

Test Report

Report No.: MTi230724002-02E1

Date of issue: 2023-09-05

Applicant: GUANGDONG WANGJIA INTELLIGENT ROBOT CO., LTD.

Product: Robotic Vacuum Cleaner

Model(s): L100Pro, L200Pro, L100

FCC ID: 2AVYJ-L100

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

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Test Result Certification	
Applicant:	GUANGDONG WANGJIA INTELLIGENT ROBOT CO., LTD.
Address:	Room 301, The Fifth Building No.1 Junma Road, Humen Town 523900 Dongguan, Guangdong PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	GUANGDONG WANGJIA INTELLIGENT ROBOT CO., LTD.
Address:	Room 301, The Fifth Building No.1 Junma Road, Humen Town 523900 Dongguan, Guangdong PEOPLE'S REPUBLIC OF CHINA
Product description	
Product name:	Robotic Vacuum Cleaner
Trademark:	N/A
Model name:	L100Pro
Series Model:	L200Pro, L100
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:	2023-07-18 to 2023-09-05
Test result:	Pass

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

1 General Description

1.1 Description of the EUT

Product name:	Robotic Vacuum Cleaner
Model name:	L100Pro
Series Model:	L200Pro, L100
Model difference:	All the models are the same circuit and module, except the model name, the charging port type and the type of charger. The L200Pro charger is a bucket type charging base with self-emptying function, powered by AC source. The L100Pro charger is a charging dock, powered by AD/DC adapter. L100Pro and L100 only the model name are different.
Electrical rating:	Input: DC 20V/900mA Battery: DC 14.4V 2500mAh 36Wh
Accessories:	L100Pro: 1. Adaptor x1: Model: NLC090200W1U1S58 Input: 100-240V~ 50/60Hz 0.6A MAX Output: DC 20.0V/0.9A 18.0W 2. Charging base x1 L200Pro: 1. Power cable(1.5m) x1 2. Charging base(bucket with base) x1
Hardware version:	L100_V1.5
Software version:	1.2.0
Test sample(s) number:	MTi230724002-02S1001, MTi230724002-02S1002
RF specification	
Operating frequency range:	802.11b/g/n(HT20)ax(20MHz): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Channel number:	802.11b/g/n(HT20) ax(20MHz): 11 Channels; 802.11n(HT40): 7 Channels
Modulation type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna(s) type:	FPC Antenna
Antenna(s) gain:	3.11dBi

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

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	/	/

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: WifiFixedFrequency

For power setting, refer to below table.

Mode	2412MHz	2437MHz	2462MHz
802.11b	38	38	38
802.11g	38	38	38
802.11n 20	38	38	38
Mode	2422MHz	2437MHz	2452MHz
802.11n 40	38	38	38

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
/	/	/	/
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

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

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)	Pass
7	Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
8	Radiated emissions (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
9	Radiated emissions (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	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						
Power Spectral Density RF conducted spurious emissions and band edge measurement Occupied Bandwidth Maximum Conducted Output Power						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04
Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-05-26	2024-05-25
3	Amplifier	Agilent	8449B	3008A01120	2023-06-26	2024-06-25
4	Multi-device Controller	TuoPu	TPMDC	/	2023-05-04	2024-05-03
5	MXA signal analyzer	Agilent	N9020A	MY54440859	2023-05-05	2024-05-04
Emissions in frequency bands (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-06-26	2024-06-25
4	Multi-device Controller	TuoPu	TPMDC	/	2023-05-04	2024-05-03
5	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2021/05/30	2024/05/29

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test 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 shall be considered sufficient to comply with the provisions of this section.
Description of the antenna of EUT:	The antenna of the EUT is permanently attached.
Conclusion:	The EUT complies with the requirement of FCC PART 15.203.

6 Radio Spectrum Matter Test Results (RF)

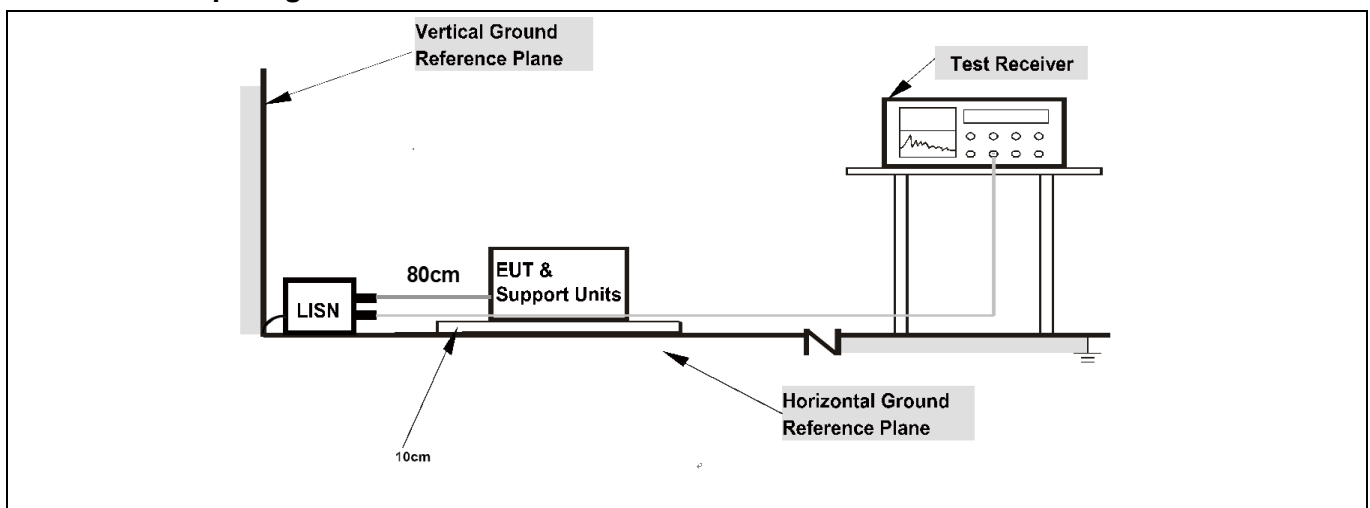
6.1 Conducted Emission at AC power line

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		

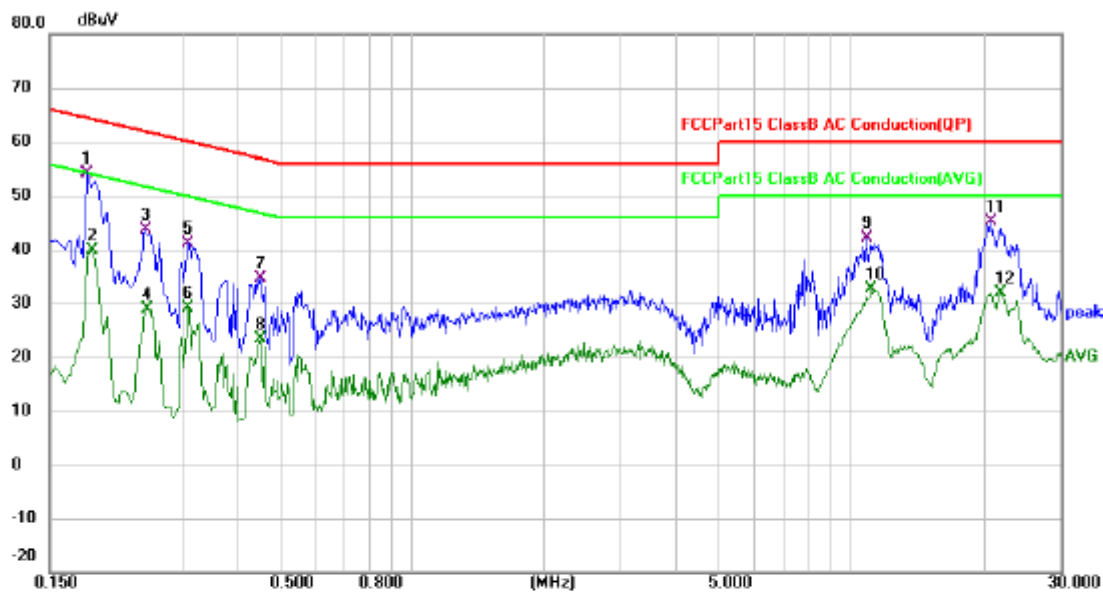
6.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	26 °C	Humidity:	41 %
		Atmospheric Pressure:	101 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4		
Final test mode:	Mode1		

