

Test report No:
2660484R.701A

FCC TEST REPORT

Product Name	WiFi/BT Module
Model and /or type reference	MWH655S
Trademark	Hisense
FCC ID	2AJVQ-MWH655S
Applicant's name / address	Qingdao Intelligent & Precise Electronics Co., Ltd. No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China.
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Tested By (name / position & signature)	Reyn Chen / Supervisor 
Approved by (name / position & signature)	Well Wei / Manager 
Date of issue	2026-08-22
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Location	Room 101, 1/F., Building 7, Smart Science Park Phase 5. No. 8213, Fanhua Avenue, Economic and Technological Development Zone, Hefei, Anhui, China
Date(receive sample)	Jun. 22, 2026
Date (start test)	Jul. 05, 2026
Date (finish test)	Aug. 07, 2026

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
T_x	: Transmitter
R_x	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2660484R.701A	V1.0	Initial issue of report.	2026-08-22

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247).
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Channel List;

USED EQUIPMENT

Conducted Test/ SR103

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Firmware Version	Software Version
Constant temperature and humidity chamber	Chuang Cexing	CCX-KS80DH	0005037	2026.05.11	2027.05.10	N/A	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2026.06.17	2027.06.16	N/A	N/A
Wideband Radio Communication Tester	R&S	CMW 500	163864	2026.05.08	2027.05.07	V 4.0.60	N/A
MAX Signal Analyzer	Keysight	N9020A	MY56060147	2026.06.17	2027.06.16	A.17.55	N/A
RF Control Unit	Tonscend	JS0806-2	806JS2X02 1710251017	2026.06.23	2027.06.22	N/A	N/A
Signal Generator	R&S	SMR 20	100654	2026.06.09	2027.06.08	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2026.06.17	2027.06.16	N/A	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.6.21
Temperature/Humidity Meter	RITERS	RTS-8S	034	2025.08.25	2026.08.24	N/A	N/A

Radiated Emission(9KHz-1GHz) / AC102

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
semi-anechoic chamber	Maorui	9m*6m*6m	AC102	2023.08.23	2026.08.22	N/A	N/A
Bilog Antenna	TESEQ	CBL6112D	57867	2025.10.27	2026.10.26	N/A	N/A
Loop Antenna	R&S	HFH2-Z2E	101181	2025.10.24	2026.10.23	N/A	N/A
EMI test receiver	R&S	ESR7	102753	2026.05.07	2027.05.06	V3.66SP1	
Temperature/ Humidity Meter	RTS-8S	RTS-8S	013	2025.08.29	2026.08.28	N/A	N/A
Temperature/ Humidity Meter	RTS-8S	RTS-8S	015	2025.08.25	2026.08.24	N/A	N/A
Test Software	TS+	TS Testing System	N/A	N/A	N/A	N/A	V1.0

Radiated Emission (1GHz-40GHz) / AC103

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Firmware Version	Software Version
Fully-anechoic chamber	Maorui	9m*6m*6m	AC103	2023.08.23	2026.08.22	N/A	N/A
MAX Signal Analyzer	Keysight	N9020B	MY63490118	2025.08.08	2026.08.07	A35.06	N/A
Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2025.10.19	2026.10.18	N/A	N/A
Low Noise Amplifier	Tonscend	TAP01018048S	AP23J8060307	2025.10.17	2026.10.16	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2025.10.18	2026.10.17	N/A	N/A
Low Noise Amplifier	ESE	LNA1840	LNA23070301	2025.10.17	2026.10.16	N/A	N/A
Temperature/Humidity Meter	RITERS	RTS-8S	029	2025.08.25	2026.08.24	N/A	N/A
Temperature/Humidity Meter	RITERS	RTS-8S	010	2025.08.25	2026.08.24	N/A	N/A
Test Software	Tonscend	J536	JS36-RSE	N/A	N/A	N/A	5.0.0

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.8 dB 150kHz~30MHz: 2.4 dB
Power Output	± 1.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 3.5 dB, 300MHz~1GHz: 3.6 dB Vertical: 30MHz~300MHz: 3.6 dB, 300MHz~1GHz: 3.5 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~40GHz: 5.0 dB Vertical: 1GHz~40GHz: 4.8 dB
RF antenna conducted test	± 1.3 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 1.0 kHz
Occupied Bandwidth	± 1.0 kHz
Power Density	± 1.3 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name:	WiFi/BT Module	
Model Name:	MWH655S	
Trademark.:	Hisense	
FCC ID:	2AJVQ-MWH655S	
Power Supply:	3.3Vdc	
Hardware Version:	N/A	
Software Version:	N/A	
Manufacturer:	Qingdao Intelligent & Precise Electronics Co., Ltd.	
Manufacturer Address:	No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China.	
Test Matrix/ IMEI:	RF Conducted	#1
	RSE	#2
Wireless specification:	802.11b/g/n/ax	
Operating frequency range(s):	2412~2462MHz	
Type of Modulation :	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)	
Smart System:	☒	SISO
	☒	MIMO-CDD
	☐	MIMO-Beamforming

Antenna Information

Antenna	Brand	Antenna Type	Antenna Gain (dBi)		
1	hanyang	Ceramics	SISO	Power:WIFI0:0.80;WIFI1:2.58	PSD: WIFI0:0.80;WIFI1:2.58
			CDD	Power:2.58	PSD:4.75
2	INPAO	FPC	SISO	Power: WIFI0:2.00;WIFI1:2.00	PSD: WIFI0:2.00;WIFI1:2.00
			CDD	Power:2.00	PSD:5.01
3	hanyang	PIFA	SISO	Power: WIFI0:3.72;WIFI1:3.72	PSD: WIFI0:3.72;WIFI1:3.72
			CDD	Power:3.72	PSD:6.73
4	Hisense	PCB	SISO	Power: WIFI1:1.82;WIFI3:0.1	PSD: WIFI1:1.82;WIFI3:0.1
			CDD	Power:1.82	PSD:4.01

Note1: Conducted measurements were performed with reference to Antenna3, as Antenna3 has higher antenna gain.

Note2: For RSE, we pre-test all antennas and finally select the Antenna1 with the worst test results for all tests.

Remark:

As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

1.2 Channel List

IEEE 802.11b/g & IEEE 802.11n/ax (20MHz)

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

IEEE 802.11n/ax (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422 MHz	4	2427 MHz	5	2432 MHz	6	2437 MHz
7	2442 MHz	8	2447 MHz	9	2452 MHz	-	-

Note: The General Description of the Item, Channel List in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Auxiliary equipment /Accessories/Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
software	Type / Version		
QATool	0.0.2.28		

Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.2 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	Data Rate
802.11b	1Mbps
802.11g	6Mbps
802.11n 20	MCS0(6.5 Mbps)
802.11n 40	MCS0(13.5 Mbps)
802.11ax 20	MCS0(7.3Mbps)
802.11ax 40	MCS0(14.6Mbps)

Note1.EUT supports SISO Ant 1 antenna mode, SISO Ant 2 mode and MIMO Ant 1+2 mode. What is shown in the report is the data of the worst antenna mode.

Note2: 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for lowCH) and partial RU-right (for high CH) test output power, the full RU power/PSD > partial RU.therefore the full RU perform full, and partial RU verify Band Edge/Spurious.

2.3 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting
802.11b	01	2412	13.5
	06	2437	13.5
	11	2462	13.5
802.11g	01	2412	12.0
	06	2437	13.5
	11	2462	11.0
802.11n20	01	2412	9.0
	06	2437	11.5
	11	2462	10.5
802.11n40	03	2422	11.5
	06	2437	11.5
	09	2452	11.5
802.11ax20	01	2412	9.0
	06	2437	11.5
	11	2462	10.0
802.11ax40	03	2422	11.5
	06	2437	11.5
	09	2452	11.5
802.11ax20-RU26	01	2412	6.0
	06	2437	6.0
	11	2462	6.0
802.11ax20-RU52	01	2412	9.0
	06	2437	8.0
	11	2462	8.0
802.11ax20-RU106	01	2412	8.0
	06	2437	8.0
	11	2462	9.0
802.11ax40-RU242	03	2422	9.0
	06	2437	9.0
	09	2452	9.0

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2024	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01V05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test Item of FCC	Standard(s)	Verdict	Remark
DTS Bandwidth	FCC 15.247(a)(2)	PASS	Test data please refer to Appendix A
Maximum conducted output power	15.247 (b)(3)	PASS	Test data please refer to Appendix B
Maximum power spectral density	FCC 15.247(e)	PASS	Test data please refer to Appendix C
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix D
Conducted Spurious Emission	FCC 15.247(d), FCC 15.209	PASS	Test data please refer to Appendix E
Duty cycle	ANSI C63.10:2020	PASS	Test data please refer to Appendix F
Emissions in Restricted Bands	FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix G
AC Power Line Conducted Emission	FCC 15.207	N/A	The EUT is powered by DC and is not applicable.
Antenna Requirement	FCC 15.203	PASS	---
Note: The radiation measurement is pre tested under X, Y, and Z axis positioning to find the worst placement for final testing.			

3.4 Test Facility

Tset Location : FCC Designation Number: CN1321

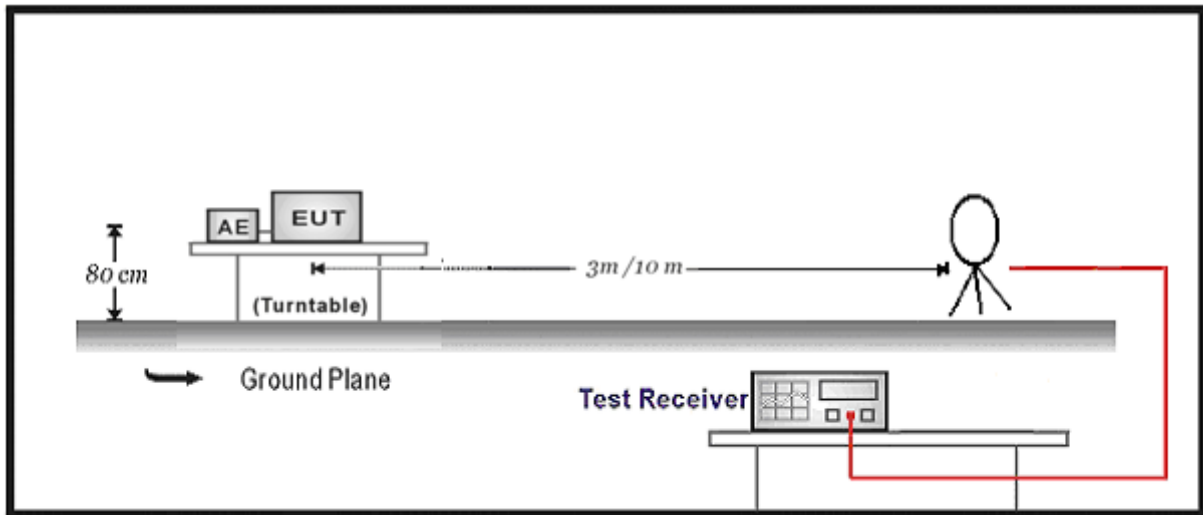
4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 Emissions in restricted frequency bands			VERDICT: PASS
4.1.1 Limit			
Standard		FCC Part 15 Subpart C Paragraph 15.205; 15.209.	
Restricted Bands of operation for FCC			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	Above 38.6
13.36 – 13.41	--	--	--
Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 ^(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 ^(Note 1)
1.705 - 30	30	29.5	30 ^(Note 1)
30 - 88	100	40	3 ^(Note 2)
88 - 216	150	43.5	3 ^(Note 2)
216 - 960	200	46	3 ^(Note 2)
Above 960	500	54	3 ^(Note 2)
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).			
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field			

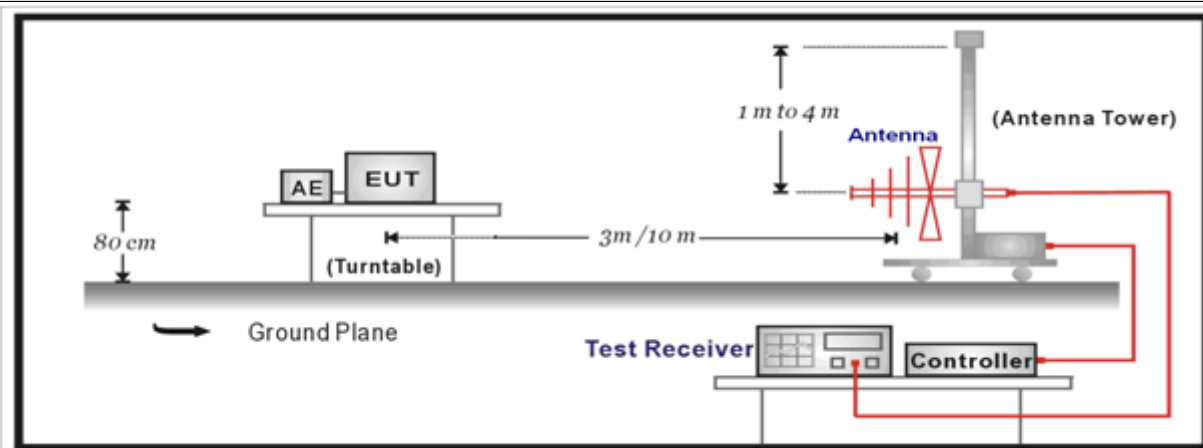
measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.1.2 Test Setup

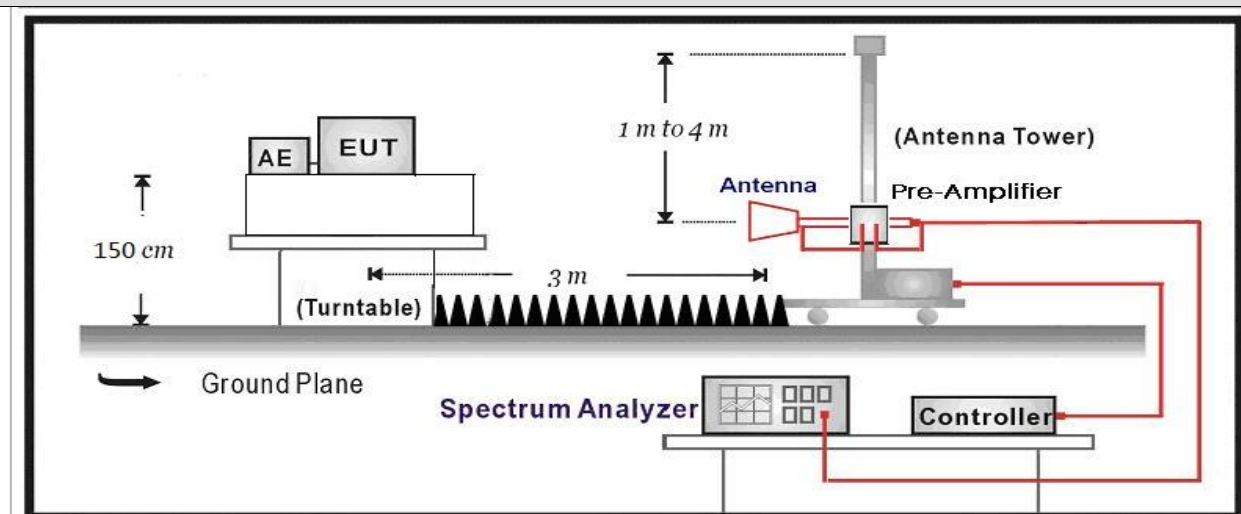
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:

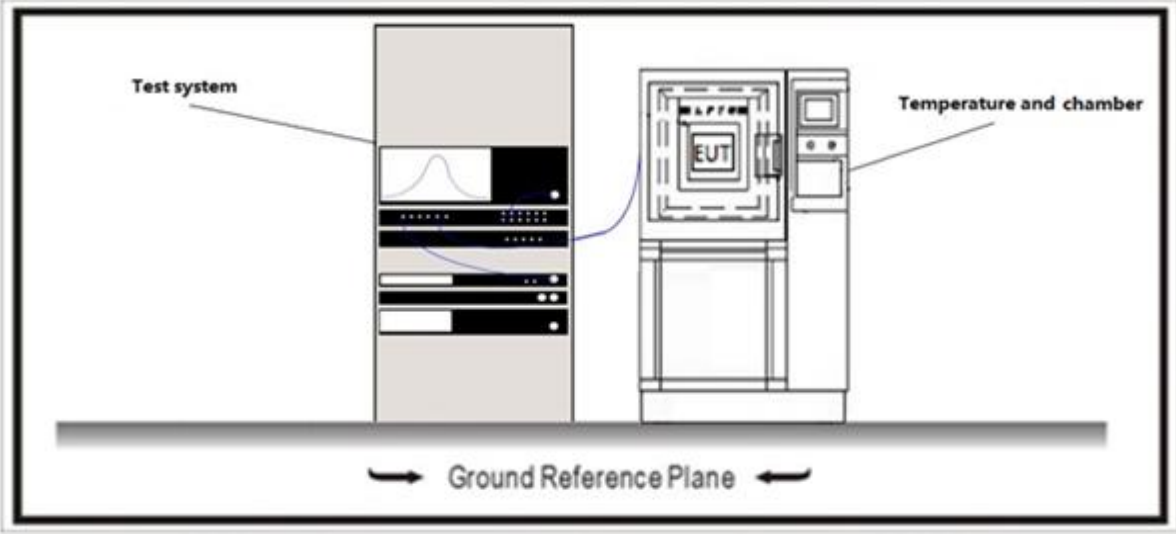


4.1.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	6.3	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10	11.12.2	Antenna-port conducted measurements
	☐	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	☐	ANSI C63.10	11.12.2.4	Peak power measurement procedure
	☐	ANSI C63.10	11.12.2.5	Average power measurement procedures
	☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	☐	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

4.2 Emissions in non-restricted frequency band	VERDICT: PASS
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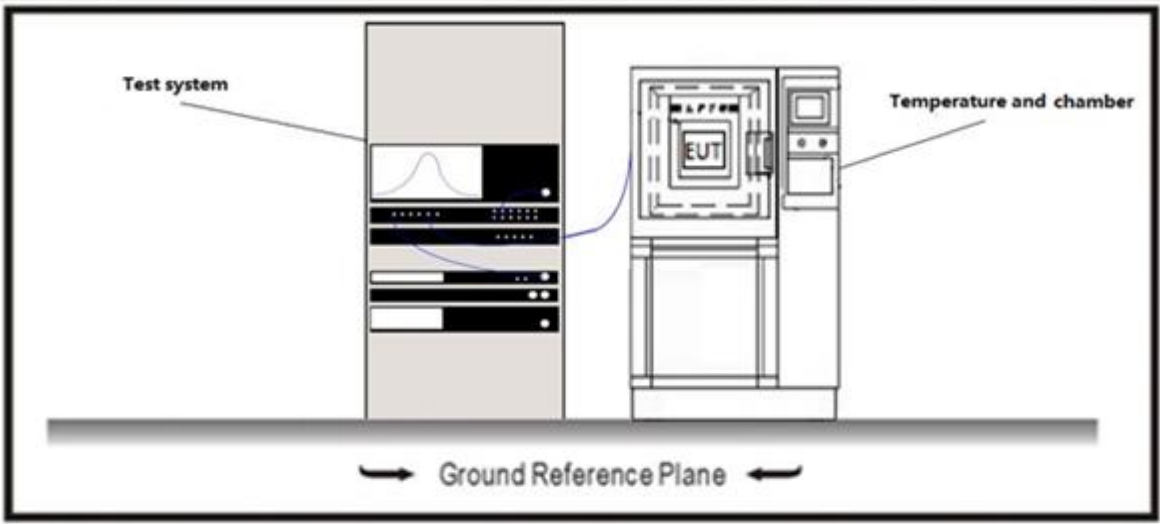
4.2.1 Limit	
Standard	FCC Part 15 Subpart C Paragraph 15.247(d).
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc). Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).	

4.2.2 Test Setup
 The diagram illustrates the test setup. On the left, a 'Test system' is shown, which includes a spectrum analyzer and other electronic equipment. On the right, a 'Temperature and chamber' is depicted, which is a large environmental test chamber. Both the test system and the chamber are placed on a 'Ground Reference Plane', indicated by a horizontal line with arrows at both ends. A cable connects the test system to the chamber, and the chamber's door is open, revealing the internal test environment.

4.2.3 Test Procedure			
References Rule		Chapter	Description
☒	ANSI C63.10	11.11	Emissions in non-restricted frequency bands
☒	ANSI C63.10	11.11.1	General
☒	ANSI C63.10	11.11.2	Reference level measurement
☒	ANSI C63.10	11.11.3	Emission level measurement

4.3 Duty cycle	VERDICT: PASS
----------------	---------------

4.3.1 Limit
N/A

4.3.2 Test Setup


4.3.3 Test Procedure			
References Rule		Chapter	Description
☒	ANSI C63.10	11.6	Duty cycle (D), transmission duration (T), and maximum power control level

4.4 Radiated Emission Band Edge

VERDICT: PASS

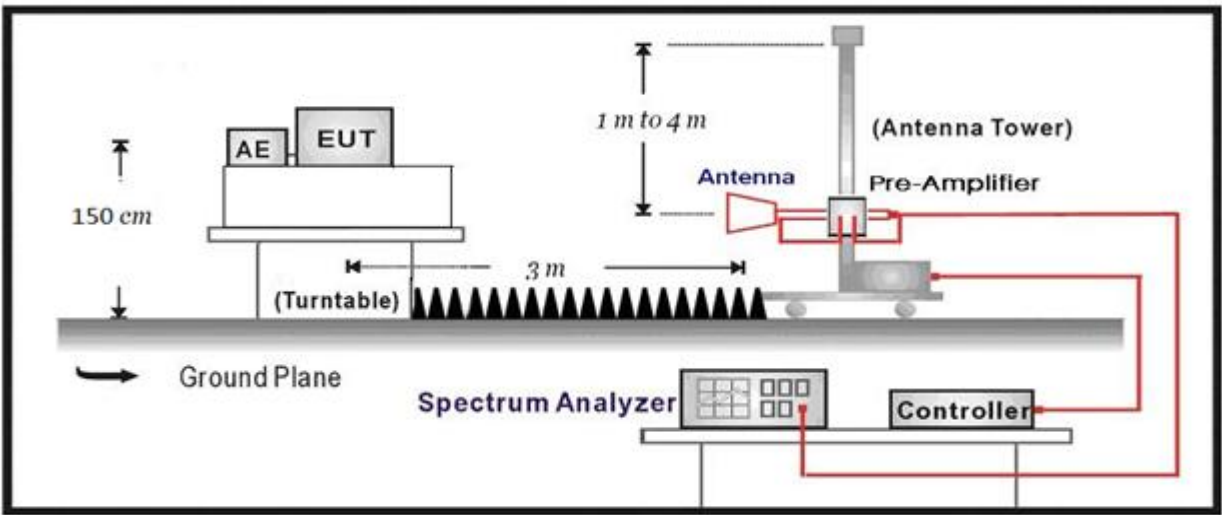
4.4.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.205, 15.209		
Frequency bands (MHz)	Detector	Limit (dBμV/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.4.2 Test Setup

Above 1GHz Test Setup:



4.4.3 Test Procedure			
	References Rule	Chapter	Description
☒	ANSI C63.10	6.10	Band-edge testing
	☒ ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	☐ ANSI C63.10	6.10.6	Marker-delta method
☒	ANSI C63.10	11.12	Emissions in restricted frequency bands
	☒ ANSI C63.10	11.12.1	Radiated emission measurements
	☒ ANSI C63.10	6.3	Radiated spurious emission test
☐	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

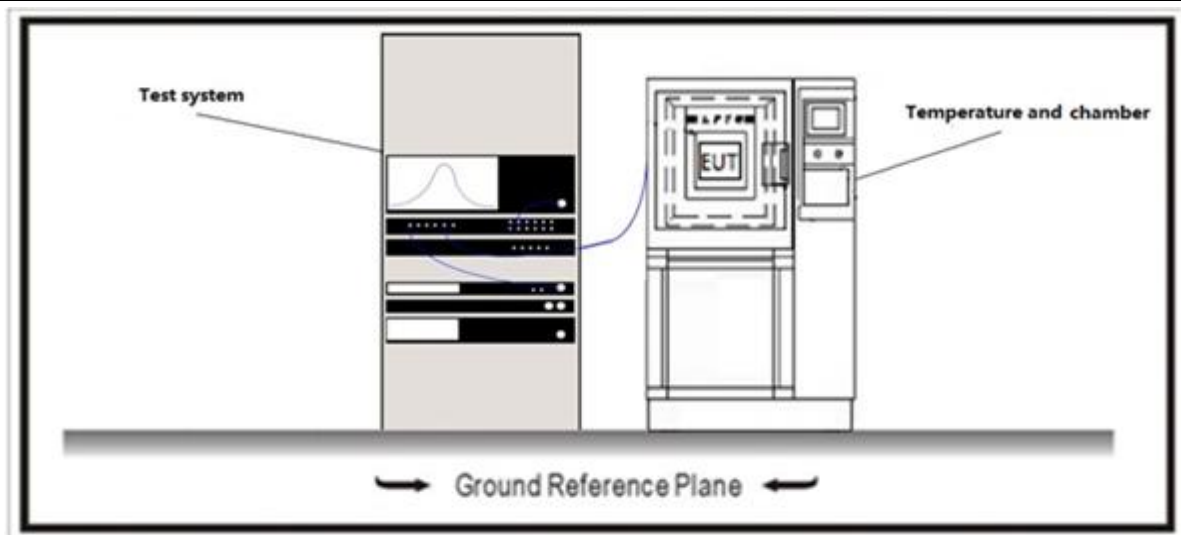
4.5 DTS Bandwidth**VERDICT: PASS****4.5.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2)
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Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

Standard	ANSI C63.10 Paragraph 6.7
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The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. The occupied bandwidth should be within the required frequency range.

4.5.2 Test Setup**4.5.3 Test Procedure**

	Reference Rule	Chapter	Description
☒	ANSI C63.10	11.8	DTS bandwidth
☐	ANSI C63.10	11.8.1	Option 1
☒	ANSI C63.10	11.8.2	Option 2
☒	ANSI C63.10	6.9	Occupied bandwidth
☐	ANSI C63.10	6.9.2	relative measurement procedure
☒	ANSI C63.10	6.9.3	power bandwidth (99%) measurement procedure

4.6 Fundamental emission output power

VERDICT: PASS

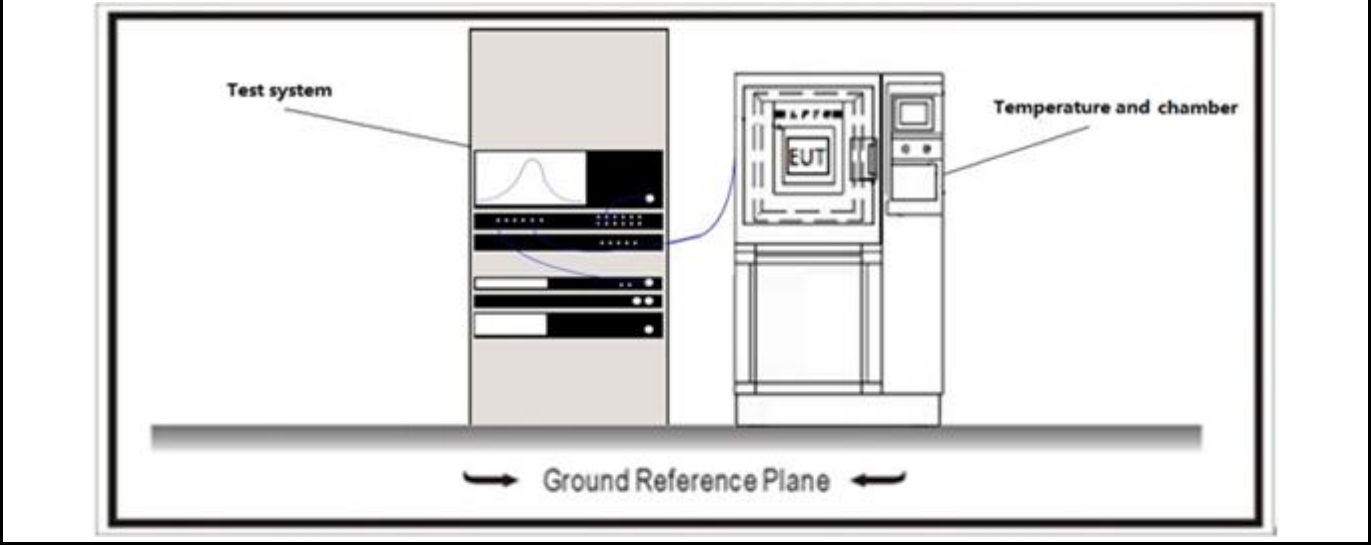
4.6.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3)
☒	GTX <6dBi	Pout≤30dBm
☐	GTX >6dBi	
☐	Non-Fix point-point	Pout≤30-(GTX -6)
☐	Fix point-point	Pout≤30-[(GTX-6)]/3
☐	Point-to-multipoint	Pout≤30-(GTX-6)
☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
☐	Avgregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
☐	single directional beam	Pout≤30-[(GTX-6)]/3+8dB

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum conducted output power .

4.6.2 Test Setup



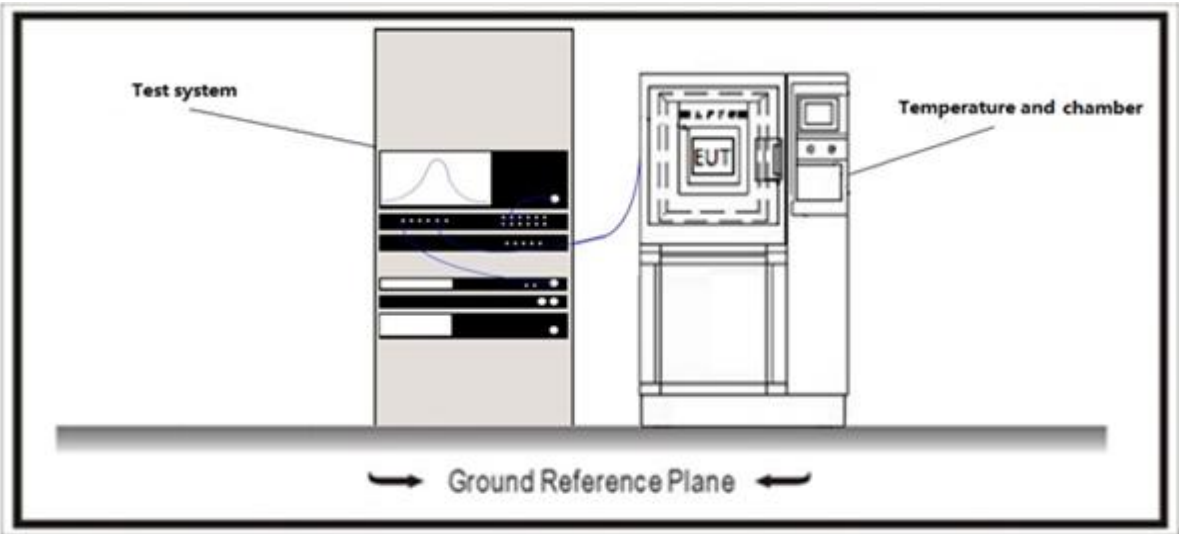
4.6.3 Test Procedure				
	References Rule		Chapter	Description
☒	ANSI C63.10		11.9	Fundamental emission output power
	☒	ANSI C63.10		Maximum peak conducted output power
	☐	☐	ANSI C63.10	11.9.1.1 RBW ≥ DTS bandwidth
		☐	ANSI C63.10	11.9.1.2 Integrated band power method
		☒	ANSI C63.10	11.9.1.3 PKPM1 Peak power meter method
	☒	ANSI C63.10		Maximum conducted (average) output power
	☐	☐	ANSI C63.10	11.9.2.2 Measurement using a spectrum analyzer (SA)
		☐	ANSI C63.10	11.9.2.2.2 Method AVGSA-1(Duty cycle≥98%)
		☐	ANSI C63.10	11.9.2.2.3 Method AVGSA-1A(Duty cycle≥98%)
		☐	ANSI C63.10	11.9.2.2.4 Method AVGSA-2(Duty cycle≤98%)
		☐	ANSI C63.10	11.9.2.2.5 Method AVGSA-2A(Duty cycle≤98%)
		☐	ANSI C63.10	11.9.2.2.4 Method AVGSA-3
		☐	ANSI C63.10	11.9.2.2.5 Method AVGSA-3A
		☒	ANSI C63.10	11.9.2.3 Measurement using a power meter (PM)
		☒	ANSI C63.10	11.9.2.3.1 Method AVGPM
		☐	ANSI C63.10	11.9.2.3.2 Method AVGPM-G

Directional Gain Calculations for In-Band test method

	References Rule	Chapter	Description
☐	KDB 662911	F2)a)	Basic methodology
	☐ KDB 662911	F2)a) (i)	transmit signals are correlated
	☐ KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911	F2)b)	Sectorized antenna systems.
☐	KDB 662911	F2)c)	Cross-polarized antennas
	☐ ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐ ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911	F2)e)	Spatial stream
	☐ KDB 662911	F2)e) (i)	Antennas have the same gain
	☐ KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐ KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911	F2)f)	Cyclic Delay Diversity (CDD)
	☐ KDB 662911	F2)f) (i)	Antennas have the same gain
	☐ KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☒ KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

4.7 Power Density	VERDICT: PASS
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4.7.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.247 (e)
Power Spectral Density≤8dBm/3kHz	

4.7.2 Test Setup


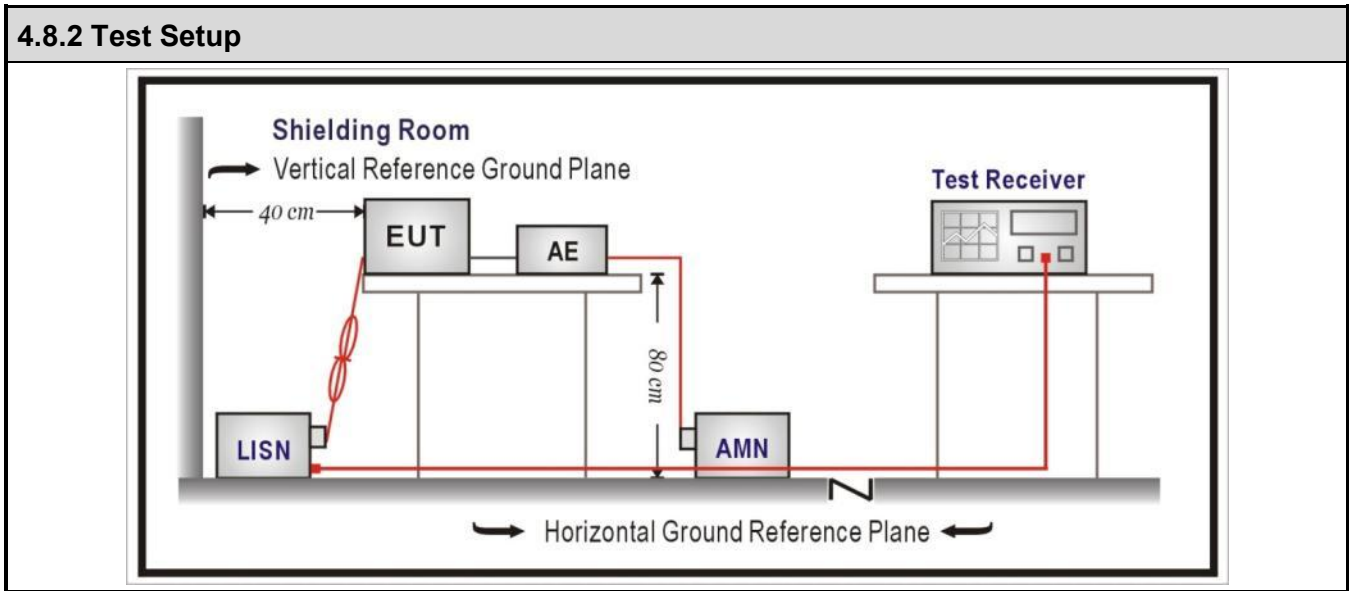
4.7.3 Test Procedure			
	References Rule	Chapter	Description
☒	ANSI C63.10	11.10	Maximum power spectral density level in the fundamental emission
	☒ ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☐ ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle≥98%)
	☐ ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle≥98%)
	☐ ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle<98%)
	☐ ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle<98%)
	☐ ANSI C63.10	11.10.7	Method AVGPSD-3
	☐ ANSI C63.10	11.10.8	Method AVGPSD-3A

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☒	KDB 662911		E)2)	In-Band Power Spectral Density (PSD) Measurements
	☐	KDB 662911	E)2)a)	Measure and sum the spectra across the outputs.
	☐	KDB 662911	E)2)b)	Measure and sum spectral maxima across the outputs.
	☒	KDB 662911	E)2)c)	Measure and add 10 log(NANT) dB, where NANT is the number of outputs.
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)e)	Spatial stream
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☐	KDB 662911	F2)f) (i)	Antennas have the same gain
	☒	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

4.8 AC Power Line Conducted Emission	VERDICT: N/A
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4.8.1 Limit		
Standard	FCC Part 15 Subpart C Paragraph 15.207 ;	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 – 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

¹⁾ At the transition frequency, the lower limit applies.
²⁾ The limit decreases linearly with the logarithm of the frequency.
NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.
NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.



4.8.3 Test Procedure			
	References Rule	Chapter	Item
☐	ANSI C63.10	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.9 Antenna Requirement**VERDICT: PASS****4.9.1 Limit:****Standard**

FCC Part 15 Subpart C Paragraph 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.9.2 Antenna Connector Construction:

- | | |
|-------------------------------------|--|
| ☒ | The use of a permanently attached antenna |
| ☒ | The antenna use of a unique coupling to the intentional radiator |
| ☐ | The use of a nonstandard antenna jack or electrical connector |

Please refer to the attached document "Internal Photograph" to show the antenna connector.

