RF TEST REPORT

For

Shenzhen Ugoos Technology Co., Ltd

Product Name: android tv box

Model(s).: am8

Report Reference No.	:	**POCE230819319ZRW**
FCC ID	:	**2AL8Y-AM8**
Applicant's Name	:	Shenzhen Ugoos Technology Co., Ltd
Address	:	Room 6A, 6th Floor, Building A, Bao'an Square, Sun'gang Road, Luohu District, Shenzhen 518020, China
Testing Laboratory	:	Shenzhen POCE Technology Co., Ltd.
Address	:	102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
Test Specification Standard	:	**47 CFR Part 15.247**
Date of Receipt	:	August 17, 2023
Date of Test	:	August 17, 2023 to August 31, 2023
Data of Issue	:	August 31, 2023
Result	:	**Pass**

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	POCE230819319ZRW	August 31, 2023

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.

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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	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.247		47 CFR 15.203	Pass
Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass

Note: N/A -this device(EUT) is not applicable to this testing item

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name	:	Shenzhen Ugoos Technology Co., Ltd
Address	:	Room 6A, 6th Floor, Building A, Bao'an Square, Sun'gang Road, Luohu District, Shenzhen 518020, China
Manufacturer	:	Shenzhen Ugoos Technology Co., Ltd
Address	:	Room 6A, 6th Floor, Building A, Bao'an Square, Sun'gang Road, Luohu District, Shenzhen 518020, China

2.2 Description of Device (EUT)

Product Name:	android tv box
Model/Type reference:	am8
Series Model:	am8 pro,am8 plus,am8 max ,am8b plus,am8b pro
Model Difference:	The product has many models, only the model name is different, and the other parts such as the circuit principle, pcb and electrical structure are the same.
Trade Mark:	ugoos
Power Supply:	DC5V/3A;DC9.0V/2.22A;DC12.0/1.67A Power from Adapter
Power Adaptor:	MODEL:RPD20-01E INPOU:100-240V-50/60Hz 0.8A OUTPUT:DC5V/3A;DC9.0V/2.22A;DC12.0/1.67A 20.0W MAX
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:	External
Antenna Gain:	ANT1:3 dBi;ANT2:3 dBi; MIMO ANT:6.01dBi
Hardware Version:	V1.0
Software Version:	V1.0

Note: MIMO Gain=10*log[(10G1/20+10G2/20+…)2 /Nant] , so MIMO Gain: 6.01dBi >6dBi

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.
Remark:Only the data of the worst mode would be recorded in this report.		

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)**
	802.11b/802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz
Test channel	802.11n(HT40)
Lowest channel	2422MHz
Middle channel	2437MHz
Highest channel	2452MHz

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
PC	Lenovo	Air 14 Plus	
Display Screen			

2.5 Equipments Used During The Test

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	RTS-01	V2.0.0.0	/	/
High Pass filter	ZHINAN	OQHPF1-M1.5-18G-224	6210075	/	/
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
DC power	HP	66311B	38444359	/	/
RF Sensor Unit	Tachoy Information Technology(shenzhen) Co.,Ltd.	TR1029-2	000001	/	/
Vector signal generator	Keysight	N5181A	MY48180415	2022-12-10	2023-12-09
Signal generator	Keysight	N5182A	MY50143455	2022-12-29	2023-12-28
Spectrum Analyzer	Keysight	N9020A	MY53420323	2022-12-29	2023-12-28
Power meter	Agilent	E4416	MY48200166	2022-12-29	2023-12-28

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	/	/	/
High Pass filter	ZHINAN	OQHPF1-M1.5-18G-224	6210075	/	/
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	/	/	2023-02-27	2024-02-26
Cable(LF)#1	Schwarzbeck	/	/	2023-02-27	2024-02-26
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2023-02-28	2024-02-27
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2023-02-27	2024-02-26
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 POCE 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 POCE 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 Number:	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 POCE 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) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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.

4 Radio Spectrum Matter Test Results (RF)

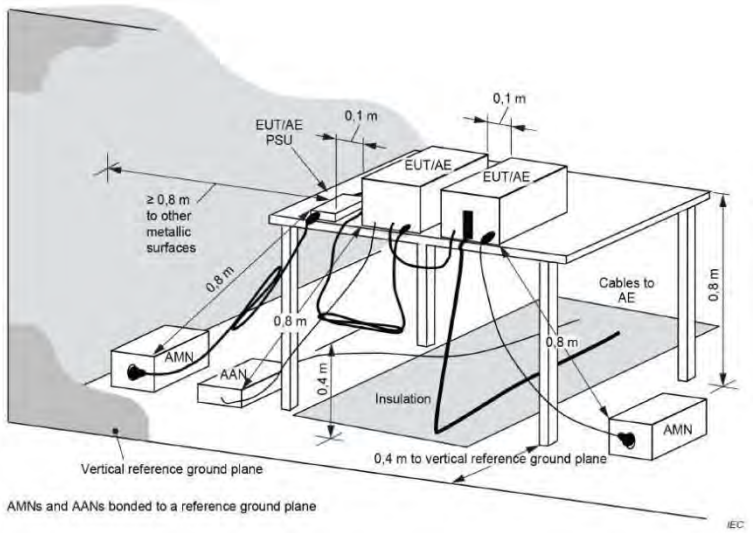
4.1 Conducted Emission at AC power line

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:

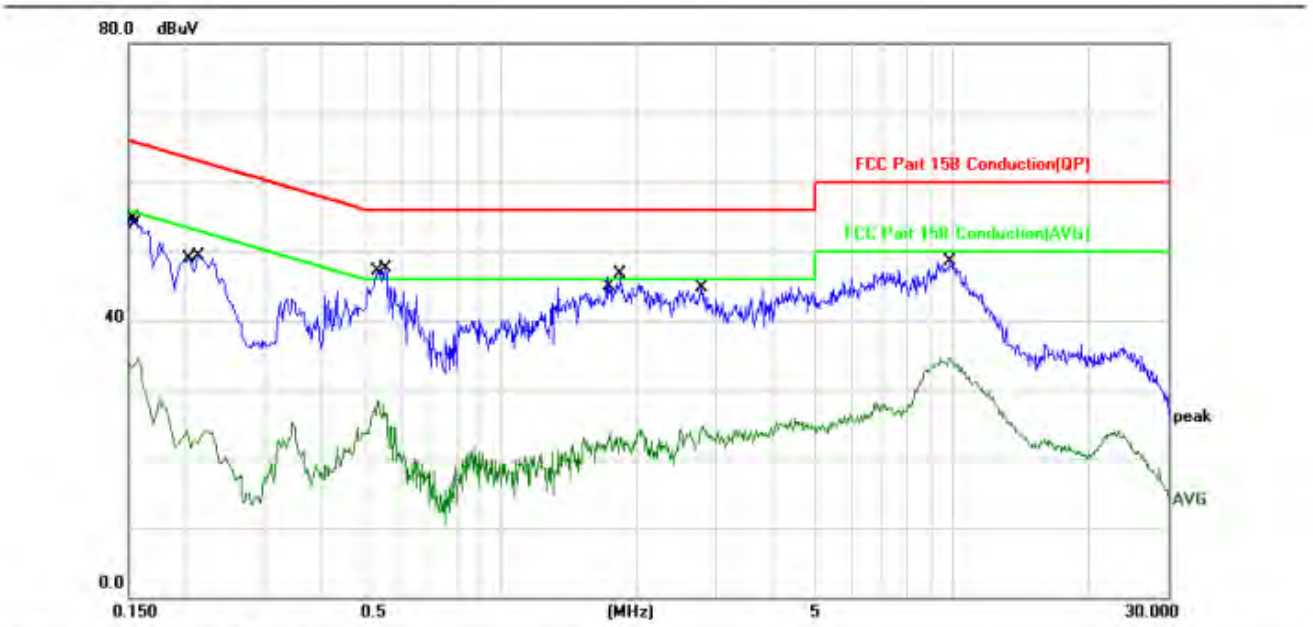
Operating Environment:					
Temperature:	22.9 °C	Humidity:	51.8 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

4.1.2 Test Setup Diagram:



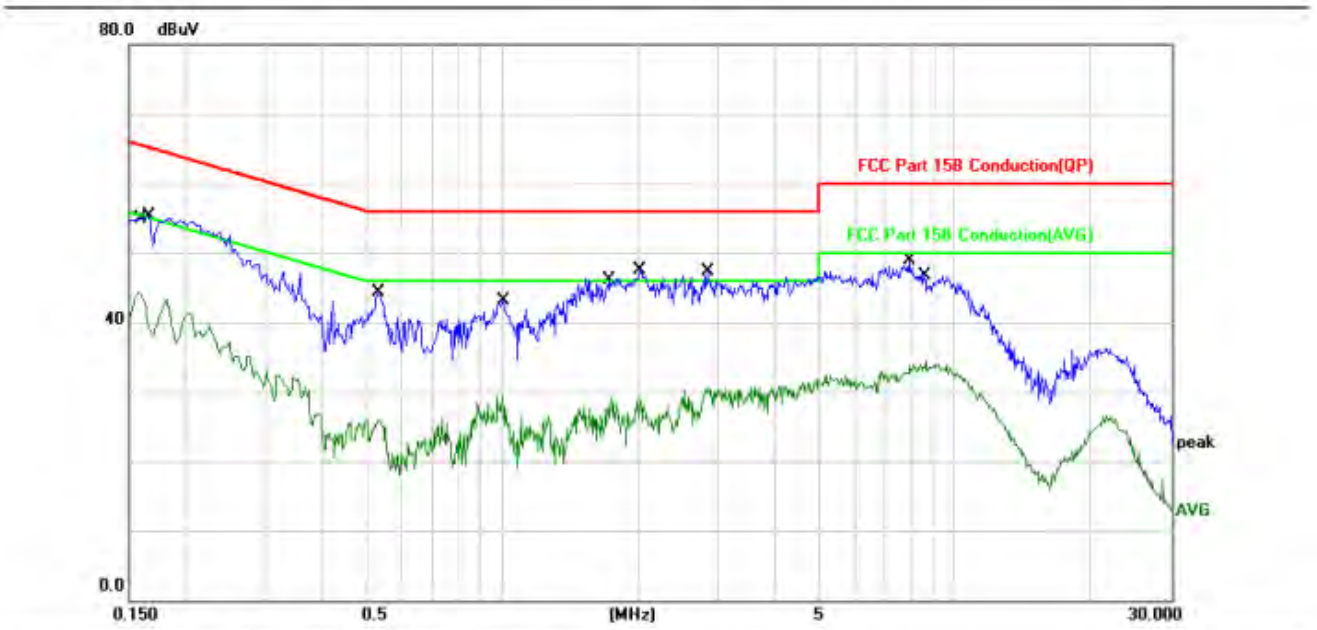
4.1.3 Test Data:

TM1 / Line: Line / Band: 2.4G / BW: 20 / CH: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1532	44.42	10.20	54.62	65.82	-11.20	QP	
2		0.1580	24.37	10.19	34.56	55.56	-21.00	AVG	
3		0.2020	13.96	10.20	24.16	53.52	-29.36	AVG	
4		0.2140	39.18	10.19	49.37	63.04	-13.67	QP	
5		0.5340	18.43	10.13	28.56	46.00	-17.44	AVG	
6	*	0.5580	37.27	10.13	47.40	56.00	-8.60	QP	
7		1.7500	13.85	10.08	23.93	46.00	-22.07	AVG	
8		1.8420	36.53	10.09	46.62	56.00	-9.38	QP	
9		2.7900	34.58	10.18	44.76	56.00	-11.24	QP	
10		2.8100	14.52	10.18	24.70	46.00	-21.30	AVG	
11		9.8739	37.26	11.31	48.57	60.00	-11.43	QP	
12		9.8739	23.49	11.31	34.80	50.00	-15.20	AVG	

TM1 / Line: Line / Band: 2.4G / BW: 20 / CH: N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	34.19	10.19	44.38	55.56	-11.18	AVG	
2		0.1660	45.18	10.19	55.37	65.15	-9.78	QP	
3		0.5340	34.17	10.13	44.30	56.00	-11.70	QP	
4		0.5380	15.79	10.13	25.92	46.00	-20.08	AVG	
5		1.0020	19.44	10.05	29.49	46.00	-16.51	AVG	
6		1.0060	33.07	10.05	43.12	56.00	-12.88	QP	
7		1.7420	19.04	10.08	29.12	46.00	-16.88	AVG	
8	*	2.0180	37.49	10.10	47.59	56.00	-8.41	QP	
9		2.8460	37.19	10.18	47.37	56.00	-8.63	QP	
10		2.8460	20.55	10.18	30.73	46.00	-15.27	AVG	
11		7.9019	37.85	10.97	48.82	60.00	-11.18	QP	
12		8.6059	23.39	11.09	34.48	50.00	-15.52	AVG	

1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement

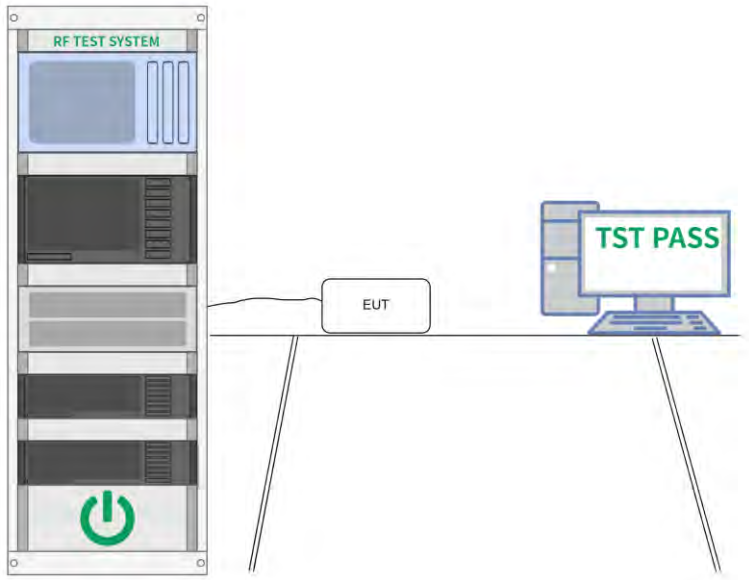
4.2 Occupied Bandwidth

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 KDB 558074 D01 15.247 Meas Guidance v05r02
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:	22.6 °C	Humidity:	53.6 %	Atmospheric Pressure:	102 kPa
Pre test 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.

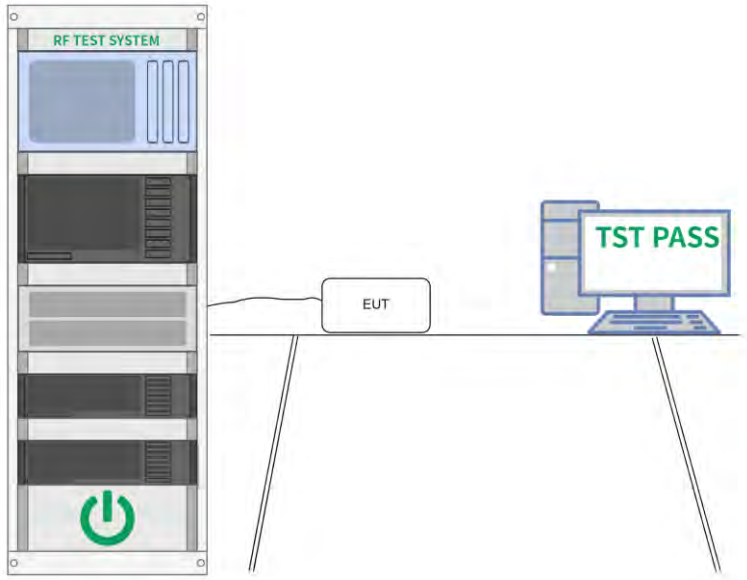
4.3 Maximum Conducted Output Power

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 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.6 °C	Humidity:	53.6 %	Atmospheric Pressure:	102 kPa
Pre test 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.

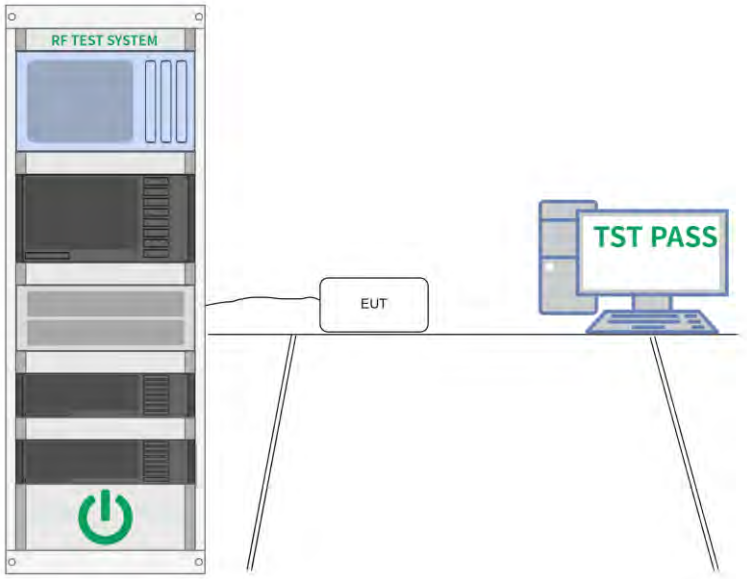
4.4 Power Spectral Density

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 KDB 558074 D01 15.247 Meas Guidance v05r02
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:	22.6 °C	Humidity:	53.6 %	Atmospheric Pressure:	102 kPa
Pre test 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.

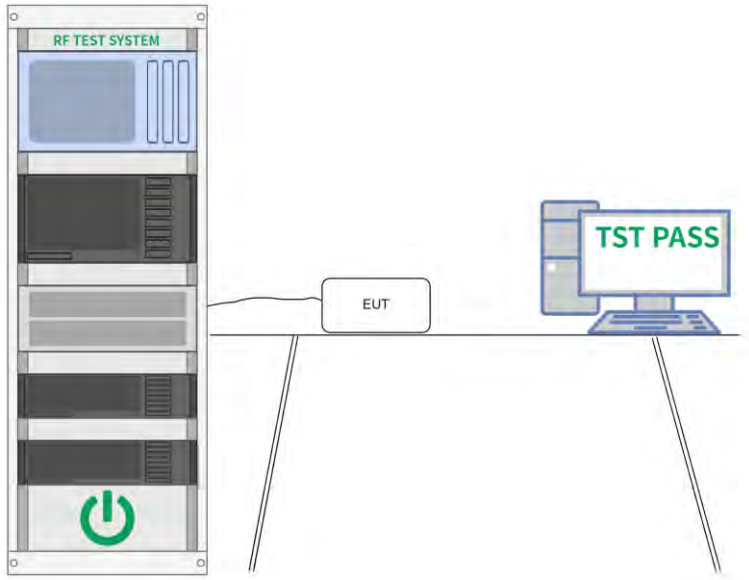
4.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
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 KDB 558074 D01 15.247 Meas Guidance v05r02
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:	22.6 °C	Humidity:	53.6 %	Atmospheric Pressure:	102 kPa
Pre test 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:	

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

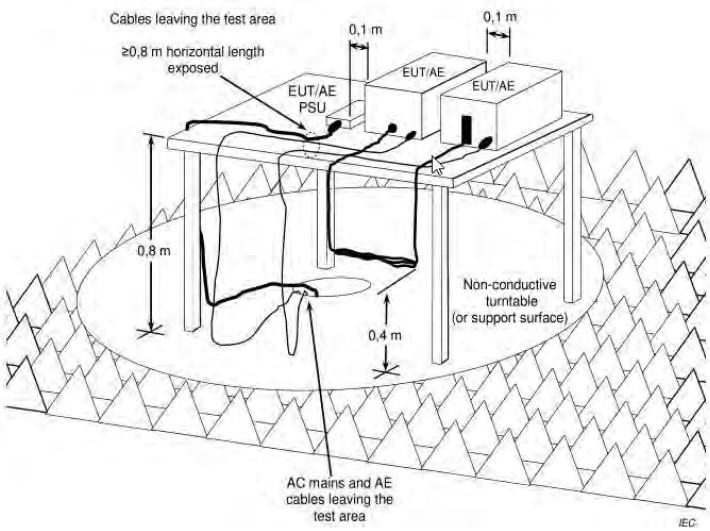
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

Test Method:	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 section 6.10.5.2

4.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.6 °C	Humidity:	53.6 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.6.2 Test Setup Diagram:



4.6.3 Test Data:

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2310	57.16	-6.93	50.23	74	-23.77	peak	H
2310	44.32	-6.93	37.39	54	-16.61	AVG	H
2390	62.77	-6.72	56.05	74	-17.95	peak	H
2390	48.98	-6.72	42.26	54	-11.74	AVG	H
2310	58.06	-6.93	51.13	74	-22.87	peak	V
2310	44.27	-6.93	37.34	54	-16.66	AVG	V
2390	65.45	-6.72	58.73	74	-15.27	peak	V
2390	49.15	-6.72	42.43	54	-11.57	AVG	V

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.5	58.99	-6.47	52.52	74	-21.48	peak	H
2483.5	45.52	-6.47	39.05	54	-14.95	AVG	H
2500	61.80	-6.43	55.37	74	-18.63	peak	H
2500	47.13	-6.43	40.70	54	-13.30	AVG	H
2483.5	58.07	-6.47	51.60	74	-22.40	peak	V
2483.5	45.91	-6.47	39.44	54	-14.56	AVG	V
2500	65.95	-6.43	59.52	74	-14.48	peak	V
2500	47.88	-6.43	41.45	54	-12.55	AVG	V

Remark:
1.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement
Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
3.The test data shows only the worst case(802.11n(HT20) mode)

4.7 Emissions in frequency bands (below 1GHz)

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:	

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.

Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 section 6.6.4

4.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.6 °C	Humidity:	53.6 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.7.2 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.

