



FCC TEST REPORT

FCC ID:2BDBT-K7

Applicant: **Dong Guan Jvin Electronic Co.,LTD**
Address: Room 701, No. 381 Daxing Road, Yangwu, Dalingshan, Dongguan, Guangdong province, China
Manufacturer: **Dong Guan Jvin Electronic Co.,LTD**
Address: Room 701, No. 381 Daxing Road, Yangwu, Dalingshan, Dongguan, Guangdong province, China
EUT: projector
Trade Mark: N/A
Model Number: K7
K6, K8, K9, K10, K11, K12, K13, K15, K16, K18, K22
Date of Receipt: Jul. 18, 2025
Test Date: Jul. 18, 2025 to Sep. 02, 2025
Date of Report: Sep. 02, 2025
Prepared By: Shenzhen DL Testing Technology Co., Ltd.
Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Applicable Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013
Test Result: Pass
Report Number: DLE-250902045R

Prepared by(Engineer): Ken Tan
Reviewer(Supervisor): Jack Bu
Approved(Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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Shenzhen DL Testing Technology Co., Ltd.

Report No.: DLE-250902045R

1. VERSION

ReportNo.	Version	Description	Approved
DLE-250902045R	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 DL Testing Technology Co., Ltd.

Add. : 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB identifier: CN0118

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ · where expended 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:	projector		
Model No.:	K7 K6, K8, K9, K10, K11, K12, K13, K15, K16, K18, K22		
Model Different.:	We (Dong Guan Jvin Electronic Co.,LTD) hereby state that all the models are electrical identical including the same software parameter and hardware design (i.e., circuit design, PCB Layout, RF module/circuit, antenna type(s) and antenna location, components on PCB, etc.), same mechanical structure and design (including product enclosure, materials, etc.), the only difference is the model name		
Serial No.:	N/A		
Sample ID	DLE-250902045R		
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
	2.88dBi	2.88dBi	5.89 dBi
	Working in SISO model, then the antenna gain as below: SISO ANT A: 2.88dBi SISO ANT B: 2.88dBi.		
	Working in MIMO model, then the antenna gain as below: Directional gain = $2.1\text{dBi} + 10 \cdot \log(1+1) \text{ dBi} = 5.89 \text{ dBi}$.		
Power supply:	Input: AC100-240V, 50/60Hz, 1A		
Battery capacity:	N/A		



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

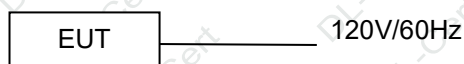


3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	projector	N/A	K7	N/A	EUT

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****Radiation test, Band-edge test and 6db bandwidth test equipment**

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
6	Amplifier (9kHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
9	Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Nov. 01, 2024	Oct. 31, 2025
2	EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
3	LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



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

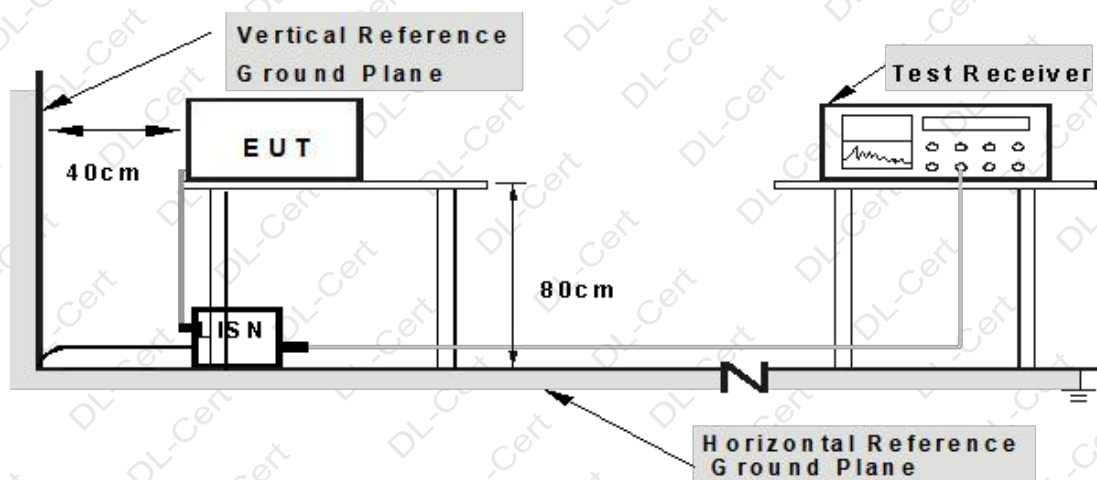
- The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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 from other units and other metal planes

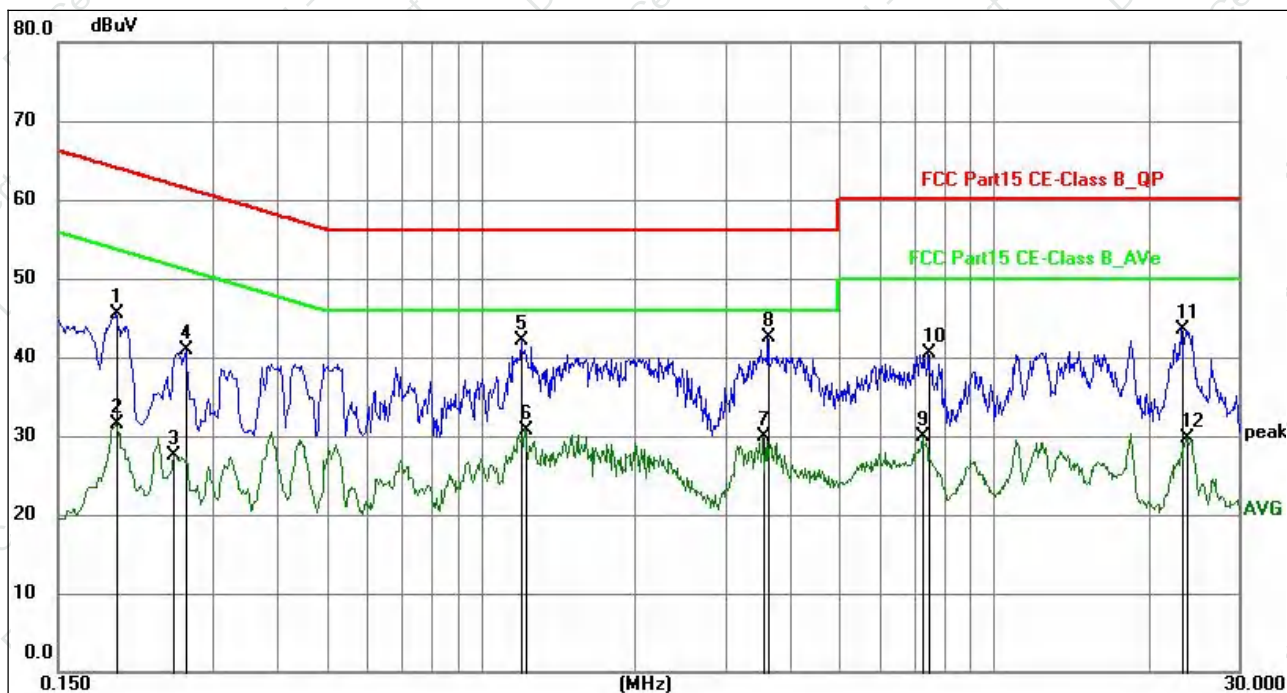
4.1.5 EUT OPERATING CONDITIONS

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



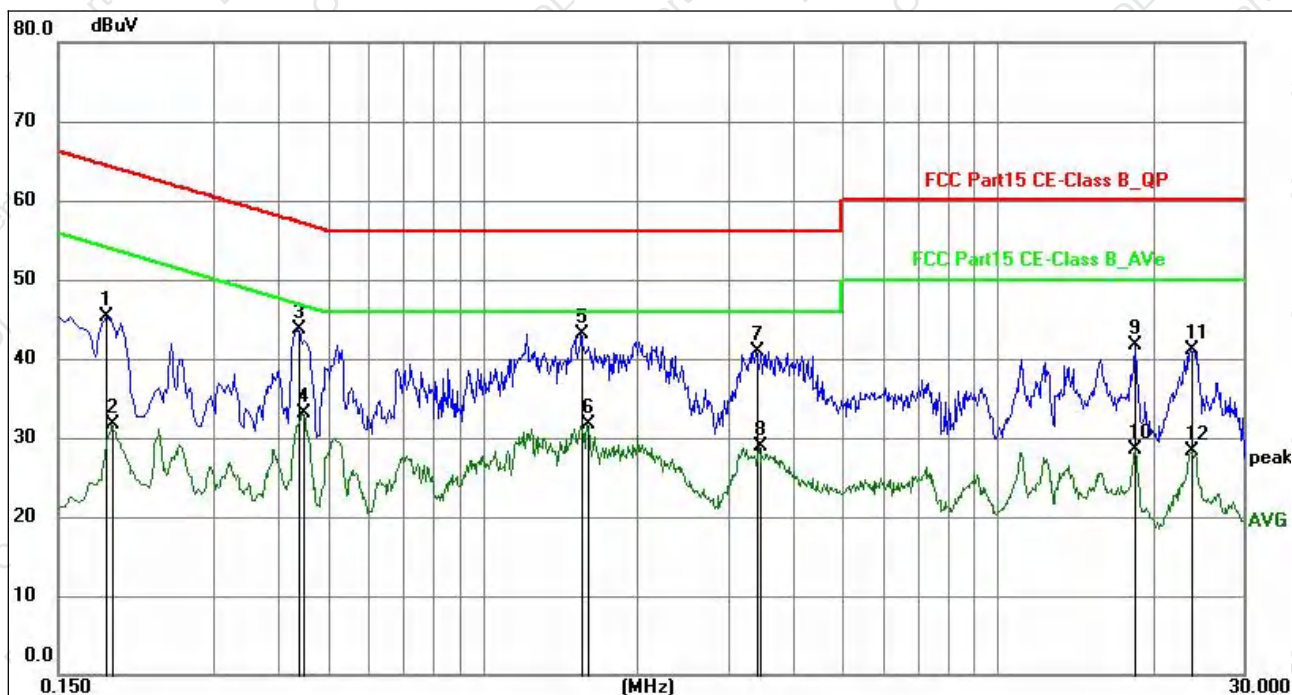
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1949	25.05	20.36	45.41	63.83	-18.42	QP	P	
2	0.1949	11.21	20.36	31.57	53.83	-22.26	AVG	P	
3	0.2519	7.14	20.36	27.50	51.69	-24.19	AVG	P	
4	0.2670	20.52	20.35	40.87	61.21	-20.34	QP	P	
5	1.1982	21.84	20.30	42.14	56.00	-13.86	QP	P	
6	1.2209	10.50	20.30	30.80	46.00	-15.20	AVG	P	
7	3.5565	9.50	20.34	29.84	46.00	-16.16	AVG	P	
8	3.6284	22.17	20.34	42.51	56.00	-13.49	QP	P	
9	7.2600	9.47	20.39	29.86	50.00	-20.14	AVG	P	
10	7.4489	20.02	20.39	40.41	60.00	-19.59	QP	P	
11	23.2303	22.95	20.59	43.54	60.00	-16.46	QP	P	
12	23.6758	9.18	20.60	29.78	50.00	-20.22	AVG	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.



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	0.1859	24.98	20.32	45.30	64.22	-18.92	QP	P	
2	0.1905	11.36	20.33	31.69	54.01	-22.32	AVG	P	
3	0.4380	23.37	20.31	43.68	57.10	-13.42	QP	P	
4	0.4470	12.81	20.31	33.12	46.93	-13.81	AVG	P	
5	1.5539	22.74	20.30	43.04	56.00	-12.96	QP	P	
6	1.5944	11.37	20.30	31.67	46.00	-14.33	AVG	P	
7	3.4035	20.56	20.33	40.89	56.00	-15.11	QP	P	
8	3.4529	8.49	20.33	28.82	46.00	-17.18	AVG	P	
9	18.4830	21.16	20.52	41.68	60.00	-18.32	QP	P	
10	18.4830	7.98	20.52	28.50	50.00	-21.50	AVG	P	
11	23.7480	20.43	20.63	41.06	60.00	-18.94	QP	P	
12	23.8603	7.75	20.63	28.38	50.00	-21.62	AVG	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= Lism 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 between above is the test site, change from Semi-Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

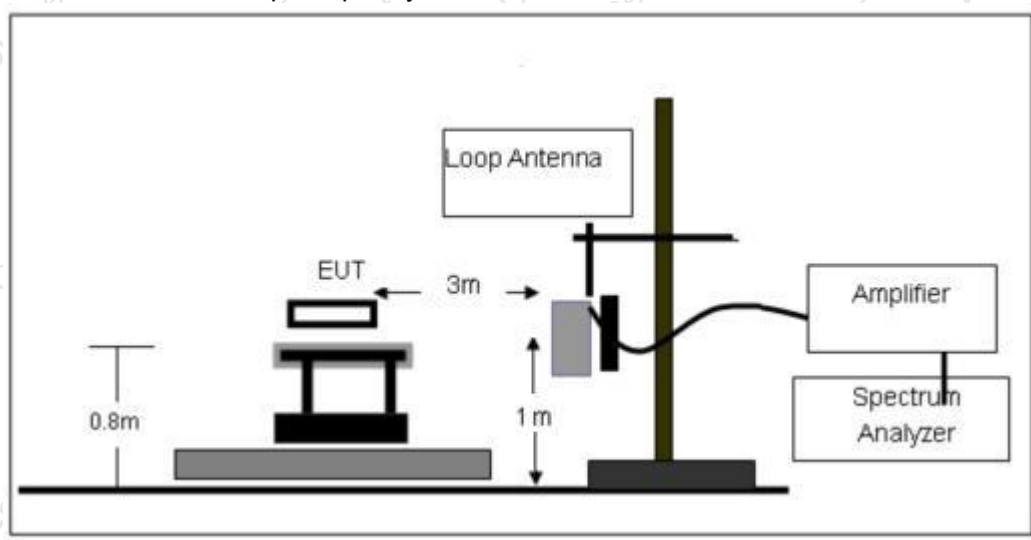
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

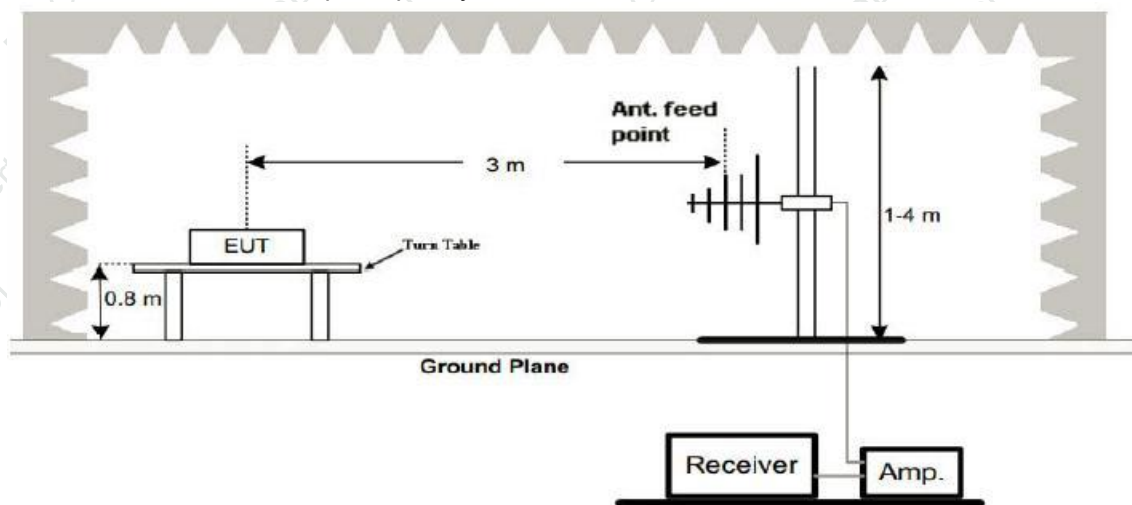
4.2.4 TEST SETUP

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

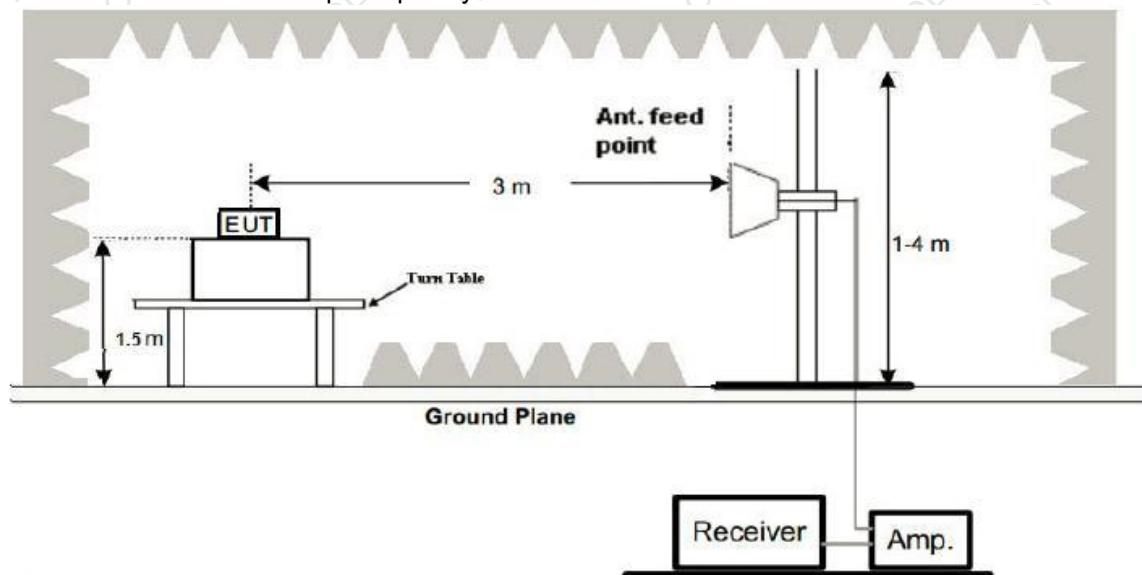




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(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

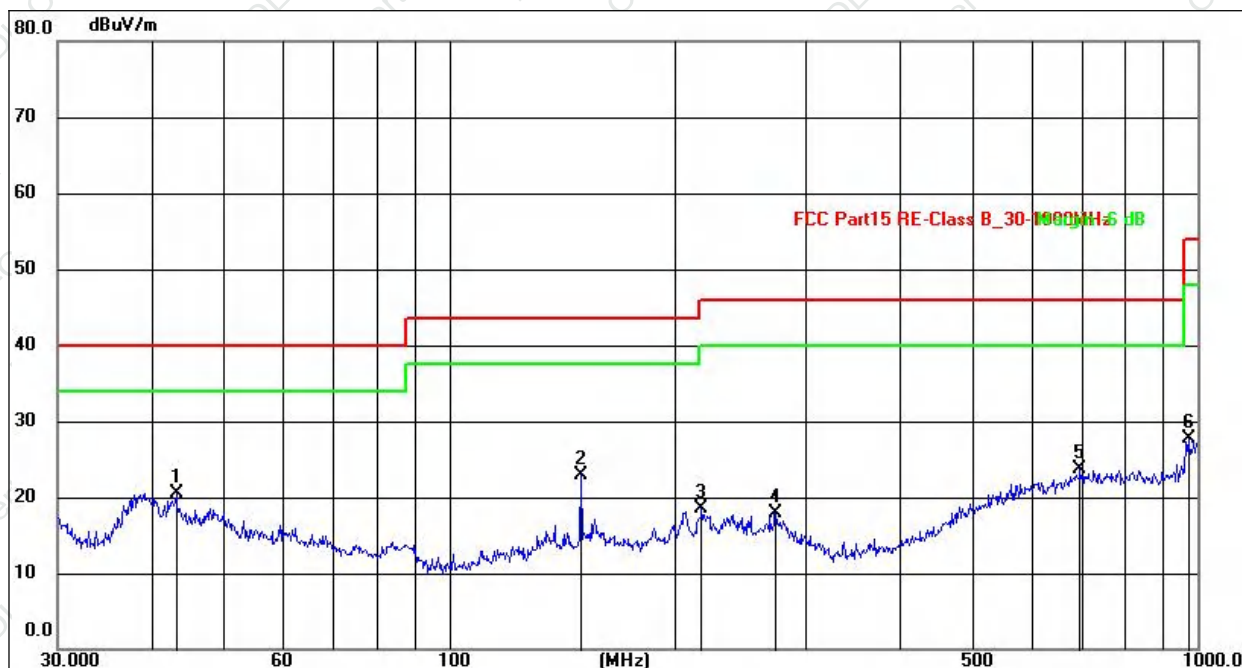
Between 9KHz – 30MHz

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:	AC 120V/60Hz	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	43.2014	34.58	-14.00	20.58	40.00	-19.42	QP
2	150.0107	39.18	-16.35	22.83	43.50	-20.67	QP
3	217.5440	36.07	-17.59	18.48	46.00	-27.52	QP
4	273.2339	32.32	-14.36	17.96	46.00	-28.04	QP
5	696.8567	30.20	-6.49	23.71	46.00	-22.29	QP
6	972.3373	32.82	-5.15	27.67	54.00	-26.33	QP