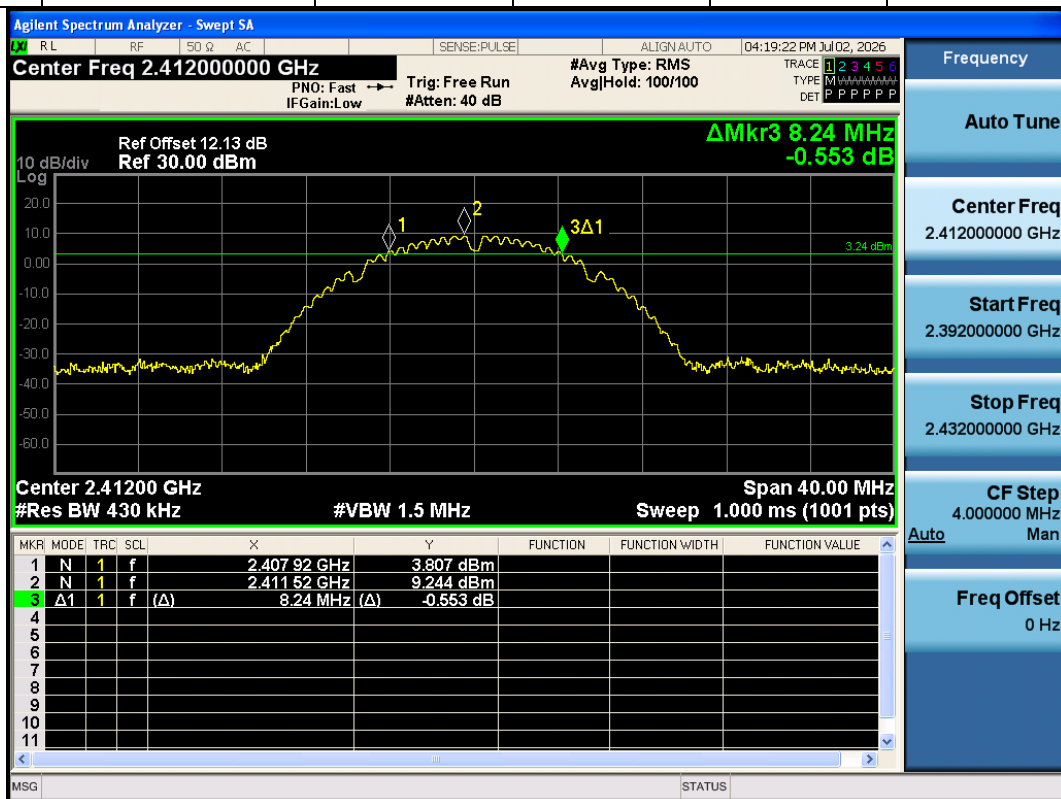
5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT

Appendix A: DTS Bandwidth

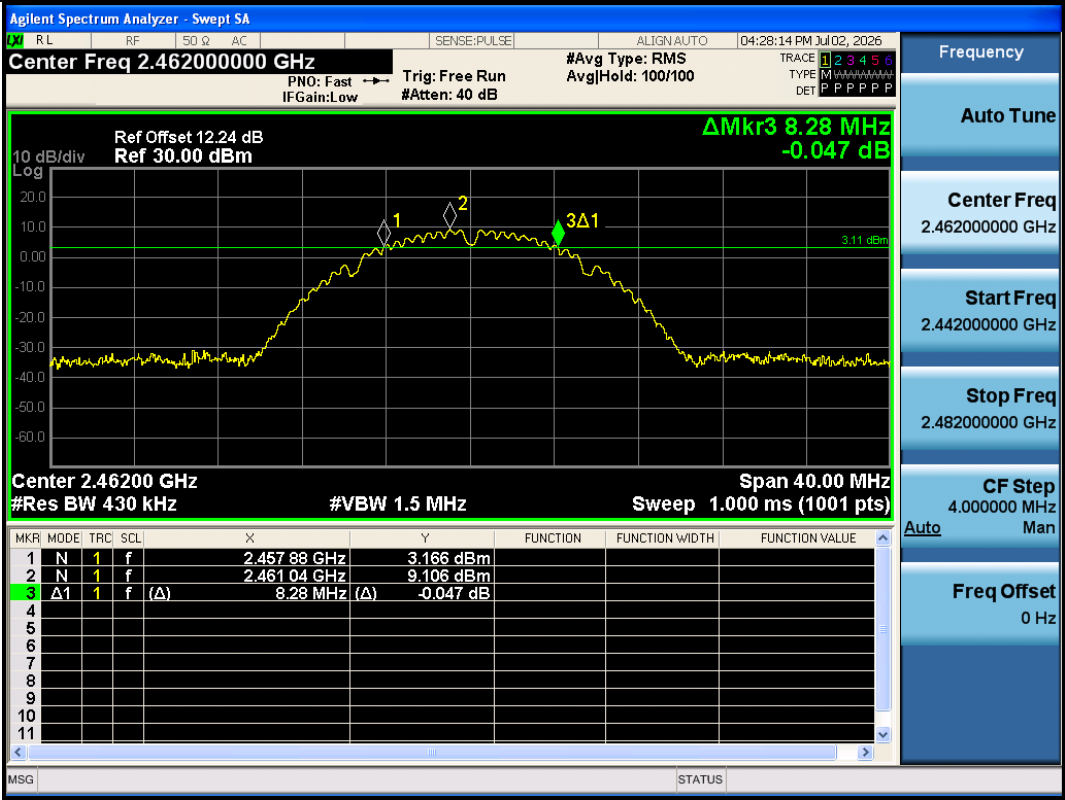
TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	8.240	2407.920	2416.160	0.5	PASS
11B	2437	8.240	2432.920	2441.160	0.5	PASS
11B	2462	8.280	2457.880	2466.160	0.5	PASS
11G	2412	15.760	2404.400	2420.160	0.5	PASS
11G	2437	15.960	2428.880	2444.840	0.5	PASS
11G	2462	16.240	2453.960	2470.200	0.5	PASS
11N20	2412	16.320	2404.160	2420.480	0.5	PASS
11N20	2437	17.280	2428.320	2445.600	0.5	PASS
11N20	2462	17.520	2453.240	2470.760	0.5	PASS
11N40	2422	35.600	2404.240	2439.840	0.5	PASS
11N40	2437	35.680	2419.240	2454.920	0.5	PASS
11N40	2452	35.360	2434.400	2469.760	0.5	PASS
11AX20	2412	17.800	2402.880	2420.680	0.5	PASS
11AX20	2437	18.440	2427.840	2446.280	0.5	PASS
11AX20	2462	18.120	2453.120	2471.240	0.5	PASS
11AX40	2422	35.600	2403.680	2439.280	0.5	PASS
11AX40	2437	34.160	2419.480	2453.640	0.5	PASS
11AX40	2452	36.880	2433.440	2470.320	0.5	PASS



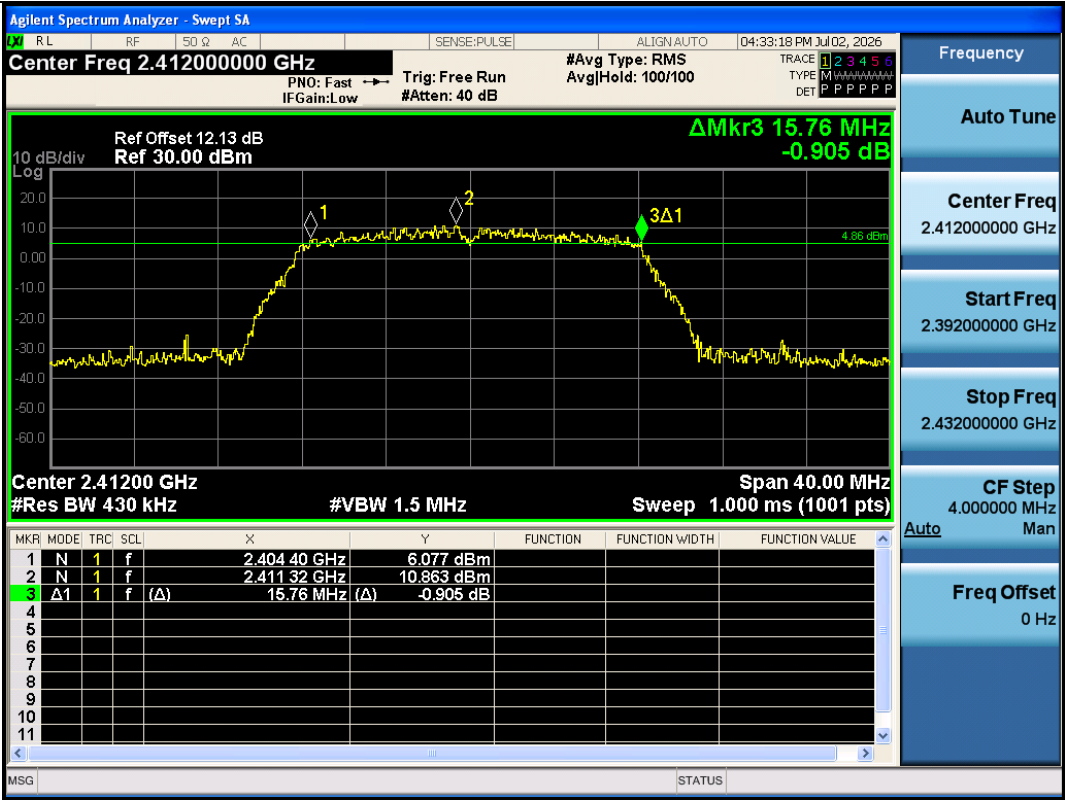
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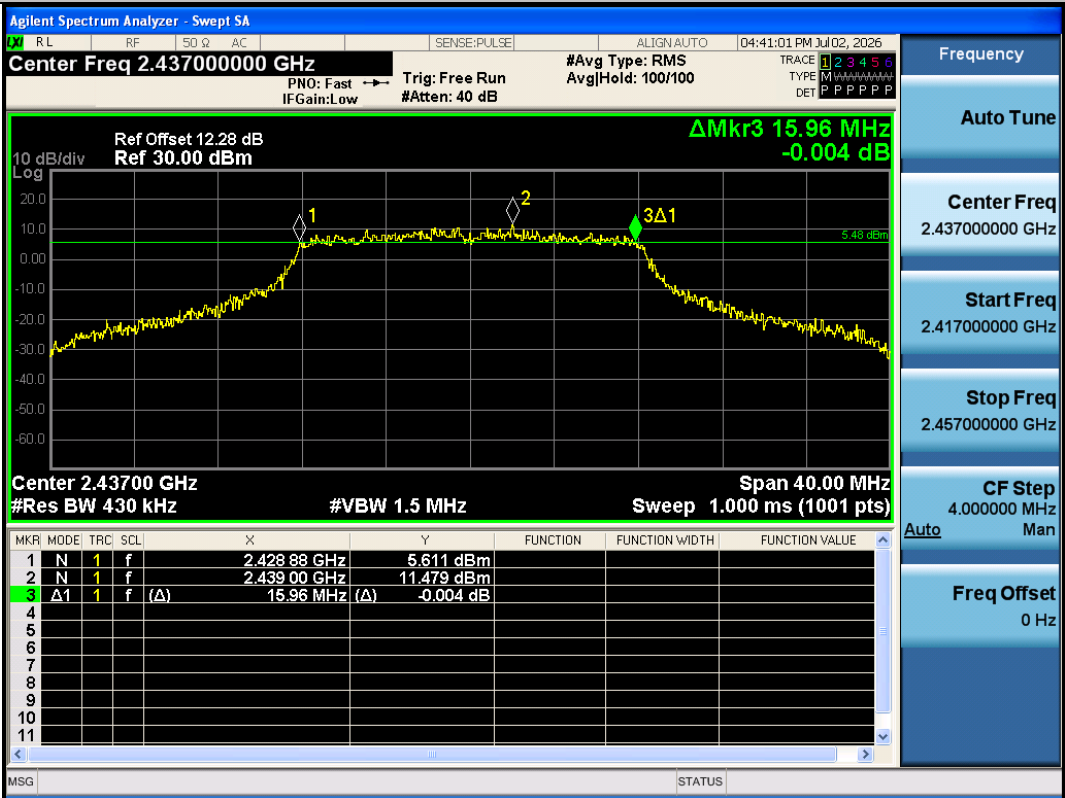
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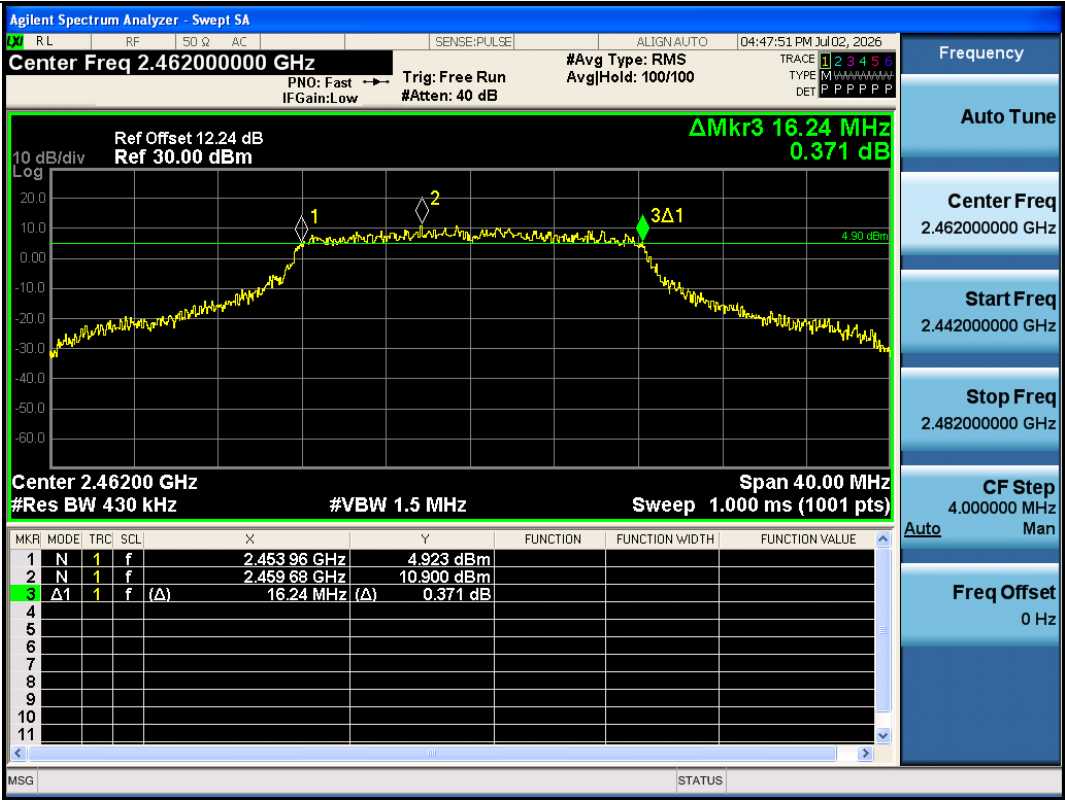
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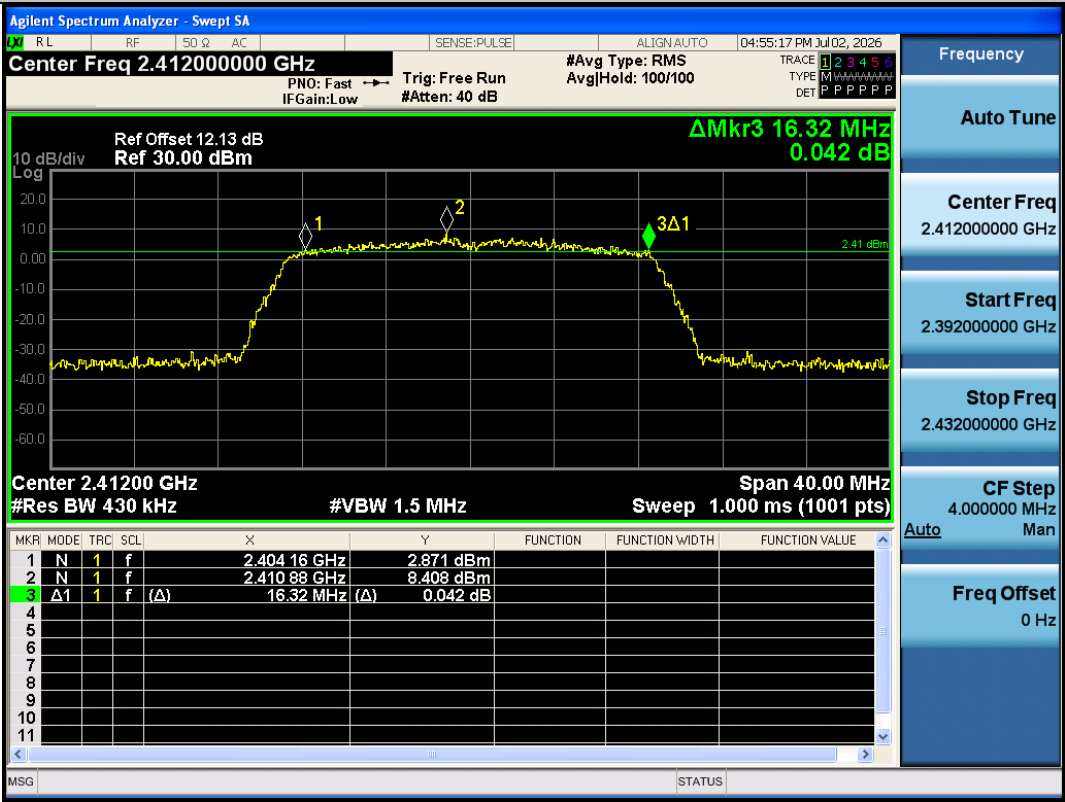
11G-2412-PASS



11G-2437-PASS



11G-2462-PASS



11N20-2412-PASS



11N20-2437-PASS



11N20-2462-PASS



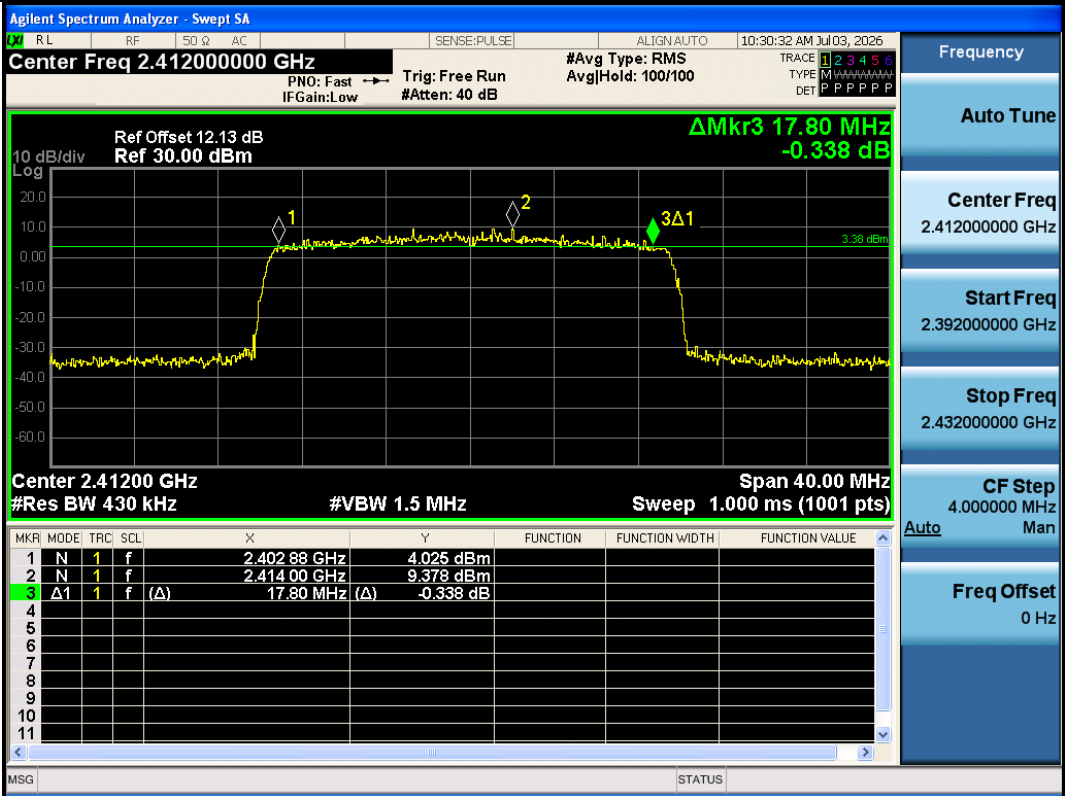
11N40-2422-PASS



11N40-2437-PASS



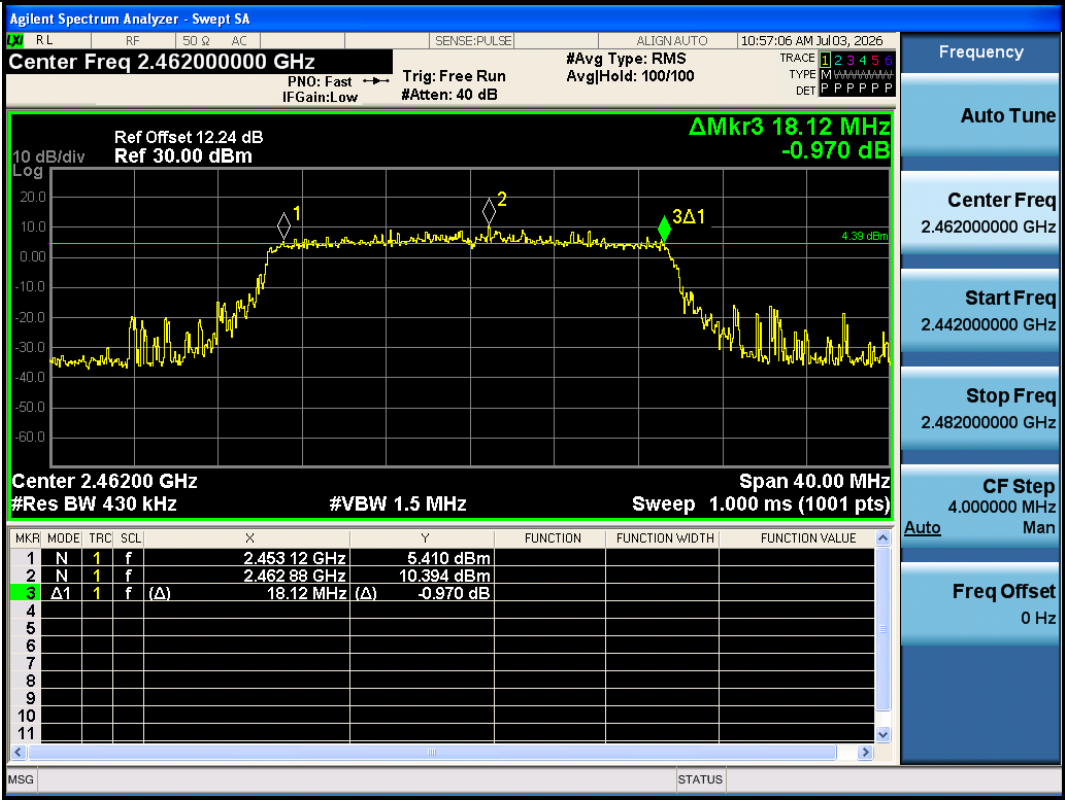
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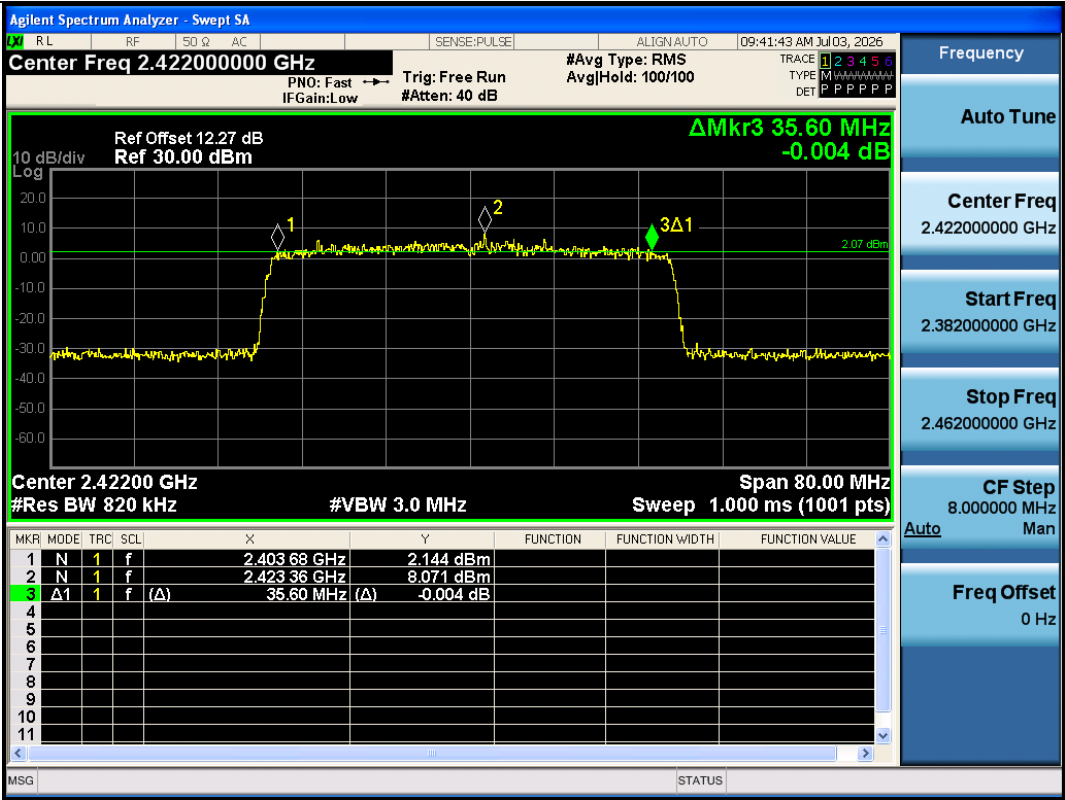
11AX20-2412-PASS



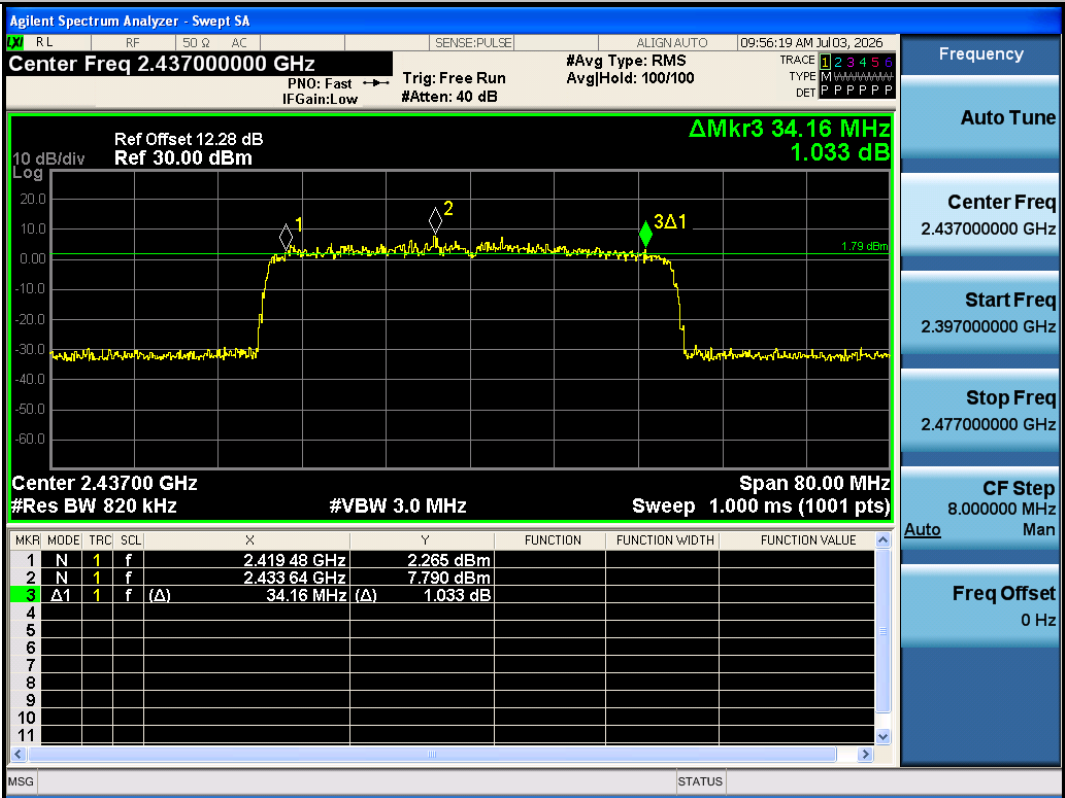
11AX20-2437-PASS



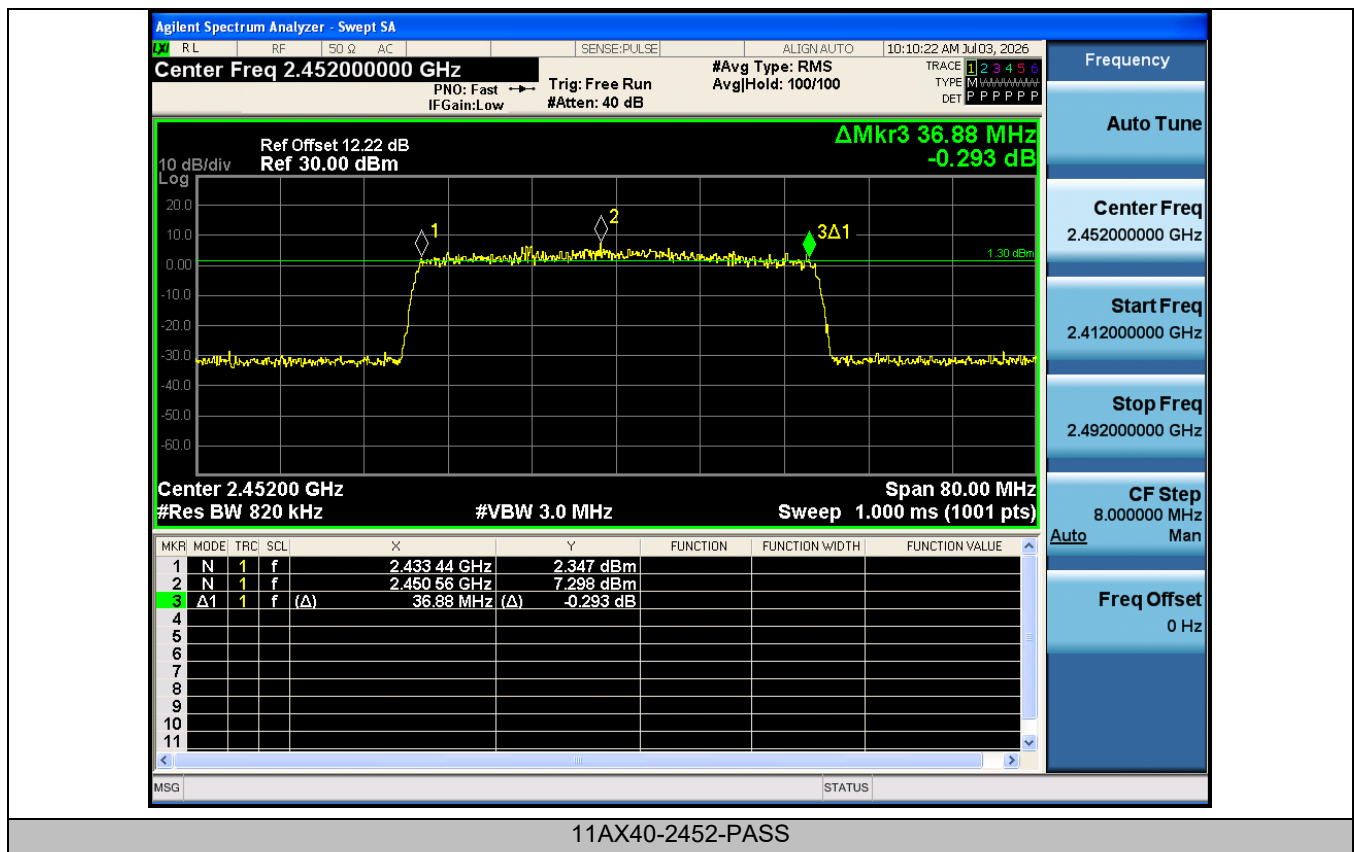
11AX20-2462-PASS



11AX40-2422-PASS



11AX40-2437-PASS



Appendix B: Maximum conducted output power

Mode	Channel	Frequency (MHz)	Conducted power (dBm)			Limit (dBm)	Result
			Ant 1	Ant 2	Ant 1+2		
802.11b 1Mbps	1	2412	14.22	16.57	N/A	30	Pass
	6	2437	14.06	16.41		30	Pass
	11	2462	14.02	16.54		30	Pass
802.11g 6Mbps	1	2412	14.56	16.62		30	Pass
	6	2437	14.42	16.47		30	Pass
	11	2462	11.87	14.25		30	Pass
802.11n-HT20 MCS0	1	2412	10.53	12.91	14.89	30	Pass
	6	2437	11.71	13.83	15.91	30	Pass
	11	2462	10.62	13.02	14.99	30	Pass
802.11n-HT40 MCS0	3	2422	10.63	12.95	14.95	30	Pass
	6	2437	10.56	12.80	14.83	30	Pass
	9	2452	10.49	12.91	14.88	30	Pass
802.11ax-HE20 MCS0	1	2412	11.27	12.54	14.96	30	Pass
	6	2437	11.72	13.78	15.88	30	Pass
	11	2462	10.25	12.41	14.47	30	Pass
802.11ax-HE40 MCS0	3	2422	10.39	12.97	14.88	30	Pass
	6	2437	10.43	12.84	14.81	30	Pass
	9	2452	10.35	12.78	14.74	30	Pass
802.11ax-HE20 RU26-0	1	2412	6.59	7.24	9.94	30	Pass
	6	2437	6.72	7.35	10.06	30	Pass
	11	2462	6.56	7.12	9.86	30	Pass
802.11ax-HE20 RU26-8	1	2412	6.84	7.48	10.18	30	Pass
	6	2437	6.85	7.61	10.26	30	Pass
	11	2462	6.88	7.54	10.23	30	Pass
802.11ax-HE20 RU52-37	1	2412	9.31	10.18	12.78	30	Pass
	6	2437	8.59	9.02	11.82	30	Pass
	11	2462	8.67	9.05	11.87	30	Pass
802.11ax-HE20 RU52-40	1	2412	9.63	10.56	13.13	30	Pass
	6	2437	8.83	9.47	12.17	30	Pass
	11	2462	8.85	9.44	12.17	30	Pass
802.11ax-HE20 RU106-53	1	2412	9.69	10.83	13.31	30	Pass
	6	2437	9.45	10.75	13.16	30	Pass
	11	2462	10.57	11.79	14.23	30	Pass
802.11ax-HE20 RU106-54	1	2412	9.98	10.99	13.52	30	Pass
	6	2437	9.82	10.95	13.43	30	Pass
	11	2462	10.87	11.92	14.44	30	Pass



802.11ax-HE40 RU242-61	3	2422	9.78	10.47	13.15	30	Pass
	6	2437	9.64	10.42	13.06	30	Pass
	9	2452	9.65	10.36	13.03	30	Pass
802.11ax-HE40 RU242-62	3	2422	10.01	10.61	13.33	30	Pass
	6	2437	9.89	10.58	13.26	30	Pass
	9	2452	9.82	10.52	13.19	30	Pass

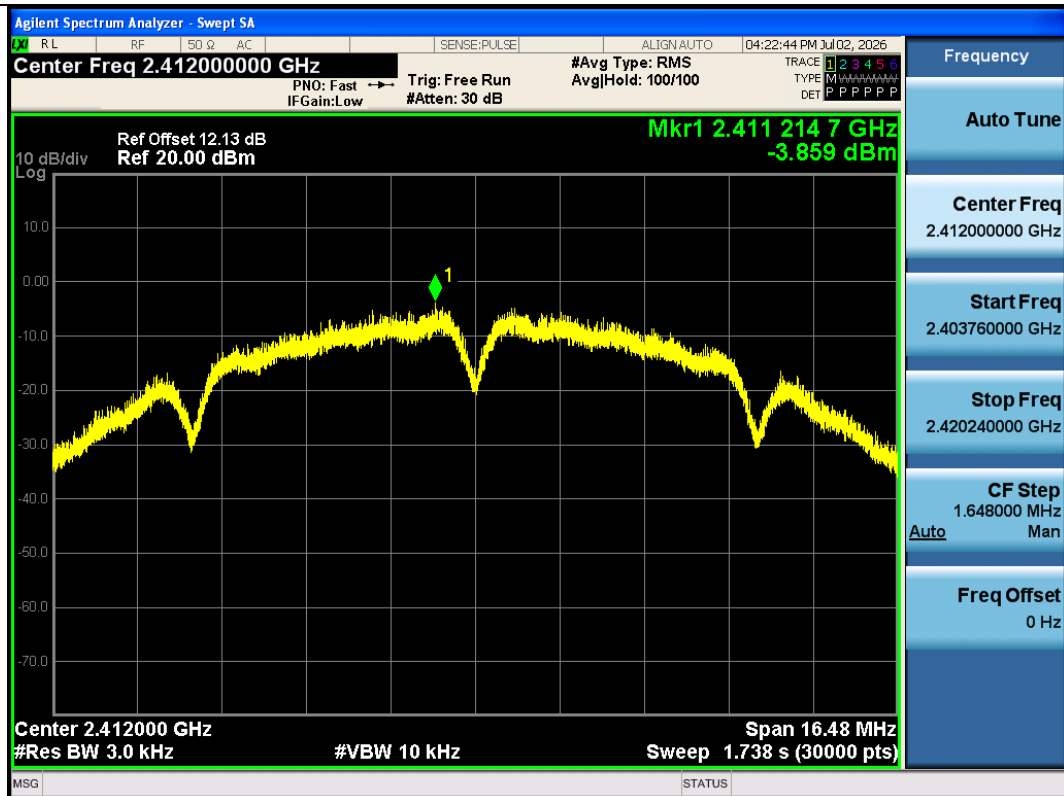
Appendix C: Maximum power spectral density

TestMode	Frequency[MHz]	Result[dBm/3kHz]		Limit[dBm/3kHz]		Verdict
		SISO	MIMO	SISO	MIMO	
11B	2412	-3.86	N/A	≤8.00	N/A	PASS
11B	2437	-4.79		≤8.00		PASS
11B	2462	-4.21		≤8.00		PASS
11G	2412	-6.95		≤8.00		PASS
11G	2437	-6.83		≤8.00		PASS
11G	2462	-5.60		≤8.00		PASS
11N20	2412	-7.56	-4.55	≤8.00	≤7.27	PASS
11N20	2437	-8.10	-5.09	≤8.00	≤7.27	PASS
11N20	2462	-9.18	-6.17	≤8.00	≤7.27	PASS
11N40	2422	-14.23	-11.22	≤8.00	≤7.27	PASS
11N40	2437	-14.46	-11.45	≤8.00	≤7.27	PASS
11N40	2452	-13.81	-10.8	≤8.00	≤7.27	PASS
11AX20	2412	-9.72	-6.71	≤8.00	≤7.27	PASS
11AX20	2437	-10.34	-7.33	≤8.00	≤7.27	PASS
11AX20	2462	-10.07	-7.06	≤8.00	≤7.27	PASS
11AX40	2422	-15.15	-12.14	≤8.00	≤7.27	PASS
11AX40	2437	-14.81	-11.8	≤8.00	≤7.27	PASS
11AX40	2452	-15.92	-12.91	≤8.00	≤7.27	PASS

Note1: MIMO Limit = 8dBm/3kHz - (6 dBi - 6.73dBi).

Note2: For SISO mode, we evaluated WIFI0 and WIFI1. Since WIFI1 has higher output power, the test data is based on WIFI1.

Note3: CDD PSD = SISO PSD + 10*Log(N), N = Antenna number.



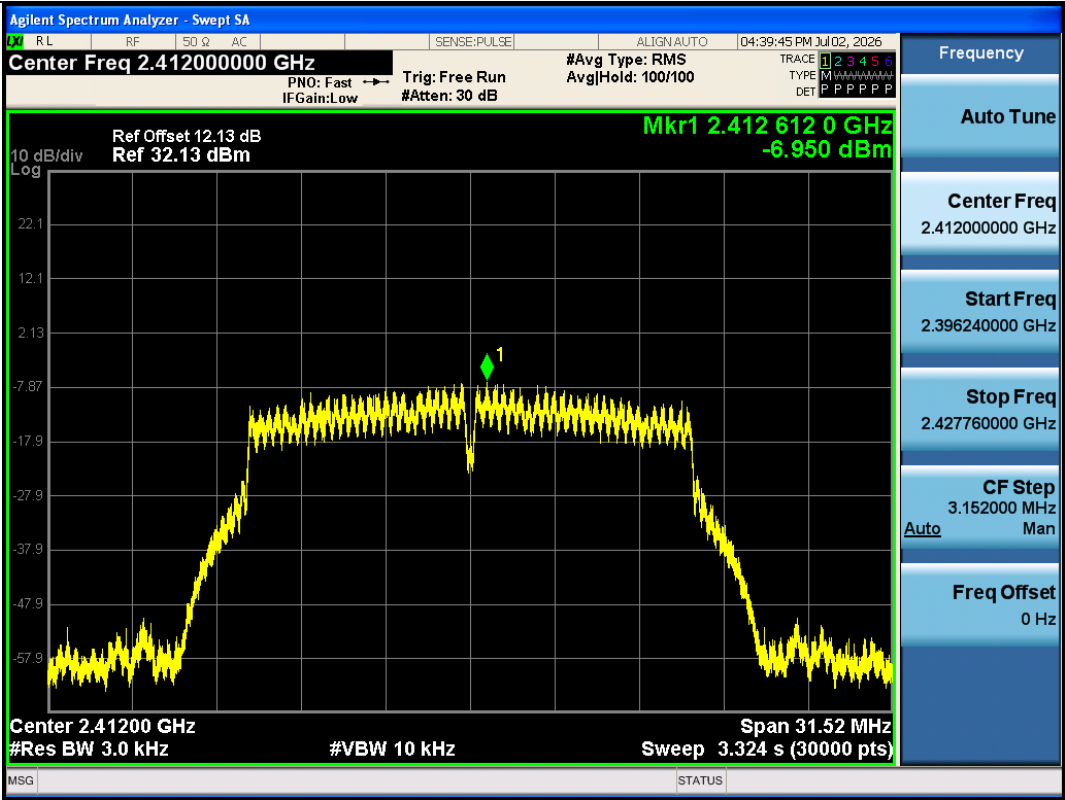
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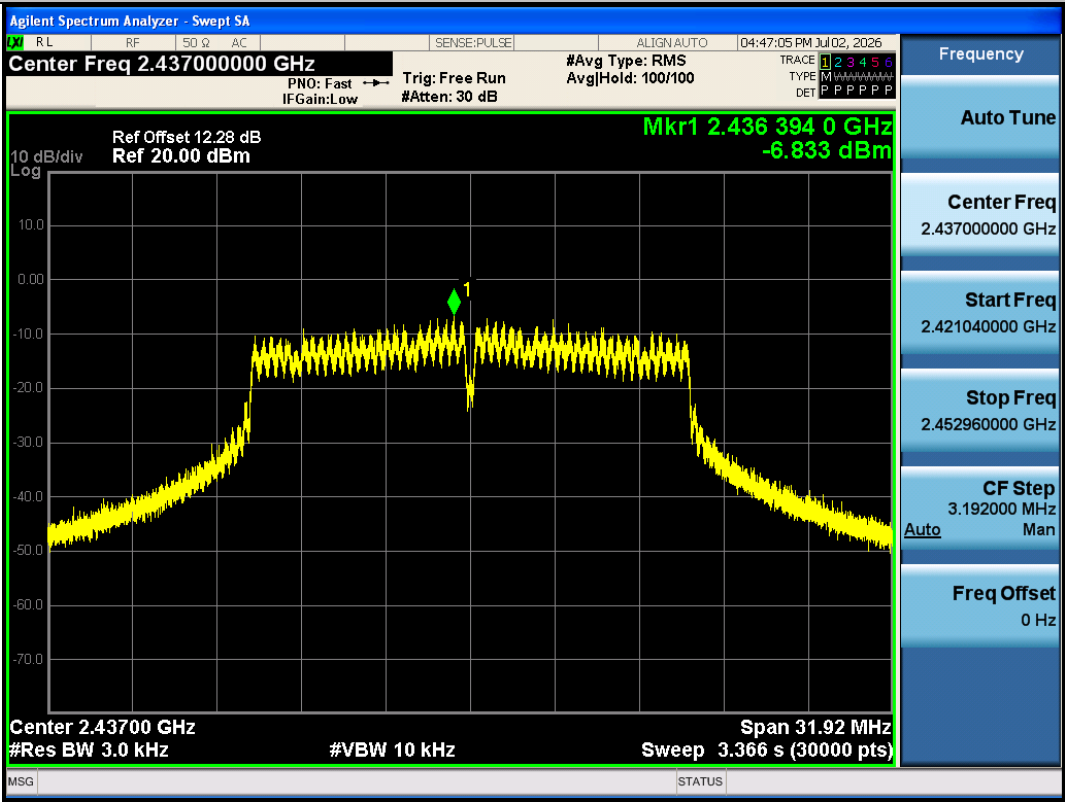
11B-2437-PASS



