



Test report No:
2640209R.701

FCC TEST REPORT

Product Name	DAS Gripper
Model and /or type reference	G401
Trademark	Genrobot.AI
FCC ID	2BX5WG401
Applicant's name / address	GENROBOT. AI CO.,LTD 109-1, 1st Floor, Building C, Zhongguancun Zhizao Street, No. 45 Chengfu Road, Haidian District, Beijing
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	2026-09-21
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)	May. 09, 2026
Date (start test)	May. 29, 2026
Date (finish test)	Aug. 23, 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
2640209R.701	V1.0	Initial issue of report.	2026-09-21

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
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	2025.06.20	2026.06.19	A.17.55	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	2025.06.29	2026.06.28	N/A	N/A
RF Control Unit	Tonscend	JS0806-2	806JS2X02 1710251017	2026.06.23	2027.06.22	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
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
MAX Signal Analyzer	Keysight	N9020B	MY63490118	2025.08.08	2026.08.07	A35.06	N/A
MAX Signal Analyzer	Keysight	N9020B	MY63490118	2026.08.02	2027.08.01	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

AC Power Line Conducted Emission / SR104

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Firmware Version	Software Version
V-network	R&S	ENV216	101516	2026.05.10	2027.05.09	N/A	N/A
EMI test receiver	R&S	ESR3	103140	2026.05.08	2027.05.07	N/A	N/A
V-LISN	R&S	ENV4200	100748	2026.05.10	2027.05.09	N/A	N/A
cable	R&S	N/A	213	2026.05.10	2027.05.09	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

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:	DAS Gripper	
Model Name:	G401	
Trademark.:	Genrobot.AI	
FCC ID:	2BX5WG401	
Power Supply:	3.6V Battery	
Hardware Version:	V4.0	
Software Version:	0.0.55	
Manufacturer:	GENROBOT. AI CO.,LTD	
Manufacturer Address:	109-1, 1st Floor, Building C, Zhongguancun Zhizao Street, No. 45 Chengfu Road, Haidian District, Beijing	
Test Matrix/ IMEI:	RF Conducted	#1
	RSE	#2
Wireless specification:	802.11b/g/n	
Operating frequency range(s):	2412~2462MHz	
Type of Modulation :	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)	
Smart System:	☒	SISO
	☐	MIMO-CDD
	☐	MIMO-Beamforming
Antenna Type:	FPC Antenna	
Antenna Gain:	5.0dBi	

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 (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	-	-

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		
MobaXterm	N/A		

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)

2.3 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting
802.11b	01	2412	default
	06	2437	default
	11	2462	default
802.11g	01	2412	default
	06	2437	default
	11	2462	default
802.11n20	01	2412	default
	06	2437	default
	11	2462	default

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	See Note3
Maximum conducted output power	15.247 (b)(3)	PASS	Test data please refer to Appendix A
Maximum power spectral density	FCC 15.247(e)	PASS	See Note3
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix B
Conducted Spurious Emission	FCC 15.247(d), FCC 15.209	PASS	See Note3
Duty cycle	ANSI C63.10:2020	PASS	See Note3
Emissions in Restricted Bands	FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix C
AC Power Line Conducted Emission	FCC 15.207	PASS	Test data please refer to Appendix D
Antenna Requirement	FCC 15.203	PASS	---

Note1: This report is a limited report on the installation of a test module in the Host, and the customer declares that the RF parameters of the module installed in the host computer are exactly the same as those of the certified module. We verified the RF output power and radiated emissions of the equipment. For other test data, please refer to FCC ID: ZQ6-AP6256.

Note2: Only the AC Power Line Conducted Emission and Conducted Output Power and Band-Edge and Radiated Spurious were fully tested.

Note3: These items please refer to the FCC ID: ZQ6-AP6256 (has been certified), and the test report issued by Sporton International Inc. Hsinchu Laboratory on 5/13/2024.

Note4: 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

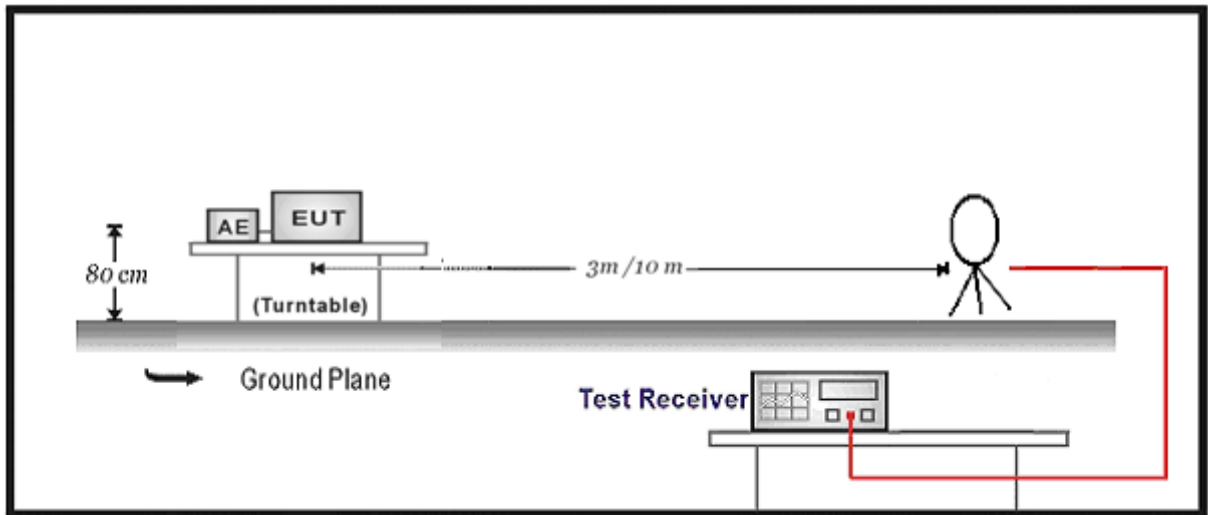
4.1 Emissions in restricted frequency bands	VERDICT: PASS
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4.1.1 Limit			
Standard		FCC Part 15 Subpart C Paragraph 15.205; 15.209.	
Restricted Bands of operation for FCC			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	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			

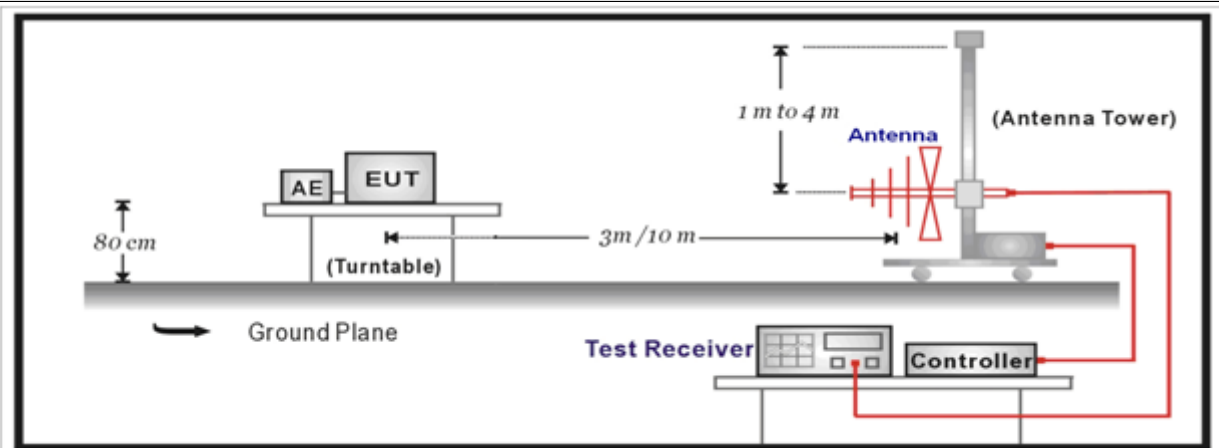
measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can 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

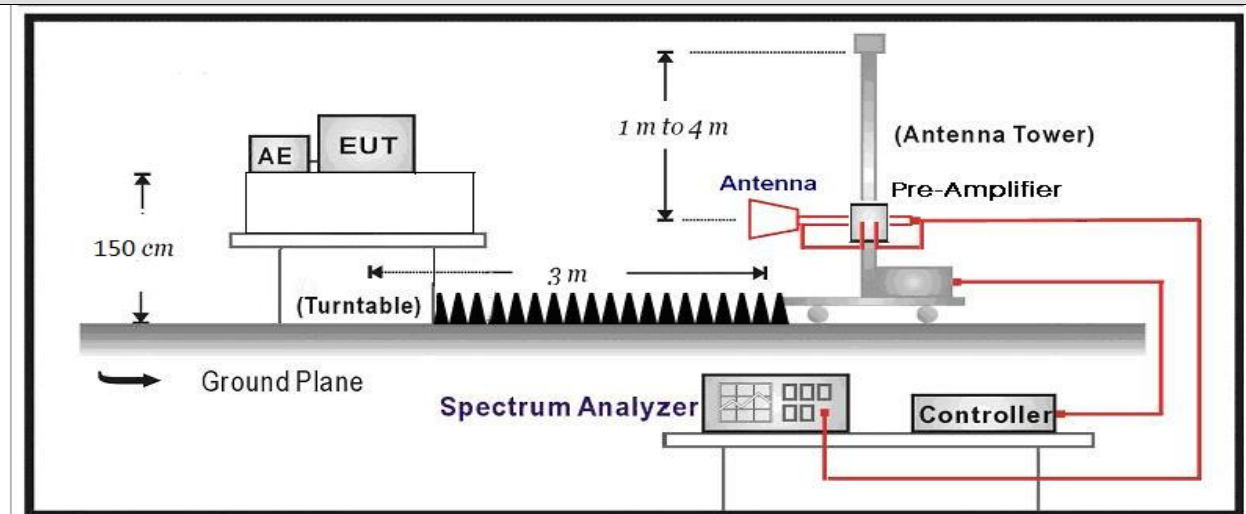
Below 30MHz Test Setup:



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 Radiated Emission Band Edge

VERDICT: PASS

4.2.1 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 2483.5-2500	PK	74	1	3
	AV	54	1	3

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

4.2.2 Test Setup

Above 1GHz Test Setup:

The diagram illustrates the test setup for radiated emissions above 1 GHz. It shows a Ground Plane with a Turntable mounted on it. The Turntable is at a height of 150 cm. On the Turntable, there is an AE (Antenna Enclosure) and an EUT (Equipment Under Test). The distance between the Turntable and the Antenna is 3 m. The Antenna is mounted on an Antenna Tower at a height of 1 m to 4 m. The Antenna is connected to a Pre-Amplifier, which is connected to a Spectrum Analyzer and a Controller. The Spectrum Analyzer and Controller are connected to the Antenna via red lines.

4.2.3 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

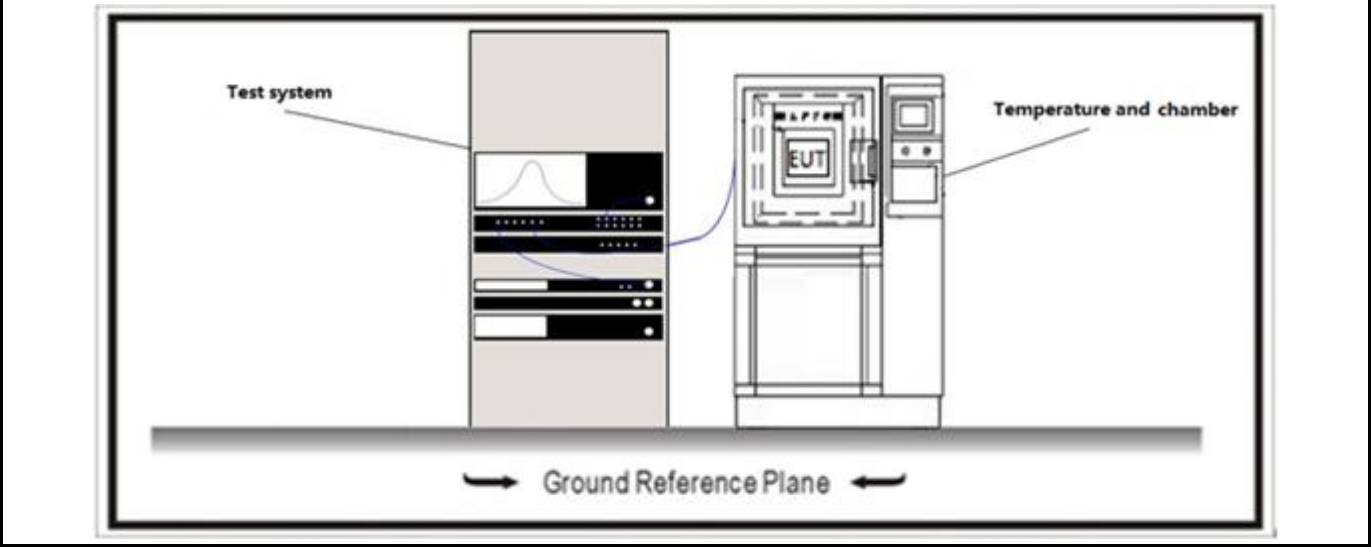
4.3 Fundamental emission output power

VERDICT: PASS

4.3.1 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 .			

4.3.2 Test Setup

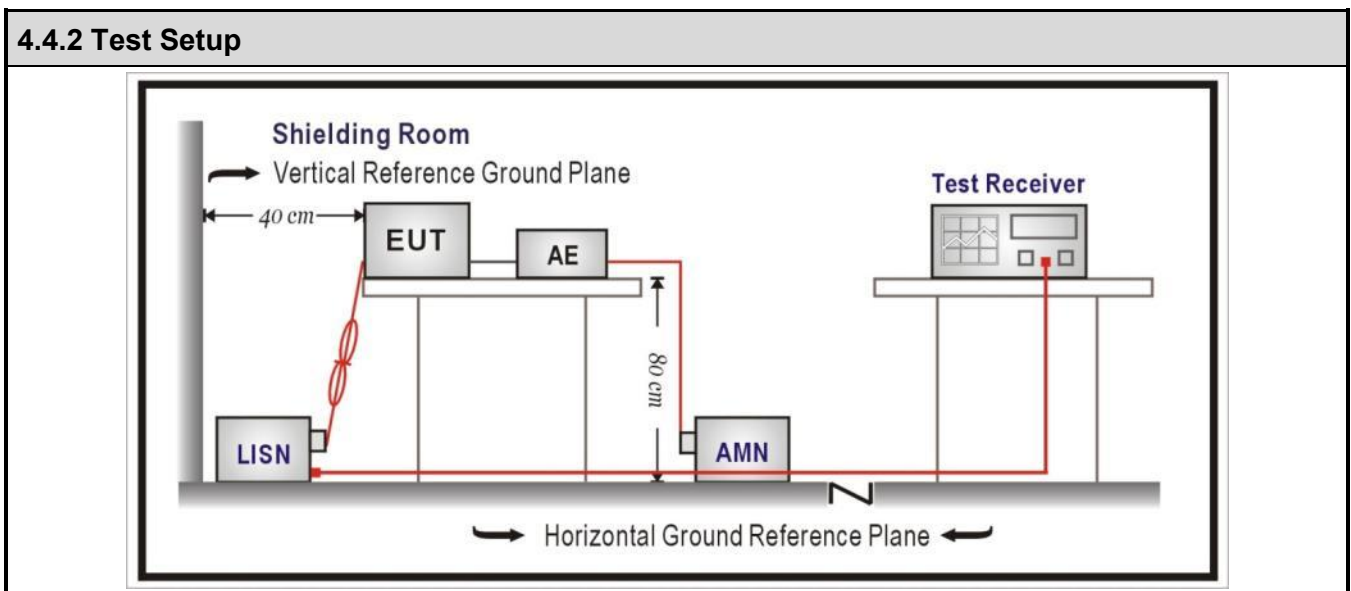


4.3.3 Test Procedure				
	References Rule		Chapter	Description
☒	ANSI C63.10		11.9	Fundamental emission output power
	☒	ANSI C63.10		Maximum peak conducted output power
	☐	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth
		ANSI C63.10	11.9.1.2	Integrated band power method
		☒ ANSI C63.10	11.9.1.3	PKPM1 Peak 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

4.4 AC Power Line Conducted Emission	VERDICT: N/A
---	---------------------

4.4.1 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.



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

4.5 Antenna Requirement**VERDICT: PASS****4.5.1 Limit:**

Standard	FCC Part 15 Subpart C Paragraph 15.203
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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.

4.5.2 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.

