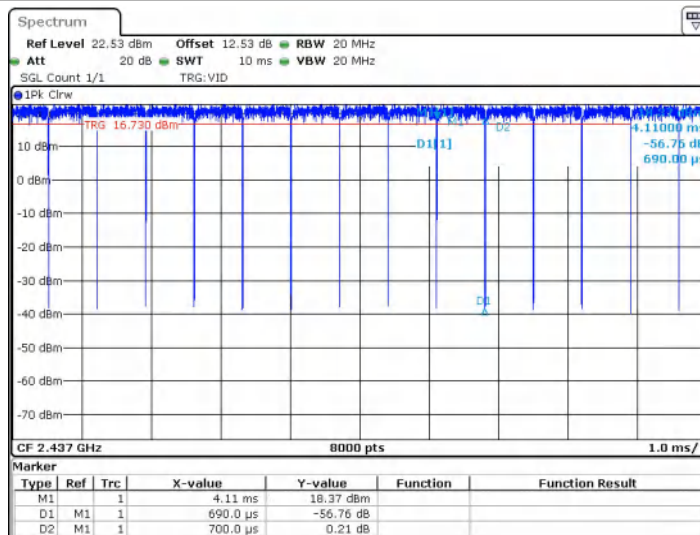
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

Test Graph_IEEE802.11b Duty Cycle:



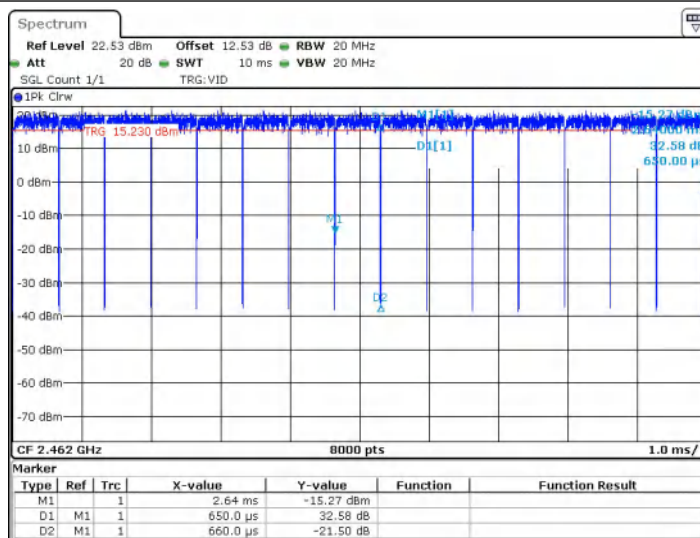
Date: 5 MAR 2025 14:59:59

Test Graph_IEEE802.11g Duty Cycle:



Date: 5 MAR 2025 14:02:07

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



Date: 5 MAR 2025 14:53:55

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℃	(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	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2	2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2024/9/2	2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2024/9/2	2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2	2025/9/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2	2025/9/1
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2	2025/9/1
Power meter	R&S	NRVD	CQA-029	2024/9/2	2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2024/9/2	2025/9/1
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
LISN	R&S	ENV216	CQA-003	2024/9/2	2025/9/1
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2	2025/9/1
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2	2025/9/1

Test software:

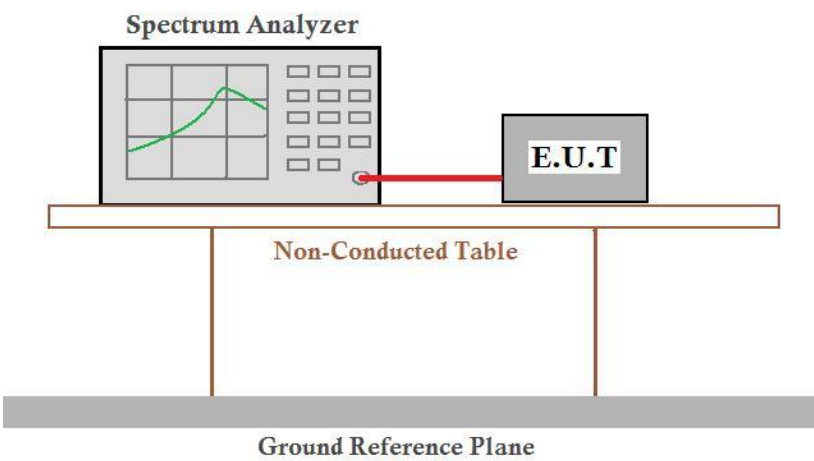
	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

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 FPC antenna. The connection/connection type between the antenna to the EUT's antenna port is: permanently attachment. This is either permanently attachment or a unique coupling that satisfies the requirement.</p>	

5.2 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10: 2020
Test Setup:	<p><i>Setup for Power meter measurement method</i></p>  <p><i>Setup for Spectrum analyser measurement method</i></p> 
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	30dBm
Test Results:	Pass

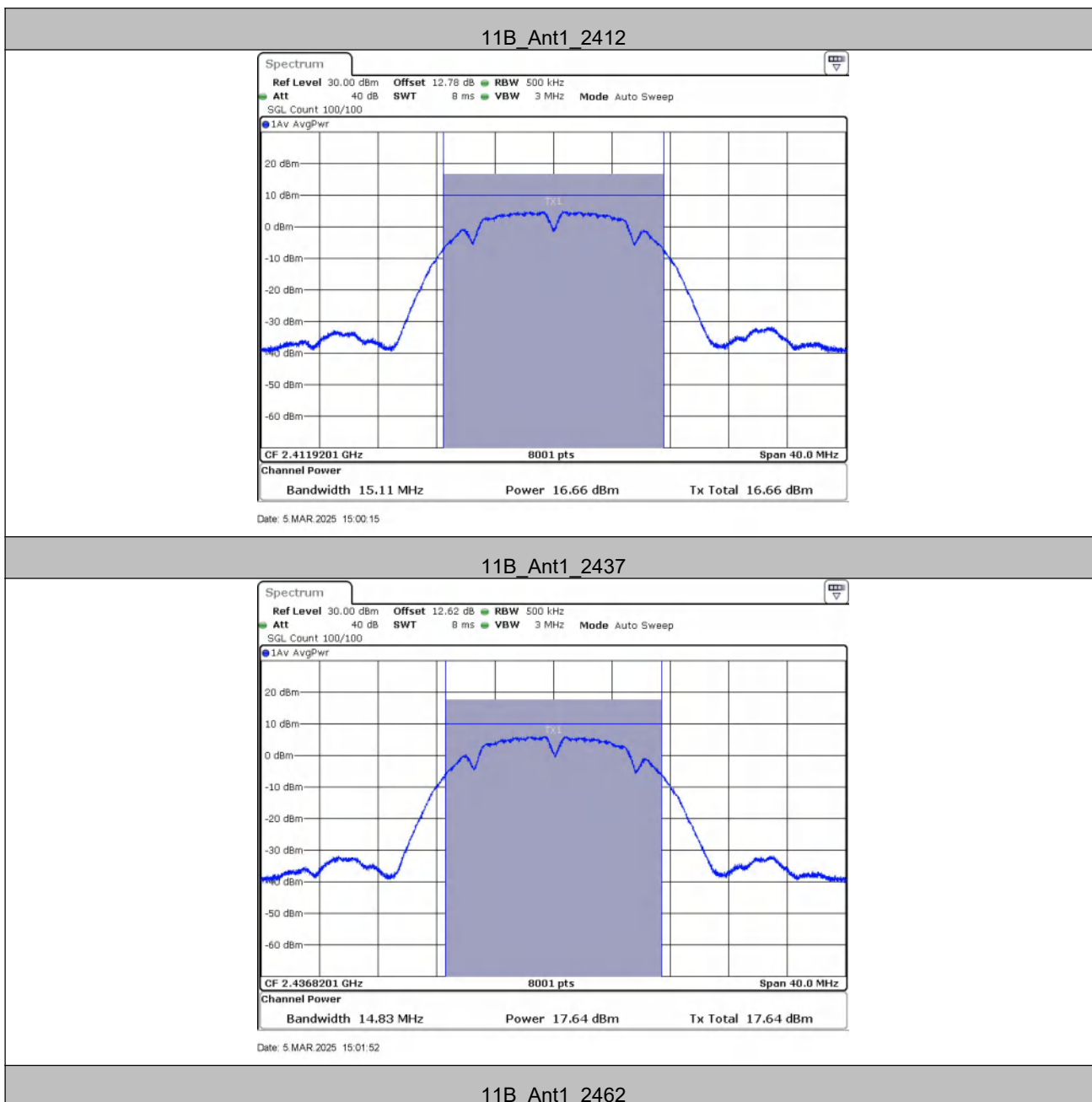
Test Result

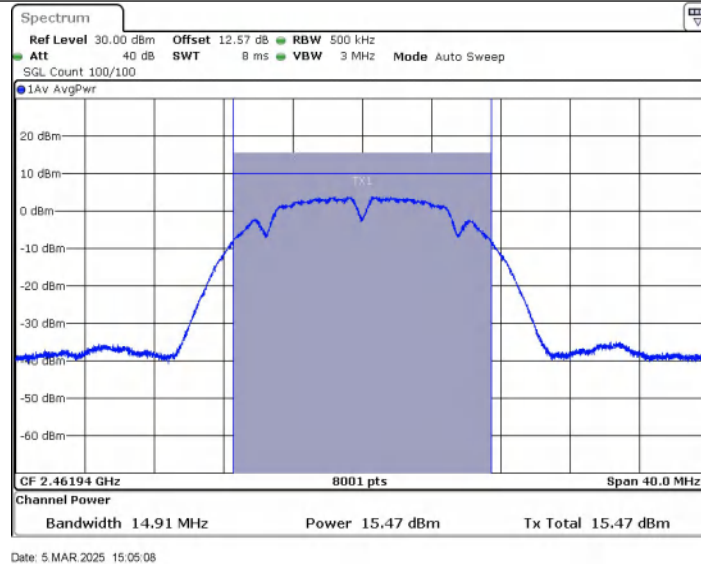
Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	2412	16.66	≤30.00	18.39	≤36.00	PASS
	2437	17.64	≤30.00	19.37	≤36.00	PASS
	2462	15.47	≤30.00	17.2	≤36.00	PASS
11G	2412	14.56	≤30.00	16.29	≤36.00	PASS
	2437	15.06	≤30.00	16.79	≤36.00	PASS
	2462	12.87	≤30.00	14.6	≤36.00	PASS
11N20SISO	2412	13.94	≤30.00	15.67	≤36.00	PASS
	2437	14.67	≤30.00	16.4	≤36.00	PASS
	2462	12.59	≤30.00	14.32	≤36.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

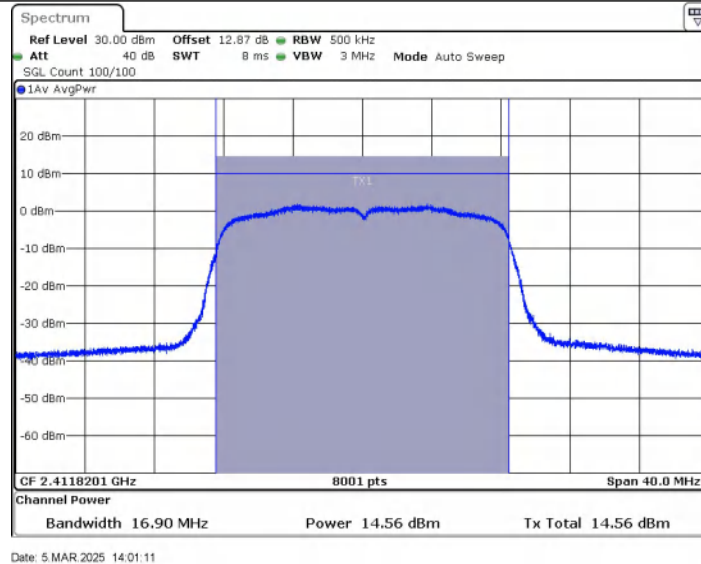
When Duty cycle >98%, D.C.F is not required.