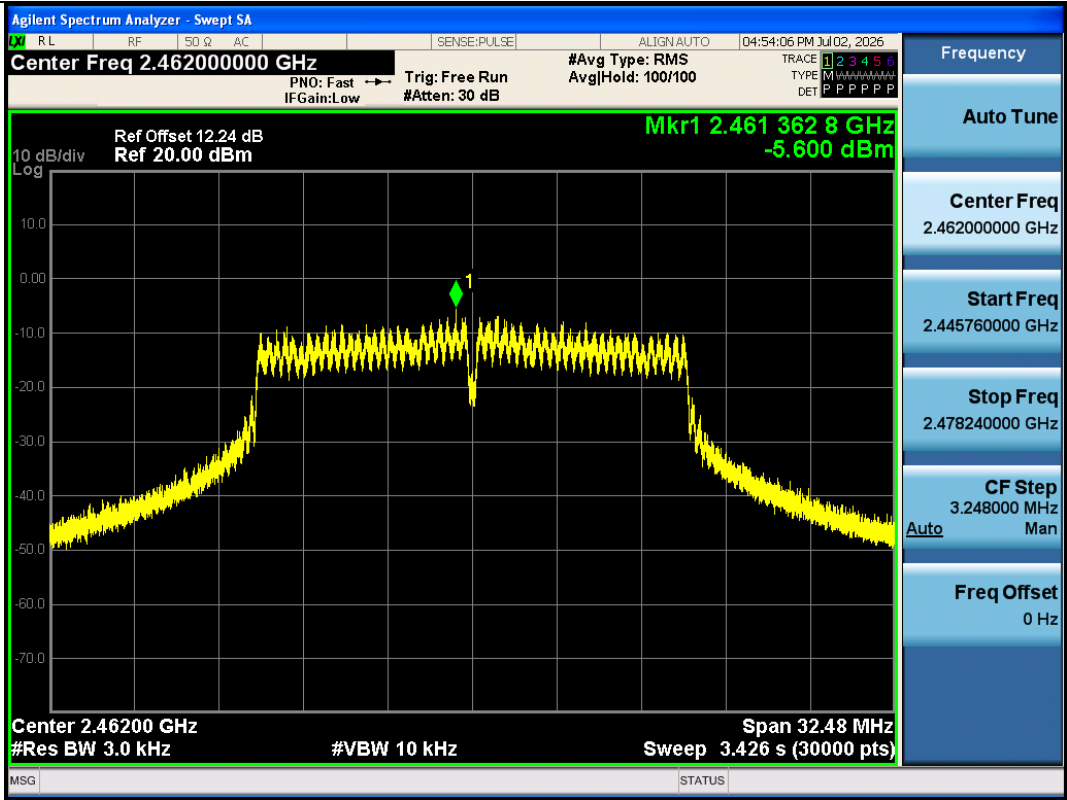
11B-2462-PASS



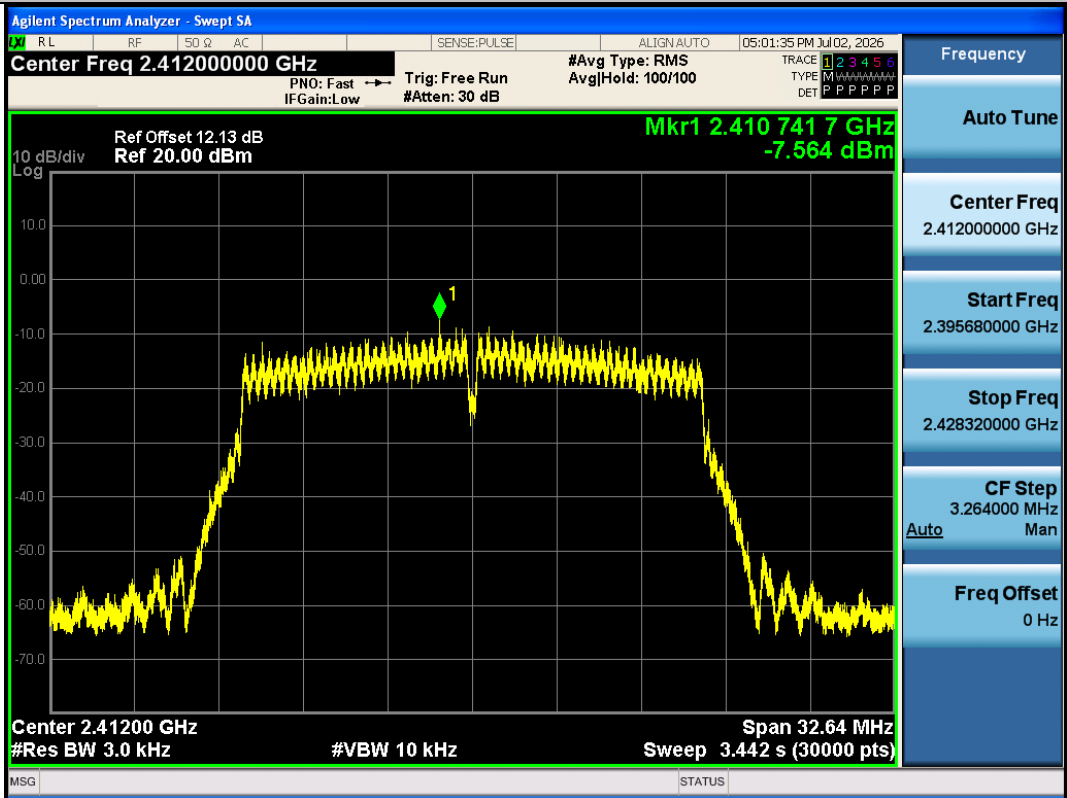
11G-2412-PASS



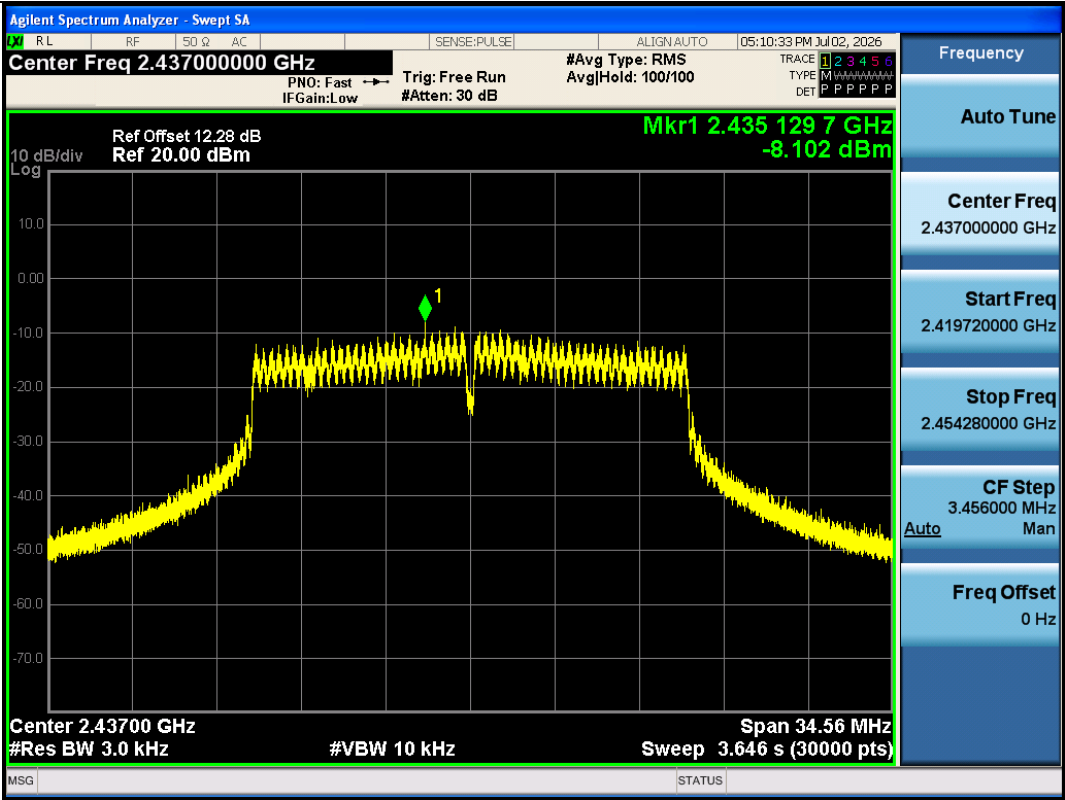
11G-2437-PASS



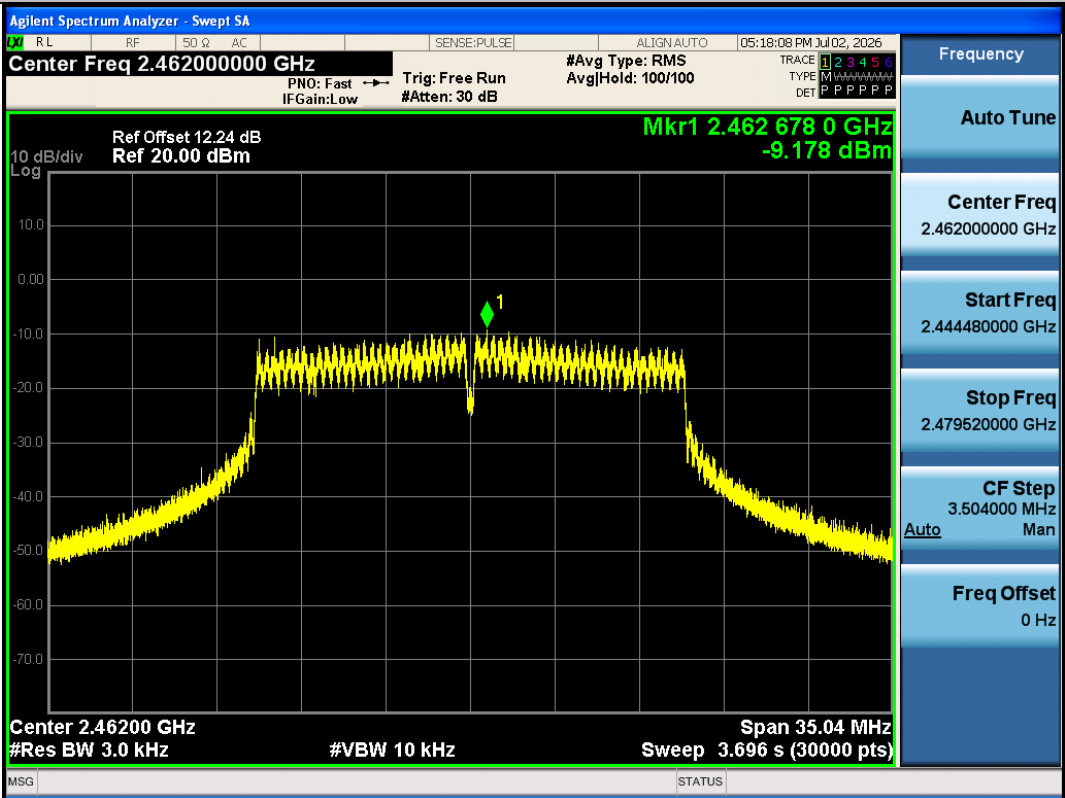
11G-2462-PASS



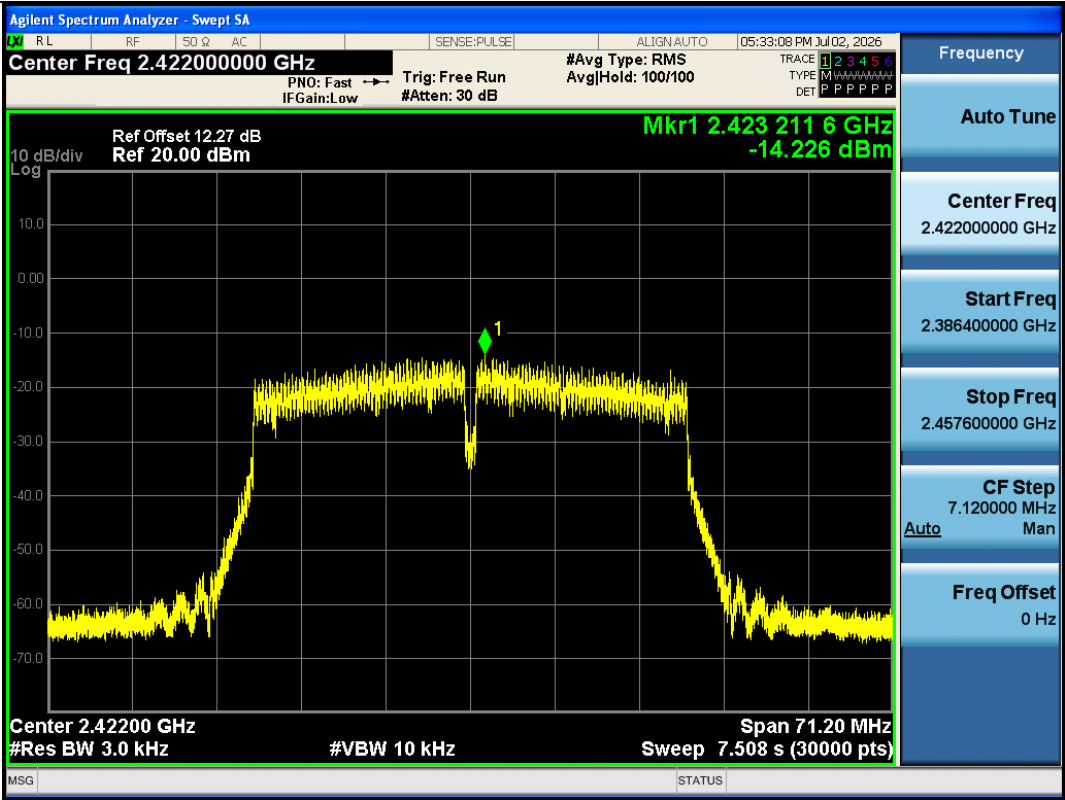
11N20-2412-PASS



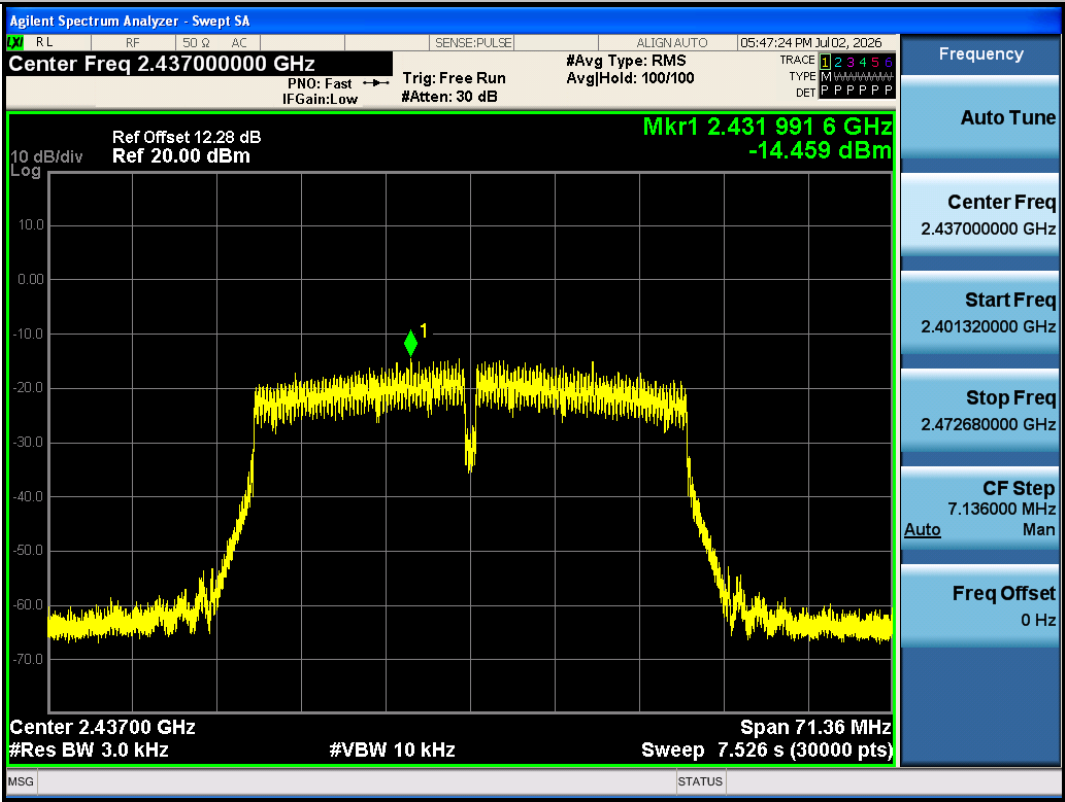
11N20-2437-PASS



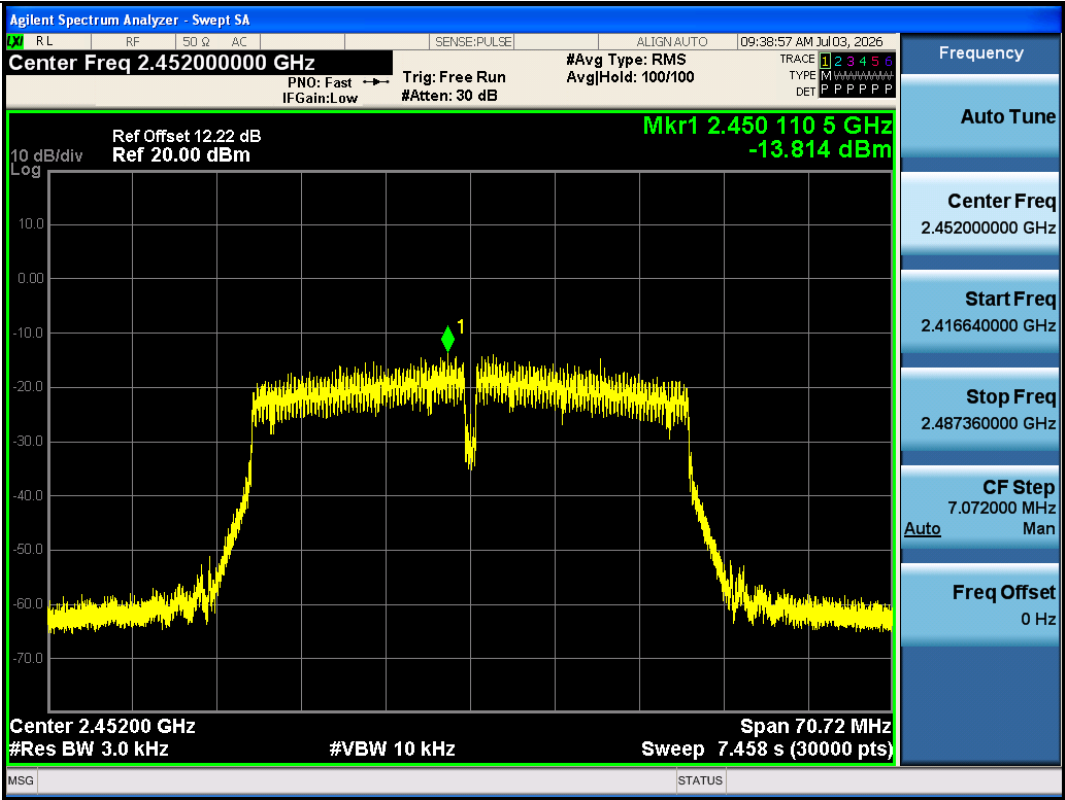
11N20-2462-PASS



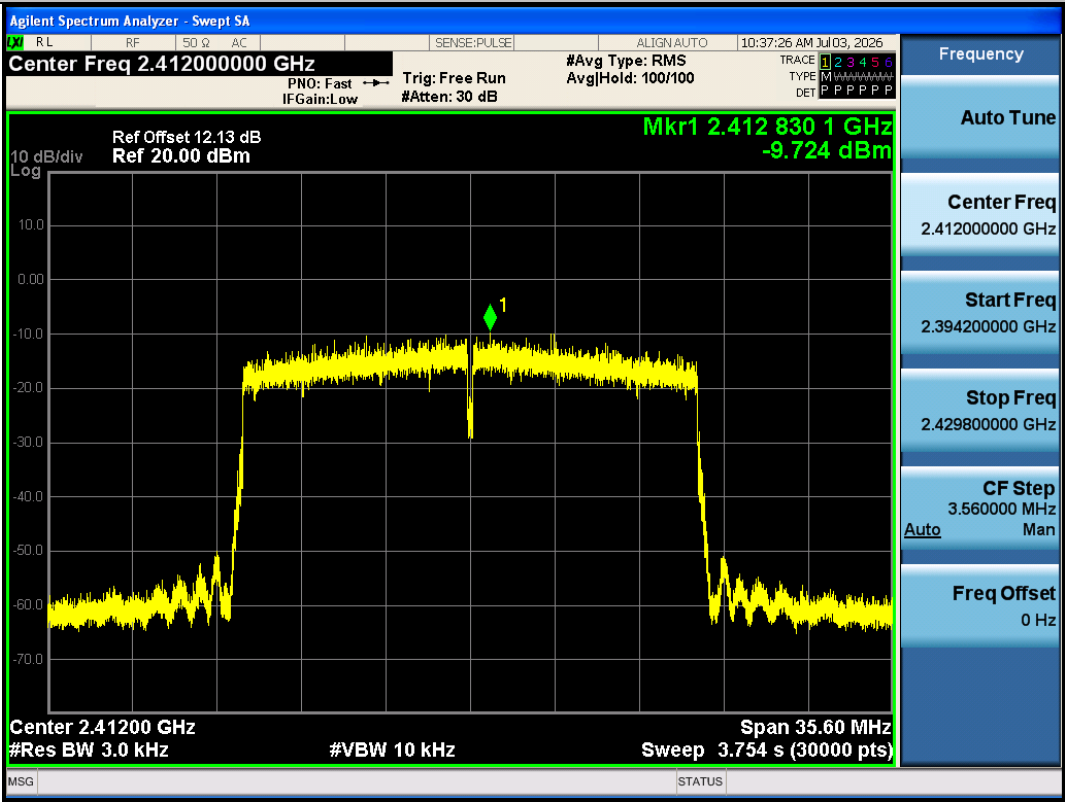
11N40-2422-PASS



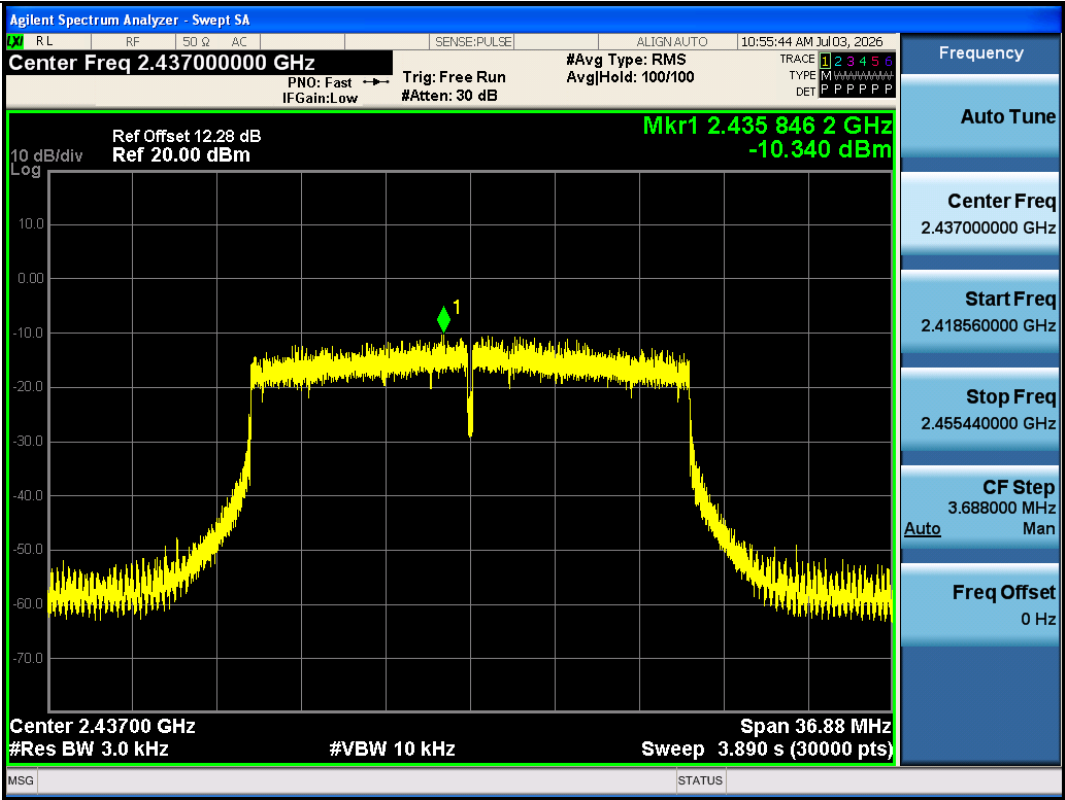
11N40-2437-PASS



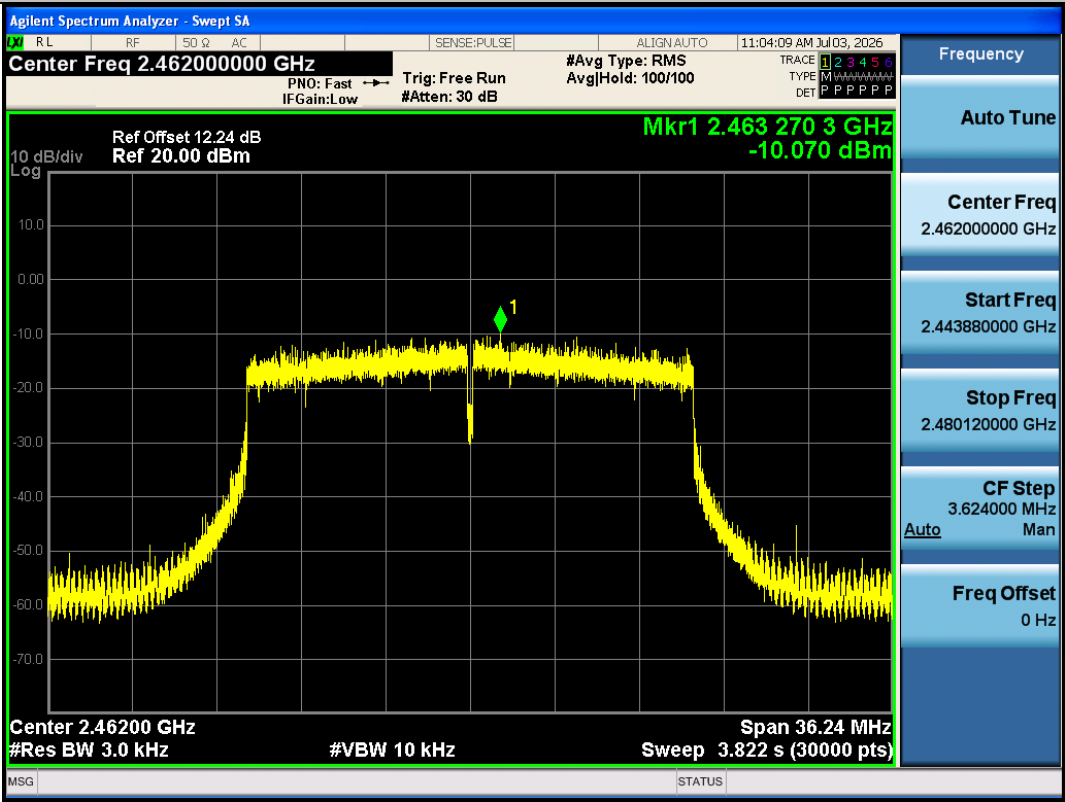
11N40-2452-PASS



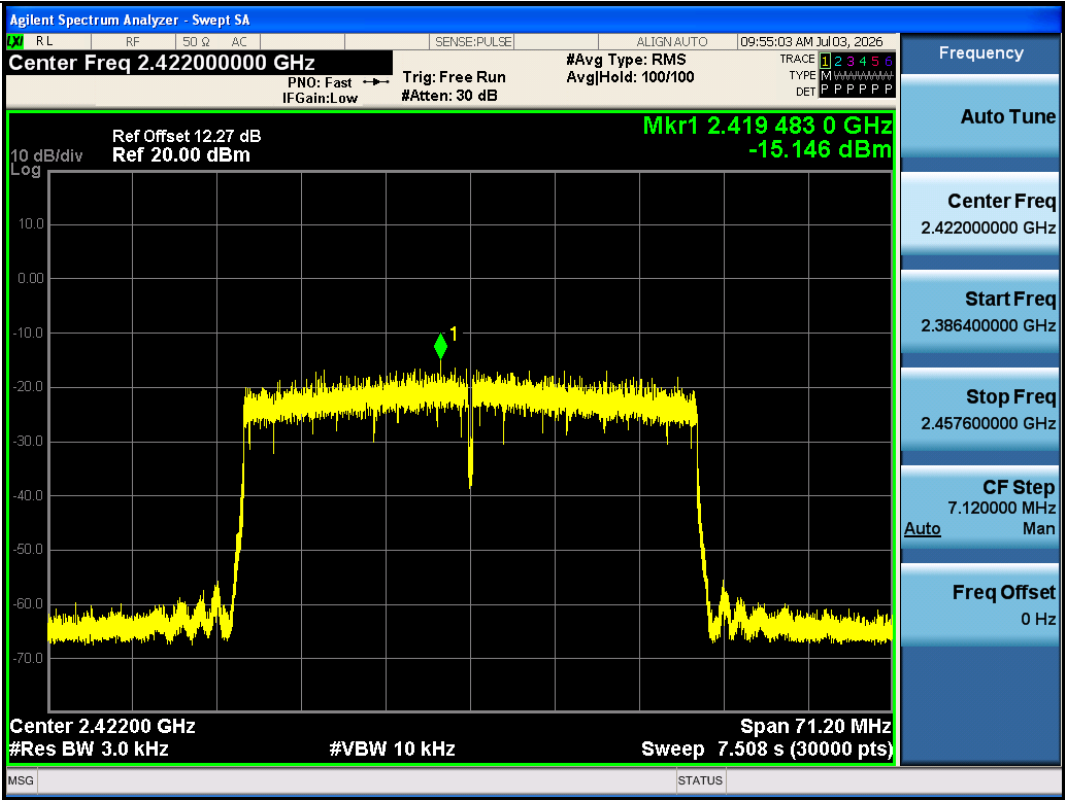
11AX20-2412-PASS



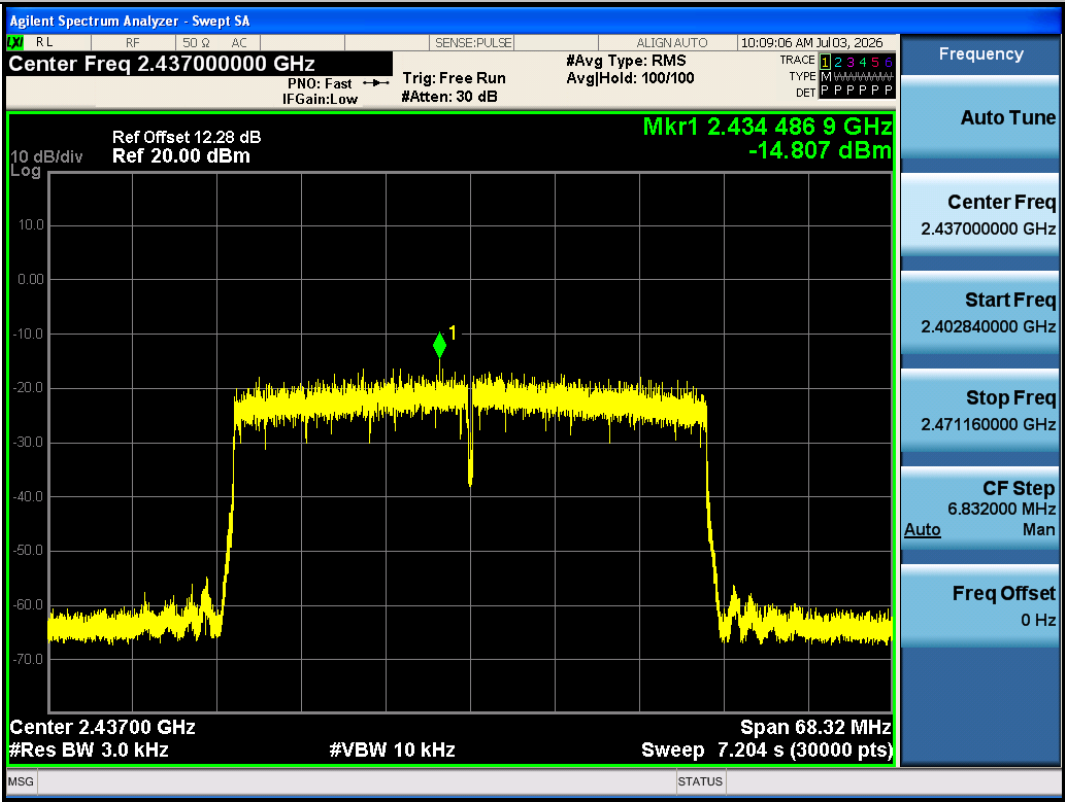
11AX20-2437-PASS



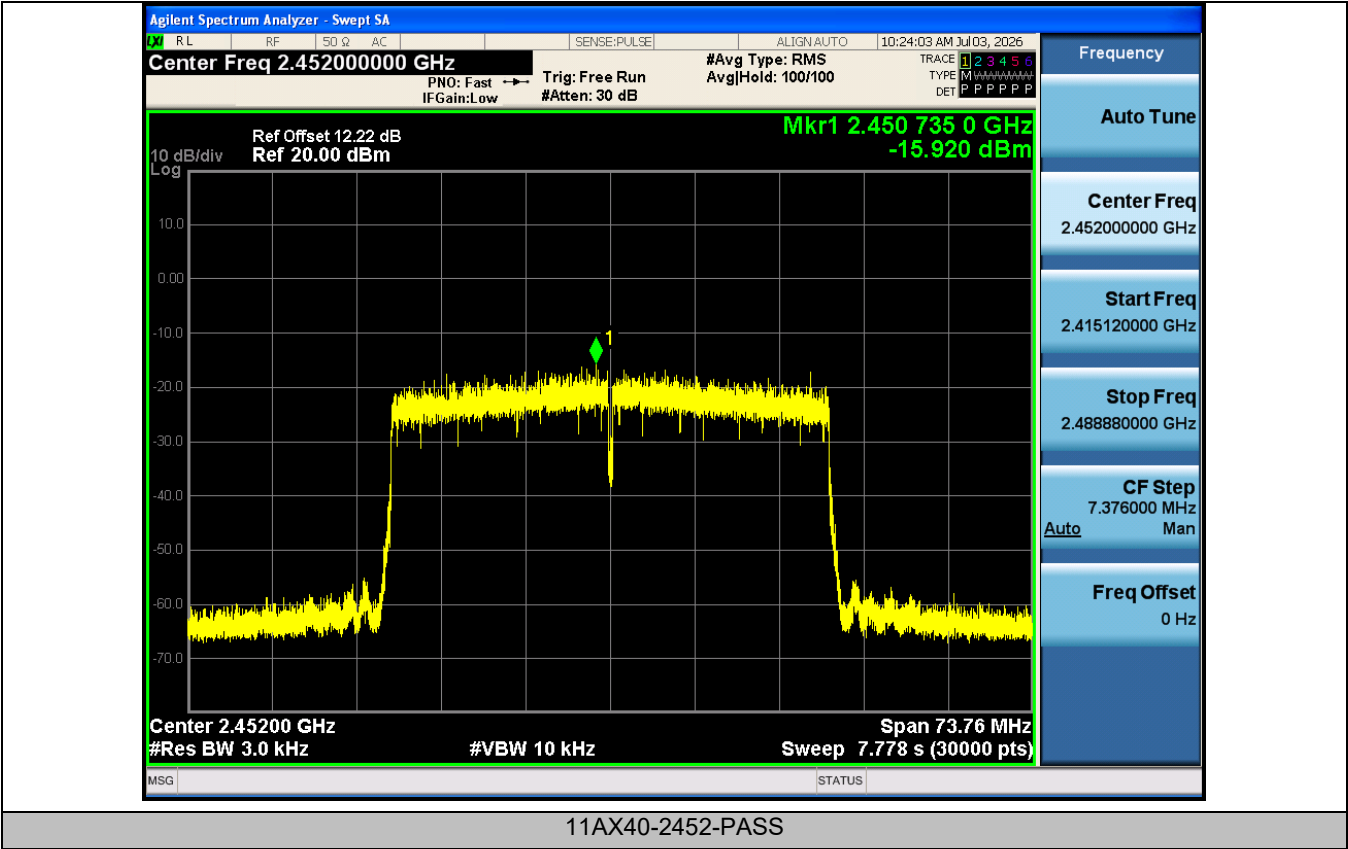
11AX20-2462-PASS



11AX40-2422-PASS



11AX40-2437-PASS



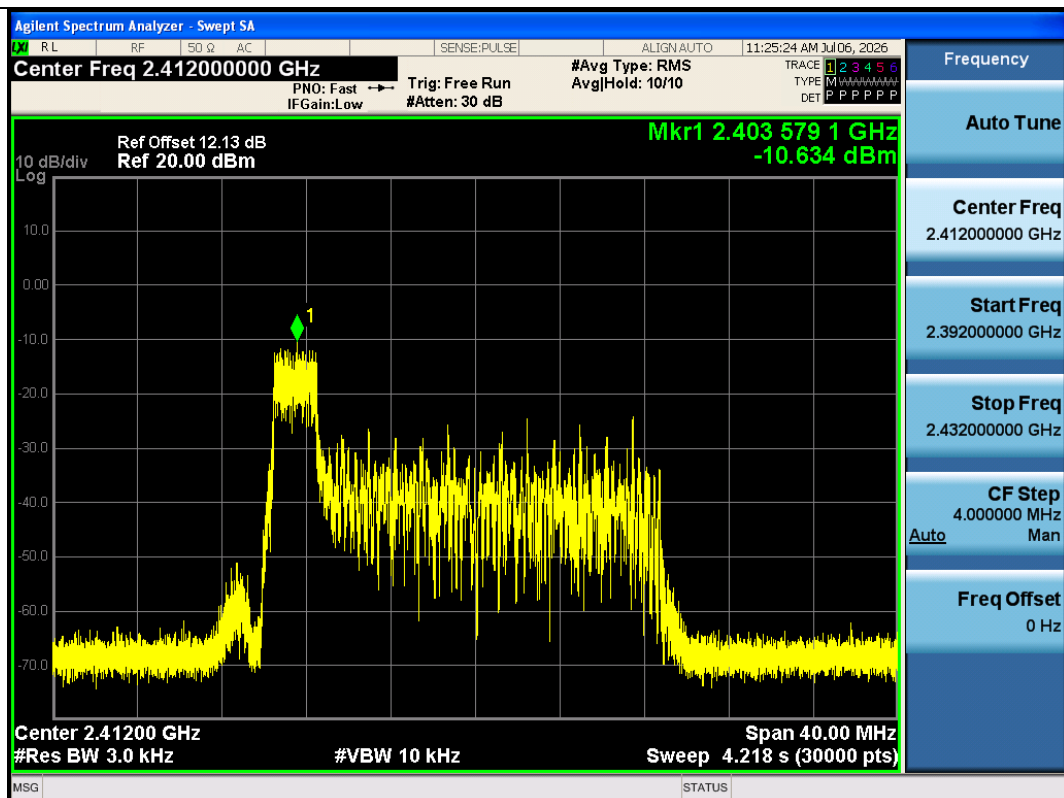
Partial RU:

TestMode	Frequency[MHz]	RuSize	RuIndex	Result[dBm/3kHz]		Limit[dBm/3kHz]		Verdict
				SISO	MIMO	SISO	MIMO	
11AX20	2412	26Tone	RU0	-10.63	-7.62	≤8.00	≤7.27	PASS
11AX20	2412	52Tone	RU37	-10.17	-7.16	≤8.00	≤7.27	PASS
11AX20	2412	106Tone	RU53	-10.99	-7.98	≤8.00	≤7.27	PASS
11AX20	2437	26Tone	RU0	-11.48	-8.47	≤8.00	≤7.27	PASS
11AX20	2437	52Tone	RU37	-11.98	-8.97	≤8.00	≤7.27	PASS
11AX20	2437	106Tone	RU53	-11.34	-8.33	≤8.00	≤7.27	PASS
11AX20	2462	26Tone	RU0	-11.54	-8.53	≤8.00	≤7.27	PASS
11AX20	2462	52Tone	RU37	-10.88	-7.87	≤8.00	≤7.27	PASS
11AX20	2462	106Tone	RU53	-11.17	-8.16	≤8.00	≤7.27	PASS
11AX40	2422	242Tone	RU61	-16.49	-13.48	≤8.00	≤7.27	PASS
11AX40	2437	242Tone	RU61	-15.98	-12.97	≤8.00	≤7.27	PASS
11AX40	2452	242Tone	RU61	-16.89	-13.88	≤8.00	≤7.27	PASS

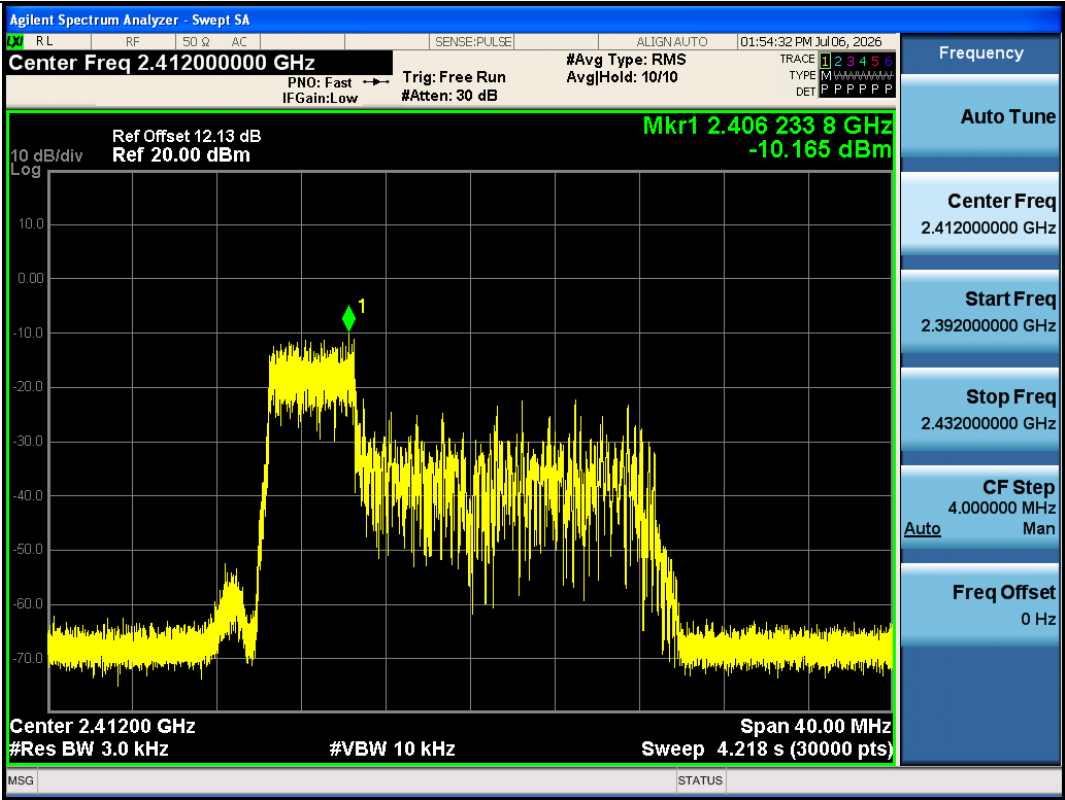
Note1: MIMO Limit = 8dBm/3kHz - (6 dBi - 6.73dBi).

Note2: For SISO mode, we evaluated WIFI0 and WIFI1. Since WIFI1 has higher output power, the test data is based on WIFI1.