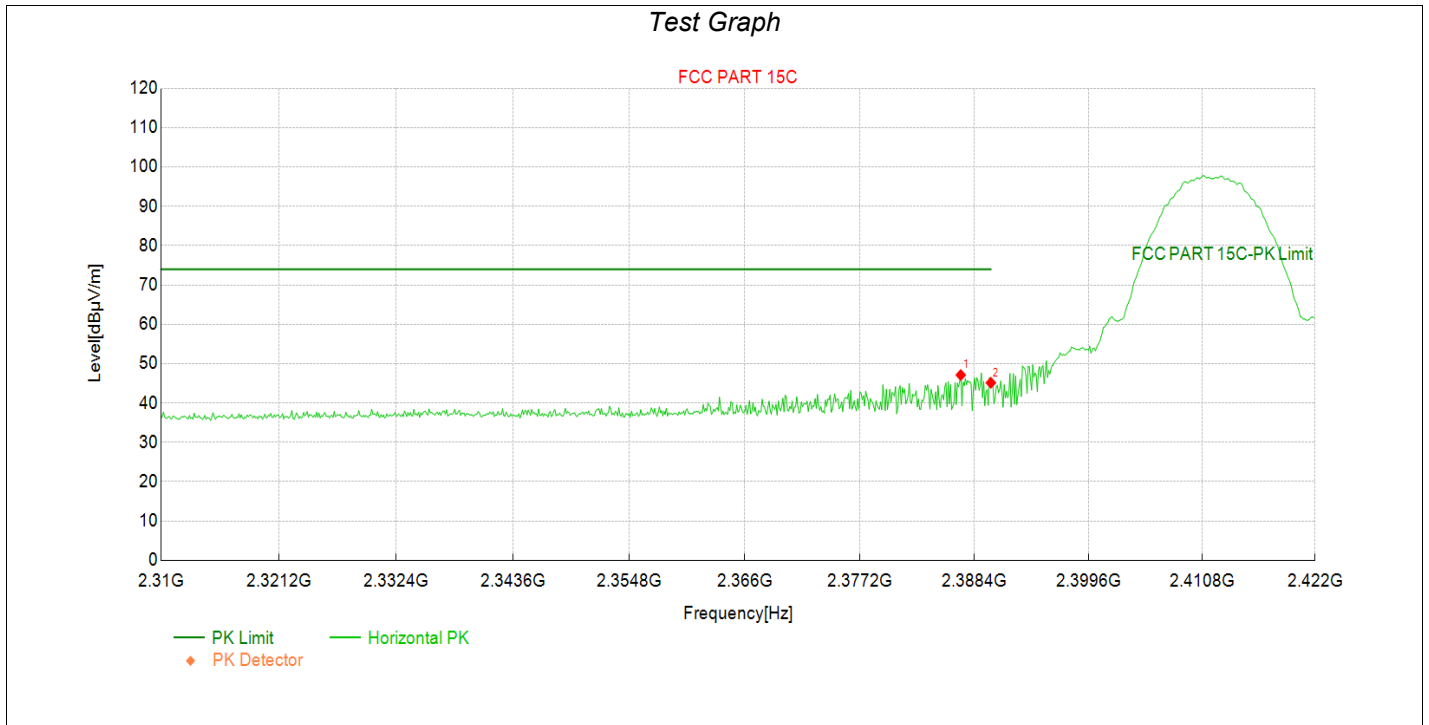
6 TEST RESULT

Appendix A: Maximum conducted output power

Mode	Channel	Test Frequency (MHz)	Conducted Power(dBm)	Limit(dBm)	Result
802.11b	1	2412	11.49	≤ 30	Pass
	6	2437	11.22	≤ 30	Pass
	11	2462	11.30	≤ 30	Pass
802.11g	1	2412	12.20	≤ 30	Pass
	6	2437	11.87	≤ 30	Pass
	11	2462	12.04	≤ 30	Pass
802.11n20	1	2412	12.71	≤ 30	Pass
	6	2437	12.43	≤ 30	Pass
	11	2462	12.39	≤ 30	Pass

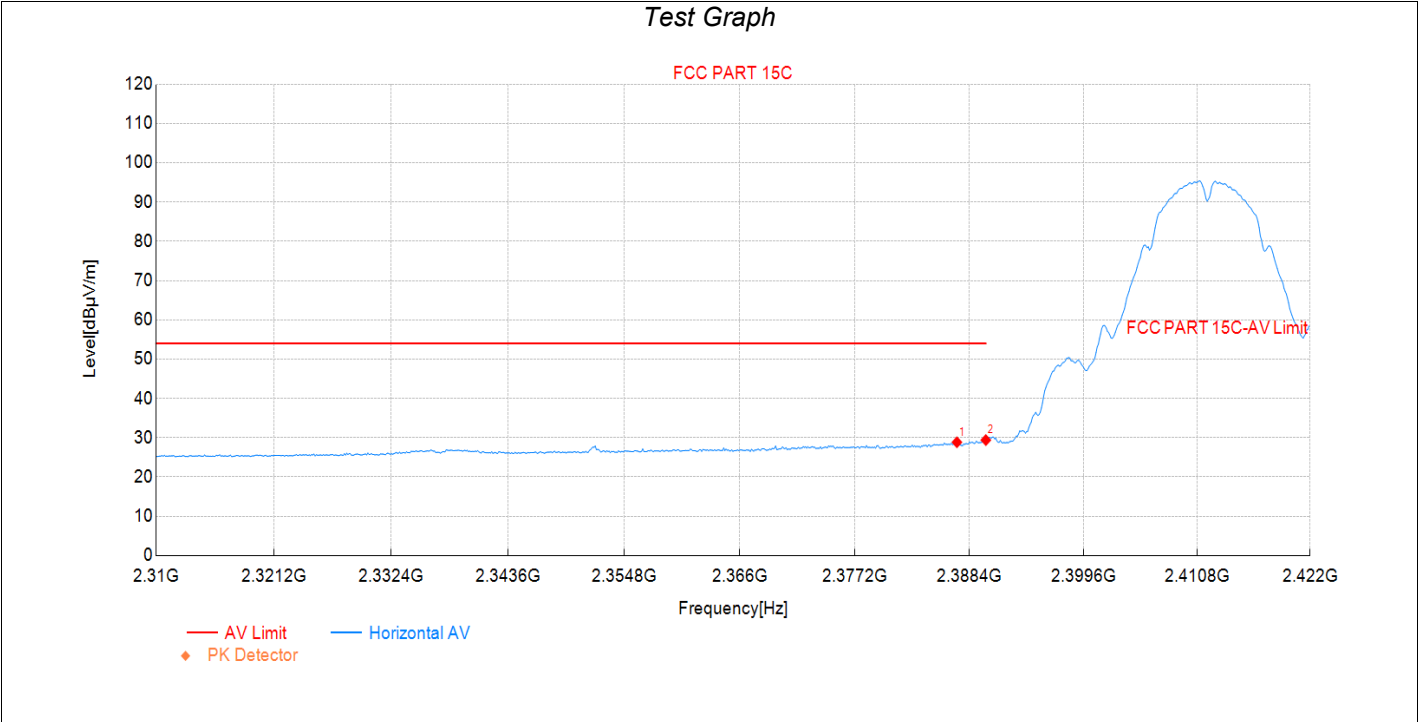
Appendix B: Band edge measurements

Transmit at 2412MHz by 802.11b



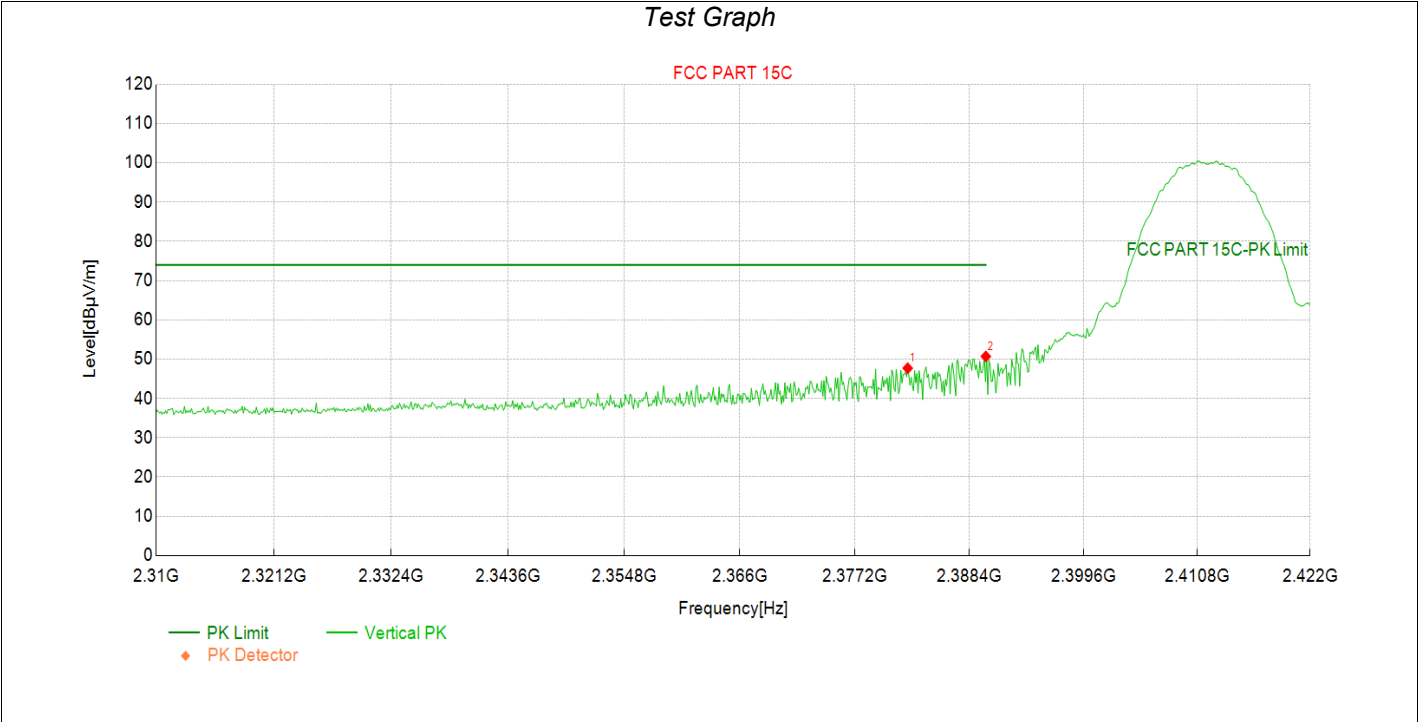
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.06	47.23	47.11	-0.120	74.00	26.89	PK	Horizo	PASS
2	2390.00	45.25	45.13	-0.120	74.00	28.87	PK	Horizo	PASS