6.1.2 Test Setup Diagram:

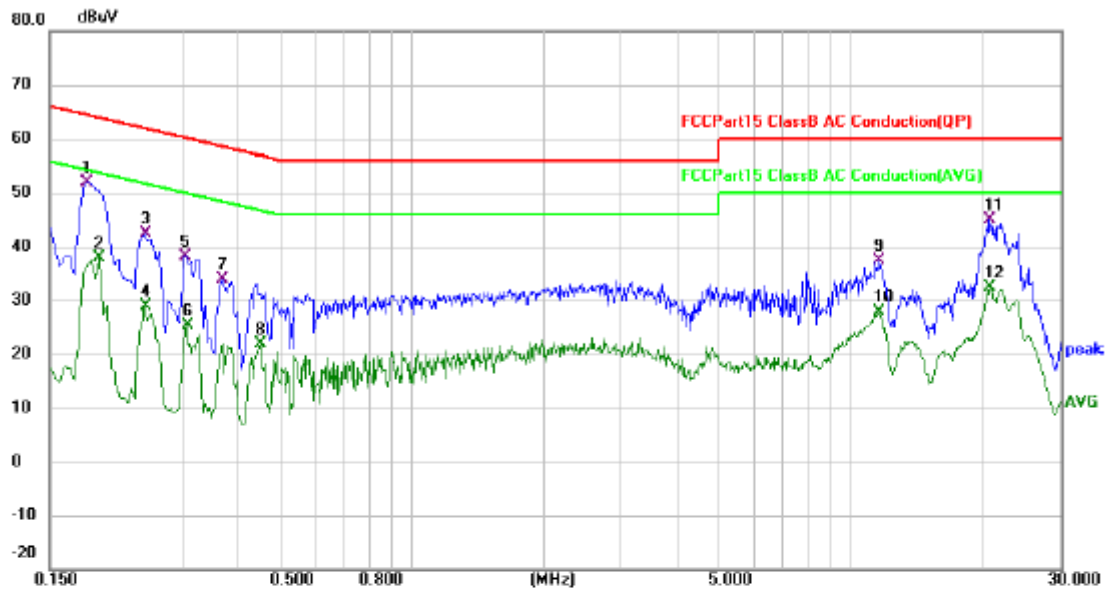


Mode1(AC120V/60Hz) / Line: Line / CH: 01 / Model: L100Pro



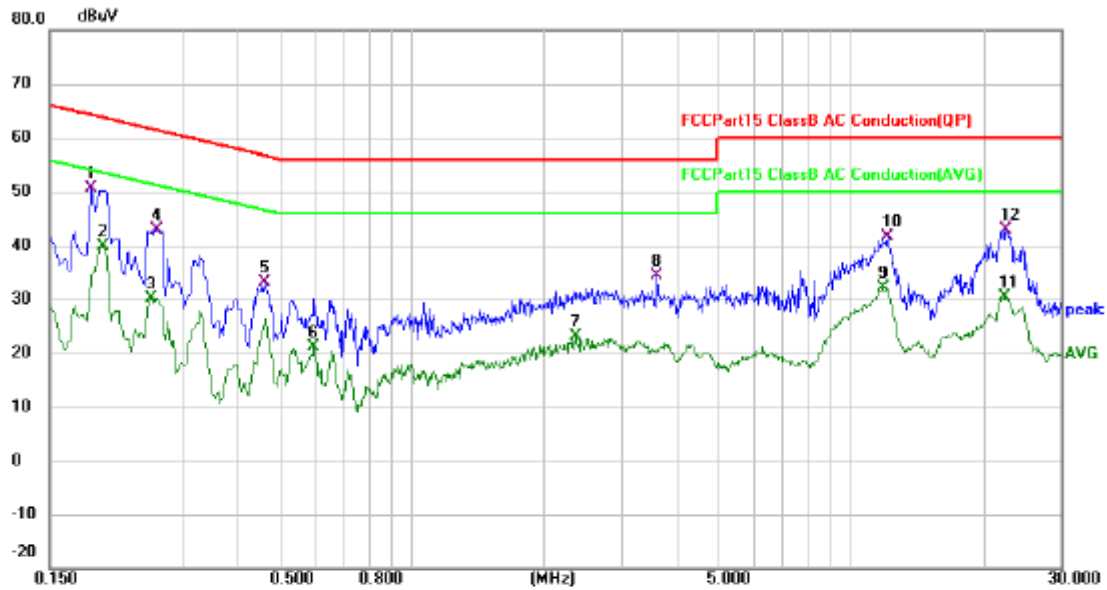
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1819	43.39	10.64	54.03	64.40	-10.37	QP	
2		0.1860	29.16	10.66	39.82	54.21	-14.39	AVG	
3		0.2460	32.76	10.77	43.53	61.89	-18.36	QP	
4		0.2500	18.23	10.77	29.00	51.76	-22.76	AVG	
5		0.3100	30.21	10.89	41.10	59.97	-18.87	QP	
6		0.3100	18.18	10.89	29.07	49.97	-20.90	AVG	
7		0.4500	23.46	11.21	34.67	56.88	-22.21	QP	
8		0.4500	12.17	11.21	23.38	46.88	-23.50	AVG	
9		10.8059	31.75	10.43	42.18	60.00	-17.82	QP	
10		11.1700	22.21	10.43	32.64	50.00	-17.36	AVG	
11		20.7060	34.43	10.67	45.10	60.00	-14.90	QP	
12		21.8860	21.16	10.71	31.87	50.00	-18.13	AVG	

Mode1(AC120V/60Hz) / Line: Neutral / CH: 01 / Model: L100Pro



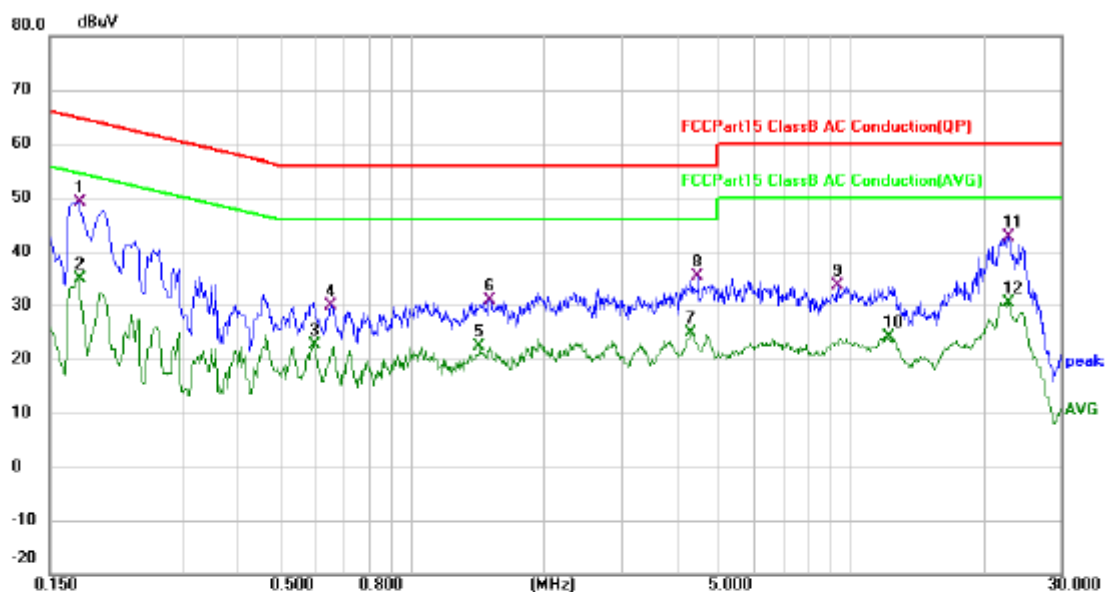
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1819	41.40	10.59	51.99	64.40	-12.41	QP	
2		0.1940	27.29	10.59	37.88	53.86	-15.98	AVG	
3		0.2460	31.63	10.71	42.34	61.89	-19.55	QP	
4		0.2460	18.09	10.71	28.80	51.89	-23.09	AVG	
5		0.3020	27.36	10.84	38.20	60.19	-21.99	QP	
6		0.3060	14.54	10.86	25.40	50.08	-24.68	AVG	
7		0.3700	22.90	10.98	33.88	58.50	-24.62	QP	
8		0.4500	10.62	11.18	21.80	46.88	-25.08	AVG	
9		11.6300	26.96	10.37	37.33	60.00	-22.67	QP	
10		11.6300	17.55	10.37	27.92	50.00	-22.08	AVG	
11		20.6860	34.24	10.71	44.95	60.00	-15.05	QP	
12		20.7139	21.66	10.71	32.37	50.00	-17.63	AVG	

Mode1(AC240V/60Hz) / Line: Line / CH: 01 / Model: L100Pro



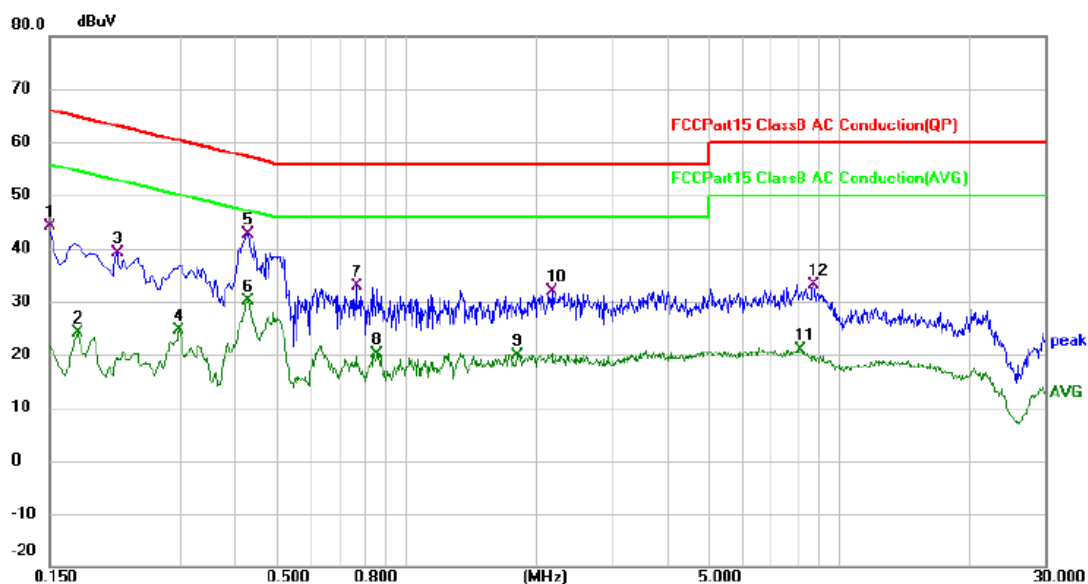
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1 *	0.1860	39.94	10.66	50.60	64.21	-13.61	QP	
2	0.1980	29.09	10.68	39.77	53.69	-13.92	AVG	
3	0.2540	19.37	10.77	30.14	51.63	-21.49	AVG	
4	0.2620	32.15	10.79	42.94	61.37	-18.43	QP	
5	0.4620	21.93	11.24	33.17	56.66	-23.49	QP	
6	0.5980	9.58	11.54	21.12	46.00	-24.88	AVG	
7	2.3660	12.97	10.10	23.07	46.00	-22.93	AVG	
8	3.6260	24.05	10.27	34.32	56.00	-21.68	QP	
9	11.8220	21.78	10.45	32.23	50.00	-17.77	AVG	
10	12.0659	31.08	10.45	41.53	60.00	-18.47	QP	
11	22.4780	19.71	10.72	30.43	50.00	-19.57	AVG	
12	22.6460	32.14	10.71	42.85	60.00	-17.15	QP	

Mode1(AC240V/60Hz) / Line: Neutral / CH: 01 / Model: L100Pro



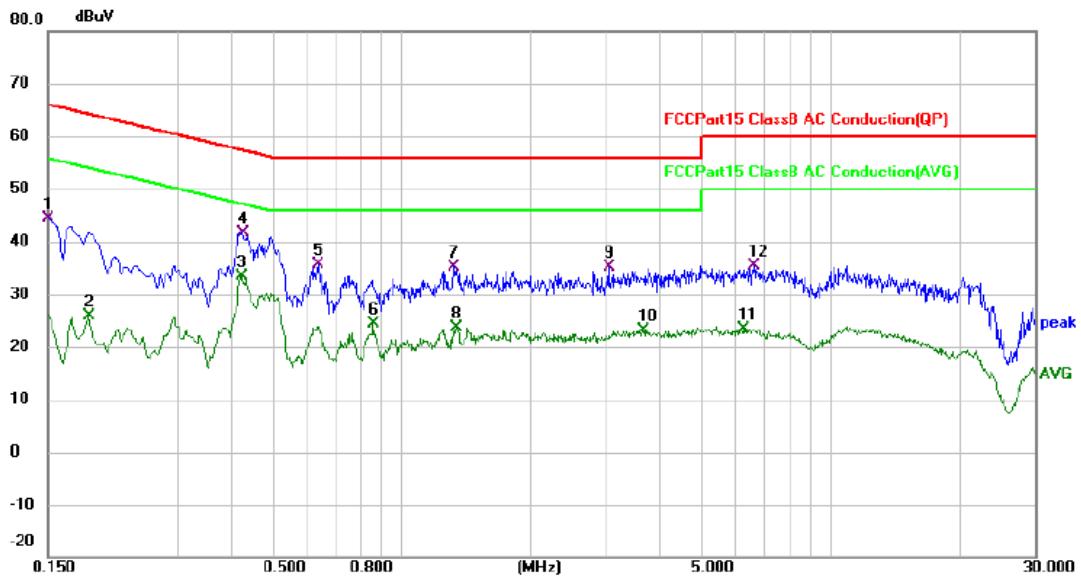
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1740	38.76	10.25	49.01	64.77	-15.76	QP	
2		0.1740	24.73	10.25	34.98	54.77	-19.79	AVG	
3		0.5980	10.97	11.55	22.52	46.00	-23.48	AVG	
4		0.6540	18.27	11.67	29.94	56.00	-26.06	QP	
5		1.4299	9.20	13.25	22.45	46.00	-23.55	AVG	
6		1.5060	17.42	13.42	30.84	56.00	-25.16	QP	
7		4.3300	14.54	10.28	24.82	46.00	-21.18	AVG	
8		4.4818	25.06	10.28	35.34	56.00	-20.66	QP	
9		9.3139	23.40	10.31	33.71	60.00	-26.29	QP	
10		12.2018	13.72	10.39	24.11	50.00	-25.89	AVG	
11		22.7580	31.93	10.74	42.67	60.00	-17.33	QP	
12		22.7580	19.66	10.74	30.40	50.00	-19.60	AVG	