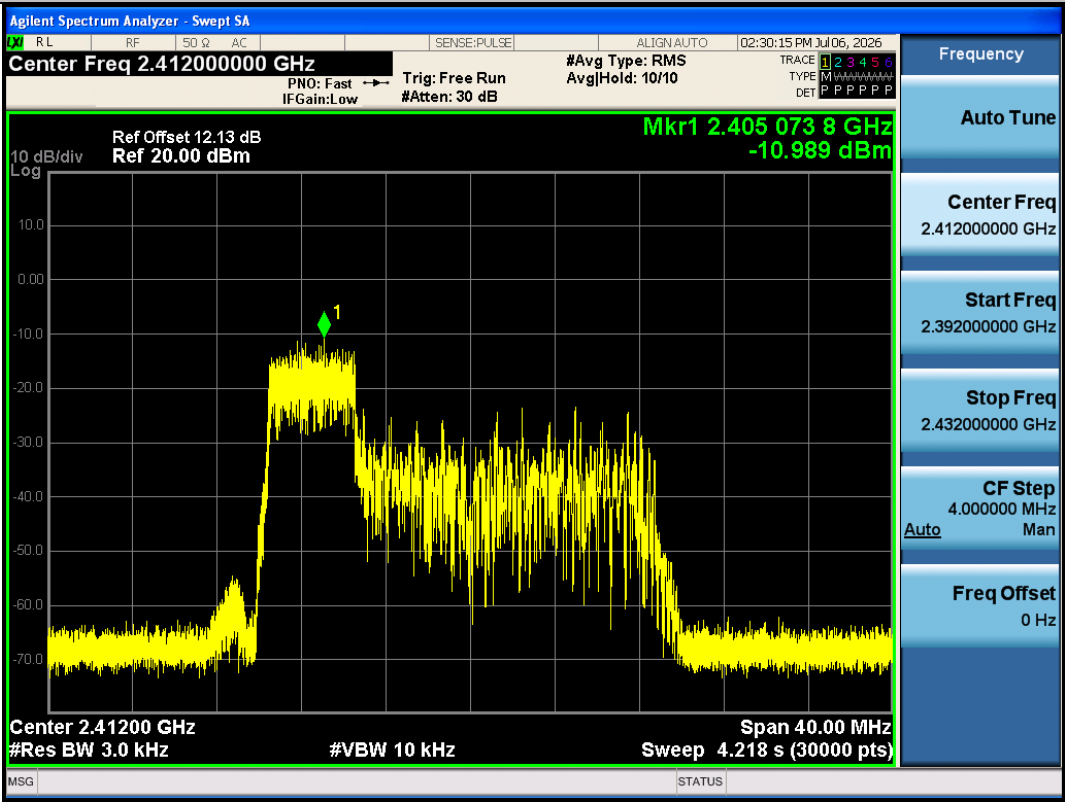
Note3: CDD PSD = SISO PSD + 10*Log(N), N = Antenna number.



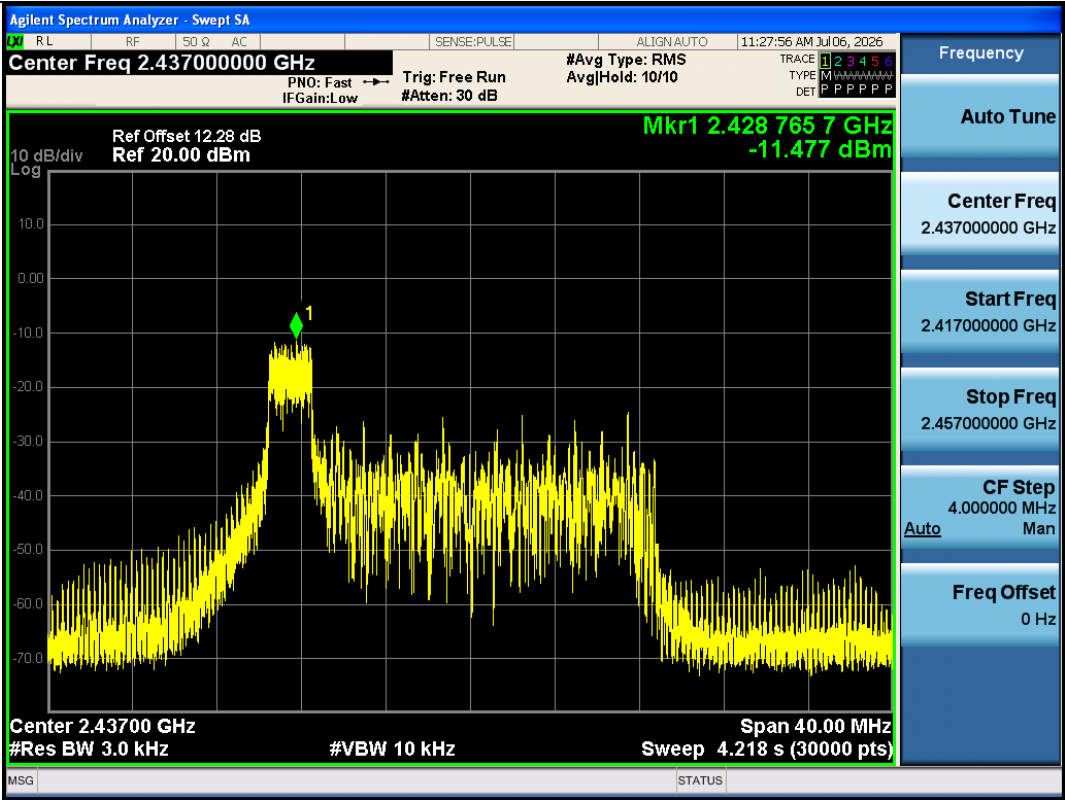
11AX20-2412-26Tone-RU0-PASS



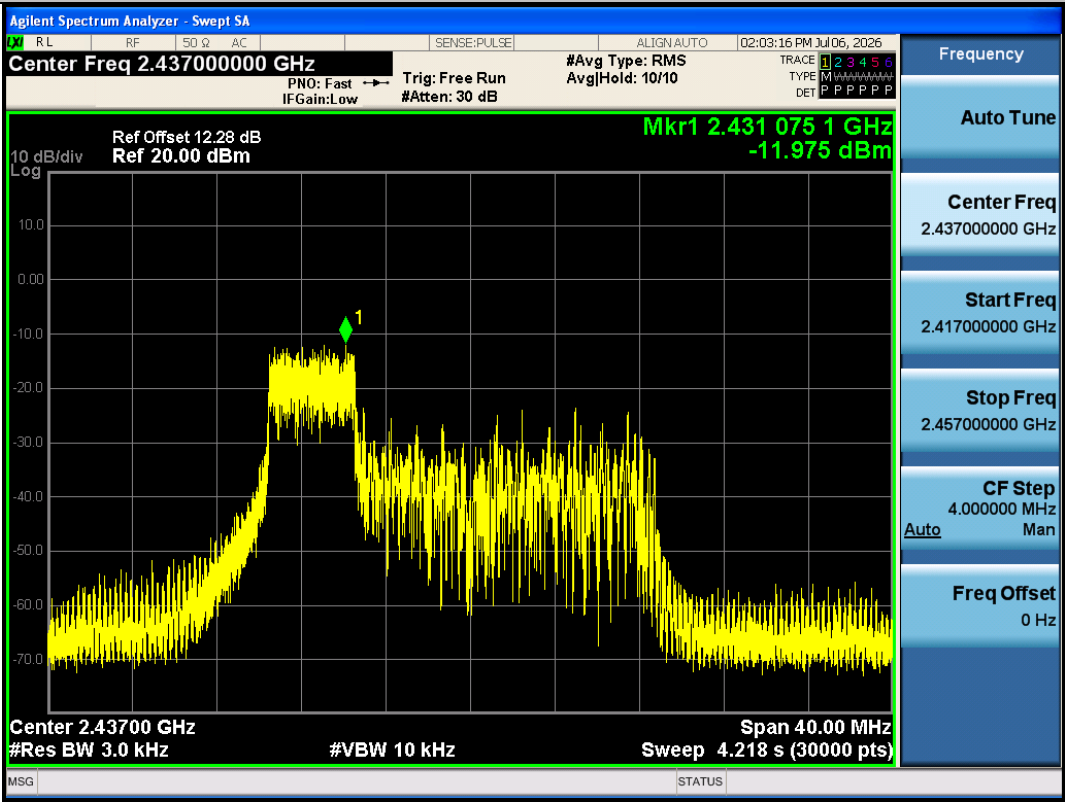
11AX20-2412-52Tone-RU37-PASS



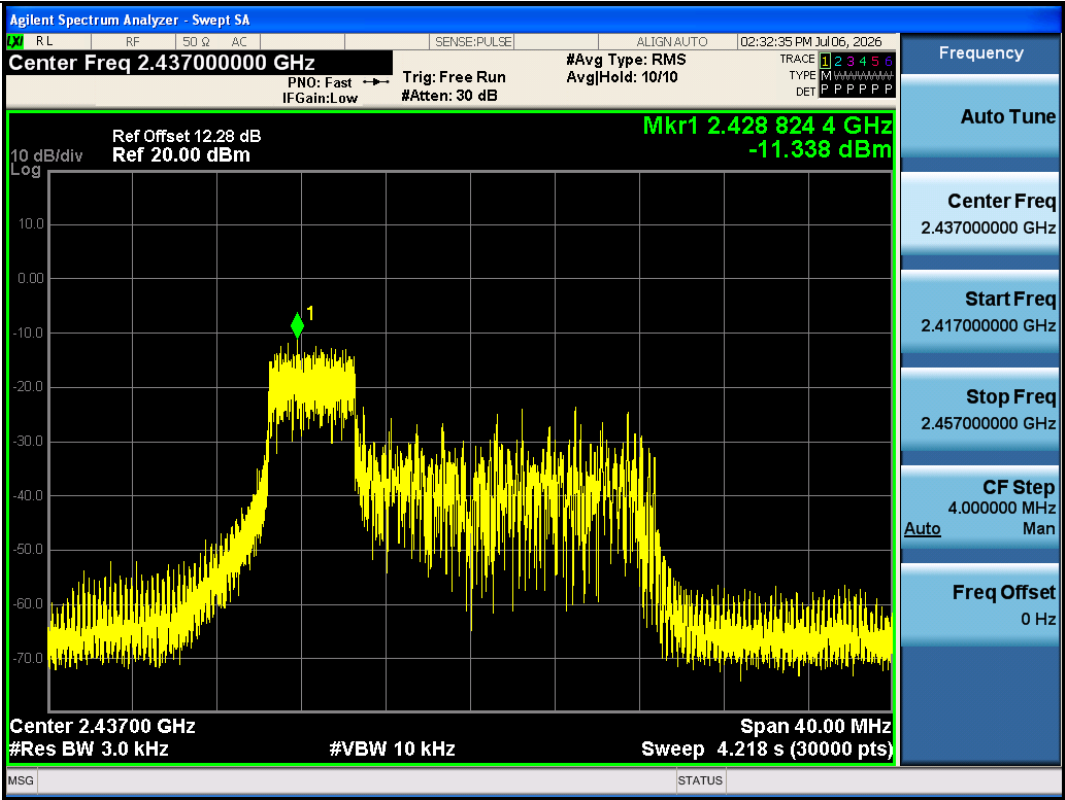
11AX20-2412-106Tone-RU53-PASS



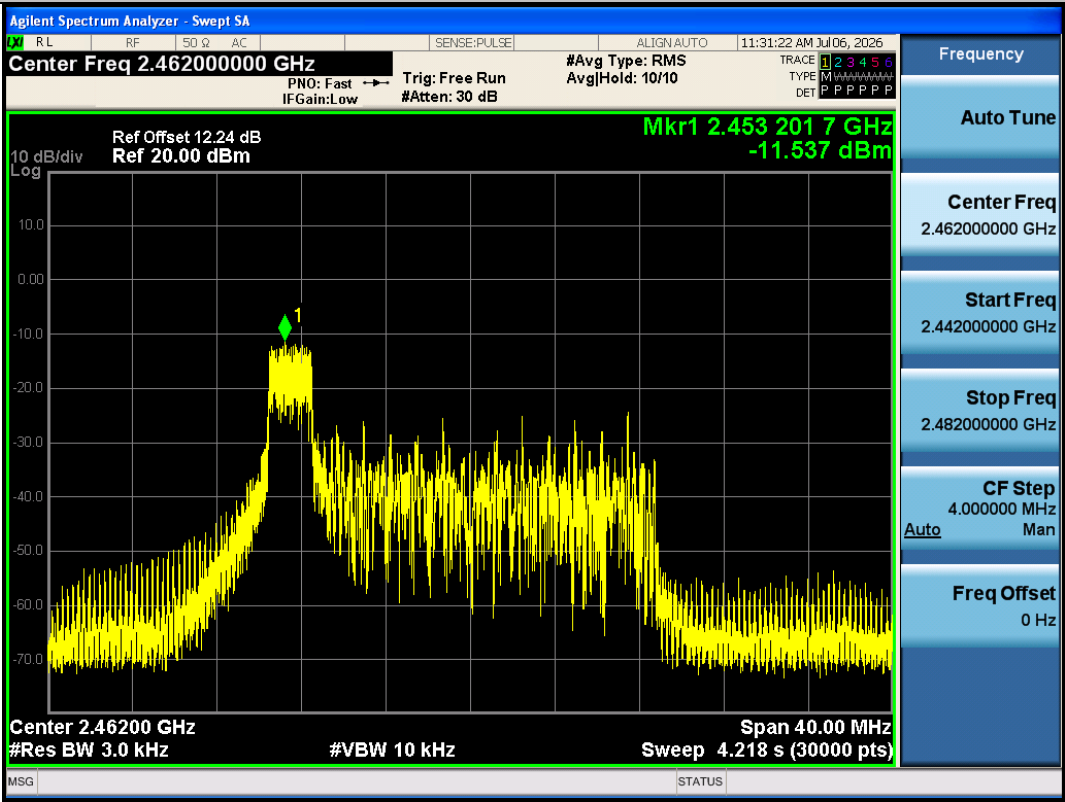
11AX20-2437-26Tone-RU0-PASS



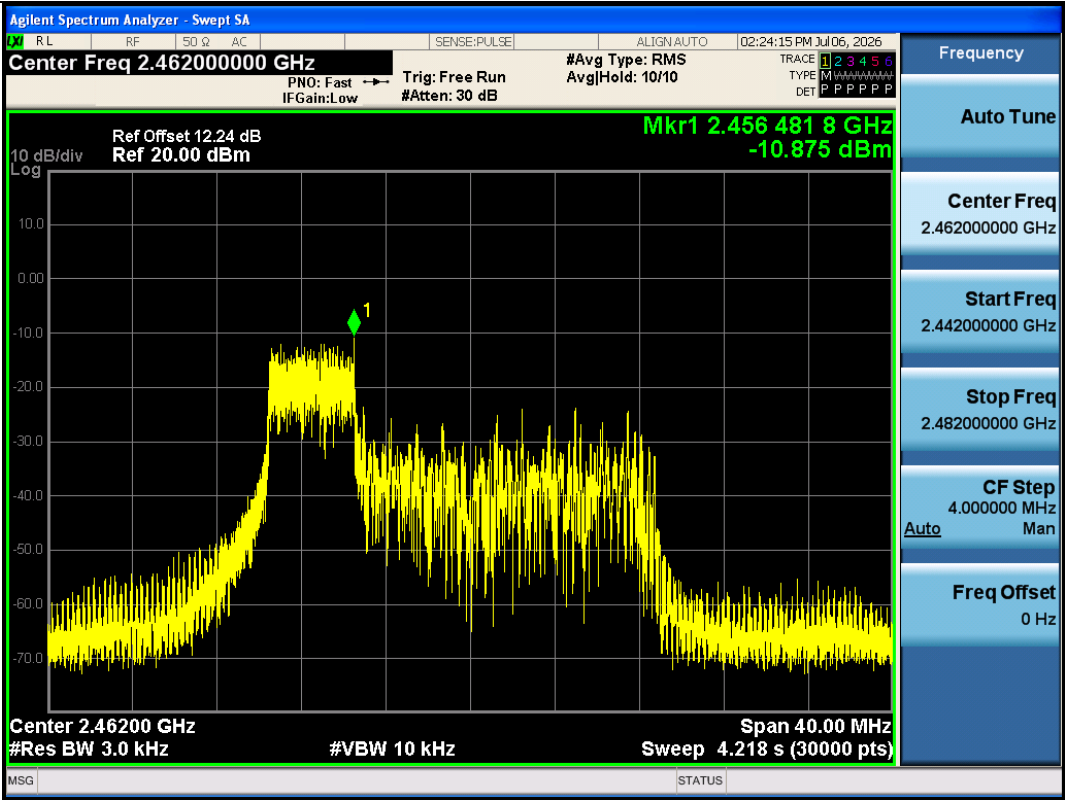
11AX20-2437-52Tone-RU37-PASS



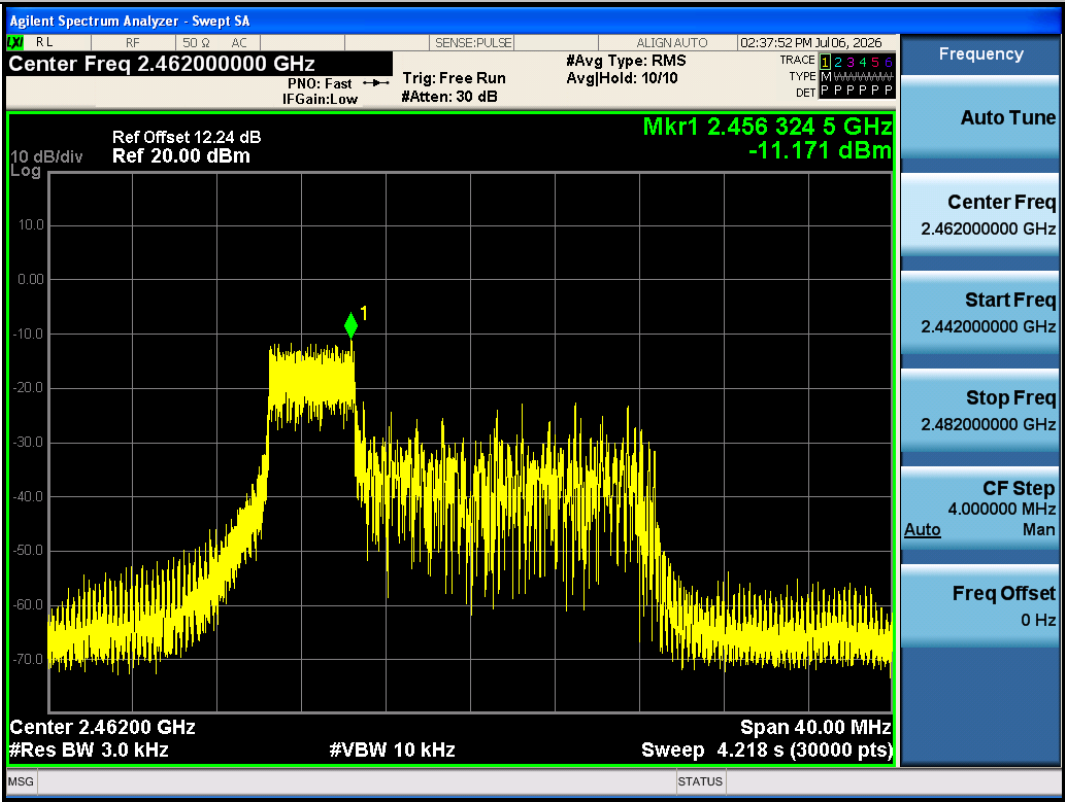
11AX20-2437-106Tone-RU53-PASS



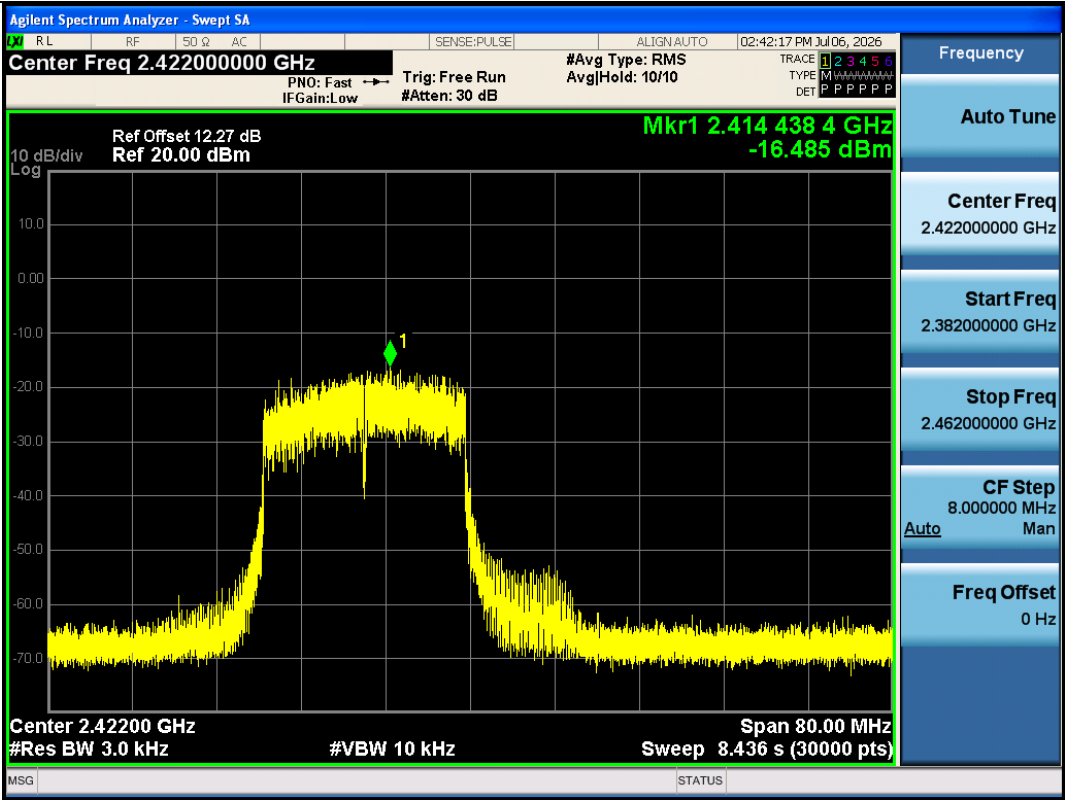
11AX20-2462-26Tone-RU0-PASS



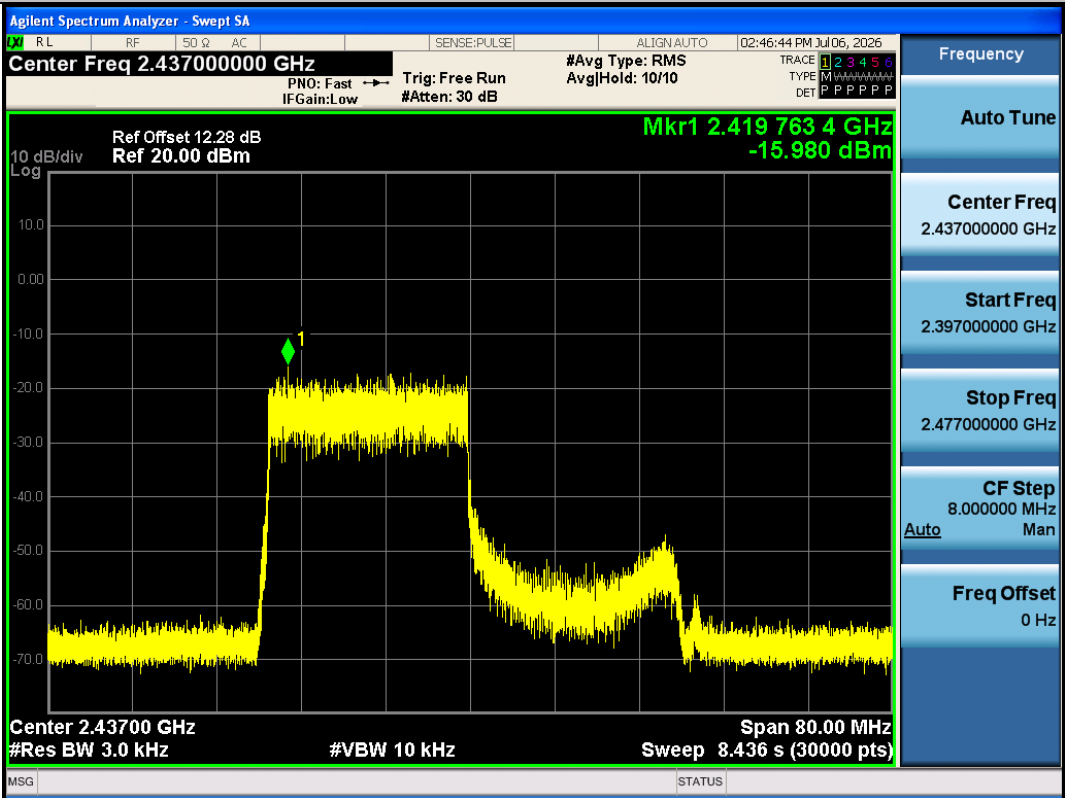
11AX20-2462-52Tone-RU37-PASS



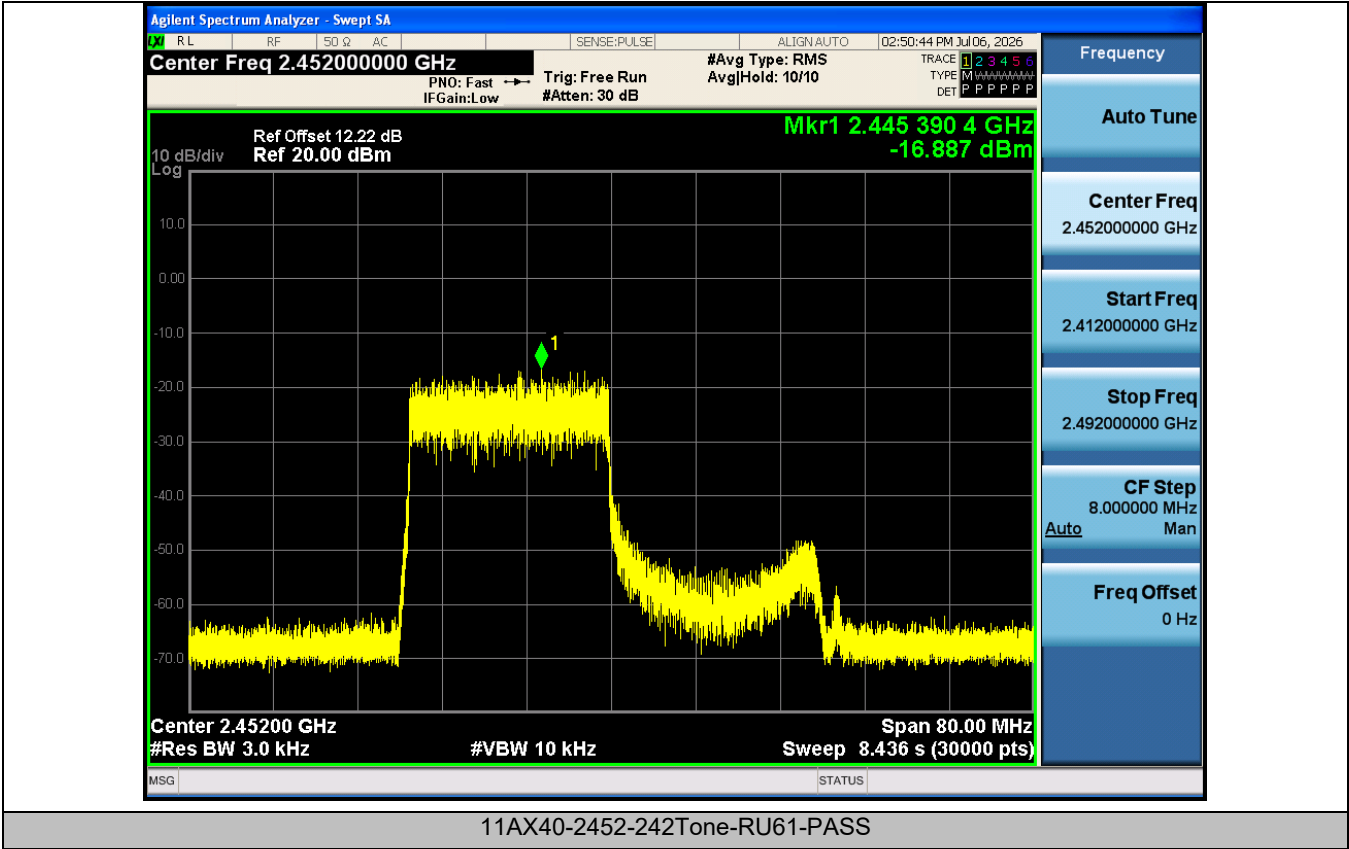
11AX20-2462-106Tone-RU53-PASS



11AX40-2422-242Tone-RU61-PASS

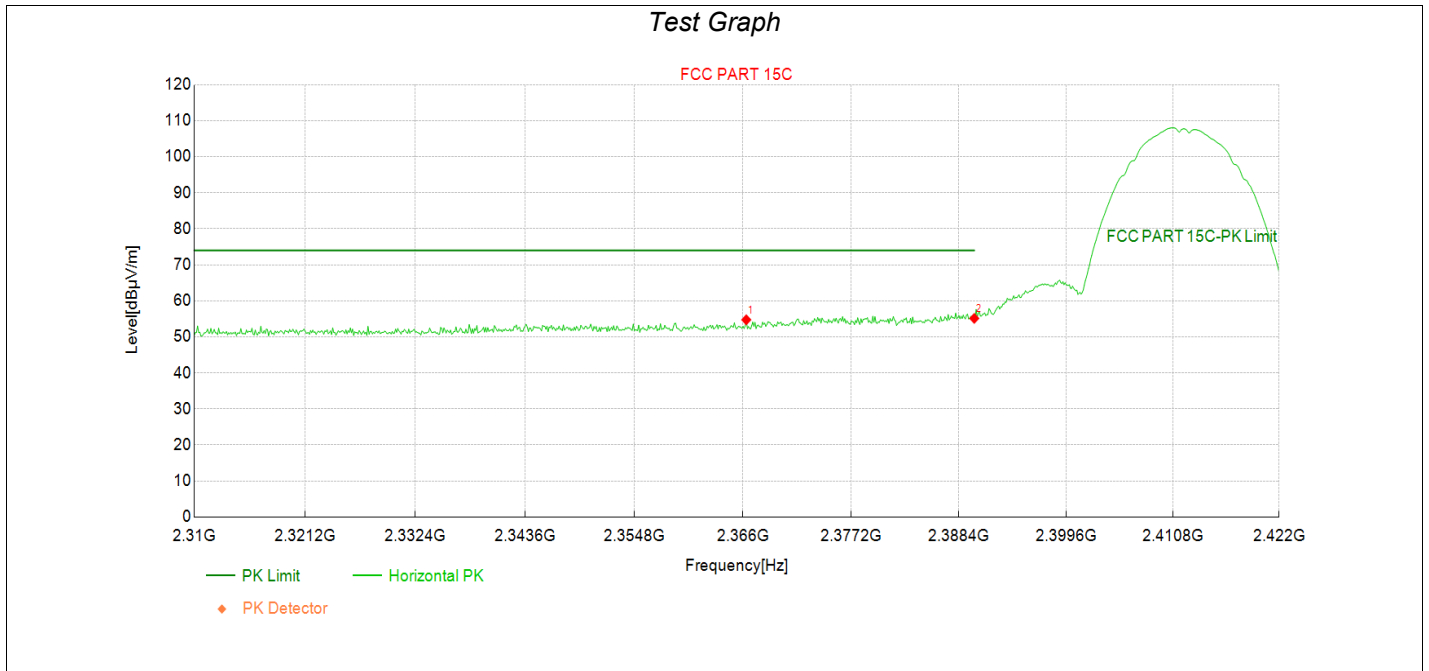


11AX40-2437-242Tone-RU61-PASS



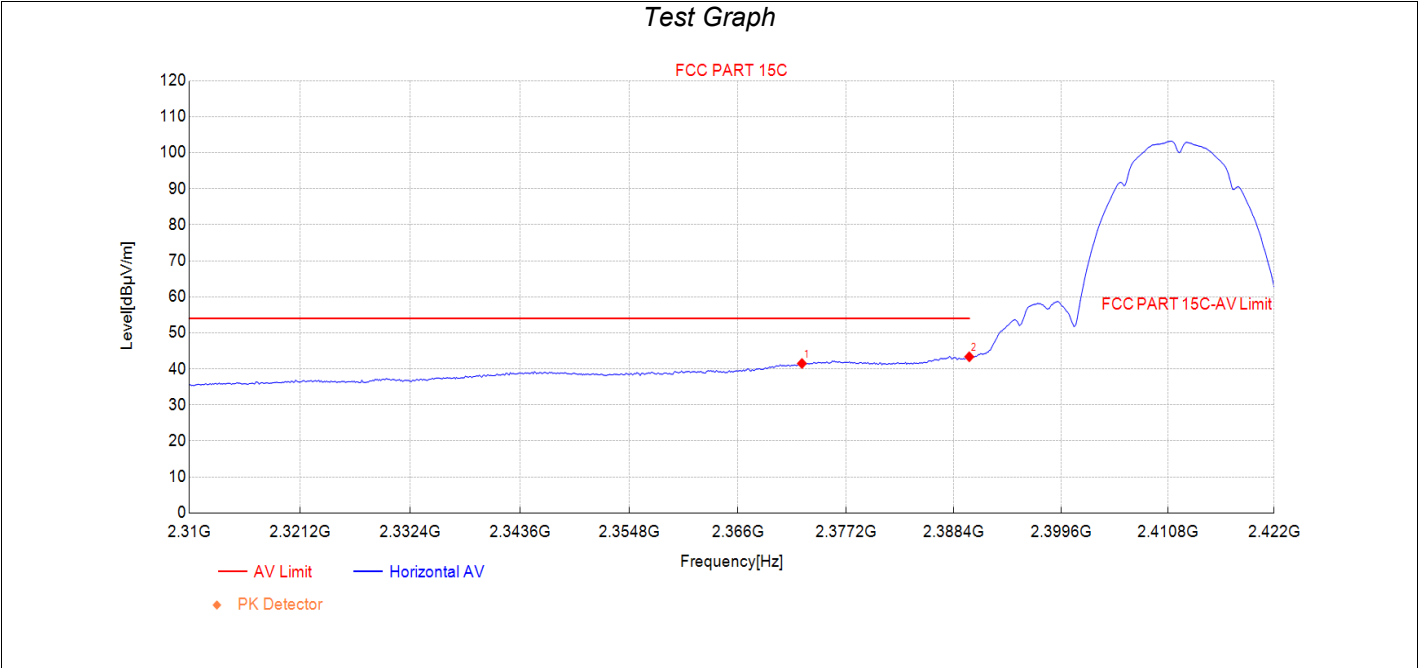
Appendix D: Band edge measurements

Transmit at 2412MHz by 802.11b with Ant2



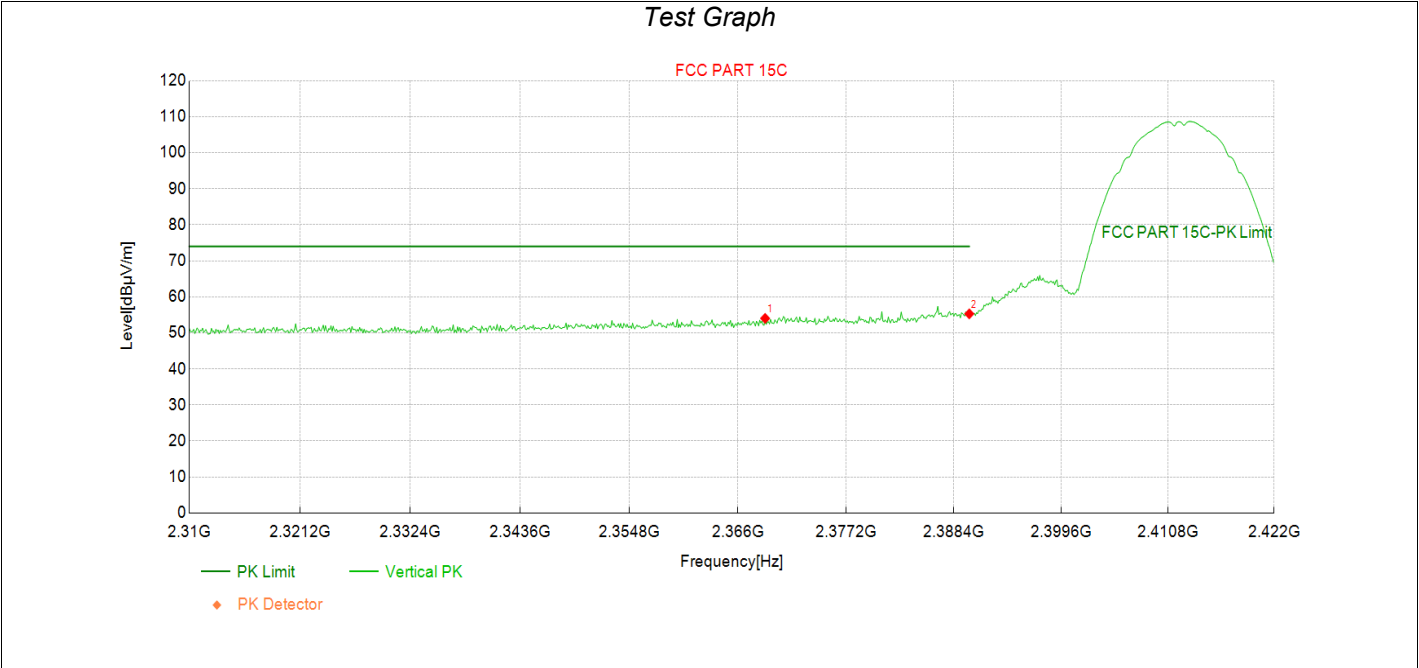
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2366.34	54.3	54.73	0.410	74.00	19.27	PK	Horizo	PASS
2	2390.00	54.7	55.12	0.420	74.00	18.88	PK	Horizo	PASS

Transmit at 2412MHz by 802.11b with Ant2



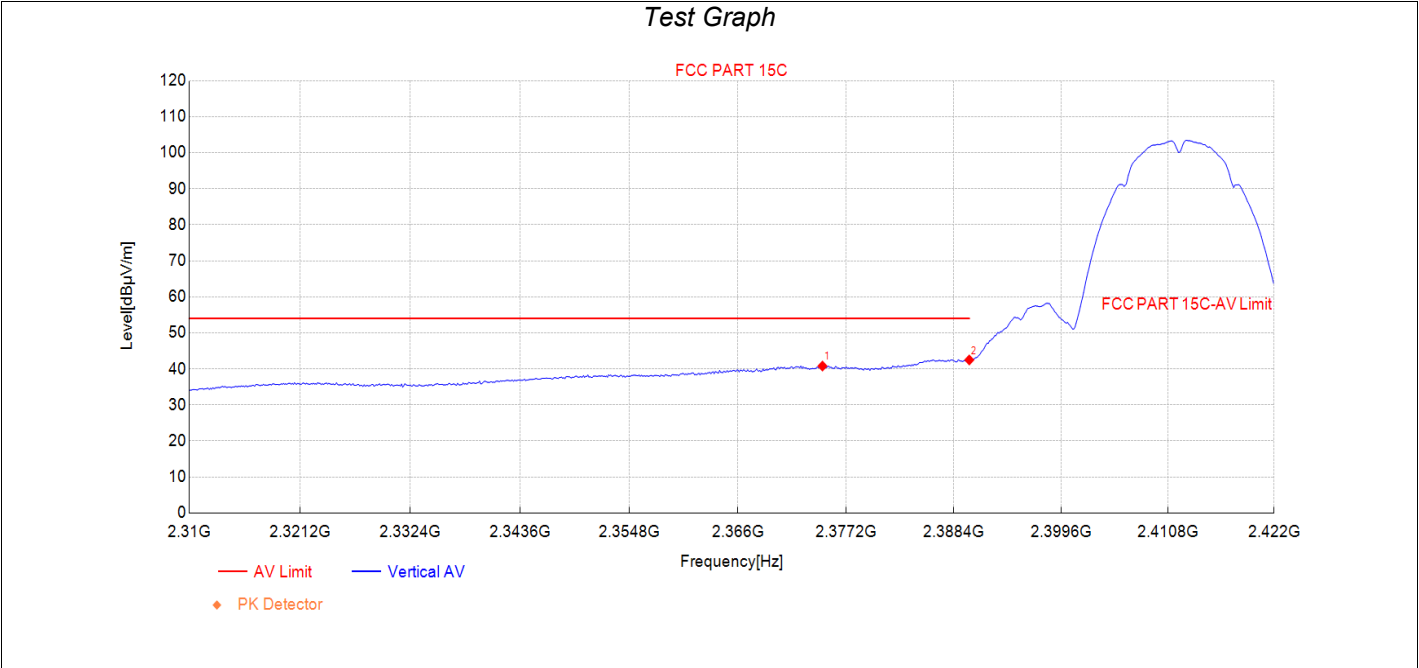
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2372.61	41.1	41.50	0.400	54.00	12.50	AV	Horizo	PASS
2	2390.00	42.9	43.36	0.420	54.00	10.64	AV	Horizo	PASS

Transmit at 2412MHz by 802.11b with Ant2



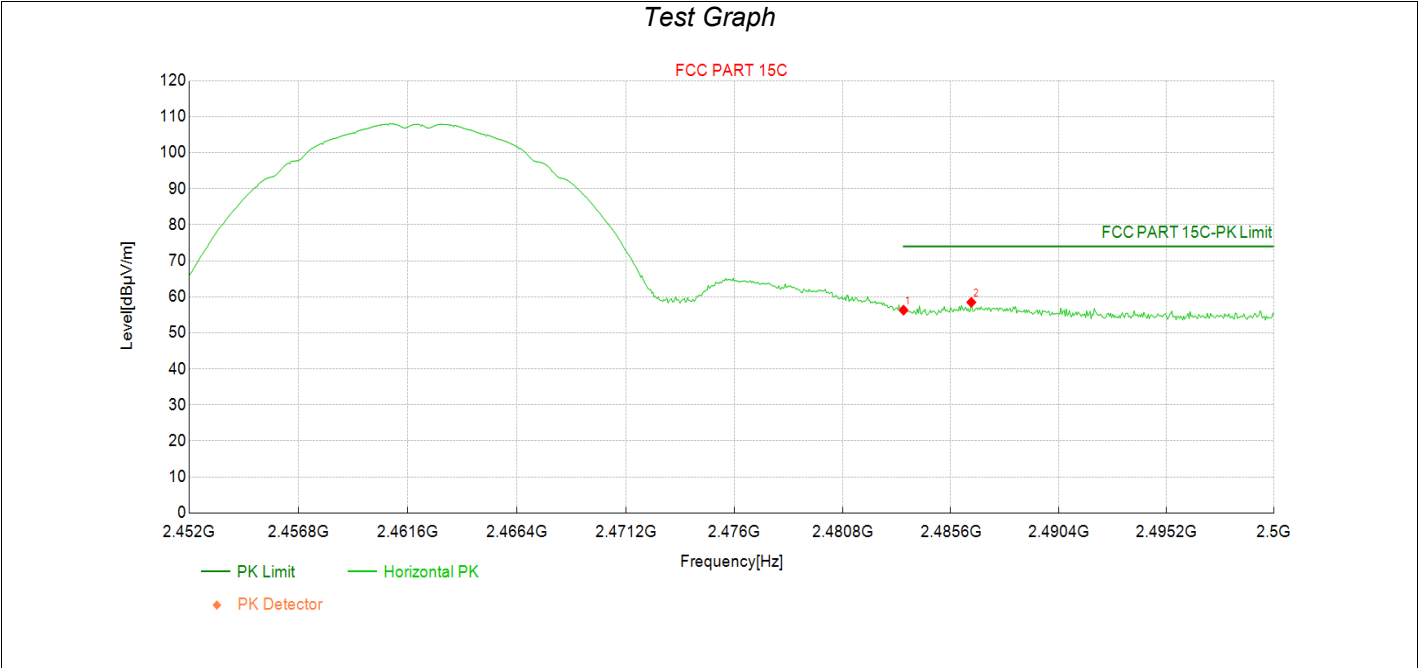
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2368.80	53.6	54.02	0.400	74.00	19.98	PK	Vertic	PASS
2	2390.00	54.9	55.27	0.420	74.00	18.73	PK	Vertic	PASS

