RF TEST REPORT

For

Shenzhen AIME Cloud Chuang Intelligent Technology Co., Ltd

Product Name: Immersion TV backlight

Test Model(s).: LE-CA-C118

Report Reference No.	:	**DACE240425001EC001**
FCC ID	:	**2BD8Y-LECAC118**
Applicant's Name	:	Shenzhen AIME Cloud Chuang Intelligent Technology Co., Ltd
Address	:	4thFloor, Building4, HongfaHi-tech Park, Shiyan Street, Baoan District, Shenzhen, Guangdong Province
Testing Laboratory	:	Shenzhen DACE Testing Technology Co., Ltd.
Address	:	101-102, H5 Building & floor 1, Building H, Hongfa Science and Technology Park, Tangtou, Shiyan, Bao'An District, Shenzhen, China
Test Specification Standard	:	**47 CFR Part 15.247** **ANSI C63.10-2013 & KDB 558074 D01 15.247 Meas Guidance v05r02**
Date of Receipt	:	April 25, 2024
Date of Test	:	April 25, 2024 to May 8, 2024
Data of Issue	:	May 8, 2024
Result	:	**Pass**

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE240425001EC001	May 8, 2024

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:	Supervised by:	Approved by:
Keren Huang	Stone Yin	Tom Chen
Keren Huang / Test Engineer	Stone Yin / Project Engineer	Tom Chen / Manager

CONTENTS

1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

Item	Method	Requirement	Result
Antenna requirement	/	47 CFR 15.203	Pass
Conducted Emission at AC power line	ANSI C63.10-2013 section 6.2	47 CFR 15.207(a)	Pass
Occupied Bandwidth	ANSI C63.10-2013, section 11.8	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	ANSI C63.10-2013, section 11.9.1	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	ANSI C63.10-2013, section 11.10	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	ANSI C63.10-2013 section 11.11	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	ANSI C63.10-2013 section 6.10	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	ANSI C63.10-2013 section 6.6.4	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	ANSI C63.10-2013 section 6.6.4	47 CFR 15.247(d), 15.209, 15.205	Pass

Note: 1.N/A -this device(EUT) is not applicable to this testing item
2. RF-conducted test results including cable loss.

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name	:	Shenzhen AIME Cloud Chuang Intelligent Technology Co., Ltd
Address	:	4thFloor, Building4, HongfaHi-tech Park, Shiyan Street, Baoan District, Shenzhen, Guangdong Province
Manufacturer	:	Shenzhen AIME Cloud Chuang Intelligent Technology Co., Ltd
Address	:	4thFloor, Building4, HongfaHi-tech Park, Shiyan Street, Baoan District, Shenzhen, Guangdong Province

2.2 Description of Device (EUT)

Product Name:	Immersion TV backlight
Model/Type reference:	LE-CA-C118
Series Model:	LE-CA-C119, LE-CA(100-1000)
Model Difference:	The PCB and BOM of the control end of the product are the same, but the color and length of the controlled light strip may vary. Therefore, the test model is LE-CA-C118.
Trade Mark:	AIME
Product Description:	Immersion TV backlight
Power Supply:	DC12V-2A from adapter
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Number of Channels:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type:	PCB ANTENNA
Antenna Gain:	2.54dBi
Hardware Version:	94V-0
Software Version:	ESPTESTTOOL

Operation Frequency each of channel							
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:

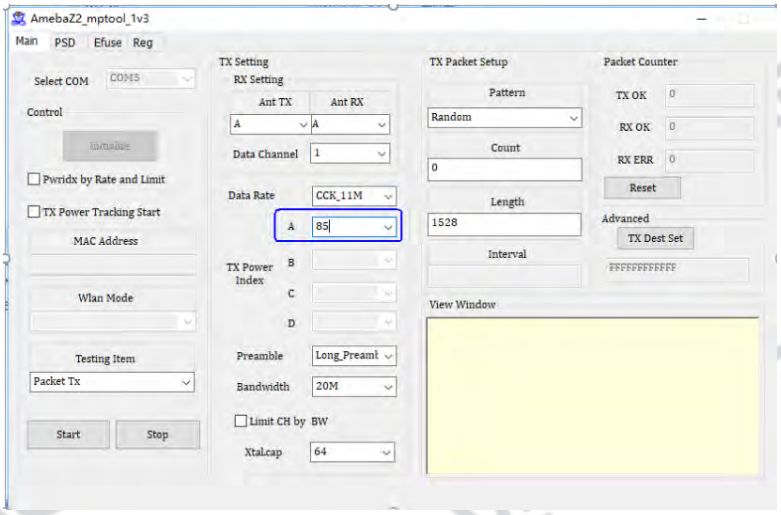
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	**Frequency (MHz)**	
	20MHz	40MHz
Lowest channel(L)	2412MHz	2422MHz

Middle channel(M)	2437MHz	2437MHz
Highest channel(H)	2462MHz	2452MHz

2.3 Description of Test Modes

No	Title	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode.
TM4	802.11n(HT40) mode	Keep the EUT in 802.11n(HT40) transmitting mode.

TX mode	Keep the EUT works in continuously transmitting mode.
	☒Special software is used. ☐Through engineering command into the engineering mode. engineering command: *#*#3646633#*#* ☐Other method:
	Special software: 
Duty cycle:	Using the maximum continuous transmission signal, the duty cycle should reach 100% as much as possible.

2.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Title	Manufacturer	Model No.	Serial No.
Adapter	MODEL GFDA5-1202000U	INPUT:100-240V~50/60Hz 1.0A Max OUTPUT 12V-2A	/
/	/	/	/

2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**

Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	/	/
Cable	SCHWARZ BECK	/	/	2024-03-20	2025-03-19
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Ateennator	561-G071	2023-12-12	2024-12-11
50ΩCoaxial Switch	Anritsu	MP59B	M20531	/	/
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	ID:1164.6607K03-102109-MH	2023-06-13	2024-06-12
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-12	2024-12-11

Occupied Bandwidth
Maximum Conducted Output Power
Power Spectral Density
Emissions in non-restricted frequency bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information	RTS-01	V2.0.0.0	/	/
RF Sensor Unit	Tachoy Information	TR1029-2	000001	2023-11-09	2024-11-08
Vector signal generator	Keysight	N5181A	MY48180415	2023-11-09	2024-11-08
Signal generator	Keysight	N5182A	MY50143455	2023-11-09	2024-11-08
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	/	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2021-07-05	2024-07-04
Cable(LF)#2	Schwarzbeck	/	/	2024-02-19	2025-02-18
Cable(LF)#1	Schwarzbeck	/	/	2024-02-19	2025-02-18
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-03-20	2025-03-19
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2024-03-20	2025-03-19
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2023-06-13	2024-06-12
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2023-06-13	2024-06-12
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-jR	2023-06-14	2024-06-13
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20
Test Receiver	R&S	ESCI	102109	2023-06-13	2024-06-12

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
RF power density	±0.234%
Conducted Spurious emissions	±1.98dB
Radiated Emission (Above 1GHz)	±5.46dB
Radiated Emission (Below 1GHz)	±5.79dB
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

2.7 Identification of Testing Laboratory

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration No.:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:

4 Radio Spectrum Matter Test Results (RF)

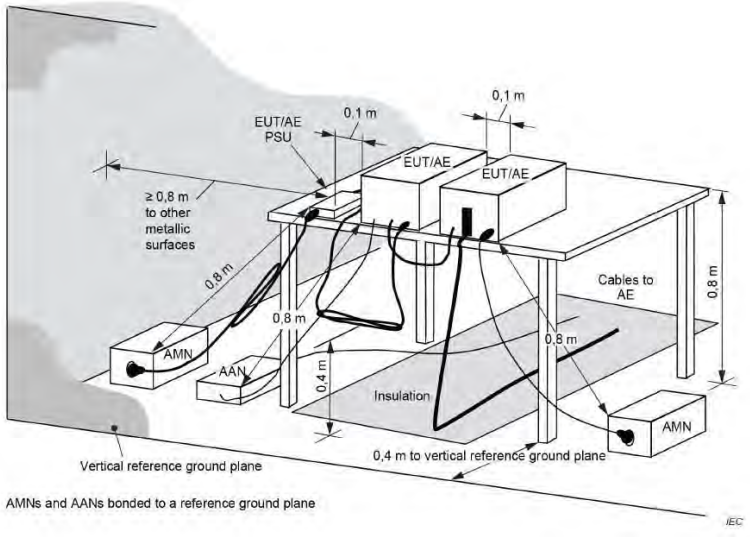
4.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 *Decreases with the logarithm of the frequency.
Test Method:	ANSI C63.10-2013 section 6.2
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.1.1 E.U.T. Operation:

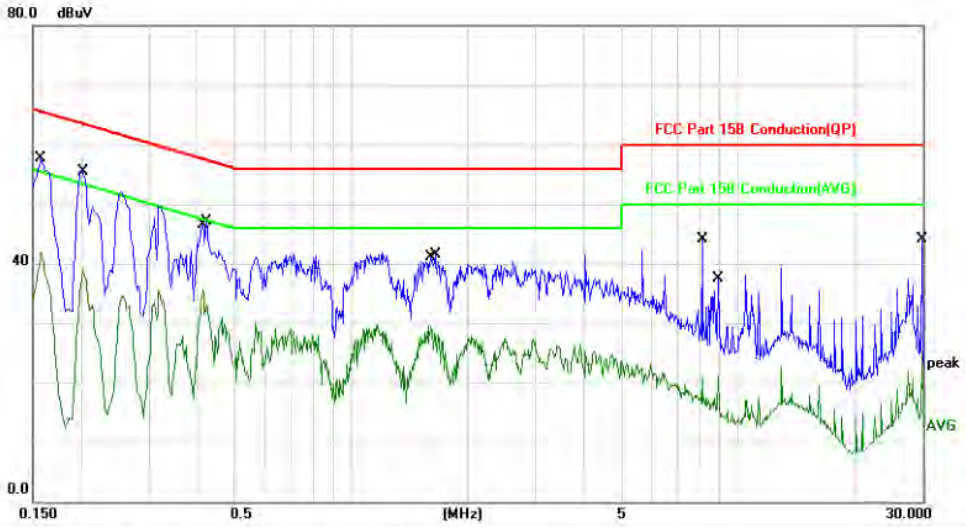
Operating Environment:					
Temperature:	23 °C	Humidity:	51.2 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1(worse case)				

4.1.2 Test Setup Diagram:



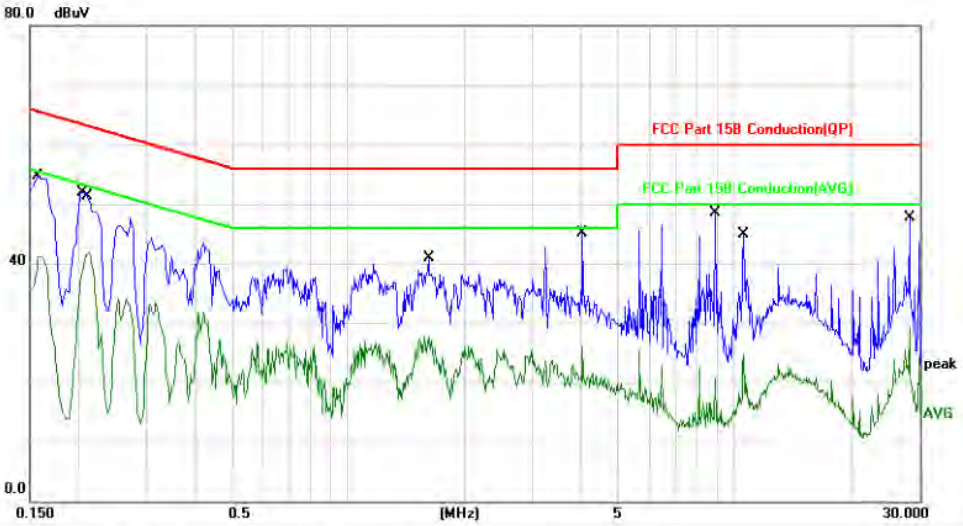
4.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	47.68	10.03	57.71	65.56	-7.85	QP	
2		0.1580	31.94	10.03	41.97	55.56	-13.59	AVG	
3		0.2020	45.49	10.04	55.53	63.52	-7.99	QP	
4		0.2020	29.02	10.04	39.06	53.52	-14.46	AVG	
5		0.4140	25.80	9.99	35.79	47.57	-11.78	AVG	
6		0.4220	37.04	9.99	47.03	57.41	-10.38	QP	
7		1.5900	19.46	9.94	29.40	46.00	-16.60	AVG	
8		1.6460	31.59	9.95	41.54	56.00	-14.46	QP	
9		8.0820	33.69	10.31	44.00	60.00	-16.00	QP	
10		8.8900	10.74	10.35	21.09	50.00	-28.91	AVG	
11		29.8980	33.51	10.59	44.10	60.00	-15.90	QP	
12		29.8980	14.55	10.59	25.14	50.00	-24.86	AVG	

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	44.76	10.03	54.79	65.56	-10.77	QP	
2		0.1580	31.11	10.03	41.14	55.56	-14.42	AVG	
3		0.2060	41.95	10.04	51.99	63.36	-11.37	QP	
4		0.2140	31.62	10.03	41.65	53.04	-11.39	AVG	
5		1.6140	30.95	9.95	40.90	56.00	-15.10	QP	
6		1.6220	17.73	9.95	27.68	46.00	-18.32	AVG	
7		4.0420	35.08	10.09	45.17	56.00	-10.83	QP	
8		4.0420	16.09	10.09	26.18	46.00	-19.82	AVG	
9		8.8900	38.14	10.35	48.49	60.00	-11.51	QP	
10		10.5100	14.28	10.43	24.71	50.00	-25.29	AVG	
11		28.2820	37.21	10.58	47.79	60.00	-12.21	QP	
12		28.2820	18.64	10.58	29.22	50.00	-20.78	AVG	

Remark: Over= Measurement Level – Limit; Measurement Level =Receiver reading Level + correction factor

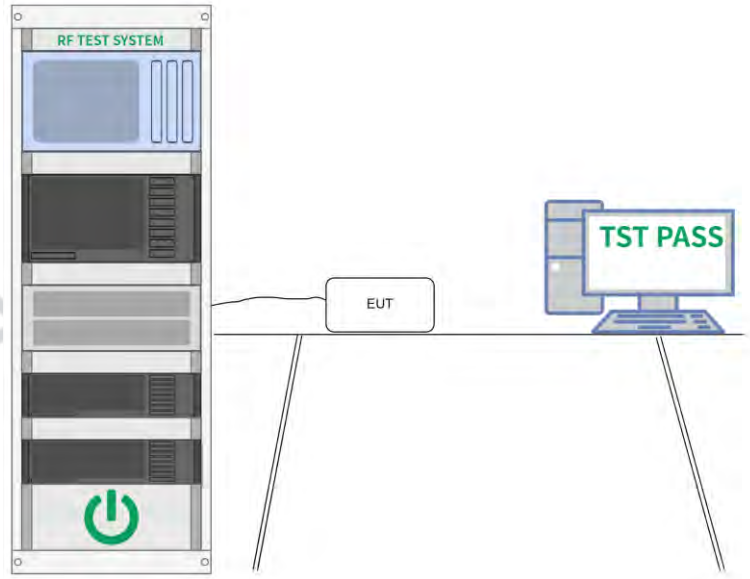
4.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 11.8
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW >= [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	51.2 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

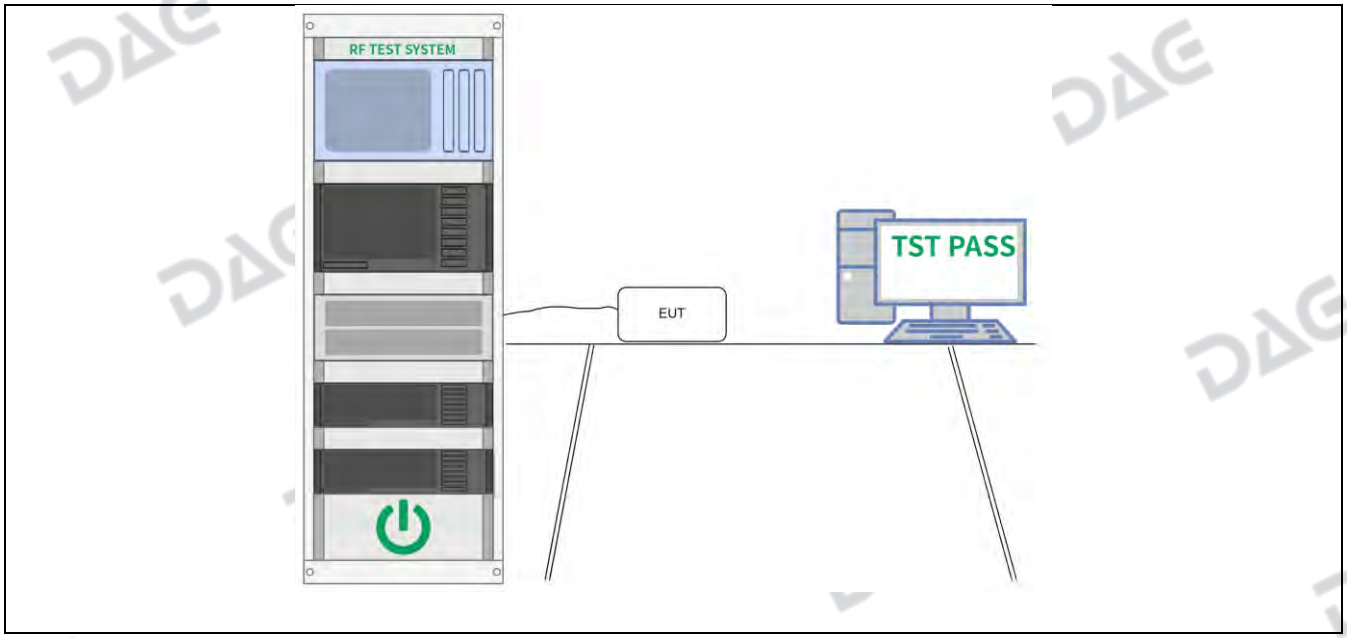
4.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2013, section 11.9.1
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power Note: Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,…, Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm. Per ANSI C63.10-2013 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used. For correlated unequal antenna gain Directional gain = 10*log[(10G1/20 + 10G2/20 + … + 10GN/20)2 / NANT] dBi For completely uncorrelated unequal antenna gain Directional gain = 10*log[(10G1/10 + 10G2/10 + … + 10GN/10)/ NANT] dBi Sample Multiple antennas Calculation: Core 0 + Core 1 +…Core i. = MIMO/CDD (i is the number of antennas) (#VALUE! mW + mW) = #VALUE! mW = dBm Sample e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	51.2 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

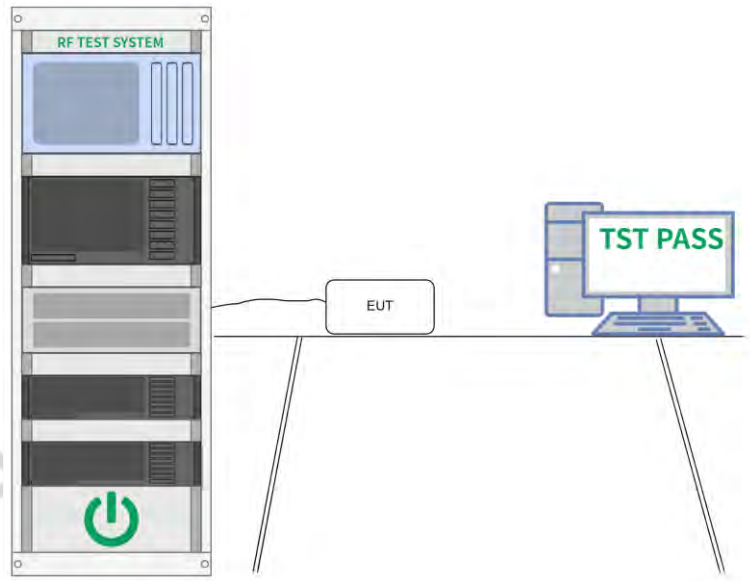
4.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2013, section 11.10
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

4.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	51.2 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

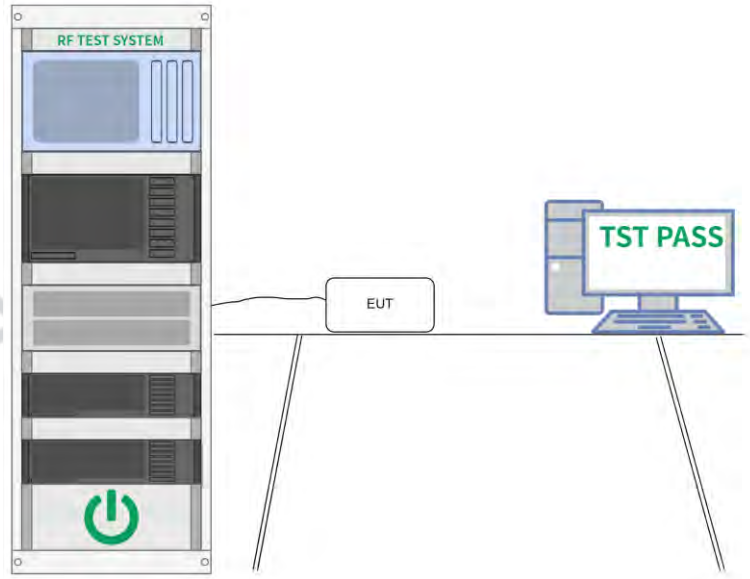
4.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided 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 paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 11.11
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

4.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	51.2 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

4.6 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`
Test Limit:	See table below
Test Method:	ANSI C63.10-2013 section 6.10
Procedure:	ANSI C63.10-2013 section 6.10.5.2

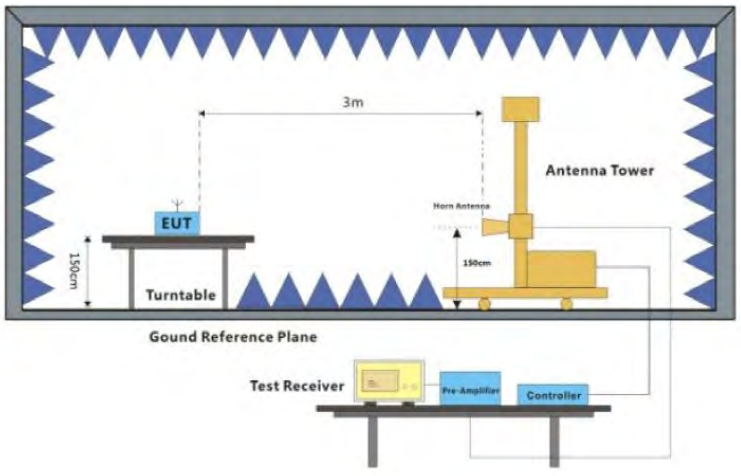
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.6.1 E.U.T. Operation:

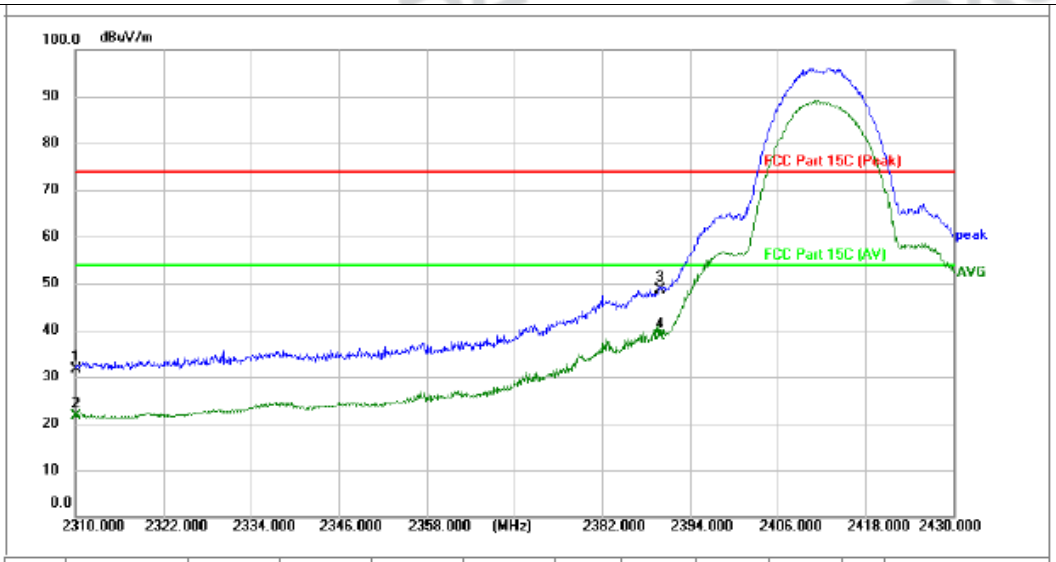
Operating Environment:					
Temperature:	23 °C	Humidity:	51.2 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.6.2 Test Setup Diagram:



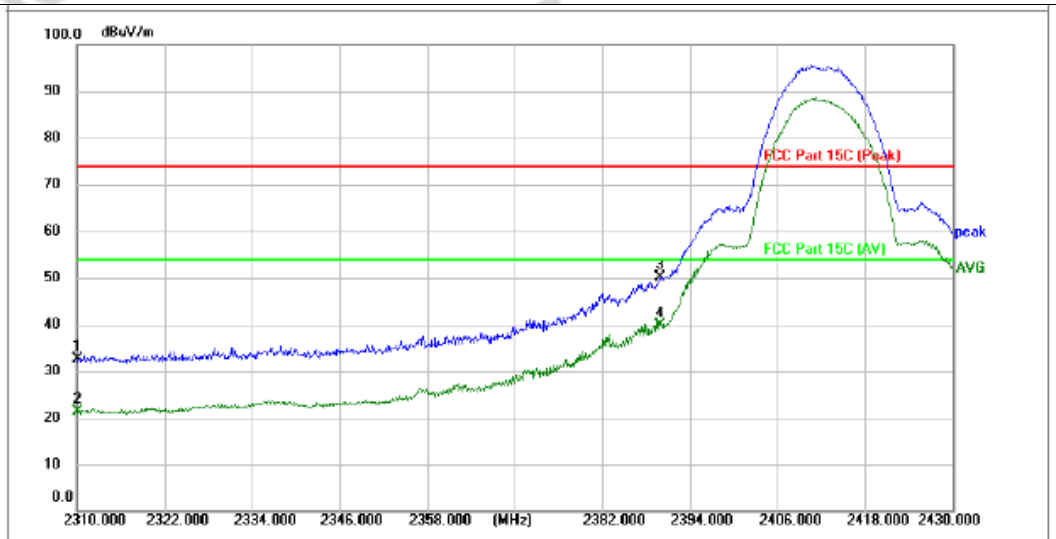
4.6.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



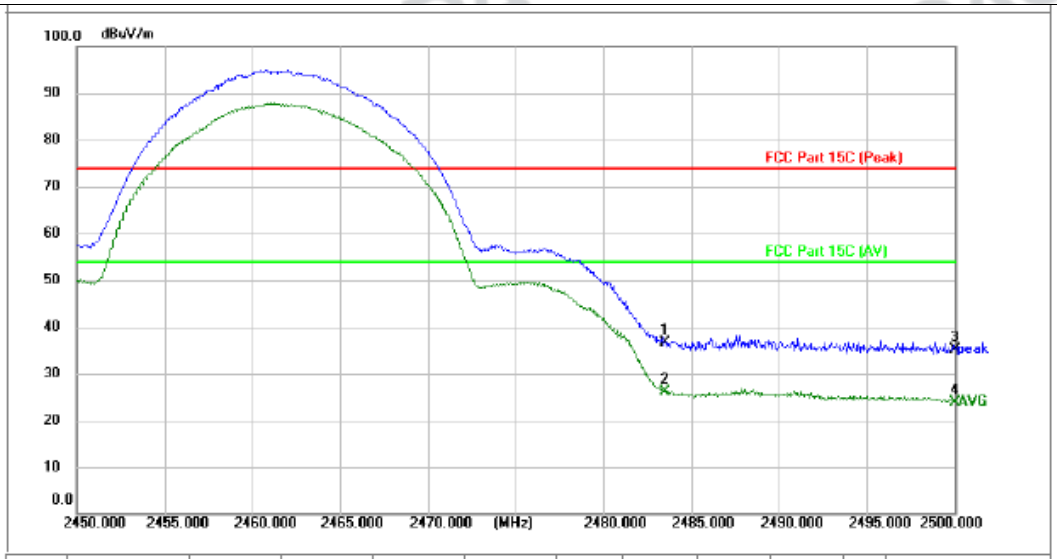
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	38.63	-6.93	31.70	74.00	-42.30	peak	150		P	
2	2310.000	28.63	-6.93	21.70	54.00	-32.30	AVG	150		P	
3	2390.000	55.38	-6.72	48.66	74.00	-25.34	peak	150		P	
4 *	2390.000	45.37	-6.72	38.65	54.00	-15.35	AVG	150		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



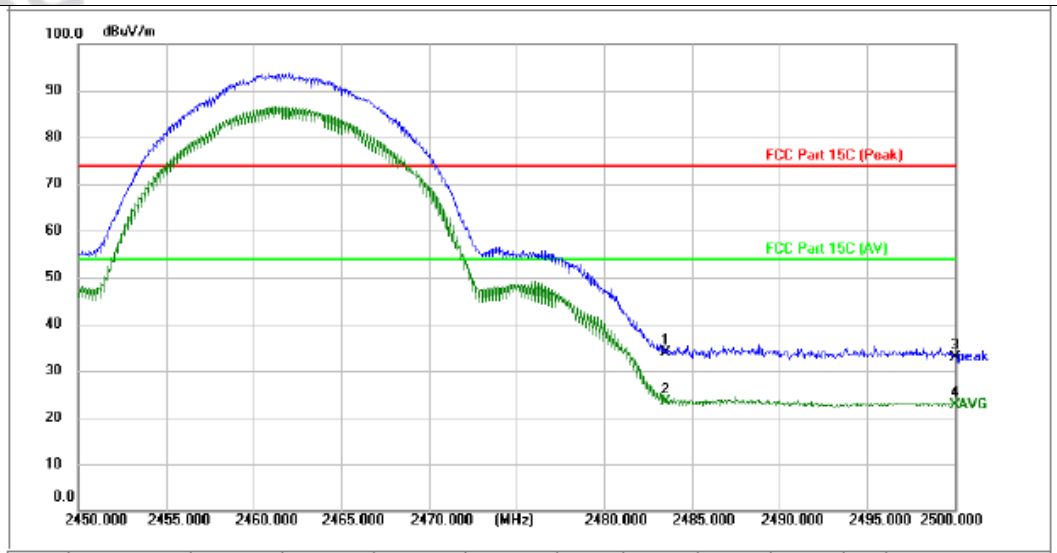
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	40.81	-8.23	32.58	74.00	-41.42	peak	150		P	
2	2310.000	29.66	-8.23	21.43	54.00	-32.57	AVG	150		P	
3	2390.000	58.04	-7.91	50.13	74.00	-23.87	peak	150		P	
4 *	2390.000	47.73	-7.91	39.82	54.00	-14.18	AVG	150		P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	43.04	-6.47	36.57	74.00	-37.43	peak	149		P	
2 *	2483.500	32.51	-6.47	26.04	54.00	-27.96	AVG	149		P	
3	2500.000	41.51	-6.43	35.08	74.00	-38.92	peak	149		P	
4	2500.000	30.38	-6.43	23.95	54.00	-30.05	AVG	149		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

