



FCC TEST REPORT

FCC ID:2BMKZ-SOL-A01

Report Number..... : ZKT-24110414621E-3

Date of Test..... Nov. 11, 2024 to Nov. 21, 2024

Date of issue..... : Nov. 21, 2024

MIMO number of pages..... 109

Test Result..... : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Duoping Technologies HK Limited

Address Unit 1003, 10/F., Tower 2, Silvercord, 30 Canton Road, Tsim Sha Tsui, Kowloon HongKong China

Manufacturer's name : Duoping Technologies HK Limited

Address Unit 1003, 10/F., Tower 2, Silvercord, 30 Canton Road, Tsim Sha Tsui, Kowloon HongKong China

Test specification:

Standard..... FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-110_V0

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : INAIR Pod

Trademark : N/A

Model/Type reference..... : Sol-A01

Ratings..... : Input: 9V---2A
Battery: DC 3.85V, 5000mAh, 19.25Wh



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

**Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China**

Tested by (name + signature).....: Jim Liu

Reviewer (name + signature).....: Jackson Fang

Approved (name + signature).....: Lake Xie





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1. VERSION

ReportNo.	Version	Description	Approved
ZKT-24110414621E-3	Rev.01	Initial issue of report	Nov. 21, 2024



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	6DB Bandwidth	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	
ANSI C63.10:2013	Duty cycle	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033
CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ · where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ · providing a level of confidence of approximately 95 % .

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8MHz
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59°C



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	INAIIR Pod		
Model No.:	Sol-A01		
Model Different.:	N/A		
Serial No.:	N/A		
Sample ID	ZKT-24110414621E-3-1		
Sample(s) Status:	Engineer sample		
Channel numbers:	802.11b/g/n/ax (20M): 11CH 802.11n/ax (40M): 7CH		
Frequency Range:	802.11b/g/n/ax (20M): 2412MHz - 2462MHz 802.11n/ax (40M): 2412MHz - 2452MHz		
Channel separation:	5MHz		
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/n: Orthogonal Frequency Division Multiplexing(OFDM) 802.11ax: Orthogonal Frequency Division Multiple Access(OFDMA)		
Data Rate	802.11b: 1/2/5.5/11Mbit/s 802.11g: 6/9/12/24/18/36/48/54Mbit/s 802.11n: MCS0-MCS7 802.11ax: MCS0-MCS11		
Antenna Type:	FPC Antenna A&B		
Antenna gain:	SISO ANT A	SISO ANT B	MIMO A+B
	0.9dBi	-0.1dBi	3.42dBi
	Working in SISO model, then the antenna gain as below: SISO ANT A: 0.9dBi; SISO ANT B: -0.1dBi. Working in MIMO model, then the antenna gain as below: Directional gain = $10 \log[(10^{0.9/20} + 10^{-0.1/20})^2 / 2] = 3.42 \text{ dBi}$.		
Power supply:	Input: 9V $\overline{\text{---}}$ 2A		
Battery capacity:	DC 3.85V, 5000mAh, 19.25Wh		



3.2 DESCRIPTION OF TEST MODES

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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

Test channel	Frequency (MHz)	
	802.11b/g/n/ax (20M)	802.11n/ax (40M)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

Transmitting mode	Keep the EUT in continuously transmitting mode			
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.				
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows: For battery operated equipment, the equipment tests shall be performed using a new battery.				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n	802.11ax
Data rate	1Mbps	6Mbps	MCS0(HT0)	MCS0(HE0)

Test Software	Qualcomm Radio Control Tool
Power level setup	TxPowverAuto

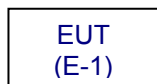


3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission



Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	INAIR Pod	N/A	Sol-A01	N/A	EUT
E-2	AC/DC Adapter	HUAWEI	HW-050450C00	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) EUT is tested with new battery.



3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Conduction Emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 30, 2024	Sep. 29, 2025
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 30, 2024	Sep. 29, 2025
3	Test Cable	N/A	C-01	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
4	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Sep. 29, 2024	Sep. 28, 2025
5	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation Emissions & Radiation Spurious Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 29, 2024	Sep. 28, 2025
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 30, 2024	Sep. 29, 2025
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Sep. 29, 2024	Sep. 28, 2025
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 30, 2024	Sep. 29, 2025
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 30, 2024	Sep. 29, 2025
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2024	Sep. 29, 2025
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Oct. 11, 2024	Oct. 10, 2025
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 29, 2024	Sep. 28, 2025
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 29, 2024	Sep. 28, 2025
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Sep. 30, 2024	Sep. 29, 2025
11	Test Cable	N/A	R-01	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
12	Test Cable	N/A	R-02	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
13	Test Cable	N/A	R-03	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
14	D.C. Power Supply	LongWei	TPR-6405D	GQ7516	N/A	Sep. 29, 2024	Sep. 28, 2025
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



RF Conducted Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 29, 2024	Sep. 28, 2025
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 30, 2024	Sep. 29, 2025
3	Test Cable	N/A	RF-01	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
4	Test Cable	N/A	RF-02	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
5	Test Cable	N/A	RF-03	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
6	ESG Signal Generator	Agilent	E4421B	GB40051203	B.03.84	Sep. 29, 2024	Sep. 28, 2025
7	Signal Generator	Agilent	N5182A	MY47420215	A.01.87	Sep. 29, 2024	Sep. 28, 2025
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Sep. 29, 2024	Sep. 28, 2025
9	Van der Hoofden measuring head	Schwarzbeck Mess-elektronik	VDHH 9502	9502-039	N/A	Sep. 30, 2024	Sep. 29, 2025
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 30, 2024	Sep. 29, 2025
11	MWRF Power Meter Test system	MW	MW100-RF CB	10371	N/A	Sep. 29, 2024	Sep. 28, 2025
12	Power Meter	KEYSIGHT	N1912AP	926431	A.05.00	Sep. 29, 2024	Sep. 28, 2025
13	D.C. Power Supply	LongWei	TPR-6405D	GQ7516	N/A	Sep. 29, 2024	Sep. 28, 2025
14	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

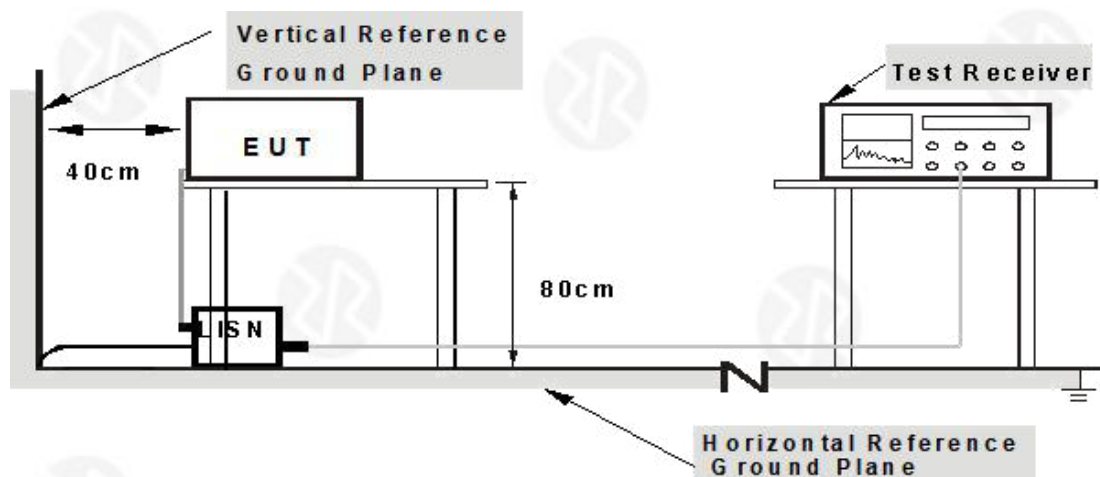
- The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



- Note:** 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

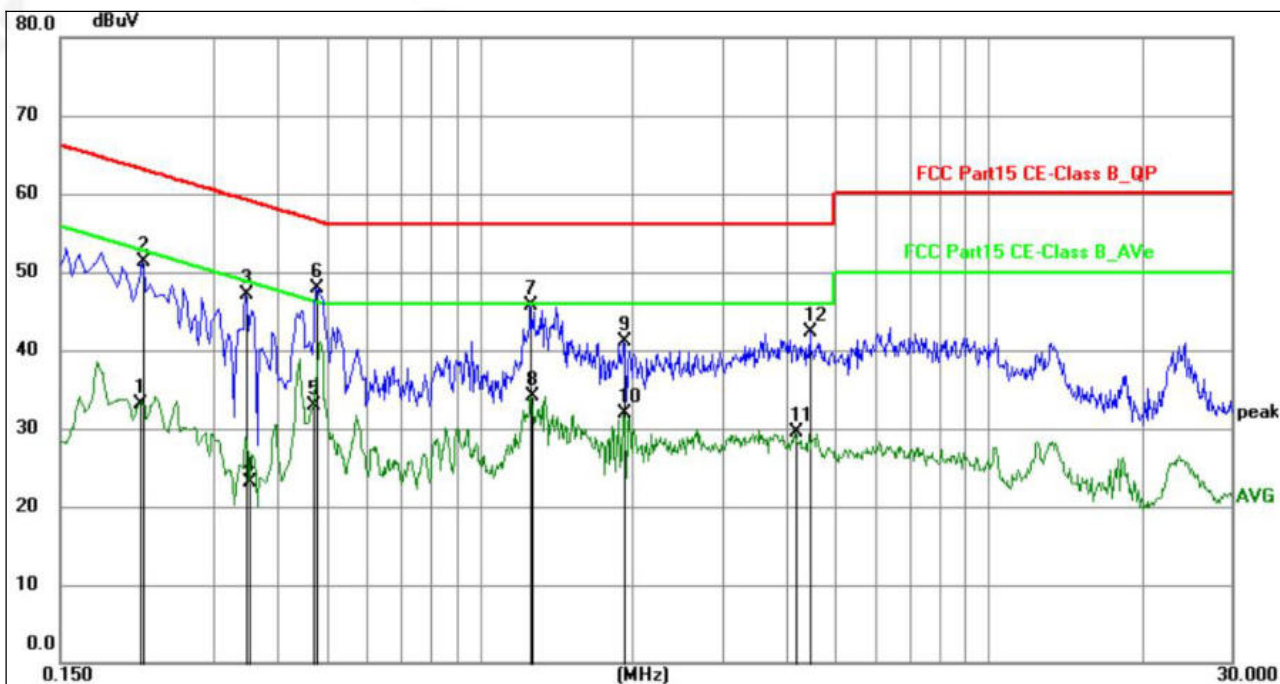
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULT

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	MIMO A+B 802.11n20 - 2412MHz



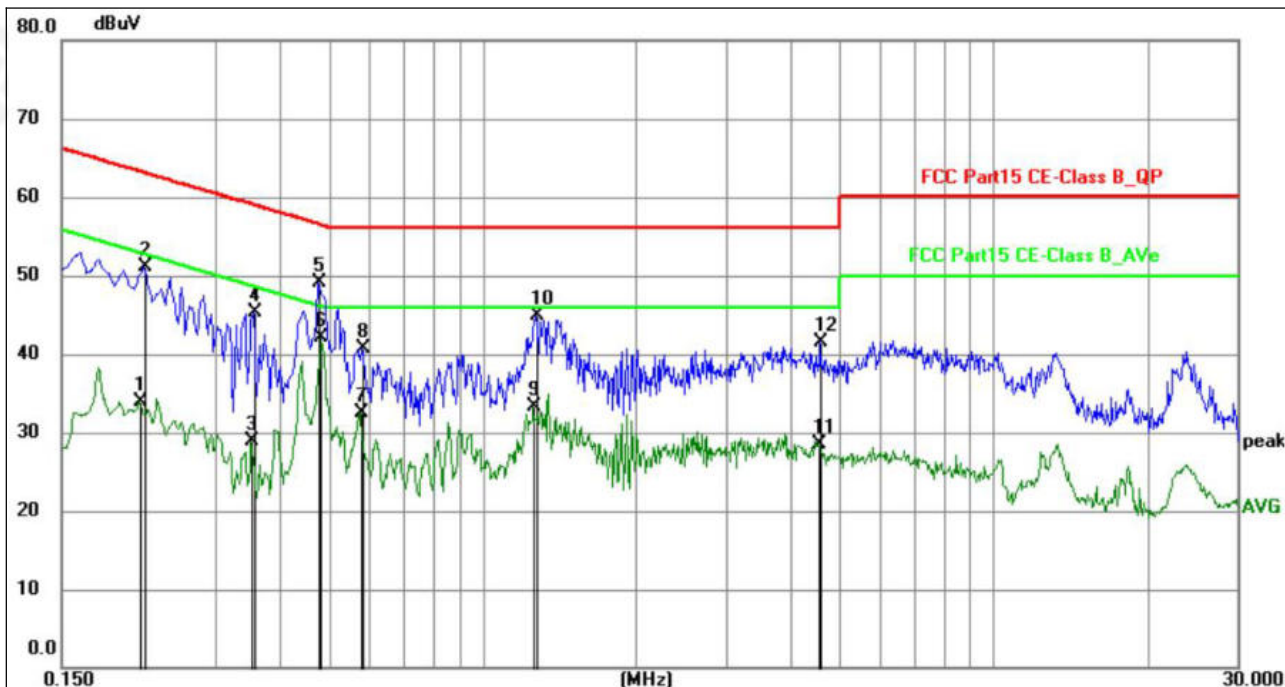
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2149	12.81	20.38	33.19	53.01	-19.82	AVG	P	
2	0.2174	30.95	20.38	51.33	62.92	-11.59	QP	P	
3	0.3478	26.67	20.34	47.01	59.01	-12.00	QP	P	
4	0.3523	2.76	20.33	23.09	48.91	-25.82	AVG	P	
5	0.4711	12.69	20.31	33.00	46.49	-13.49	AVG	P	
6	0.4783	27.52	20.31	47.83	56.37	-8.54	QP	P	
7	1.2614	25.33	20.31	45.64	56.00	-10.36	QP	P	
8	1.2659	13.80	20.31	34.11	46.00	-11.89	AVG	P	
9	1.9229	20.78	20.31	41.09	56.00	-14.91	QP	P	
10	1.9229	11.52	20.31	31.83	46.00	-14.17	AVG	P	
11	4.1595	9.09	20.35	29.44	46.00	-16.56	AVG	P	
12	4.4653	21.92	20.35	42.27	56.00	-13.73	QP	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor= Lish factor+ Cable loss factor + limiter factor.
5. Margin= Measurement Level-Limit.
6. Both SISO ANT A and ANT B passed the test, the test data shows only the worst case MIMO A+B 802.11n20 - 2412MHz.



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	MIMO A+B 802.11n20 - 2412MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2129	13.46	20.37	33.83	53.09	-19.26	AVG	P	
2	0.2174	30.64	20.37	51.01	62.92	-11.91	QP	P	
3	0.3523	8.51	20.33	28.84	48.91	-20.07	AVG	P	
4	0.3568	24.90	20.33	45.23	58.80	-13.57	QP	P	
5	0.4783	28.74	20.31	49.05	56.37	-7.32	QP	P	
6	0.4828	21.78	20.30	42.08	46.29	-4.21	AVG	P	
7	0.5774	12.16	20.30	32.46	46.00	-13.54	AVG	P	
8	0.5817	20.48	20.30	40.78	56.00	-15.22	QP	P	
9	1.2614	13.06	20.31	33.37	46.00	-12.63	AVG	P	
10	1.2746	24.50	20.31	44.81	56.00	-11.19	QP	P	
11	4.5373	8.19	20.34	28.53	46.00	-17.47	AVG	P	
12	4.5868	21.21	20.34	41.55	56.00	-14.45	QP	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor= Lisen factor+ Cable loss factor + limiter factor.
5. Margin= Measurement Level-Limit.
6. Both SISO ANT A and ANT B passed the test, the test data shows only the worst case MIMO A+B 802.11n20 - 2412MHz.



4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.1 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.



- c. 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.

Above 1GHz test procedure as below:

- g. Different from above is the test site, change from Semi-Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

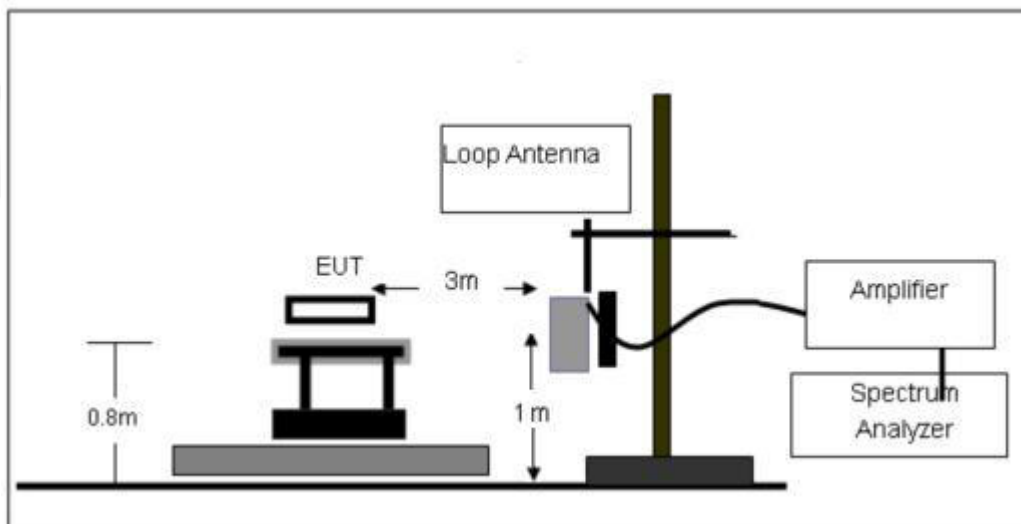
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

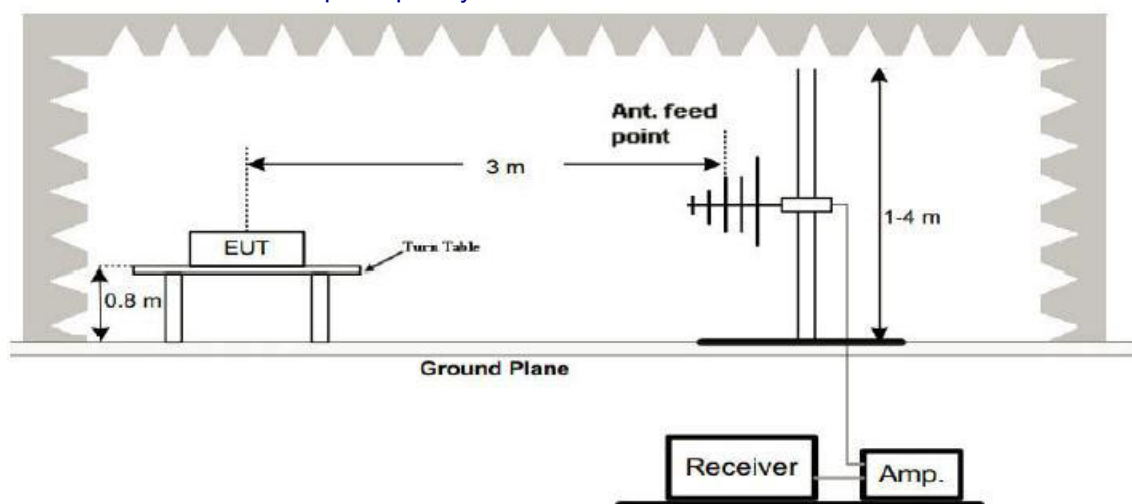
4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

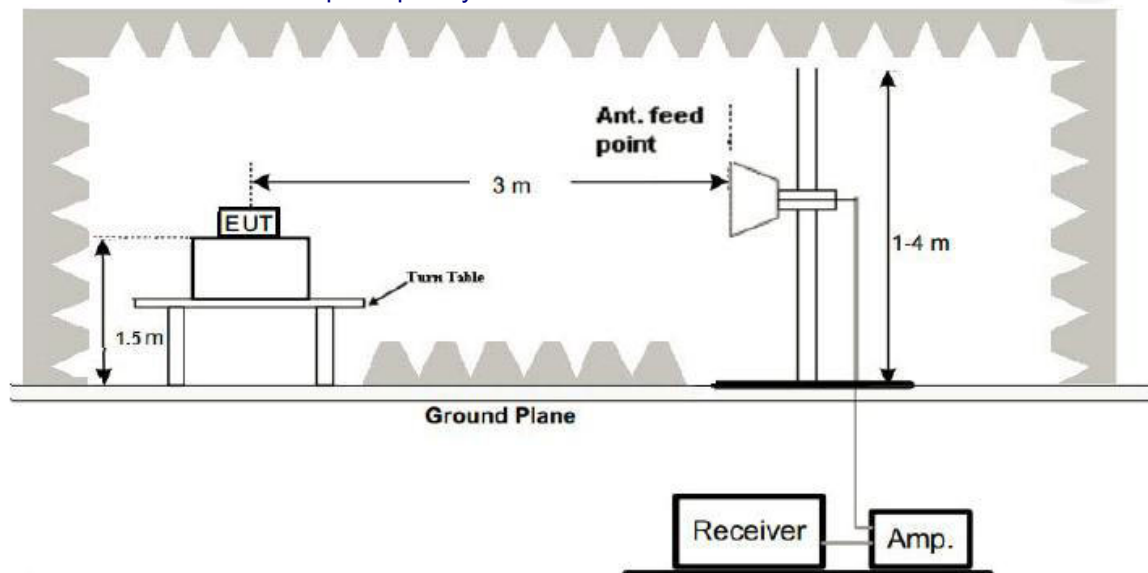




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS

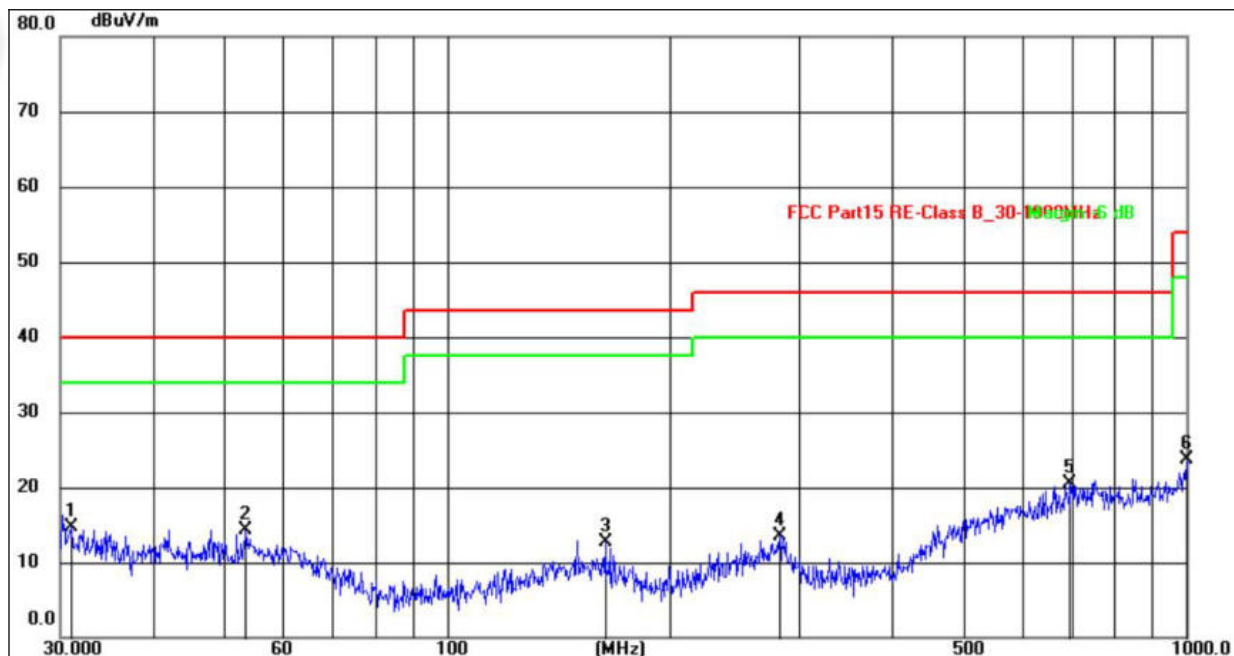
Between 9KHz – 30MHz

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



Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Test Mode :	MIMO A+B 802.11n20 - 2412MHz



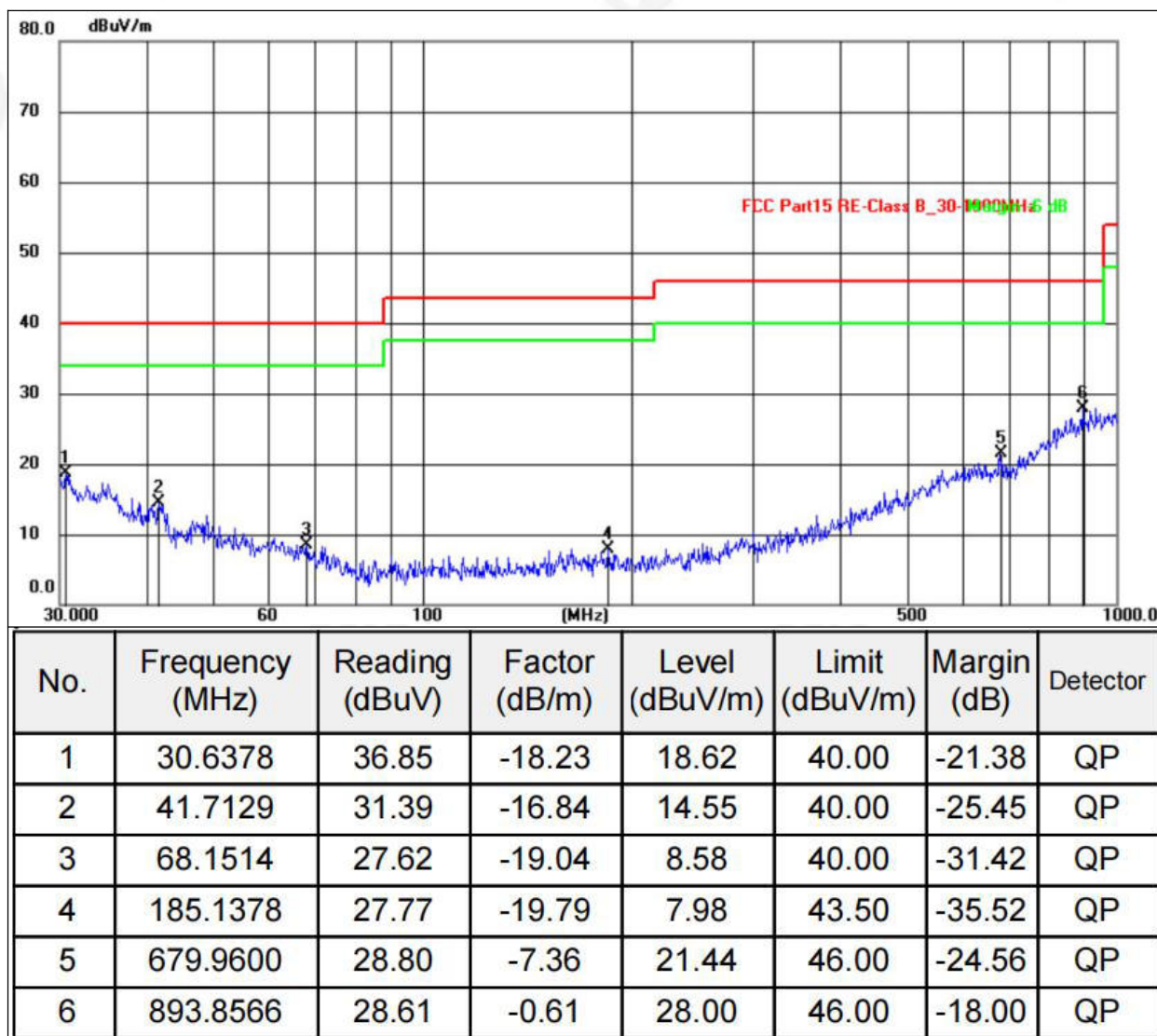
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.0706	29.00	-14.29	14.71	40.00	-25.29	QP
2	53.5052	28.21	-14.00	14.21	40.00	-25.79	QP
3	163.7549	29.02	-16.27	12.75	43.50	-30.75	QP
4	281.9945	27.78	-14.20	13.58	46.00	-32.42	QP
5	696.8567	26.96	-6.49	20.47	46.00	-25.53	QP
6	1000.0000	28.17	-4.56	23.61	54.00	-30.39	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor= Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin= Measurement Level-Limit.
7. Both SISO ANT A and ANT B passed the test, the test data shows only the worst case MIMO A+B 802.11n20 - 2412MHz.