Transmit at 2412MHz by 802.11b with Ant2



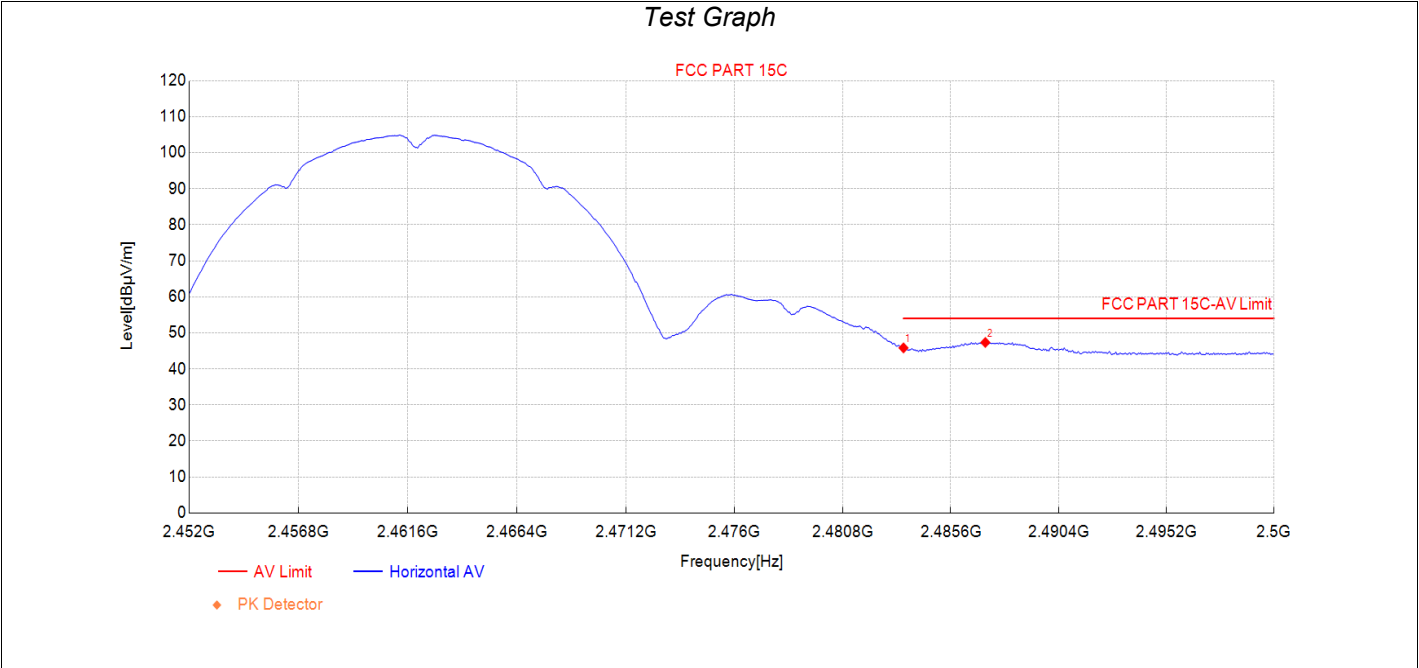
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2374.74	40.4	40.79	0.410	54.00	13.21	AV	Vertic	PASS
2	2390.00	42.1	42.48	0.420	54.00	11.52	AV	Vertic	PASS

Transmit at 2462MHz by 802.11b with Ant2



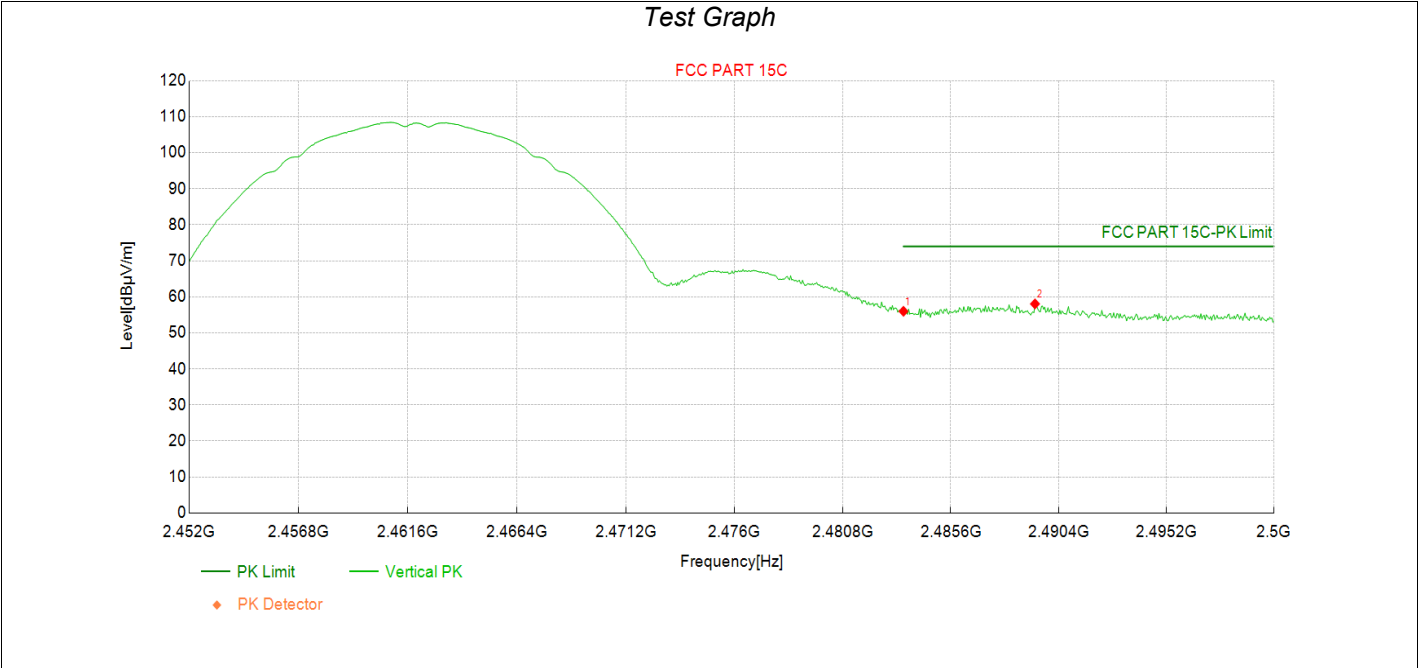
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	55.8	56.30	0.520	74.00	17.70	PK	Horizo	PASS
2	2486.51	58.0	58.49	0.520	74.00	15.51	PK	Horizo	PASS

Transmit at 2462MHz by 802.11b with Ant2



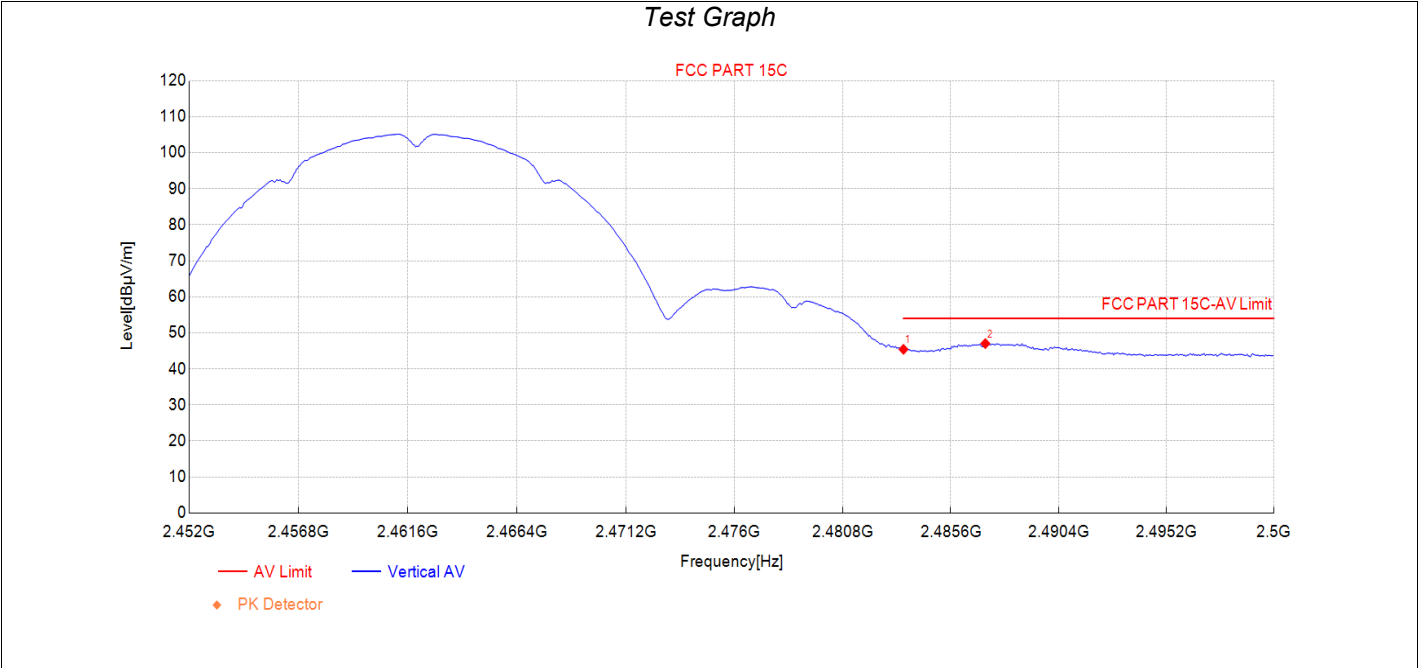
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	45.3	45.83	0.520	54.00	8.17	AV	Horizo	PASS
2	2487.14	46.8	47.34	0.520	54.00	6.66	AV	Horizo	PASS

Transmit at 2462MHz by 802.11b with Ant2



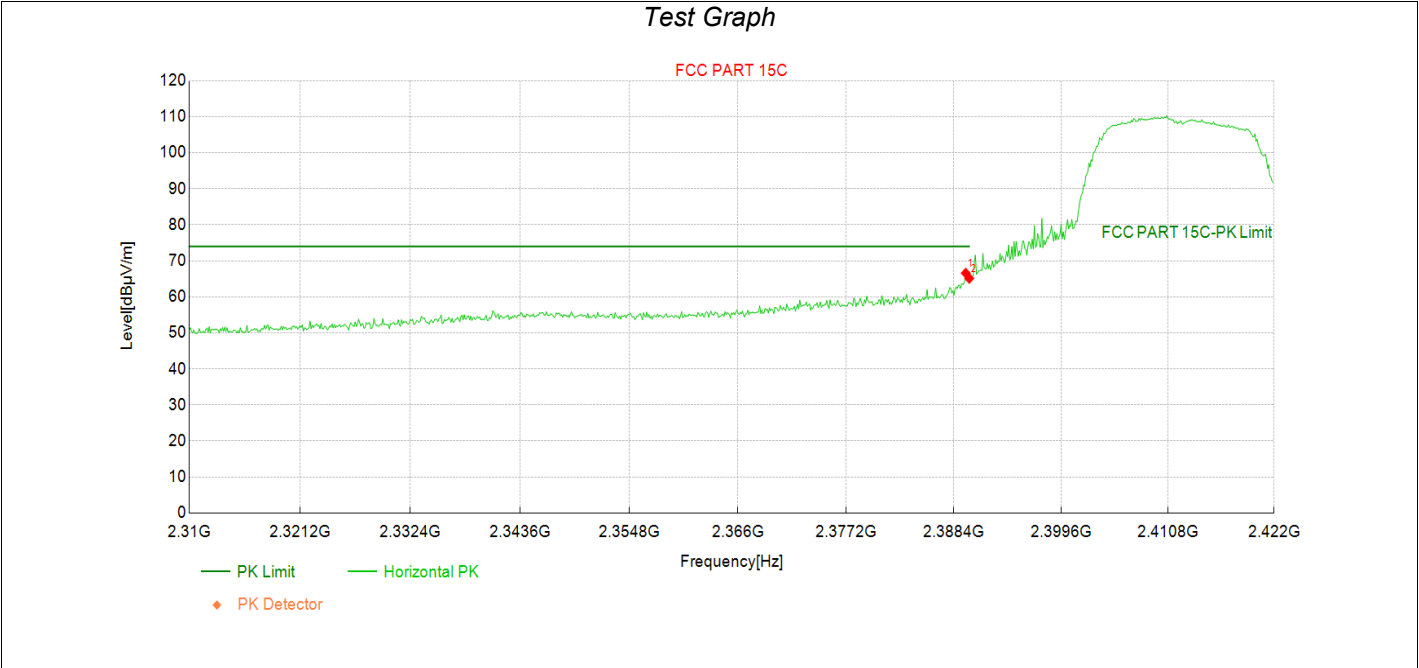
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	55.5	55.99	0.520	74.00	18.01	PK	Vertic	PASS
2	2489.34	57.5	58.04	0.540	74.00	15.96	PK	Vertic	PASS

Transmit at 2462MHz by 802.11b with Ant2



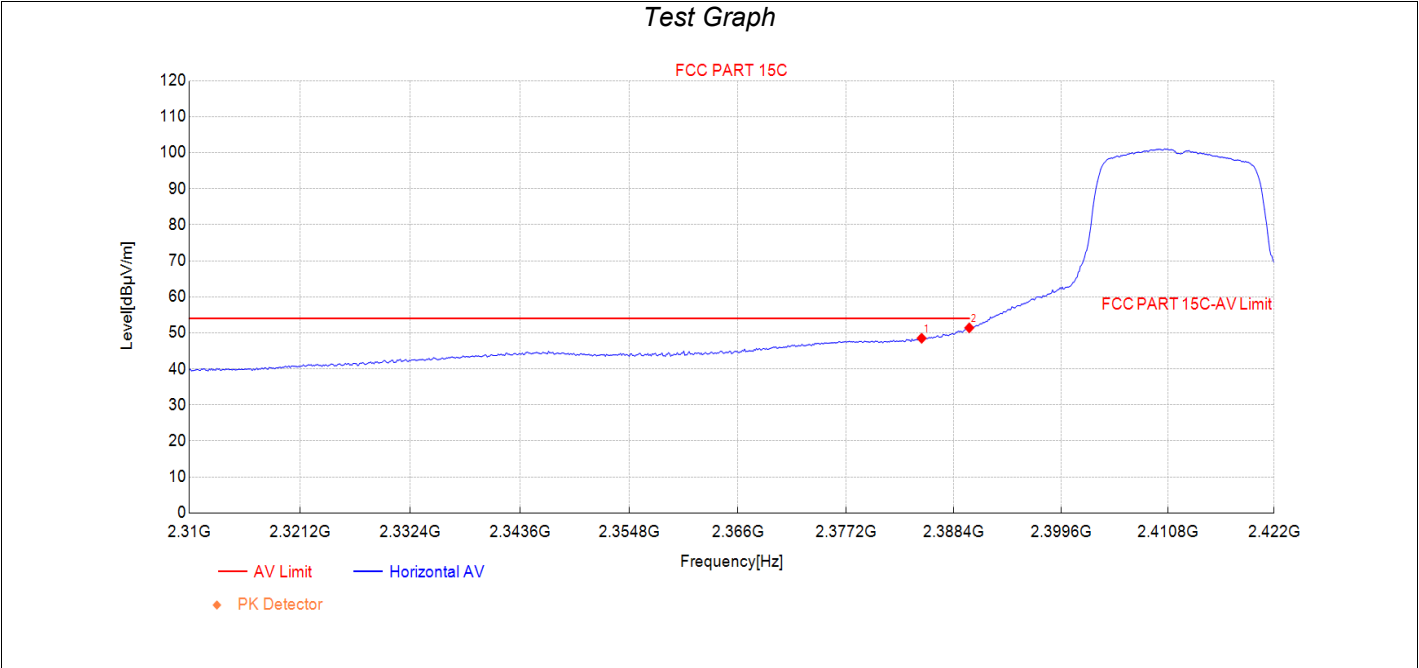
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	44.9	45.43	0.520	54.00	8.57	AV	Vertic	PASS
2	2487.14	46.5	47.02	0.520	54.00	6.98	AV	Vertic	PASS

Transmit at 2412MHz by 802.11g with Ant2



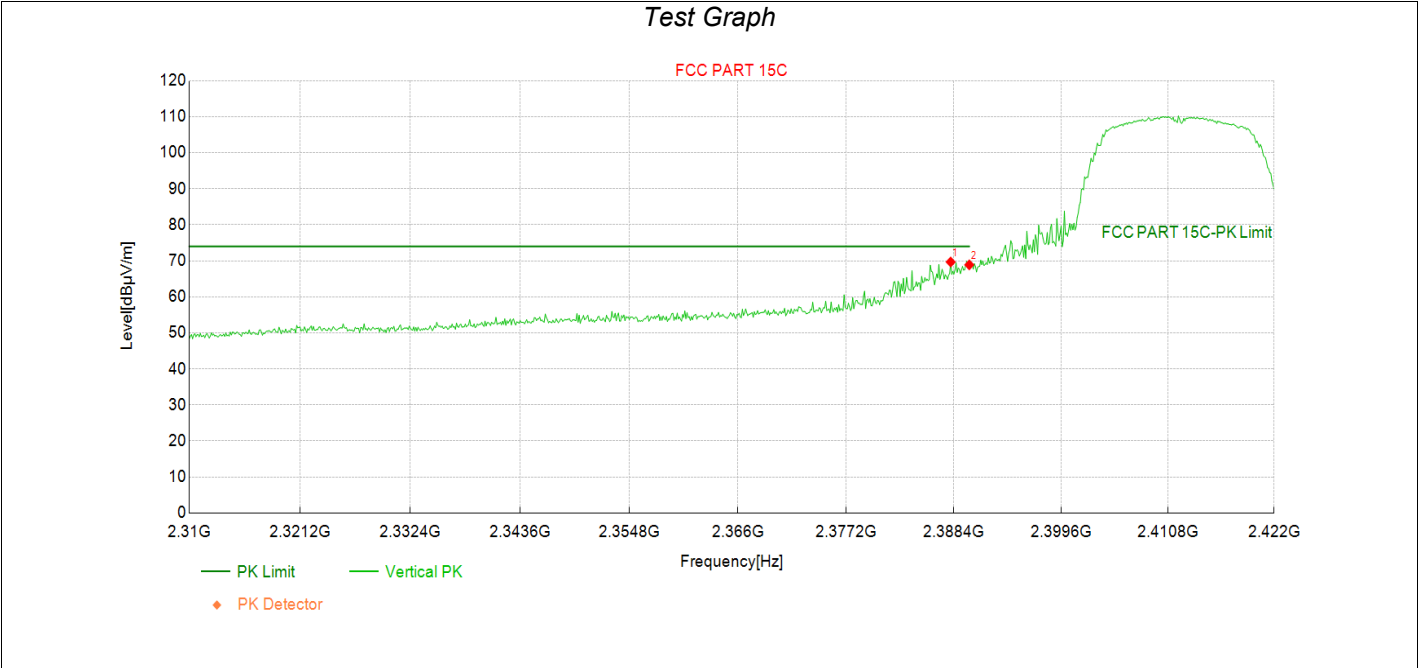
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.63	66.2	66.58	0.420	74.00	7.42	PK	Horizo	PASS
2	2390.00	64.7	65.11	0.420	74.00	8.89	PK	Horizo	PASS

Transmit at 2412MHz by 802.11g with Ant2



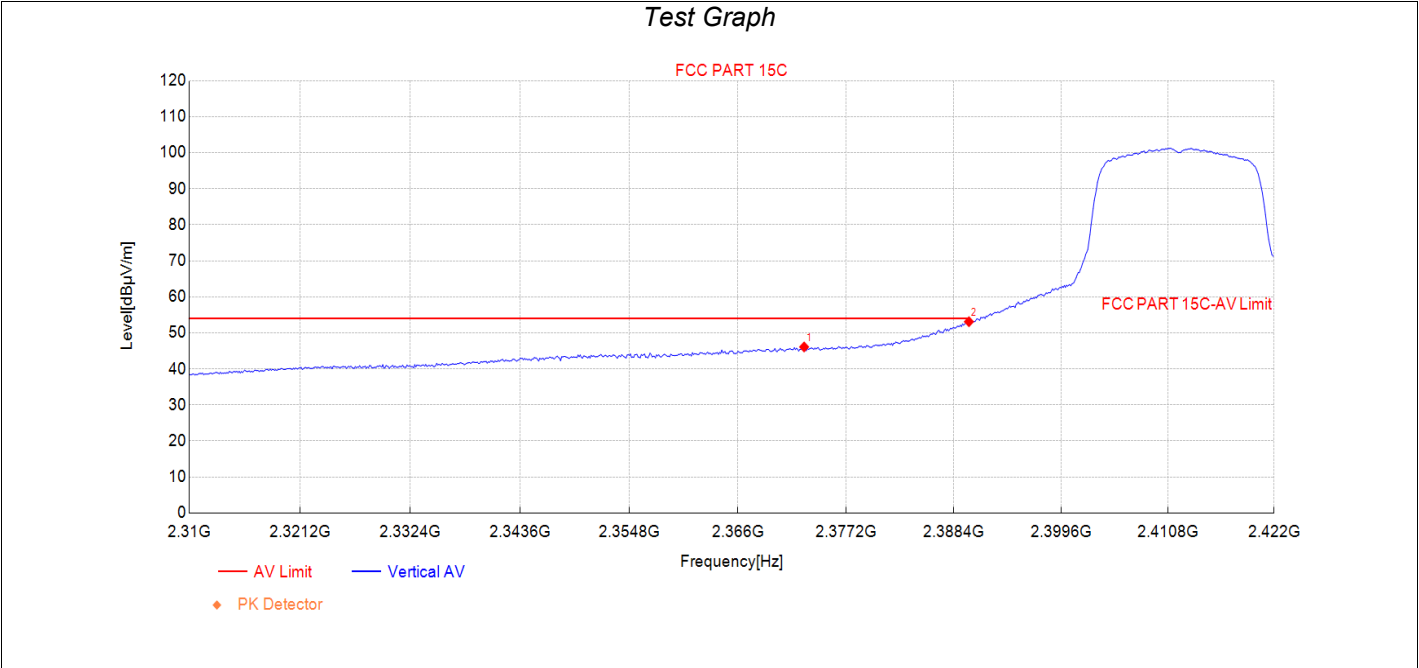
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2385.04	48.1	48.50	0.410	54.00	5.50	AV	Horizo	PASS
2	2390.00	51.0	51.39	0.420	54.00	2.61	AV	Horizo	PASS

Transmit at 2412MHz by 802.11g with Ant2



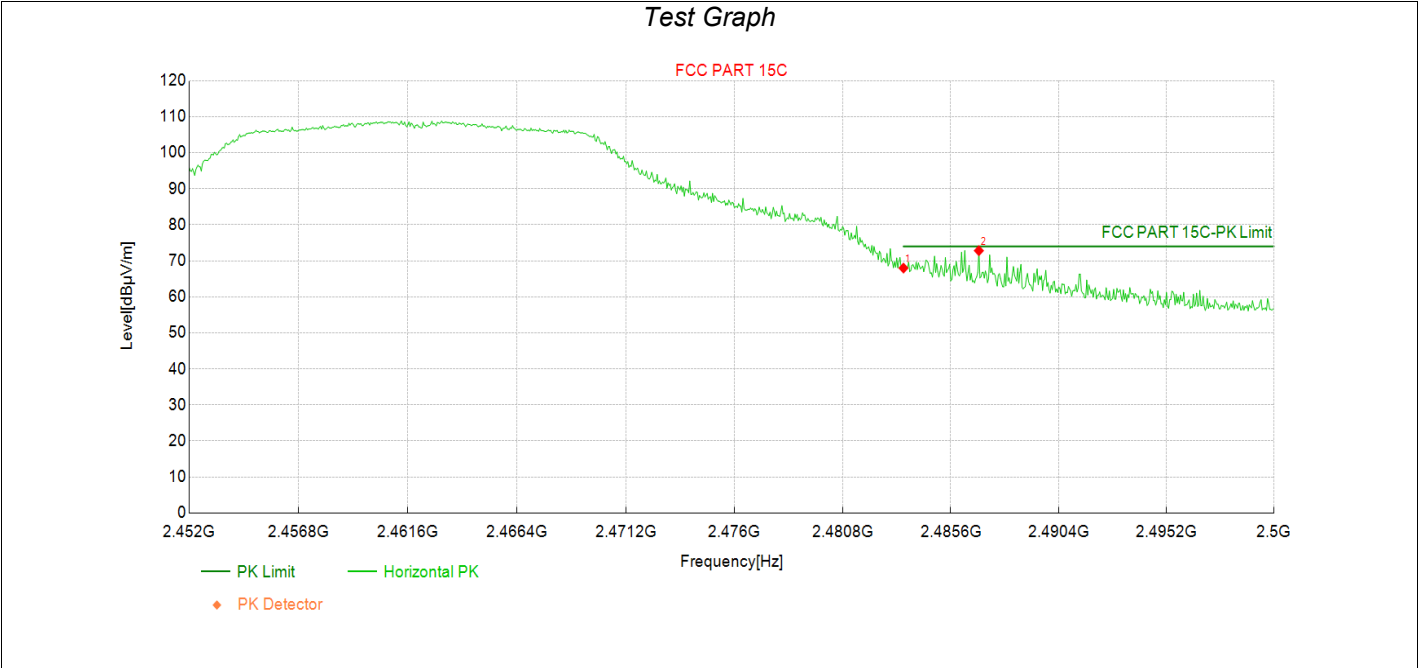
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.06	69.3	69.66	0.410	74.00	4.34	PK	Vertic	PASS
2	2390.00	68.5	68.87	0.420	74.00	5.13	PK	Vertic	PASS

Transmit at 2412MHz by 802.11g with Ant2



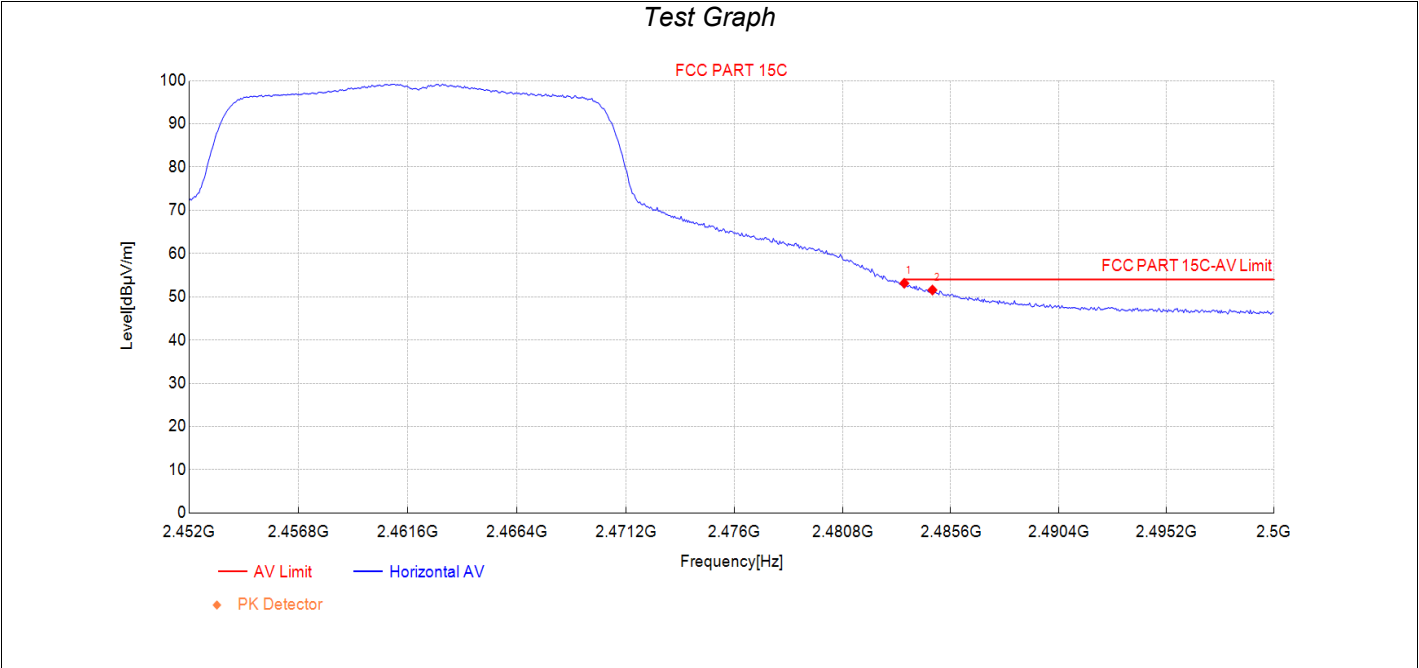
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2372.83	45.7	46.09	0.400	54.00	7.91	AV	Vertic	PASS
2	2389.97	52.7	53.09	0.420	54.00	0.91	AV	Vertic	PASS

Transmit at 2462MHz by 802.11g with Ant2



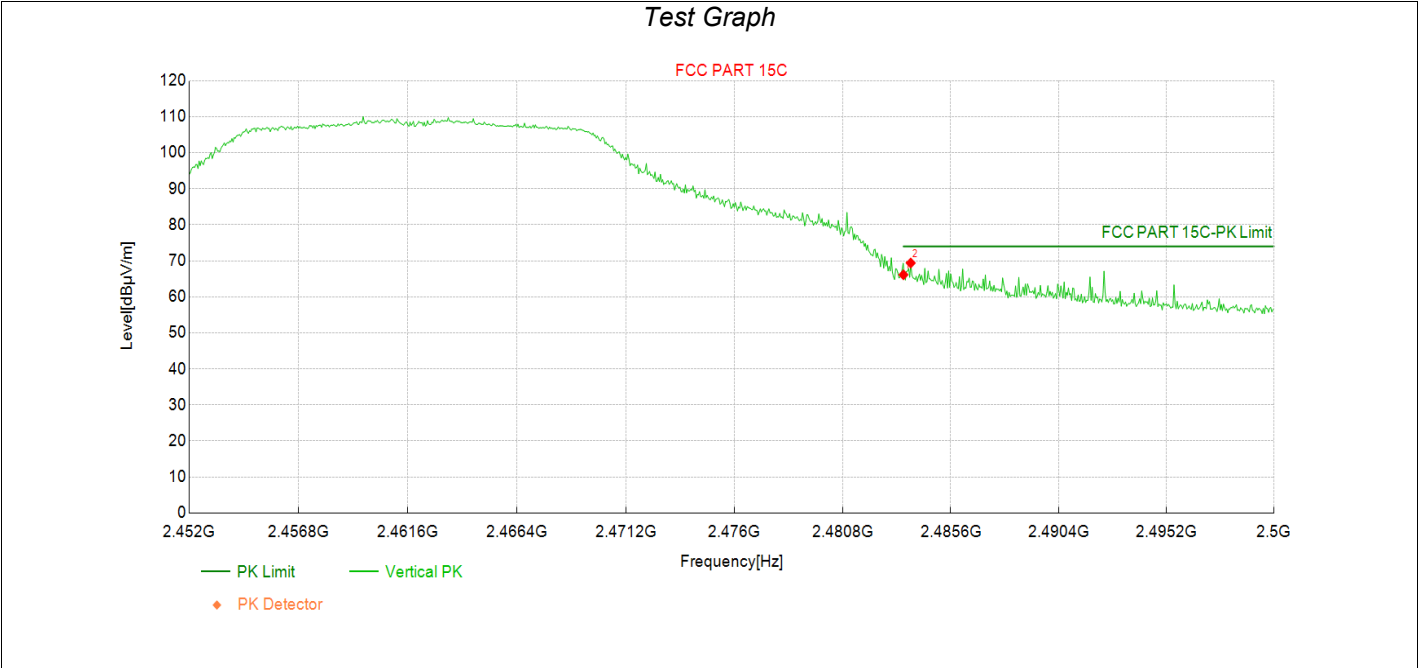
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	67.5	67.98	0.520	74.00	6.02	PK	Horizo	PASS
2	2486.85	72.3	72.80	0.520	74.00	1.20	PK	Horizo	PASS

Transmit at 2462MHz by 802.11g with Ant2



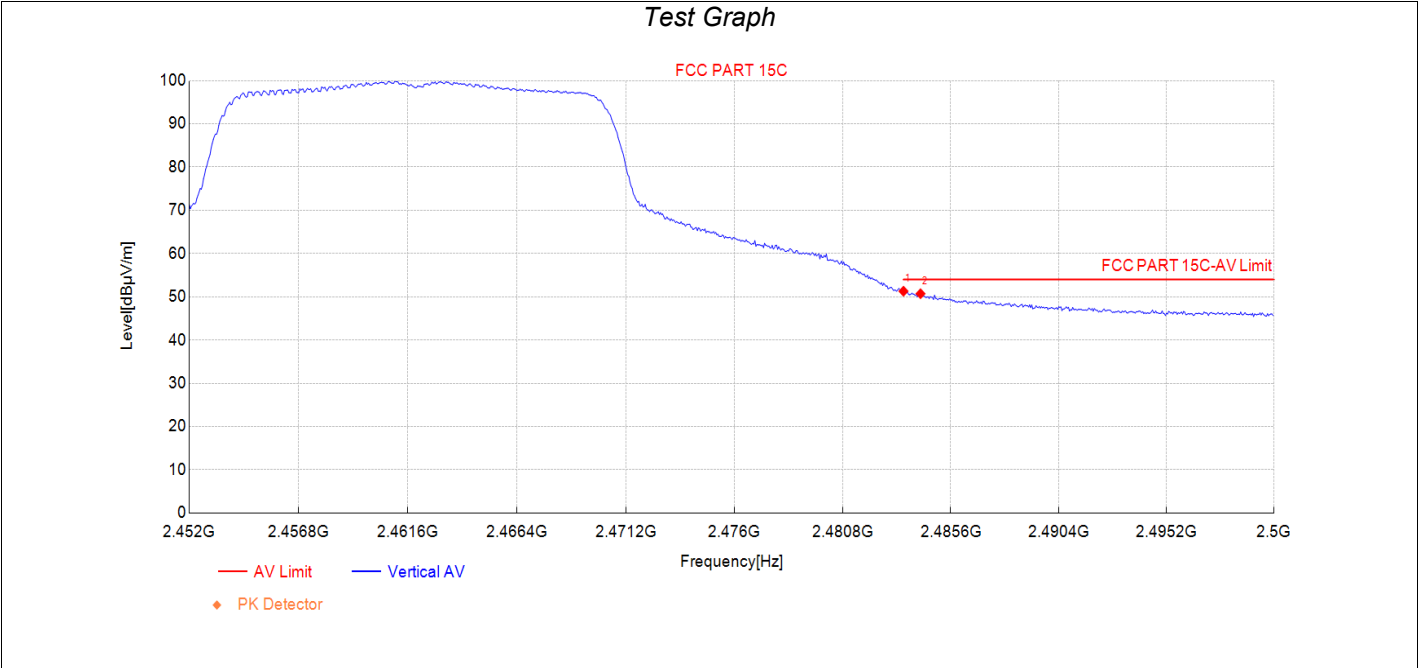
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.54	52.6	53.13	0.520	54.00	0.87	AV	Horizo	PASS
2	2484.78	51.1	51.57	0.520	54.00	2.43	AV	Horizo	PASS

Transmit at 2462MHz by 802.11g with Ant2



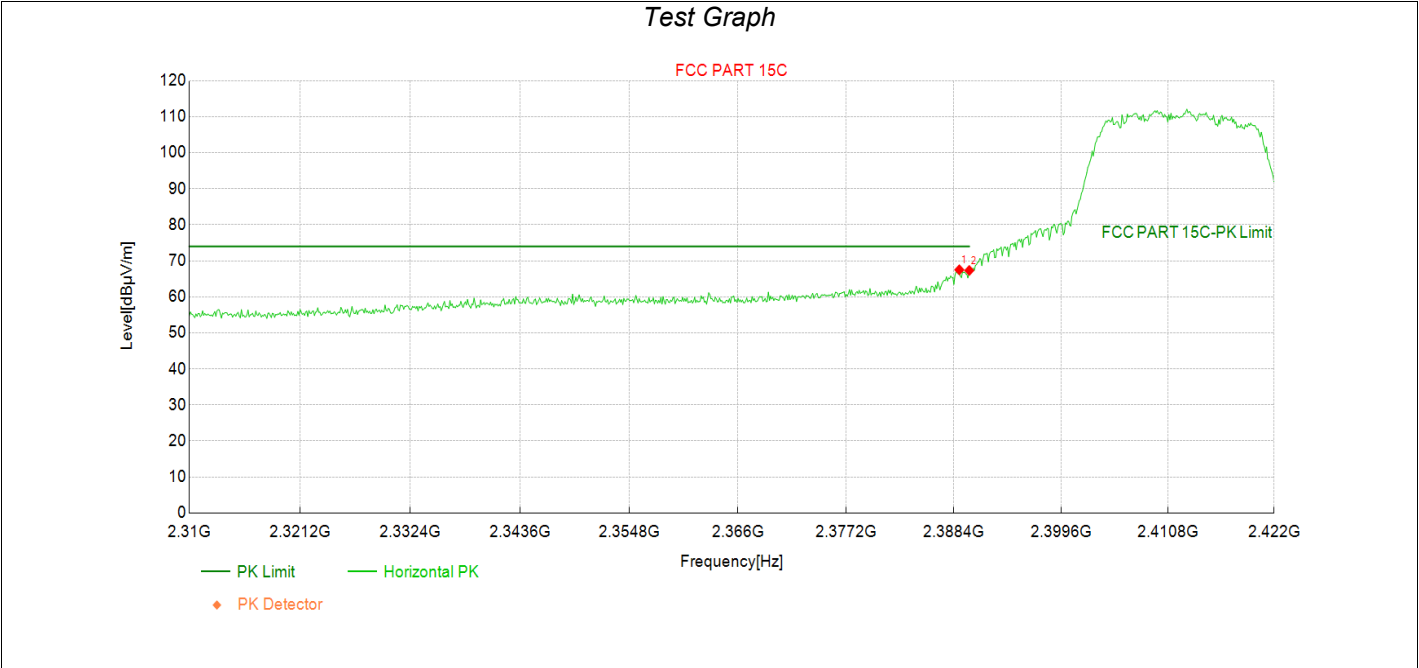
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2483.50	65.6	66.12	0.520	74.00	7.88	PK	Vertic	PASS
2	2483.82	68.9	69.38	0.520	74.00	4.62	PK	Vertic	PASS

Transmit at 2462MHz by 802.11g with Ant2



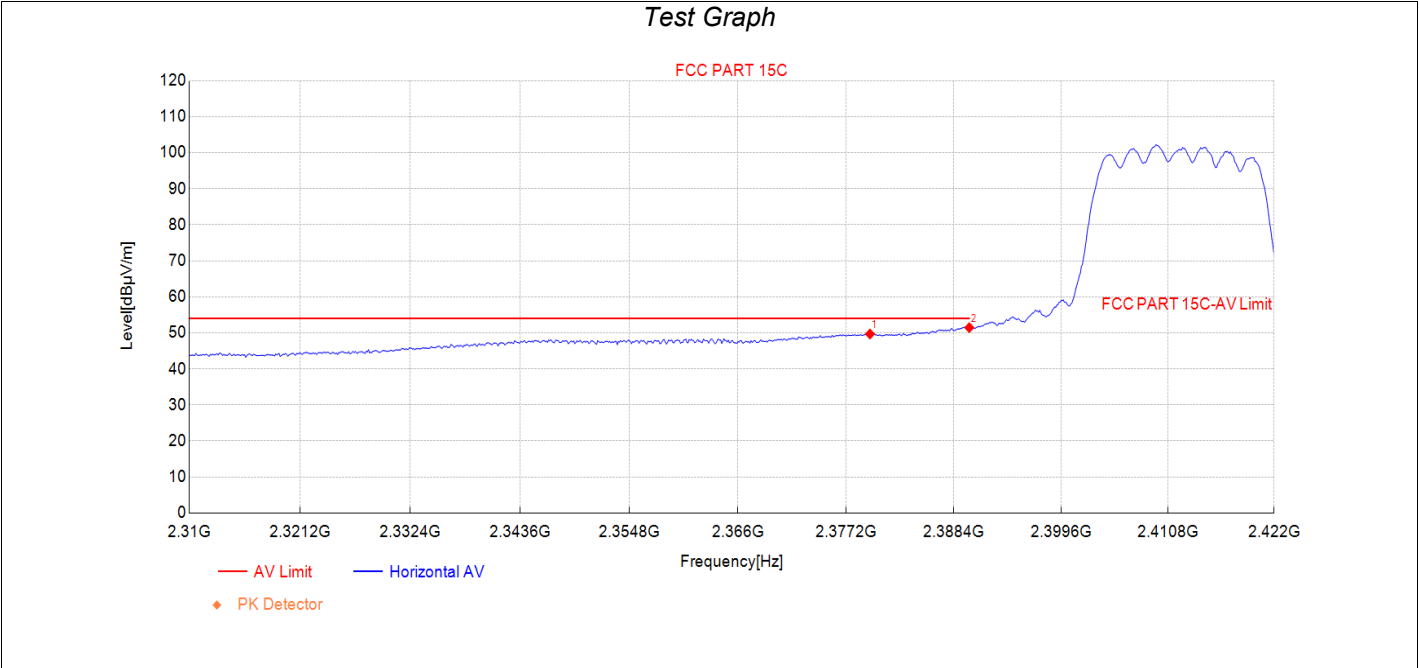
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	50.8	51.30	0.520	54.00	2.70	AV	Vertic	PASS
2	2484.26	50.2	50.72	0.520	54.00	3.28	AV	Vertic	PASS