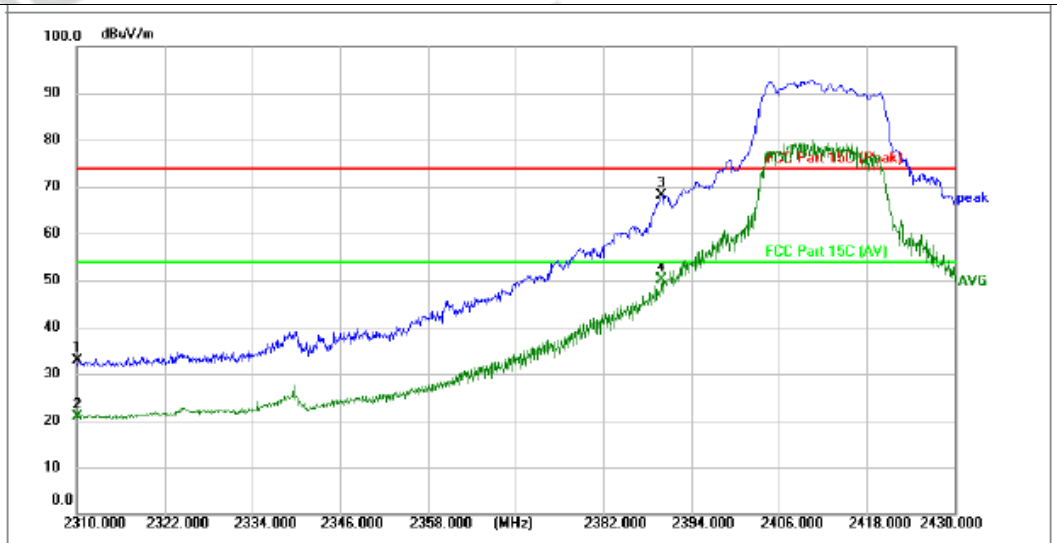


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	41.36	-7.54	33.82	74.00	-40.18	peak	149		P	
2 *	2483.500	30.88	-7.54	23.34	54.00	-30.66	AVG	149		P	
3	2500.000	40.46	-7.48	32.98	74.00	-41.02	peak	149		P	
4	2500.000	30.09	-7.48	22.61	54.00	-31.39	AVG	149		P	

TM2 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L

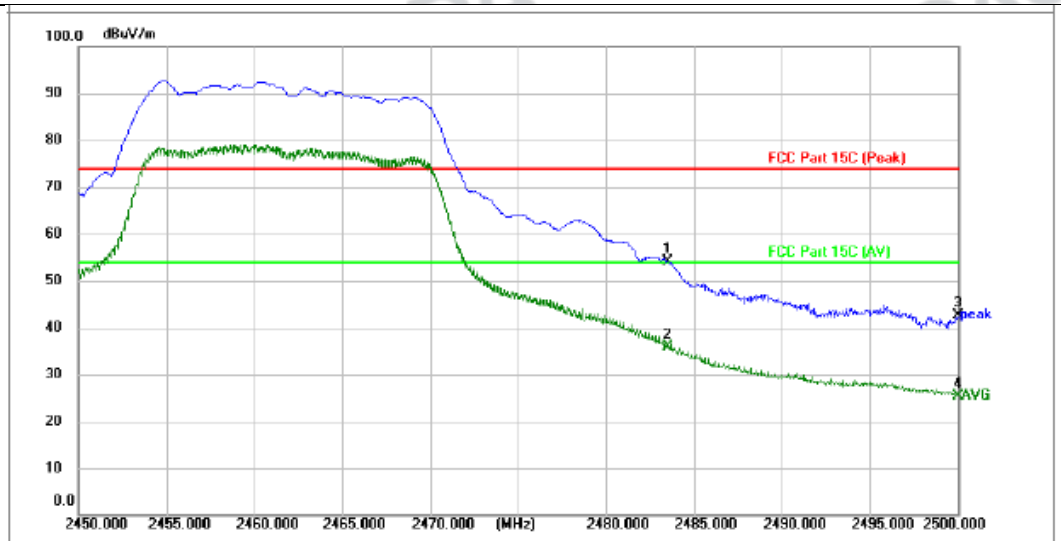
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	38.71	-6.93	31.78	74.00	-42.22	peak	149		P	
2	2310.000	27.82	-6.93	20.89	54.00	-33.11	AVG	149		P	
3	2390.000	74.16	-6.72	67.44	74.00	-6.56	peak	149		P	
4 *	2390.000	56.24	-6.72	49.52	54.00	-4.48	AVG	149		P	

TM2 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



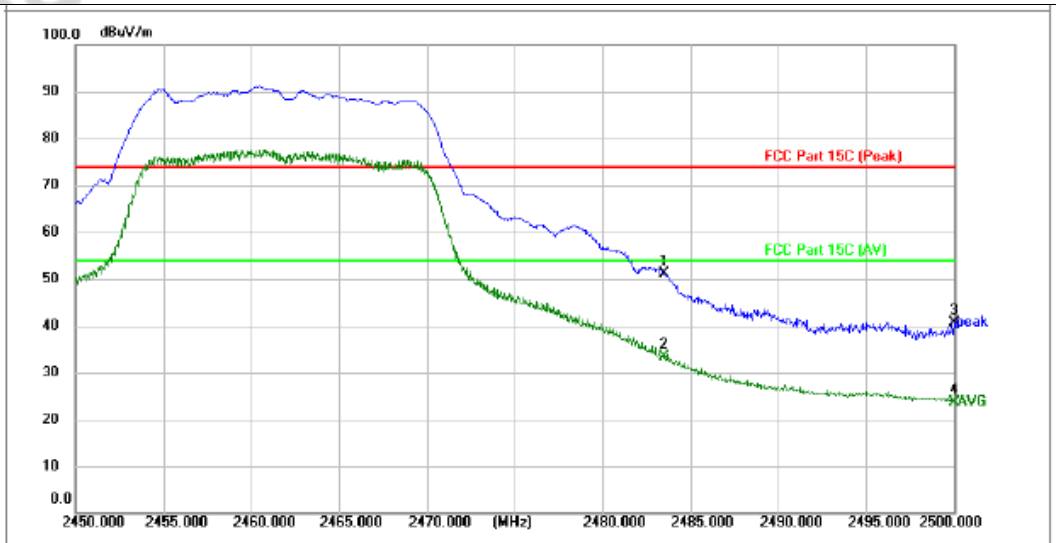
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	41.00	-8.23	32.77	74.00	-41.23	peak	149		P	
2	2310.000	29.02	-8.23	20.79	54.00	-33.21	AVG	149		P	
3	2390.000	76.01	-7.91	68.10	74.00	-5.90	peak	149		P	
4 *	2390.000	57.97	-7.91	50.06	54.00	-3.94	AVG	149		P	

TM2 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



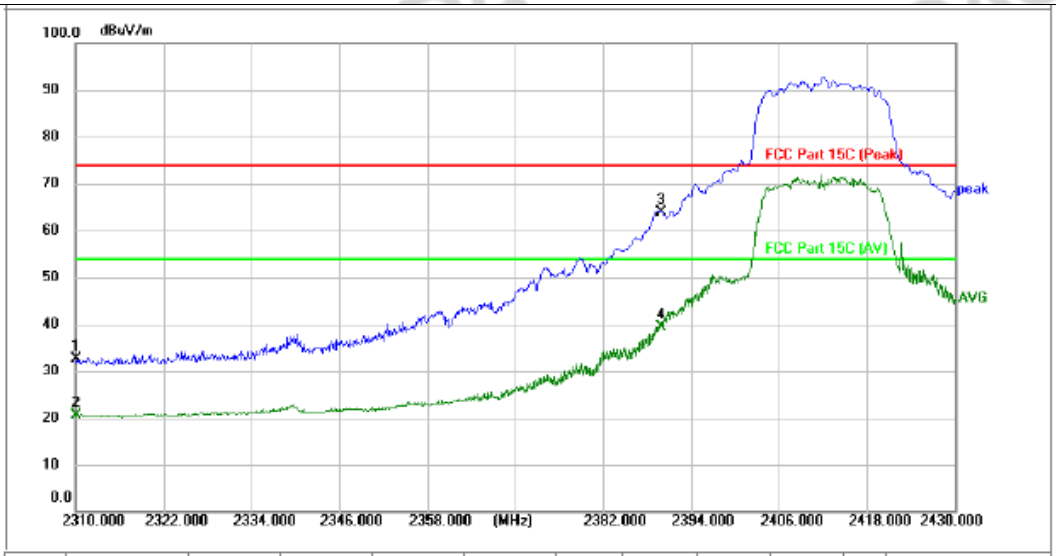
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	60.72	-6.47	54.25	74.00	-19.75	peak	149		P	
2 *	2483.500	42.45	-6.47	35.98	54.00	-18.02	AVG	149		P	
3	2500.000	49.05	-6.43	42.62	74.00	-31.38	peak	149		P	
4	2500.000	31.81	-6.43	25.38	54.00	-28.62	AVG	149		P	

TM2 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



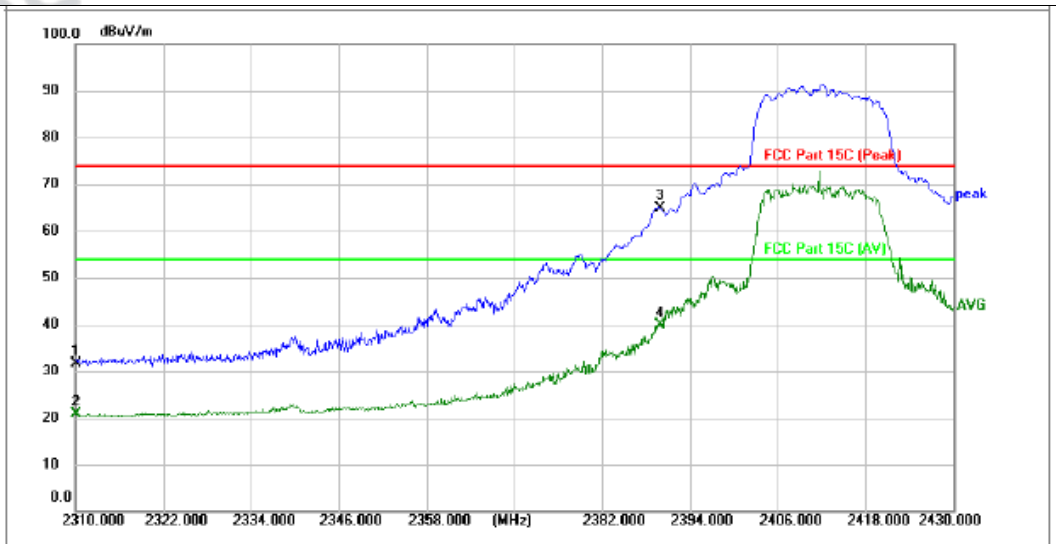
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	58.79	-7.54	51.25	74.00	-22.75	peak	149		P	
2 *	2483.500	40.88	-7.54	33.34	54.00	-20.66	AVG	149		P	
3	2500.000	48.02	-7.48	40.54	74.00	-33.46	peak	149		P	
4	2500.000	31.17	-7.48	23.69	54.00	-30.31	AVG	149		P	

TM3 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



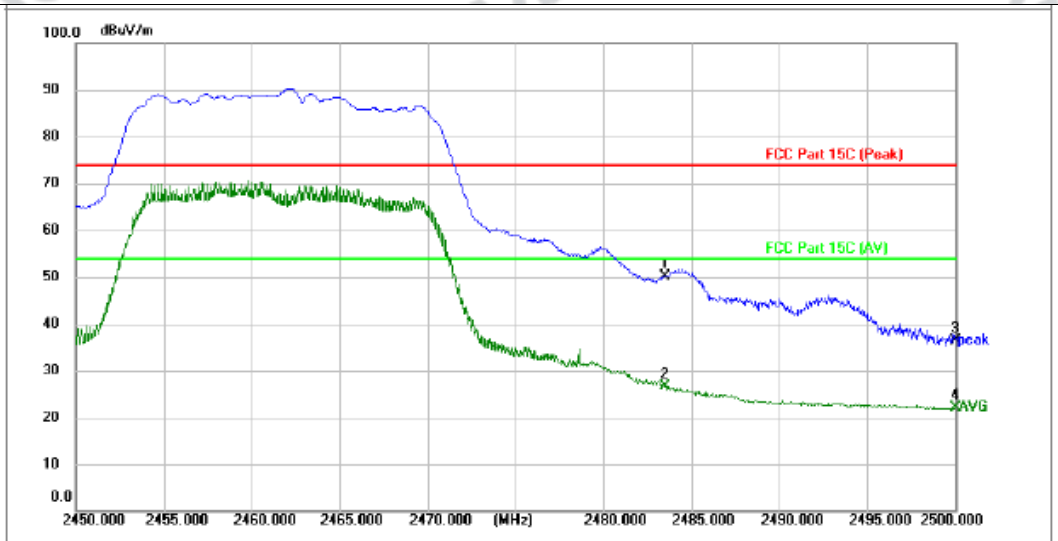
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	39.63	-6.93	32.70	74.00	-41.30	peak	149		P	
2	2310.000	27.59	-6.93	20.66	54.00	-33.34	AVG	149		P	
3 *	2390.000	70.67	-6.72	63.95	74.00	-10.05	peak	149		P	
4	2390.000	45.98	-6.72	39.26	54.00	-14.74	AVG	149		P	

TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



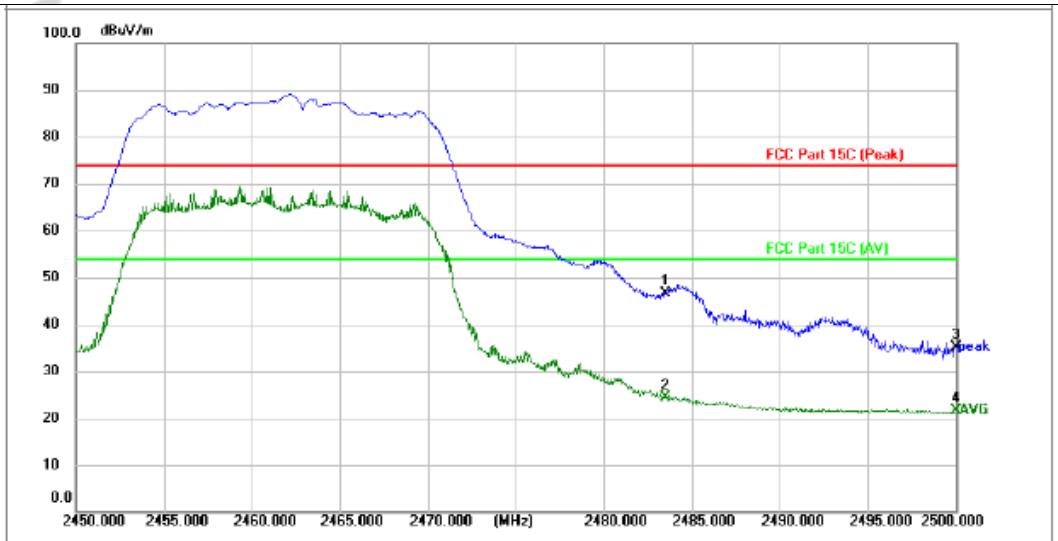
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	39.92	-8.23	31.69	74.00	-42.31	peak	149		P	
2	2310.000	29.00	-8.23	20.77	54.00	-33.23	AVG	149		P	
3 *	2390.000	72.70	-7.91	64.79	74.00	-9.21	peak	149		P	
4	2390.000	47.77	-7.91	39.86	54.00	-14.14	AVG	149		P	

TM3 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2483.500	56.72	-6.47	50.25	74.00	-23.75	peak	149		P	
2	2483.500	33.11	-6.47	26.64	54.00	-27.36	AVG	149		P	
3	2500.000	42.85	-6.43	36.42	74.00	-37.58	peak	149		P	
4	2500.000	28.58	-6.43	22.15	54.00	-31.85	AVG	149		P	

TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

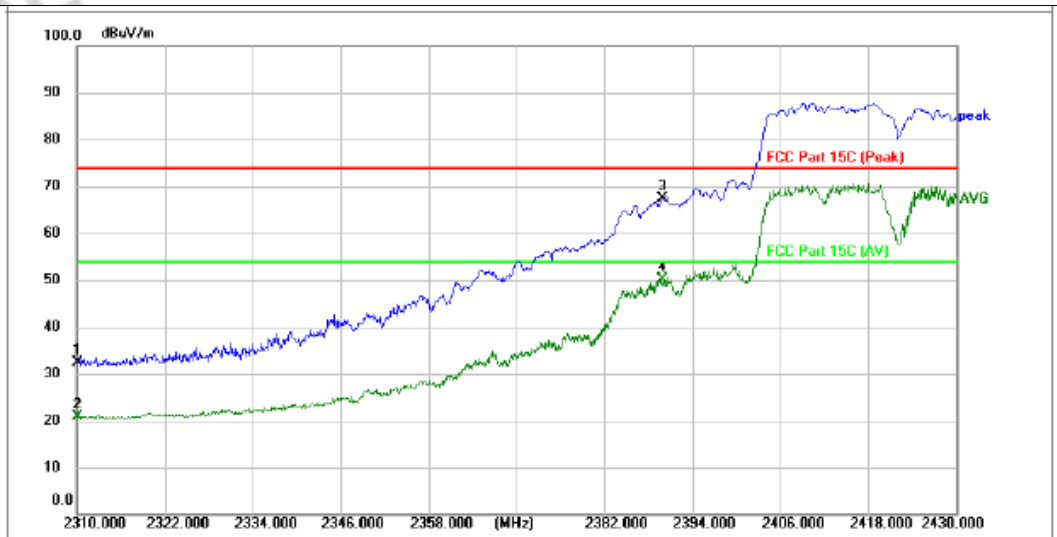


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2483.500	54.19	-7.54	46.65	74.00	-27.35	peak	149		P	
2	2483.500	31.84	-7.54	24.30	54.00	-29.70	AVG	149		P	
3	2500.000	42.66	-7.48	35.18	74.00	-38.82	peak	149		P	
4	2500.000	29.04	-7.48	21.56	54.00	-32.44	AVG	149		P	

TM4 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 40 / CH: L

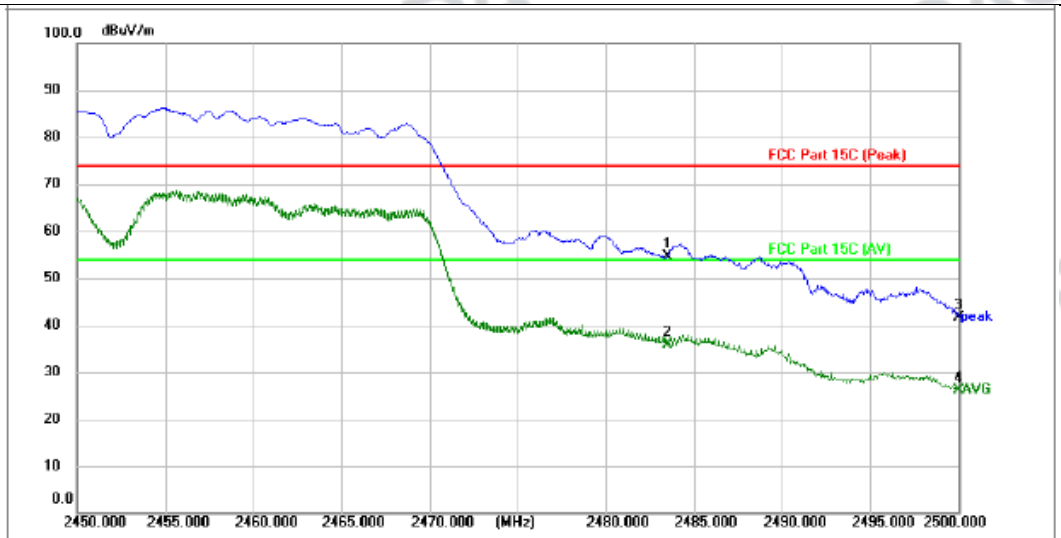
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	39.61	-6.93	32.68	74.00	-41.32	peak	149		P	
2	2310.000	27.77	-6.93	20.84	54.00	-33.16	AVG	149		P	
3	2390.000	73.16	-6.72	66.44	74.00	-7.56	peak	149		P	
4 *	2390.000	55.61	-6.72	48.89	54.00	-5.11	AVG	149		P	

TM4 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 40 / CH: L



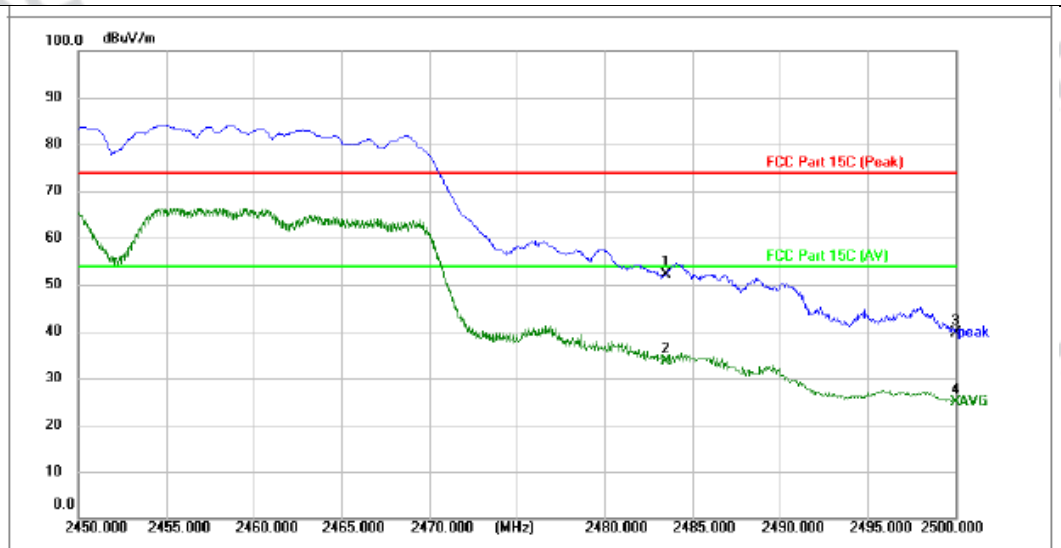
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	40.71	-8.23	32.48	74.00	-41.52	peak	149		P	
2	2310.000	29.05	-8.23	20.82	54.00	-33.18	AVG	149		P	
3	2390.000	75.37	-7.91	67.46	74.00	-6.54	peak	149		P	
4 *	2390.000	57.97	-7.91	50.06	54.00	-3.94	AVG	149		P	

TM4 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 40 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	61.07	-6.47	54.60	74.00	-19.40	peak	149		P	
2 *	2483.500	42.46	-6.47	35.99	54.00	-18.01	AVG	149		P	
3	2500.000	48.05	-6.43	41.62	74.00	-32.38	peak	149		P	
4	2500.000	32.54	-6.43	26.11	54.00	-27.89	AVG	149		P	

TM4 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 40 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	59.73	-7.54	52.19	74.00	-21.81	peak	149		P	
2 *	2483.500	41.07	-7.54	33.53	54.00	-20.47	AVG	149		P	
3	2500.000	47.14	-7.48	39.66	74.00	-34.34	peak	149		P	
4	2500.000	32.31	-7.48	24.83	54.00	-29.17	AVG	149		P	

1. Margin = Measurement Level - Limit ; Measurement Level=Test receiver reading + correction factor
2. The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

4.7 Emissions in frequency bands (below 1GHz)

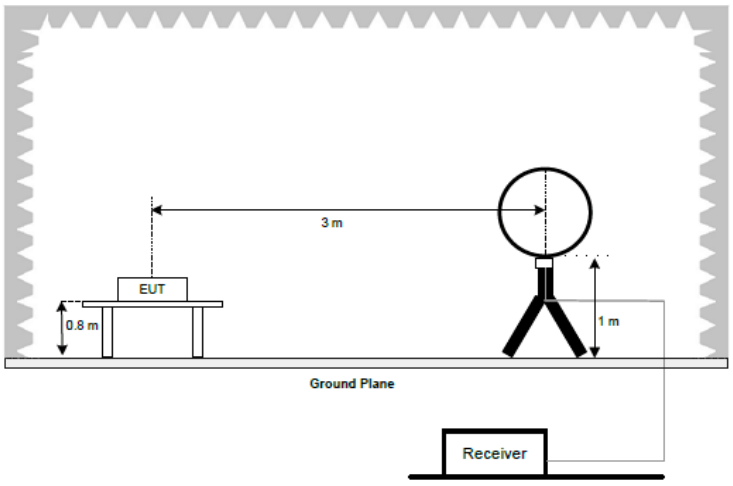
<table>
<tr><td>Test Requirement:</td><td>Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2013 section 6.6.4</td></tr>
<tr><td>Procedure:</td><td>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. 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.
e. 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.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. 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.
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.
Remark:
1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor &</td></tr>
</table>

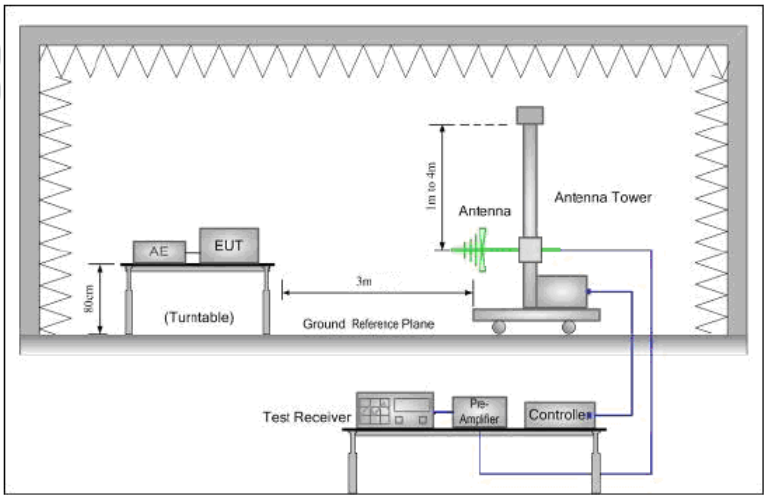
	Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor ¨C Preamplifier Factor 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	51.2 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1(worse case)				

4.7.2 Test Setup Diagram:





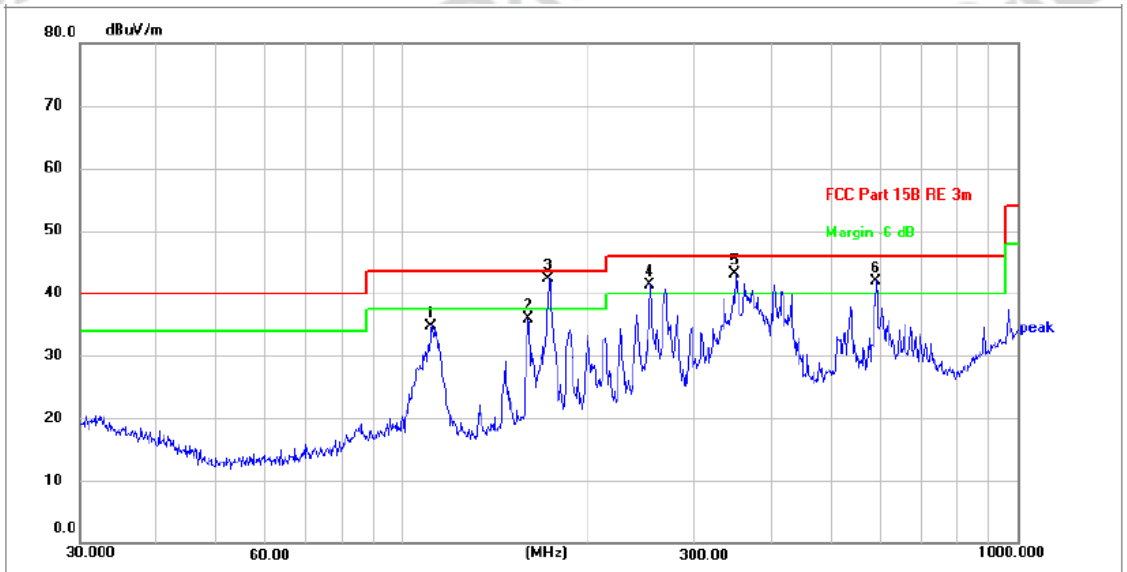
4.7.3 Test Data:

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

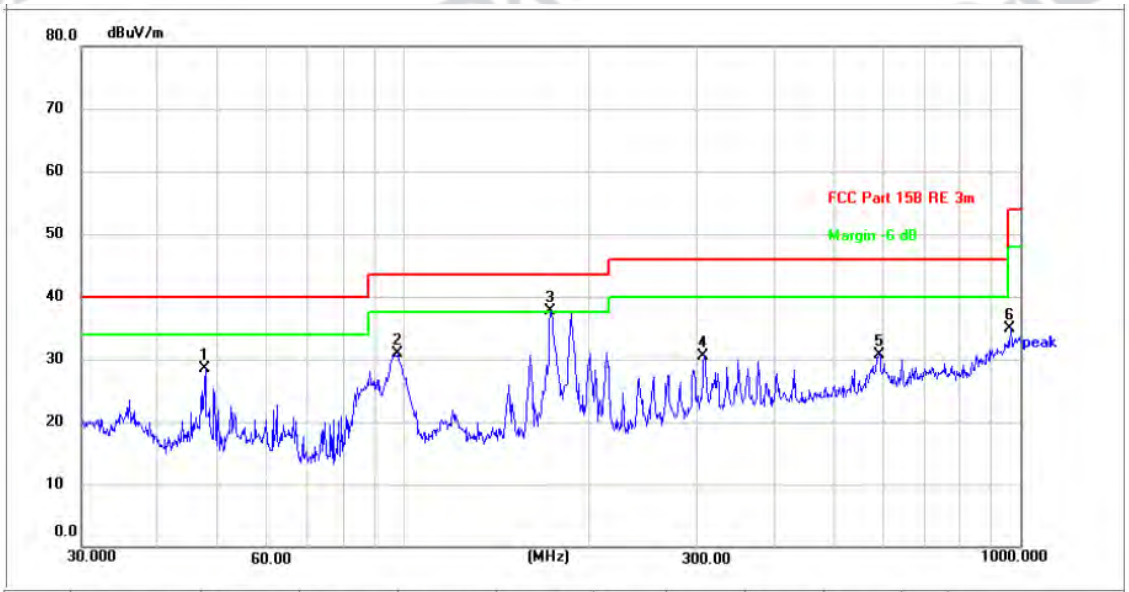
Test Data: Between 30MHz – 1000MHz:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	111.7380	39.84	-5.14	34.70	43.50	-8.80	QP	100	150	P	
2	160.3456	39.42	-3.52	35.90	43.50	-7.60	QP	100	137	P	
3 *	173.2051	45.63	-3.25	42.38	43.50	-1.12	QP	100	212	P	
4 !	252.9482	43.41	-2.01	41.40	46.00	-4.60	QP	100	219	P	
5 !	346.8092	42.38	0.72	43.10	46.00	-2.90	QP	100	50	P	
6 !	588.9051	37.34	4.65	41.99	46.00	-4.01	QP	100	91	P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	47.6586	37.39	-8.86	28.53	40.00	-11.47	QP	100	356	P	
2	97.7983	36.48	-5.64	30.84	43.50	-12.66	QP	100	311	P	
3 *	173.2051	40.86	-3.25	37.61	43.50	-5.89	QP	100	184	P	
4	306.7537	30.48	0.01	30.49	46.00	-15.51	QP	100	92	P	
5	590.9737	25.97	4.75	30.72	46.00	-15.28	QP	100	188	P	
6	962.1623	25.60	9.39	34.99	54.00	-19.01	QP	100	117	P	

Remark: 1.Margin= Mesurement Level- Limit; Measurement Level=Test receiver reading + correction factor
2.The EMC test software will only record the worst test angle and height, and only the worst case will be record edin the test report.

