

Test Report

Report No.: MTi240809004-01E1

Date of issue: 2024-09-12

Applicant: Shenzhen Mingda Tongda Technology Co., Ltd

Product name: Wireless Carplay

Model(s): A1

FCC ID: 2BKT5-A1

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.cn>

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Test Result Certification	
Applicant:	Shenzhen Mingda Tongda Technology Co., Ltd
Address:	508, Building D, Shunxing Industrial Zone, No. 140 Zhongxing Road, Bantian Street, Longgang District, Shenzhen
Manufacturer:	Shenzhen Mingda Tongda Technology Co., Ltd
Address:	508, Building D, Shunxing Industrial Zone, No. 140 Zhongxing Road, Bantian Street, Longgang District, Shenzhen
Product description	
Product name:	Wireless Carplay
Trademark:	ikos
Model name:	A1
Series Model(s):	N/A
Standards:	47 CFR Part 15.247
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02
Date of Test	
Date of test:	2024-09-05 to 2024-09-12
Test result:	Pass

Test Engineer	:	<i>James Qin</i>
		(James Qin)
Reviewed By	:	<i>David. Lee</i>
		(David Lee)
Approved By	:	<i>Leon Chen</i>
		(Leon Chen)

1 General Description

1.1 Description of the EUT

Product name:	Wireless Carplay
Model name:	A1
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V
Accessories:	N/A
Hardware version:	C08
Software version:	V1.0
Test sample(s) number:	MTi240809004-01S1001
RF specification	
Operating frequency range:	802.11b/g/n(HT20)ax(20MHz): 2412MHz to 2462MHz; 802.11n(HT40) ax(40MHz): 2422MHz to 2452MHz
Channel number:	802.11b/g/n(HT20) ax(20MHz): 11 Channels; 802.11n(HT40) ax(40MHz): 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) 802.11ax(20MHz and 40MHz): OFDMA(BPSK, QPSK, 16QAM, 64QAM)
Antenna(s) type:	PCB
Antenna(s) gain:	-1.22dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-802.11b
Mode2	TX-802.11g
Mode3	TX-802.11N20
Mode4	TX-802.11N40
Mode5	TX-802.11AX20
Mode6	TX-802.11AX40
Note: The EUT only support full RU mode.	

1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442	12	2467
3	2422	8	2447	13	2472
4	2427	9	2452	/	/
5	2432	10	2457	/	/

Test Channel List

Operation Band: 2400-2483.5 MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	2412	2437	2462
40	2422	2437	2452

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software: Putty

For power setting, refer to below table.

Mode	2412MHz	2437MHz	2462MHz
802.11b	default	default	default
802.11g	1	1	1
802.11n 20	1	1	1
802.11ax 20	1	1	1
Mode	2422MHz	2437MHz	2452MHz
802.11n 40	1	1	1
802.11ax 40	1	1	1

1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list			
Description	Model	Serial No.	Manufacturer
Adapter	HW-200200ZP1	/	HUAWEI
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Power Spectral Density, conducted	±1 dB
Unwanted Emissions, conducted	±1 dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

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

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
3	Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
6	RF conducted spurious emissions and band edge measurement	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
7	Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated emissions (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated emissions (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass

3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emission at AC power line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2024-03-20	2025-03-19
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2024-03-21	2025-03-20
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2024-03-20	2025-03-19
Occupied Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03-20	2025-03-19
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2024-03-21	2025-03-20
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2024-03-21	2025-03-20
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2024-03-21	2025-03-20
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2024-03-21	2025-03-20
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2024-03-21	2025-03-20
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2024-03-20	2025-03-19
9	DC Power Supply	Agilent	E3632A	MY40027695	2024-03-21	2025-03-20
Emissions in frequency bands (above 1GHz) Band edge emissions (Radiated)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-06-17	2025-06-16
3	Amplifier	Agilent	8449B	3008A01120	2024-03-20	2025-03-19
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2024-03-21	2025-03-20
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2023-06-17	2025-06-16
7	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2024-03-21	2025-03-20
Emissions in frequency bands (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19

5 Evaluation Results (Evaluation)

5.1 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.
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5.1.1 Conclusion:

The antenna of the EUT is permanently attached.
The EUT complies with the requirement of FCC PART 15.203.

6 Radio Spectrum Matter Test Results (RF)

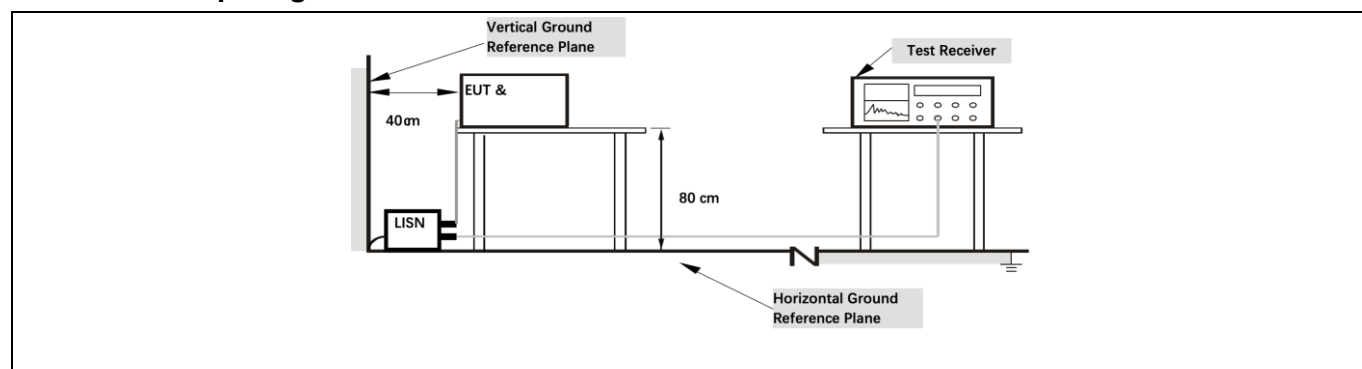
6.1 Conducted Emission at AC power line

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 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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		

6.1.1 E.U.T. Operation:

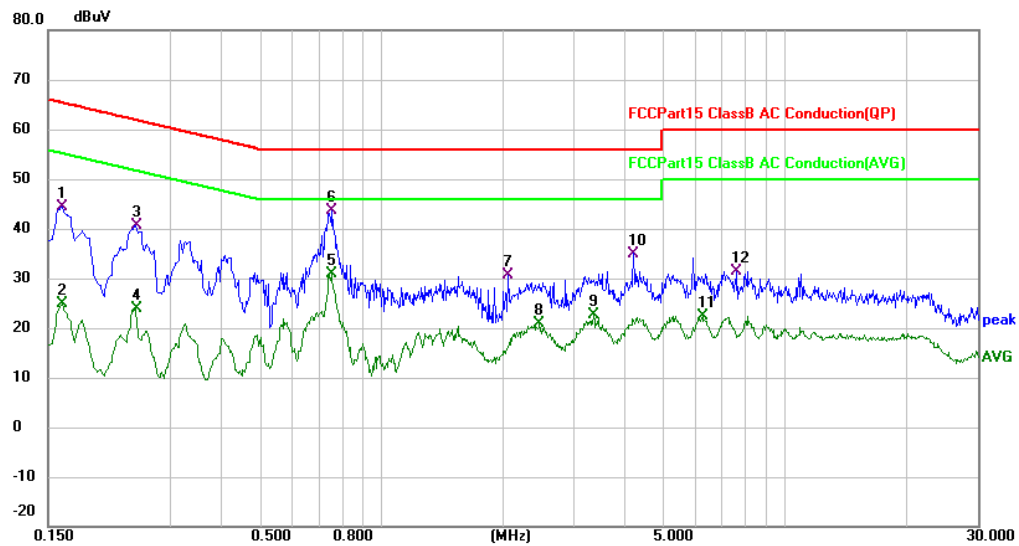
Operating Environment:					
Temperature:	25.9 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				

6.1.2 Test Setup Diagram:



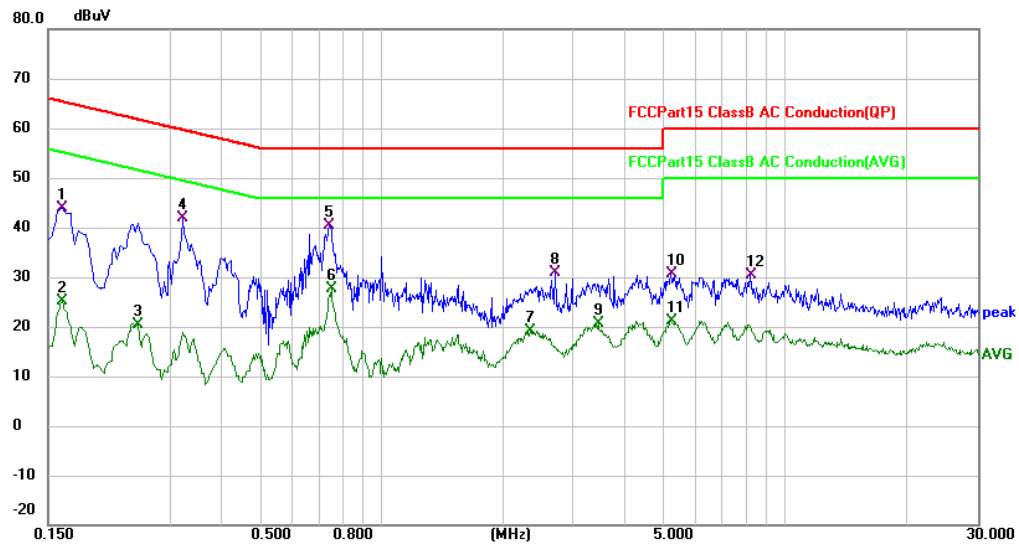
6.1.3 Test Data:

Mode1 / Line: Line / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	34.03	10.30	44.33	65.36	-21.03	QP	
2		0.1620	14.53	10.30	24.83	55.36	-30.53	AVG	
3		0.2460	30.37	10.32	40.69	61.89	-21.20	QP	
4		0.2460	13.44	10.32	23.76	51.89	-28.13	AVG	
5		0.7539	20.32	10.49	30.81	46.00	-15.19	AVG	
6	*	0.7580	33.13	10.49	43.62	56.00	-12.38	QP	
7		2.0579	20.13	10.55	30.68	56.00	-25.32	QP	
8		2.4780	10.34	10.55	20.89	46.00	-25.11	AVG	
9		3.3780	12.02	10.57	22.59	46.00	-23.41	AVG	
10		4.2300	24.44	10.56	35.00	56.00	-21.00	QP	
11		6.2819	11.76	10.60	22.36	50.00	-27.64	AVG	
12		7.6300	20.82	10.63	31.45	60.00	-28.55	QP	

Mode1 / Line: Neutral / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	33.66	10.30	43.96	65.36	-21.40	QP	
2		0.1620	14.74	10.30	25.04	55.36	-30.32	AVG	
3		0.2500	10.15	10.32	20.47	51.76	-31.29	AVG	
4		0.3220	31.41	10.37	41.78	59.66	-17.88	QP	
5	*	0.7460	29.77	10.49	40.26	56.00	-15.74	QP	
6		0.7539	17.09	10.49	27.58	46.00	-18.42	AVG	
7		2.3500	8.48	10.55	19.03	46.00	-26.97	AVG	
8		2.7100	20.31	10.56	30.87	56.00	-25.13	QP	
9		3.4660	10.05	10.57	20.62	46.00	-25.38	AVG	
10		5.2260	20.03	10.58	30.61	60.00	-29.39	QP	
11		5.2260	10.53	10.58	21.11	50.00	-28.89	AVG	
12		8.2260	19.79	10.64	30.43	60.00	-29.57	QP	