Remarks:

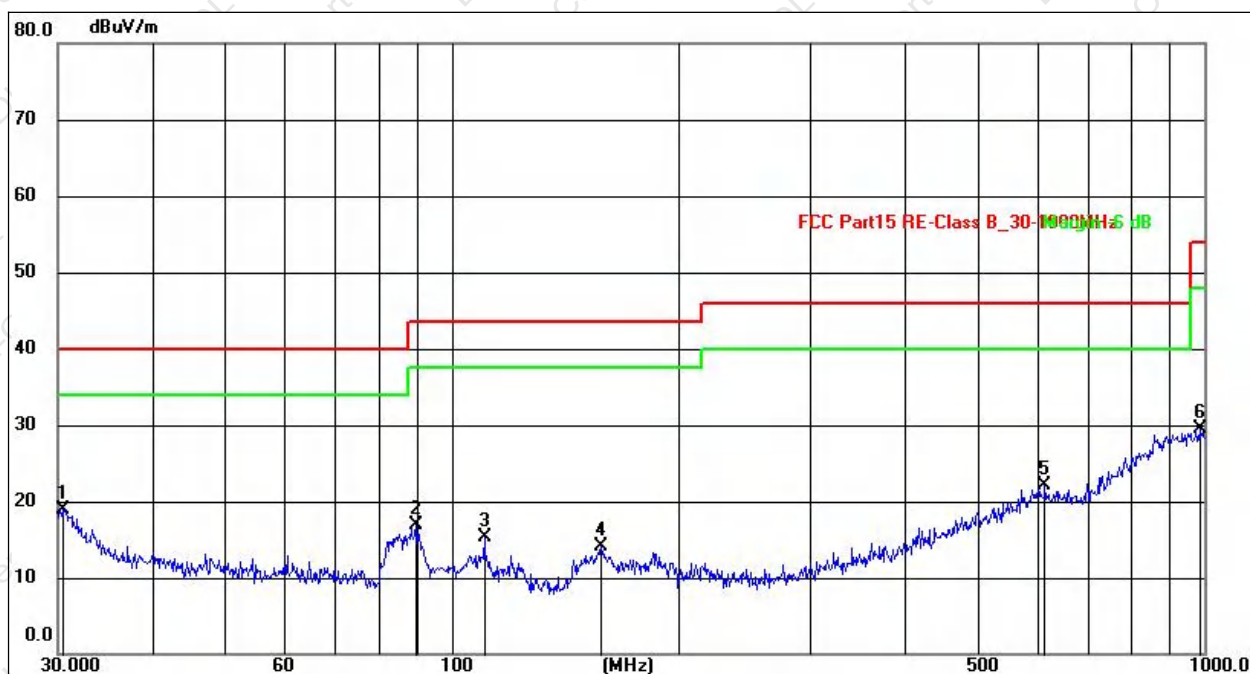
1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
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.



Shenzhen DL Testing Technology Co., Ltd.

Report No.: DLE-250902045R

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	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	30.4237	37.21	-18.27	18.94	40.00	-21.06	QP
2	89.5899	38.20	-21.39	16.81	43.50	-26.69	QP
3	110.5686	36.53	-21.16	15.37	43.50	-28.13	QP
4	158.1123	34.17	-20.04	14.13	43.50	-29.37	QP
5	614.2142	29.53	-7.34	22.19	46.00	-23.81	QP
6	986.0715	29.57	0.02	29.59	54.00	-24.41	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.



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	54.99	30.55	5.77	24.66	54.87	74.00	-19.13	PK
V	4824.00	43.01	30.55	5.77	24.66	42.89	54.00	-11.11	AV
V	7236.00	51.57	30.33	6.32	24.55	52.11	74.00	-21.89	PK
V	7236.00	43.86	30.33	6.32	24.55	44.40	54.00	-9.60	AV
V	9648.00	53.07	30.85	7.45	24.69	54.36	74.00	-19.64	PK
V	9648.00	43.25	30.85	7.45	24.69	44.54	54.00	-9.46	AV
V	12060.00	50.76	31.02	8.99	25.57	54.30	74.00	-19.70	PK
V	12060.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV
H	4824.00	54.05	30.55	5.77	24.66	53.93	74.00	-20.07	PK
H	4824.00	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
H	7236.00	51.51	30.33	6.32	24.55	52.05	74.00	-21.95	PK
H	7236.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
H	9648.00	53.72	30.85	7.45	24.69	55.01	74.00	-18.99	PK
H	9648.00	43.77	30.85	7.45	24.69	45.06	54.00	-8.94	AV
H	12060.00	53.67	31.02	8.99	25.57	57.21	74.00	-16.79	PK
H	12060.00	43.64	31.02	8.99	25.57	47.18	54.00	-6.82	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	53.49	30.55	5.77	24.66	53.37	74.00	-20.63	PK
V	4874.00	43.33	30.55	5.77	24.66	43.21	54.00	-10.79	AV
V	7311.00	53.88	30.33	6.32	24.55	54.42	74.00	-19.58	PK
V	7311.00	43.24	30.33	6.32	24.55	43.78	54.00	-10.22	AV
V	9748.00	53.03	30.85	7.45	24.69	54.32	74.00	-19.68	PK
V	9748.00	43.65	30.85	7.45	24.69	44.94	54.00	-9.06	AV
V	12185.00	50.73	31.02	8.99	25.57	54.27	74.00	-19.73	PK
V	12185.00	43.28	31.02	8.99	25.57	46.82	54.00	-7.18	AV
H	4874.00	53.36	30.55	5.77	24.66	53.24	74.00	-20.76	PK
H	4874.00	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
H	7311.00	50.99	30.33	6.32	24.55	51.53	74.00	-22.47	PK
H	7311.00	43.66	30.33	6.32	24.55	44.20	54.00	-9.80	AV
H	9748.00	51.67	30.85	7.45	24.69	52.96	74.00	-21.04	PK
H	9748.00	43.19	30.85	7.45	24.69	44.48	54.00	-9.52	AV
H	12185.00	51.27	31.02	8.99	25.57	54.81	74.00	-19.19	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-ampli fier	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	54.81	30.55	5.77	24.66	54.69	74.00	-19.31	PK
V	4924.00	43.70	30.55	5.77	24.66	43.58	54.00	-10.42	AV
V	7386.00	51.99	30.33	6.32	24.55	52.53	74.00	-21.47	PK
V	7386.00	43.22	30.33	6.32	24.55	43.76	54.00	-10.24	AV
V	9848.00	53.00	30.85	7.45	24.69	54.29	74.00	-19.71	PK
V	9848.00	43.37	30.85	7.45	24.69	44.66	54.00	-9.34	AV
V	12310.00	51.77	31.02	8.99	25.57	55.31	74.00	-18.69	PK
V	12310.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV
H	4924.00	52.44	30.55	5.77	24.66	52.32	74.00	-21.68	PK
H	4924.00	43.27	30.55	5.77	24.66	43.15	54.00	-10.85	AV
H	7386.00	51.49	30.33	6.32	24.55	52.03	74.00	-21.97	PK
H	7386.00	43.46	30.33	6.32	24.55	44.00	54.00	-10.00	AV
H	9848.00	53.58	30.85	7.45	24.69	54.87	74.00	-19.13	PK
H	9848.00	43.76	30.85	7.45	24.69	45.05	54.00	-8.95	AV
H	12310.00	50.17	31.02	8.99	25.57	53.71	74.00	-20.29	PK
H	12310.00	43.49	31.02	8.99	25.57	47.03	54.00	-6.97	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	52.29	30.55	5.77	24.66	52.17	74.00	-21.83	PK
V	4824.00	43.71	30.55	5.77	24.66	43.59	54.00	-10.41	AV
V	7236.00	53.59	30.33	6.32	24.55	54.13	74.00	-19.87	PK
V	7236.00	43.81	30.33	6.32	24.55	44.35	54.00	-9.65	AV
V	9648.00	50.17	30.85	7.45	24.69	51.46	74.00	-22.54	PK
V	9648.00	43.78	30.85	7.45	24.69	45.07	54.00	-8.93	AV
V	12060.00	50.98	31.02	8.99	25.57	54.52	74.00	-19.48	PK
V	12060.00	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	AV
H	4824.00	51.01	30.55	5.77	24.66	50.89	74.00	-23.11	PK
H	4824.00	43.39	30.55	5.77	24.66	43.27	54.00	-10.73	AV
H	7236.00	54.70	30.33	6.32	24.55	55.24	74.00	-18.76	PK
H	7236.00	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV
H	9648.00	54.80	30.85	7.45	24.69	56.09	74.00	-17.91	PK
H	9648.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
H	12060.00	51.72	31.02	8.99	25.57	55.26	74.00	-18.74	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	54.15	30.55	5.77	24.66	54.03	74.00	-19.97	PK
V	4874.00	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
V	7311.00	51.76	30.33	6.32	24.55	52.30	74.00	-21.70	PK
V	7311.00	43.03	30.33	6.32	24.55	43.57	54.00	-10.43	AV
V	9748.00	50.42	30.85	7.45	24.69	51.71	74.00	-22.29	PK
V	9748.00	43.28	30.85	7.45	24.69	44.57	54.00	-9.43	AV
V	12185.00	52.31	31.02	8.99	25.57	55.85	74.00	-18.15	PK
V	12185.00	43.99	31.02	8.99	25.57	47.53	54.00	-6.47	AV
H	4874.00	51.69	30.55	5.77	24.66	51.57	74.00	-22.43	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	43.59	30.33	6.32	24.55	44.13	54.00	-9.87	AV
H	9748.00	51.90	30.85	7.45	24.69	53.19	74.00	-20.81	PK
H	9748.00	43.10	30.85	7.45	24.69	44.39	54.00	-9.61	AV
H	12185.00	51.51	31.02	8.99	25.57	55.05	74.00	-18.95	PK
H	12185.00	43.94	31.02	8.99	25.57	47.48	54.00	-6.52	AV



Polar (H/V)	Frequency	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)	
High Channel:2462MHz									
V	4924.00	51.12	30.55	5.77	24.66	51.00	74.00	-23.00	PK
V	4924.00	43.11	30.55	5.77	24.66	42.99	54.00	-11.01	AV
V	7386.00	52.53	30.33	6.32	24.55	53.07	74.00	-20.93	PK
V	7386.00	43.74	30.33	6.32	24.55	44.28	54.00	-9.72	AV
V	9848.00	51.06	30.85	7.45	24.69	52.35	74.00	-21.65	PK
V	9848.00	43.34	30.85	7.45	24.69	44.63	54.00	-9.37	AV
V	12310.00	54.77	31.02	8.99	25.57	58.31	74.00	-15.69	PK
V	12310.00	43.46	31.02	8.99	25.57	47.00	54.00	-7.00	AV
H	4924.00	50.38	30.55	5.77	24.66	50.26	74.00	-23.74	PK
H	4924.00	43.52	30.55	5.77	24.66	43.40	54.00	-10.60	AV
H	7386.00	54.28	30.33	6.32	24.55	54.82	74.00	-19.18	PK
H	7386.00	43.70	30.33	6.32	24.55	44.24	54.00	-9.76	AV
H	9848.00	54.56	30.85	7.45	24.69	55.85	74.00	-18.15	PK
H	9848.00	43.76	30.85	7.45	24.69	45.05	54.00	-8.95	AV
H	12310.00	53.93	31.02	8.99	25.57	57.47	74.00	-16.53	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 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	54.92	30.55	5.77	24.66	54.80	74.00	-19.20	PK
V	4824.00	43.11	30.55	5.77	24.66	42.99	54.00	-11.01	AV
V	7236.00	54.26	30.33	6.32	24.55	54.80	74.00	-19.20	PK
V	7236.00	43.12	30.33	6.32	24.55	43.66	54.00	-10.34	AV
V	9648.00	51.09	30.85	7.45	24.69	52.38	74.00	-21.62	PK
V	9648.00	43.25	30.85	7.45	24.69	44.54	54.00	-9.46	AV
V	12060.00	52.95	31.02	8.99	25.57	56.49	74.00	-17.51	PK
V	12060.00	43.53	31.02	8.99	25.57	47.07	54.00	-6.93	AV
H	4824.00	52.89	30.55	5.77	24.66	52.77	74.00	-21.23	PK
H	4824.00	43.92	30.55	5.77	24.66	43.80	54.00	-10.20	AV
H	7236.00	54.51	30.33	6.32	24.55	55.05	74.00	-18.95	PK
H	7236.00	43.52	30.33	6.32	24.55	44.06	54.00	-9.94	AV
H	9648.00	54.21	30.85	7.45	24.69	55.50	74.00	-18.50	PK
H	9648.00	43.58	30.85	7.45	24.69	44.87	54.00	-9.13	AV
H	12060.00	54.03	31.02	8.99	25.57	57.57	74.00	-16.43	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-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	54.02	30.55	5.77	24.66	53.90	74.00	-20.10	PK
V	4874.00	43.88	30.55	5.77	24.66	43.76	54.00	-10.24	AV
V	7311.00	54.70	30.33	6.32	24.55	55.24	74.00	-18.76	PK
V	7311.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
V	9748.00	54.05	30.85	7.45	24.69	55.34	74.00	-18.66	PK
V	9748.00	43.65	30.85	7.45	24.69	44.94	54.00	-9.06	AV
V	12185.00	50.79	31.02	8.99	25.57	54.33	74.00	-19.67	PK
V	12185.00	43.99	31.02	8.99	25.57	47.53	54.00	-6.47	AV
H	4874.00	51.38	30.55	5.77	24.66	51.26	74.00	-22.74	PK
H	4874.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
H	7311.00	52.37	30.33	6.32	24.55	52.91	74.00	-21.09	PK
H	7311.00	43.04	30.33	6.32	24.55	43.58	54.00	-10.42	AV
H	9748.00	52.47	30.85	7.45	24.69	53.76	74.00	-20.24	PK
H	9748.00	43.75	30.85	7.45	24.69	45.04	54.00	-8.96	AV
H	12185.00	51.41	31.02	8.99	25.57	54.95	74.00	-19.05	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
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Shenzhen DL Testing Technology Co., Ltd.

Report No.: DLE-250902045R

	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
High Channel:2462MHz									
V	4924.00	52.86	30.55	5.77	24.66	52.74	74.00	-21.26	PK
V	4924.00	43.15	30.55	5.77	24.66	43.03	54.00	-10.97	AV
V	7386.00	51.78	30.33	6.32	24.55	52.32	74.00	-21.68	PK
V	7386.00	43.27	30.33	6.32	24.55	43.81	54.00	-10.19	AV
V	9848.00	51.77	30.85	7.45	24.69	53.06	74.00	-20.94	PK
V	9848.00	43.69	30.85	7.45	24.69	44.98	54.00	-9.02	AV
V	12310.00	51.06	31.02	8.99	25.57	54.60	74.00	-19.40	PK
V	12310.00	43.30	31.02	8.99	25.57	46.84	54.00	-7.16	AV
H	4924.00	51.24	30.55	5.77	24.66	51.12	74.00	-22.88	PK
H	4924.00	43.56	30.55	5.77	24.66	43.44	54.00	-10.56	AV
H	7386.00	54.80	30.33	6.32	24.55	55.34	74.00	-18.66	PK
H	7386.00	43.22	30.33	6.32	24.55	43.76	54.00	-10.24	AV
H	9848.00	52.93	30.85	7.45	24.69	54.22	74.00	-19.78	PK
H	9848.00	43.51	30.85	7.45	24.69	44.80	54.00	-9.20	AV
H	12310.00	53.90	31.02	8.99	25.57	57.44	74.00	-16.56	PK
H	12310.00	43.52	31.02	8.99	25.57	47.06	54.00	-6.94	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 (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
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 (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
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)	Frequenc y (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
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)	Frequenc y (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
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:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 reported in a data sheet.
- 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

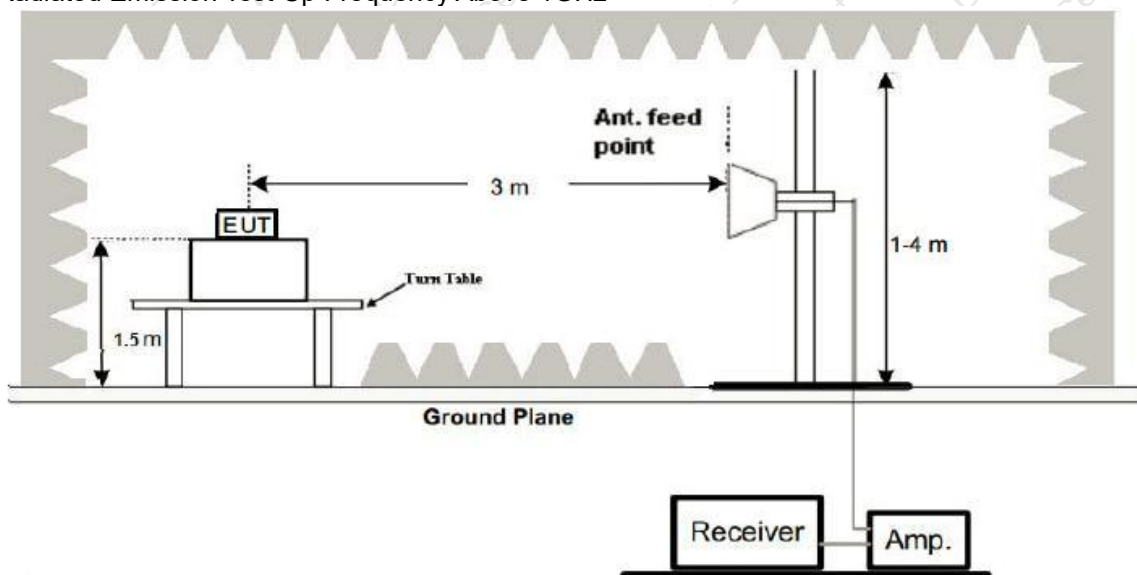
5.3 DEVIATION FROM TEST STANDARD

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 (dBu V/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 (dBuV/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
	V	2500.00	53.06	30.22	4.85	23.98	51.67	74.00	-22.33	PK	PASS
	V	2500.00	44.20	30.22	4.85	23.98	42.81	54.00	-11.19	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
	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
MIMO A+B 802.11ax40	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



Shenzhen DL Testing Technology Co., Ltd.