4.8 Emissions in frequency bands (above 1GHz)

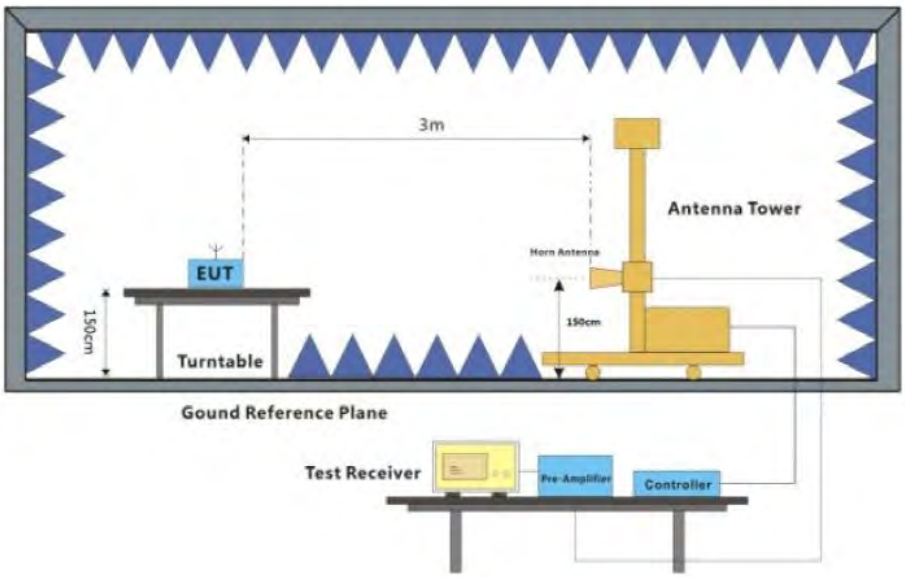
<table>
<tr><td>Test Requirement:</td><td>In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2013 section 6.6.4</td></tr>
<tr><td>Procedure:</td><td>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. 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.
e. 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.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. 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.
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.
Remark:
1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.</td></tr>
</table>

	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 ¨C Preamplifier Factor 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.8.1 E.U.T. Operation:

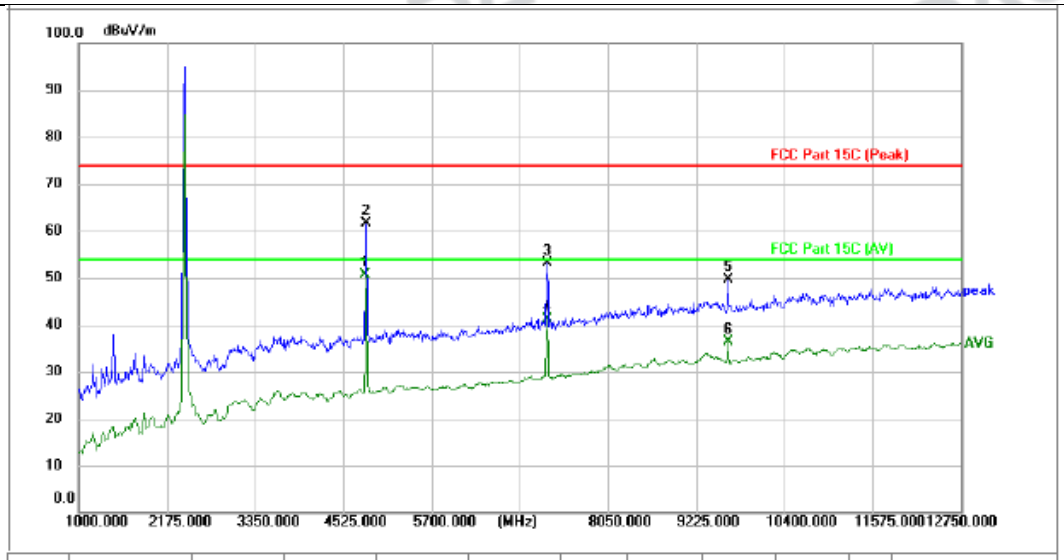
Operating Environment:					
Temperature:	23 °C	Humidity:	51.2 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1(worse case)				

4.8.2 Test Setup Diagram:



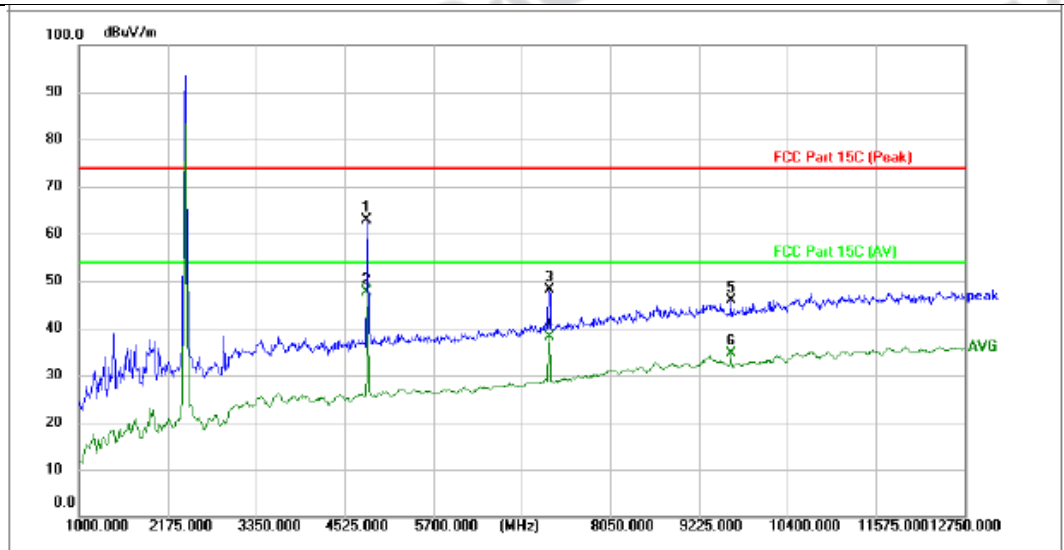
4.8.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



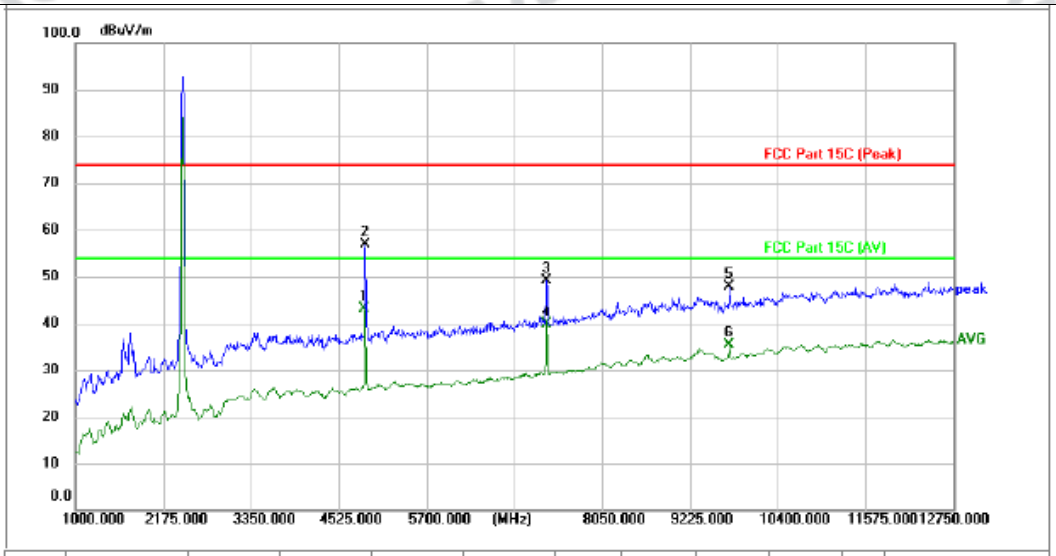
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	4818.750	51.53	-0.85	50.68	54.00	-3.32	AVG	150		P	
2	4830.500	62.38	-0.81	61.57	74.00	-12.43	peak	150		P	
3	7239.250	49.00	4.17	53.17	74.00	-20.83	peak	150		P	
4	7239.250	36.92	4.17	41.09	54.00	-12.91	AVG	150		P	
5	9648.000	41.46	8.10	49.56	74.00	-24.44	peak	150		P	
6	9648.000	28.33	8.10	36.43	54.00	-17.57	AVG	150		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



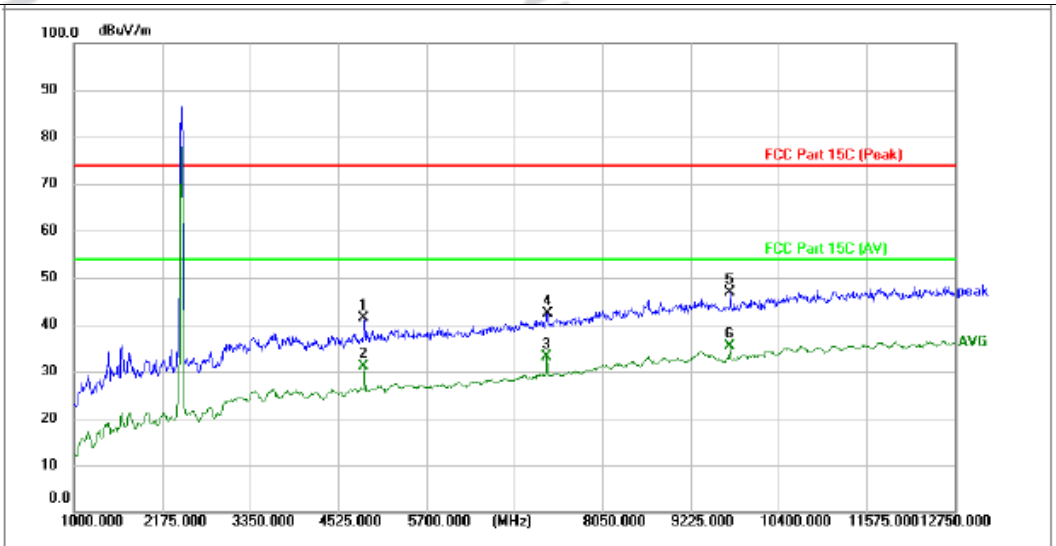
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4818.750	63.07	-0.23	62.84	74.00	-11.16	peak	150		P	
2 *	4818.750	47.83	-0.23	47.60	54.00	-6.40	AVG	150		P	
3	7239.250	43.98	4.16	48.14	74.00	-25.86	peak	150		P	
4	7239.250	34.01	4.16	38.17	54.00	-15.83	AVG	150		P	
5	9648.000	37.83	8.05	45.88	74.00	-28.12	peak	150		P	
6	9648.000	26.58	8.05	34.63	54.00	-19.37	AVG	150		P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M



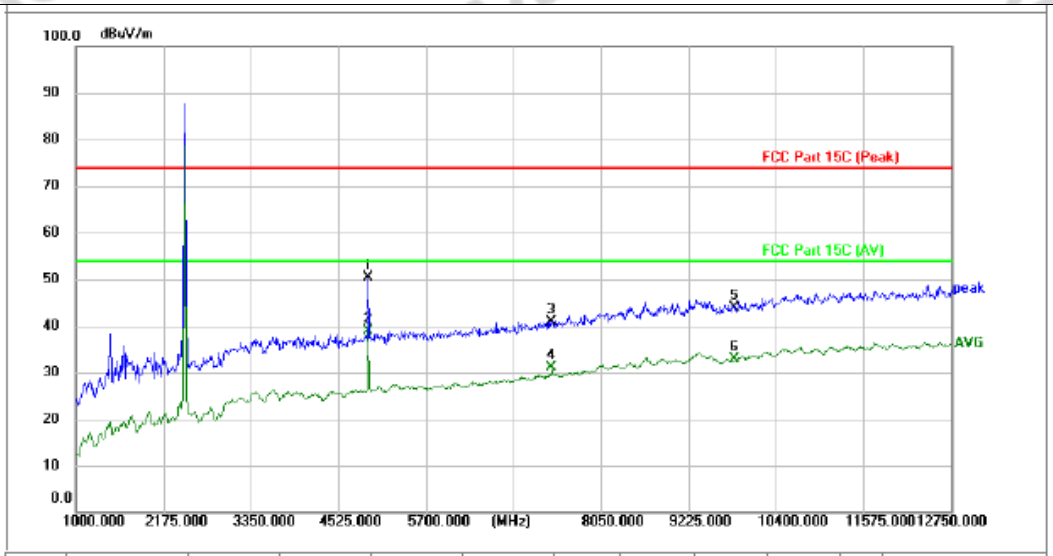
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	4865.750	43.71	-0.69	43.02	54.00	-10.98	AVG	149		P	
2	4877.500	57.65	-0.65	57.00	74.00	-17.00	peak	149		P	
3	7309.750	44.85	4.29	49.14	74.00	-24.86	peak	149		P	
4	7309.750	35.55	4.29	39.84	54.00	-14.16	AVG	149		P	
5	9748.000	39.70	8.10	47.80	74.00	-26.20	peak	149		P	
6	9748.000	27.18	8.10	35.28	54.00	-18.72	AVG	149		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: M



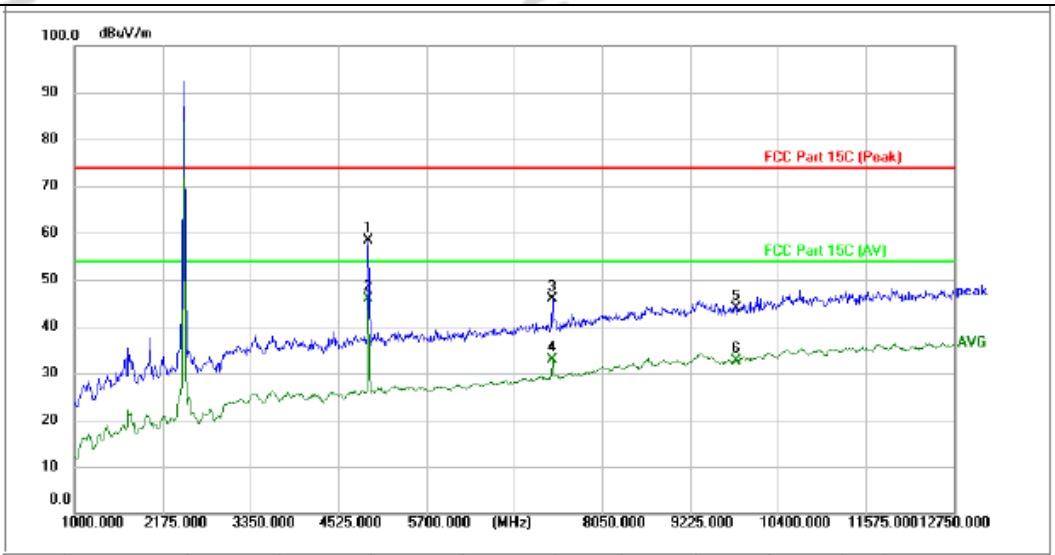
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4865.750	41.48	-0.08	41.40	74.00	-32.60	peak	149		P	
2	4865.750	31.09	-0.08	31.01	54.00	-22.99	AVG	149		P	
3	7309.750	28.84	4.34	33.18	54.00	-20.82	AVG	149		P	
4	7321.500	38.12	4.36	42.48	74.00	-31.52	peak	149		P	
5	9753.750	38.78	8.12	46.90	74.00	-27.10	peak	149		P	
6 *	9753.750	27.19	8.12	35.31	54.00	-18.69	AVG	149		P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4924.500	50.33	0.11	50.44	74.00	-23.56	peak	149		P	
2 *	4924.500	38.65	0.11	38.76	54.00	-15.24	AVG	149		P	
3	7386.000	36.26	4.52	40.78	74.00	-33.22	peak	149		P	
4	7386.000	26.60	4.52	31.12	54.00	-22.88	AVG	149		P	
5	9848.000	35.64	8.19	43.83	74.00	-30.17	peak	149		P	
6	9848.000	24.58	8.19	32.77	54.00	-21.23	AVG	149		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	4924.500	58.77	-0.50	58.27	74.00	-15.73	peak	149		P	
2 *	4924.500	46.33	-0.50	45.83	54.00	-8.17	AVG	149		P	
3	7380.250	41.60	4.39	45.99	74.00	-28.01	peak	149		P	
4	7380.250	28.55	4.39	32.94	54.00	-21.06	AVG	149		P	
5	9848.000	35.84	8.10	43.94	74.00	-30.06	peak	149		P	
6	9848.000	24.55	8.10	32.65	54.00	-21.35	AVG	149		P	

Remark: 1.Margin= Level – Limit; Level=Test receiver reading + correction factor

2.The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

5 TEST SETUP PHOTOS

Please Refer to test setup file for Details.

6 PHOTOS OF THE EUT

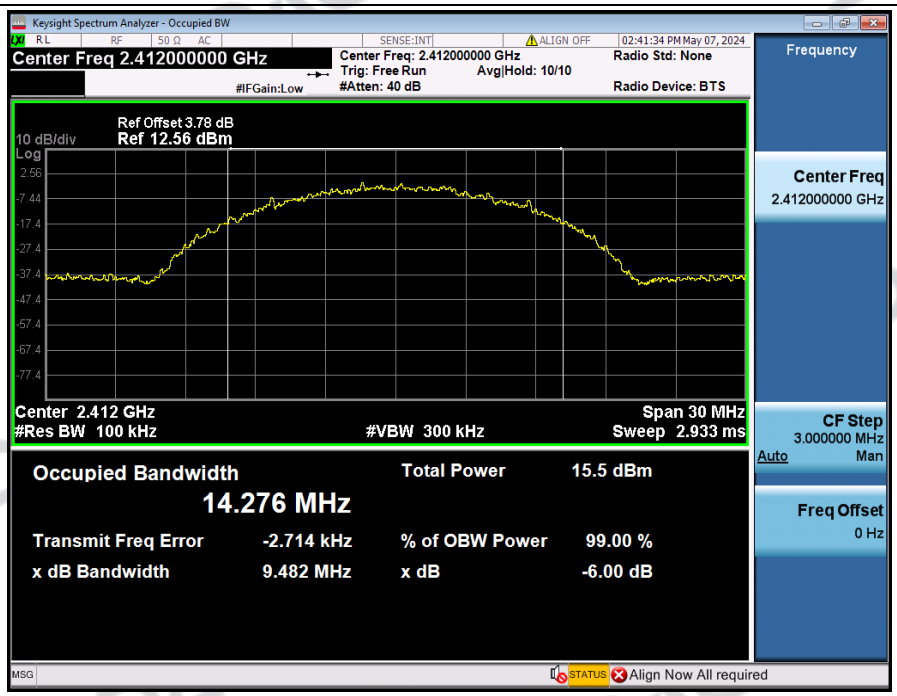
Please Refer to internal photos file and internal photos file for Details.

Appendix

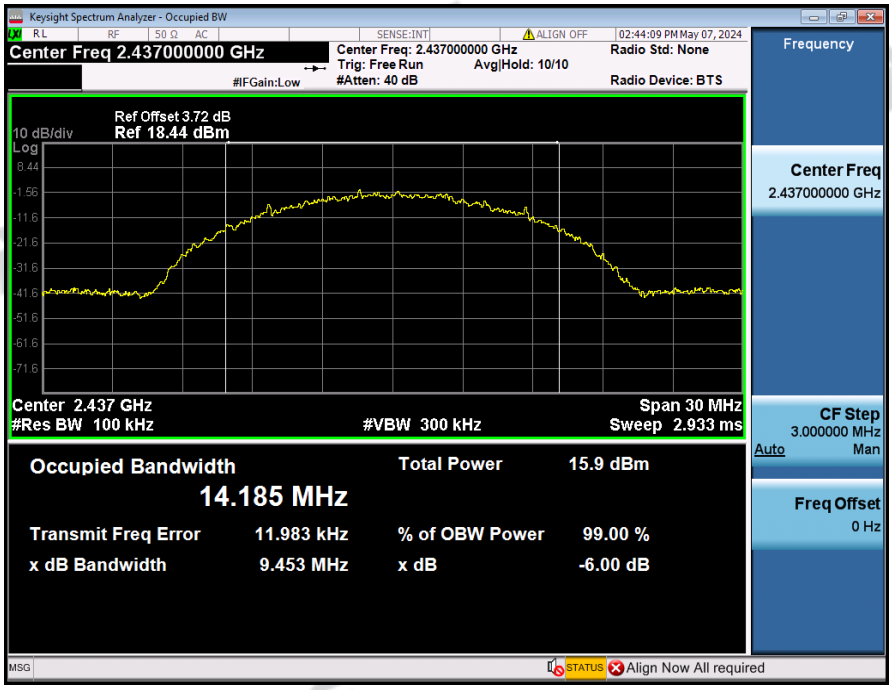
1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.48	500	Pass
NVNT	ANT1	802.11b	2437.00	9.45	500	Pass
NVNT	ANT1	802.11b	2462.00	9.46	500	Pass
NVNT	ANT1	802.11g	2412.00	15.36	500	Pass
NVNT	ANT1	802.11g	2437.00	15.36	500	Pass
NVNT	ANT1	802.11g	2462.00	15.36	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	15.19	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	15.19	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	15.19	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.21	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.21	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.20	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412

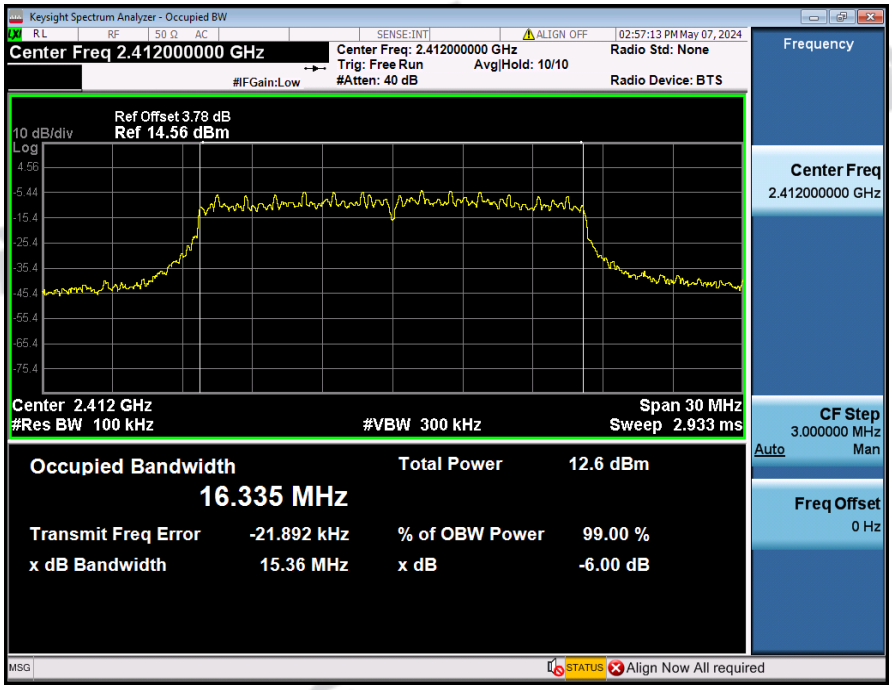


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

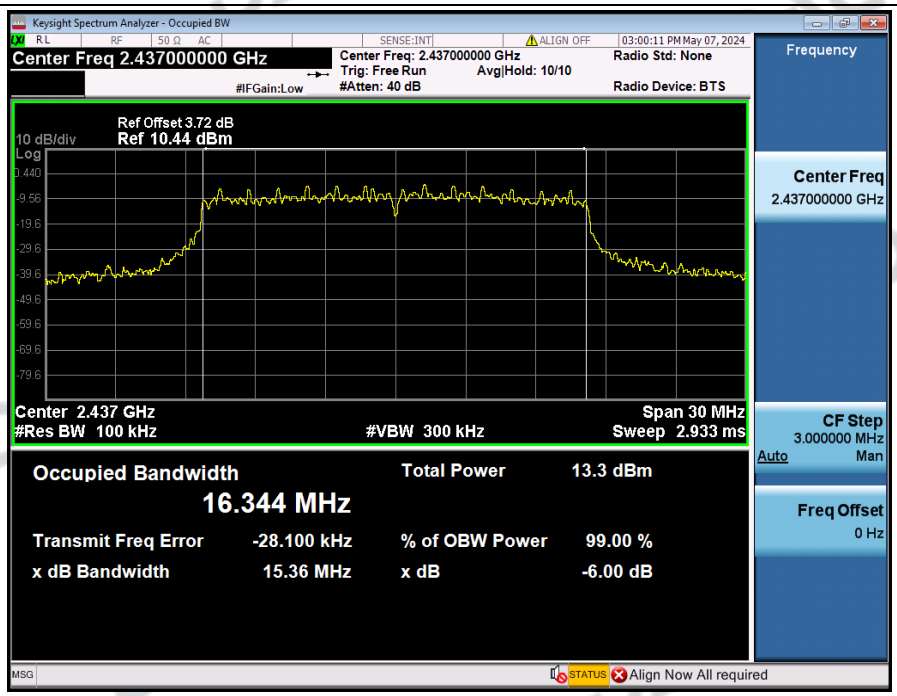


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462

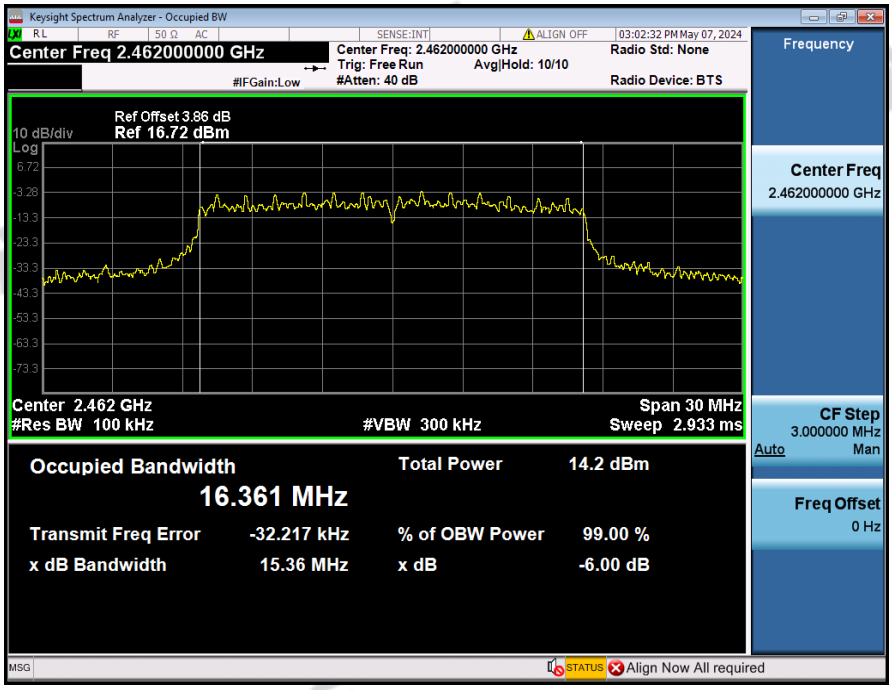
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



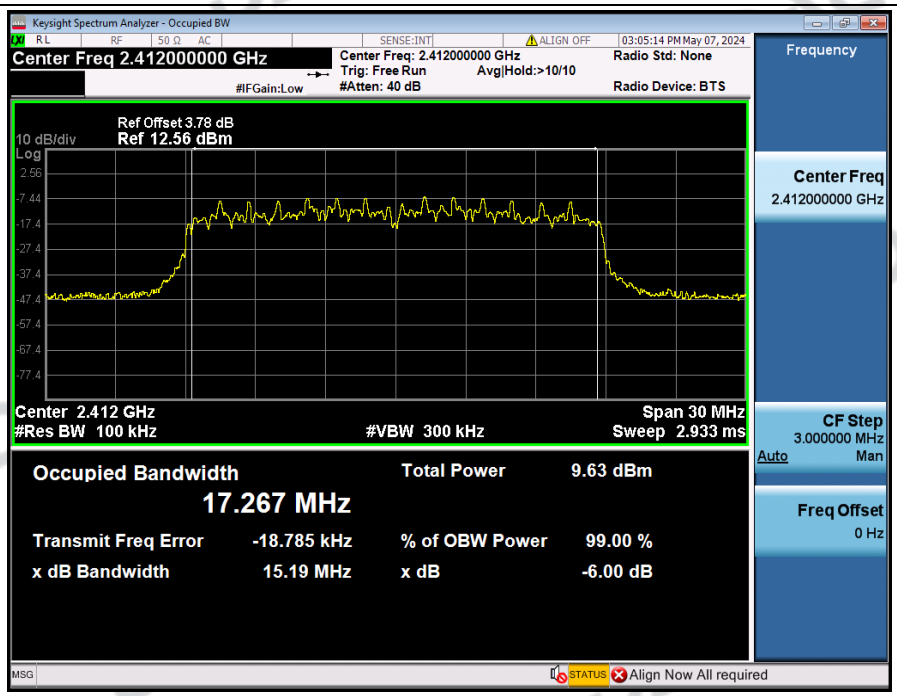
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