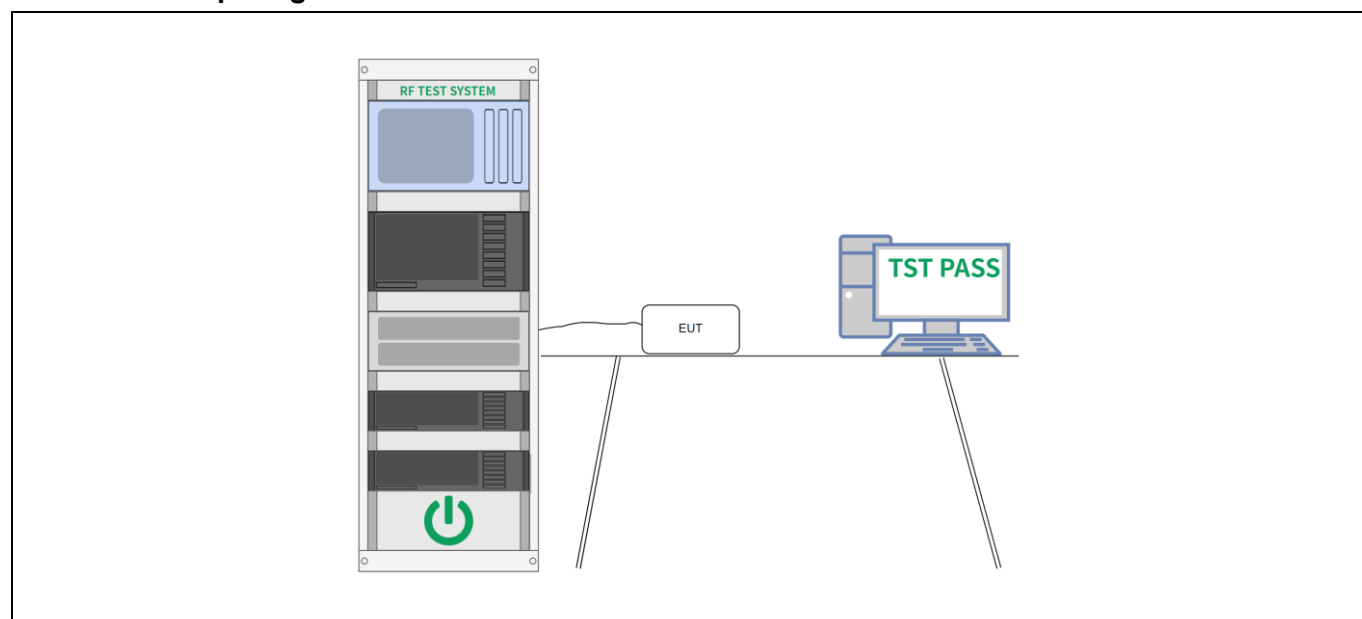
6.2 Occupied Bandwidth

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 $\geq [3 \times \text{RBW}]$. 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.

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.6 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

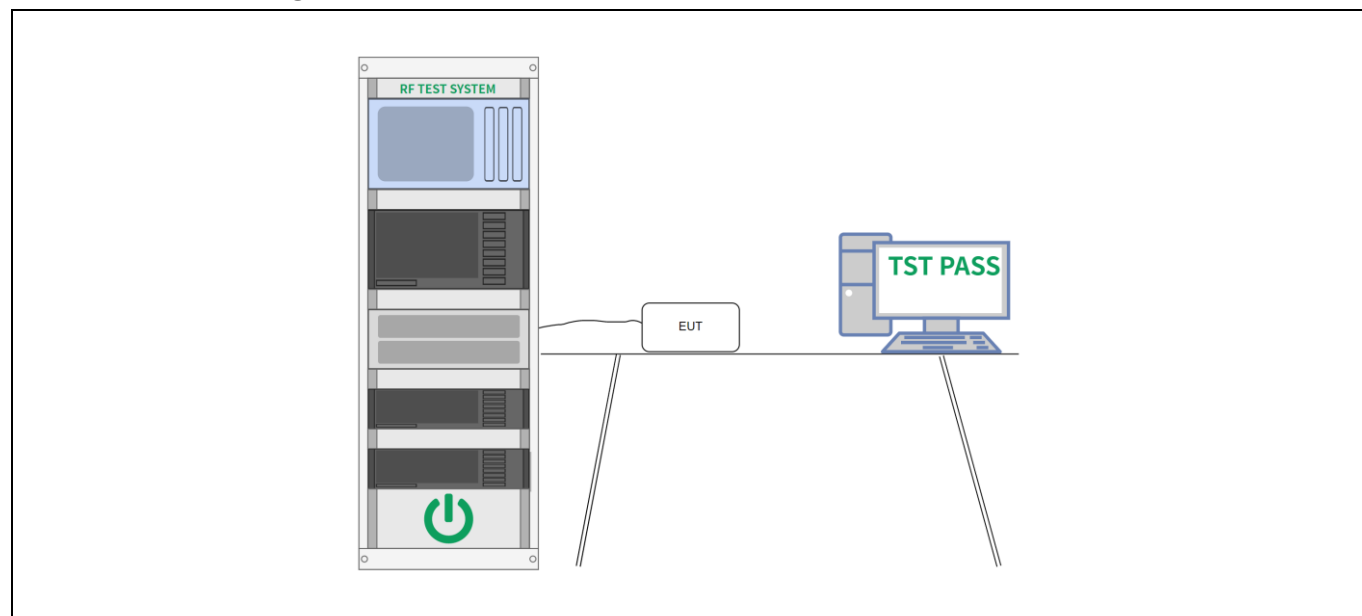
6.3 Maximum Conducted Output Power

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

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.6 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

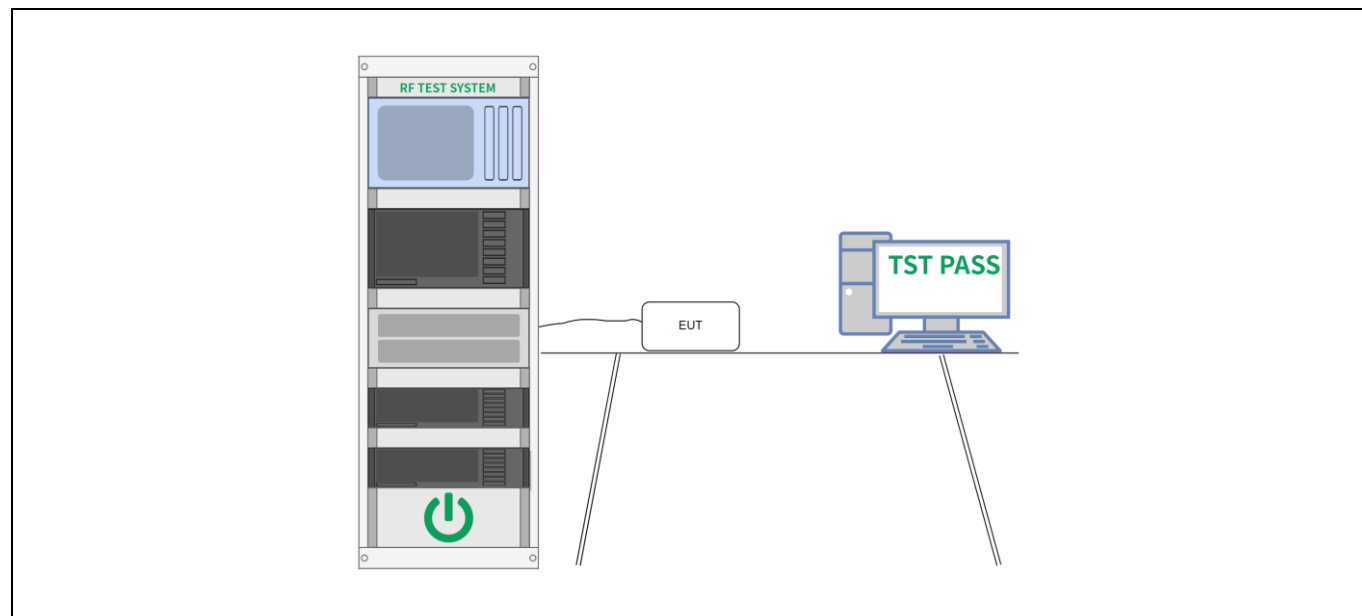
6.4 Power Spectral Density

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

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.6 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

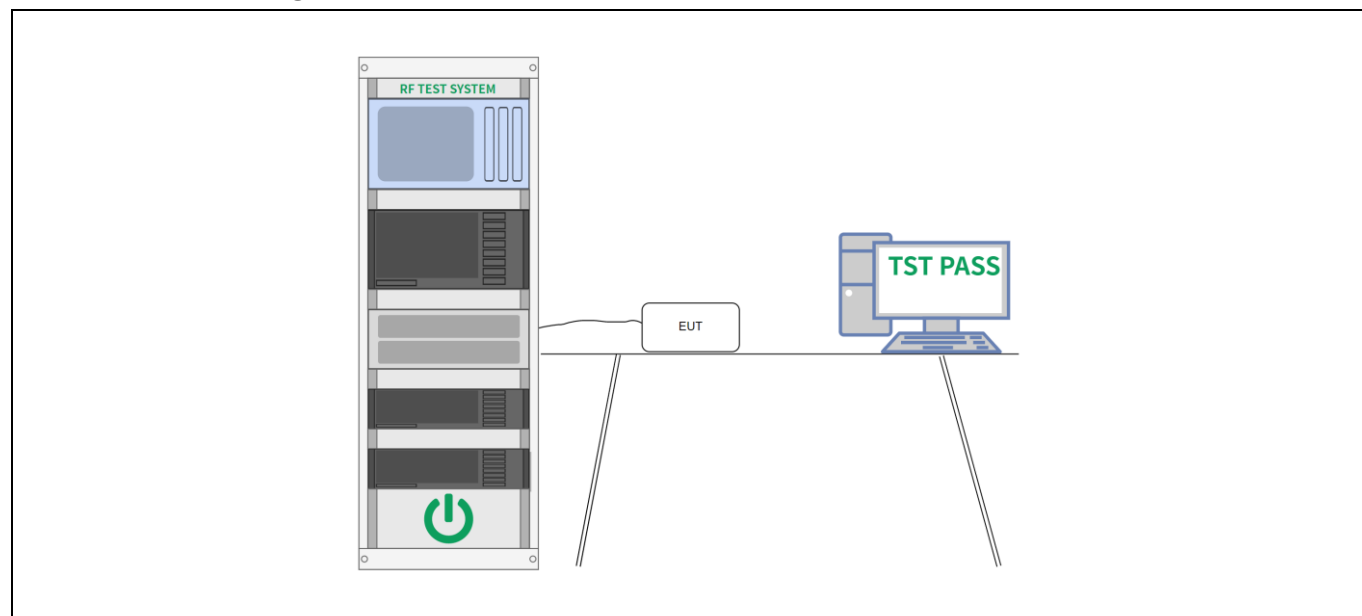
6.5 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 11.11 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

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.6 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

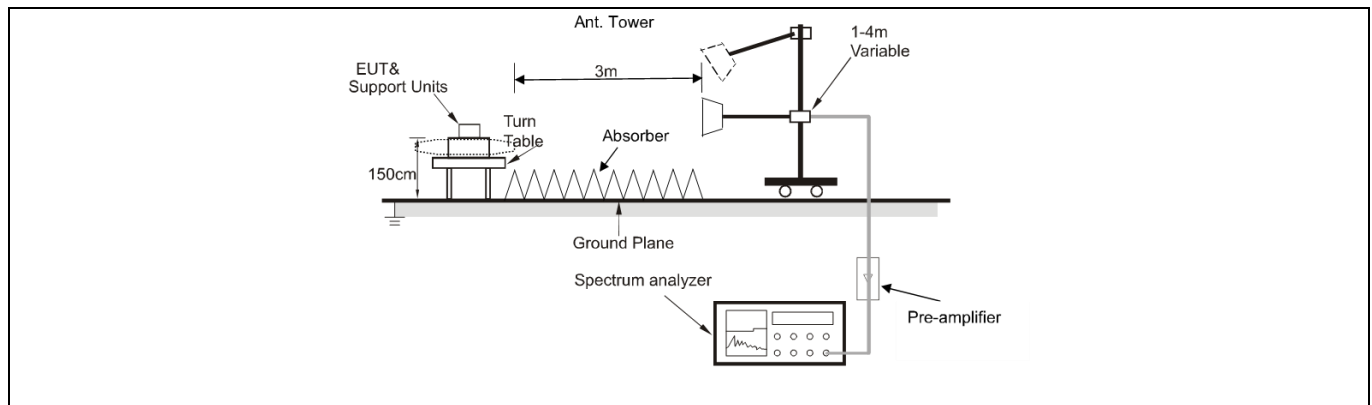
6.6 Band edge emissions (Radiated)

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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
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		

6.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.					