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.85V	Test Mode :	MIMO A+B 802.11n20 - 2412MHz



Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor= Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin= Measurement Level-Limit.
7. Both SISO ANT A and ANT B passed the test, the test data shows only the worst case MIMO A+B 802.11n20 - 2412MHz.



1GHz~25GHz

SISO ANT A - 802.11b

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	53.56	30.55	5.77	24.66	53.44	74.00	-20.56	PK
V	4824.00	43.28	30.55	5.77	24.66	43.16	54.00	-10.84	AV
V	7236.00	50.05	30.33	6.32	24.55	50.59	74.00	-23.41	PK
V	7236.00	43.68	30.33	6.32	24.55	44.22	54.00	-9.78	AV
V	9648.00	53.38	30.85	7.45	24.69	54.67	74.00	-19.33	PK
V	9648.00	43.66	30.85	7.45	24.69	44.95	54.00	-9.05	AV
V	12060.00	54.68	31.02	8.99	25.57	58.22	74.00	-15.78	PK
V	12060.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV
H	4824.00	54.35	30.55	5.77	24.66	54.23	74.00	-19.77	PK
H	4824.00	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
H	7236.00	54.79	30.33	6.32	24.55	55.33	74.00	-18.67	PK
H	7236.00	43.54	30.33	6.32	24.55	44.08	54.00	-9.92	AV
H	9648.00	53.45	30.85	7.45	24.69	54.74	74.00	-19.26	PK
H	9648.00	43.96	30.85	7.45	24.69	45.25	54.00	-8.75	AV
H	12060.00	50.99	31.02	8.99	25.57	54.53	74.00	-19.47	PK
H	12060.00	43.63	31.02	8.99	25.57	47.17	54.00	-6.83	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	52.98	30.55	5.77	24.66	52.86	74.00	-21.14	PK
V	4874.00	43.05	30.55	5.77	24.66	42.93	54.00	-11.07	AV
V	7311.00	54.23	30.33	6.32	24.55	54.77	74.00	-19.23	PK
V	7311.00	43.80	30.33	6.32	24.55	44.34	54.00	-9.66	AV
V	9748.00	54.10	30.85	7.45	24.69	55.39	74.00	-18.61	PK
V	9748.00	43.92	30.85	7.45	24.69	45.21	54.00	-8.79	AV
V	12185.00	52.58	31.02	8.99	25.57	56.12	74.00	-17.88	PK
V	12185.00	43.57	31.02	8.99	25.57	47.11	54.00	-6.89	AV
H	4874.00	54.96	30.55	5.77	24.66	54.84	74.00	-19.16	PK
H	4874.00	43.29	30.55	5.77	24.66	43.17	54.00	-10.83	AV
H	7311.00	52.69	30.33	6.32	24.55	53.23	74.00	-20.77	PK
H	7311.00	43.13	30.33	6.32	24.55	43.67	54.00	-10.33	AV
H	9748.00	51.83	30.85	7.45	24.69	53.12	74.00	-20.88	PK
H	9748.00	43.73	30.85	7.45	24.69	45.02	54.00	-8.98	AV
H	12185.00	53.91	31.02	8.99	25.57	57.45	74.00	-16.55	PK
H	12185.00	43.60	31.02	8.99	25.57	47.14	54.00	-6.86	AV



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampli fier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
High Channel:2462MHz									
V	4924.00	53.09	30.55	5.77	24.66	52.97	74.00	-21.03	PK
V	4924.00	43.50	30.55	5.77	24.66	43.38	54.00	-10.62	AV
V	7386.00	51.06	30.33	6.32	24.55	51.60	74.00	-22.40	PK
V	7386.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
V	9848.00	52.42	30.85	7.45	24.69	53.71	74.00	-20.29	PK
V	9848.00	43.02	30.85	7.45	24.69	44.31	54.00	-9.69	AV
V	12310.00	51.86	31.02	8.99	25.57	55.40	74.00	-18.60	PK
V	12310.00	43.91	31.02	8.99	25.57	47.45	54.00	-6.55	AV
H	4924.00	52.32	30.55	5.77	24.66	52.20	74.00	-21.80	PK
H	4924.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
H	7386.00	52.25	30.33	6.32	24.55	52.79	74.00	-21.21	PK
H	7386.00	43.67	30.33	6.32	24.55	44.21	54.00	-9.79	AV
H	9848.00	53.02	30.85	7.45	24.69	54.31	74.00	-19.69	PK
H	9848.00	43.10	30.85	7.45	24.69	44.39	54.00	-9.61	AV
H	12310.00	53.61	31.02	8.99	25.57	57.15	74.00	-16.85	PK
H	12310.00	43.35	31.02	8.99	25.57	46.89	54.00	-7.11	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



SISO ANT B - 802.11b

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	50.49	30.55	5.77	24.66	50.37	74.00	-23.63	PK
V	4824.00	43.09	30.55	5.77	24.66	42.97	54.00	-11.03	AV
V	7236.00	51.99	30.33	6.32	24.55	52.53	74.00	-21.47	PK
V	7236.00	43.17	30.33	6.32	24.55	43.71	54.00	-10.29	AV
V	9648.00	50.57	30.85	7.45	24.69	51.86	74.00	-22.14	PK
V	9648.00	43.18	30.85	7.45	24.69	44.47	54.00	-9.53	AV
V	12060.00	52.77	31.02	8.99	25.57	56.31	74.00	-17.69	PK
V	12060.00	43.29	31.02	8.99	25.57	46.83	54.00	-7.17	AV
H	4824.00	51.77	30.55	5.77	24.66	51.65	74.00	-22.35	PK
H	4824.00	43.25	30.55	5.77	24.66	43.13	54.00	-10.87	AV
H	7236.00	51.95	30.33	6.32	24.55	52.49	74.00	-21.51	PK
H	7236.00	43.59	30.33	6.32	24.55	44.13	54.00	-9.87	AV
H	9648.00	51.33	30.85	7.45	24.69	52.62	74.00	-21.38	PK
H	9648.00	43.94	30.85	7.45	24.69	45.23	54.00	-8.77	AV
H	12060.00	51.17	31.02	8.99	25.57	54.71	74.00	-19.29	PK
H	12060.00	43.05	31.02	8.99	25.57	46.59	54.00	-7.41	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	50.00	30.55	5.77	24.66	49.88	74.00	-24.12	PK
V	4874.00	43.58	30.55	5.77	24.66	43.46	54.00	-10.54	AV
V	7311.00	53.17	30.33	6.32	24.55	53.71	74.00	-20.29	PK
V	7311.00	43.81	30.33	6.32	24.55	44.35	54.00	-9.65	AV
V	9748.00	53.50	30.85	7.45	24.69	54.79	74.00	-19.21	PK
V	9748.00	43.86	30.85	7.45	24.69	45.15	54.00	-8.85	AV
V	12185.00	51.29	31.02	8.99	25.57	54.83	74.00	-19.17	PK
V	12185.00	43.50	31.02	8.99	25.57	47.04	54.00	-6.96	AV
H	4874.00	54.61	30.55	5.77	24.66	54.49	74.00	-19.51	PK
H	4874.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
H	7311.00	51.24	30.33	6.32	24.55	51.78	74.00	-22.22	PK
H	7311.00	43.86	30.33	6.32	24.55	44.40	54.00	-9.60	AV
H	9748.00	54.81	30.85	7.45	24.69	56.10	74.00	-17.90	PK
H	9748.00	43.53	30.85	7.45	24.69	44.82	54.00	-9.18	AV
H	12185.00	54.58	31.02	8.99	25.57	58.12	74.00	-15.88	PK
H	12185.00	43.58	31.02	8.99	25.57	47.12	54.00	-6.88	AV



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampli fier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
High Channel:2462MHz									
V	4924.00	51.81	30.55	5.77	24.66	51.69	74.00	-22.31	PK
V	4924.00	43.73	30.55	5.77	24.66	43.61	54.00	-10.39	AV
V	7386.00	52.66	30.33	6.32	24.55	53.20	74.00	-20.80	PK
V	7386.00	43.71	30.33	6.32	24.55	44.25	54.00	-9.75	AV
V	9848.00	52.05	30.85	7.45	24.69	53.34	74.00	-20.66	PK
V	9848.00	43.83	30.85	7.45	24.69	45.12	54.00	-8.88	AV
V	12310.00	51.91	31.02	8.99	25.57	55.45	74.00	-18.55	PK
V	12310.00	43.64	31.02	8.99	25.57	47.18	54.00	-6.82	AV
H	4924.00	54.84	30.55	5.77	24.66	54.72	74.00	-19.28	PK
H	4924.00	43.30	30.55	5.77	24.66	43.18	54.00	-10.82	AV
H	7386.00	53.70	30.33	6.32	24.55	54.24	74.00	-19.76	PK
H	7386.00	43.85	30.33	6.32	24.55	44.39	54.00	-9.61	AV
H	9848.00	54.06	30.85	7.45	24.69	55.35	74.00	-18.65	PK
H	9848.00	43.50	30.85	7.45	24.69	44.79	54.00	-9.21	AV
H	12310.00	54.40	31.02	8.99	25.57	57.94	74.00	-16.06	PK
H	12310.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



SISO ANT A - 802.11g

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	51.66	30.55	5.77	24.66	51.54	74.00	-22.46	PK
V	4824.00	43.63	30.55	5.77	24.66	43.51	54.00	-10.49	AV
V	7236.00	50.61	30.33	6.32	24.55	51.15	74.00	-22.85	PK
V	7236.00	43.02	30.33	6.32	24.55	43.56	54.00	-10.44	AV
V	9648.00	53.46	30.85	7.45	24.69	54.75	74.00	-19.25	PK
V	9648.00	43.79	30.85	7.45	24.69	45.08	54.00	-8.92	AV
V	12060.00	51.59	31.02	8.99	25.57	55.13	74.00	-18.87	PK
V	12060.00	43.07	31.02	8.99	25.57	46.61	54.00	-7.39	AV
H	4824.00	51.88	30.55	5.77	24.66	51.76	74.00	-22.24	PK
H	4824.00	43.40	30.55	5.77	24.66	43.28	54.00	-10.72	AV
H	7236.00	50.98	30.33	6.32	24.55	51.52	74.00	-22.48	PK
H	7236.00	43.79	30.33	6.32	24.55	44.33	54.00	-9.67	AV
H	9648.00	51.88	30.85	7.45	24.69	53.17	74.00	-20.83	PK
H	9648.00	43.96	30.85	7.45	24.69	45.25	54.00	-8.75	AV
H	12060.00	50.59	31.02	8.99	25.57	54.13	74.00	-19.87	PK
H	12060.00	43.19	31.02	8.99	25.57	46.73	54.00	-7.27	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	53.59	30.55	5.77	24.66	53.47	74.00	-20.53	PK
V	4874.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
V	7311.00	51.14	30.33	6.32	24.55	51.68	74.00	-22.32	PK
V	7311.00	43.19	30.33	6.32	24.55	43.73	54.00	-10.27	AV
V	9748.00	52.92	30.85	7.45	24.69	54.21	74.00	-19.79	PK
V	9748.00	43.17	30.85	7.45	24.69	44.46	54.00	-9.54	AV
V	12185.00	53.54	31.02	8.99	25.57	57.08	74.00	-16.92	PK
V	12185.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV
H	4874.00	51.45	30.55	5.77	24.66	51.33	74.00	-22.67	PK
H	4874.00	43.75	30.55	5.77	24.66	43.63	54.00	-10.37	AV
H	7311.00	51.62	30.33	6.32	24.55	52.16	74.00	-21.84	PK
H	7311.00	43.83	30.33	6.32	24.55	44.37	54.00	-9.63	AV
H	9748.00	52.59	30.85	7.45	24.69	53.88	74.00	-20.12	PK
H	9748.00	43.71	30.85	7.45	24.69	45.00	54.00	-9.00	AV
H	12185.00	50.45	31.02	8.99	25.57	53.99	74.00	-20.01	PK
H	12185.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	51.21	30.55	5.77	24.66	51.09	74.00	-22.91	PK
V	4924.00	43.70	30.55	5.77	24.66	43.58	54.00	-10.42	AV
V	7386.00	53.92	30.33	6.32	24.55	54.46	74.00	-19.54	PK
V	7386.00	43.80	30.33	6.32	24.55	44.34	54.00	-9.66	AV
V	9848.00	50.98	30.85	7.45	24.69	52.27	74.00	-21.73	PK
V	9848.00	43.25	30.85	7.45	24.69	44.54	54.00	-9.46	AV
V	12310.00	53.26	31.02	8.99	25.57	56.80	74.00	-17.20	PK
V	12310.00	43.16	31.02	8.99	25.57	46.70	54.00	-7.30	AV
H	4924.00	51.79	30.55	5.77	24.66	51.67	74.00	-22.33	PK
H	4924.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
H	7386.00	53.16	30.33	6.32	24.55	53.70	74.00	-20.30	PK
H	7386.00	43.08	30.33	6.32	24.55	43.62	54.00	-10.38	AV
H	9848.00	52.19	30.85	7.45	24.69	53.48	74.00	-20.52	PK
H	9848.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
H	12310.00	53.42	31.02	8.99	25.57	56.96	74.00	-17.04	PK
H	12310.00	43.59	31.02	8.99	25.57	47.13	54.00	-6.87	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



SISO ANT B - 802.11g

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	53.12	30.55	5.77	24.66	53.00	74.00	-21.00	PK
V	4824.00	43.97	30.55	5.77	24.66	43.85	54.00	-10.15	AV
V	7236.00	51.44	30.33	6.32	24.55	51.98	74.00	-22.02	PK
V	7236.00	43.45	30.33	6.32	24.55	43.99	54.00	-10.01	AV
V	9648.00	51.87	30.85	7.45	24.69	53.16	74.00	-20.84	PK
V	9648.00	43.49	30.85	7.45	24.69	44.78	54.00	-9.22	AV
V	12060.00	52.88	31.02	8.99	25.57	56.42	74.00	-17.58	PK
V	12060.00	43.79	31.02	8.99	25.57	47.33	54.00	-6.67	AV
H	4824.00	50.06	30.55	5.77	24.66	49.94	74.00	-24.06	PK
H	4824.00	43.11	30.55	5.77	24.66	42.99	54.00	-11.01	AV
H	7236.00	51.06	30.33	6.32	24.55	51.60	74.00	-22.40	PK
H	7236.00	43.04	30.33	6.32	24.55	43.58	54.00	-10.42	AV
H	9648.00	50.58	30.85	7.45	24.69	51.87	74.00	-22.13	PK
H	9648.00	43.38	30.85	7.45	24.69	44.67	54.00	-9.33	AV
H	12060.00	53.02	31.02	8.99	25.57	56.56	74.00	-17.44	PK
H	12060.00	43.59	31.02	8.99	25.57	47.13	54.00	-6.87	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	54.52	30.55	5.77	24.66	54.40	74.00	-19.60	PK
V	4874.00	43.68	30.55	5.77	24.66	43.56	54.00	-10.44	AV
V	7311.00	53.04	30.33	6.32	24.55	53.58	74.00	-20.42	PK
V	7311.00	43.09	30.33	6.32	24.55	43.63	54.00	-10.37	AV
V	9748.00	50.42	30.85	7.45	24.69	51.71	74.00	-22.29	PK
V	9748.00	43.08	30.85	7.45	24.69	44.37	54.00	-9.63	AV
V	12185.00	52.06	31.02	8.99	25.57	55.60	74.00	-18.40	PK
V	12185.00	43.82	31.02	8.99	25.57	47.36	54.00	-6.64	AV
H	4874.00	54.55	30.55	5.77	24.66	54.43	74.00	-19.57	PK
H	4874.00	43.36	30.55	5.77	24.66	43.24	54.00	-10.76	AV
H	7311.00	52.28	30.33	6.32	24.55	52.82	74.00	-21.18	PK
H	7311.00	43.49	30.33	6.32	24.55	44.03	54.00	-9.97	AV
H	9748.00	51.73	30.85	7.45	24.69	53.02	74.00	-20.98	PK
H	9748.00	43.95	30.85	7.45	24.69	45.24	54.00	-8.76	AV
H	12185.00	54.70	31.02	8.99	25.57	58.24	74.00	-15.76	PK
H	12185.00	43.33	31.02	8.99	25.57	46.87	54.00	-7.13	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	52.74	30.55	5.77	24.66	52.62	74.00	-21.38	PK
V	4924.00	43.54	30.55	5.77	24.66	43.42	54.00	-10.58	AV
V	7386.00	52.99	30.33	6.32	24.55	53.53	74.00	-20.47	PK
V	7386.00	43.76	30.33	6.32	24.55	44.30	54.00	-9.70	AV
V	9848.00	51.10	30.85	7.45	24.69	52.39	74.00	-21.61	PK
V	9848.00	43.88	30.85	7.45	24.69	45.17	54.00	-8.83	AV
V	12310.00	52.53	31.02	8.99	25.57	56.07	74.00	-17.93	PK
V	12310.00	43.05	31.02	8.99	25.57	46.59	54.00	-7.41	AV
H	4924.00	52.83	30.55	5.77	24.66	52.71	74.00	-21.29	PK
H	4924.00	43.49	30.55	5.77	24.66	43.37	54.00	-10.63	AV
H	7386.00	51.84	30.33	6.32	24.55	52.38	74.00	-21.62	PK
H	7386.00	43.96	30.33	6.32	24.55	44.50	54.00	-9.50	AV
H	9848.00	51.61	30.85	7.45	24.69	52.90	74.00	-21.10	PK
H	9848.00	43.35	30.85	7.45	24.69	44.64	54.00	-9.36	AV
H	12310.00	53.02	31.02	8.99	25.57	56.56	74.00	-17.44	PK
H	12310.00	43.58	31.02	8.99	25.57	47.12	54.00	-6.88	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



SISO ANT A - 802.11n20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	54.22	30.55	5.77	24.66	54.10	74.00	-19.90	PK
V	4824.00	43.41	30.55	5.77	24.66	43.29	54.00	-10.71	AV
V	7236.00	50.62	30.33	6.32	24.55	51.16	74.00	-22.84	PK
V	7236.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
V	9648.00	54.37	30.85	7.45	24.69	55.66	74.00	-18.34	PK
V	9648.00	43.71	30.85	7.45	24.69	45.00	54.00	-9.00	AV
V	12060.00	53.43	31.02	8.99	25.57	56.97	74.00	-17.03	PK
V	12060.00	43.90	31.02	8.99	25.57	47.44	54.00	-6.56	AV
H	4824.00	50.73	30.55	5.77	24.66	50.61	74.00	-23.39	PK
H	4824.00	43.67	30.55	5.77	24.66	43.55	54.00	-10.45	AV
H	7236.00	52.87	30.33	6.32	24.55	53.41	74.00	-20.59	PK
H	7236.00	43.43	30.33	6.32	24.55	43.97	54.00	-10.03	AV
H	9648.00	53.68	30.85	7.45	24.69	54.97	74.00	-19.03	PK
H	9648.00	43.23	30.85	7.45	24.69	44.52	54.00	-9.48	AV
H	12060.00	50.27	31.02	8.99	25.57	53.81	74.00	-20.19	PK
H	12060.00	43.15	31.02	8.99	25.57	46.69	54.00	-7.31	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	51.50	30.55	5.77	24.66	51.38	74.00	-22.62	PK
V	4874.00	43.70	30.55	5.77	24.66	43.58	54.00	-10.42	AV
V	7311.00	50.66	30.33	6.32	24.55	51.20	74.00	-22.80	PK
V	7311.00	43.10	30.33	6.32	24.55	43.64	54.00	-10.36	AV
V	9748.00	54.13	30.85	7.45	24.69	55.42	74.00	-18.58	PK
V	9748.00	43.78	30.85	7.45	24.69	45.07	54.00	-8.93	AV
V	12185.00	52.84	31.02	8.99	25.57	56.38	74.00	-17.62	PK
V	12185.00	43.19	31.02	8.99	25.57	46.73	54.00	-7.27	AV
H	4874.00	50.16	30.55	5.77	24.66	50.04	74.00	-23.96	PK
H	4874.00	43.38	30.55	5.77	24.66	43.26	54.00	-10.74	AV
H	7311.00	53.16	30.33	6.32	24.55	53.70	74.00	-20.30	PK
H	7311.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
H	9748.00	52.41	30.85	7.45	24.69	53.70	74.00	-20.30	PK
H	9748.00	43.55	30.85	7.45	24.69	44.84	54.00	-9.16	AV
H	12185.00	52.81	31.02	8.99	25.57	56.35	74.00	-17.65	PK
H	12185.00	43.47	31.02	8.99	25.57	47.01	54.00	-6.99	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	54.63	30.55	5.77	24.66	54.51	74.00	-19.49	PK
V	4924.00	43.46	30.55	5.77	24.66	43.34	54.00	-10.66	AV
V	7386.00	52.53	30.33	6.32	24.55	53.07	74.00	-20.93	PK
V	7386.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
V	9848.00	50.69	30.85	7.45	24.69	51.98	74.00	-22.02	PK
V	9848.00	43.20	30.85	7.45	24.69	44.49	54.00	-9.51	AV
V	12310.00	50.89	31.02	8.99	25.57	54.43	74.00	-19.57	PK
V	12310.00	43.76	31.02	8.99	25.57	47.30	54.00	-6.70	AV
H	4924.00	54.67	30.55	5.77	24.66	54.55	74.00	-19.45	PK
H	4924.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
H	7386.00	53.66	30.33	6.32	24.55	54.20	74.00	-19.80	PK
H	7386.00	43.47	30.33	6.32	24.55	44.01	54.00	-9.99	AV
H	9848.00	50.72	30.85	7.45	24.69	52.01	74.00	-21.99	PK
H	9848.00	43.07	30.85	7.45	24.69	44.36	54.00	-9.64	AV
H	12310.00	51.45	31.02	8.99	25.57	54.99	74.00	-19.01	PK
H	12310.00	43.61	31.02	8.99	25.57	47.15	54.00	-6.85	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.



MIMO A+B - 802.11n20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	53.58	30.55	5.77	24.66	53.46	74.00	-20.54	PK
V	4824.00	43.79	30.55	5.77	24.66	43.67	54.00	-10.33	AV
V	7236.00	52.66	30.33	6.32	24.55	53.20	74.00	-20.80	PK
V	7236.00	43.86	30.33	6.32	24.55	44.40	54.00	-9.60	AV
V	9648.00	50.66	30.85	7.45	24.69	51.95	74.00	-22.05	PK
V	9648.00	43.05	30.85	7.45	24.69	44.34	54.00	-9.66	AV
V	12060.00	52.11	31.02	8.99	25.57	55.65	74.00	-18.35	PK
V	12060.00	43.34	31.02	8.99	25.57	46.88	54.00	-7.12	AV
H	4824.00	51.38	30.55	5.77	24.66	51.26	74.00	-22.74	PK
H	4824.00	43.61	30.55	5.77	24.66	43.49	54.00	-10.51	AV
H	7236.00	54.86	30.33	6.32	24.55	55.40	74.00	-18.60	PK
H	7236.00	43.27	30.33	6.32	24.55	43.81	54.00	-10.19	AV
H	9648.00	53.63	30.85	7.45	24.69	54.92	74.00	-19.08	PK
H	9648.00	43.26	30.85	7.45	24.69	44.55	54.00	-9.45	AV
H	12060.00	52.12	31.02	8.99	25.57	55.66	74.00	-18.34	PK
H	12060.00	43.63	31.02	8.99	25.57	47.17	54.00	-6.83	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	52.17	30.55	5.77	24.66	52.05	74.00	-21.95	PK
V	4874.00	43.01	30.55	5.77	24.66	42.89	54.00	-11.11	AV
V	7311.00	52.71	30.33	6.32	24.55	53.25	74.00	-20.75	PK
V	7311.00	43.44	30.33	6.32	24.55	43.98	54.00	-10.02	AV
V	9748.00	53.81	30.85	7.45	24.69	55.10	74.00	-18.90	PK
V	9748.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
V	12185.00	53.54	31.02	8.99	25.57	57.08	74.00	-16.92	PK
V	12185.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV
H	4874.00	50.83	30.55	5.77	24.66	50.71	74.00	-23.29	PK
H	4874.00	43.92	30.55	5.77	24.66	43.80	54.00	-10.20	AV
H	7311.00	50.93	30.33	6.32	24.55	51.47	74.00	-22.53	PK
H	7311.00	43.30	30.33	6.32	24.55	43.84	54.00	-10.16	AV
H	9748.00	53.94	30.85	7.45	24.69	55.23	74.00	-18.77	PK
H	9748.00	43.06	30.85	7.45	24.69	44.35	54.00	-9.65	AV
H	12185.00	53.34	31.02	8.99	25.57	56.88	74.00	-17.12	PK
H	12185.00	43.21	31.02	8.99	25.57	46.75	54.00	-7.25	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.20	30.55	5.77	24.66	50.08	74.00	-23.92	PK
V	4924.00	43.25	30.55	5.77	24.66	43.13	54.00	-10.87	AV
V	7386.00	51.18	30.33	6.32	24.55	51.72	74.00	-22.28	PK
V	7386.00	43.35	30.33	6.32	24.55	43.89	54.00	-10.11	AV
V	9848.00	54.23	30.85	7.45	24.69	55.52	74.00	-18.48	PK
V	9848.00	43.89	30.85	7.45	24.69	45.18	54.00	-8.82	AV
V	12310.00	54.16	31.02	8.99	25.57	57.70	74.00	-16.30	PK
V	12310.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV
H	4924.00	52.47	30.55	5.77	24.66	52.35	74.00	-21.65	PK
H	4924.00	43.79	30.55	5.77	24.66	43.67	54.00	-10.33	AV
H	7386.00	54.86	30.33	6.32	24.55	55.40	74.00	-18.60	PK
H	7386.00	43.98	30.33	6.32	24.55	44.52	54.00	-9.48	AV
H	9848.00	53.04	30.85	7.45	24.69	54.33	74.00	-19.67	PK
H	9848.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
H	12310.00	54.07	31.02	8.99	25.57	57.61	74.00	-16.39	PK
H	12310.00	43.10	31.02	8.99	25.57	46.64	54.00	-7.36	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



SISO ANT A - 802.11n40

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2422MHz									
V	4844.00	54.00	30.55	5.77	24.66	53.88	74.00	-20.12	PK
V	4844.00	43.83	30.55	5.77	24.66	43.71	54.00	-10.29	AV
V	7266.00	52.08	30.33	6.32	24.55	52.62	74.00	-21.38	PK
V	7266.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
V	9688.00	54.99	30.85	7.45	24.69	56.28	74.00	-17.72	PK
V	9688.00	43.43	30.85	7.45	24.69	44.72	54.00	-9.28	AV
V	12110.00	53.66	31.02	8.99	25.57	57.20	74.00	-16.80	PK
V	12110.00	43.85	31.02	8.99	25.57	47.39	54.00	-6.61	AV
H	4844.00	54.50	30.55	5.77	24.66	54.38	74.00	-19.62	PK
H	4844.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
H	7266.00	50.14	30.33	6.32	24.55	50.68	74.00	-23.32	PK
H	7266.00	43.29	30.33	6.32	24.55	43.83	54.00	-10.17	AV
H	9688.00	52.84	30.85	7.45	24.69	54.13	74.00	-19.87	PK
H	9688.00	43.08	30.85	7.45	24.69	44.37	54.00	-9.63	AV
H	12110.00	54.21	31.02	8.99	25.57	57.75	74.00	-16.25	PK
H	12110.00	43.02	31.02	8.99	25.57	46.56	54.00	-7.44	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	51.71	30.55	5.77	24.66	51.59	74.00	-22.41	PK
V	4874.00	43.30	30.55	5.77	24.66	43.18	54.00	-10.82	AV
V	7311.00	50.03	30.33	6.32	24.55	50.57	74.00	-23.43	PK
V	7311.00	43.10	30.33	6.32	24.55	43.64	54.00	-10.36	AV
V	9748.00	50.30	30.85	7.45	24.69	51.59	74.00	-22.41	PK
V	9748.00	43.35	30.85	7.45	24.69	44.64	54.00	-9.36	AV
V	12185.00	50.72	31.02	8.99	25.57	54.26	74.00	-19.74	PK
V	12185.00	43.73	31.02	8.99	25.57	47.27	54.00	-6.73	AV
H	4874.00	52.48	30.55	5.77	24.66	52.36	74.00	-21.64	PK
H	4874.00	43.96	30.55	5.77	24.66	43.84	54.00	-10.16	AV
H	7311.00	50.06	30.33	6.32	24.55	50.60	74.00	-23.40	PK
H	7311.00	43.56	30.33	6.32	24.55	44.10	54.00	-9.90	AV
H	9748.00	50.21	30.85	7.45	24.69	51.50	74.00	-22.50	PK
H	9748.00	43.79	30.85	7.45	24.69	45.08	54.00	-8.92	AV
H	12185.00	53.01	31.02	8.99	25.57	56.55	74.00	-17.45	PK
H	12185.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV



Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	52.26	30.55	5.77	24.66	52.14	74.00	-21.86	PK
V	4904.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
V	7356.00	50.03	30.33	6.32	24.55	50.57	74.00	-23.43	PK
V	7356.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
V	9808.00	54.39	30.85	7.45	24.69	55.68	74.00	-18.32	PK
V	9808.00	43.70	30.85	7.45	24.69	44.99	54.00	-9.01	AV
V	12260.00	53.95	31.02	8.99	25.57	57.49	74.00	-16.51	PK
V	12260.00	43.77	31.02	8.99	25.57	47.31	54.00	-6.69	AV
H	4904.00	52.68	30.55	5.77	24.66	52.56	74.00	-21.44	PK
H	4904.00	43.62	30.55	5.77	24.66	43.50	54.00	-10.50	AV
H	7356.00	50.70	30.33	6.32	24.55	51.24	74.00	-22.76	PK
H	7356.00	43.79	30.33	6.32	24.55	44.33	54.00	-9.67	AV
H	9808.00	51.23	30.85	7.45	24.69	52.52	74.00	-21.48	PK
H	9808.00	43.70	30.85	7.45	24.69	44.99	54.00	-9.01	AV
H	12260.00	50.68	31.02	8.99	25.57	54.22	74.00	-19.78	PK
H	12260.00	43.32	31.02	8.99	25.57	46.86	54.00	-7.14	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.