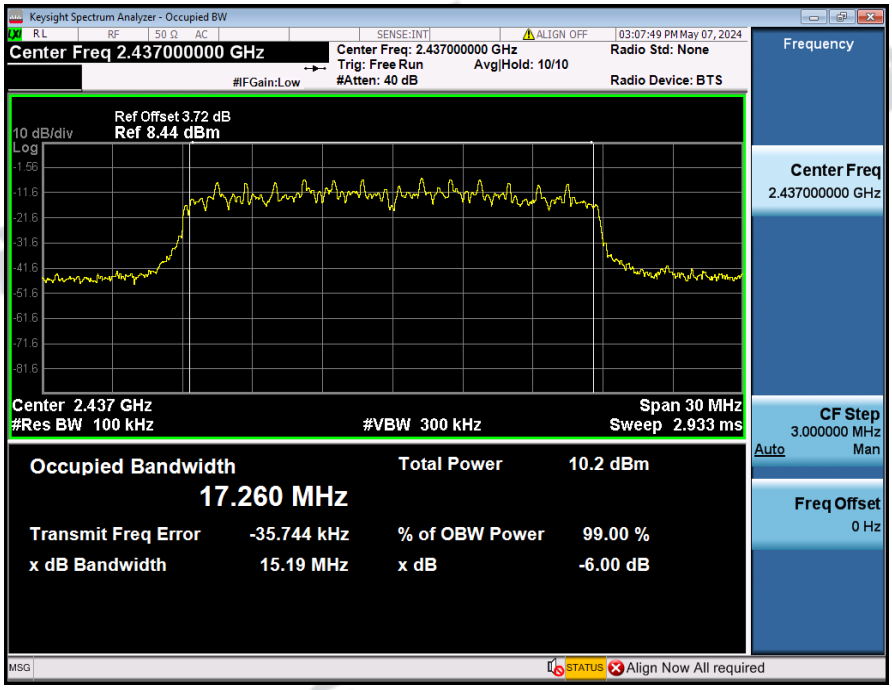
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



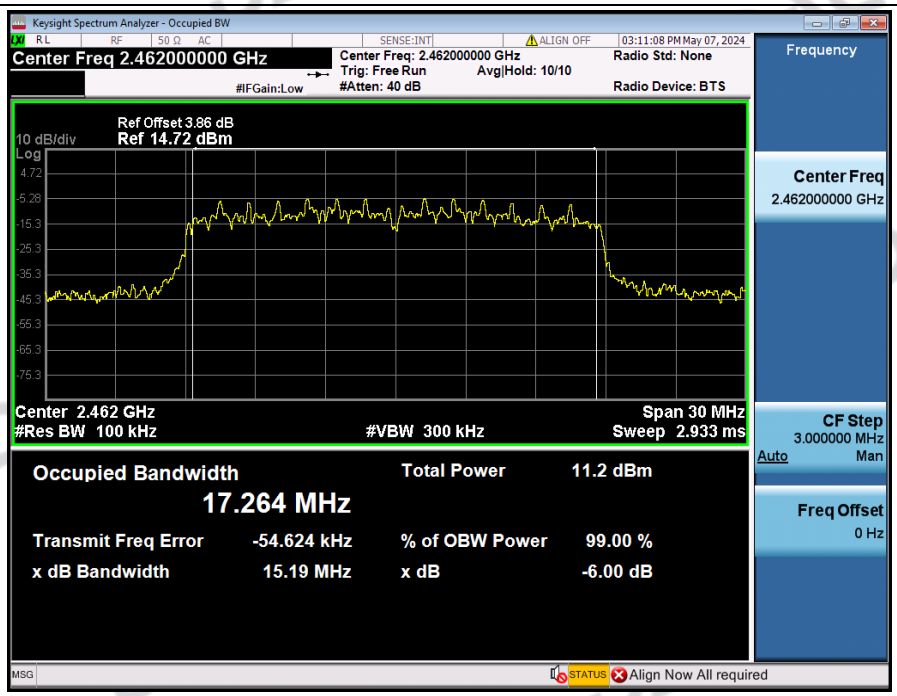
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



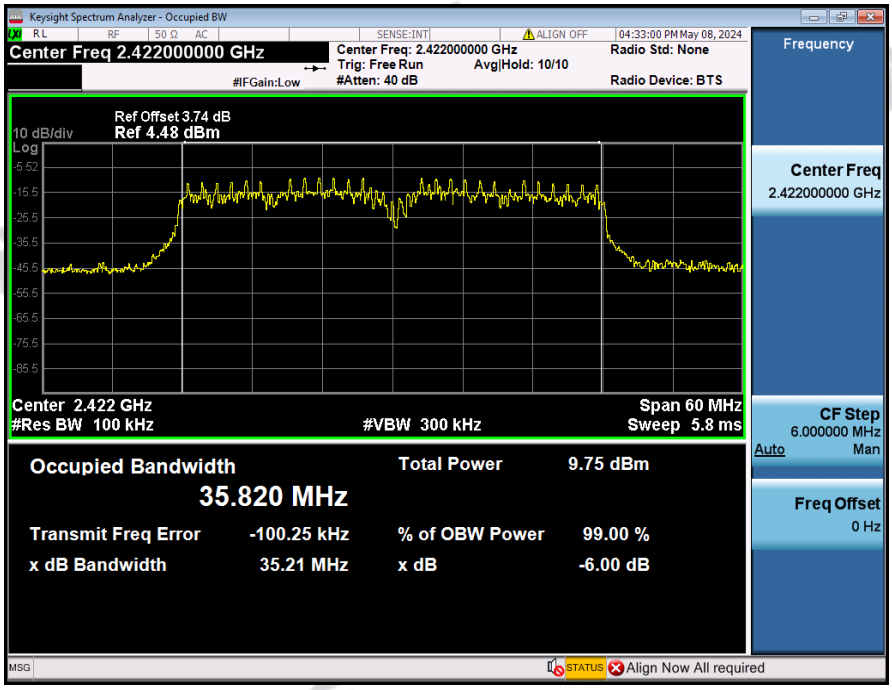
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



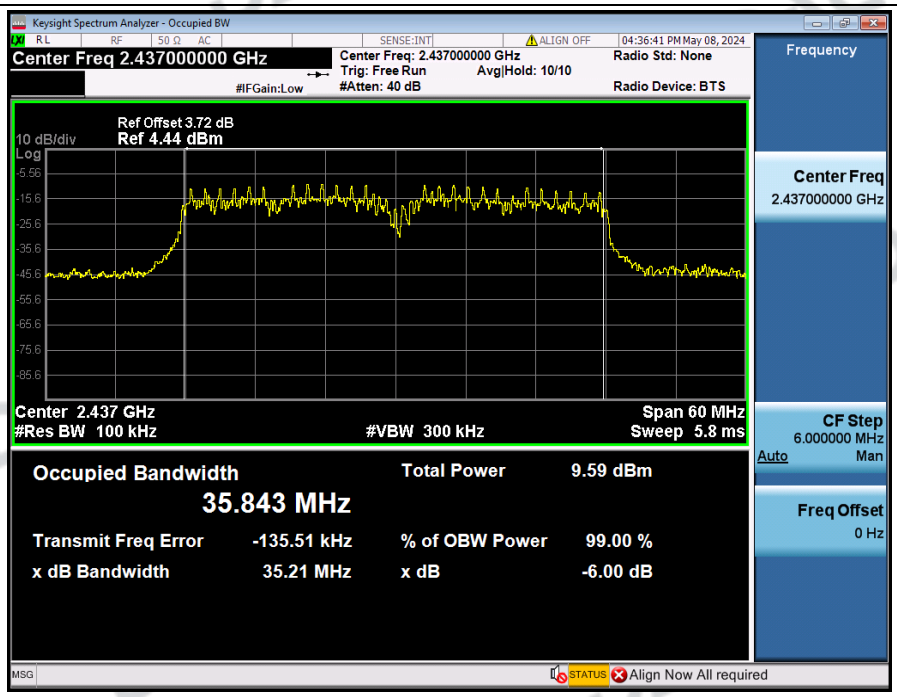
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



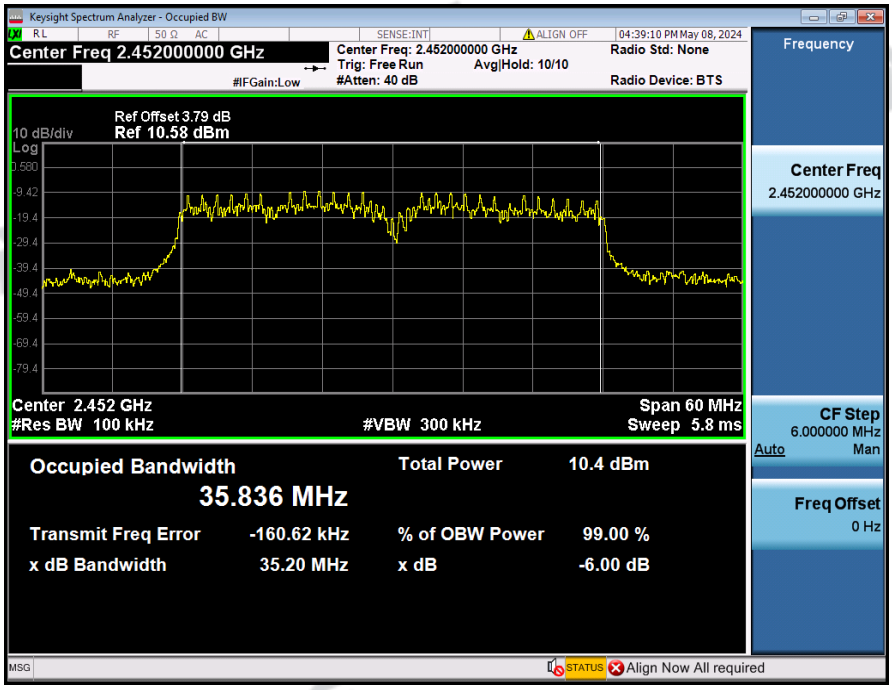
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



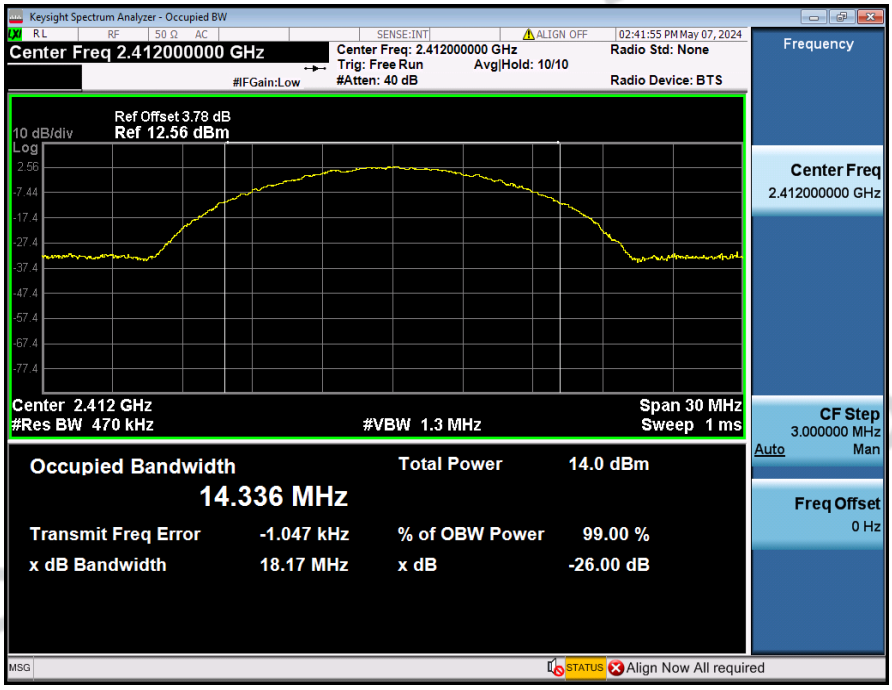
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:INT
ALIGN OFF
04:39:10 PM May 08, 2024
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#IFGain:Low
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 3.79 dB
10 dB/div
Ref 10.58 dBm
Log
0.580
-9.42
-19.4
-29.4
-39.4
-49.4
-59.4
-69.4
-79.4
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60 MHz
Sweep 5.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
35.836 MHz
Total Power
10.4 dBm
Transmit Freq Error
-160.62 kHz
% of OBW Power
99.00 %
x dB Bandwidth
35.20 MHz
x dB
-6.00 dB
Freq Offset
0 Hz
MSG
STATUS
Align Now All required

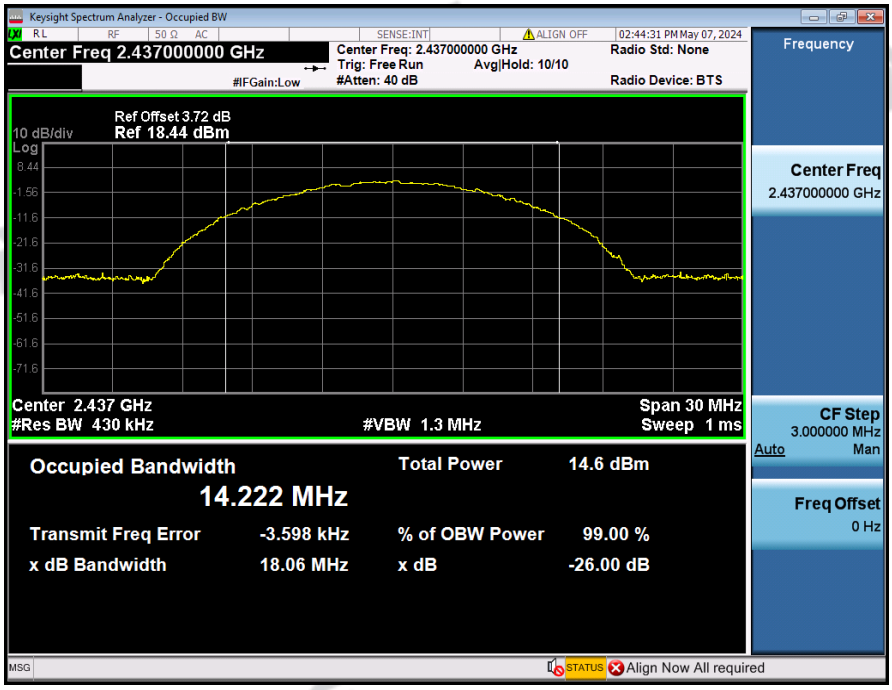
2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	14.336
NVNT	ANT1	802.11b	2437.00	14.222
NVNT	ANT1	802.11b	2462.00	14.312
NVNT	ANT1	802.11g	2412.00	16.503
NVNT	ANT1	802.11g	2437.00	16.535
NVNT	ANT1	802.11g	2462.00	16.640
NVNT	ANT1	802.11n(HT20)	2412.00	17.505
NVNT	ANT1	802.11n(HT20)	2437.00	17.511
NVNT	ANT1	802.11n(HT20)	2462.00	17.527
NVNT	ANT1	802.11n(HT40)	2422.00	36.329
NVNT	ANT1	802.11n(HT40)	2437.00	36.405
NVNT	ANT1	802.11n(HT40)	2452.00	36.330

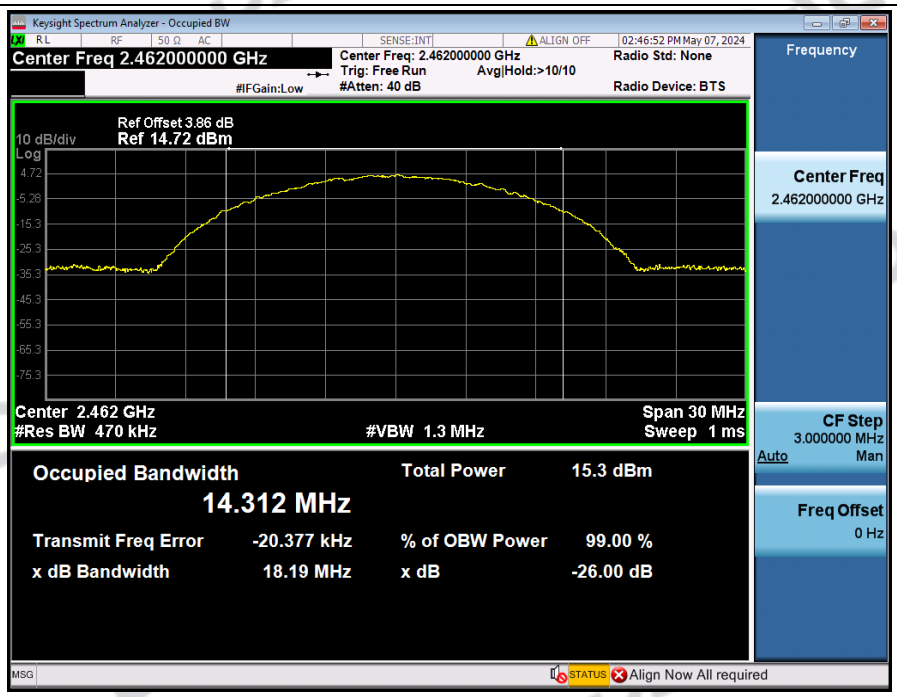
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



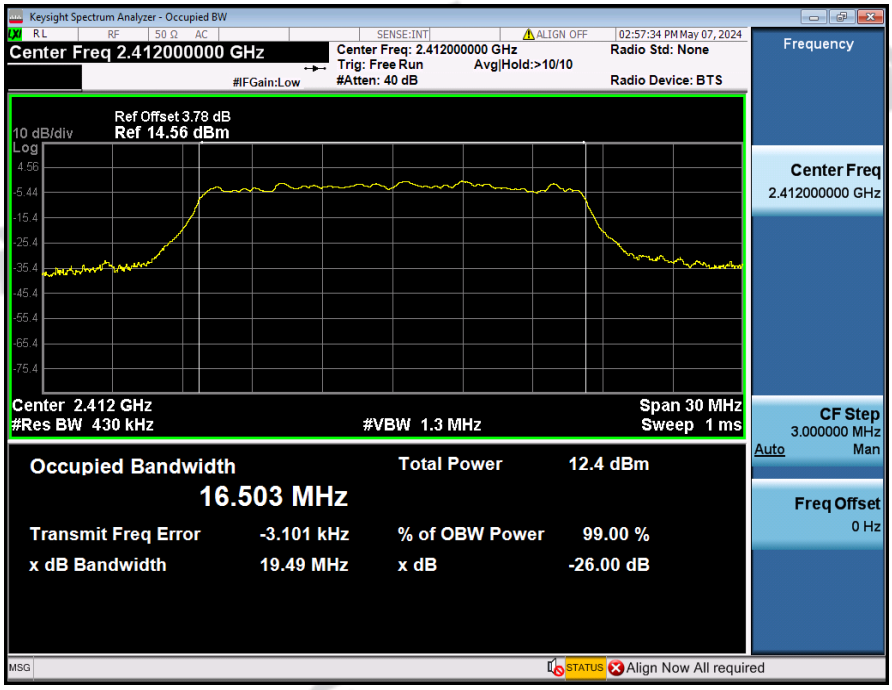
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



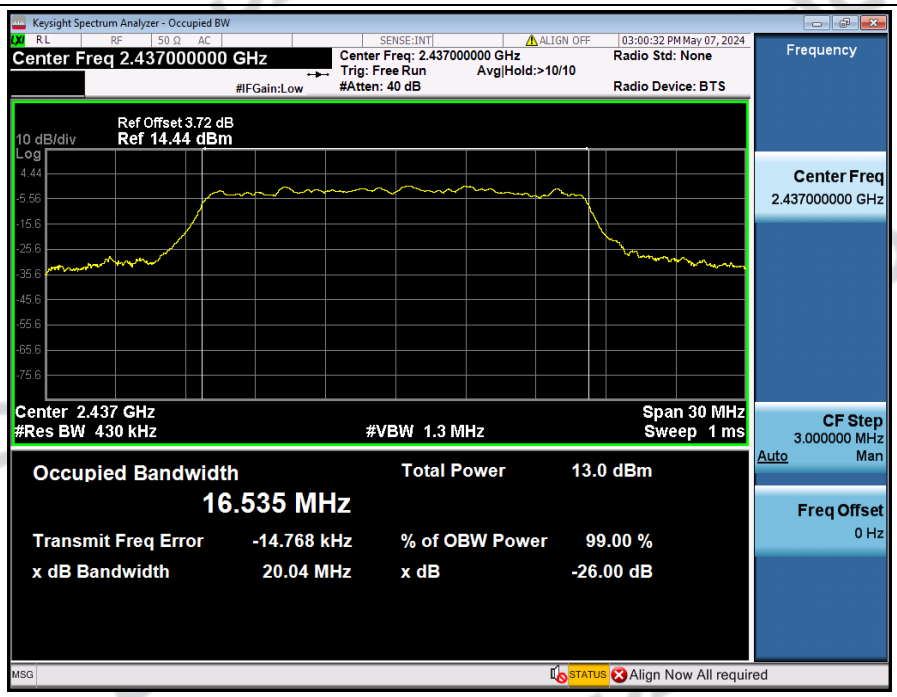
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



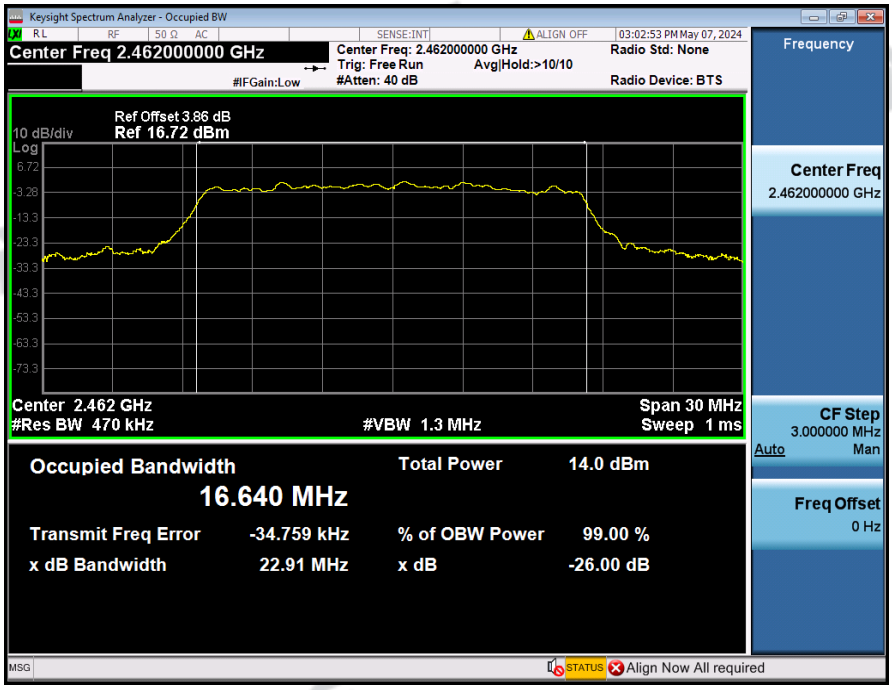
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



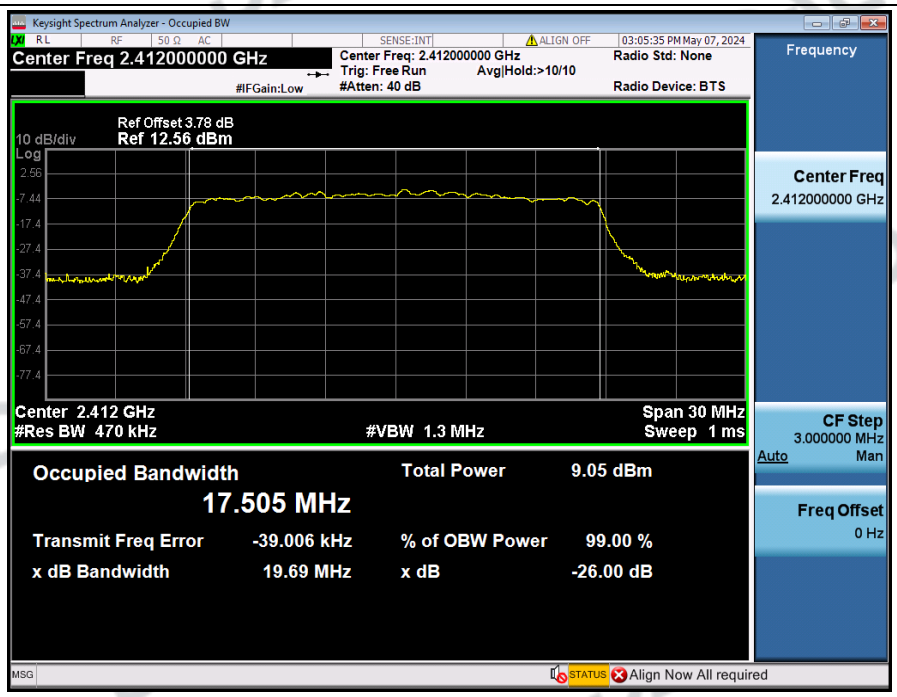
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2437



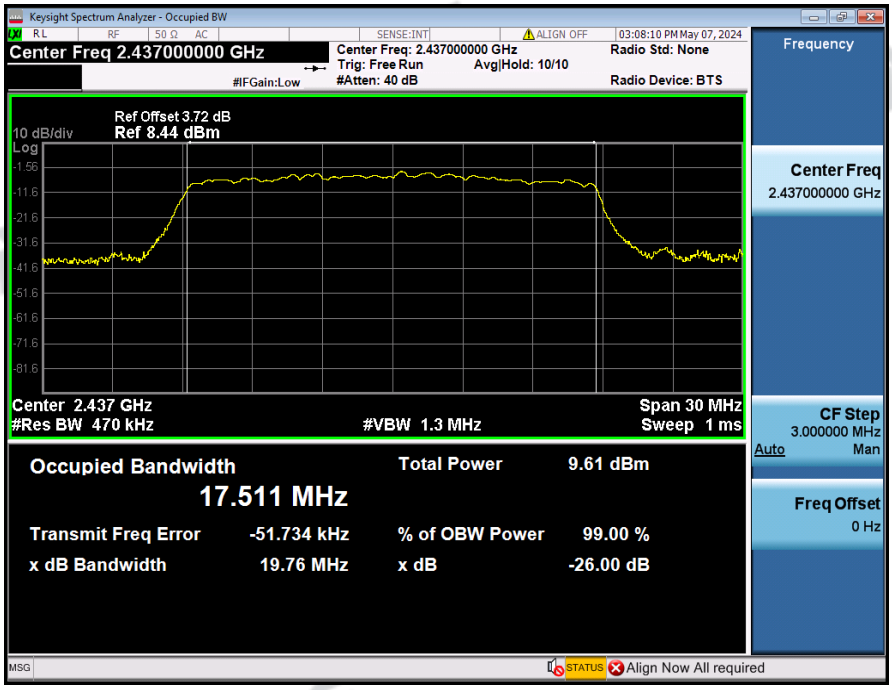
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



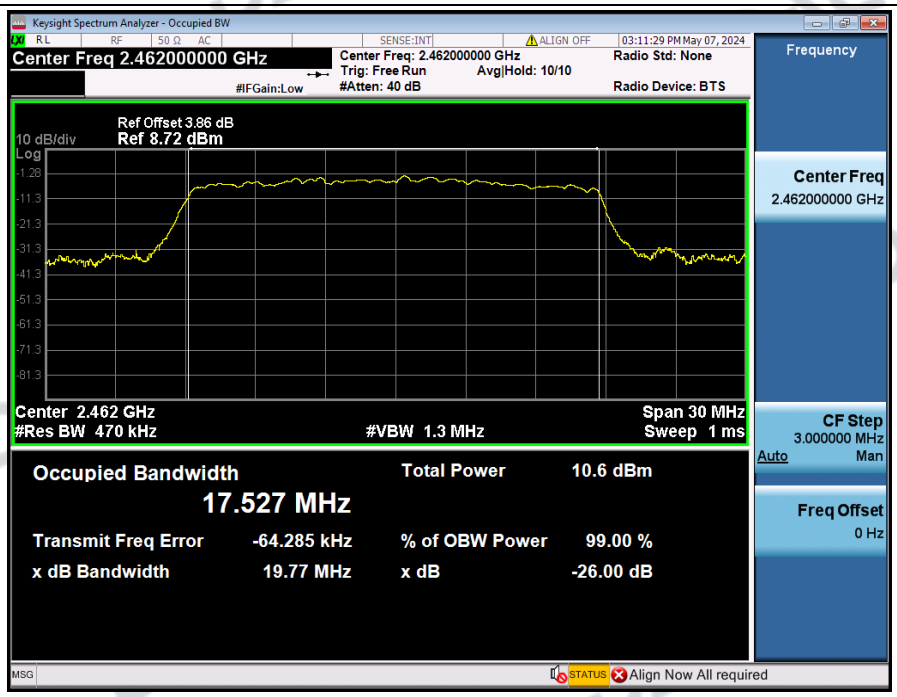
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



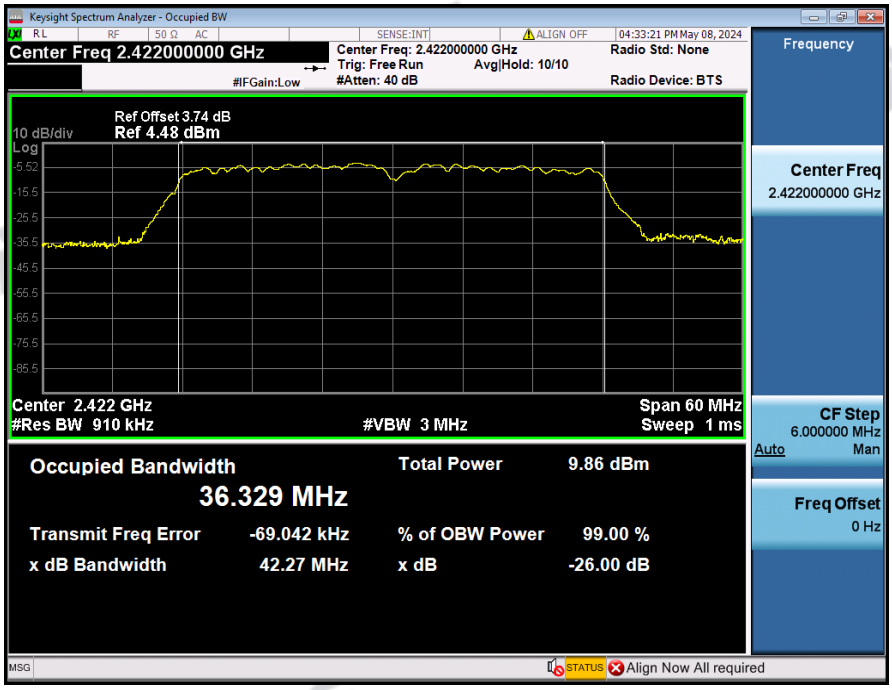
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