TM1 / Polarization: Horizontal / Band: 2.4G / 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 !	250.3011	45.32	-2.10	43.22	46.00	-2.78	QP	100	246	P	
2 !	322.1885	40.76	1.17	41.93	46.00	-4.07	QP	100	248	P	
3 !	375.9385	40.46	1.56	42.02	46.00	-3.98	QP	100	324	P	
4 *	625.0780	40.01	3.68	43.69	46.00	-2.31	QP	100	159	P	
5 !	750.1082	36.20	5.80	42.00	46.00	-4.00	QP	100	65	P	
6 !	875.2470	35.26	7.31	42.57	46.00	-3.43	QP	100	248	P	

TM1 / Polarization: Vertical / Band: 2.4G / 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 !	62.8707	44.79	-8.91	35.88	40.00	-4.12	QP	100	148	P	
2 !	74.1351	44.35	-8.22	36.13	40.00	-3.87	QP	100	246	P	
3 !	250.3011	42.24	-2.11	40.13	46.00	-5.87	QP	100	351	P	
4 !	501.1790	40.41	1.91	42.32	46.00	-3.68	QP	100	248	P	
5 *	625.0780	39.70	4.43	44.13	46.00	-1.87	QP	100	147	P	
6 !	875.2470	35.59	7.00	42.59	46.00	-3.41	QP	100	248	P	

Remark:
1.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement
Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
3.The test data shows only the worst case(802.11n(HT20) mode)

4.8 Emissions in frequency bands (above 1GHz)

Test Requirement:	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:	

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

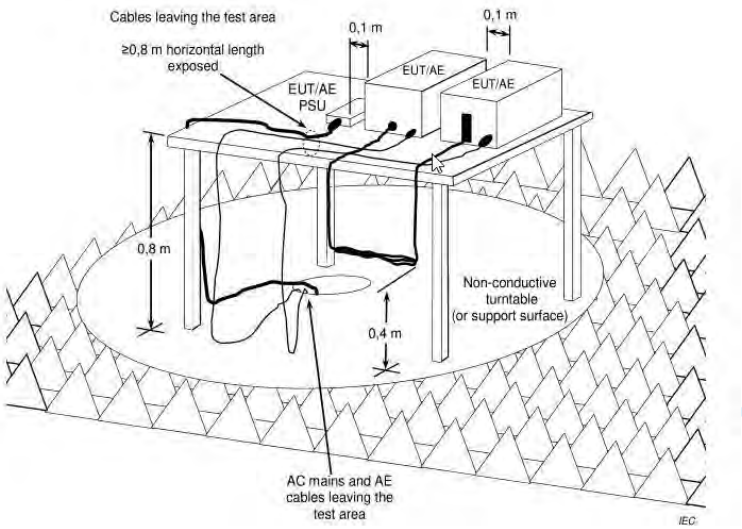
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 section 6.6.4

4.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.6 °C	Humidity:	53.6 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.8.2 Test Setup Diagram:



4.8.3 Test Data:

802.11b--Low Channel:2412MHz--ANT1

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824	53.44	-0.9	52.54	74	-21.46	peak	H
4824	38.45	-0.9	37.55	54	-16.45	AVG	H
7236	55.01	4.13	59.14	74	-14.86	peak	H
7236	40.73	4.13	44.86	54	-9.14	AVG	H
9648	55.69	8.09	63.78	74	-10.22	peak	H
9648	40.77	8.09	48.86	54	-5.14	AVG	H
4824	53.03	-0.9	52.13	74	-21.87	peak	V
4824	39.06	-0.9	38.16	54	-15.84	AVG	V
7236	52.83	4.13	56.96	74	-17.04	peak	V
7236	40.96	4.13	45.09	54	-8.91	AVG	V
9648	55.71	8.09	63.80	74	-10.20	peak	V
9648	42.16	8.09	50.25	54	-3.75	AVG	V

802.11b--Low Channel:2437MHz--ANT1

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874	51.08	-0.64	50.44	74	-23.56	peak	H
4874	38.28	-0.64	37.64	54	-16.36	AVG	H
7311	54.74	4.31	59.05	74	-14.95	peak	H
7311	39.97	4.31	44.28	54	-9.72	AVG	H
9748	54.52	8.09	62.61	74	-11.39	peak	H
9748	40.05	8.09	48.14	54	-5.86	AVG	H
4874	53.19	-0.64	52.55	74	-21.45	peak	V
4874	39.58	-0.64	38.94	54	-15.06	AVG	V
7311	52.27	4.31	56.58	74	-17.42	peak	V
7311	41.34	4.31	45.65	54	-8.35	AVG	V
9748	55.55	8.09	63.64	74	-10.36	peak	V
9748	40.70	8.09	48.79	54	-5.21	AVG	V

802.11b--Low Channel:2462MHz--ANT1

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924	51.42	-0.37	51.05	74	-22.95	peak	H
4924	38.95	-0.37	38.58	54	-15.42	AVG	H
7386	54.28	4.49	58.77	74	-15.23	peak	H
7386	39.18	4.49	43.67	54	-10.33	AVG	H
9848	53.55	8.08	61.63	74	-12.37	peak	H
9848	41.93	8.08	50.01	54	-3.99	AVG	H

4924	51.27	-0.37	50.90	74	-23.10	peak	V
4924	39.13	-0.37	38.76	54	-15.24	AVG	V
7386	53.99	4.49	58.48	74	-15.52	peak	V
7386	41.64	4.49	46.13	54	-7.87	AVG	V
9848	56.12	8.08	64.20	74	-9.80	peak	V
9848	41.60	8.08	49.68	54	-4.32	AVG	V

Remark:
1.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement
Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
3.The test data shows only the worst case(802.11n(HT20) mode)

802.11b--Low Channel:2412MHz--ANT2

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824	51.18	-0.9	50.28	74	-23.72	peak	H
4824	39.46	-0.9	38.56	54	-15.44	AVG	H
7236	52.68	4.13	56.81	74	-17.19	peak	H
7236	39.13	4.13	43.26	54	-10.74	AVG	H
9648	55.90	8.09	63.99	74	-10.01	peak	H
9648	41.29	8.09	49.38	54	-4.62	AVG	H
4824	52.42	-0.9	51.52	74	-22.48	peak	V
4824	38.45	-0.9	37.55	54	-16.45	AVG	V
7236	53.15	4.13	57.28	74	-16.72	peak	V
7236	39.56	4.13	43.69	54	-10.31	AVG	V
9648	55.97	8.09	64.06	74	-9.94	peak	V
9648	41.09	8.09	49.18	54	-4.82	AVG	V

802.11b--Low Channel:2437MHz--ANT2

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874	51.23	-0.64	50.59	74	-23.41	peak	H
4874	39.31	-0.64	38.67	54	-15.33	AVG	H
7311	52.09	4.31	56.40	74	-17.60	peak	H
7311	40.34	4.31	44.65	54	-9.35	AVG	H
9748	55.39	8.09	63.48	74	-10.52	peak	H
9748	42.62	8.09	50.71	54	-3.29	AVG	H
4874	51.93	-0.64	51.29	74	-22.71	peak	V
4874	39.67	-0.64	39.03	54	-14.97	AVG	V
7311	54.72	4.31	59.03	74	-14.97	peak	V
7311	41.16	4.31	45.47	54	-8.53	AVG	V
9748	54.12	8.09	62.21	74	-11.79	peak	V
9748	42.37	8.09	50.46	54	-3.54	AVG	V

802.11b--Low Channel:2462MHz--ANT2

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924	53.50	-0.37	53.13	74	-20.87	peak	H
4924	38.96	-0.37	38.59	54	-15.41	AVG	H
7386	53.87	4.49	58.36	74	-15.64	peak	H
7386	40.28	4.49	44.77	54	-9.23	AVG	H
9848	53.32	8.08	61.40	74	-12.60	peak	H
9848	40.23	8.08	48.31	54	-5.69	AVG	H
4924	52.88	-0.37	52.51	74	-21.49	peak	V
4924	39.21	-0.37	38.84	54	-15.16	AVG	V
7386	52.13	4.49	56.62	74	-17.38	peak	V
7386	41.30	4.49	45.79	54	-8.21	AVG	V
9848	56.58	8.08	64.66	74	-9.34	peak	V
9848	41.05	8.08	49.13	54	-4.87	AVG	V

Remark:
1.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement
Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
3.The test data shows only the worst case(802.11n(HT20) mode)

5 TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos

6 PHOTOS OF THE EUT

Refer to Appendix - EUT Photos

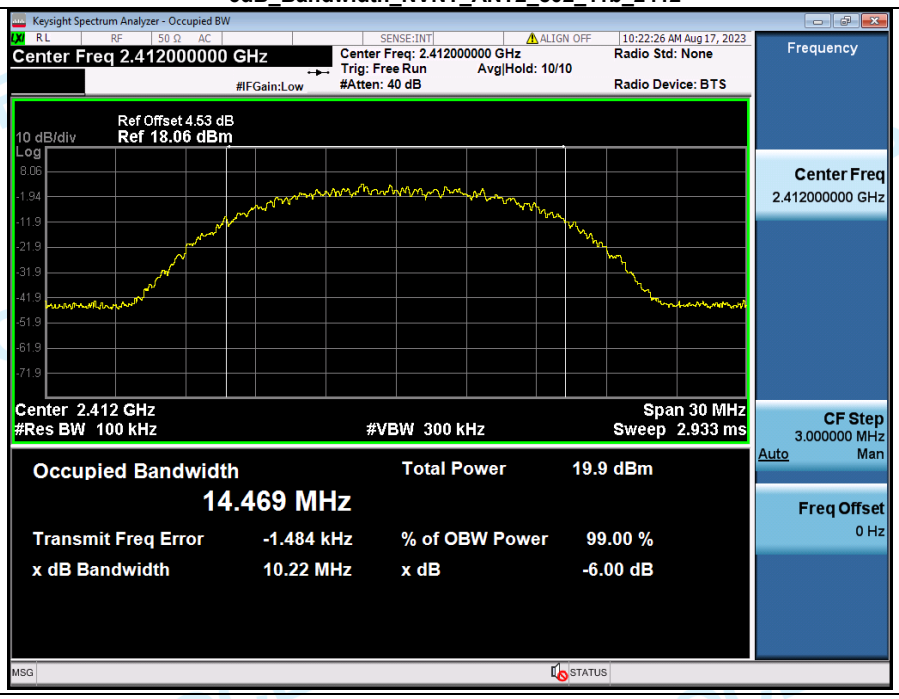
Appendix

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.22	500	Pass
NVNT	ANT2	802.11b	2412.00	10.22	500	Pass
NVNT	ANT1	802.11b	2437.00	10.22	500	Pass
NVNT	ANT2	802.11b	2437.00	10.22	500	Pass
NVNT	ANT1	802.11b	2462.00	10.22	500	Pass
NVNT	ANT2	802.11b	2462.00	10.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.51	500	Pass
NVNT	ANT2	802.11g	2412.00	16.50	500	Pass
NVNT	ANT1	802.11g	2437.00	16.51	500	Pass
NVNT	ANT2	802.11g	2437.00	16.50	500	Pass
NVNT	ANT1	802.11g	2462.00	16.51	500	Pass
NVNT	ANT2	802.11g	2462.00	16.50	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.71	500	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	17.72	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.72	500	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	17.73	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.72	500	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	17.73	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.43	500	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	36.46	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.42	500	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	36.46	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.43	500	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	36.45	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412

-6dB_Bandwidth_NVNT_ANT2_802_11b_2412



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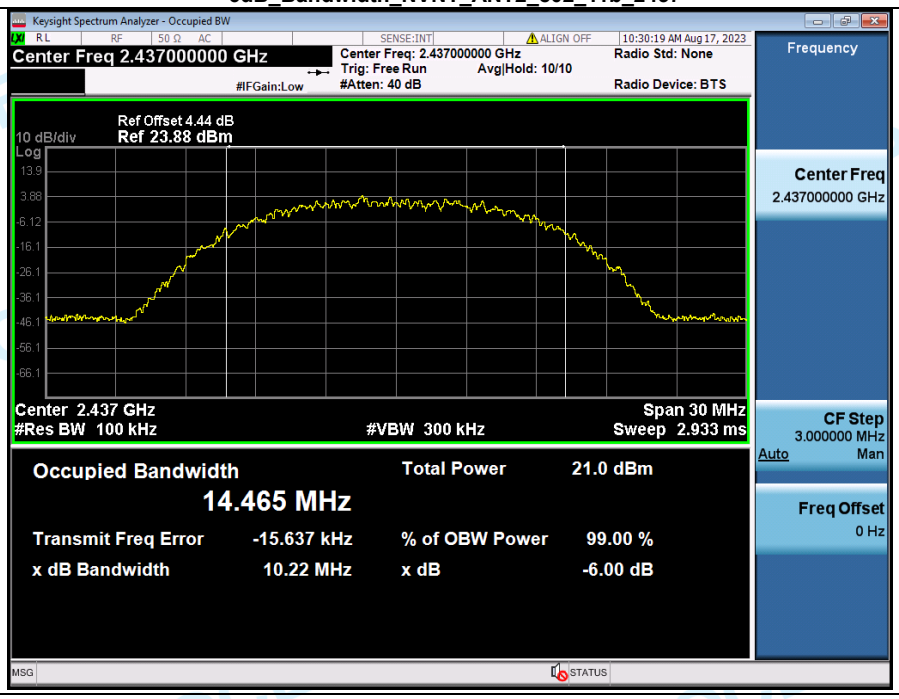

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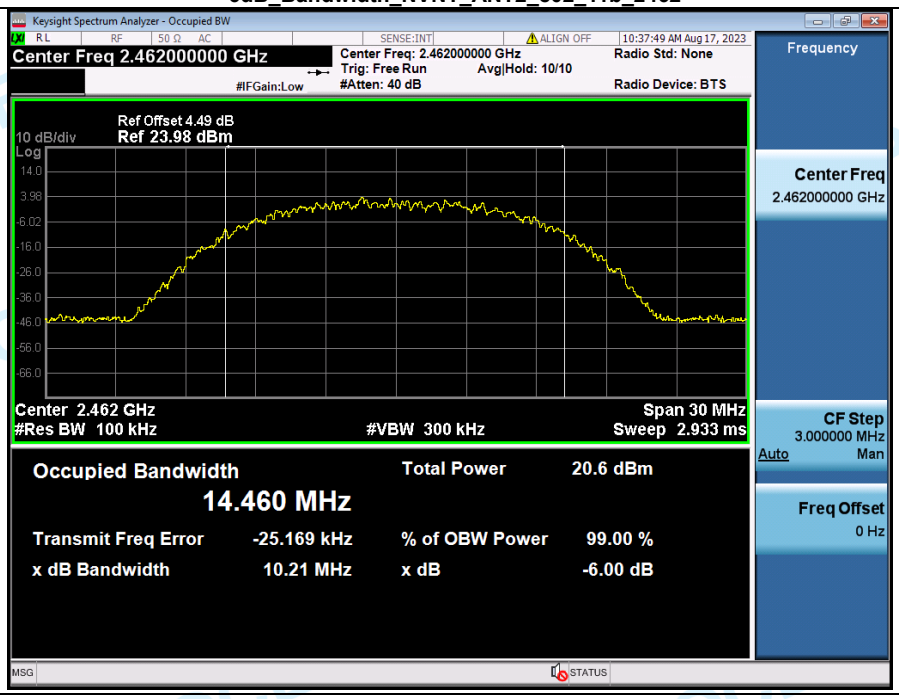

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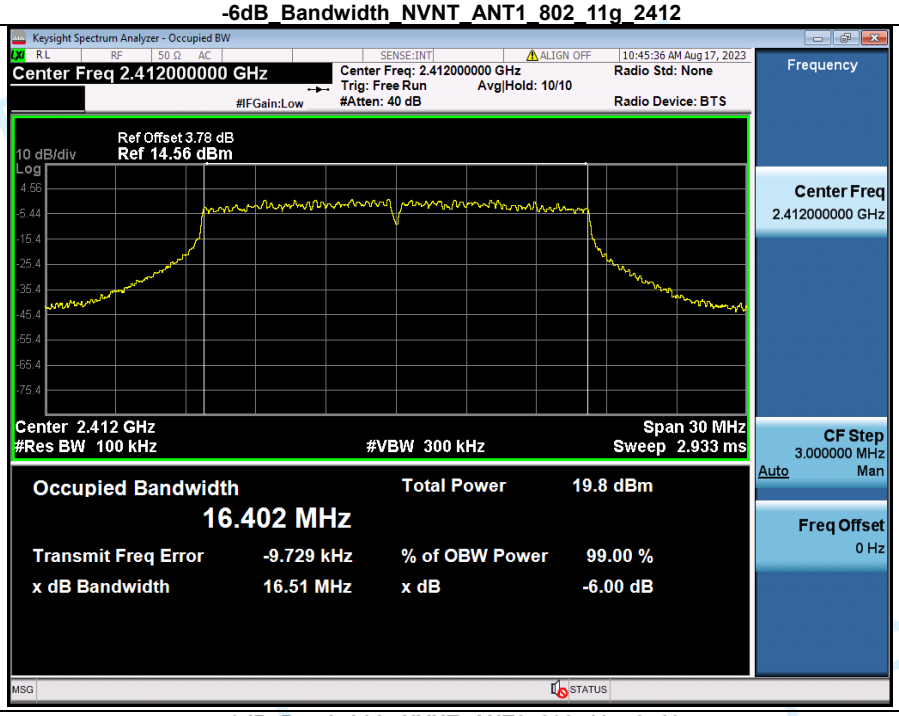

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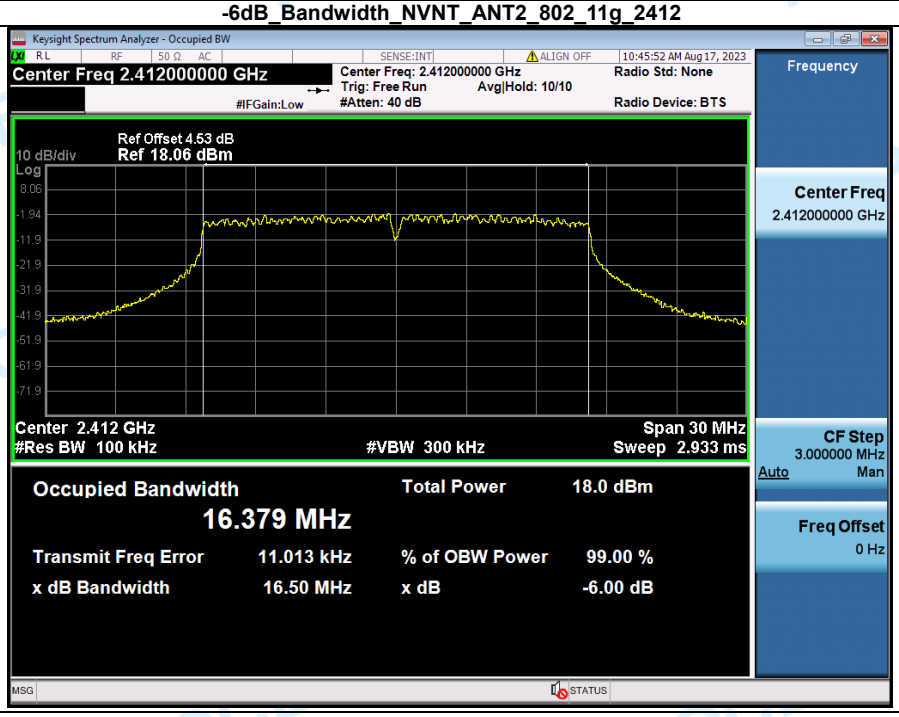

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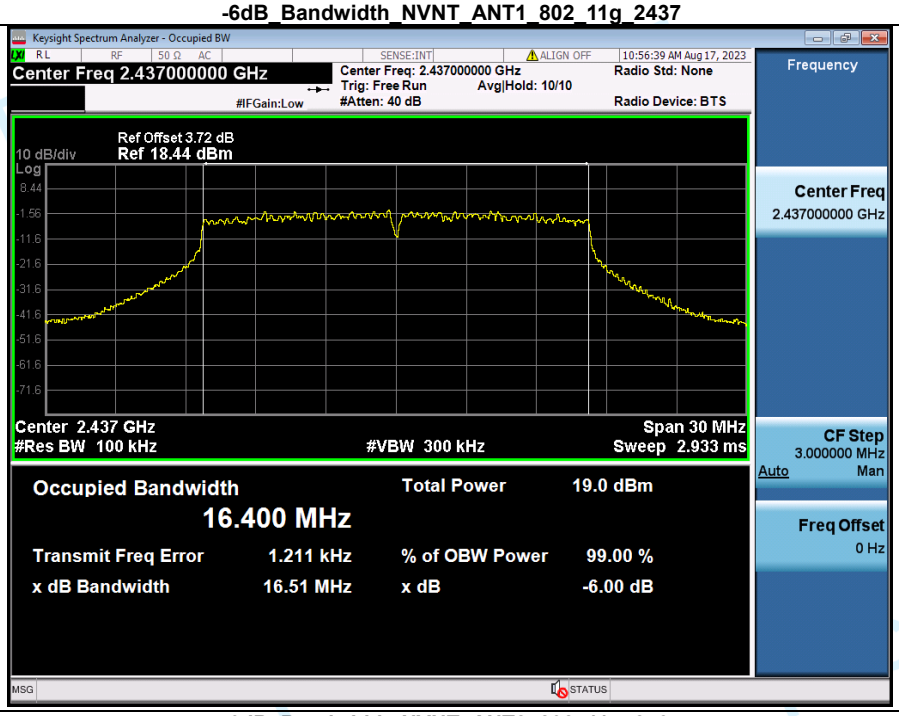