Transmit at 2412MHz by 802.11b



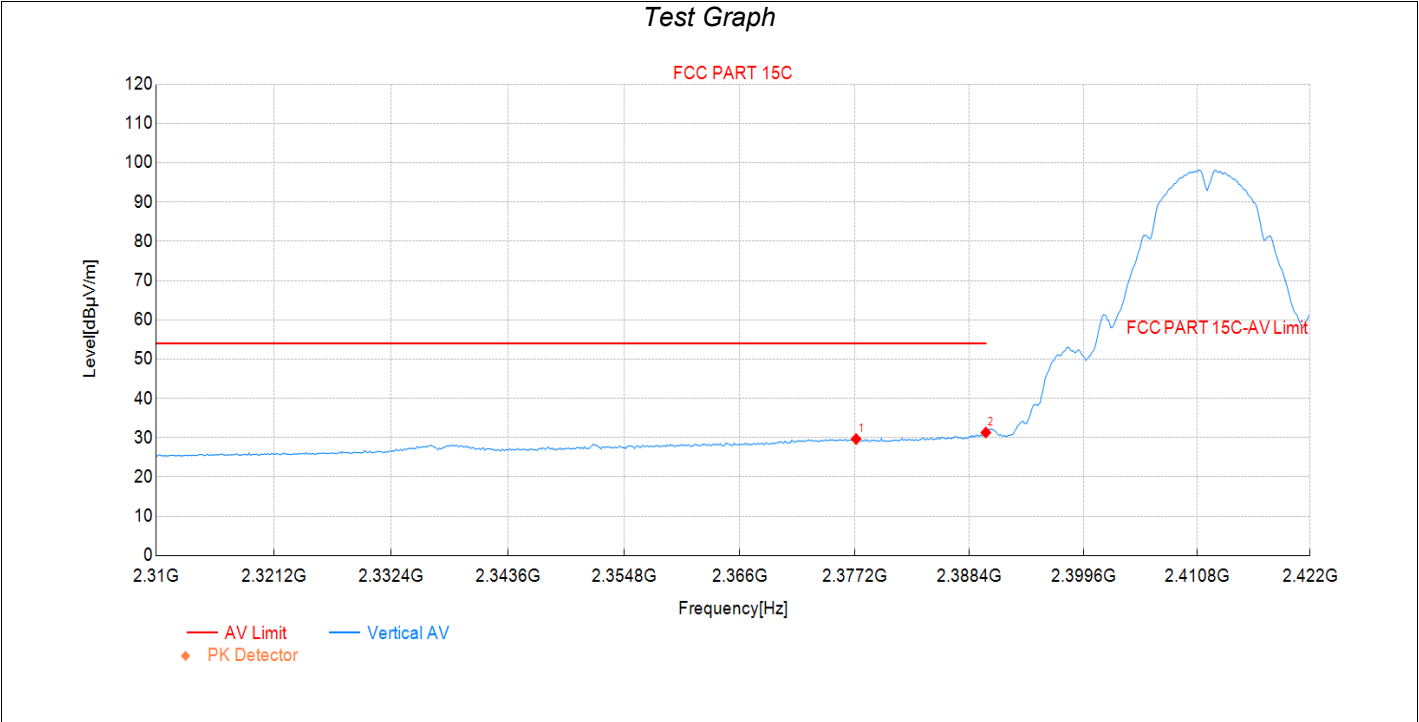
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.17	28.96	28.84	-0.120	54.00	25.16	AV	Horizo	PASS
2	2390.00	29.52	29.40	-0.120	54.00	24.60	AV	Horizo	PASS

Transmit at 2412MHz by 802.11b



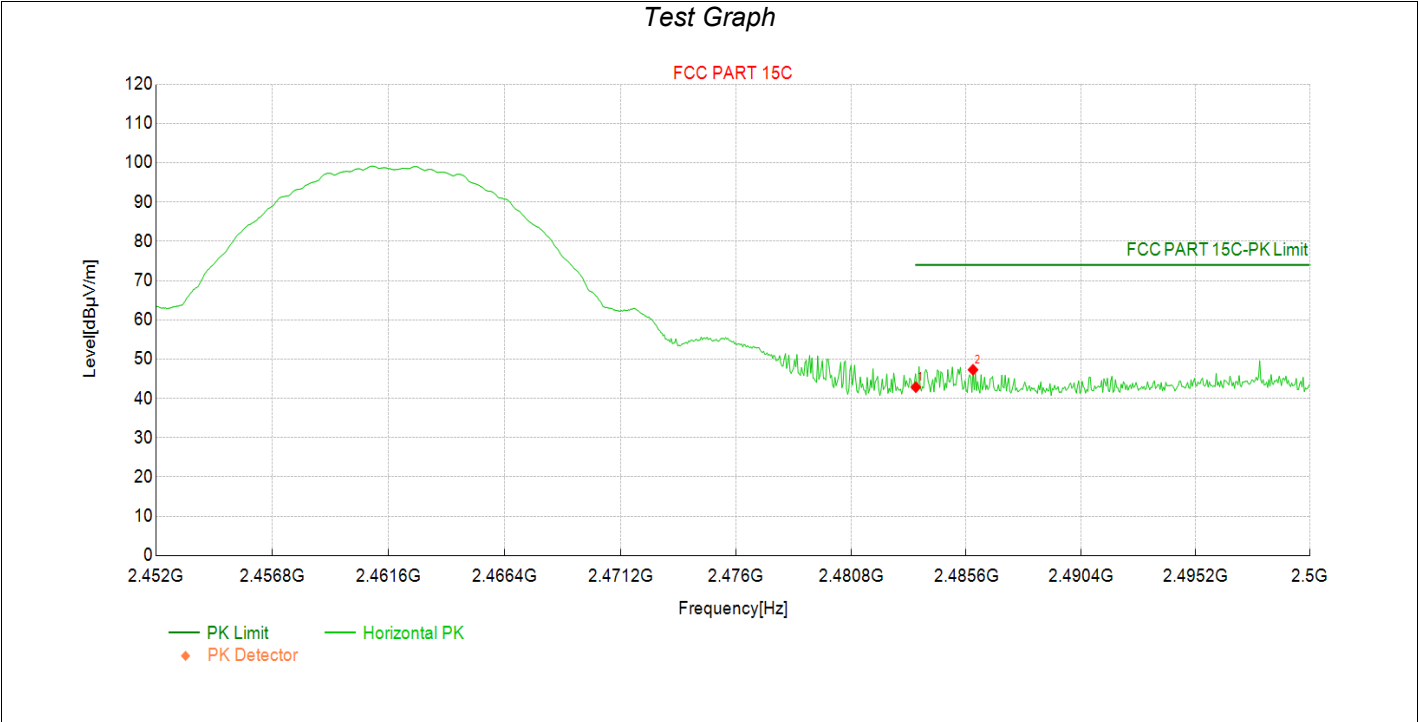
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2382.35	47.83	47.70	-0.130	74.00	26.30	PK	Vertic	PASS
2	2390.00	50.83	50.71	-0.120	74.00	23.29	PK	Vertic	PASS

Transmit at 2412MHz by 802.11b



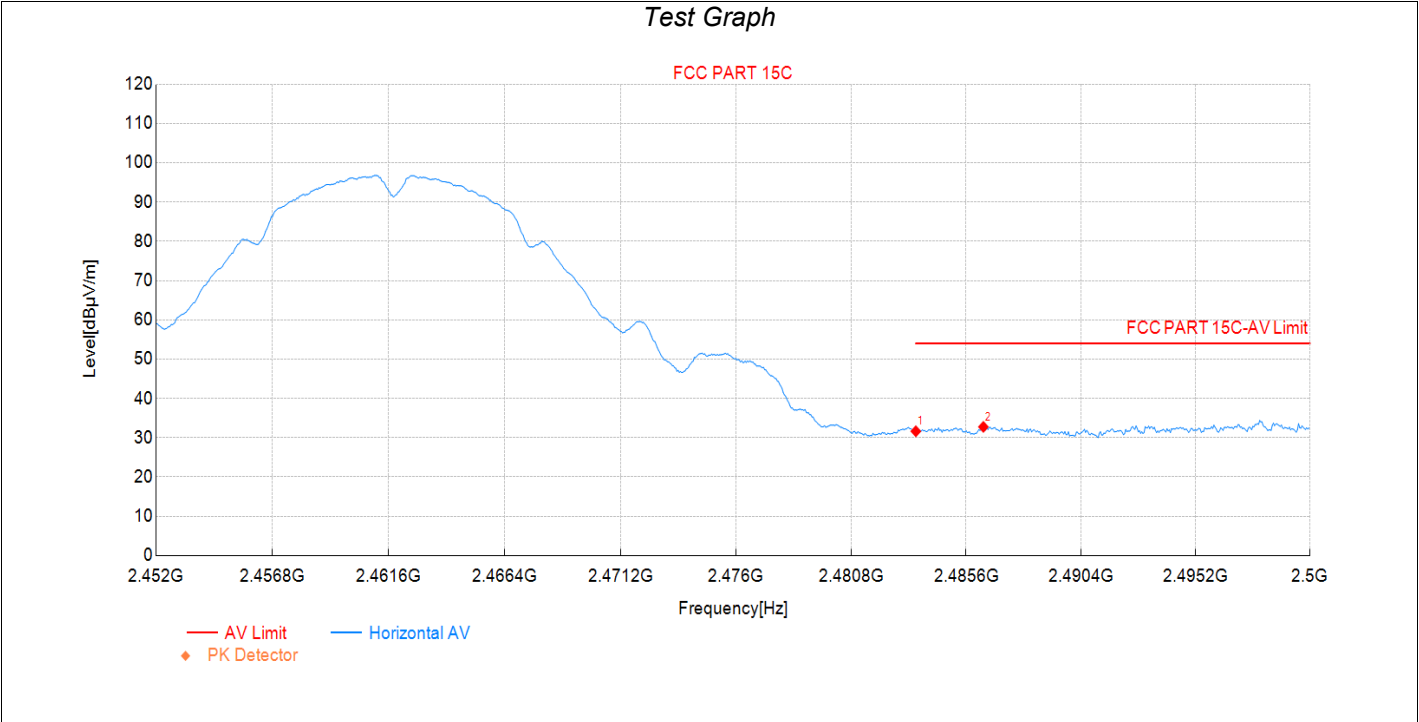
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2377.31	29.80	29.66	-0.140	54.00	24.34	AV	Vertic	PASS
2	2390.00	31.44	31.32	-0.120	54.00	22.68	AV	Vertic	PASS