Report No.: DLE-250902045R

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz

Test Mode	Antenna	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	SISO ANT A	2412	-8.879	8	PASS
		2437	-9.188		
		2462	-7.19		
	SISO ANT B	2412	-6.604	8	PASS
		2437	-7.902		
		2462	-6.421		
802.11g	SISO ANT A	2412	-12.537	8	PASS
		2437	-12.336		
		2462	-11.335		
	SISO ANT B	2412	-11.086	8	PASS
		2437	-10.74		
		2462	-11.29		
802.11n20	SISO ANT A	2412	-10.462	8	PASS
		2437	-12.035		
		2462	-11.776		
	SISO ANT B	2412	-10.229	8	PASS
		2437	-9.693		
		2462	-10.7		
	MIMO A+B	2412	-7.334	8	PASS
		2437	-7.698		
		2462	-8.194		

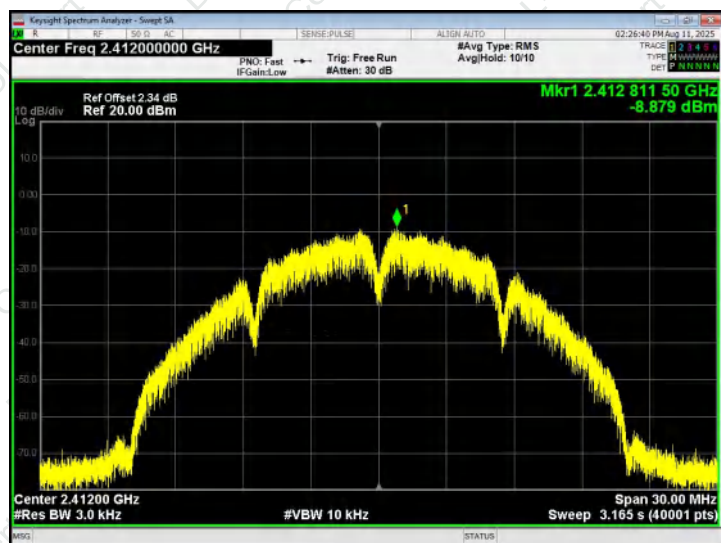


802.11n40	SISO ANT A	2422	-14.012	8	PASS
		2437	-13.613		
		2452	-14.658		
	SISO ANT B	2422	-14.186	8	PASS
		2437	-13.6		
		2452	-13.979		
	MIMO A+B	2422	-11.088	8	PASS
		2437	-10.596		
		2452	-11.295		
802.11ax20	SISO ANT A	2412	-10.791	8	PASS
		2437	-12.429		
		2462	-12.441		
	SISO ANT B	2412	-10.268	8	PASS
		2437	-11.463		
		2462	-9.623		
	MIMO A+B	2412	-7.511	8	PASS
		2437	-8.909		
		2462	-7.797		
802.11ax40	SISO ANT A	2422	-14.483	8	PASS
		2437	-15.023		
		2452	-14.584		
	SISO ANT B	2422	-11.941	8	PASS
		2437	-14.126		
		2452	-14.035		
	MIMO A+B	2422	-10.018	8	PASS
		2437	-11.541		
		2452	-11.291		



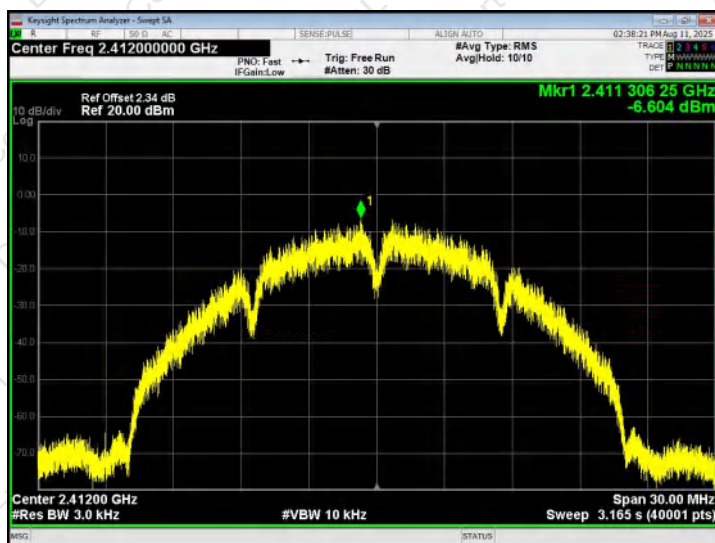
SISO ANT A - 802.11b

CH01

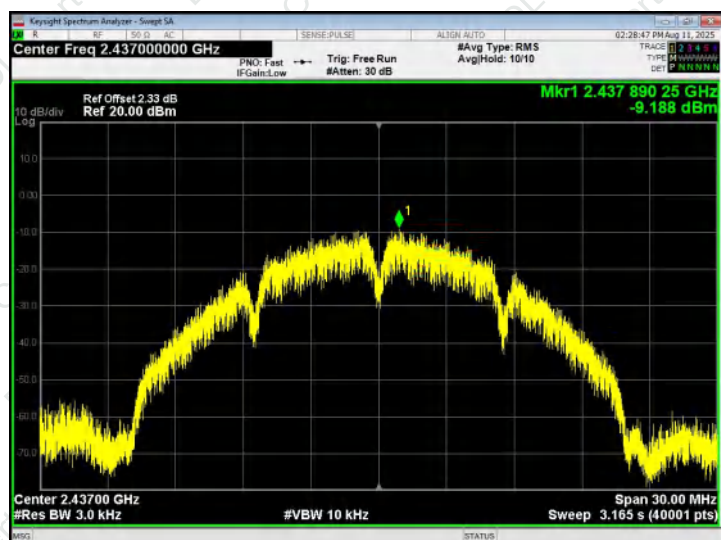


SISO ANT B - 802.11b

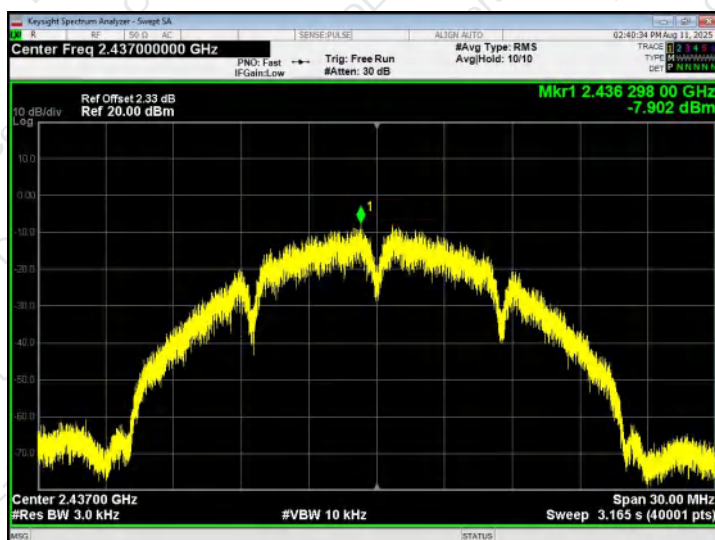
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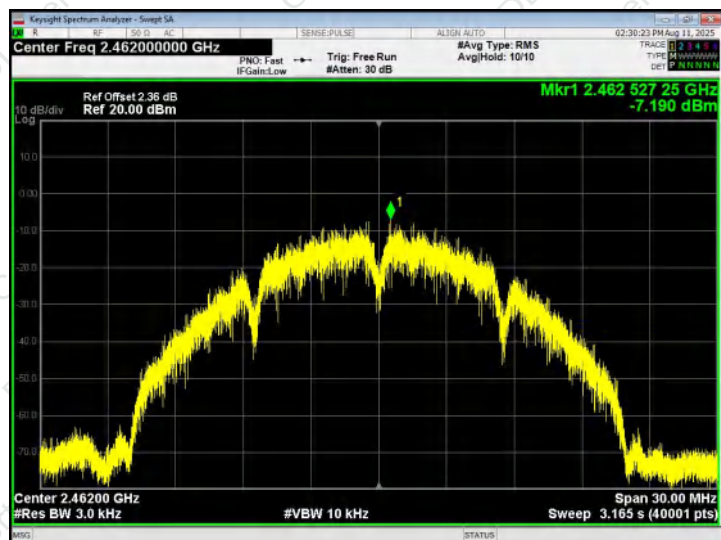
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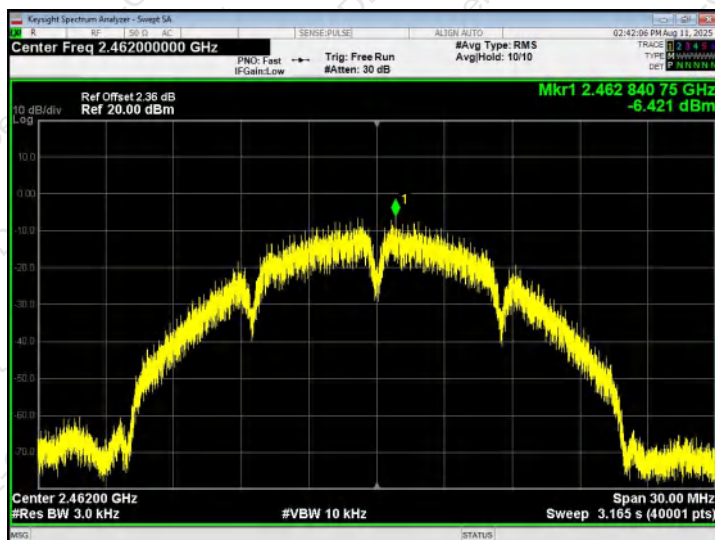
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CH11



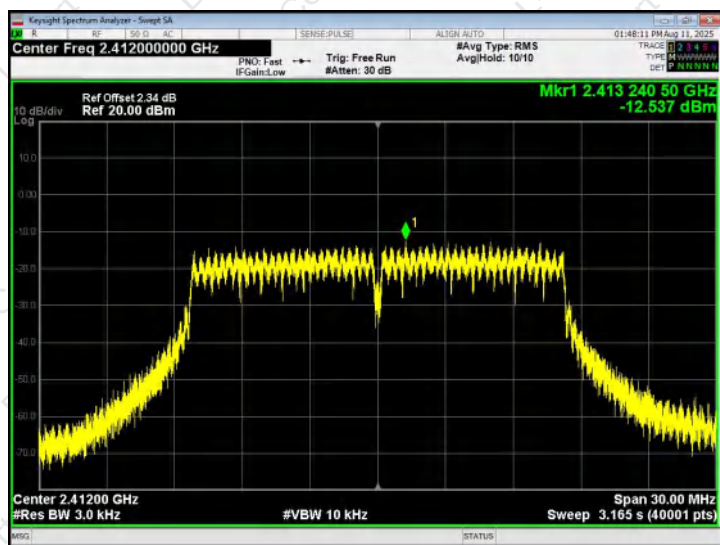
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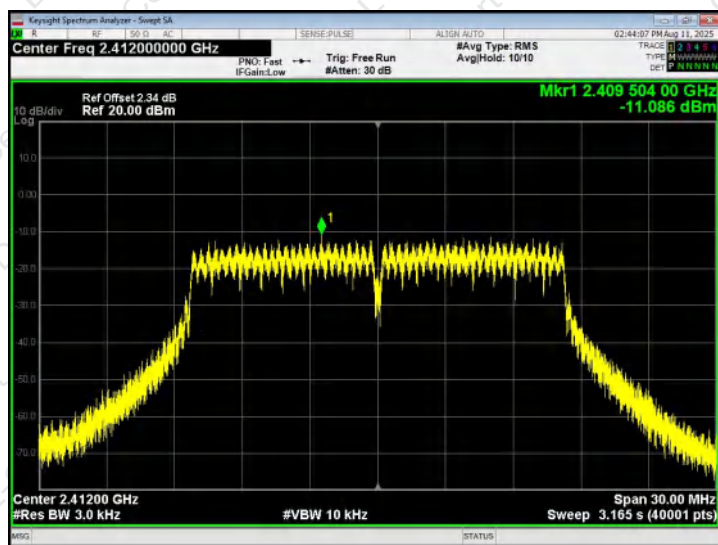
SISO ANT A - 802.11g

CH01

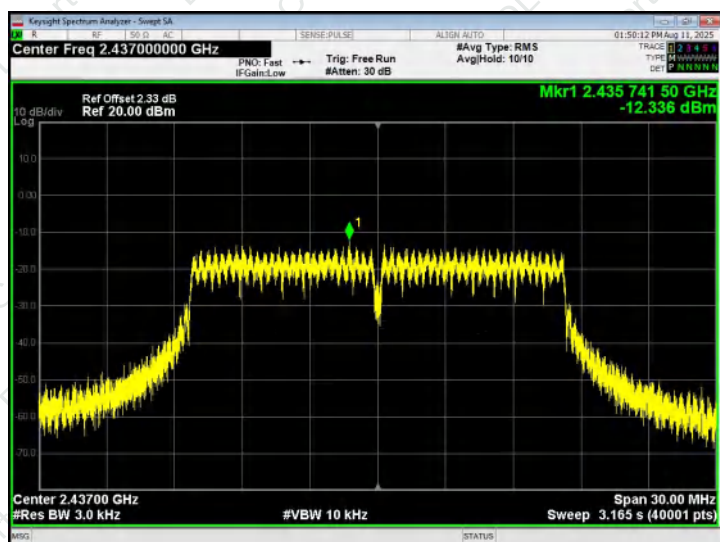


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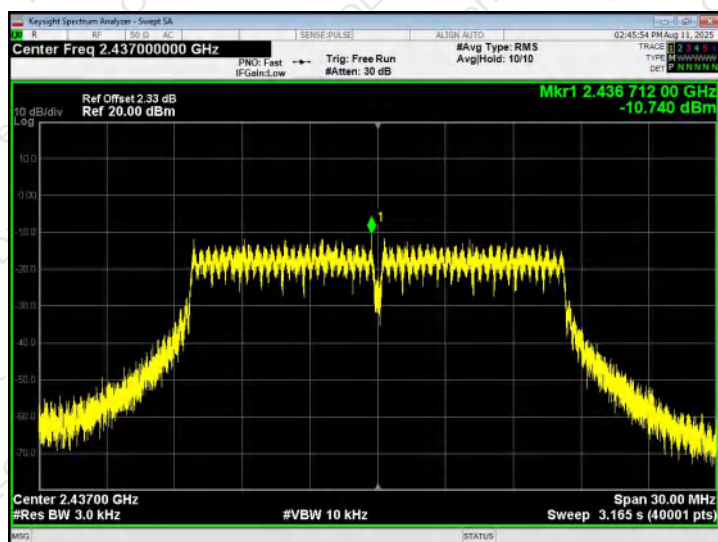
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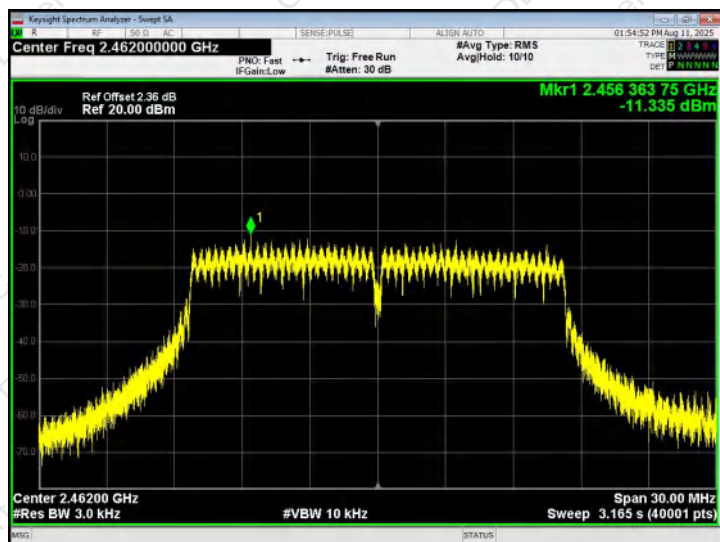
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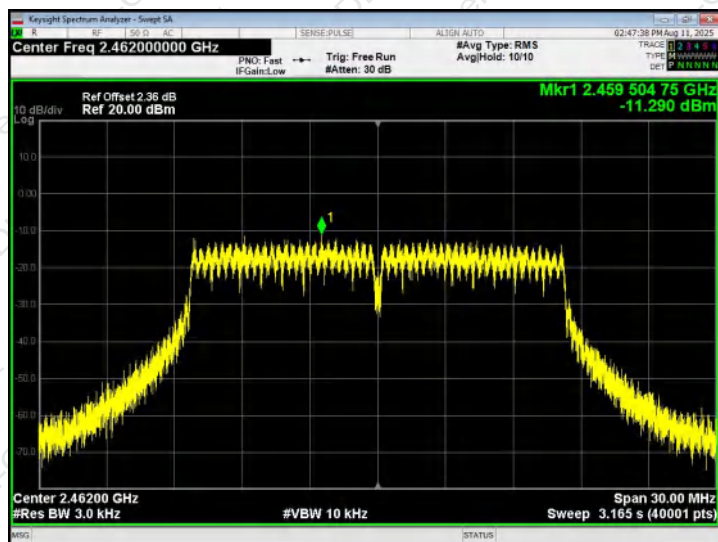
CH06



CH11



CH11



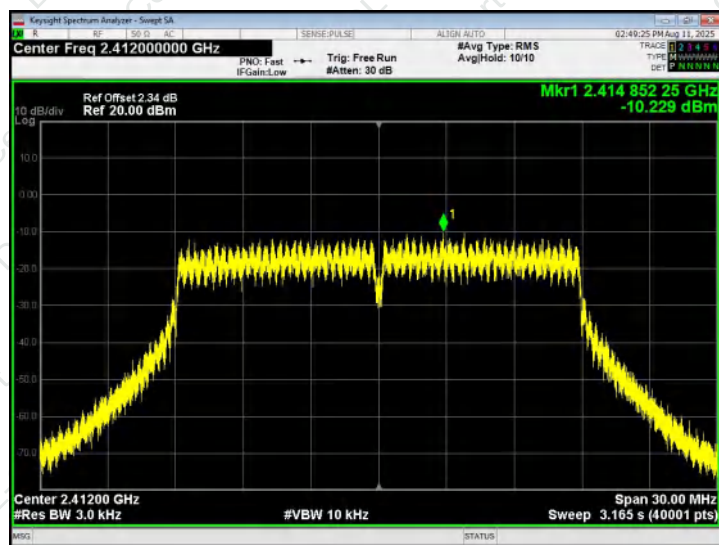
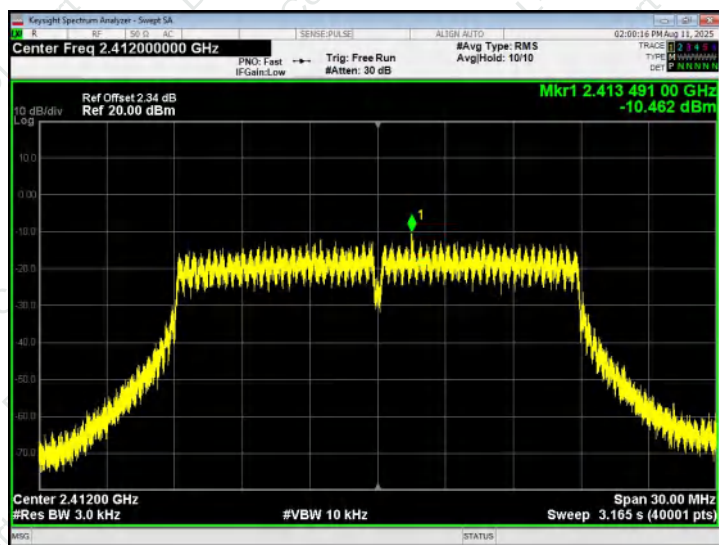


SISO ANT A - 802.11n20

SISO ANT B - 802.11n20

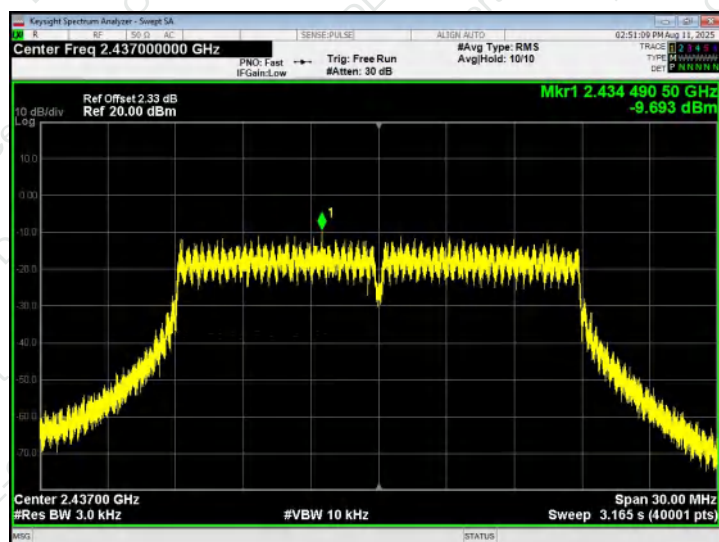
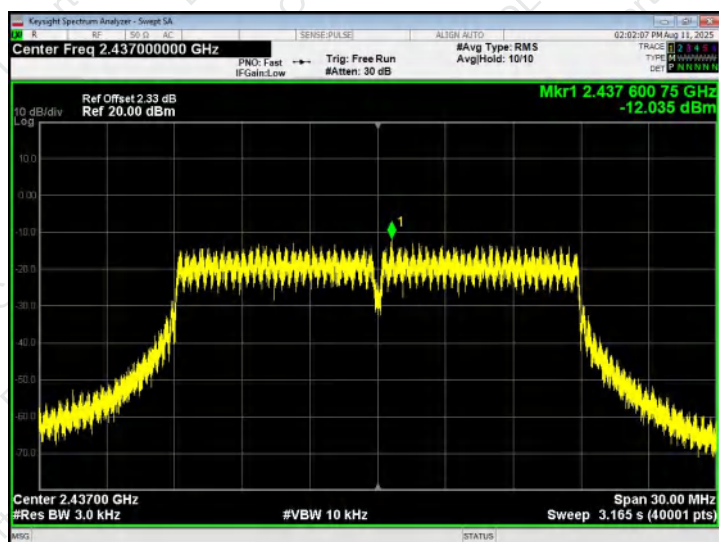
CH01