Mode1(AC120V/60Hz) / Line: Line / CH: 01 / Model: L200Pro



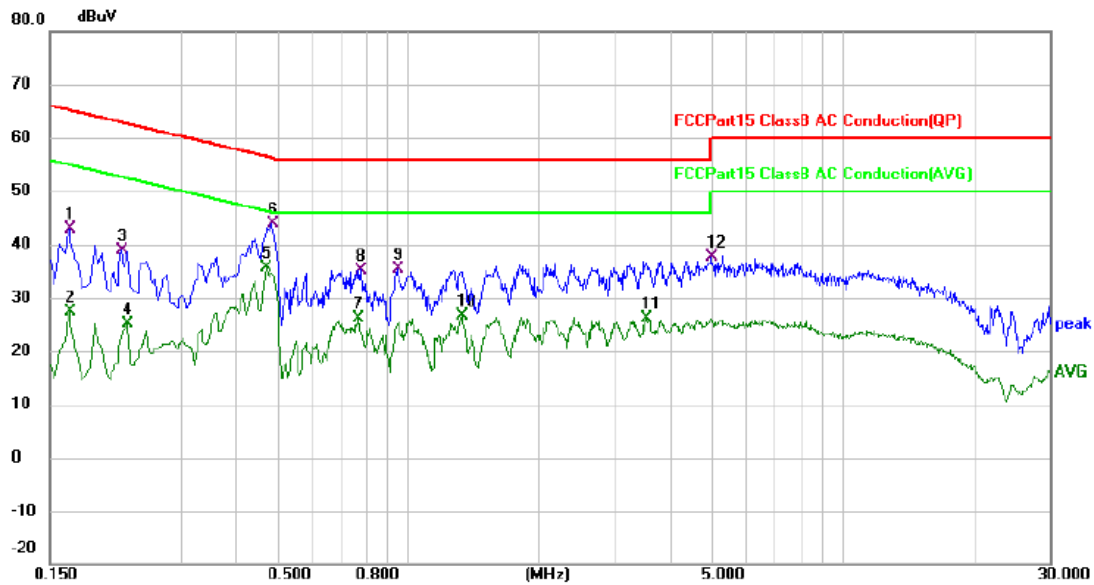
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	33.82	10.29	44.11	66.00	-21.89	QP	
2		0.1740	13.86	10.25	24.11	54.77	-30.66	AVG	
3		0.2140	28.62	10.62	39.24	63.05	-23.81	QP	
4		0.2980	13.77	10.84	24.61	50.30	-25.69	AVG	
5	*	0.4300	31.57	11.13	42.70	57.25	-14.55	QP	
6		0.4300	19.01	11.13	30.14	47.25	-17.11	AVG	
7		0.7700	21.02	11.91	32.93	56.00	-23.07	QP	
8		0.8580	8.12	12.08	20.20	46.00	-25.80	AVG	
9		1.8100	5.91	14.07	19.98	46.00	-26.02	AVG	
10		2.1740	21.33	10.44	31.77	56.00	-24.23	QP	
11		8.1380	10.55	10.29	20.84	50.00	-29.16	AVG	
12		8.6980	22.74	10.30	33.04	60.00	-26.96	QP	

Mode1(AC120V/60Hz) / Line: Neutral / CH: 01 / Model: L200Pro



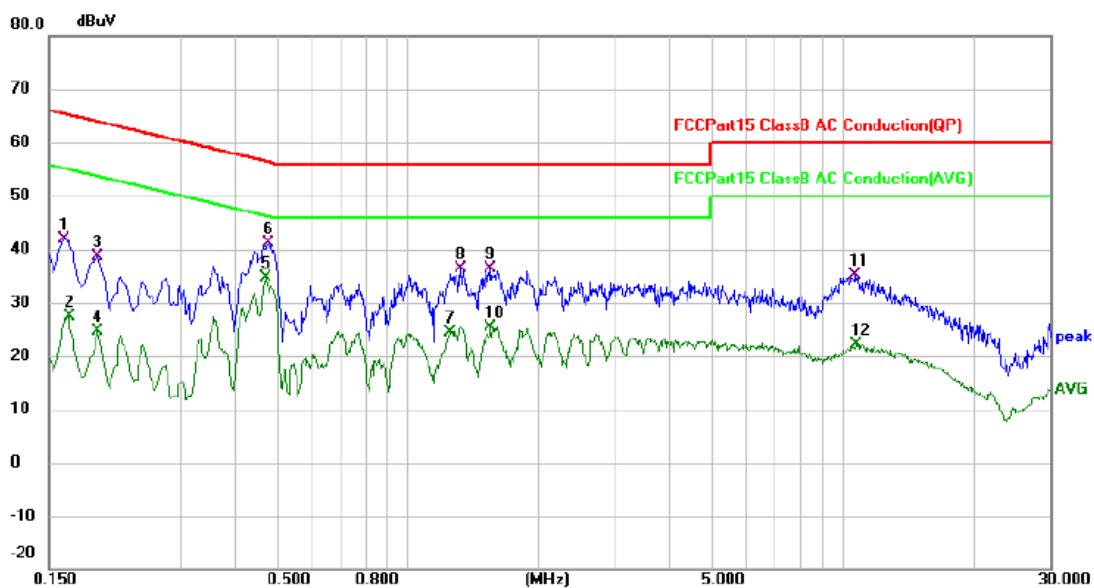
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	34.21	10.28	44.49	66.00	-21.51	QP	
2		0.1860	15.20	10.66	25.86	54.21	-28.35	AVG	
3	*	0.4220	22.31	11.14	33.45	47.41	-13.96	AVG	
4		0.4260	30.56	11.17	41.73	57.33	-15.60	QP	
5		0.6419	23.90	11.63	35.53	56.00	-20.47	QP	
6		0.8580	12.18	12.11	24.29	46.00	-21.71	AVG	
7		1.3300	22.31	12.94	35.25	56.00	-20.75	QP	
8		1.3460	10.76	12.97	23.73	46.00	-22.27	AVG	
9		3.0460	24.78	10.27	35.05	56.00	-20.95	QP	
10		3.6420	12.91	10.27	23.18	46.00	-22.82	AVG	
11		6.3139	13.14	10.28	23.42	50.00	-26.58	AVG	
12		6.6500	24.98	10.28	35.26	60.00	-24.74	QP	

Mode1(AC240V/60Hz) / Line: Line / CH: 01 / Model: L200Pro



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.1660	32.69	10.28	42.97	65.16	-22.19	QP	
2		0.1660	17.02	10.28	27.30	55.16	-27.86	AVG	
3		0.2180	28.08	10.72	38.80	62.89	-24.09	QP	
4		0.2260	14.41	10.73	25.14	52.60	-27.46	AVG	
5	*	0.4700	24.27	11.26	35.53	46.51	-10.98	AVG	
6		0.4860	32.47	11.30	43.77	56.24	-12.47	QP	
7		0.7740	14.14	11.91	26.05	46.00	-19.95	AVG	
8		0.7820	23.31	11.94	35.25	56.00	-20.75	QP	
9		0.9460	23.06	12.31	35.37	56.00	-20.63	QP	
10		1.3340	13.72	12.94	26.66	46.00	-19.34	AVG	
11		3.5420	15.83	10.27	26.10	46.00	-19.90	AVG	
12		4.9859	27.26	10.26	37.52	56.00	-18.48	QP	

Mode1(AC240V/60Hz) / Line: Neutral / CH: 01 / Model: L200Pro



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1620	31.71	10.27	41.98	65.36	-23.38	QP	
2		0.1660	17.14	10.26	27.40	55.16	-27.76	AVG	
3		0.1940	27.94	10.59	38.53	63.86	-25.33	QP	
4		0.1940	14.07	10.59	24.66	53.86	-29.20	AVG	
5	*	0.4700	23.45	11.24	34.69	46.51	-11.82	AVG	
6		0.4780	29.80	11.26	41.06	56.37	-15.31	QP	
7		1.2540	11.43	12.87	24.30	46.00	-21.70	AVG	
8		1.3300	23.45	13.04	36.49	56.00	-19.51	QP	
9		1.5580	22.86	13.53	36.39	56.00	-19.61	QP	
10		1.5580	11.94	13.53	25.47	46.00	-20.53	AVG	
11		10.7299	24.77	10.34	35.11	60.00	-24.89	QP	
12		10.7739	11.88	10.34	22.22	50.00	-27.78	AVG	

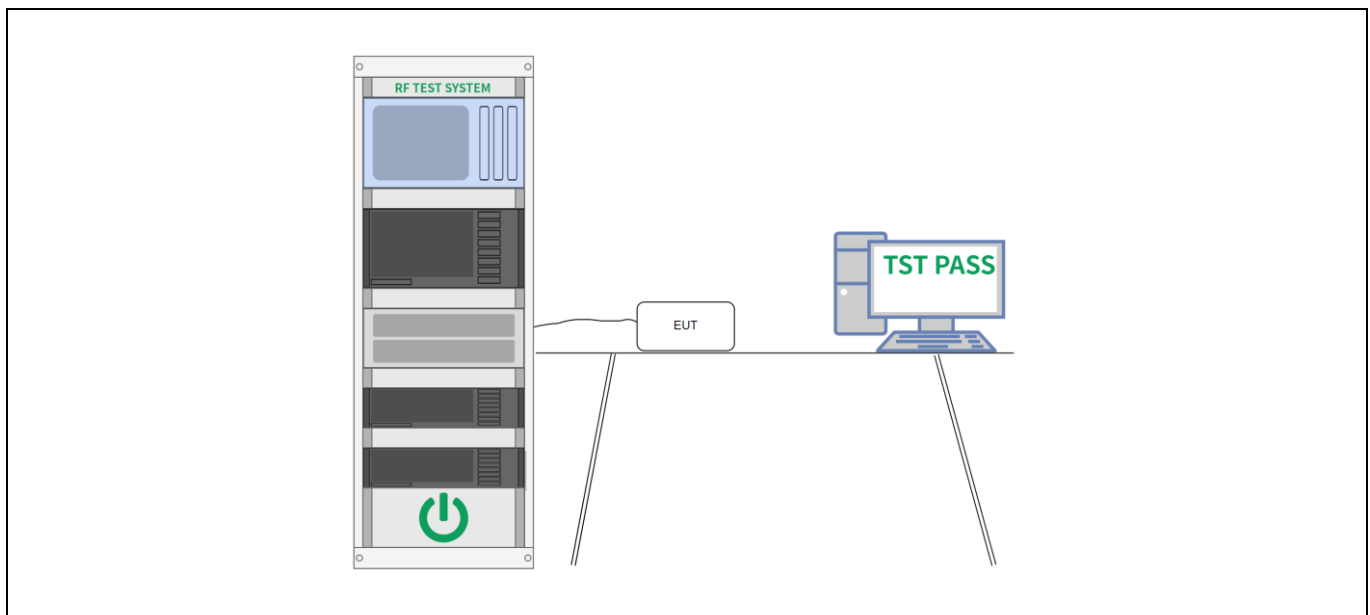
6.2 Occupied Bandwidth

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:	57 %	Atmospheric Pressure:	101 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4				

