

FCC TEST REPORT

Product Name: Smart Payment Terminal
Trade Mark: PAX
Model No.: A6630
Report Number: 24071812763RFC-3
Test Standards: FCC 47 CFR Part 15 Subpart C
FCC ID: V5PA6630
Test Result: PASS
Date of Issue: December 19, 2024

Prepared for:

PAX Technology Limited
Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai,
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Prepared by:

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UTTR-RF-FCCPART15.247-V1.1

Version

Version No.	Date	Description
V1.0	December 19, 2024	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	PAX Technology Limited
Address of Applicant:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address of Manufacturer:	Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smart Payment Terminal		
Model No.:	A6630		
Trade Mark:	PAX		
EUT Supports Function: (Provided by the customer)	UTRA Bands:	WCDMA Band II/ Band IV/ Band V	
	E-UTRA Bands:	FDD Band 2/ Band 4/ Band 5/ Band 12/ Band 13/ Band 17	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth 5.0	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac
RNSS Band:	1559 MHz to 1610 MHz		
NFC:	13.553 MHz to 13.567 MHz		
Sample Received Date:	July 11, 2024		
Sample Tested Date:	August 11, 2024 to October 21, 2024		
Remark:	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.		

1.2.2 Description of Accessories

Adapter	
Model No.:	GLH-PD18W-U
Input:	100-240 V~50/60 Hz 0.5 A
Output:	5.0 V $\equiv$ 3.0A/ 9.0 V $\equiv$ 2.0A / 12.0 V $\equiv$ 1.5A

Cable	
Connector:	USB Cable
Cable Type:	Unshielded without ferrite
Length:	1.0 Meter

Battery	
Model No.:	M0152A
Battery Type:	Rechargeable Li-ion Battery
Rated Voltage:	3.85 Vdc
Rated Capacity:	6000 mAh

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1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS 7 IEEE 802.11n-HT40: Up to MCS 7
Number of Channels:	IEEE 802.11b:11 IEEE 802.11g:11 IEEE 802.11n-HT20:11 IEEE 802.11n-HT40:7
Channel Separation:	5 MHz
Antenna Type: (Provided by the customer)	PIFA Antenna
Antenna Gain: (Provided by the customer)	1.22 dBi
Maximum Peak Power:	IEEE 802.11b: 19.85 dBm IEEE 802.11g: 23.31 dBm IEEE 802.11n-HT20: 23.34 dBm IEEE 802.11n-HT40: 23.45 dBm
Normal Test Voltage:	3.85 Vdc

1.4 OTHER INFORMATION

Operation Frequency Each of Channel	
IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20	$f = 2407 + 5k \text{ MHz}, k = 1, \dots, 11$
IEEE 802.11n-HT40	$f = 2407 + 5k \text{ MHz}, k = 3, \dots, 9$
Note: f is the operating frequency (MHz); k is the operating channel.	

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
--	--	--	--	--

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.1 Meter	Applicant

1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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1.7 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	±3.2 dB
2	Conducted emission 150kHz-30MHz	±2.7 dB
3	Radiated emission 9kHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.9 dB
5	Radiated emission 1GHz-18GHz	± 4.8 dB
6	Radiated emission 18GHz-26GHz	± 5.1 dB
7	Radiated emission 26GHz-40GHz	± 5.1 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.68 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	2.4 GHz: ± 6.5 x 10 ⁻⁸
12	Transmission Time	± 0.19 %

2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart C Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (b)	N/A	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013 Clause 6.2	PASS
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013 Clause 11.9.1.3	PASS
6dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013 Clause 11.8.1	PASS
Power Spectral Density	FCC 47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013 Clause 11.10.2	PASS
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013 Clause 11.11	PASS
Radiated Spurious Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013 Clause 11.11 & Clause 11.12	PASS
Band Edge Measurements (Radiated)	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013 Clause 11.13	PASS
Disclaimer and Explanations: The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.			

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	27-Oct-2023	26-Oct-2024
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	29-Mar-2024	28-Mar-2025
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	30-Oct-2023	29-Oct-2024
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	30-Oct-2023	29-Oct-2024
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	30-Oct-2023	29-Oct-2024
☒	Preamplifier	HP	8447F	2805A02960	31-Oct-2023	30-Oct-2024
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	16-Apr-2023	15-Apr-2025
☒	Pre-amplifier	ETS-LINDGREN	00118385	00201874	31-Oct-2023	30-Oct-2024
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	31-Oct-2023	30-Oct-2024
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	30-Oct-2023	29-Oct-2024
☒	Band Reject Filter (2400MHz~2500MHz)	Micro-Tronics	BRM50702	G248	30-Oct-2023	29-Oct-2024
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	Receiver	R&S	ESR7	101181	27-Oct-2023	26-Oct-2024
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	27-Oct-2023	26-Oct-2024
☒	LISN	R&S	ESH2-Z5	860014/024	27-Oct-2023	26-Oct-2024
☐	LISN	ETS-Lindgren	3816/2SH	00201088	27-Oct-2023	26-Oct-2024
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

RF Conducted Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	29-Mar-2024	28-Mar-2025
☐	EXA Spectrum Analyzer	KEYSIGHT	N9020A	MY51286807	27-Oct-2023	26-Oct-2024
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	27-Oct-2023	26-Oct-2024

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage	Relative Humidity (%)
NT/NV	+15 to +35	3.85 Vdc	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
AC Power Line Conducted Emission	23.5	50.5	100.1	S202407113893-ZJA01/5	Linson Xie
Conducted Peak Output Power	22.0	46.5	100.0	S202407113893-ZJA04/5	Allen Zhou
6dB Bandwidth					
Power Spectral Density					
Conducted Out of Band Emission					
Radiated Spurious Emissions	25.2	65.9	99.8	S202407113893-ZJA03/5	Jackson Wu
Band Edge Measurements (Radiated)					

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H11)
IEEE 802.11b	2412 MHz to 2472 MHz	Channel 1	Channel 7	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g	2412 MHz to 2472 MHz	Channel 1	Channel 7	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n-HT20	2412 MHz to 2472 MHz	Channel 1	Channel 7	Channel 11
		2412 MHz	2437 MHz	2462 MHz
Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H9)
IEEE 802.11n-HT40	2422 MHz to 2462 MHz	Channel 3	Channel 7	Channel 9
		2422 MHz	2437 MHz	2452 MHz

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11b IEEE 802.11g IEEE 802.11n-HT20 IEEE 802.11n-HT40	1Tx/1Rx	1. Keep the EUT in continuously transmitting or receiving with modulation test single.

Power Setting (Provided by the customer)			
Mode	Channel 1	Channel 6	Channel 11
IEEE 802.11b	20	20	20
IEEE 802.11g	18	18	18
IEEE 802.11n-HT20	17	17	17
Mode	Channel 3	Channel 6	Channel 9
IEEE 802.11n-HT40	17	17	17

Test Software (Provided by the customer)
Engineering mode: META

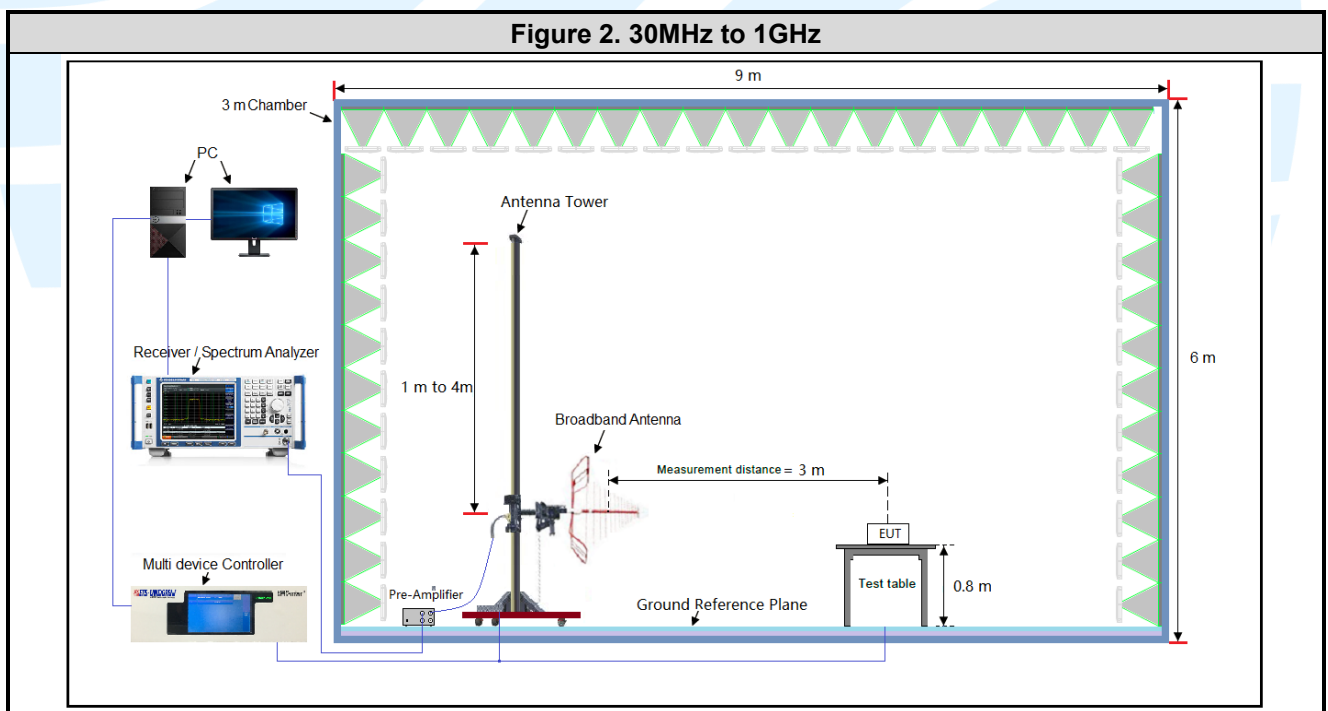
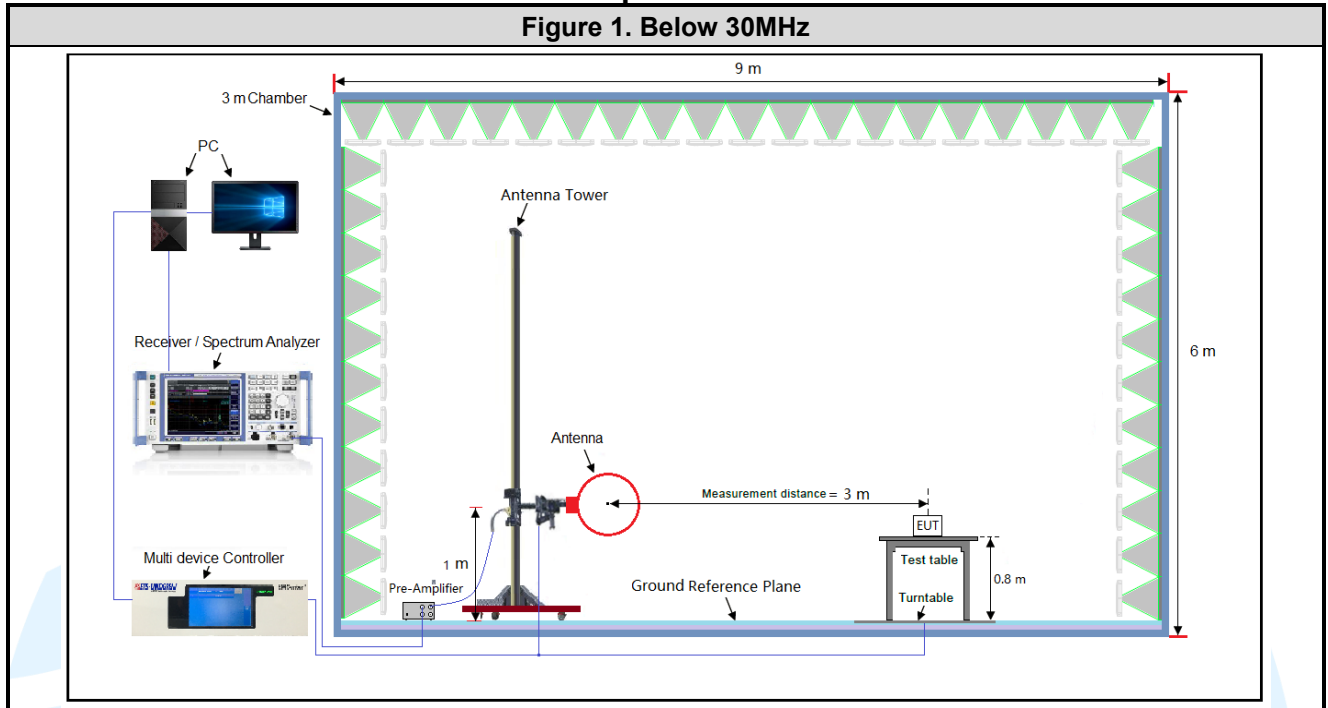
4.4 PRE-SCAN

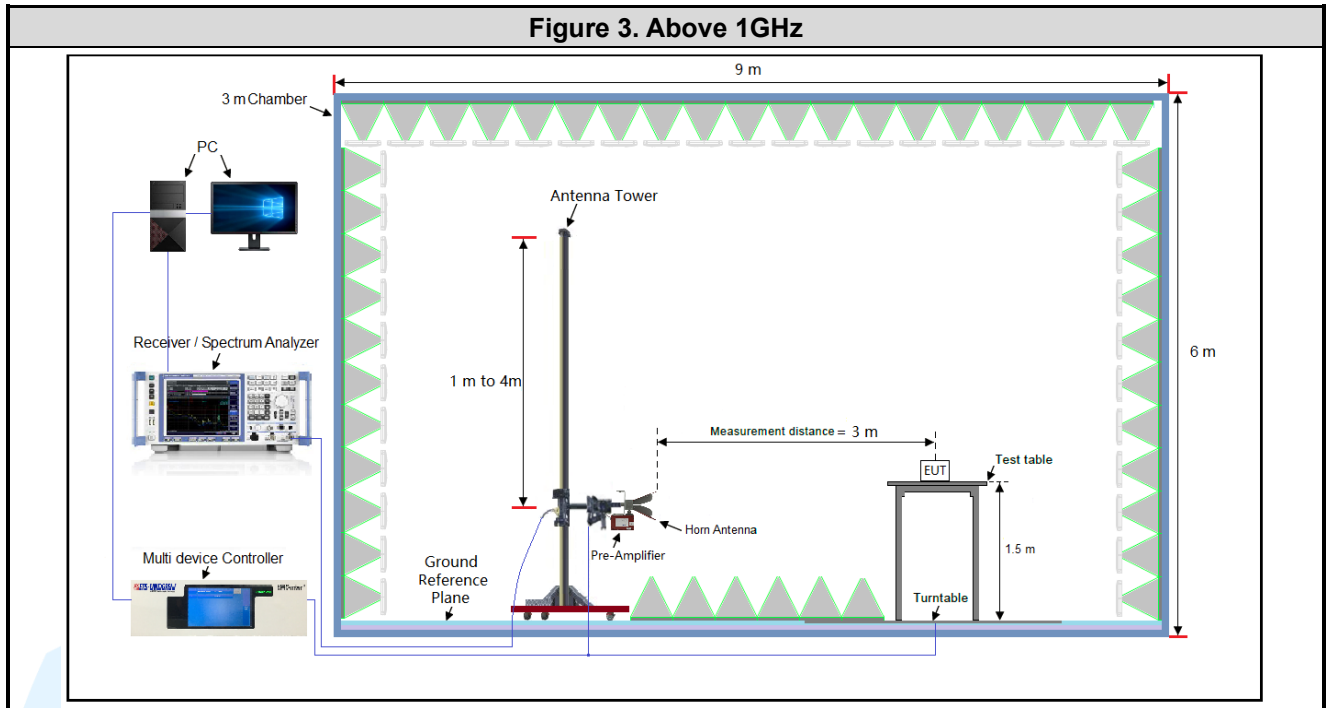
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Following data rate was (were) selected for the final test as listed below

Mode	Worst-case data rates
IEEE 802.11b	1 Mbps
IEEE 802.11g	6 Mbps
IEEE 802.11n-HT20	MCS0
IEEE 802.11n-HT40	MCS0

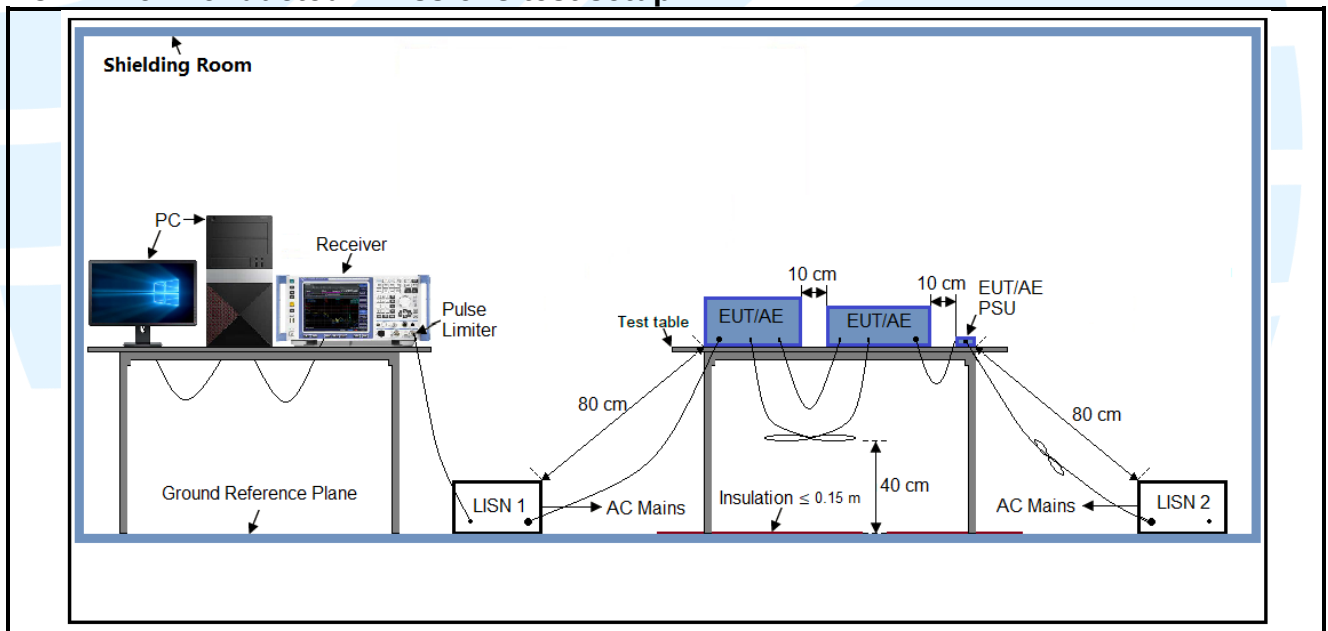
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

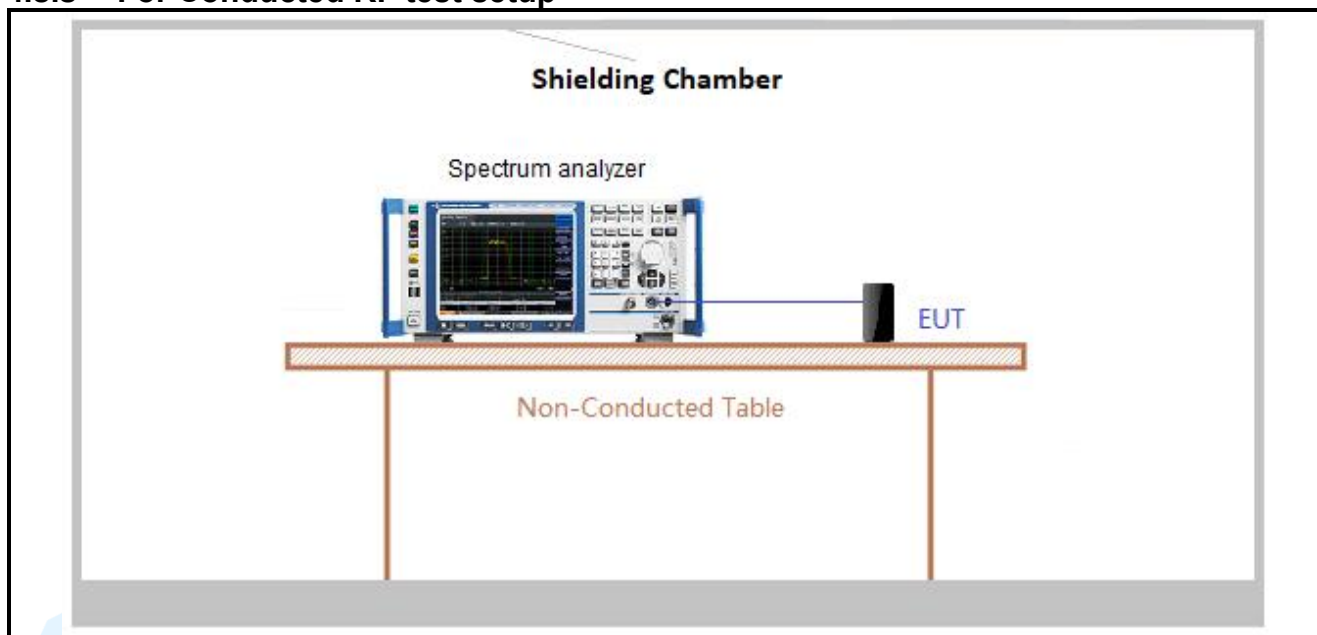




4.5.2 For Conducted Emissions test setup



4.5.3 For Conducted RF test setup



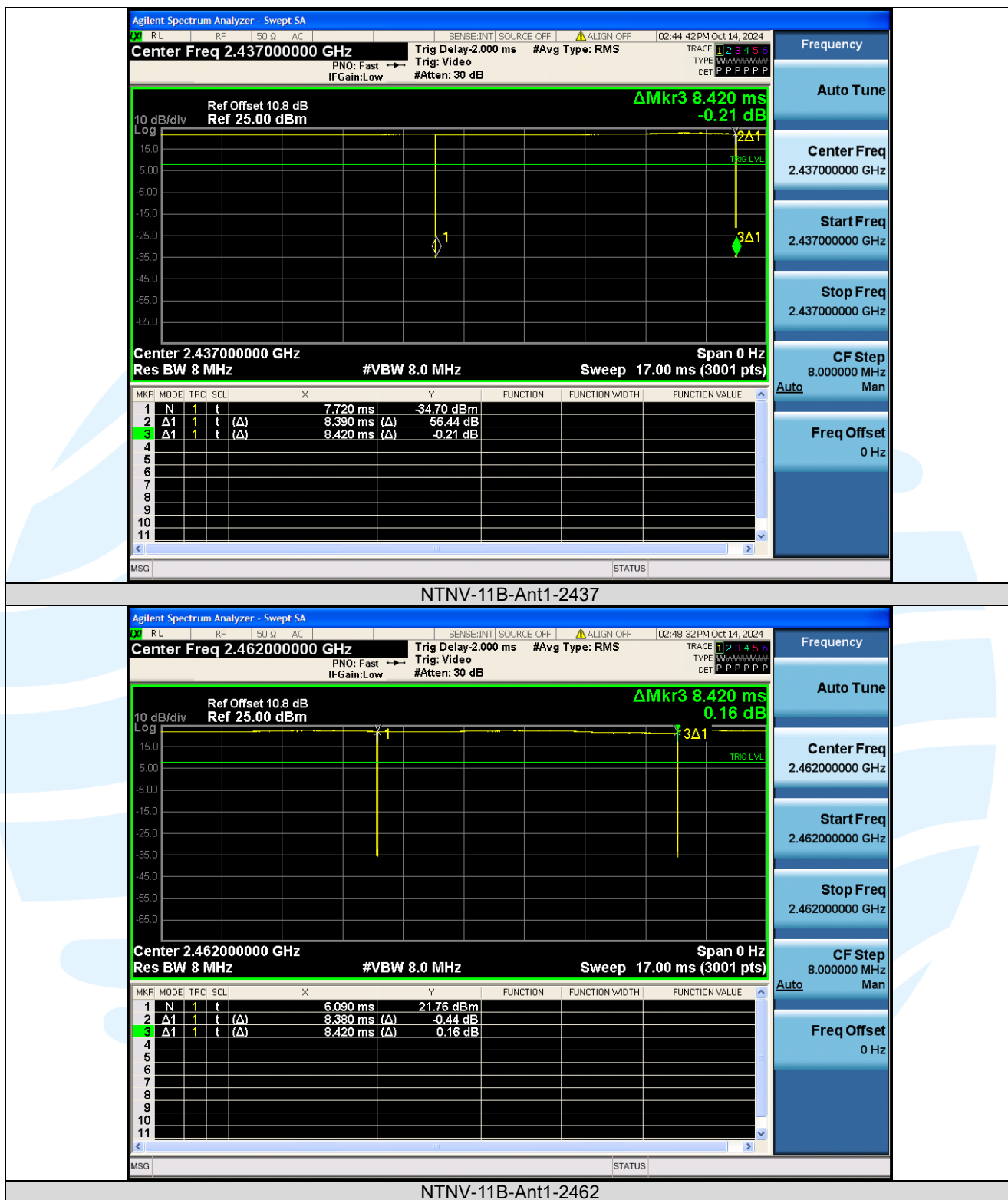
4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.85V battery. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in orientation.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