MIMO A+B - 802.11n40

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2422MHz									
V	4844.00	54.08	30.55	5.77	24.66	53.96	74.00	-20.04	PK
V	4844.00	43.67	30.55	5.77	24.66	43.55	54.00	-10.45	AV
V	7266.00	54.07	30.33	6.32	24.55	54.61	74.00	-19.39	PK
V	7266.00	43.34	30.33	6.32	24.55	43.88	54.00	-10.12	AV
V	9688.00	50.32	30.85	7.45	24.69	51.61	74.00	-22.39	PK
V	9688.00	43.01	30.85	7.45	24.69	44.30	54.00	-9.70	AV
V	12110.00	52.53	31.02	8.99	25.57	56.07	74.00	-17.93	PK
V	12110.00	43.65	31.02	8.99	25.57	47.19	54.00	-6.81	AV
H	4844.00	50.85	30.55	5.77	24.66	50.73	74.00	-23.27	PK
H	4844.00	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
H	7266.00	51.21	30.33	6.32	24.55	51.75	74.00	-22.25	PK
H	7266.00	43.34	30.33	6.32	24.55	43.88	54.00	-10.12	AV
H	9688.00	54.71	30.85	7.45	24.69	56.00	74.00	-18.00	PK
H	9688.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
H	12110.00	51.96	31.02	8.99	25.57	55.50	74.00	-18.50	PK
H	12110.00	43.10	31.02	8.99	25.57	46.64	54.00	-7.36	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	53.92	30.55	5.77	24.66	53.80	74.00	-20.20	PK
V	4874.00	43.38	30.55	5.77	24.66	43.26	54.00	-10.74	AV
V	7311.00	52.63	30.33	6.32	24.55	53.17	74.00	-20.83	PK
V	7311.00	43.03	30.33	6.32	24.55	43.57	54.00	-10.43	AV
V	9748.00	54.70	30.85	7.45	24.69	55.99	74.00	-18.01	PK
V	9748.00	43.54	30.85	7.45	24.69	44.83	54.00	-9.17	AV
V	12185.00	52.56	31.02	8.99	25.57	56.10	74.00	-17.90	PK
V	12185.00	43.85	31.02	8.99	25.57	47.39	54.00	-6.61	AV
H	4874.00	51.54	30.55	5.77	24.66	51.42	74.00	-22.58	PK
H	4874.00	43.74	30.55	5.77	24.66	43.62	54.00	-10.38	AV
H	7311.00	50.95	30.33	6.32	24.55	51.49	74.00	-22.51	PK
H	7311.00	43.30	30.33	6.32	24.55	43.84	54.00	-10.16	AV
H	9748.00	52.91	30.85	7.45	24.69	54.20	74.00	-19.80	PK
H	9748.00	43.17	30.85	7.45	24.69	44.46	54.00	-9.54	AV
H	12185.00	54.93	31.02	8.99	25.57	58.47	74.00	-15.53	PK
H	12185.00	43.51	31.02	8.99	25.57	47.05	54.00	-6.95	AV



Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	51.60	30.55	5.77	24.66	51.48	74.00	-22.52	PK
V	4904.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
V	7356.00	53.47	30.33	6.32	24.55	54.01	74.00	-19.99	PK
V	7356.00	43.30	30.33	6.32	24.55	43.84	54.00	-10.16	AV
V	9808.00	51.20	30.85	7.45	24.69	52.49	74.00	-21.51	PK
V	9808.00	43.99	30.85	7.45	24.69	45.28	54.00	-8.72	AV
V	12260.00	53.17	31.02	8.99	25.57	56.71	74.00	-17.29	PK
V	12260.00	43.72	31.02	8.99	25.57	47.26	54.00	-6.74	AV
H	4904.00	50.39	30.55	5.77	24.66	50.27	74.00	-23.73	PK
H	4904.00	43.90	30.55	5.77	24.66	43.78	54.00	-10.22	AV
H	7356.00	53.60	30.33	6.32	24.55	54.14	74.00	-19.86	PK
H	7356.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
H	9808.00	50.51	30.85	7.45	24.69	51.80	74.00	-22.20	PK
H	9808.00	43.68	30.85	7.45	24.69	44.97	54.00	-9.03	AV
H	12260.00	52.56	31.02	8.99	25.57	56.10	74.00	-17.90	PK
H	12260.00	43.31	31.02	8.99	25.57	46.85	54.00	-7.15	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



SISO ANT A - 802.11ax20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	52.94	30.55	5.77	24.66	52.82	74.00	-21.18	PK
V	4824.00	43.32	30.55	5.77	24.66	43.20	54.00	-10.80	AV
V	7236.00	52.92	30.33	6.32	24.55	53.46	74.00	-20.54	PK
V	7236.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
V	9648.00	53.69	30.85	7.45	24.69	54.98	74.00	-19.02	PK
V	9648.00	43.63	30.85	7.45	24.69	44.92	54.00	-9.08	AV
V	12060.00	51.12	31.02	8.99	25.57	54.66	74.00	-19.34	PK
V	12060.00	43.25	31.02	8.99	25.57	46.79	54.00	-7.21	AV
H	4824.00	52.64	30.55	5.77	24.66	52.52	74.00	-21.48	PK
H	4824.00	43.99	30.55	5.77	24.66	43.87	54.00	-10.13	AV
H	7236.00	52.69	30.33	6.32	24.55	53.23	74.00	-20.77	PK
H	7236.00	43.69	30.33	6.32	24.55	44.23	54.00	-9.77	AV
H	9648.00	50.62	30.85	7.45	24.69	51.91	74.00	-22.09	PK
H	9648.00	43.74	30.85	7.45	24.69	45.03	54.00	-8.97	AV
H	12060.00	53.84	31.02	8.99	25.57	57.38	74.00	-16.62	PK
H	12060.00	43.51	31.02	8.99	25.57	47.05	54.00	-6.95	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	50.06	30.55	5.77	24.66	49.94	74.00	-24.06	PK
V	4874.00	43.66	30.55	5.77	24.66	43.54	54.00	-10.46	AV
V	7311.00	50.66	30.33	6.32	24.55	51.20	74.00	-22.80	PK
V	7311.00	43.74	30.33	6.32	24.55	44.28	54.00	-9.72	AV
V	9748.00	51.72	30.85	7.45	24.69	53.01	74.00	-20.99	PK
V	9748.00	43.12	30.85	7.45	24.69	44.41	54.00	-9.59	AV
V	12185.00	53.54	31.02	8.99	25.57	57.08	74.00	-16.92	PK
V	12185.00	43.64	31.02	8.99	25.57	47.18	54.00	-6.82	AV
H	4874.00	52.35	30.55	5.77	24.66	52.23	74.00	-21.77	PK
H	4874.00	43.21	30.55	5.77	24.66	43.09	54.00	-10.91	AV
H	7311.00	52.32	30.33	6.32	24.55	52.86	74.00	-21.14	PK
H	7311.00	43.55	30.33	6.32	24.55	44.09	54.00	-9.91	AV
H	9748.00	51.41	30.85	7.45	24.69	52.70	74.00	-21.30	PK
H	9748.00	43.02	30.85	7.45	24.69	44.31	54.00	-9.69	AV
H	12185.00	50.13	31.02	8.99	25.57	53.67	74.00	-20.33	PK
H	12185.00	43.24	31.02	8.99	25.57	46.78	54.00	-7.22	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	52.88	30.55	5.77	24.66	52.76	74.00	-21.24	PK
V	4924.00	43.73	30.55	5.77	24.66	43.61	54.00	-10.39	AV
V	7386.00	54.47	30.33	6.32	24.55	55.01	74.00	-18.99	PK
V	7386.00	43.16	30.33	6.32	24.55	43.70	54.00	-10.30	AV
V	9848.00	50.37	30.85	7.45	24.69	51.66	74.00	-22.34	PK
V	9848.00	43.46	30.85	7.45	24.69	44.75	54.00	-9.25	AV
V	12310.00	53.03	31.02	8.99	25.57	56.57	74.00	-17.43	PK
V	12310.00	43.45	31.02	8.99	25.57	46.99	54.00	-7.01	AV
H	4924.00	54.76	30.55	5.77	24.66	54.64	74.00	-19.36	PK
H	4924.00	43.49	30.55	5.77	24.66	43.37	54.00	-10.63	AV
H	7386.00	51.99	30.33	6.32	24.55	52.53	74.00	-21.47	PK
H	7386.00	43.37	30.33	6.32	24.55	43.91	54.00	-10.09	AV
H	9848.00	52.13	30.85	7.45	24.69	53.42	74.00	-20.58	PK
H	9848.00	43.31	30.85	7.45	24.69	44.60	54.00	-9.40	AV
H	12310.00	54.76	31.02	8.99	25.57	58.30	74.00	-15.70	PK
H	12310.00	43.15	31.02	8.99	25.57	46.69	54.00	-7.31	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.



MIMO A+B - 802.11ax20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	52.89	30.55	5.77	24.66	52.77	74.00	-21.23	PK
V	4824.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
V	7236.00	51.92	30.33	6.32	24.55	52.46	74.00	-21.54	PK
V	7236.00	43.87	30.33	6.32	24.55	44.41	54.00	-9.59	AV
V	9648.00	52.53	30.85	7.45	24.69	53.82	74.00	-20.18	PK
V	9648.00	43.61	30.85	7.45	24.69	44.90	54.00	-9.10	AV
V	12060.00	53.86	31.02	8.99	25.57	57.40	74.00	-16.60	PK
V	12060.00	43.09	31.02	8.99	25.57	46.63	54.00	-7.37	AV
H	4824.00	50.70	30.55	5.77	24.66	50.58	74.00	-23.42	PK
H	4824.00	43.35	30.55	5.77	24.66	43.23	54.00	-10.77	AV
H	7236.00	54.71	30.33	6.32	24.55	55.25	74.00	-18.75	PK
H	7236.00	43.81	30.33	6.32	24.55	44.35	54.00	-9.65	AV
H	9648.00	52.32	30.85	7.45	24.69	53.61	74.00	-20.39	PK
H	9648.00	43.16	30.85	7.45	24.69	44.45	54.00	-9.55	AV
H	12060.00	51.35	31.02	8.99	25.57	54.89	74.00	-19.11	PK
H	12060.00	43.33	31.02	8.99	25.57	46.87	54.00	-7.13	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	50.07	30.55	5.77	24.66	49.95	74.00	-24.05	PK
V	4874.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
V	7311.00	51.46	30.33	6.32	24.55	52.00	74.00	-22.00	PK
V	7311.00	43.99	30.33	6.32	24.55	44.53	54.00	-9.47	AV
V	9748.00	50.47	30.85	7.45	24.69	51.76	74.00	-22.24	PK
V	9748.00	43.57	30.85	7.45	24.69	44.86	54.00	-9.14	AV
V	12185.00	53.63	31.02	8.99	25.57	57.17	74.00	-16.83	PK
V	12185.00	43.02	31.02	8.99	25.57	46.56	54.00	-7.44	AV
H	4874.00	53.51	30.55	5.77	24.66	53.39	74.00	-20.61	PK
H	4874.00	43.19	30.55	5.77	24.66	43.07	54.00	-10.93	AV
H	7311.00	51.72	30.33	6.32	24.55	52.26	74.00	-21.74	PK
H	7311.00	43.16	30.33	6.32	24.55	43.70	54.00	-10.30	AV
H	9748.00	53.65	30.85	7.45	24.69	54.94	74.00	-19.06	PK
H	9748.00	43.49	30.85	7.45	24.69	44.78	54.00	-9.22	AV
H	12185.00	50.98	31.02	8.99	25.57	54.52	74.00	-19.48	PK
H	12185.00	43.45	31.02	8.99	25.57	46.99	54.00	-7.01	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	52.01	30.55	5.77	24.66	51.89	74.00	-22.11	PK
V	4924.00	43.85	30.55	5.77	24.66	43.73	54.00	-10.27	AV
V	7386.00	51.35	30.33	6.32	24.55	51.89	74.00	-22.11	PK
V	7386.00	43.99	30.33	6.32	24.55	44.53	54.00	-9.47	AV
V	9848.00	50.20	30.85	7.45	24.69	51.49	74.00	-22.51	PK
V	9848.00	43.65	30.85	7.45	24.69	44.94	54.00	-9.06	AV
V	12310.00	52.99	31.02	8.99	25.57	56.53	74.00	-17.47	PK
V	12310.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV
H	4924.00	53.38	30.55	5.77	24.66	53.26	74.00	-20.74	PK
H	4924.00	43.38	30.55	5.77	24.66	43.26	54.00	-10.74	AV
H	7386.00	50.20	30.33	6.32	24.55	50.74	74.00	-23.26	PK
H	7386.00	43.38	30.33	6.32	24.55	43.92	54.00	-10.08	AV
H	9848.00	51.83	30.85	7.45	24.69	53.12	74.00	-20.88	PK
H	9848.00	43.29	30.85	7.45	24.69	44.58	54.00	-9.42	AV
H	12310.00	53.47	31.02	8.99	25.57	57.01	74.00	-16.99	PK
H	12310.00	43.54	31.02	8.99	25.57	47.08	54.00	-6.92	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



SISO ANT A - 802.11ax40

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2422MHz									
V	4844.00	54.75	30.55	5.77	24.66	54.63	74.00	-19.37	PK
V	4844.00	43.80	30.55	5.77	24.66	43.68	54.00	-10.32	AV
V	7266.00	53.83	30.33	6.32	24.55	54.37	74.00	-19.63	PK
V	7266.00	43.58	30.33	6.32	24.55	44.12	54.00	-9.88	AV
V	9688.00	53.12	30.85	7.45	24.69	54.41	74.00	-19.59	PK
V	9688.00	43.92	30.85	7.45	24.69	45.21	54.00	-8.79	AV
V	12110.00	51.91	31.02	8.99	25.57	55.45	74.00	-18.55	PK
V	12110.00	43.00	31.02	8.99	25.57	46.54	54.00	-7.46	AV
H	4844.00	50.03	30.55	5.77	24.66	49.91	74.00	-24.09	PK
H	4844.00	43.35	30.55	5.77	24.66	43.23	54.00	-10.77	AV
H	7266.00	52.37	30.33	6.32	24.55	52.91	74.00	-21.09	PK
H	7266.00	43.61	30.33	6.32	24.55	44.15	54.00	-9.85	AV
H	9688.00	52.03	30.85	7.45	24.69	53.32	74.00	-20.68	PK
H	9688.00	43.26	30.85	7.45	24.69	44.55	54.00	-9.45	AV
H	12110.00	52.44	31.02	8.99	25.57	55.98	74.00	-18.02	PK
H	12110.00	43.03	31.02	8.99	25.57	46.57	54.00	-7.43	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	52.78	30.55	5.77	24.66	52.66	74.00	-21.34	PK
V	4874.00	43.45	30.55	5.77	24.66	43.33	54.00	-10.67	AV
V	7311.00	52.27	30.33	6.32	24.55	52.81	74.00	-21.19	PK
V	7311.00	43.49	30.33	6.32	24.55	44.03	54.00	-9.97	AV
V	9748.00	50.85	30.85	7.45	24.69	52.14	74.00	-21.86	PK
V	9748.00	43.19	30.85	7.45	24.69	44.48	54.00	-9.52	AV
V	12185.00	51.04	31.02	8.99	25.57	54.58	74.00	-19.42	PK
V	12185.00	43.73	31.02	8.99	25.57	47.27	54.00	-6.73	AV
H	4874.00	54.46	30.55	5.77	24.66	54.34	74.00	-19.66	PK
H	4874.00	43.19	30.55	5.77	24.66	43.07	54.00	-10.93	AV
H	7311.00	54.07	30.33	6.32	24.55	54.61	74.00	-19.39	PK
H	7311.00	43.58	30.33	6.32	24.55	44.12	54.00	-9.88	AV
H	9748.00	50.43	30.85	7.45	24.69	51.72	74.00	-22.28	PK
H	9748.00	43.29	30.85	7.45	24.69	44.58	54.00	-9.42	AV
H	12185.00	53.78	31.02	8.99	25.57	57.32	74.00	-16.68	PK
H	12185.00	43.63	31.02	8.99	25.57	47.17	54.00	-6.83	AV



Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	50.84	30.55	5.77	24.66	50.72	74.00	-23.28	PK
V	4904.00	43.07	30.55	5.77	24.66	42.95	54.00	-11.05	AV
V	7356.00	51.89	30.33	6.32	24.55	52.43	74.00	-21.57	PK
V	7356.00	43.53	30.33	6.32	24.55	44.07	54.00	-9.93	AV
V	9808.00	54.48	30.85	7.45	24.69	55.77	74.00	-18.23	PK
V	9808.00	43.93	30.85	7.45	24.69	45.22	54.00	-8.78	AV
V	12260.00	54.44	31.02	8.99	25.57	57.98	74.00	-16.02	PK
V	12260.00	43.01	31.02	8.99	25.57	46.55	54.00	-7.45	AV
H	4904.00	53.84	30.55	5.77	24.66	53.72	74.00	-20.28	PK
H	4904.00	43.11	30.55	5.77	24.66	42.99	54.00	-11.01	AV
H	7356.00	53.99	30.33	6.32	24.55	54.53	74.00	-19.47	PK
H	7356.00	43.12	30.33	6.32	24.55	43.66	54.00	-10.34	AV
H	9808.00	53.16	30.85	7.45	24.69	54.45	74.00	-19.55	PK
H	9808.00	43.24	30.85	7.45	24.69	44.53	54.00	-9.47	AV
H	12260.00	50.90	31.02	8.99	25.57	54.44	74.00	-19.56	PK
H	12260.00	43.41	31.02	8.99	25.57	46.95	54.00	-7.05	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.



MIMO A+B - 802.11ax40

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2422MHz									
V	4844.00	52.99	30.55	5.77	24.66	52.87	74.00	-21.13	PK
V	4844.00	43.45	30.55	5.77	24.66	43.33	54.00	-10.67	AV
V	7266.00	52.06	30.33	6.32	24.55	52.60	74.00	-21.40	PK
V	7266.00	43.95	30.33	6.32	24.55	44.49	54.00	-9.51	AV
V	9688.00	54.34	30.85	7.45	24.69	55.63	74.00	-18.37	PK
V	9688.00	43.60	30.85	7.45	24.69	44.89	54.00	-9.11	AV
V	12110.00	52.97	31.02	8.99	25.57	56.51	74.00	-17.49	PK
V	12110.00	43.29	31.02	8.99	25.57	46.83	54.00	-7.17	AV
H	4844.00	50.88	30.55	5.77	24.66	50.76	74.00	-23.24	PK
H	4844.00	43.42	30.55	5.77	24.66	43.30	54.00	-10.70	AV
H	7266.00	50.95	30.33	6.32	24.55	51.49	74.00	-22.51	PK
H	7266.00	43.11	30.33	6.32	24.55	43.65	54.00	-10.35	AV
H	9688.00	53.08	30.85	7.45	24.69	54.37	74.00	-19.63	PK
H	9688.00	43.95	30.85	7.45	24.69	45.24	54.00	-8.76	AV
H	12110.00	54.92	31.02	8.99	25.57	58.46	74.00	-15.54	PK
H	12110.00	43.32	31.02	8.99	25.57	46.86	54.00	-7.14	AV

Polar (H/V)	Frequeunc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	53.12	30.55	5.77	24.66	53.00	74.00	-21.00	PK
V	4874.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
V	7311.00	51.48	30.33	6.32	24.55	52.02	74.00	-21.98	PK
V	7311.00	43.84	30.33	6.32	24.55	44.38	54.00	-9.62	AV
V	9748.00	53.85	30.85	7.45	24.69	55.14	74.00	-18.86	PK
V	9748.00	43.55	30.85	7.45	24.69	44.84	54.00	-9.16	AV
V	12185.00	50.38	31.02	8.99	25.57	53.92	74.00	-20.08	PK
V	12185.00	43.35	31.02	8.99	25.57	46.89	54.00	-7.11	AV
H	4874.00	50.32	30.55	5.77	24.66	50.20	74.00	-23.80	PK
H	4874.00	43.20	30.55	5.77	24.66	43.08	54.00	-10.92	AV
H	7311.00	52.83	30.33	6.32	24.55	53.37	74.00	-20.63	PK
H	7311.00	43.84	30.33	6.32	24.55	44.38	54.00	-9.62	AV
H	9748.00	50.90	30.85	7.45	24.69	52.19	74.00	-21.81	PK
H	9748.00	43.43	30.85	7.45	24.69	44.72	54.00	-9.28	AV
H	12185.00	50.55	31.02	8.99	25.57	54.09	74.00	-19.91	PK
H	12185.00	43.40	31.02	8.99	25.57	46.94	54.00	-7.06	AV



Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	50.63	30.55	5.77	24.66	50.51	74.00	-23.49	PK
V	4904.00	43.33	30.55	5.77	24.66	43.21	54.00	-10.79	AV
V	7356.00	53.83	30.33	6.32	24.55	54.37	74.00	-19.63	PK
V	7356.00	43.43	30.33	6.32	24.55	43.97	54.00	-10.03	AV
V	9808.00	50.36	30.85	7.45	24.69	51.65	74.00	-22.35	PK
V	9808.00	43.48	30.85	7.45	24.69	44.77	54.00	-9.23	AV
V	12260.00	50.74	31.02	8.99	25.57	54.28	74.00	-19.72	PK
V	12260.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV
H	4904.00	53.36	30.55	5.77	24.66	53.24	74.00	-20.76	PK
H	4904.00	43.33	30.55	5.77	24.66	43.21	54.00	-10.79	AV
H	7356.00	54.23	30.33	6.32	24.55	54.77	74.00	-19.23	PK
H	7356.00	43.69	30.33	6.32	24.55	44.23	54.00	-9.77	AV
H	9808.00	53.94	30.85	7.45	24.69	55.23	74.00	-18.77	PK
H	9808.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
H	12260.00	53.25	31.02	8.99	25.57	56.79	74.00	-17.21	PK
H	12260.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above	Peak	1MHz	3MHz	Peak
	1GHz	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.
- g. Test the EUT in the lowest channel,the Highest channel

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

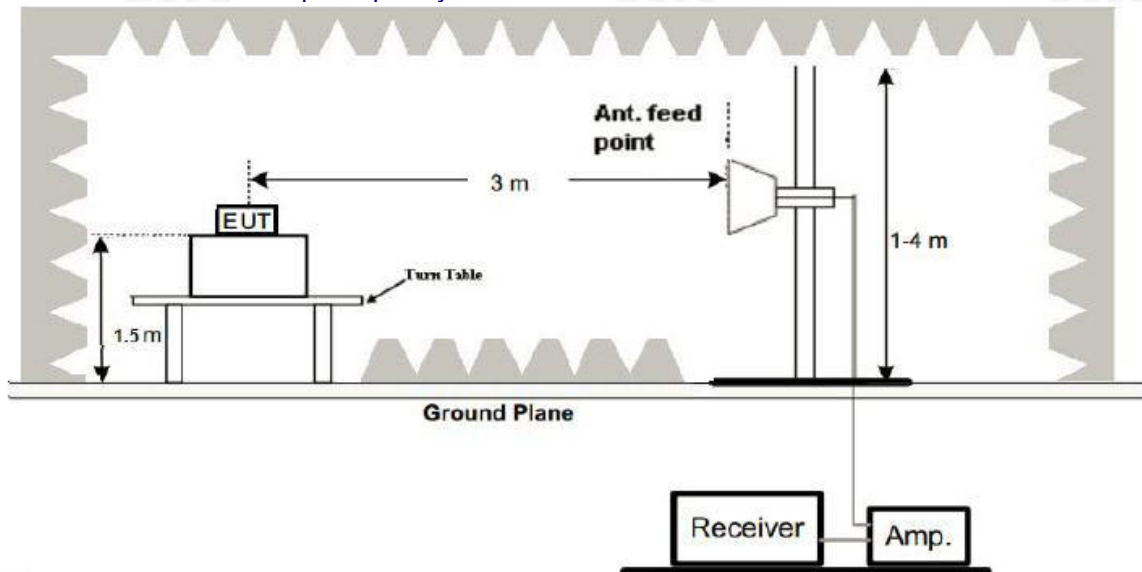
5.3 DEVIATION FROM TEST STANDARD

No deviation



5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dete ctor Type	Result
SISO ANT A 802.11b	LowChannel 2412MHz										
	H	2390.00	53.94	30.22	4.85	23.98	52.55	74.00	-21.45	PK	PASS
	H	2390.00	44.26	30.22	4.85	23.98	42.87	54.00	-11.13	AV	PASS
	H	2400.00	54.23	30.22	4.85	23.98	52.84	74.00	-21.16	PK	PASS
	H	2400.00	44.48	30.22	4.85	23.98	43.09	54.00	-10.91	AV	PASS
	V	2390.00	54.60	30.22	4.85	23.98	53.21	74.00	-20.79	PK	PASS
	V	2390.00	44.55	30.22	4.85	23.98	43.16	54.00	-10.84	AV	PASS
	V	2400.00	53.67	30.22	4.85	23.98	52.28	74.00	-21.72	PK	PASS
	V	2400.00	44.38	30.22	4.85	23.98	42.99	54.00	-11.01	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	54.30	30.22	4.85	23.98	52.91	74.00	-21.09	PK	PASS
	H	2483.50	44.10	30.22	4.85	23.98	42.71	54.00	-11.29	AV	PASS
	H	2500.00	54.71	30.22	4.85	23.98	53.32	74.00	-20.68	PK	PASS
	H	2500.00	44.85	30.22	4.85	23.98	43.46	54.00	-10.54	AV	PASS
	V	2483.50	54.92	30.22	4.85	23.98	53.53	74.00	-20.47	PK	PASS
	V	2483.50	44.03	30.22	4.85	23.98	42.64	54.00	-11.36	AV	PASS
	V	2500.00	54.33	30.22	4.85	23.98	52.94	74.00	-21.06	PK	PASS
	V	2500.00	44.27	30.22	4.85	23.98	42.88	54.00	-11.12	AV	PASS
SISO ANT B 802.11b	LowChannel 2412MHz										
	H	2390.00	54.71	30.22	4.85	23.98	53.32	74.00	-20.68	PK	PASS
	H	2390.00	44.49	30.22	4.85	23.98	43.10	54.00	-10.90	AV	PASS
	H	2400.00	53.51	30.22	4.85	23.98	52.12	74.00	-21.88	PK	PASS
	H	2400.00	44.79	30.22	4.85	23.98	43.40	54.00	-10.60	AV	PASS
	V	2390.00	53.22	30.22	4.85	23.98	51.83	74.00	-22.17	PK	PASS
	V	2390.00	44.45	30.22	4.85	23.98	43.06	54.00	-10.94	AV	PASS
	V	2400.00	54.31	30.22	4.85	23.98	52.92	74.00	-21.08	PK	PASS
	V	2400.00	44.77	30.22	4.85	23.98	43.38	54.00	-10.62	AV	PASS
	High Channel 2462MHz										
	H	2483.50	54.39	30.22	4.85	23.98	53.00	74.00	-21.00	PK	PASS
	H	2483.50	44.91	30.22	4.85	23.98	43.52	54.00	-10.48	AV	PASS
	H	2500.00	53.28	30.22	4.85	23.98	51.89	74.00	-22.11	PK	PASS
	H	2500.00	44.09	30.22	4.85	23.98	42.70	54.00	-11.30	AV	PASS
	V	2483.50	54.41	30.22	4.85	23.98	53.02	74.00	-20.98	PK	PASS
	V	2483.50	44.28	30.22	4.85	23.98	42.89	54.00	-11.11	AV	PASS
	V	2500.00	54.71	30.22	4.85	23.98	53.32	74.00	-20.68	PK	PASS
	V	2500.00	44.34	30.22	4.85	23.98	42.95	54.00	-11.05	AV	PASS
Remark: Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit.											