Transmit at 2462MHz by 802.11b



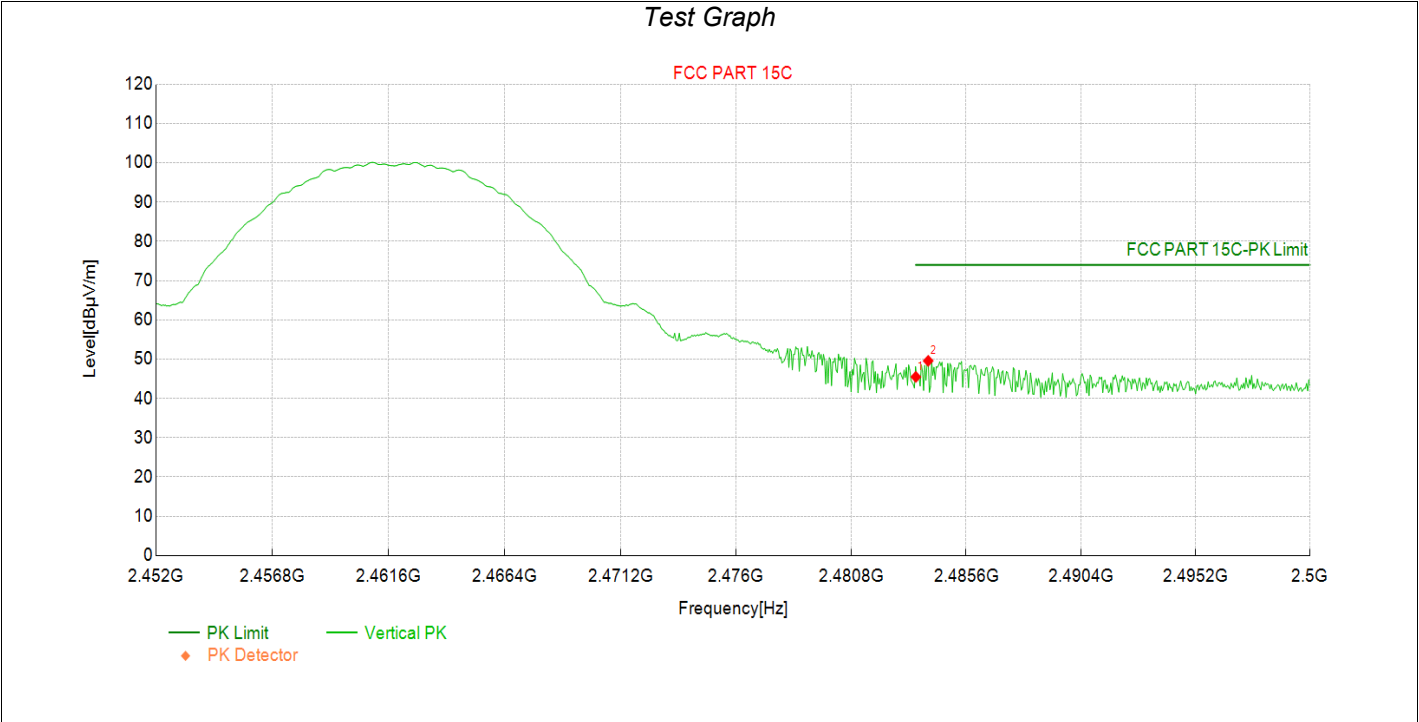
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	42.73	42.88	0.150	74.00	31.12	PK	Horizo	PASS
2	2485.89	47.14	47.30	0.160	74.00	26.70	PK	Horizo	PASS

Transmit at 2462MHz by 802.11b



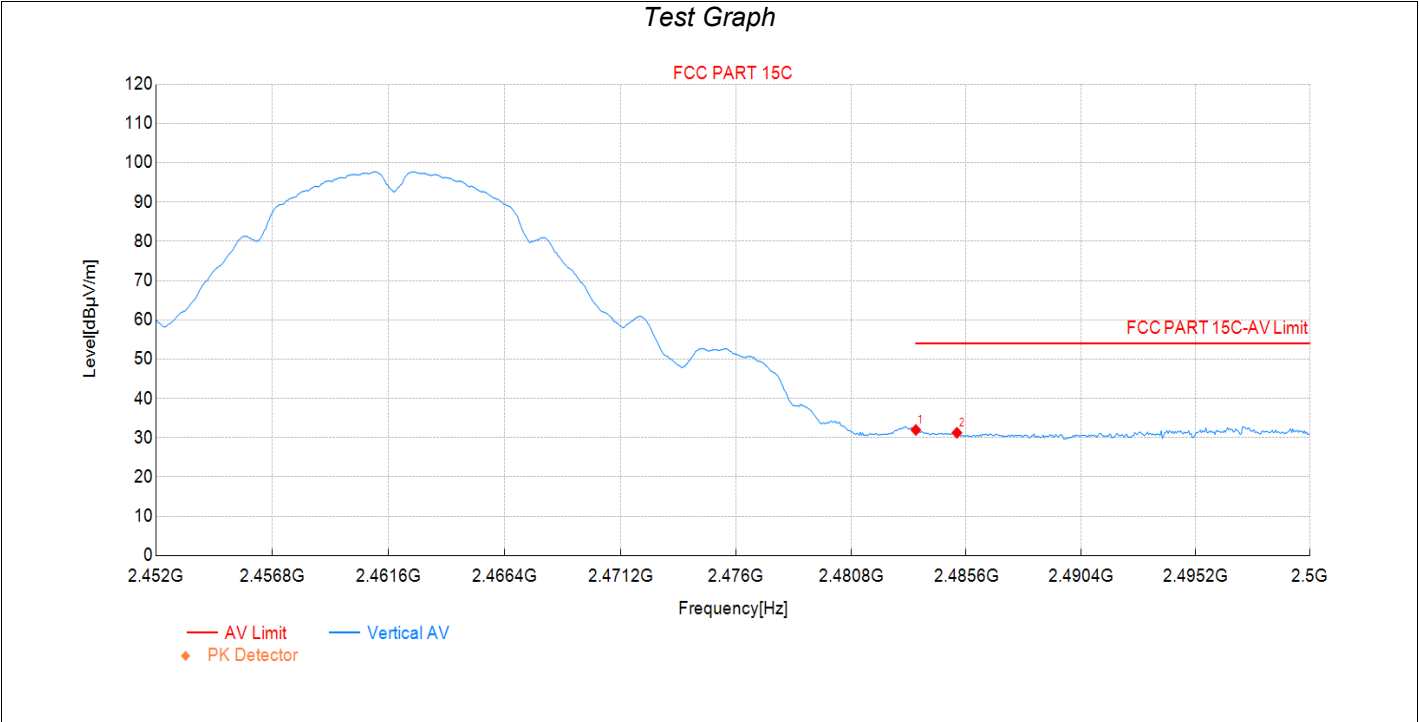
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	31.50	31.65	0.150	54.00	22.35	AV	Horizo	PASS
2	2486.32	32.61	32.77	0.160	54.00	21.23	AV	Horizo	PASS