6.6.2 Test Setup Diagram:



6.6.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	50.51	-4.83	45.68	74.00	-28.32	peak
2		2310.000	42.04	-4.83	37.21	54.00	-16.79	AVG
3		2390.000	52.18	-4.31	47.87	74.00	-26.13	peak
4	*	2390.000	43.81	-4.31	39.50	54.00	-14.50	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.01	-4.83	42.18	74.00	-31.82	peak
2		2310.000	38.30	-4.83	33.47	54.00	-20.53	AVG
3		2390.000	47.82	-4.31	43.51	74.00	-30.49	peak
4	*	2390.000	39.09	-4.31	34.78	54.00	-19.22	AVG

Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	47.47	-4.21	43.26	74.00	-30.74	peak
2	*	2483.500	39.19	-4.21	34.98	54.00	-19.02	AVG
3		2500.000	48.39	-4.10	44.29	74.00	-29.71	peak
4		2500.000	38.65	-4.10	34.55	54.00	-19.45	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	48.53	-4.21	44.32	74.00	-29.68	peak
2		2483.500	38.07	-4.21	33.86	54.00	-20.14	AVG
3		2500.000	47.89	-4.10	43.79	74.00	-30.21	peak
4	*	2500.000	38.05	-4.10	33.95	54.00	-20.05	AVG

Mode2 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	50.45	-4.83	45.62	74.00	-28.38	peak
2		2310.000	40.57	-4.83	35.74	54.00	-18.26	AVG
3		2390.000	69.08	-4.31	64.77	74.00	-9.23	peak
4	*	2390.000	53.18	-4.31	48.87	54.00	-5.13	AVG

Mode2 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	48.67	-4.83	43.84	74.00	-30.16	peak
2		2310.000	38.33	-4.83	33.50	54.00	-20.50	AVG
3		2390.000	58.91	-4.31	54.60	74.00	-19.40	peak
4	*	2390.000	44.37	-4.31	40.06	54.00	-13.94	AVG

Mode2 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	69.65	-4.21	65.44	74.00	-8.56	peak
2	*	2483.500	52.52	-4.21	48.31	54.00	-5.69	AVG
3		2500.000	57.27	-4.10	53.17	74.00	-20.83	peak
4		2500.000	40.08	-4.10	35.98	54.00	-18.02	AVG

Mode2 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	61.92	-4.21	57.71	74.00	-16.29	peak
2	*	2483.500	45.24	-4.21	41.03	54.00	-12.97	AVG
3		2500.000	51.27	-4.10	47.17	74.00	-26.83	peak
4		2500.000	38.75	-4.10	34.65	54.00	-19.35	AVG

Mode3 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	50.48	-4.83	45.65	74.00	-28.35	peak
2		2310.000	40.40	-4.83	35.57	54.00	-18.43	AVG
3	*	2390.000	74.73	-4.31	70.42	74.00	-3.58	peak
4		2390.000	54.48	-4.31	50.17	54.00	-3.83	AVG

Mode3 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.99	-4.83	43.16	74.00	-30.84	peak
2		2310.000	38.20	-4.83	33.37	54.00	-20.63	AVG
3		2390.000	64.50	-4.31	60.19	74.00	-13.81	peak
4	*	2390.000	45.34	-4.31	41.03	54.00	-12.97	AVG

Mode3 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	2483.500	63.63	-4.21	59.42	74.00	-14.58	peak
2		2483.500	40.83	-4.21	36.62	54.00	-17.38	AVG
3		2500.000	53.99	-4.10	49.89	74.00	-24.11	peak
4		2500.000	38.76	-4.10	34.66	54.00	-19.34	AVG

Mode3 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	2483.500	68.16	-4.21	63.95	74.00	-10.05	peak
2		2483.500	46.68	-4.21	42.47	54.00	-11.53	AVG
3		2500.000	50.61	-4.10	46.51	74.00	-27.49	peak
4		2500.000	38.73	-4.10	34.63	54.00	-19.37	AVG

Mode4 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	49.24	-4.83	44.41	74.00	-29.59	peak
2		2310.000	39.53	-4.83	34.70	54.00	-19.30	AVG
3		2390.000	60.27	-4.31	55.96	74.00	-18.04	peak
4	*	2390.000	47.46	-4.31	43.15	54.00	-10.85	AVG

Mode4 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.92	-4.83	43.09	74.00	-30.91	peak
2		2310.000	38.07	-4.83	33.24	54.00	-20.76	AVG
3		2390.000	51.80	-4.31	47.49	74.00	-26.51	peak
4	*	2390.000	40.32	-4.31	36.01	54.00	-17.99	AVG

Mode4 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	58.83	-4.21	54.62	74.00	-19.38	peak
2	*	2483.500	44.36	-4.21	40.15	54.00	-13.85	AVG
3		2500.000	49.78	-4.10	45.68	74.00	-28.32	peak
4		2500.000	39.34	-4.10	35.24	54.00	-18.76	AVG

Mode4 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	52.09	-4.21	47.88	74.00	-26.12	peak
2	*	2483.500	39.90	-4.21	35.69	54.00	-18.31	AVG
3		2500.000	48.07	-4.10	43.97	74.00	-30.03	peak
4		2500.000	38.36	-4.10	34.26	54.00	-19.74	AVG

Mode5 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	50.31	-4.83	45.48	74.00	-28.52	peak
2		2310.000	39.51	-4.83	34.68	54.00	-19.32	AVG
3		2390.000	60.16	-4.31	55.85	74.00	-18.15	peak
4	*	2390.000	43.94	-4.31	39.63	54.00	-14.37	AVG

Mode5 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.52	-4.83	42.69	74.00	-31.31	peak
2		2310.000	37.83	-4.83	33.00	54.00	-21.00	AVG
3		2390.000	49.76	-4.31	45.45	74.00	-28.55	peak
4	*	2390.000	38.58	-4.31	34.27	54.00	-19.73	AVG

Mode5 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	56.35	-4.21	52.14	74.00	-21.86	peak
2	*	2483.500	38.79	-4.21	34.58	54.00	-19.42	AVG
3		2500.000	49.42	-4.10	45.32	74.00	-28.68	peak
4		2500.000	38.32	-4.10	34.22	54.00	-19.78	AVG

Mode5 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	2483.500	63.69	-4.21	59.48	74.00	-14.52	peak
2		2483.500	41.91	-4.21	37.70	54.00	-16.30	AVG
3		2500.000	53.96	-4.10	49.86	74.00	-24.14	peak
4		2500.000	38.80	-4.10	34.70	54.00	-19.30	AVG

Mode6 / Polarization: Horizontal / CH: L

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	2310.000	46.43	-4.83	41.60	74.00	-32.40	peak
2	2310.000	36.74	-4.83	31.91	54.00	-22.09	AVG
3	2390.000	57.36	-4.31	53.05	74.00	-20.95	peak
4 *	2390.000	45.48	-4.31	41.17	54.00	-12.83	AVG

Mode6 / Polarization: Vertical / CH: L

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	2310.000	44.91	-4.83	40.08	74.00	-33.92	peak
2	2310.000	34.65	-4.83	29.82	54.00	-24.18	AVG
3	2390.000	50.30	-4.31	45.99	74.00	-28.01	peak
4 *	2390.000	39.07	-4.31	34.76	54.00	-19.24	AVG

Mode6 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	51.20	-4.21	46.99	74.00	-27.01	peak
2	*	2483.500	39.25	-4.21	35.04	54.00	-18.96	AVG
3		2500.000	48.52	-4.10	44.42	74.00	-29.58	peak
4		2500.000	38.30	-4.10	34.20	54.00	-19.80	AVG

Mode6 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	58.71	-4.21	54.50	74.00	-19.50	peak
2	*	2483.500	43.78	-4.21	39.57	54.00	-14.43	AVG
3		2500.000	51.83	-4.10	47.73	74.00	-26.27	peak
4		2500.000	39.62	-4.10	35.52	54.00	-18.48	AVG

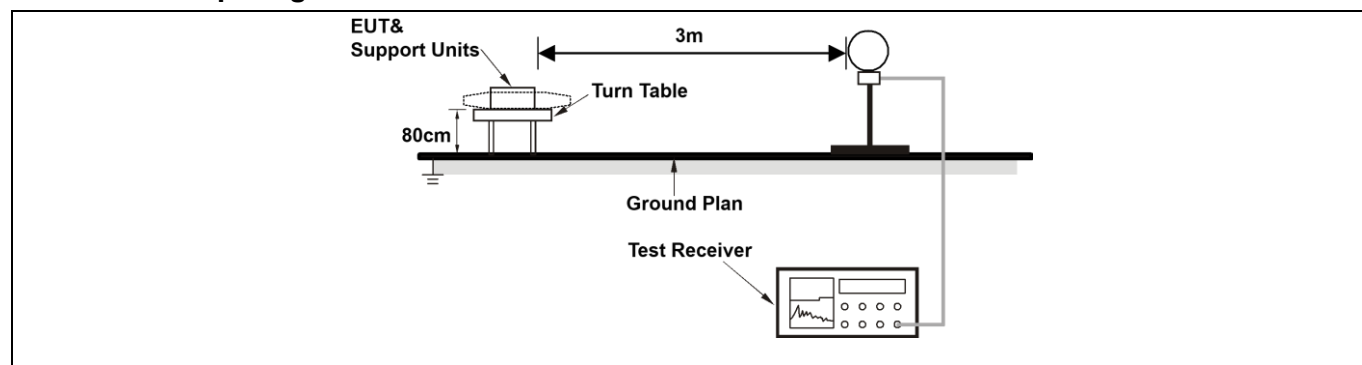
6.7 Radiated emissions (below 1GHz)

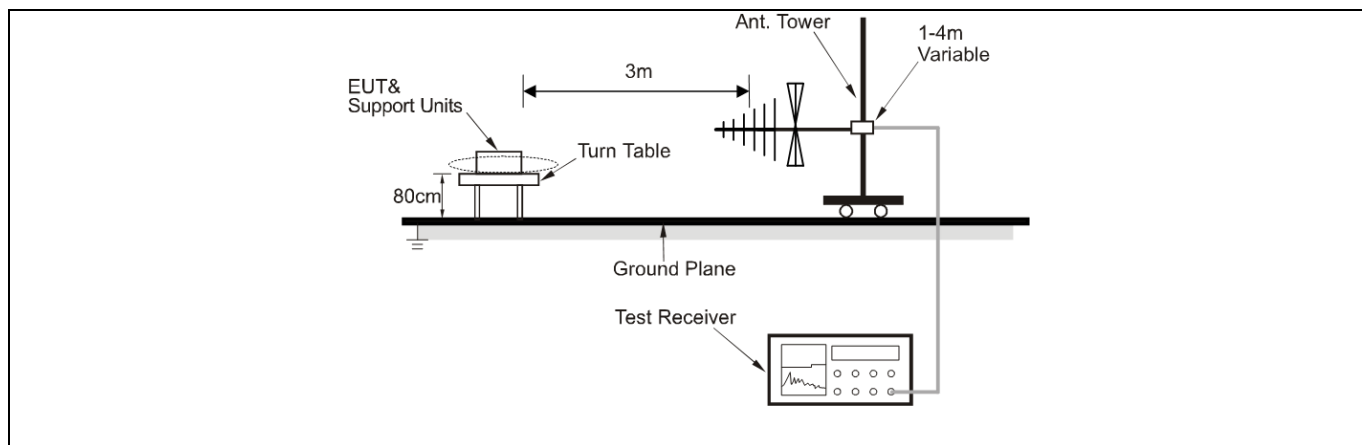
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
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		

6.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.					