Transmit at 2412MHz by 802.11n(20MHz) with Ant1+2



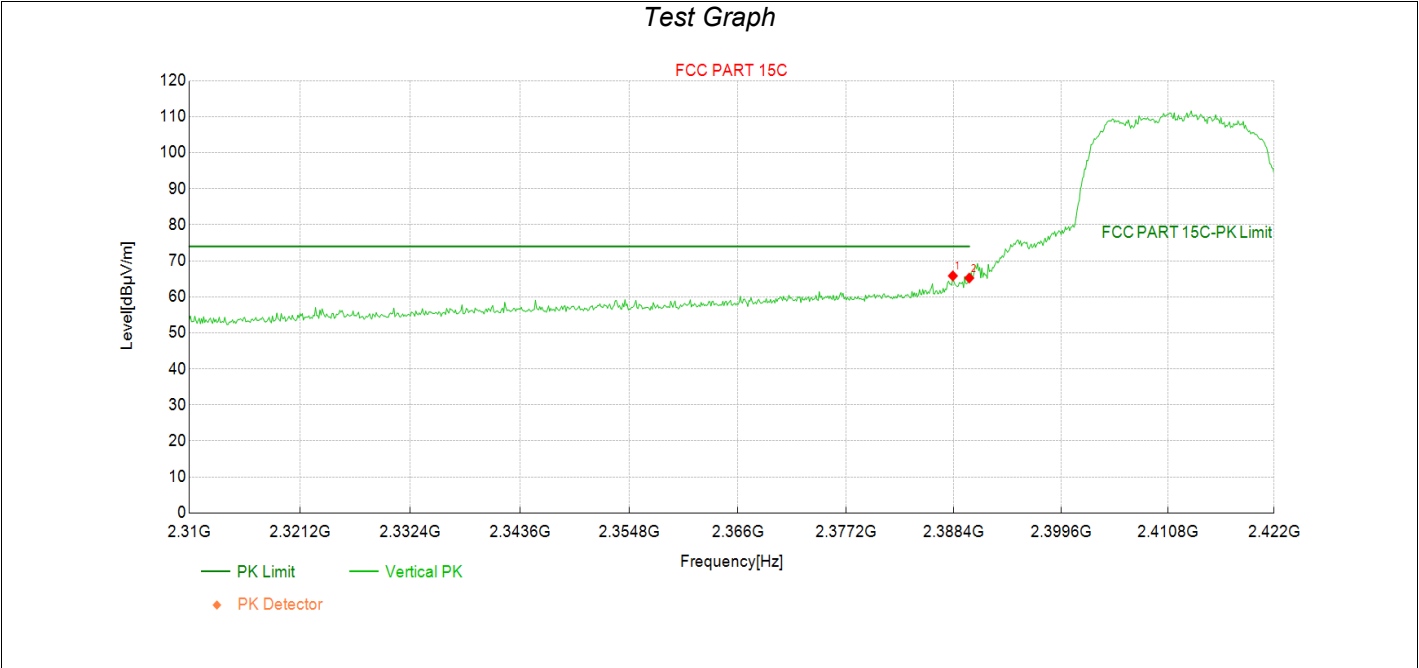
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.96	67.1	67.50	0.420	74.00	6.50	PK	Horizo	PASS
2	2390.00	66.9	67.31	0.420	74.00	6.69	PK	Horizo	PASS

Transmit at 2412MHz by 802.11n(20MHz) with Ant1+2



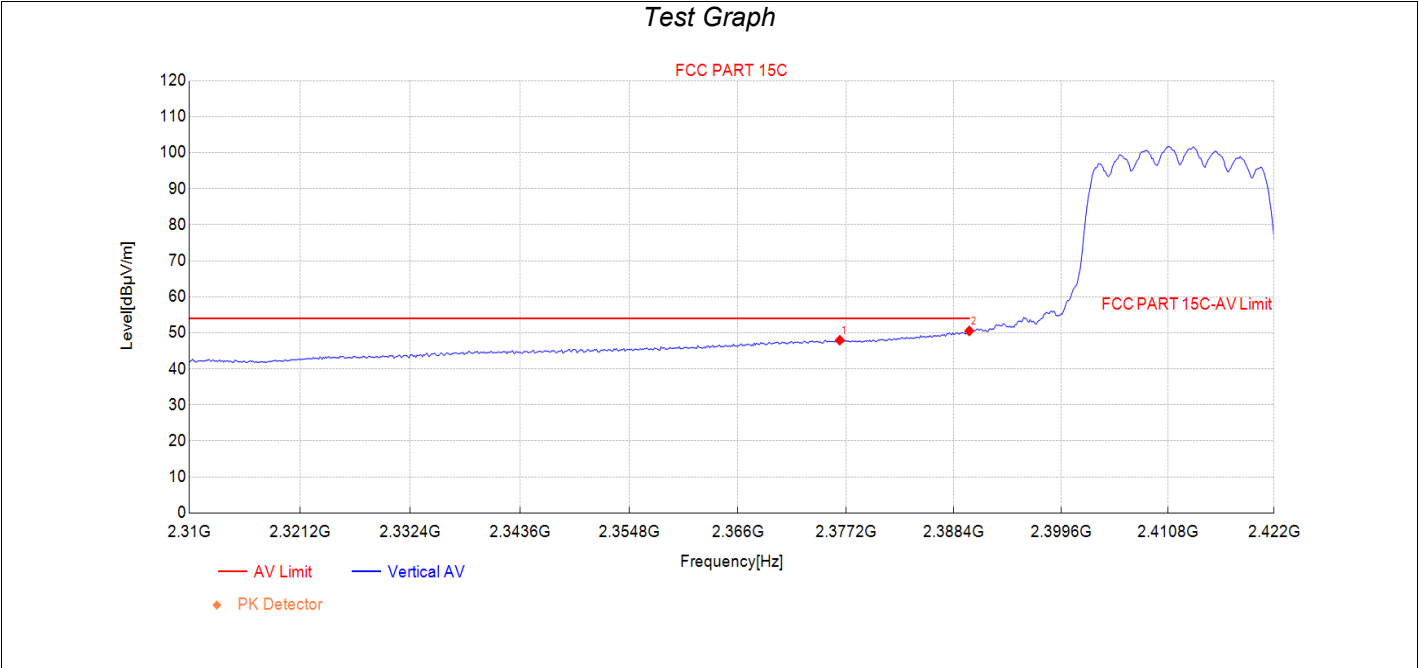
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2379.66	49.3	49.69	0.400	54.00	4.31	AV	Horizo	PASS
2	2390.00	51.0	51.45	0.420	54.00	2.55	AV	Horizo	PASS

Transmit at 2412MHz by 802.11n(20MHz) with Ant1+2



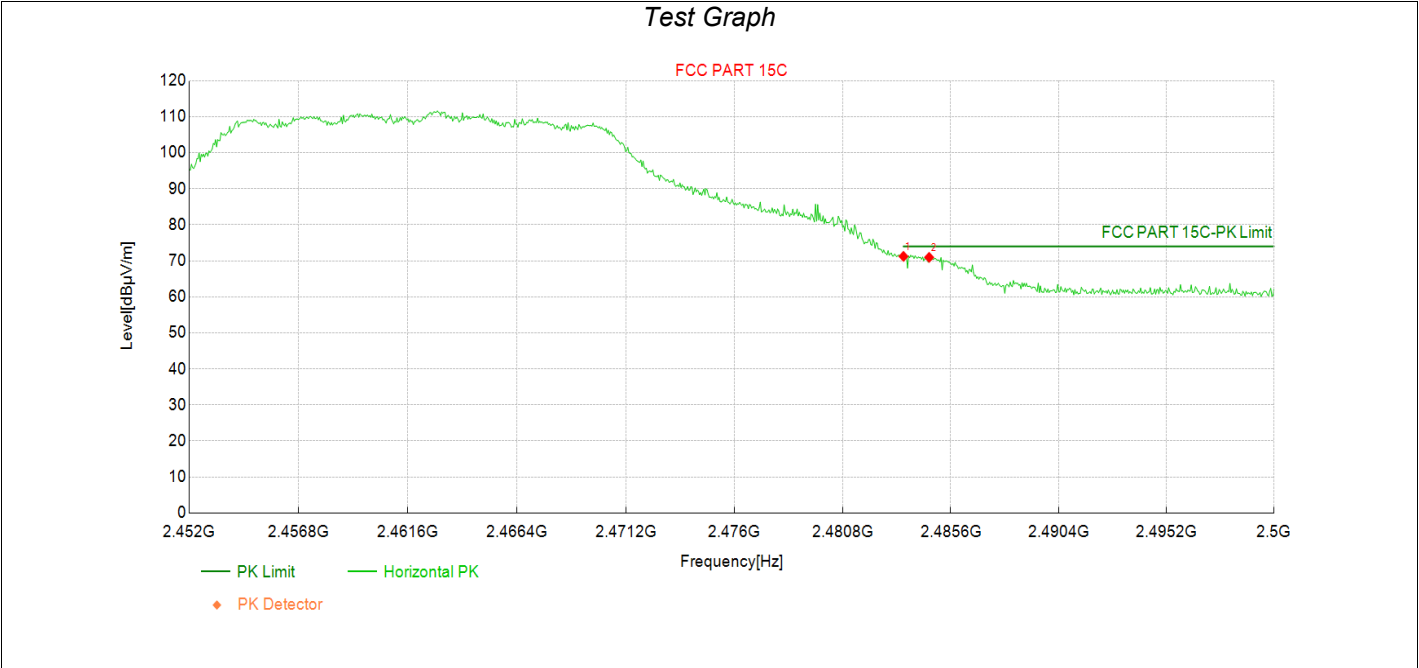
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.29	65.4	65.81	0.410	74.00	8.19	PK	Vertic	PASS
2	2390.00	64.8	65.22	0.420	74.00	8.78	PK	Vertic	PASS

Transmit at 2412MHz by 802.11n(20MHz) with Ant1+2



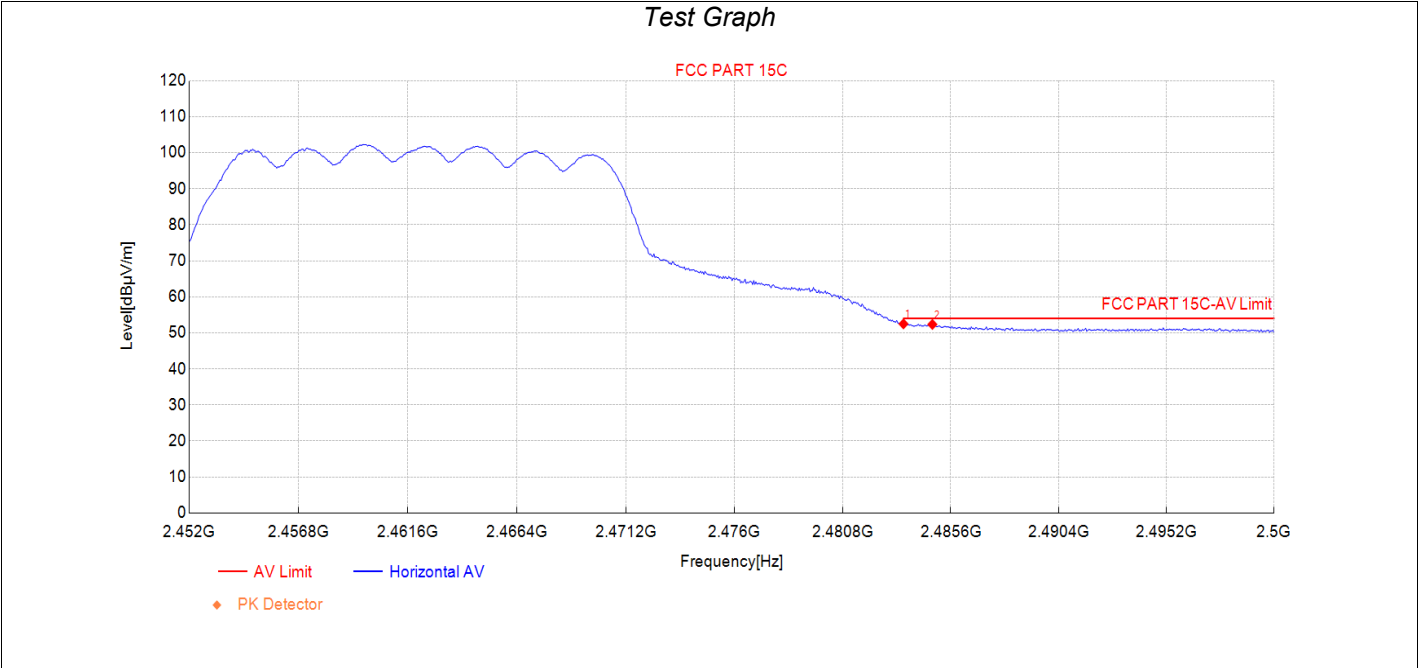
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2376.53	47.6	47.95	0.400	54.00	6.05	AV	Vertic	PASS
2	2390.00	50.1	50.54	0.420	54.00	3.46	AV	Vertic	PASS

Transmit at 2462MHz by 802.11n(20MHz) with Ant1+2



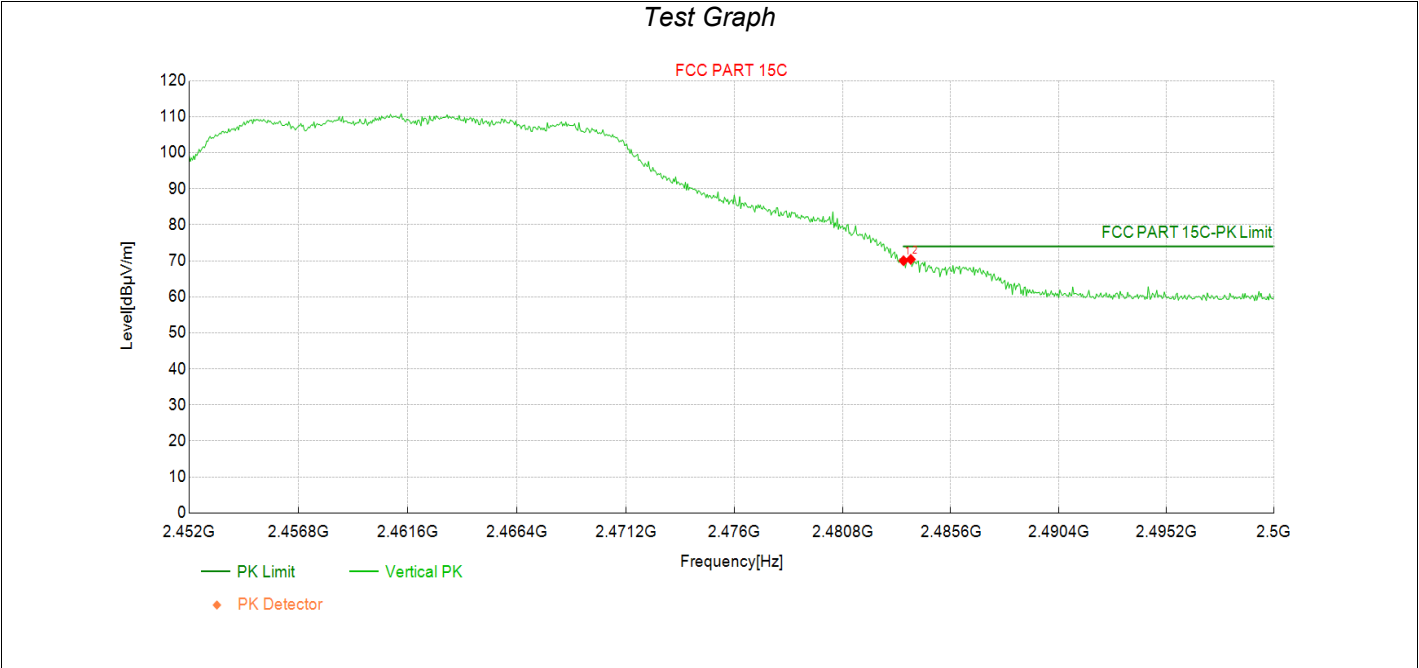
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	70.7	71.22	0.520	74.00	2.78	PK	Horizo	PASS
2	2484.64	70.4	70.95	0.520	74.00	3.05	PK	Horizo	PASS

Transmit at 2462MHz by 802.11n(20MHz) with Ant1+2



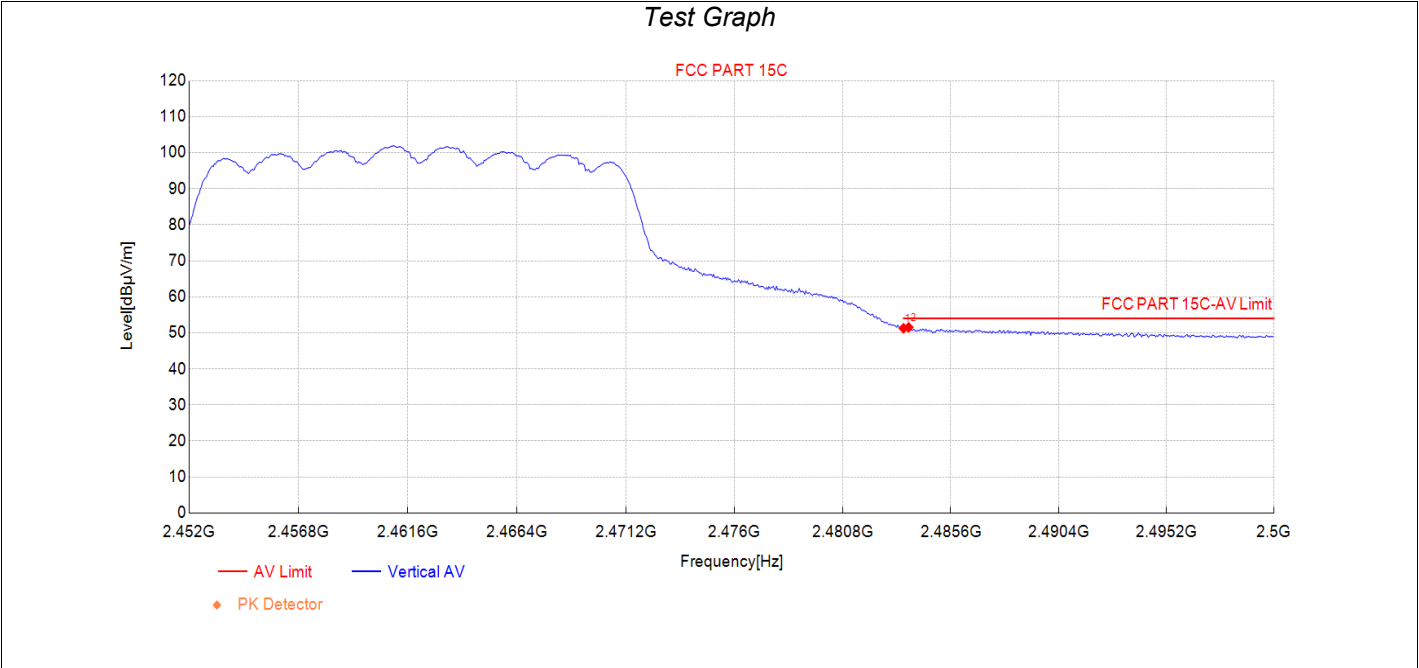
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2483.50	52.0	52.48	0.520	54.00	1.52	AV	Horizo	PASS
2	2484.78	51.8	52.34	0.520	54.00	1.66	AV	Horizo	PASS

Transmit at 2462MHz by 802.11n(20MHz) with Ant1+2



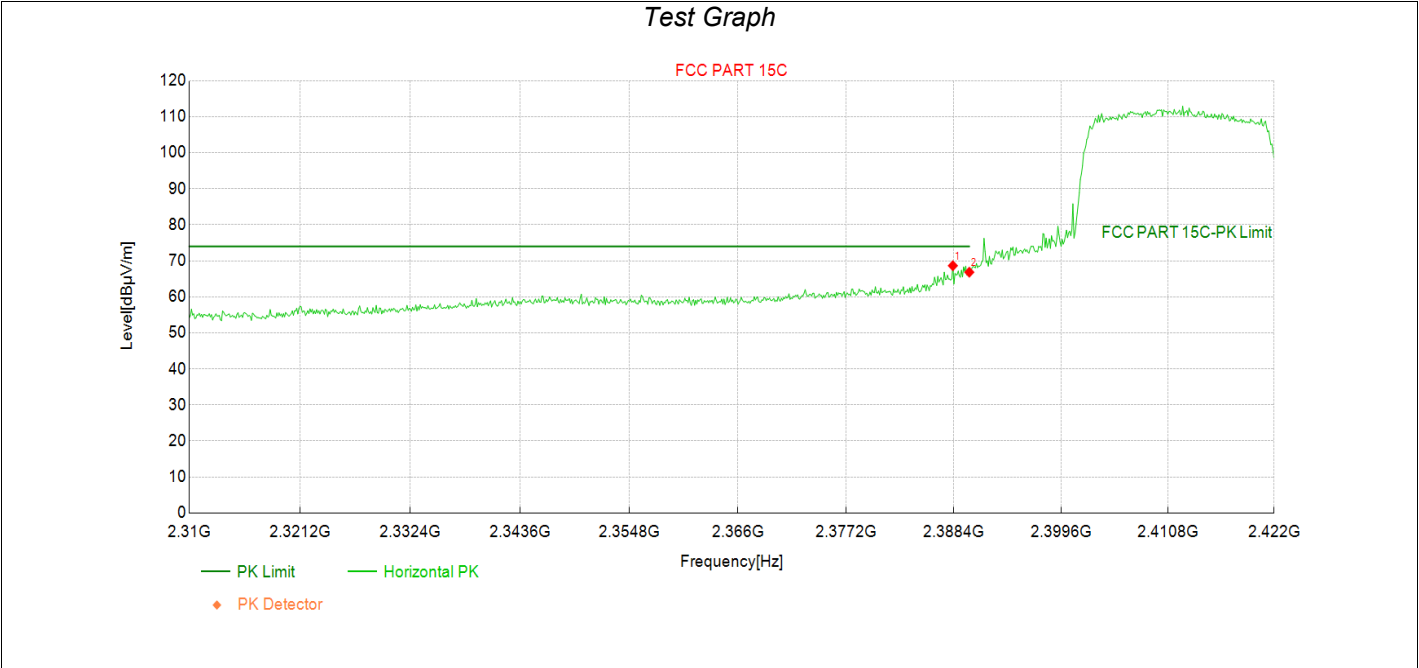
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	69.5	70.02	0.520	74.00	3.98	PK	Vertic	PASS
2	2483.82	69.9	70.40	0.520	74.00	3.60	PK	Vertic	PASS

Transmit at 2462MHz by 802.11n(20MHz) with Ant1+2



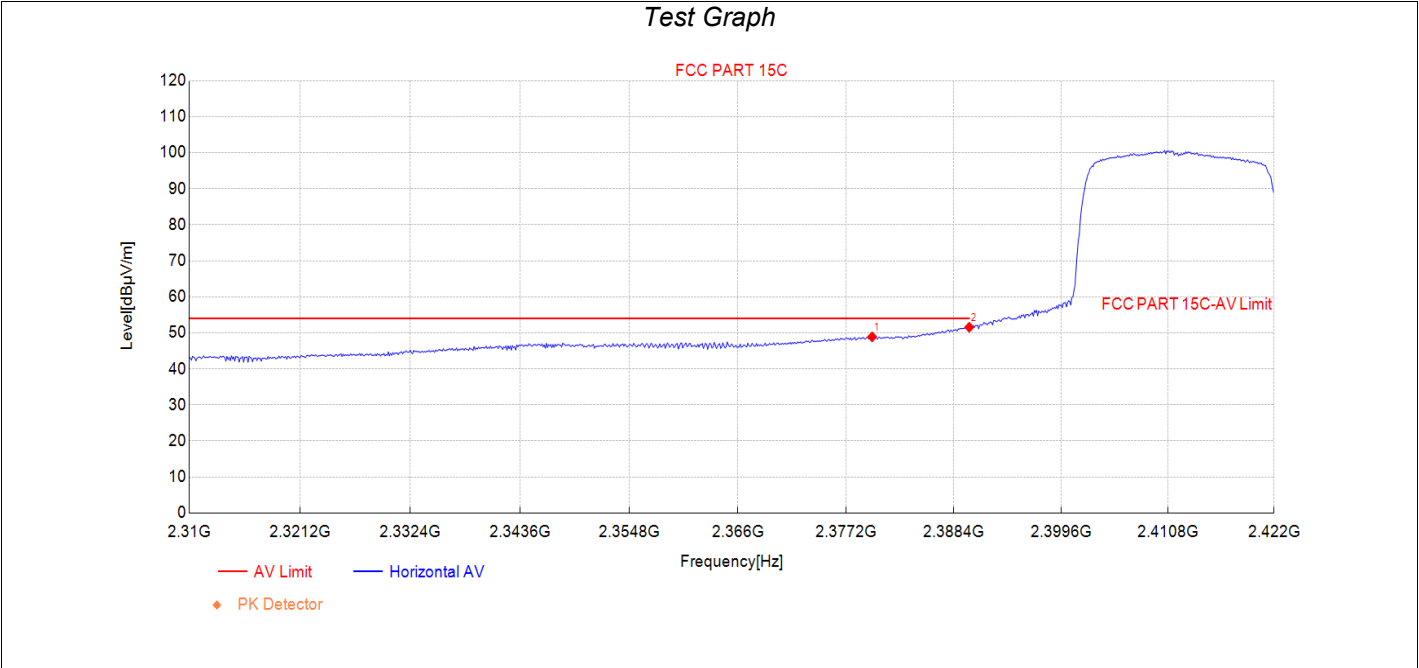
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	50.7	51.26	0.520	54.00	2.74	AV	Vertic	PASS
2	2483.73	51.0	51.53	0.520	54.00	2.47	AV	Vertic	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with Ant1+2



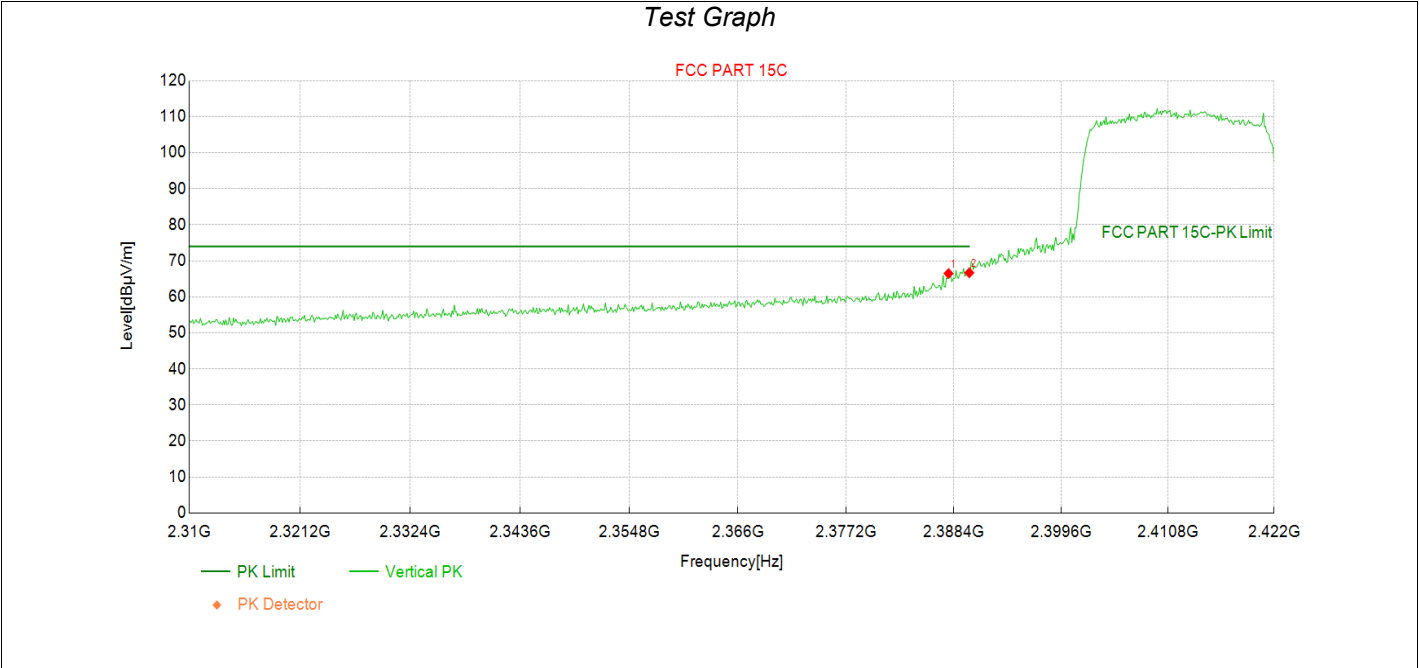
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.29	68.2	68.64	0.410	74.00	5.36	PK	Horizo	PASS
2	2390.00	66.4	66.83	0.420	74.00	7.17	PK	Horizo	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with Ant1+2



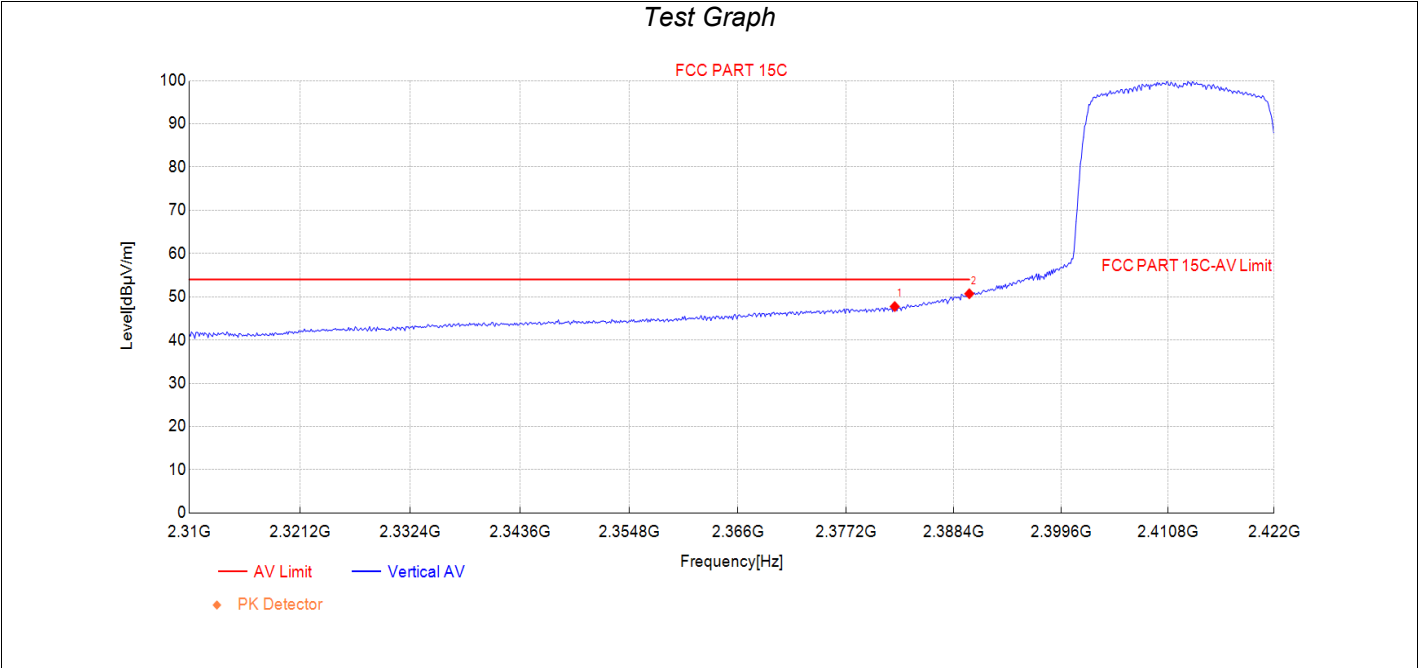
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2379.89	48.5	48.89	0.400	54.00	5.11	AV	Horizo	PASS
2	2390.00	51.1	51.55	0.420	54.00	2.45	AV	Horizo	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with Ant1+2



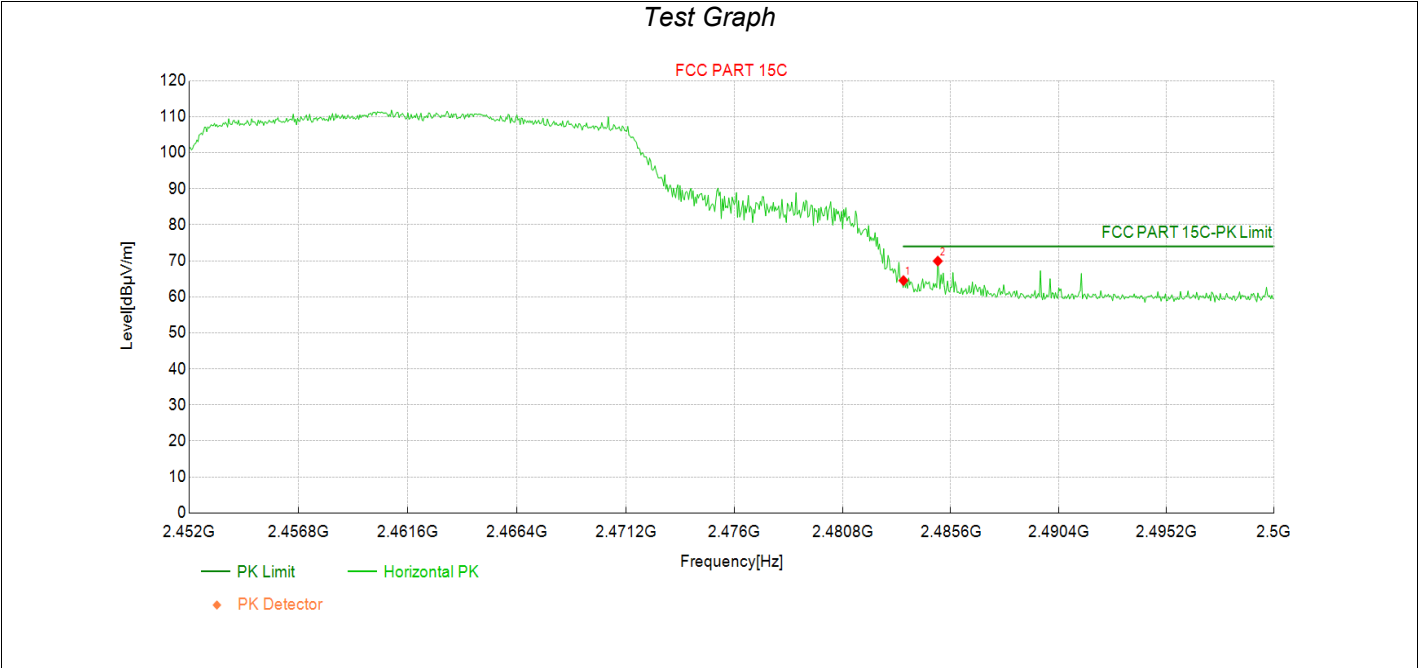
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2387.84	66.1	66.47	0.410	74.00	7.53	PK	Vertic	PASS
2	2390.00	66.3	66.68	0.420	74.00	7.32	PK	Vertic	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with Ant1+2



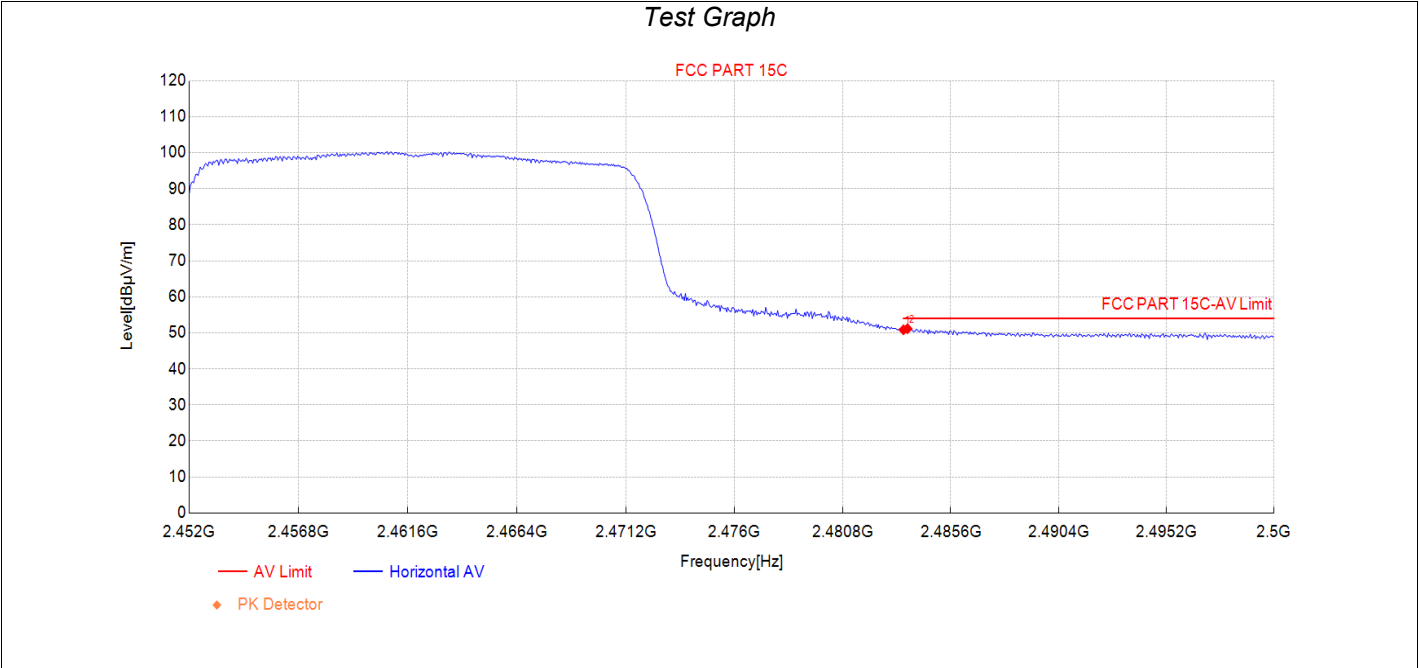
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2382.24	47.3	47.75	0.410	54.00	6.25	AV	Vertic	PASS
2	2390.00	50.3	50.71	0.420	54.00	3.29	AV	Vertic	PASS

Transmit at 2462MHz by 802.11ax(20MHz) with Ant1+2



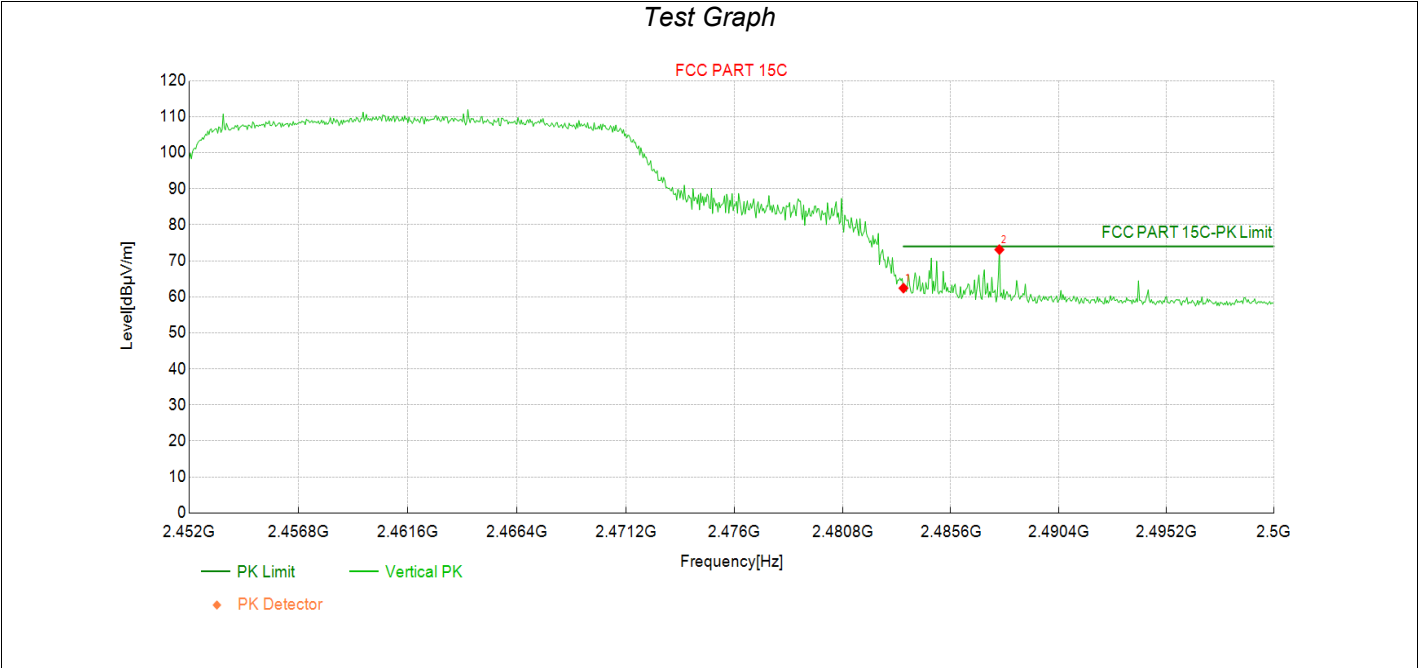
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	64.0	64.52	0.520	74.00	9.48	PK	Horizo	PASS
2	2485.02	69.4	69.92	0.520	74.00	4.08	PK	Horizo	PASS