CH01



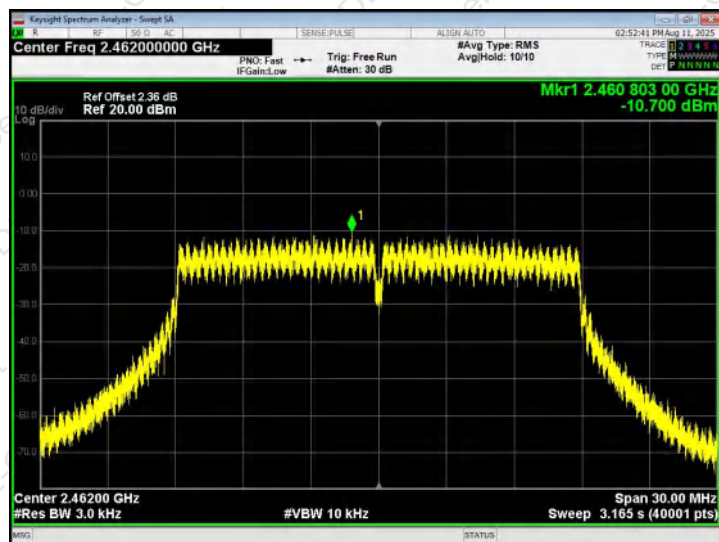
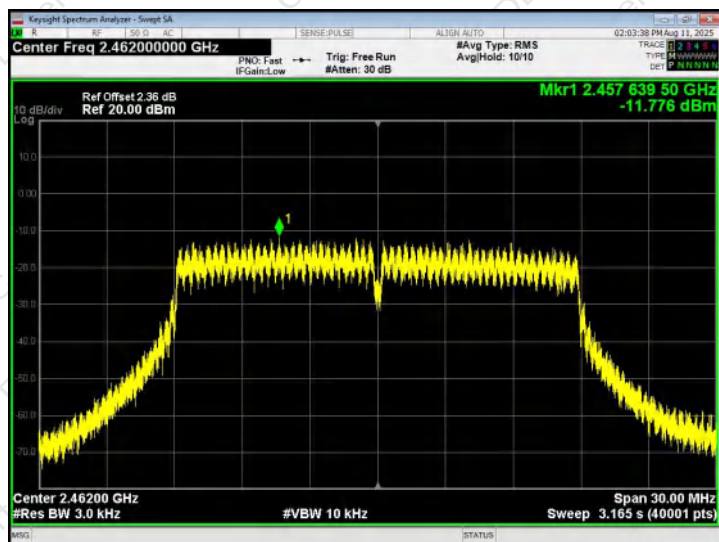
CH06

CH06



CH11

CH11



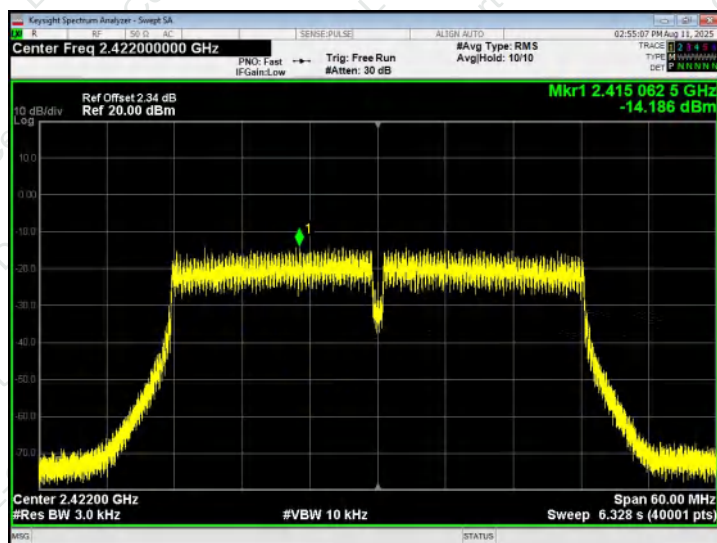
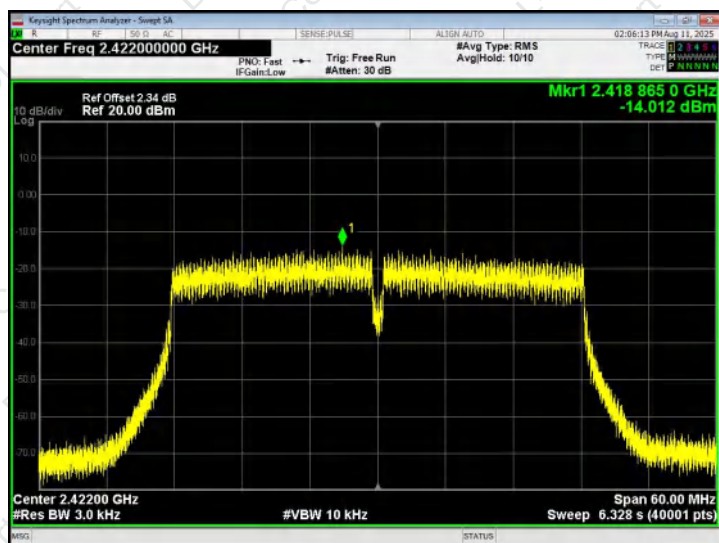


SISO ANT A - 802.11n40

SISO ANT A - 802.11n40

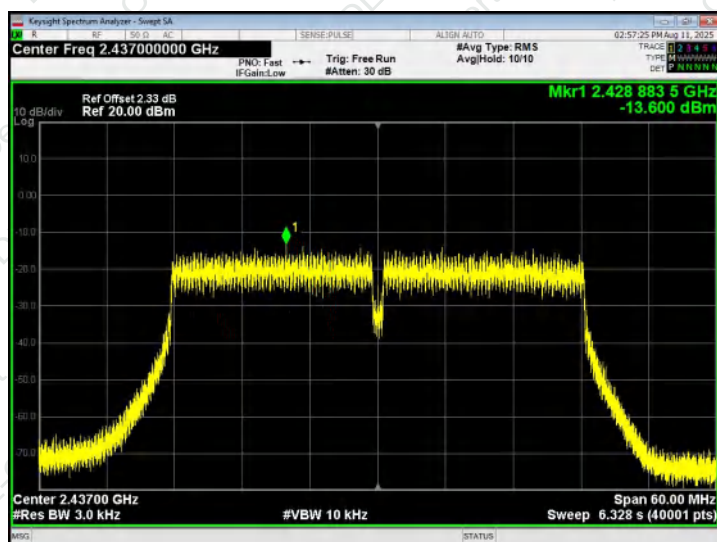
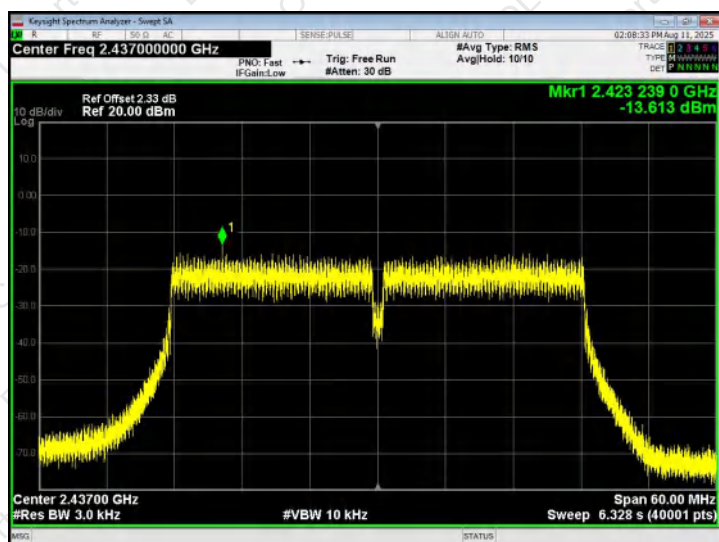
CH03

CH03



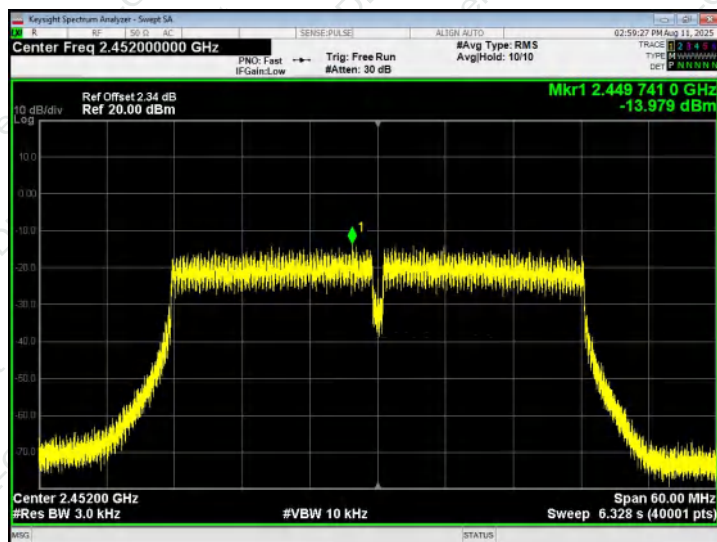
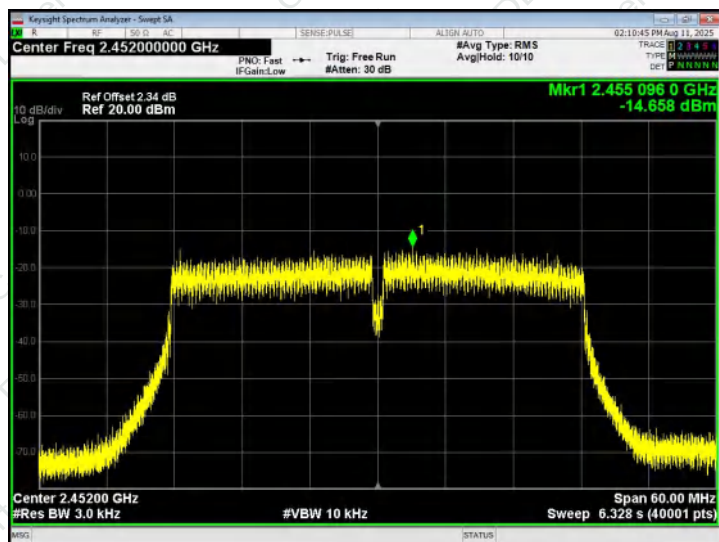
CH06

CH06



CH09

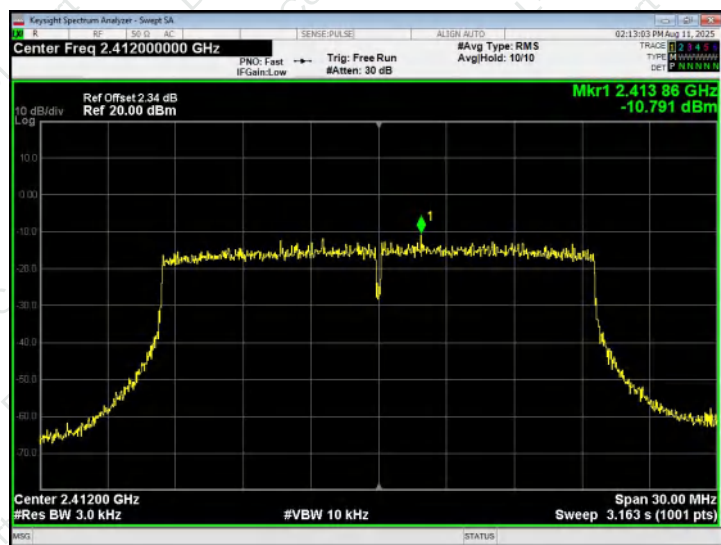
CH09





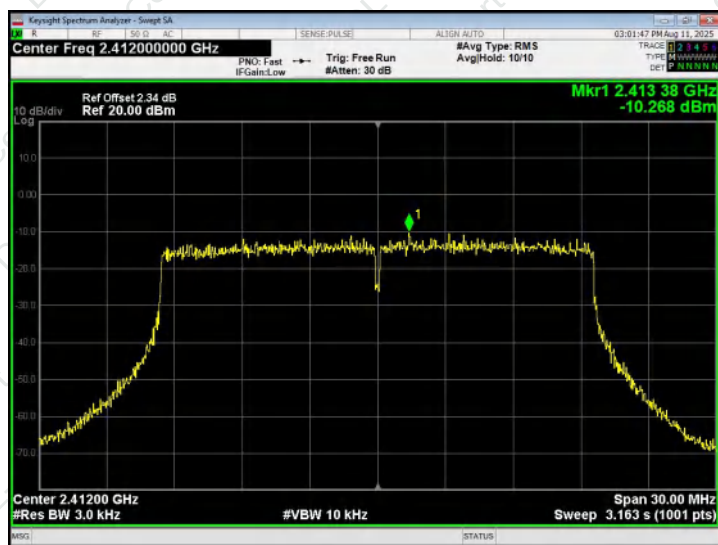
SISO ANT A - 802.11ax20

CH01

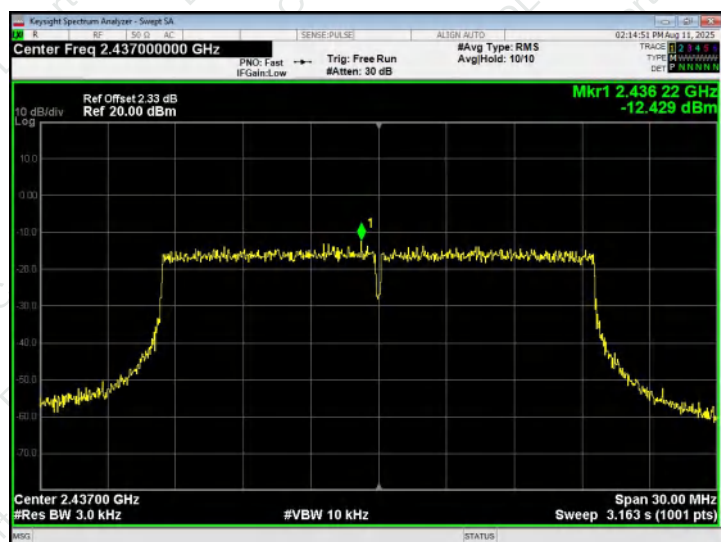


SISO ANT B - 802.11ax20

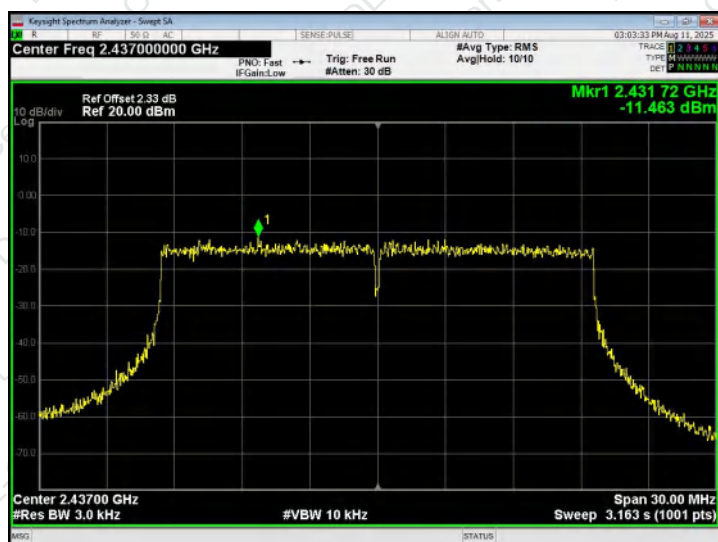
CH01



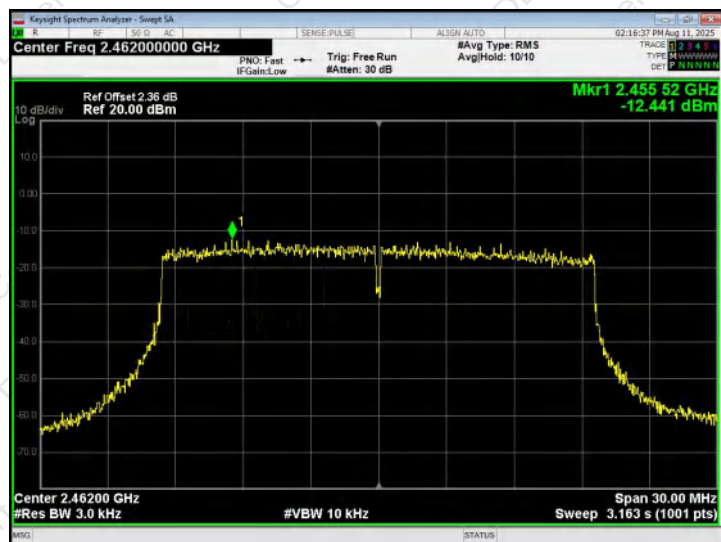
CH06



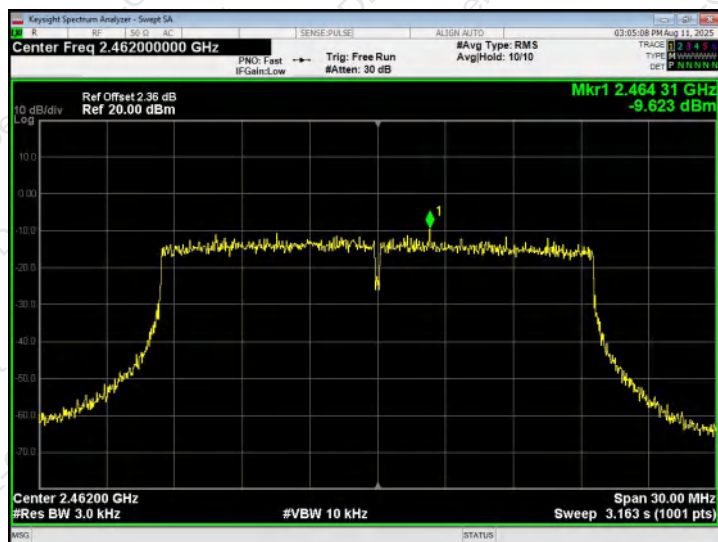
CH06



CH11



CH11



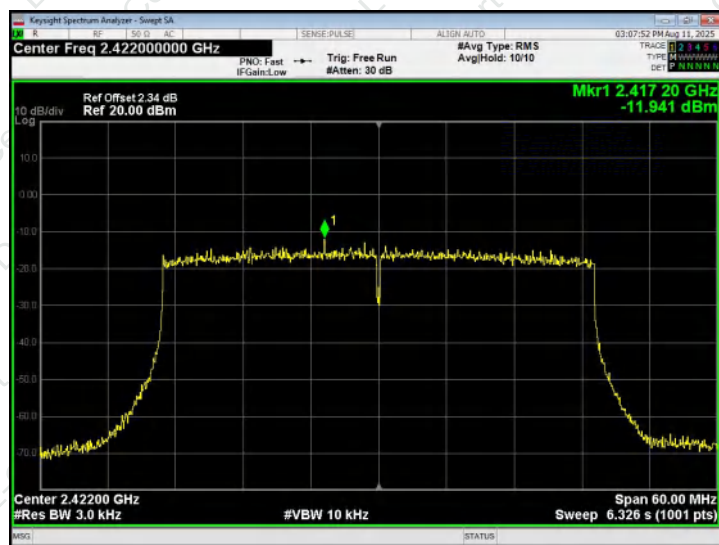
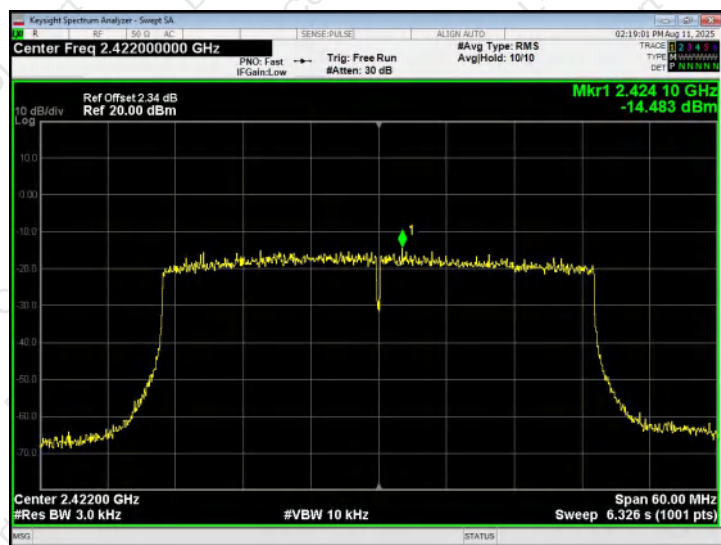