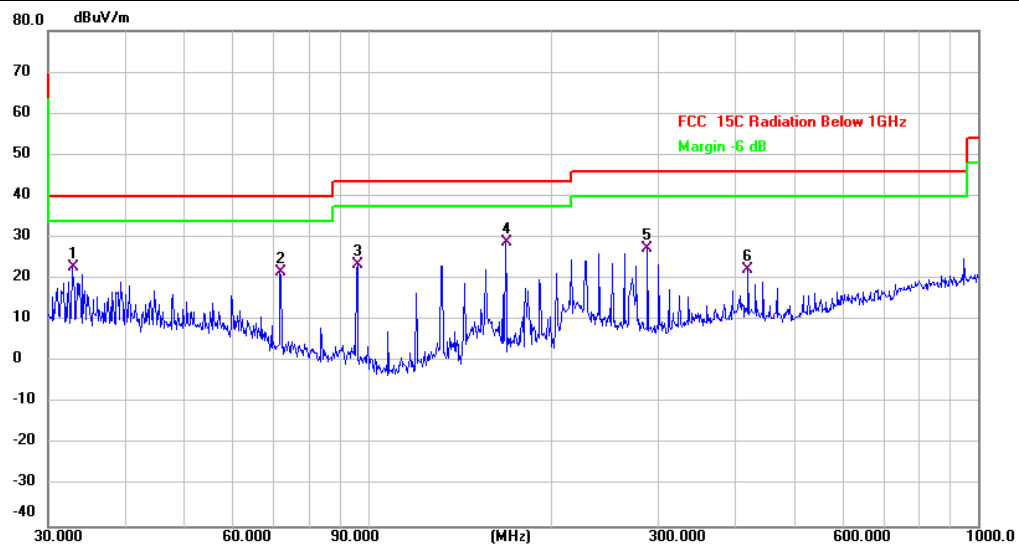
6.7.2 Test Setup Diagram:





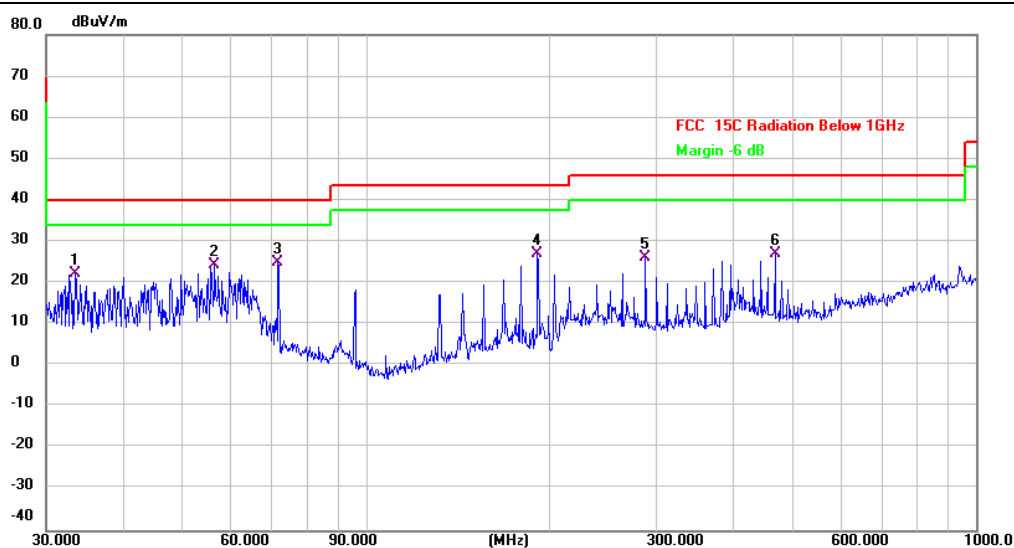
6.7.3 Test Data:

Mode1 / Polarization: Horizontal / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		32.8637	37.06	-14.28	22.78	40.00	-17.22	QP	
2		71.8320	43.37	-21.68	21.69	40.00	-18.31	QP	
3		96.0986	48.18	-24.66	23.52	43.50	-19.98	QP	
4	*	167.8243	49.27	-20.36	28.91	43.50	-14.59	QP	
5		287.9904	43.34	-15.96	27.38	46.00	-18.62	QP	
6		420.5803	35.28	-13.17	22.11	46.00	-23.89	QP	

Mode1 / Polarization: Vertical / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		33.4449	47.22	-25.10	22.12	40.00	-17.88	QP	
2		56.5929	45.79	-21.42	24.37	40.00	-15.63	QP	
3	*	71.8320	43.94	-18.92	25.02	40.00	-14.98	QP	
4		191.7450	46.15	-19.21	26.94	43.50	-16.56	QP	
5		287.9904	42.43	-16.20	26.23	46.00	-19.77	QP	
6		468.8762	41.03	-13.88	27.15	46.00	-18.85	QP	

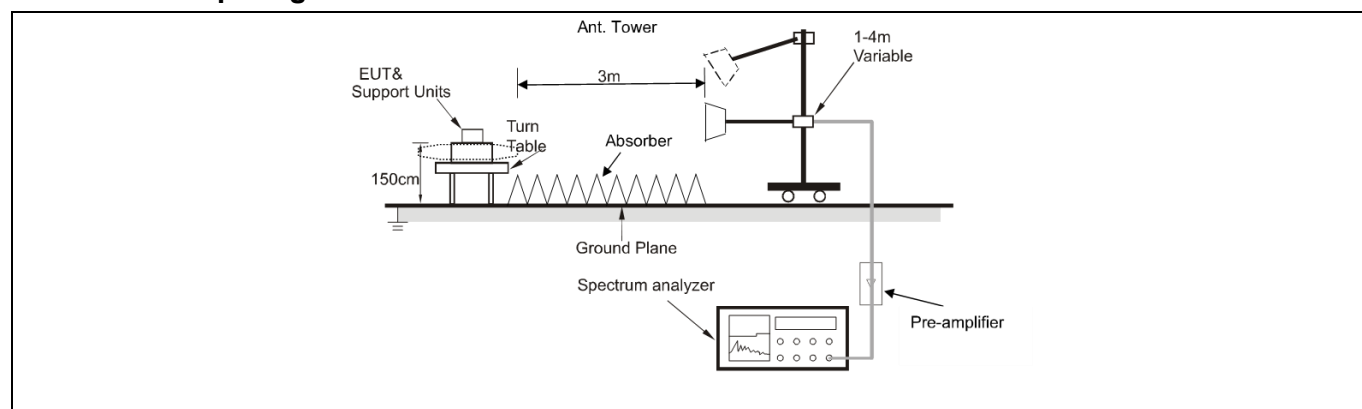
6.8 Radiated emissions (above 1GHz)

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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
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		

6.8.1 E.U.T. Operation:

Operating Environment:						
Temperature:	24 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode1, Mode2, Mode3, Mode4, Mode5, Mode6				
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				
Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported.						

6.8.2 Test Setup Diagram:



6.8.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4824.000	53.12	0.52	53.64	74.00	-20.36	peak
2		4824.000	45.05	0.52	45.57	54.00	-8.43	AVG
3		7236.000	47.54	7.63	55.17	74.00	-18.83	peak
4	*	7236.000	40.02	7.63	47.65	54.00	-6.35	AVG
5		9648.000	44.89	8.99	53.88	74.00	-20.12	peak
6		9648.000	36.70	8.99	45.69	54.00	-8.31	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4824.000	49.46	0.52	49.98	74.00	-24.02	peak
2		4824.000	41.16	0.52	41.68	54.00	-12.32	AVG
3		7236.000	45.56	7.63	53.19	74.00	-20.81	peak
4		7236.000	38.05	7.63	45.68	54.00	-8.32	AVG
5		9648.000	45.99	8.99	54.98	74.00	-19.02	peak
6	*	9648.000	37.96	8.99	46.95	54.00	-7.05	AVG

Mode1 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4874.000	51.47	0.55	52.02	74.00	-21.98	peak
2		4874.000	44.71	0.55	45.26	54.00	-8.74	AVG
3		7311.000	43.41	7.46	50.87	74.00	-23.13	peak
4		7311.000	34.92	7.46	42.38	54.00	-11.62	AVG
5		9748.000	45.47	9.32	54.79	74.00	-19.21	peak
6	*	9748.000	37.15	9.32	46.47	54.00	-7.53	AVG

Mode1 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4874.000	47.69	0.55	48.24	74.00	-25.76	peak
2		4874.000	39.81	0.55	40.36	54.00	-13.64	AVG
3		7311.000	44.02	7.46	51.48	74.00	-22.52	peak
4		7311.000	36.19	7.46	43.65	54.00	-10.35	AVG
5		9748.000	44.76	9.32	54.08	74.00	-19.92	peak
6	*	9748.000	37.25	9.32	46.57	54.00	-7.43	AVG

Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4924.000	50.21	0.59	50.80	74.00	-23.20	peak
2		4924.000	41.77	0.59	42.36	54.00	-11.64	AVG
3		7386.000	46.34	7.93	54.27	74.00	-19.73	peak
4	*	7386.000	38.72	7.93	46.65	54.00	-7.35	AVG
5		9848.000	44.72	9.00	53.72	74.00	-20.28	peak
6		9848.000	36.59	9.00	45.59	54.00	-8.41	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4924.000	47.18	0.59	47.77	74.00	-26.23	peak
2		4924.000	39.06	0.59	39.65	54.00	-14.35	AVG
3		7386.000	44.81	7.93	52.74	74.00	-21.26	peak
4		7386.000	36.45	7.93	44.38	54.00	-9.62	AVG
5		9848.000	44.89	9.00	53.89	74.00	-20.11	peak
6	*	9848.000	36.69	9.00	45.69	54.00	-8.31	AVG

Photographs of the test setup

Refer to Appendix - Test Setup Photos

Photographs of the EUT

Refer to Appendix - EUT Photos

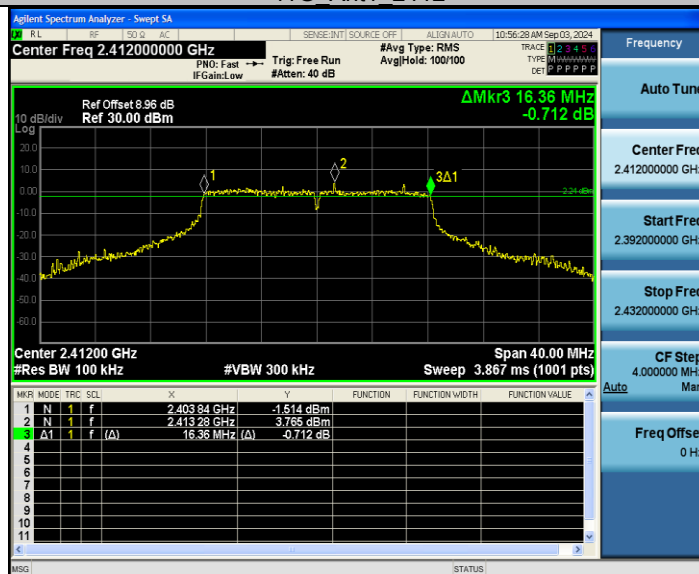
Appendix

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	7.080	0.5	PASS
		2437	7.520	0.5	PASS
		2462	8.040	0.5	PASS
11G	Ant1	2412	16.360	0.5	PASS
		2437	16.320	0.5	PASS
		2462	16.320	0.5	PASS
11N20SISO	Ant1	2412	17.600	0.5	PASS
		2437	17.560	0.5	PASS
		2462	17.360	0.5	PASS
11N40SISO	Ant1	2422	36.320	0.5	PASS
		2437	36.320	0.5	PASS
		2452	36.320	0.5	PASS
11AX20SISO	Ant1	2412	18.920	0.5	PASS
		2437	18.720	0.5	PASS
		2462	18.440	0.5	PASS
11AX40SISO	Ant1	2422	37.840	0.5	PASS
		2437	37.920	0.5	PASS
		2452	37.680	0.5	PASS