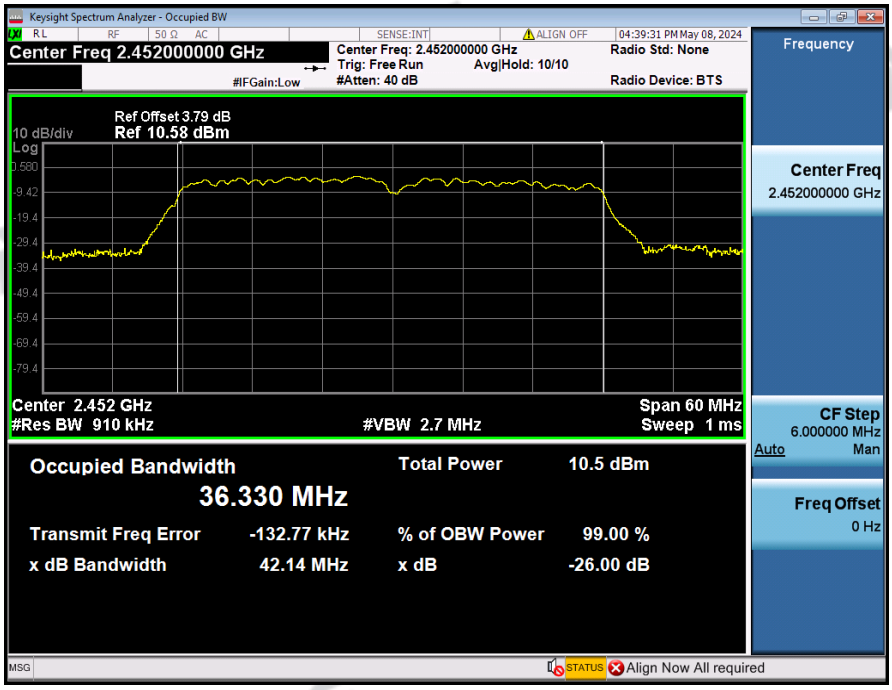


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

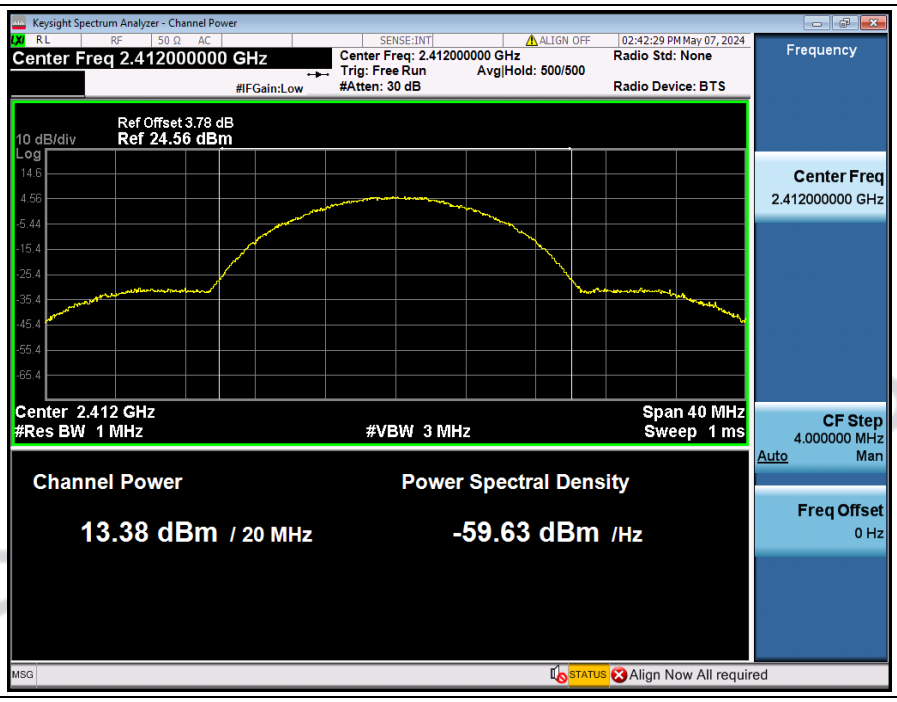
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:INT
ALIGN OFF
04:39:31 PM May 08, 2024
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#IFGain:Low
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 3.79 dB
10 dB/div
Ref 10.58 dBm
Log
0.580
-9.42
-19.4
-29.4
-39.4
-49.4
-59.4
-69.4
-79.4
Center 2.452 GHz
#Res BW 910 kHz
#VBW 2.7 MHz
Span 60 MHz
Sweep 1 ms
Occupied Bandwidth
36.330 MHz
Total Power 10.5 dBm
Transmit Freq Error -132.77 kHz
% of OBW Power 99.00 %
x dB Bandwidth 42.14 MHz
x dB -26.00 dB
Center Freq
2.452000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Align Now All required

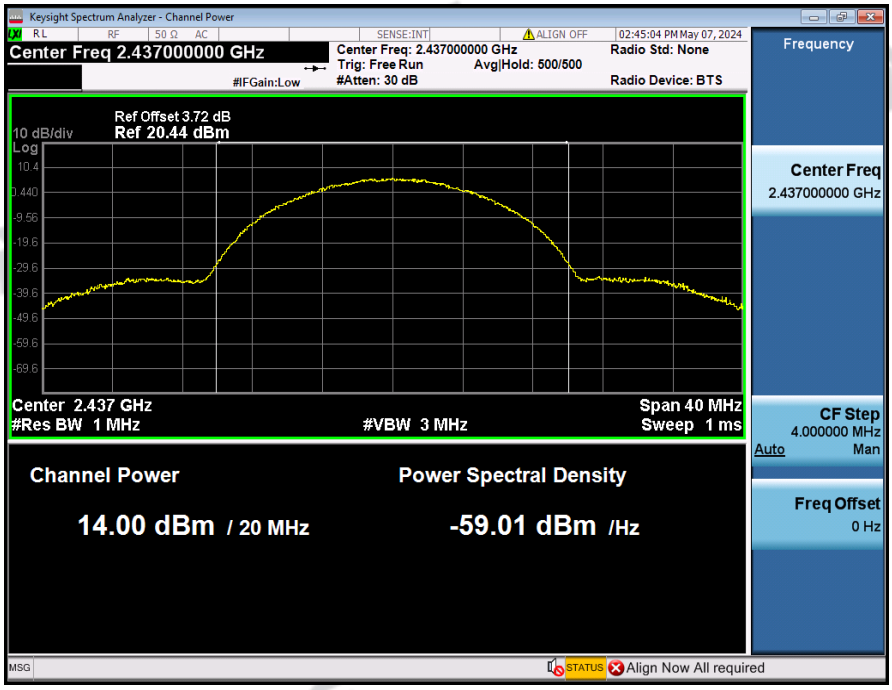
3. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	13.38	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	14.00	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	14.80	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	13.02	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	13.68	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	14.46	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	9.84	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	10.32	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	11.32	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	9.81	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	9.72	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	10.49	30	Pass

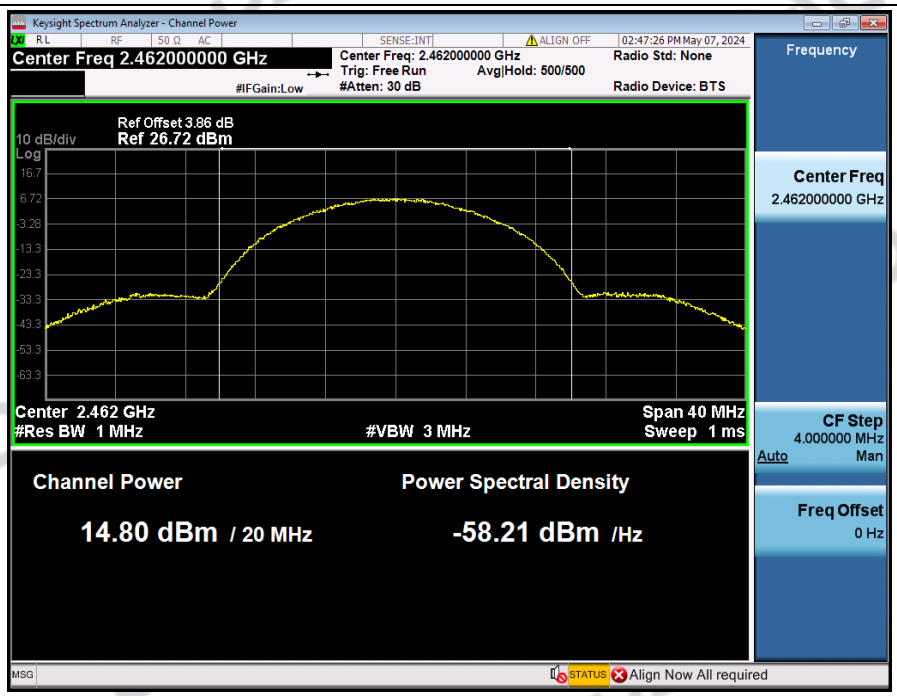
MAX__Output_Power_NVNT_ANT1_802_11b_2412



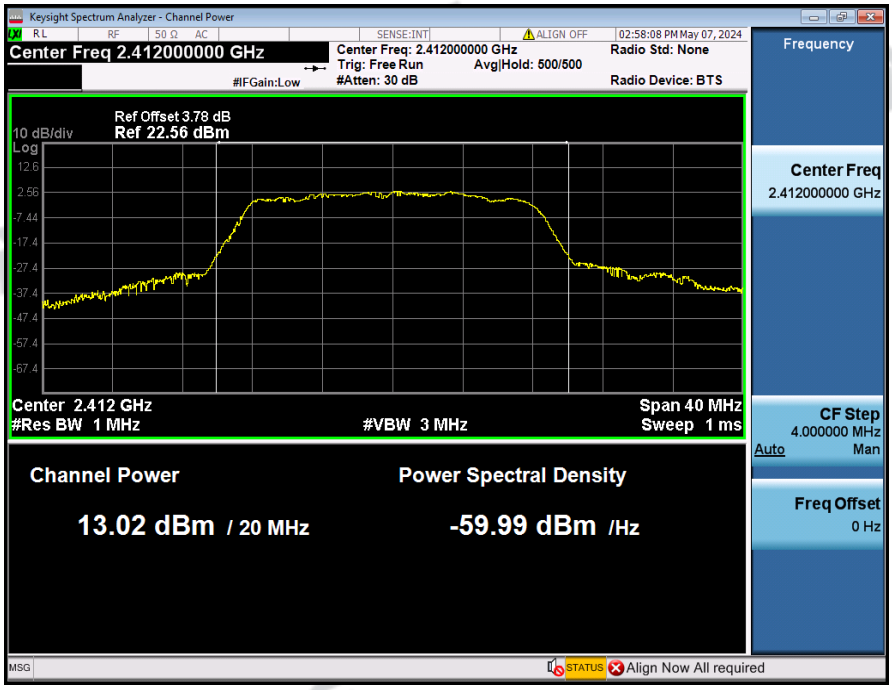
MAX__Output_Power_NVNT_ANT1_802_11b_2437



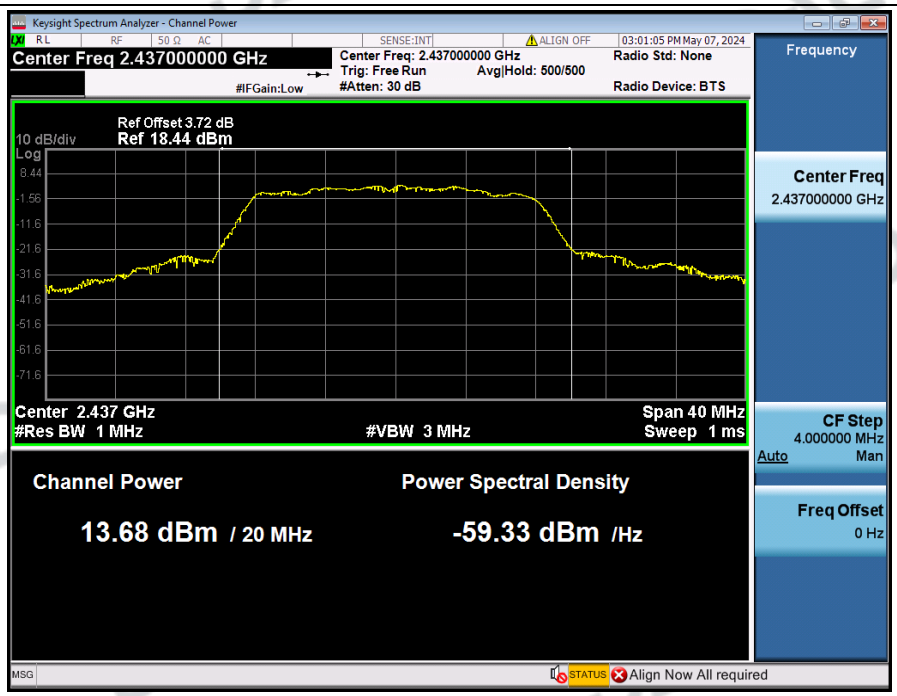
MAX__Output_Power_NVNT_ANT1_802_11b_2462



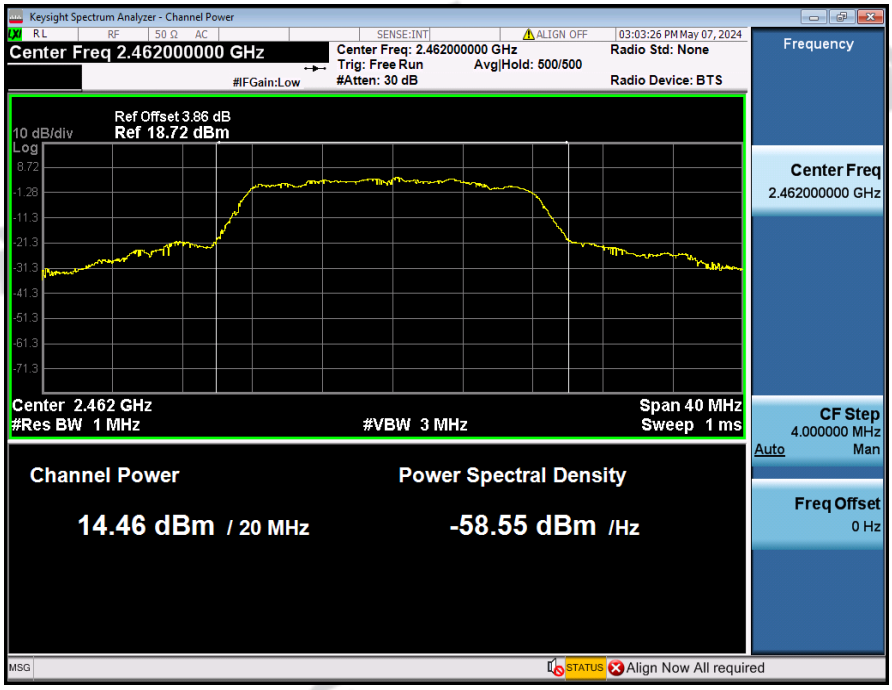
MAX__Output_Power_NVNT_ANT1_802_11g_2412



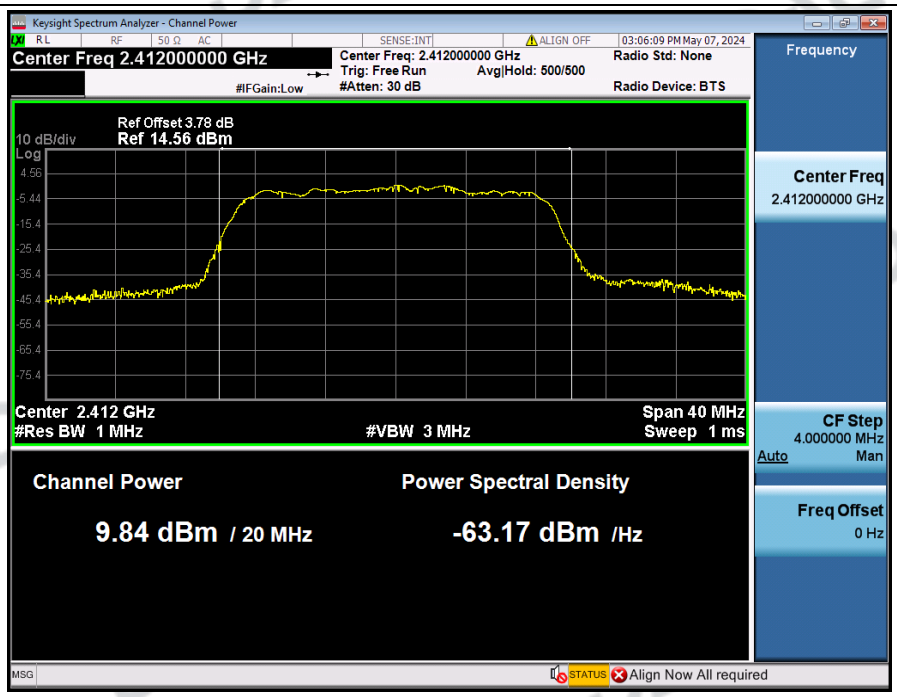
MAX__Output_Power_NVNT_ANT1_802_11g_2437



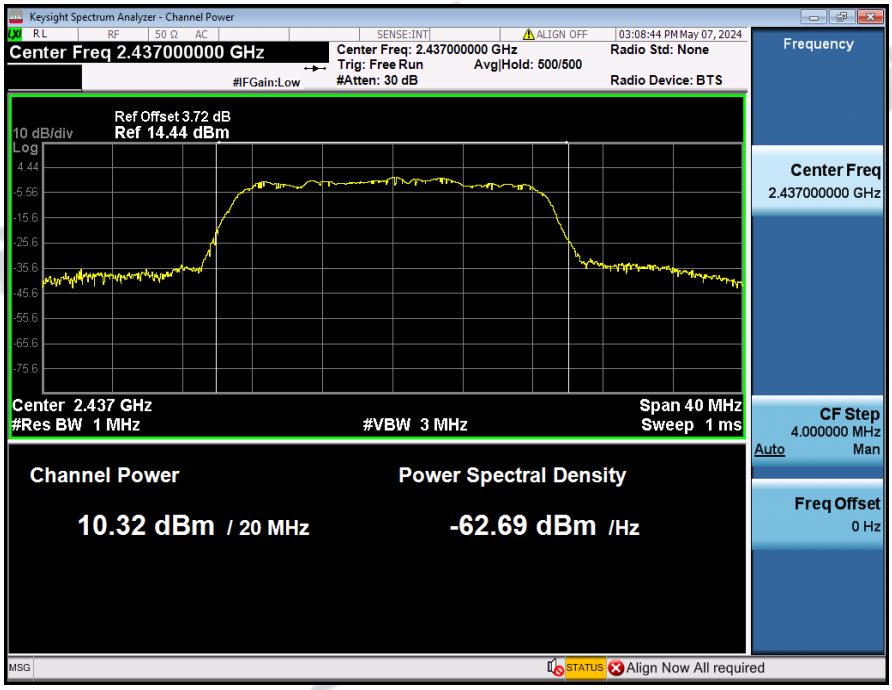
MAX__Output_Power_NVNT_ANT1_802_11g_2462



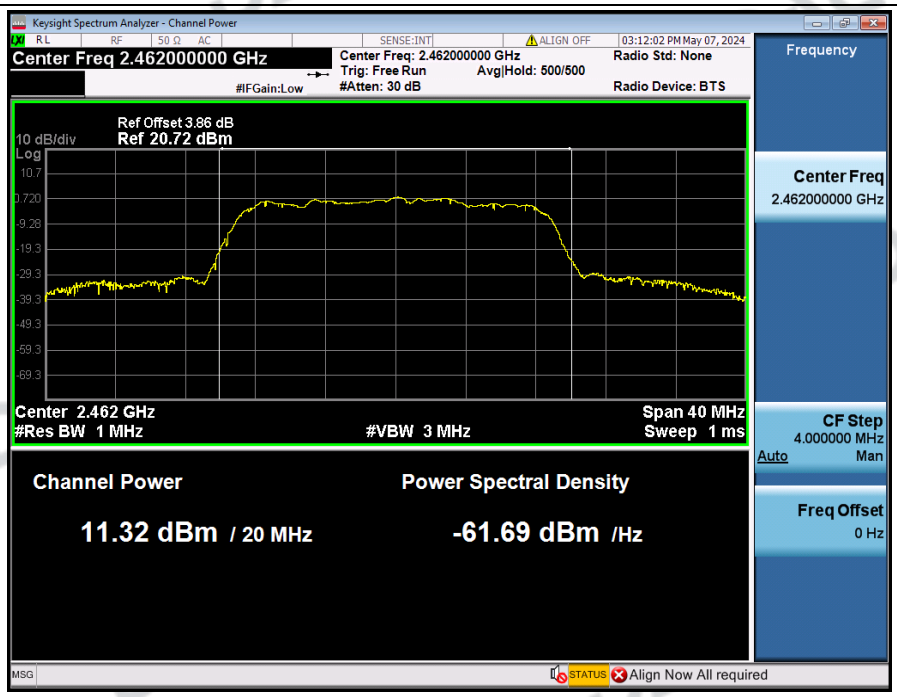
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



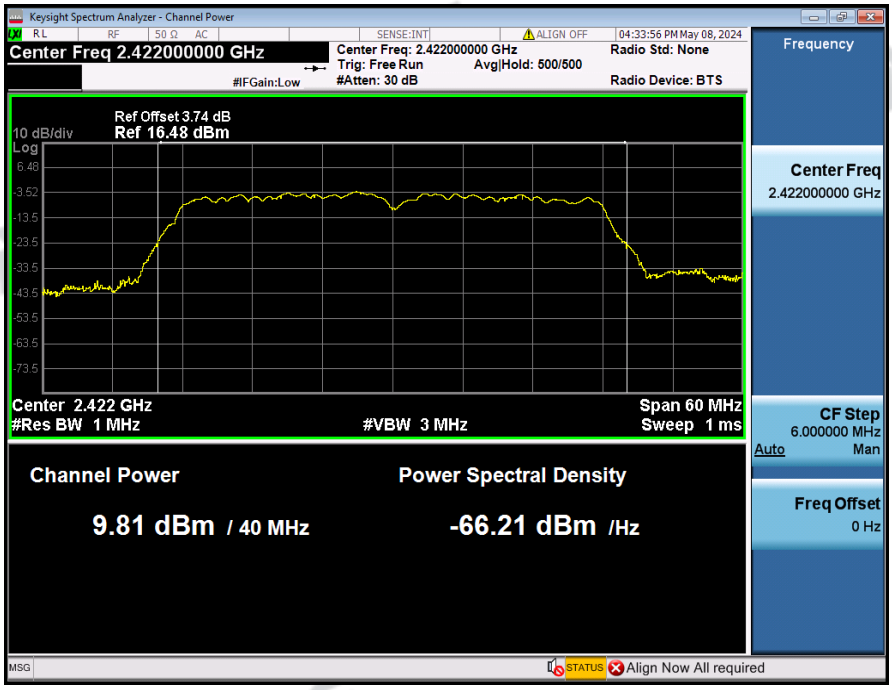
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



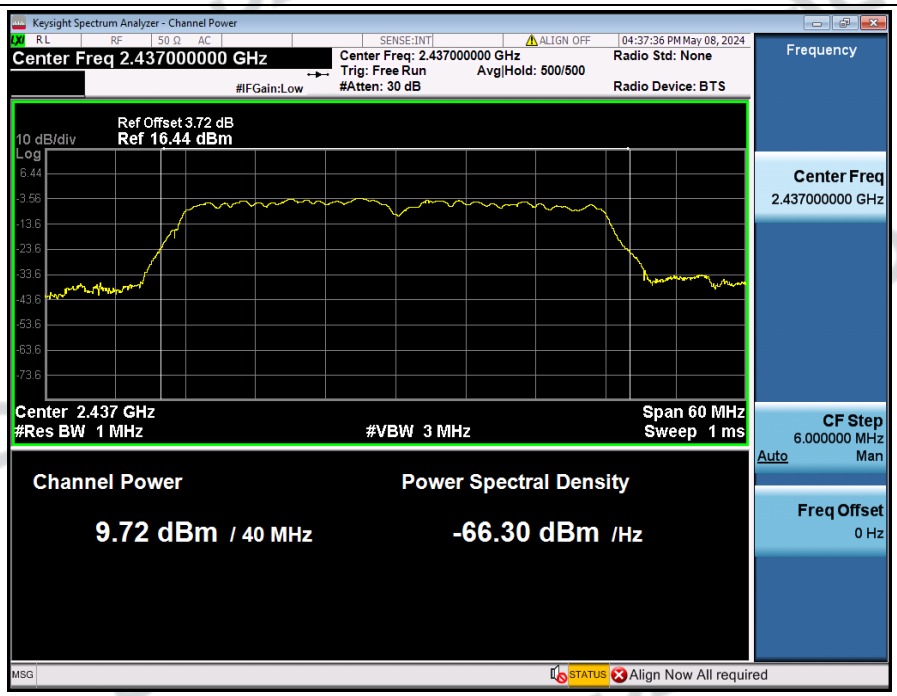
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



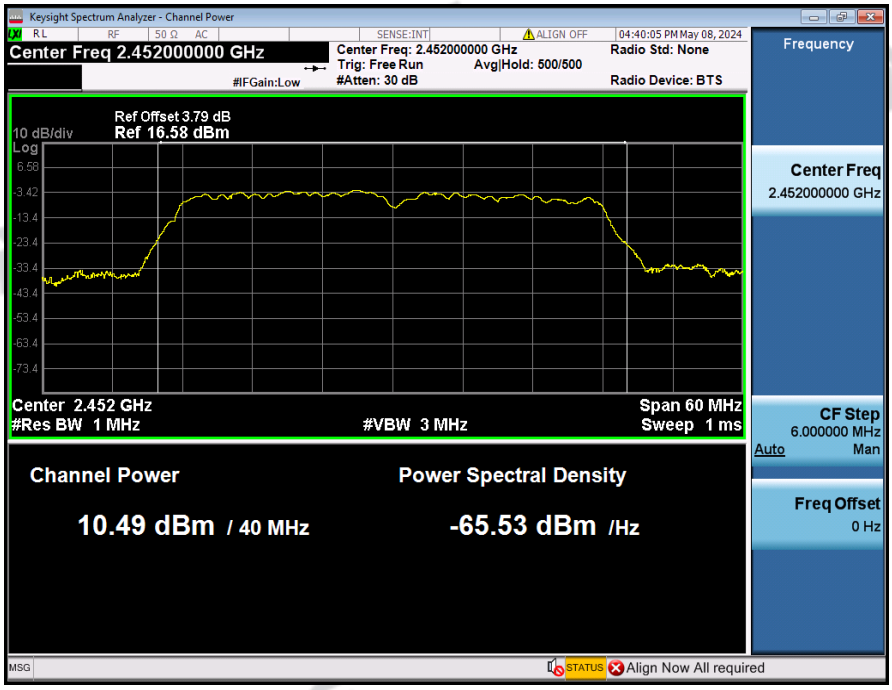
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



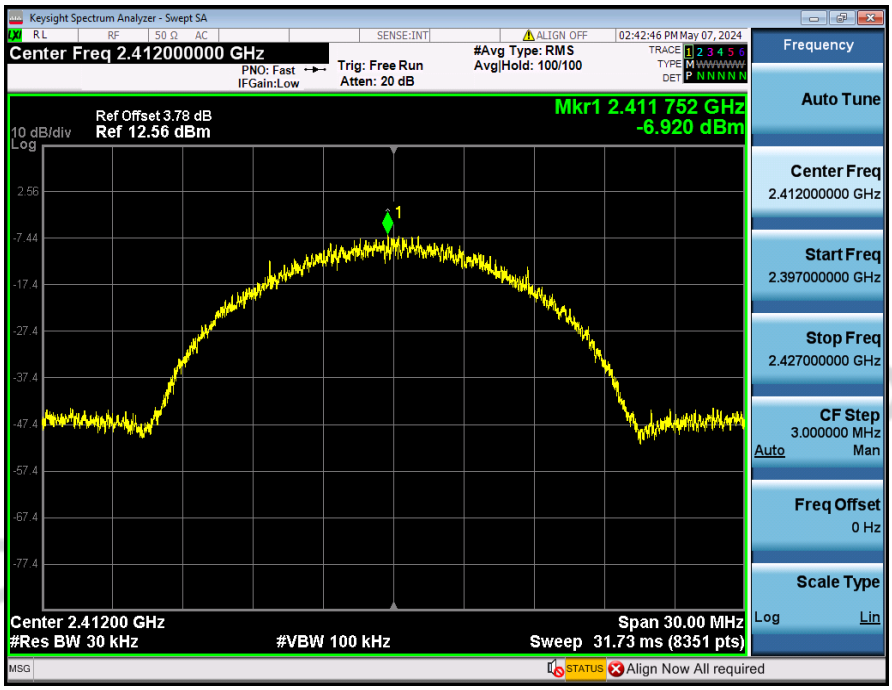
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω AC
SENSE:INT
ALIGN OFF
04:40:05 PM May 08, 2024
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 500/500
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 3.79 dB
10 dB/div
Ref 16.58 dBm
Log
6.58
-3.42
-13.4
-23.4
-33.4
-43.4
-53.4
-63.4
-73.4
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
Sweep 1 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
10.49 dBm / 40 MHz
Power Spectral Density
-65.53 dBm /Hz
Freq Offset
0 Hz
MSG
STATUS
Align Now All required

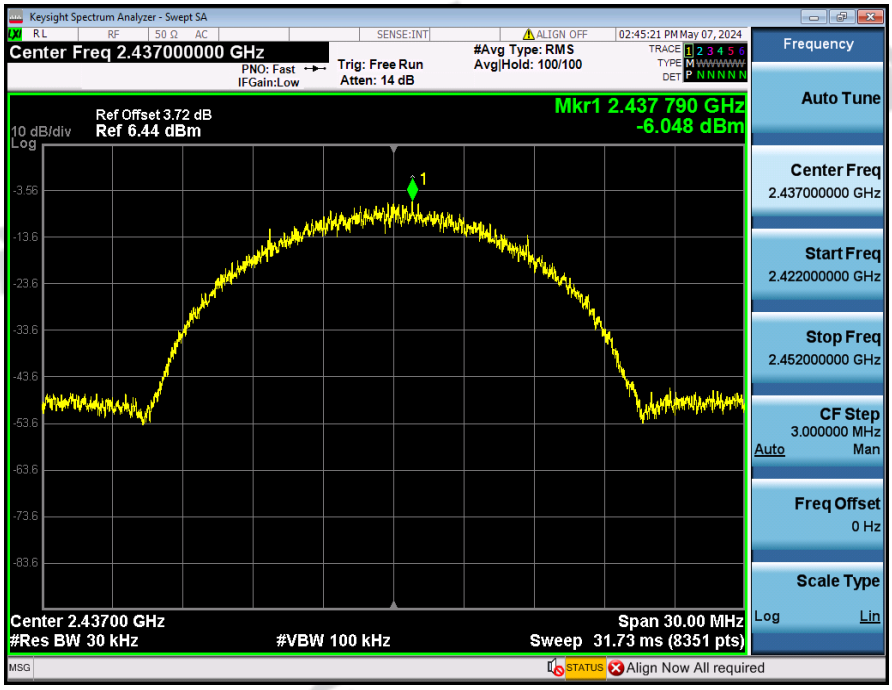
4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD (dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-6.92	-10.00	-16.92	8	Pass
NVNT	ANT1	802.11b	2437.00	-6.05	-10.00	-16.05	8	Pass
NVNT	ANT1	802.11b	2462.00	-5.45	-10.00	-15.45	8	Pass
NVNT	ANT1	802.11g	2412.00	-10.32	-10.00	-20.32	8	Pass
NVNT	ANT1	802.11g	2437.00	-9.66	-10.00	-19.66	8	Pass
NVNT	ANT1	802.11g	2462.00	-8.78	-10.00	-18.78	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-11.51	-10.00	-21.51	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-11.04	-10.00	-21.04	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-10.06	-10.00	-20.06	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-14.71	-10.00	-24.71	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-14.80	-10.00	-24.80	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-13.99	-10.00	-23.99	8	Pass