SISO ANT A - 802.11ax40

SISO ANT B - 802.11ax40

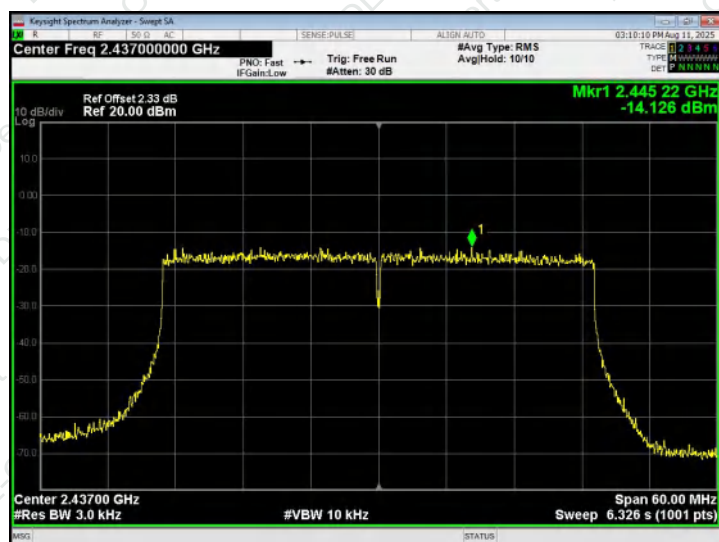
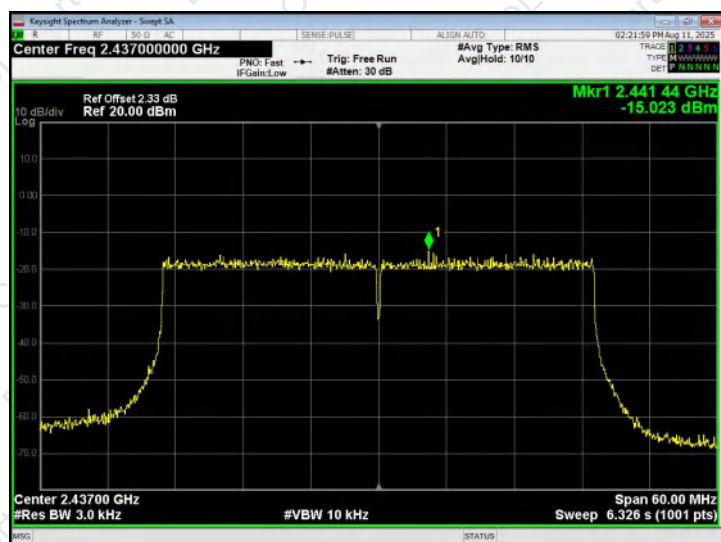
CH03

CH03



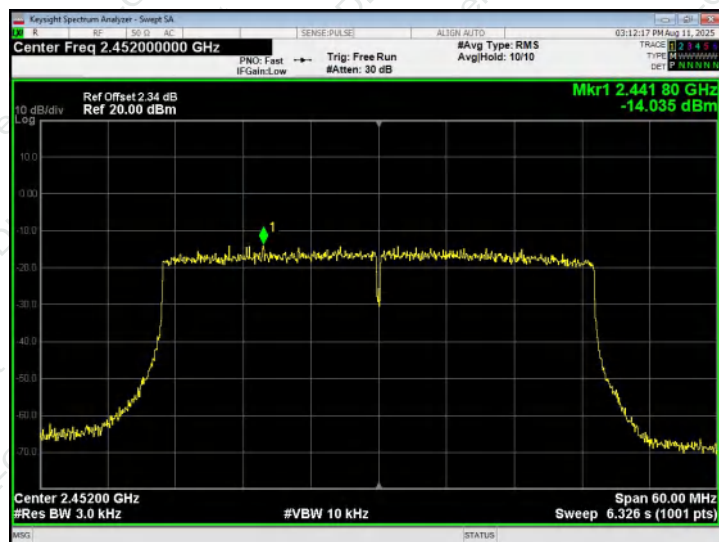
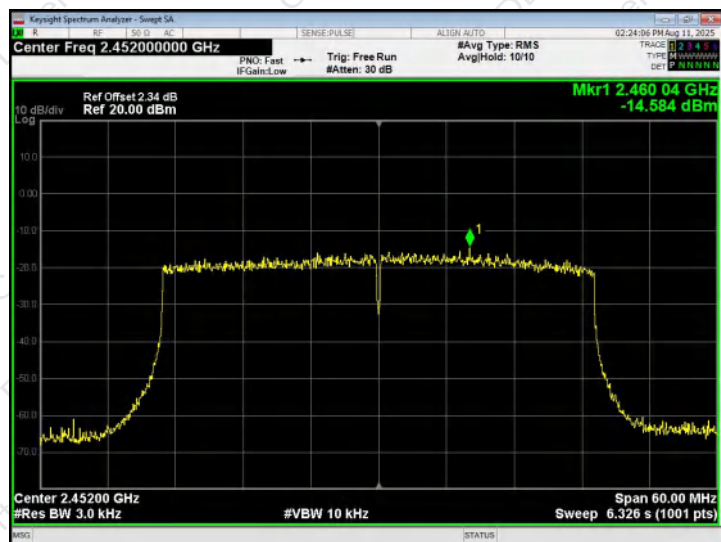
CH06

CH06



CH09

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 :	AC 120V/60Hz

Test Mode	Antenna	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	SISO ANT A	2412	8.05	>500	PASS
		2437	8.037		
		2462	7.58		
	SISO ANT B	2412	8.028	>500	PASS
		2437	8.053		
		2462	8.104		
802.11g	SISO ANT A	2412	16.083	>500	PASS
		2437	16.342		
		2462	16.057		
	SISO ANT B	2412	16.314	>500	PASS
		2437	16.33		
		2462	16.305		
802.11n20	SISO ANT A	2412	17.635	>500	PASS
		2437	17.545		
		2462	16.934		
	SISO ANT B	2412	16.893	>500	PASS
		2437	17.571		
		2462	17.207		
802.11n40	SISO ANT A	2422	35.108	>500	PASS
		2437	36.326		
		2452	35.522		
	SISO ANT B	2422	35.291	>500	PASS
		2437	36.37		
		2452	36.3		
802.11ax20	SISO ANT A	2412	18.11	>500	PASS
		2437	18.834		
		2462	18.311		
	SISO ANT B	2412	18.989	>500	PASS



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802.11ax40		2437	18.91		
		2462	18.51		
	SISO ANT A	2422	37.172	>500	PASS
		2437	37.854		
		2452	36.451		
	SISO ANT B	2422	37.694	>500	PASS
		2437	37.84		
		2452	37.861		

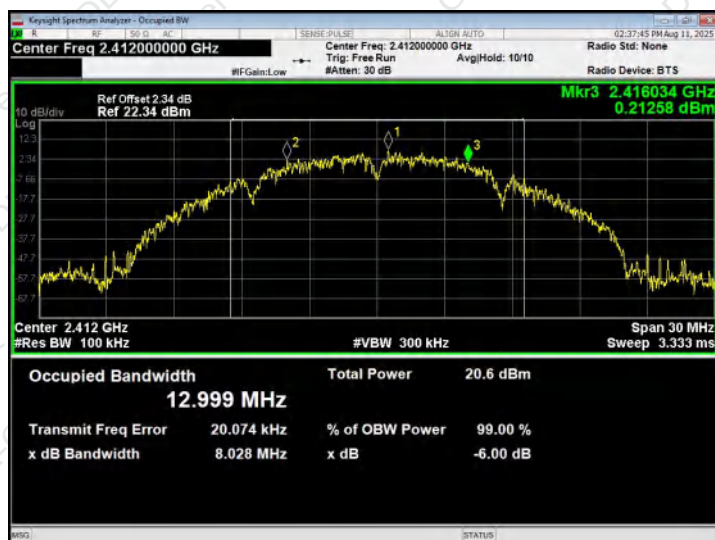
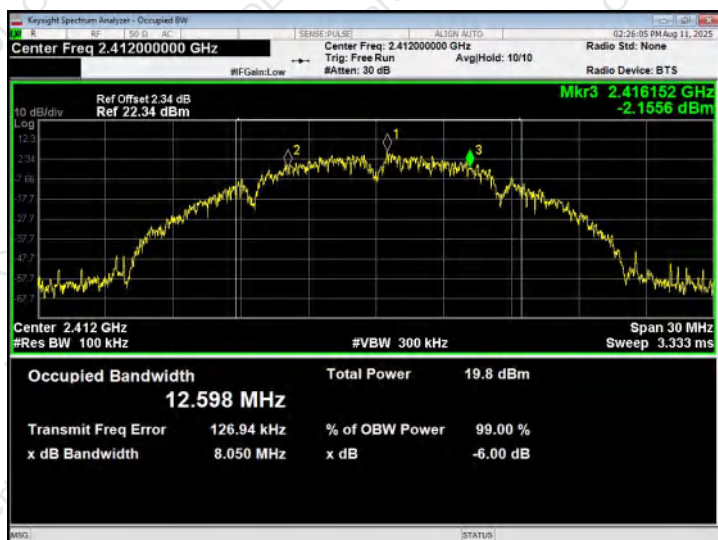


6dB Bandwidth

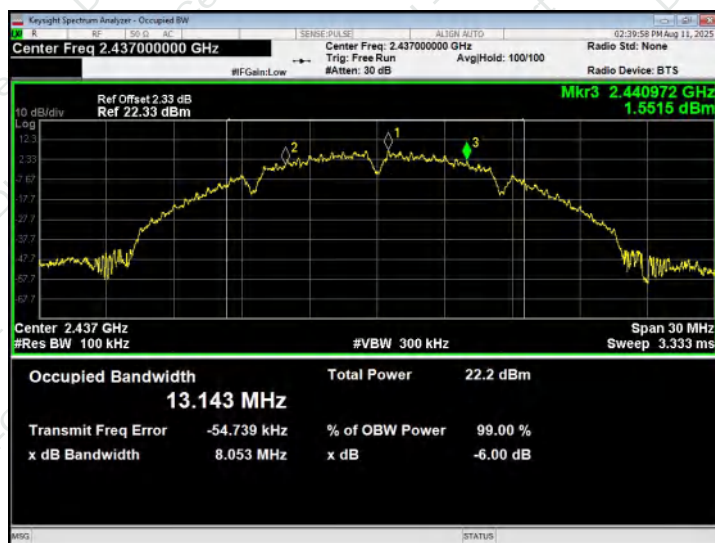
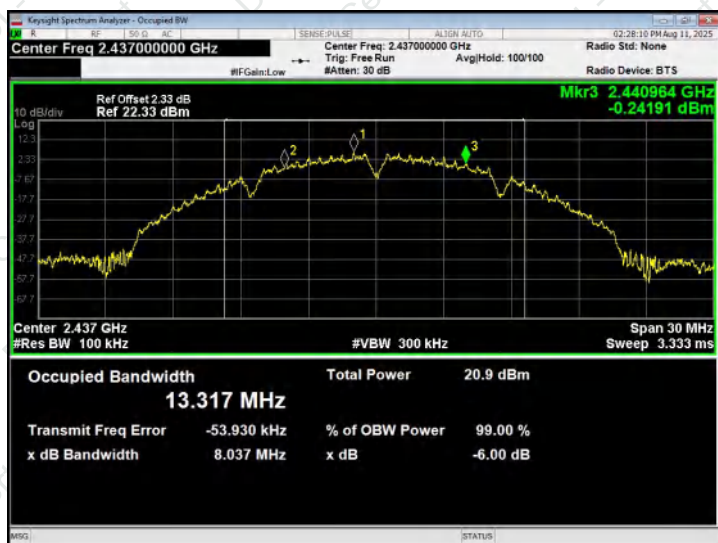
SISO ANT A - 802.11b

SISO ANT B - 802.11b

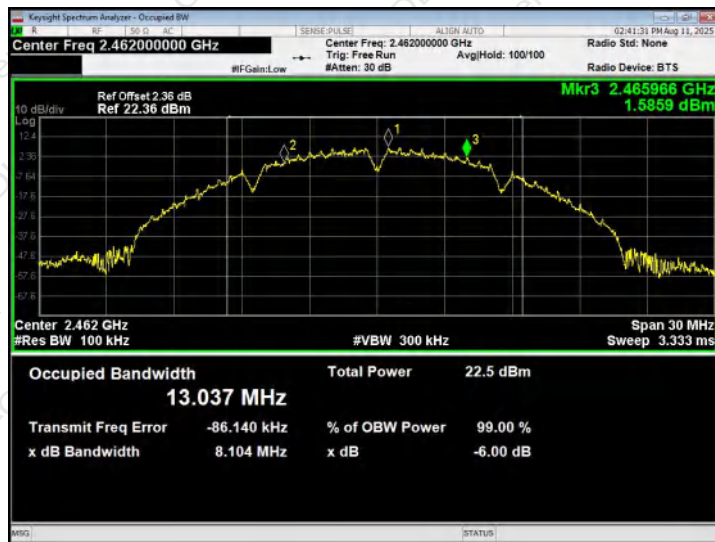
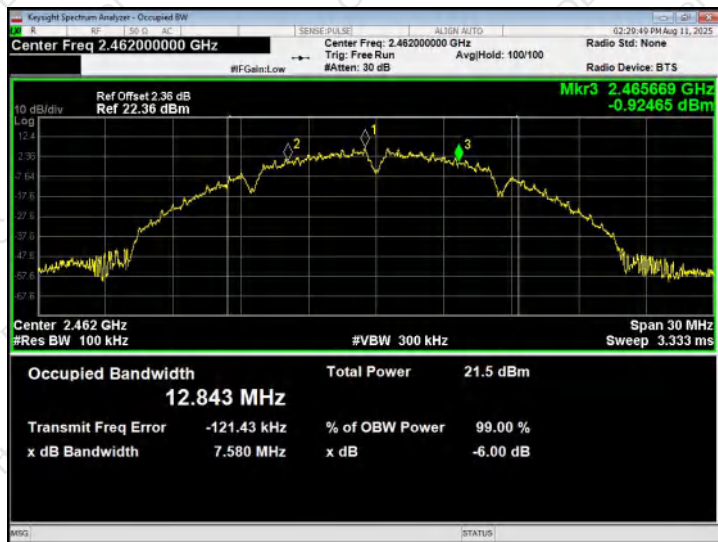
Lowest channel



Middle channel



Highest channel

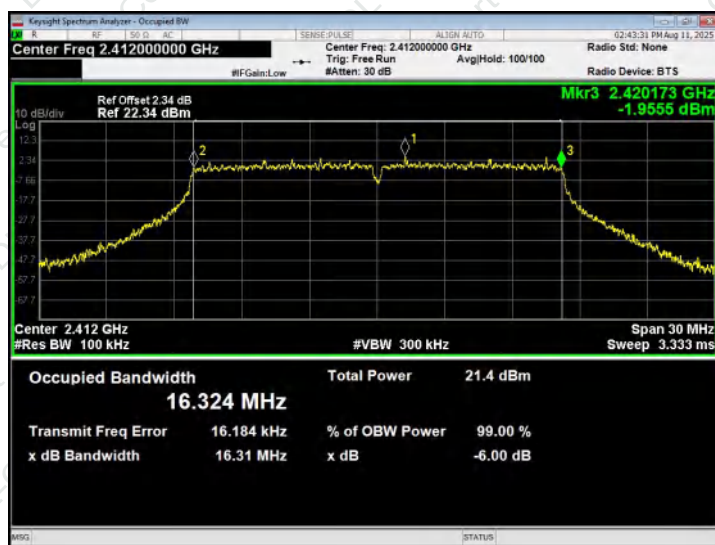
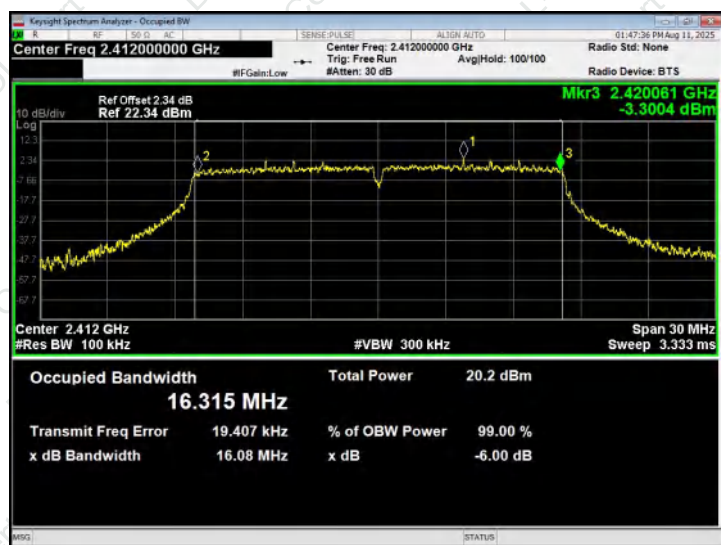




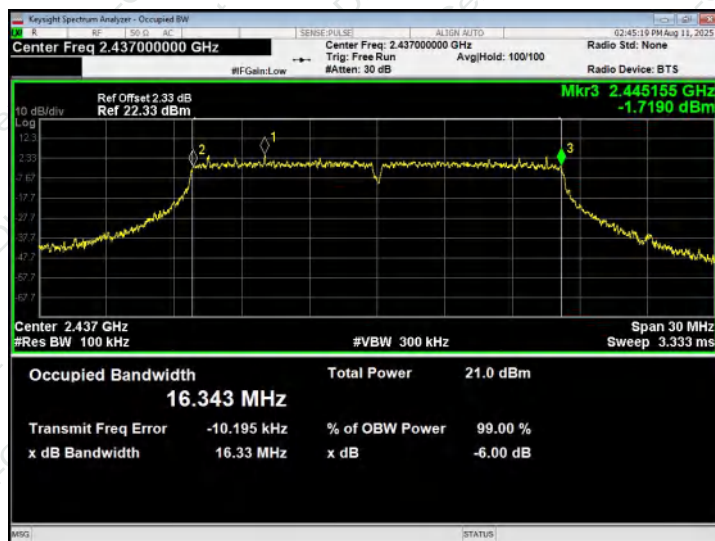
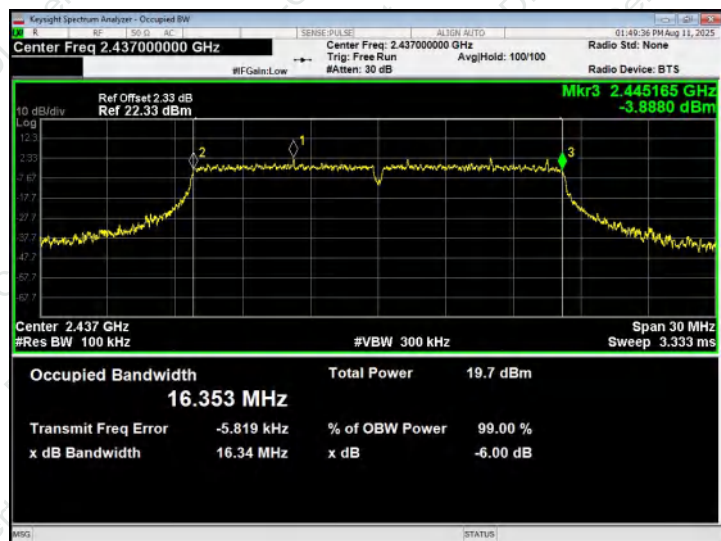
SISO ANT A - 802.11g

SISO ANT B - 802.11g

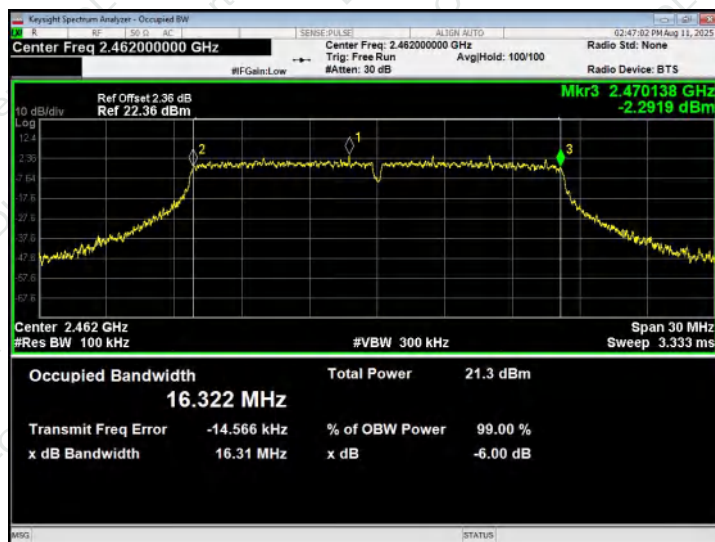
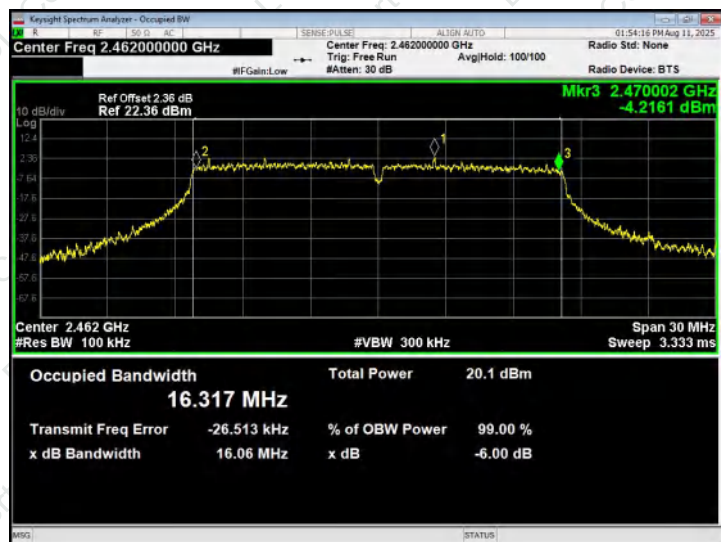
Lowest channel