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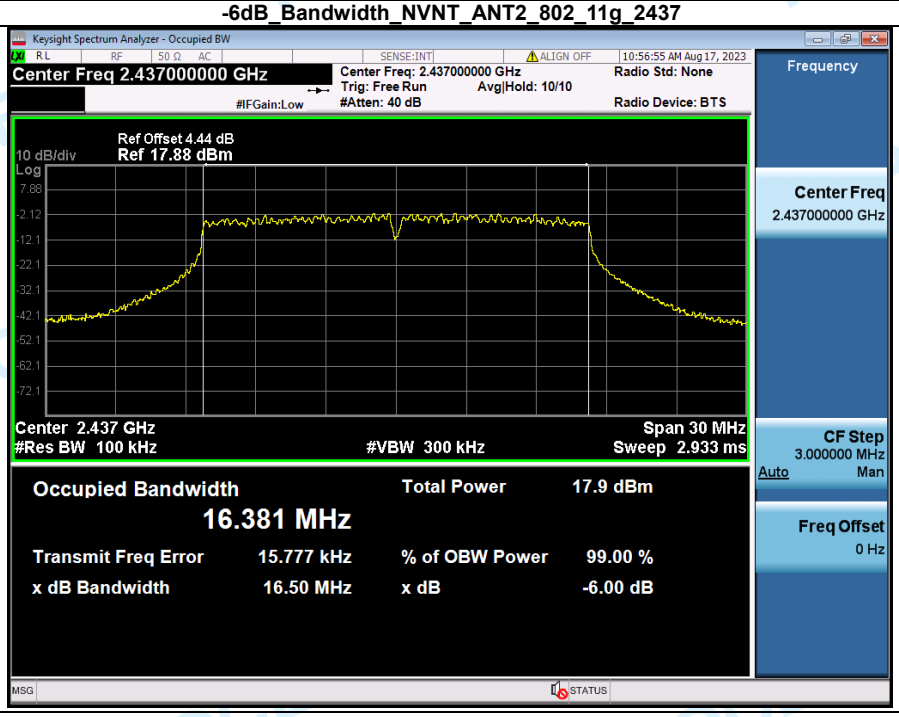
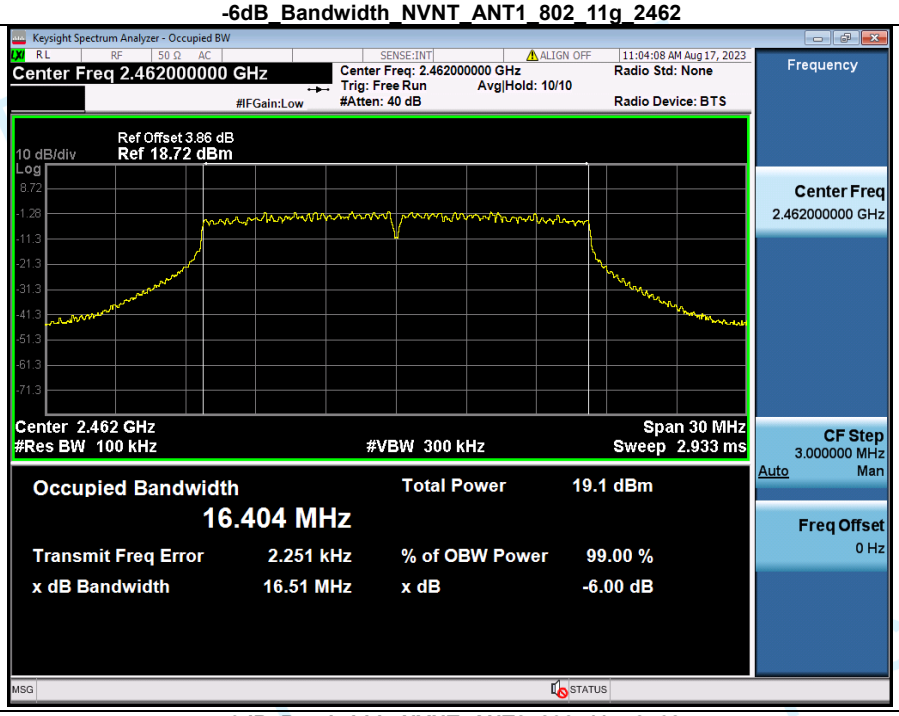
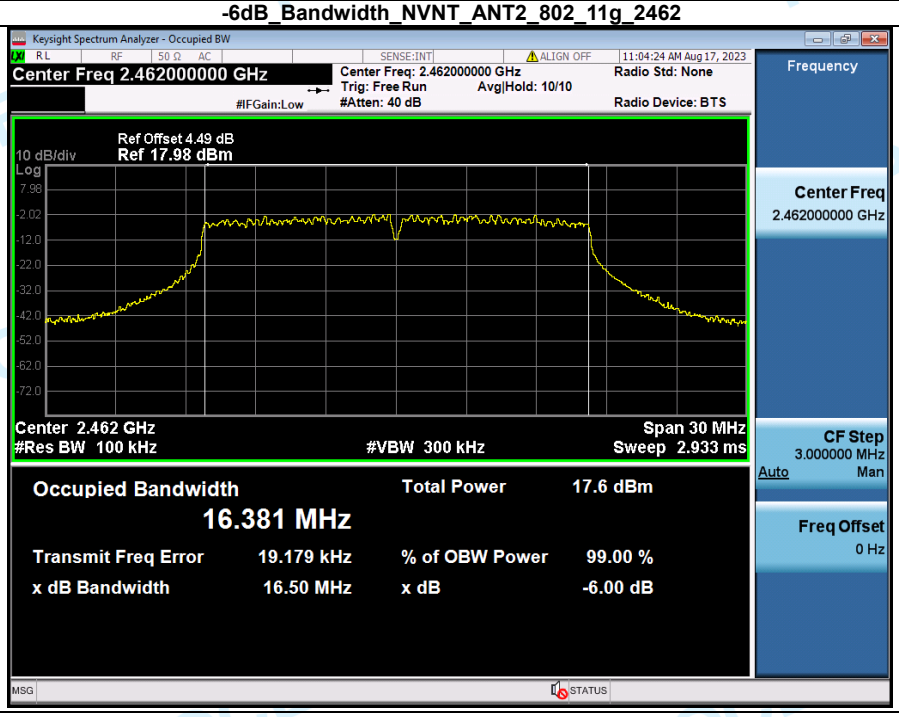


-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



-6dB_Bandwidth_NVNT_ANT2_802_11g_2462



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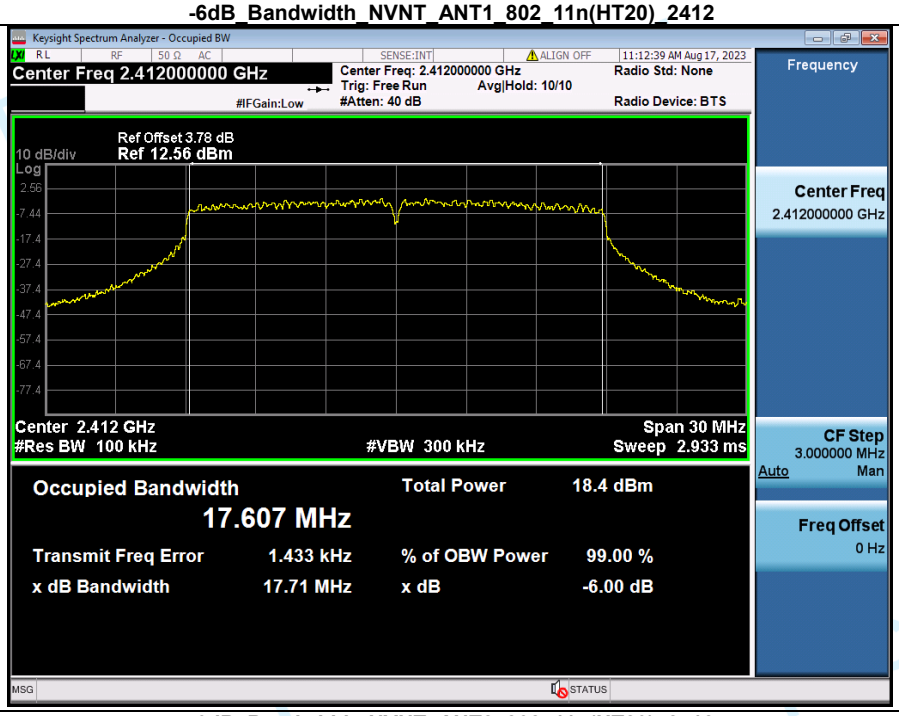
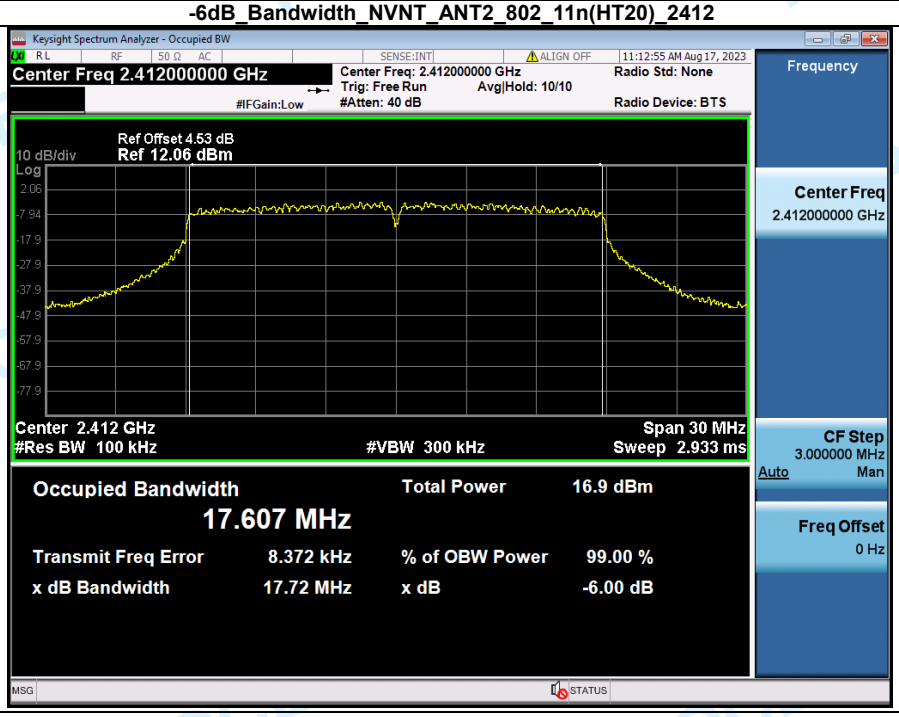
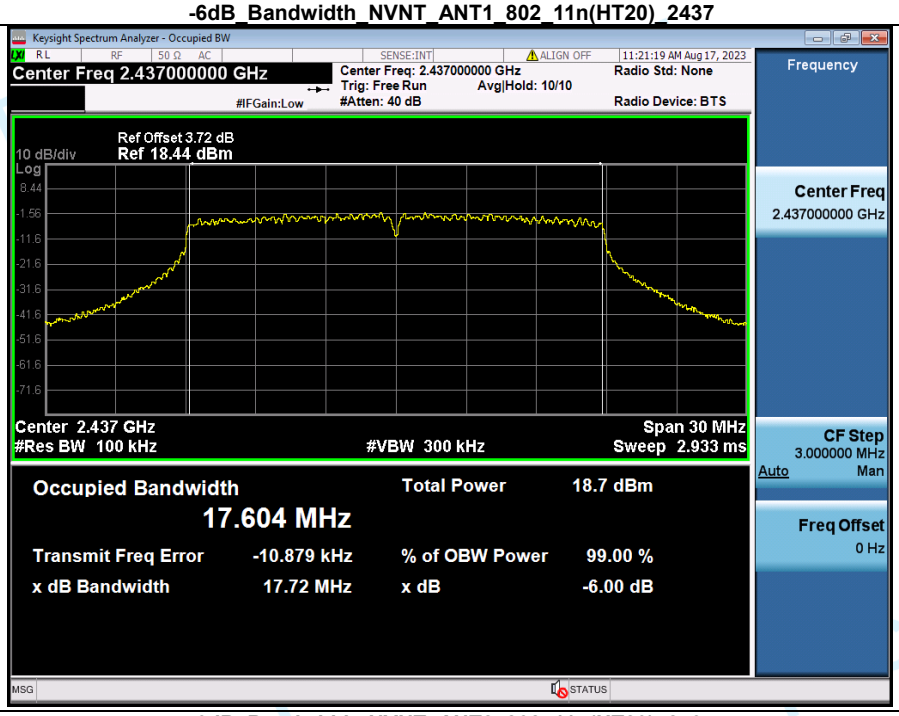


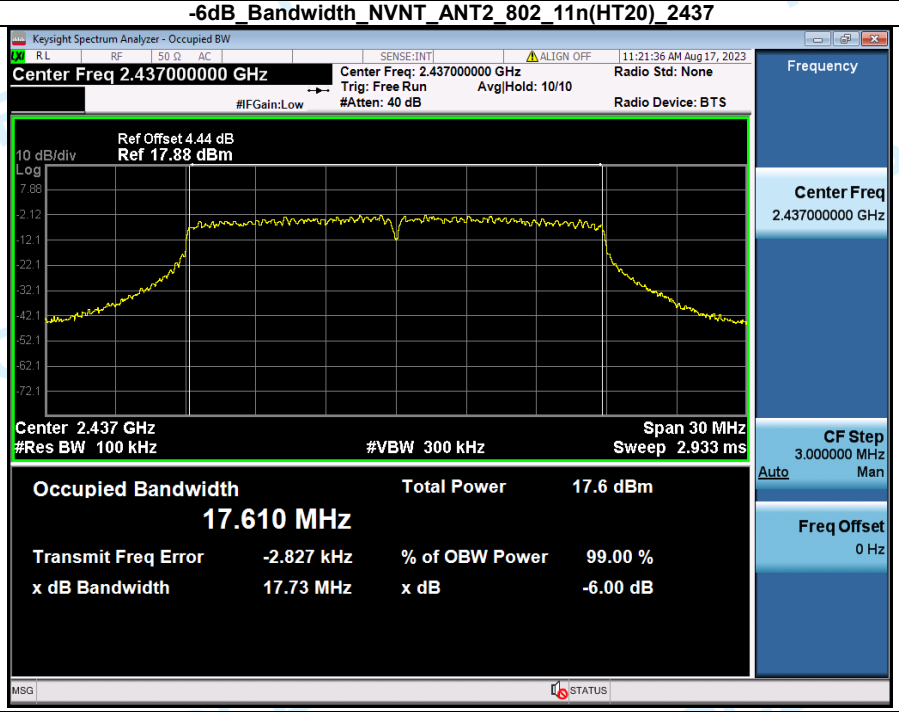
-6dB_Bandwidth_NVNT_ANT2_802_11n(HT20)_2412



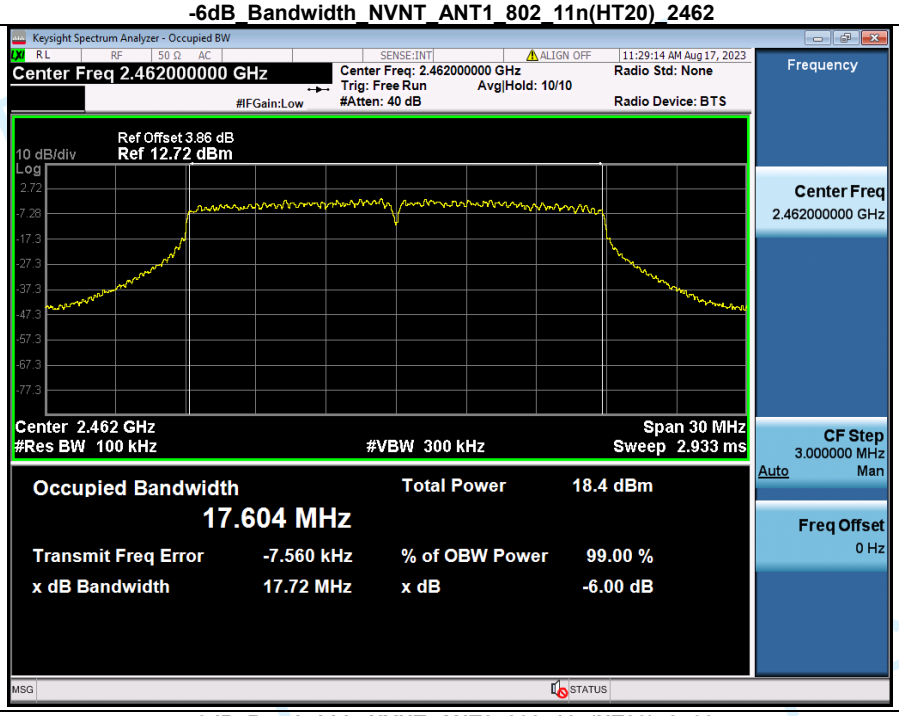
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT2_802_11n(HT20)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



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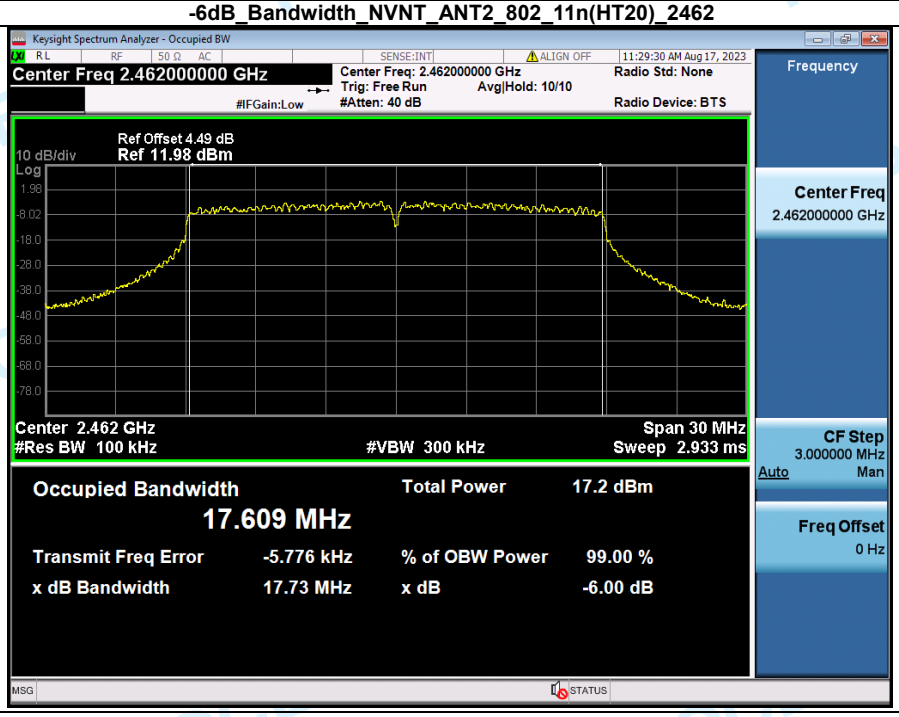
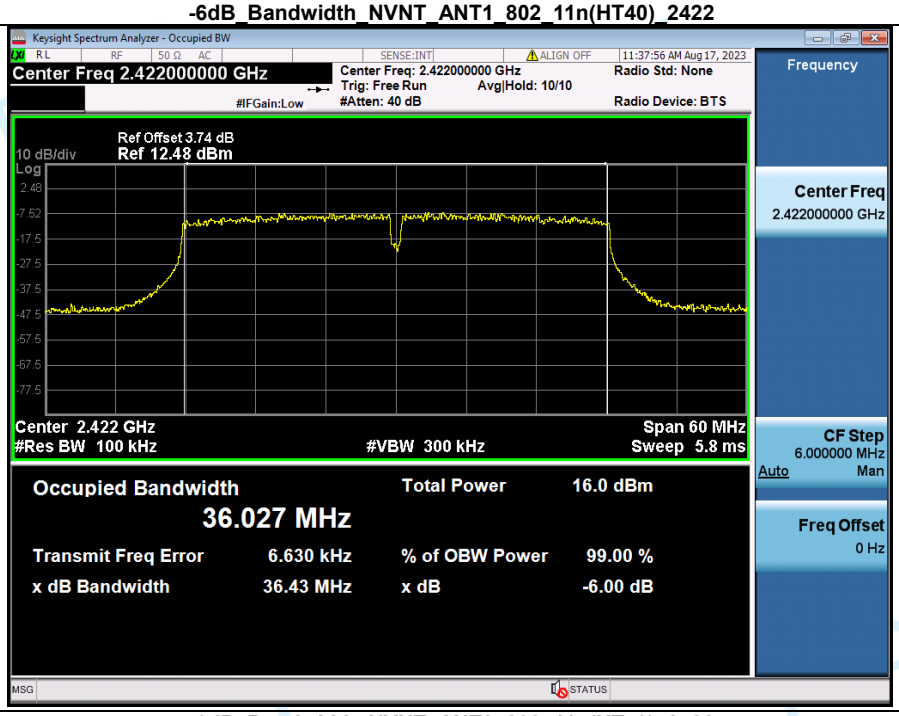
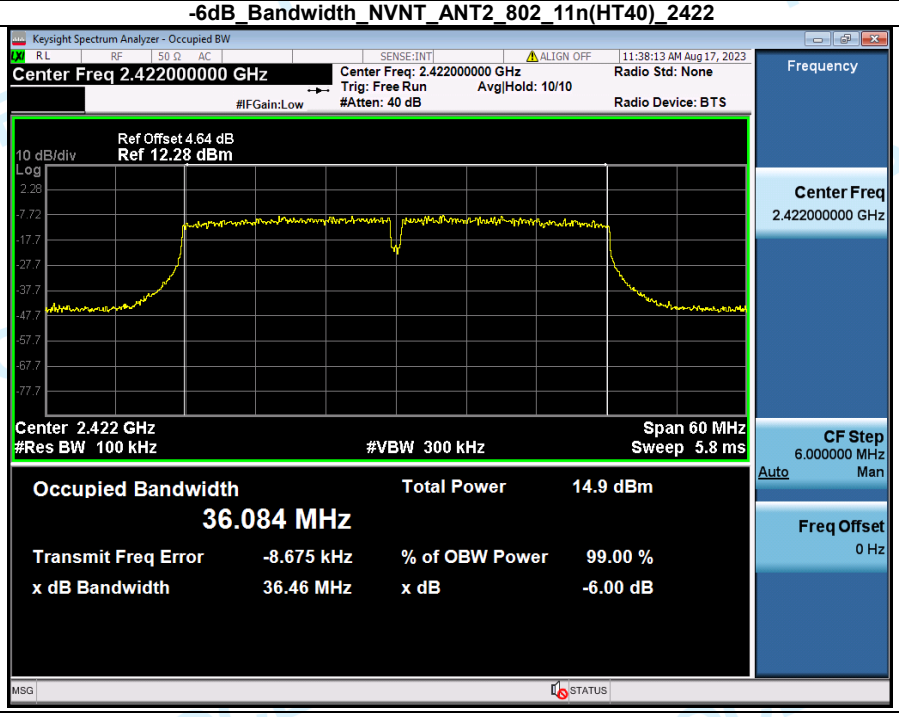


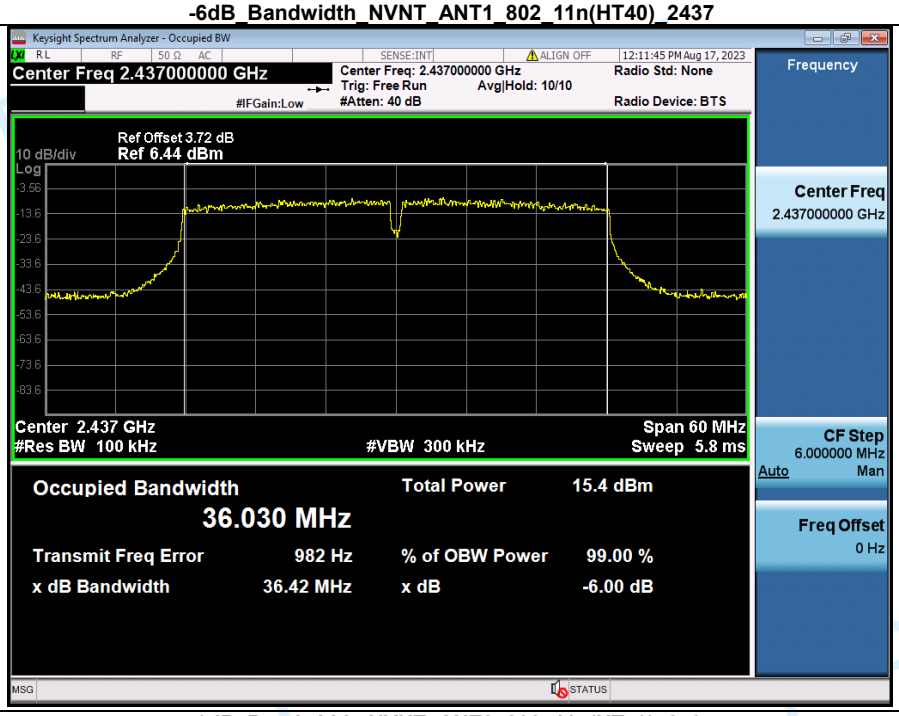
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT2_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