Test Graphs

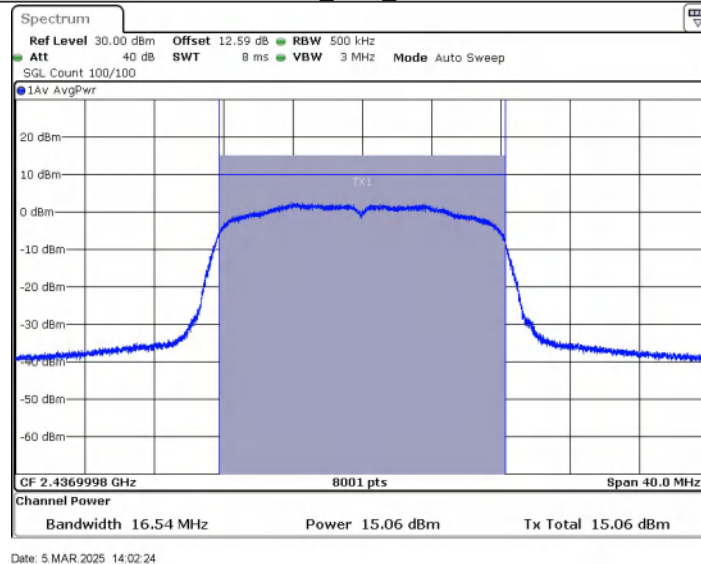




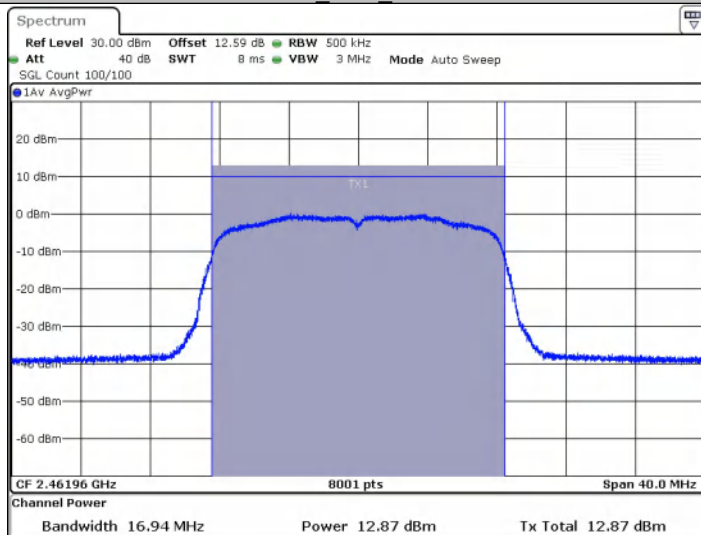
11G_Ant1_2412



11G_Ant1_2437

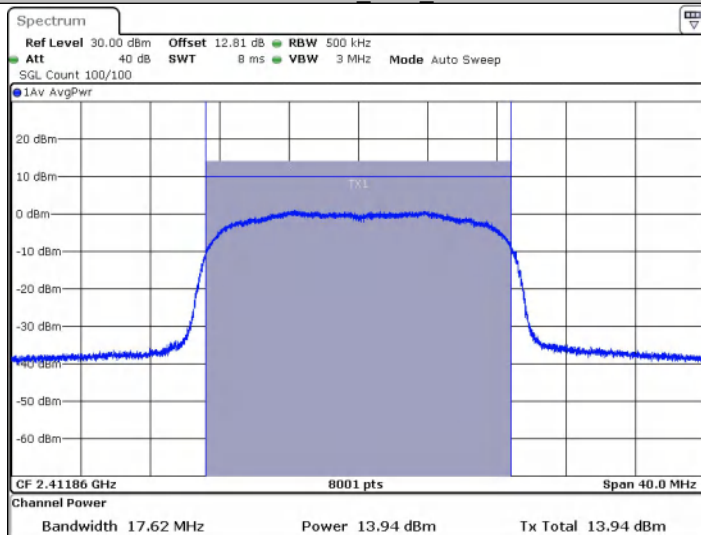


11G_Ant1_2462



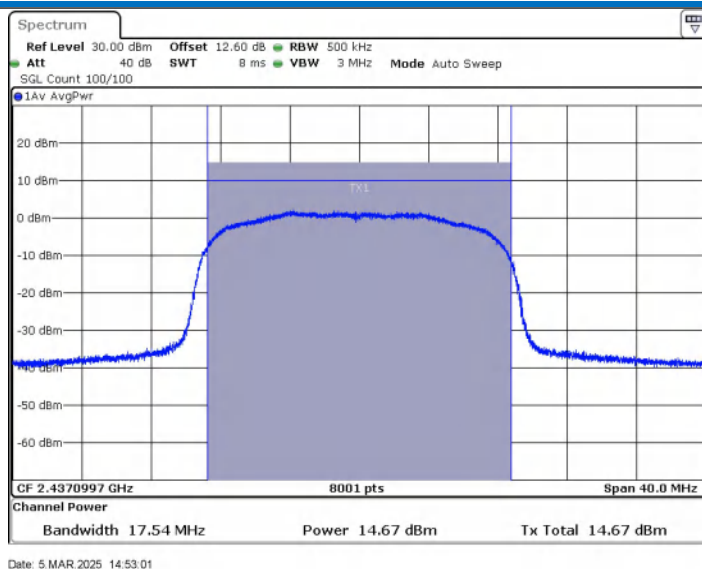
Date: 5.MAR.2025 14:05:51

11N20SISO_Ant1_2412

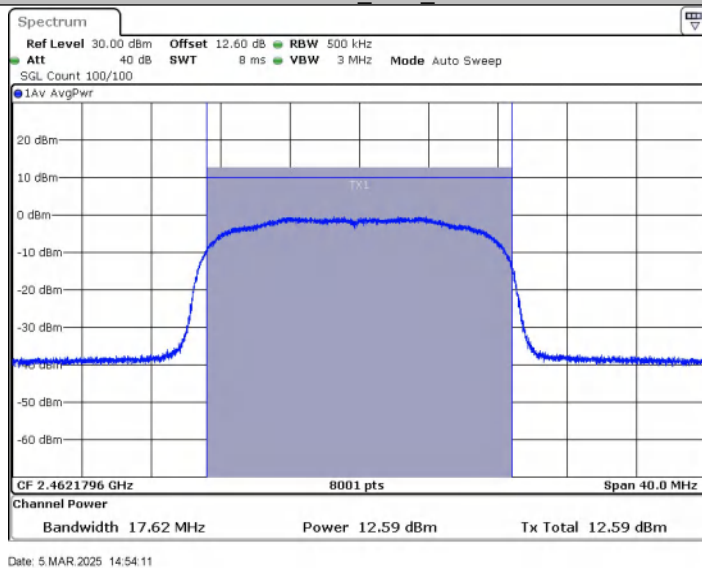


Date: 5.MAR.2025 14:51:48

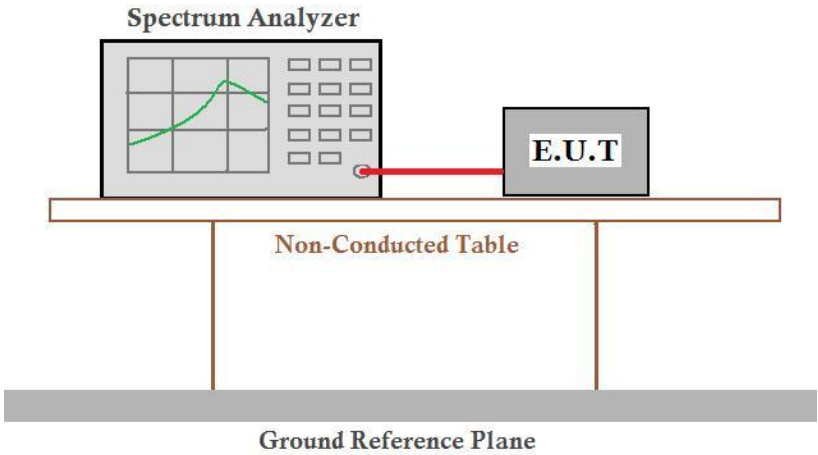
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



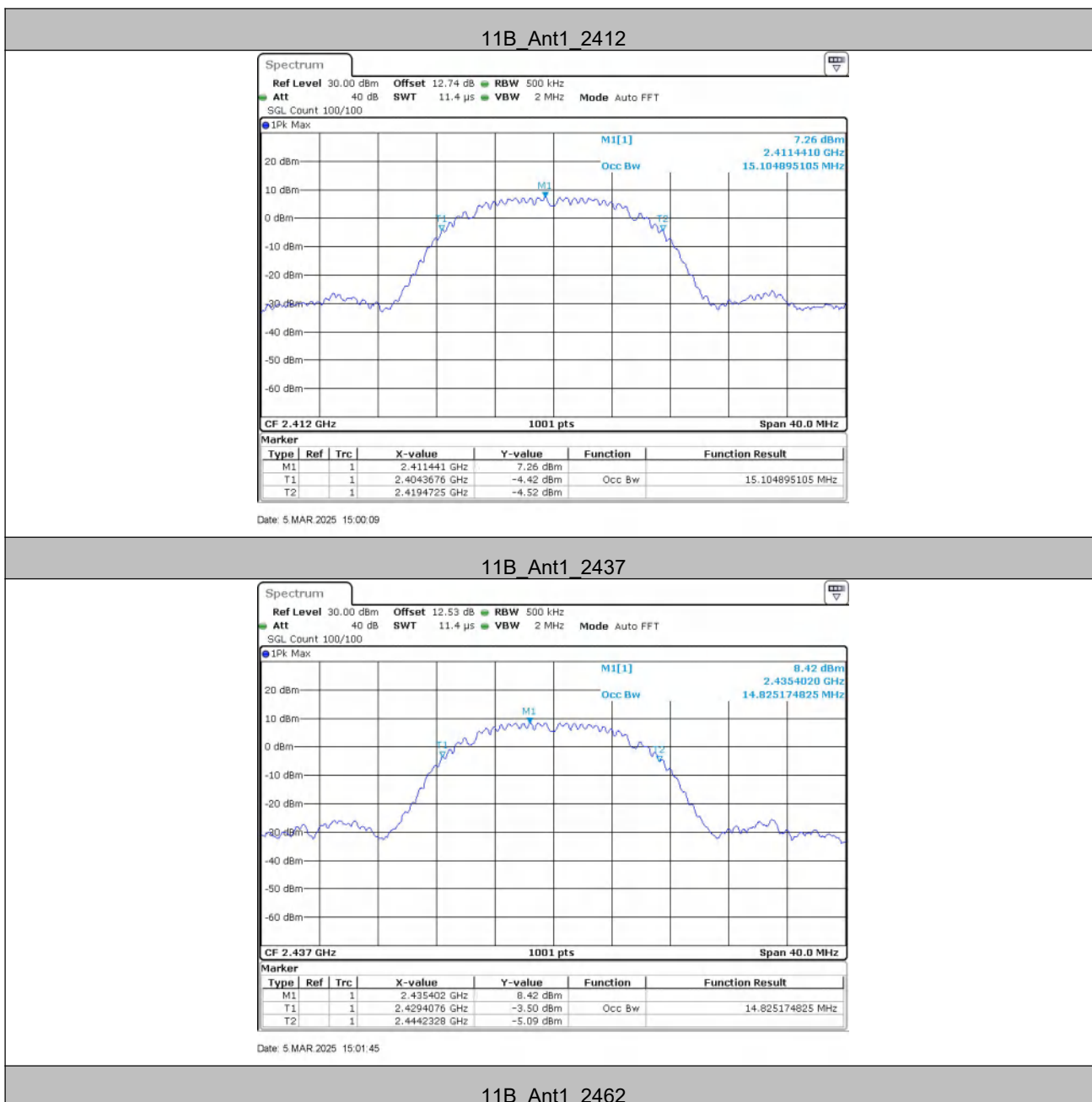
5.3 99% Occupied Bandwidth

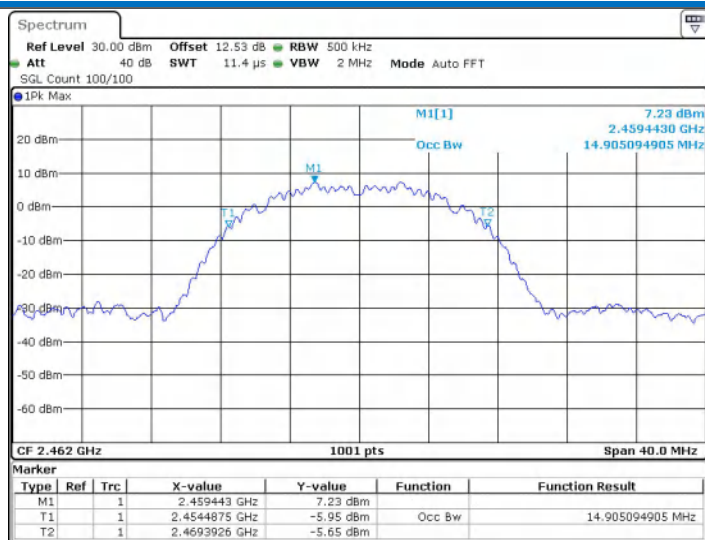
Test Requirement:	47 CFR Part 15C
Test Method:	ANSI C63.10: 2020
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

Test Result

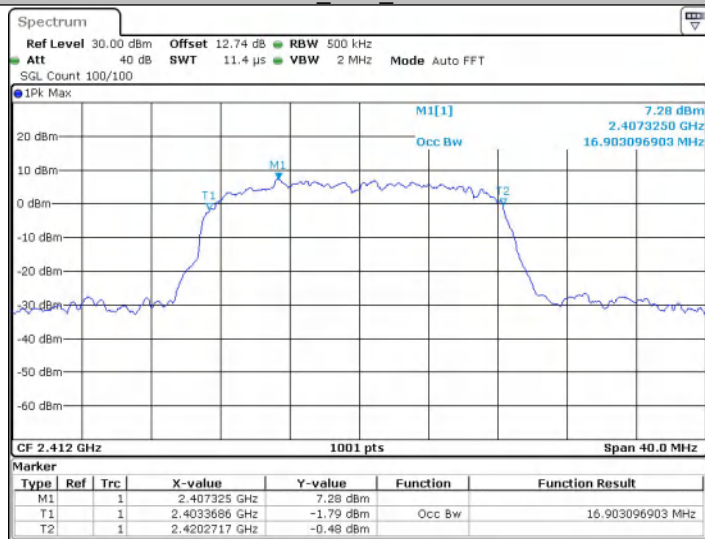
TestMode	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	15.105	2404.3676	2419.4725
	2437	14.825	2429.4076	2444.2328
	2462	14.905	2454.4875	2469.3926
11G	2412	16.903	2403.3686	2420.2717
	2437	16.543	2428.7283	2445.2717
	2462	16.943	2453.4885	2470.4316
11N20SISO	2412	17.622	2403.0490	2420.6713
	2437	17.542	2428.3287	2445.8711
	2462	17.622	2453.3686	2470.9910

Test Graphs

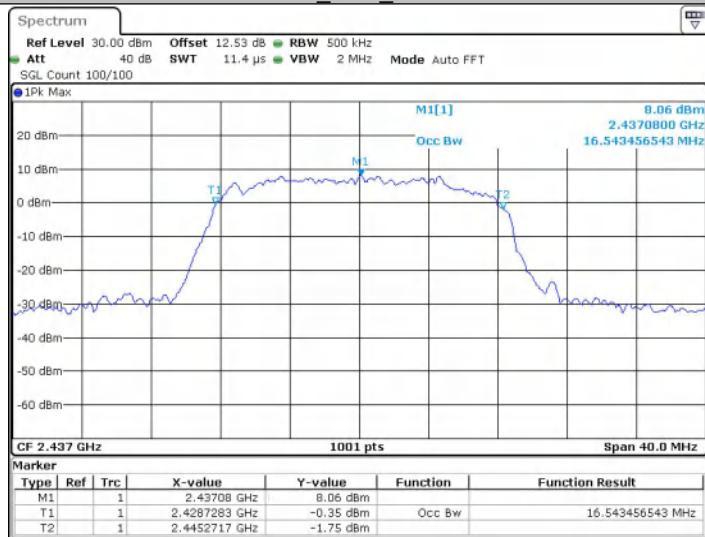




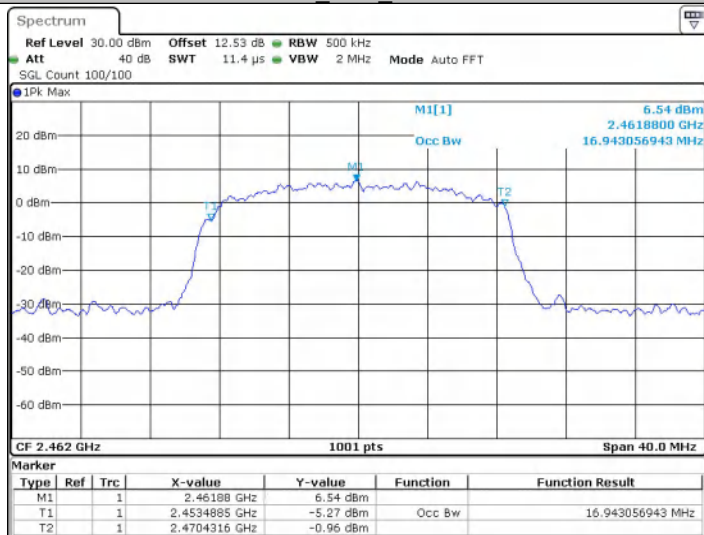
11G_Ant1_2412



11G_Ant1_2437

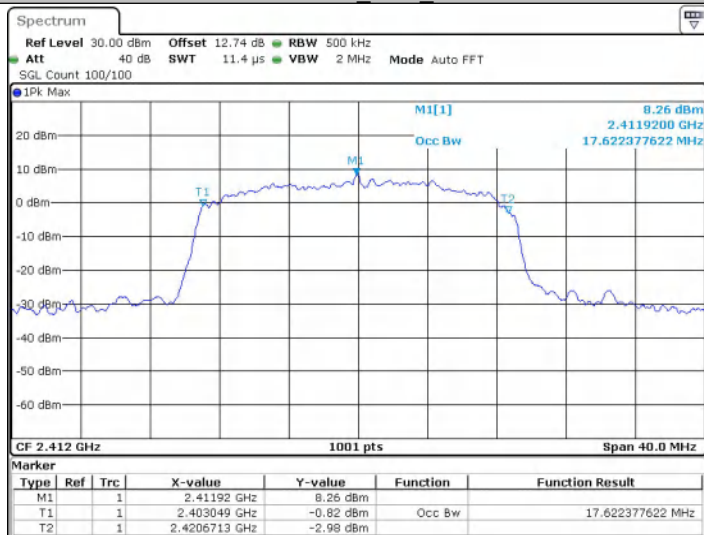


11G_Ant1_2462



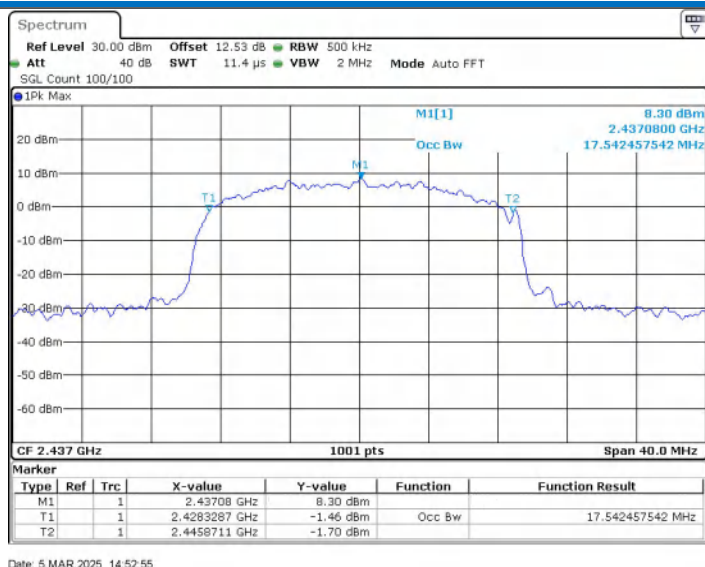
Date: 5.MAR.2025 14:05:44

11N20SISO_Ant1_2412

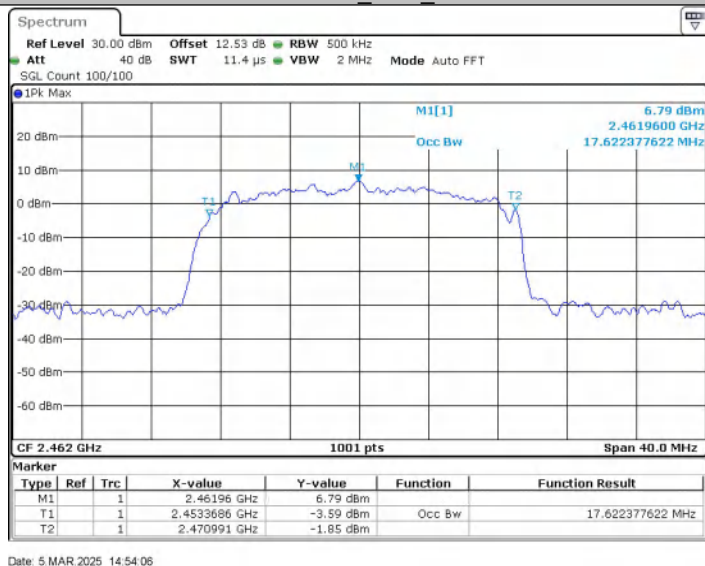


Date: 5.MAR.2025 14:51:42

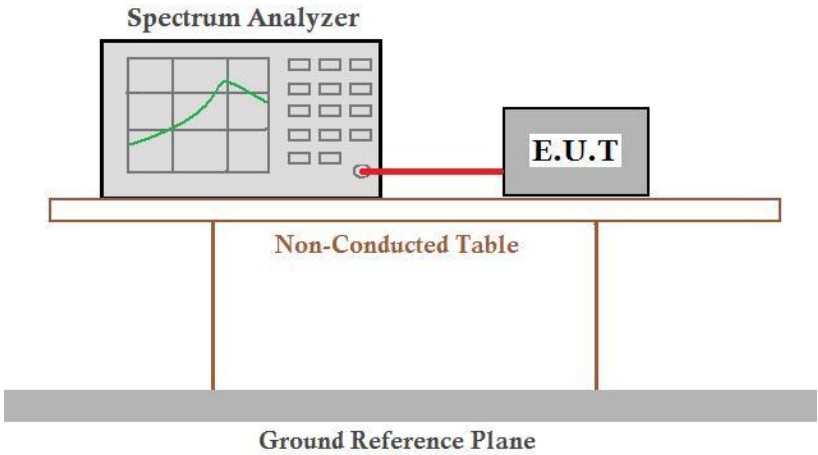
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