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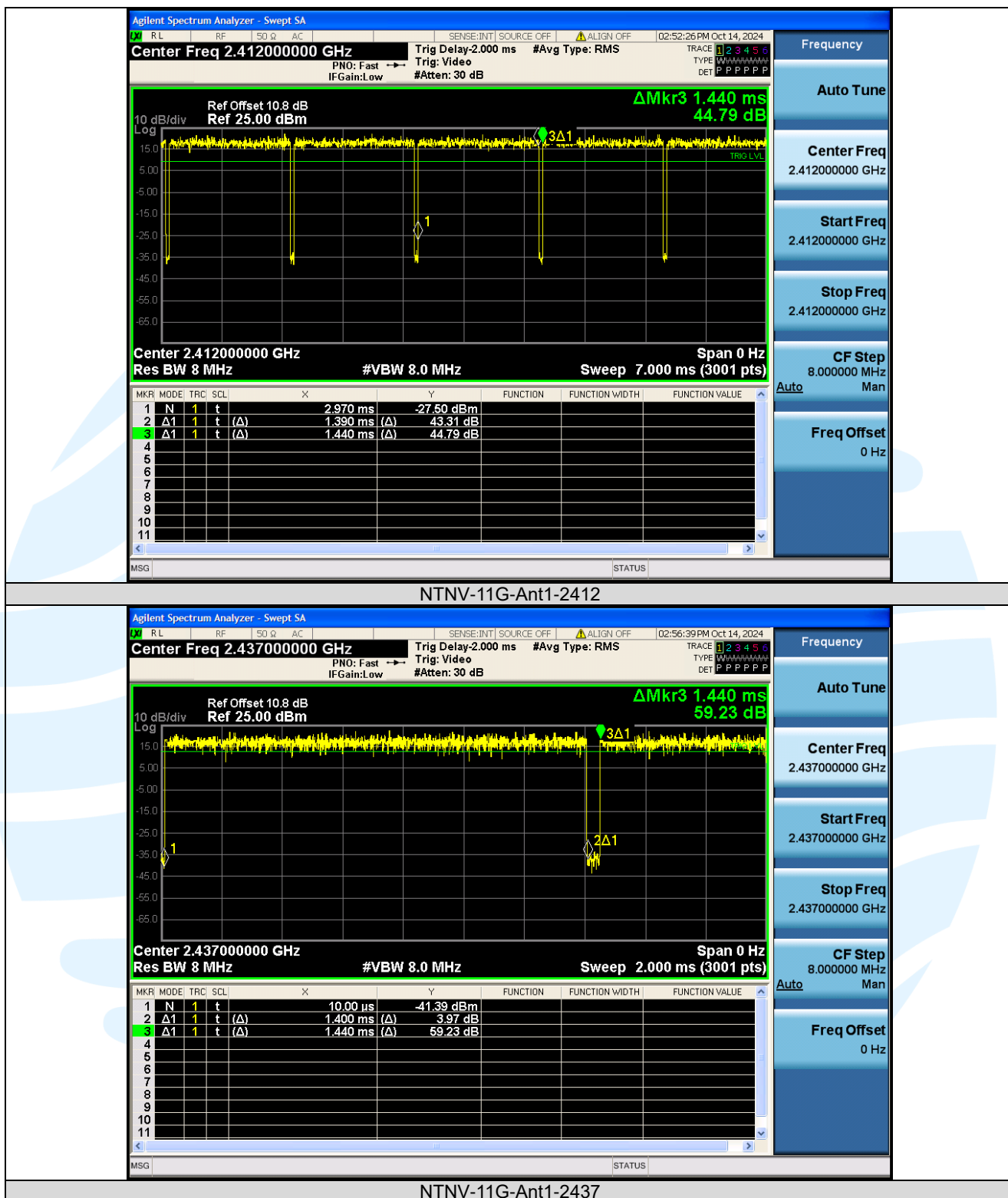
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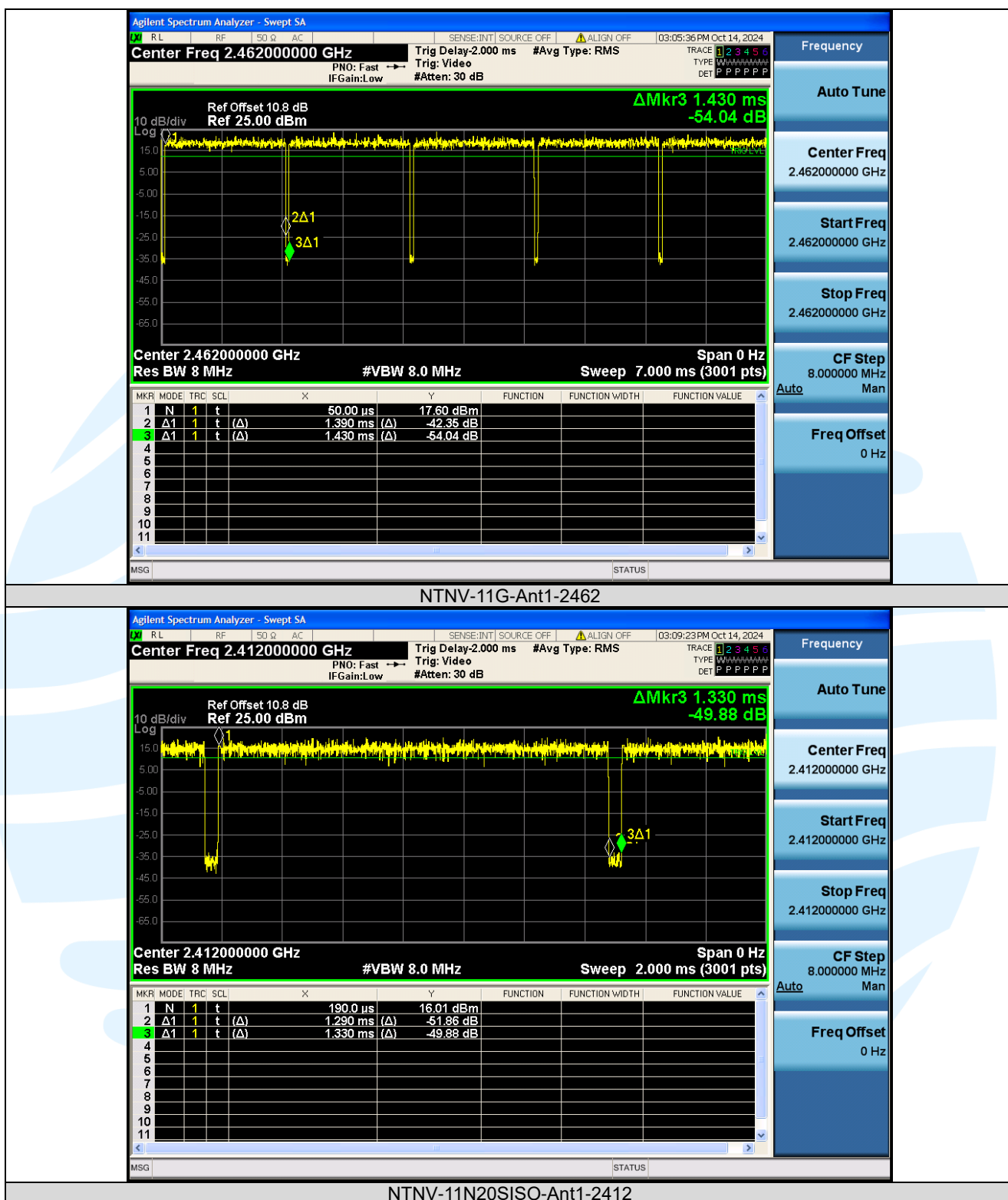
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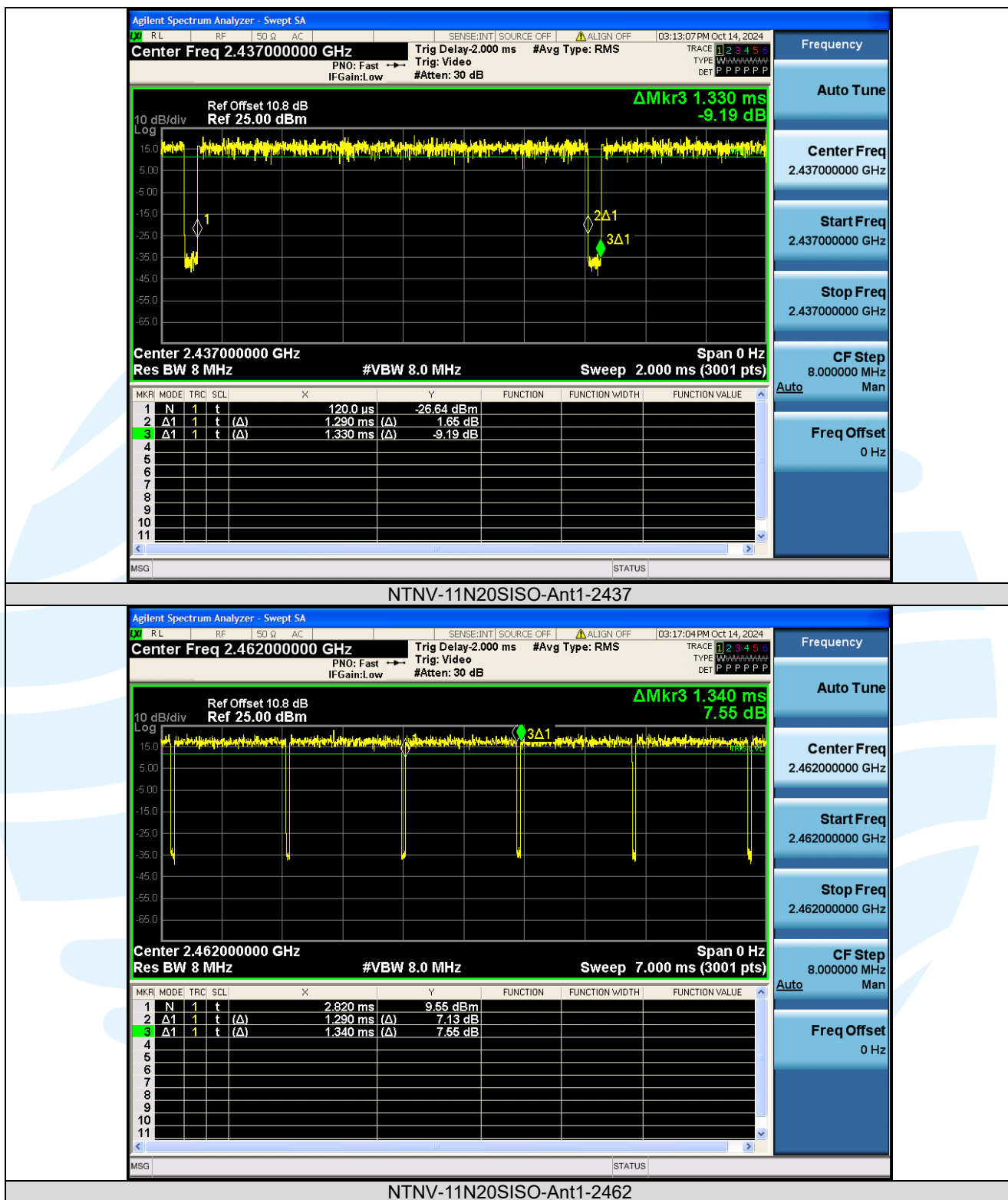
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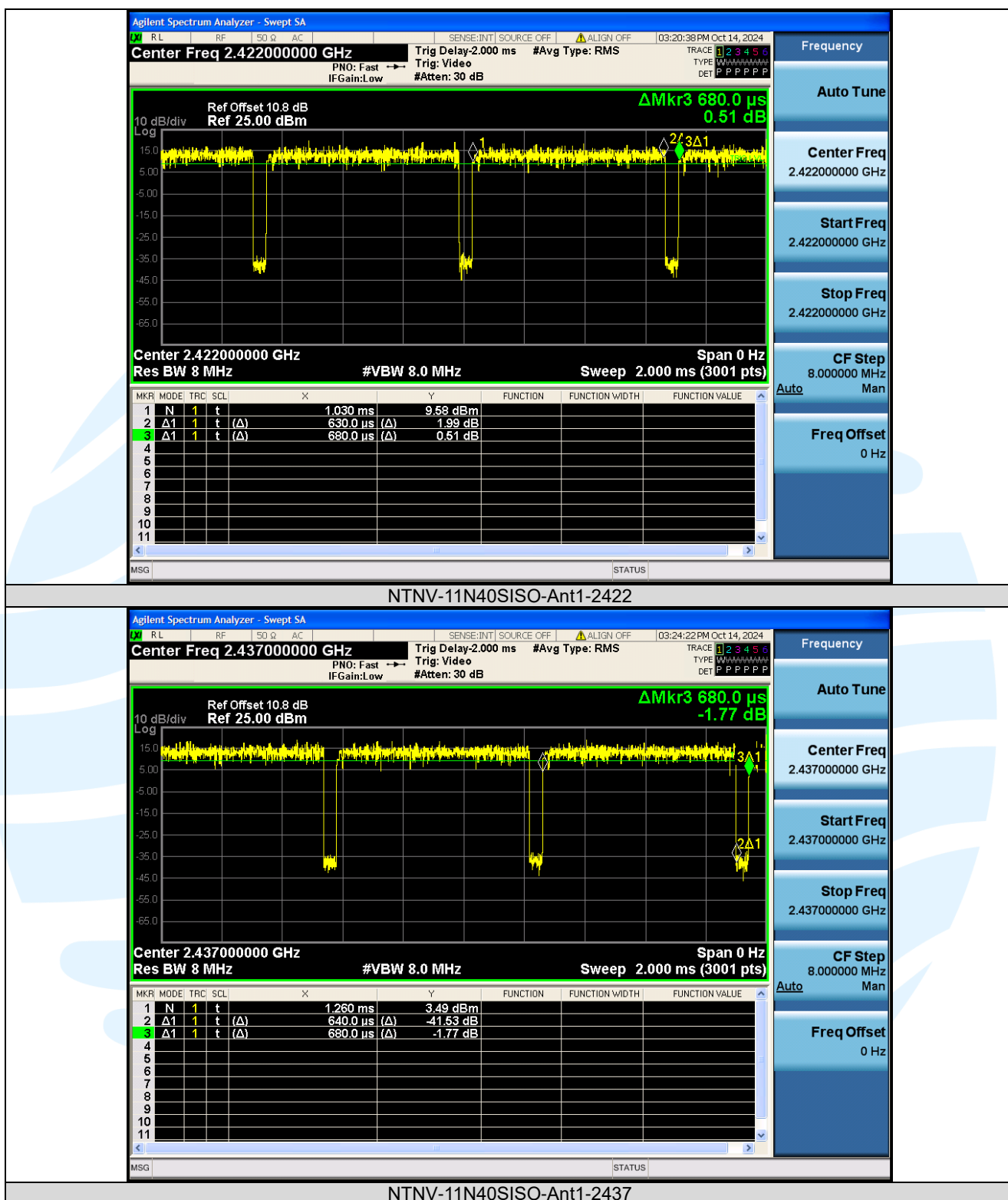
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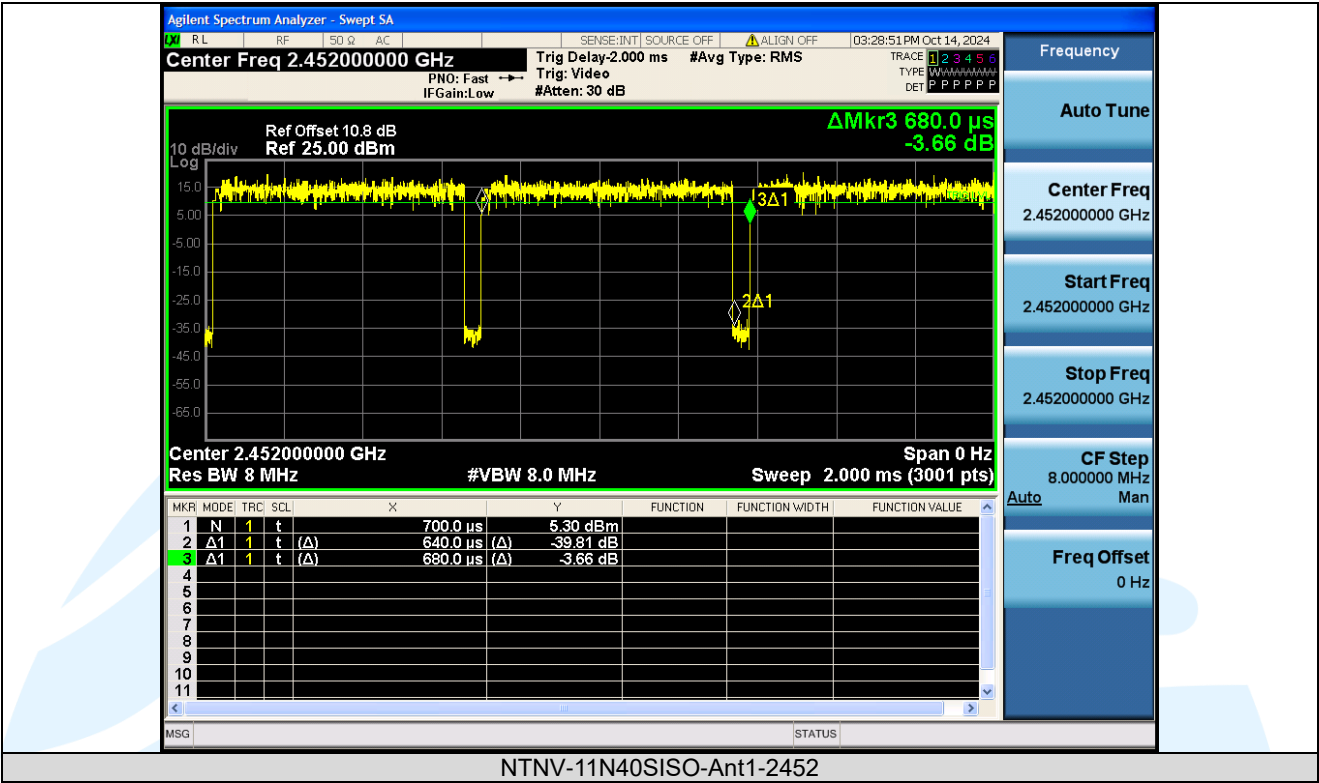
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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

5.2 ANTENNA REQUIREMENT

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. EUT Antenna: Antenna in the interior of the equipment and no consideration of replacement. The gain of the antenna is 1.22 dBi.

5.3 CONDUCTED PEAK OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3)

Test Method: ANSI C63.10-2013 Clause 11.9.1.3

Limit: For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt.

Test Procedure:

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
2. Measure out each test modes' peak or average output power, record the power level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Results:

Mode	Channel/ Frequency (MHz)	Maximum Conducted Peak Power		Maximum Conducted Average Power (dBm)		Limit (dBm)	Result
		(dBm)	(W)	Measured Value	Corrected Value		
IEEE 802.11b	1(2412)	19.12	0.08166	17.04	17.04	30	Pass
	6(2437)	19.84	0.09638	17.77	17.77	30	Pass
	11(2462)	19.85	0.09661	17.88	17.88	30	Pass
IEEE 802.11g	1(2412)	22.47	0.17660	14.72	14.86	30	Pass
	6(2437)	23.05	0.20184	15.31	15.45	30	Pass
	11(2462)	23.31	0.21429	15.51	15.65	30	Pass
IEEE 802.11n-HT20	1(2412)	22.61	0.18239	13.65	13.79	30	Pass
	6(2437)	23.25	0.21135	14.36	14.50	30	Pass
	11(2462)	23.34	0.21577	14.39	14.53	30	Pass
IEEE 802.11n-HT40	3(2422)	23.24	0.21086	14.23	14.52	30	Pass
	6(2437)	23.42	0.21979	14.25	14.54	30	Pass
	9(2452)	23.45	0.22131	14.37	14.66	30	Pass

Note: The antenna gain of 1.22 dBi less than 6dBi maximum permission antenna gain value based on 1 watt (30dBm) peak output power limit.

5.46 DB BANDWIDTH

Test Requirement:	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2013 Clause 11.8.1
Limit:	For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz
Test Procedure:	Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Use the following spectrum analyzer settings: a) Set RBW = 100 kHz. b) Set the video bandwidth (VBW) $\geq 3 \times$ 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. Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.
Test Setup:	Refer to section 4.5.3 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Please refer to Appendix A

5.5 POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (e)

Test Method: ANSI C63.10-2013 Clause 11.10.2

Limit: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Please refer to Appendix A

5.6 CONDUCTED OUT OF BAND EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(d)

Test Method: ANSI C63.10-2013 Clause 11.11

Limit: In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

Step 1: Measurement Procedure REF

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW $\geq 3 \times$ RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.
- j) Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Step 2: Measurement Procedure OOB

- a) Set RBW = 100 kHz.
- b) Set VBW ≥ 300 kHz.
- c) Detector = peak.
- d) Sweep = auto couple.
- e) Trace Mode = max hold.
- f) Allow trace to fully stabilize.
- g) Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Please refer to Appendix A

5.7 RADIATED SPURIOUS EMISSIONS

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

Test Method: ANSI C63.10-2013 Clause 11.11 & Clause 11.12

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

Spurious Emissions

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Test Setup: Refer to section 4.4.1 for details.

Test Procedures:

1. From 30 MHz to 1GHz test procedure as below:
 - 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - 3) 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.
 - 4) 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 rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - 6) 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.
2. Above 1GHz test procedure as below:
 - 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).