11G Ant1 2412



11G Ant1 2437



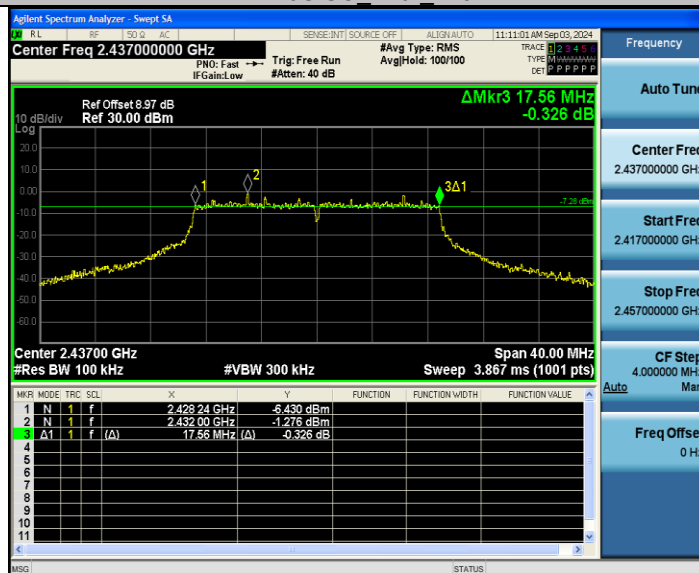
11G Ant1 2462



11N20SISO Ant1 2412



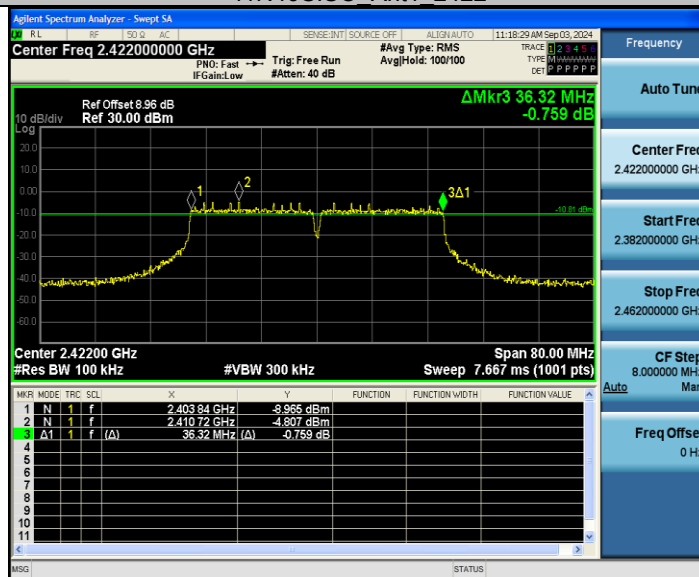
11N20SISO Ant1 2437



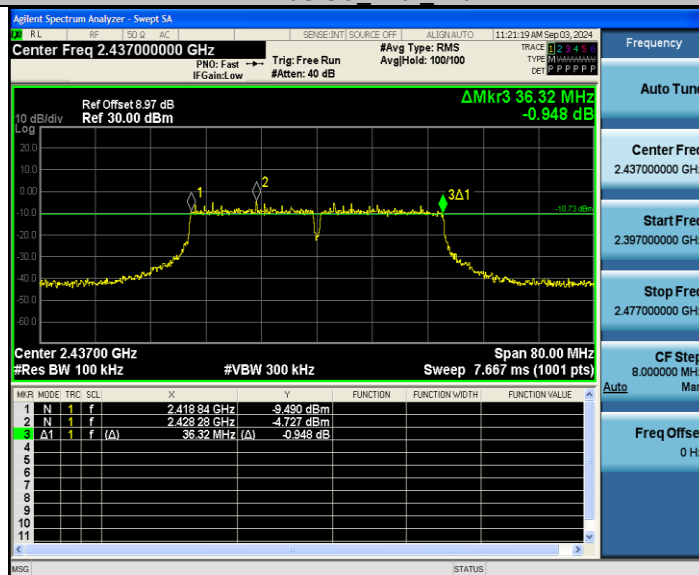
11N20SISO Ant1 2462



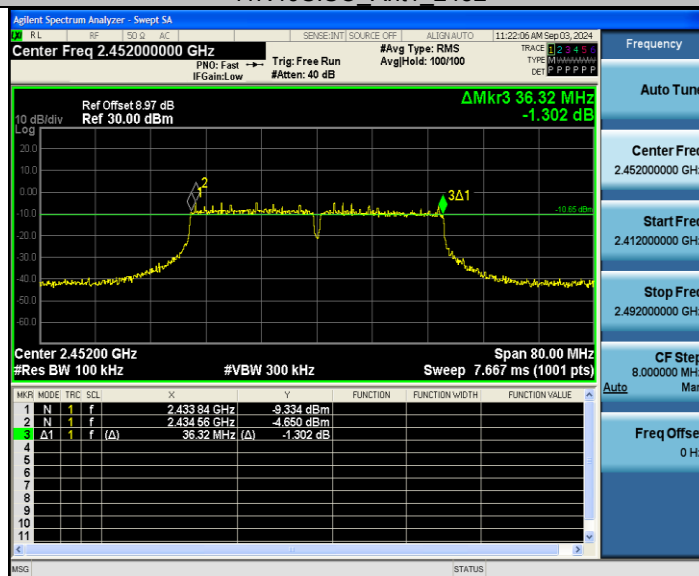
11N40SISO Ant1 2422



11N40SISO Ant1 2437



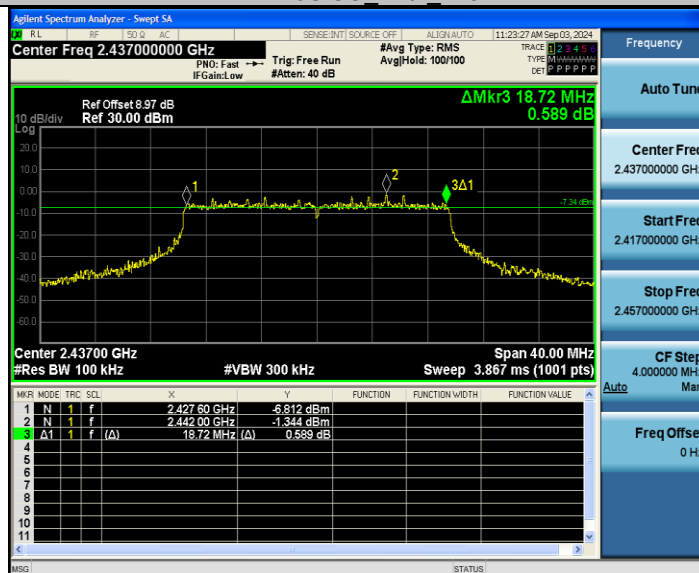
11N40SISO Ant1 2452



11AX20SISO Ant1 2412

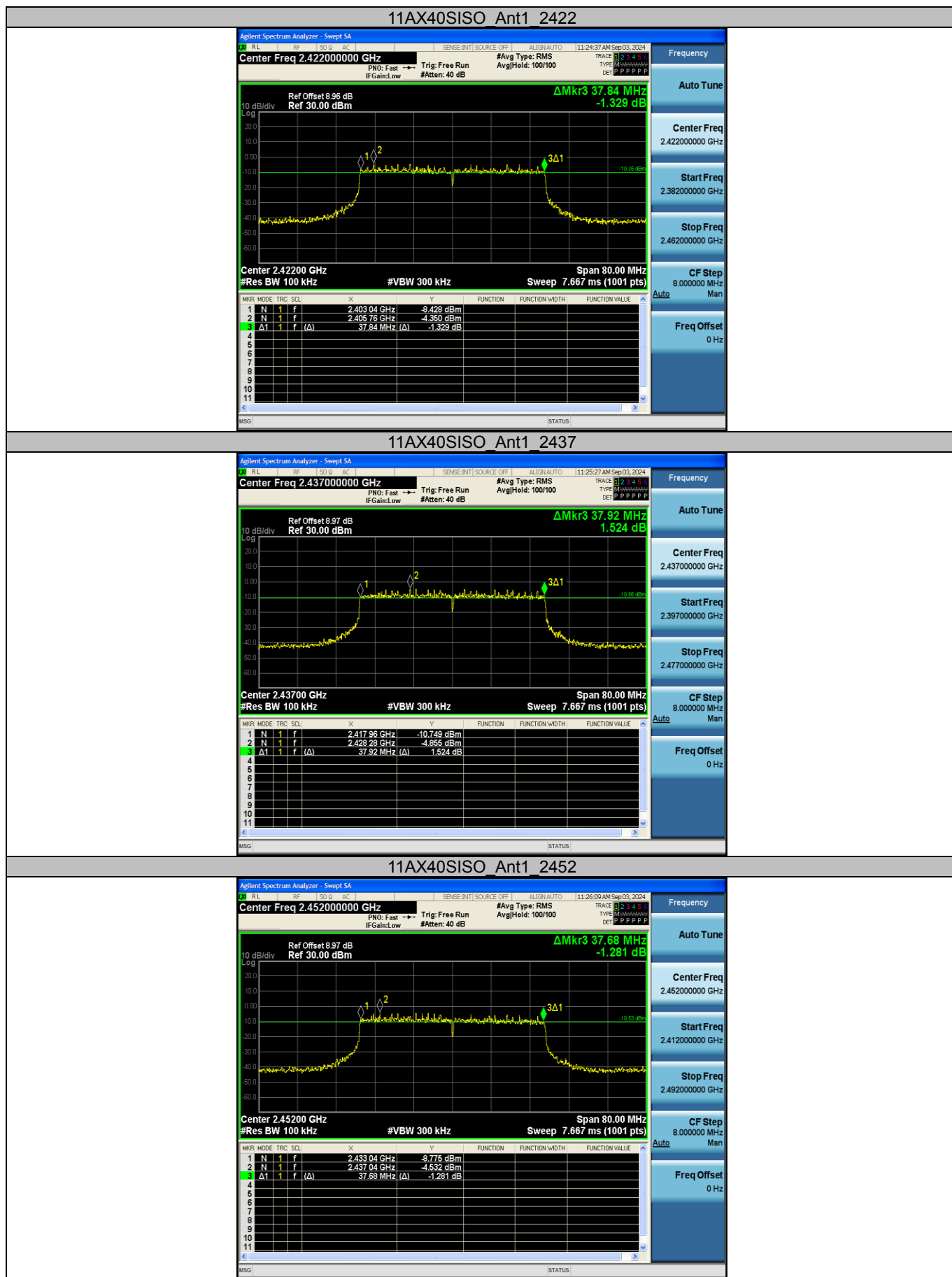


11AX20SISO Ant1 2437



11AX20SISO Ant1 2462





Appendix B: Maximum conducted output power

Test Result Peak

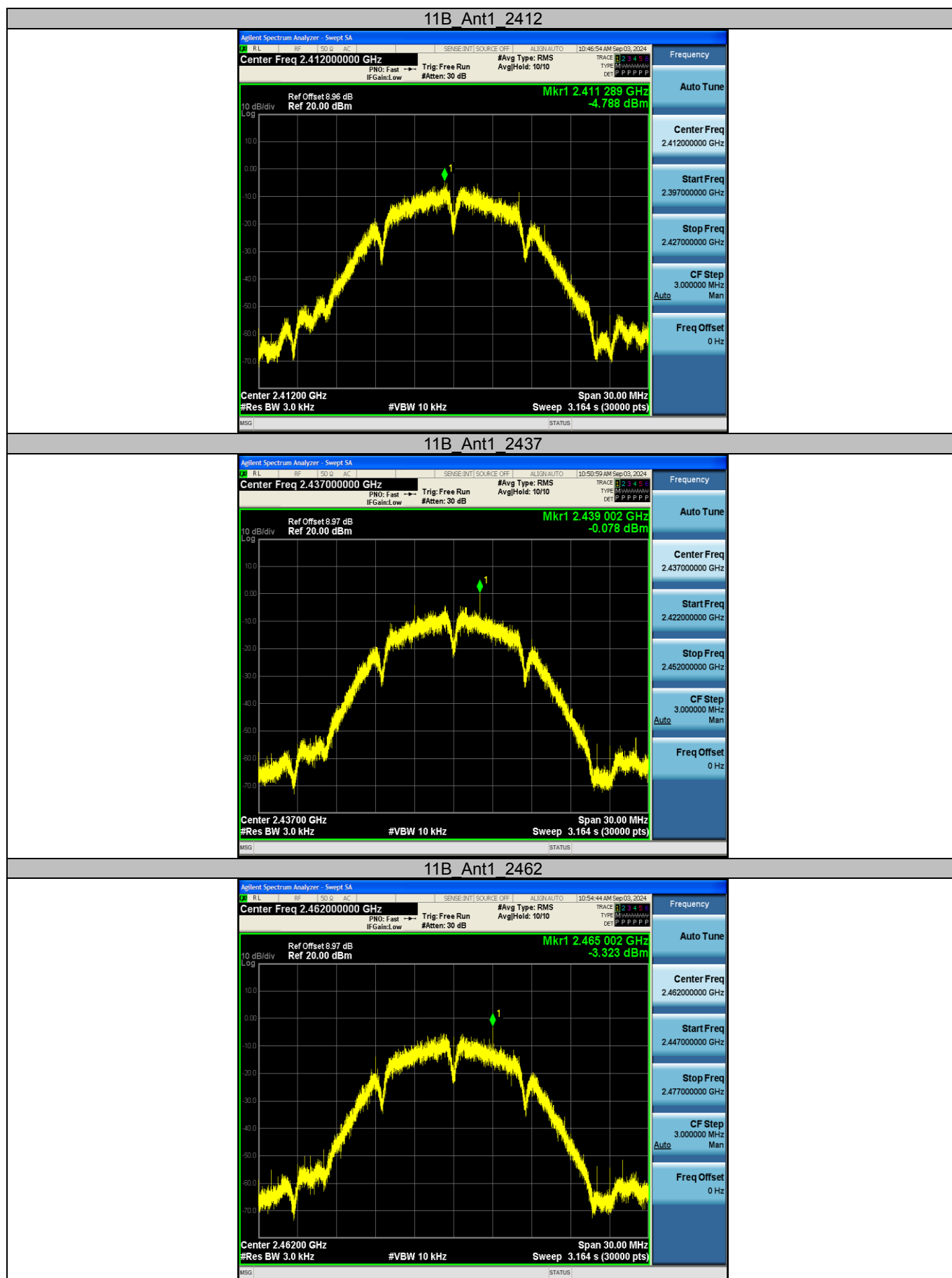
Test Mode	Antenna	Frequency [MHz]	Peak Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	19.55	≤30.00	PASS
		2437	20.13	≤30.00	PASS
		2462	19.64	≤30.00	PASS
11G	Ant1	2412	16.84	≤30.00	PASS
		2437	16.86	≤30.00	PASS
		2462	16.29	≤30.00	PASS
11N20SISO	Ant1	2412	17.20	≤30.00	PASS
		2437	16.67	≤30.00	PASS
		2462	16.31	≤30.00	PASS
11N40SISO	Ant1	2422	16.97	≤30.00	PASS
		2437	16.68	≤30.00	PASS
		2452	16.76	≤30.00	PASS
11AX20SISO	Ant1	2412	17.88	≤30.00	PASS
		2437	17.50	≤30.00	PASS
		2462	16.91	≤30.00	PASS
11AX40SISO	Ant1	2422	17.41	≤30.00	PASS
		2437	17.29	≤30.00	PASS
		2452	17.36	≤30.00	PASS

Appendix C: Maximum power spectral density

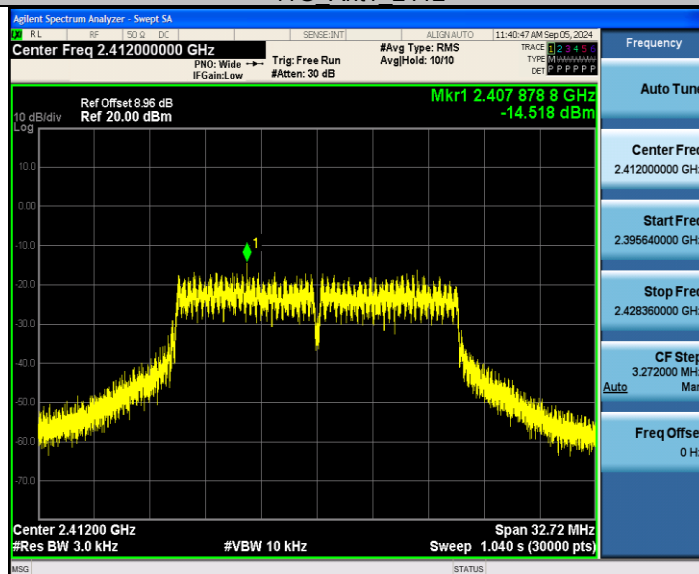
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-4.79	≤8.00	PASS
		2437	-0.08	≤8.00	PASS
		2462	-3.32	≤8.00	PASS
11G	Ant1	2412	-14.52	≤8.00	PASS
		2437	-17.17	≤8.00	PASS
		2462	-16.04	≤8.00	PASS
11N20SISO	Ant1	2412	-15.72	≤8.00	PASS
		2437	-16.32	≤8.00	PASS
		2462	-16.59	≤8.00	PASS
11N40SISO	Ant1	2422	-19.26	≤8.00	PASS
		2437	-19.98	≤8.00	PASS
		2452	-19.52	≤8.00	PASS
11AX20SISO	Ant1	2412	-17.38	≤8.00	PASS
		2437	-17.99	≤8.00	PASS
		2462	-18.05	≤8.00	PASS
11AX40SISO	Ant1	2422	-21.13	≤8.00	PASS
		2437	-21.21	≤8.00	PASS
		2452	-20.20	≤8.00	PASS