	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBu V/m)	Margin (dB)	Dete ctor Type	Result
SISO ANT A 802.11g	LowChannel 2412MHz										
	H	2390.00	53.67	30.22	4.85	23.98	52.28	74.00	-21.72	PK	PASS
	H	2390.00	44.42	30.22	4.85	23.98	43.03	54.00	-10.97	AV	PASS
	H	2400.00	54.91	30.22	4.85	23.98	53.52	74.00	-20.48	PK	PASS
	H	2400.00	44.15	30.22	4.85	23.98	42.76	54.00	-11.24	AV	PASS
	V	2390.00	54.07	30.22	4.85	23.98	52.68	74.00	-21.32	PK	PASS
	V	2390.00	44.80	30.22	4.85	23.98	43.41	54.00	-10.59	AV	PASS
	V	2400.00	53.01	30.22	4.85	23.98	51.62	74.00	-22.38	PK	PASS
	V	2400.00	44.54	30.22	4.85	23.98	43.15	54.00	-10.85	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	54.23	30.22	4.85	23.98	52.84	74.00	-21.16	PK	PASS
	H	2483.50	44.24	30.22	4.85	23.98	42.85	54.00	-11.15	AV	PASS
	H	2500.00	53.20	30.22	4.85	23.98	51.81	74.00	-22.19	PK	PASS
	H	2500.00	44.17	30.22	4.85	23.98	42.78	54.00	-11.22	AV	PASS
	V	2483.50	54.71	30.22	4.85	23.98	53.32	74.00	-20.68	PK	PASS
	V	2483.50	44.96	30.22	4.85	23.98	43.57	54.00	-10.43	AV	PASS
SISO ANT B 802.11g	LowChannel 2412MHz										
	H	2390.00	53.21	30.22	4.85	23.98	51.82	74.00	-22.18	PK	PASS
	H	2390.00	44.83	30.22	4.85	23.98	43.44	54.00	-10.56	AV	PASS
	H	2400.00	53.95	30.22	4.85	23.98	52.56	74.00	-21.44	PK	PASS
	H	2400.00	44.64	30.22	4.85	23.98	43.25	54.00	-10.75	AV	PASS
	V	2390.00	54.62	30.22	4.85	23.98	53.23	74.00	-20.77	PK	PASS
	V	2390.00	44.33	30.22	4.85	23.98	42.94	54.00	-11.06	AV	PASS
	V	2400.00	53.78	30.22	4.85	23.98	52.39	74.00	-21.61	PK	PASS
	V	2400.00	44.71	30.22	4.85	23.98	43.32	54.00	-10.68	AV	PASS
	High Channel 2462MHz										
	H	2483.50	53.78	30.22	4.85	23.98	52.39	74.00	-21.61	PK	PASS
	H	2483.50	44.62	30.22	4.85	23.98	43.23	54.00	-10.77	AV	PASS
	H	2500.00	54.86	30.22	4.85	23.98	53.47	74.00	-20.53	PK	PASS
	H	2500.00	44.76	30.22	4.85	23.98	43.37	54.00	-10.63	AV	PASS
	V	2483.50	54.10	30.22	4.85	23.98	52.71	74.00	-21.29	PK	PASS
	V	2483.50	44.72	30.22	4.85	23.98	43.33	54.00	-10.67	AV	PASS
	V	2500.00	53.58	30.22	4.85	23.98	52.19	74.00	-21.81	PK	PASS
	V	2500.00	44.88	30.22	4.85	23.98	43.49	54.00	-10.51	AV	PASS
Remark: Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit.											



	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dete ctor Type	Result
SISO ANT A 802.11n20	LowChannel 2412MHz										
	H	2390.00	53.78	30.22	4.85	23.98	52.39	74.00	-21.61	PK	PASS
	H	2390.00	44.39	30.22	4.85	23.98	43.00	54.00	-11.00	AV	PASS
	H	2400.00	53.93	30.22	4.85	23.98	52.54	74.00	-21.46	PK	PASS
	H	2400.00	44.97	30.22	4.85	23.98	43.58	54.00	-10.42	AV	PASS
	V	2390.00	54.53	30.22	4.85	23.98	53.14	74.00	-20.86	PK	PASS
	V	2390.00	44.08	30.22	4.85	23.98	42.69	54.00	-11.31	AV	PASS
	V	2400.00	53.63	30.22	4.85	23.98	52.24	74.00	-21.76	PK	PASS
	V	2400.00	44.63	30.22	4.85	23.98	43.24	54.00	-10.76	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	53.19	30.22	4.85	23.98	51.80	74.00	-22.20	PK	PASS
	H	2483.50	44.22	30.22	4.85	23.98	42.83	54.00	-11.17	AV	PASS
	H	2500.00	54.28	30.22	4.85	23.98	52.89	74.00	-21.11	PK	PASS
	H	2500.00	44.21	30.22	4.85	23.98	42.82	54.00	-11.18	AV	PASS
	V	2483.50	53.10	30.22	4.85	23.98	51.71	74.00	-22.29	PK	PASS
	V	2483.50	44.31	30.22	4.85	23.98	42.92	54.00	-11.08	AV	PASS
	V	2500.00	54.95	30.22	4.85	23.98	53.56	74.00	-20.44	PK	PASS
	V	2500.00	44.54	30.22	4.85	23.98	43.15	54.00	-10.85	AV	PASS
SISO ANT A 802.11ax20	LowChannel 2412MHz										
	H	2390.00	54.88	30.22	4.85	23.98	53.49	74.00	-20.51	PK	PASS
	H	2390.00	44.13	30.22	4.85	23.98	42.74	54.00	-11.26	AV	PASS
	H	2400.00	54.77	30.22	4.85	23.98	53.38	74.00	-20.62	PK	PASS
	H	2400.00	44.53	30.22	4.85	23.98	43.14	54.00	-10.86	AV	PASS
	V	2390.00	54.26	30.22	4.85	23.98	52.87	74.00	-21.13	PK	PASS
	V	2390.00	44.42	30.22	4.85	23.98	43.03	54.00	-10.97	AV	PASS
	V	2400.00	53.38	30.22	4.85	23.98	51.99	74.00	-22.01	PK	PASS
	V	2400.00	44.06	30.22	4.85	23.98	42.67	54.00	-11.33	AV	PASS
	High Channel 2462MHz										
	H	2483.50	54.04	30.22	4.85	23.98	52.65	74.00	-21.35	PK	PASS
	H	2483.50	44.29	30.22	4.85	23.98	42.90	54.00	-11.10	AV	PASS
	H	2500.00	54.11	30.22	4.85	23.98	52.72	74.00	-21.28	PK	PASS
	H	2500.00	44.37	30.22	4.85	23.98	42.98	54.00	-11.02	AV	PASS
	V	2483.50	54.58	30.22	4.85	23.98	53.19	74.00	-20.81	PK	PASS
	V	2483.50	44.16	30.22	4.85	23.98	42.77	54.00	-11.23	AV	PASS
	V	2500.00	53.29	30.22	4.85	23.98	51.90	74.00	-22.10	PK	PASS
	V	2500.00	44.67	30.22	4.85	23.98	43.28	54.00	-10.72	AV	PASS
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit. 2. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.											



	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dete ctor Type	Result
MIMO A+B 802.11n20	LowChannel 2412MHz										
	H	2390.00	54.18	30.22	4.85	23.98	52.79	74.00	-21.21	PK	PASS
	H	2390.00	44.71	30.22	4.85	23.98	43.32	54.00	-10.68	AV	PASS
	H	2400.00	54.31	30.22	4.85	23.98	52.92	74.00	-21.08	PK	PASS
	H	2400.00	44.59	30.22	4.85	23.98	43.20	54.00	-10.80	AV	PASS
	V	2390.00	54.38	30.22	4.85	23.98	52.99	74.00	-21.01	PK	PASS
	V	2390.00	44.10	30.22	4.85	23.98	42.71	54.00	-11.29	AV	PASS
	V	2400.00	54.88	30.22	4.85	23.98	53.49	74.00	-20.51	PK	PASS
	V	2400.00	44.18	30.22	4.85	23.98	42.79	54.00	-11.21	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	54.34	30.22	4.85	23.98	52.95	74.00	-21.05	PK	PASS
	H	2483.50	44.97	30.22	4.85	23.98	43.58	54.00	-10.42	AV	PASS
	H	2500.00	54.13	30.22	4.85	23.98	52.74	74.00	-21.26	PK	PASS
	H	2500.00	44.62	30.22	4.85	23.98	43.23	54.00	-10.77	AV	PASS
	V	2483.50	53.76	30.22	4.85	23.98	52.37	74.00	-21.63	PK	PASS
	V	2483.50	44.27	30.22	4.85	23.98	42.88	54.00	-11.12	AV	PASS
	V	2500.00	54.57	30.22	4.85	23.98	53.18	74.00	-20.82	PK	PASS
	V	2500.00	44.90	30.22	4.85	23.98	43.51	54.00	-10.49	AV	PASS
MIMO A+B 802.11ax20	LowChannel 2412MHz										
	H	2390.00	53.54	30.22	4.85	23.98	52.15	74.00	-21.85	PK	PASS
	H	2390.00	44.23	30.22	4.85	23.98	42.84	54.00	-11.16	AV	PASS
	H	2400.00	53.65	30.22	4.85	23.98	52.26	74.00	-21.74	PK	PASS
	H	2400.00	44.47	30.22	4.85	23.98	43.08	54.00	-10.92	AV	PASS
	V	2390.00	53.62	30.22	4.85	23.98	52.23	74.00	-21.77	PK	PASS
	V	2390.00	44.47	30.22	4.85	23.98	43.08	54.00	-10.92	AV	PASS
	V	2400.00	54.55	30.22	4.85	23.98	53.16	74.00	-20.84	PK	PASS
	V	2400.00	44.86	30.22	4.85	23.98	43.47	54.00	-10.53	AV	PASS
	High Channel 2462MHz										
	H	2483.50	54.03	30.22	4.85	23.98	52.64	74.00	-21.36	PK	PASS
	H	2483.50	44.78	30.22	4.85	23.98	43.39	54.00	-10.61	AV	PASS
	H	2500.00	54.02	30.22	4.85	23.98	52.63	74.00	-21.37	PK	PASS
	H	2500.00	44.66	30.22	4.85	23.98	43.27	54.00	-10.73	AV	PASS
	V	2483.50	54.42	30.22	4.85	23.98	53.03	74.00	-20.97	PK	PASS
	V	2483.50	44.78	30.22	4.85	23.98	43.39	54.00	-10.61	AV	PASS
	V	2500.00	53.27	30.22	4.85	23.98	51.88	74.00	-22.12	PK	PASS
	V	2500.00	44.60	30.22	4.85	23.98	43.21	54.00	-10.79	AV	PASS
Remark: Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit.											



	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dete ctor Type	Result
SISO ANT A 802.11n40	LowChannel 2412MHz										
	H	2390.00	53.80	30.22	4.85	23.98	52.41	74.00	-21.59	PK	PASS
	H	2390.00	44.34	30.22	4.85	23.98	42.95	54.00	-11.05	AV	PASS
	H	2400.00	54.29	30.22	4.85	23.98	52.90	74.00	-21.10	PK	PASS
	H	2400.00	44.72	30.22	4.85	23.98	43.33	54.00	-10.67	AV	PASS
	V	2390.00	53.34	30.22	4.85	23.98	51.95	74.00	-22.05	PK	PASS
	V	2390.00	44.10	30.22	4.85	23.98	42.71	54.00	-11.29	AV	PASS
	V	2400.00	54.99	30.22	4.85	23.98	53.60	74.00	-20.40	PK	PASS
	V	2400.00	44.62	30.22	4.85	23.98	43.23	54.00	-10.77	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	53.03	30.22	4.85	23.98	51.64	74.00	-22.36	PK	PASS
	H	2483.50	44.24	30.22	4.85	23.98	42.85	54.00	-11.15	AV	PASS
	H	2500.00	53.15	30.22	4.85	23.98	51.76	74.00	-22.24	PK	PASS
	H	2500.00	44.94	30.22	4.85	23.98	43.55	54.00	-10.45	AV	PASS
	V	2483.50	53.25	30.22	4.85	23.98	51.86	74.00	-22.14	PK	PASS
	V	2483.50	44.58	30.22	4.85	23.98	43.19	54.00	-10.81	AV	PASS
	V	2500.00	54.13	30.22	4.85	23.98	52.74	74.00	-21.26	PK	PASS
	V	2500.00	44.27	30.22	4.85	23.98	42.88	54.00	-11.12	AV	PASS
SISO ANT A 802.11ax40	LowChannel 2412MHz										
	H	2390.00	53.52	30.22	4.85	23.98	52.13	74.00	-21.87	PK	PASS
	H	2390.00	44.35	30.22	4.85	23.98	42.96	54.00	-11.04	AV	PASS
	H	2400.00	54.73	30.22	4.85	23.98	53.34	74.00	-20.66	PK	PASS
	H	2400.00	44.65	30.22	4.85	23.98	43.26	54.00	-10.74	AV	PASS
	V	2390.00	53.19	30.22	4.85	23.98	51.80	74.00	-22.20	PK	PASS
	V	2390.00	44.75	30.22	4.85	23.98	43.36	54.00	-10.64	AV	PASS
	V	2400.00	53.23	30.22	4.85	23.98	51.84	74.00	-22.16	PK	PASS
	V	2400.00	44.87	30.22	4.85	23.98	43.48	54.00	-10.52	AV	PASS
	High Channel 2462MHz										
	H	2483.50	54.97	30.22	4.85	23.98	53.58	74.00	-20.42	PK	PASS
	H	2483.50	44.74	30.22	4.85	23.98	43.35	54.00	-10.65	AV	PASS
	H	2500.00	54.52	30.22	4.85	23.98	53.13	74.00	-20.87	PK	PASS
	H	2500.00	44.30	30.22	4.85	23.98	42.91	54.00	-11.09	AV	PASS
	V	2483.50	54.89	30.22	4.85	23.98	53.50	74.00	-20.50	PK	PASS
	V	2483.50	44.69	30.22	4.85	23.98	43.30	54.00	-10.70	AV	PASS
	V	2500.00	54.78	30.22	4.85	23.98	53.39	74.00	-20.61	PK	PASS
	V	2500.00	44.61	30.22	4.85	23.98	43.22	54.00	-10.78	AV	PASS
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit. 2. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.											



	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dete ctor Type	Result
MIMO A+B 802.11n40	LowChannel 2412MHz										
	H	2390.00	53.29	30.22	4.85	23.98	51.90	74.00	-22.10	PK	PASS
	H	2390.00	44.12	30.22	4.85	23.98	42.73	54.00	-11.27	AV	PASS
	H	2400.00	54.62	30.22	4.85	23.98	53.23	74.00	-20.77	PK	PASS
	H	2400.00	44.24	30.22	4.85	23.98	42.85	54.00	-11.15	AV	PASS
	V	2390.00	54.05	30.22	4.85	23.98	52.66	74.00	-21.34	PK	PASS
	V	2390.00	44.42	30.22	4.85	23.98	43.03	54.00	-10.97	AV	PASS
	V	2400.00	54.74	30.22	4.85	23.98	53.35	74.00	-20.65	PK	PASS
	V	2400.00	44.17	30.22	4.85	23.98	42.78	54.00	-11.22	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	53.86	30.22	4.85	23.98	52.47	74.00	-21.53	PK	PASS
	H	2483.50	44.06	30.22	4.85	23.98	42.67	54.00	-11.33	AV	PASS
	H	2500.00	53.01	30.22	4.85	23.98	51.62	74.00	-22.38	PK	PASS
	H	2500.00	44.91	30.22	4.85	23.98	43.52	54.00	-10.48	AV	PASS
	V	2483.50	53.17	30.22	4.85	23.98	51.78	74.00	-22.22	PK	PASS
	V	2483.50	44.76	30.22	4.85	23.98	43.37	54.00	-10.63	AV	PASS
MIMO A+B 802.11ax40	V	2500.00	54.96	30.22	4.85	23.98	53.57	74.00	-20.43	PK	PASS
	V	2500.00	44.42	30.22	4.85	23.98	43.03	54.00	-10.97	AV	PASS
	LowChannel 2412MHz										
	H	2390.00	53.44	30.22	4.85	23.98	52.05	74.00	-21.95	PK	PASS
	H	2390.00	44.41	30.22	4.85	23.98	43.02	54.00	-10.98	AV	PASS
	H	2400.00	53.16	30.22	4.85	23.98	51.77	74.00	-22.23	PK	PASS
	H	2400.00	44.38	30.22	4.85	23.98	42.99	54.00	-11.01	AV	PASS
	V	2390.00	54.95	30.22	4.85	23.98	53.56	74.00	-20.44	PK	PASS
	V	2390.00	44.37	30.22	4.85	23.98	42.98	54.00	-11.02	AV	PASS
	V	2400.00	54.41	30.22	4.85	23.98	53.02	74.00	-20.98	PK	PASS
	V	2400.00	44.53	30.22	4.85	23.98	43.14	54.00	-10.86	AV	PASS
	High Channel 2462MHz										
	H	2483.50	53.70	30.22	4.85	23.98	52.31	74.00	-21.69	PK	PASS
	H	2483.50	44.70	30.22	4.85	23.98	43.31	54.00	-10.69	AV	PASS
	H	2500.00	53.35	30.22	4.85	23.98	51.96	74.00	-22.04	PK	PASS
	H	2500.00	44.37	30.22	4.85	23.98	42.98	54.00	-11.02	AV	PASS
	V	2483.50	53.27	30.22	4.85	23.98	51.88	74.00	-22.12	PK	PASS
	V	2483.50	44.72	30.22	4.85	23.98	43.33	54.00	-10.67	AV	PASS
	V	2500.00	54.40	30.22	4.85	23.98	53.01	74.00	-20.99	PK	PASS
	V	2500.00	44.43	30.22	4.85	23.98	43.04	54.00	-10.96	AV	PASS
Remark: Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit.											



6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.85V

Test Mode	Antenna	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	SISO ANT A	2412	-8.959	8	PASS
		2437	-10.051		
		2462	-8.127		
	SISO ANT B	2412	-5.908	8	PASS
		2437	-4.913		
		2462	-4.535		
802.11g	SISO ANT A	2412	-11.750	8	PASS
		2437	-11.774		
		2462	-10.399		
	SISO ANT B	2412	-7.531	8	PASS
		2437	-7.738		
		2462	-8.968		
802.11n20	SISO ANT A	2412	-12.251	8	PASS
		2437	-13.241		
		2462	-12.265		
	SISO ANT B	2412	-8.887	8	PASS
		2437	-9.555		
		2462	-9.820		
	MIMO A+B	2412	-7.241	8	PASS
		2437	-8.008		
		2462	-7.862		
802.11n40	SISO ANT A	2422	-14.936	8	PASS
		2437	-16.159		
		2452	-14.536		



	SISO ANT B	2422	-12.394	8	PASS
		2437	-13.282		
		2452	-12.222		
	MIMO A+B	2422	-10.471	8	PASS
		2437	-11.476		
		2452	-10.216		
802.11ax20	SISO ANT A	2412	-12.146	8	PASS
		2437	-12.598		
		2462	-12.603		
	SISO ANT B	2412	-8.073	8	PASS
		2437	-10.217		
		2462	-9.841		
	MIMO A+B	2412	-6.638	8	PASS
		2437	-8.236		
		2462	-7.996		
802.11ax40	SISO ANT A	2422	-14.054	8	PASS
		2437	-16.122		
		2452	-15.354		
	SISO ANT B	2422	-11.788	8	PASS
		2437	-12.375		
		2452	-12.469		
	MIMO A+B	2422	-9.765	8	PASS
		2437	-10.846		
		2452	-10.666		



SISO ANT A - 802.11b
CH01



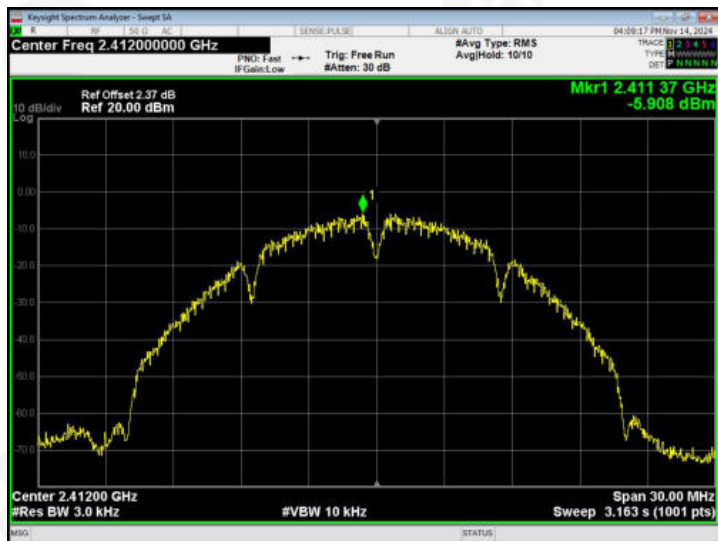
CH06



CH11



SISO ANT B - 802.11b
CH01



CH06

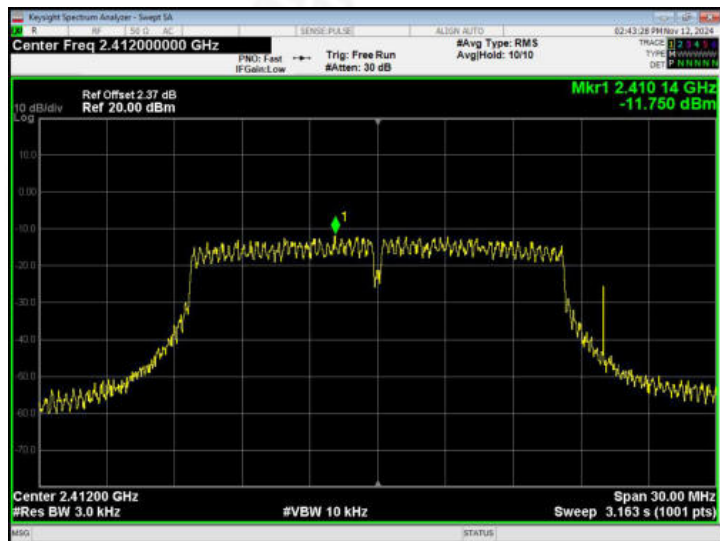


CH11

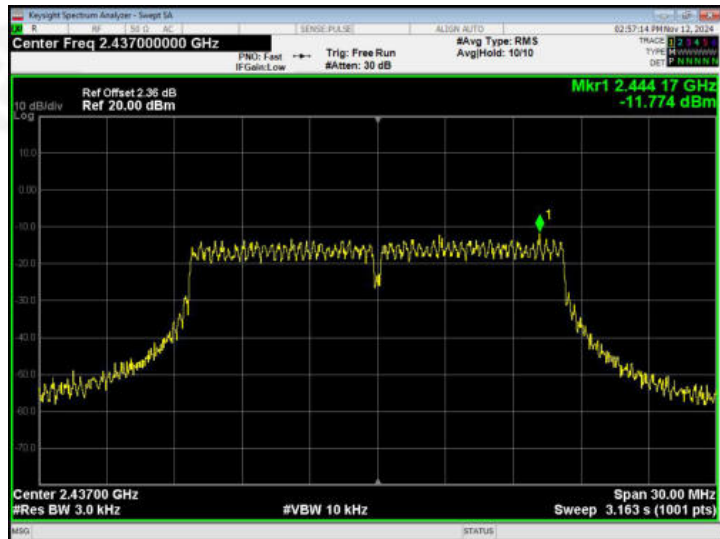




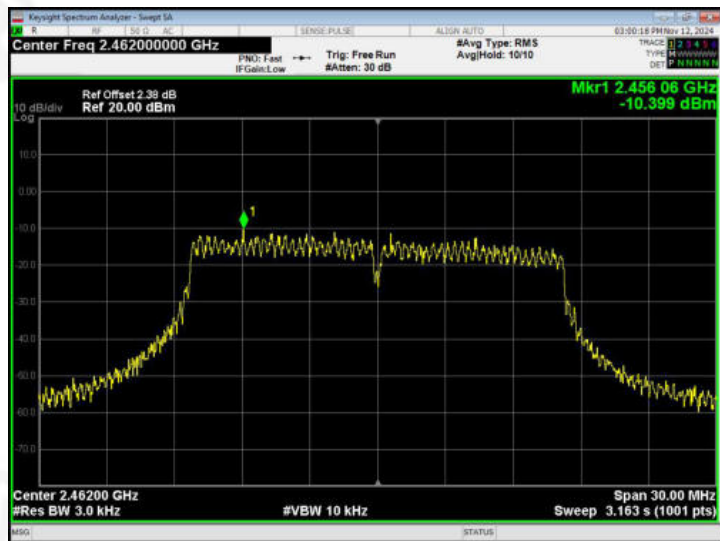
SISO ANT A - 802.11g
CH01



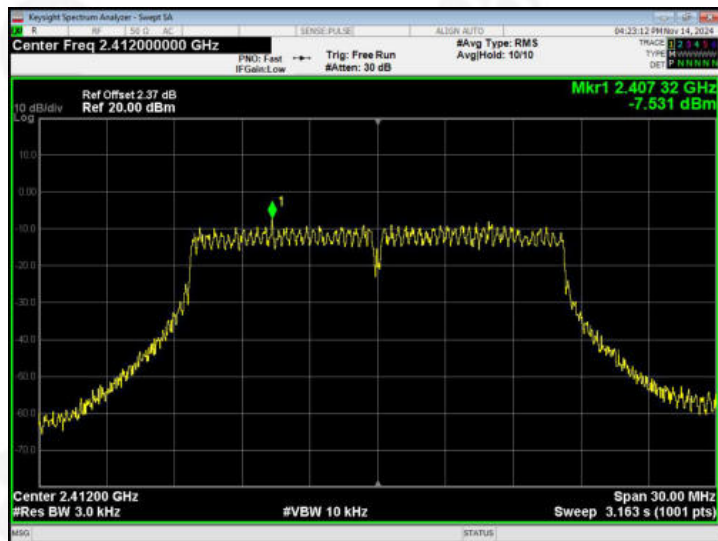
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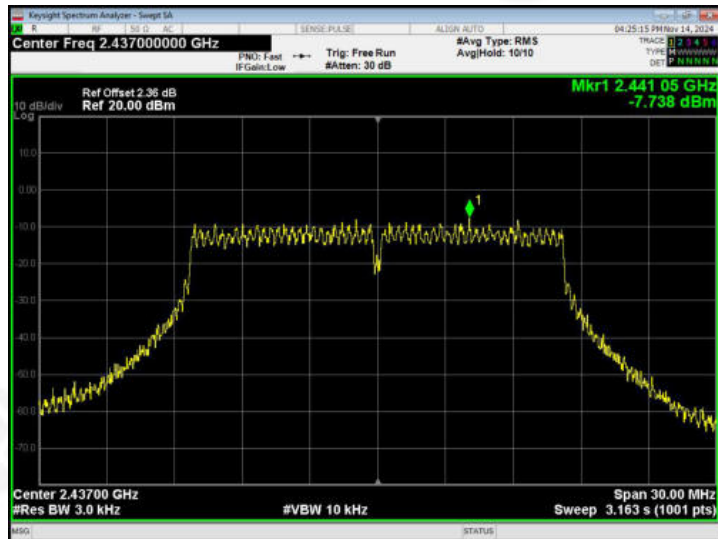
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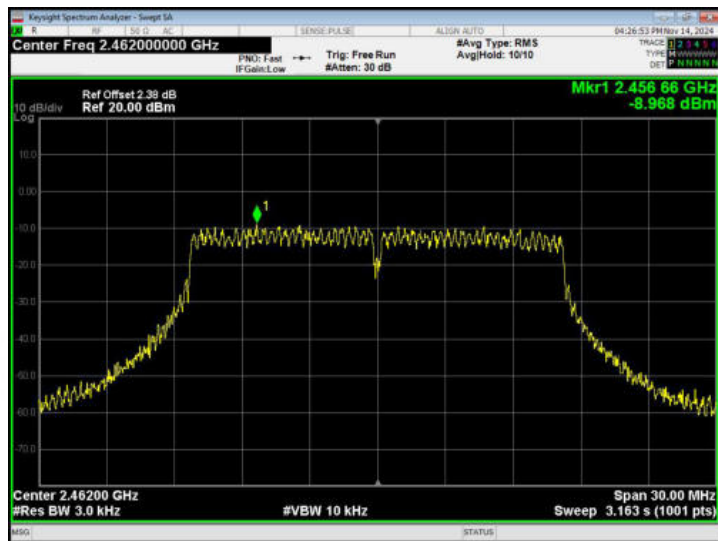
SISO ANT B - 802.11g
CH01