Transmit at 2462MHz by 802.11ax(20MHz) with Ant1+2



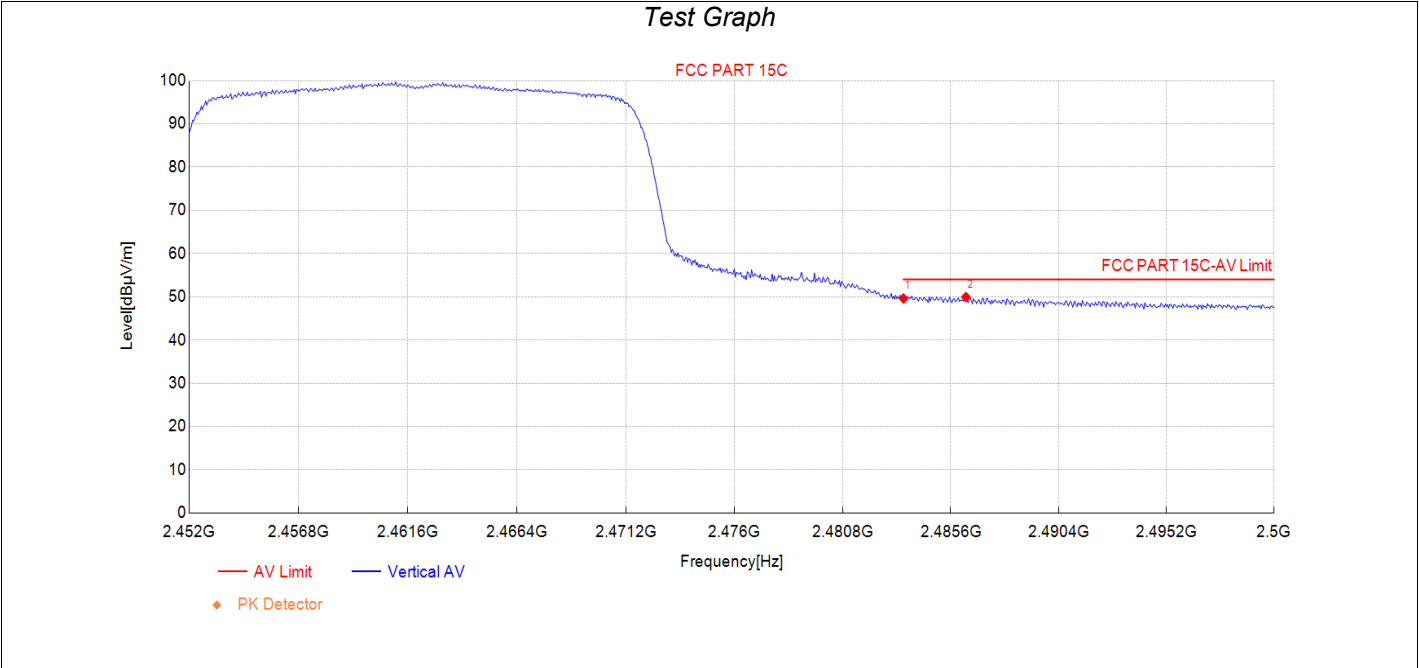
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	50.3	50.85	0.520	54.00	3.15	AV	Horizo	PASS
2	2483.68	50.6	51.15	0.520	54.00	2.85	AV	Horizo	PASS

Transmit at 2462MHz by 802.11ax(20MHz) with Ant1+2



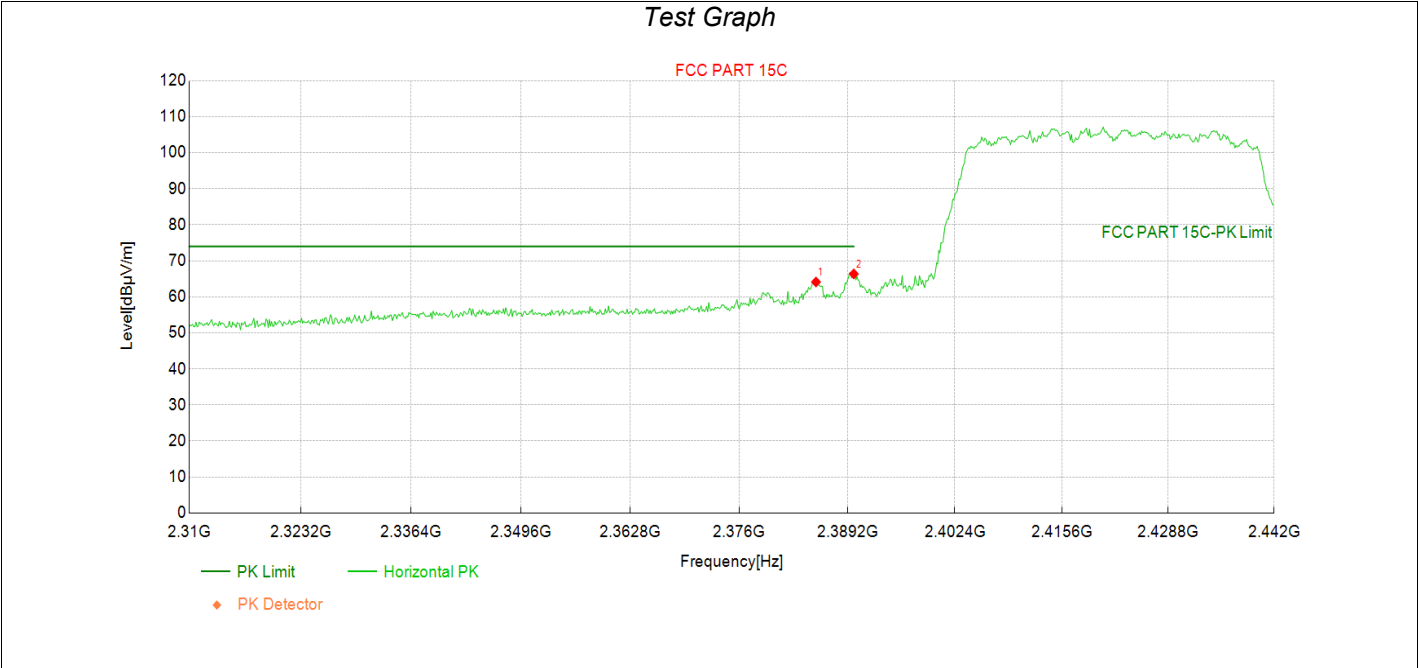
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	61.9	62.41	0.520	74.00	11.59	PK	Vertic	PASS
2	2487.76	72.6	73.09	0.540	74.00	0.91	PK	Vertic	PASS

Transmit at 2462MHz by 802.11ax(20MHz) with Ant1+2



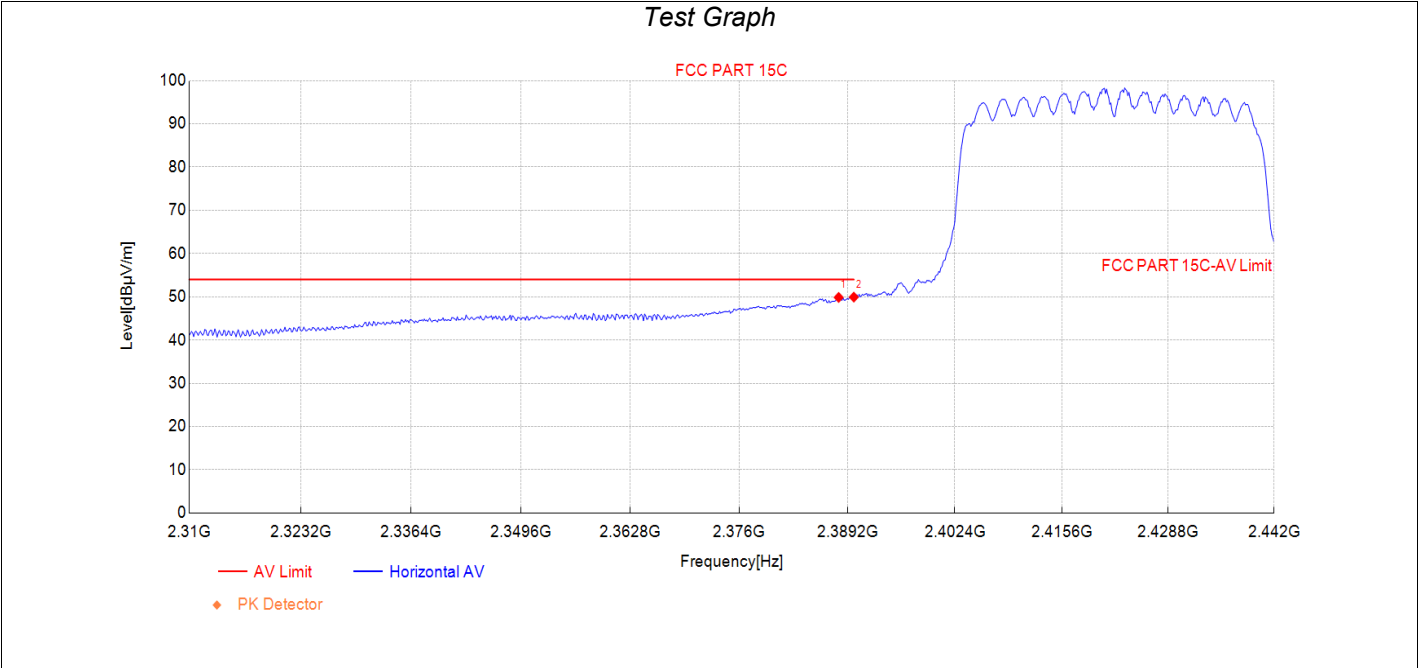
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	49.1	49.62	0.520	54.00	4.38	AV	Vertic	PASS
2	2486.27	49.4	49.95	0.520	54.00	4.05	AV	Vertic	PASS

Transmit at 2422MHz by 802.11n(40MHz) with Ant1+2



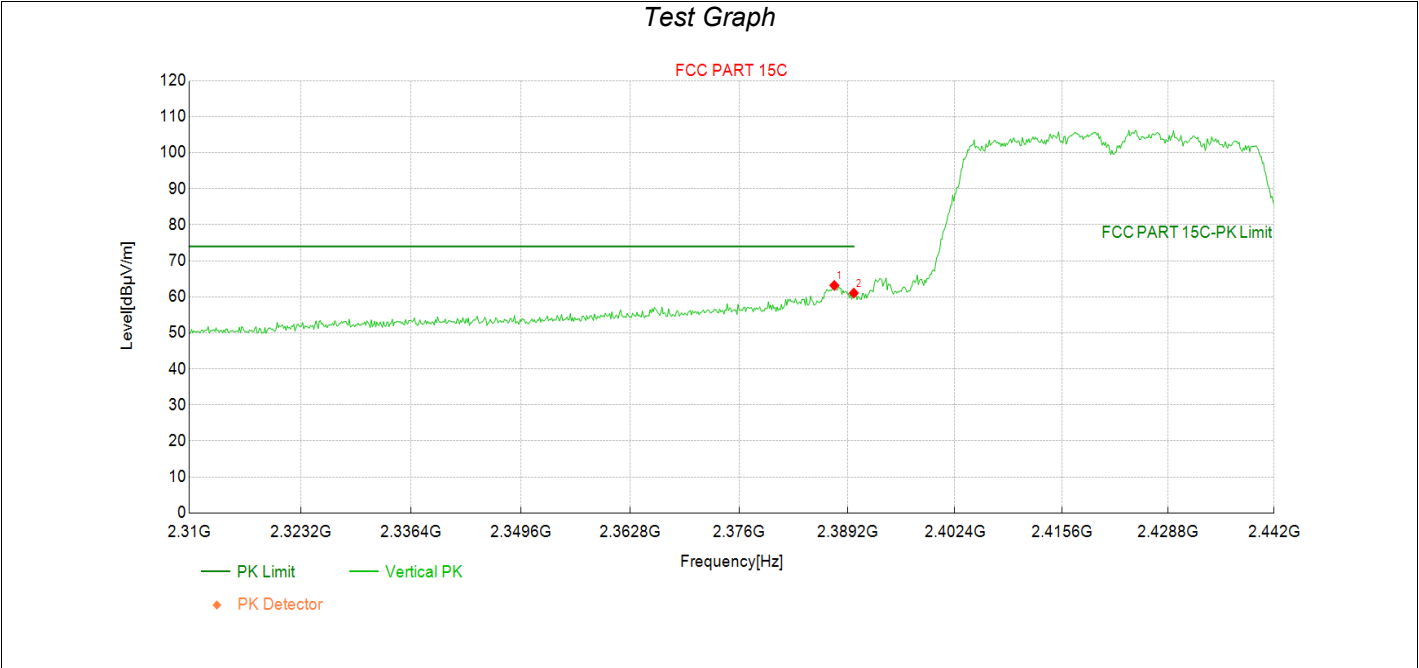
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2385.37	63.7	64.11	0.410	74.00	9.89	PK	Horizo	PASS
2	2390.00	65.9	66.35	0.420	74.00	7.65	PK	Horizo	PASS

Transmit at 2422MHz by 802.11n(40MHz) with Ant1+2



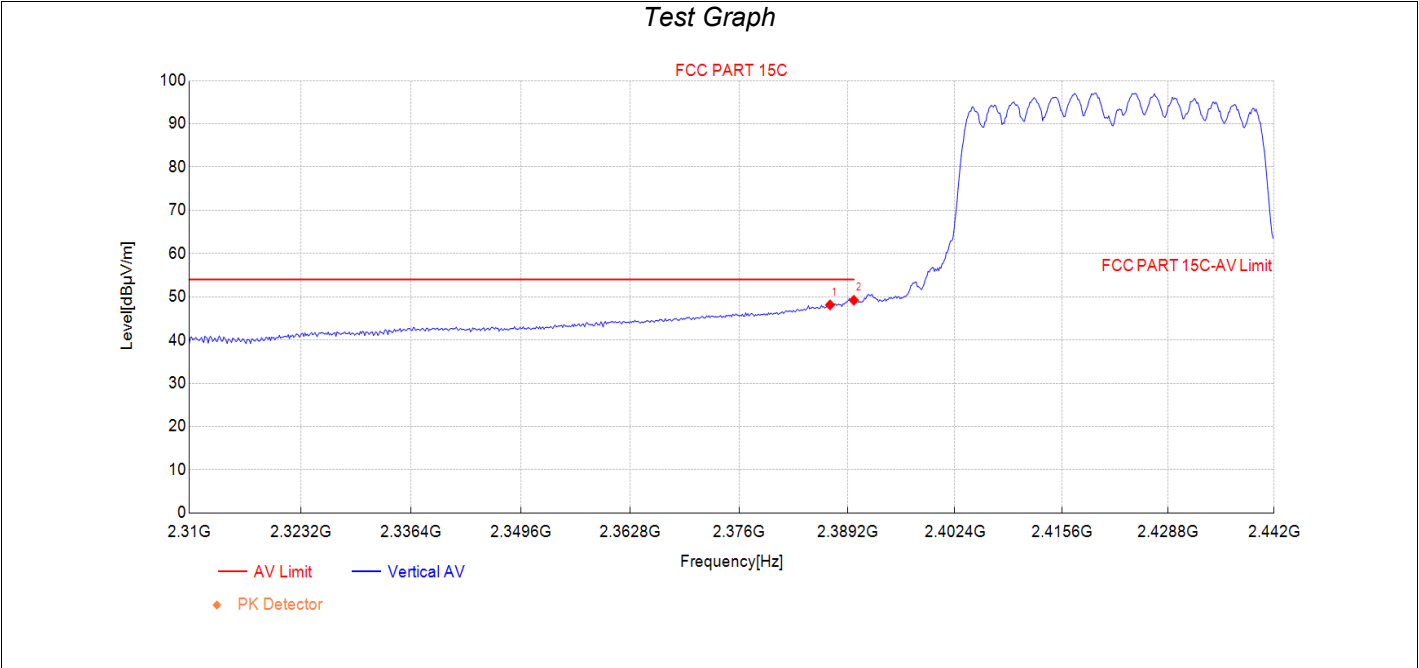
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.14	49.5	49.86	0.410	54.00	4.14	AV	Horizo	PASS
2	2390.00	49.5	49.93	0.420	54.00	4.07	AV	Horizo	PASS

Transmit at 2422MHz by 802.11n(40MHz) with Ant1+2



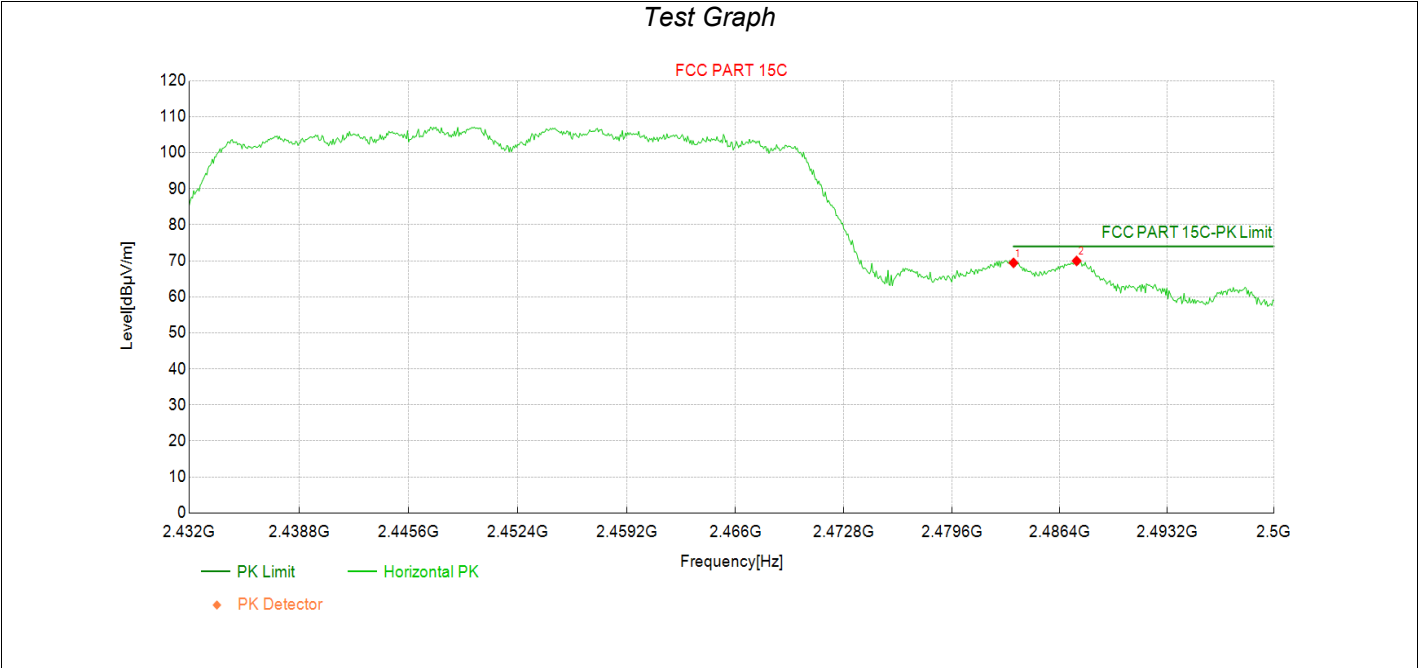
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2387.62	62.8	63.17	0.410	74.00	10.83	PK	Vertic	PASS
2	2390.00	60.6	61.04	0.420	74.00	12.96	PK	Vertic	PASS

Transmit at 2422MHz by 802.11n(40MHz) with Ant1+2



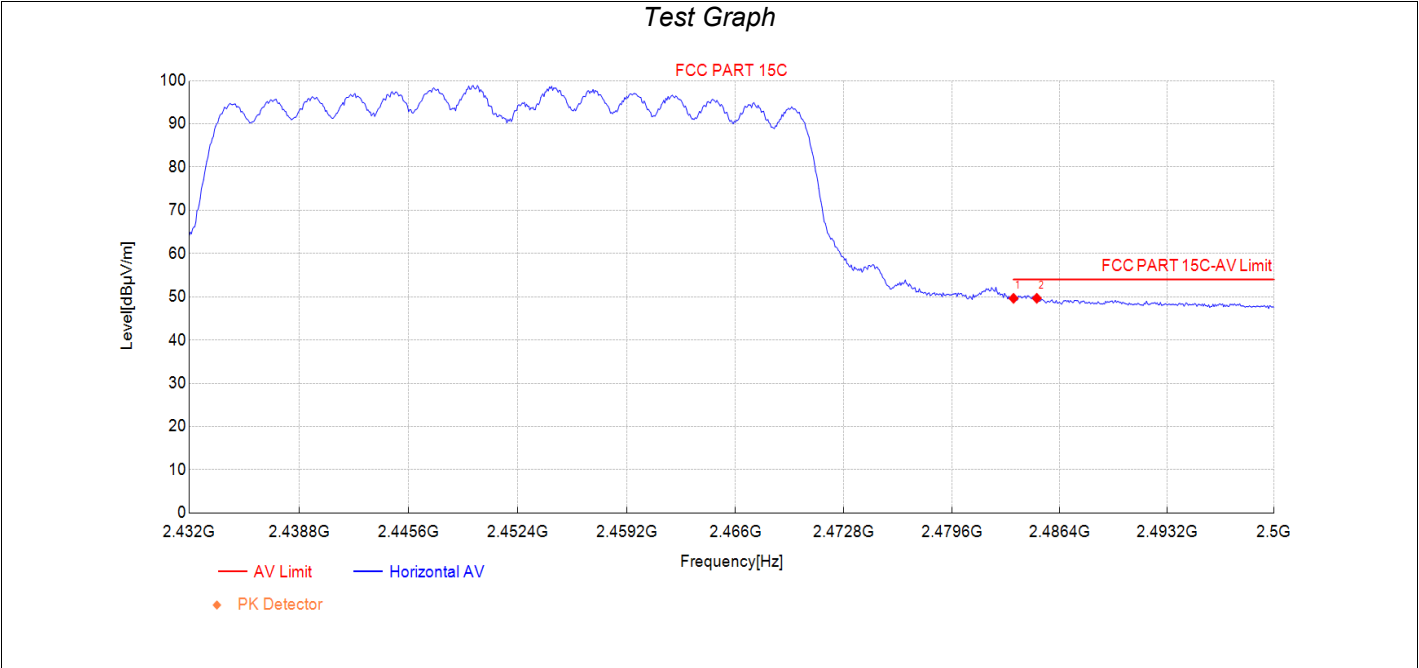
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.09	47.7	48.13	0.410	54.00	5.87	AV	Vertic	PASS
2	2390.00	48.8	49.21	0.420	54.00	4.79	AV	Vertic	PASS

Transmit at 2452MHz by 802.11n(40MHz) with Ant1+2



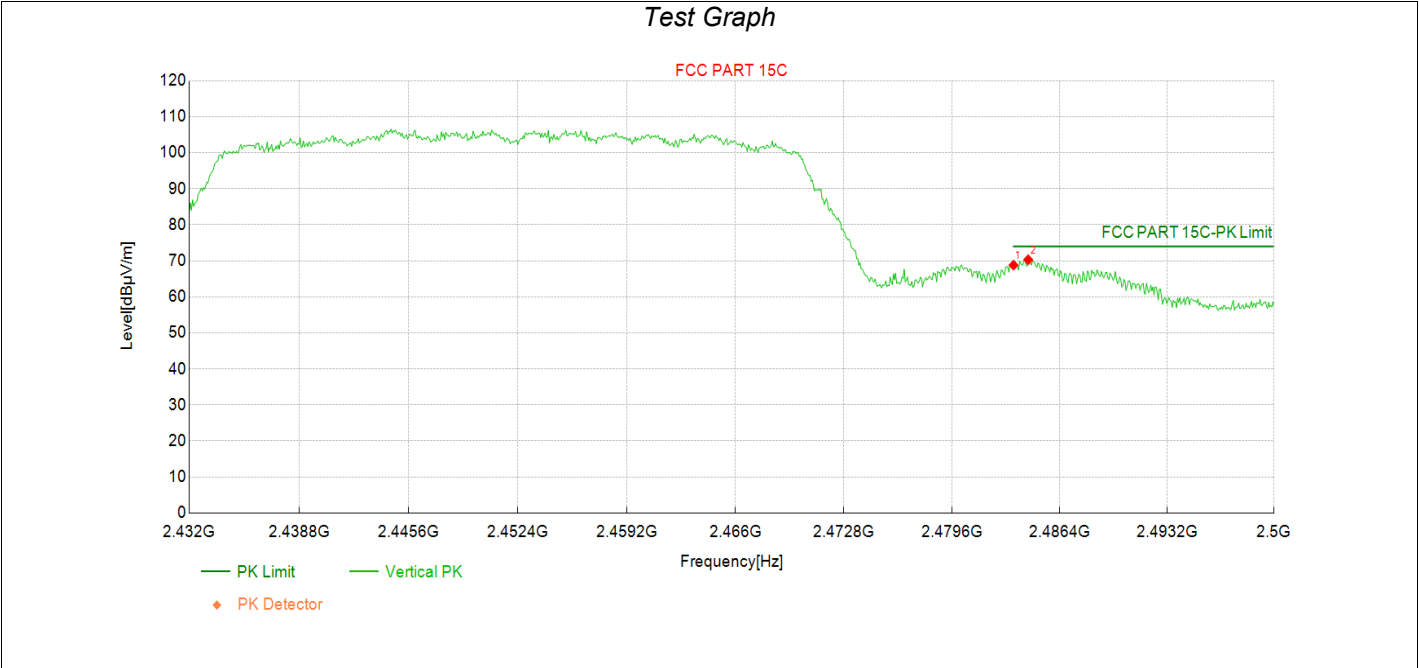
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	68.9	69.43	0.520	74.00	4.57	PK	Horizo	PASS
2	2487.49	69.4	69.95	0.520	74.00	4.05	PK	Horizo	PASS

Transmit at 2452MHz by 802.11n(40MHz) with Ant1+2



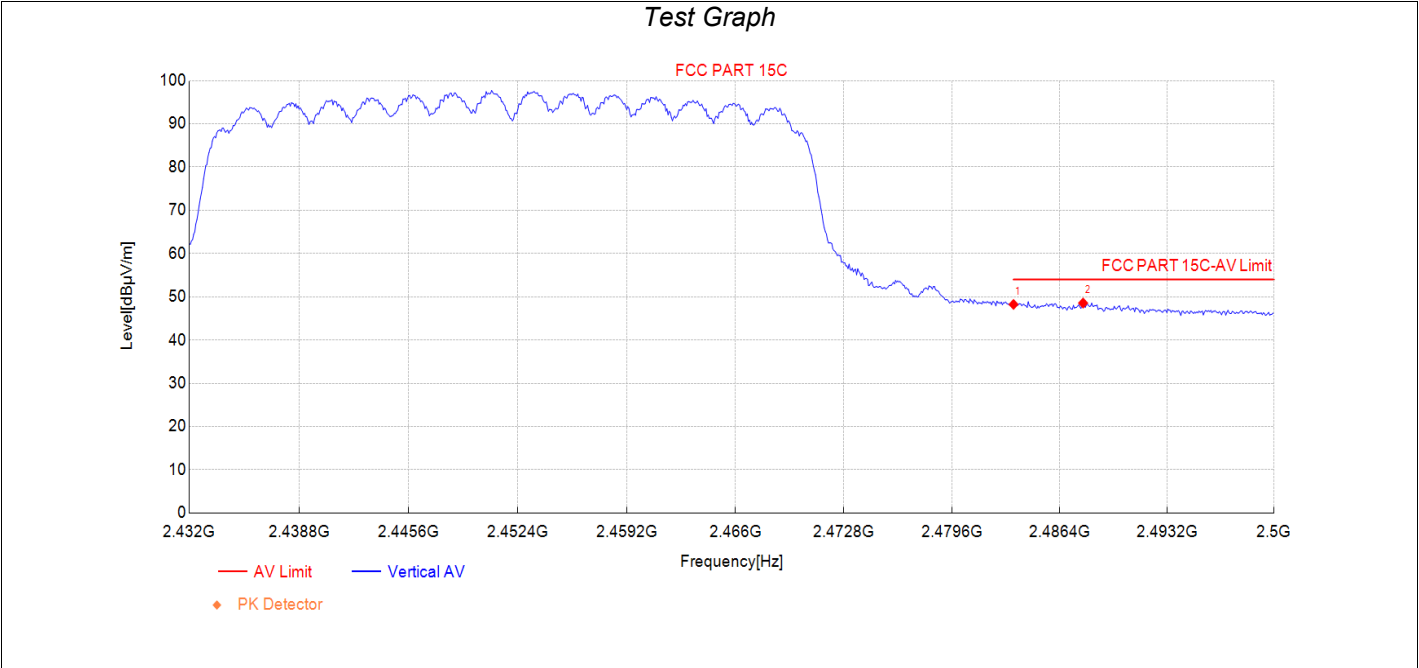
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	49.1	49.65	0.520	54.00	4.35	AV	Horizo	PASS
2	2484.97	49.1	49.66	0.520	54.00	4.34	AV	Horizo	PASS

Transmit at 2452MHz by 802.11n(40MHz) with Ant1+2



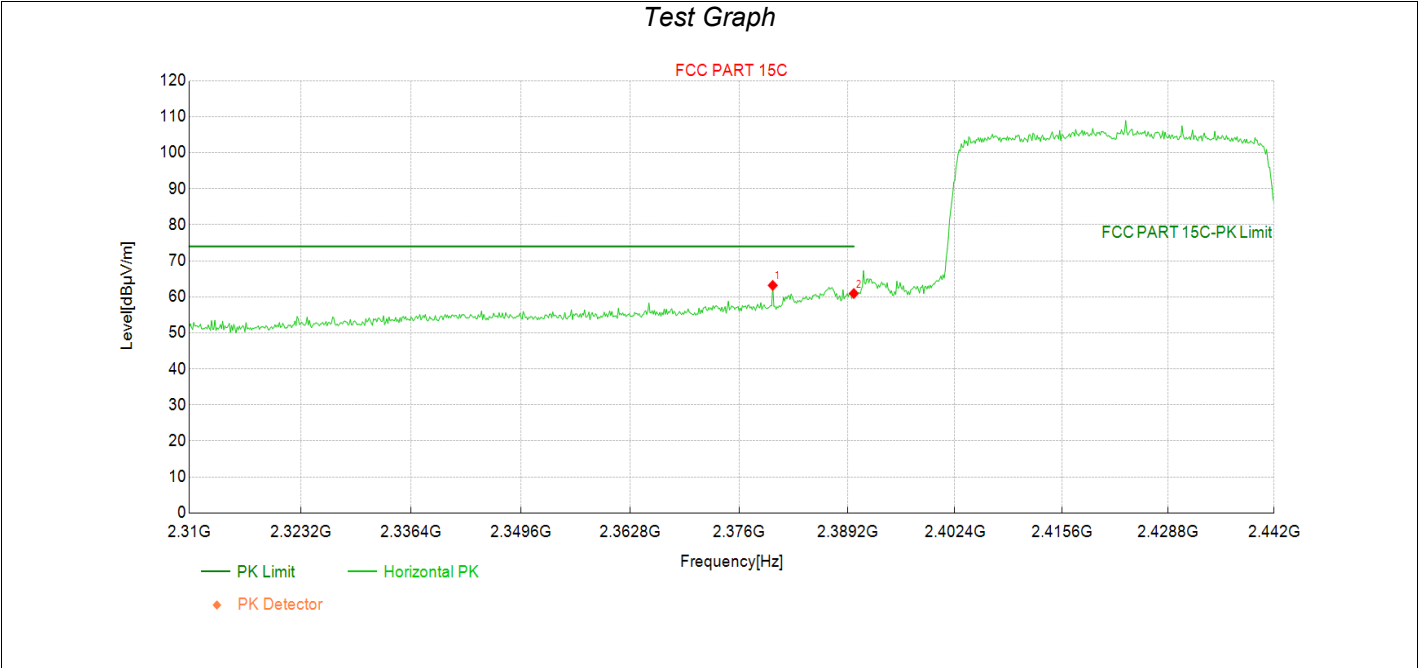
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	68.3	68.79	0.520	74.00	5.21	PK	Vertic	PASS
2	2484.43	69.8	70.30	0.520	74.00	3.70	PK	Vertic	PASS

Transmit at 2452MHz by 802.11n(40MHz) with Ant1+2



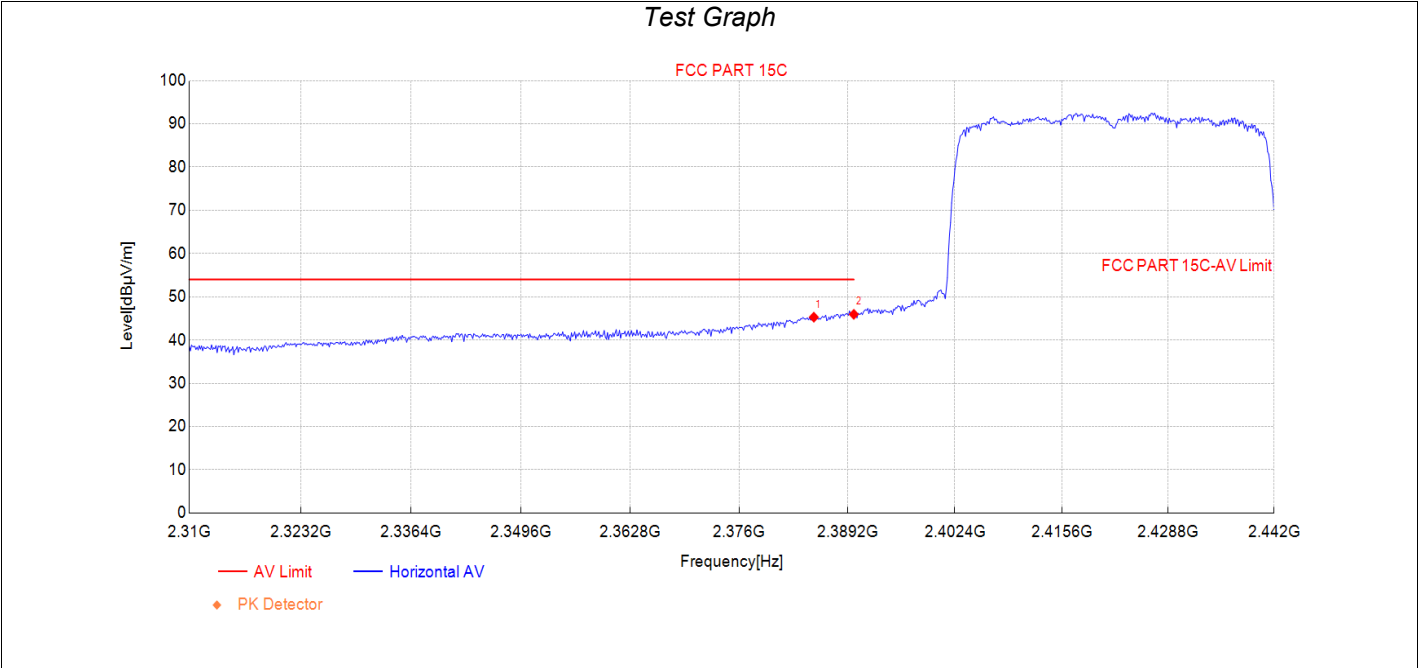
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	47.7	48.24	0.520	54.00	5.76	AV	Vertic	PASS
2	2487.90	48.0	48.56	0.540	54.00	5.44	AV	Vertic	PASS

Transmit at 2422MHz by 802.11ax(40MHz) with Ant1+2



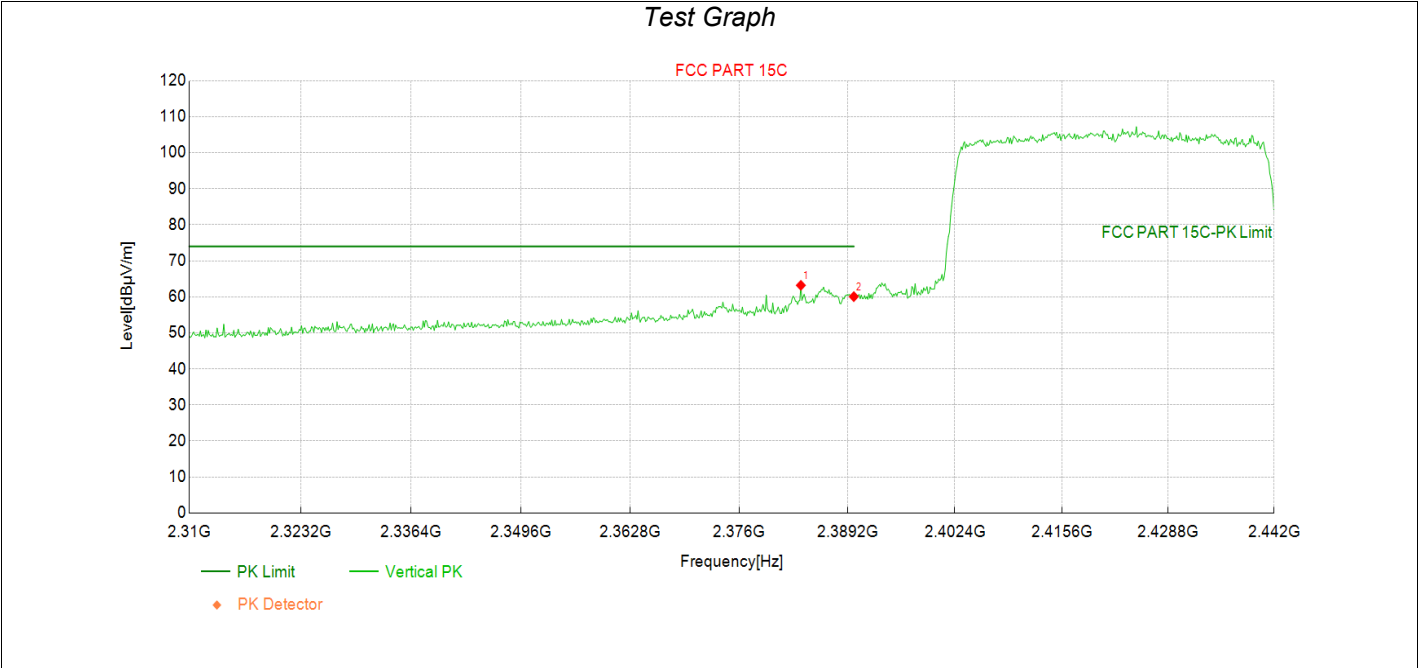
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2380.09	62.8	63.18	0.400	74.00	10.82	PK	Horizo	PASS
2	2390.00	60.5	60.93	0.420	74.00	13.07	PK	Horizo	PASS

Transmit at 2422MHz by 802.11ax(40MHz) with Ant1+2



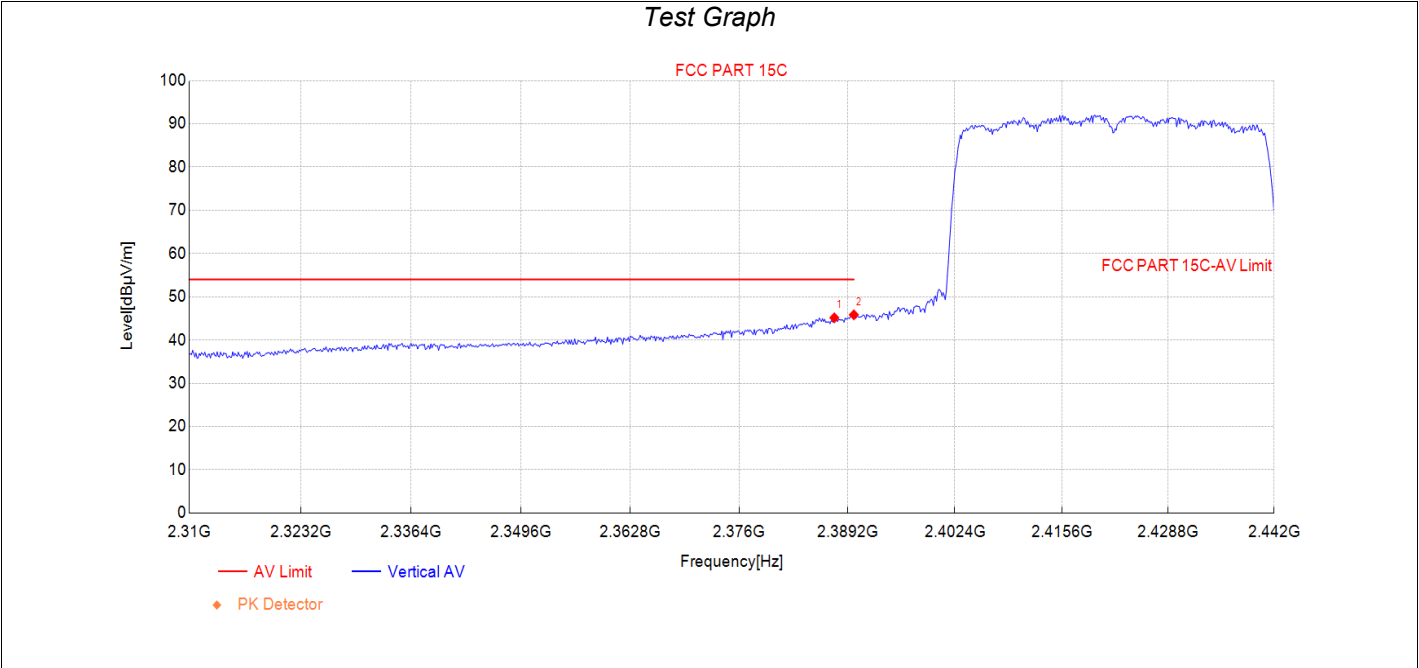
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2385.11	44.9	45.29	0.410	54.00	8.71	AV	Horizo	PASS
2	2390.00	45.5	45.95	0.420	54.00	8.05	AV	Horizo	PASS

Transmit at 2422MHz by 802.11ax(40MHz) with Ant1+2



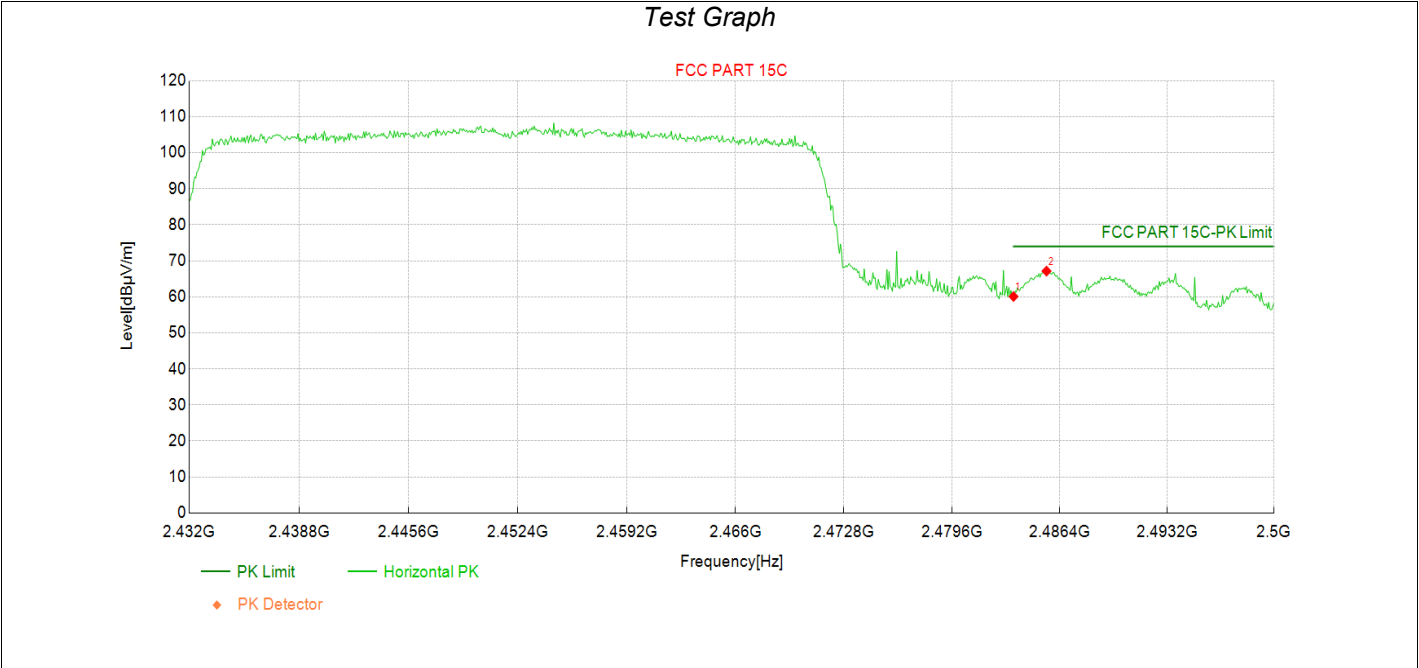
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2383.52	62.8	63.19	0.410	74.00	10.81	PK	Vertic	PASS
2	2390.00	59.6	60.06	0.420	74.00	13.94	PK	Vertic	PASS