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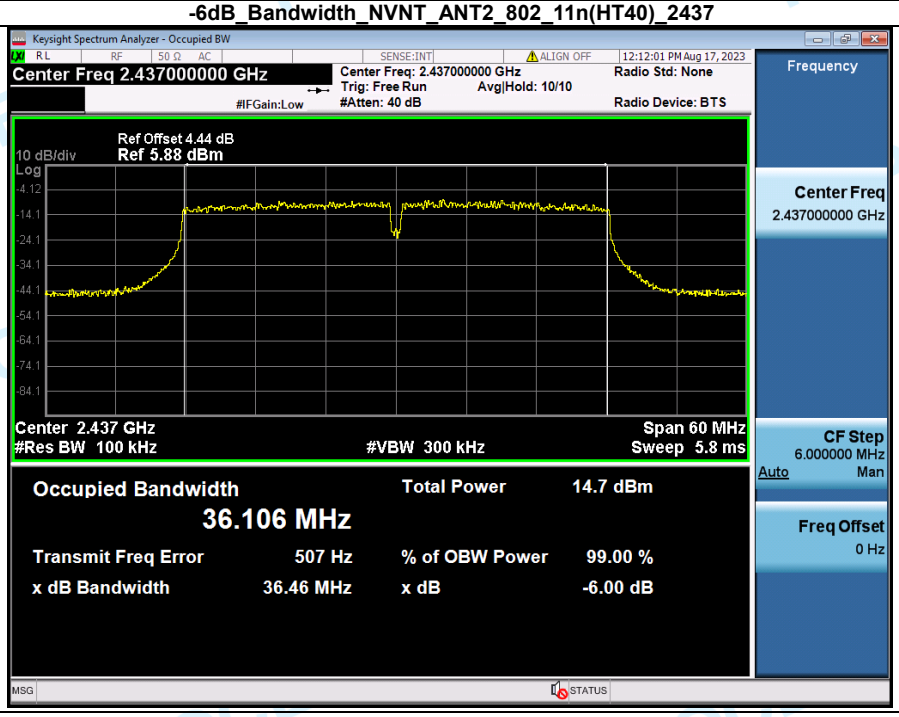
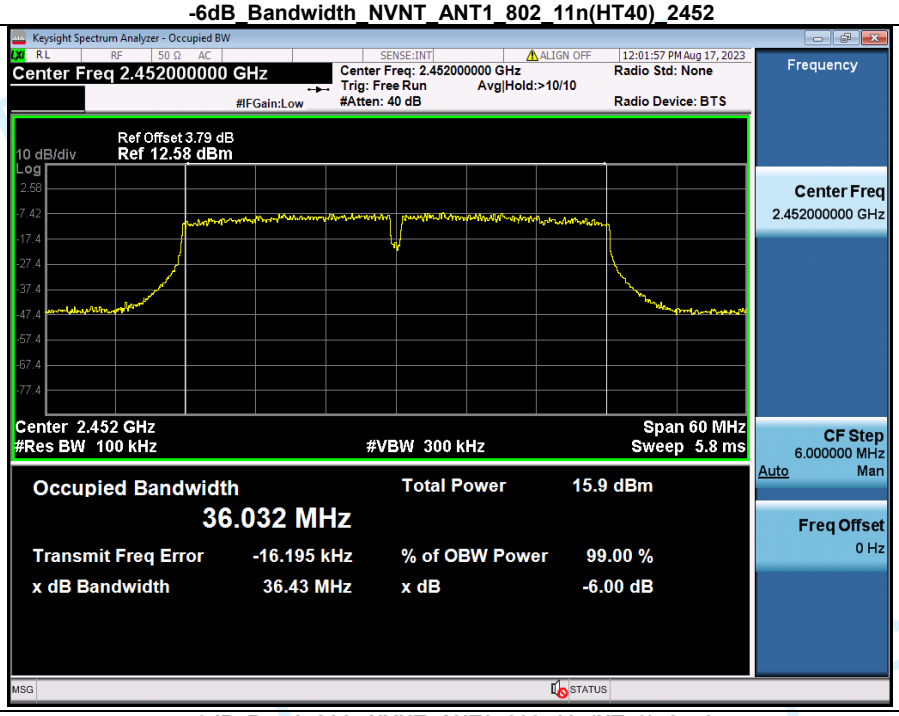


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



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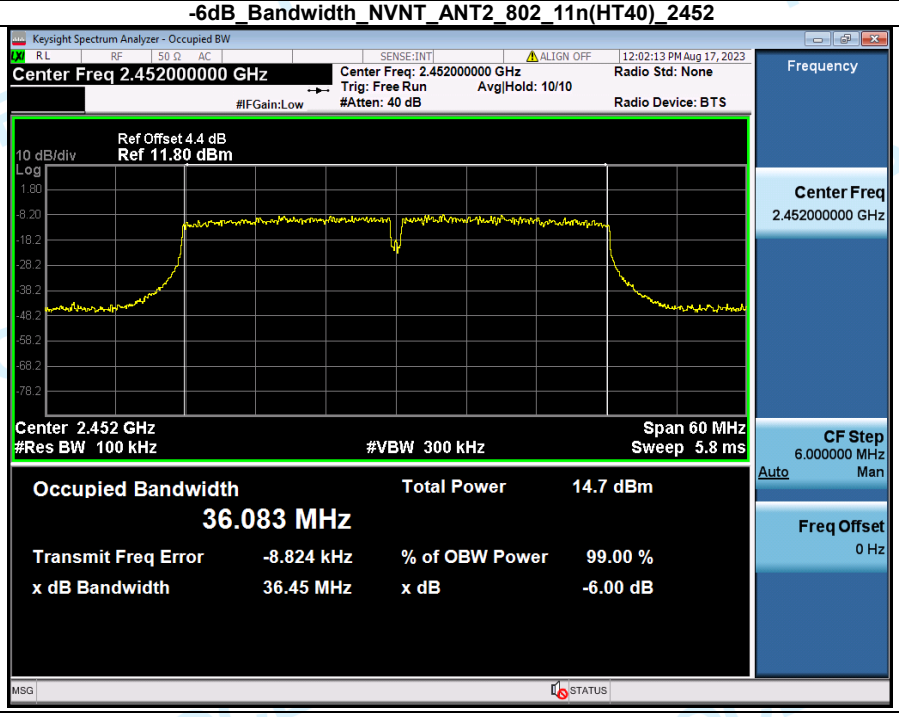
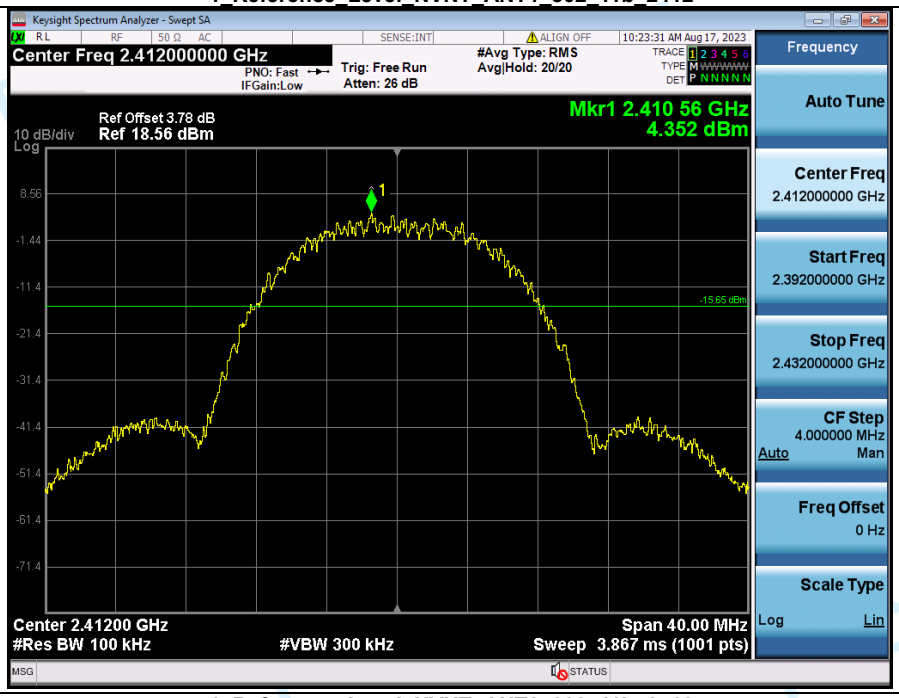


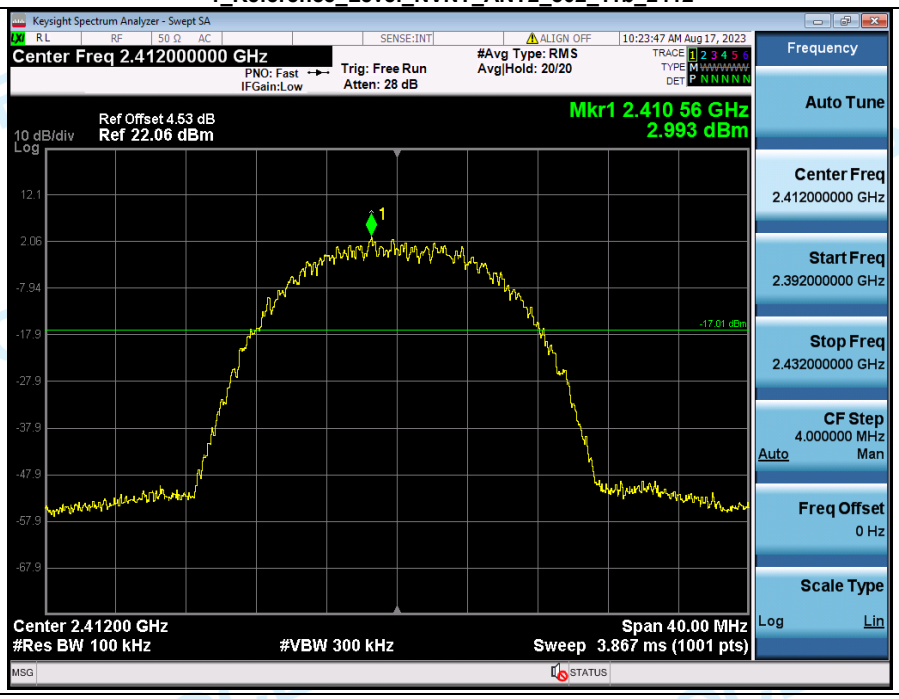
2. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.928	-39.778	-15.648	Pass
NVNT	ANT2	802.11b	2412.00	2399.936	-51.720	-15.648	Pass
NVNT	ANT1	802.11b	2462.00	2484.496	-55.683	-15.380	Pass
NVNT	ANT2	802.11b	2462.00	2483.536	-56.541	-15.380	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-38.491	-20.100	Pass
NVNT	ANT2	802.11g	2412.00	2399.936	-42.547	-20.100	Pass
NVNT	ANT1	802.11g	2462.00	2483.728	-53.830	-20.513	Pass
NVNT	ANT2	802.11g	2462.00	2483.872	-55.566	-20.513	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-36.607	-21.386	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	2399.712	-39.700	-21.386	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.456	-54.316	-21.468	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	2483.824	-54.898	-21.468	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-45.624	-27.237	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	2399.892	-46.297	-27.237	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-56.099	-27.815	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	2486.672	-55.036	-27.815	Pass

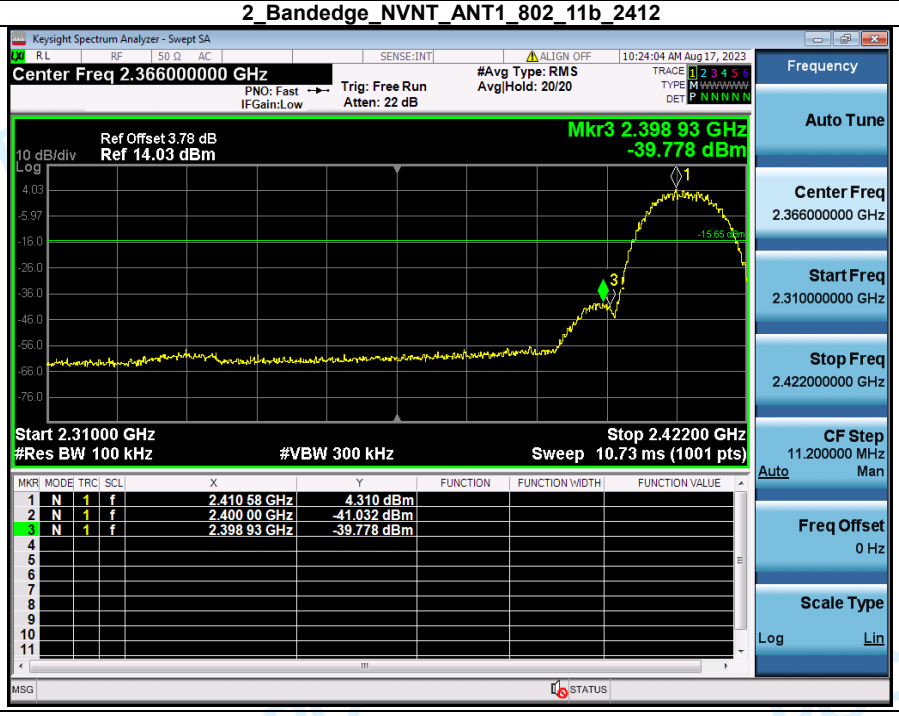
1_Reference_Level_NVNT_ANT1_802_11b_2412



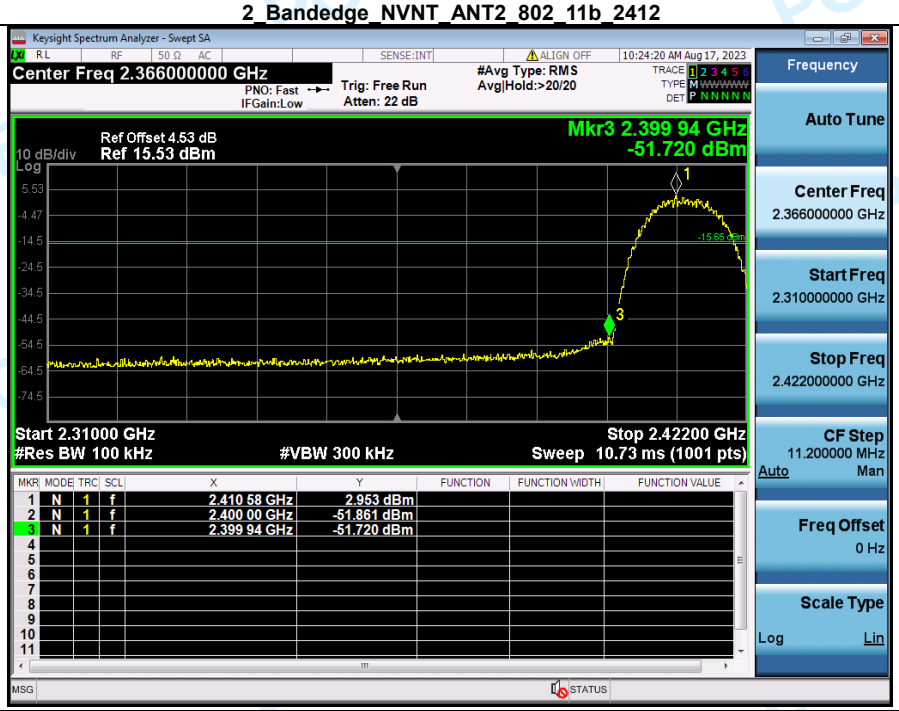
1_Reference_Level_NVNT_ANT2_802_11b_2412



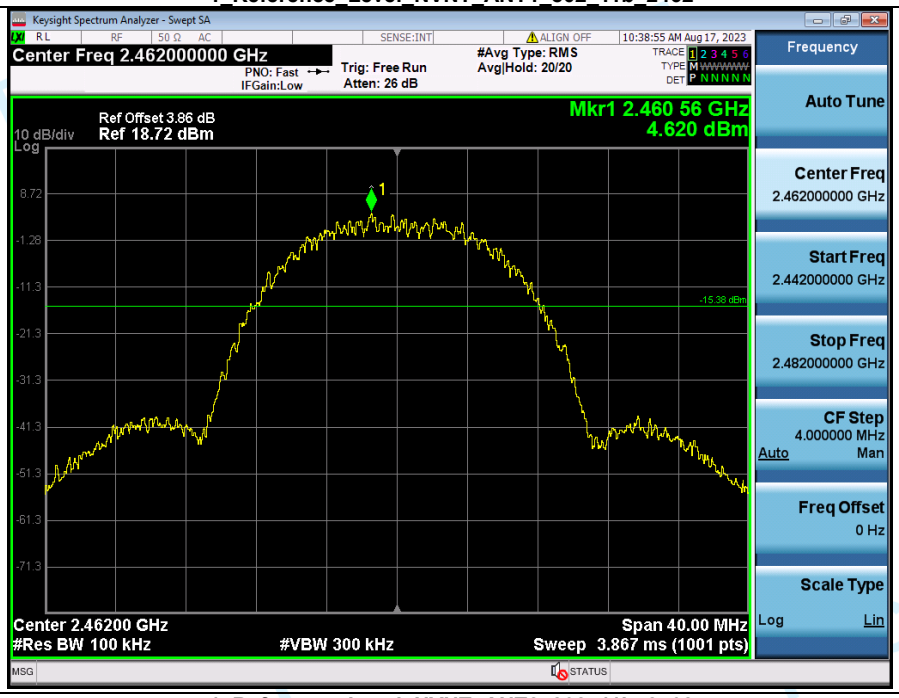
2_Bandedge_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT2_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2462



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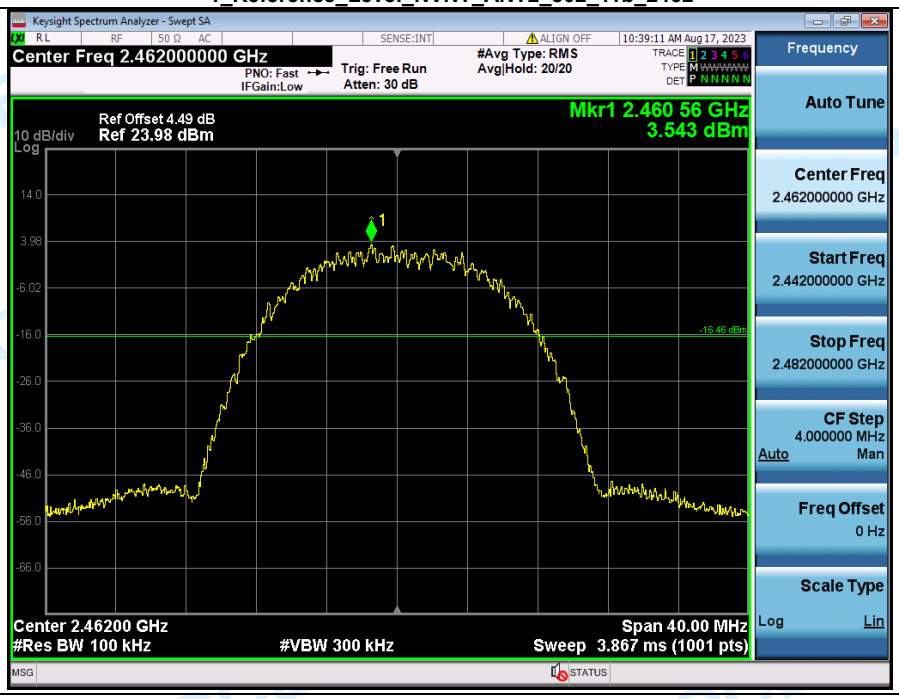

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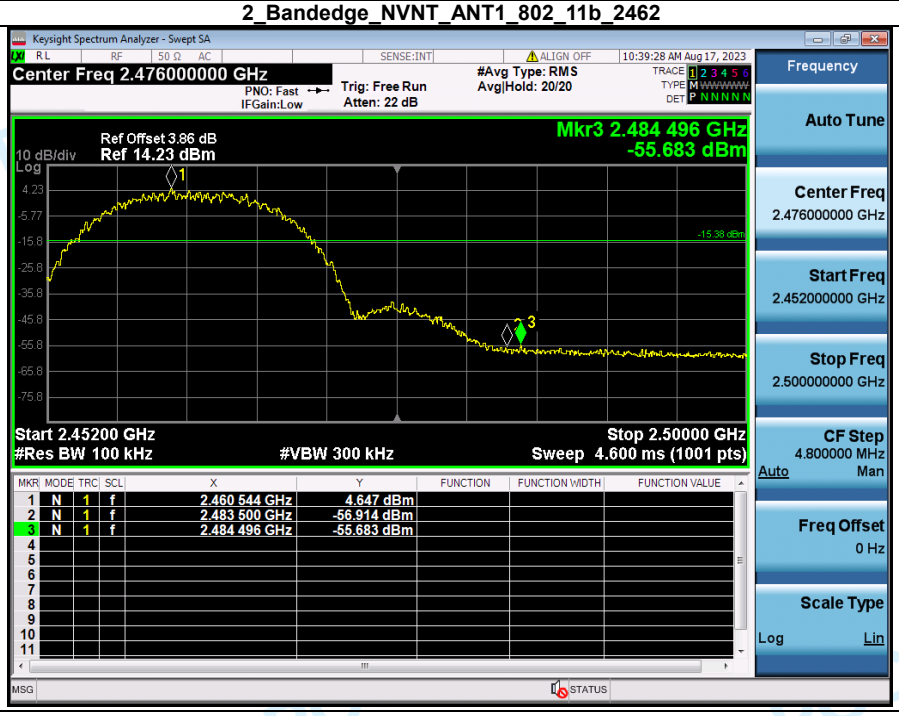

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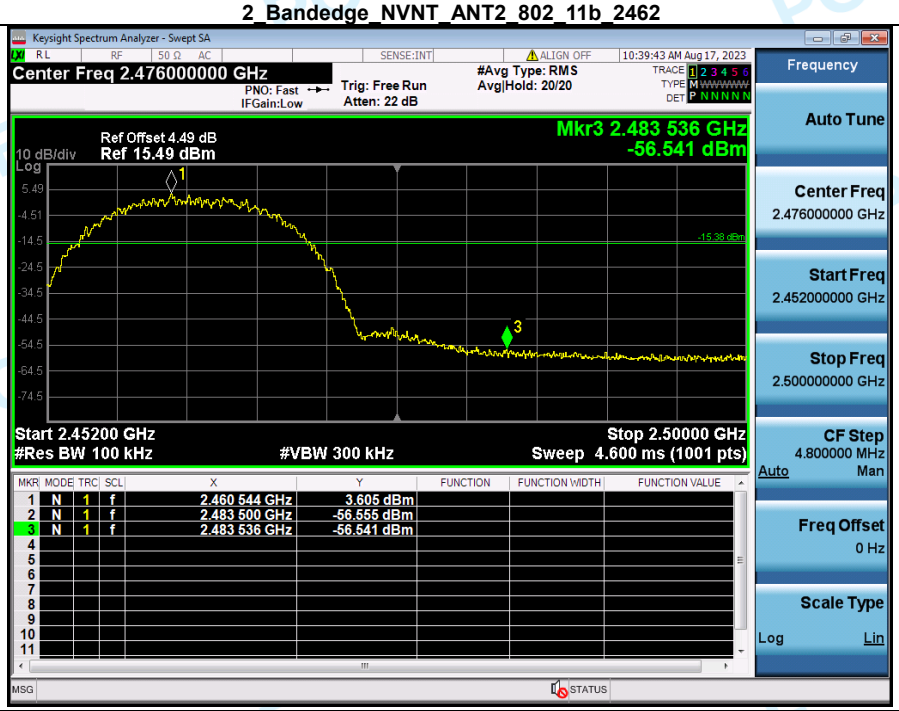
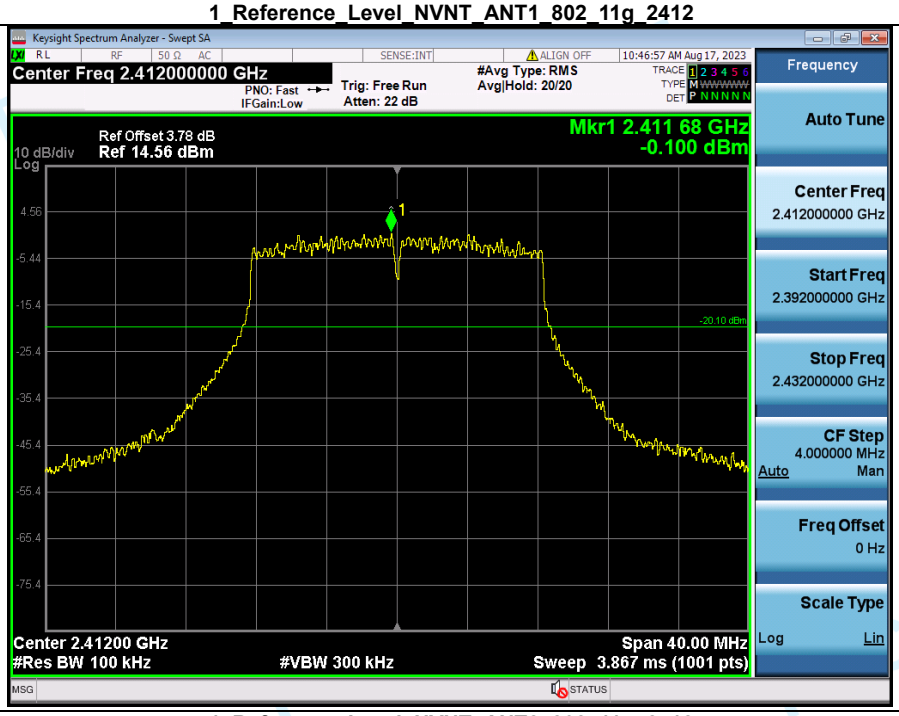