5.4 6dB Occupied Bandwidth

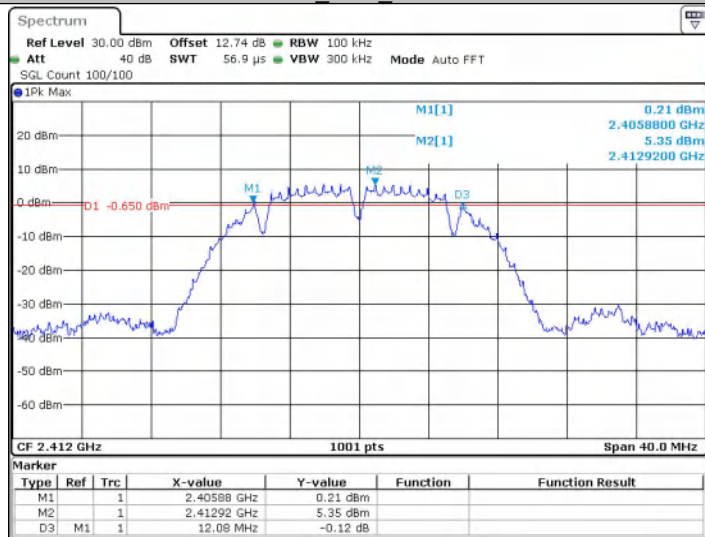
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2020
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≥ 500 kHz
Test Results:	Pass

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.08	0.5	PASS
		2437	11.08	0.5	PASS
		2462	12.08	0.5	PASS
11G	Ant1	2412	14.68	0.5	PASS
		2437	15.32	0.5	PASS
		2462	15.08	0.5	PASS
11N20SISO	Ant1	2412	13.88	0.5	PASS
		2437	13.84	0.5	PASS
		2462	15.12	0.5	PASS
11N40SISO	Ant1	2422	12.08	0.5	PASS
		2437	11.08	0.5	PASS
		2452	12.08	0.5	PASS

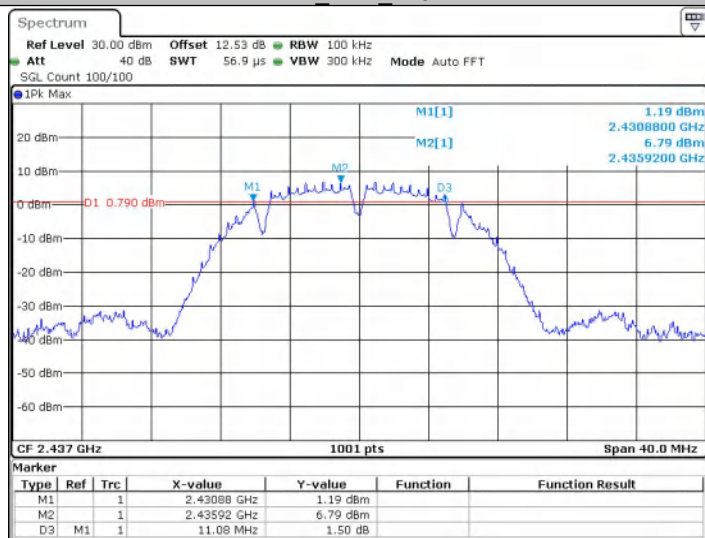
Test Graphs

11B_Ant1_2412



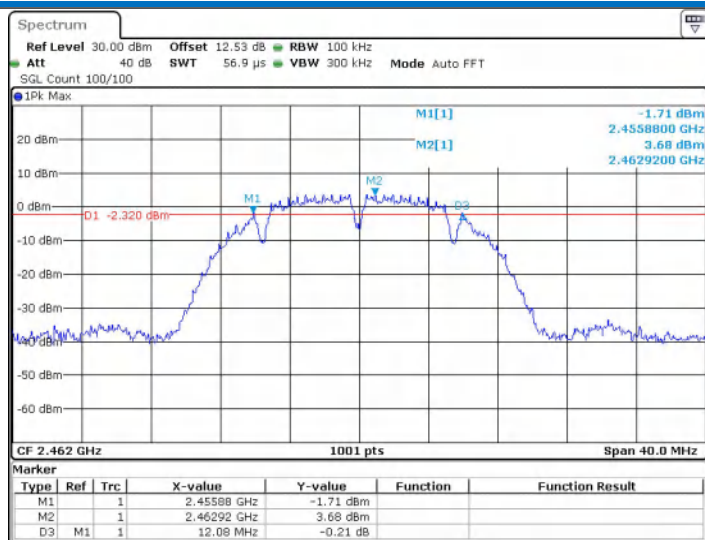
Date: 5.MAR.2025 15:00:05

11B_Ant1_2437



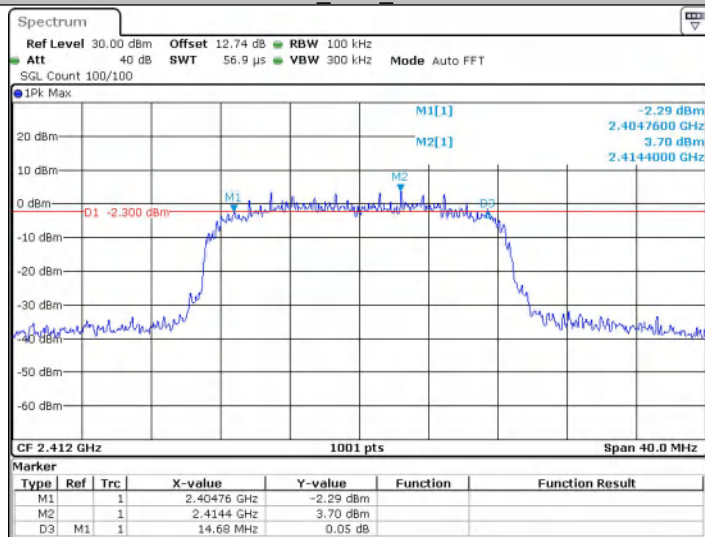
Date: 5.MAR.2025 15:01:41

11B_Ant1_2462



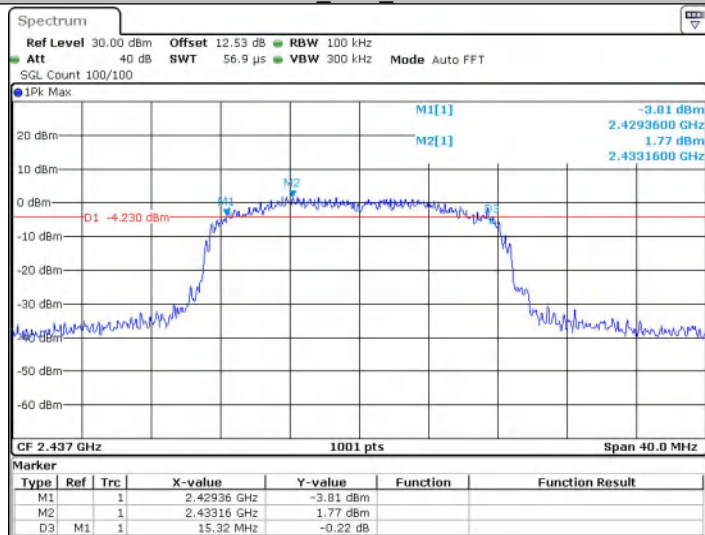
Date: 5.MAR.2025 15:04:58

11G_Ant1_2412



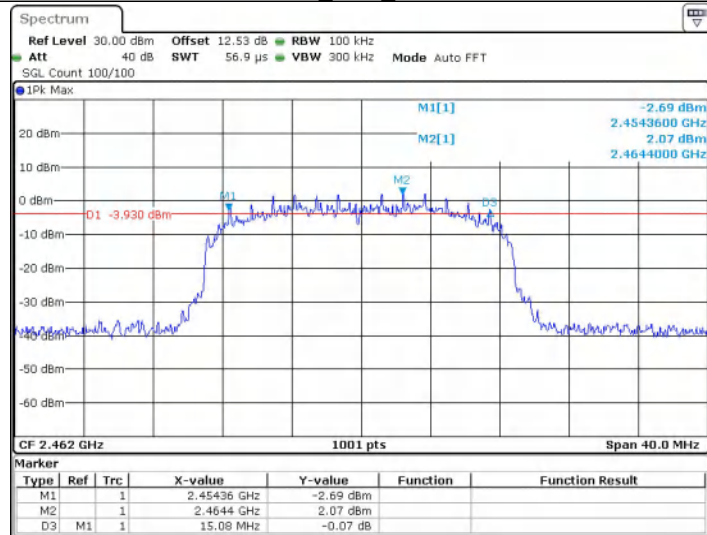
Date: 5.MAR.2025 14:01:01

11G_Ant1_2437



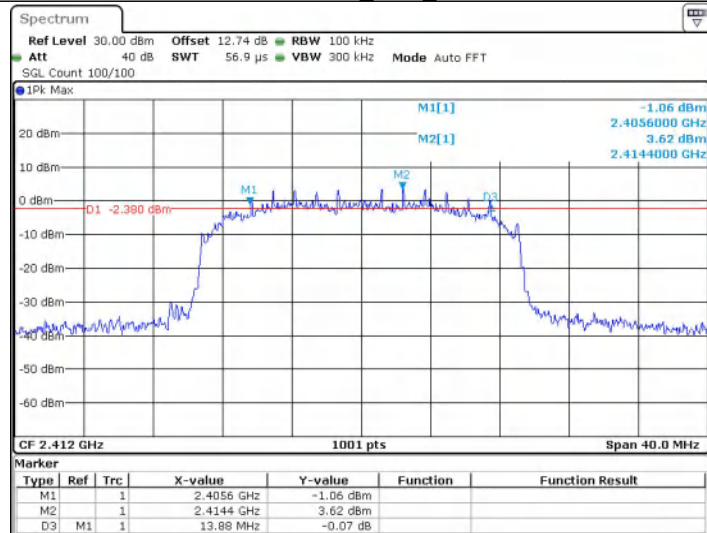
Date: 5.MAR.2025 14:02:14

11G_Ant1_2462



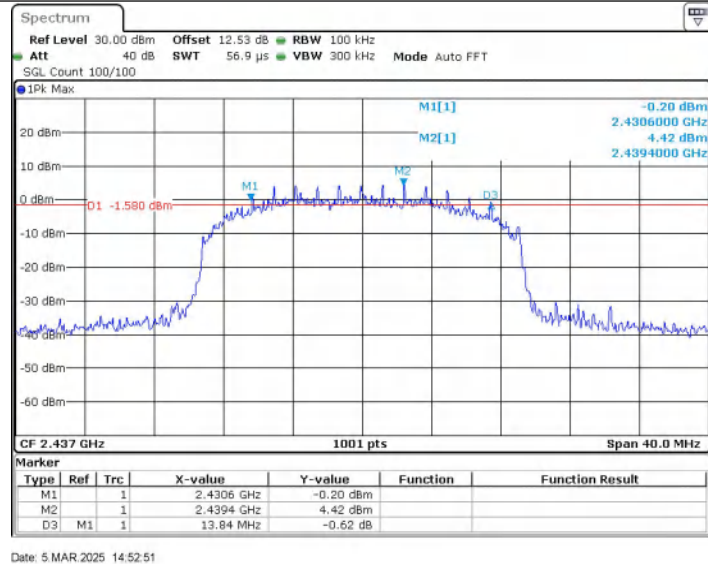
Date: 5.MAR.2025 14:05:40

11N20SISO_Ant1_2412

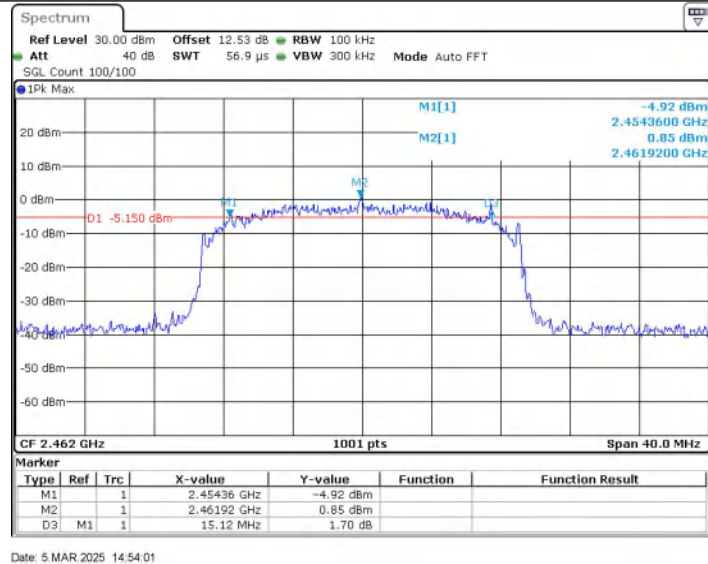


Date: 5.MAR.2025 14:51:38

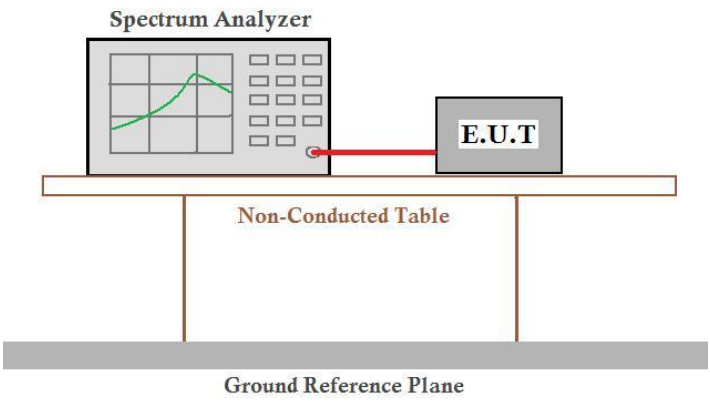
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



5.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10: 2020
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

Test Result

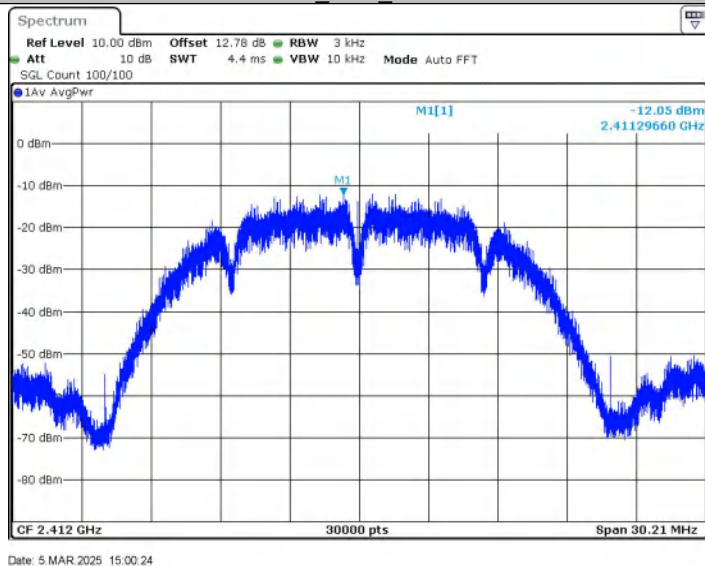
TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-12.05	≤8.00	PASS
	2437	-10.71	≤8.00	PASS
	2462	-13.01	≤8.00	PASS
11G	2412	-13.17	≤8.00	PASS
	2437	-12.64	≤8.00	PASS
	2462	-14.68	≤8.00	PASS
11N20SISO	2412	-13.15	≤8.00	PASS
	2437	-12.25	≤8.00	PASS
	2462	-14.30	≤8.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

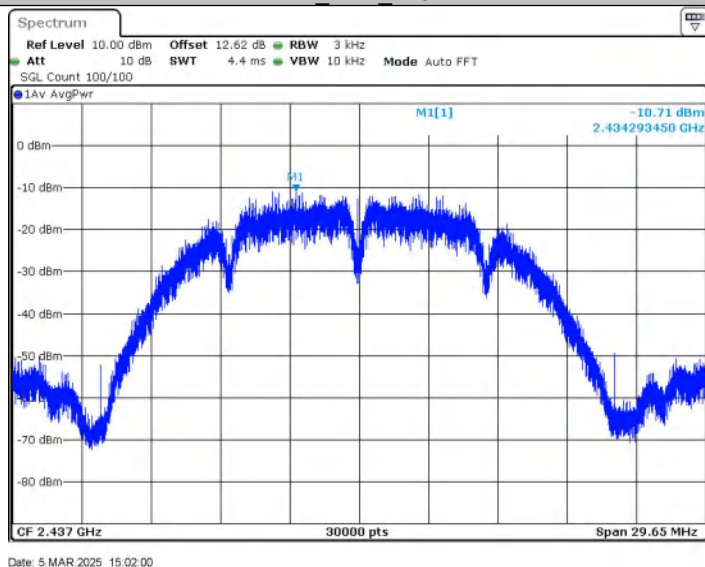
When Duty cycle >98%, D.C.F is not required.