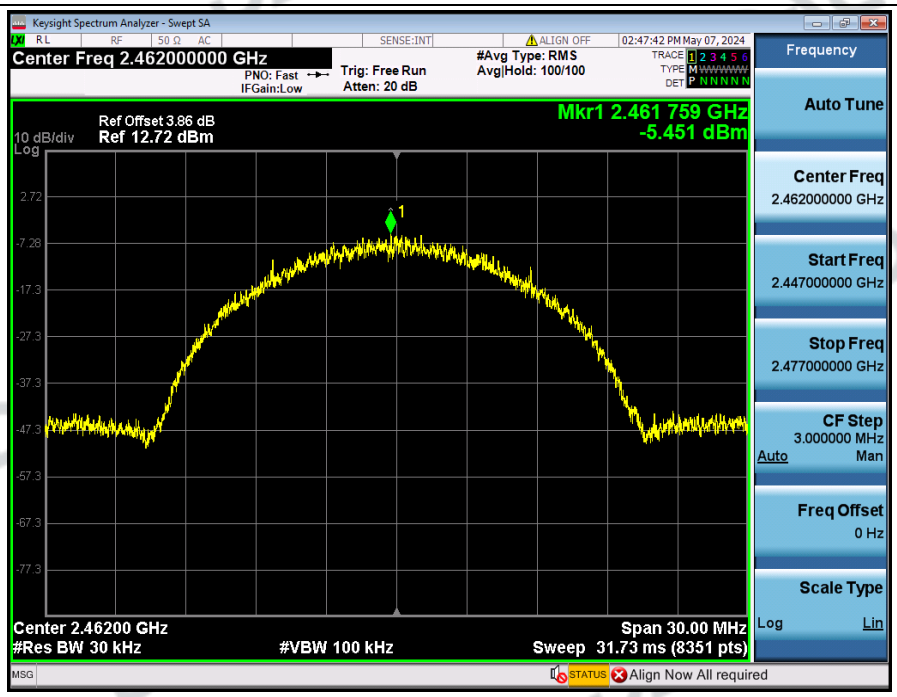
Power_Spectral_Density_NVNT_ANT1_802_11b_2412



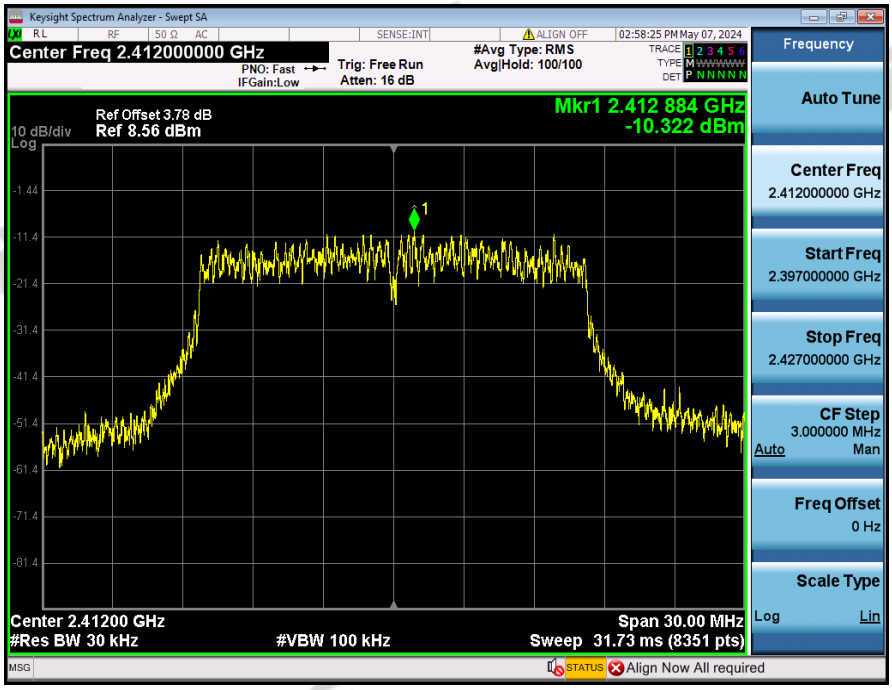
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



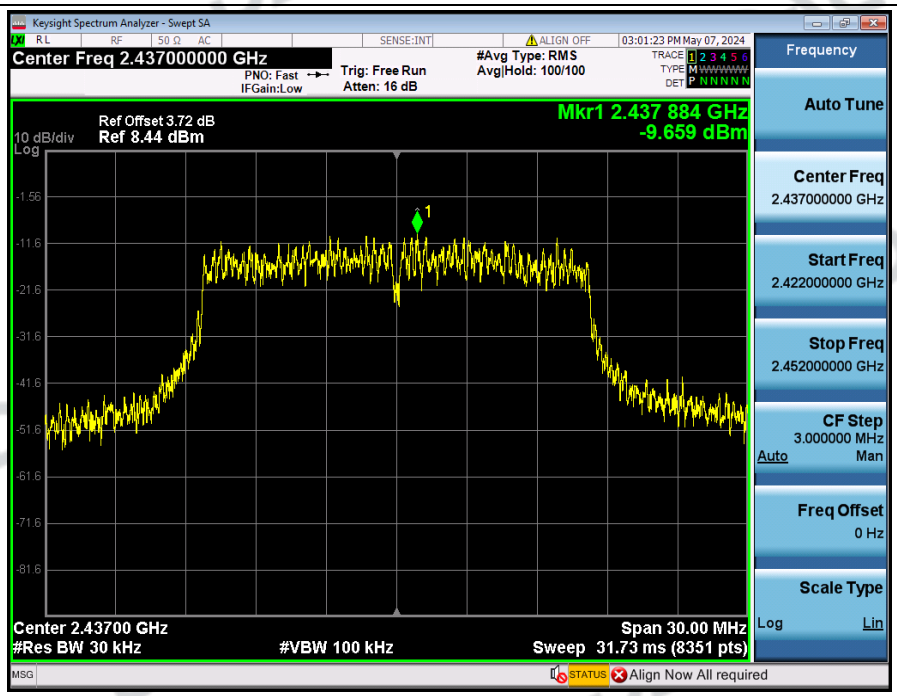
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



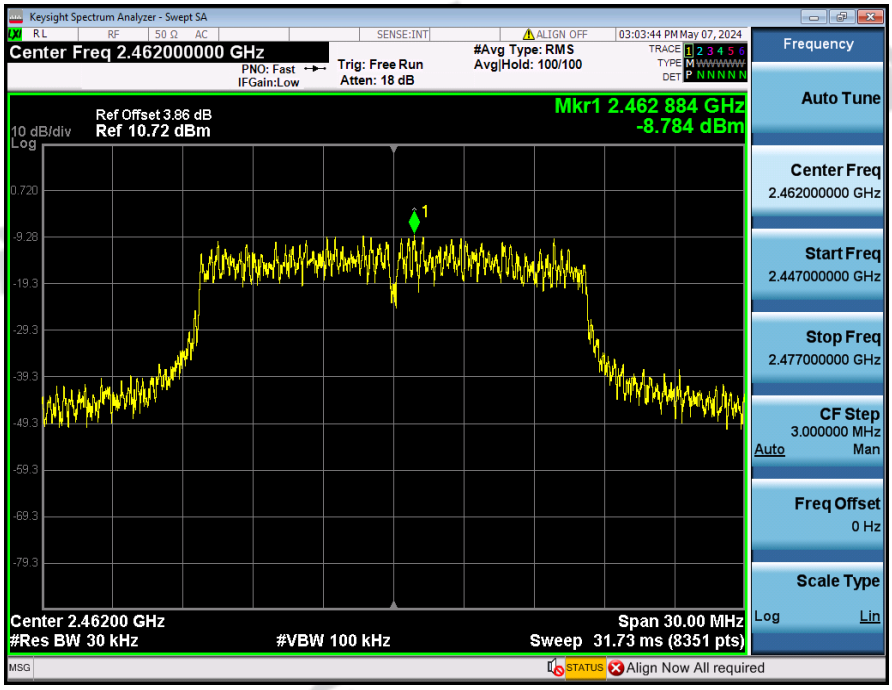
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



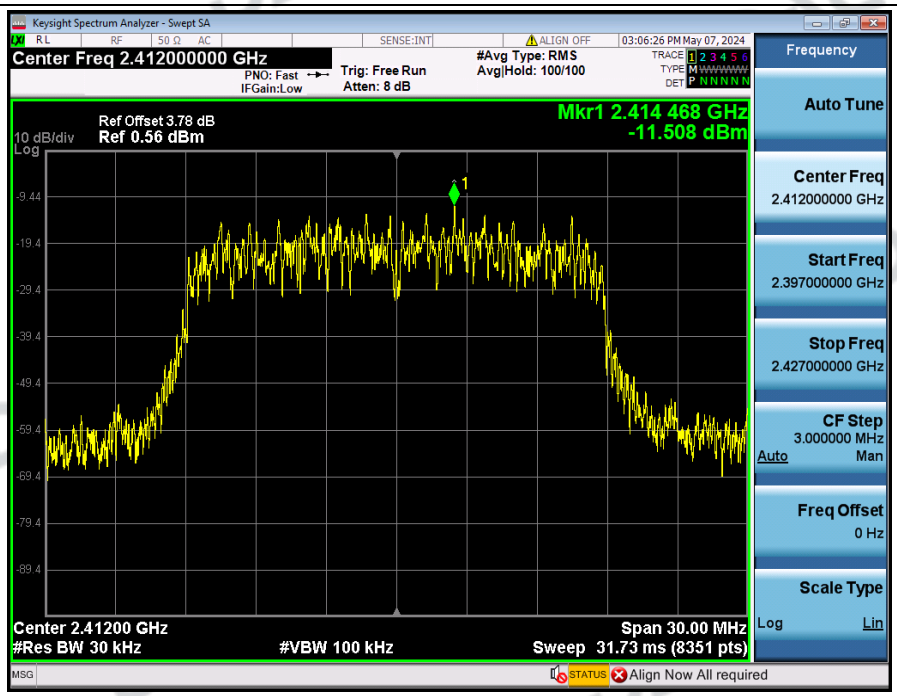
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



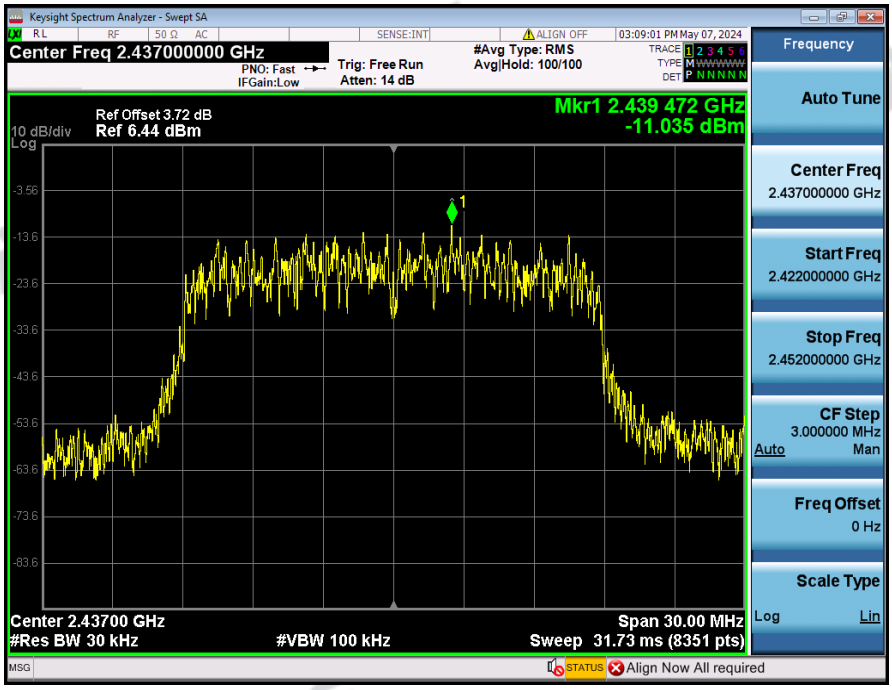
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



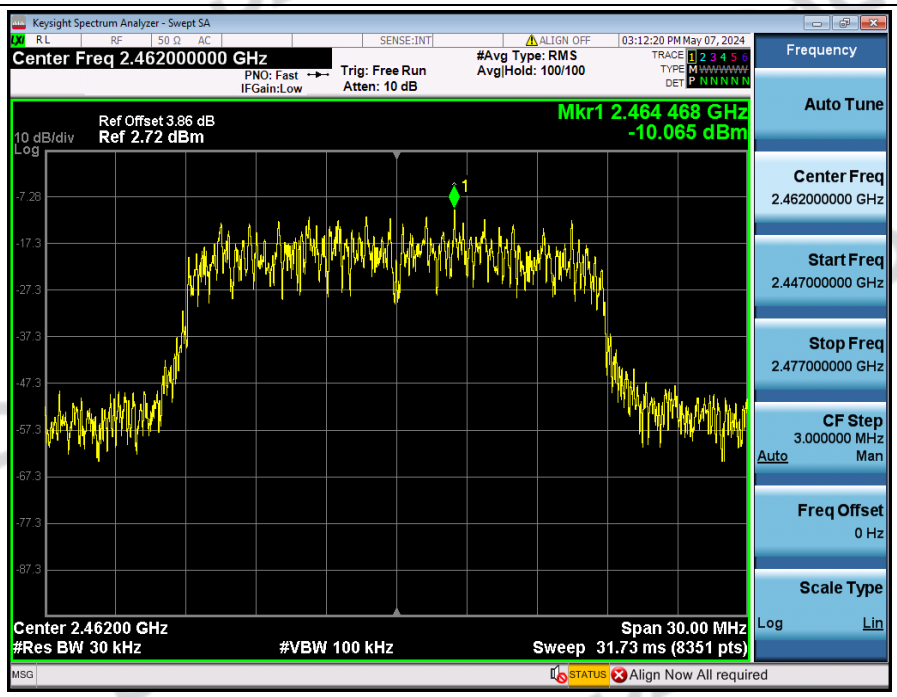
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



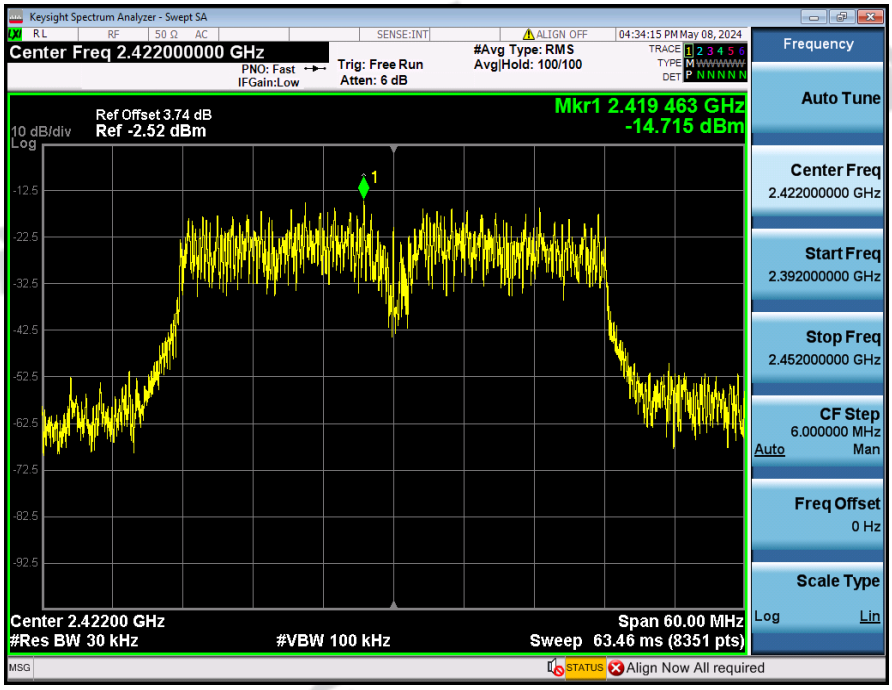
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



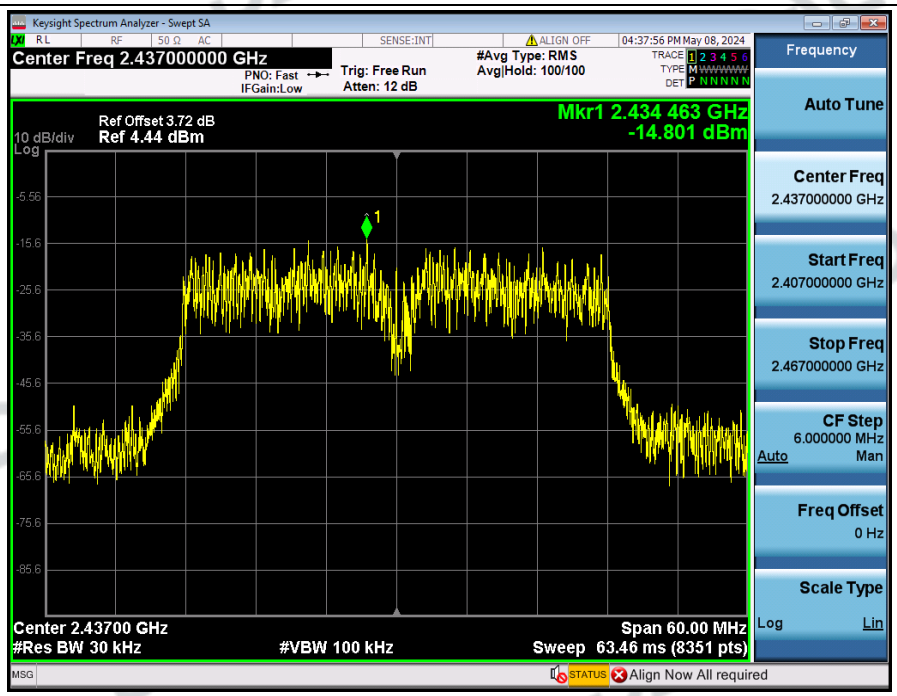
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



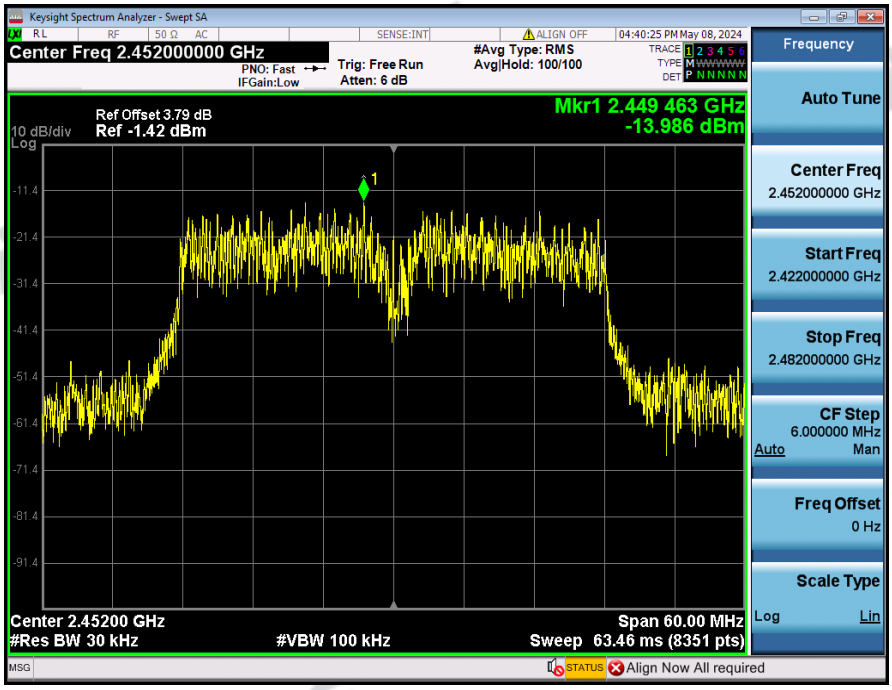
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



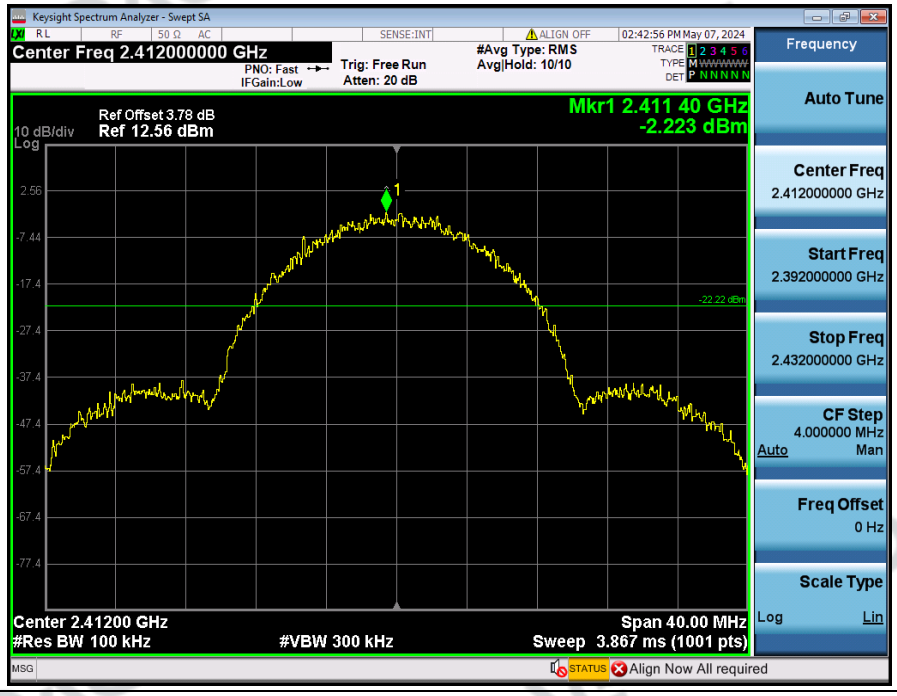
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.452000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 6 dB
#Avg Type: RMS
Avg|Hold: 100/100
04:40:25 PM May 08, 2024
Ref Offset 3.79 dB
10 dB/div
Log
Ref -1.42 dBm
Mkr1 2.449 463 GHz
-13.986 dBm
Center 2.45200 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 60.00 MHz
Sweep 63.46 ms (8351 pts)
Align Now All required
Frequency
Auto Tune
Center Freq
2.452000000 GHz
Start Freq
2.422000000 GHz
Stop Freq
2.482000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

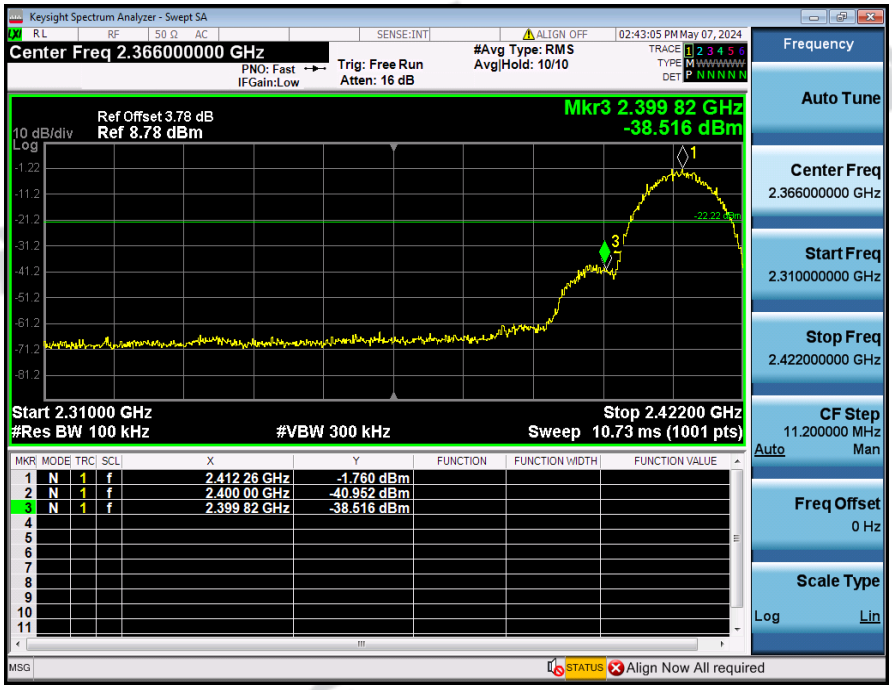
5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.824	-38.516	-22.223	Pass
NVNT	ANT1	802.11b	2462.00	2487.184	-63.852	-19.987	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-42.756	-24.597	Pass
NVNT	ANT1	802.11g	2462.00	2483.920	-47.403	-22.849	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2397.024	-50.797	-26.531	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.920	-54.211	-24.996	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2396.988	-46.692	-30.049	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-45.119	-28.995	Pass

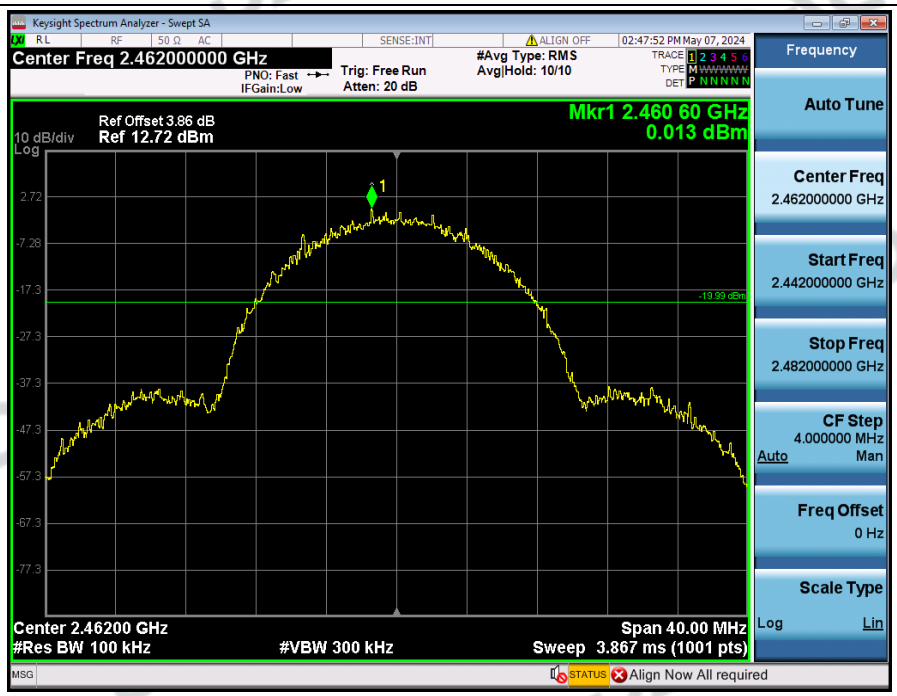
1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412

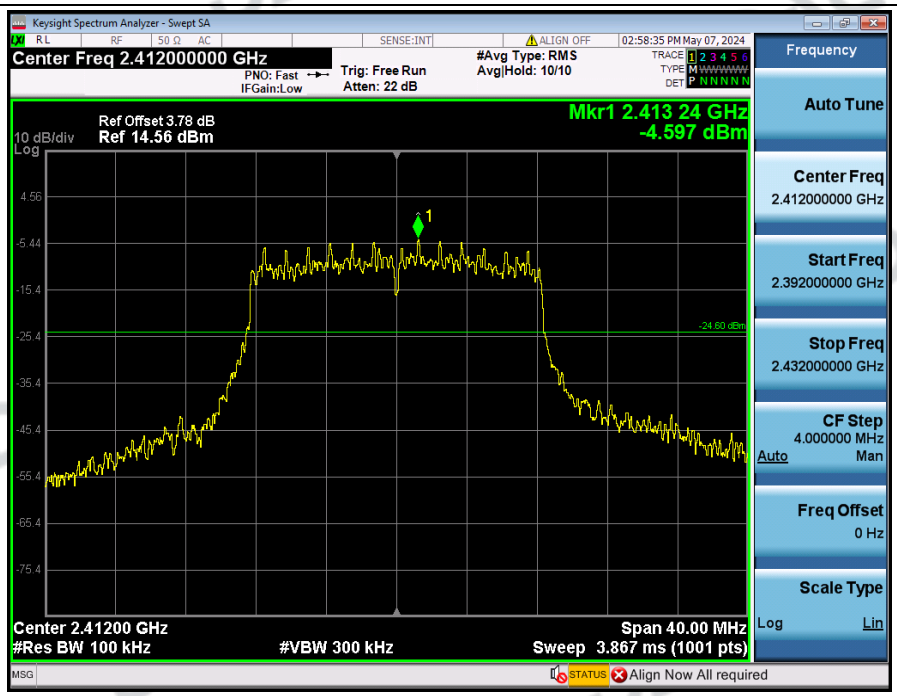


1_Reference_Level_NVNT_ANT1_802_11b_2462

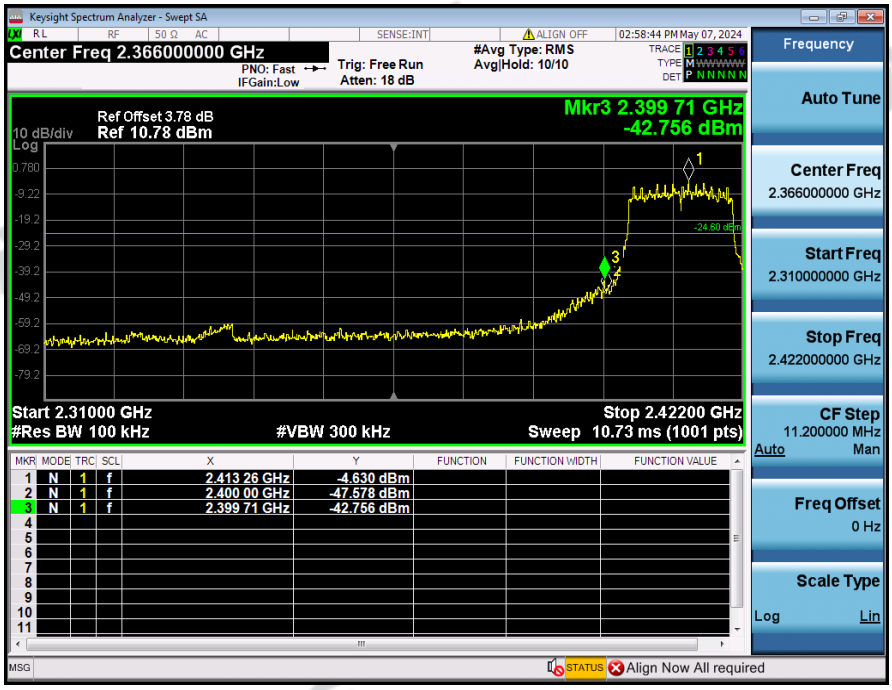


2_Bandedge_NVNT_ANT1_802_11b_2462

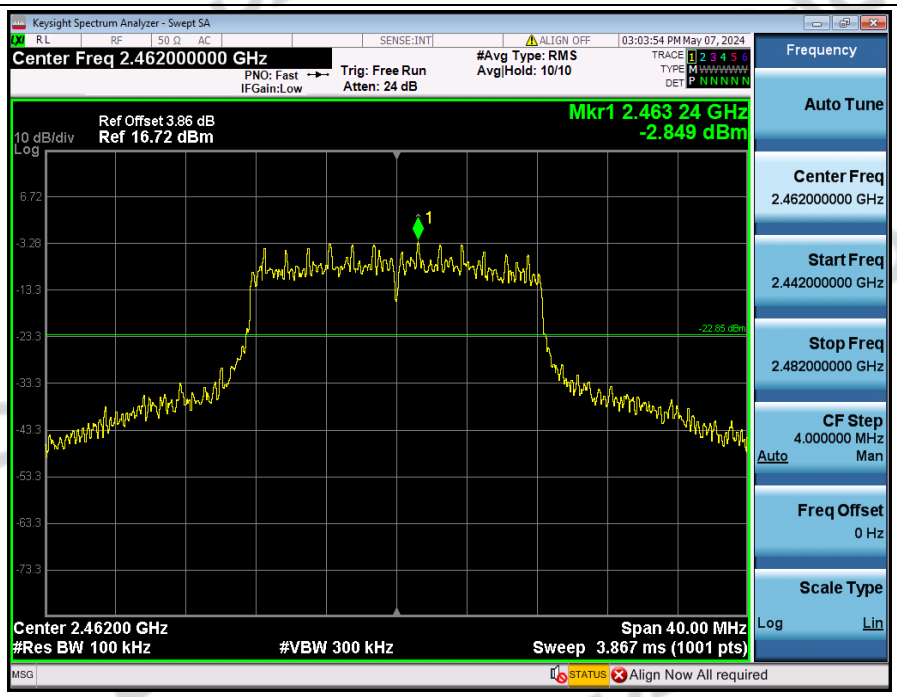
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412