1_Reference_Level_NVNT_ANT1_802_11g_2412



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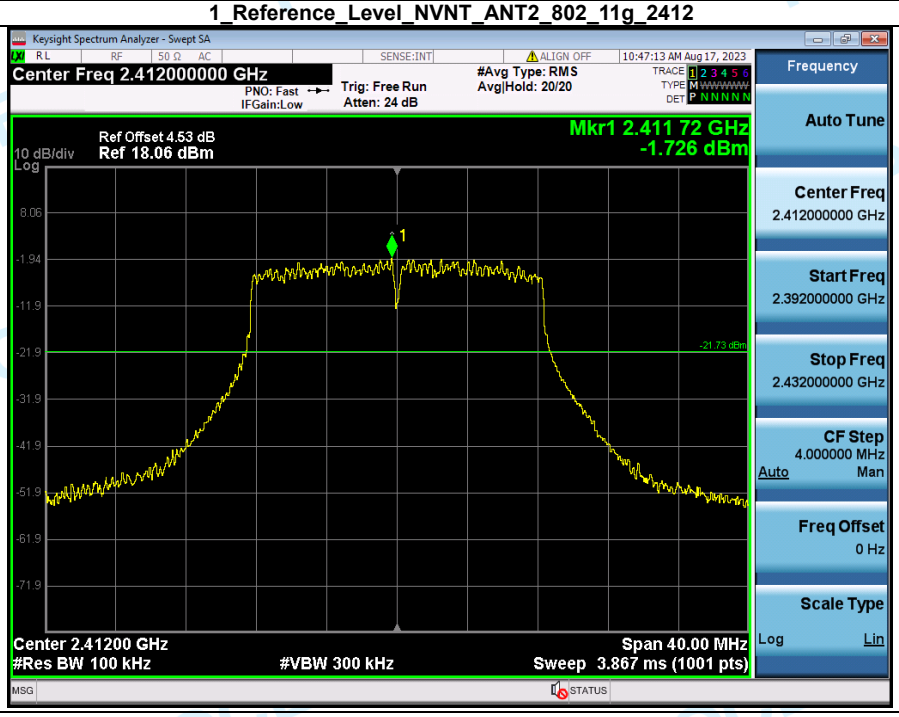
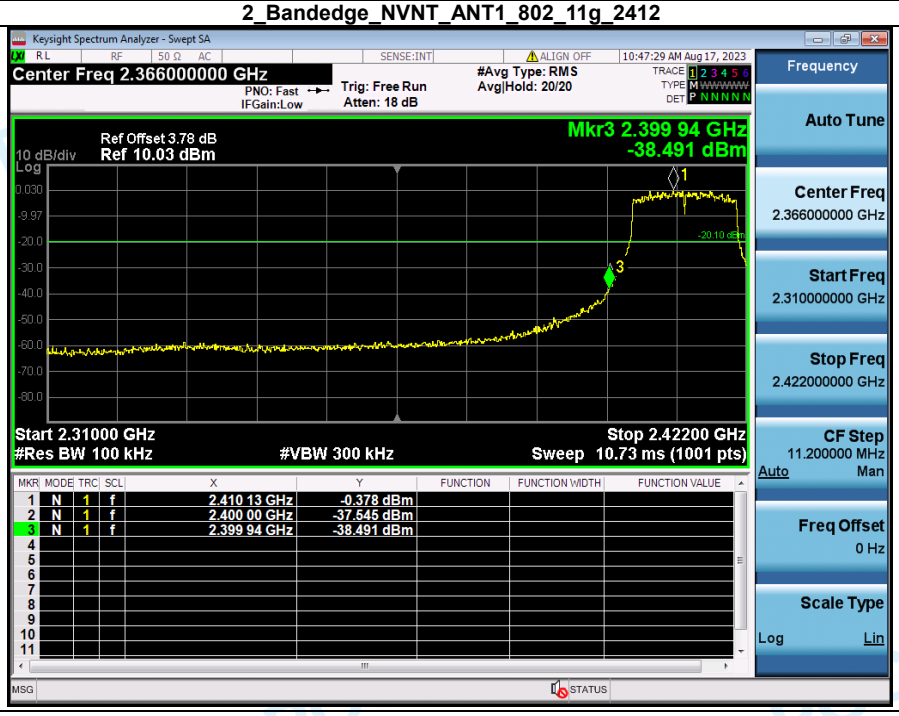


2_Bandedge_NVNT_ANT1_802_11g_2412



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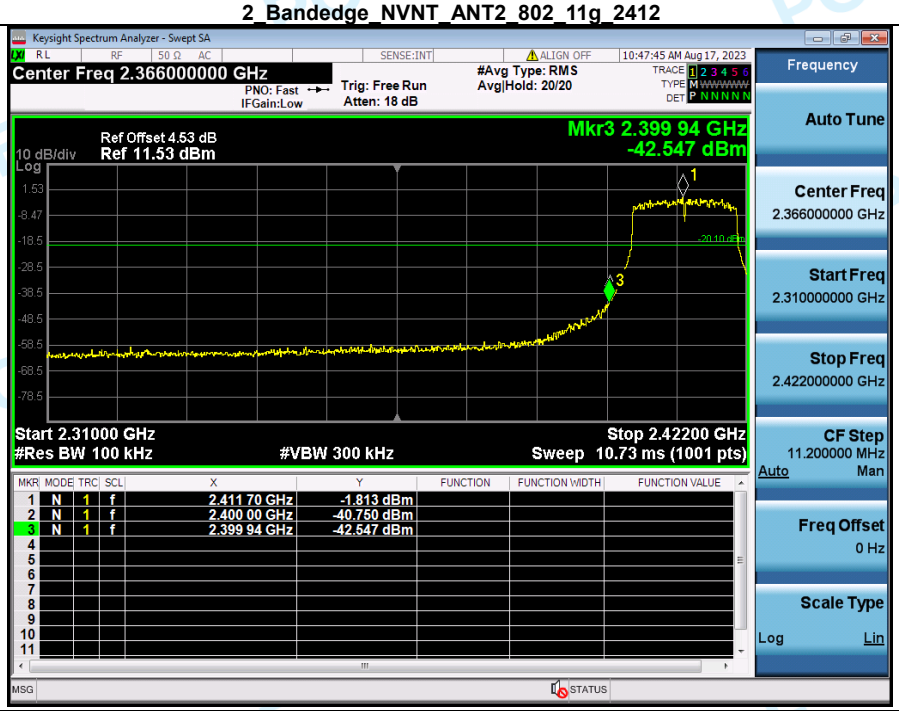
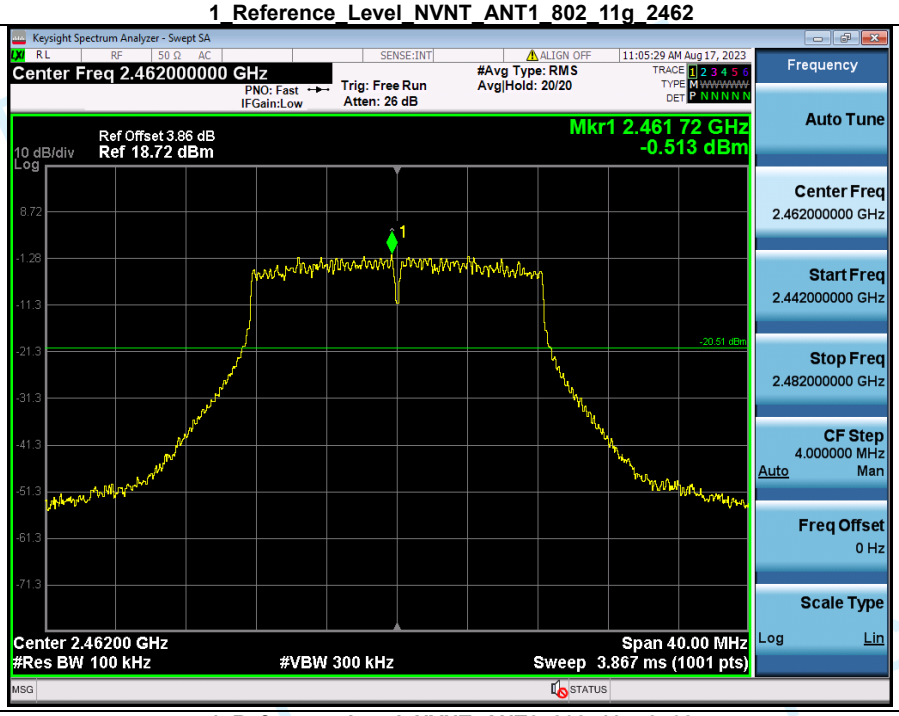


1_Reference_Level_NVNT_ANT1_802_11g_2462

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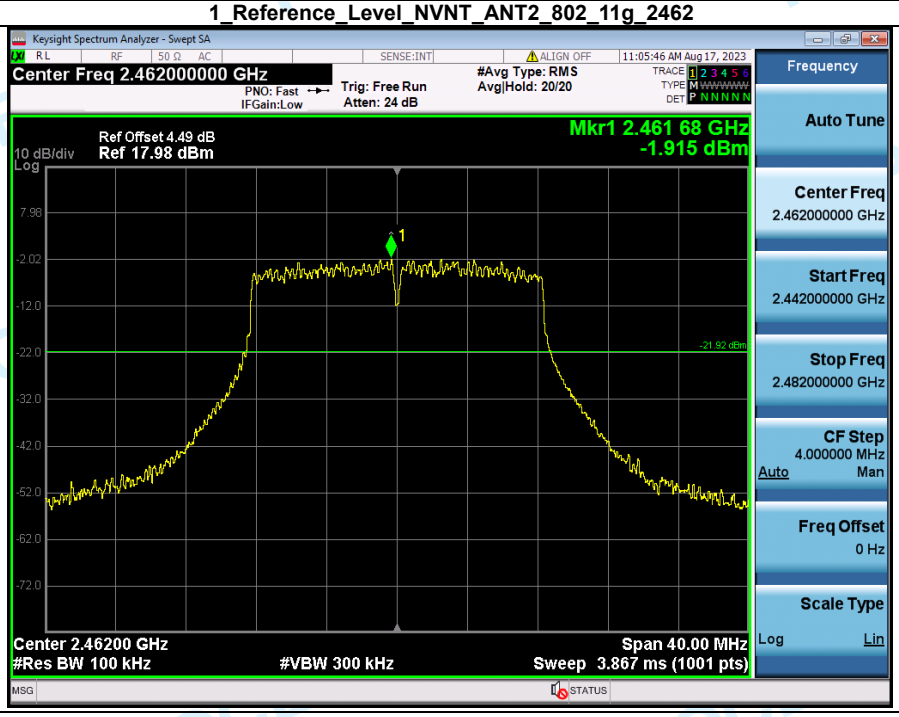
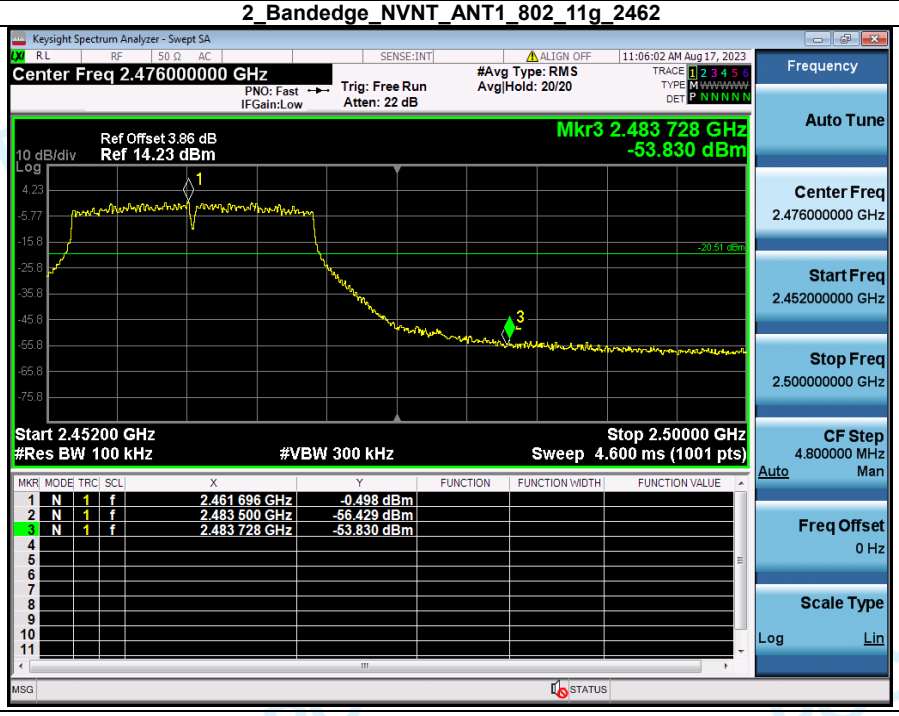


2_Bandedge_NVNT_ANT1_802_11g_2462



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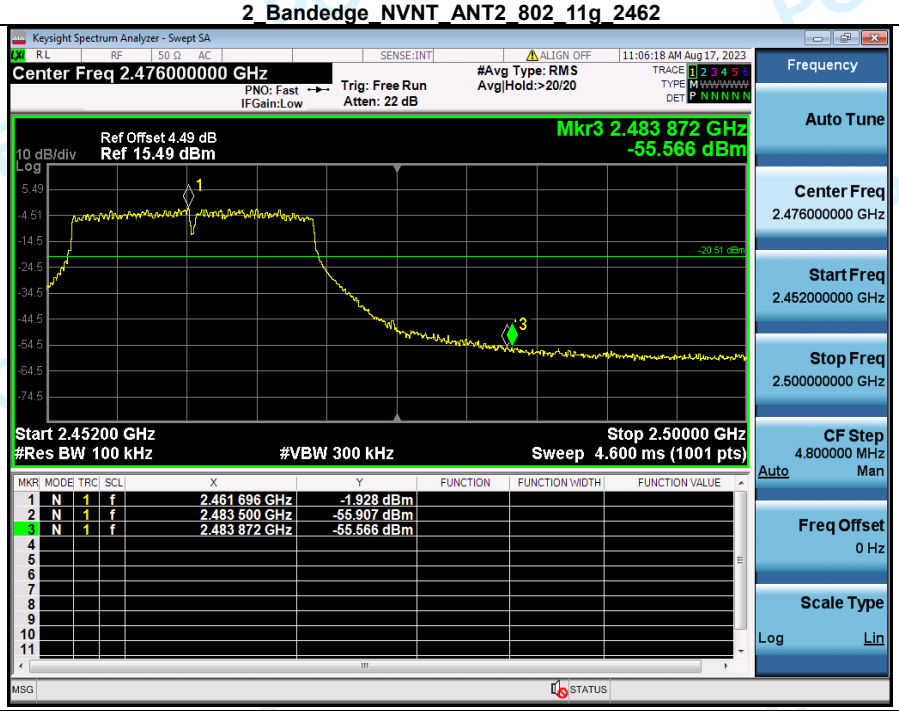
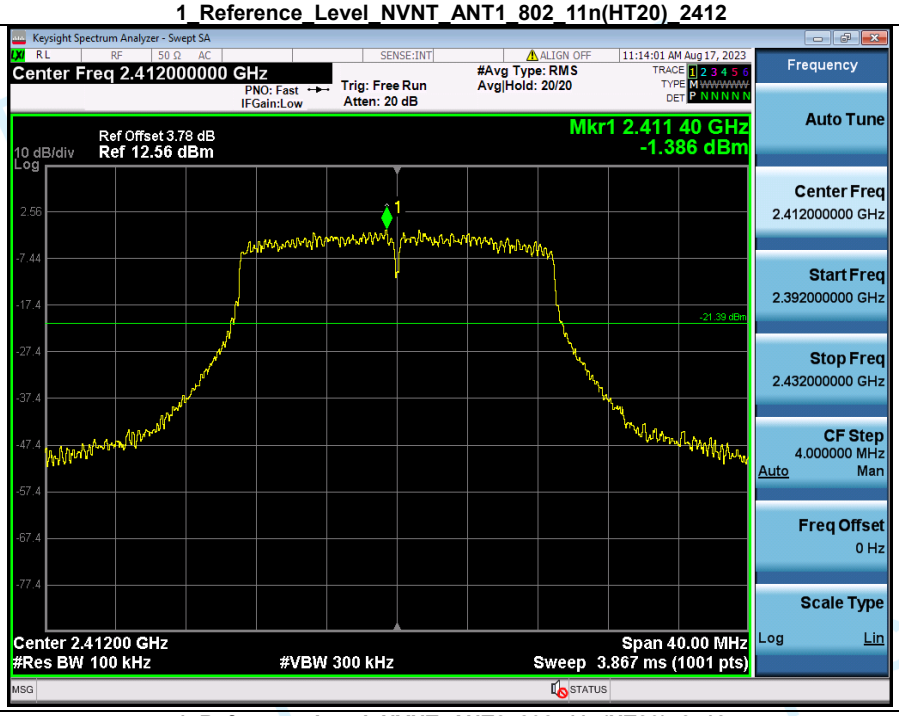


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

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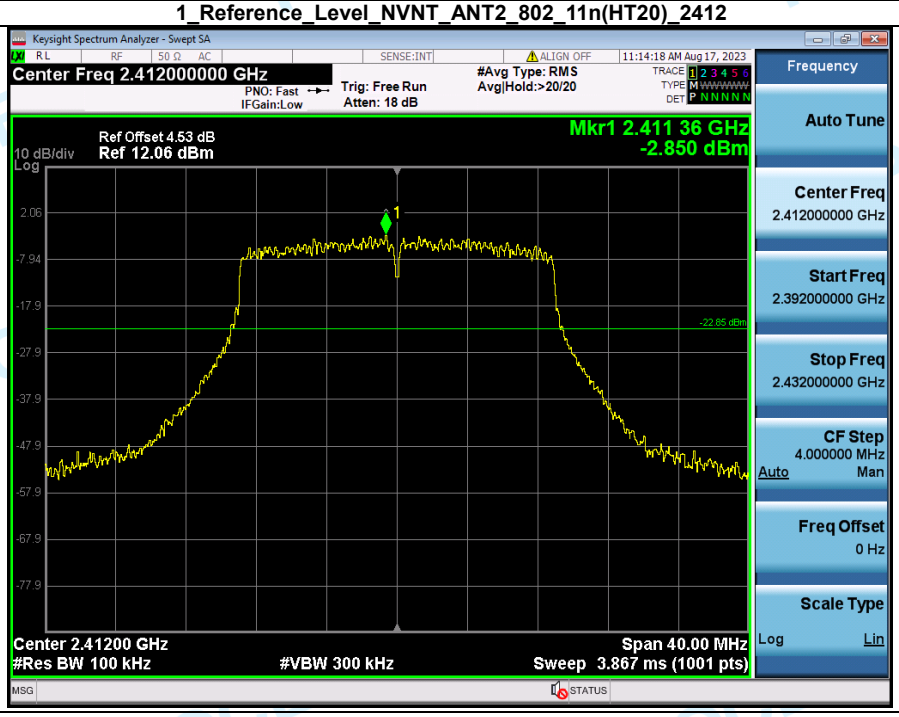
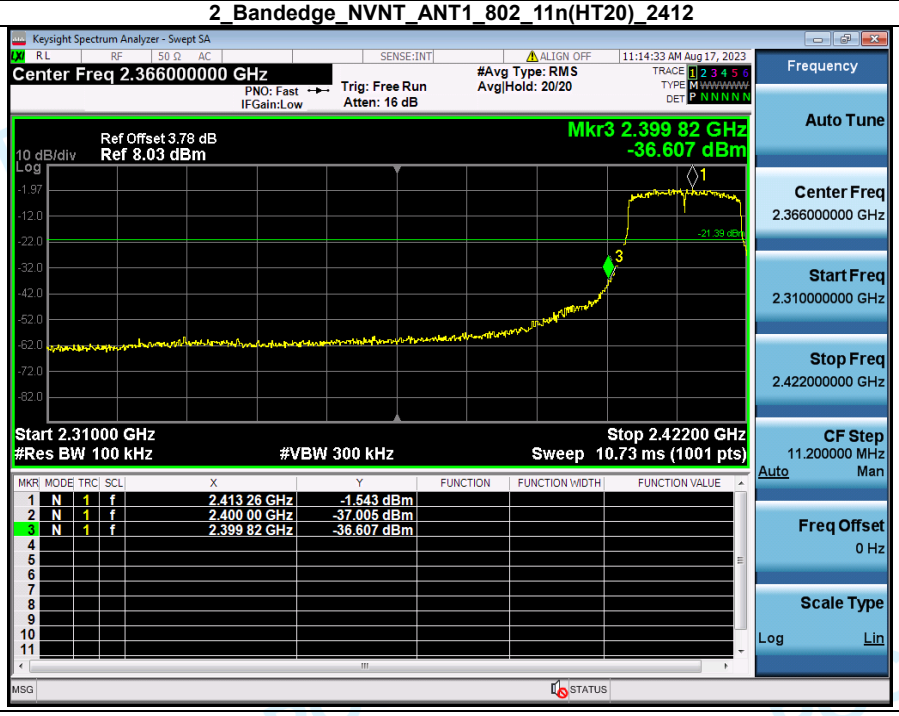