Test Graphs

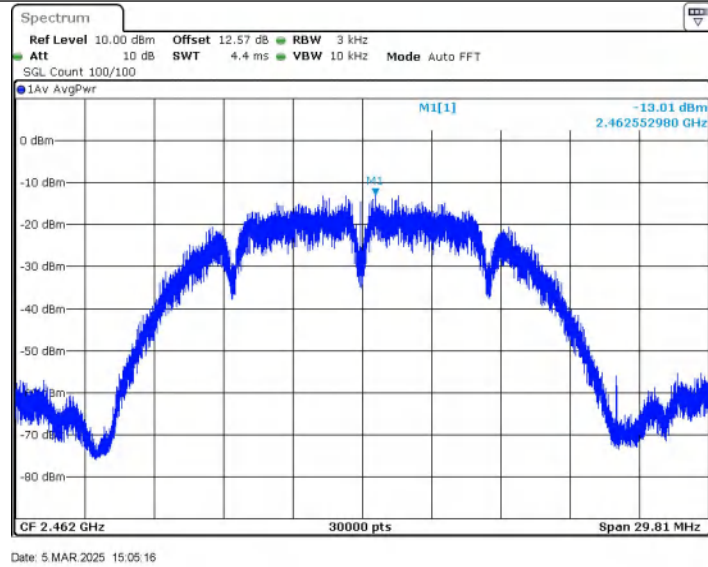
11B_Ant1_2412



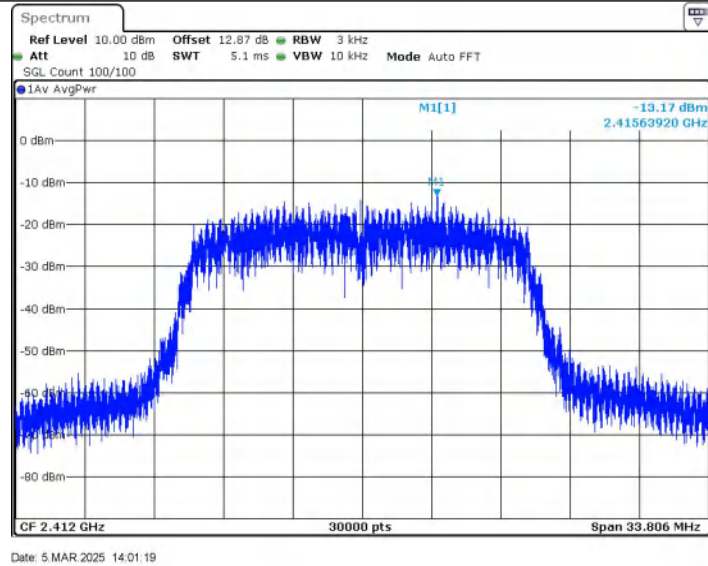
11B_Ant1_2437



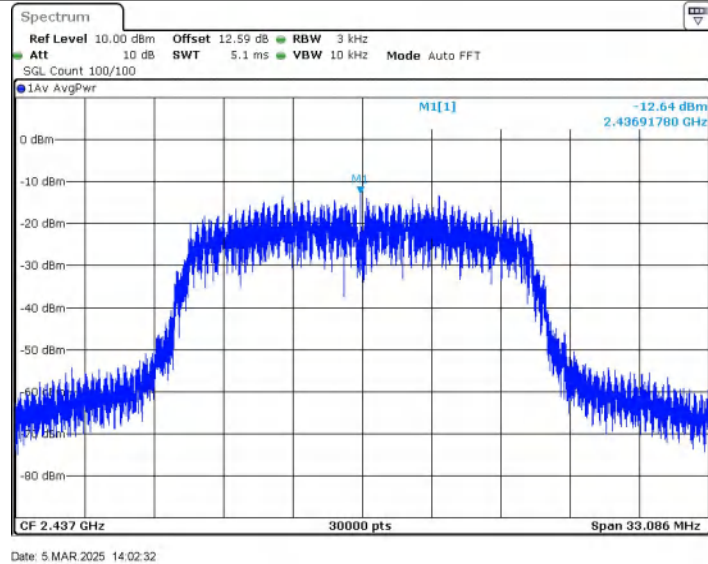
11B_Ant1_2462



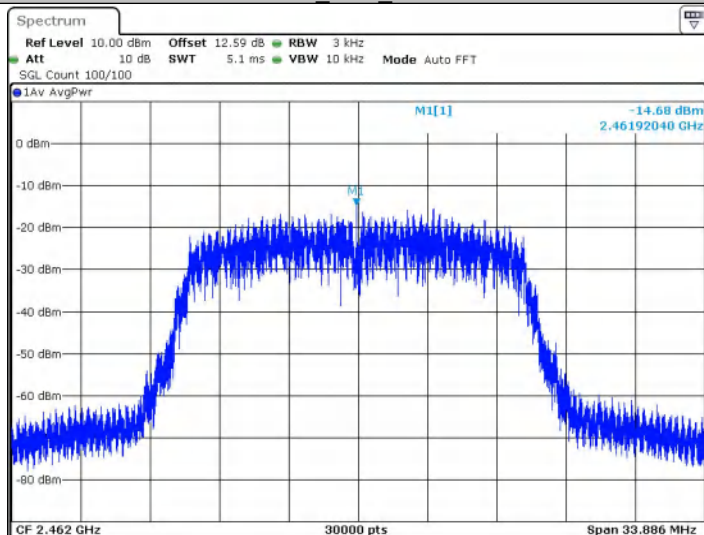
11G_Ant1_2412



11G_Ant1_2437

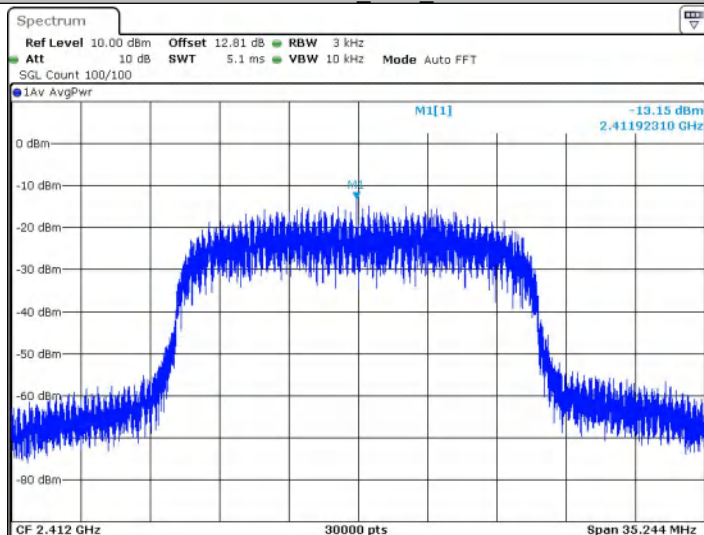


11G_Ant1_2462



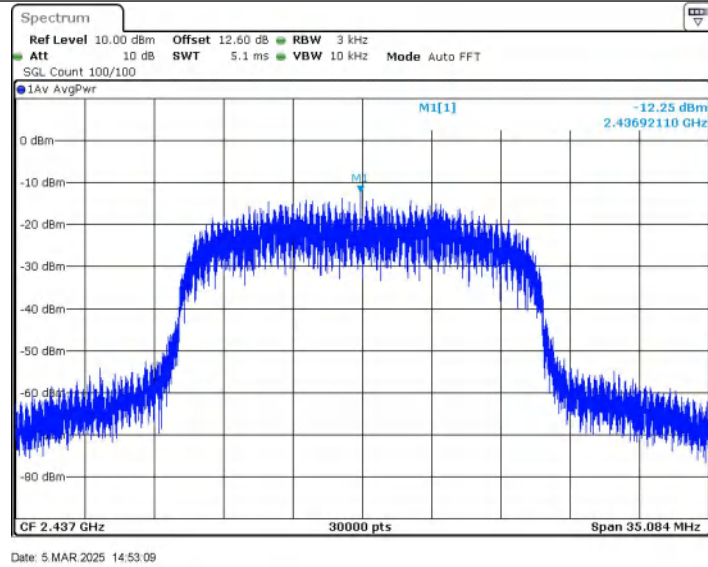
Date: 5.MAR.2025 14:05:59

11N20SISO_Ant1_2412

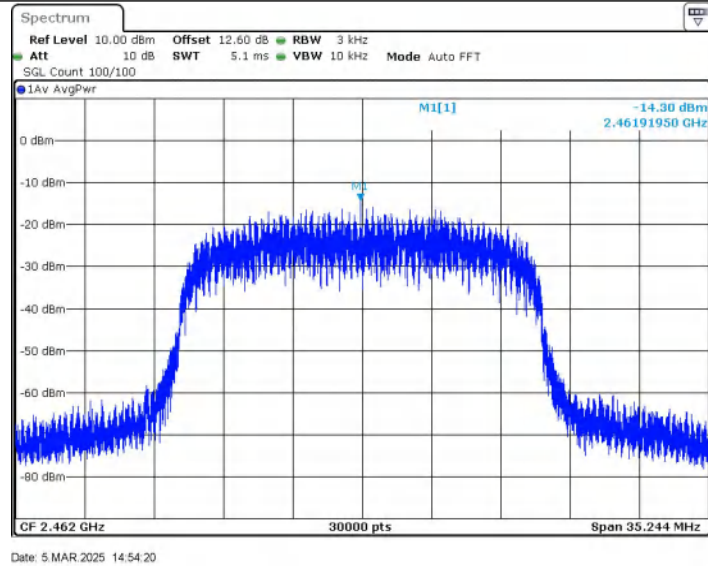


Date: 5.MAR.2025 14:51:57

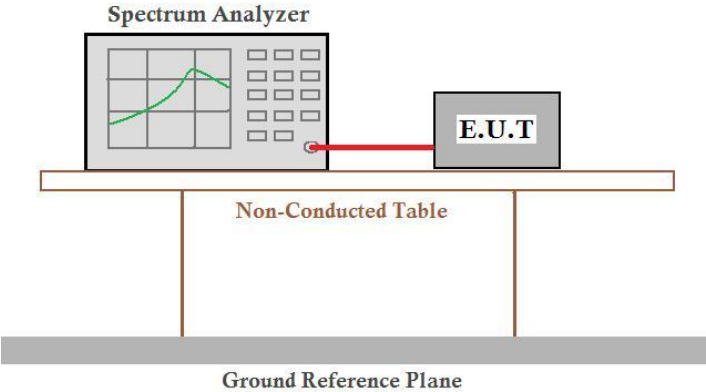
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



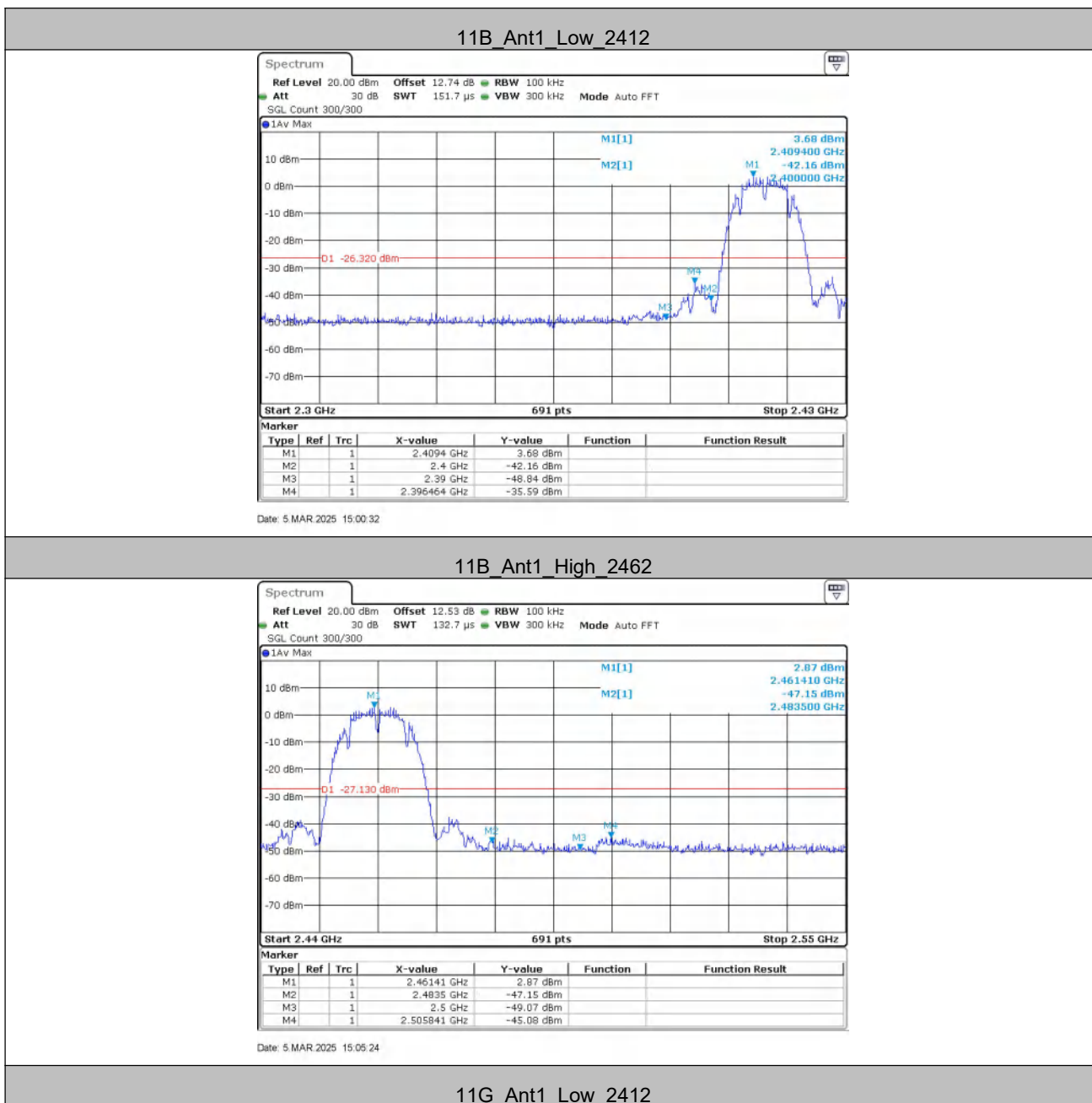
5.6 Band-edge for RF Conducted Emissions

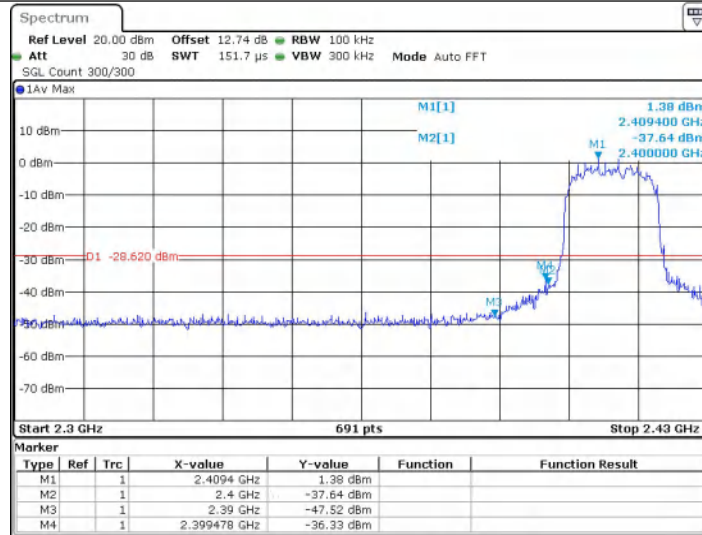
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 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 30 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	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	3.68	-35.59	≤ -26.32	PASS
	High	2462	2.87	-45.08	≤ -27.13	PASS
11G	Low	2412	1.38	-36.33	≤ -28.62	PASS
	High	2462	0.66	-44.07	≤ -29.34	PASS
11N20SISO	Low	2412	1.80	-39.82	≤ -28.2	PASS
	High	2462	1.74	-44.2	≤ -28.26	PASS