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- 2) Test the EUT in the lowest channel, middle channel, the Highest channel
- 3) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y positioning which it is worse case.
- 4) Repeat above procedures until all frequencies measured was complete.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The worst measurement data as follows:

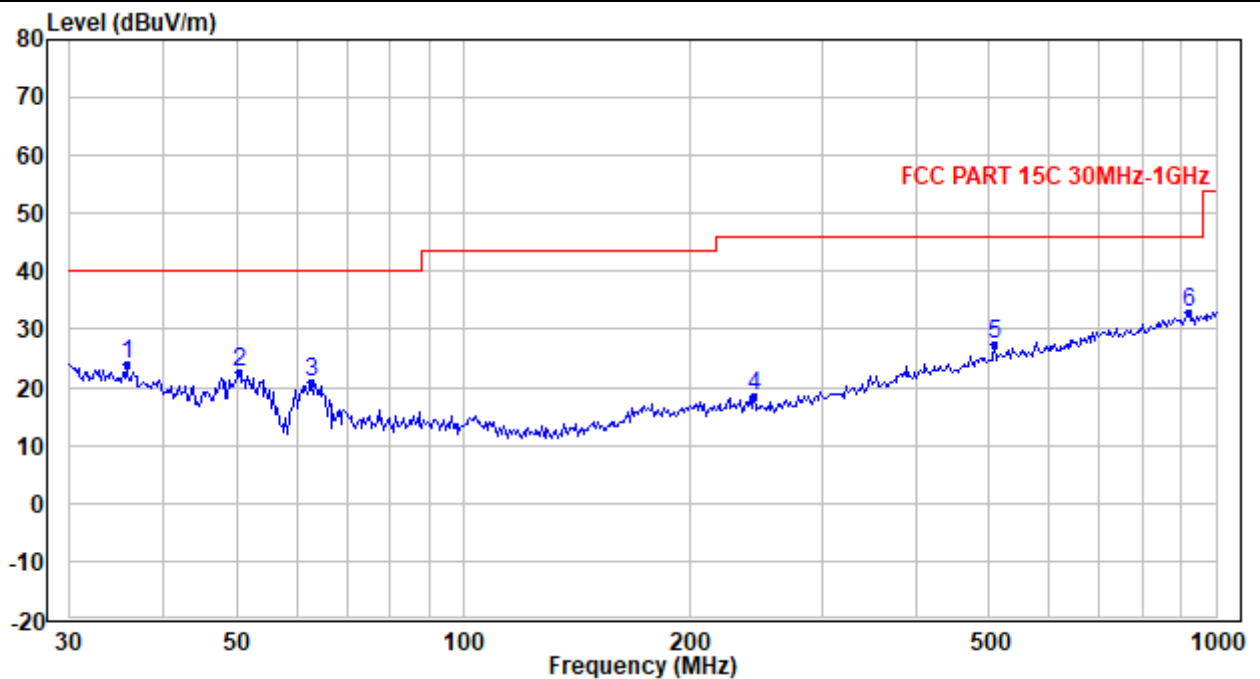
Radiated Emission Test Data (9 kHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):

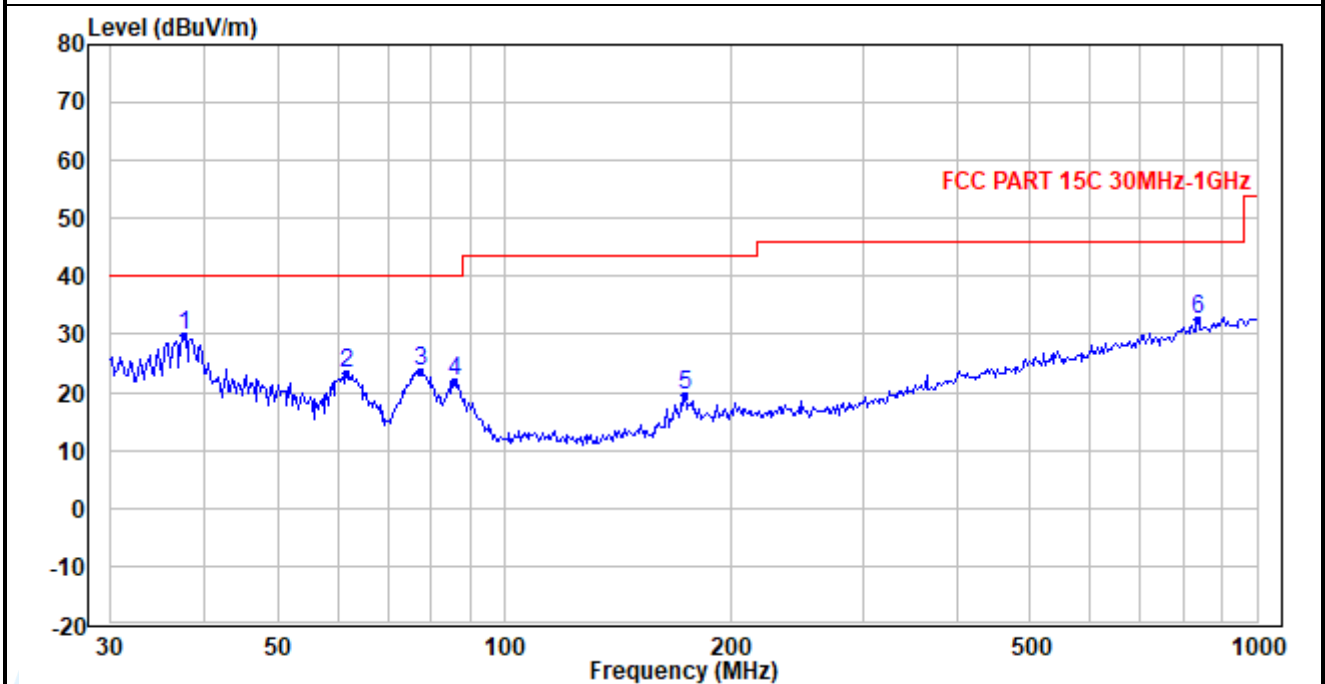
Worst-Case Configuration

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.658	30.65	-6.73	23.92	40.00	-16.08	QP
2	50.378	36.24	-13.72	22.52	40.00	-17.48	QP
3	62.683	38.19	-17.17	21.02	40.00	-18.98	QP
4	243.464	29.02	-10.61	18.41	46.00	-27.59	QP
5	508.698	29.57	-2.31	27.26	46.00	-18.74	QP
6	921.906	27.94	4.91	32.85	46.00	-13.15	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.517	36.94	-7.14	29.80	40.00	-10.20	QP
2	61.734	40.40	-17.17	23.23	40.00	-16.77	QP
3	77.203	41.75	-18.17	23.58	40.00	-16.42	QP
4	85.898	38.78	-16.85	21.93	40.00	-18.07	QP
5	174.088	30.80	-11.35	19.45	43.50	-24.05	QP
6	832.809	28.84	3.65	32.49	46.00	-13.51	QP

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Radiated Emission Test Data (Above 1GHz):								
IEEE 802.11b_ Channel 1:								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4823.682	50.80	-2.07	48.73	74.00	-25.27	Peak	Horizontal
2	4824	46.03	-2.07	43.96	54.00	-10.04	Average	Horizontal
3	7236	37.35	1.30	38.65	54.00	-15.35	Average	Horizontal
4	7236	47.32	1.30	48.62	74.00	-25.38	Peak	Horizontal
5	4823.682	50.09	-2.07	48.02	74.00	-25.98	Peak	Vertical
6	4824	42.10	-2.07	40.03	54.00	-13.97	Average	Vertical
7	7236	37.10	1.30	38.40	54.00	-15.60	Average	Vertical
8	7236	46.51	1.30	47.81	74.00	-26.19	Peak	Vertical
IEEE 802.11b_ Channel 6:								
1	4874	38.42	-2.05	36.37	54.00	-17.63	Average	Horizontal
2	4874	47.12	-2.05	45.07	74.00	-28.93	Peak	Horizontal
3	7311	36.75	1.31	38.06	54.00	-15.94	Average	Horizontal
4	7311	46.52	1.31	47.83	74.00	-26.17	Peak	Horizontal
5	4874	36.78	-2.05	34.73	54.00	-19.27	Average	Vertical
6	4874	46.23	-2.05	44.18	74.00	-29.82	Peak	Vertical
7	7311	36.76	1.31	38.07	54.00	-15.93	Average	Vertical
8	7311	46.16	1.31	47.47	74.00	-26.53	Peak	Vertical
IEEE 802.11b_ Channel 11:								
1	4924	42.77	-2.03	40.74	54.00	-13.26	Average	Horizontal
2	4924	48.20	-2.03	46.17	74.00	-27.83	Peak	Horizontal
3	7386	36.80	1.31	38.11	54.00	-15.89	Average	Horizontal
4	7386	46.19	1.31	47.50	74.00	-26.50	Peak	Horizontal
5	4924	40.36	-2.03	38.33	54.00	-15.67	Average	Vertical
6	4924	48.04	-2.03	46.01	74.00	-27.99	Peak	Vertical
7	7386	36.65	1.31	37.96	54.00	-16.04	Average	Vertical
8	7386	45.28	1.31	46.59	74.00	-27.41	Peak	Vertical

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Radiated Emission Test Data (Above 1GHz):								
IEEE 802.11g_ Channel 1:								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824	35.72	-2.07	33.65	54.00	-20.35	Average	Horizontal
2	4824	45.58	-2.07	43.51	74.00	-30.49	Peak	Horizontal
3	7236	36.73	1.30	38.03	54.00	-15.97	Average	Horizontal
4	7236	46.68	1.30	47.98	74.00	-26.02	Peak	Horizontal
5	4824	35.53	-2.07	33.46	54.00	-20.54	Average	Vertical
6	4824	46.39	-2.07	44.32	74.00	-29.68	Peak	Vertical
7	7236	37.59	1.30	38.89	54.00	-15.11	Average	Vertical
8	7236	46.77	1.30	48.07	74.00	-25.93	Peak	Vertical
IEEE 802.11g_ Channel 6:								
1	4874	35.78	-2.05	33.73	54.00	-20.27	Average	Horizontal
2	4874	44.51	-2.05	42.46	74.00	-31.54	Peak	Horizontal
3	7311	37.43	1.31	38.74	54.00	-15.26	Average	Horizontal
4	7311	46.07	1.31	47.38	74.00	-26.62	Peak	Horizontal
5	4874	34.92	-2.05	32.87	54.00	-21.13	Average	Vertical
6	4874	44.56	-2.05	42.51	74.00	-31.49	Peak	Vertical
7	7311	36.62	1.31	37.93	54.00	-16.07	Average	Vertical
8	7311	46.14	1.31	47.45	74.00	-26.55	Peak	Vertical
IEEE 802.11g_ Channel 11:								
1	4924	34.82	-2.03	32.79	54.00	-21.21	Average	Horizontal
2	4924	44.13	-2.03	42.10	74.00	-31.90	Peak	Horizontal
3	7386	36.28	1.31	37.59	54.00	-16.41	Average	Horizontal
4	7386	46.62	1.31	47.93	74.00	-26.07	Peak	Horizontal
5	4924	34.98	-2.03	32.95	54.00	-21.05	Average	Vertical
6	4924	44.73	-2.03	42.70	74.00	-31.30	Peak	Vertical
7	7386	37.00	1.31	38.31	54.00	-15.69	Average	Vertical
8	7386	46.62	1.31	47.93	74.00	-26.07	Peak	Vertical

Radiated Emission Test Data (Above 1GHz):
IEEE 802.11n-HT20_Channel 1:

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824	36.06	-2.07	33.99	54.00	-20.01	Average	Horizontal
2	4824	44.76	-2.07	42.69	74.00	-31.31	Peak	Horizontal
3	7236	37.26	1.30	38.56	54.00	-15.44	Average	Horizontal
4	7236	47.83	1.30	49.13	74.00	-24.87	Peak	Horizontal
5	4824	35.56	-2.07	33.49	54.00	-20.51	Average	Vertical
6	4824	44.65	-2.07	42.58	74.00	-31.42	Peak	Vertical
7	7236	37.37	1.30	38.67	54.00	-15.33	Average	Vertical
8	7236	47.05	1.30	48.35	74.00	-25.65	Peak	Vertical

IEEE 802.11n-HT20_Channel 6:

1	4874	35.19	-2.05	33.14	54.00	-20.86	Average	Horizontal
2	4874	44.97	-2.05	42.92	74.00	-31.08	Peak	Horizontal
3	7311	37.38	1.31	38.69	54.00	-15.31	Average	Horizontal
4	7311	46.83	1.31	48.14	74.00	-25.86	Peak	Horizontal
5	4874	34.92	-2.05	32.87	54.00	-21.13	Average	Vertical
6	4874	44.13	-2.05	42.08	74.00	-31.92	Peak	Vertical
7	7311	37.04	1.31	38.35	54.00	-15.65	Average	Vertical
8	7311	46.63	1.31	47.94	74.00	-26.06	Peak	Vertical

IEEE 802.11n-HT20_Channel 11:

1	4924	34.42	-2.03	32.39	54.00	-21.61	Average	Horizontal
2	4924	43.68	-2.03	41.65	74.00	-32.35	Peak	Horizontal
3	7386	36.89	1.31	38.20	54.00	-15.80	Average	Horizontal
4	7386	45.98	1.31	47.29	74.00	-26.71	Peak	Horizontal
5	4924	34.51	-2.03	32.48	54.00	-21.52	Average	Vertical
6	4924	44.13	-2.03	42.10	74.00	-31.90	Peak	Vertical
7	7386	36.31	1.31	37.62	54.00	-16.38	Average	Vertical
8	7386	44.81	1.31	46.12	74.00	-27.88	Peak	Vertical

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Radiated Emission Test Data (Above 1GHz):								
IEEE 802.11n-HT40_Channel 3:								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4844	35.73	-2.06	33.67	54.00	-20.33	Average	Horizontal
2	4844	44.96	-2.06	42.90	74.00	-31.10	Peak	Horizontal
3	7266	37.71	1.31	39.02	54.00	-14.98	Average	Horizontal
4	7266	46.92	1.31	48.23	74.00	-25.77	Peak	Horizontal
5	4844	35.09	-2.06	33.03	54.00	-20.97	Average	Vertical
6	4844	45.03	-2.06	42.97	74.00	-31.03	Peak	Vertical
7	7266	37.54	1.31	38.85	54.00	-15.15	Average	Vertical
8	7266	47.31	1.31	48.62	74.00	-25.38	Peak	Vertical
IEEE 802.11n-HT40_Channel 6:								
1	4874	34.94	-2.05	32.89	54.00	-21.11	Average	Horizontal
2	4874	44.19	-2.05	42.14	74.00	-31.86	Peak	Horizontal
3	7311	37.08	1.31	38.39	54.00	-15.61	Average	Horizontal
4	7311	45.85	1.31	47.16	74.00	-26.84	Peak	Horizontal
5	4874	35.16	-2.05	33.11	54.00	-20.89	Average	Vertical
6	4874	46.17	-2.05	44.12	74.00	-29.88	Peak	Vertical
7	7311	36.70	1.31	38.01	54.00	-15.99	Average	Vertical
8	7311	45.97	1.31	47.28	74.00	-26.72	Peak	Vertical
IEEE 802.11n-HT40_Channel 9:								
1	4904	35.53	-2.04	33.49	54.00	-20.51	Average	Horizontal
2	4904	44.44	-2.04	42.40	74.00	-31.60	Peak	Horizontal
3	7356	37.53	1.31	38.84	54.00	-15.16	Average	Horizontal
4	7356	46.20	1.31	47.51	74.00	-26.49	Peak	Horizontal
5	4904	35.34	-2.04	33.30	54.00	-20.70	Average	Vertical
6	4904	44.59	-2.04	42.55	74.00	-31.45	Peak	Vertical
7	7356	36.66	1.31	37.97	54.00	-16.03	Average	Vertical
8	7356	45.83	1.31	47.14	74.00	-26.86	Peak	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit.

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5.8 BAND EDGE MEASUREMENTS (RADIATED)

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

Test Method: ANSI C63.10-2013 Clause 11.13

Limits:

Radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).

Frequency	Limit (dB μ V/m @3m)	Remark
30 MHz-88 MHz	40.0	Quasi-peak Value
88 MHz-216 MHz	43.5	Quasi-peak Value
216 MHz-960 MHz	46.0	Quasi-peak Value
960 MHz-1 GHz	54.0	Quasi-peak Value
Above 1 GHz	54.0	Average Value
	74.0	Peak Value

Test Setup: Refer to section 4.4.1 for details.

Test Procedures:

Radiated band edge measurements at 2390 MHz and 2483.5 MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 3 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz or 1/T for average levels).

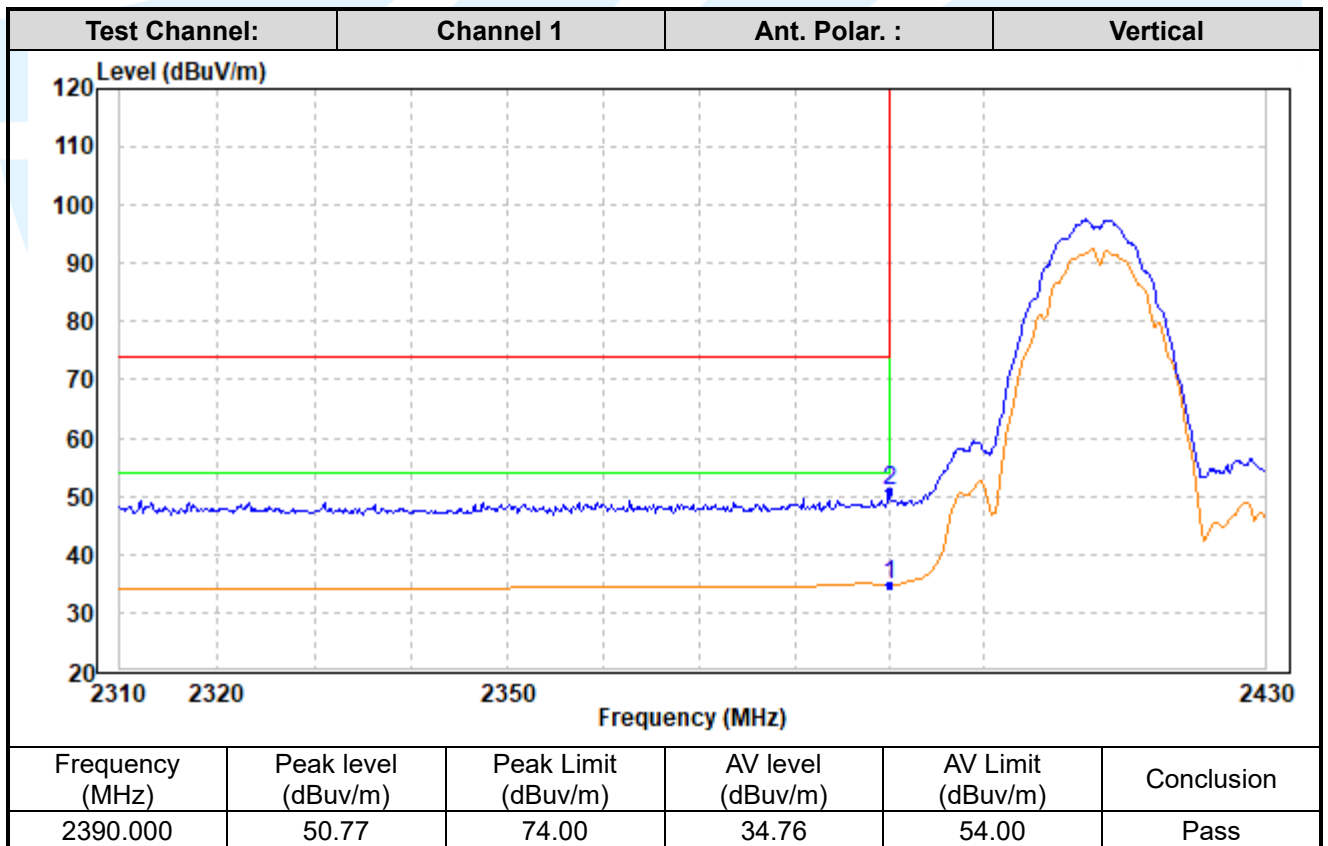
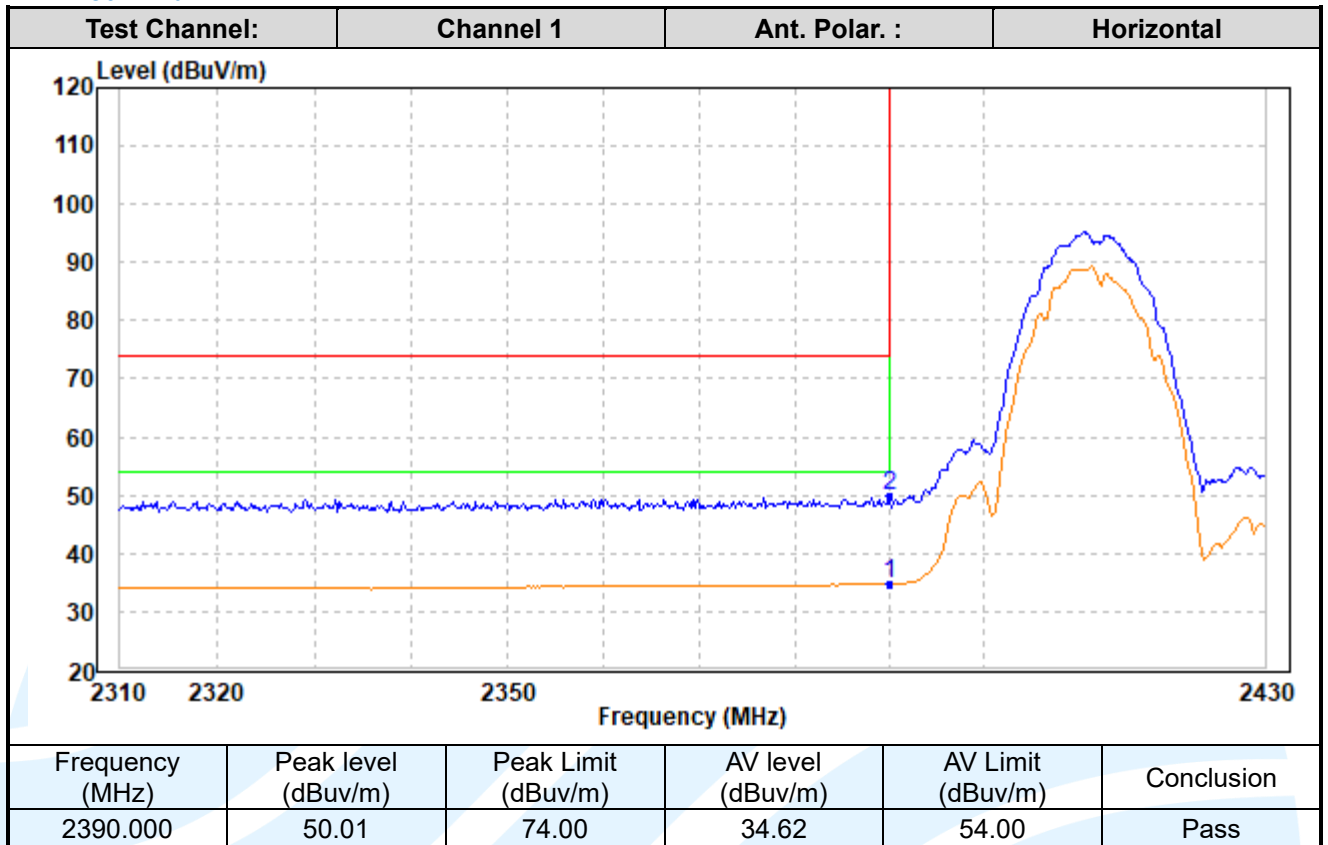
1. Use radiated spurious emission test procedure described in clause 5.10. The transmitter output (antenna port) was connected to the test receiver.
2. Set the PK and AV limit line.
3. Record the fundamental emission and emissions out of the band-edge.
4. Determine band-edge compliance as required.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