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



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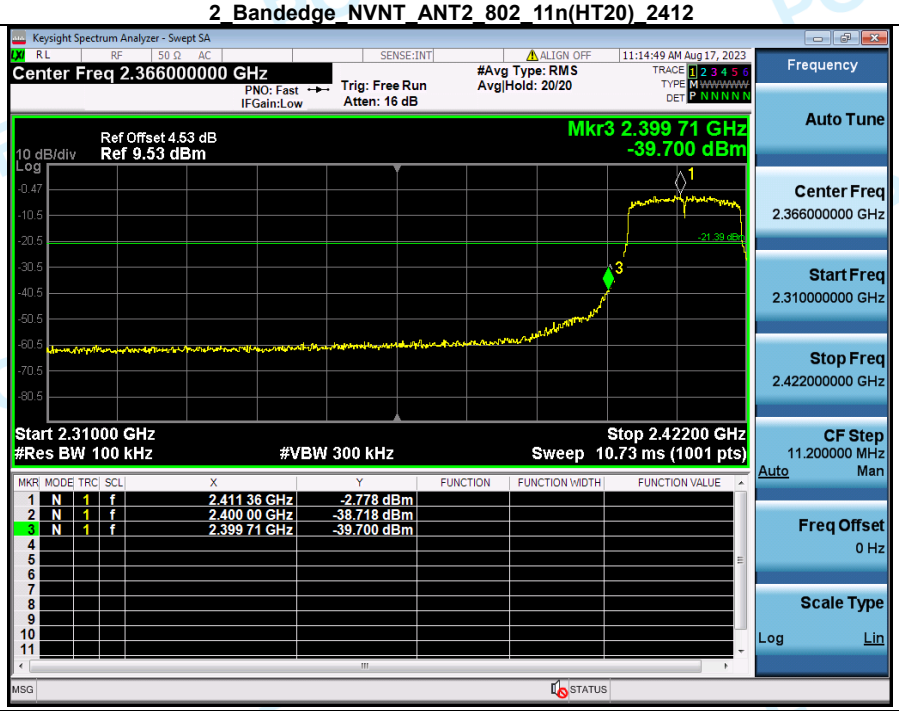
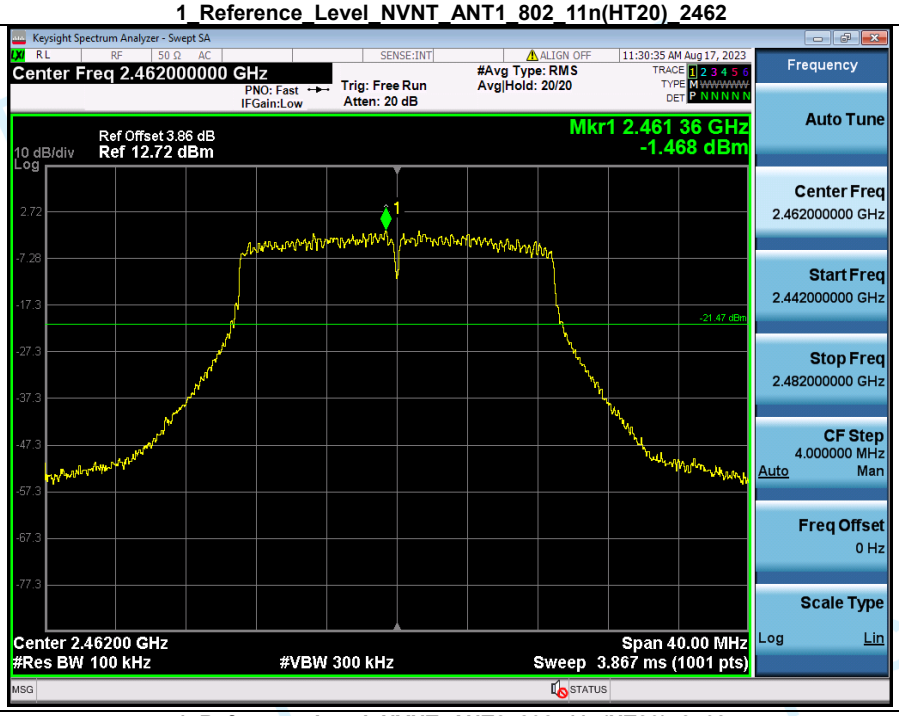
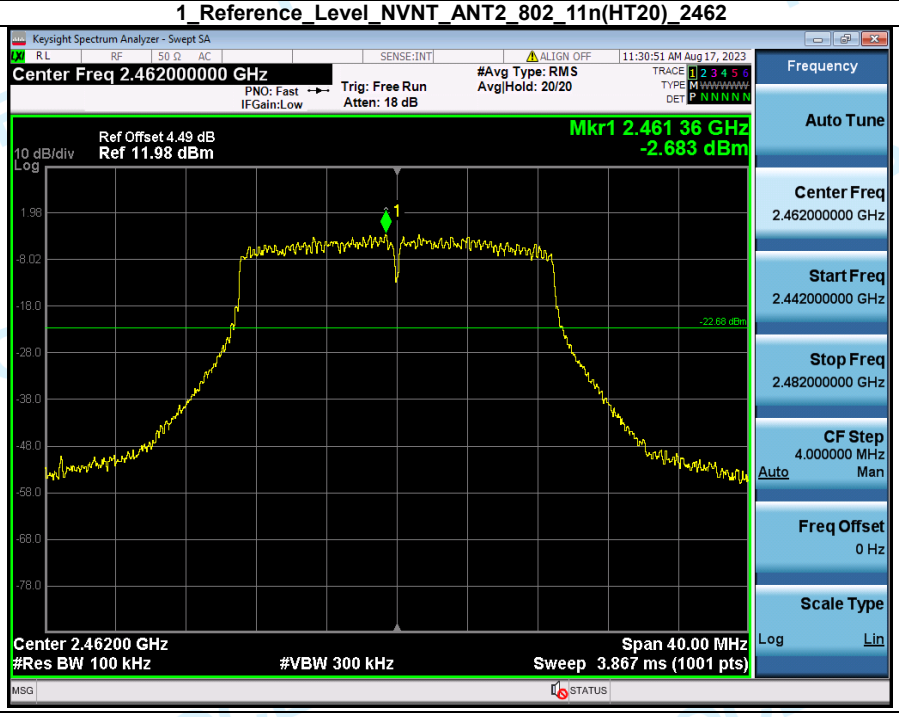


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

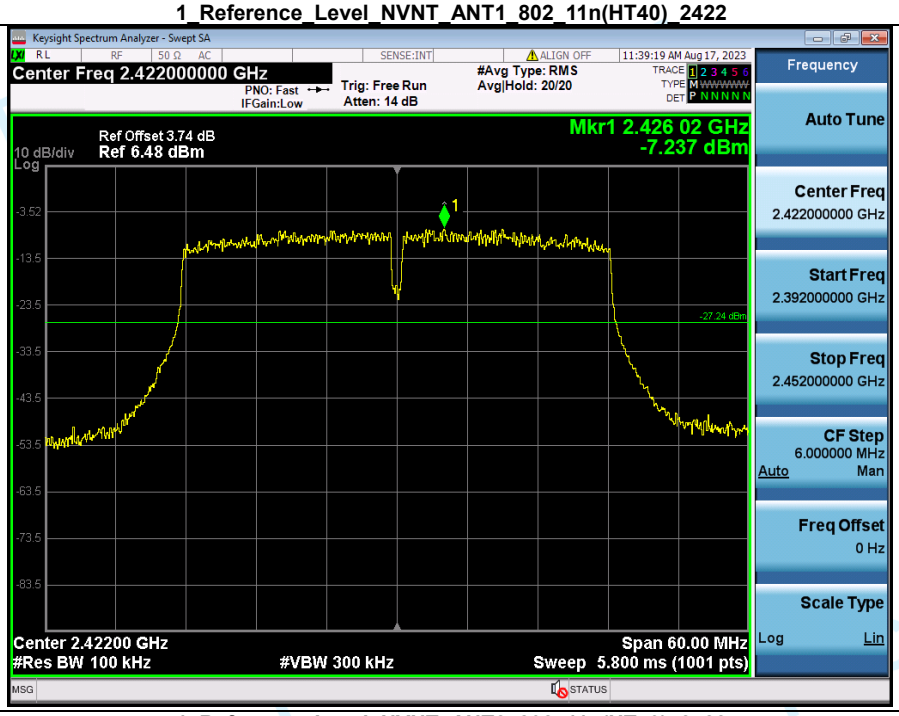


1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462

2_Bandedge_NVNT_ANT2_802_11n(HT20)_2462

1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

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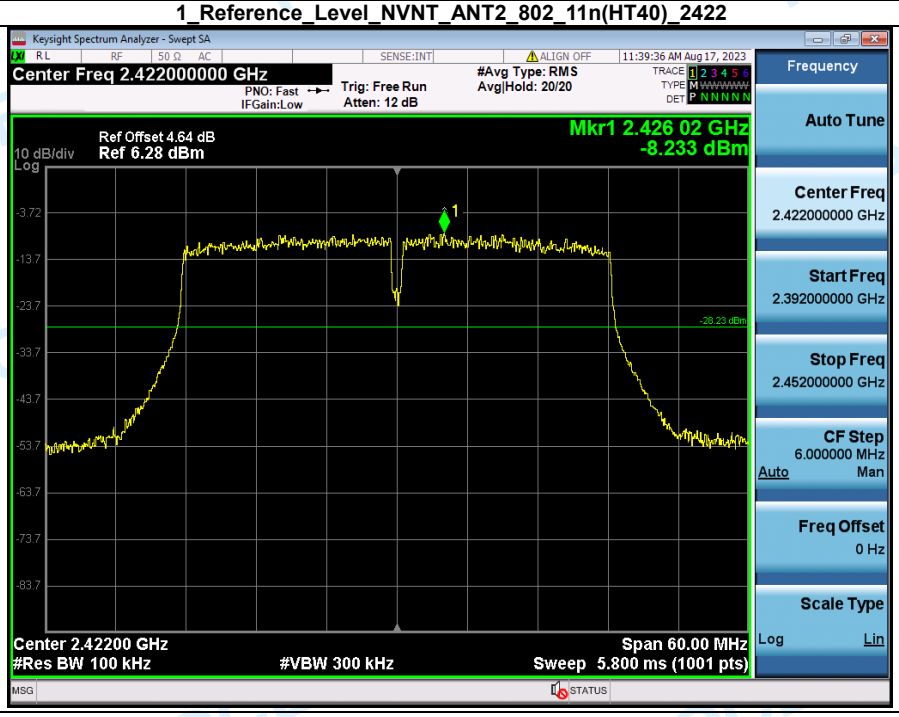
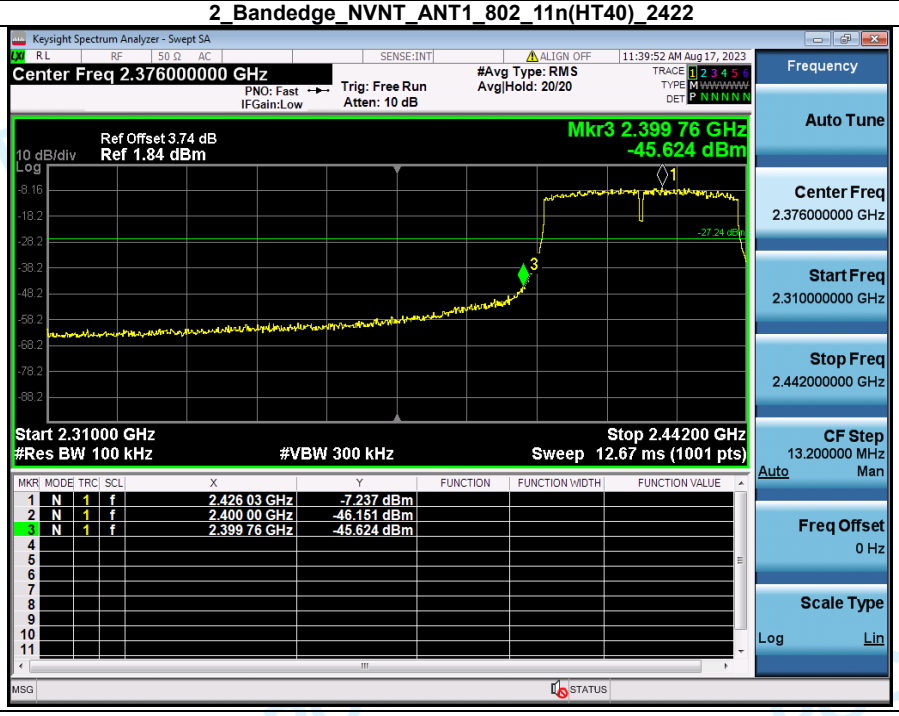
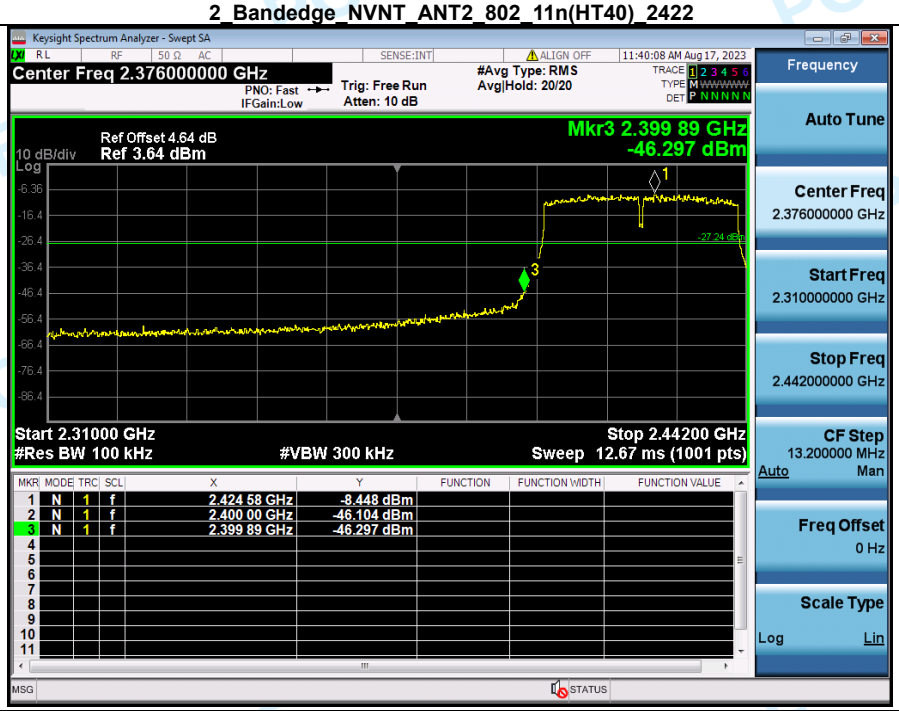


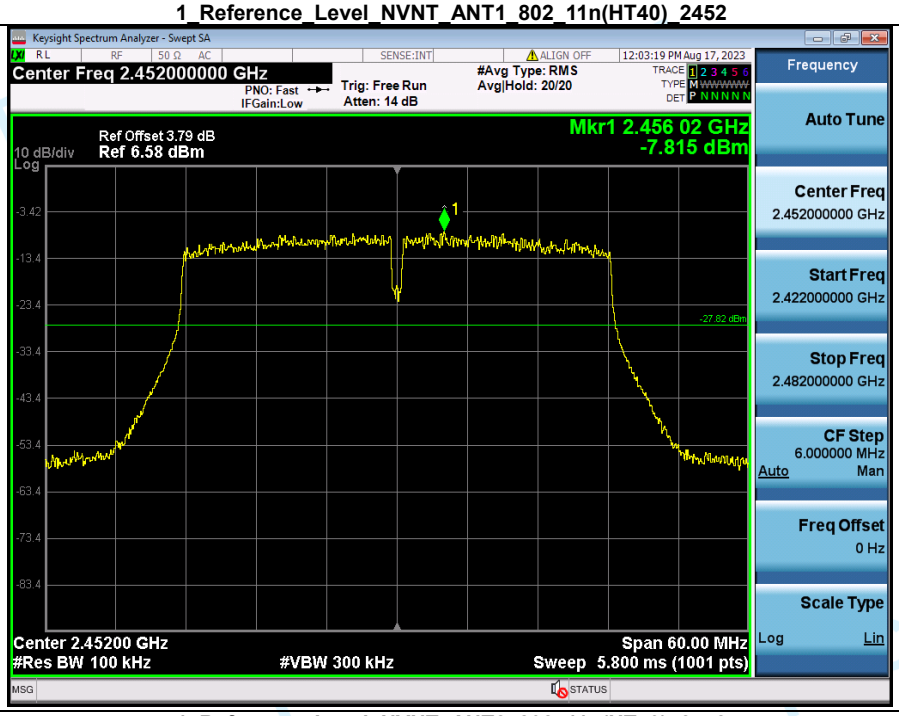
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



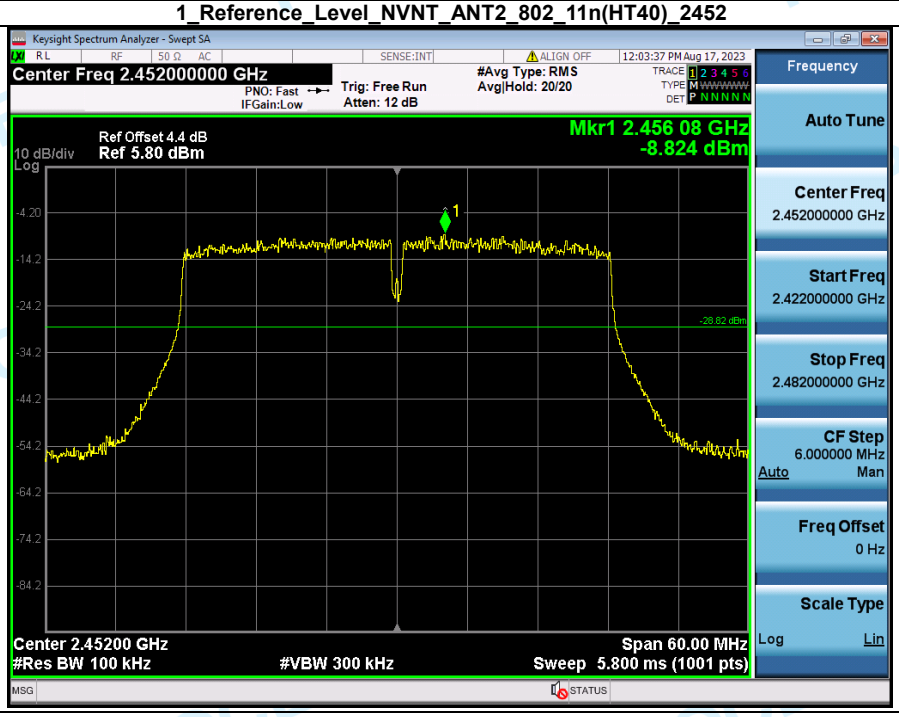
2_Bandedge_NVNT_ANT2_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452