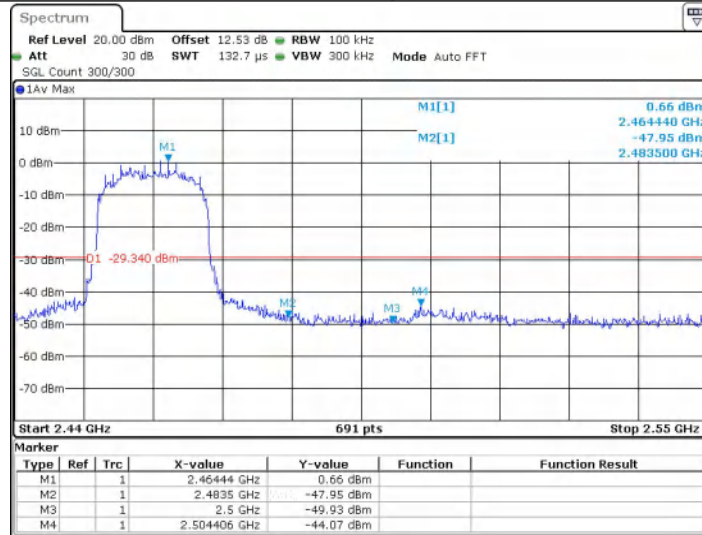
5.6.1 Test Graphs





Date: 5.MAR.2025 14:01:28

11G_Ant1_High_2462

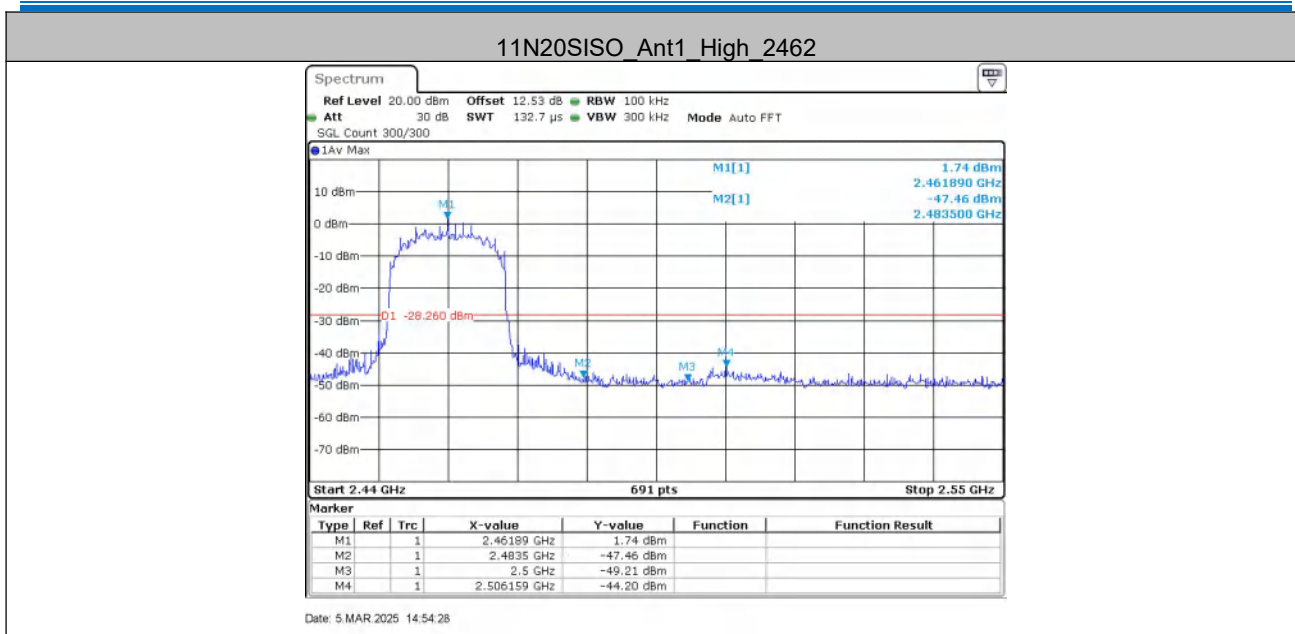


Date: 5.MAR.2025 14:06:07

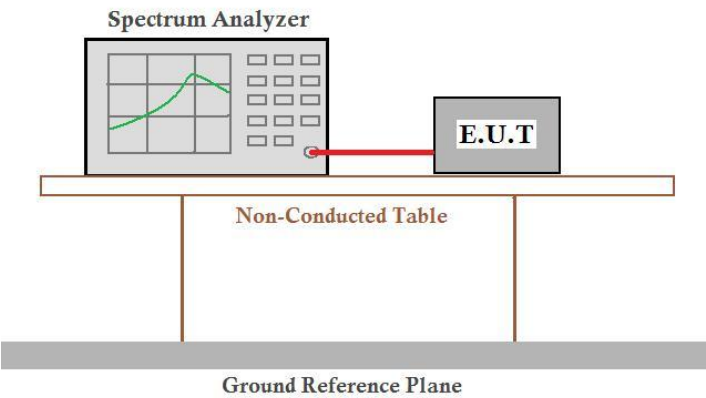
11N20SISO_Ant1_Low_2412



Date: 5.MAR.2025 14:52:05



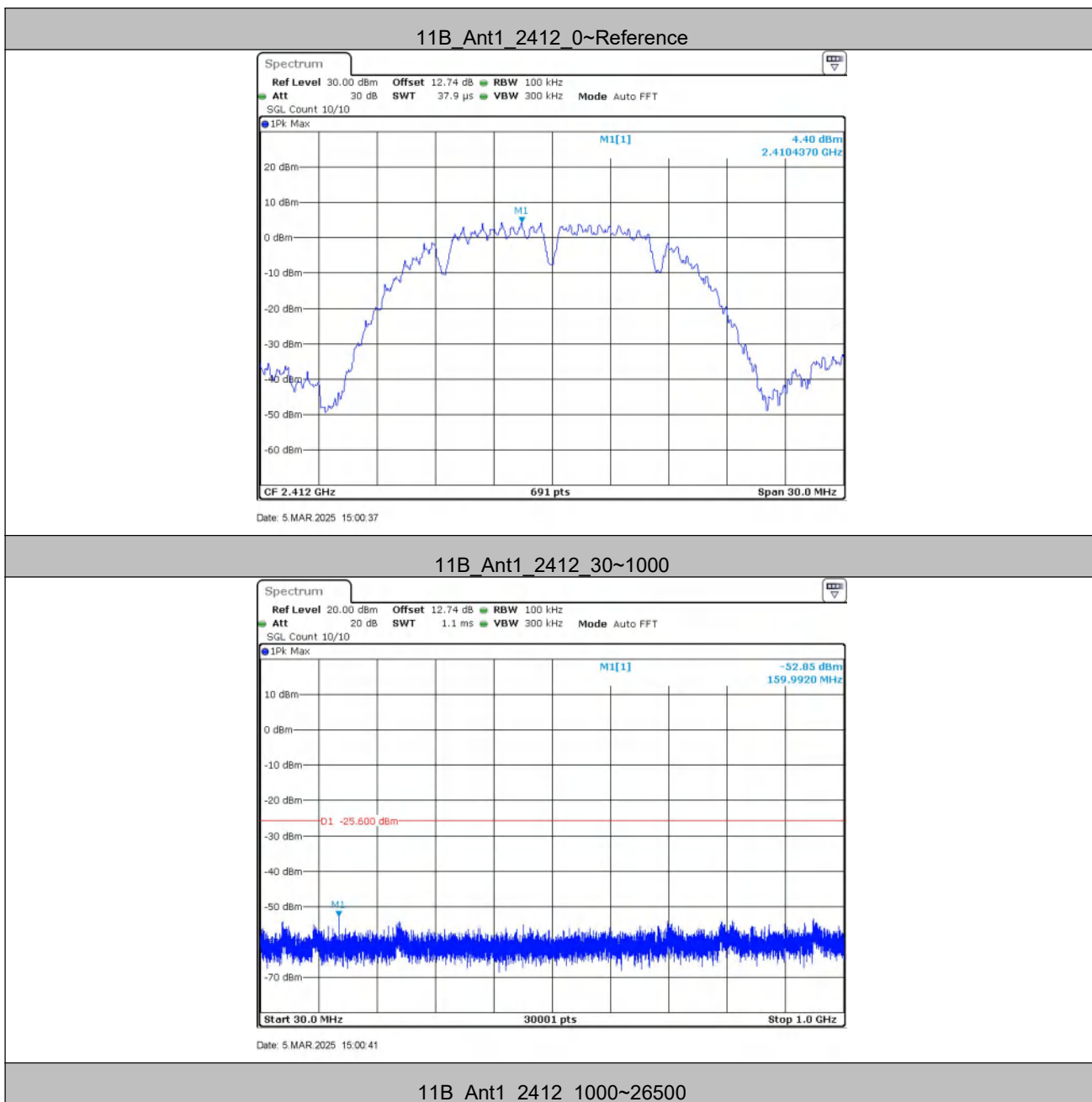
5.7 RF Conducted Spurious Emissions

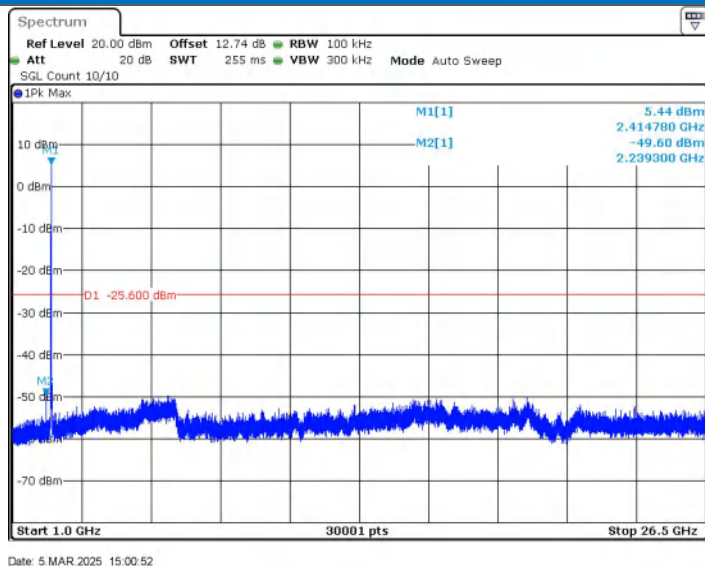
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020
Test Setup:	 <p>Offset=cable loss+ attenuation factor</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 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 30 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

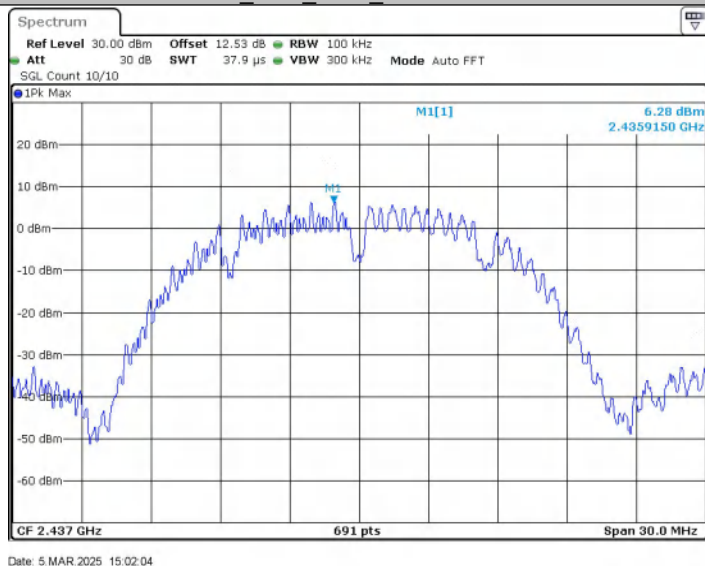
TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	4.40	4.40	---	PASS
		30~1000	4.40	-52.85	≤ -25.6	PASS
		1000~26500	4.40	-49.6	≤ -25.6	PASS
	2437	Reference	6.28	6.28	---	PASS
		30~1000	6.28	-53.33	≤ -23.72	PASS
		1000~26500	6.28	-48.96	≤ -23.72	PASS
	2462	Reference	3.63	3.63	---	PASS
		30~1000	3.63	-52.38	≤ -26.37	PASS
		1000~26500	3.63	-49.8	≤ -26.37	PASS
11G	2412	Reference	0.37	0.37	---	PASS
		30~1000	0.37	-52.16	≤ -29.63	PASS
		1000~26500	0.37	-49.53	≤ -29.63	PASS
	2437	Reference	0.50	0.50	---	PASS
		30~1000	0.50	-52.88	≤ -29.5	PASS
		1000~26500	0.50	-49.44	≤ -29.5	PASS
	2462	Reference	-1.30	-1.30	---	PASS
		30~1000	-1.30	-53.2	≤ -31.3	PASS
		1000~26500	-1.30	-49.45	≤ -31.3	PASS
11N20SISO	2412	Reference	-0.11	-0.11	---	PASS
		30~1000	-0.11	-52.92	≤ -30.11	PASS
		1000~26500	-0.11	-49.68	≤ -30.11	PASS
	2437	Reference	0.62	0.62	---	PASS
		30~1000	0.62	-53.37	≤ -29.38	PASS
		1000~26500	0.62	-47.6	≤ -29.38	PASS
	2462	Reference	-0.10	-0.10	---	PASS
		30~1000	-0.10	-53.01	≤ -30.1	PASS
		1000~26500	-0.10	-49.89	≤ -30.1	PASS

Test Graphs

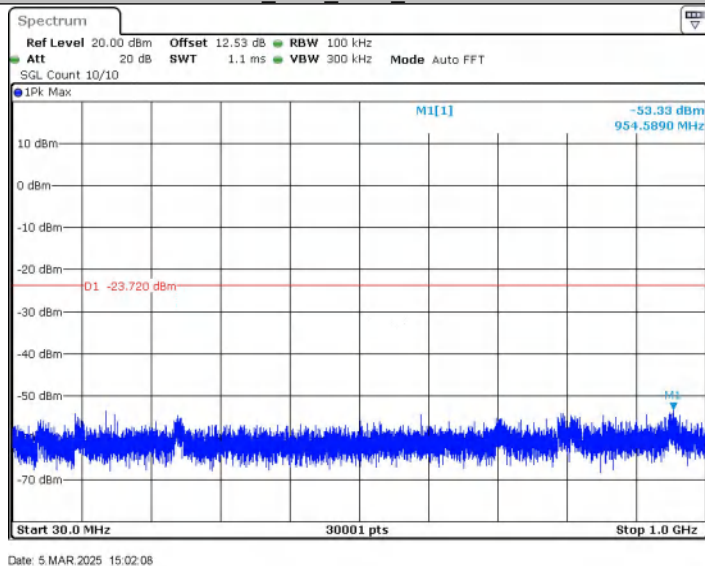




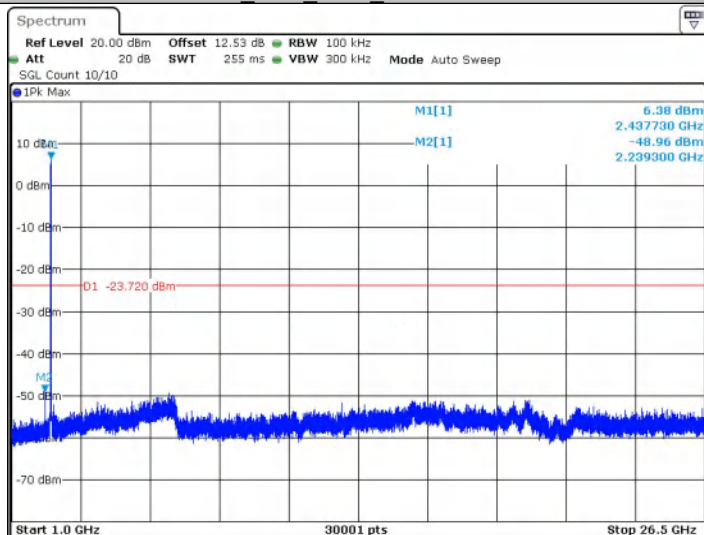
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