CH06

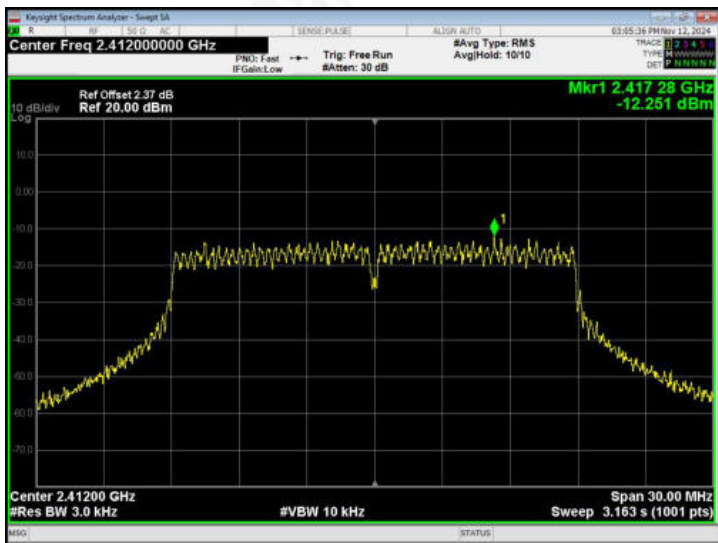


CH11

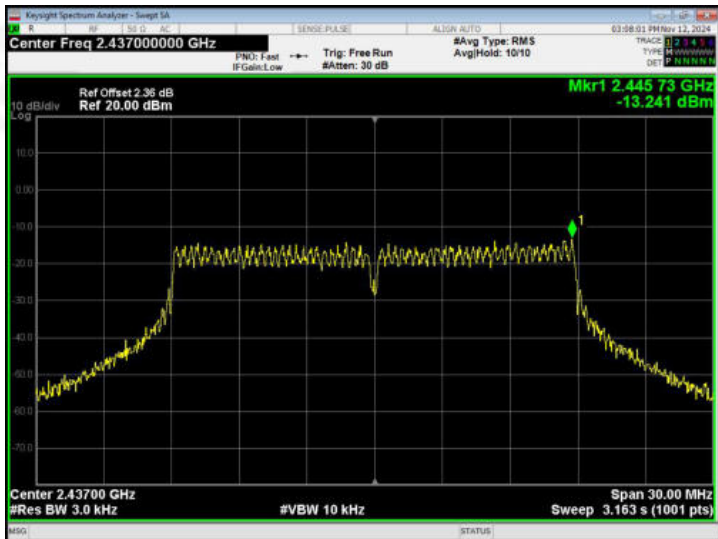




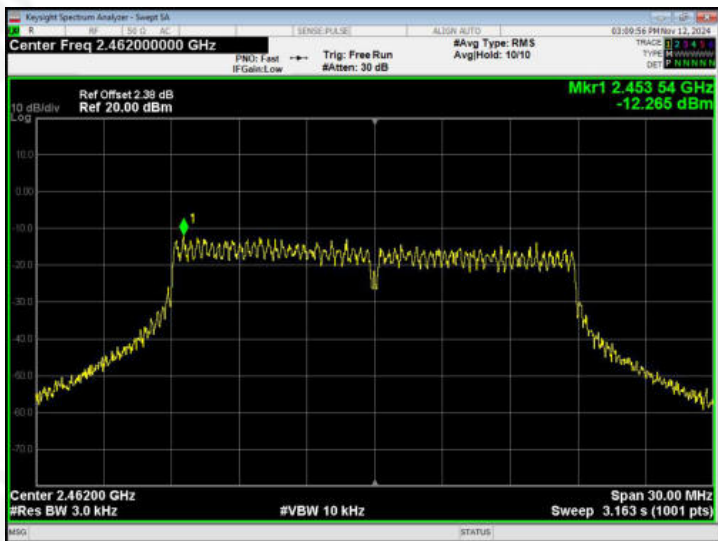
SISO ANT A - 802.11n20
CH01



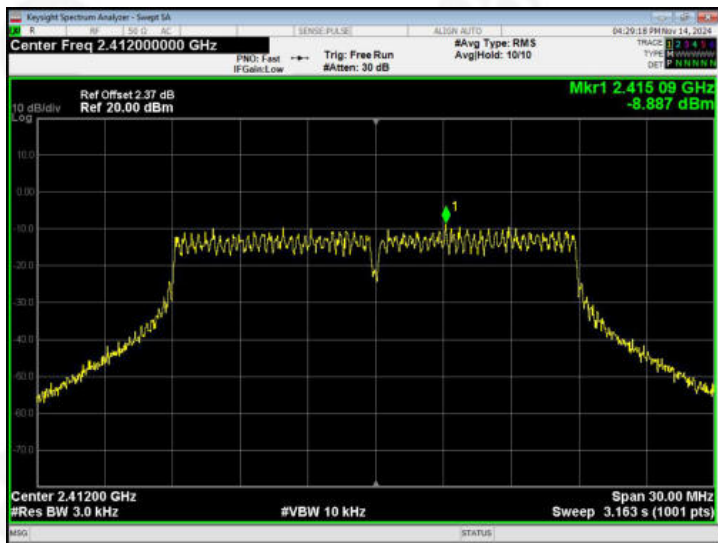
CH06



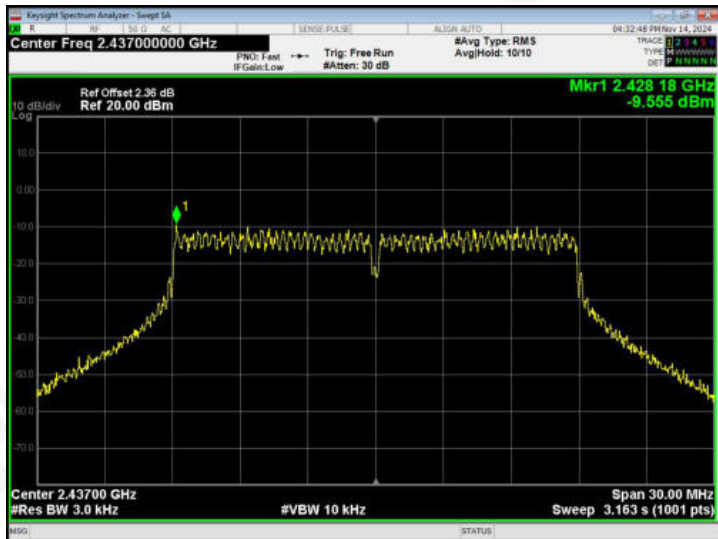
CH11



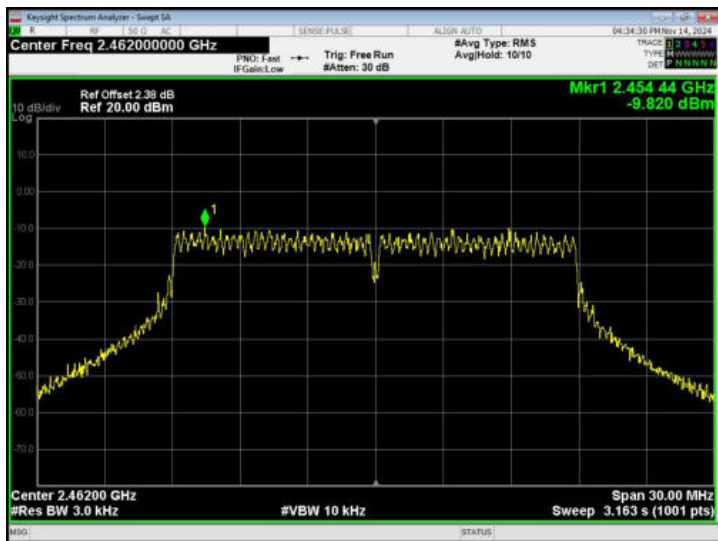
SISO ANT B - 802.11n20
CH01



CH06

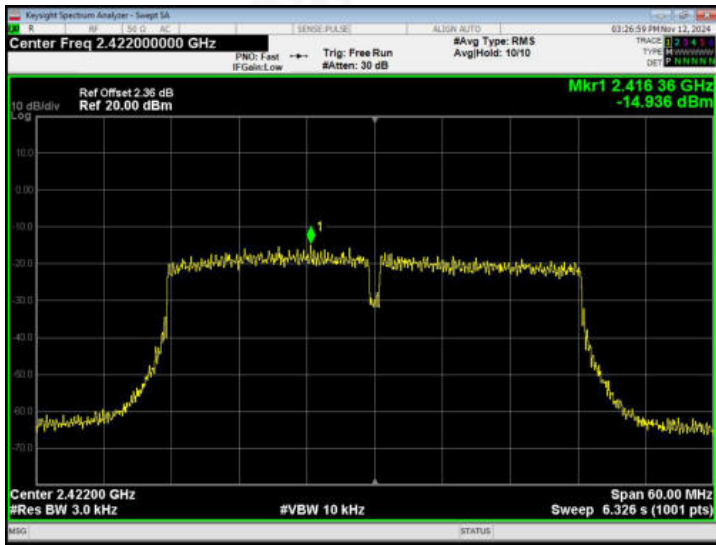


CH11

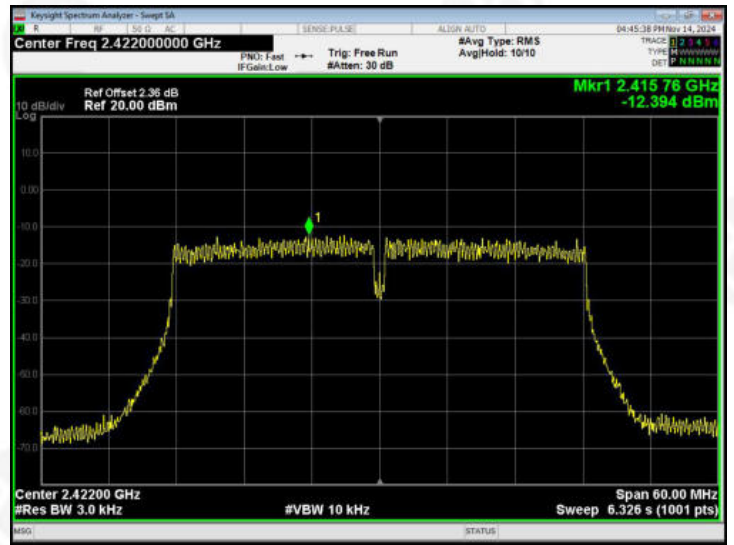




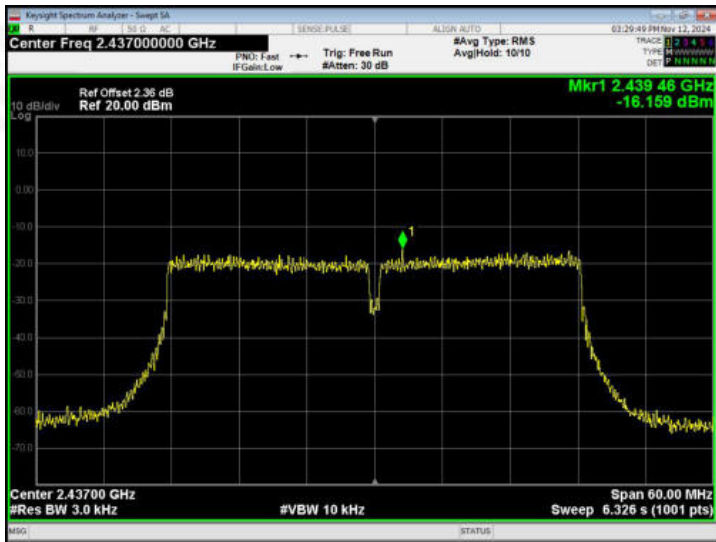
SISO ANT A - 802.11n40
CH03



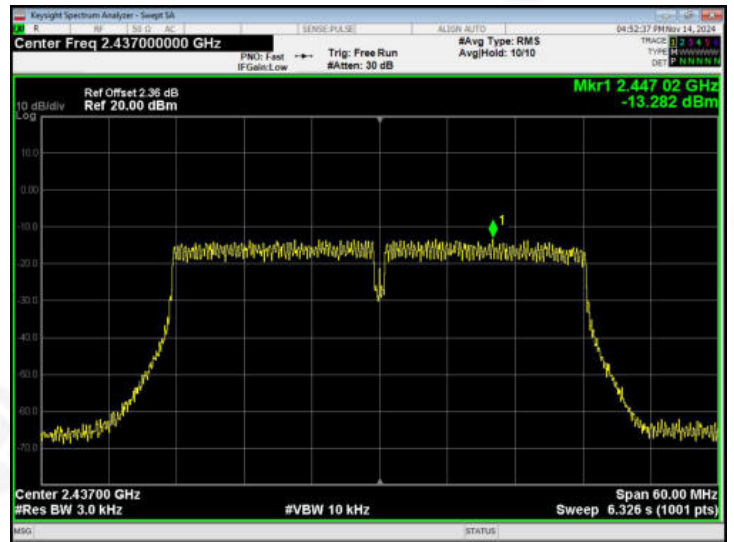
CH06



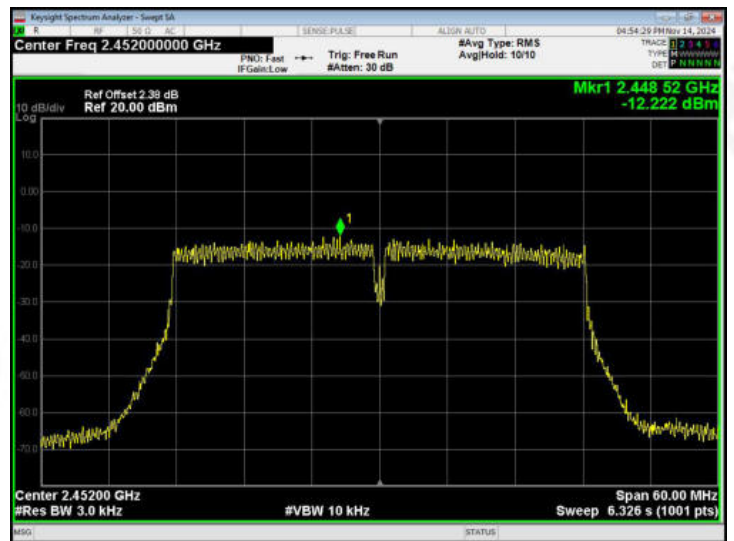
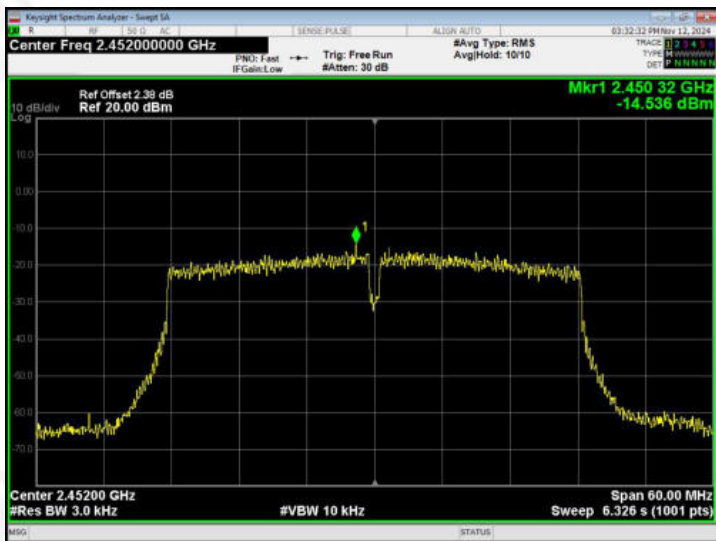
CH06