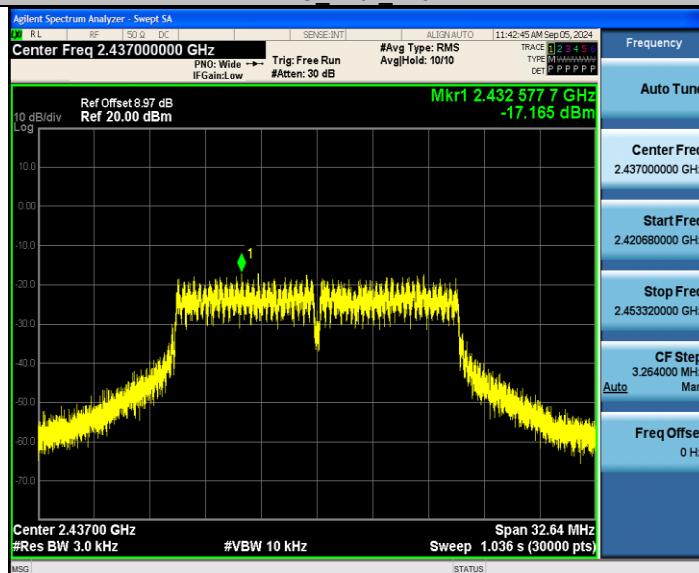
Test Graphs



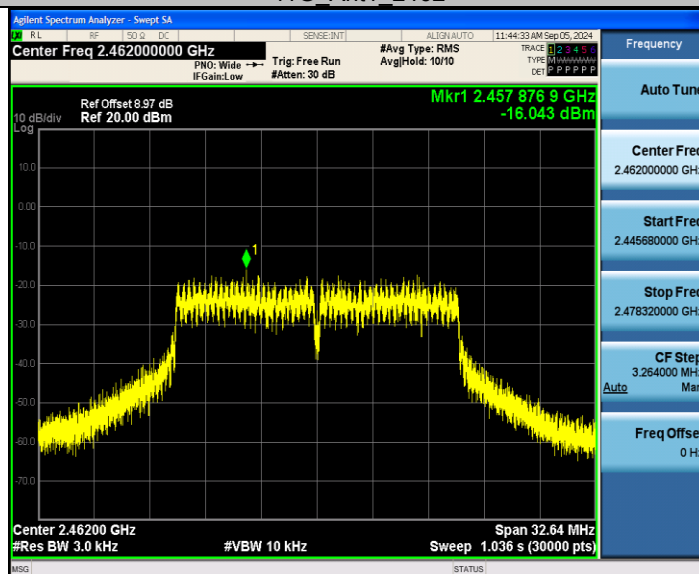
11G_Ant1_2412



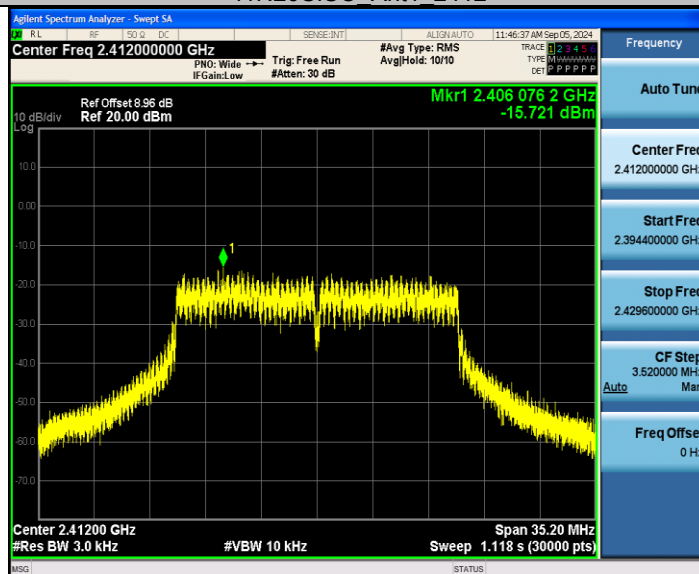
11G_Ant1_2437



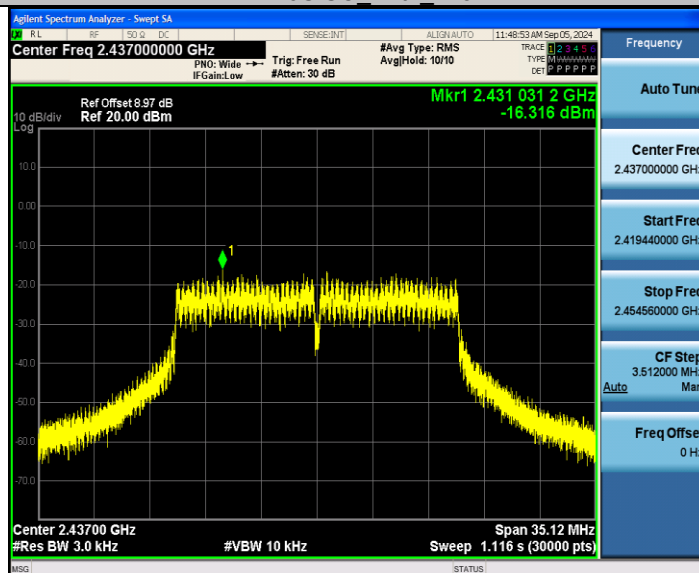
11G_Ant1_2462



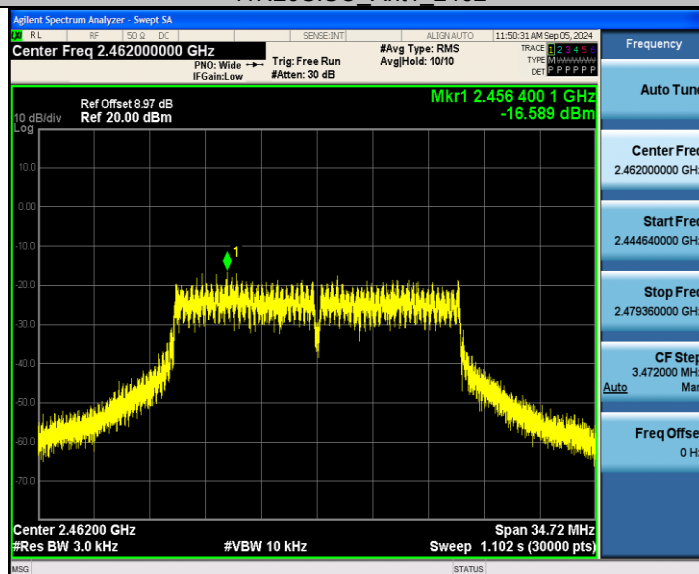
11N20SISO Ant1 2412