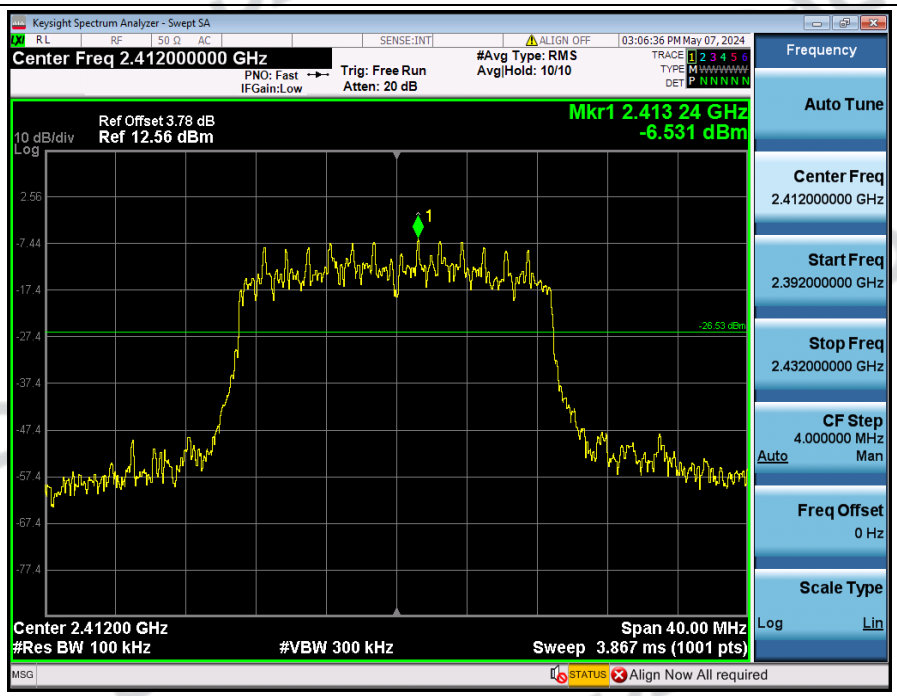


1_Reference_Level_NVNT_ANT1_802_11g_2462

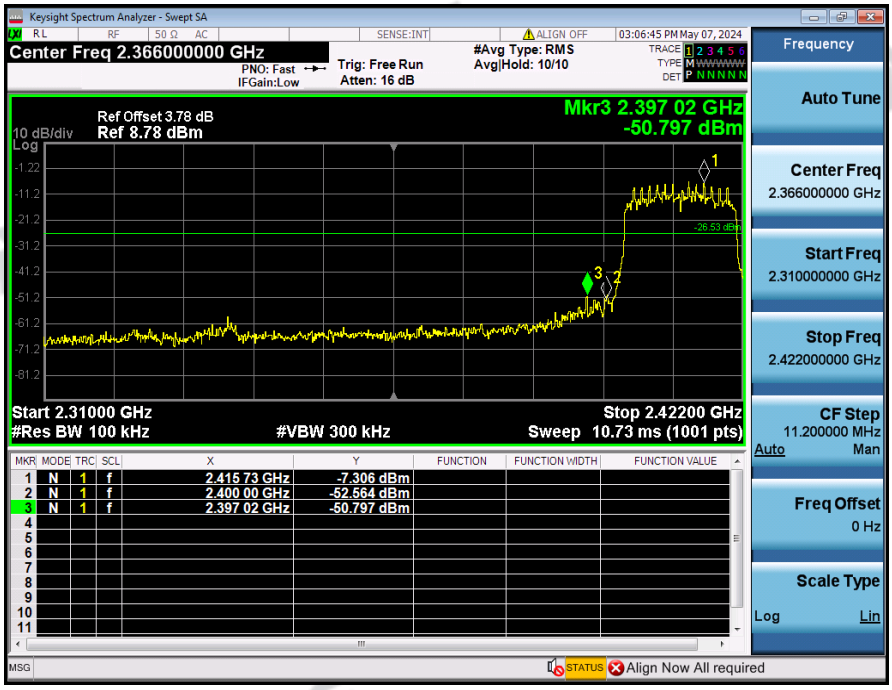


2_Bandedge_NVNT_ANT1_802_11g_2462

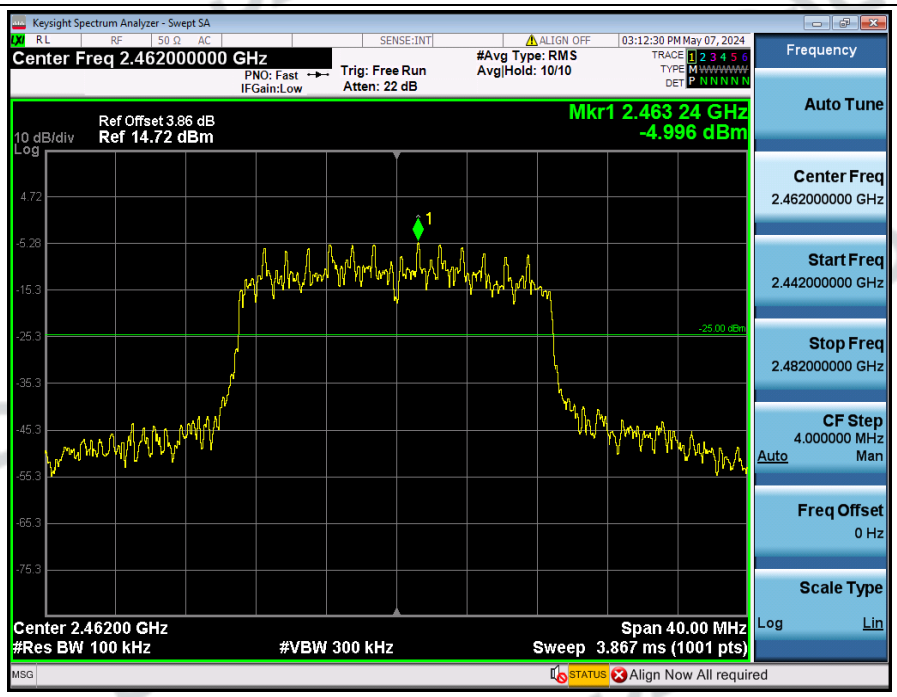
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412

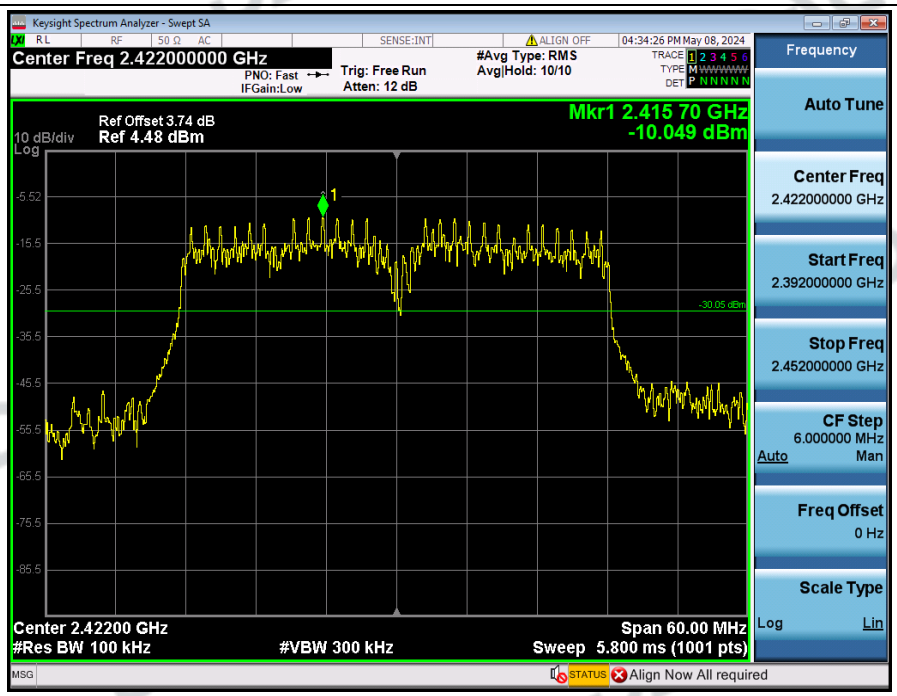


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



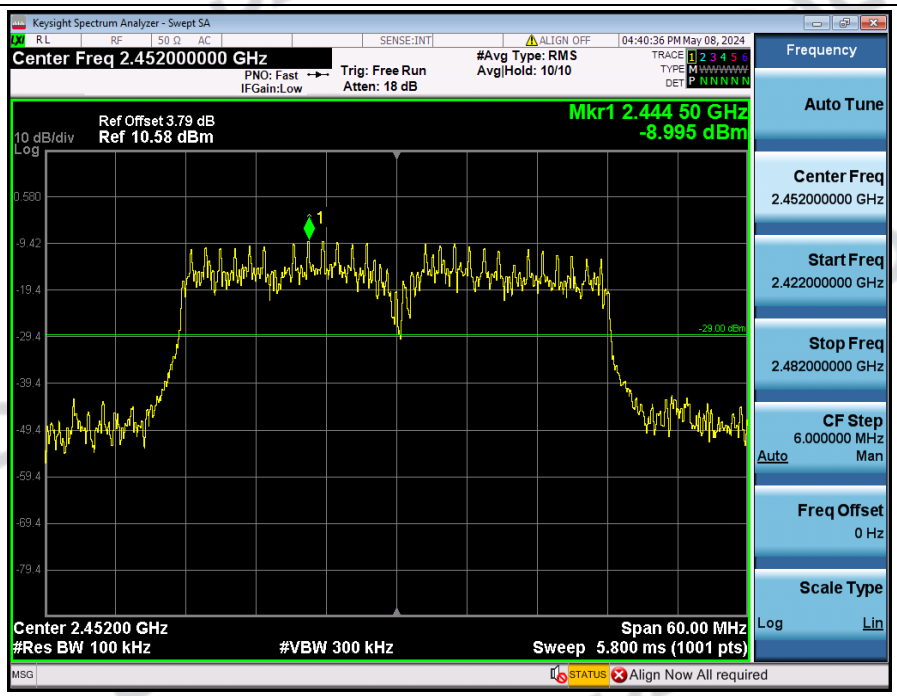
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462

1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422

1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



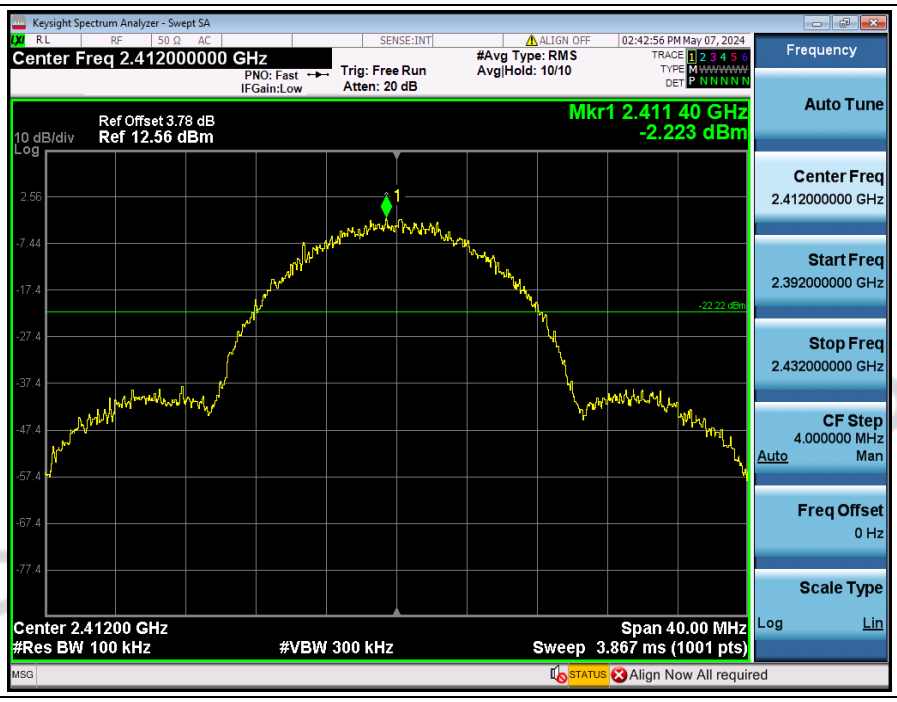
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.466000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 14 dB
#Avg Type: RMS
Avg|Hold: 10/10
04:40:44 PM May 08, 2024
Ref Offset 3.79 dB
10 dB/div
Ref 6.79 dBm
Log
Mkr3 2.484 496 GHz
-45.119 dBm
-29.00 dBm
Start 2.43200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 6.533 ms (1001 pts)
1 N 1 f 2.444 512 GHz -8.971 dBm
2 N 1 f 2.483 500 GHz -50.798 dBm
3 N 1 f 2.484 496 GHz -45.119 dBm
Frequency
Auto Tune
Center Freq
2.466000000 GHz
Start Freq
2.432000000 GHz
Stop Freq
2.500000000 GHz
CF Step
6.800000 MHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin
Align Now All required

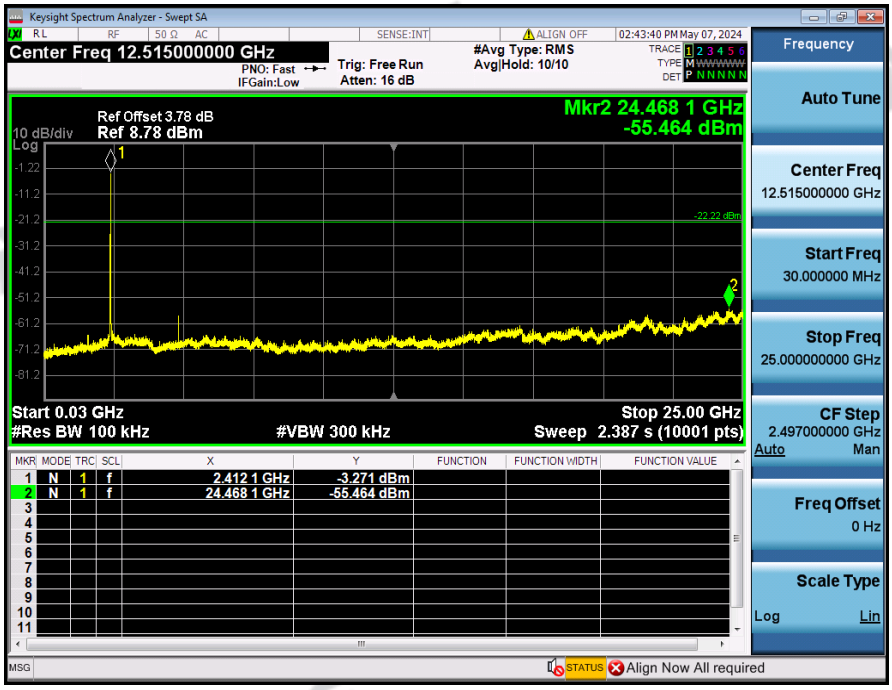
6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24468.139	-55.464	-22.223	Pass
NVNT	ANT1	802.11b	2437.00	24932.581	-49.731	-20.688	Pass
NVNT	ANT1	802.11b	2462.00	24573.013	-55.220	-19.987	Pass
NVNT	ANT1	802.11g	2412.00	24031.164	-54.092	-24.597	Pass
NVNT	ANT1	802.11g	2437.00	24905.114	-57.932	-24.036	Pass
NVNT	ANT1	802.11g	2462.00	24892.629	-50.661	-22.849	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24553.037	-56.181	-26.531	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24950.060	-60.208	-26.471	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24962.545	-53.413	-24.996	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2279.797	-61.651	-30.049	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	2294.779	-59.357	-30.004	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2309.761	-56.375	-28.995	Pass

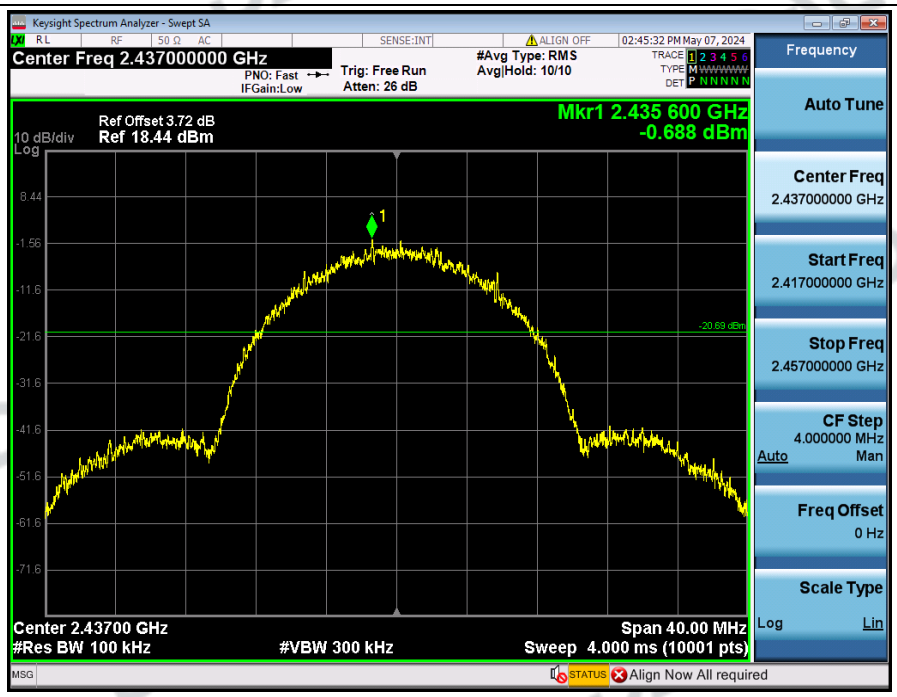
1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2437



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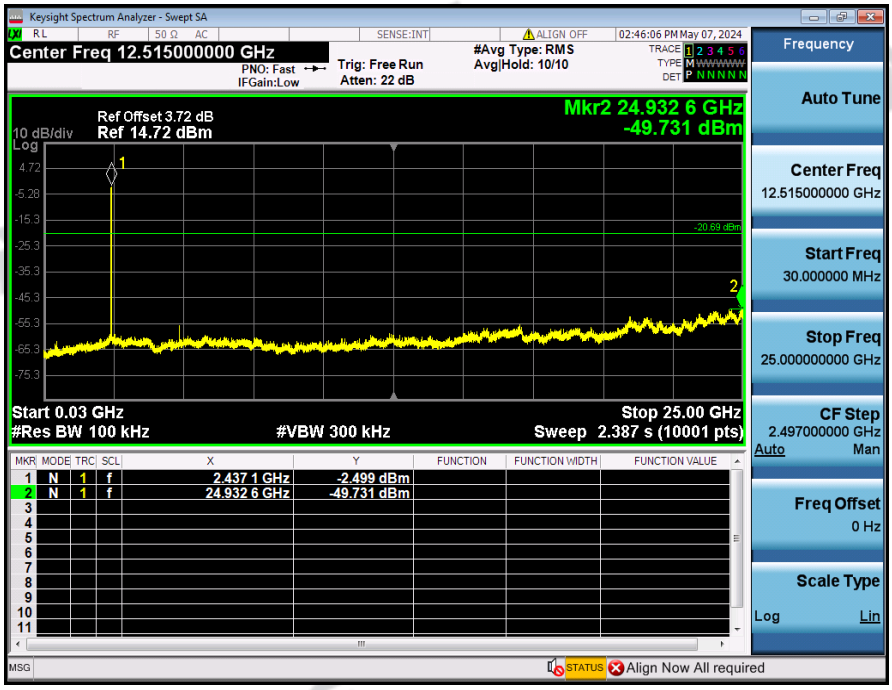
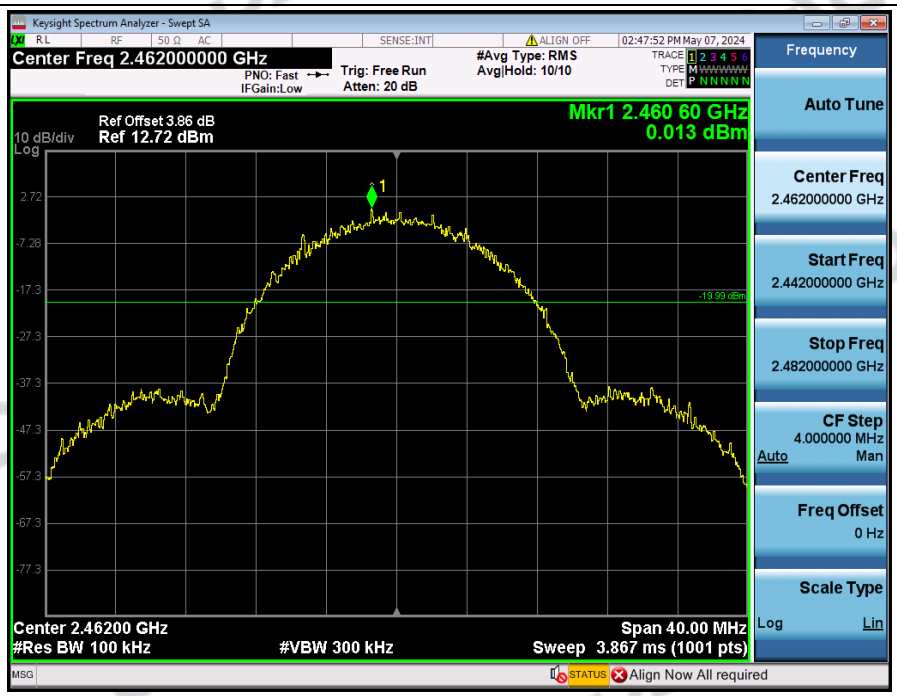
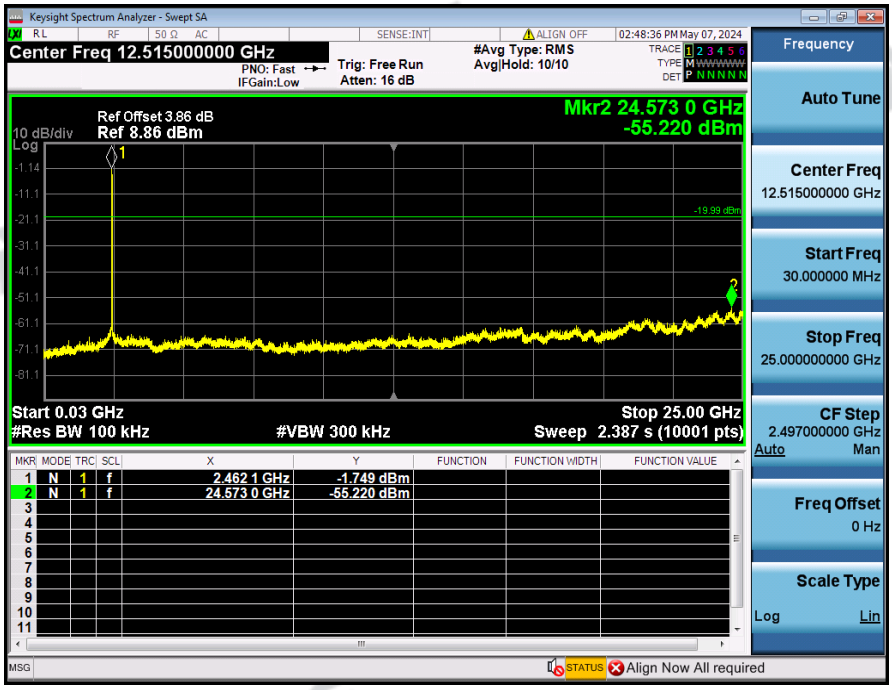


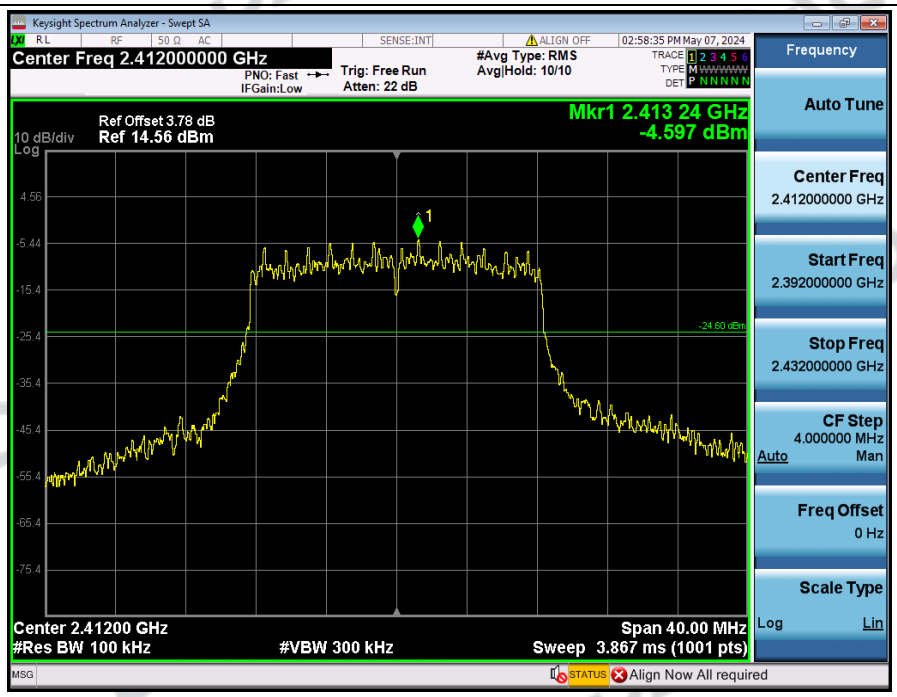
1_Reference_Level_NVNT_ANT1_802_11b_2462



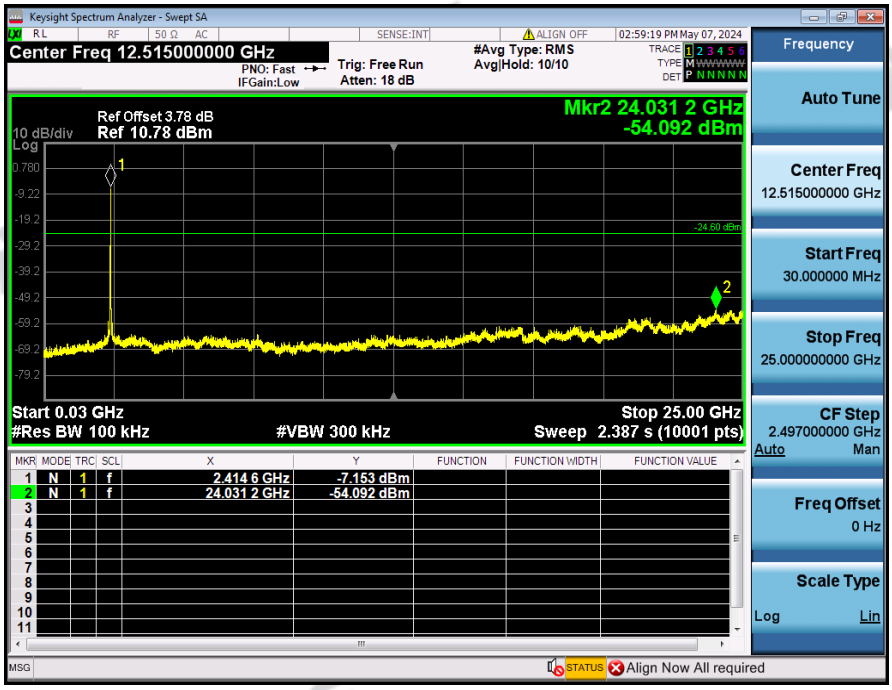
2_Spurious_Emission_NVNT_ANT1_802_11b_2462