Transmit at 2462MHz by 802.11b



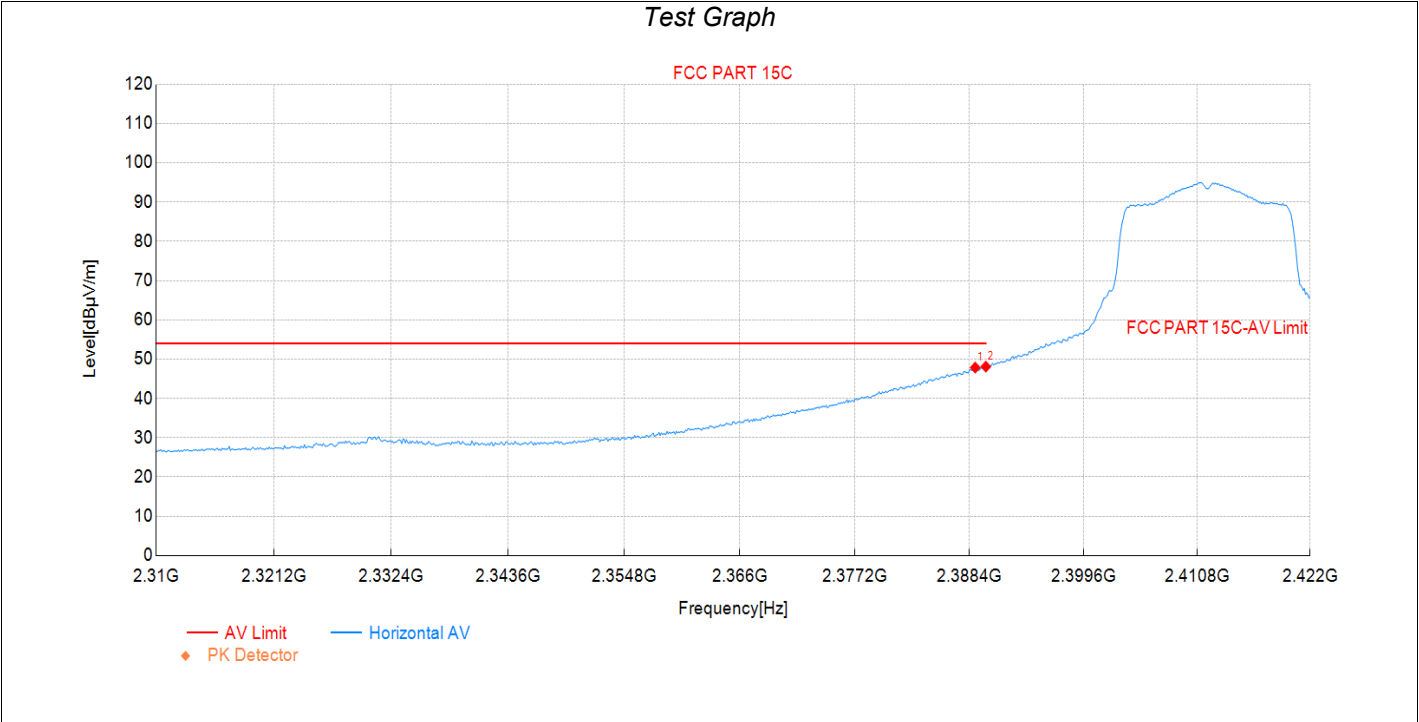
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	45.34	45.49	0.150	74.00	28.51	PK	Vertic	PASS
2	2484.02	49.42	49.57	0.150	74.00	24.43	PK	Vertic	PASS

Transmit at 2462MHz by 802.11b



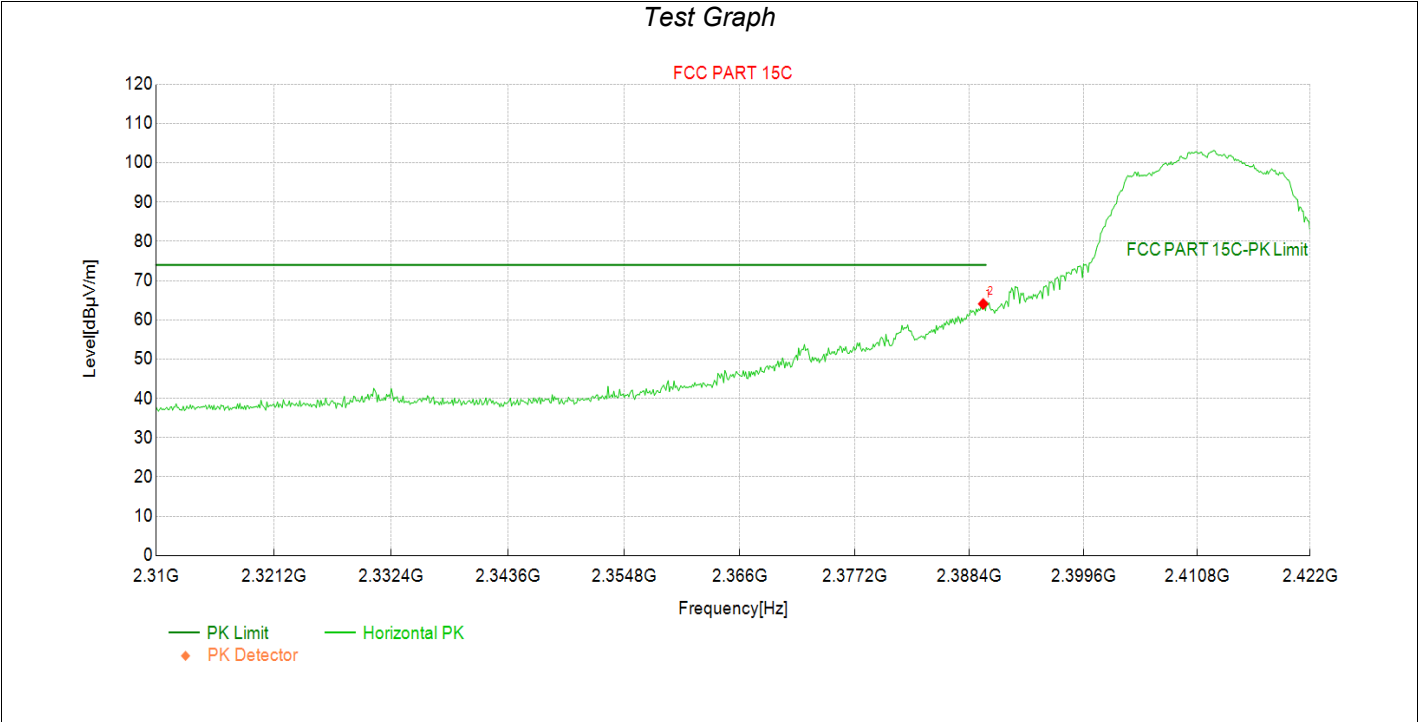
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	31.83	31.98	0.150	54.00	22.02	AV	Vertic	PASS
2	2485.22	31.10	31.26	0.160	54.00	22.74	AV	Vertic	PASS

Transmit at 2412MHz by 802.11g



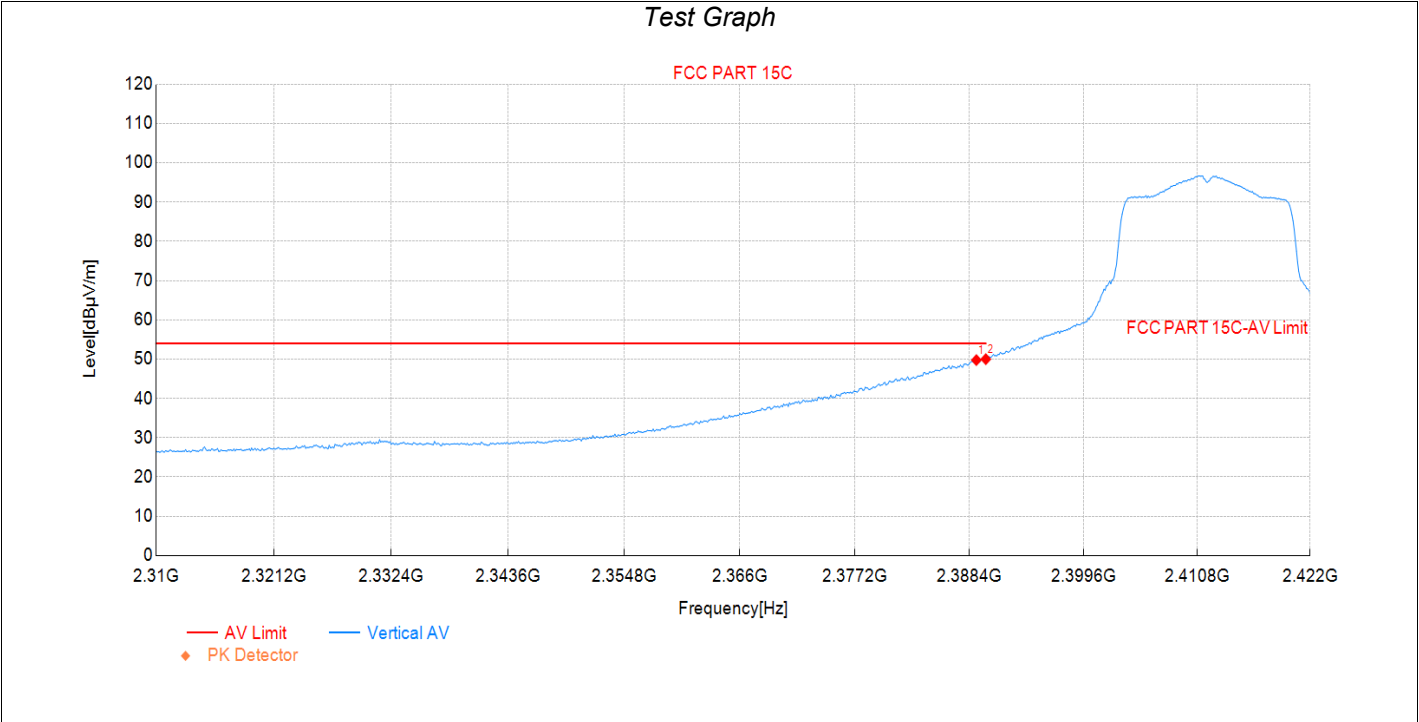
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.96	47.98	47.86	-0.120	54.00	6.14	AV	Horizo	PASS
2	2390.00	48.22	48.10	-0.120	54.00	5.90	AV	Horizo	PASS