CH09

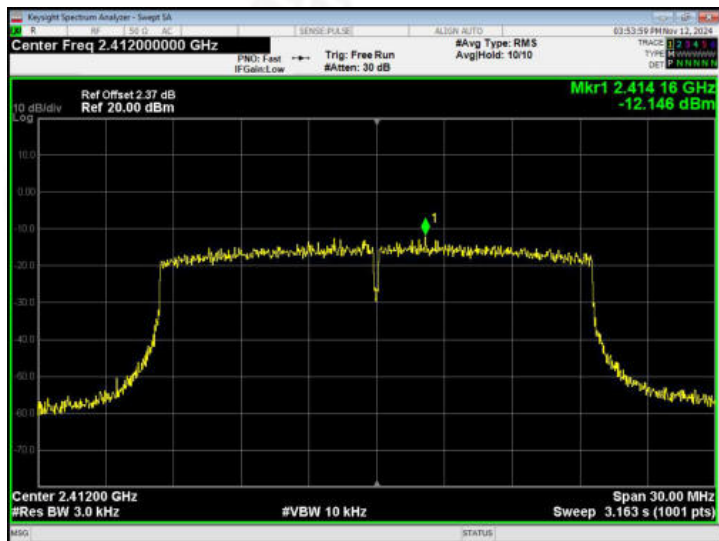


CH09

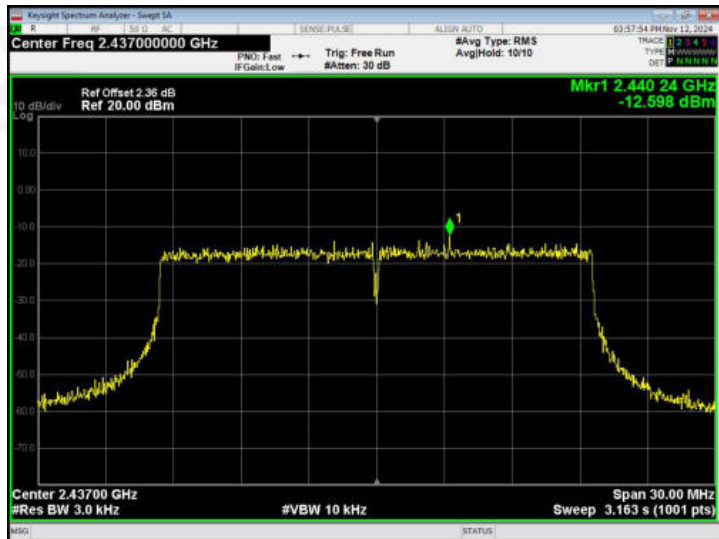




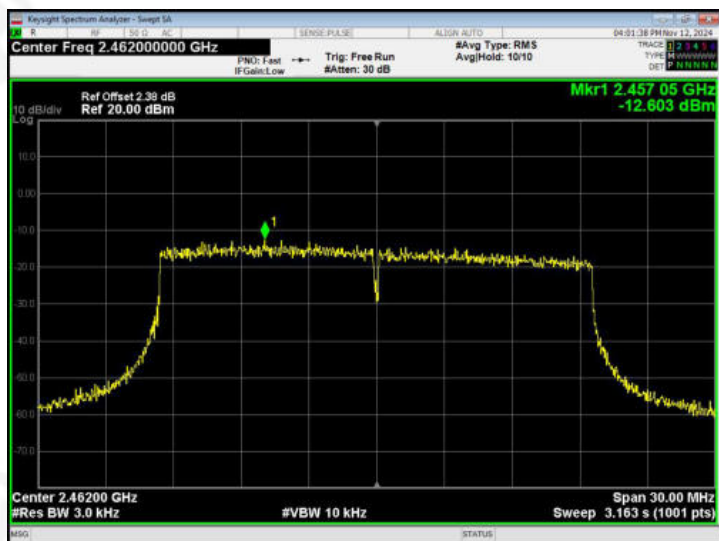
SISO ANT A - 802.11ax20
CH01



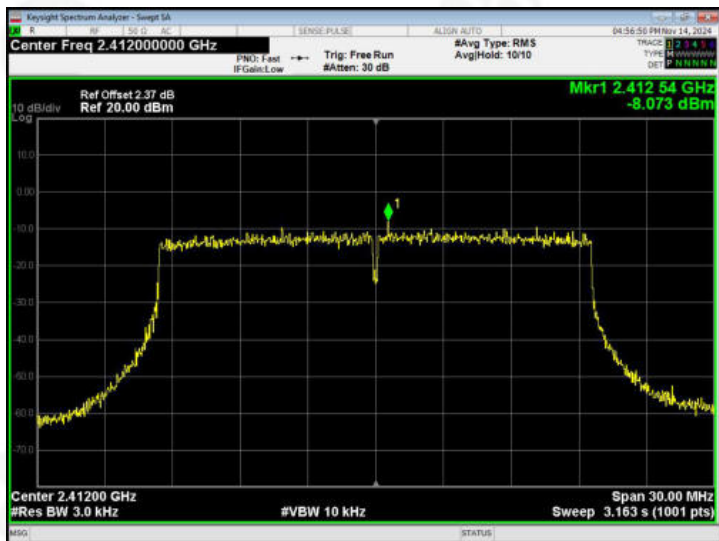
CH06



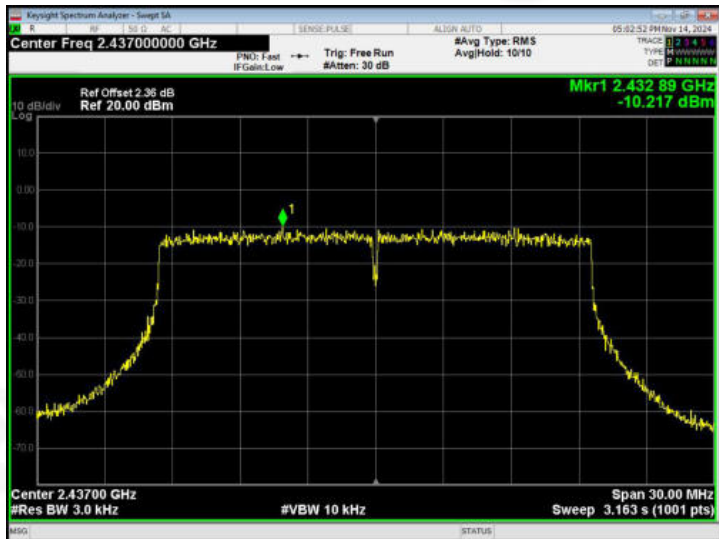
CH11



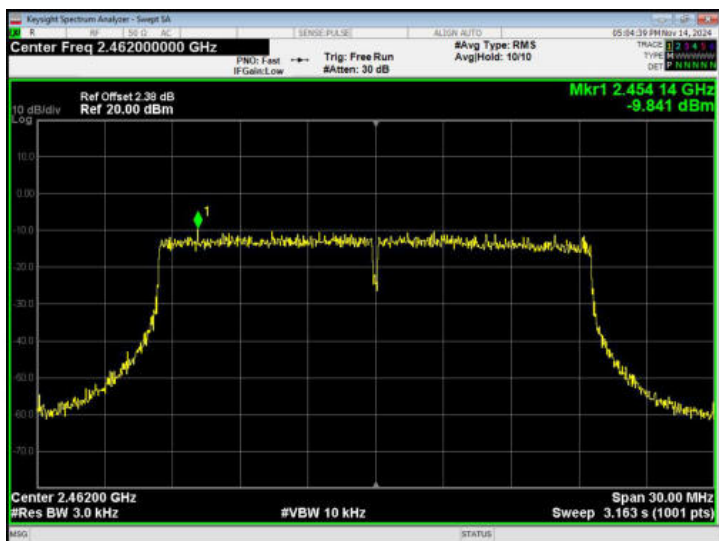
SISO ANT B - 802.11ax20
CH01



CH06

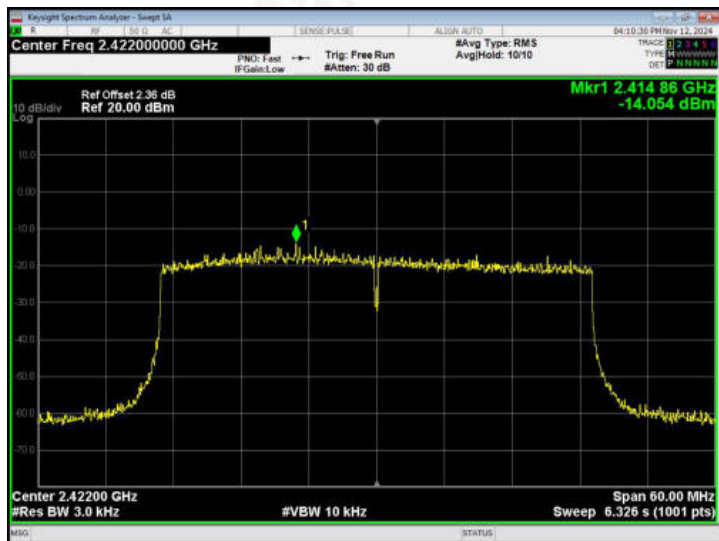


CH11

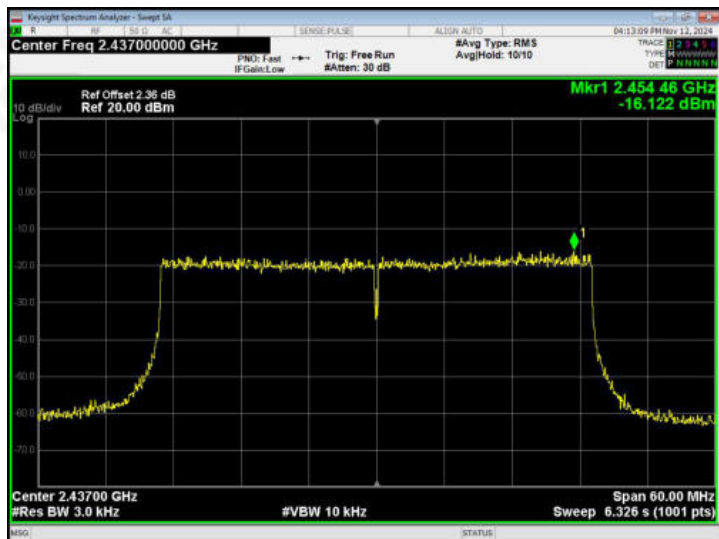




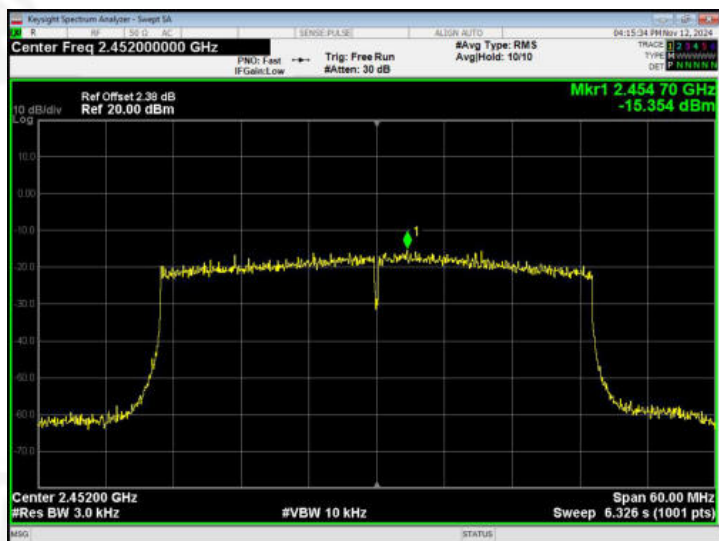
SISO ANT A - 802.11ax40
CH03



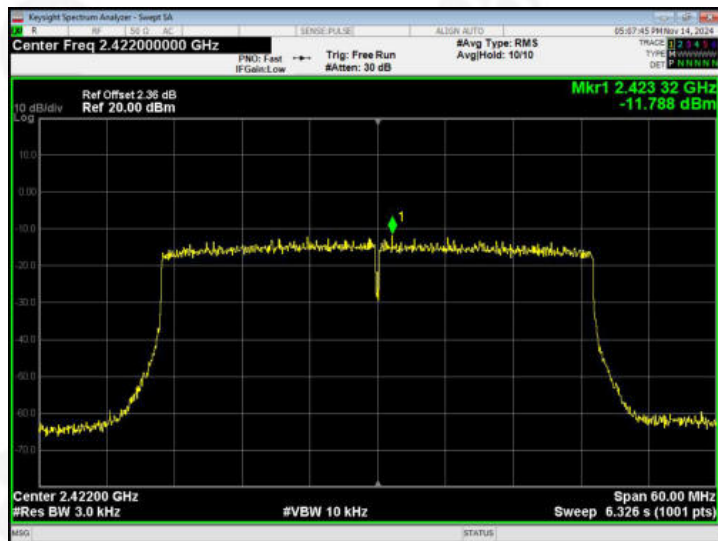
CH06



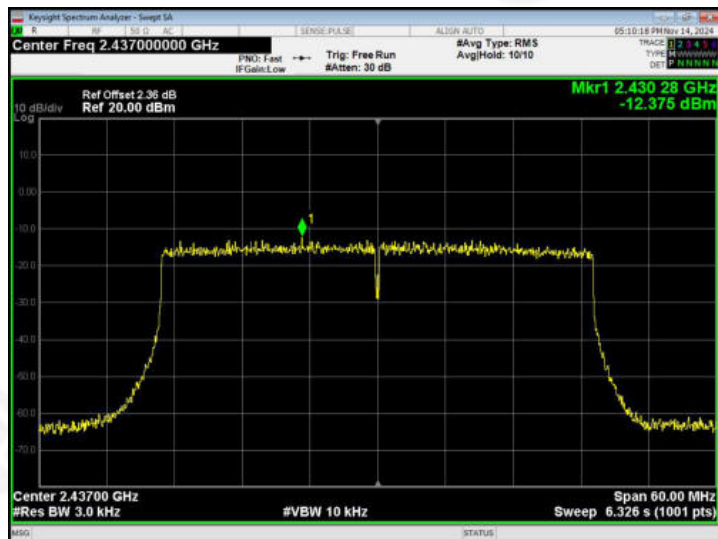
CH09



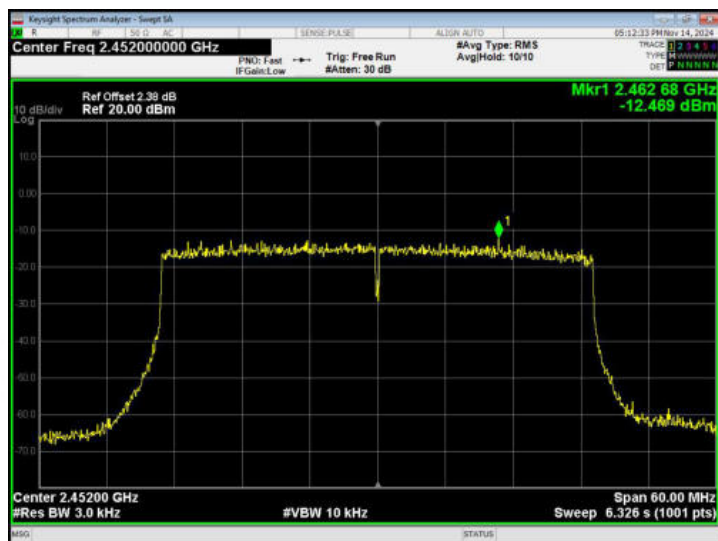
SISO ANT B - 802.11ax40
CH03



CH06



CH09





7. 6DB BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.85V

Test Mode	Antenna	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	SISO ANT A	2412	7.601	>500	PASS
		2437	8.058		
		2462	7.345		
	SISO ANT B	2412	7.872	>500	PASS
		2437	8.060		
		2462	7.762		
802.11g	SISO ANT A	2412	16.01	>500	PASS
		2437	16.41		
		2462	15.69		
	SISO ANT B	2412	16.25	>500	PASS
		2437	16.37		
		2462	16.32		
802.11n20	SISO ANT A	2412	17.65	>500	PASS
		2437	17.73		
		2462	17.32		
	SISO ANT B	2412	17.72	>500	PASS
		2437	17.73		
		2462	17.70		
802.11n40	SISO ANT A	2422	34.93	>500	PASS
		2437	36.43		
		2452	35.45		
	SISO ANT B	2422	35.68	>500	PASS
		2437	36.30		
		2452	35.64		
802.11ax20	SISO ANT A	2412	16.07	>500	PASS
		2437	18.91		
		2462	17.04		



	SISO ANT B	2412	18.63	>500	PASS
		2437	18.81		
		2462	18.66		
802.11ax40	SISO ANT A	2422	37.01	>500	PASS
		2437	37.92		
		2452	35.94		
	SISO ANT B	2422	37.75	>500	PASS
		2437	37.36		
		2452	37.10		

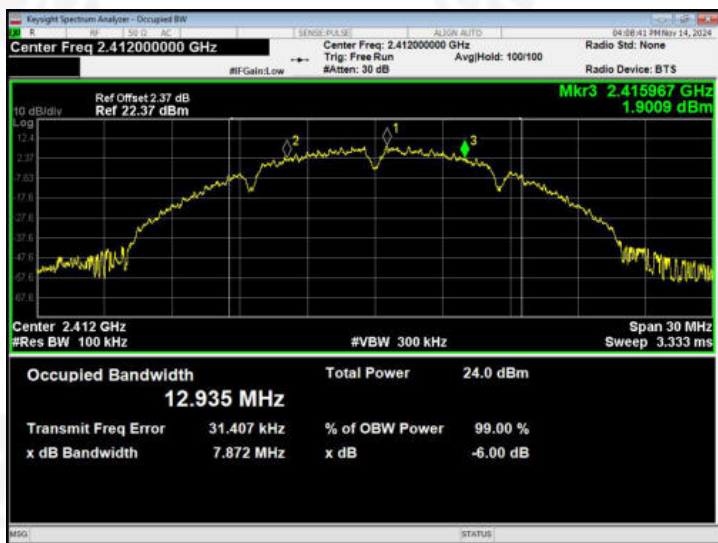


6dB Bandwidth

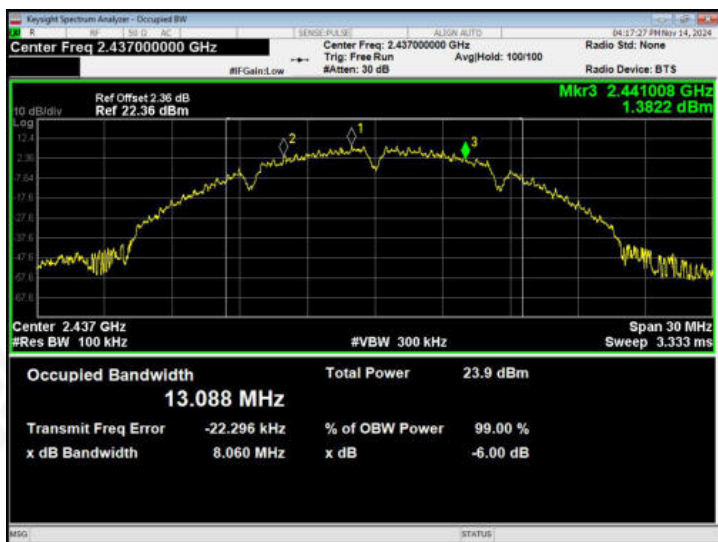
SISO ANT A - 802.11b

SISO ANT B - 802.11b

Lowest channel



Middle channel



Highest channel

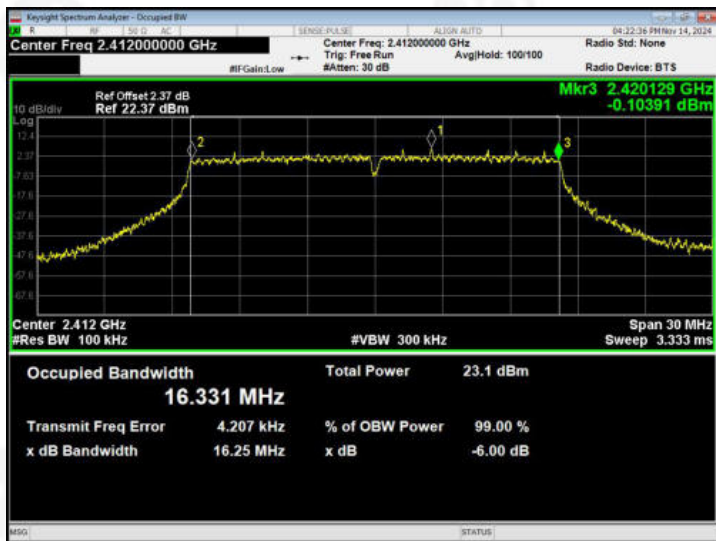
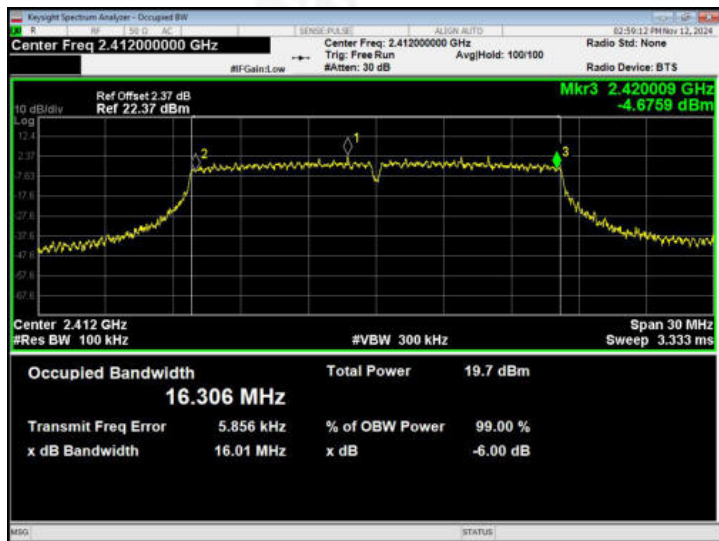




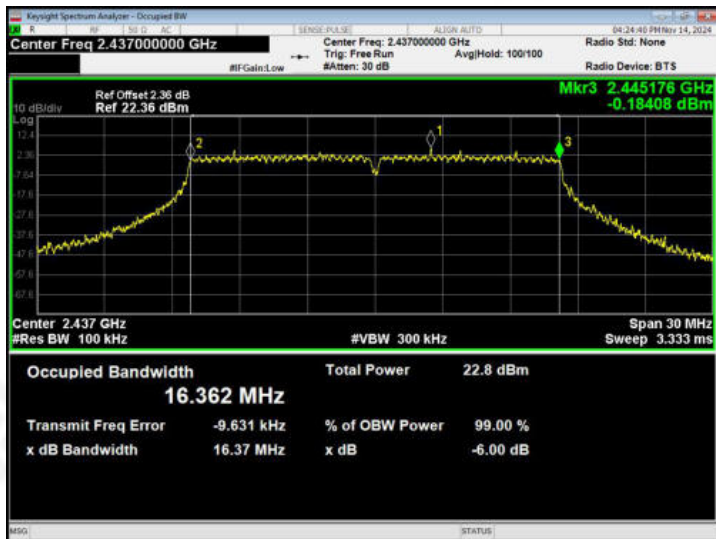
SISO ANT A - 802.11g

SISO ANT B - 802.11g

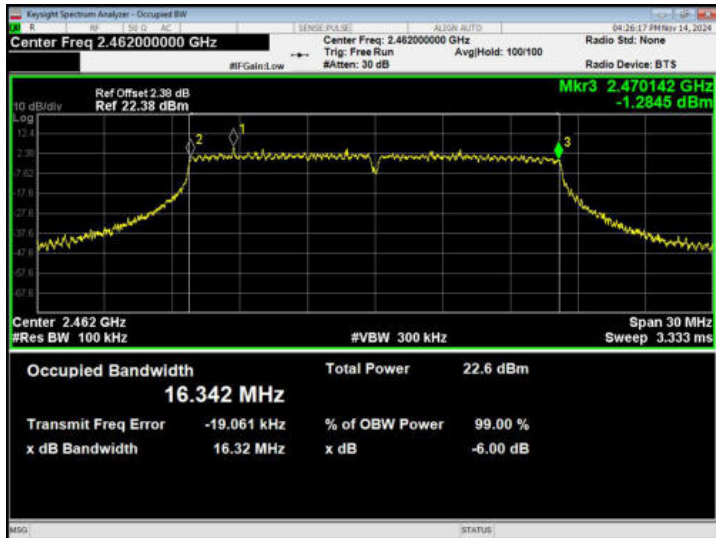
Lowest channel



Middle channel



Highest channel

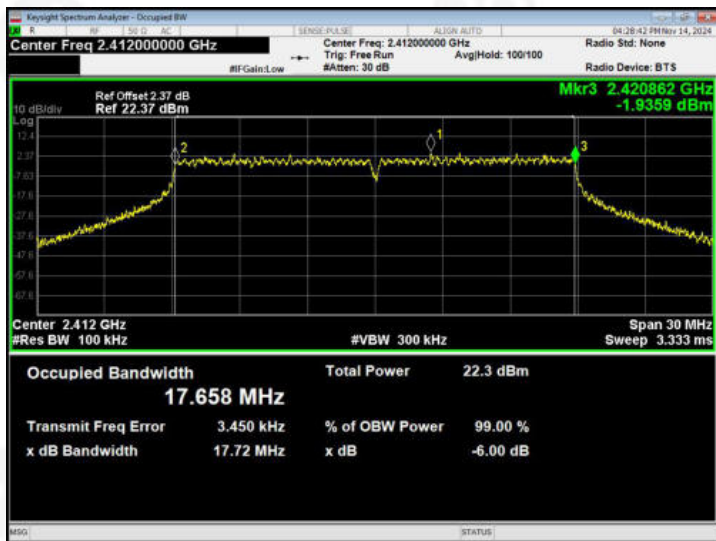
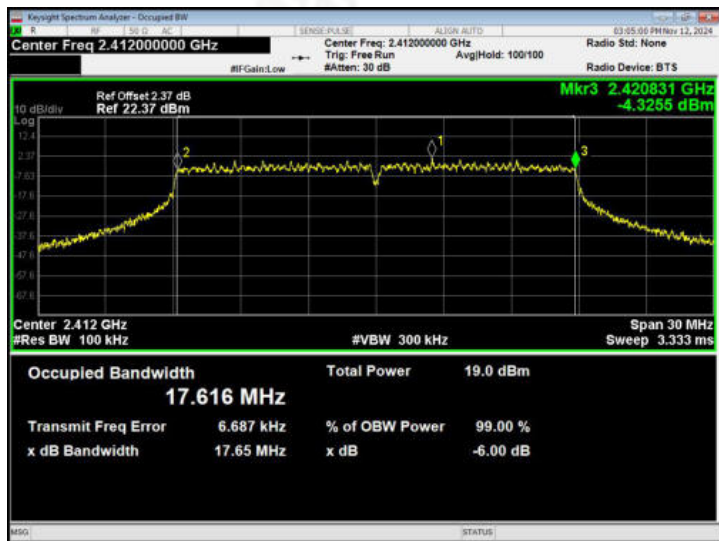




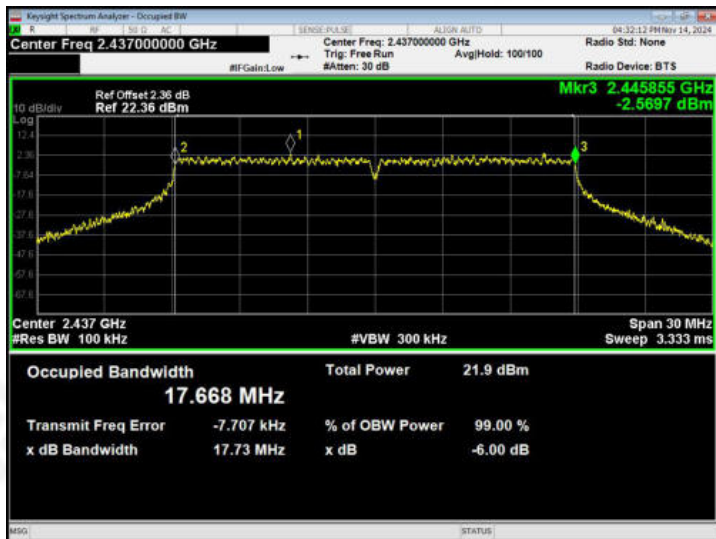
SISO ANT A - 802.11n20

SISO ANT B - 802.11n20

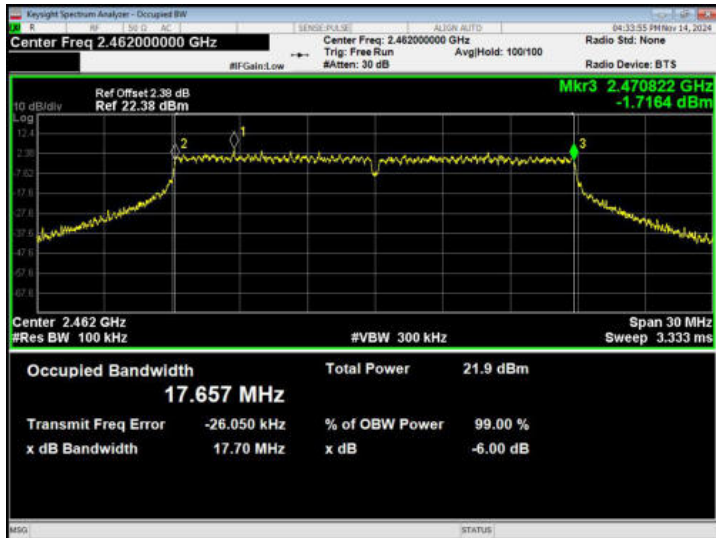
Lowest channel



Middle channel



Highest channel

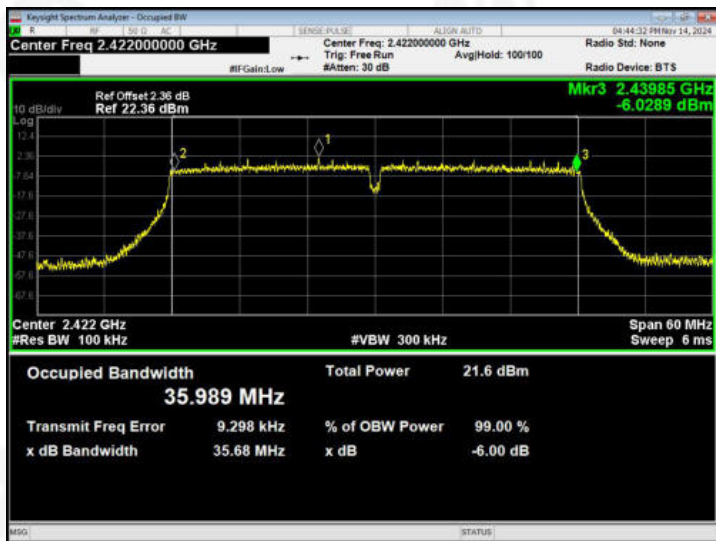
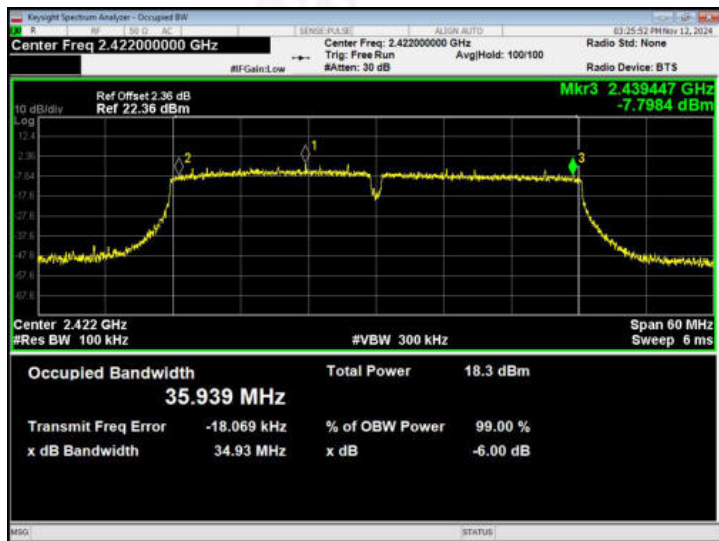




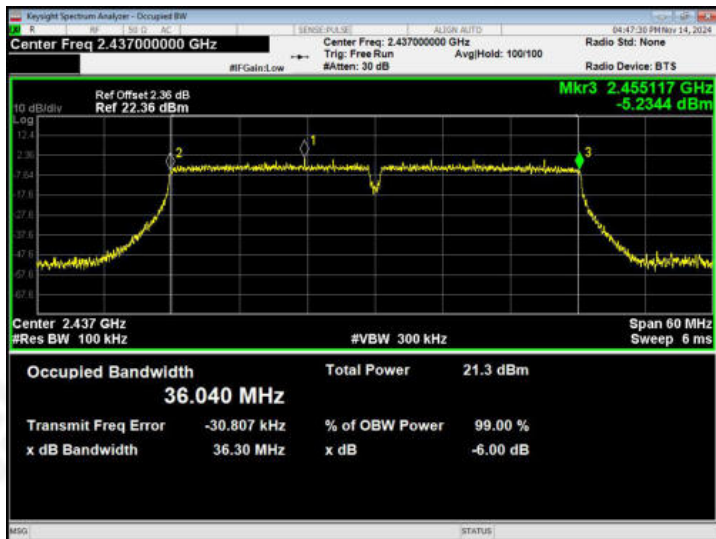
SISO ANT A - 802.11n40

SISO ANT B - 802.11n40

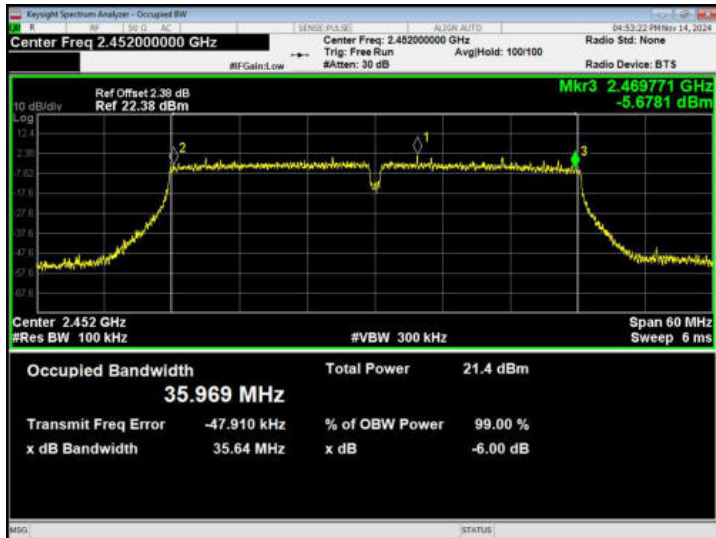
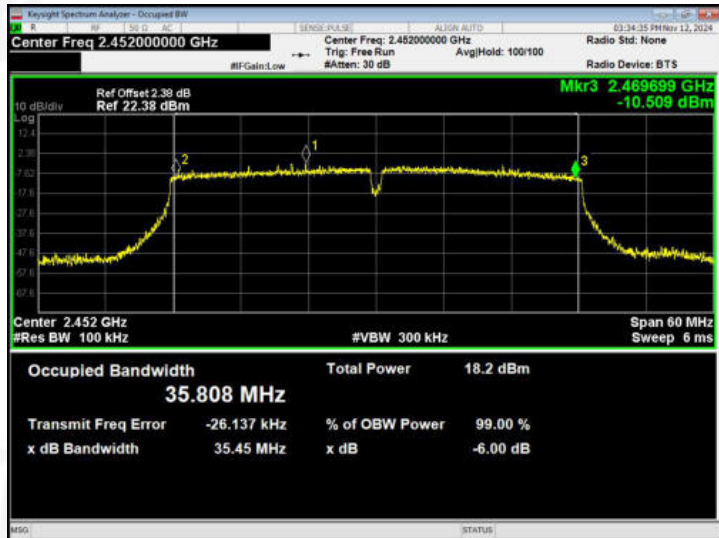
Lowest channel



Middle channel



Highest channel

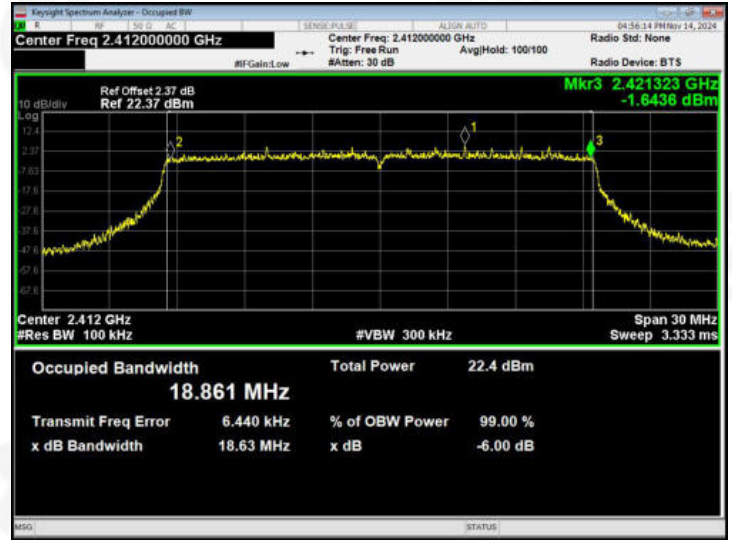
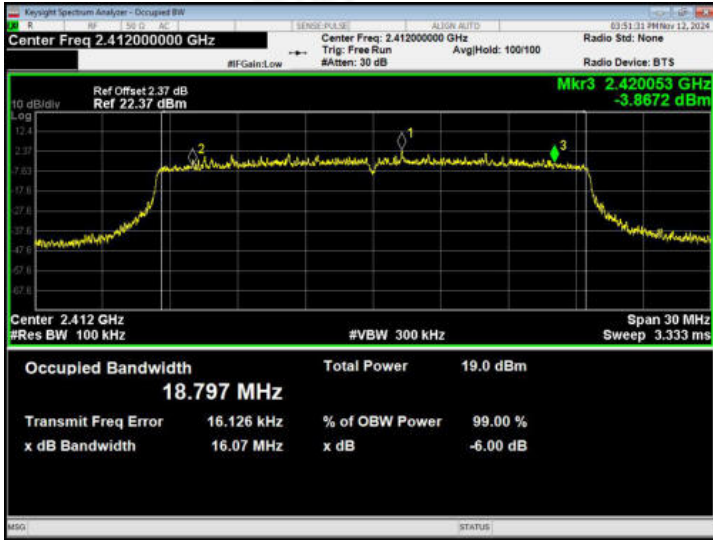




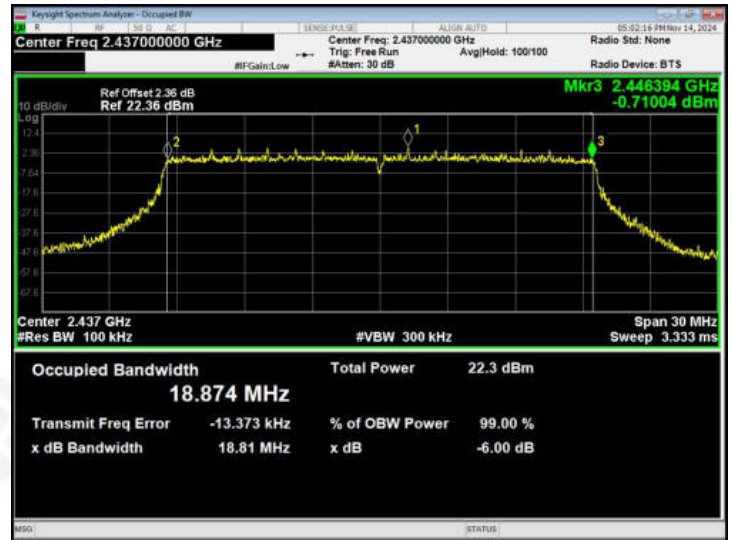
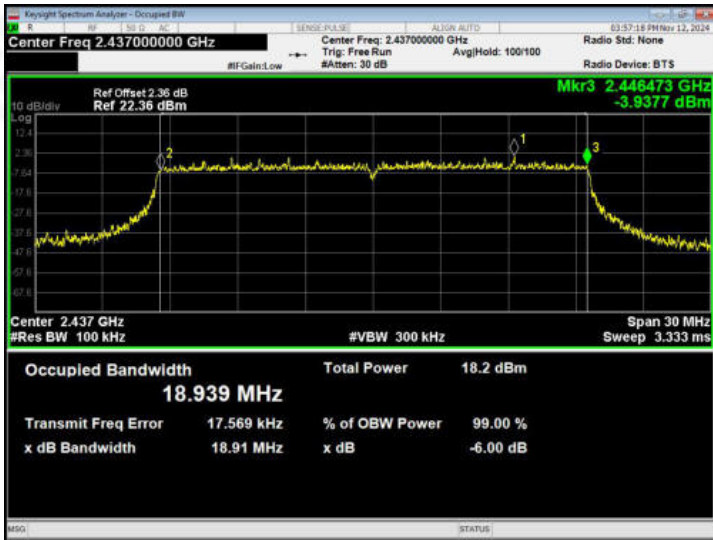
SISO ANT A - 802.11ax20