Middle channel



Highest channel

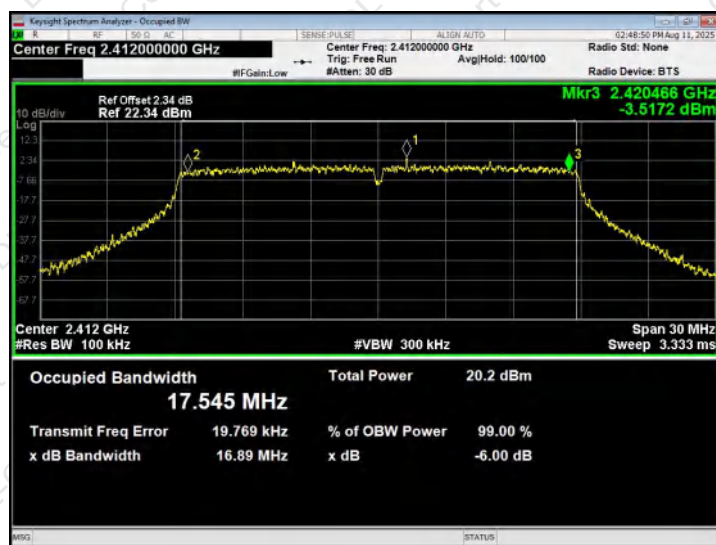
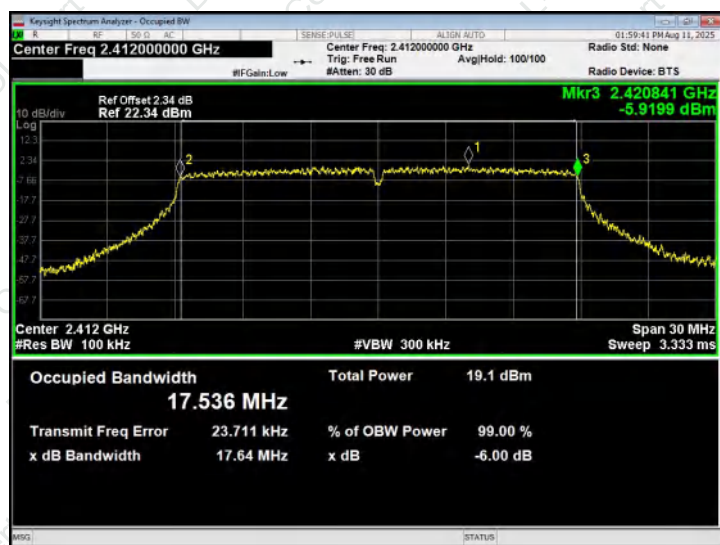




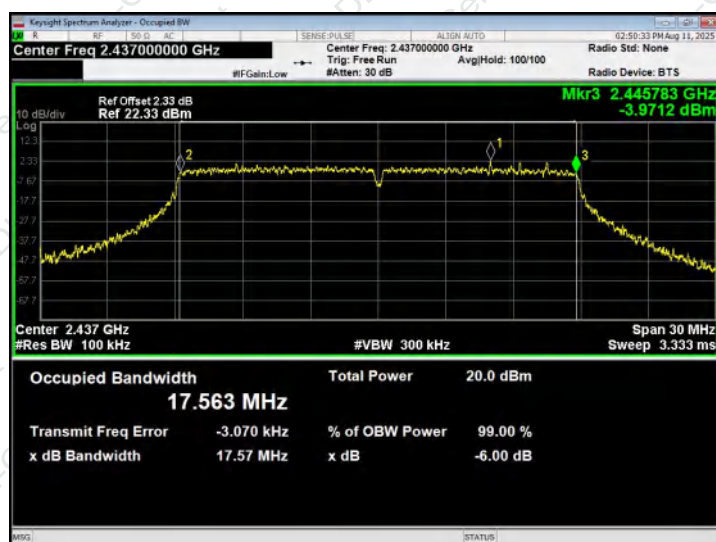
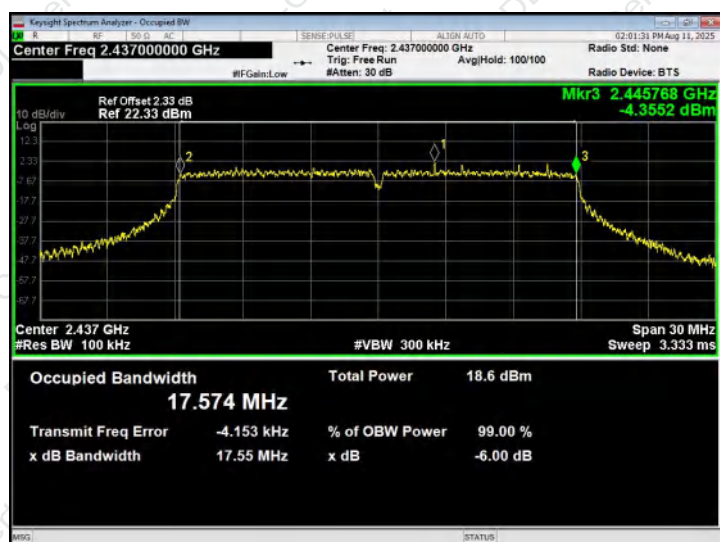
SISO ANT A - 802.11n20

SISO ANT B - 802.11n20

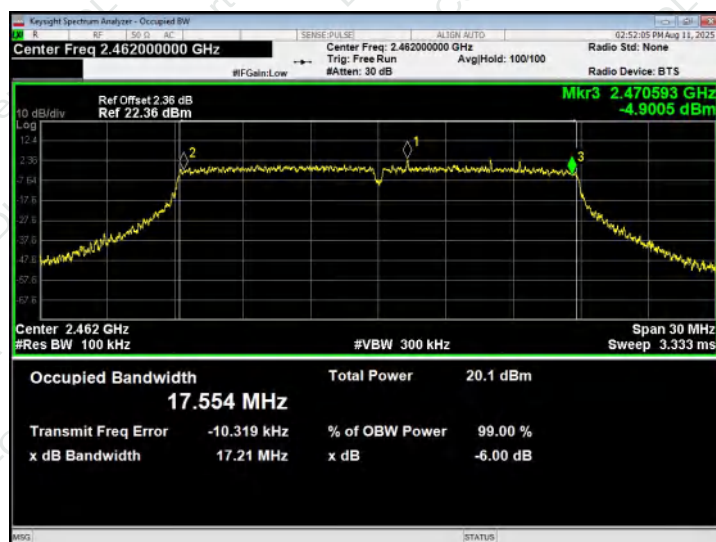
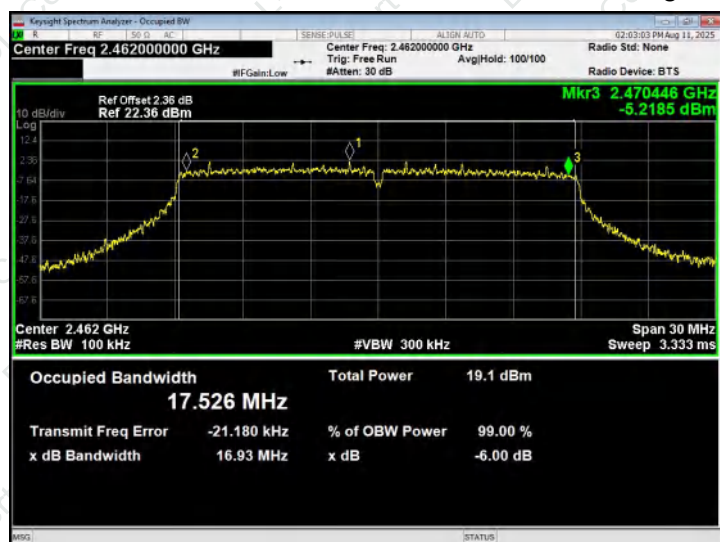
Lowest channel



Middle channel



Highest channel

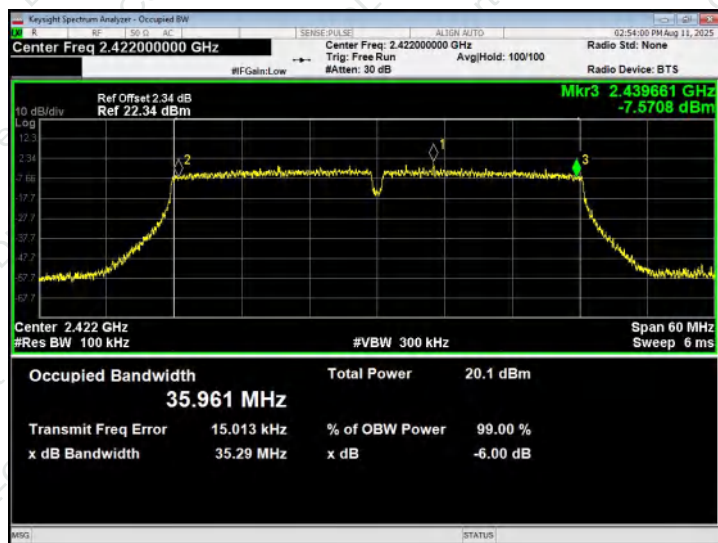
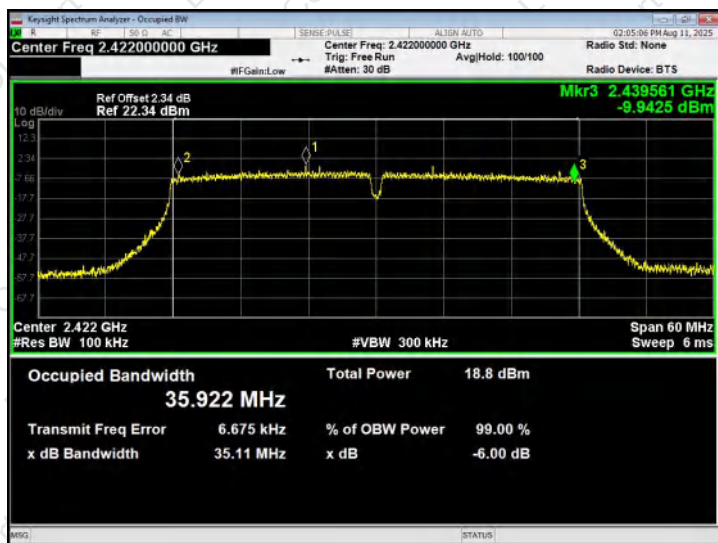




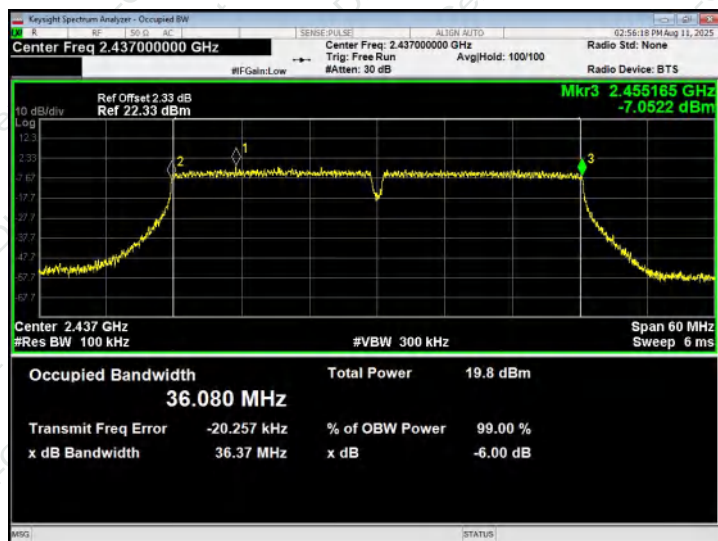
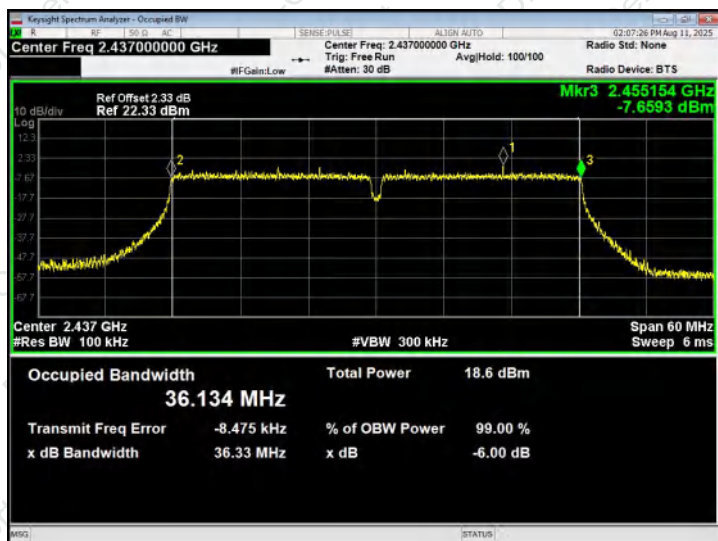
SISO ANT A - 802.11n40

SISO ANT B - 802.11n40

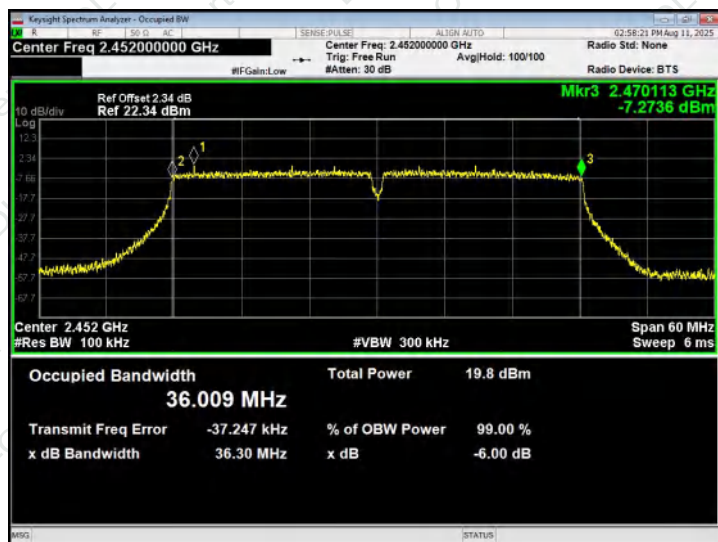
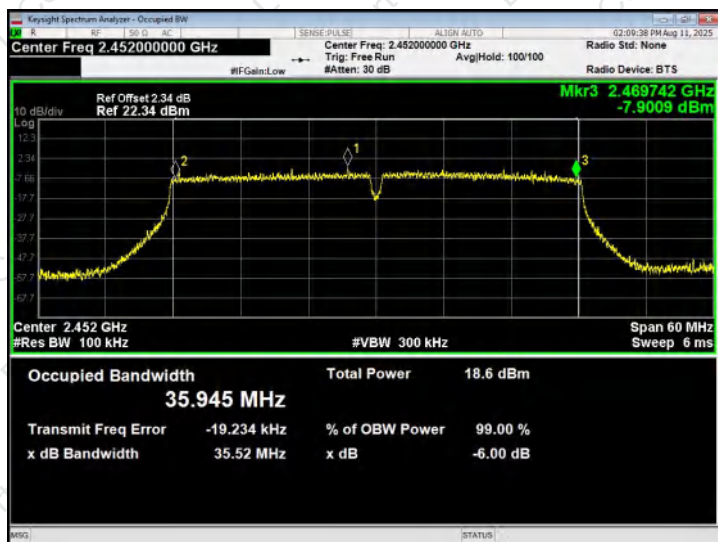
Lowest channel



Middle channel



Highest channel

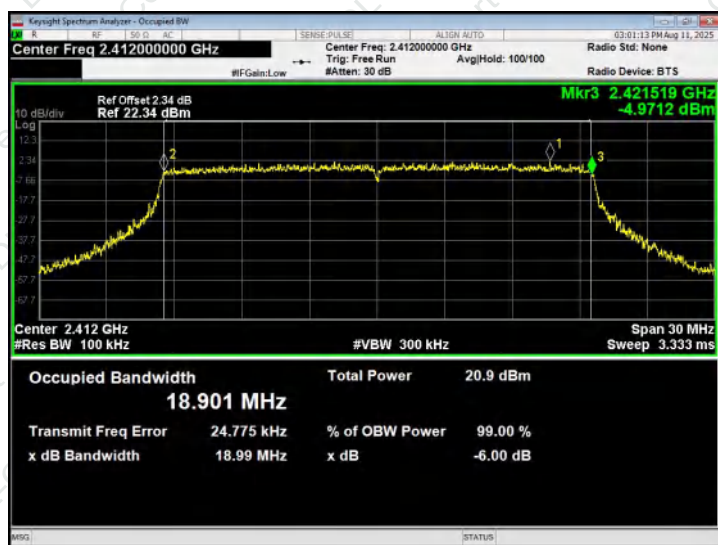
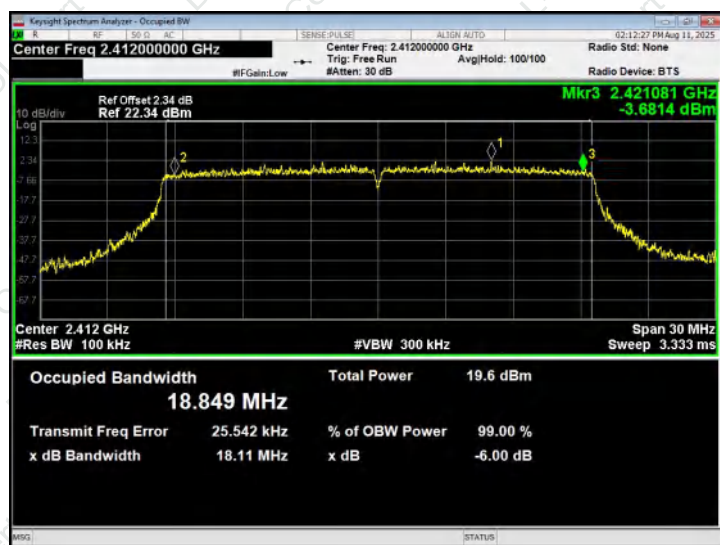




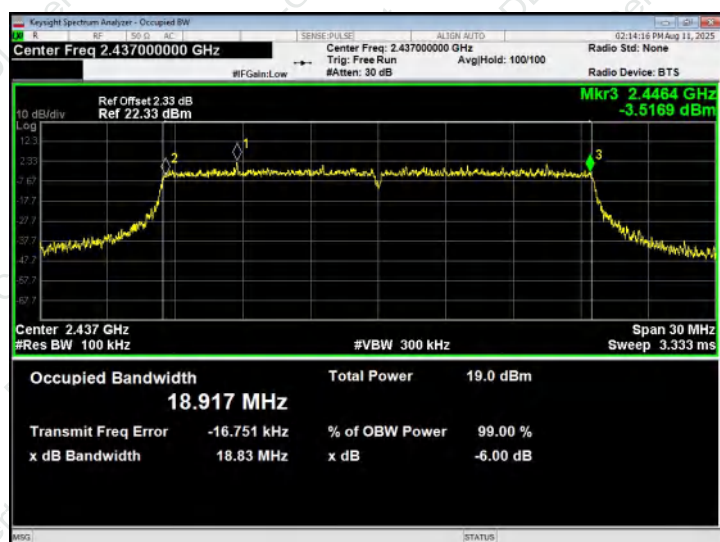
SISO ANT A - 802.11ax20

SISO ANT B - 802.11ax20

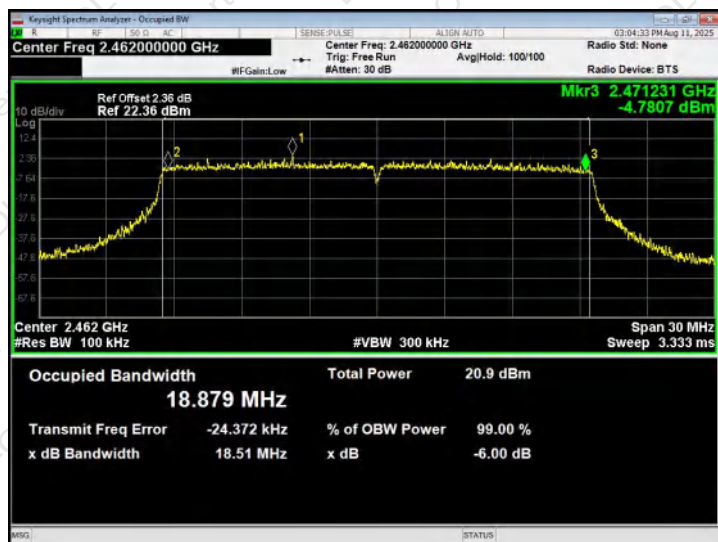
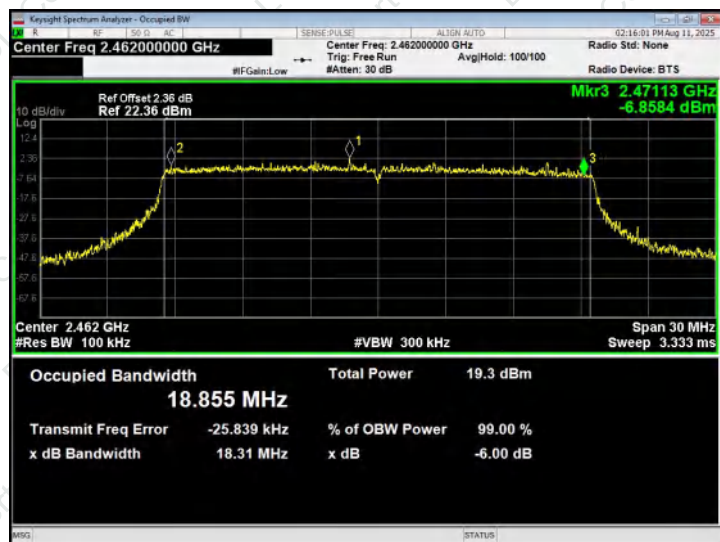
Lowest channel