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

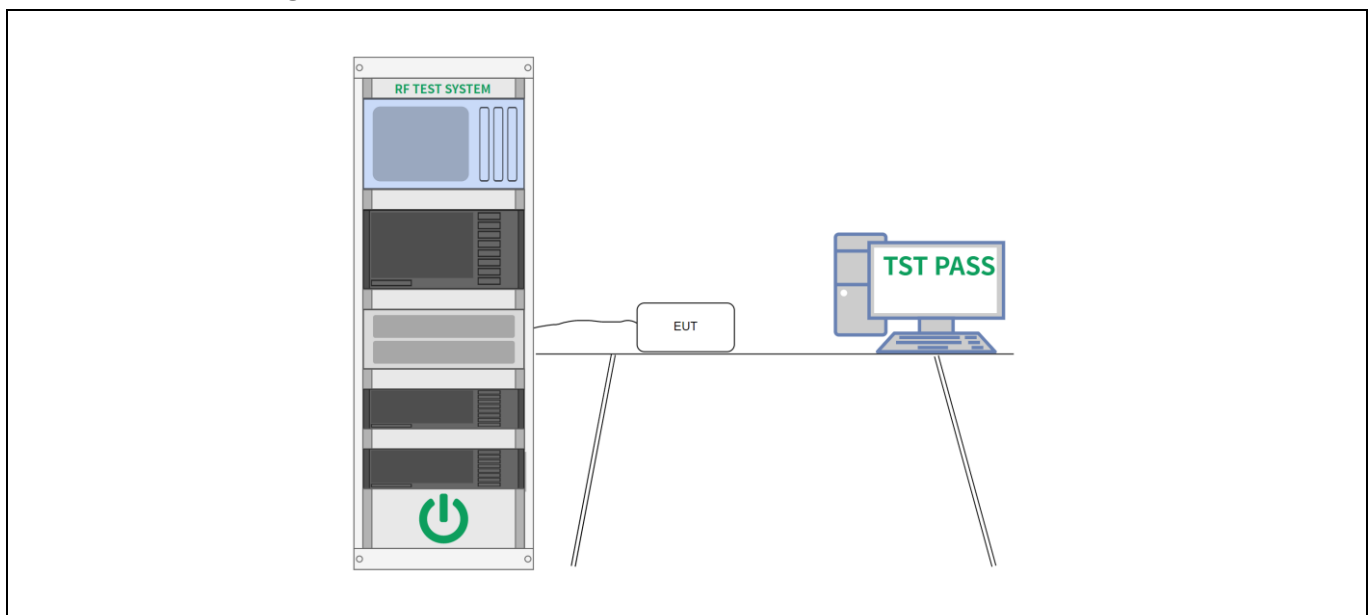
6.3 Maximum Conducted Output Power

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:	57 %	Atmospheric Pressure:	101 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

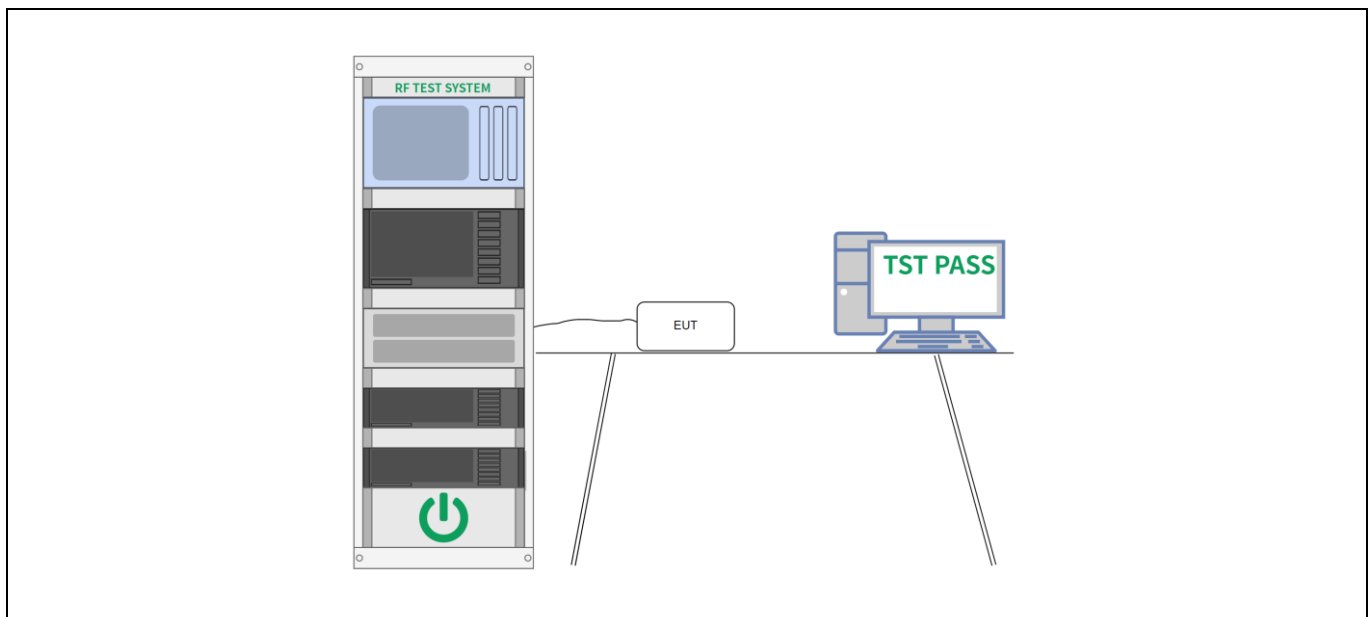
6.4 Power Spectral Density

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:	57 %	Atmospheric Pressure:	101 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

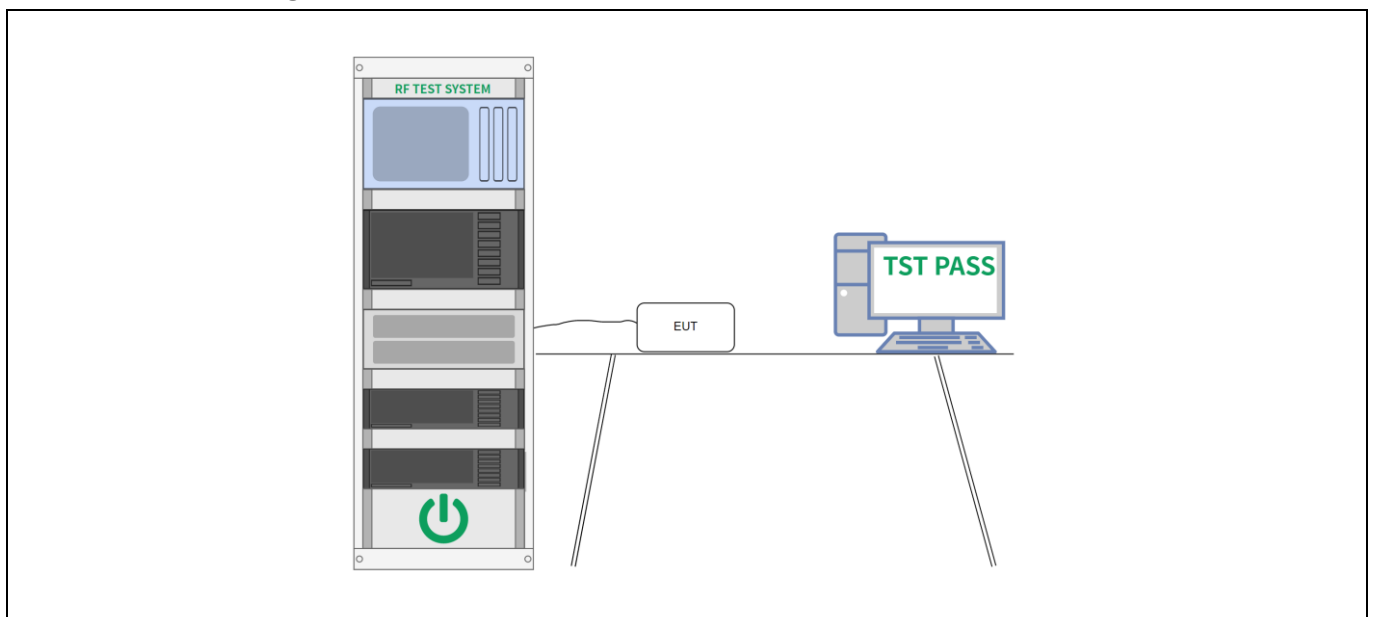
6.5 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d)
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:	57 %	Atmospheric Pressure:	101 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4				

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

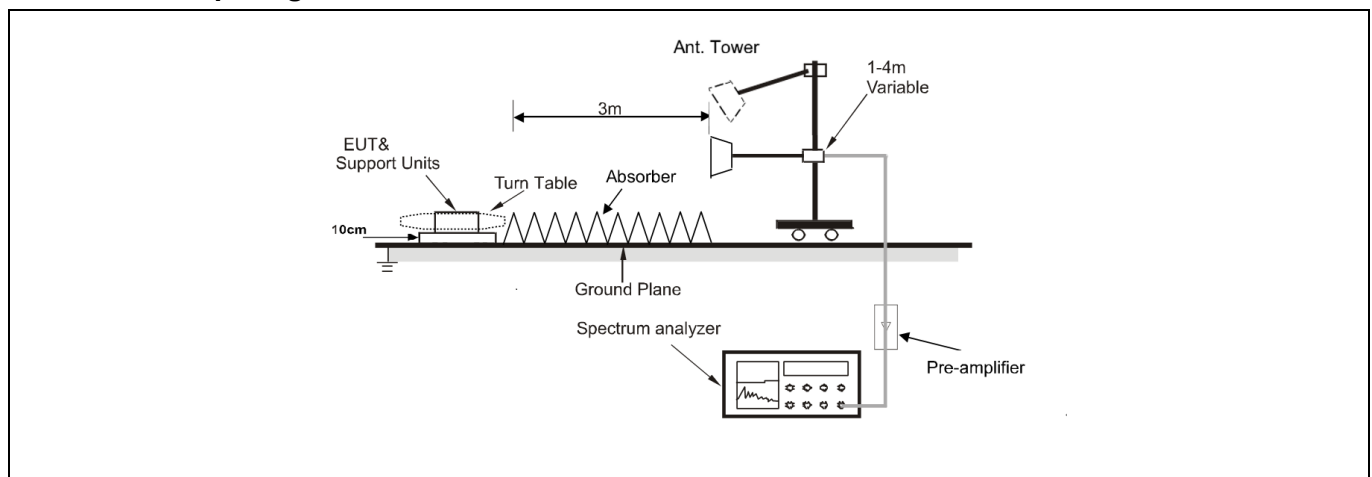
6.6 Band edge emissions (Radiated)

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.		
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:	16.3 °C	Humidity:	52.3 %
		Atmospheric Pressure:	99 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4		
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 / Band: 2.4G / BW: 20 / CH: 01							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		2310.000	43.17	-2.66	40.51	74.00	-33.49 peak
2		2310.000	33.71	-2.66	31.05	54.00	-22.95 AVG
3		2390.000	46.71	-2.03	44.68	74.00	-29.32 peak
4	*	2390.000	37.18	-2.03	35.15	54.00	-18.85 AVG

Mode1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: 01							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		2310.000	41.62	-2.66	38.96	74.00	-35.04 peak
2		2310.000	32.78	-2.66	30.12	54.00	-23.88 AVG
3		2390.000	42.98	-2.03	40.95	74.00	-33.05 peak
4	*	2390.000	33.44	-2.03	31.41	54.00	-22.59 AVG

Mode1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: 11

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	51.54	-1.91	49.63	74.00	-24.37	peak
2	*	2483.500	40.93	-1.91	39.02	54.00	-14.98	AVG
3		2500.000	50.86	-1.80	49.06	74.00	-24.94	peak
4		2500.000	40.31	-1.80	38.51	54.00	-15.49	AVG

Mode1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: 11

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	48.33	-1.91	46.42	74.00	-27.58	peak
2		2483.500	38.10	-1.91	36.19	54.00	-17.81	AVG
3		2500.000	47.92	-1.80	46.12	74.00	-27.88	peak
4	*	2500.000	38.25	-1.80	36.45	54.00	-17.55	AVG

Mode2 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: 01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2310.000	44.15	-2.66	41.49	74.00	-32.51	peak
2		2310.000	33.81	-2.66	31.15	54.00	-22.85	AVG
3		2390.000	55.02	-2.03	52.99	74.00	-21.01	peak
4	*	2390.000	39.24	-2.03	37.21	54.00	-16.79	AVG