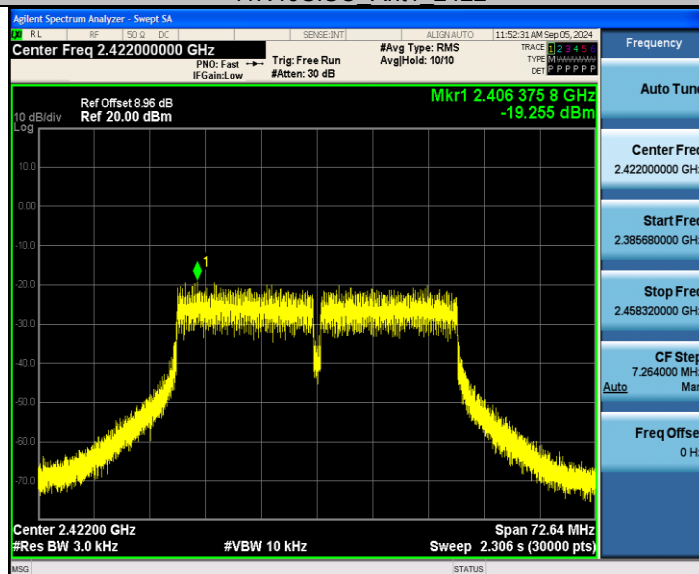
11N20SISO Ant1 2437



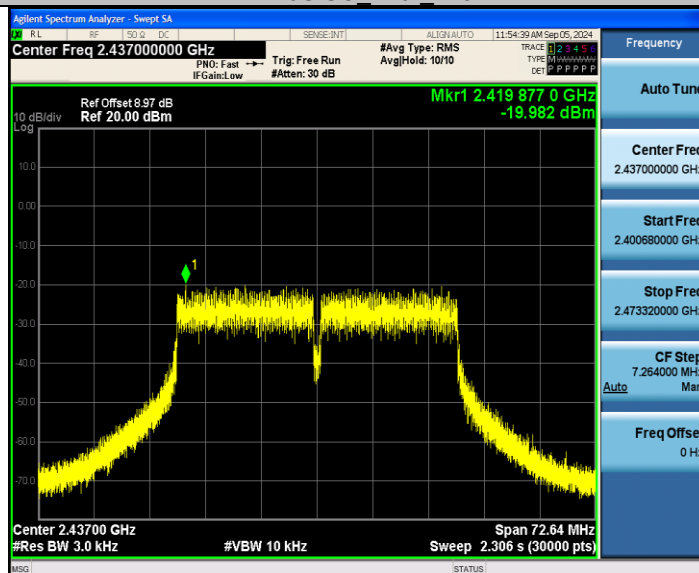
11N20SISO Ant1 2462



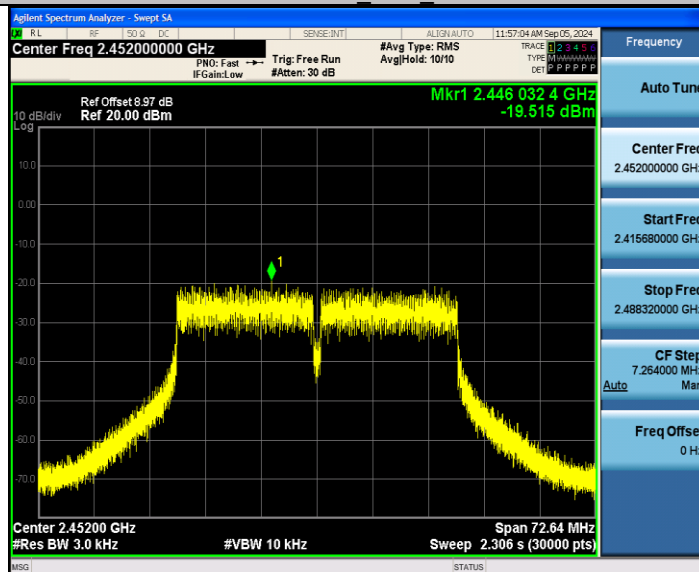
11N40SISO_Ant1_2422

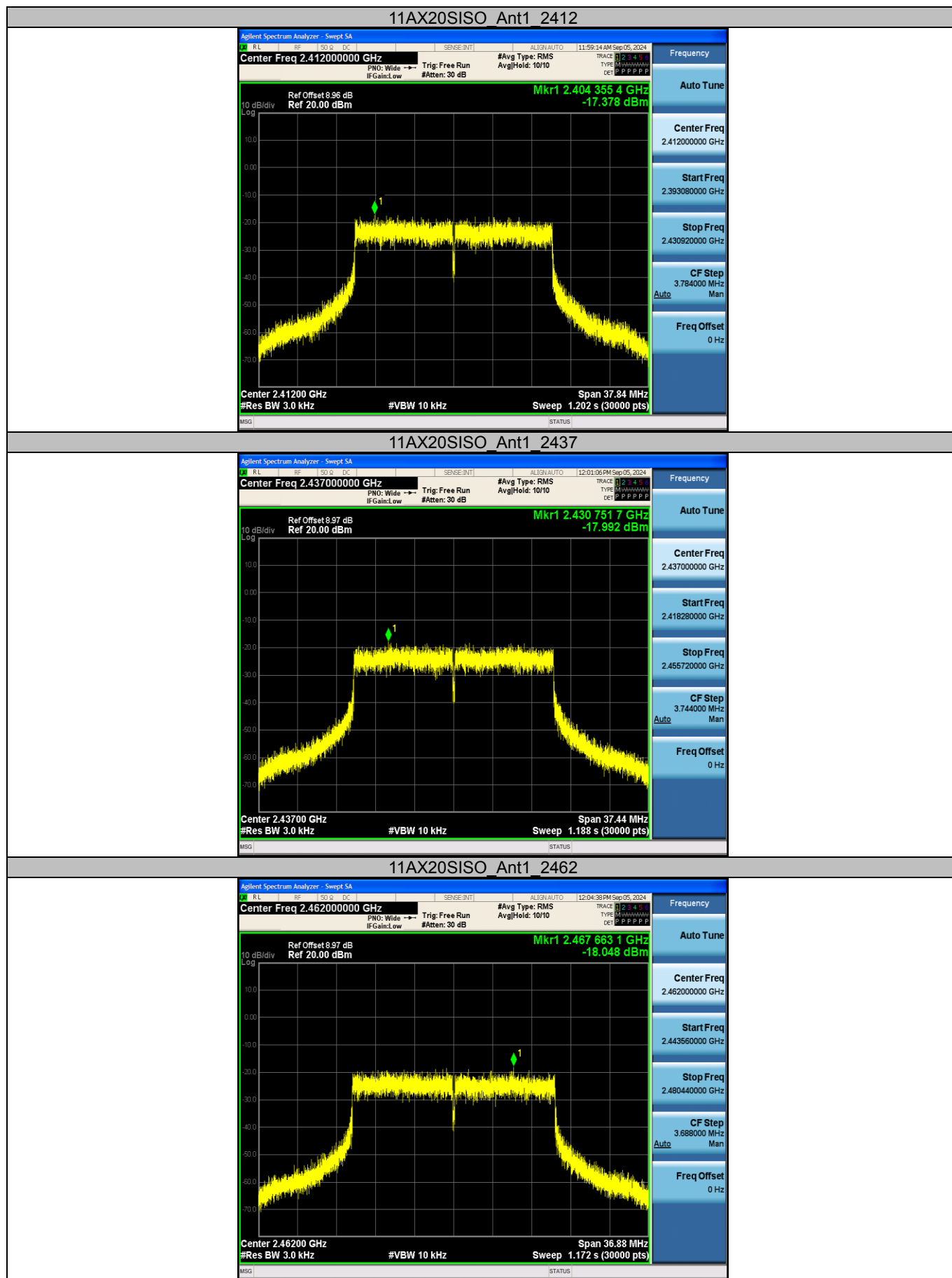


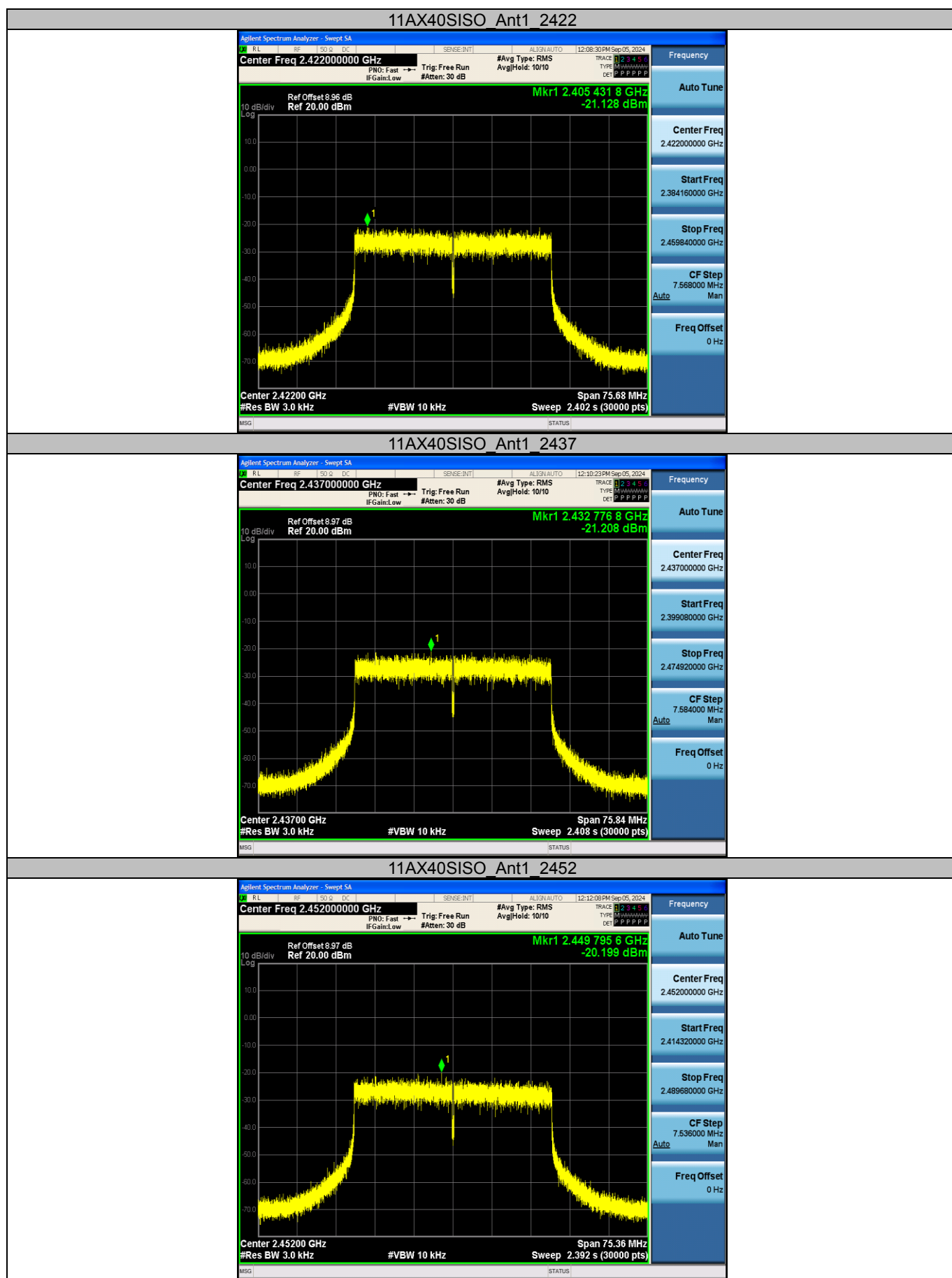
11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