IEEE 802.11b



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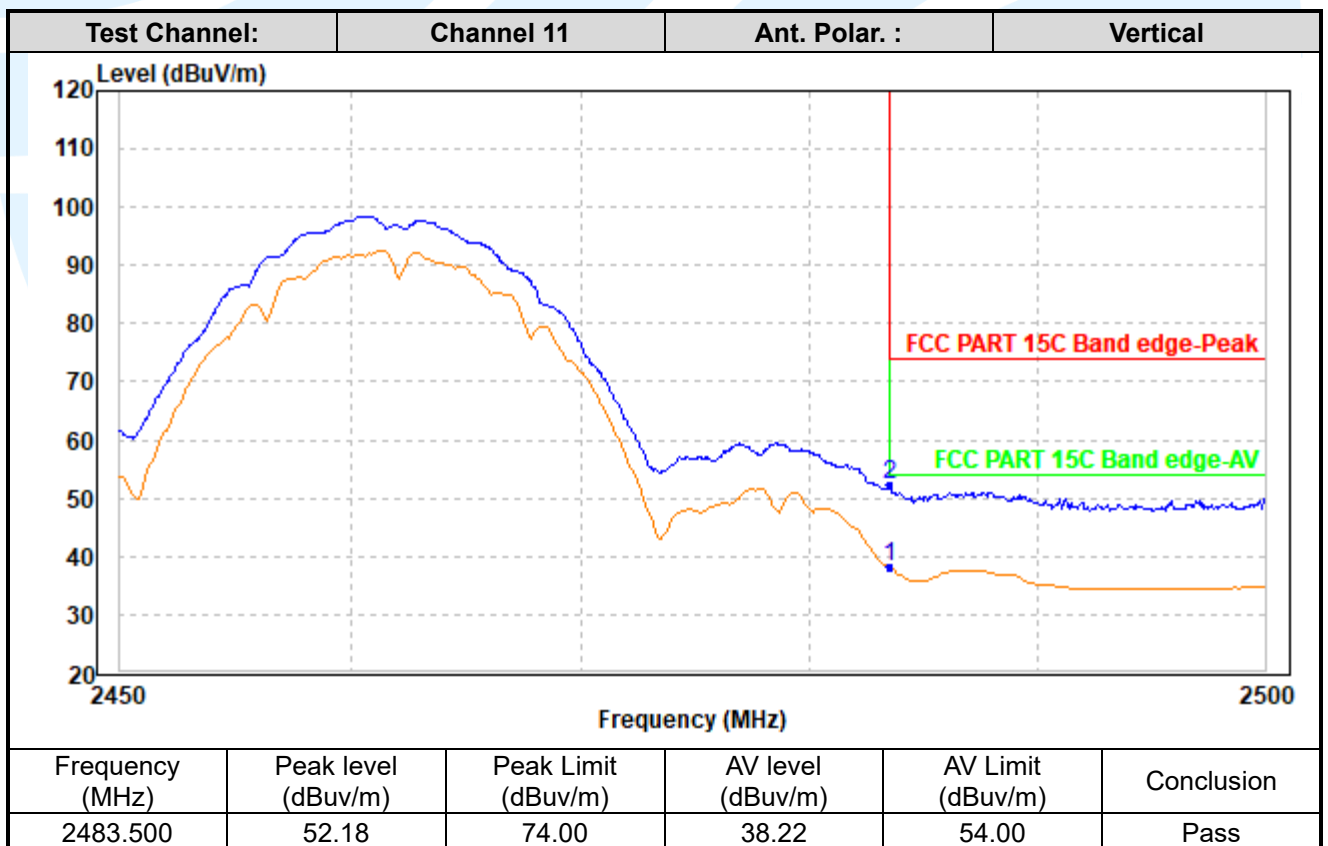
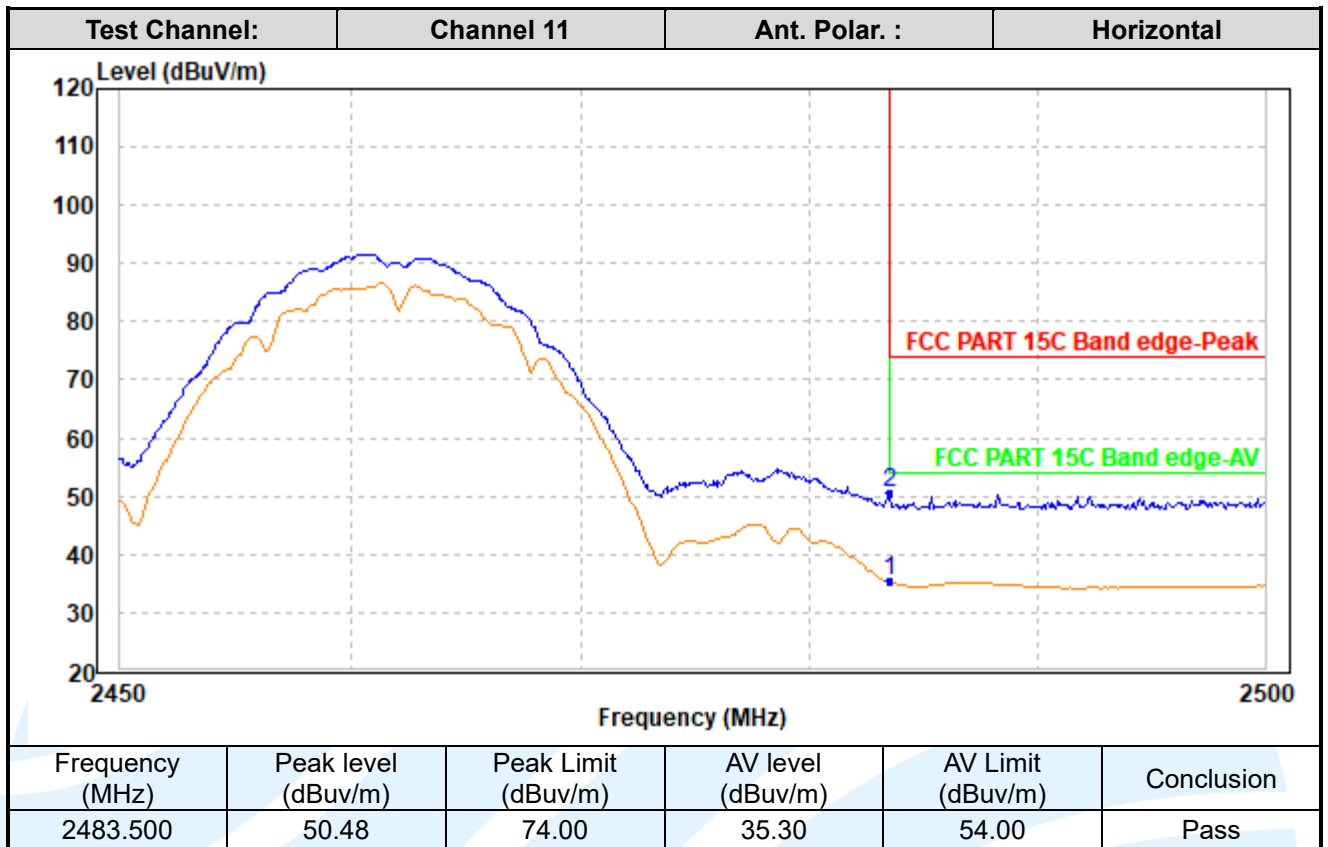
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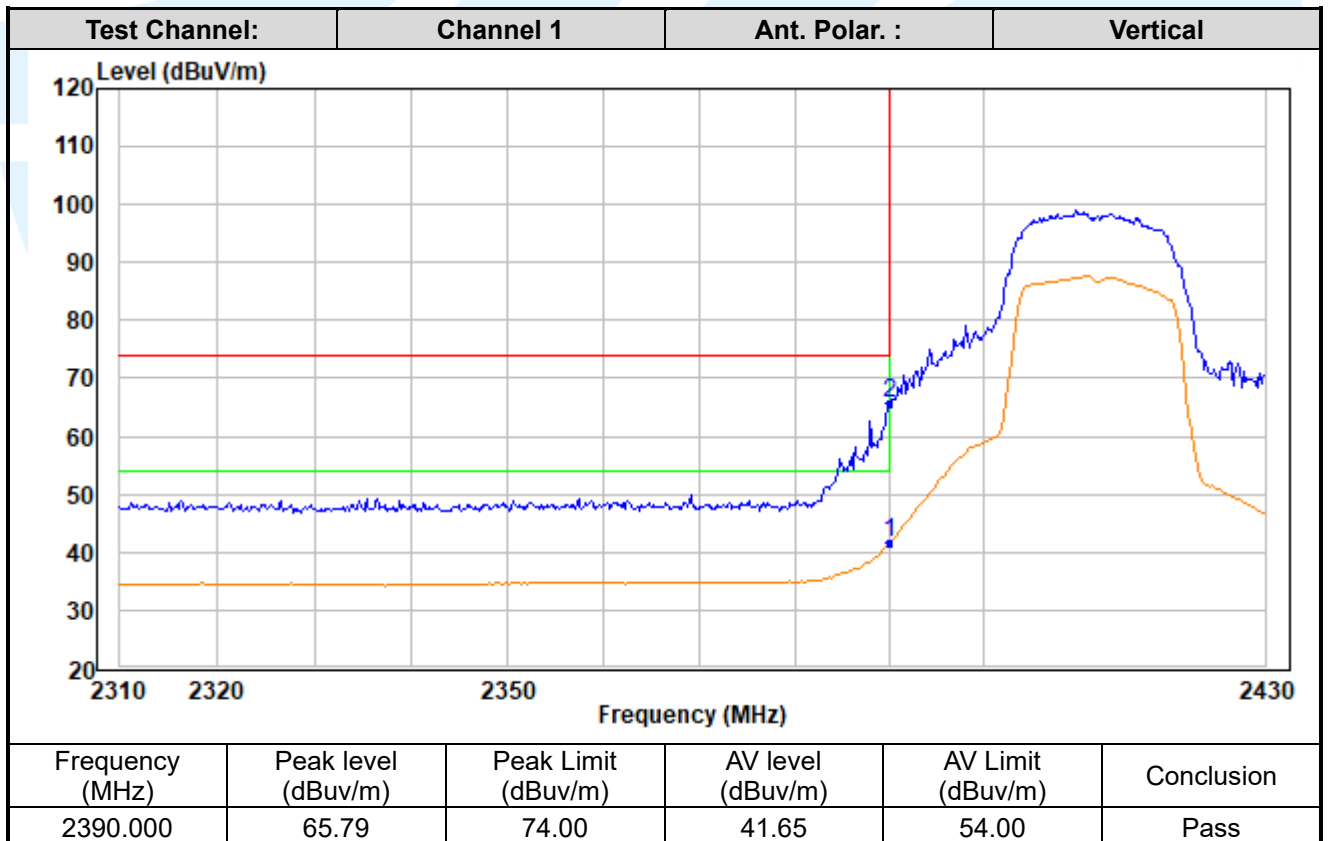
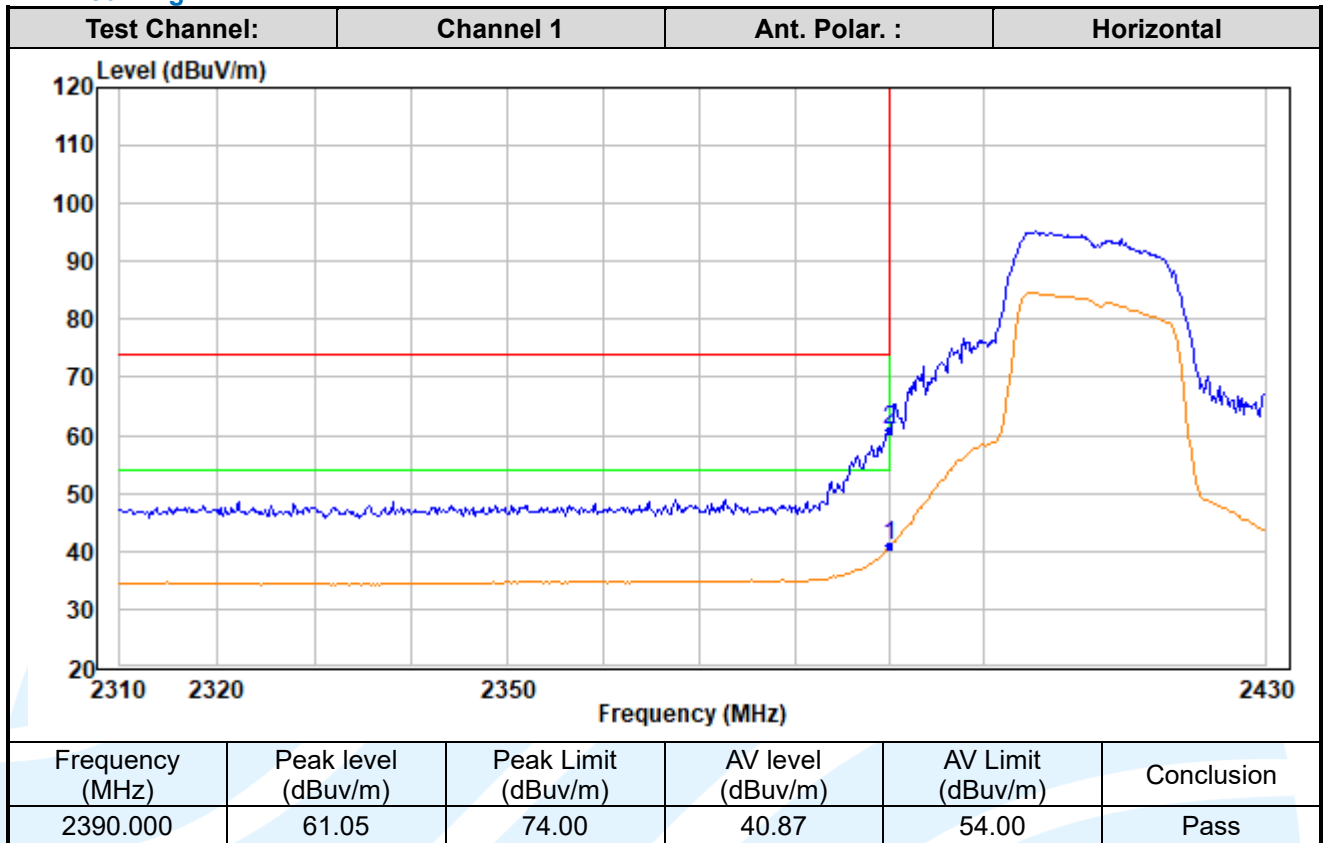
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IEEE 802.11g



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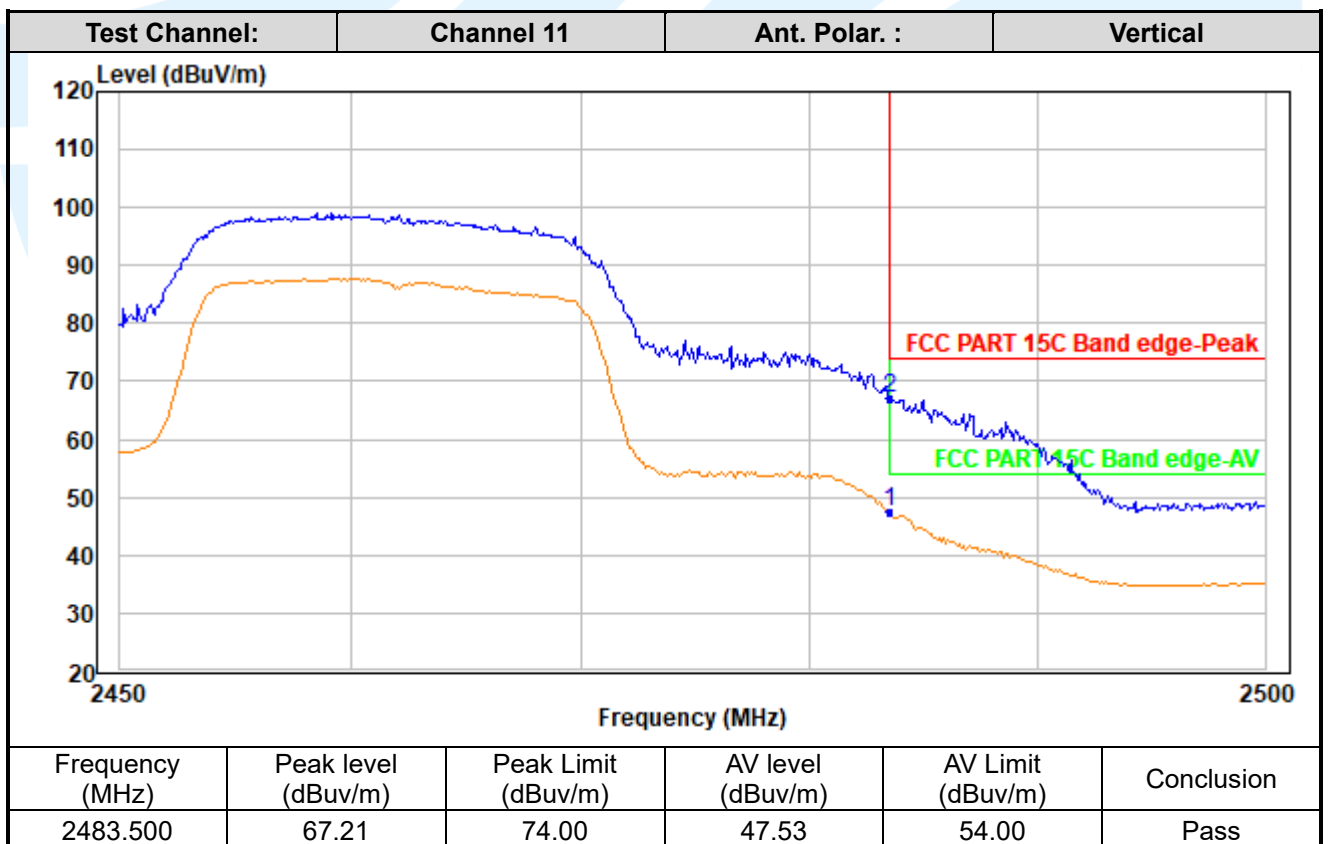
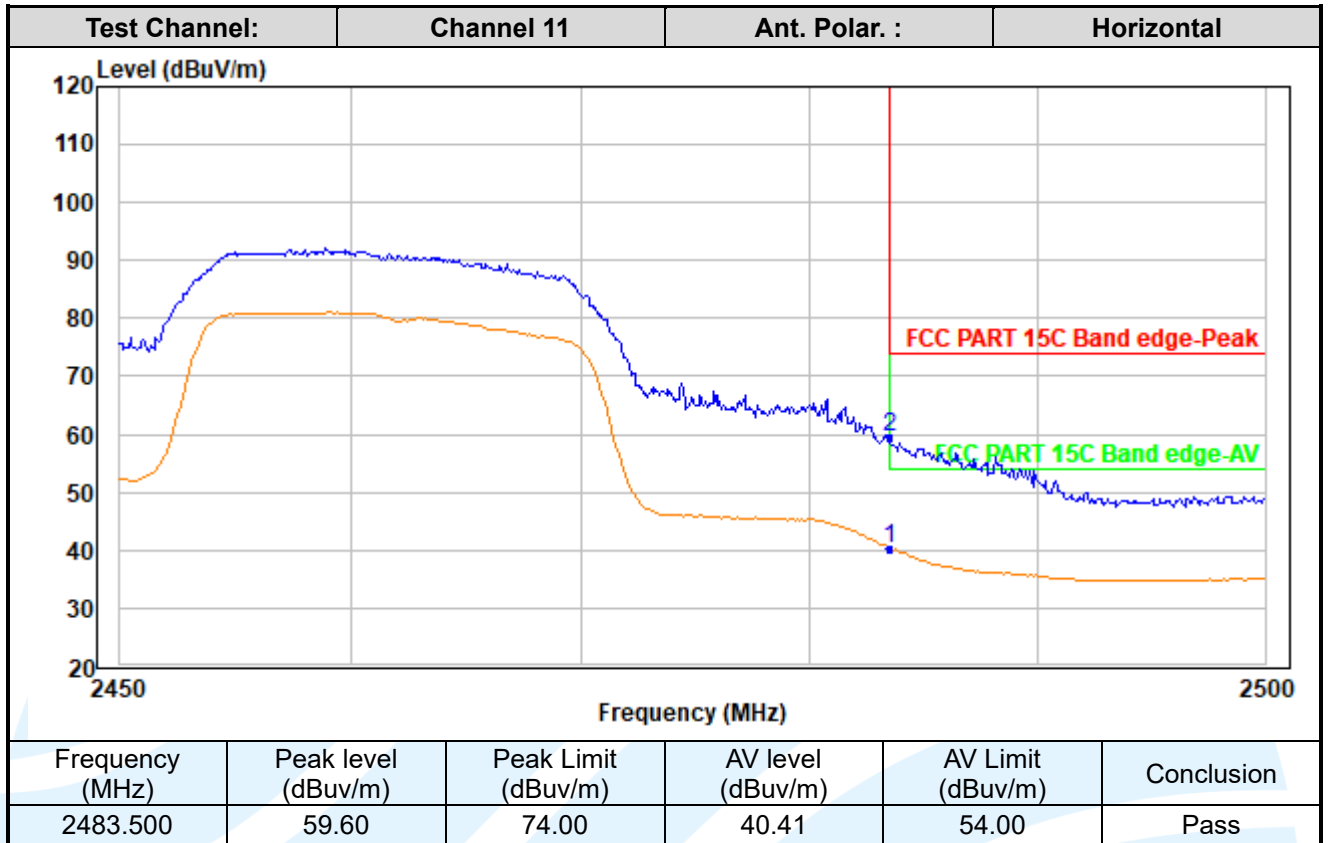
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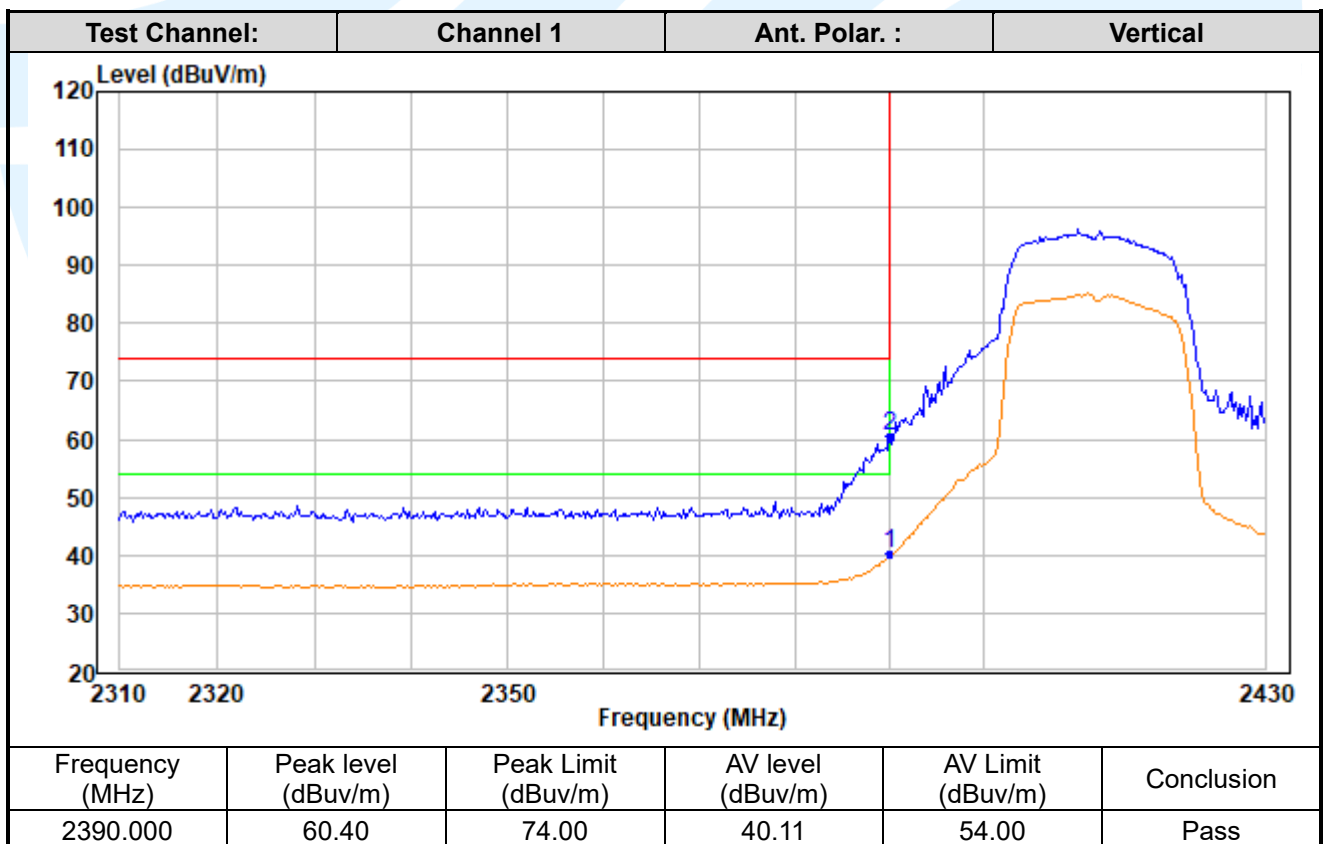
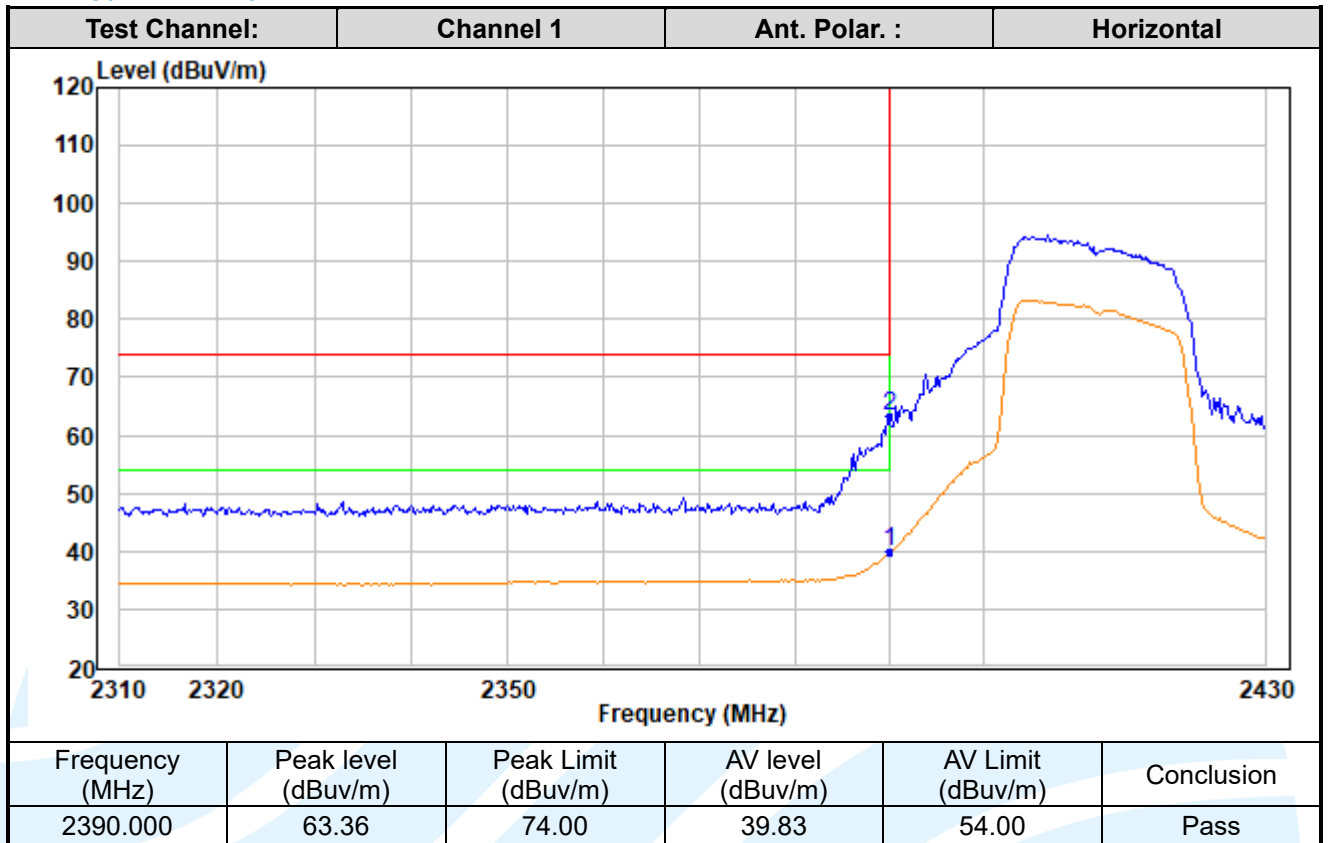
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IEEE 802.11n-HT20