Transmit at 2412MHz by 802.11g



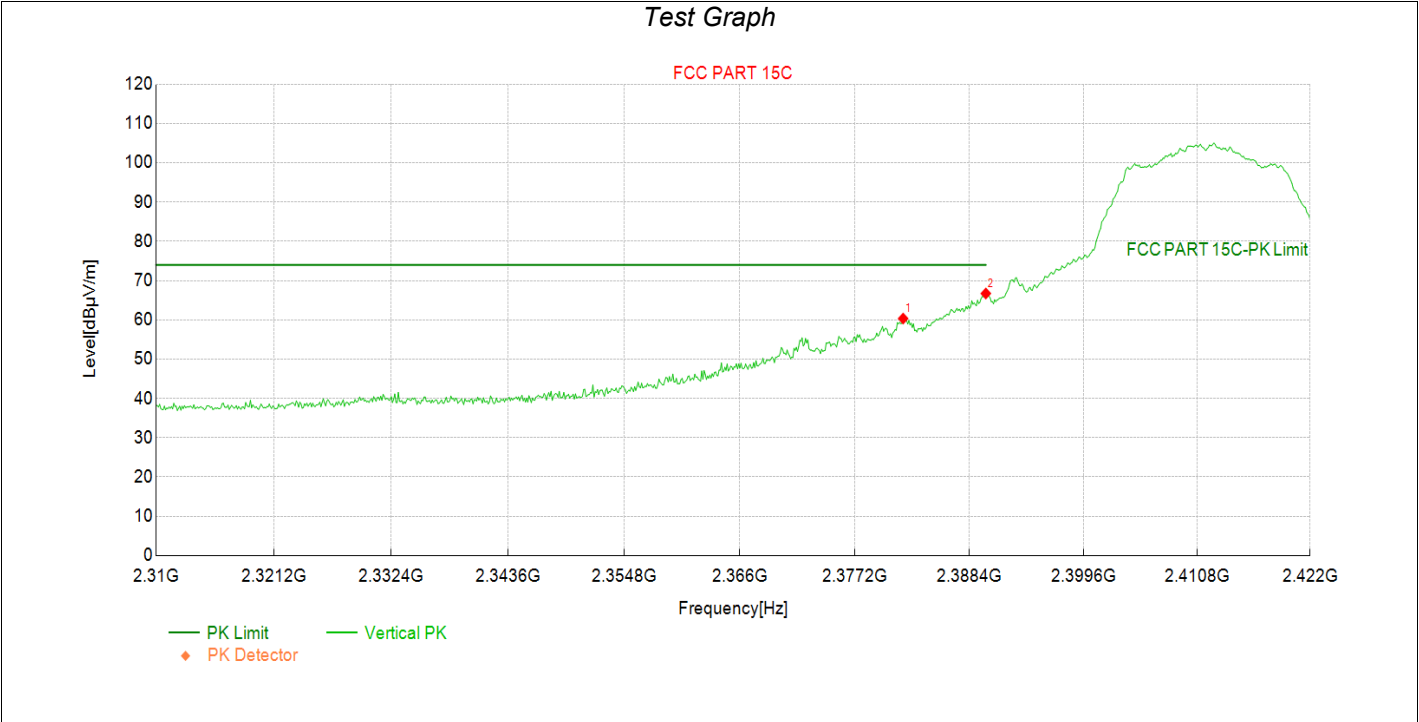
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.74	64.19	64.07	-0.120	74.00	9.93	PK	Horizo	PASS
2	2390.00	64.76	64.64	-0.120	74.00	9.36	PK	Horizo	PASS

Transmit at 2412MHz by 802.11g



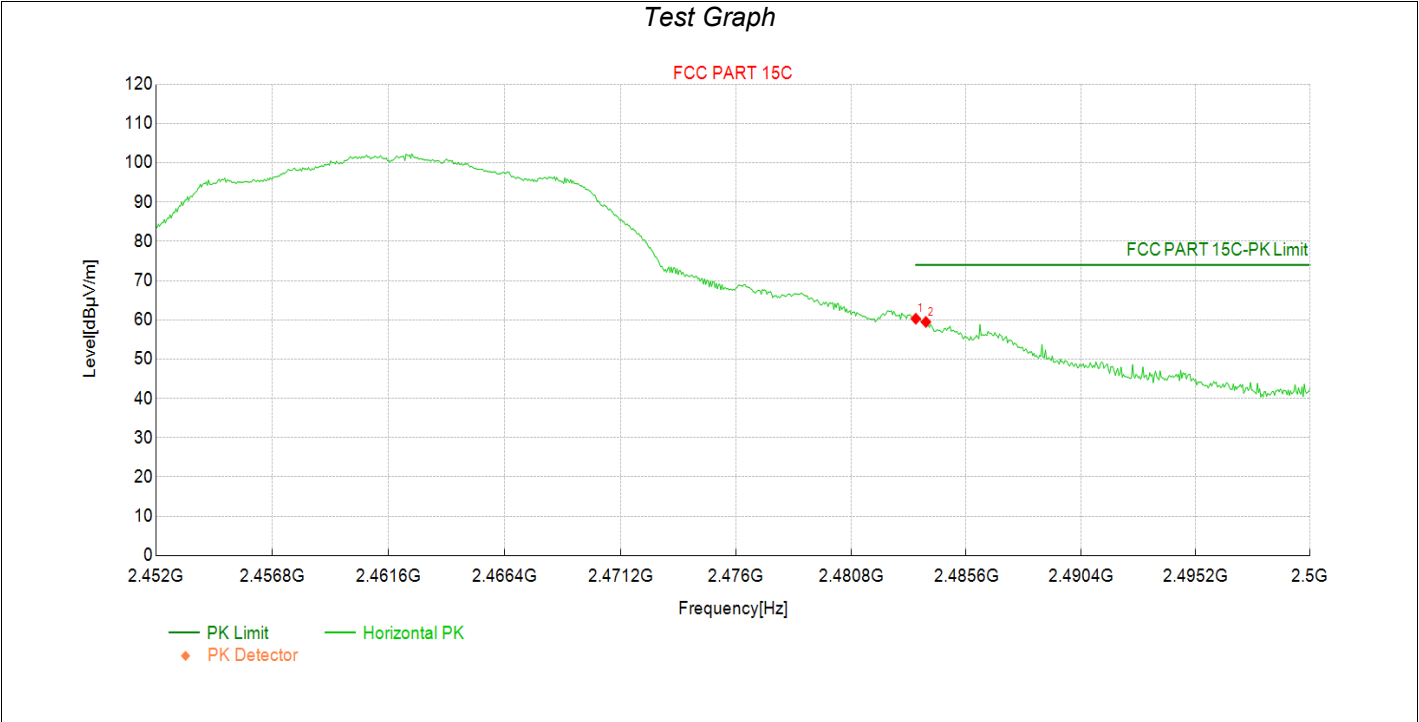
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.07	49.89	49.77	-0.120	54.00	4.23	AV	Vertic	PASS
2	2390.00	50.12	50.00	-0.120	54.00	4.00	AV	Vertic	PASS