SISO ANT B - 802.11ax20

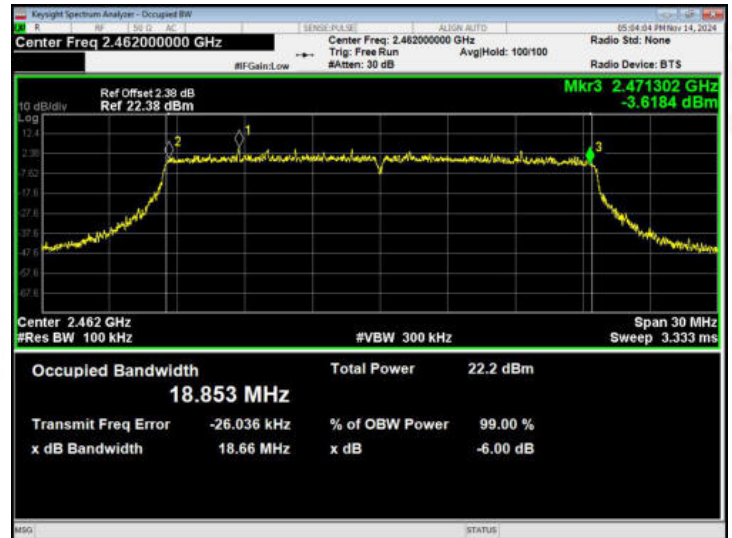
Lowest channel



Middle channel



Highest channel

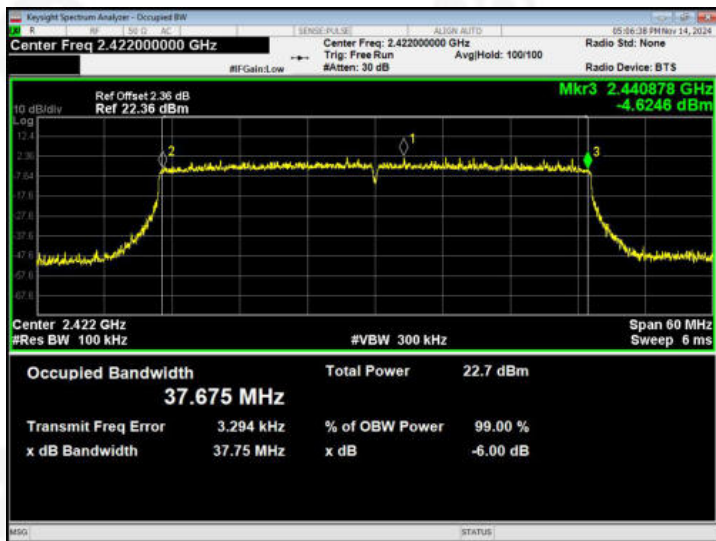
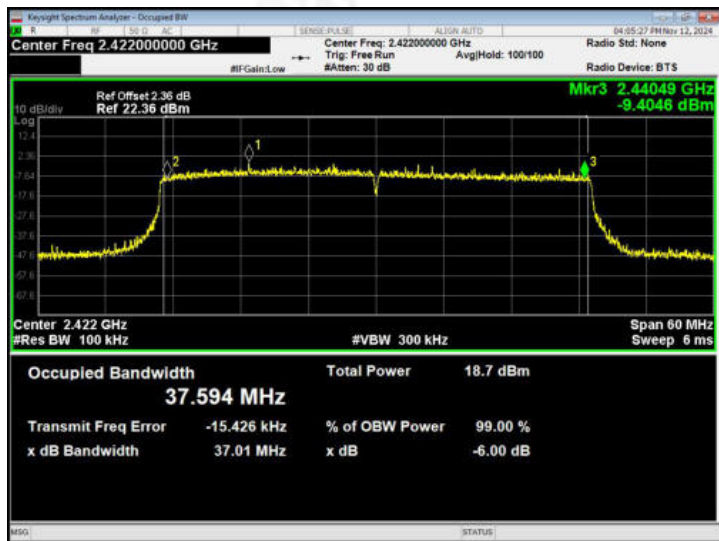




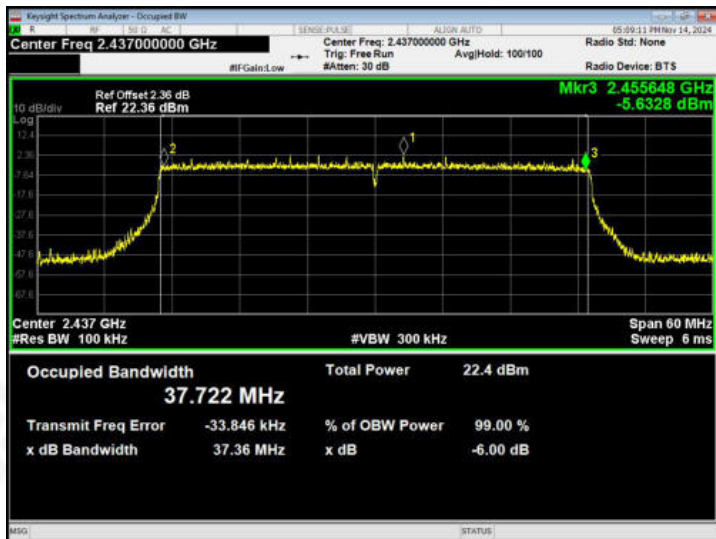
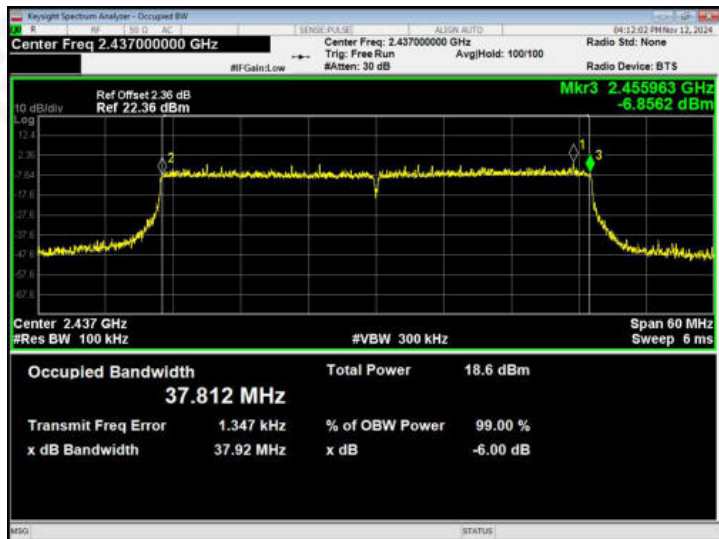
SISO ANT A - 802.11ax40

SISO ANT B - 802.11ax40

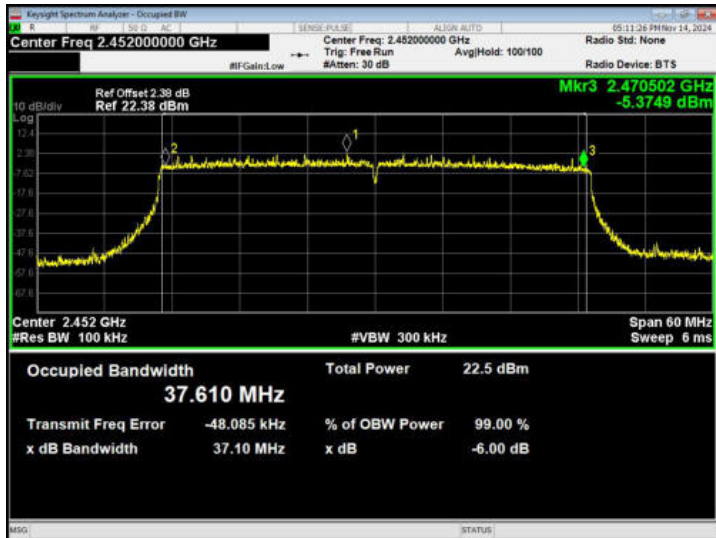
Lowest channel



Middle channel



Highest channel





8. PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.85V

Test Mode	Antenna	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Result
802.11b	SISO ANT A	2412	16.132	30.00	Pass
		2437	15.282		
		2462	16.122		
	SISO ANT B	2412	18.237	30.00	Pass
		2437	17.068		
		2462	18.767		
802.11g	SISO ANT A	2412	18.426	30.00	Pass
		2437	17.638		
		2462	18.182		
	SISO ANT B	2412	20.665	30.00	Pass
		2437	19.433		
		2462	20.349		
802.11n20	SISO ANT A	2412	17.460	30.00	Pass
		2437	16.561		
		2462	17.199		
	SISO ANT B	2412	19.649	30.00	Pass
		2437	18.542		
		2462	19.226		
	MIMO A+B	2412	21.701	30.00	Pass
		2437	20.674		
		2462	21.340		
802.11n40	SISO ANT A	2422	16.795	30.00	Pass
		2437	16.629		
		2452	16.852		
	SISO ANT B	2422	18.238	30.00	Pass
		2437	18.916		
		2452	18.015		



	MIMO A+B	2422	20.586	30.00	Pass
		2437	20.932		
		2452	20.483		
802.11ax20	SISO ANT A	2412	18.514	30.00	Pass
		2437	17.736		
		2462	18.337		
	SISO ANT B	2412	20.143	30.00	Pass
		2437	19.888		
		2462	20.752		
	MIMO A+B	2412	22.415	30.00	Pass
		2437	21.954		
		2462	22.721		
802.11ax40	SISO ANT A	2422	18.084	30.00	Pass
		2437	17.889		
		2452	18.176		
	SISO ANT B	2422	20.996	30.00	Pass
		2437	19.724		
		2452	20.692		
	MIMO A+B	2422	22.790	30.00	Pass
		2437	21.913		
		2452	22.624		



9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz 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, 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 in15.209(a).

9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

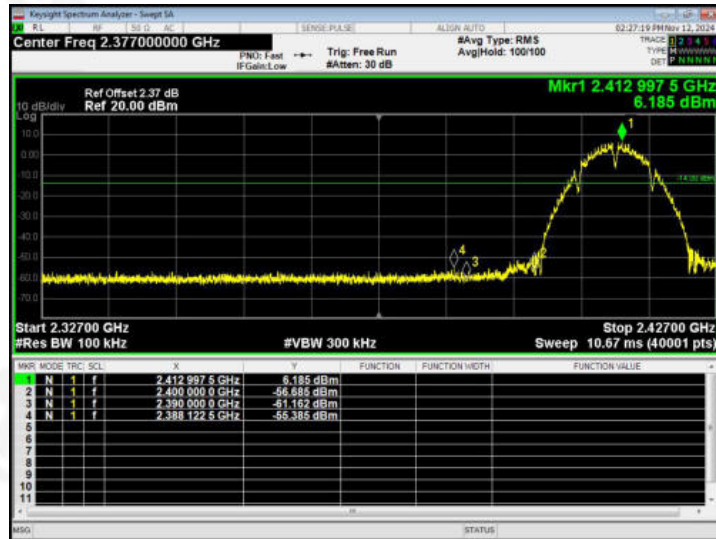
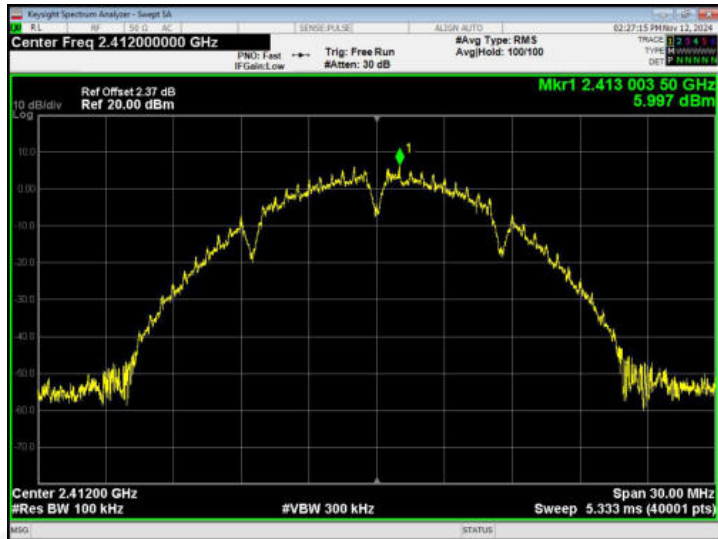
9.6 TEST RESULTS



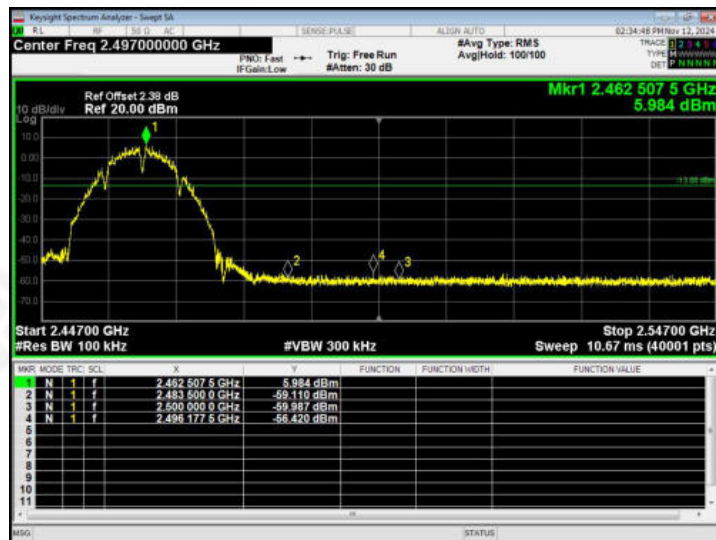
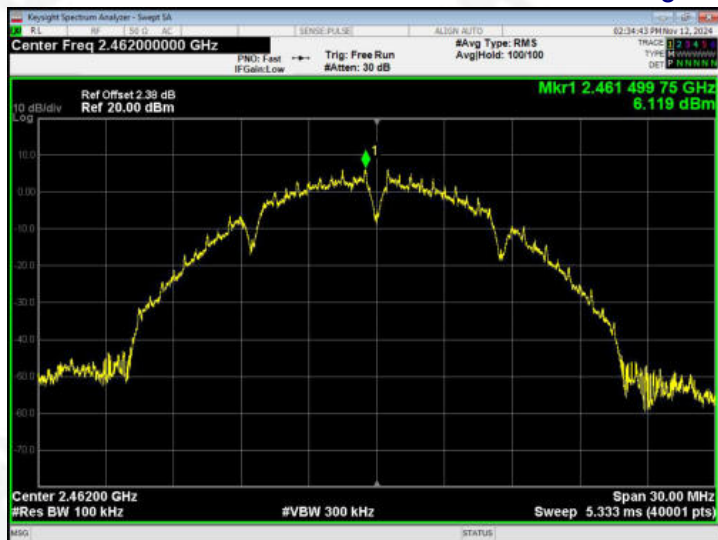
Test plot as follows:

SISO ANT A - 802.11b

Lowest channel

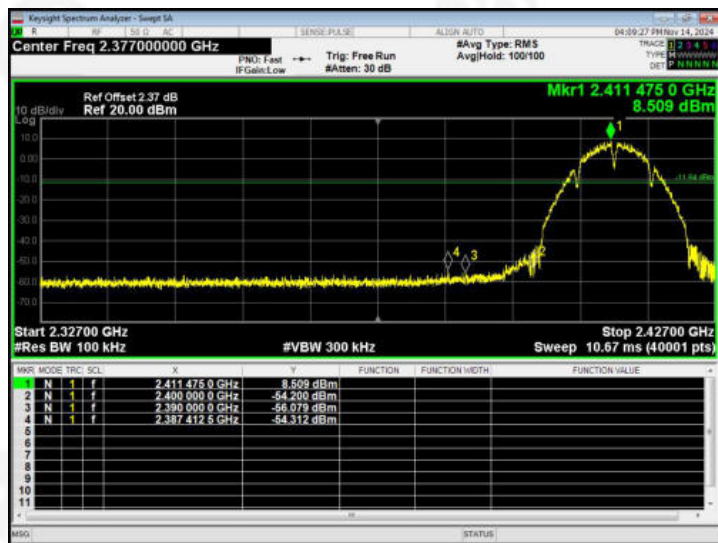
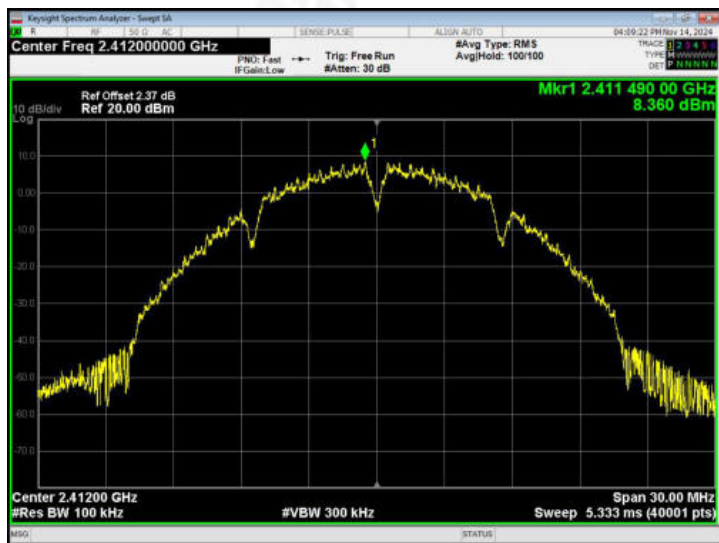


Highest channel

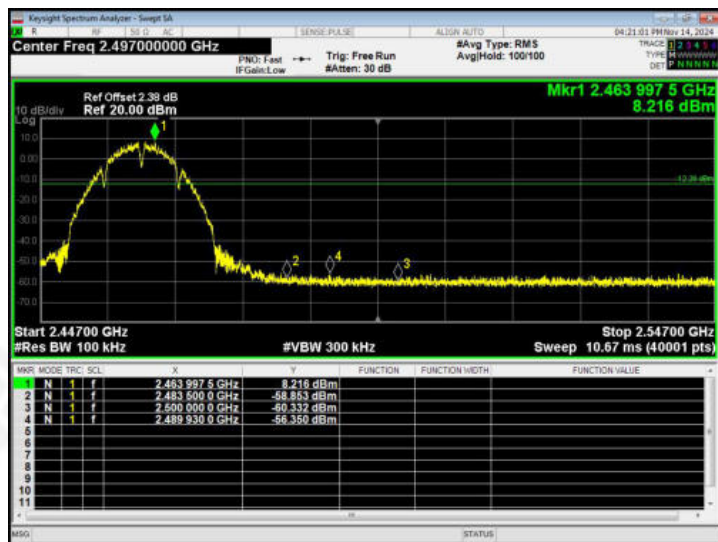
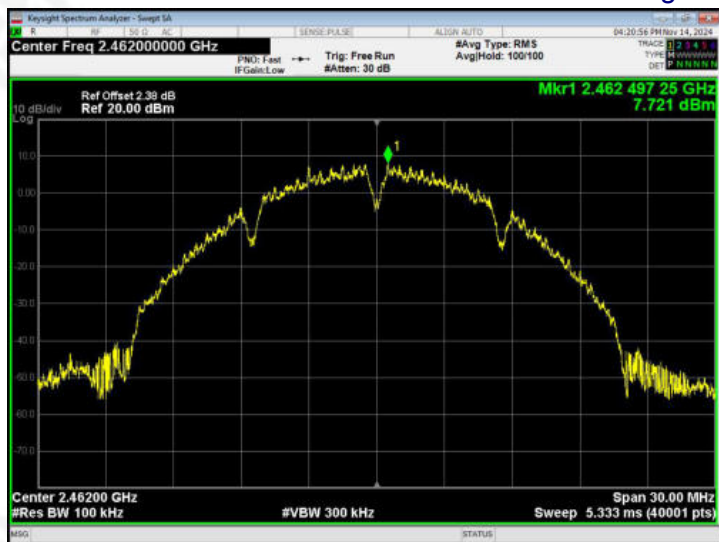




SISO ANT B - 802.11b
Lowest channel

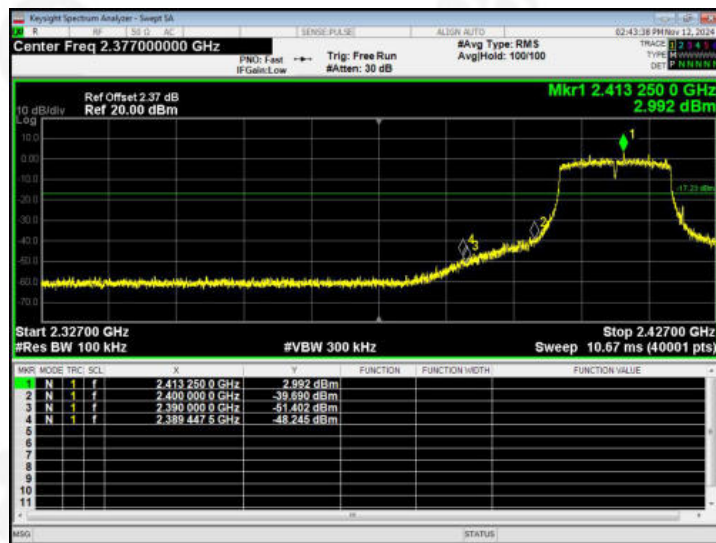
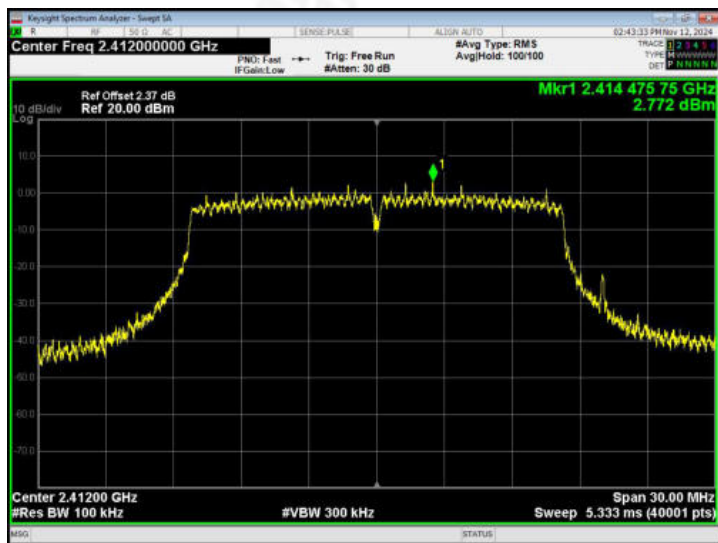


Highest channel

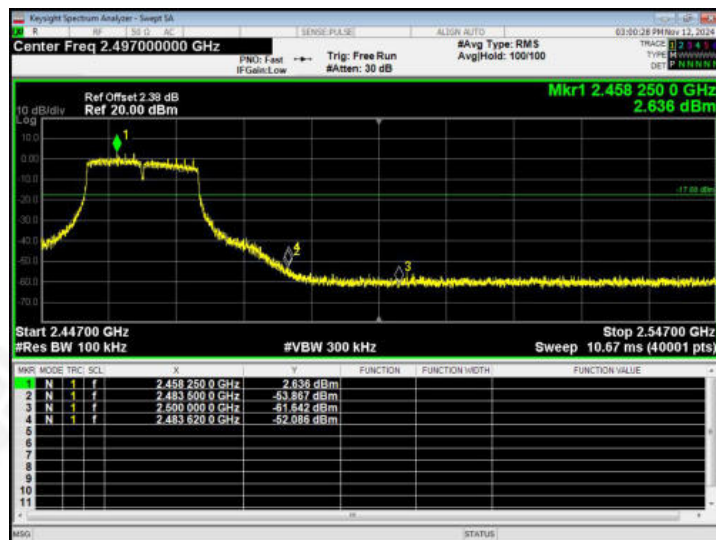
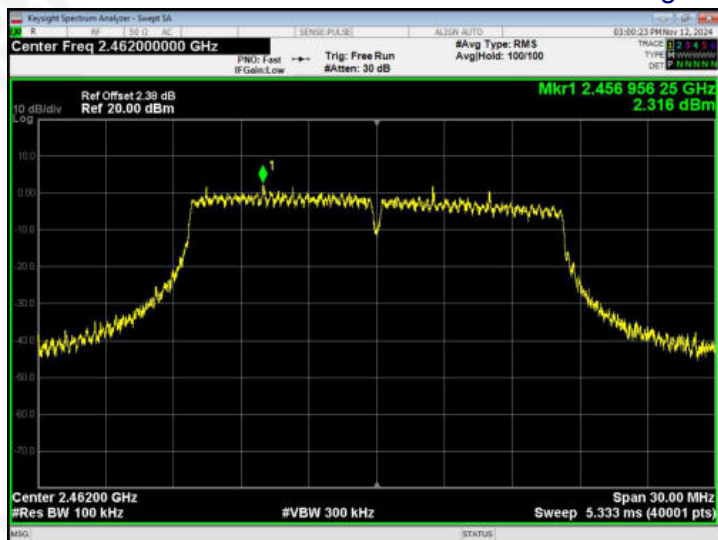




SISO ANT A - 802.11g
Lowest channel

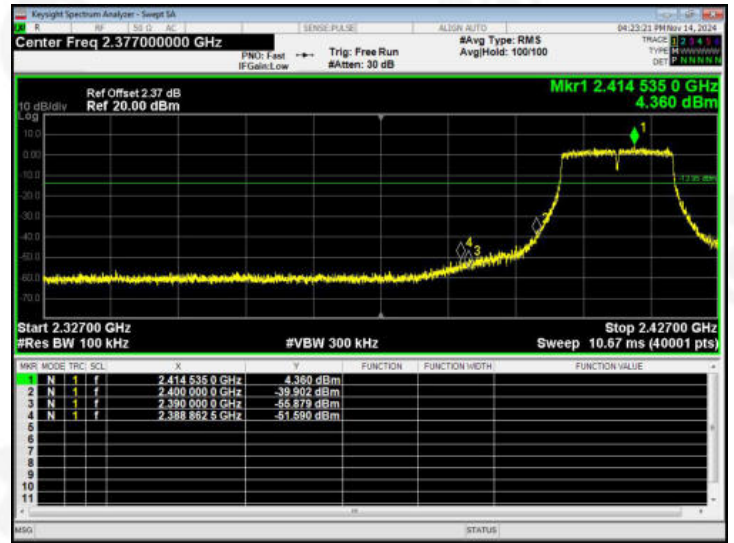
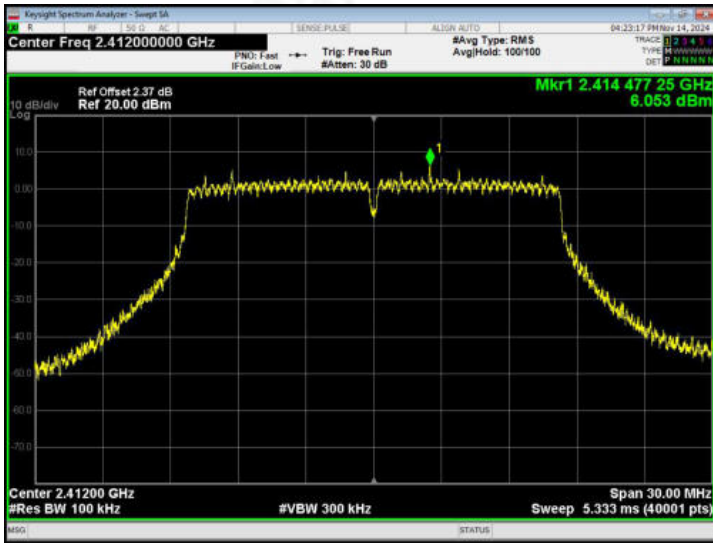