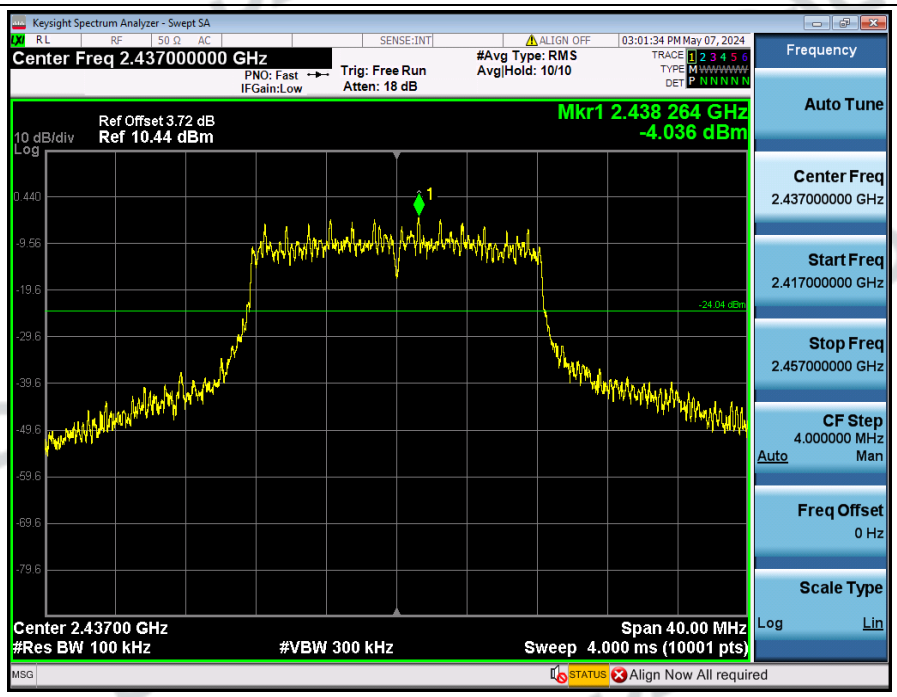
1_Reference_Level_NVNT_ANT1_802_11g_2412



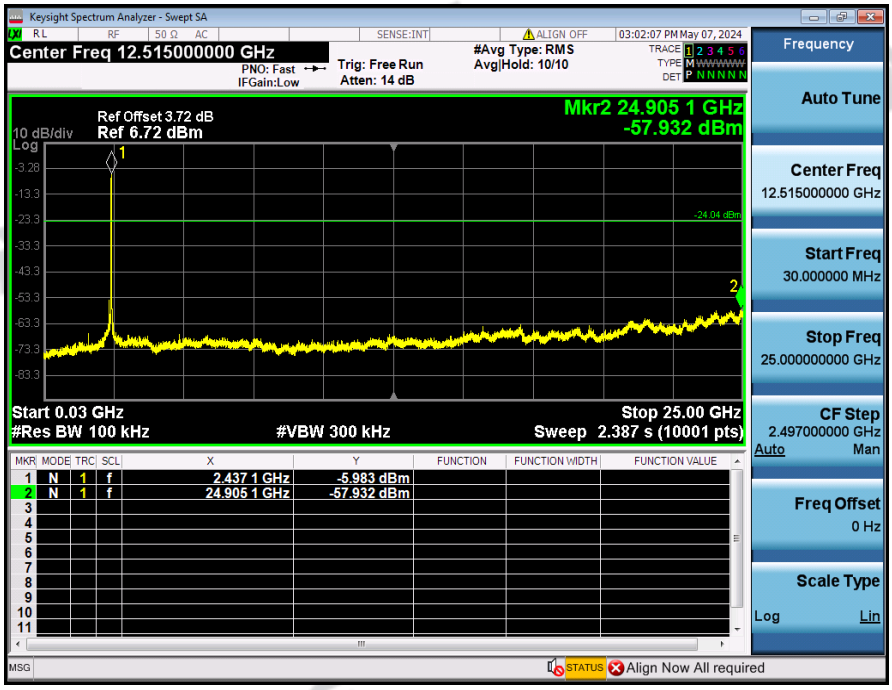
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



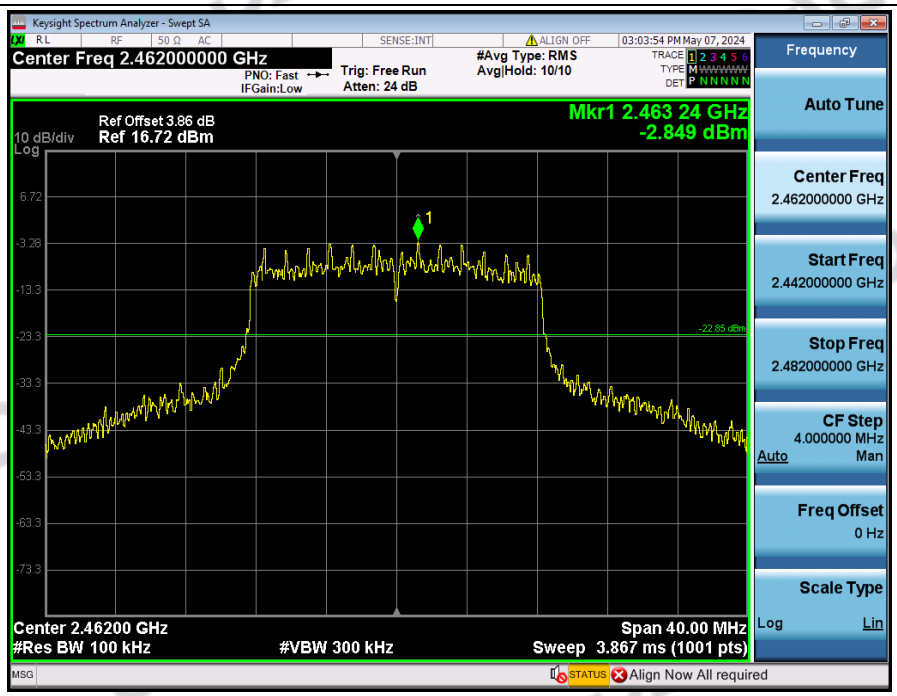
1_Reference_Level_NVNT_ANT1_802_11g_2437



2_Spurious_Emission_NVNT_ANT1_802_11g_2437



1_Reference_Level_NVNT_ANT1_802_11g_2462



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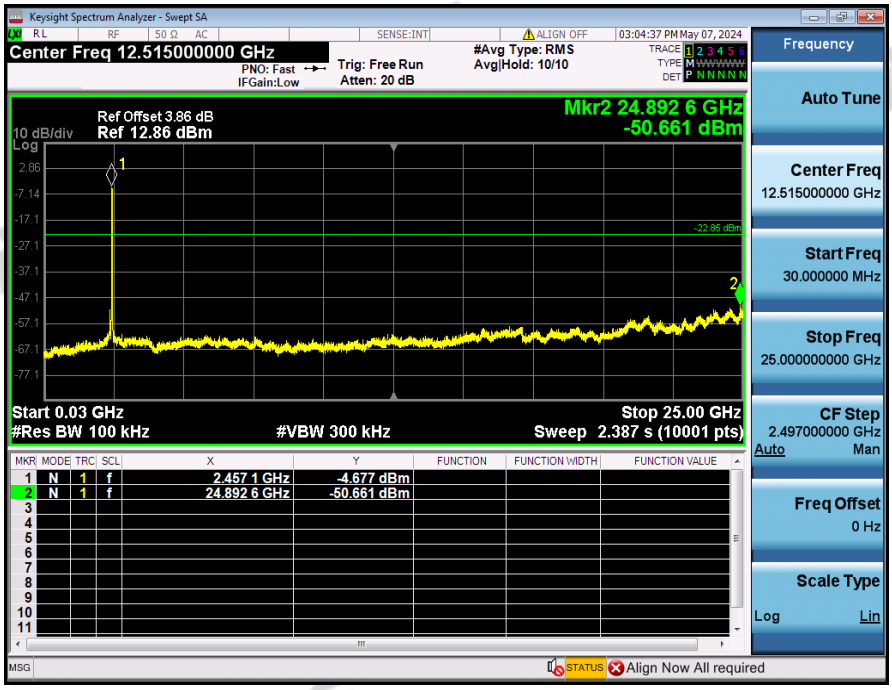
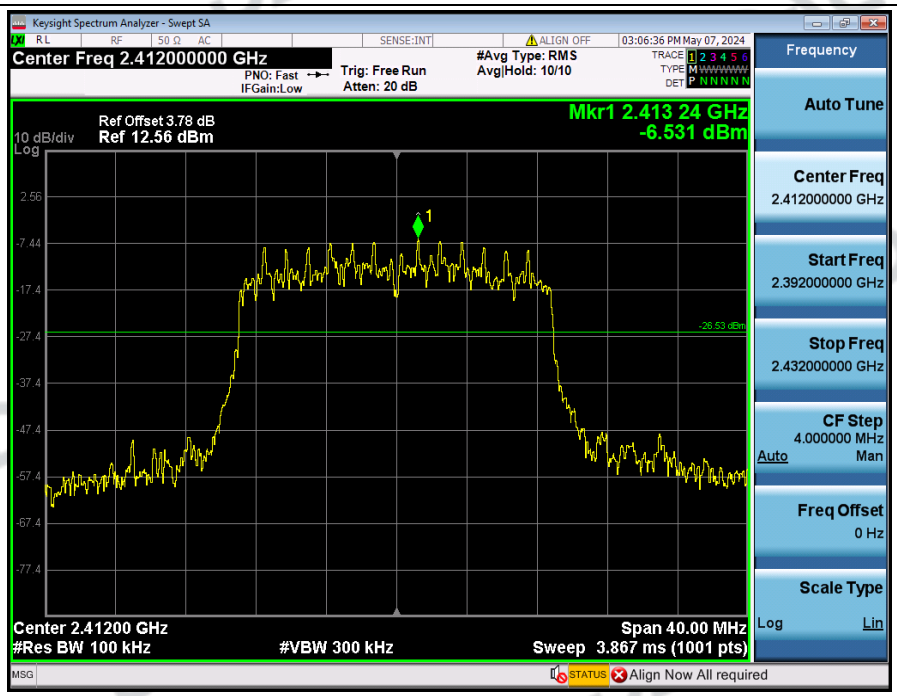


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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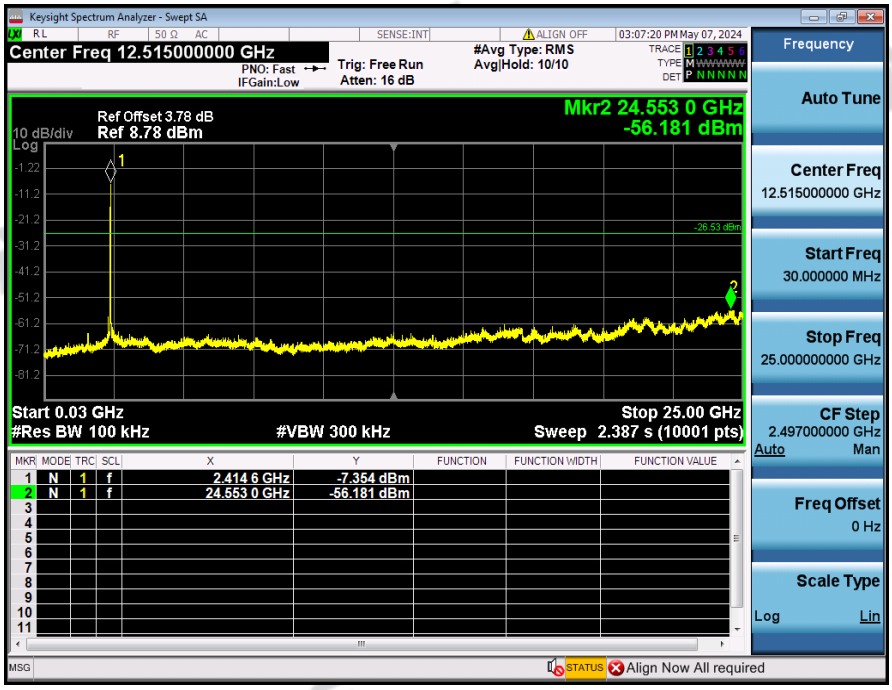

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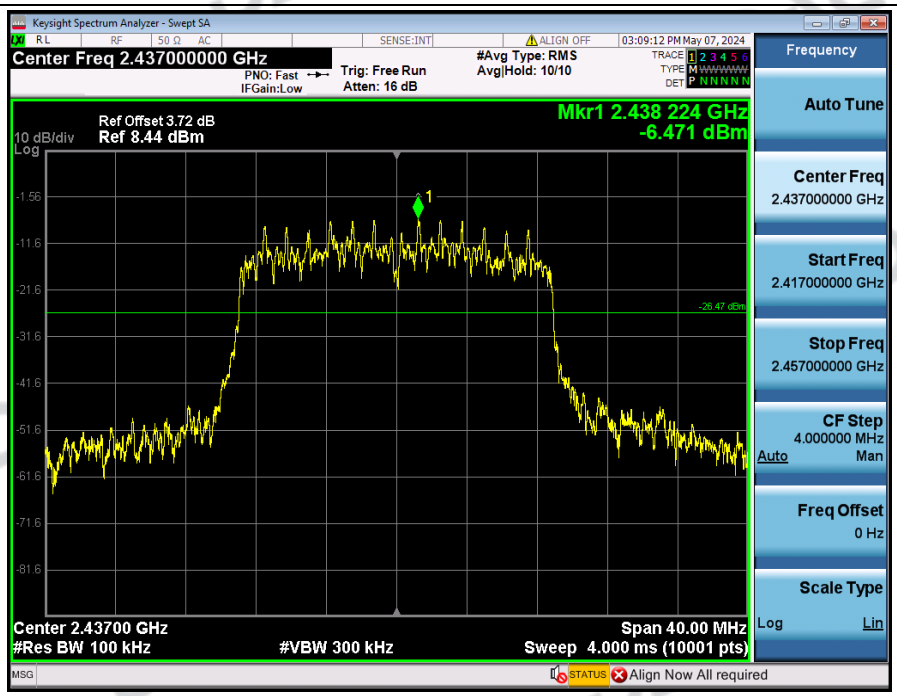

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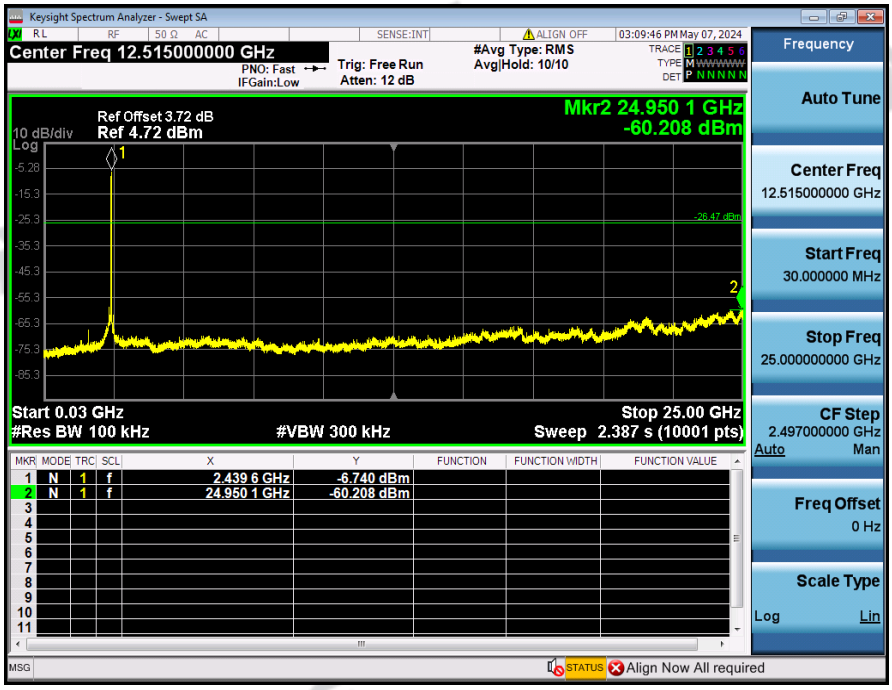

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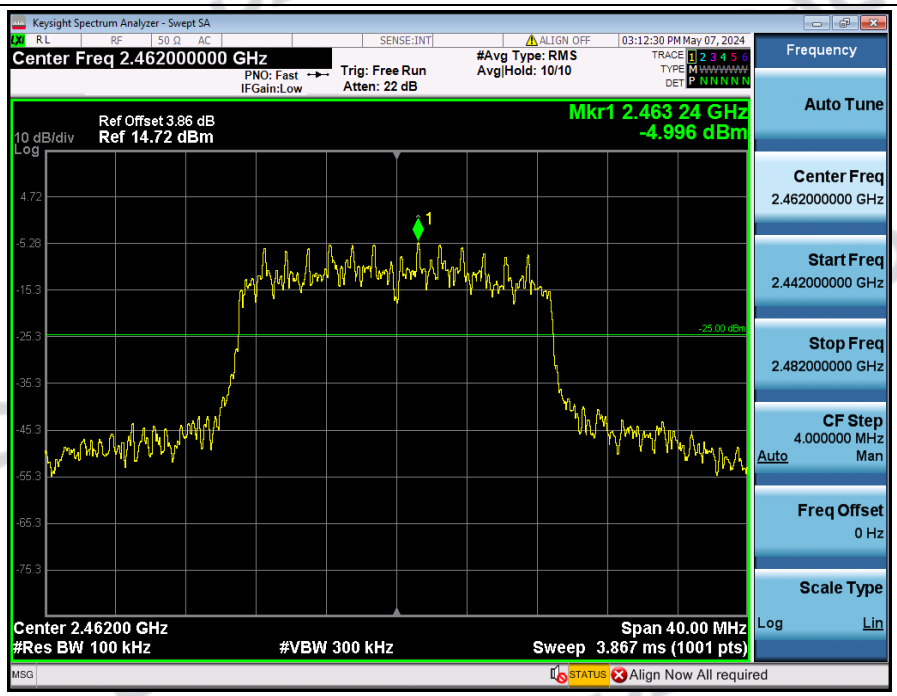

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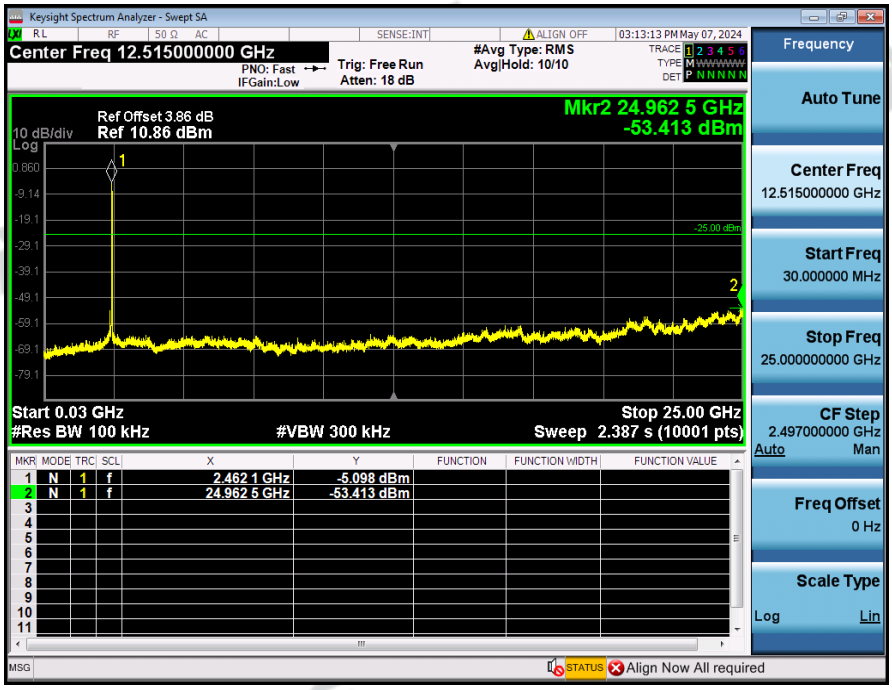
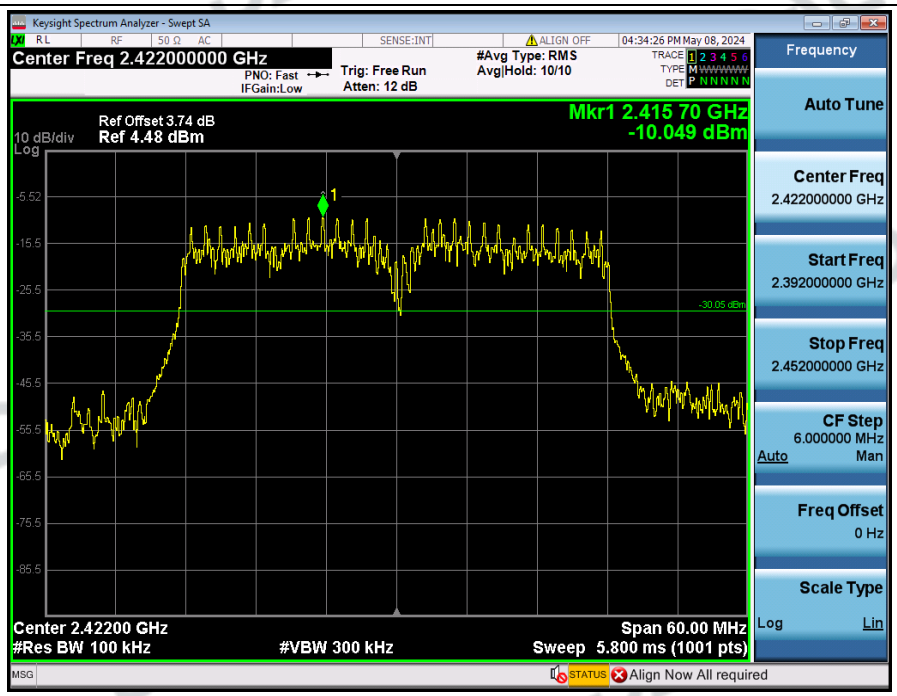


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



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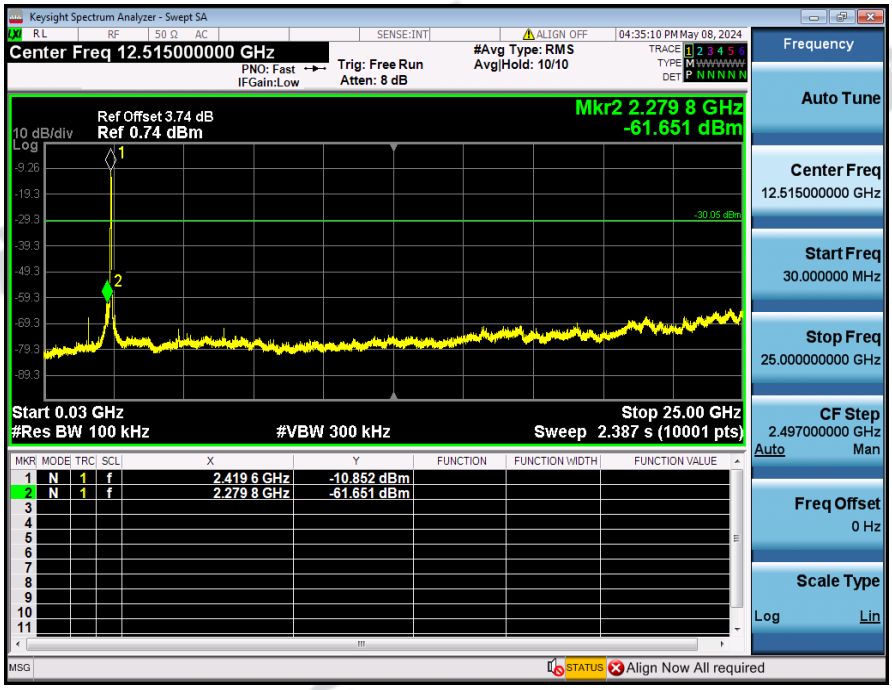

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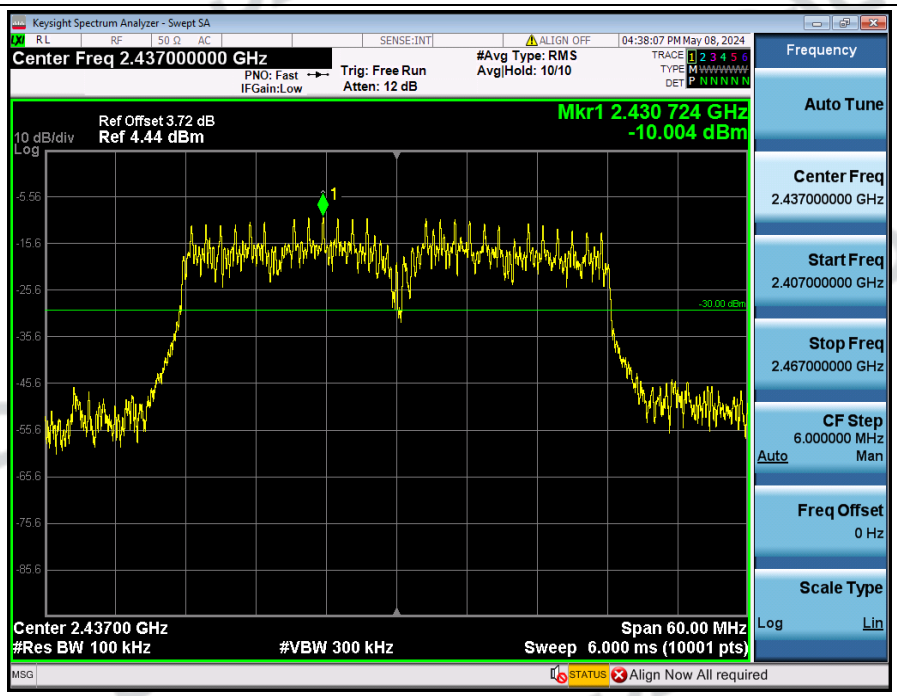
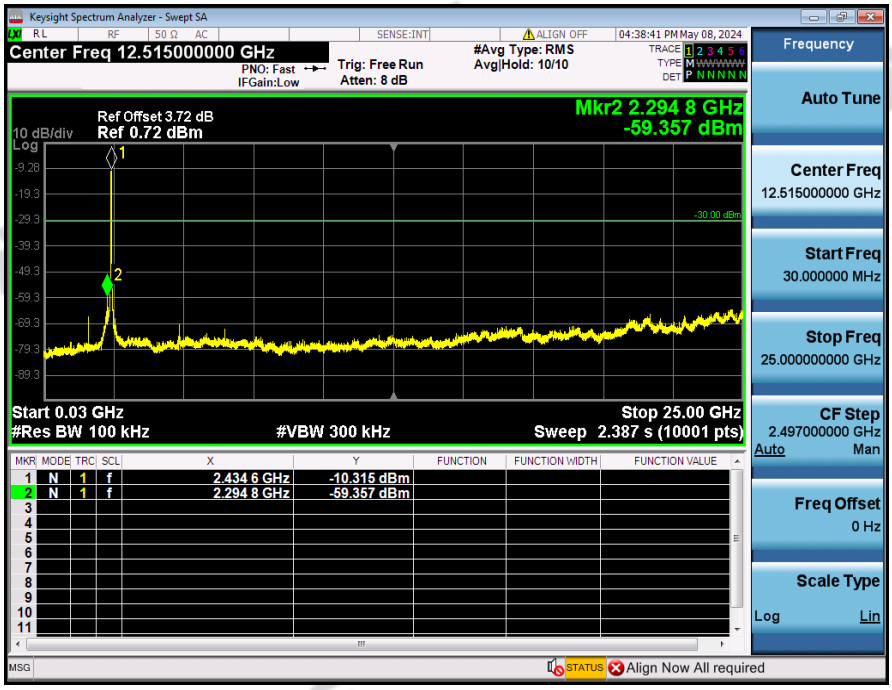


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



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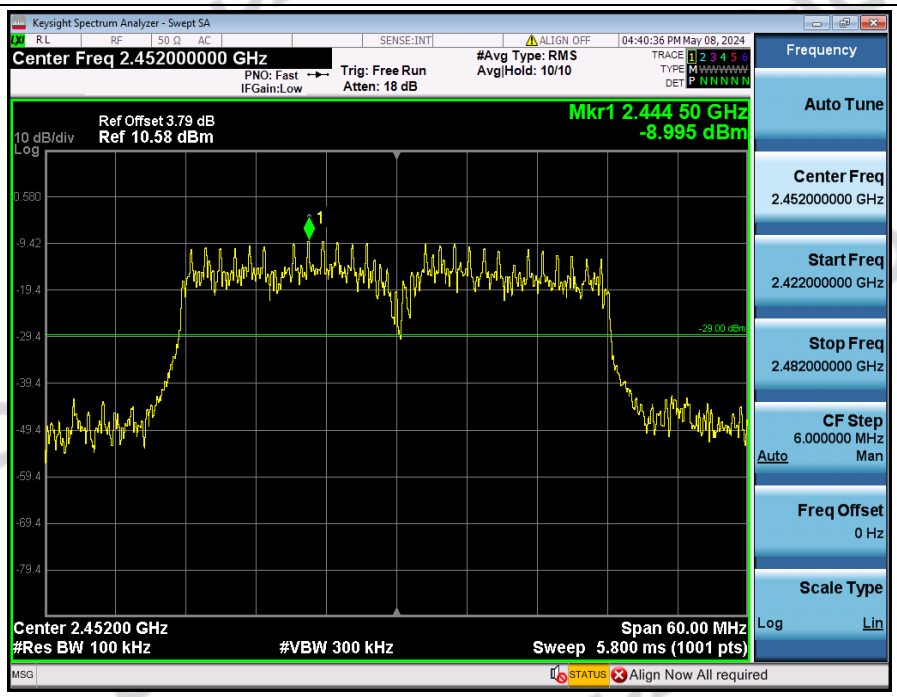

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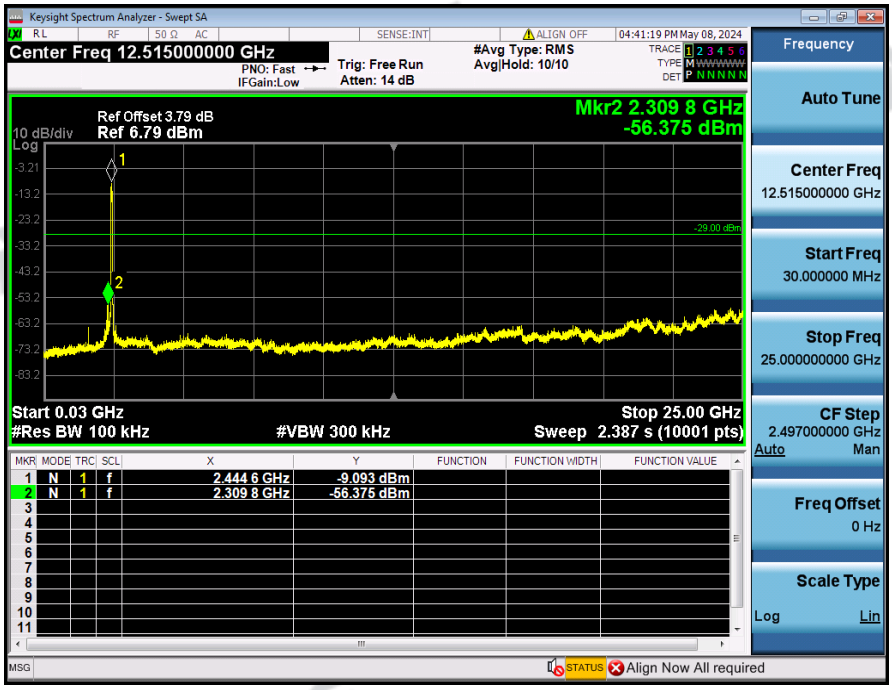

********** End of Report **********