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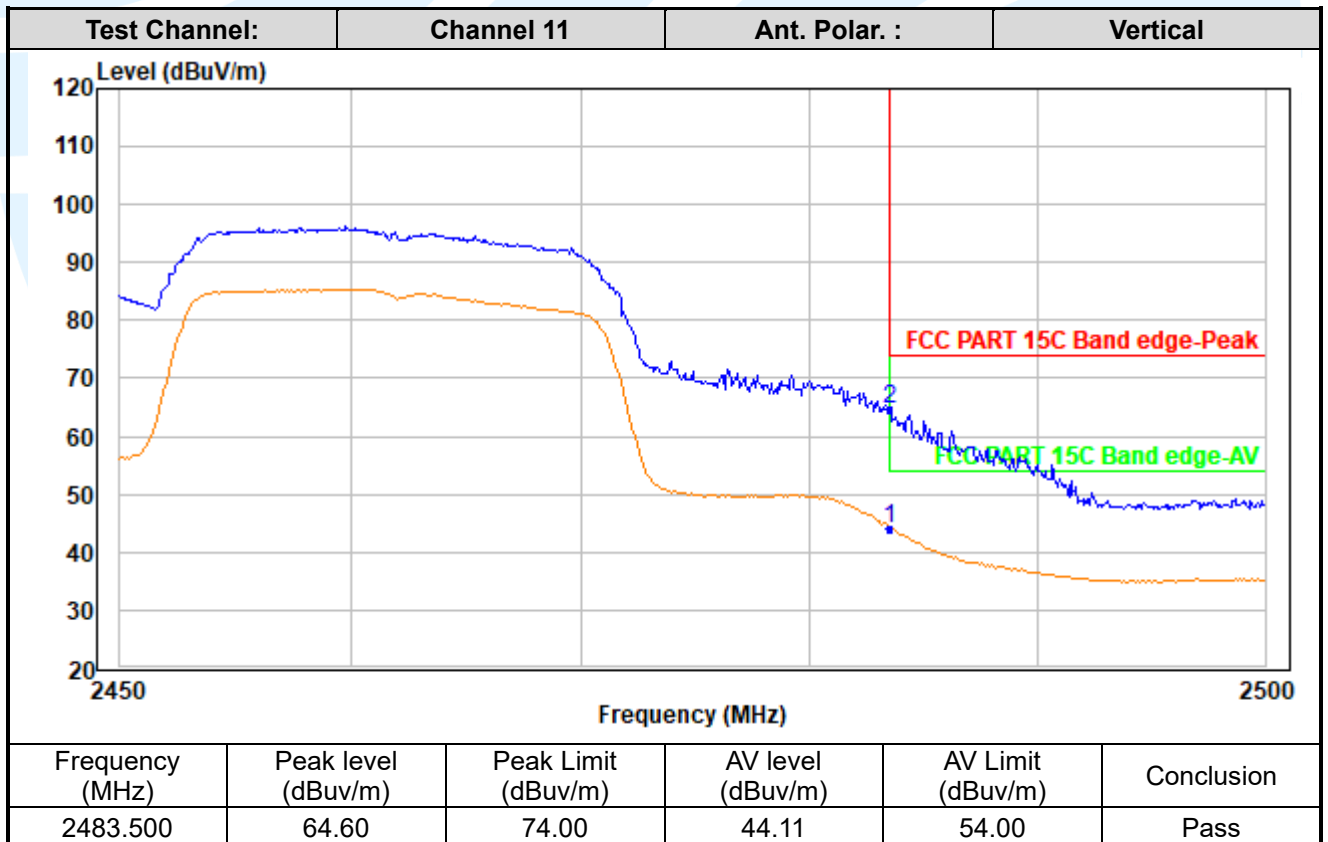
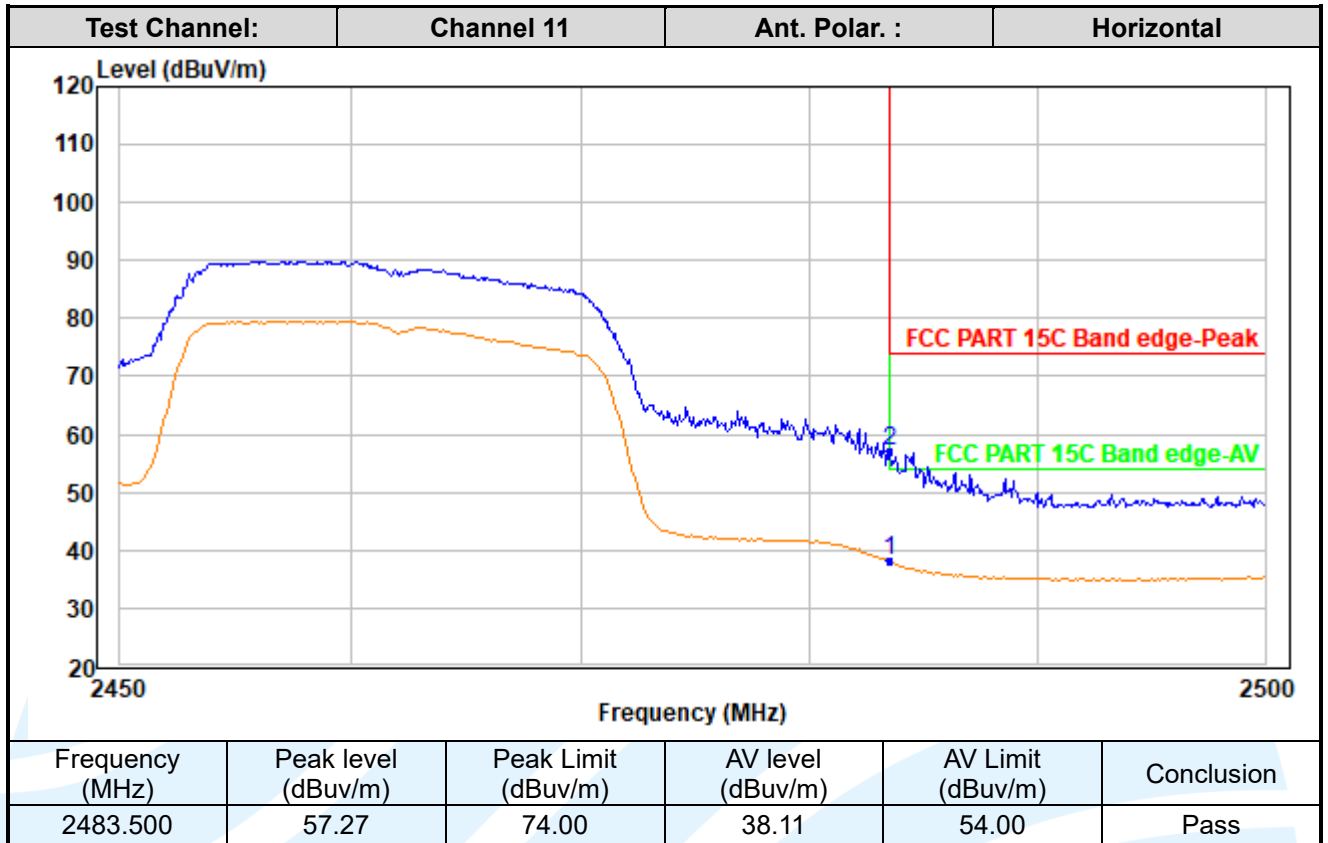
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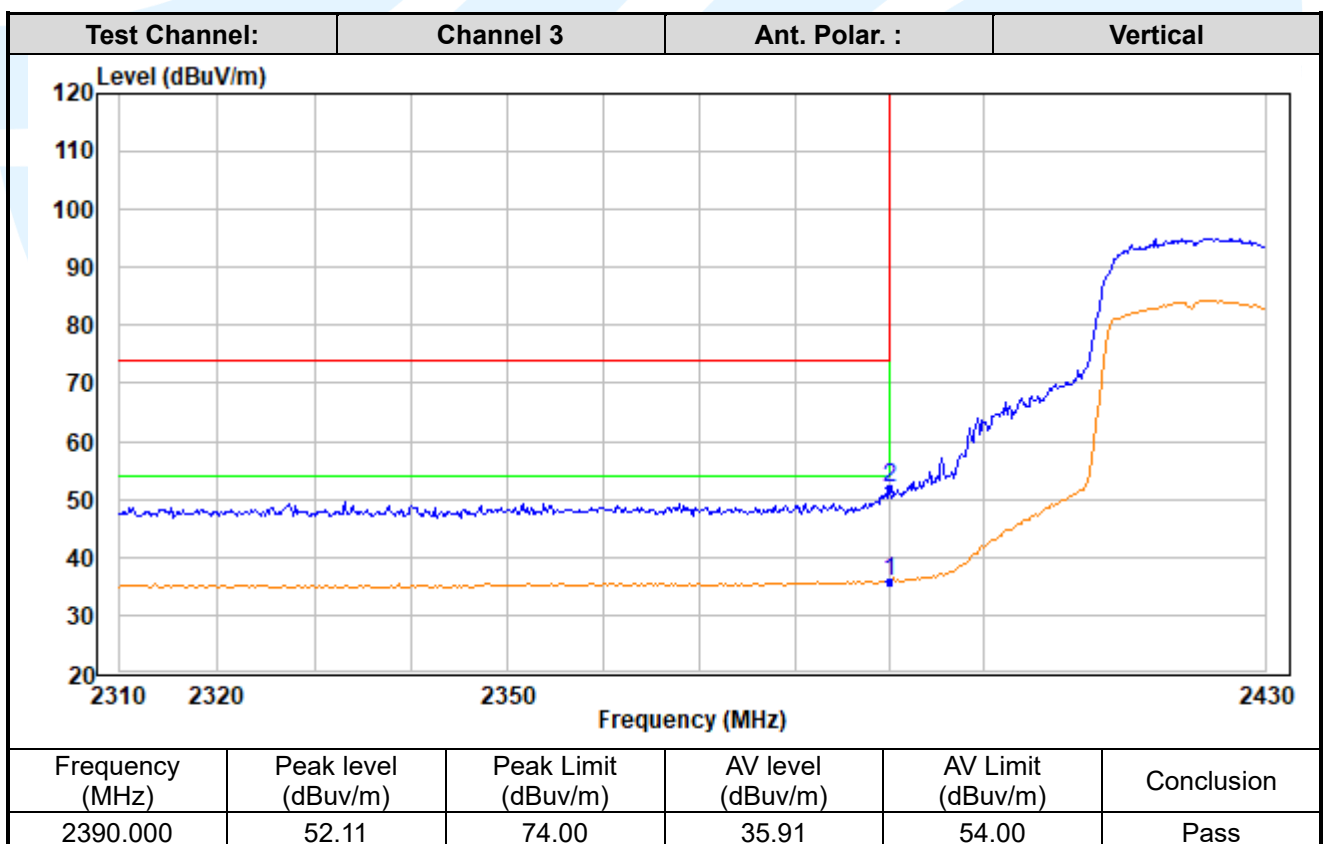
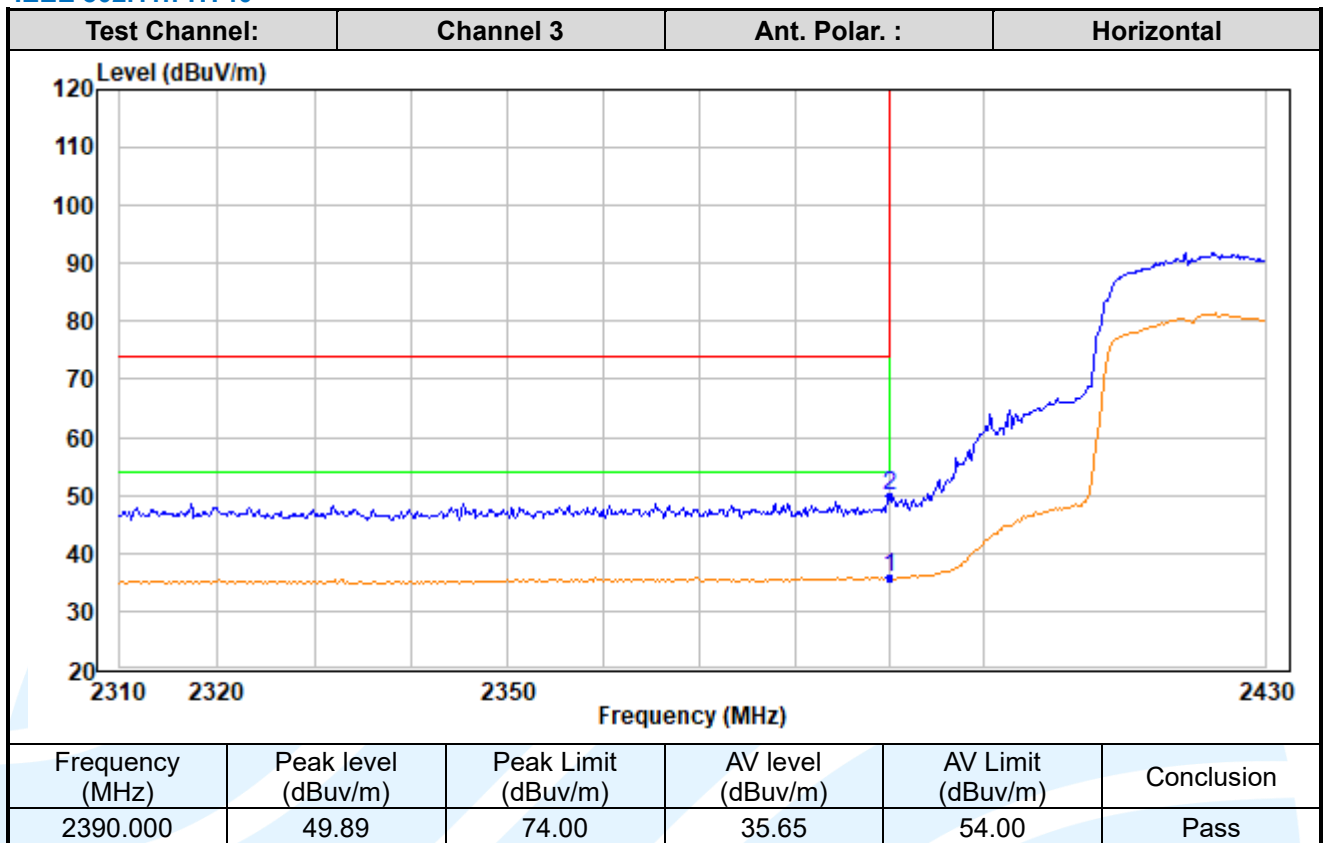
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IEEE 802.11n-HT40



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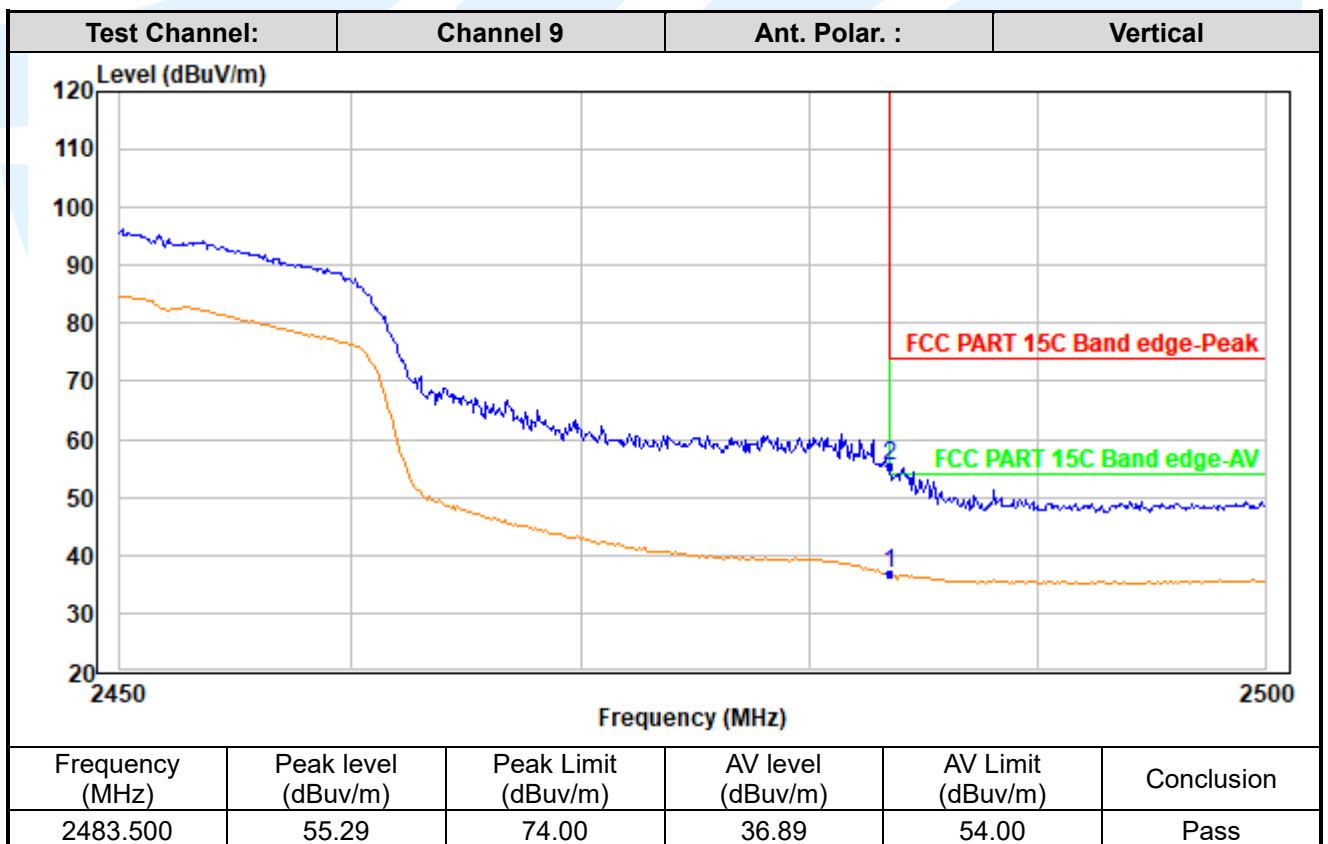
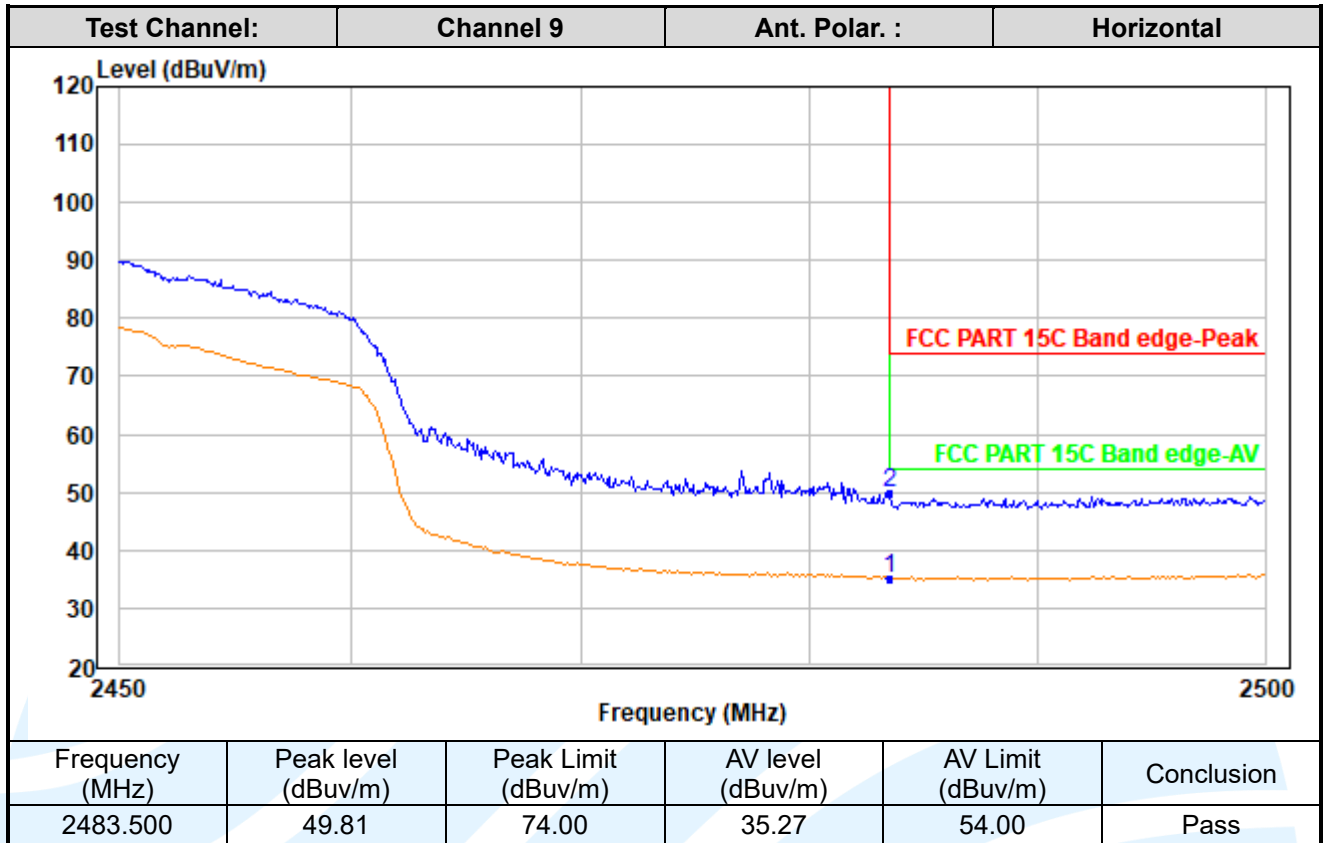
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5.9 CONDUCTED EMISSION

Test Requirement: 47 CFR Part 15C Section 15.207

Test Method: ANSI C63.10-2013 Section 6.2

Limits:

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.4.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