Transmit at 2422MHz by 802.11ax(40MHz) with Ant1+2



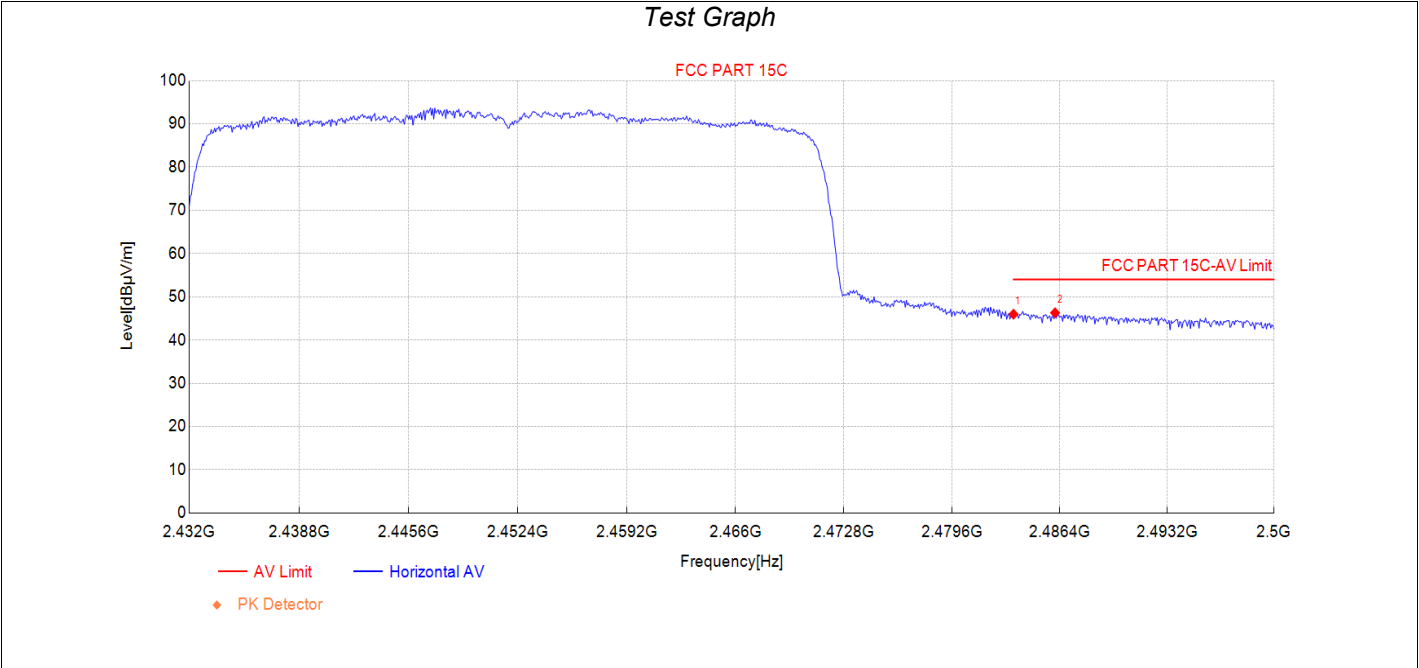
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.62	44.7	45.15	0.410	54.00	8.85	AV	Vertic	PASS
2	2390.00	45.4	45.84	0.420	54.00	8.16	AV	Vertic	PASS

Transmit at 2452MHz by 802.11ax(40MHz) with Ant1+2



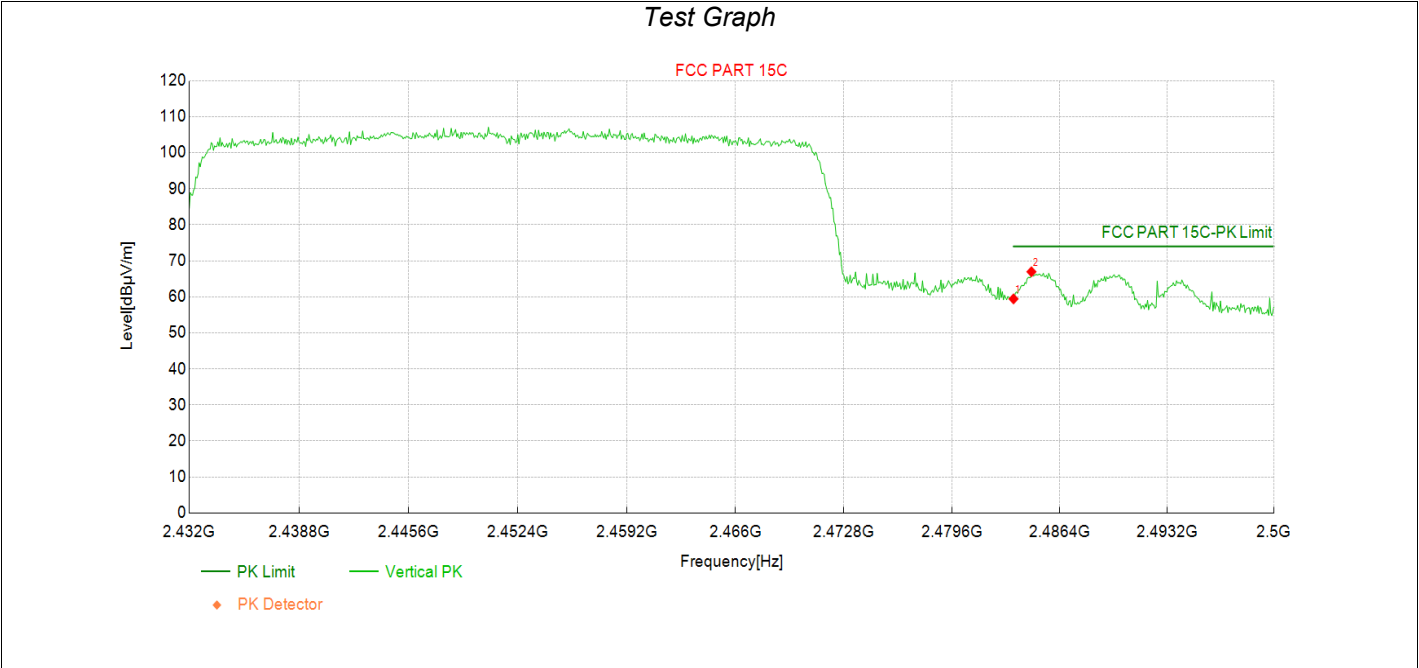
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	59.6	60.08	0.520	74.00	13.92	PK	Horizo	PASS
2	2485.58	66.6	67.14	0.520	74.00	6.86	PK	Horizo	PASS

Transmit at 2452MHz by 802.11ax(40MHz) with Ant1+2



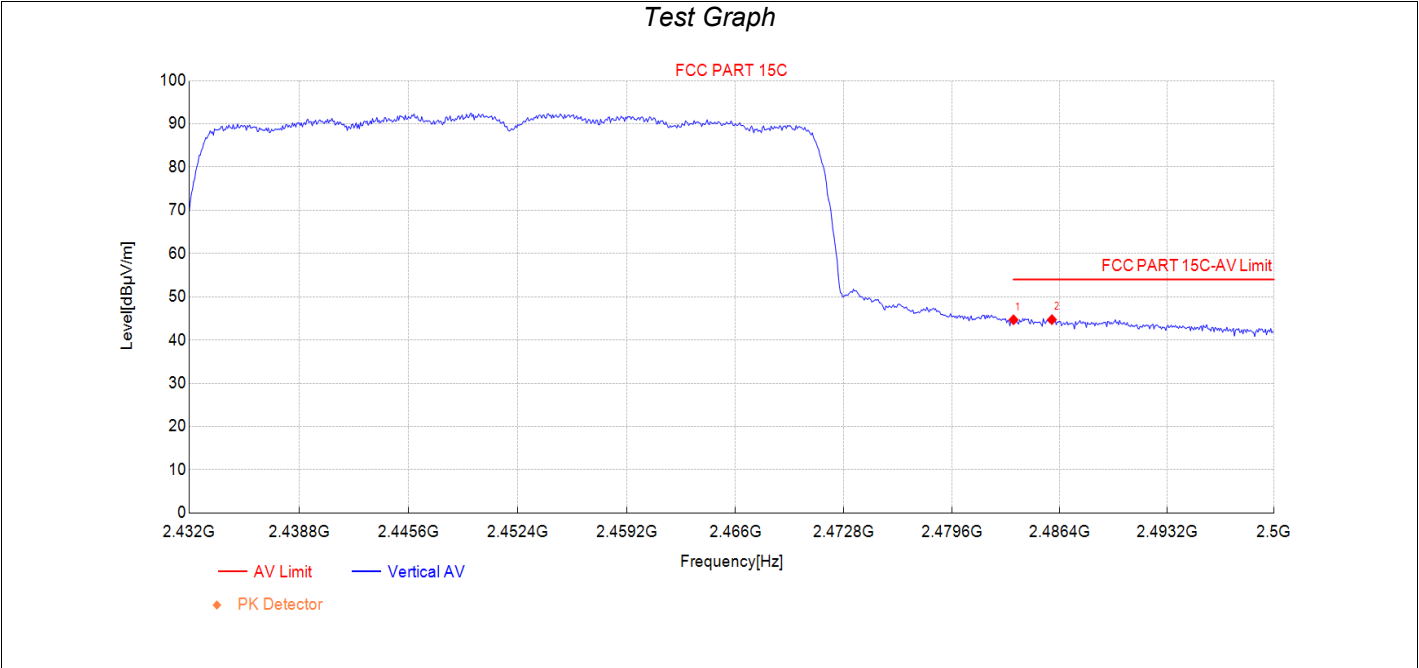
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	45.5	45.98	0.520	54.00	8.02	AV	Horizo	PASS
2	2486.13	45.8	46.31	0.520	54.00	7.69	AV	Horizo	PASS

Transmit at 2452MHz by 802.11ax(40MHz) with Ant1+2



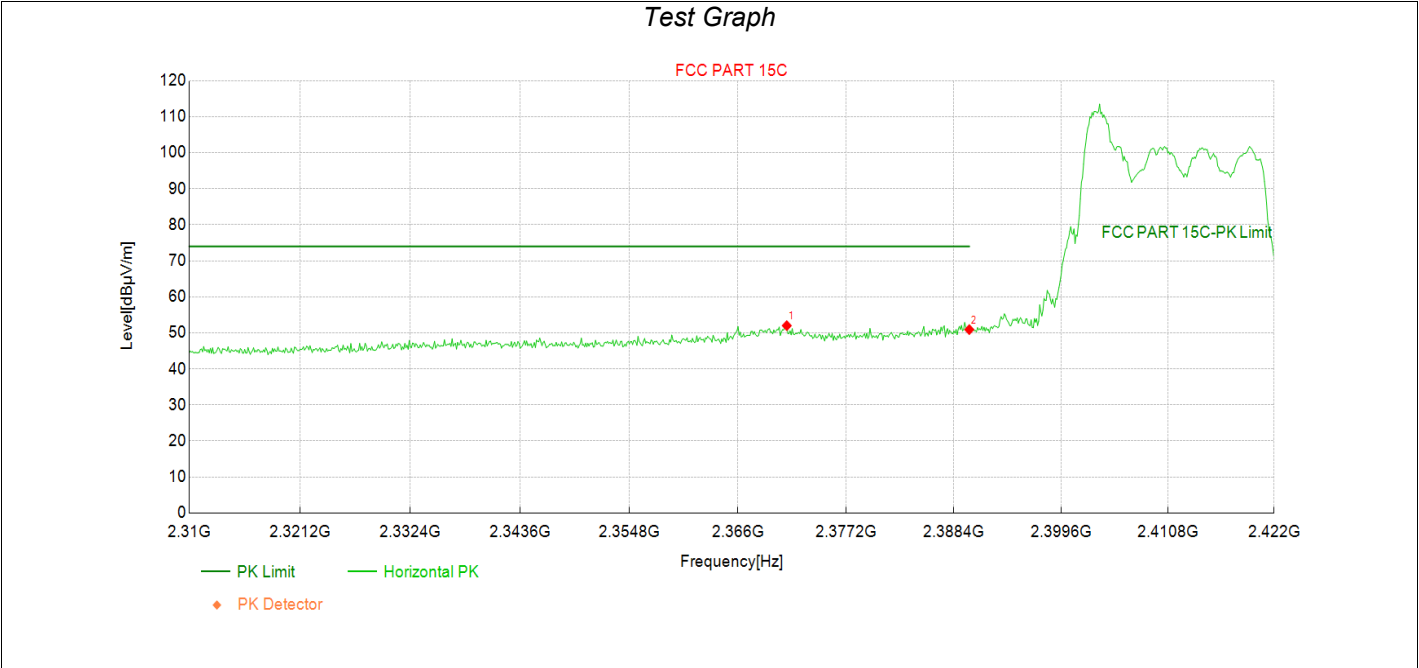
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	58.9	59.43	0.520	74.00	14.57	PK	Vertic	PASS
2	2484.63	66.4	66.96	0.520	74.00	7.04	PK	Vertic	PASS

Transmit at 2452MHz by 802.11ax(40MHz) with Ant1+2



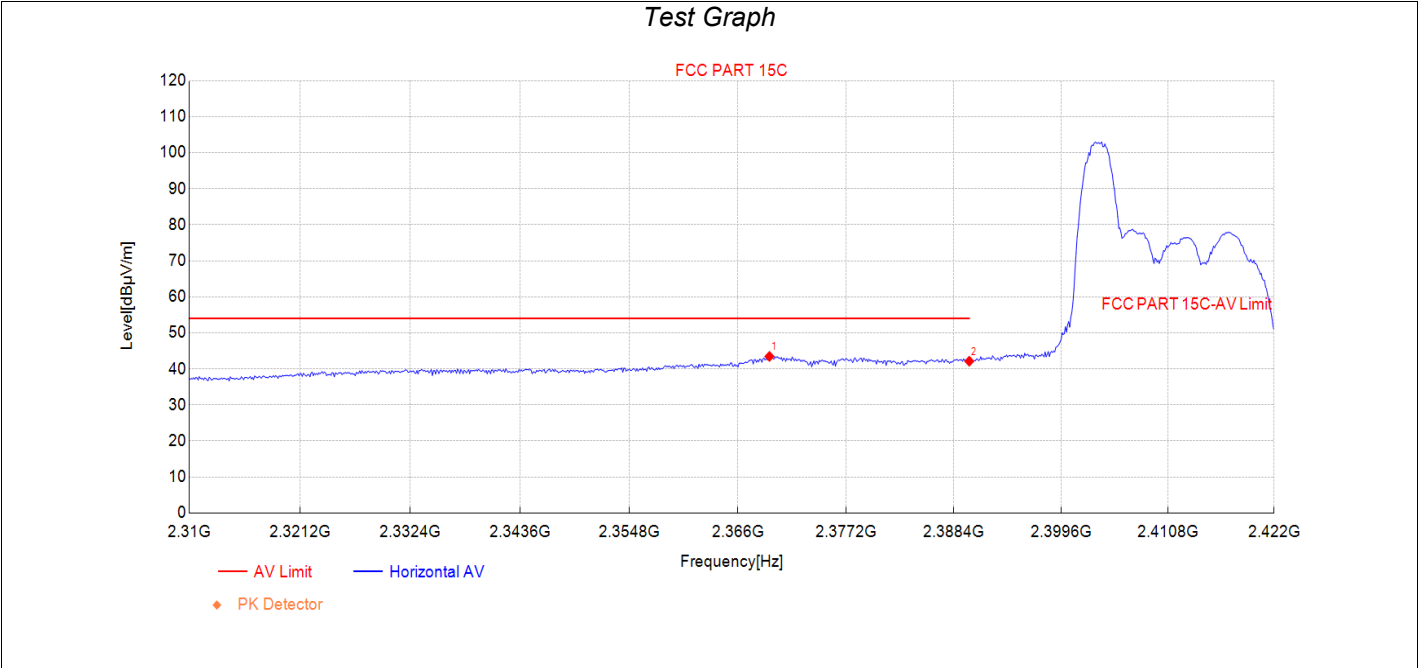
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	44.2	44.69	0.520	54.00	9.31	AV	Vertic	PASS
2	2485.92	44.2	44.72	0.520	54.00	9.28	AV	Vertic	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with 26-0



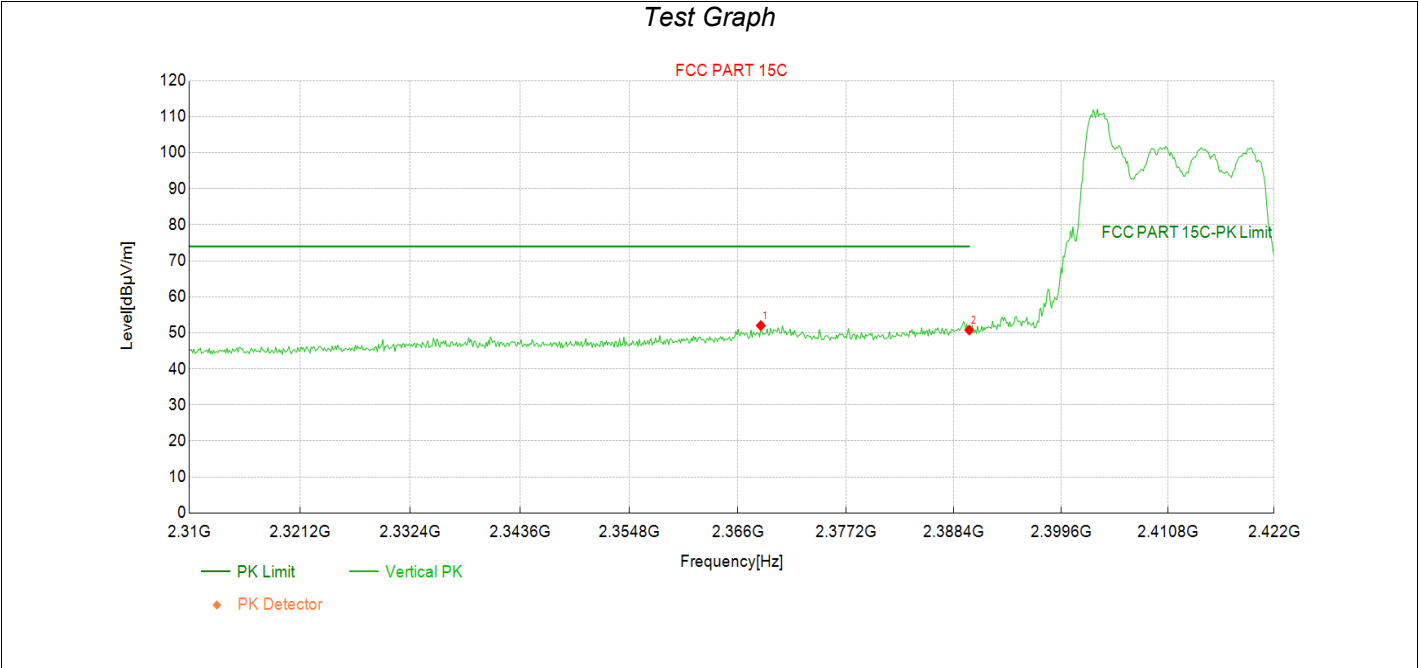
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2371.04	51.6	52.00	0.400	74.00	22.00	PK	Horizo	PASS
2	2390.00	50.5	50.90	0.420	74.00	23.10	PK	Horizo	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with 26-0



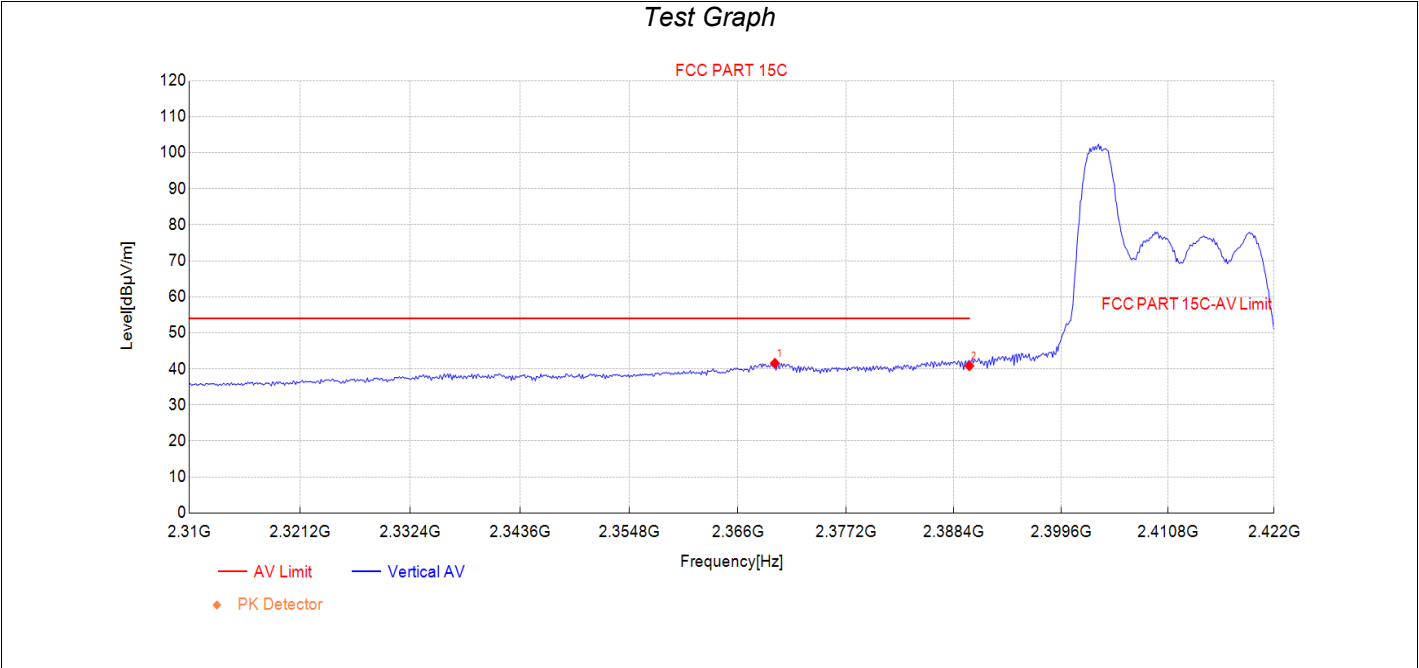
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2369.25	43.1	43.46	0.400	54.00	10.54	AV	Horizo	PASS
2	2390.00	41.7	42.13	0.420	54.00	11.87	AV	Horizo	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with 26-0



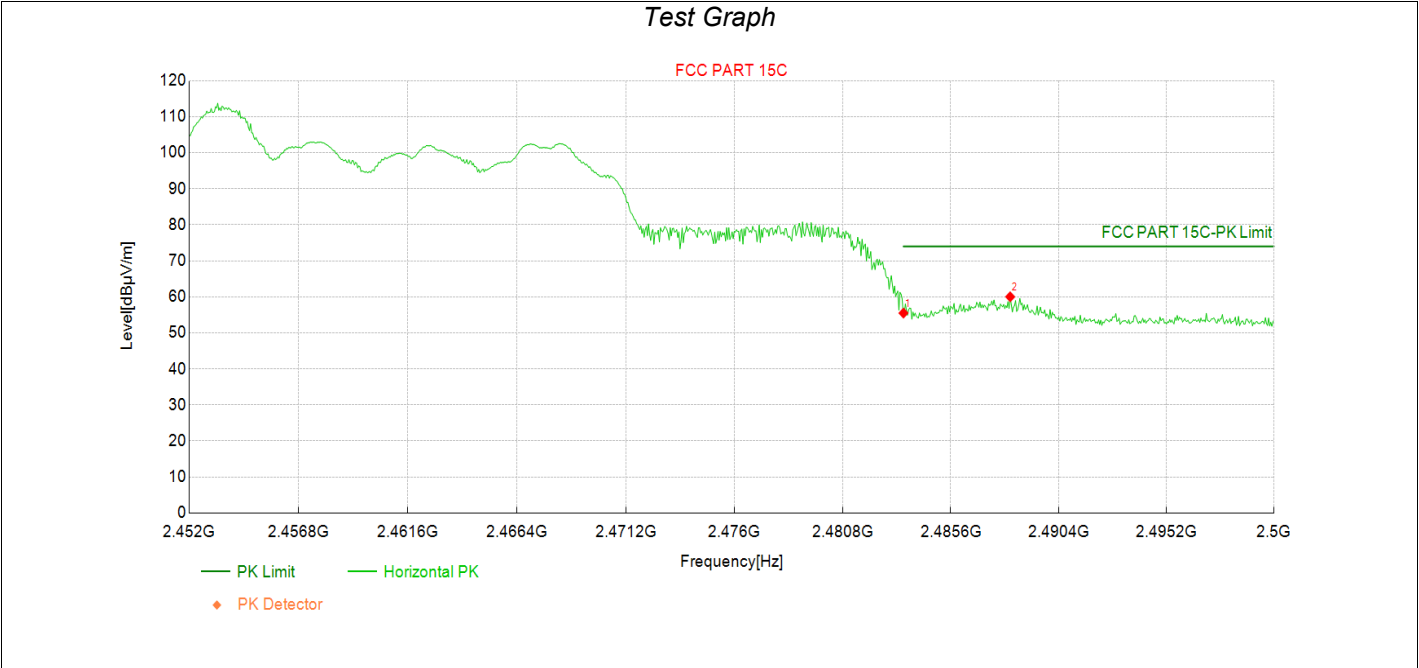
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2368.35	51.6	52.02	0.400	74.00	21.98	PK	Vertic	PASS
2	2390.00	50.4	50.77	0.420	74.00	23.23	PK	Vertic	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with 26-0



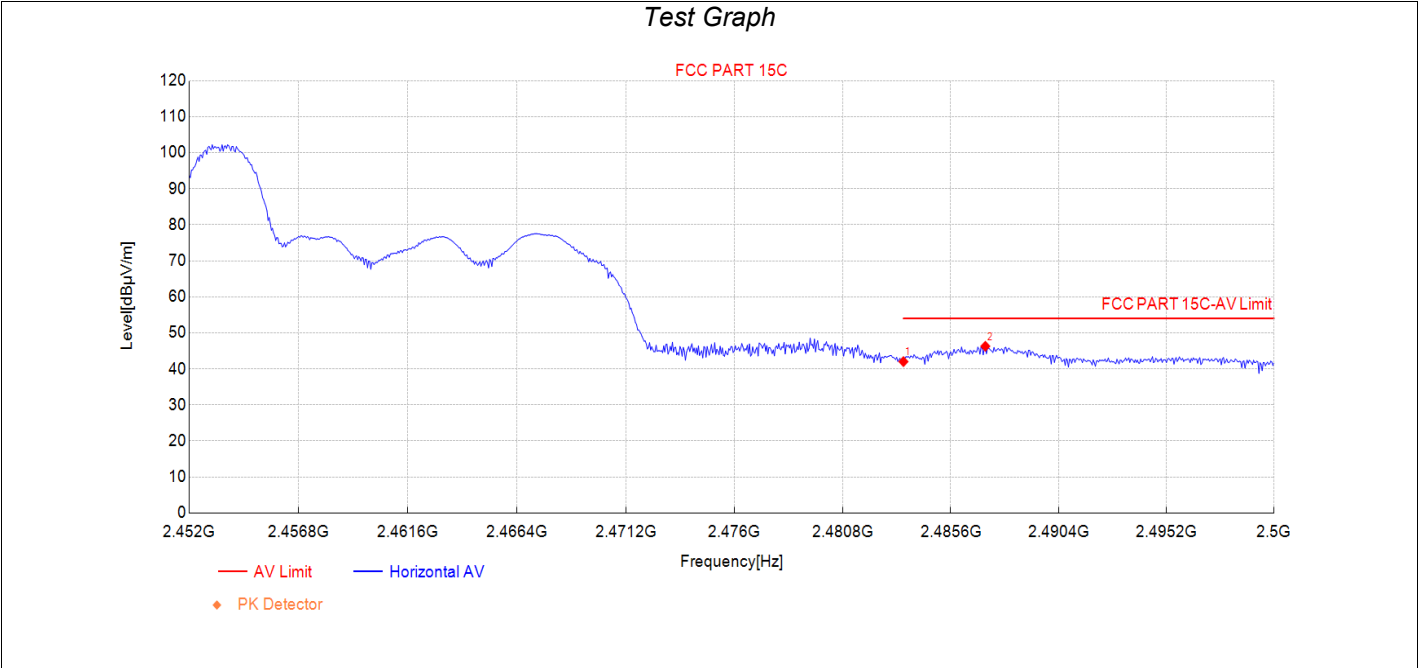
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2369.81	41.2	41.56	0.400	54.00	12.44	AV	Vertic	PASS
2	2390.00	40.4	40.85	0.420	54.00	13.15	AV	Vertic	PASS

Transmit at 2462MHz by 802.11ax(20MHz) with 26-0



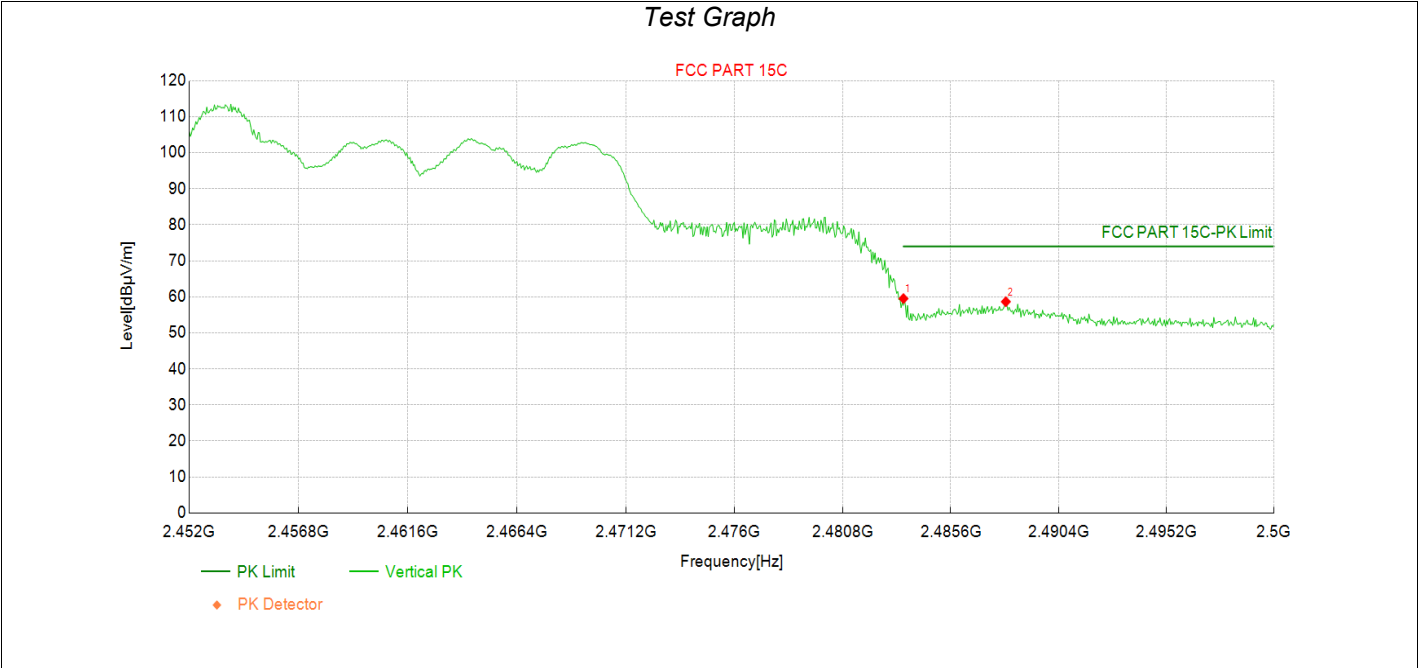
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	55.0	55.49	0.520	74.00	18.51	PK	Horizo	PASS
2	2488.24	59.5	60.01	0.540	74.00	13.99	PK	Horizo	PASS

Transmit at 2462MHz by 802.11ax(20MHz) with 26-0



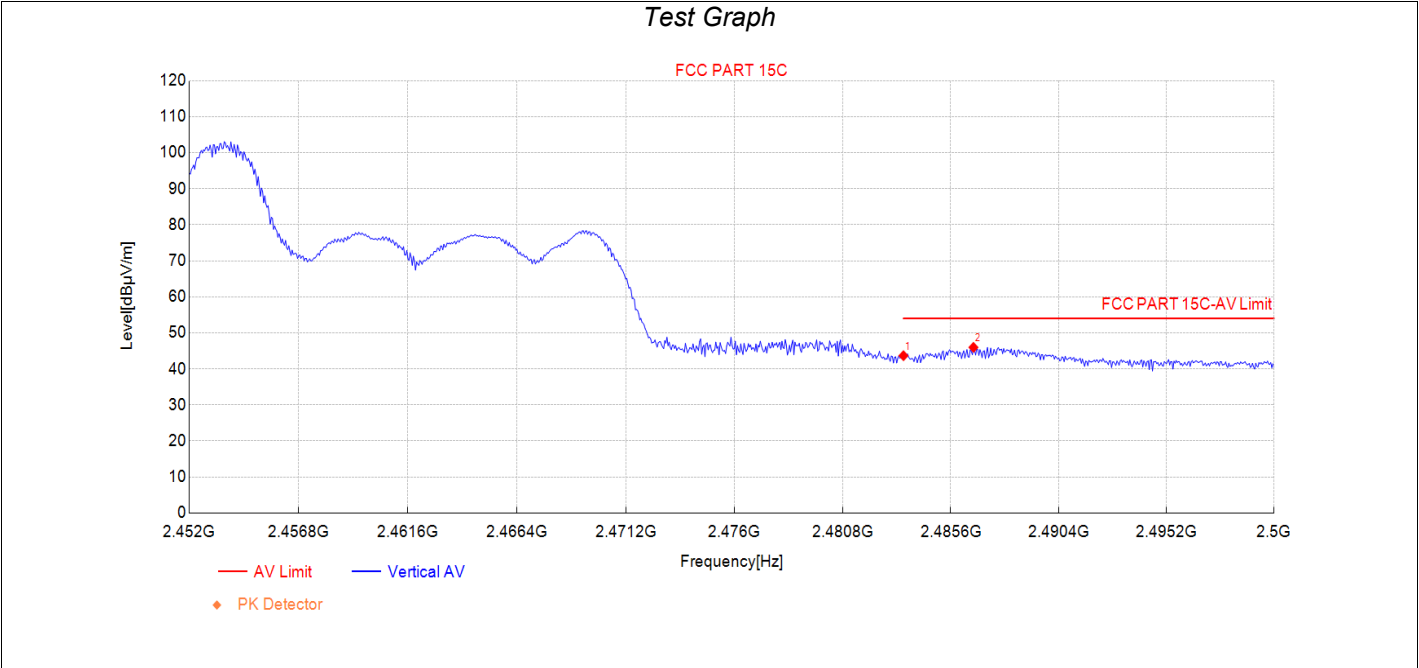
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	2483.50	41.5	42.02	0.520	54.00	11.98	AV	Horizo	PASS
2	2487.14	45.8	46.28	0.520	54.00	7.72	AV	Horizo	PASS

Transmit at 2462MHz by 802.11ax(20MHz) with 26-0



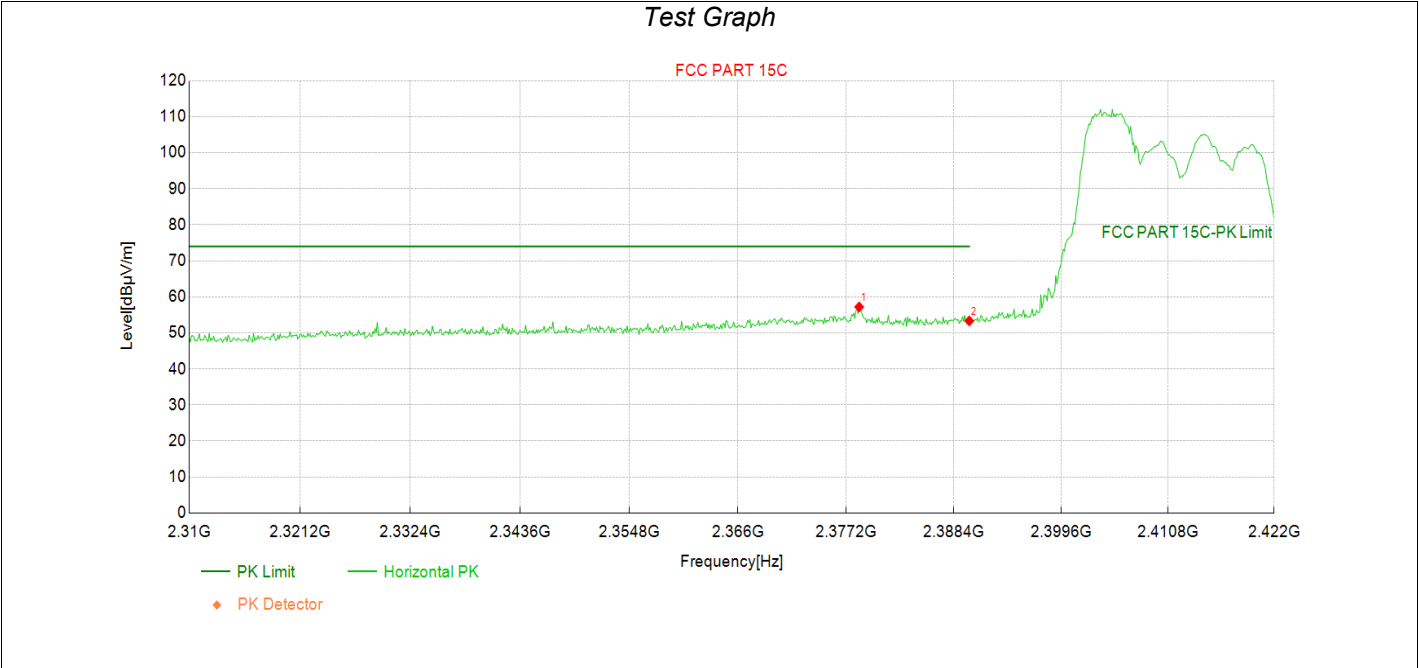
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	59.0	59.51	0.520	74.00	14.49	PK	Vertic	PASS
2	2488.05	58.1	58.64	0.540	74.00	15.36	PK	Vertic	PASS

Transmit at 2462MHz by 802.11ax(20MHz) with 26-0



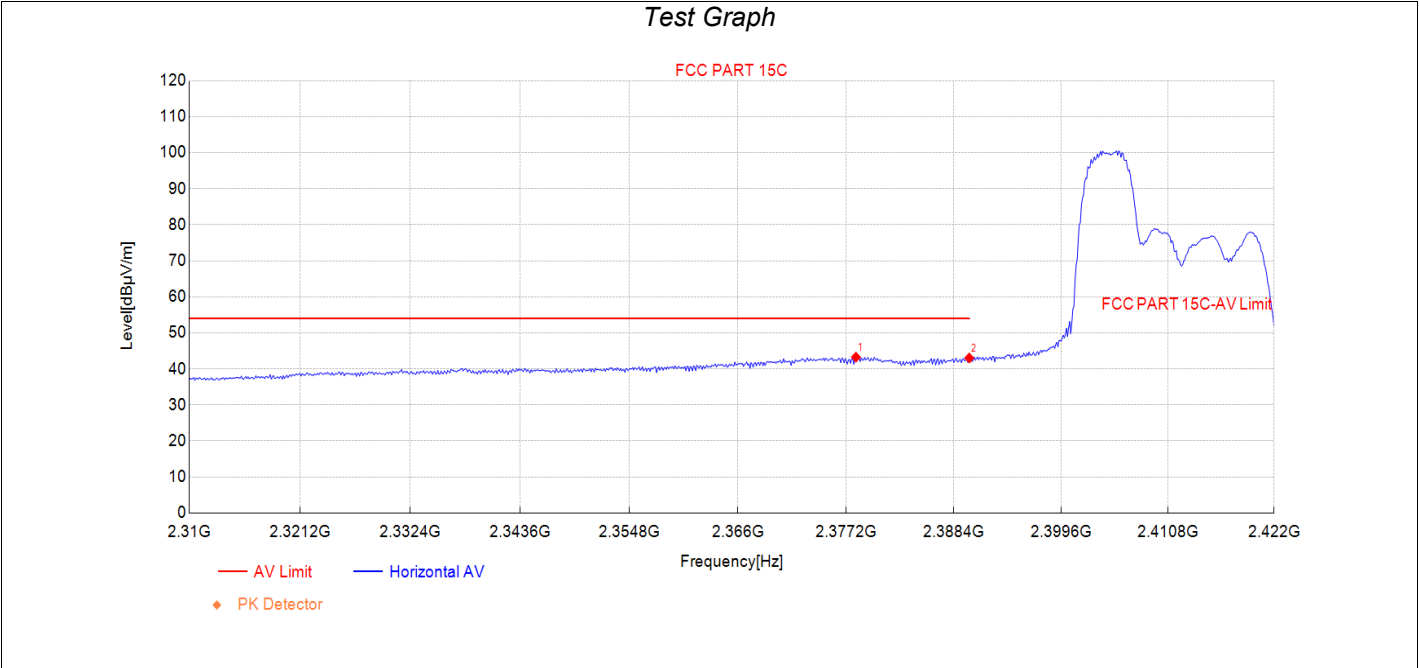
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	43.2	43.67	0.520	54.00	10.33	AV	Vertic	PASS
2	2486.61	45.5	45.97	0.520	54.00	8.03	AV	Vertic	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with 52-37



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2378.54	56.8	57.20	0.400	74.00	16.80	PK	Horizo	PASS
2	2390.00	52.9	53.32	0.420	74.00	20.68	PK	Horizo	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with 52-37



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2378.21	42.9	43.26	0.400	54.00	10.74	AV	Horizo	PASS
2	2390.00	42.6	43.03	0.420	54.00	10.97	AV	Horizo	PASS