Middle channel



Highest channel

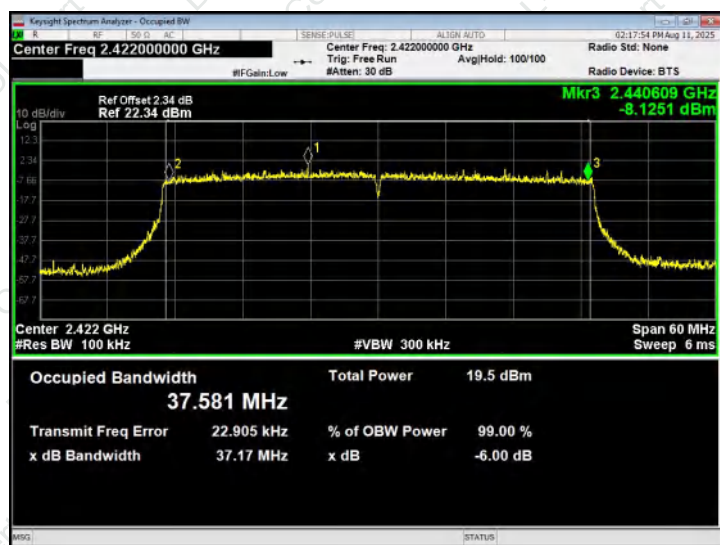




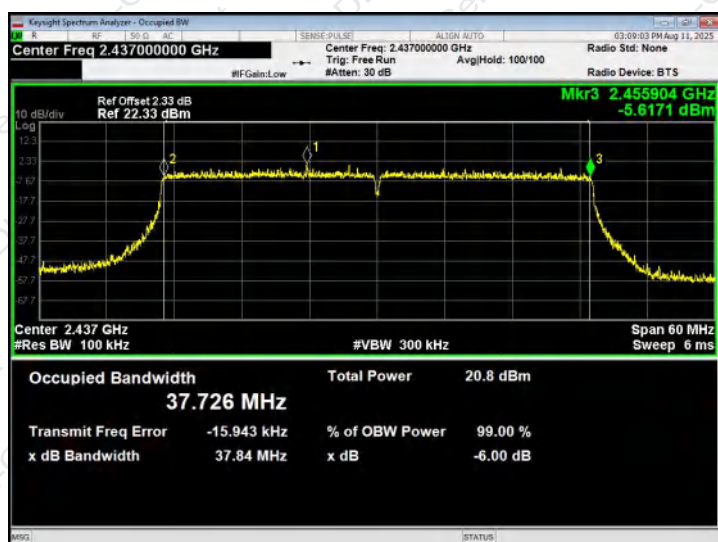
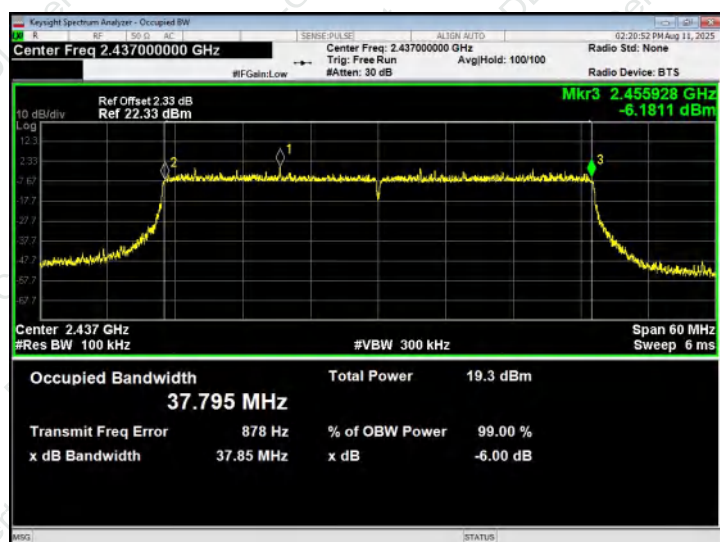
SISO ANT A - 802.11ax40

SISO ANT B - 802.11ax40

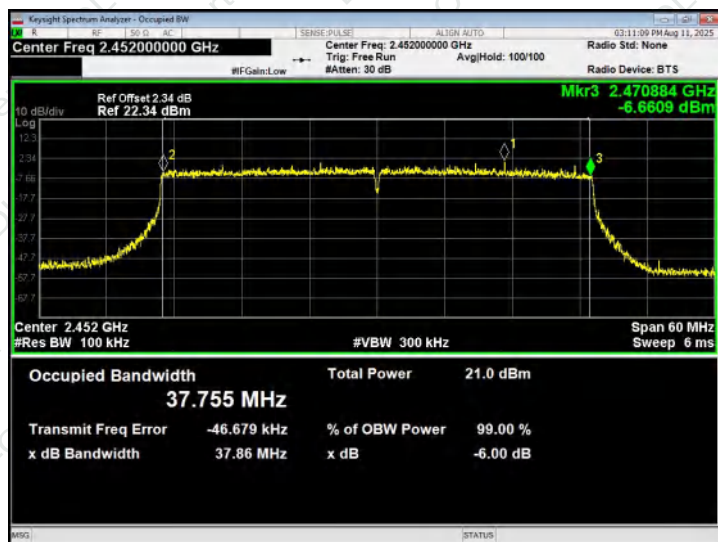
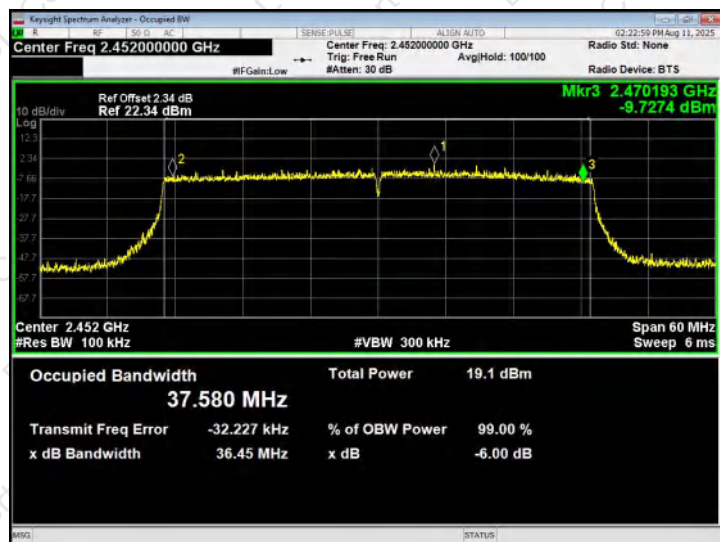
Lowest channel



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 :	AC 120V/60Hz

Test Mode	Antenna	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Result
802.11b	SISO ANT A	2412	16.584	30.00	Pass
		2437	16.012		
		2462	16.255		
	SISO ANT B	2412	17.398	30.00	Pass
		2437	17.464		
		2462	17.613		
802.11g	SISO ANT A	2412	18.852	30.00	Pass
		2437	18.369		
		2462	18.764		
	SISO ANT B	2412	20.124	30.00	Pass
		2437	19.802		
		2462	19.932		
802.11n20	SISO ANT A	2412	18	30.00	Pass
		2437	17.343		
		2462	17.885		
	SISO ANT B	2412	19.052	30.00	Pass
		2437	18.815		
		2462	19.071		
	MIMO A+B	2412	21.568	30.00	Pass
		2437	21.151		
		2462	21.529		
802.11n40	SISO ANT A	2422	17.48	30.00	Pass
		2437	17.241		
		2452	17.257		
	SISO ANT B	2422	18.798	30.00	Pass
		2437	18.614		
		2452	18.514		
	MIMO A+B	2422	21.199	30.00	Pass



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		2437	20.992		
		2452	20.941		
802.11ax20	SISO ANT A	2412	19.397	30.00	Pass
		2437	18.646		
		2462	18.972		
	SISO ANT B	2412	20.642	30.00	Pass
		2437	20.136		
		2462	20.454		
	MIMO A+B	2412	23.074	30.00	Pass
		2437	22.465		
		2462	22.786		
802.11ax40	SISO ANT A	2422	18.882	30.00	Pass
		2437	18.613		
		2452	18.553		
	SISO ANT B	2422	20.591	30.00	Pass
		2437	20.22		
		2452	20.192		
	MIMO A+B	2422	22.830	30.00	Pass
		2437	22.501		
		2452	22.460		



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 9.4 Unless otherwise a special operating condition is specified in the follows during the testing.

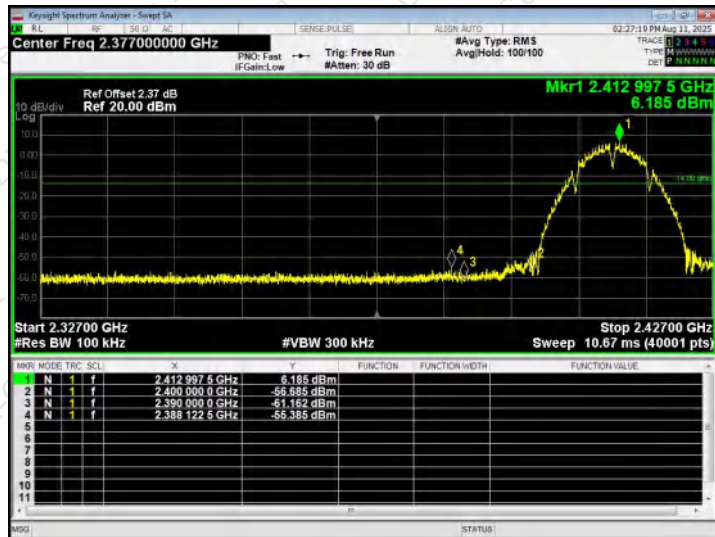
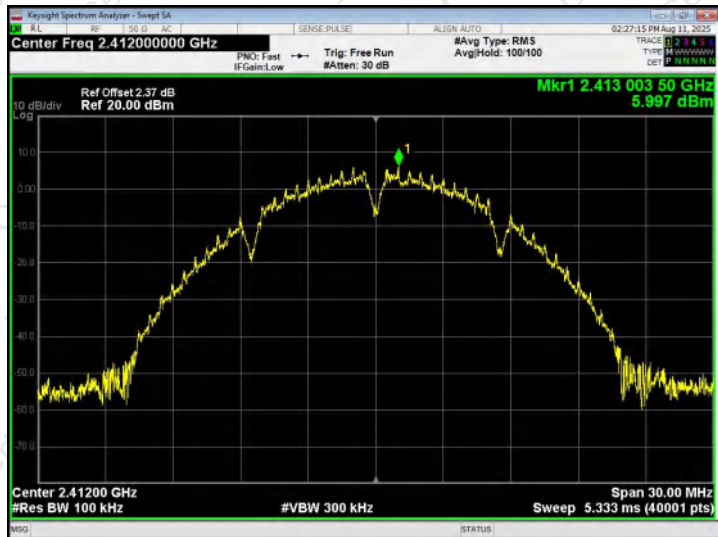
9.6 TEST RESULTS



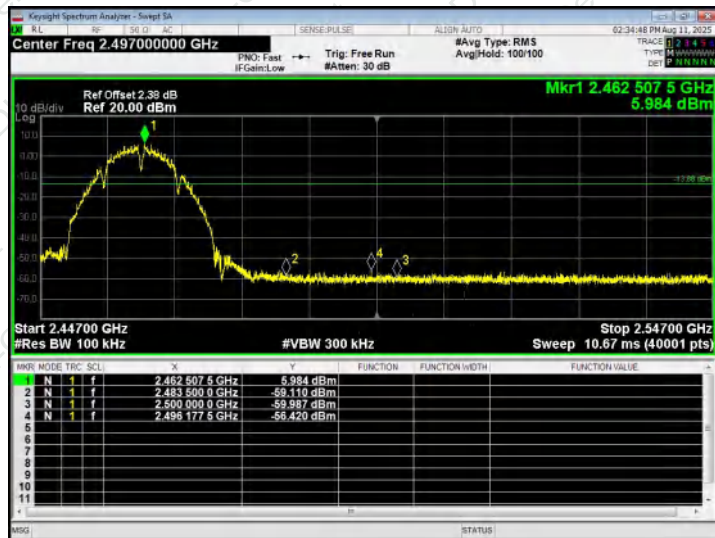
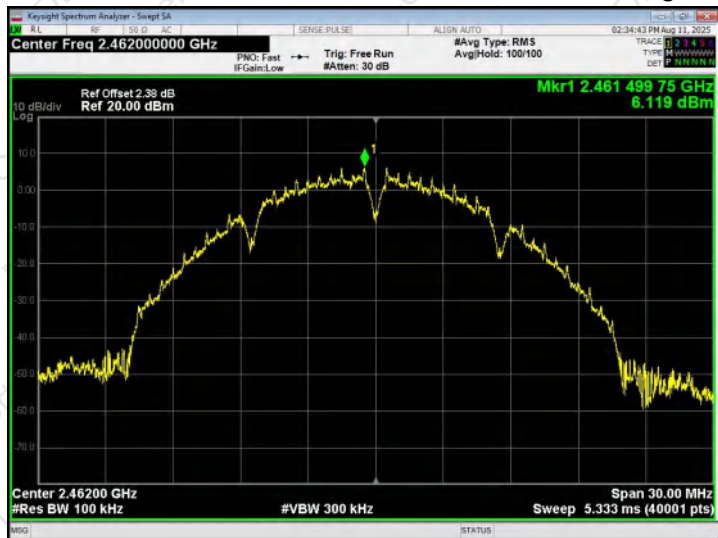
Test plot as follows:

SISO ANT A - 802.11b

Lowest channel



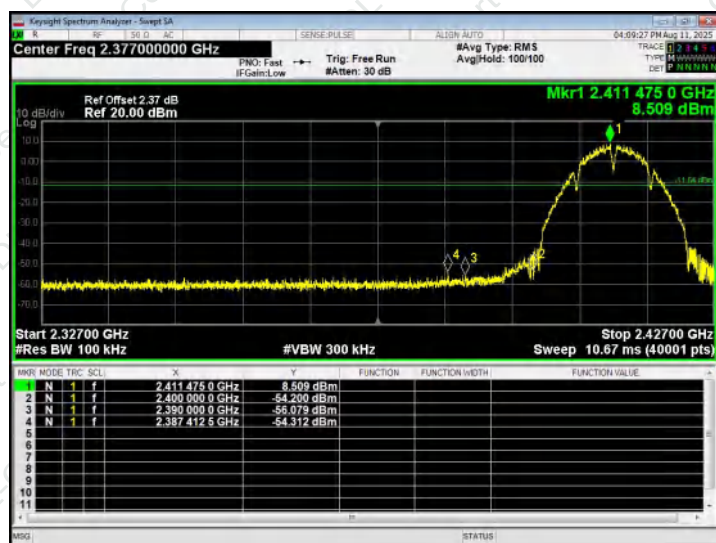
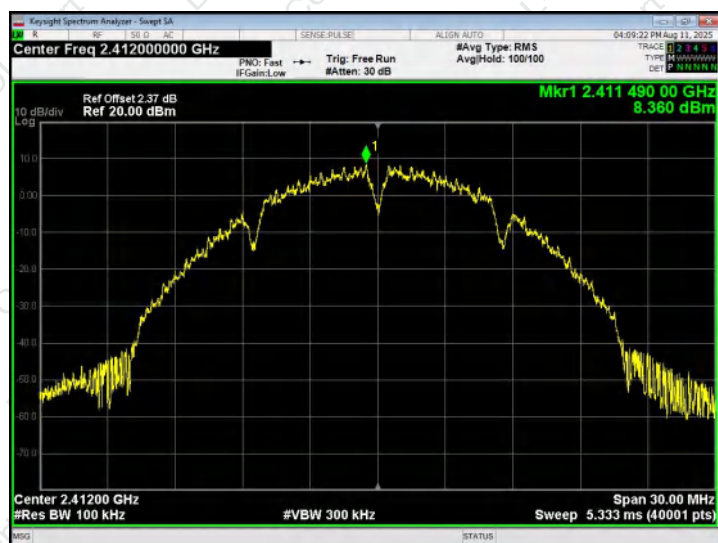
Highest channel



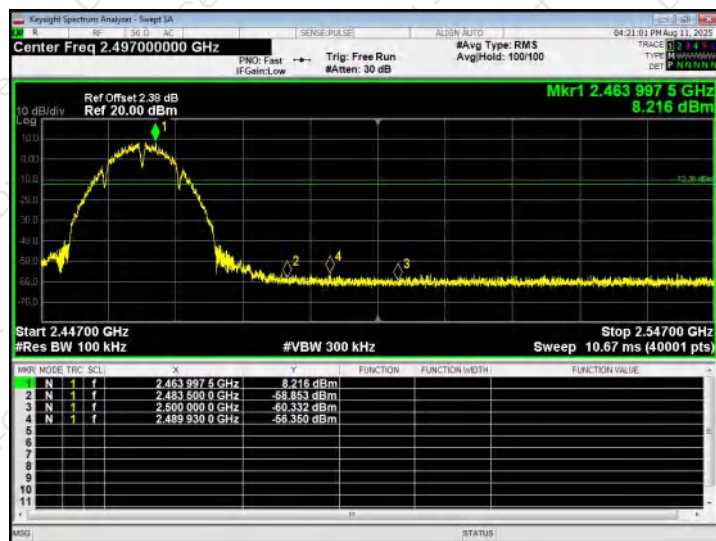
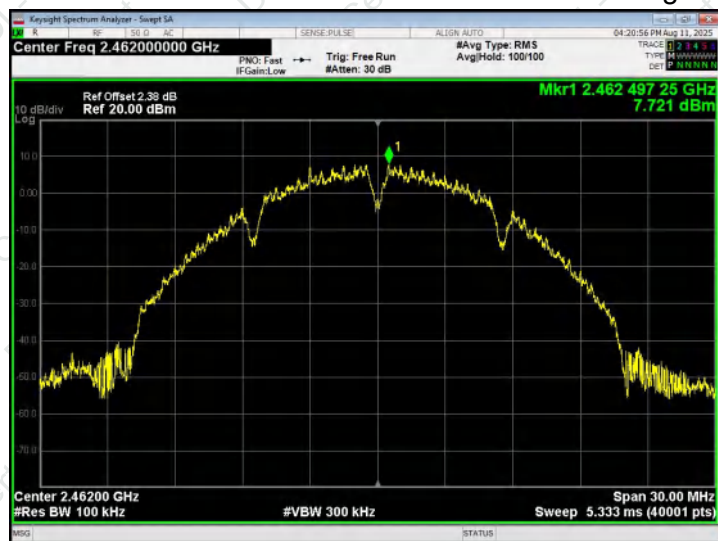