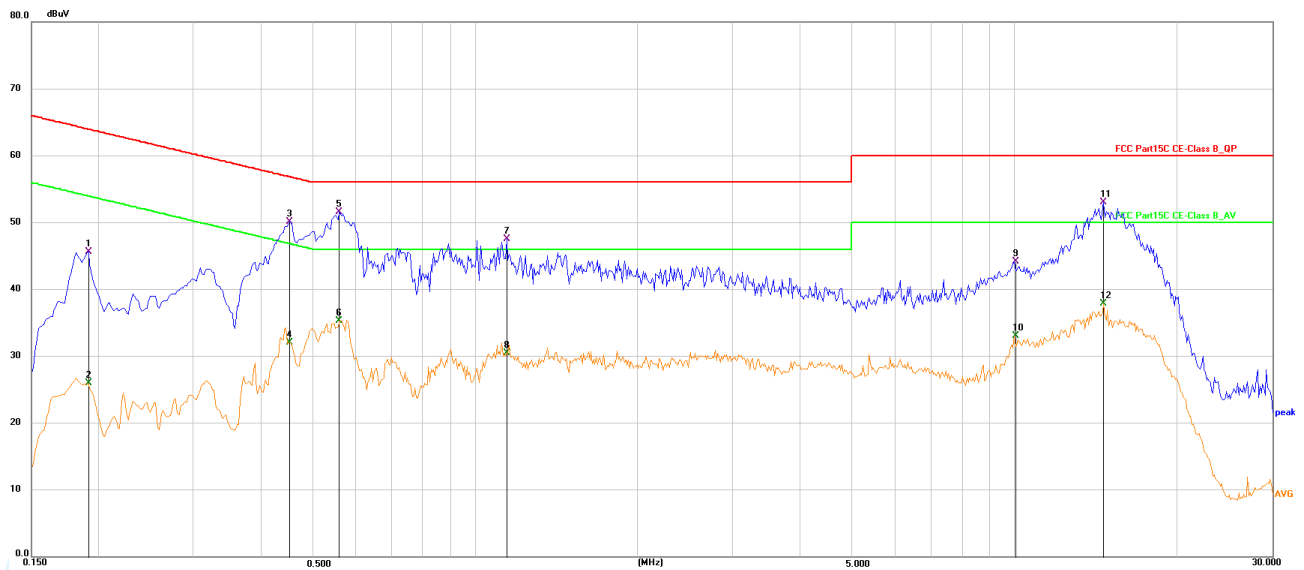
Test Result: Pass

The worst measurement data as follows:

Quasi Peak and Average:

Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1905	35.43	10.16	45.59	64.01	-18.42	QP
2	0.1905	15.76	10.16	25.92	54.01	-28.09	AVG
3	0.4515	39.95	10.16	50.11	56.85	-6.74	QP
4	0.4515	21.89	10.16	32.05	46.85	-14.80	AVG
5	0.5594	41.32	10.20	51.52	56.00	-4.48	QP
6	0.5594	25.08	10.20	35.28	46.00	-10.72	AVG
7	1.1445	37.18	10.33	47.51	56.00	-8.49	QP
8	1.1445	20.13	10.33	30.46	46.00	-15.54	AVG
9	10.0090	33.67	10.48	44.15	60.00	-15.85	QP
10	10.0090	22.60	10.48	33.08	50.00	-16.92	AVG
11	14.6173	42.51	10.51	53.02	60.00	-6.98	QP
12	14.6173	27.33	10.51	37.84	50.00	-12.16	AVG

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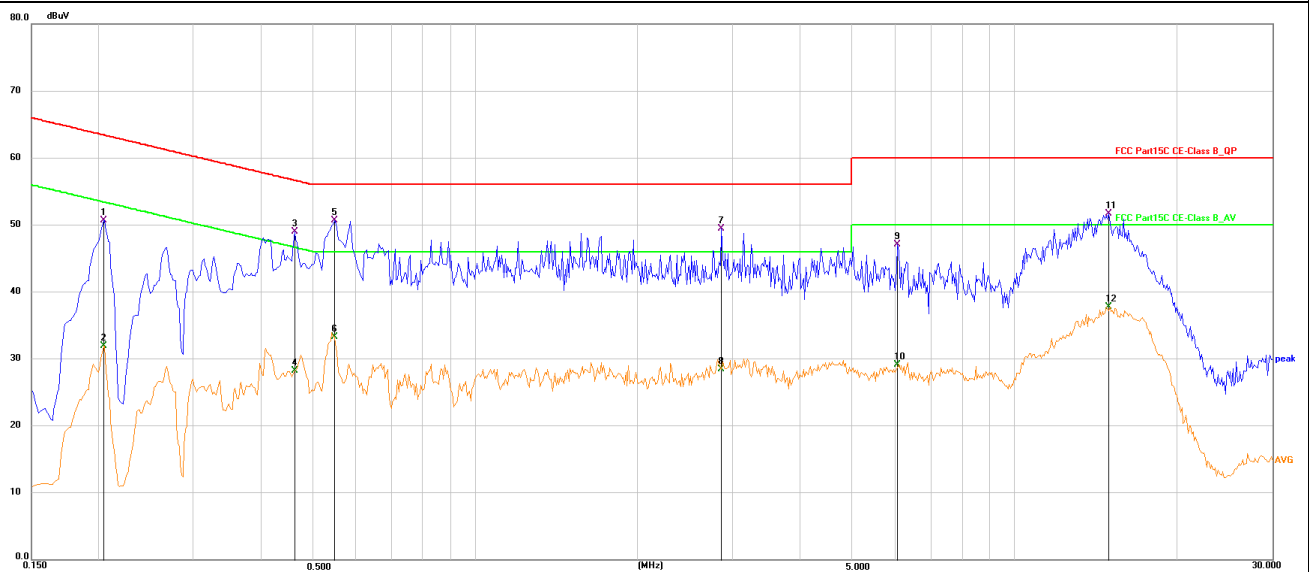
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Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2040	40.61	10.05	50.66	63.45	-12.79	QP
2	0.2040	21.86	10.05	31.91	53.45	-21.54	AVG
3	0.4605	38.73	10.24	48.97	56.68	-7.71	QP
4	0.4605	18.00	10.24	28.24	46.68	-18.44	AVG
5	0.5460	40.36	10.27	50.63	56.00	-5.37	QP
6	0.5460	23.03	10.27	33.30	46.00	-12.70	AVG
7	2.8680	39.16	10.25	49.41	56.00	-6.59	QP
8	2.8680	18.16	10.25	28.41	46.00	-17.59	AVG
9	6.0853	36.76	10.29	47.05	60.00	-12.95	QP
10	6.0853	18.88	10.29	29.17	50.00	-20.83	AVG
11	14.9190	41.04	10.65	51.69	60.00	-8.31	QP
12	14.9190	27.12	10.65	37.77	50.00	-12.23	AVG

Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V~50Hz and 120V~60Hz, only the worst case emissions reported.

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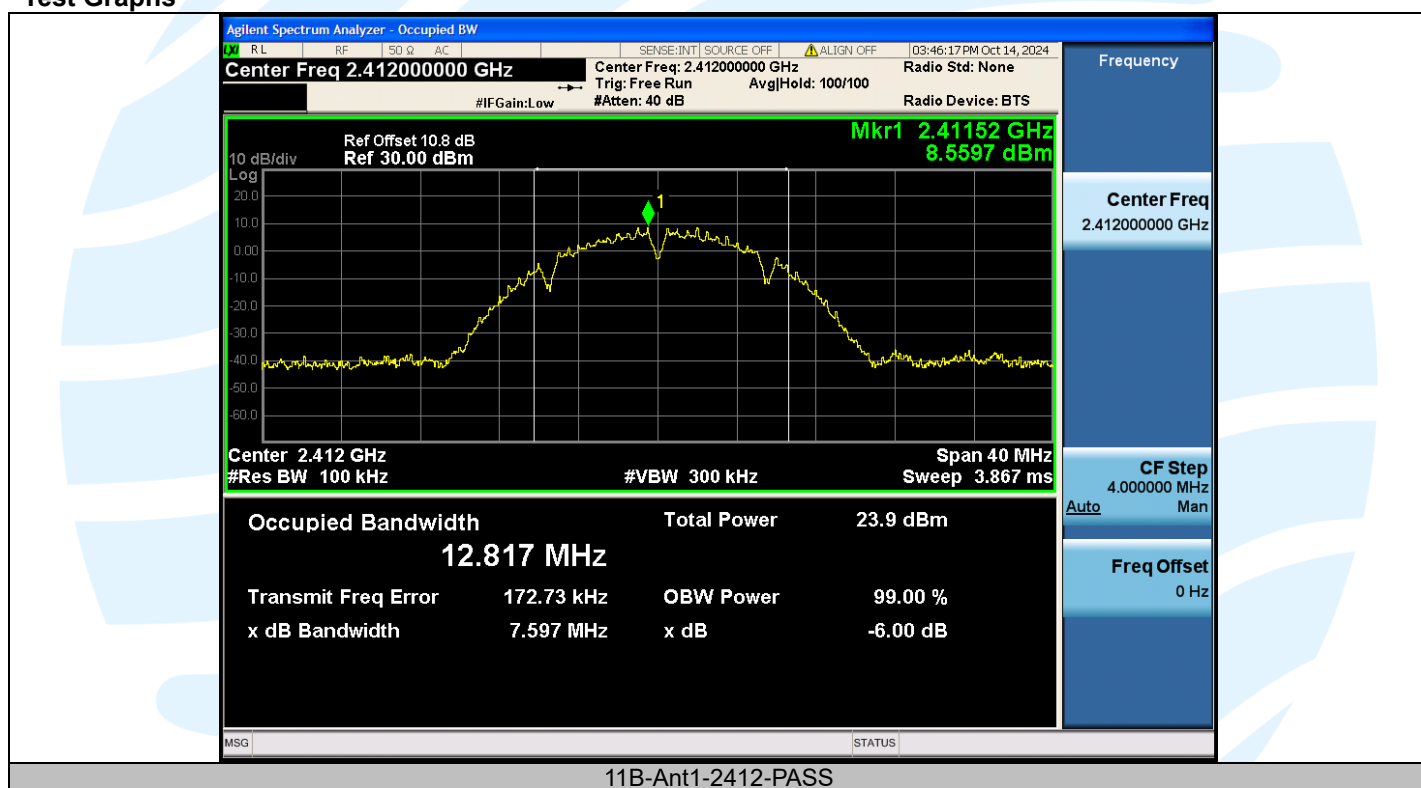
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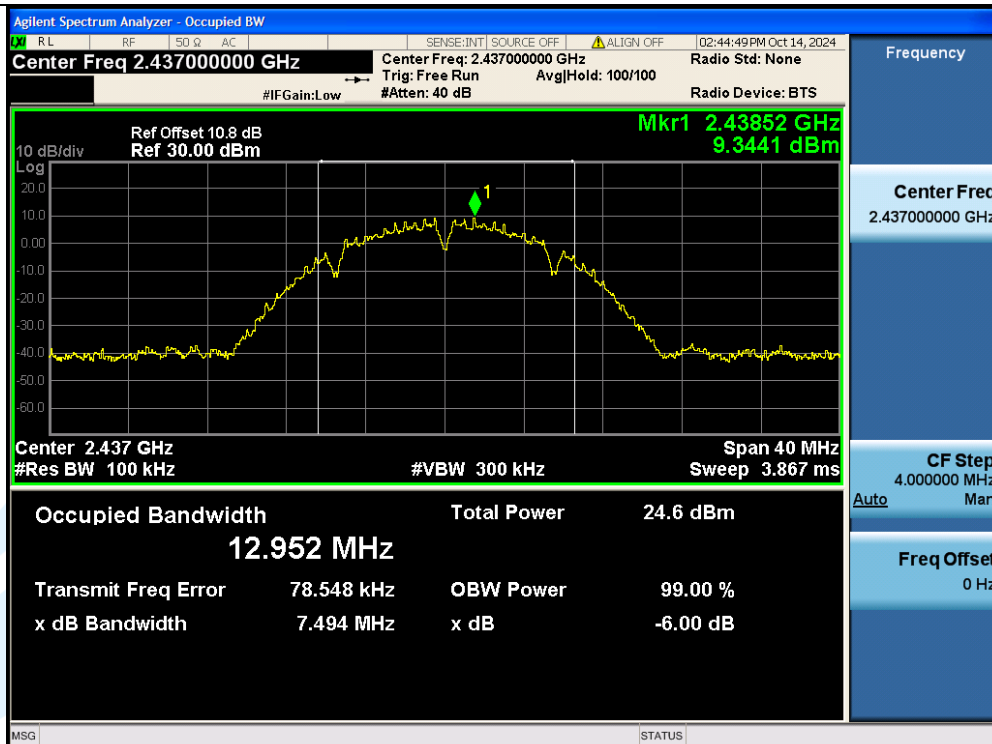
APPENDIX A RF TEST DATA

A.1 DTS BANDWIDTH

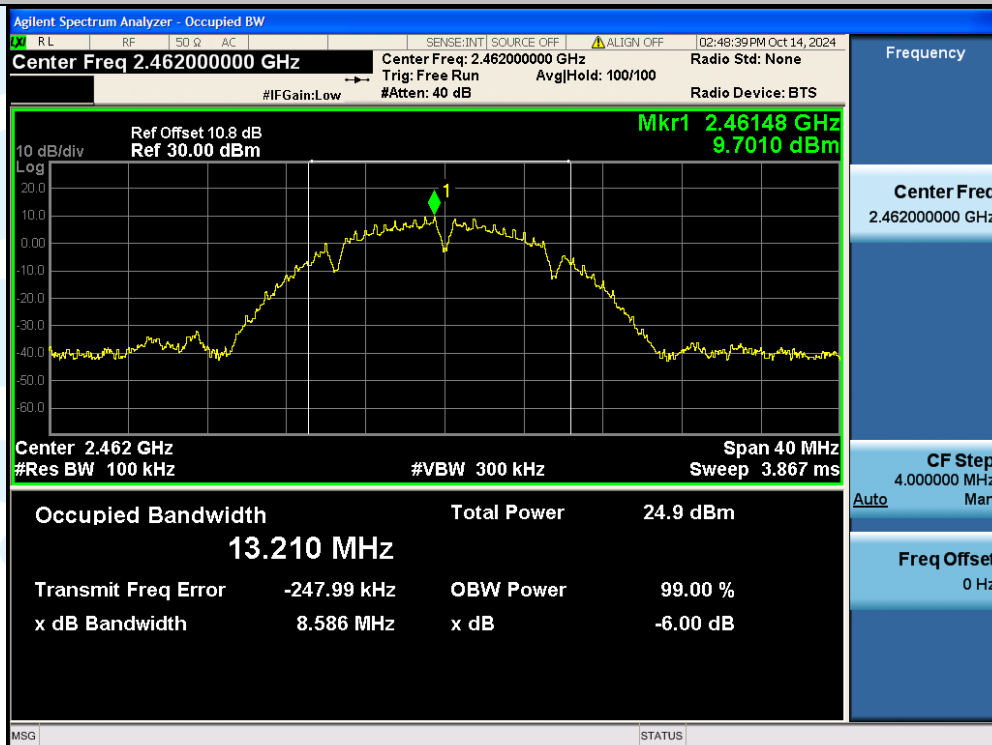
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.597	0	0	0.5	PASS
11B	Ant1	2437	7.494	0	0	0.5	PASS
11B	Ant1	2462	8.586	0	0	0.5	PASS
11G	Ant1	2412	15.72	0	0	0.5	PASS
11G	Ant1	2437	15.30	0	0	0.5	PASS
11G	Ant1	2462	15.65	0	0	0.5	PASS
11N20SISO	Ant1	2412	14.79	0	0	0.5	PASS
11N20SISO	Ant1	2437	14.09	0	0	0.5	PASS
11N20SISO	Ant1	2462	16.10	0	0	0.5	PASS
11N40SISO	Ant1	2422	32.64	0	0	0.5	PASS
11N40SISO	Ant1	2437	32.70	0	0	0.5	PASS
11N40SISO	Ant1	2452	30.09	0	0	0.5	PASS

Test Graphs





11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

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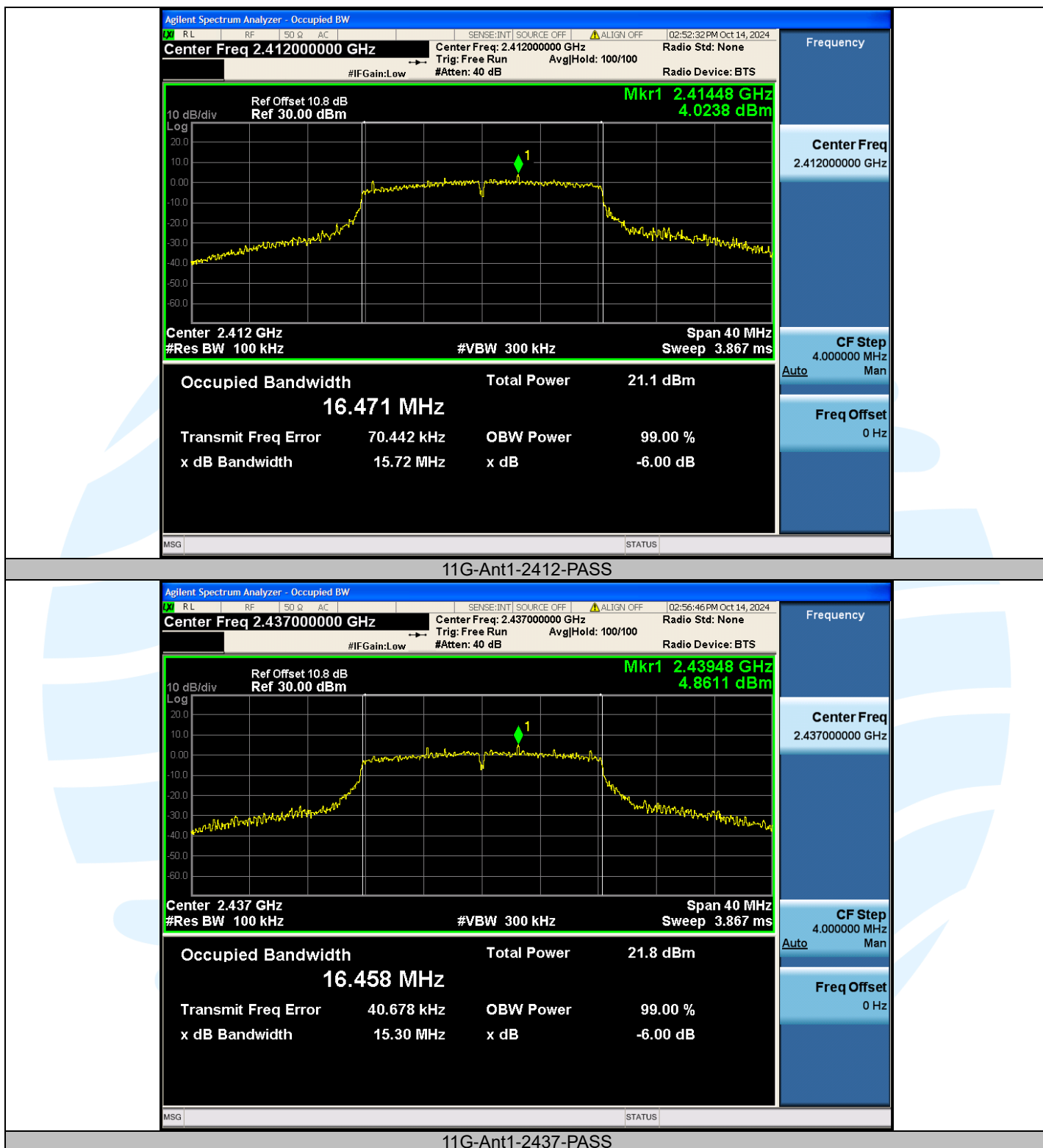
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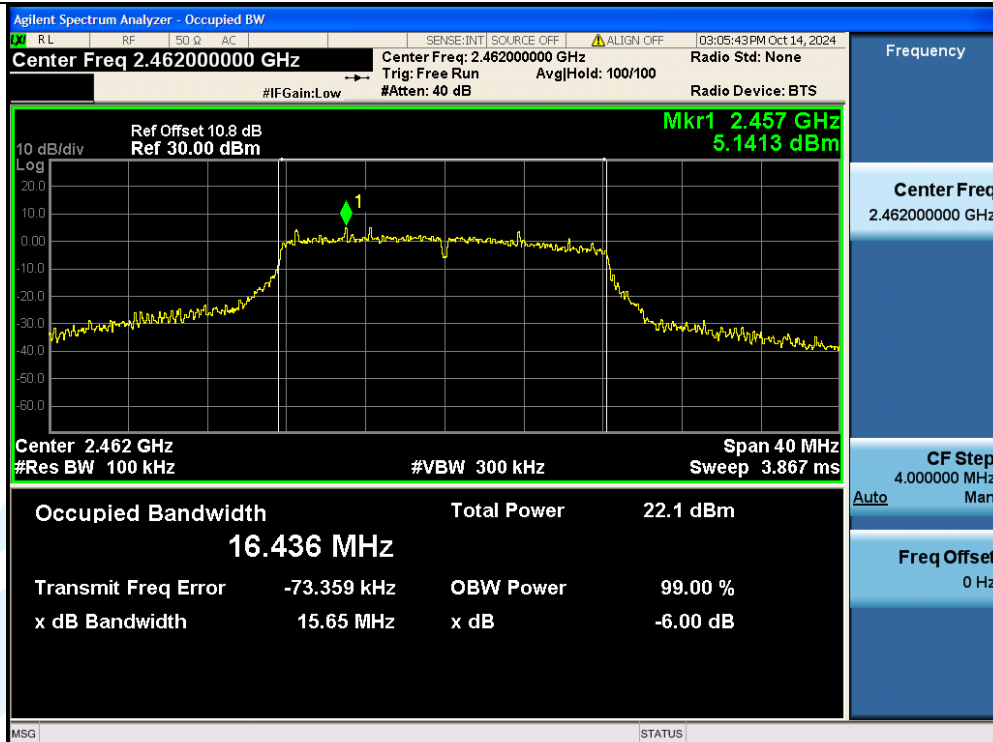
Fax: +86-755-28230886

E-mail: info@uttlab.com

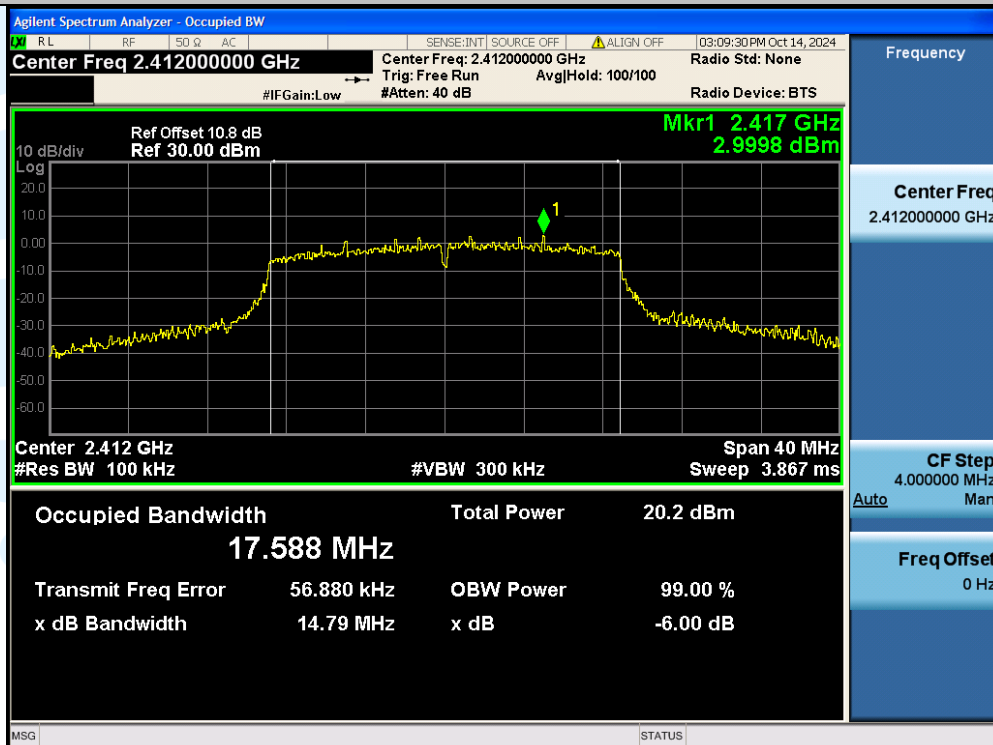
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11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