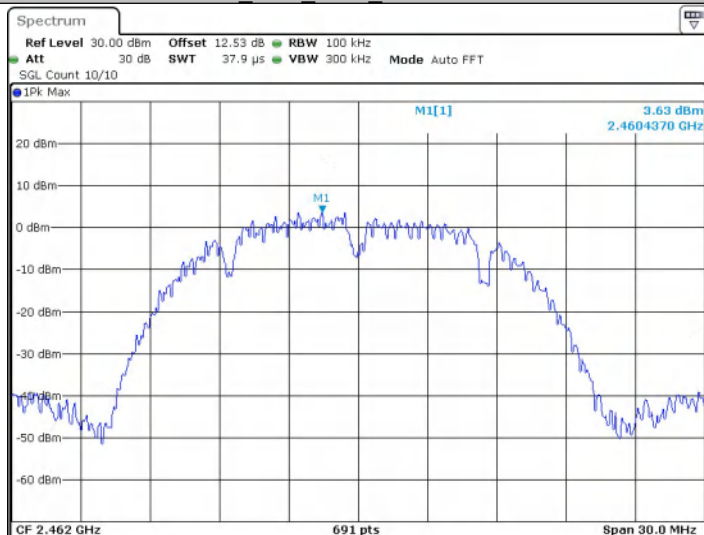


11B_Ant1_2437_1000~26500



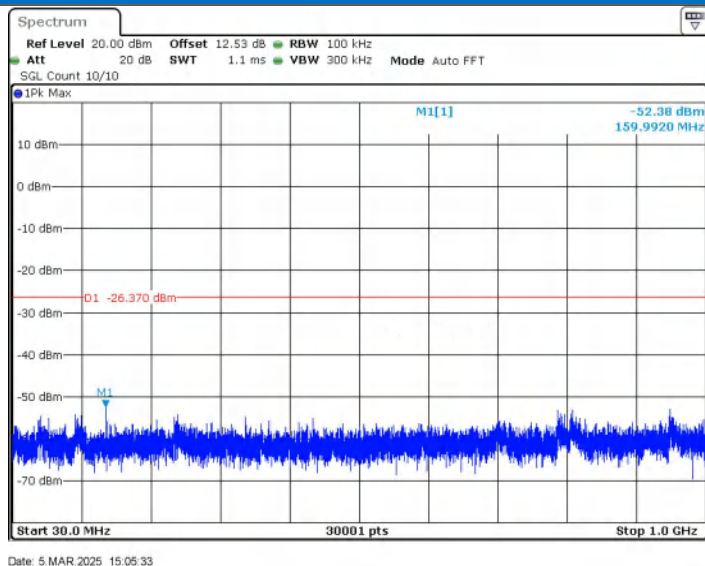
Date: 5.MAR.2025 15:02:19

11B_Ant1_2462_0~Reference

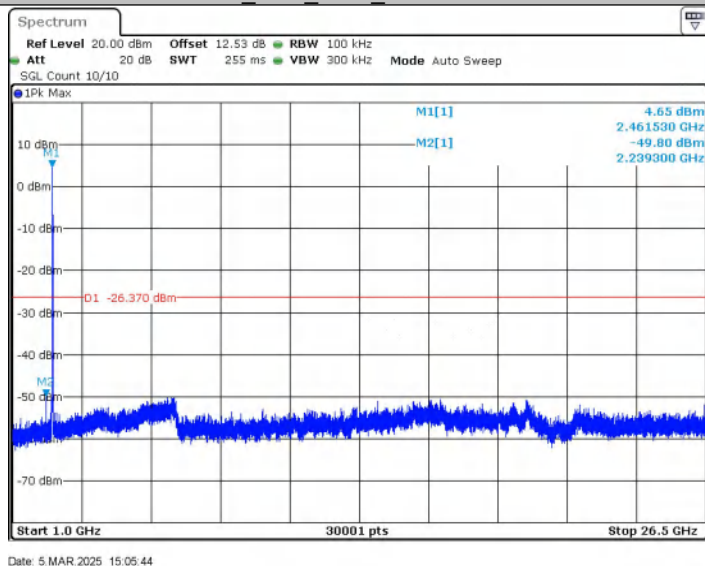


Date: 5.MAR.2025 15:05:29

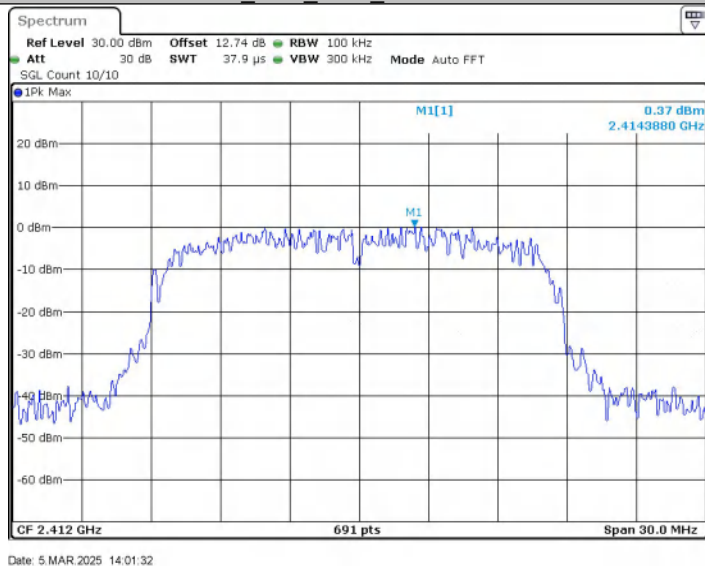
11B_Ant1_2462_30~1000



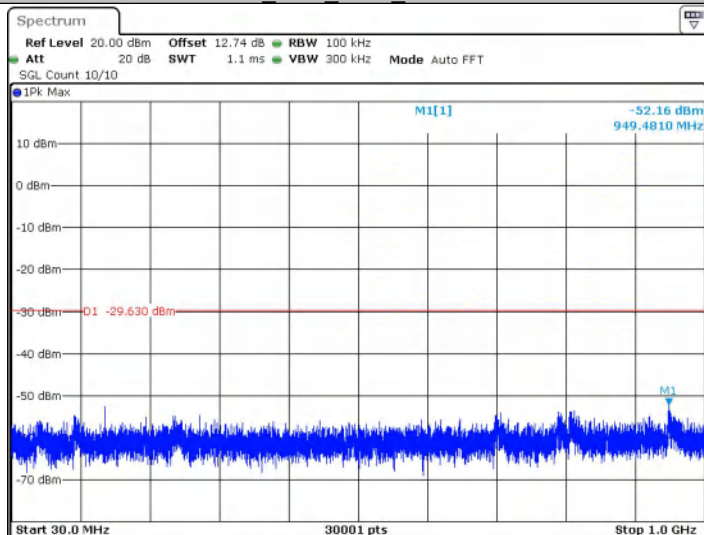
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

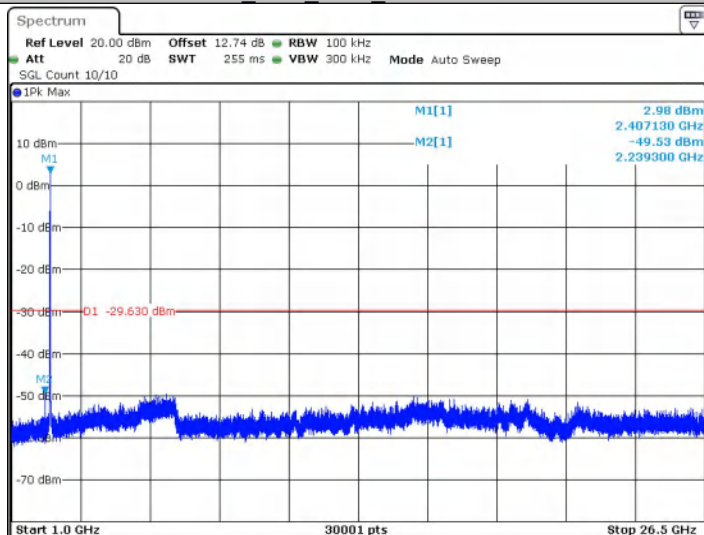


11G_Ant1_2412_30~1000



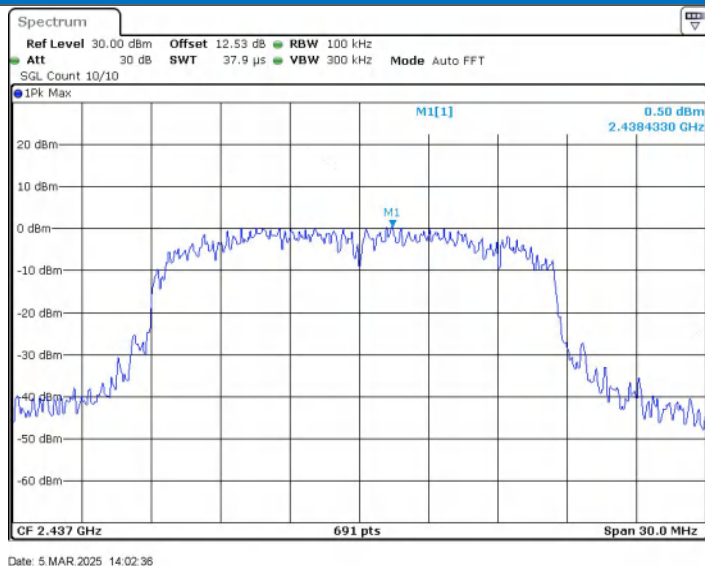
Date: 5.MAR.2025 14:01:36

11G_Ant1_2412_1000~26500

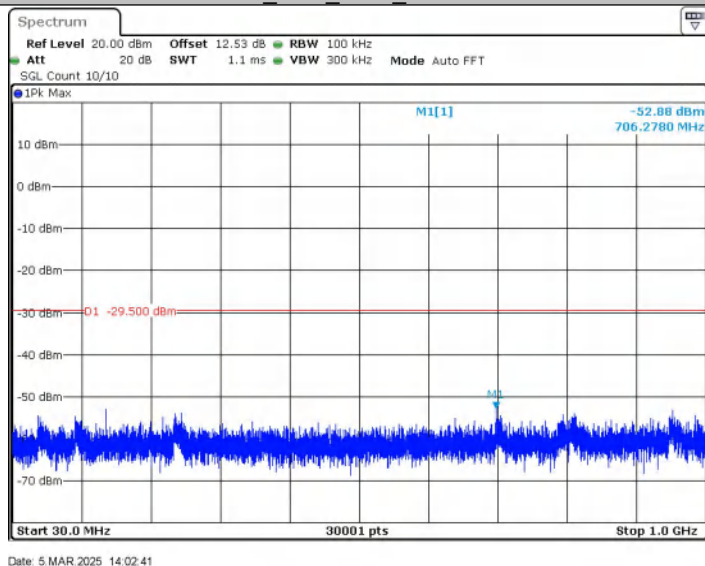


Date: 5.MAR.2025 14:01:47

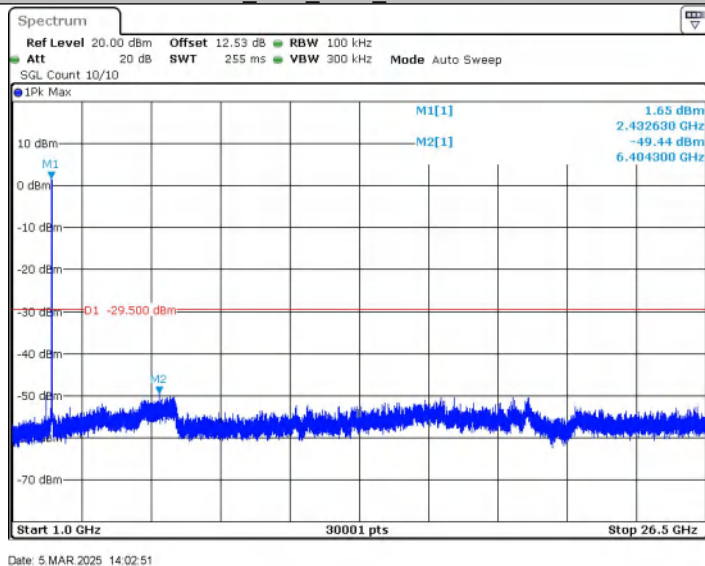
11G_Ant1_2437_0~Reference



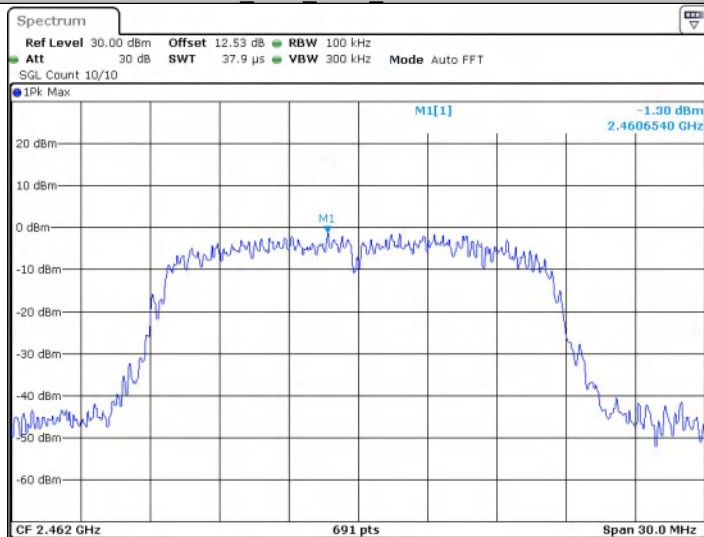
11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

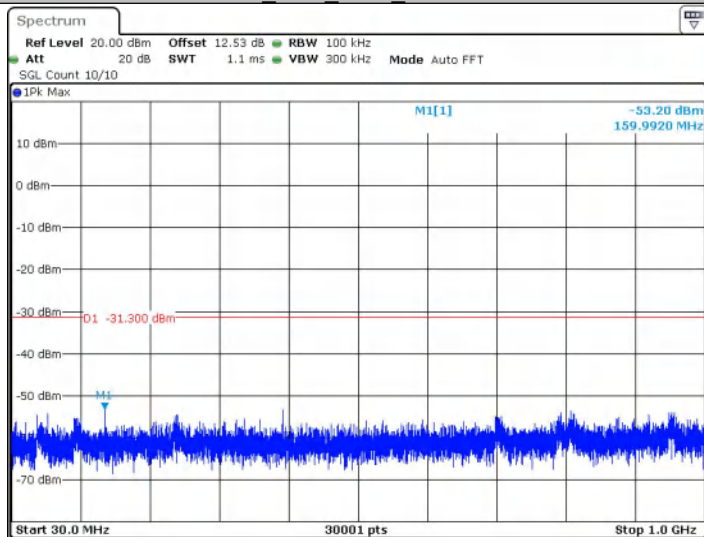


11G_Ant1_2462_0~Reference



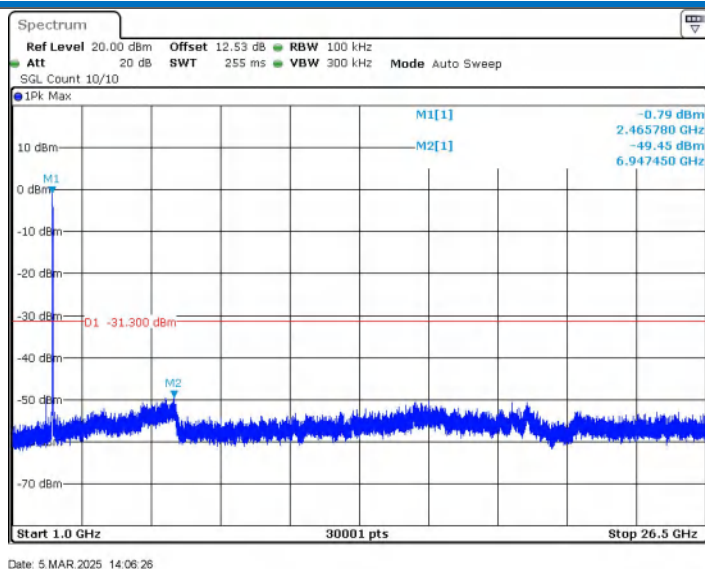
Date: 5.MAR.2025 14:06:11

11G_Ant1_2462_30~1000

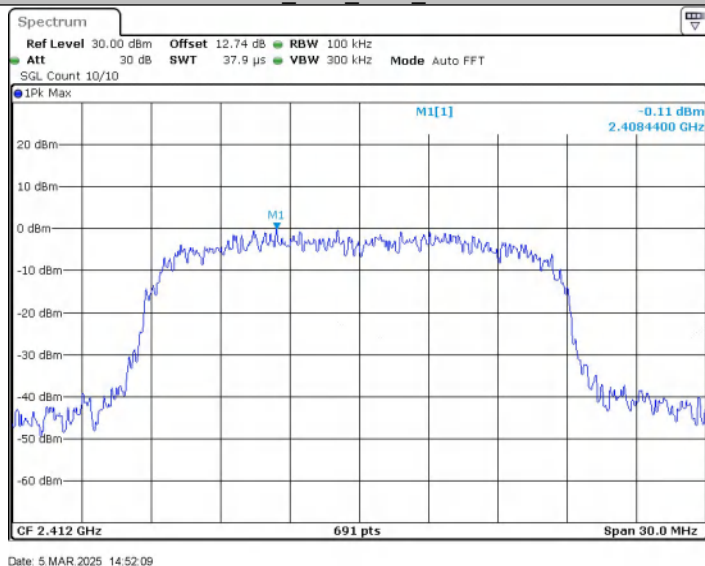


Date: 5.MAR.2025 14:06:16

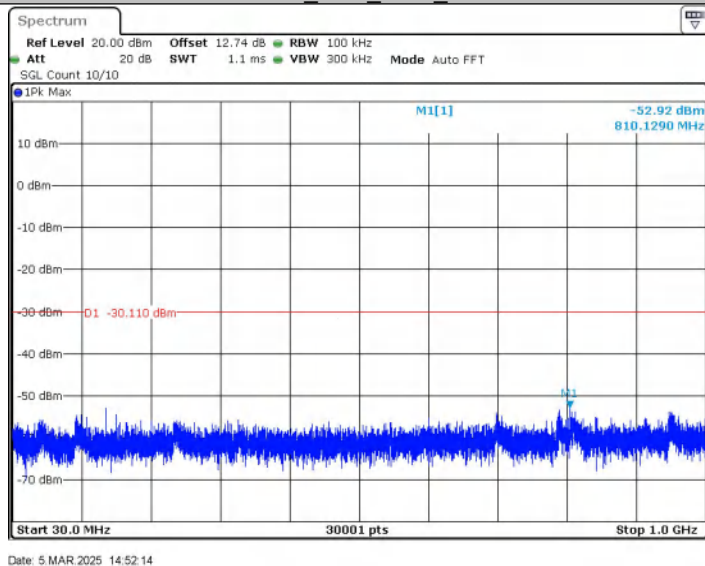
11G_Ant1_2462_1000~26500



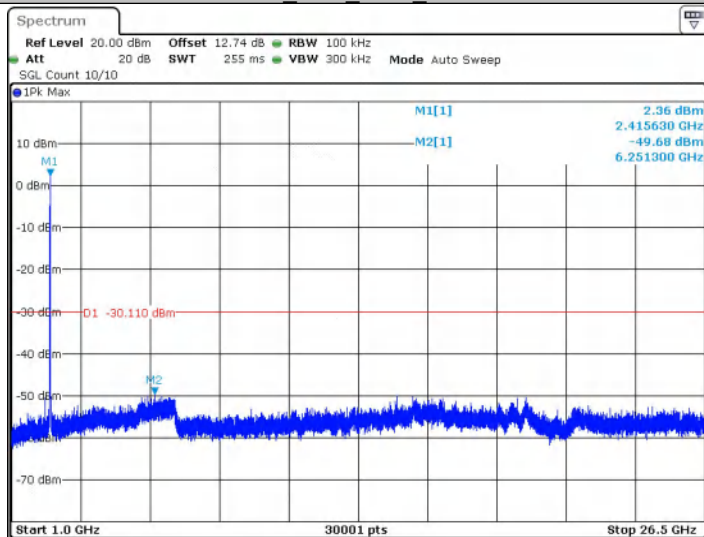
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