SISO ANT B - 802.11b

Lowest channel



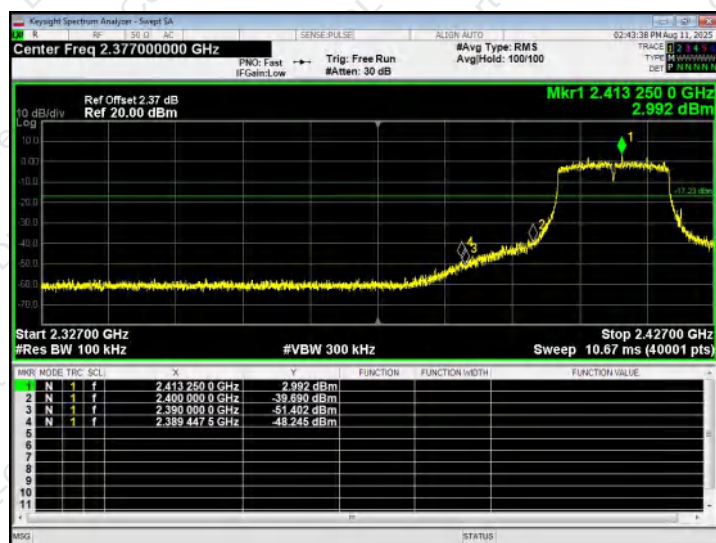
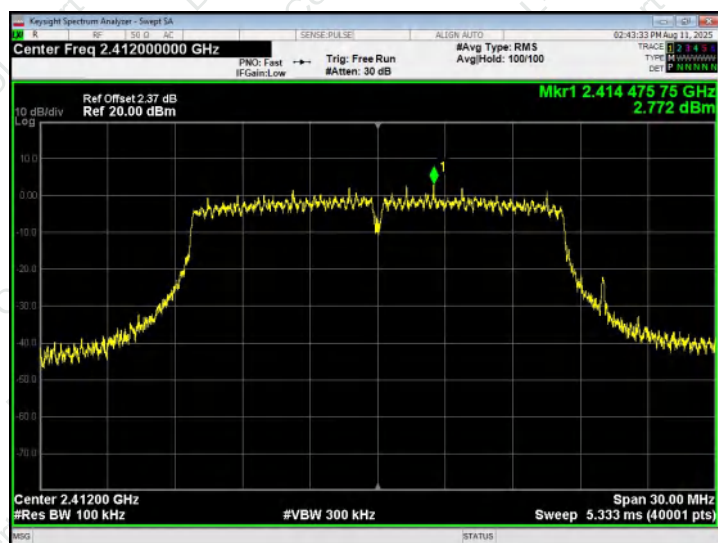
Highest channel



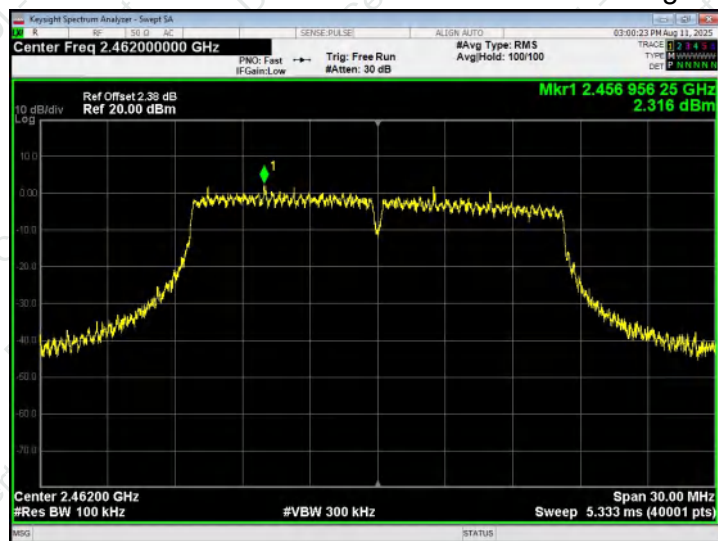


SISO ANT A - 802.11g

Lowest channel



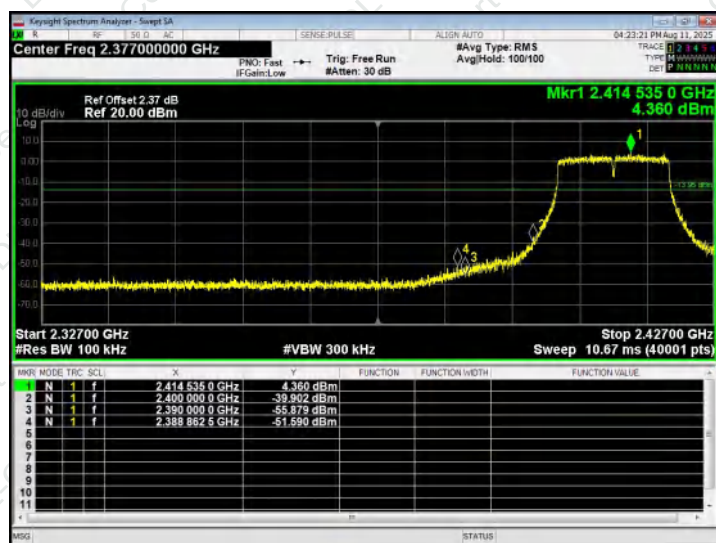
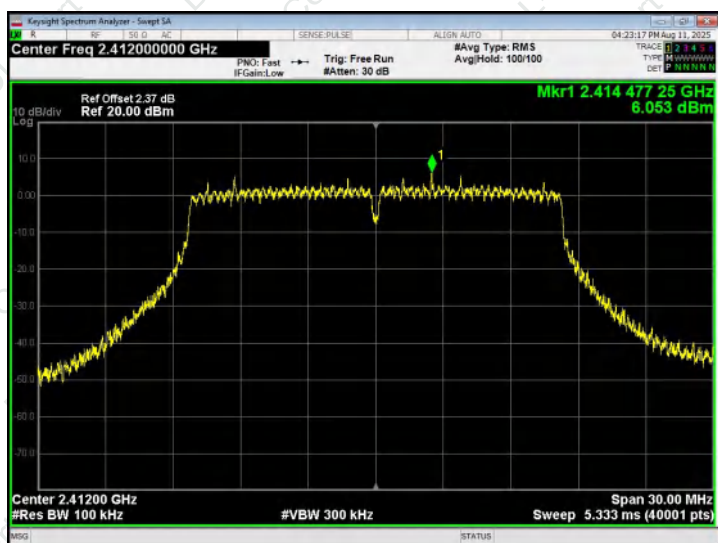
Highest channel



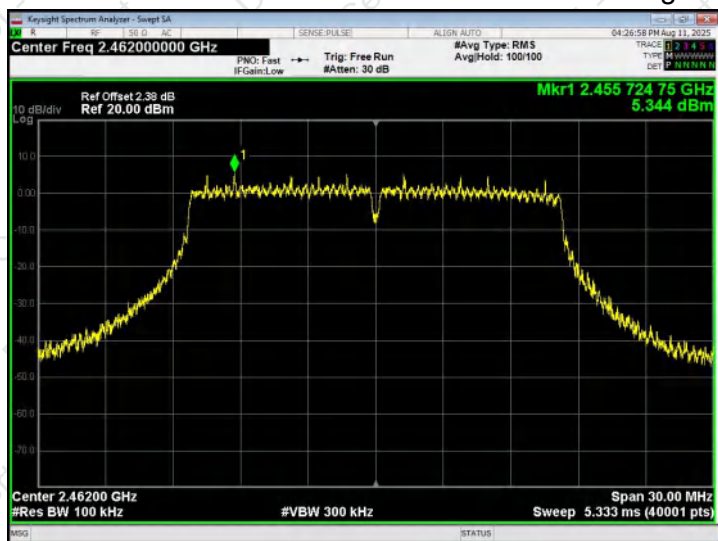


SISO ANT B - 802.11g

Lowest channel



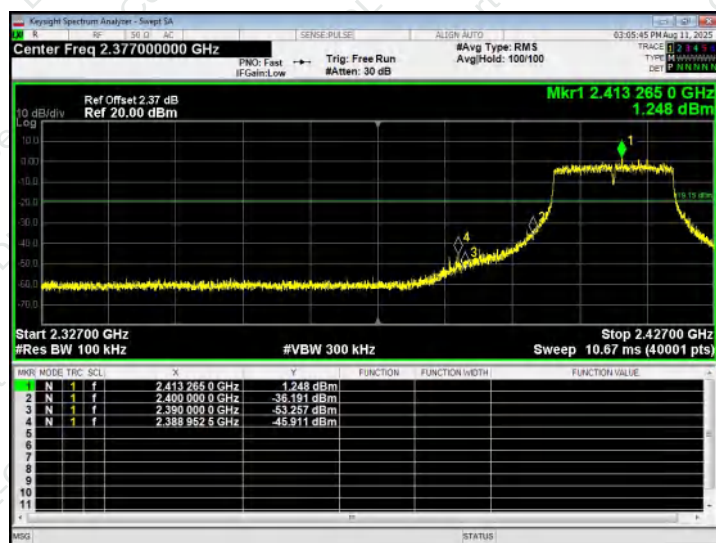
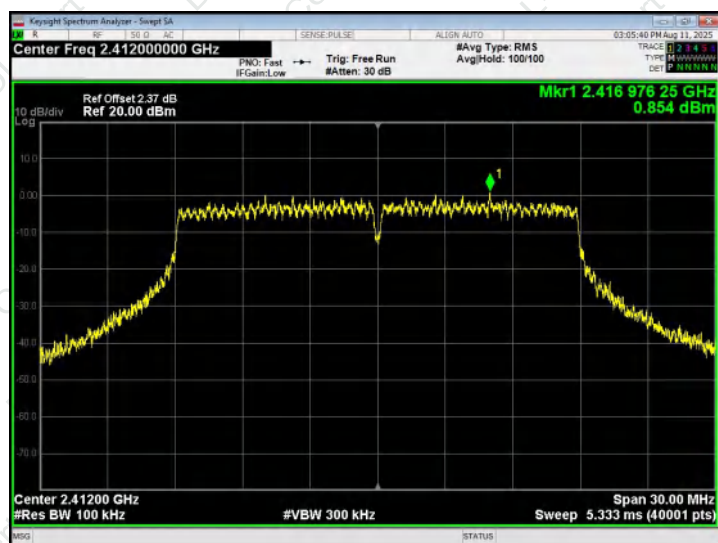
Highest channel



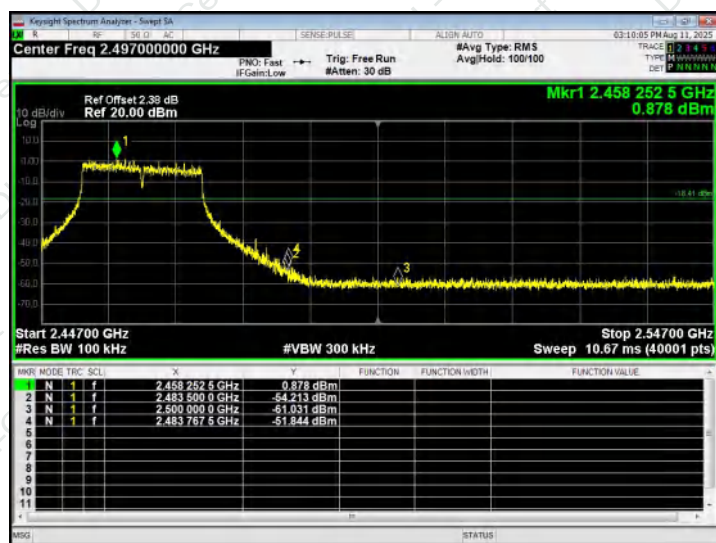
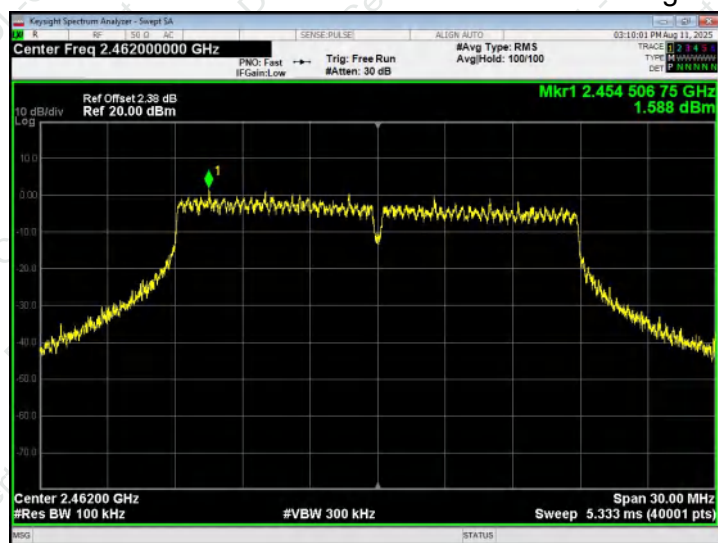


SISO ANT A - 802.11n20

Lowest channel



Highest channel

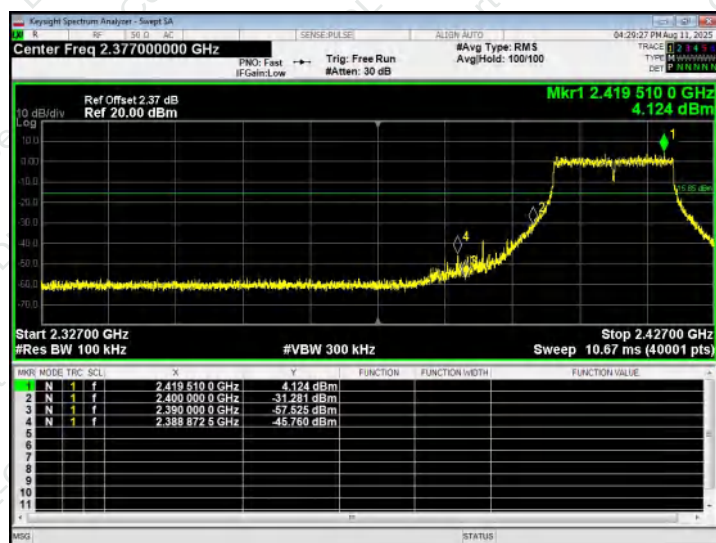
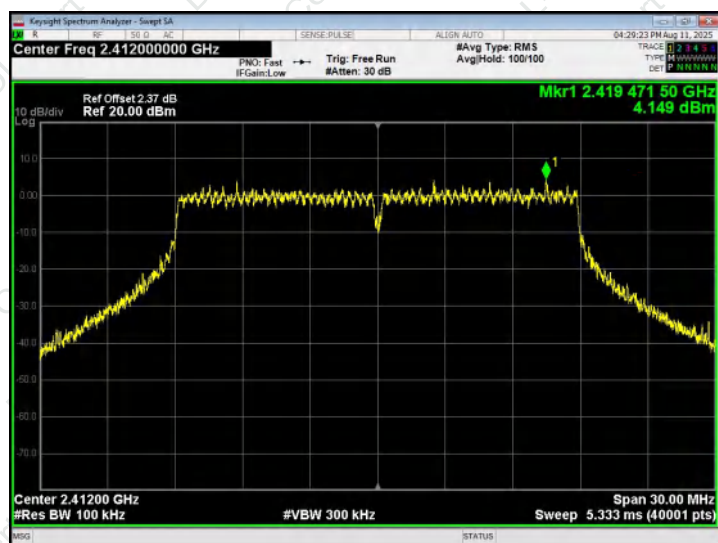


Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.

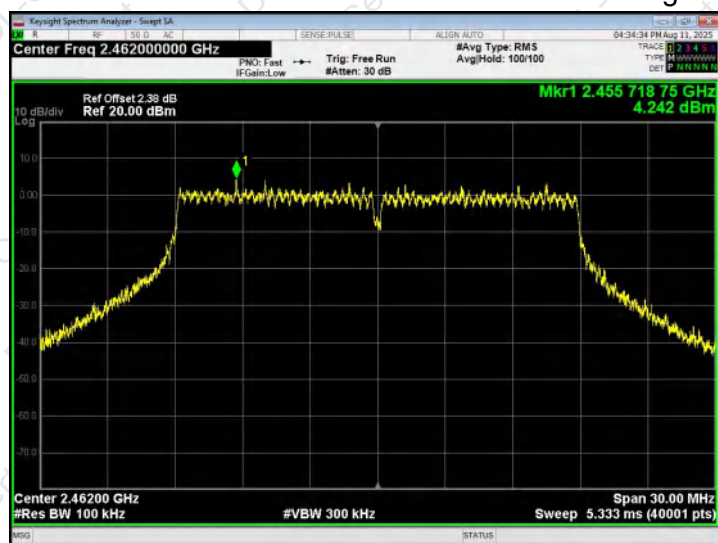


MIMO A - 802.11n20

Lowest channel



Highest channel

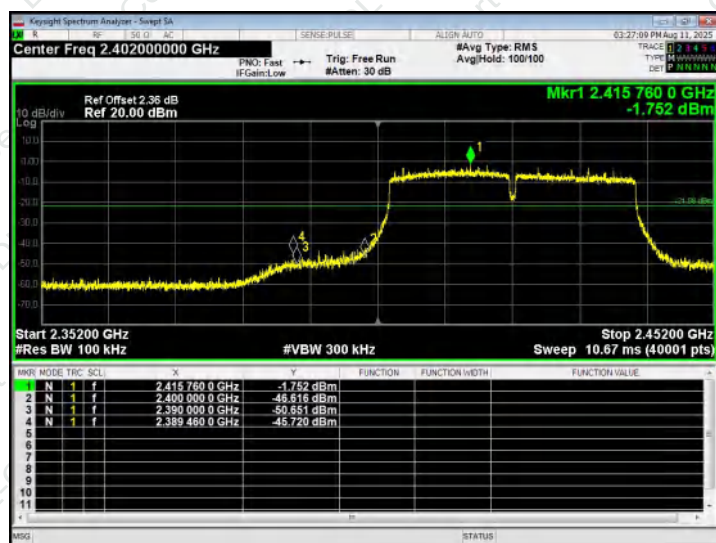
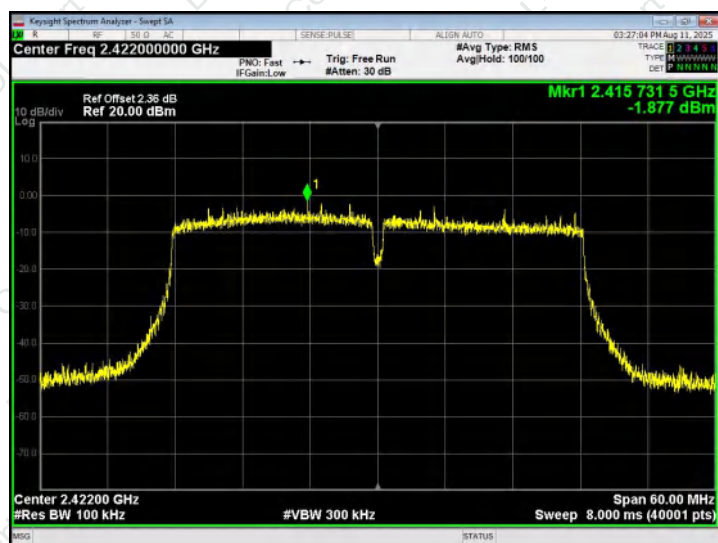


Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.

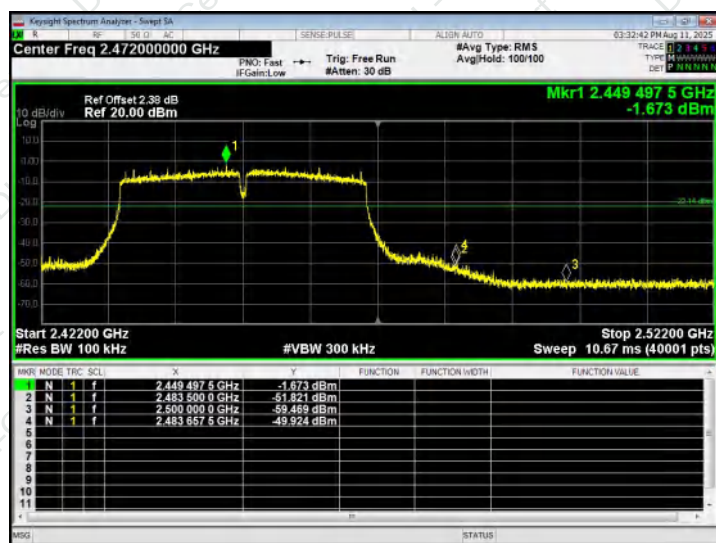
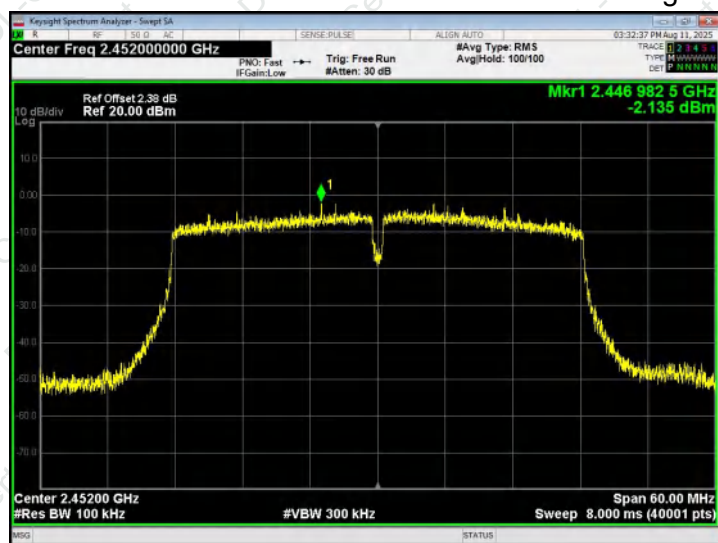


SISO ANT A - 802.11n40

Lowest channel



Highest channel



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