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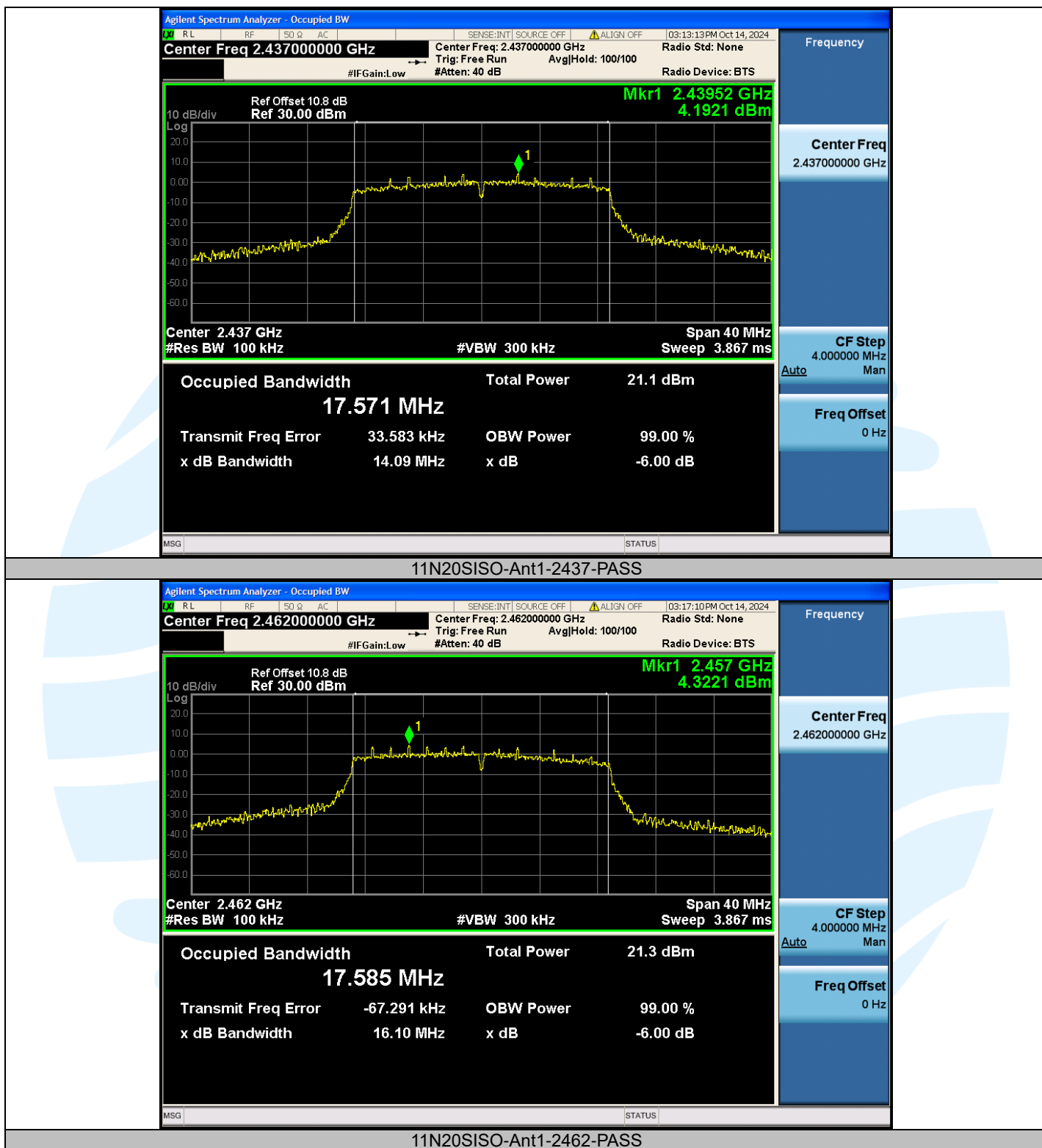
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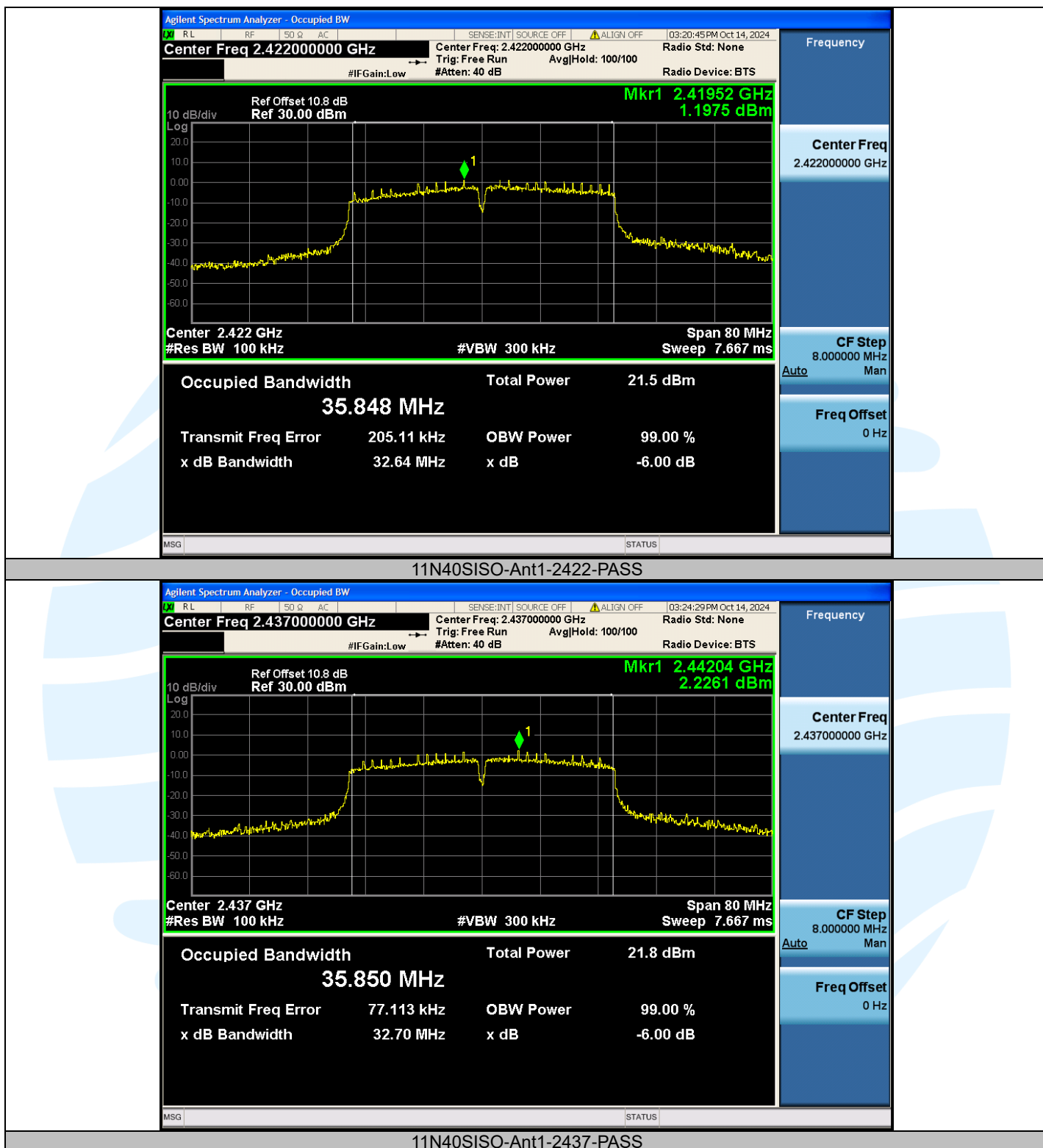
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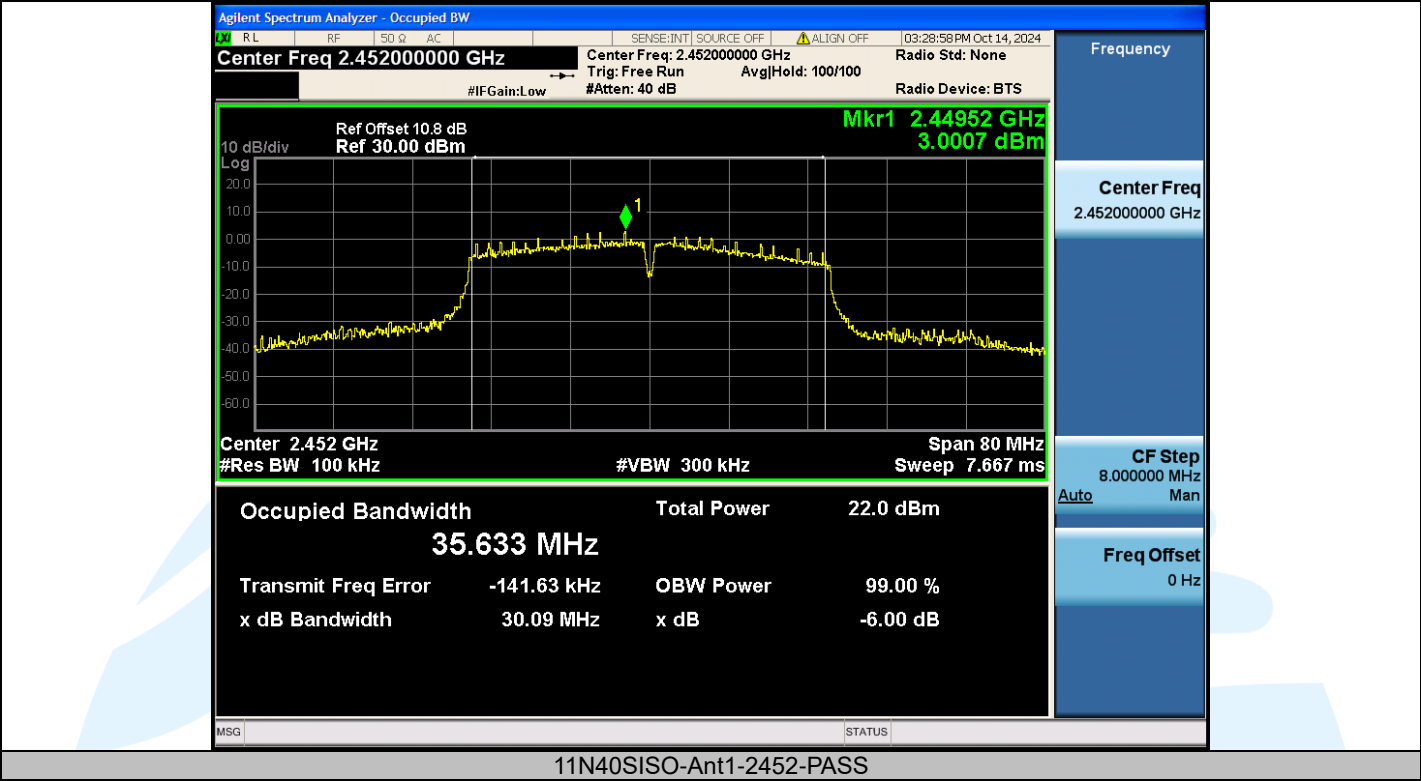
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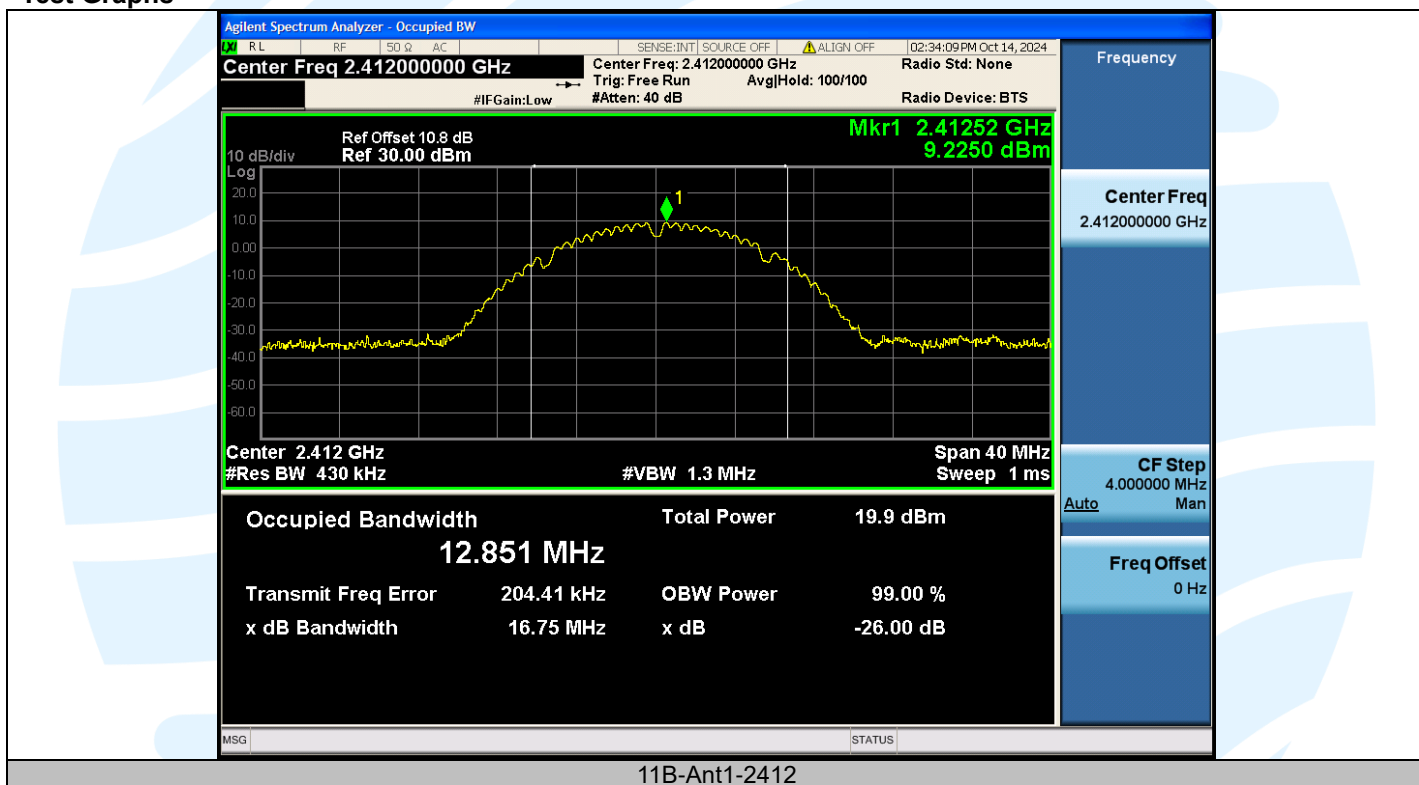
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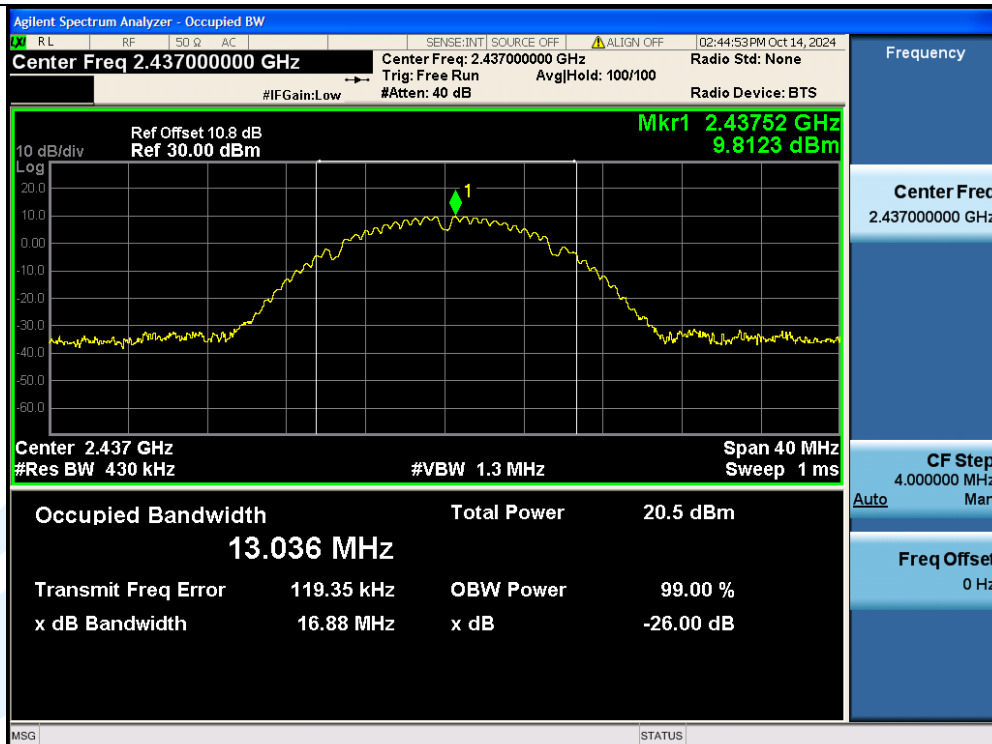
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A.2 OCCUPIED CHANNEL BANDWIDTH

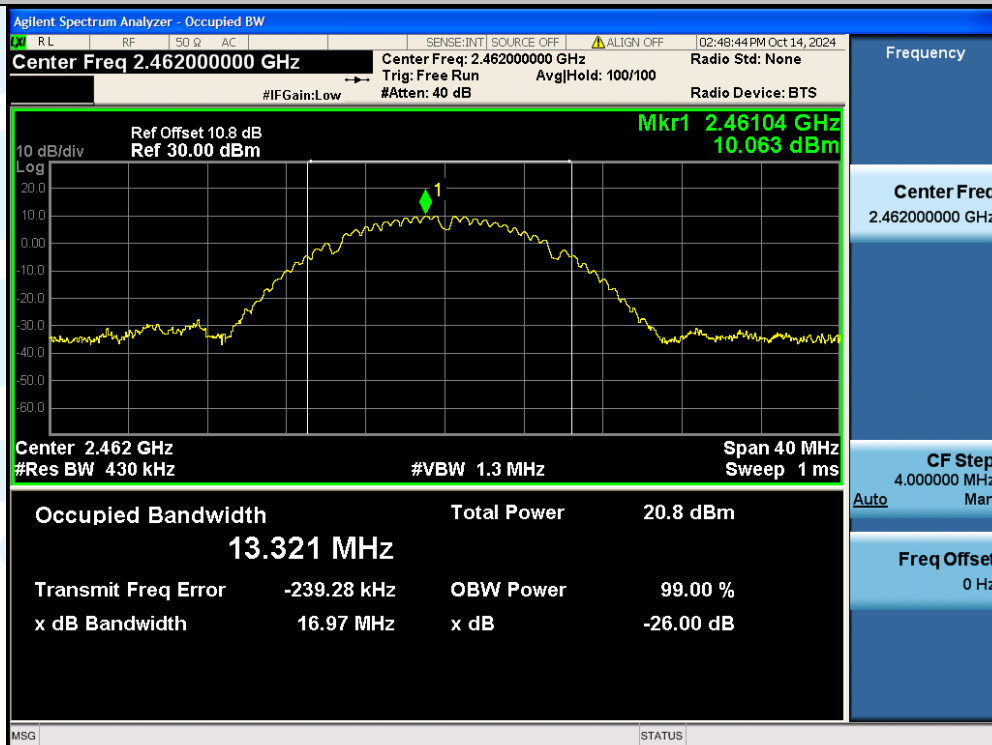
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	12.851	2405.7789	2418.6299	---	---
11B	Ant1	2437	13.036	2430.6014	2443.6374	---	---
11B	Ant1	2462	13.321	2455.1002	2468.4212	---	---
11G	Ant1	2412	17.063	2403.7357	2420.7987	---	---
11G	Ant1	2437	16.961	2428.6321	2445.5931	---	---
11G	Ant1	2462	17.031	2453.2829	2470.3139	---	---
11N20SISO	Ant1	2412	17.932	2403.1820	2421.1140	---	---
11N20SISO	Ant1	2437	17.846	2428.1902	2446.0362	---	---
11N20SISO	Ant1	2462	17.890	2452.9182	2470.8082	---	---
11N40SISO	Ant1	2422	36.124	2404.3055	2440.4295	---	---
11N40SISO	Ant1	2437	36.147	2419.1059	2455.2529	---	---
11N40SISO	Ant1	2452	35.897	2433.8992	2469.7962	---	---

Test Graphs





11B-Ant1-2437



11B-Ant1-2462

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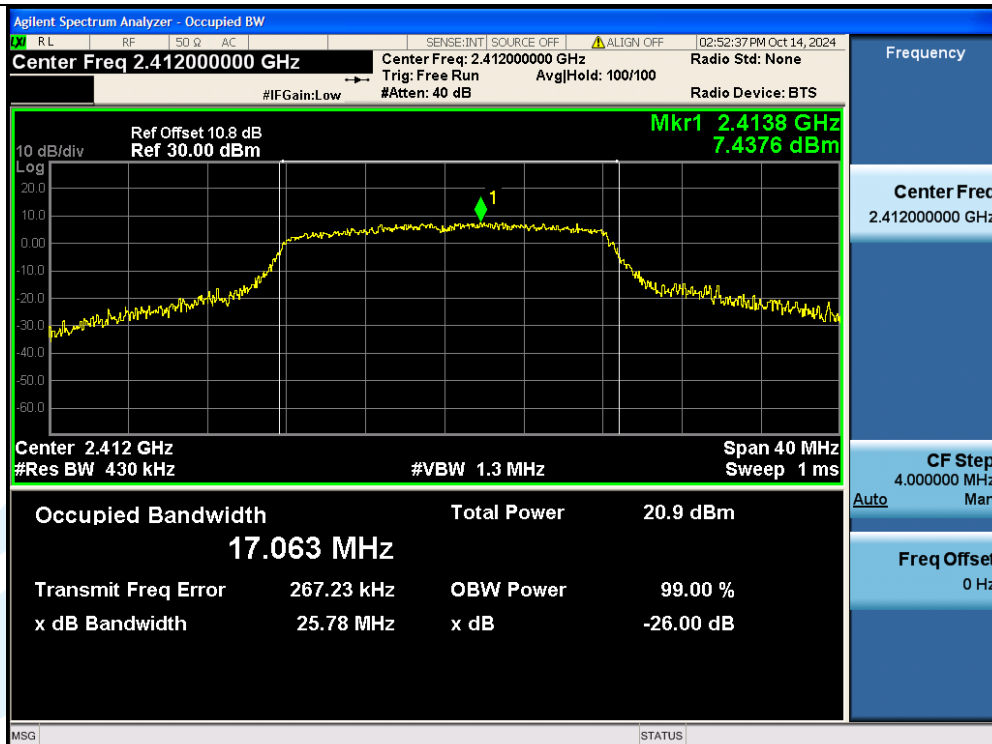
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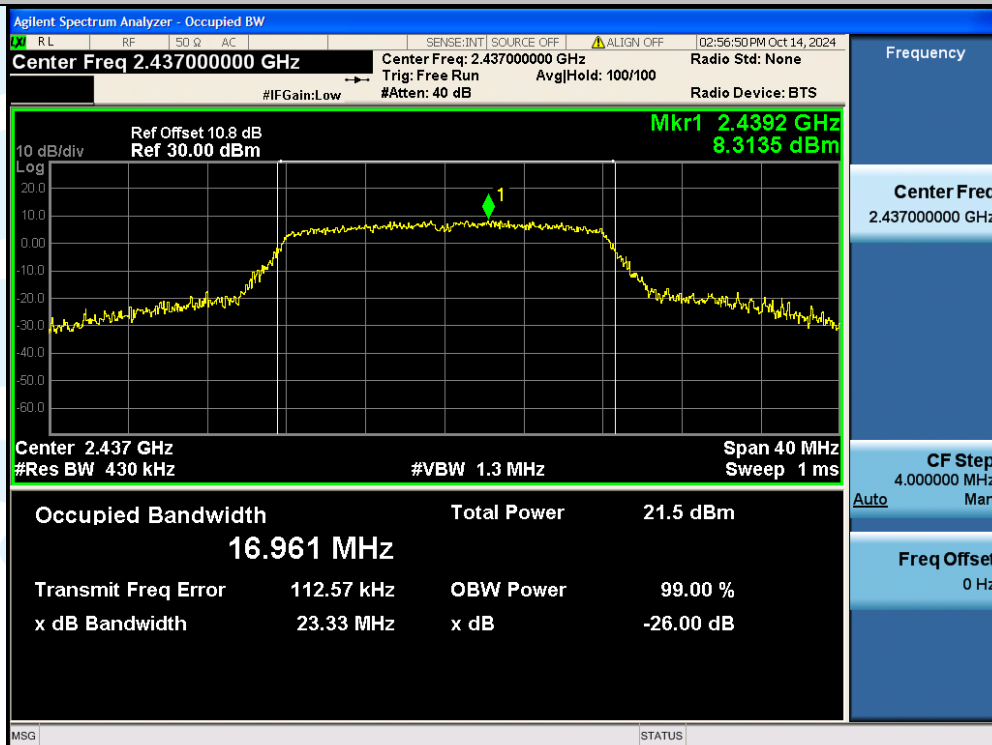
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11G-Ant1-2412