Mode2 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: 01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2310.000	41.87	-2.66	39.21	74.00	-34.79	peak
2		2310.000	32.47	-2.66	29.81	54.00	-24.19	AVG
3		2390.000	45.52	-2.03	43.49	74.00	-30.51	peak
4	*	2390.000	34.59	-2.03	32.56	54.00	-21.44	AVG

Mode2 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: 11

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	51.07	-1.91	49.16	74.00	-24.84	peak
2	*	2483.500	40.22	-1.91	38.31	54.00	-15.69	AVG
3		2500.000	49.24	-1.80	47.44	74.00	-26.56	peak
4		2500.000	39.76	-1.80	37.96	54.00	-16.04	AVG

Mode2 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: 11

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	48.21	-1.91	46.30	74.00	-27.70	peak
2	*	2483.500	38.46	-1.91	36.55	54.00	-17.45	AVG
3		2500.000	47.89	-1.80	46.09	74.00	-27.91	peak
4		2500.000	37.98	-1.80	36.18	54.00	-17.82	AVG

Mode3 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: 01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2310.000	44.69	-2.66	42.03	74.00	-31.97	peak
2		2310.000	33.68	-2.66	31.02	54.00	-22.98	AVG
3		2390.000	53.70	-2.03	51.67	74.00	-22.33	peak
4	*	2390.000	40.05	-2.03	38.02	54.00	-15.98	AVG

Mode3 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: 01

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2310.000	41.69	-2.66	39.03	74.00	-34.97	peak
2		2310.000	32.90	-2.66	30.24	54.00	-23.76	AVG
3		2390.000	43.23	-2.03	41.20	74.00	-32.80	peak
4	*	2390.000	34.03	-2.03	32.00	54.00	-22.00	AVG

Mode3 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: 11

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	50.57	-1.91	48.66	74.00	-25.34	peak
2	*	2483.500	40.44	-1.91	38.53	54.00	-15.47	AVG
3		2500.000	48.92	-1.80	47.12	74.00	-26.88	peak
4		2500.000	39.97	-1.80	38.17	54.00	-15.83	AVG

Mode3 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: 11

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	47.63	-1.91	45.72	74.00	-28.28	peak
2	*	2483.500	38.32	-1.91	36.41	54.00	-17.59	AVG
3		2500.000	48.69	-1.80	46.89	74.00	-27.11	peak
4		2500.000	38.11	-1.80	36.31	54.00	-17.69	AVG

Mode4 / Polarization: Horizontal / Band: 2.4G / BW: 40 / CH: 03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2310.000	43.38	-2.66	40.72	74.00	-33.28	peak
2		2310.000	33.48	-2.66	30.82	54.00	-23.18	AVG
3		2390.000	56.80	-2.03	54.77	74.00	-19.23	peak
4	*	2390.000	44.21	-2.03	42.18	54.00	-11.82	AVG

Mode4 / Polarization: Vertical / Band: 2.4G / BW: 40 / CH: 03

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2310.000	42.17	-2.66	39.51	74.00	-34.49	peak
2		2310.000	32.37	-2.66	29.71	54.00	-24.29	AVG
3		2390.000	49.10	-2.03	47.07	74.00	-26.93	peak
4	*	2390.000	37.27	-2.03	35.24	54.00	-18.76	AVG

Mode4 / Polarization: Horizontal / Band: 2.4G / BW: 40 / CH: 09

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	47.64	-1.91	45.73	74.00	-28.27	peak
2	*	2483.500	38.57	-1.91	36.66	54.00	-17.34	AVG
3		2500.000	46.96	-1.80	45.16	74.00	-28.84	peak
4		2500.000	38.14	-1.80	36.34	54.00	-17.66	AVG

Mode4 / Polarization: Vertical / Band: 2.4G / BW: 40 / CH: 09

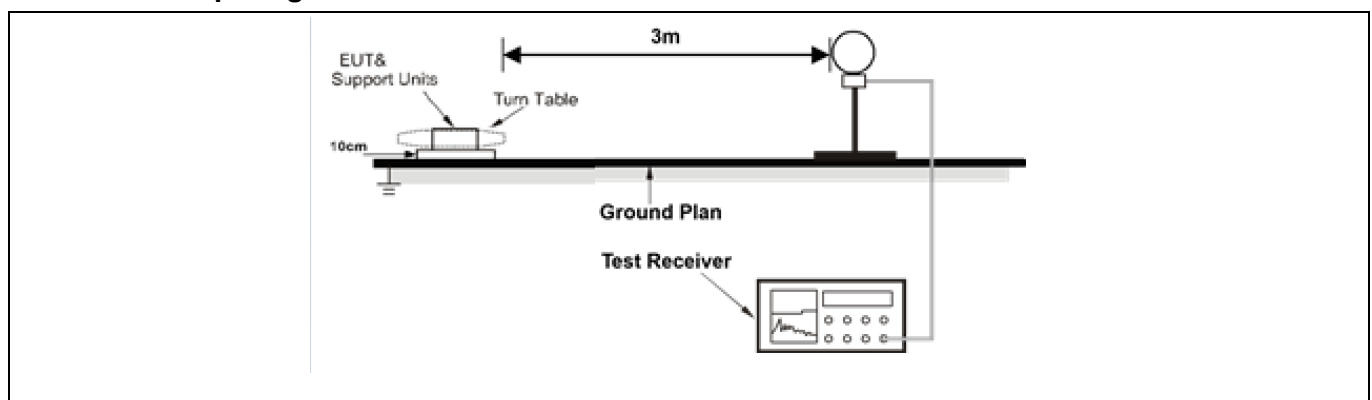
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	50.81	-1.91	48.90	74.00	-25.10	peak
2	*	2483.500	40.85	-1.91	38.94	54.00	-15.06	AVG
3		2500.000	49.52	-1.80	47.72	74.00	-26.28	peak
4		2500.000	39.97	-1.80	38.17	54.00	-15.83	AVG

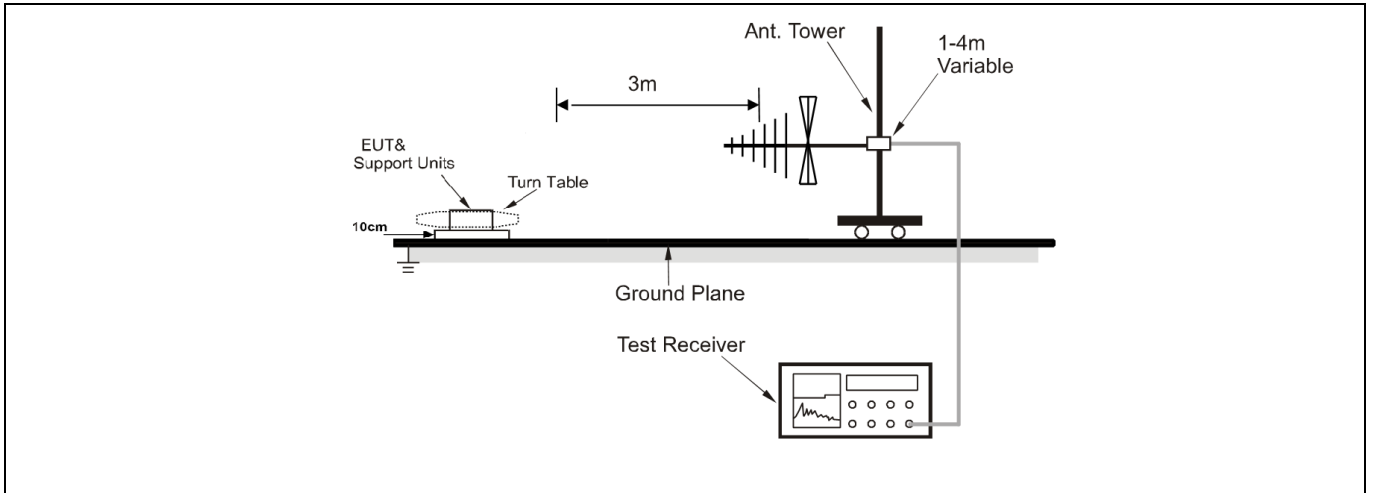
6.7 Radiated emissions (below 1GHz)

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.		
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:

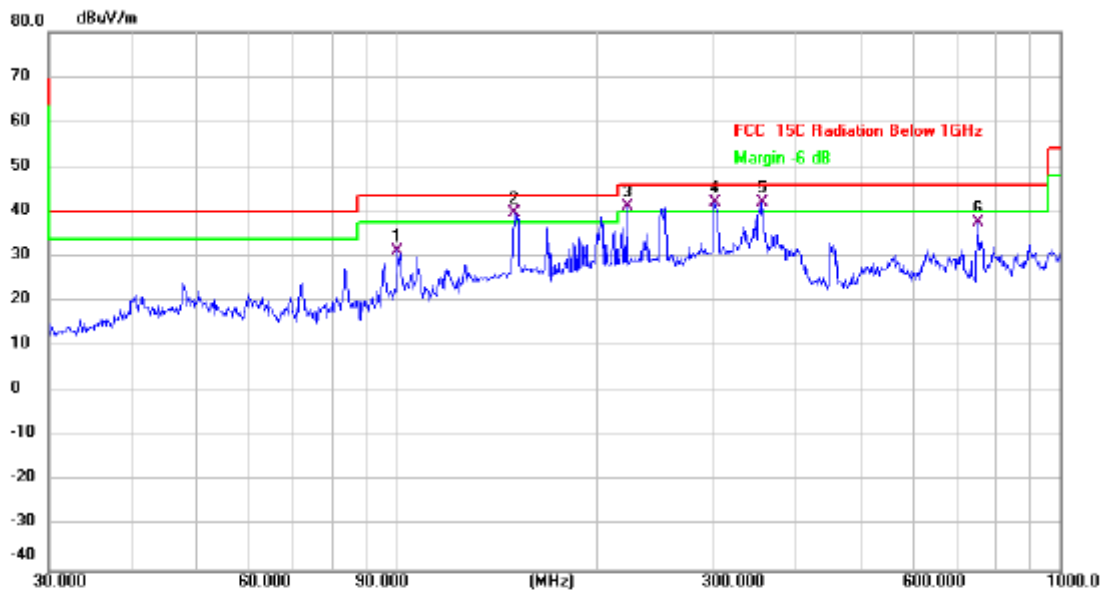
Operating Environment:			
Temperature:	16.3 °C	Humidity:	52.3 %
		Atmospheric Pressure:	99 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4		
Final test mode:	Mode1		
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the 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:




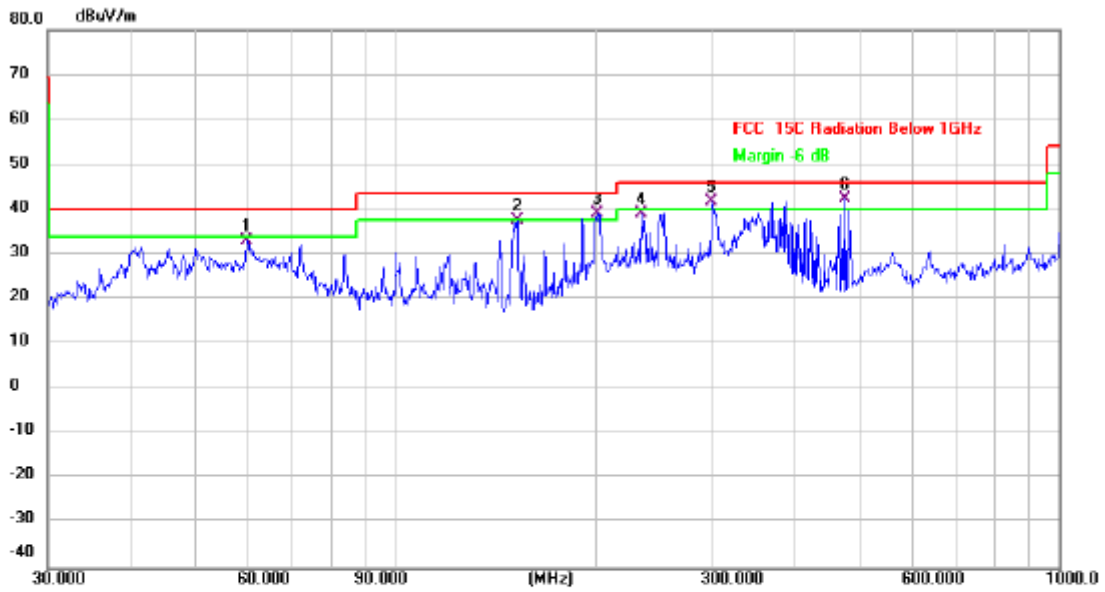
6.7.3 Test Data:

Mode1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: 11 / L100Pro



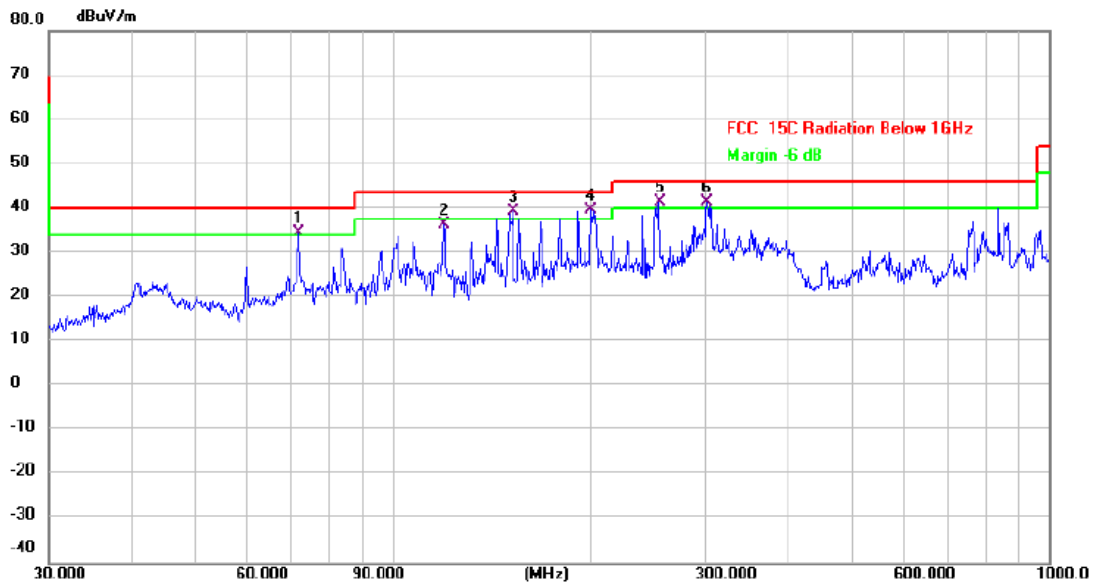
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		100.5806	39.93	-8.53	31.40	43.50	-12.10	QP	
2	!	150.5378	50.46	-10.94	39.52	43.50	-3.98	QP	
3	!	222.9502	49.52	-8.46	41.06	46.00	-4.94	QP	
4	!	301.4224	47.01	-5.01	42.00	46.00	-4.00	QP	
5	*	355.4273	47.69	-5.59	42.10	46.00	-3.90	QP	
6		750.1083	39.03	-1.37	37.66	46.00	-8.34	QP	

Mode1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: 11 / L100Pro



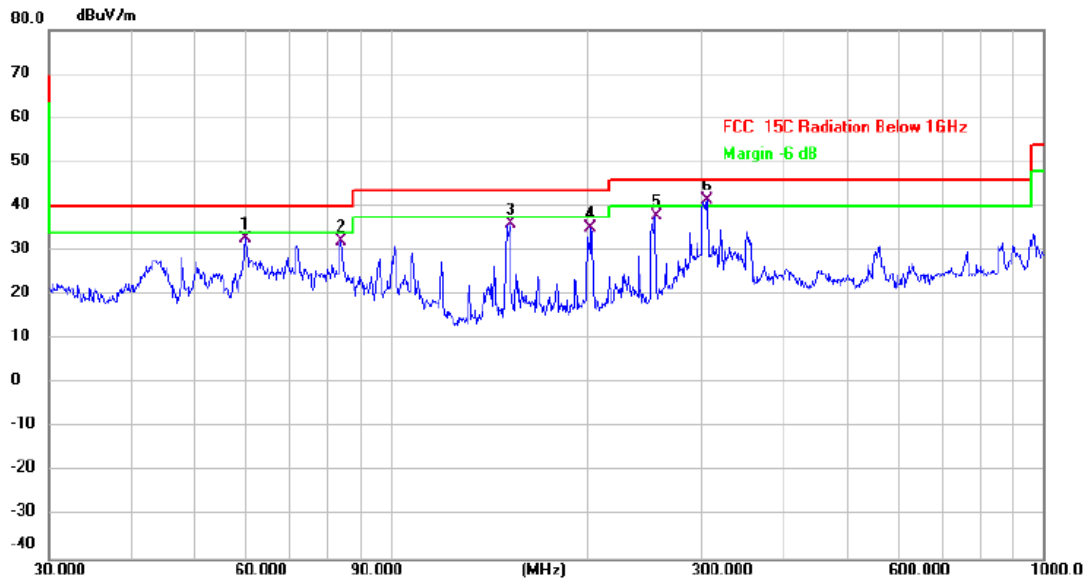
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		59.6493	42.78	-9.75	33.03	40.00	-6.97	QP	
2	!	152.6641	48.30	-10.71	37.59	43.50	-5.91	QP	
3	!	201.3930	45.61	-6.57	39.04	43.50	-4.46	QP	
4		234.9909	46.24	-7.11	39.13	46.00	-6.87	QP	
5	!	300.3672	46.39	-4.75	41.64	46.00	-4.36	QP	
6	*	475.4991	46.71	-4.32	42.39	46.00	-3.61	QP	

Mode1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: 11 / L200Pro



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	72.0841	45.90	-11.27	34.63	40.00	-5.37	QP	
2		119.8555	45.49	-9.22	36.27	43.50	-7.23	QP	
3	!	152.6640	49.96	-10.71	39.25	43.50	-4.25	QP	
4	*	200.6879	46.03	-6.32	39.71	43.50	-3.79	QP	
5	!	254.7282	49.09	-7.53	41.56	46.00	-4.44	QP	
6	!	301.4223	46.59	-5.01	41.58	46.00	-4.42	QP	

Mode1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: 11 / L200Pro



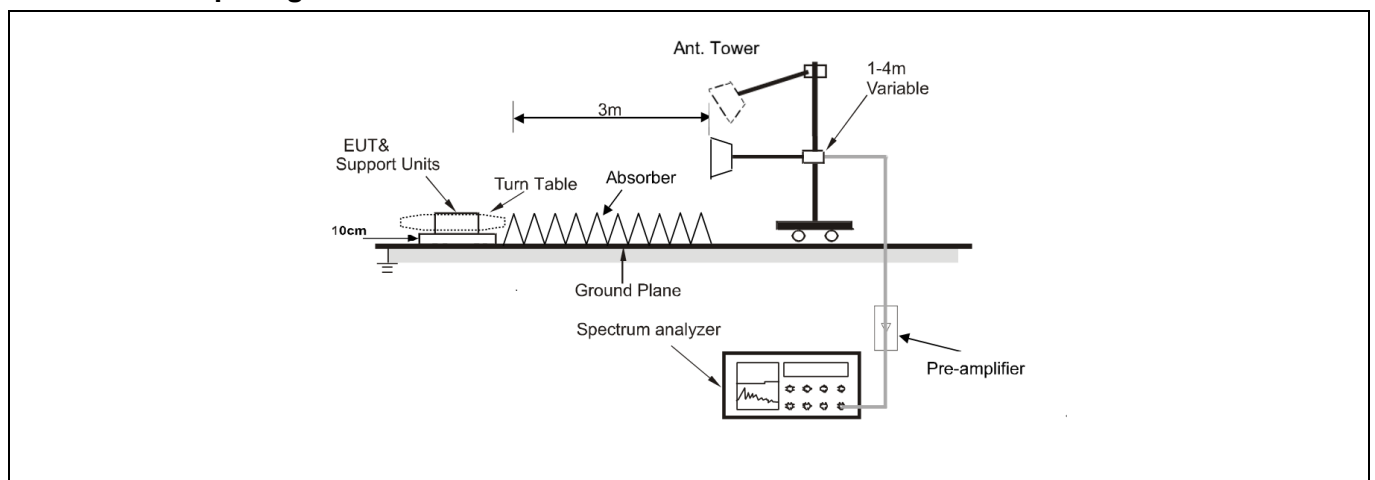
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		60.0690	42.53	-9.76	32.77	40.00	-7.23	QP	
2		84.1100	44.08	-12.05	32.03	40.00	-7.97	QP	
3		152.6640	46.87	-10.71	36.16	43.50	-7.34	QP	
4		202.8103	42.14	-7.06	35.08	43.50	-8.42	QP	
5		254.7282	45.29	-7.53	37.76	46.00	-8.24	QP	
6	*	305.6800	47.19	-5.84	41.35	46.00	-4.65	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.		
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:	16.3 °C	Humidity:	62.3 %
		Atmospheric Pressure:	99 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4		
Final test mode:	Mode1		
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 / Band: 2400-2483.5 MHz / BW: 20 / CH: 01								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4824.000	41.15	2.81	43.96	74.00	-30.04	peak
2		4824.000	34.64	2.81	37.45	54.00	-16.55	AVG
3		7206.000	40.02	9.34	49.36	74.00	-24.64	peak
4		7206.000	33.77	9.34	43.11	54.00	-10.89	AVG
5		9608.000	41.65	10.49	52.14	74.00	-21.86	peak
6	*	9608.000	36.36	10.49	46.85	54.00	-7.15	AVG

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: 01								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4824.000	40.22	2.81	43.03	74.00	-30.97	peak
2		4824.000	34.60	2.81	37.41	54.00	-16.59	AVG
3		7236.000	41.57	9.10	50.67	74.00	-23.33	peak
4		7236.000	35.28	9.10	44.38	54.00	-9.62	AVG
5		9648.000	41.53	10.98	52.51	74.00	-21.49	peak
6	*	9648.000	35.87	10.98	46.85	54.00	-7.15	AVG

Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: 06

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4874.000	41.45	3.02	44.47	74.00	-29.53	peak
2		4874.000	35.43	3.02	38.45	54.00	-15.55	AVG
3		7311.000	40.29	8.97	49.26	74.00	-24.74	peak
4		7311.000	33.84	8.97	42.81	54.00	-11.19	AVG
5		9748.000	40.69	11.95	52.64	74.00	-21.36	peak
6	*	9748.000	35.39	11.95	47.34	54.00	-6.66	AVG

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: 06

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4874.000	40.55	3.02	43.57	74.00	-30.43	peak
2		4874.000	34.47	3.02	37.49	54.00	-16.51	AVG
3		7311.000	40.88	8.97	49.85	74.00	-24.15	peak
4		7311.000	34.32	8.97	43.29	54.00	-10.71	AVG
5		9748.000	41.61	11.95	53.56	74.00	-20.44	peak
6	*	9748.000	35.98	11.95	47.93	54.00	-6.07	AVG

Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: 11

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4924.000	40.47	3.27	43.74	74.00	-30.26	peak
2		4924.000	34.14	3.27	37.41	54.00	-16.59	AVG
3		7386.000	41.31	9.16	50.47	74.00	-23.53	peak
4		7386.000	35.69	9.16	44.85	54.00	-9.15	AVG
5		9848.000	41.36	11.50	52.86	74.00	-21.14	peak
6	*	9848.000	35.93	11.50	47.43	54.00	-6.57	AVG

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: 11

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4924.000	40.37	3.27	43.64	74.00	-30.36	peak
2		4924.000	33.59	3.27	36.86	54.00	-17.14	AVG
3		7386.000	41.22	9.16	50.38	74.00	-23.62	peak
4		7386.000	34.79	9.16	43.95	54.00	-10.05	AVG
5		9848.000	41.20	11.50	52.70	74.00	-21.30	peak
6	*	9848.000	35.38	11.50	46.88	54.00	-7.12	AVG

Photographs of the test setup

Refer to Appendix – Test Setup Photo

Photographs of the EUT

Refer to Appendix - EUT Photos

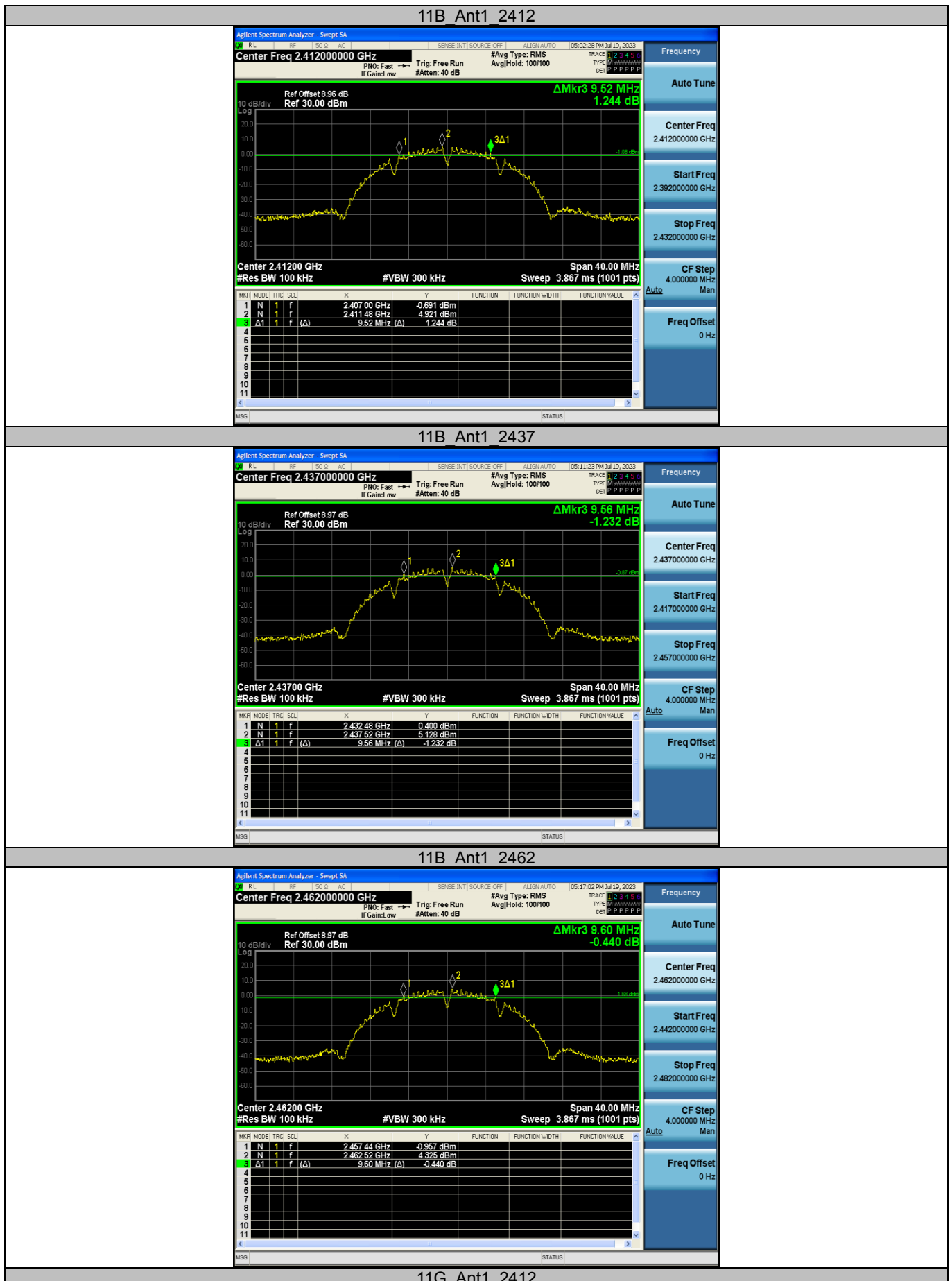
Appendix

Appendix A: DTS Bandwidth

Test Result

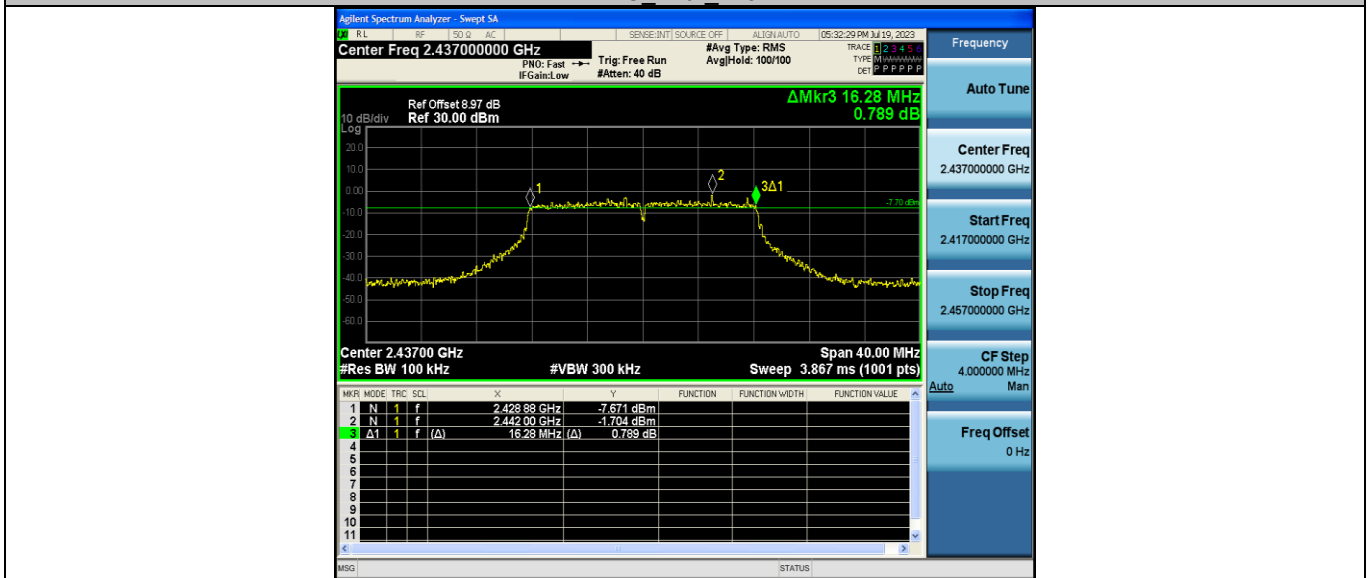
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	9.520	0.5	PASS
		2437	9.560	0.5	PASS
		2462	9.600	0.5	PASS
11G	Ant1	2412	16.320	0.5	PASS
		2437	16.280	0.5	PASS
		2462	16.320	0.5	PASS
11N20SISO	Ant1	2412	17.520	0.5	PASS
		2437	17.280	0.5	PASS
		2462	17.600	0.5	PASS
11N40SISO	Ant1	2422	35.840	0.5	PASS
		2437	35.120	0.5	PASS
		2452	35.040	0.5	PASS