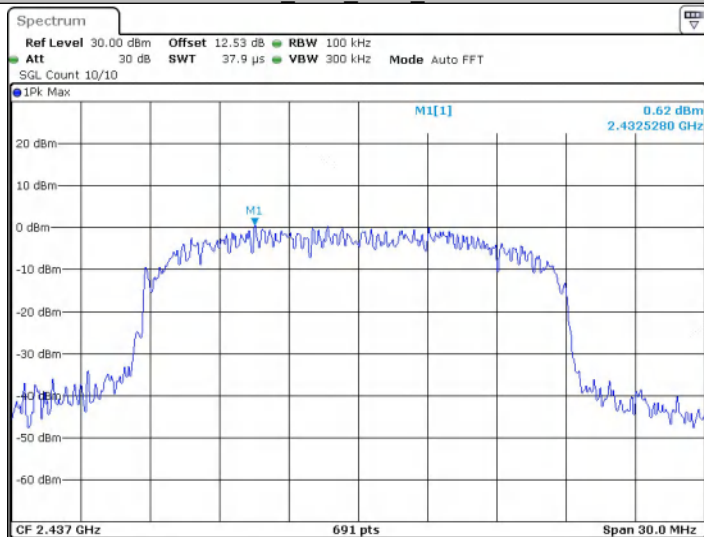


11N20SISO_Ant1_2412_1000~26500



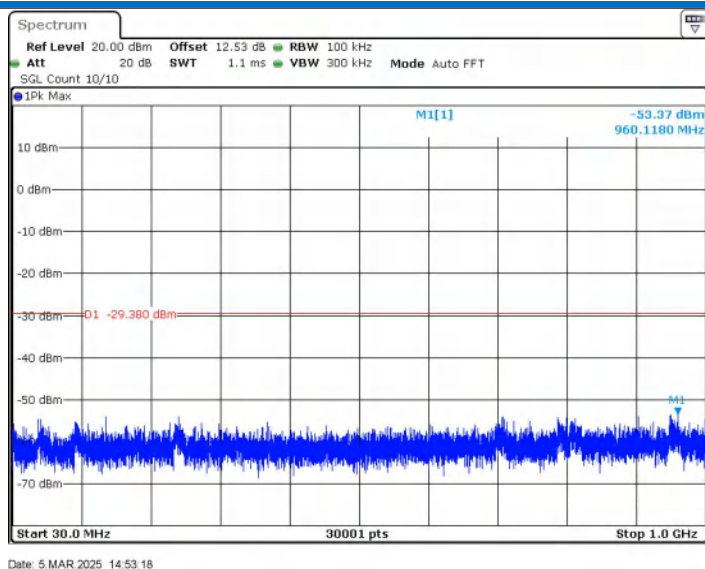
Date: 5.MAR.2025 14:52:24

11N20SISO_Ant1_2437_0~Reference

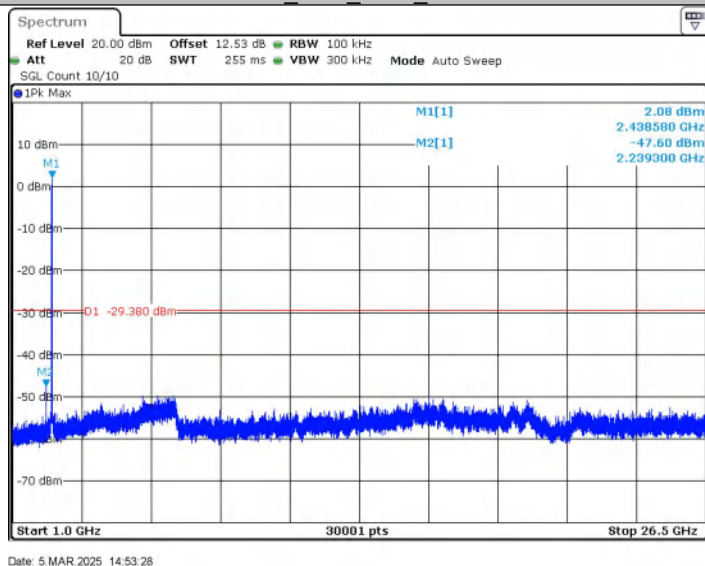


Date: 5.MAR.2025 14:53:13

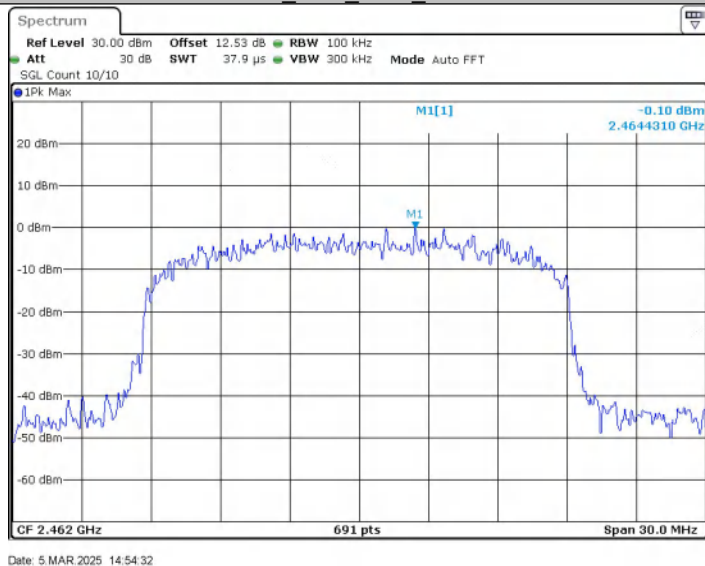
11N20SISO_Ant1_2437_30~1000

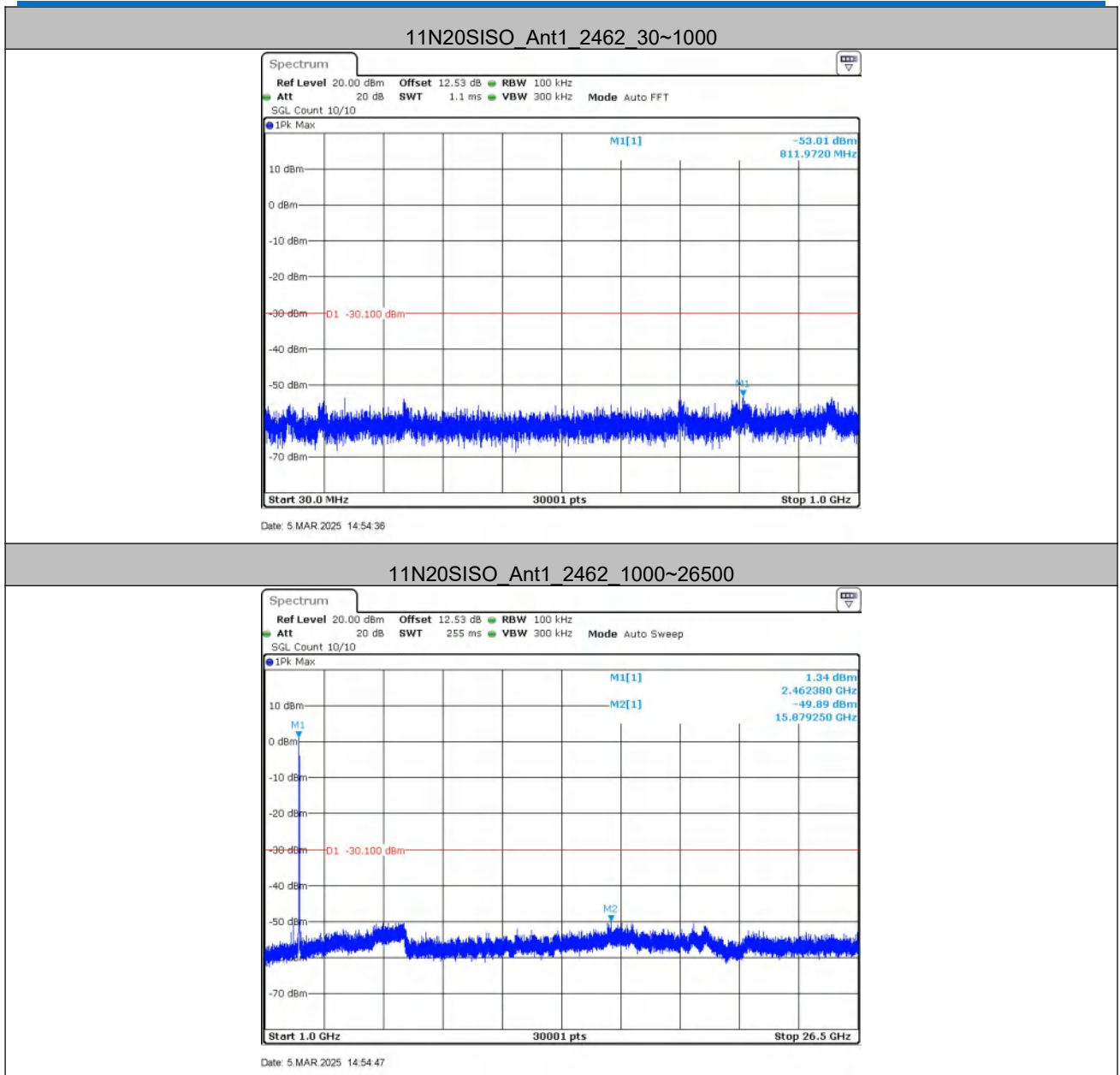


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference





Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

5.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2020				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

Test Setup:

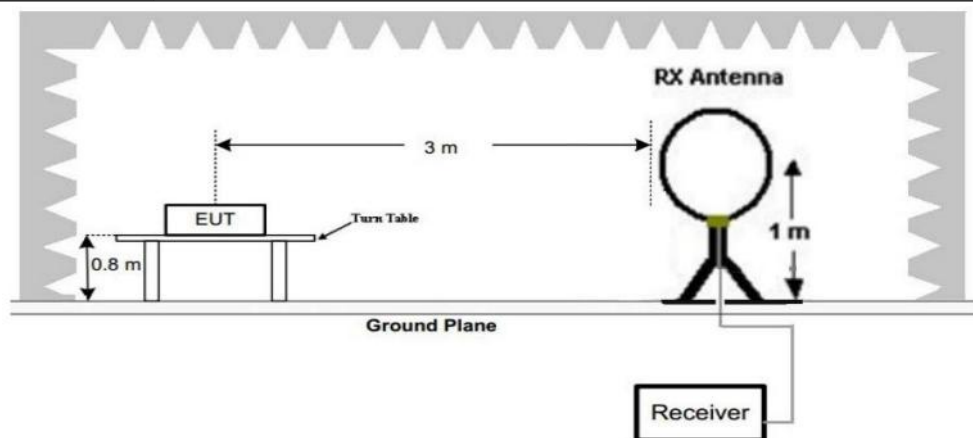


Figure 1. Below 30MHz

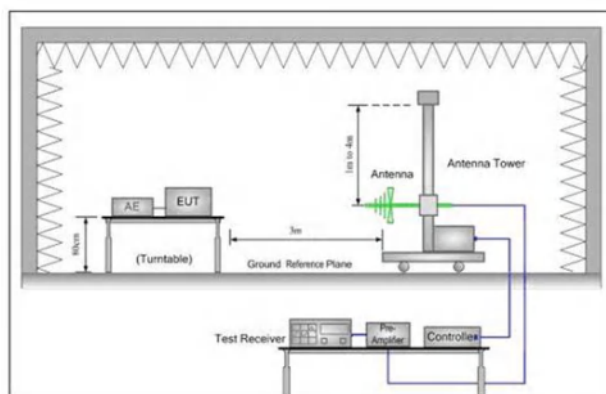


Figure 2. 30MHz to 1GHz

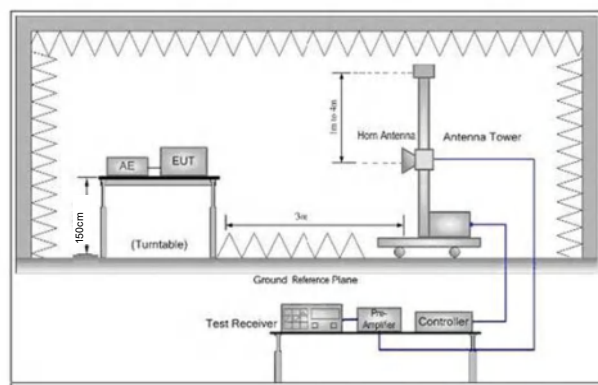


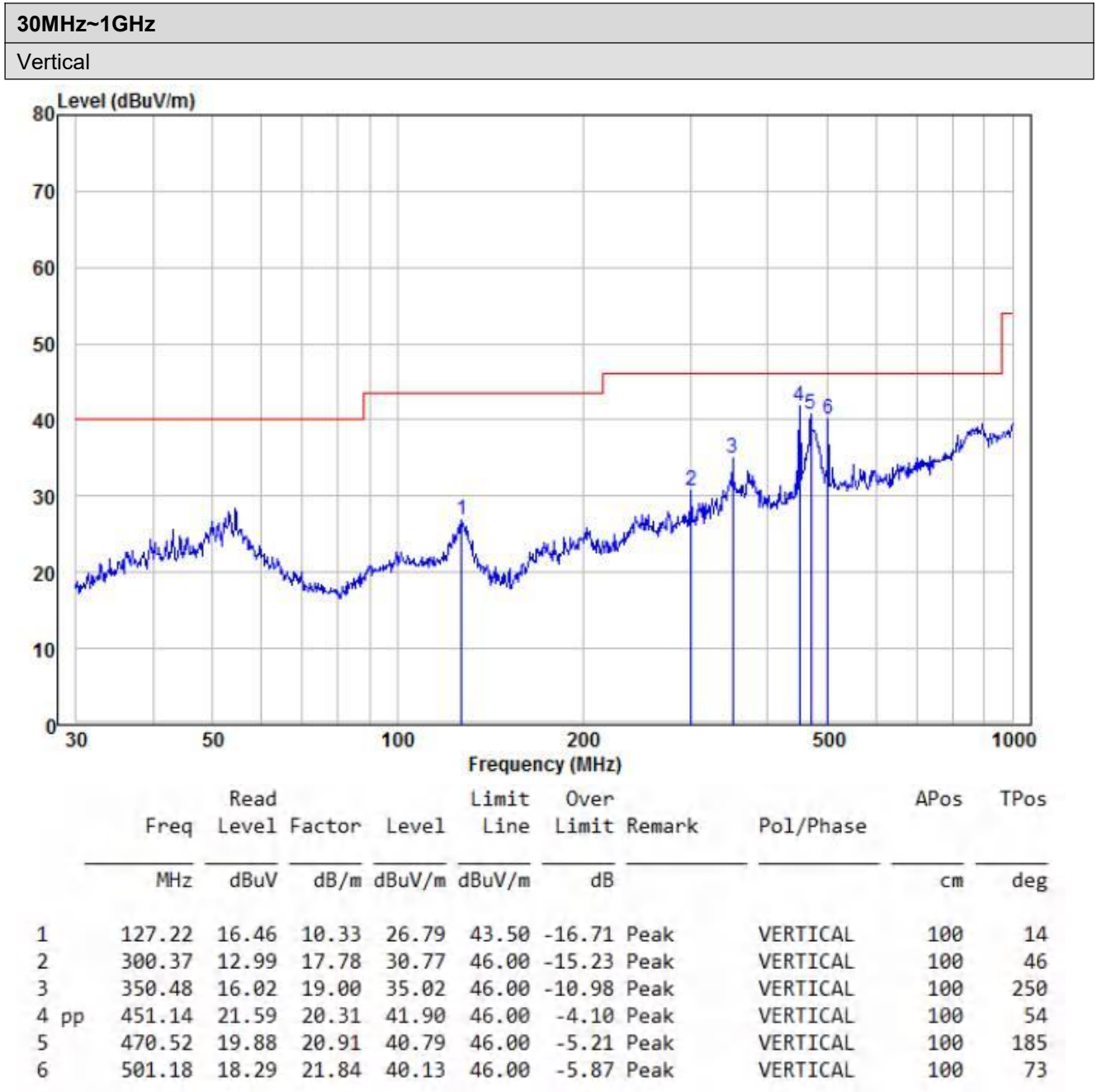
Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height 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.