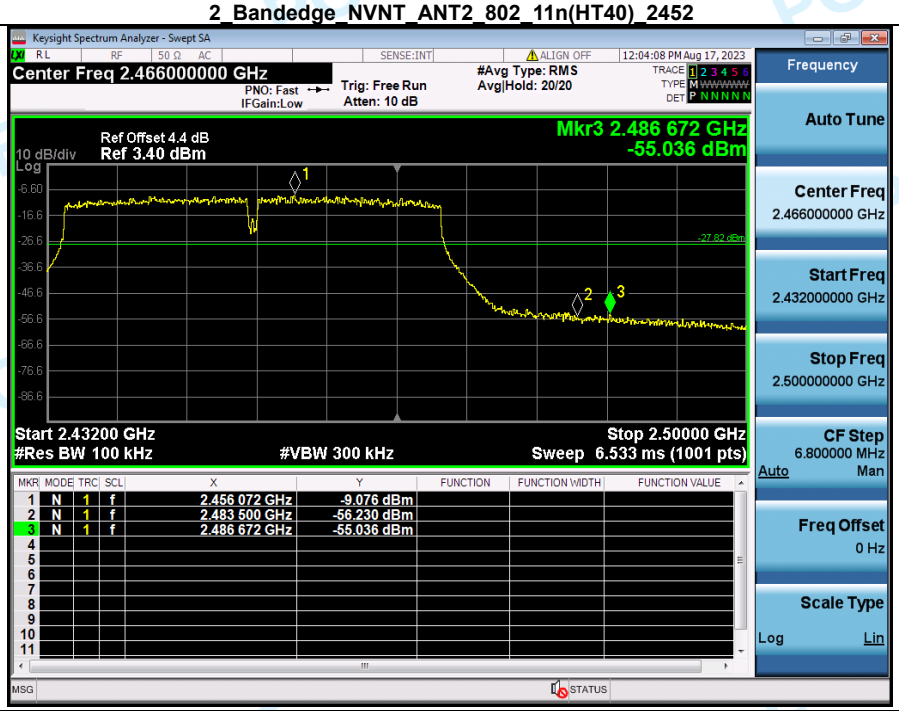


1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452

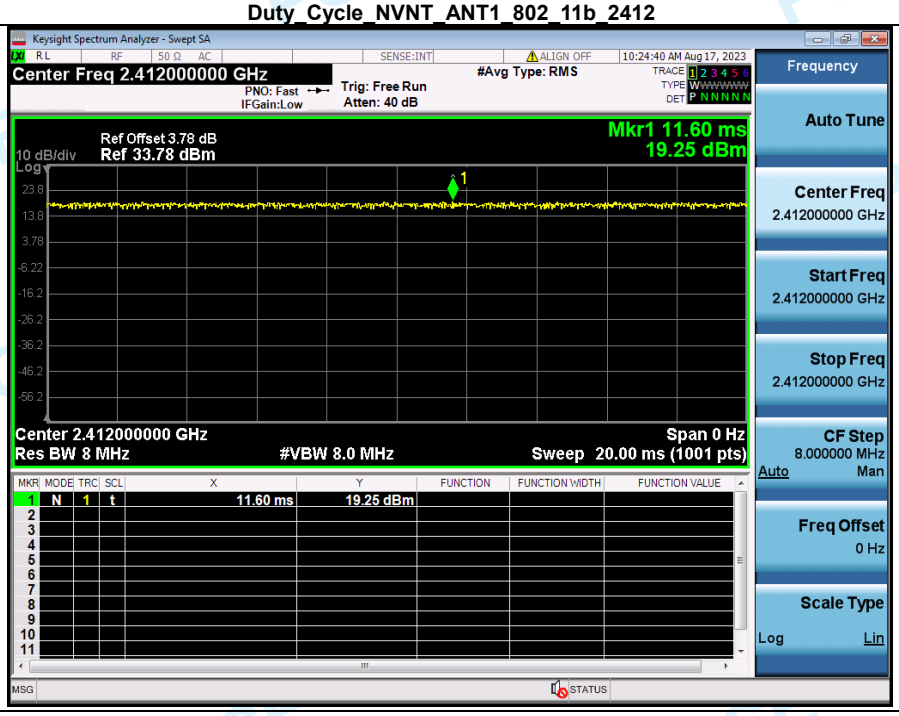
2_Bandedge_NVNT_ANT2_802_11n(HT40)_2452

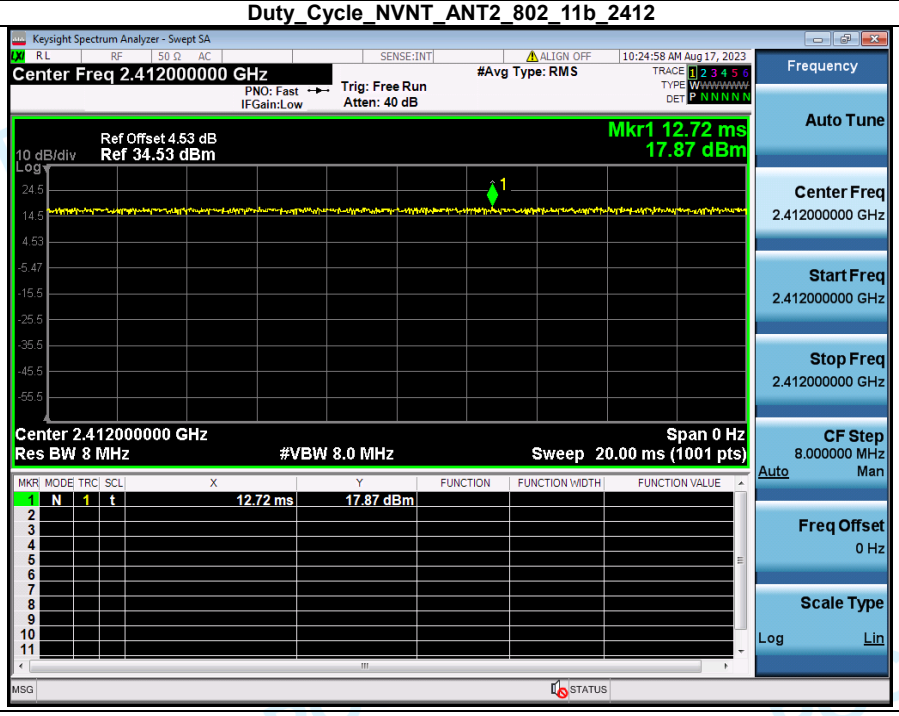


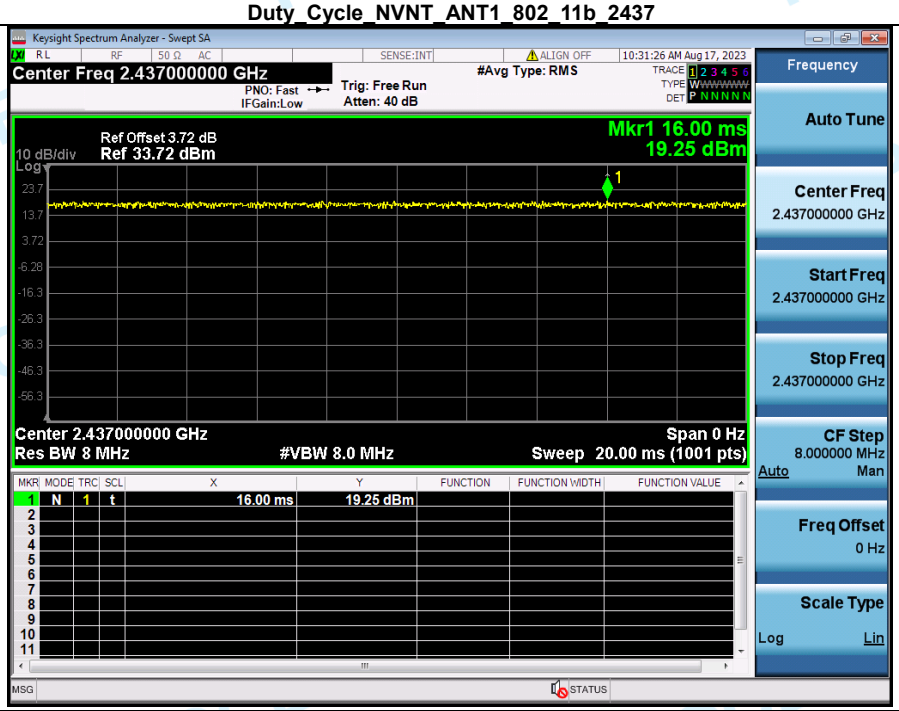
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT2	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT2	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT2	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT2	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT2	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT2	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT2	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT2	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00
NVNT	ANT2	802.11n(HT20)	2462.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT2	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT2	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00
NVNT	ANT2	802.11n(HT40)	2452.00	100	0.00

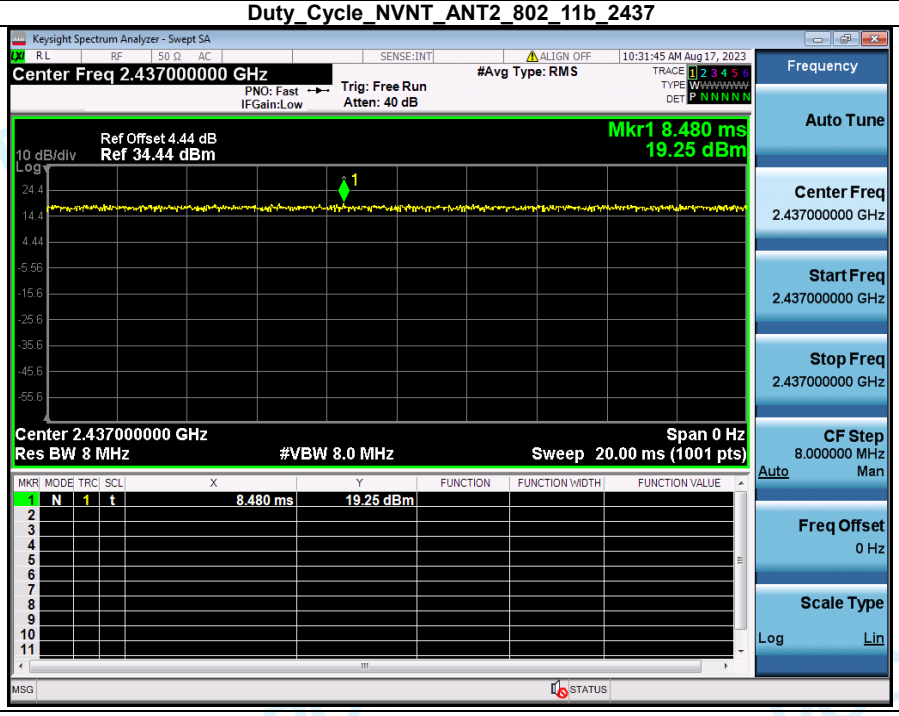
Duty_Cycle_NVNT_ANT1_802_11b_2412



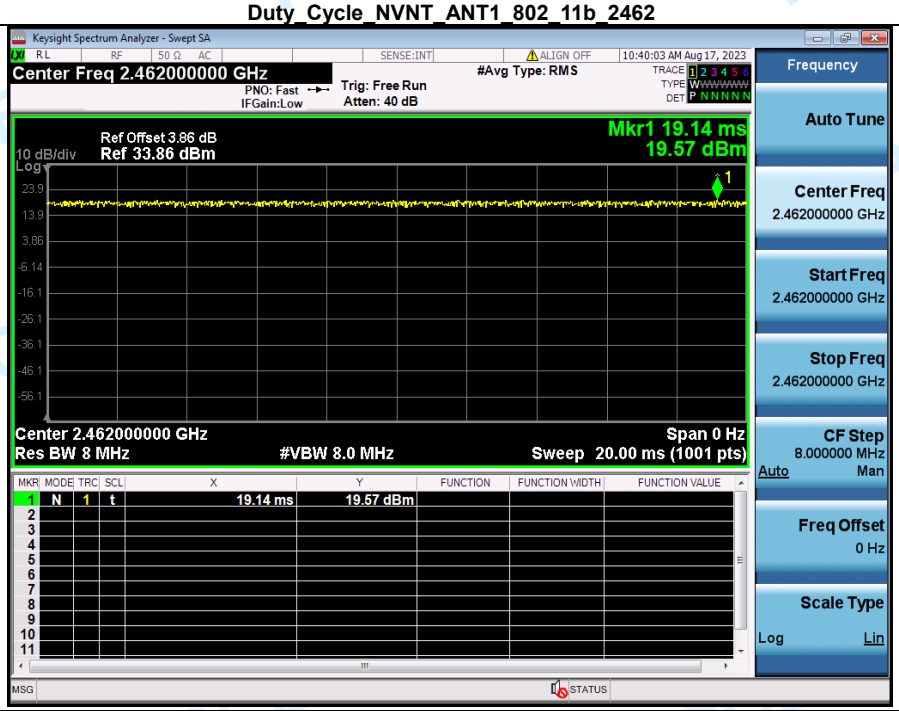
Duty_Cycle_NVNT_ANT2_802_11b_2412


Duty_Cycle_NVNT_ANT1_802_11b_2437


Duty_Cycle_NVNT_ANT2_802_11b_2437



Duty_Cycle_NVNT_ANT1_802_11b_2462



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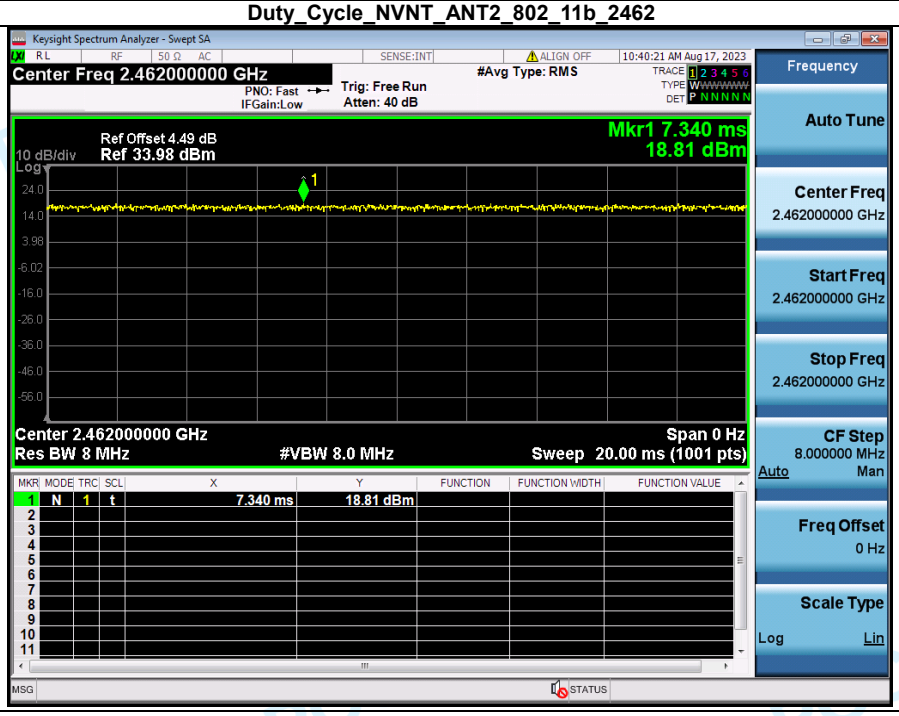

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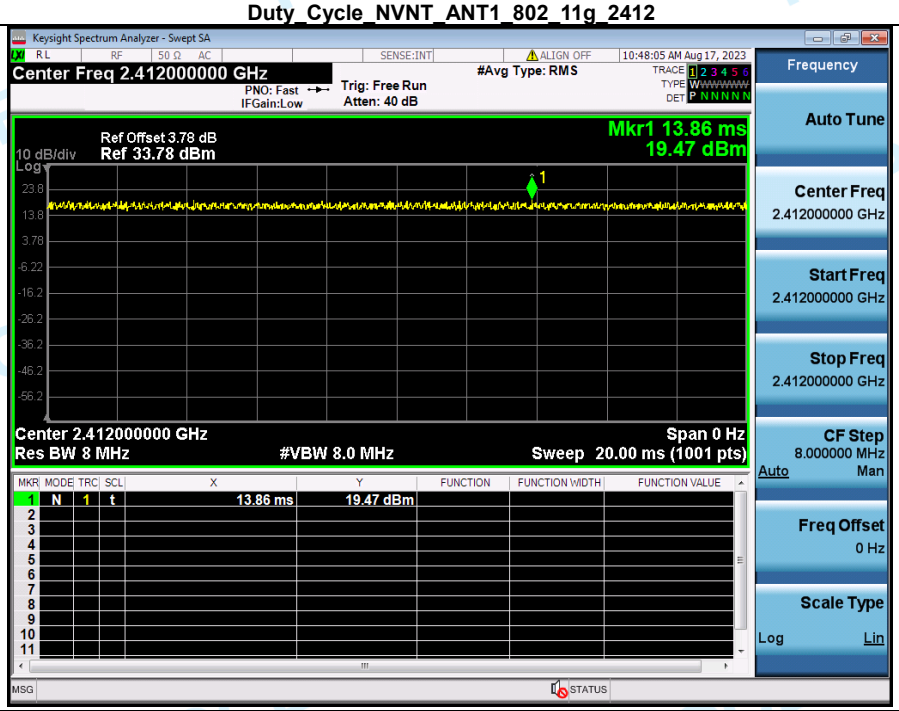

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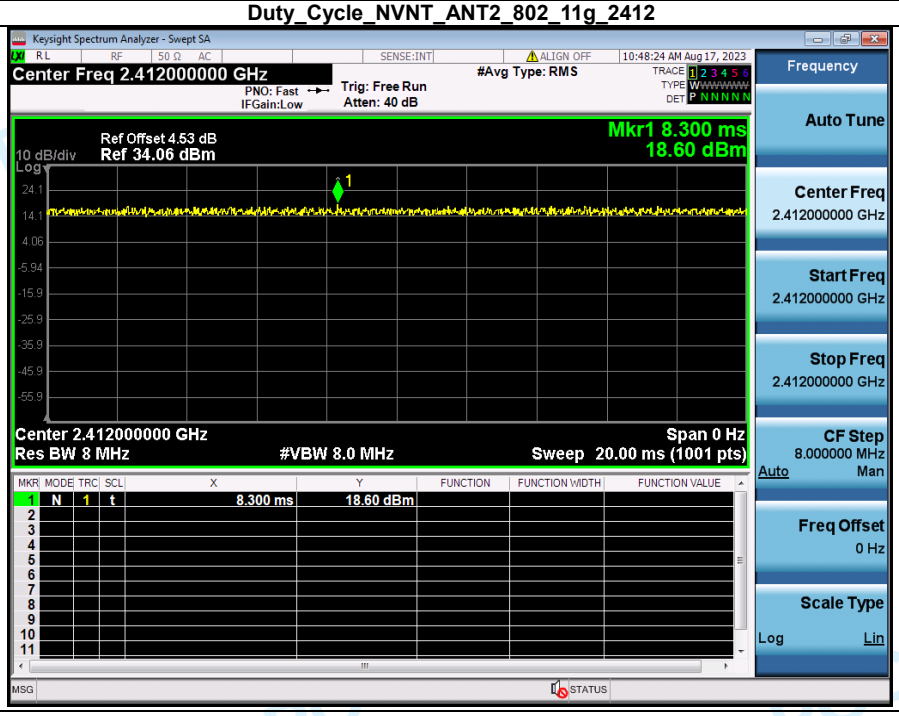

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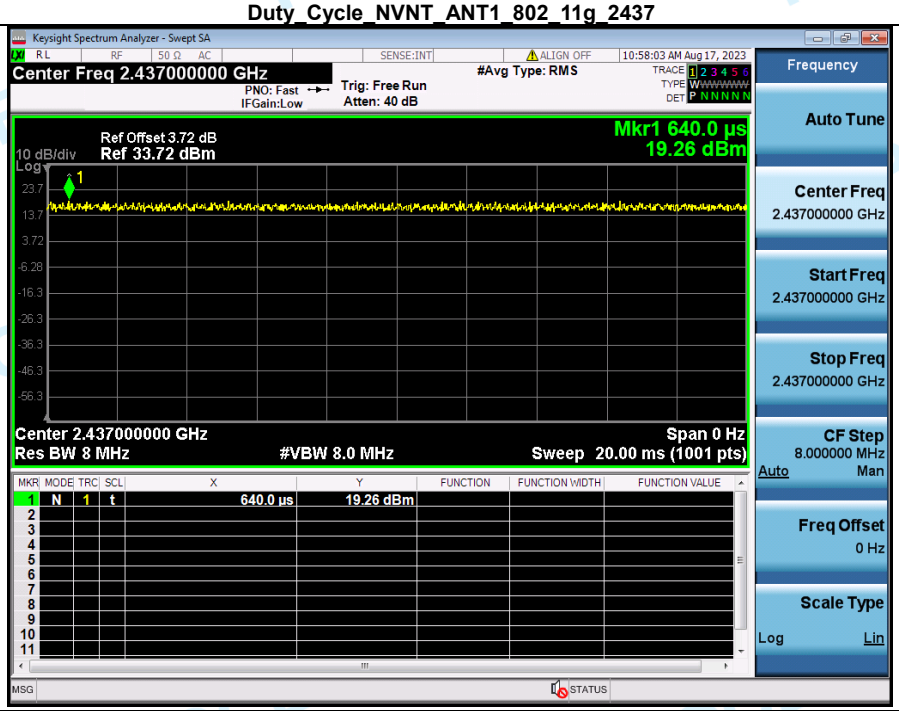

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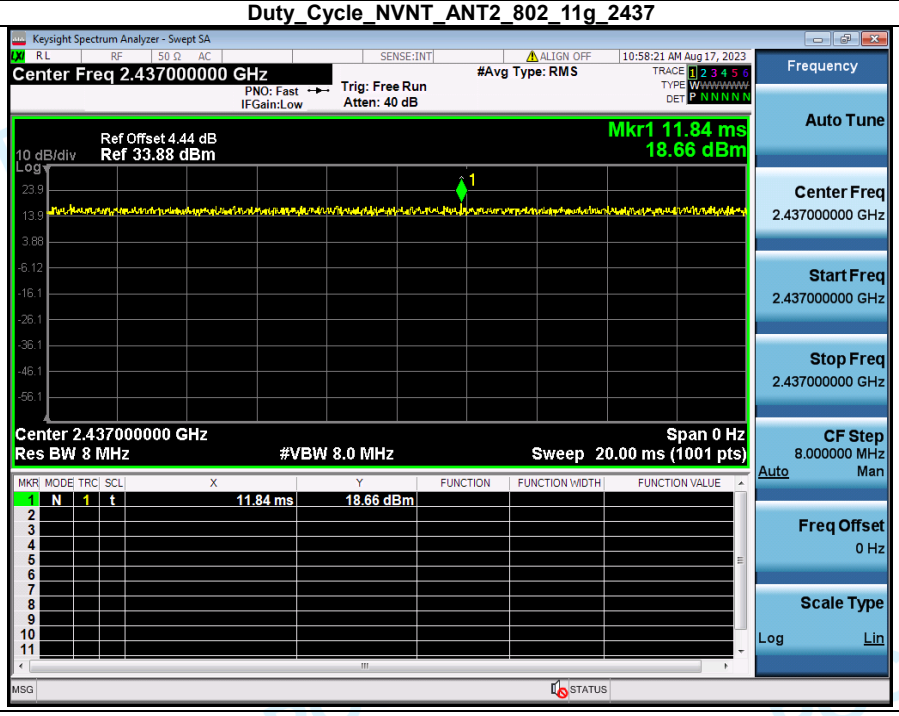

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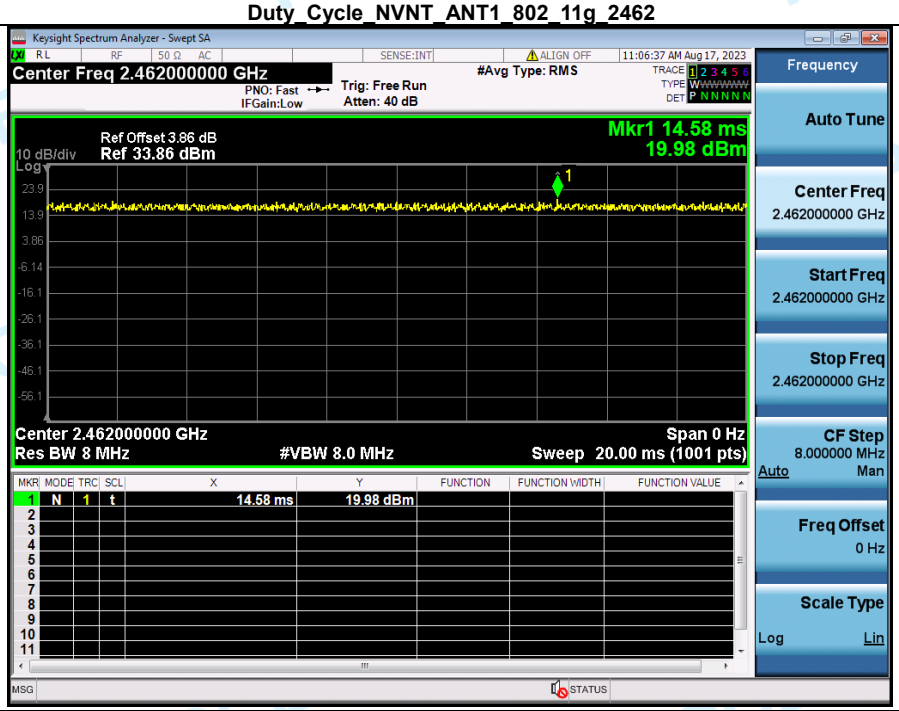