Test Graphs

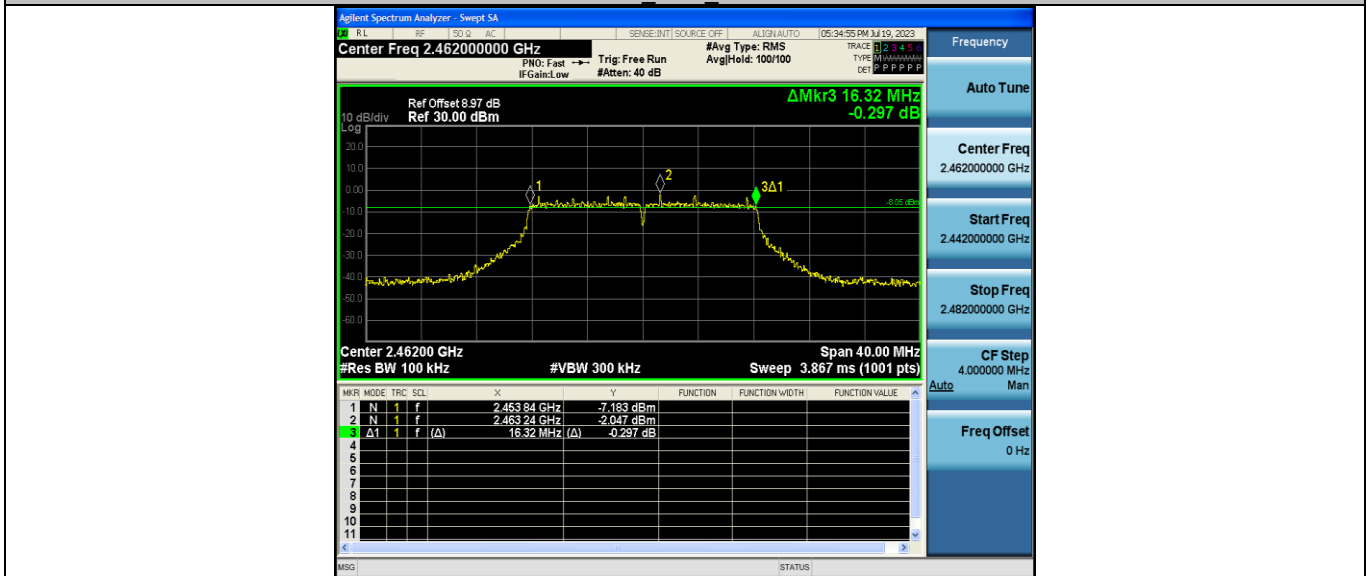




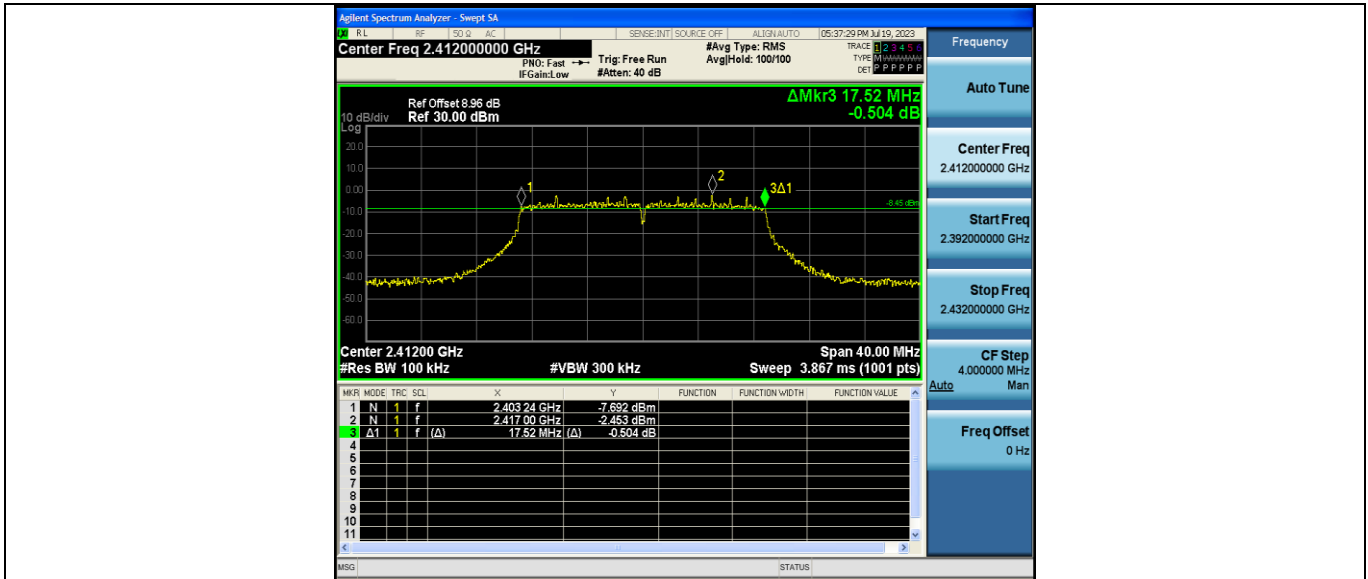
11G Ant1 2437



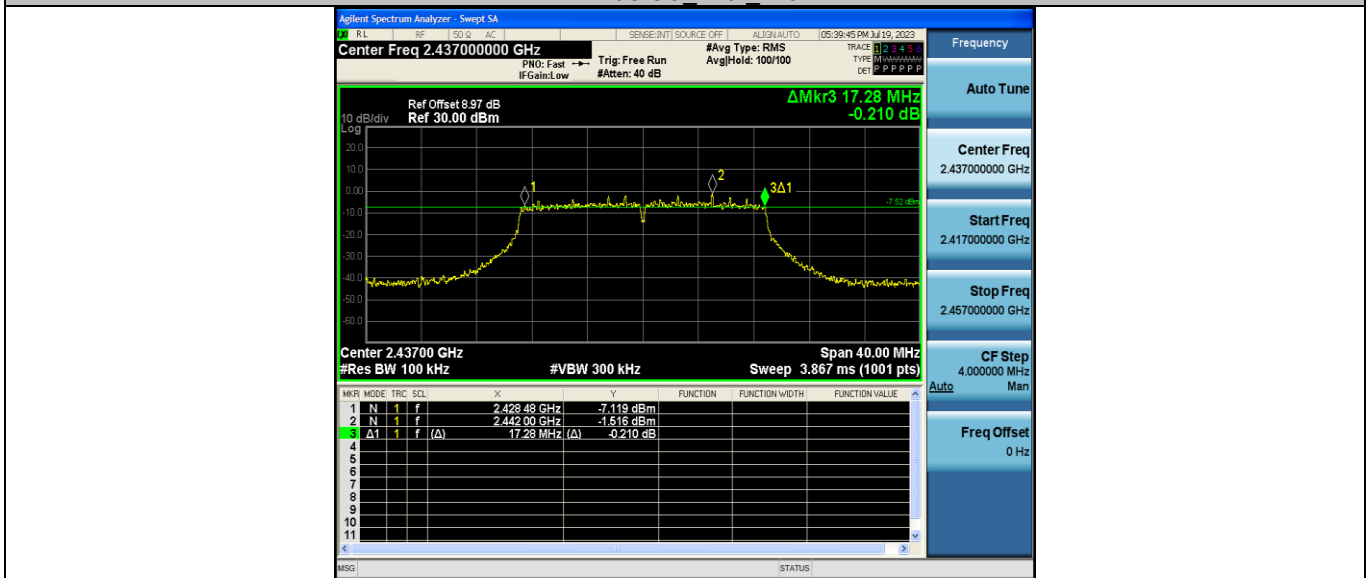
11G Ant1 2462



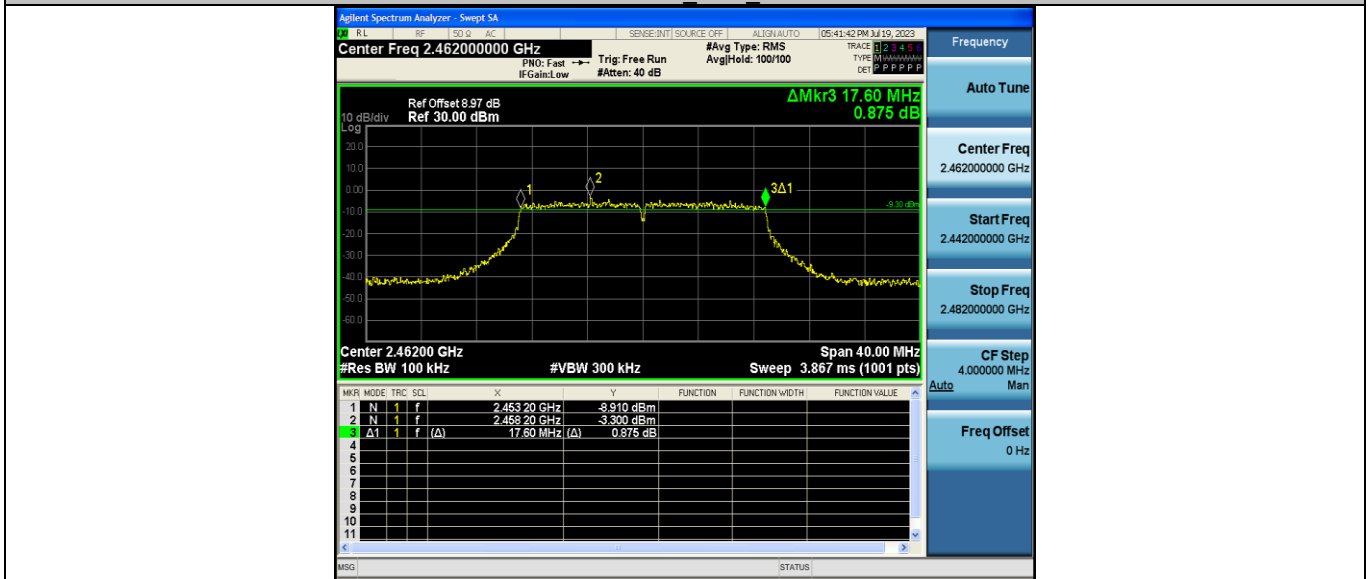
11N20SISO Ant1 2412



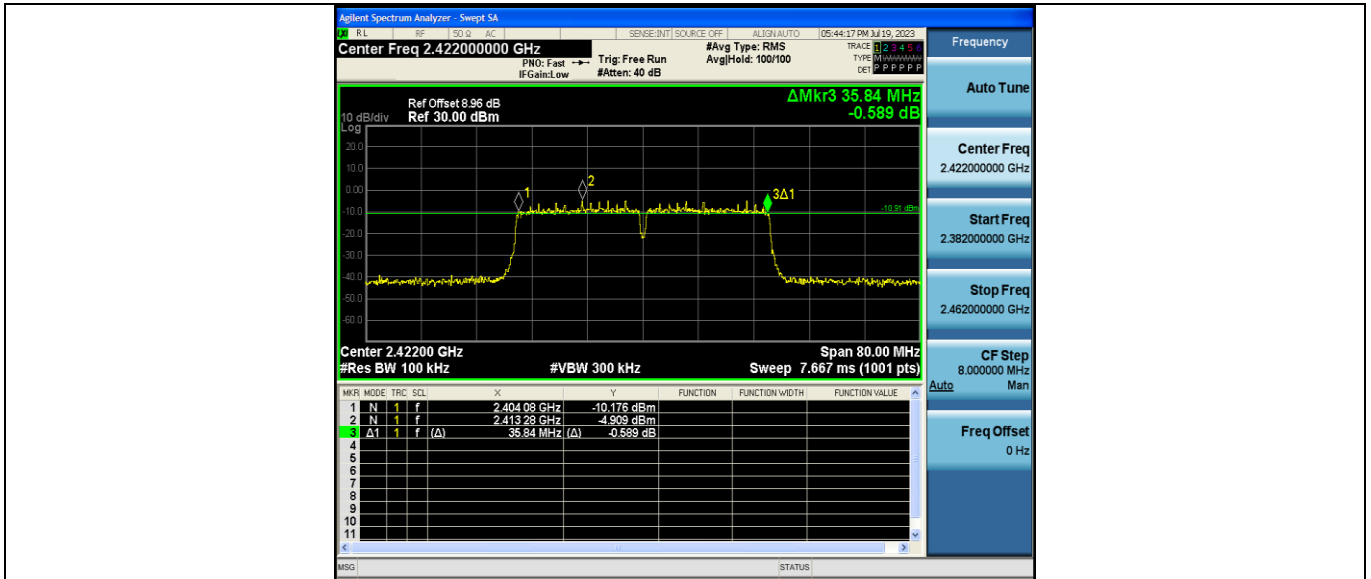
11N20SISO_Ant1_2437



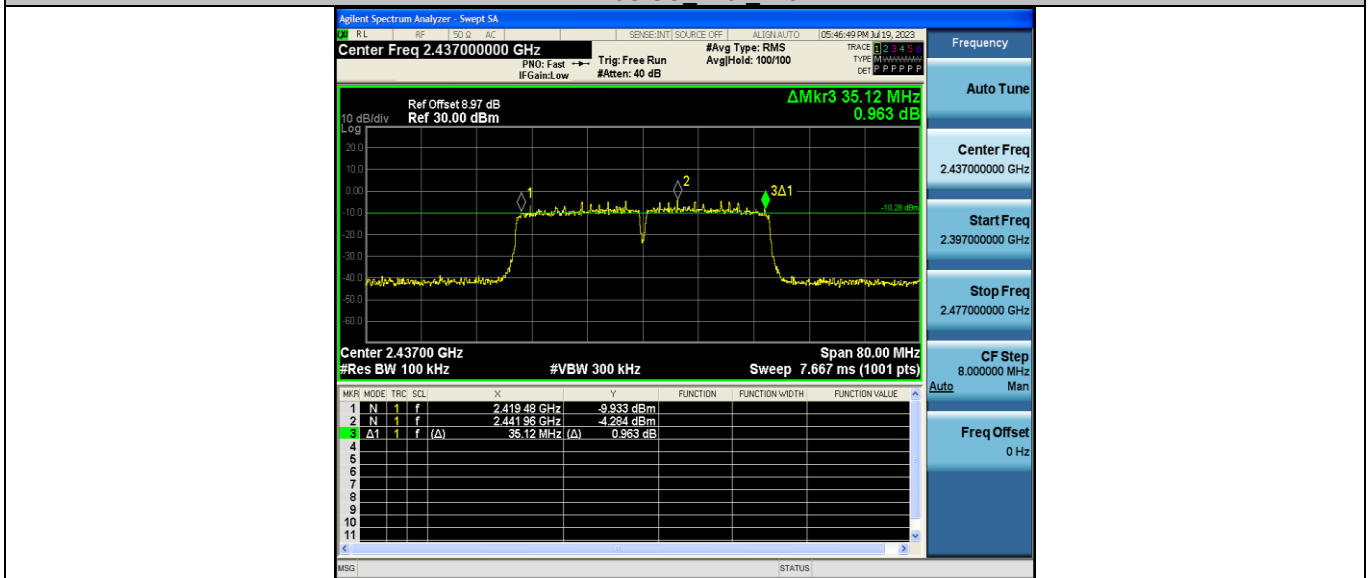
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