	<p>d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case .</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

5.8.1 Radiated emission below 1GHz



Remark:

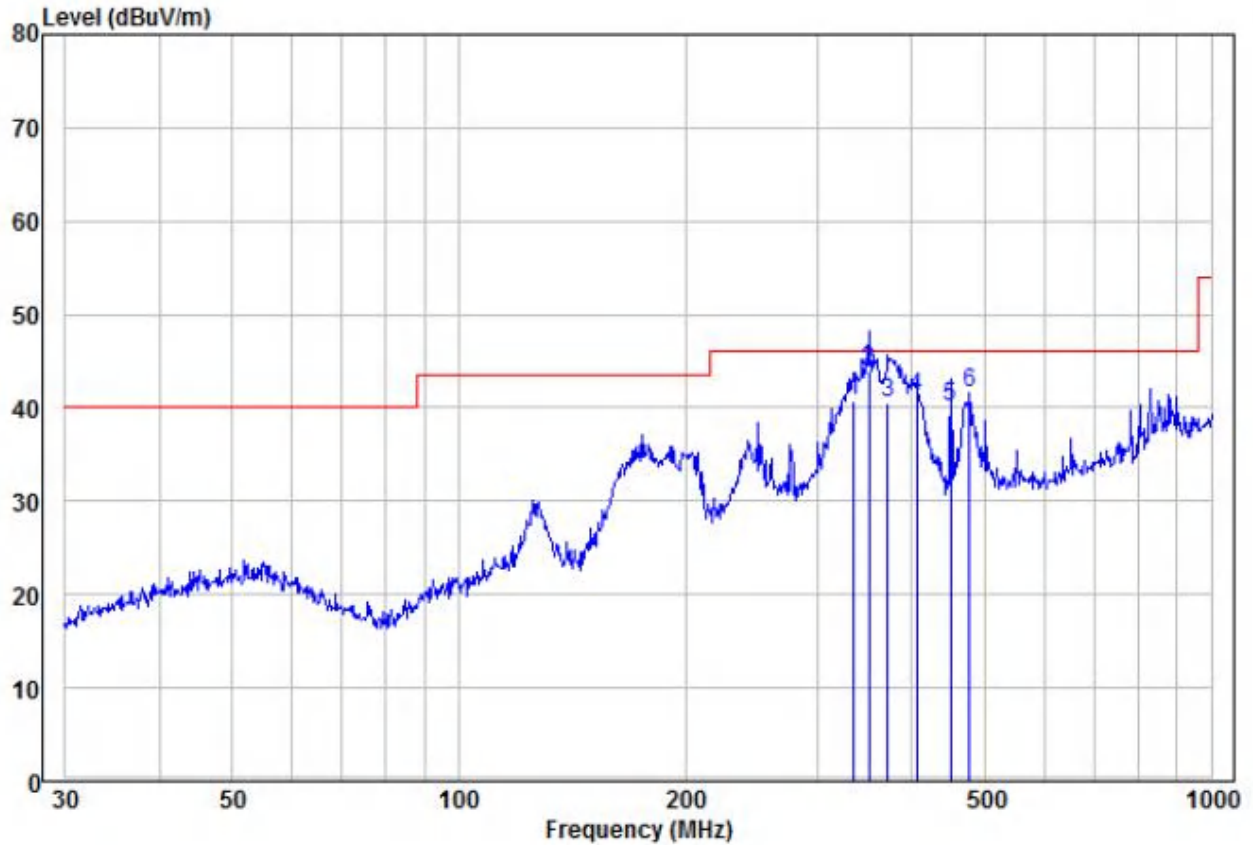
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Horizontal



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	334.86	22.03	18.62	40.65	46.00	-5.35	QP	HORIZONTAL	100	184
2 pp	350.48	25.00	19.00	44.00	46.00	-2.00	QP	HORIZONTAL	100	192
3	372.00	21.49	19.12	40.61	46.00	-5.39	QP	HORIZONTAL	100	163
4	406.09	21.86	19.32	41.18	46.00	-4.82	QP	HORIZONTAL	100	77
5	451.14	19.73	20.31	40.04	46.00	-5.96	QP	HORIZONTAL	100	174
6 pk	477.17	20.44	21.12	41.56	46.00	-4.44	Peak	HORIZONTAL	100	16

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

5.8.2 Transmitter emission above 1GHz

Test mode:		802.11b(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824.000	53.80	-4.26	49.54	74	-24.46	peak	H
4824.000	37.20	-4.26	32.94	54	-21.06	AVG	H
7236.000	51.00	1.18	52.18	74	-21.82	peak	H
7236.000	37.11	1.18	38.29	54	-15.71	AVG	H
4824.000	55.89	-4.26	51.63	74	-22.37	peak	V
4824.000	39.66	-4.26	35.40	54	-18.60	AVG	V
7236.000	50.79	1.18	51.97	74	-22.03	peak	V
7236.000	35.92	1.18	37.10	54	-16.90	AVG	V

Test mode:		802.11b(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874.000	52.61	-4.12	48.49	74	-25.51	peak	H
4874.000	37.69	-4.12	33.57	54	-20.43	AVG	H
7311.000	48.68	1.46	50.14	74	-23.86	peak	H
7311.000	36.51	1.46	37.97	54	-16.03	AVG	H
4874.000	52.91	-4.12	48.79	74	-25.21	peak	V
4874.000	36.81	-4.12	32.69	54	-21.31	AVG	V
7311.000	49.09	1.46	50.55	74	-23.45	peak	V
7311.000	36.39	1.46	37.85	54	-16.15	AVG	V

Test mode:		802.11b(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924.000	51.53	-4.03	47.50	74	-26.50	peak	H
4924.000	37.82	-4.03	33.79	54	-20.21	AVG	H
7386.000	50.46	1.66	52.12	74	-21.88	peak	H
7386.000	37.13	1.66	38.79	54	-15.21	AVG	H
4924.000	53.86	-4.03	49.83	74	-24.17	peak	V
4924.000	37.86	-4.03	33.83	54	-20.17	AVG	V
7386.000	49.56	1.66	51.22	74	-22.78	peak	V
7386.000	37.47	1.66	39.13	54	-14.87	AVG	V

Remark:

- 1) The 1Mbps of rate of 802.11b is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11g(6Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824.000	53.78	-4.26	49.52	74	-24.48	peak	H
4824.000	37.95	-4.26	33.69	54	-20.31	AVG	H
7236.000	50.40	1.18	51.58	74	-22.42	peak	H
7236.000	38.72	1.18	39.90	54	-14.10	AVG	H
4824.000	54.27	-4.26	50.01	74	-23.99	peak	V
4824.000	39.93	-4.26	35.67	54	-18.33	AVG	V
7236.000	50.54	1.18	51.72	74	-22.28	peak	V
7236.000	36.75	1.18	37.93	54	-16.07	AVG	V

Test mode:		802.11g(6Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874.000	53.13	-4.12	49.01	74	-24.99	peak	H
4874.000	36.87	-4.12	32.75	54	-21.25	AVG	H
7311.000	48.29	1.46	49.75	74	-24.25	peak	H
7311.000	36.62	1.46	38.08	54	-15.92	AVG	H
4874.000	52.55	-4.12	48.43	74	-25.57	peak	V
4874.000	36.49	-4.12	32.37	54	-21.63	AVG	V
7311.000	48.50	1.46	49.96	74	-24.04	peak	V
7311.000	36.31	1.46	37.77	54	-16.23	AVG	V

Test mode:		802.11g(6Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924.000	51.67	-4.03	47.64	74	-26.36	peak	H
4924.000	38.35	-4.03	34.32	54	-19.68	AVG	H
7386.000	50.08	1.66	51.74	74	-22.26	peak	H
7386.000	37.34	1.66	39.00	54	-15.00	AVG	H
4924.000	54.04	-4.03	50.01	74	-23.99	peak	V
4924.000	38.56	-4.03	34.53	54	-19.47	AVG	V
7386.000	50.50	1.66	52.16	74	-21.84	peak	V
7386.000	36.20	1.66	37.86	54	-16.14	AVG	V

Remark:

- 1) The 6Mbps of rate of 802.11g is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11n20(mcs0)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824.000	53.01	-4.26	48.75	74	-25.25	peak	H
4824.000	36.89	-4.26	32.63	54	-21.37	AVG	H
7236.000	51.83	1.18	53.01	74	-20.99	peak	H
7236.000	38.45	1.18	39.63	54	-14.37	AVG	H
4824.000	54.53	-4.26	50.27	74	-23.73	peak	V
4824.000	38.39	-4.26	34.13	54	-19.87	AVG	V
7236.000	50.55	1.18	51.73	74	-22.27	peak	V
7236.000	35.51	1.18	36.69	54	-17.31	AVG	V

Test mode:		802.11n20(mcs0)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874.000	52.81	-4.12	48.69	74	-25.31	peak	H
4874.000	37.68	-4.12	33.56	54	-20.44	AVG	H
7311.000	48.90	1.46	50.36	74	-23.64	peak	H
7311.000	35.28	1.46	36.74	54	-17.26	AVG	H
4874.000	52.44	-4.12	48.32	74	-25.68	peak	V
4874.000	37.02	-4.12	32.90	54	-21.10	AVG	V
7311.000	48.82	1.46	50.28	74	-23.72	peak	V
7311.000	36.94	1.46	38.40	54	-15.60	AVG	V

Test mode:		802.11n20(mcs0)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924.000	51.73	-4.03	47.70	74	-26.30	peak	H
4924.000	37.52	-4.03	33.49	54	-20.51	AVG	H
7386.000	50.08	1.66	51.74	74	-22.26	peak	H
7386.000	37.74	1.66	39.40	54	-14.60	AVG	H
4924.000	55.23	-4.03	51.20	74	-22.80	peak	V
4924.000	38.92	-4.03	34.89	54	-19.11	AVG	V
7386.000	50.85	1.66	52.51	74	-21.49	peak	V
7386.000	37.49	1.66	39.15	54	-14.85	AVG	V

Remark:

- 1) The MCS0 of rate of 802.11n20 is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

5.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2020		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

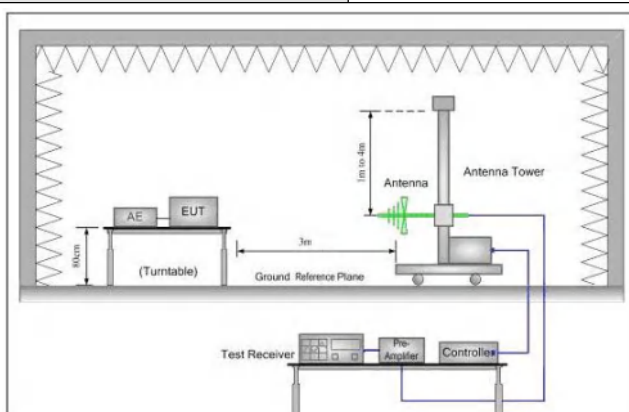


Figure 1. 30MHz to 1GHz

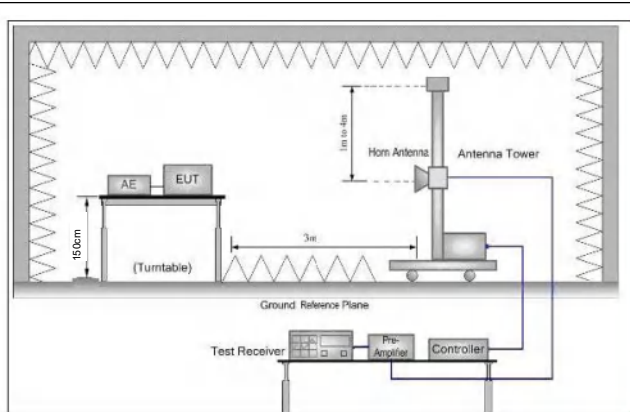


Figure 2. Above 1 GHz

Test Procedure:

- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- Note: For the radiated emission test above 1GHz:
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - The antenna height 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

	<p>measurement.</p> <p>d. 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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case .</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case.</p> <p>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).</p> <p>Only the worst case is recorded in the report.</p>
Test Results:	Pass

Test data:

Worse case mode:		802.11b(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	58.68	-9.2	49.48	74	-24.52	peak	H
2390.000	44.94	-9.2	35.74	54	-18.26	AVG	H
2400.000	59.51	-9.39	50.12	74	-23.88	peak	H
2400.000	46.53	-9.39	37.14	54	-16.86	AVG	H
2390.000	58.84	-9.2	49.64	74	-24.36	peak	V
2390.000	44.51	-9.2	35.31	54	-18.69	AVG	V
2400.000	60.00	-9.39	50.61	74	-23.39	peak	V
2400.000	46.32	-9.39	36.93	54	-17.07	AVG	V

Worse case mode:		802.11b(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	57.54	-9.29	48.25	74	-25.75	peak	H
2483.500	44.11	-9.29	34.82	54	-19.18	AVG	H
2483.500	58.26	-9.29	48.97	74	-25.03	peak	V
2483.500	45.69	-9.29	36.40	54	-17.60	AVG	V

Worse case mode:		802.11g(6Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	58.91	-9.2	49.71	74	-24.29	peak	H
2390.000	44.23	-9.2	35.03	54	-18.97	AVG	H
2400.000	59.50	-9.39	50.11	74	-23.89	peak	H
2400.000	46.72	-9.39	37.33	54	-16.67	AVG	H
2390.000	59.03	-9.2	49.83	74	-24.17	peak	V
2390.000	44.60	-9.2	35.40	54	-18.60	AVG	V
2400.000	59.69	-9.39	50.30	74	-23.70	peak	V
2400.000	46.87	-9.39	37.48	54	-16.52	AVG	V

Worse case mode:		802.11g(6Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	57.90	-9.29	48.61	74	-25.39	peak	H
2483.500	43.58	-9.29	34.29	54	-19.71	AVG	H
2483.500	57.46	-9.29	48.17	74	-25.83	peak	V
2483.500	45.46	-9.29	36.17	54	-17.83	AVG	V

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	58.52	-9.2	49.32	74	-24.68	peak	H
2390.000	44.78	-9.2	35.58	54	-18.42	AVG	H
2400.000	59.38	-9.39	49.99	74	-24.01	peak	H
2400.000	46.52	-9.39	37.13	54	-16.87	AVG	H
2390.000	58.77	-9.2	49.57	74	-24.43	peak	V
2390.000	44.13	-9.2	34.93	54	-19.07	AVG	V
2400.000	59.82	-9.39	50.43	74	-23.57	peak	V
2400.000	46.03	-9.39	36.64	54	-17.36	AVG	V

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	57.67	-9.29	48.38	74	-25.62	peak	H
2483.500	44.17	-9.29	34.88	54	-19.12	AVG	H
2483.500	57.61	-9.29	48.32	74	-25.68	peak	V
2483.500	45.93	-9.29	36.64	54	-17.36	AVG	V

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

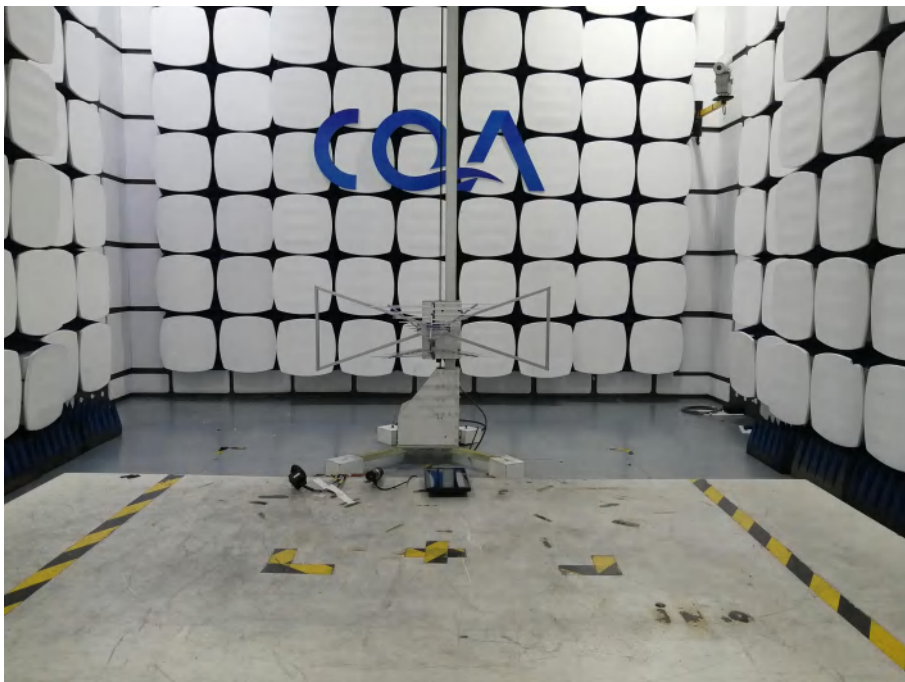
6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission

9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:



7 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20250200215E-01.

*** END OF REPORT ***