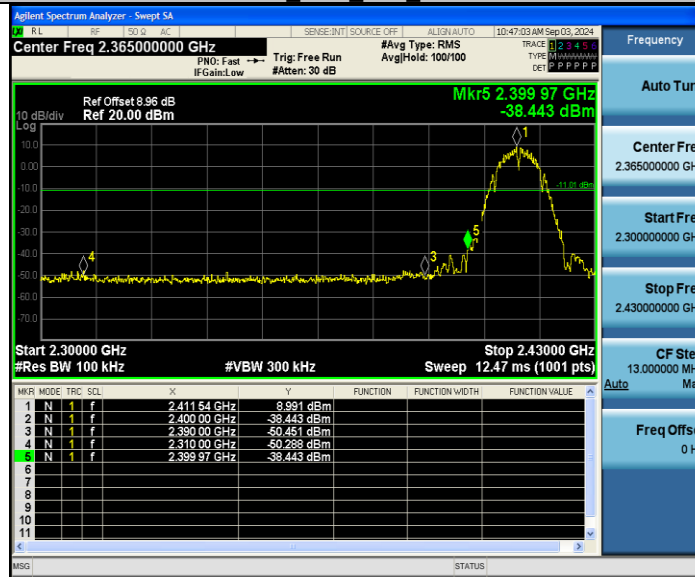




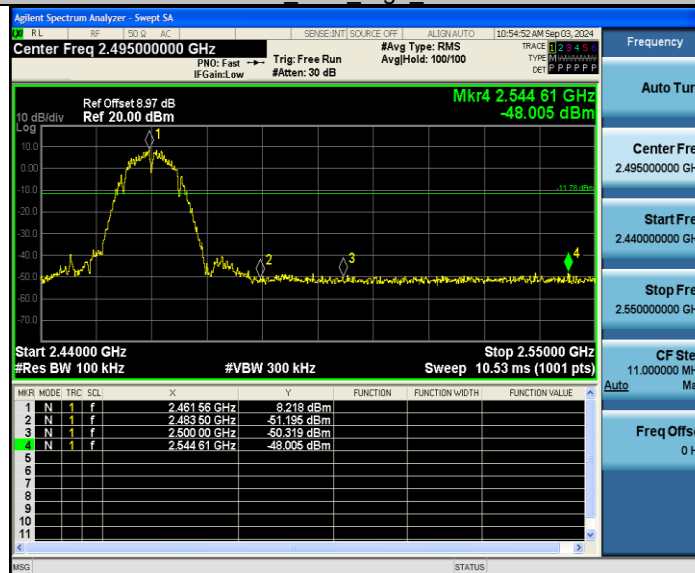


Appendix D: Band edge measurements

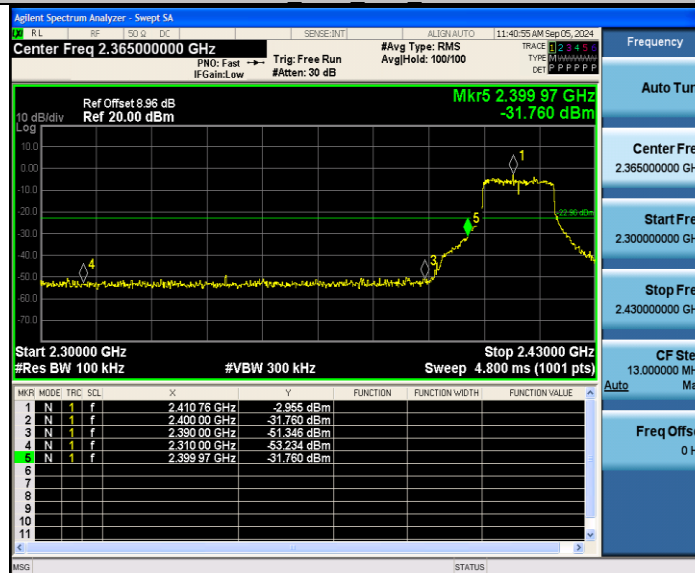
11B Ant1 Low 2412



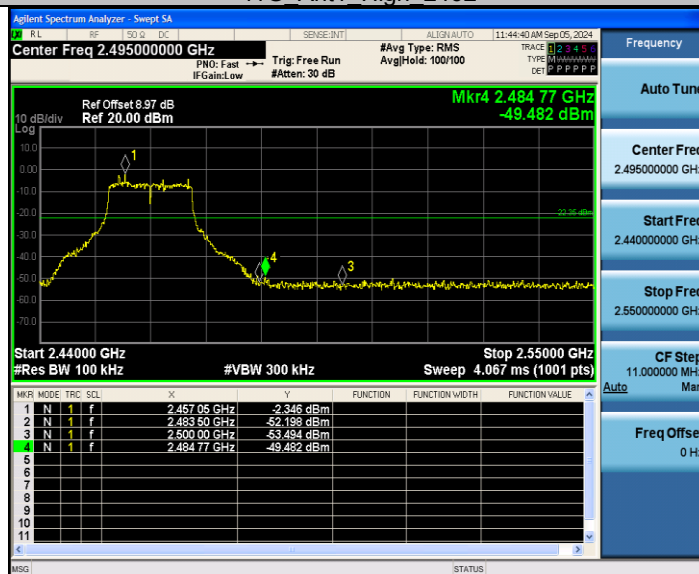
11B Ant1 High 2462



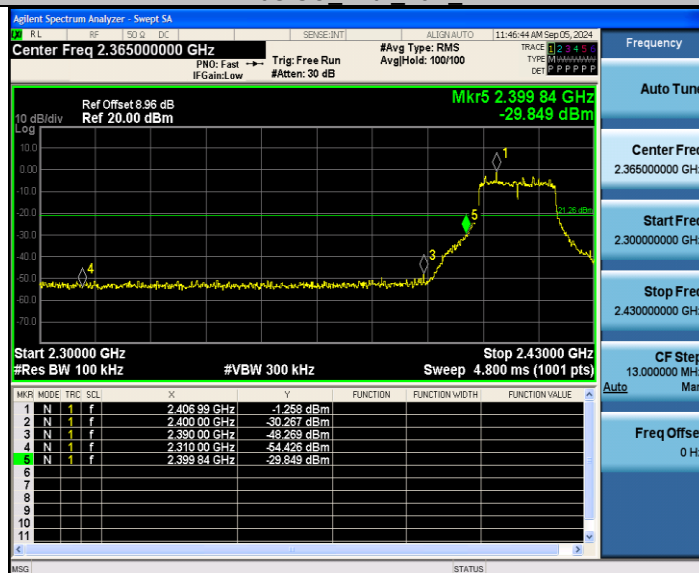
11G Ant1 Low 2412



11G Ant1 High 2462



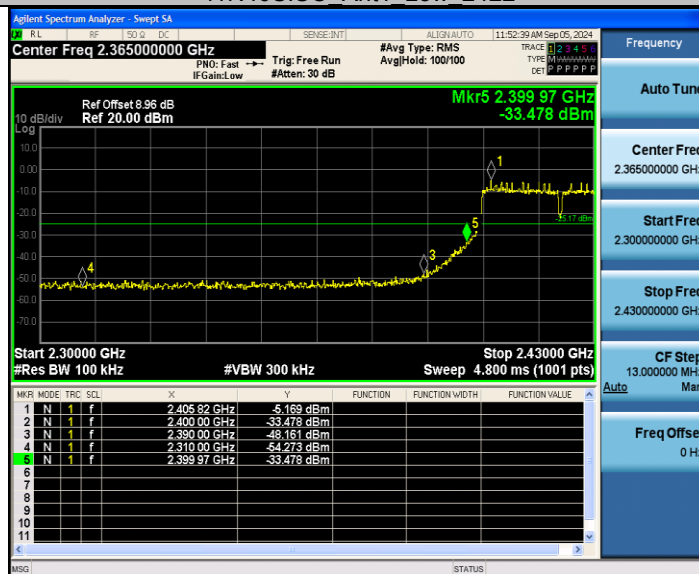
11N20SISO Ant1 Low 2412



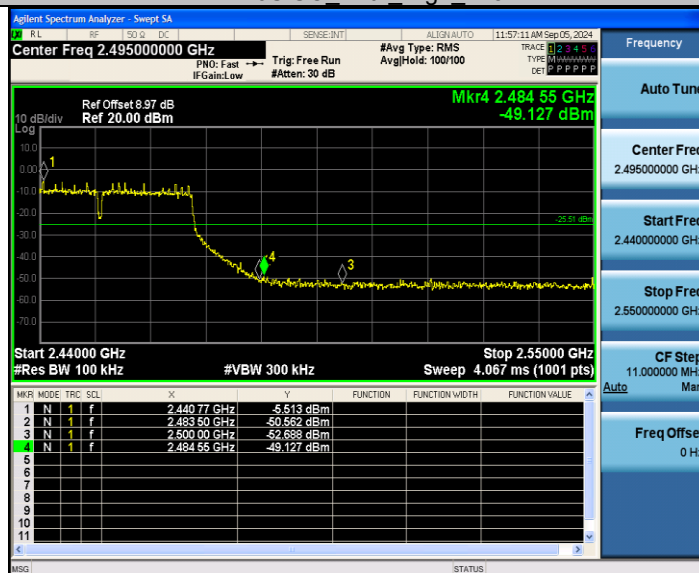
11N20SISO Ant1 High 2462



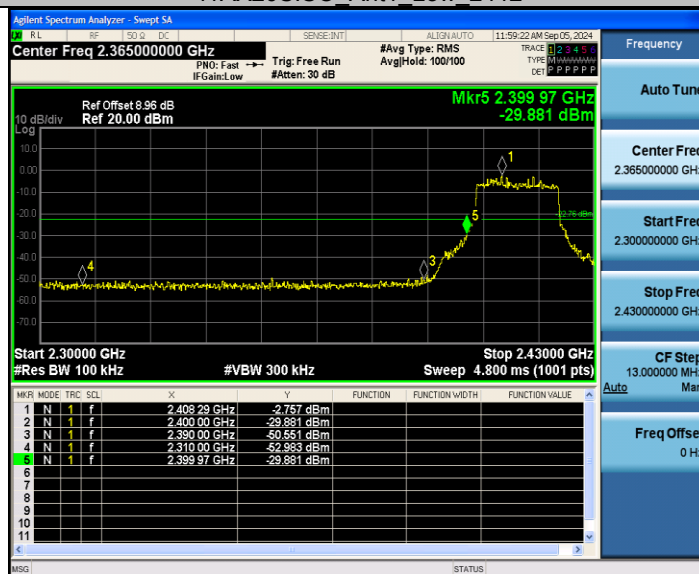
11N40SISO Ant1 Low 2422



11N40SISO Ant1 High 2452



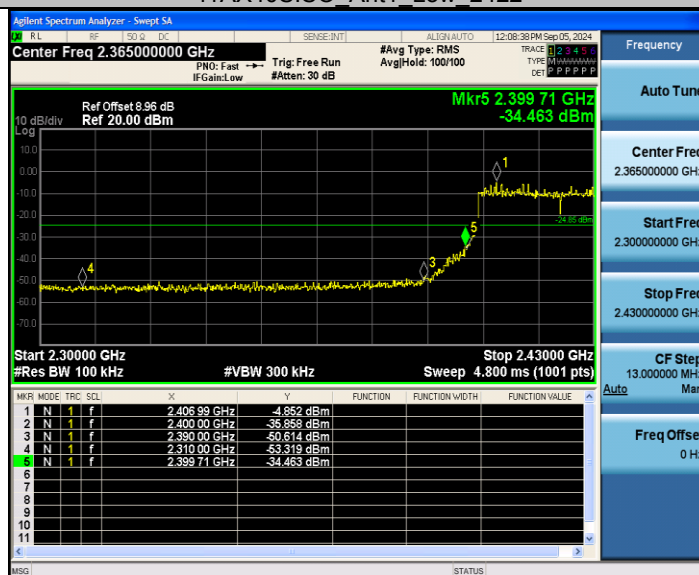
11AX20SISO Ant1 Low 2412



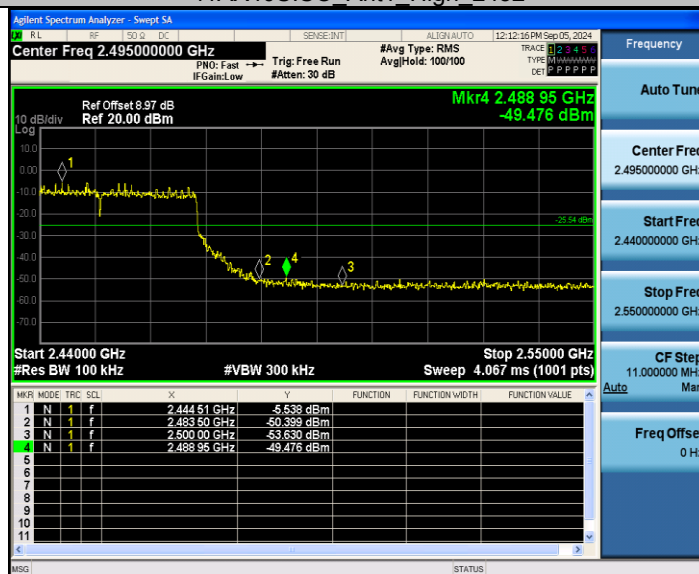
11AX20SISO Ant1 High 2462



11AX40SISO Ant1 Low 2422



11AX40SISO Ant1 High 2452



Appendix E: Conducted Spurious Emission