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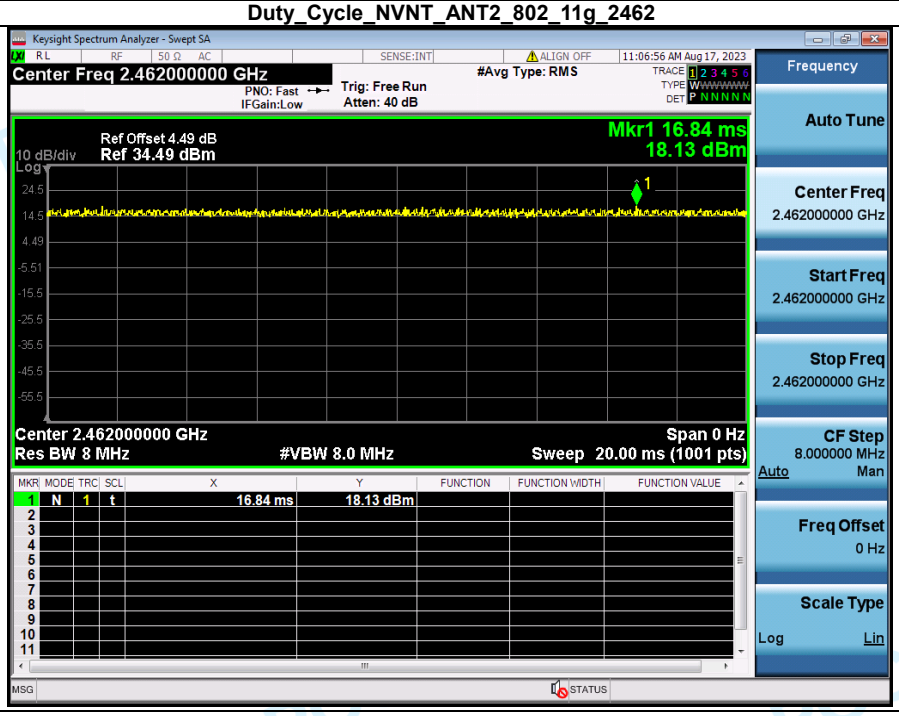
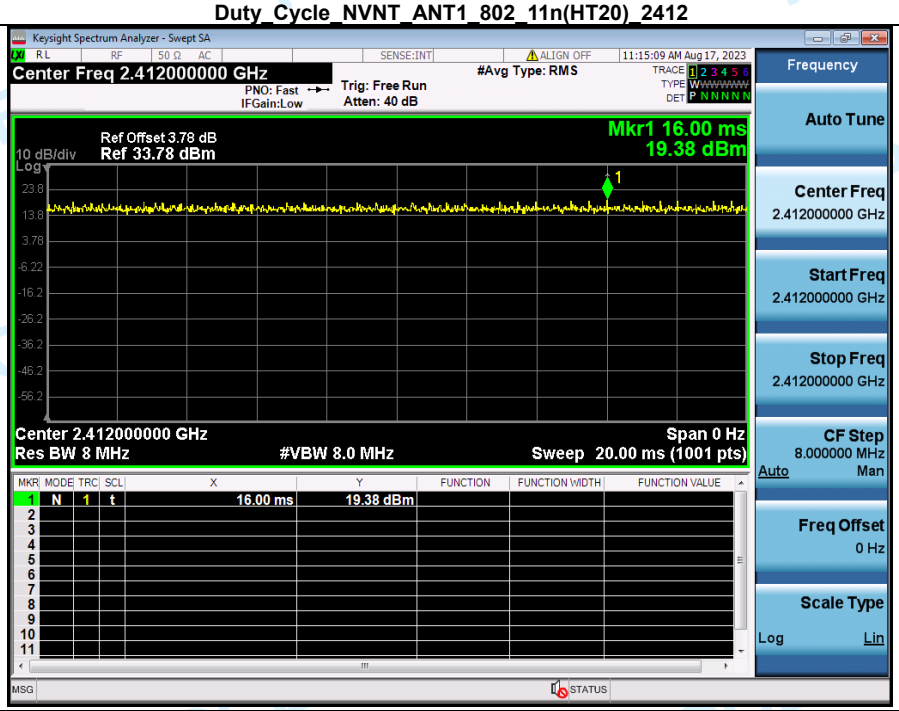
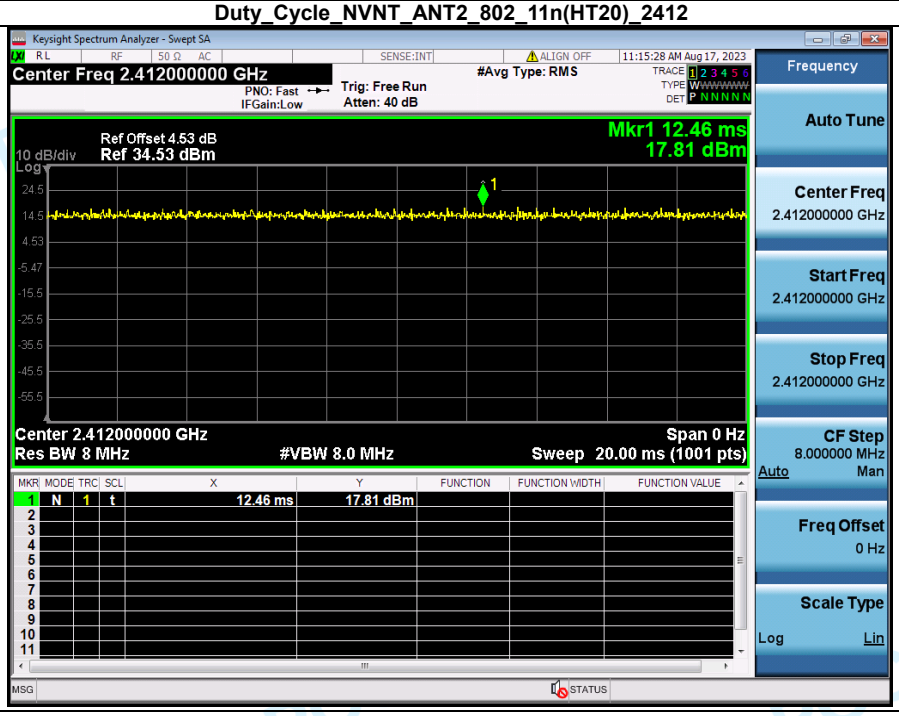


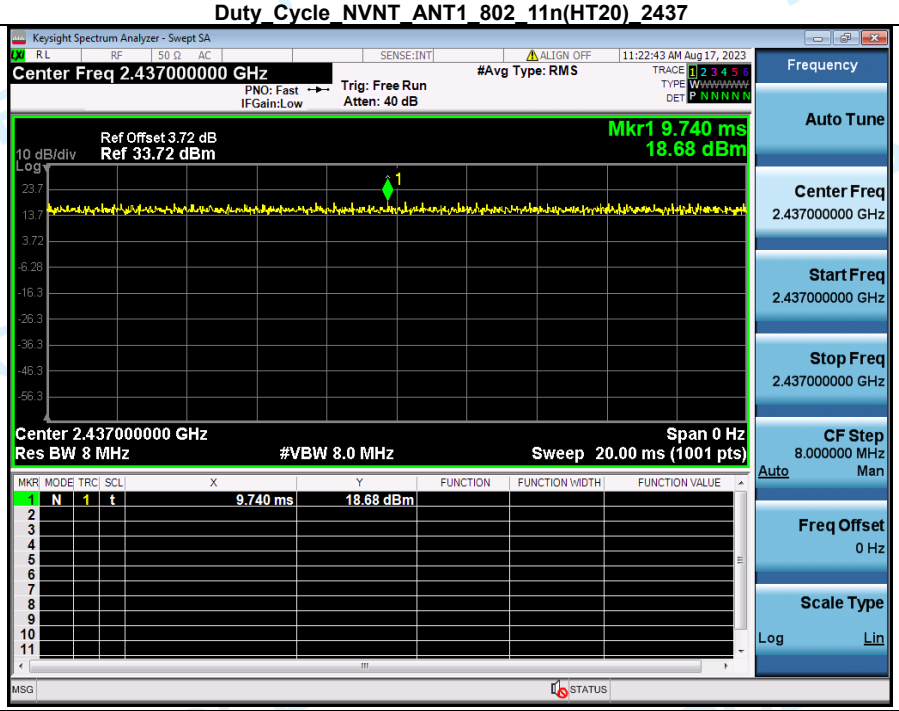
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT2_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



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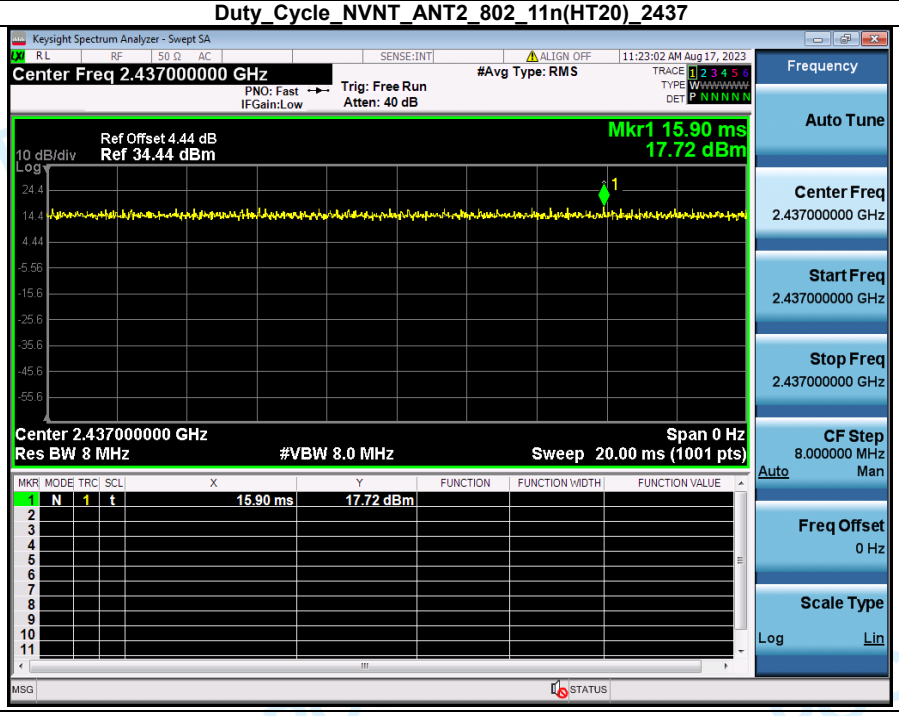
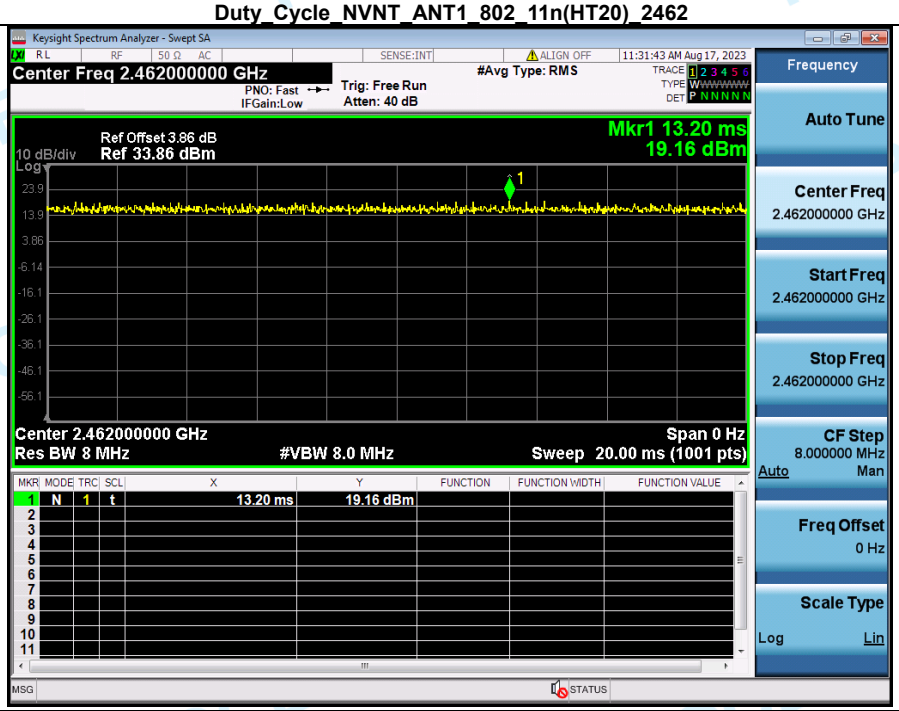
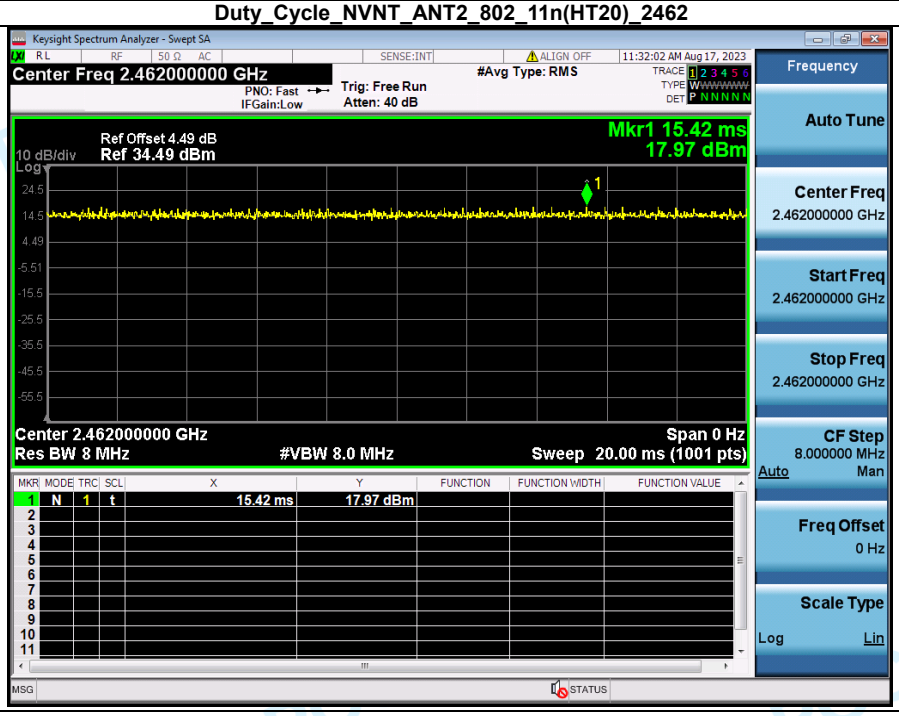
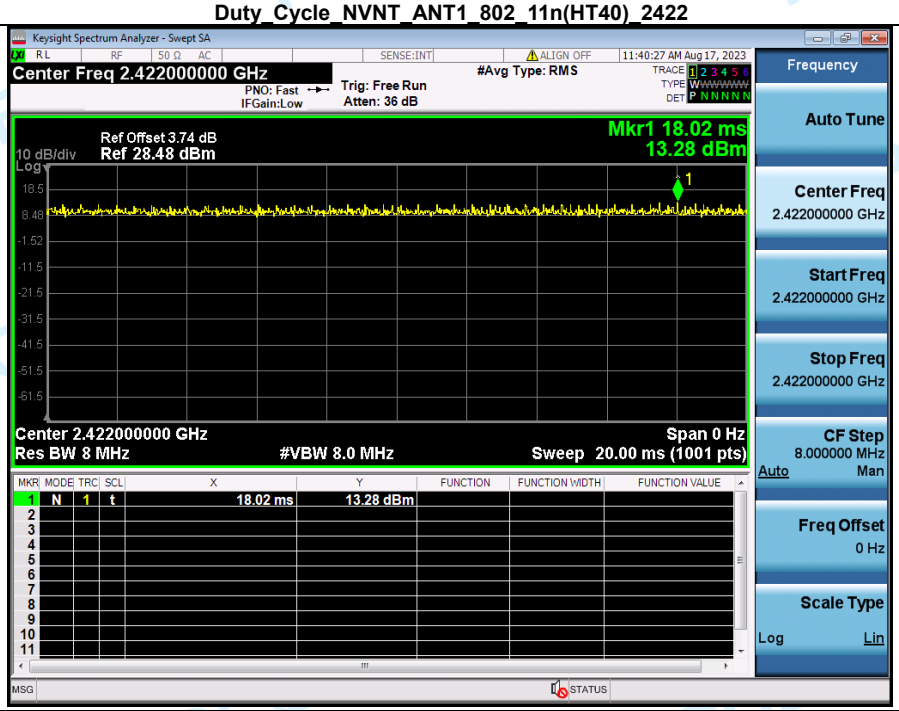


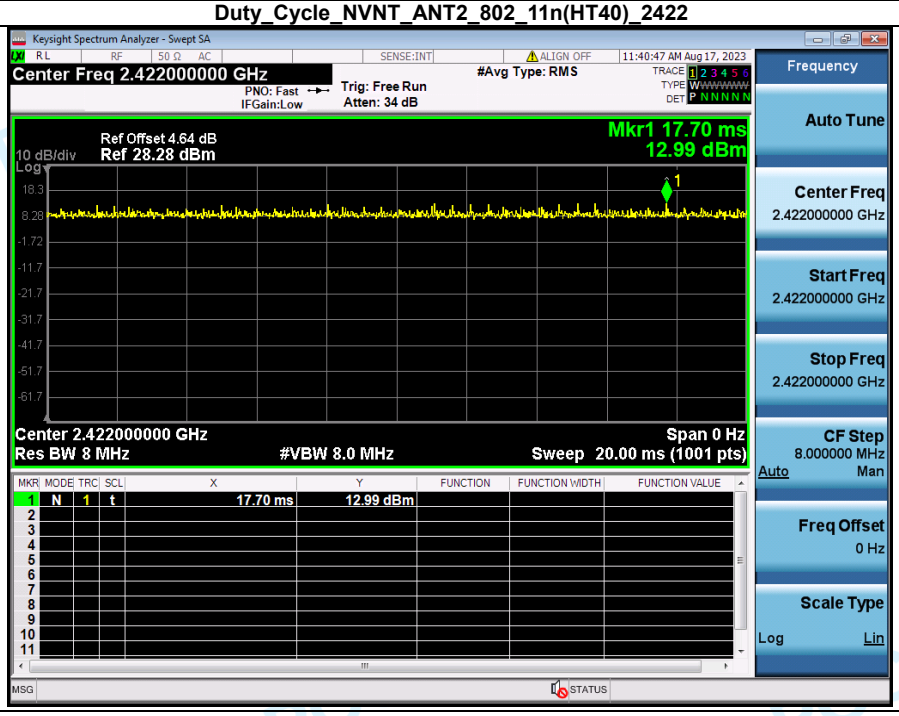
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



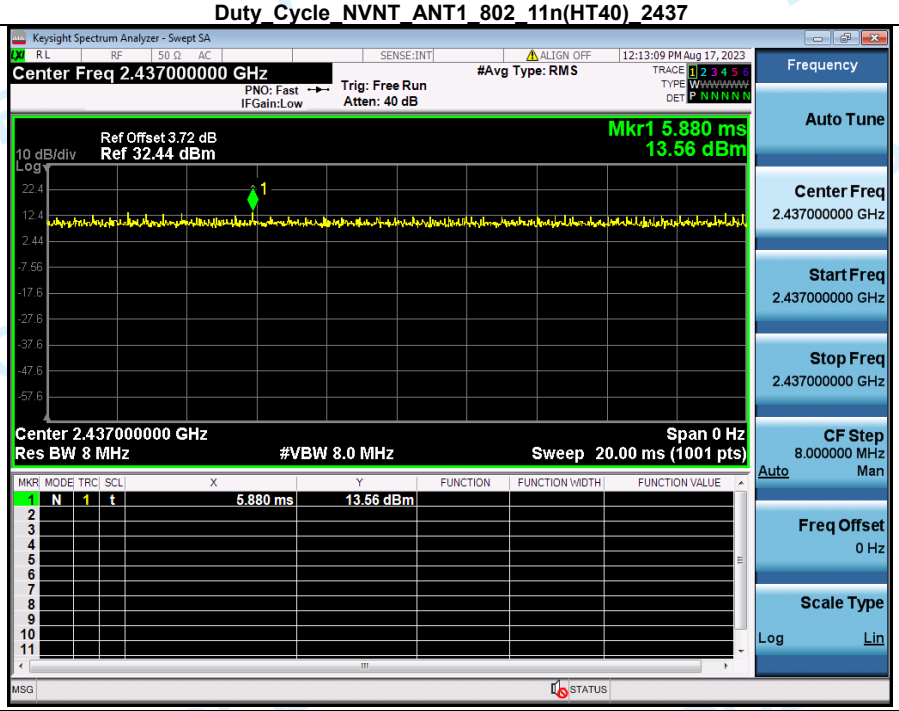
Duty_Cycle_NVNT_ANT2_802_11n(HT20)_2462


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422


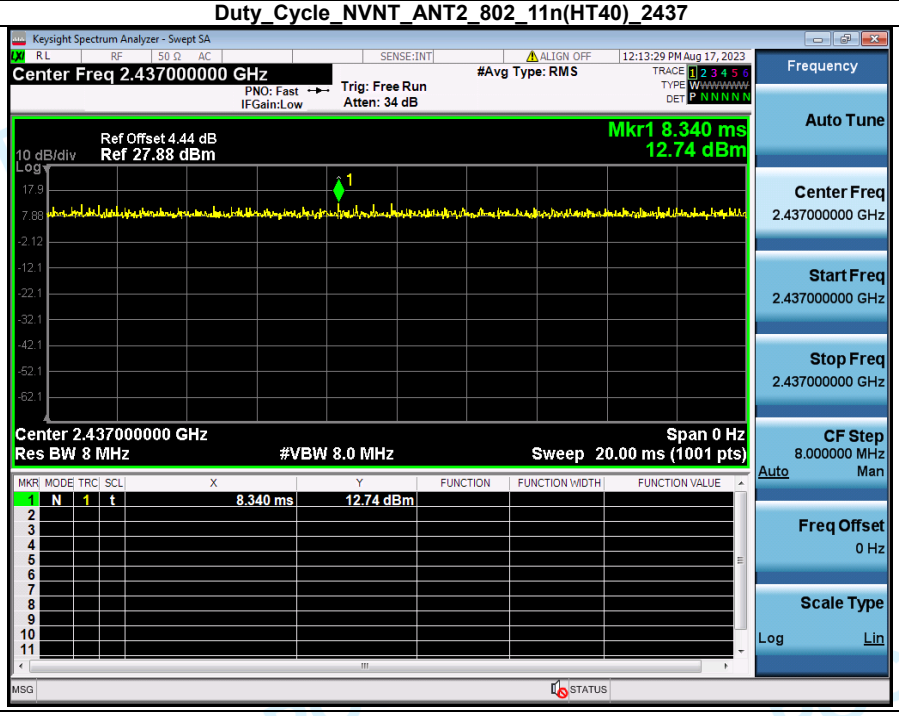
Duty_Cycle_NVNT_ANT2_802_11n(HT40)_2422



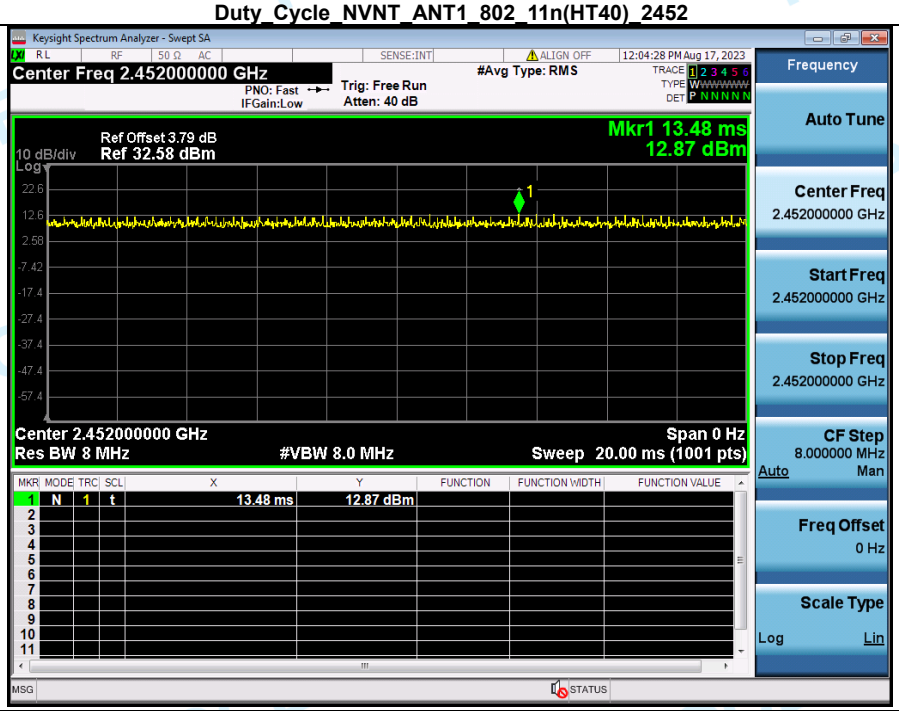
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT2_802_11n(HT40)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



Duty_Cycle_NVNT_ANT2_802_11n(HT40)_2452