11G-Ant1-2437

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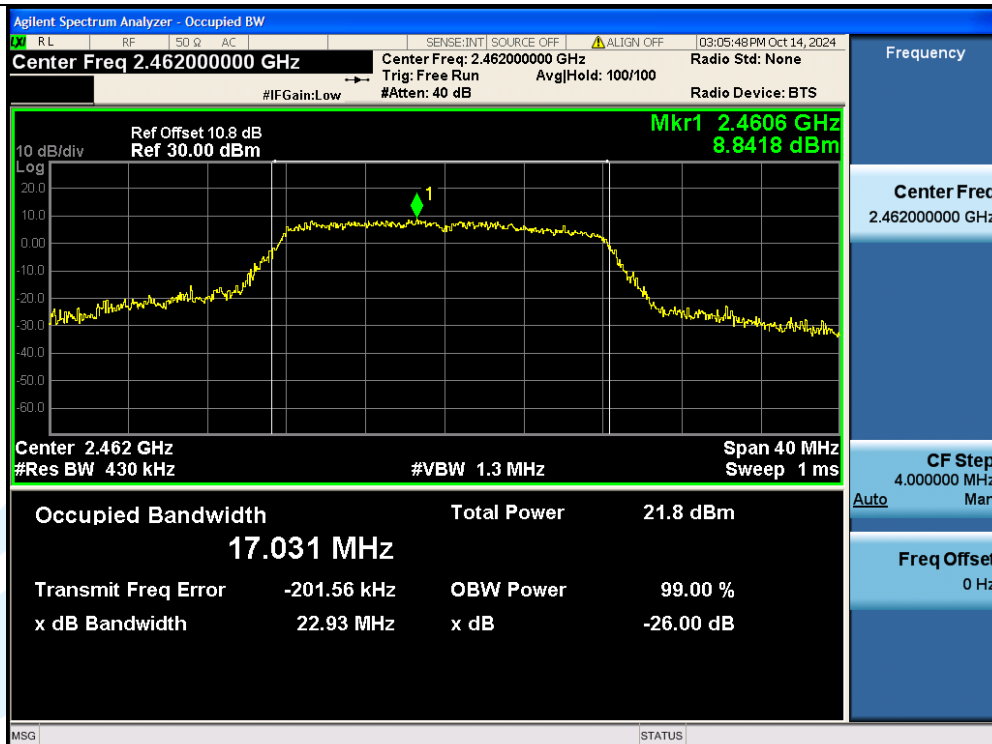
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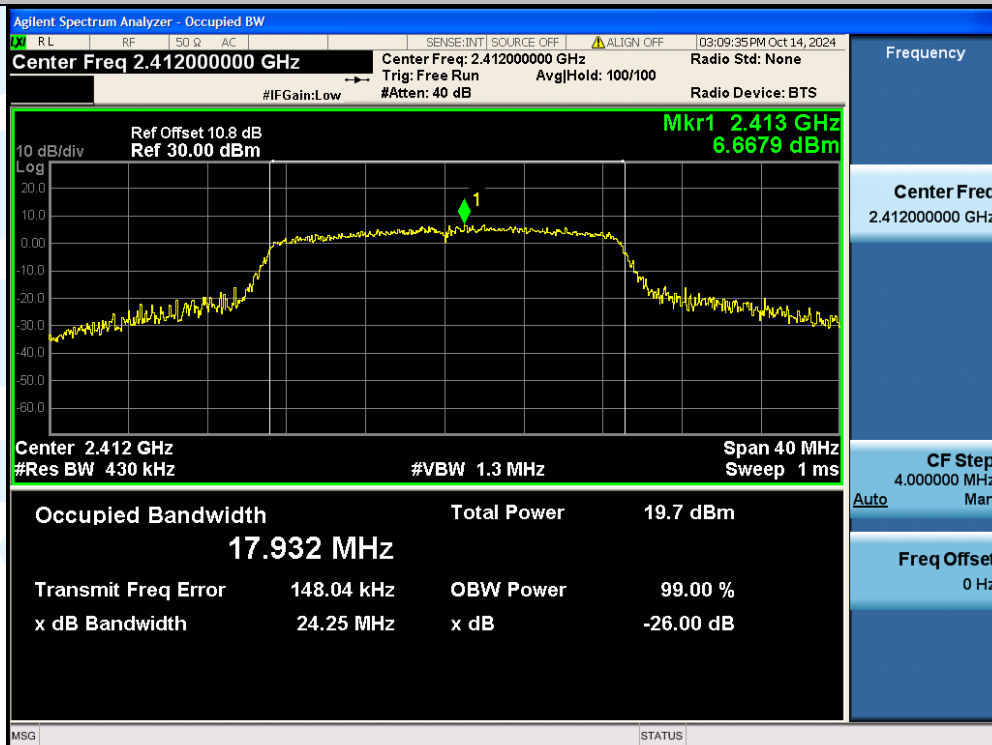
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11G-Ant1-2462



11N20SISO-Ant1-2412

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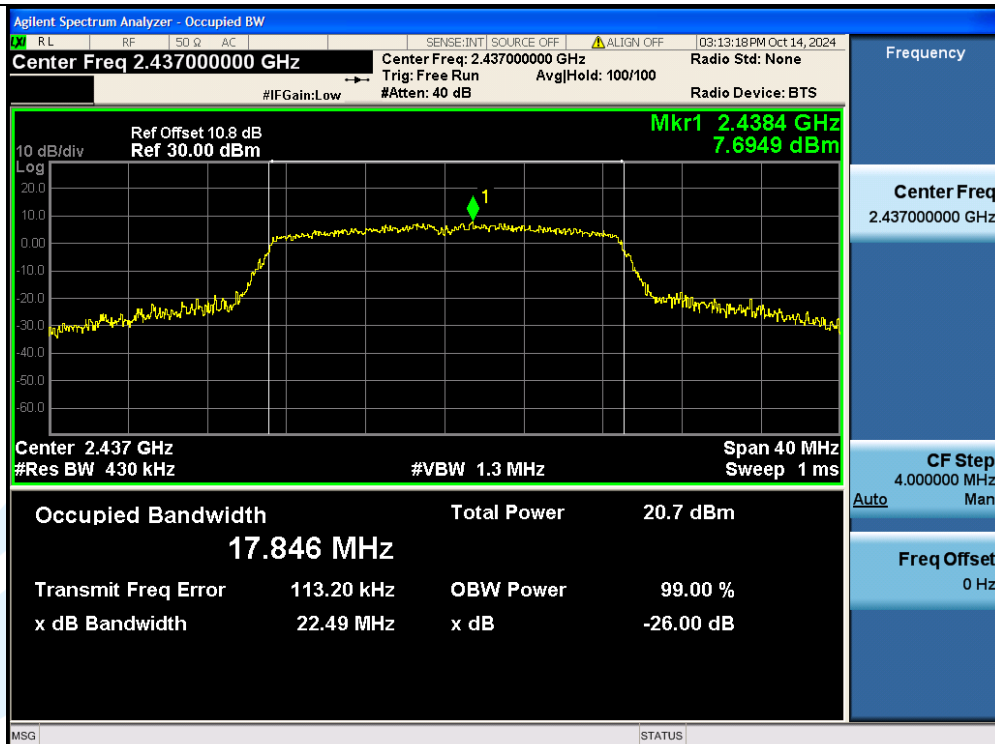
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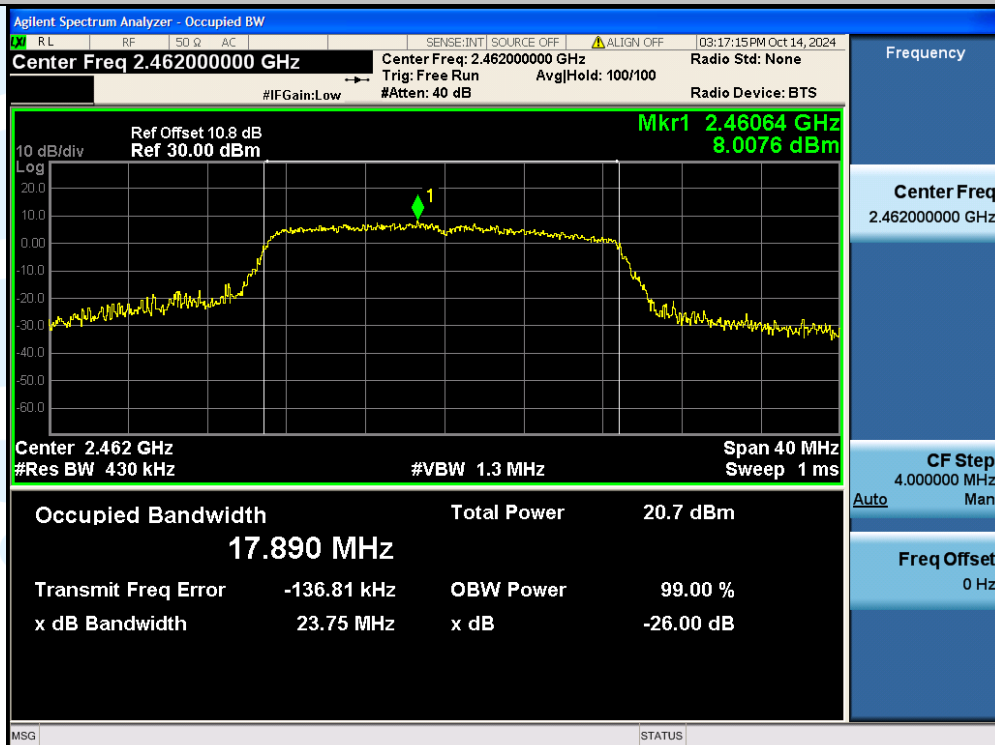
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11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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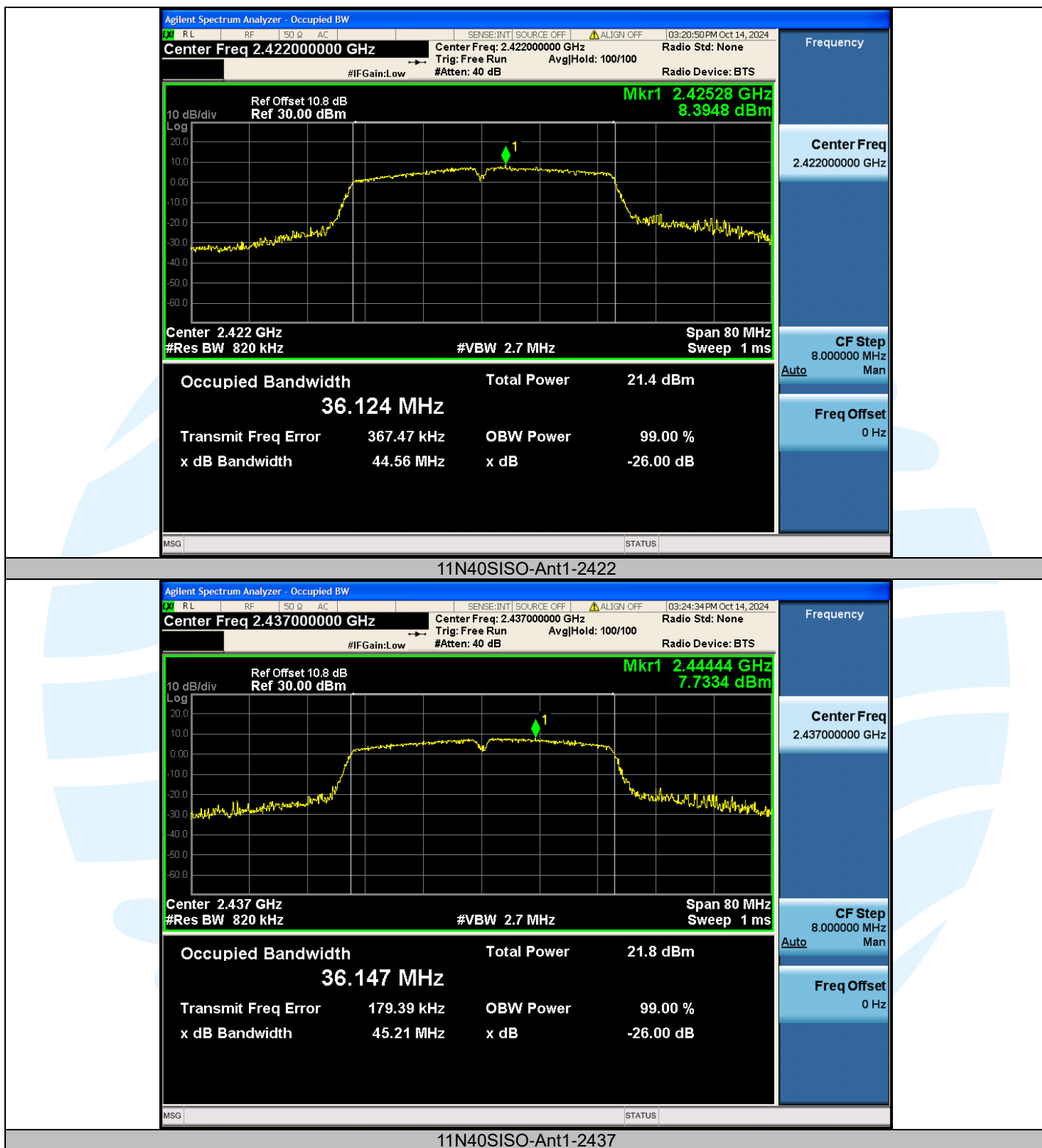
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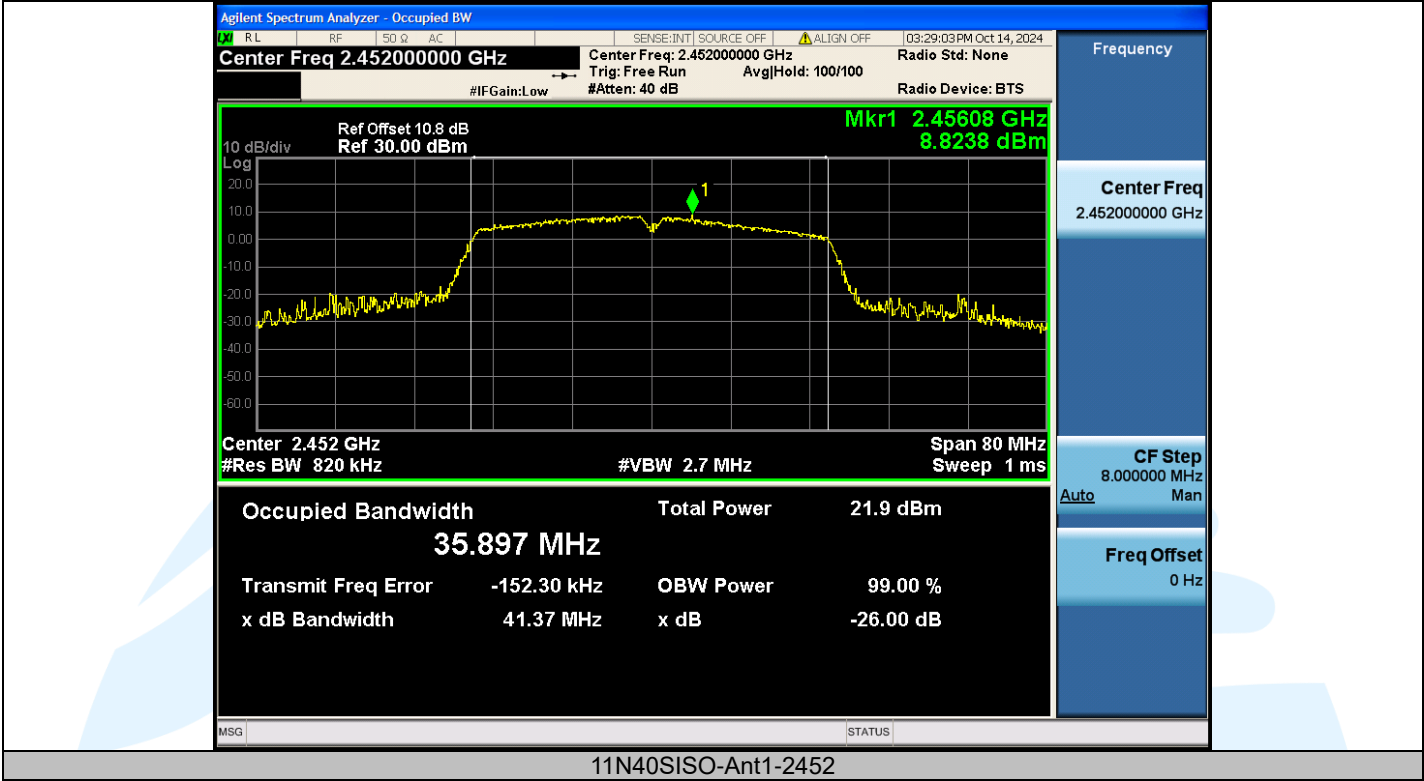
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A.3 MAXIMUM POWER SPECTRAL DENSITY

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.25	≤8.00	PASS
11B	Ant1	2437	-3.90	≤8.00	PASS
11B	Ant1	2462	-4.84	≤8.00	PASS
11G	Ant1	2412	-9.23	≤8.00	PASS
11G	Ant1	2437	-9.06	≤8.00	PASS
11G	Ant1	2462	-8.73	≤8.00	PASS
11N20SISO	Ant1	2412	-10.71	≤8.00	PASS
11N20SISO	Ant1	2437	-9.75	≤8.00	PASS
11N20SISO	Ant1	2462	-9.89	≤8.00	PASS
11N40SISO	Ant1	2422	-11.77	≤8.00	PASS
11N40SISO	Ant1	2437	-12.01	≤8.00	PASS
11N40SISO	Ant1	2452	-11.46	≤8.00	PASS

Test Graphs**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

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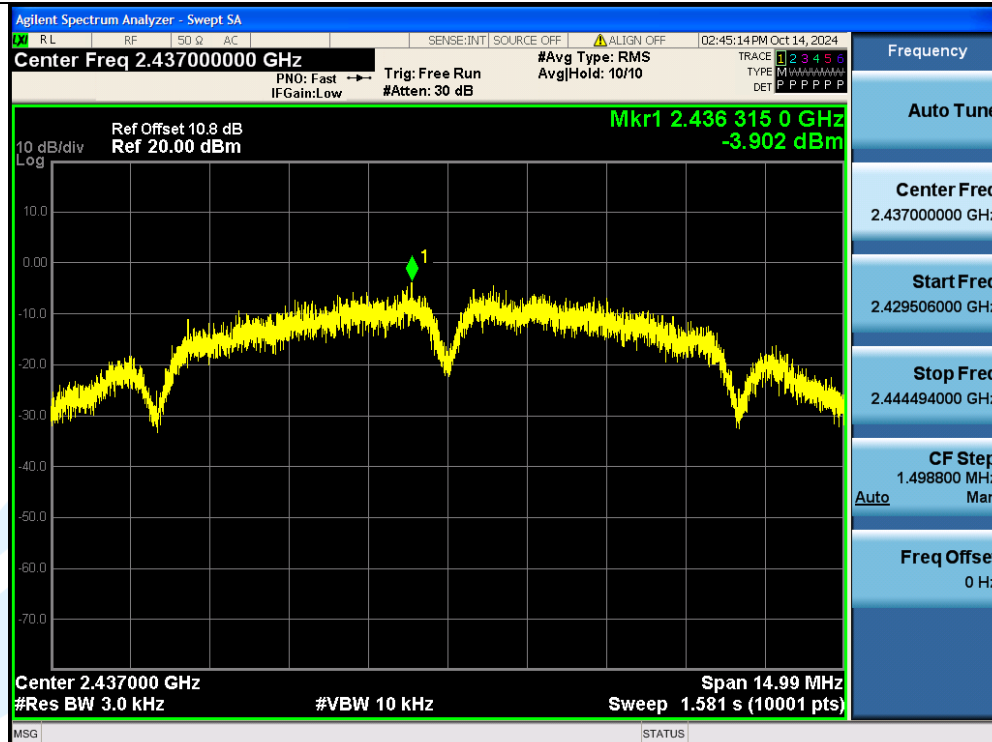
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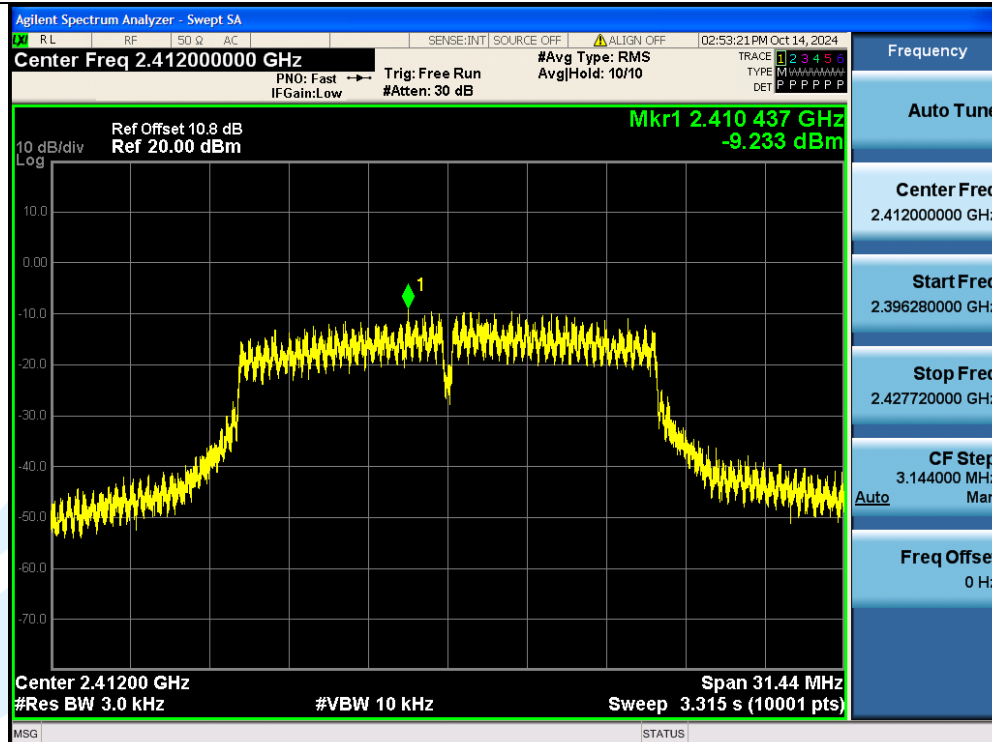
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Fax: +86-755-28230886

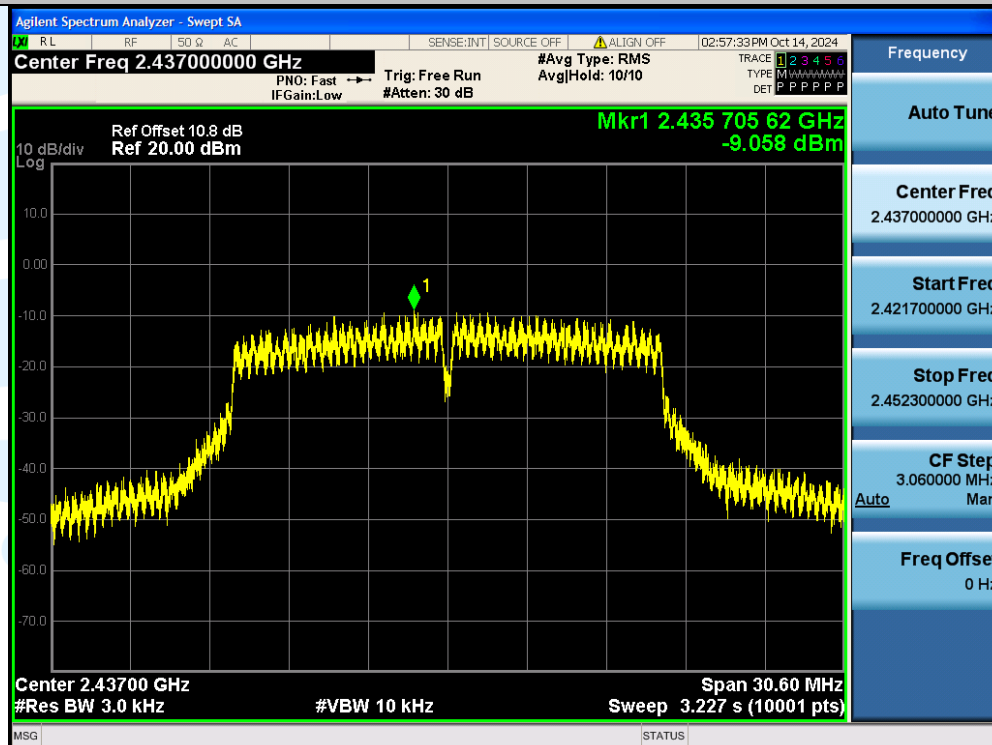
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