Highest channel

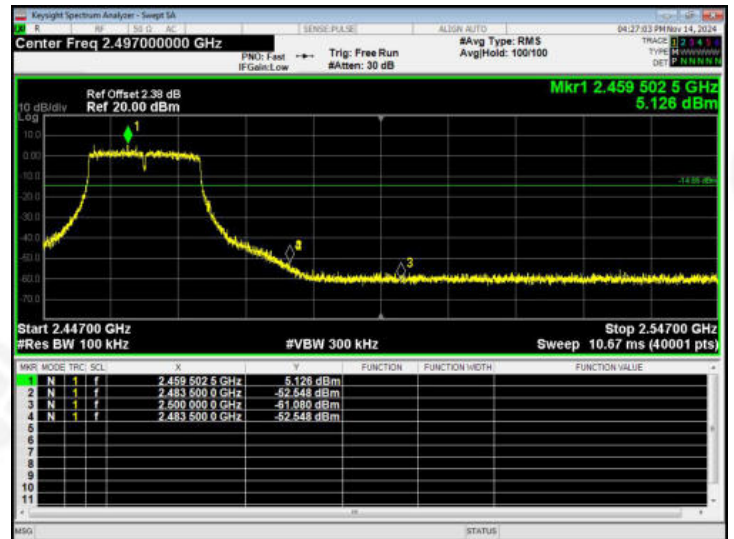
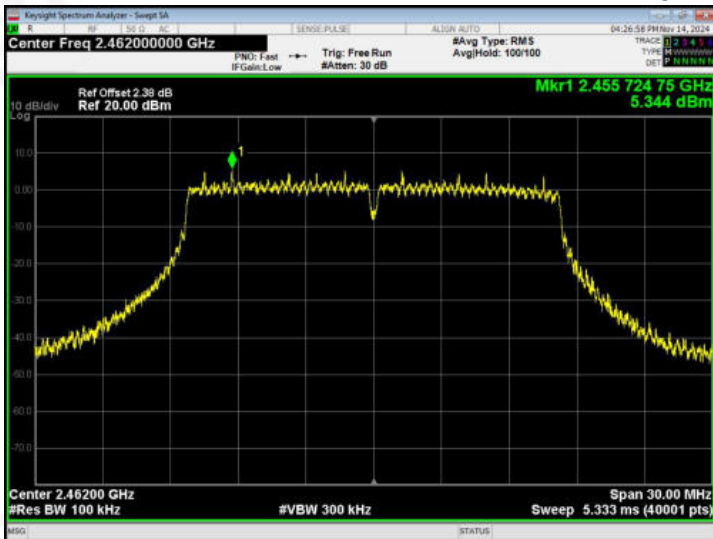




SISO ANT B - 802.11g
Lowest channel

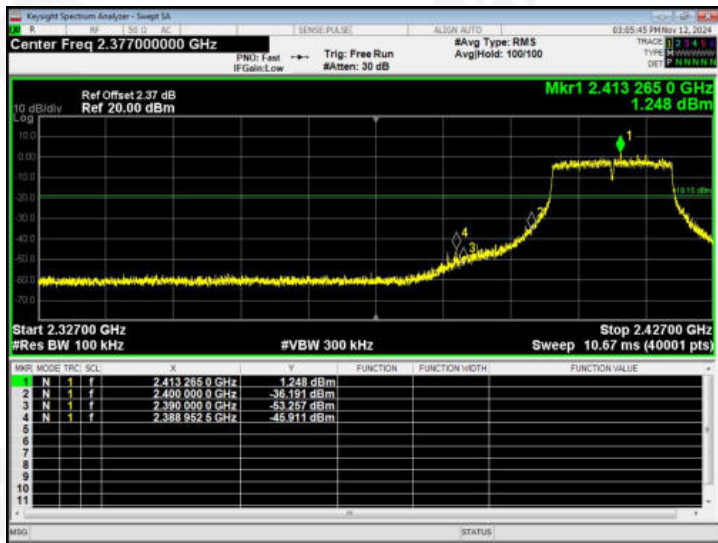
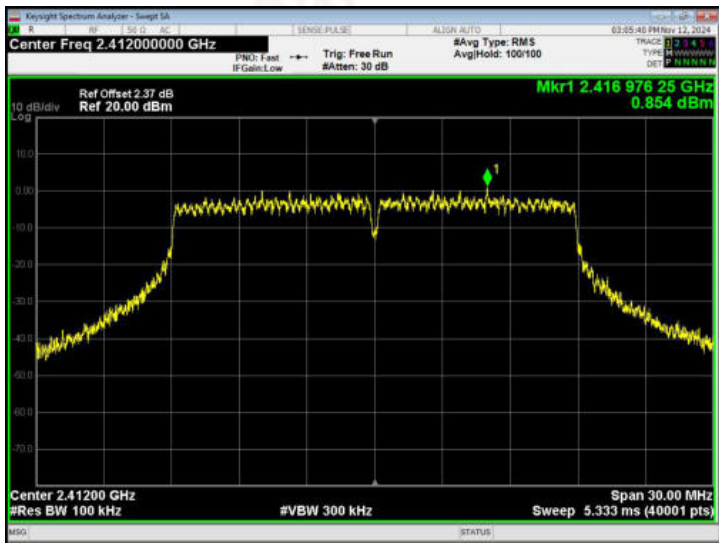


Highest channel

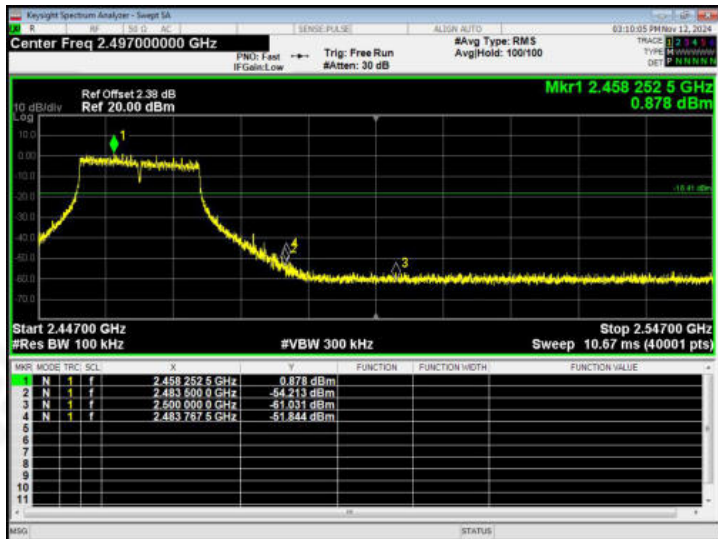
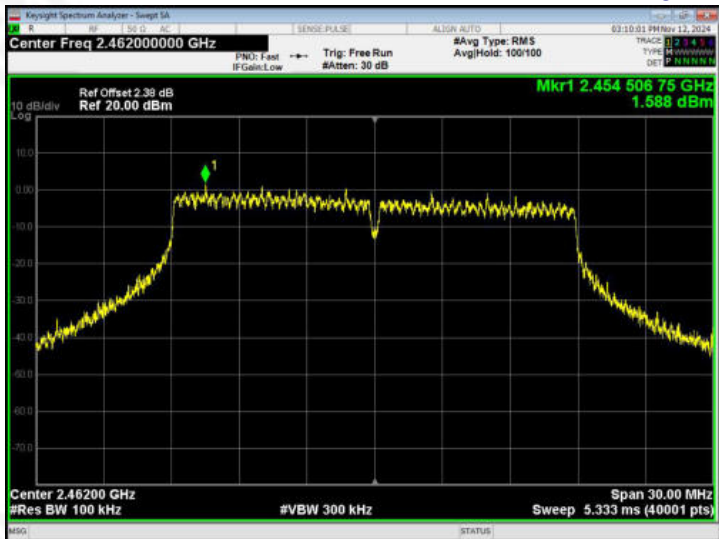




SISO ANT A - 802.11n20
Lowest channel



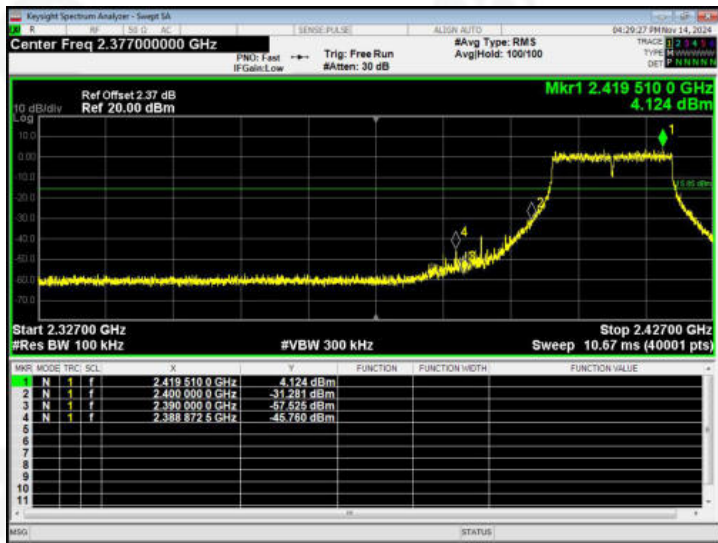
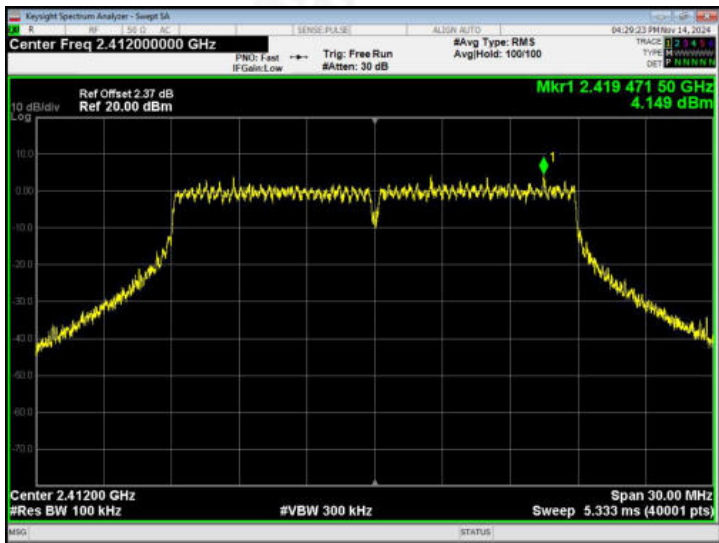
Highest channel



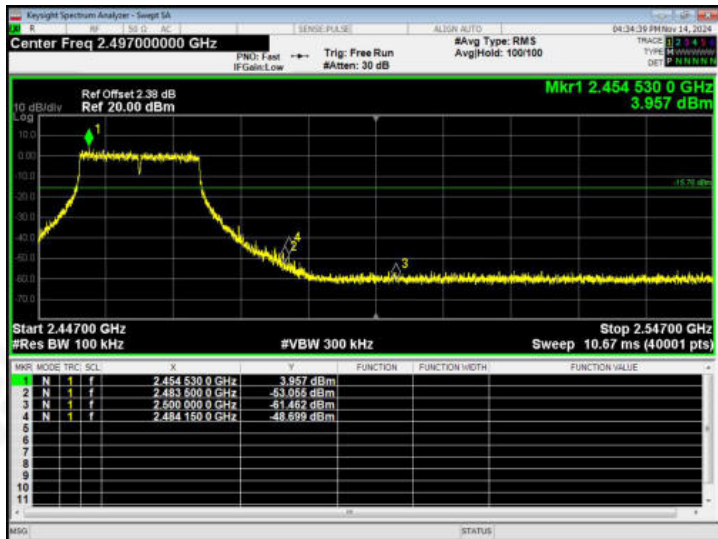
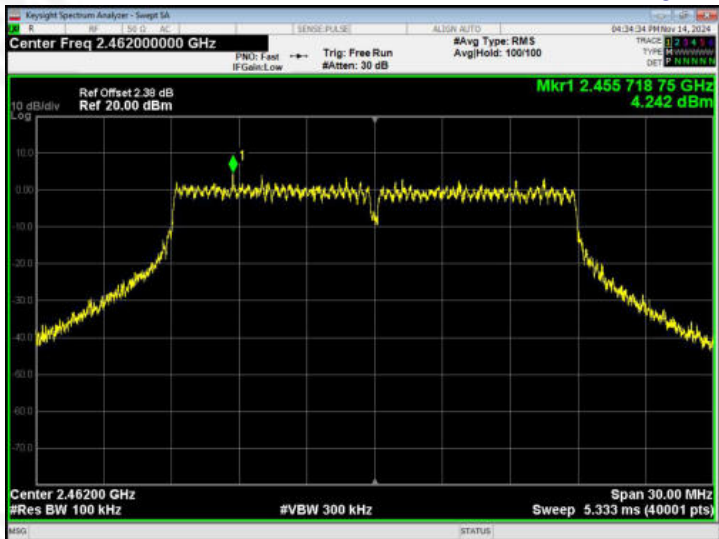
Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.



MIMO A - 802.11n20
Lowest channel



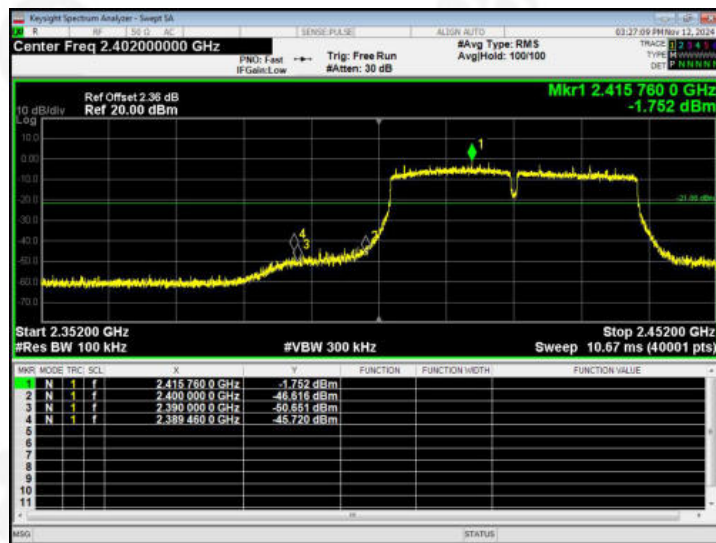
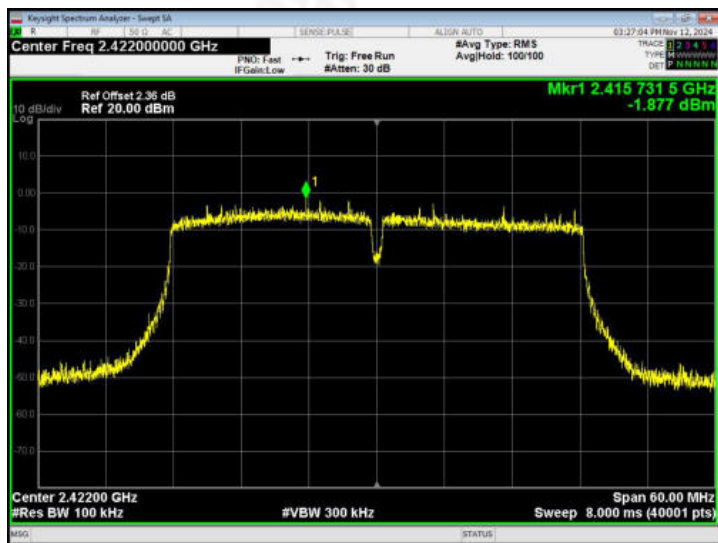
Highest channel



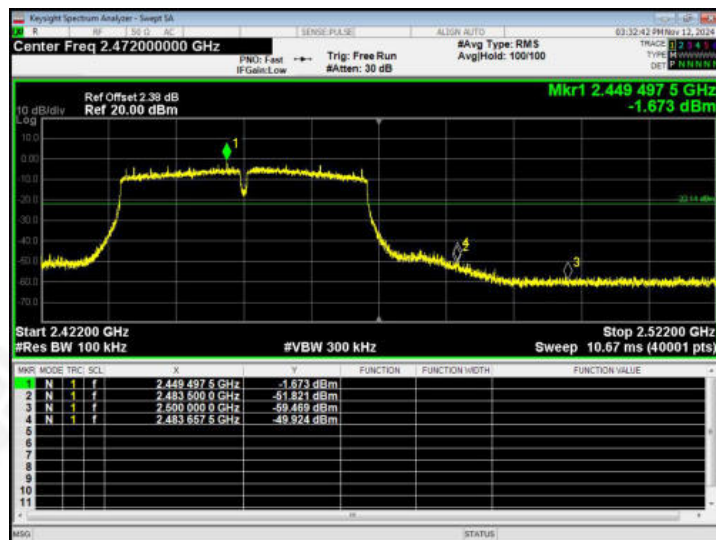
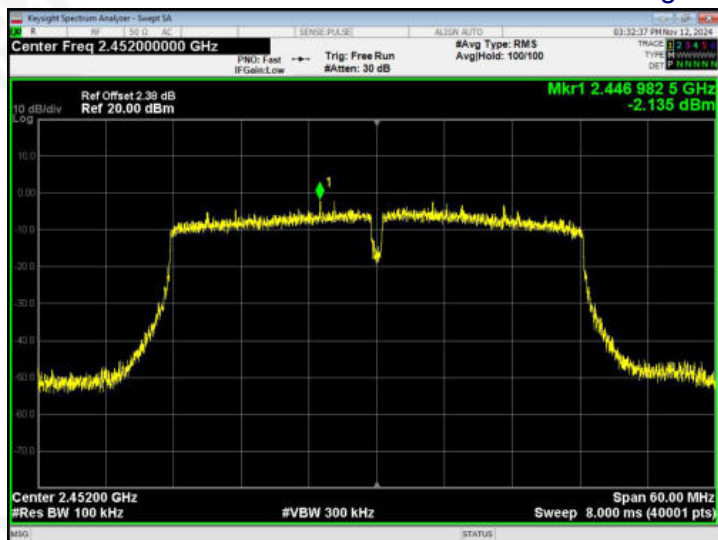
Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.



SISO ANT A - 802.11n40
Lowest channel



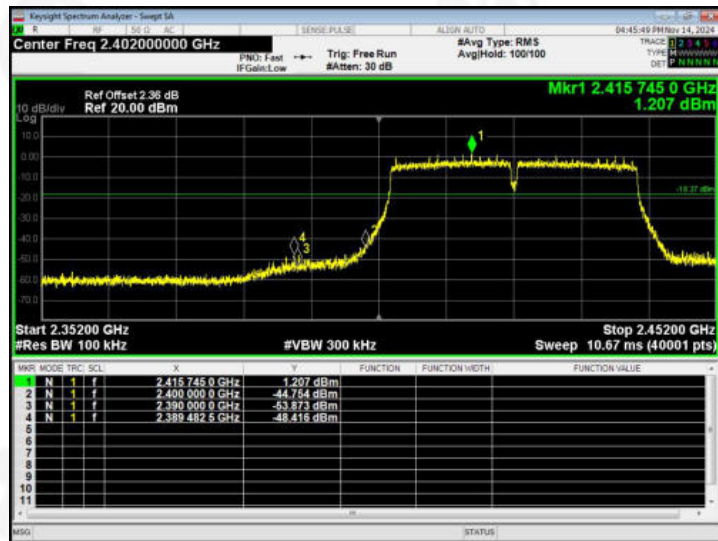
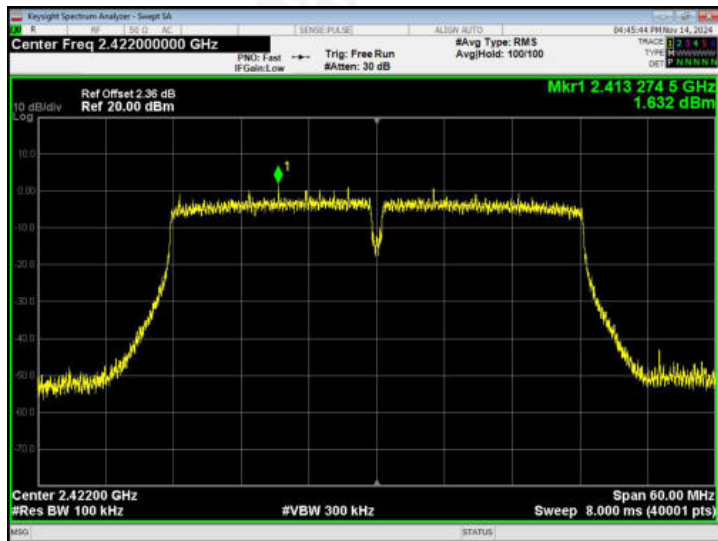
Highest channel



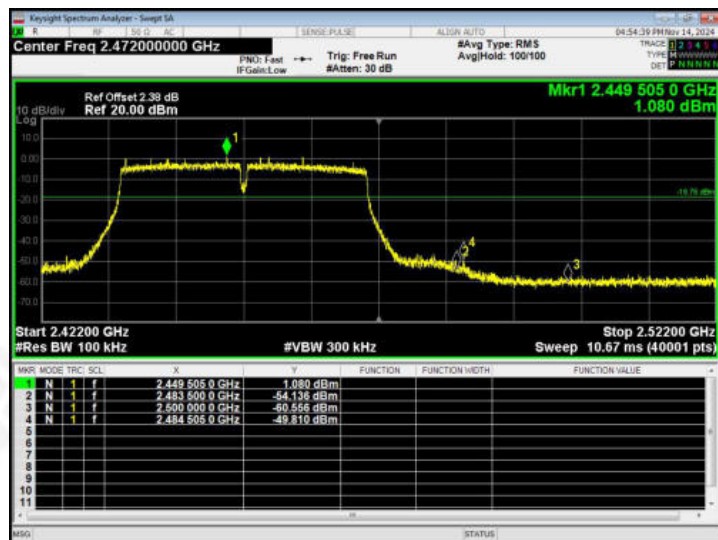
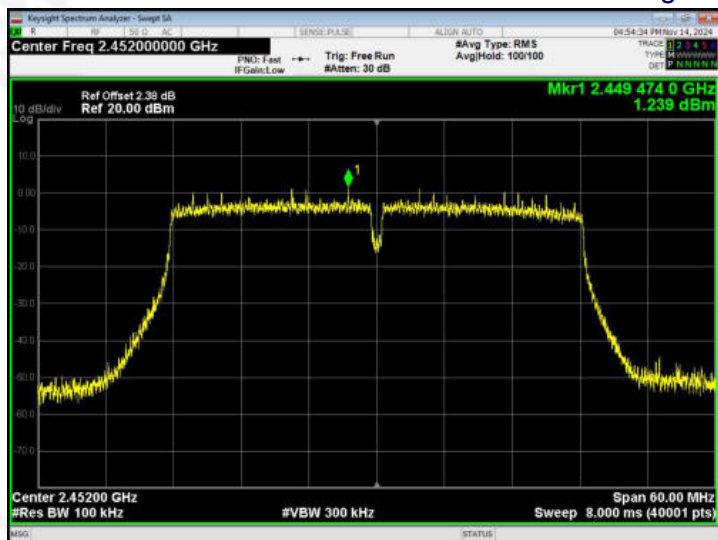
Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.



MIMO A - 802.11n40
Lowest channel



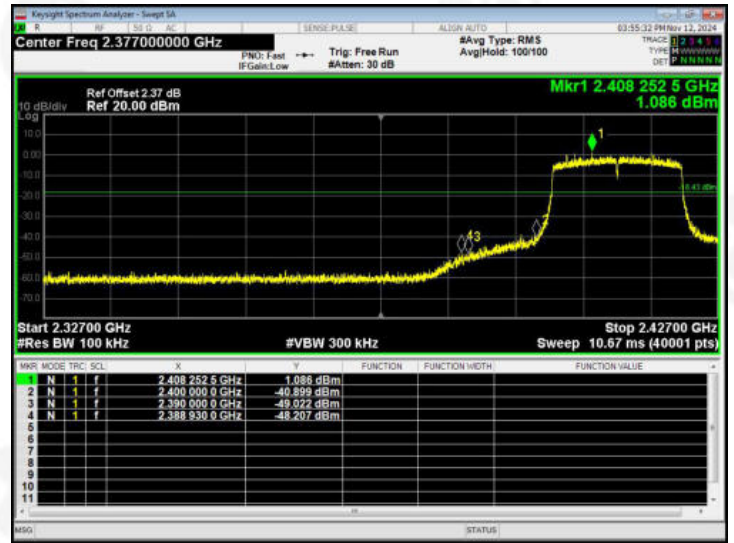
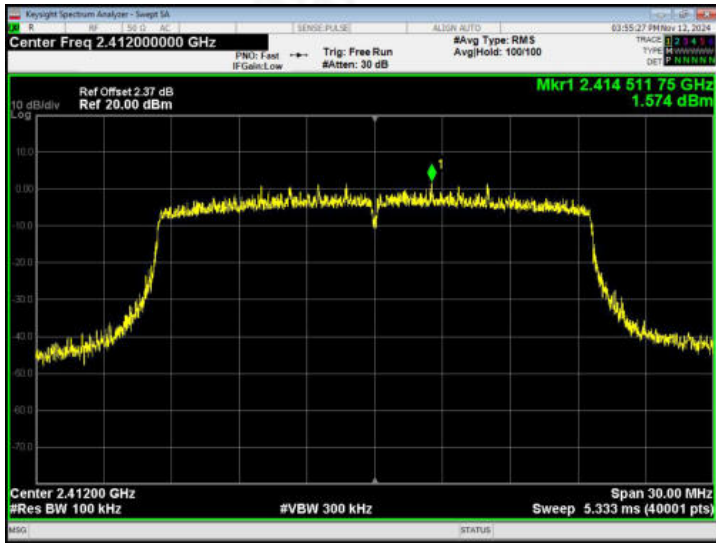
Highest channel



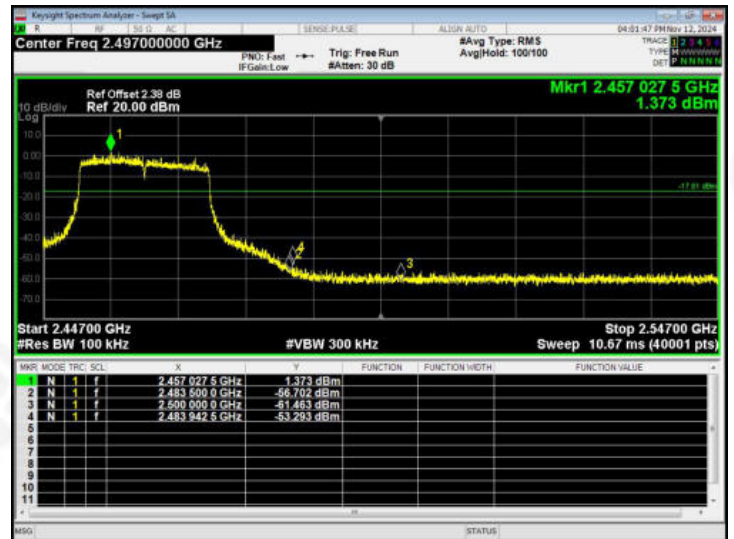
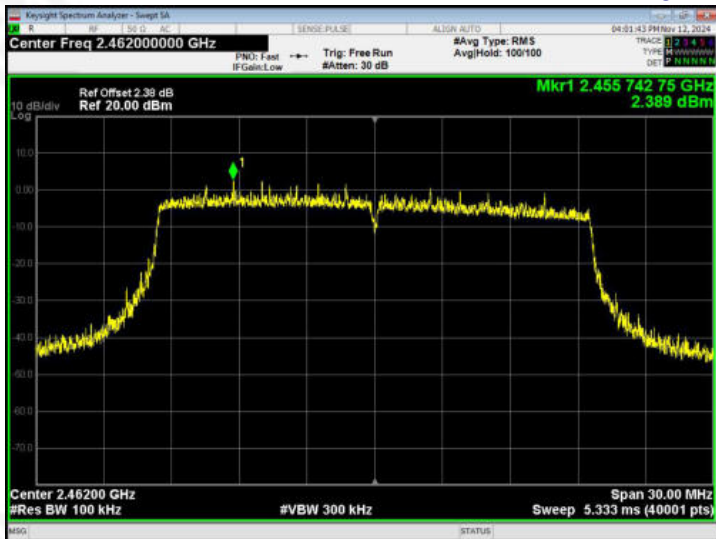
Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.



SISO ANT A - 802.11ax20
Lowest channel



Highest channel



Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.