Transmit at 2412MHz by 802.11g



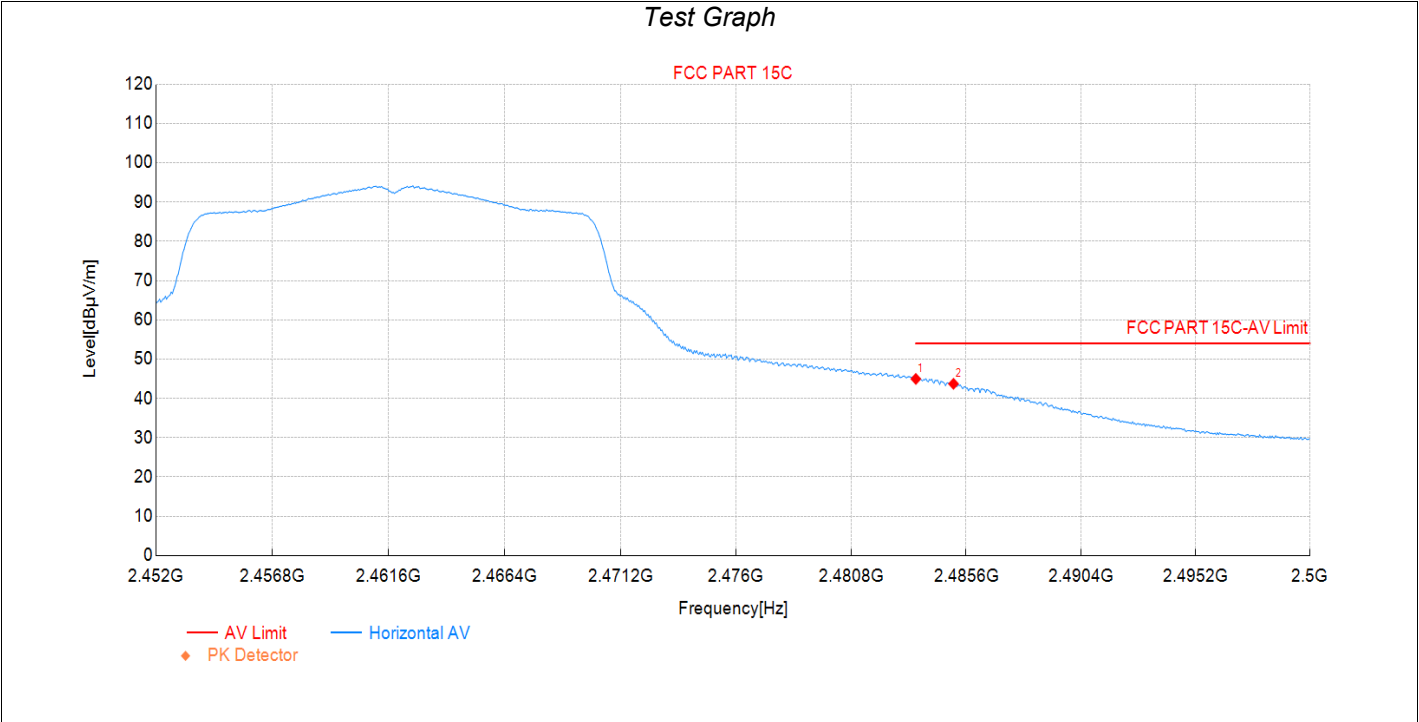
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2381.90	60.46	60.33	-0.130	74.00	13.67	PK	Vertic	PASS
2	2390.00	66.84	66.72	-0.120	74.00	7.28	PK	Vertic	PASS

Transmit at 2462MHz by 802.11g



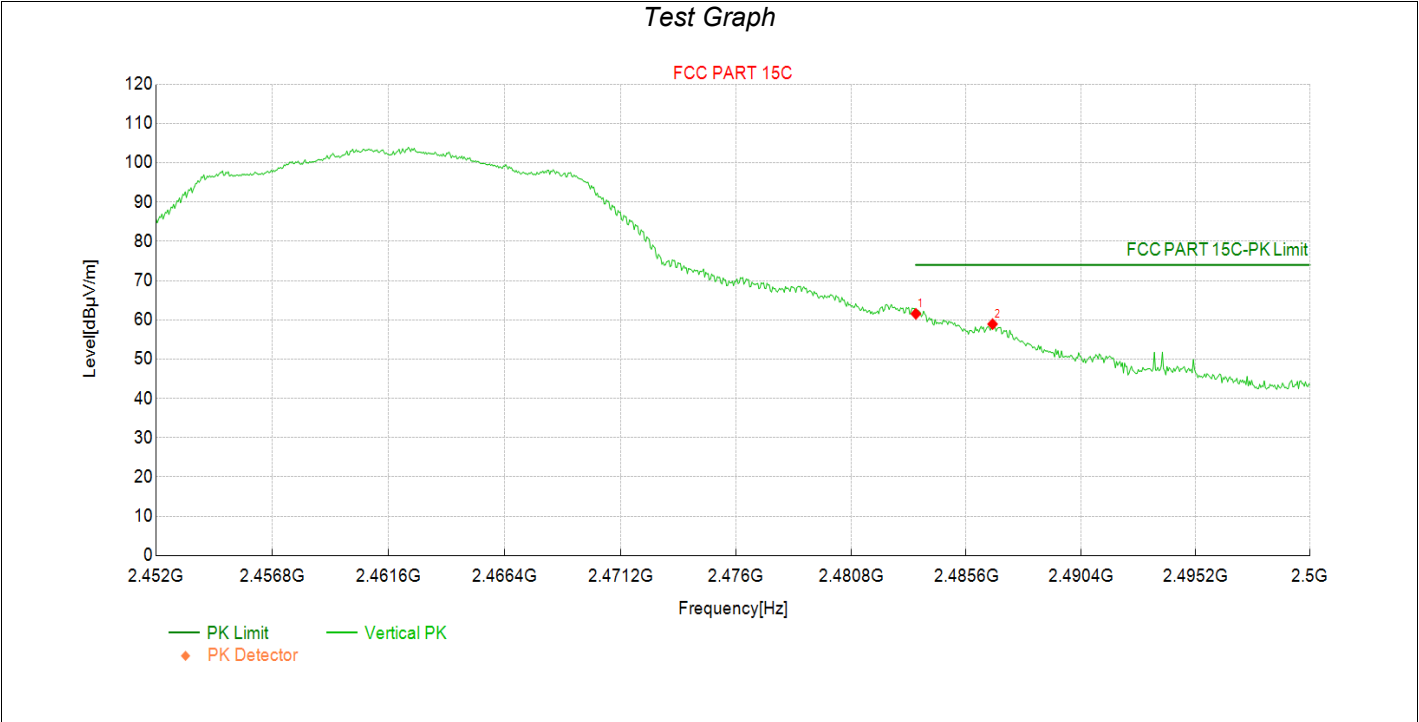
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	60.14	60.29	0.150	74.00	13.71	PK	Horizo	PASS
2	2483.92	59.32	59.47	0.150	74.00	14.53	PK	Horizo	PASS

Transmit at 2462MHz by 802.11g



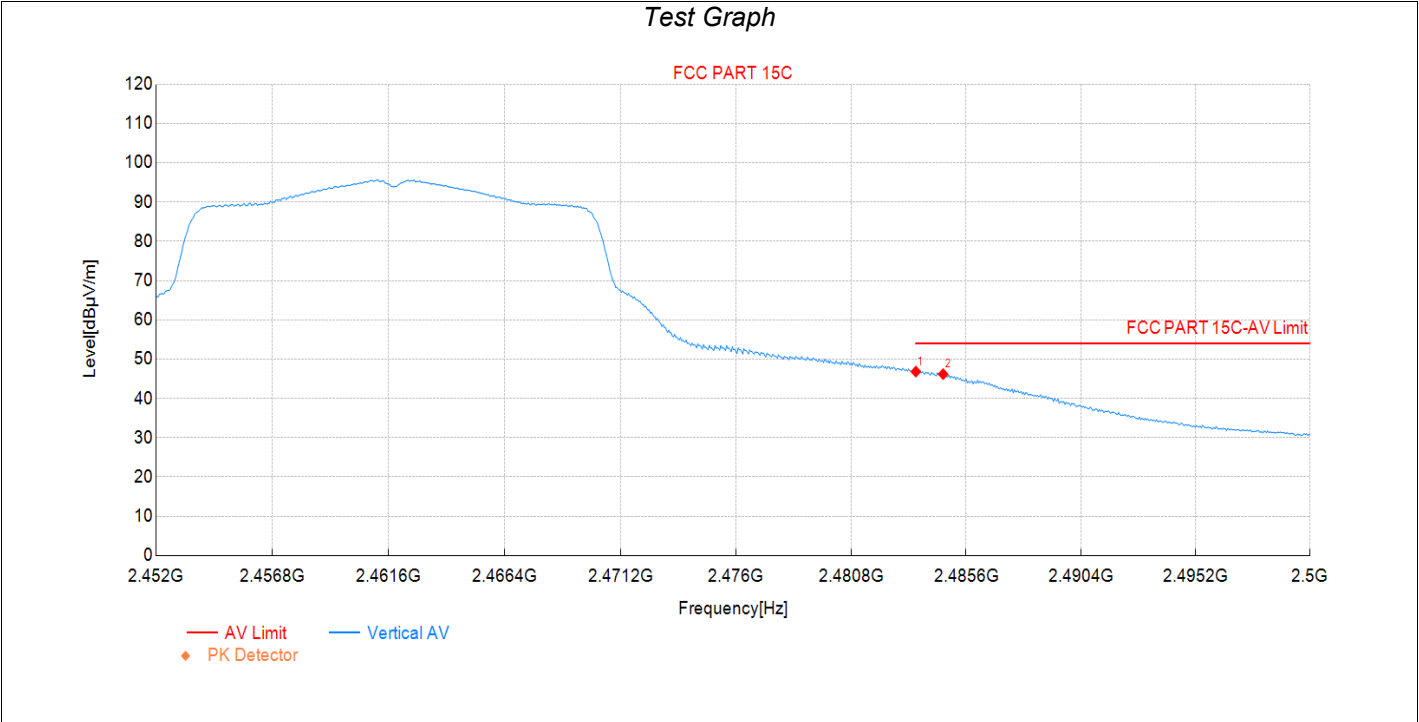
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	44.82	44.97	0.150	54.00	9.03	AV	Horizo	PASS
2	2485.07	43.57	43.73	0.160	54.00	10.27	AV	Horizo	PASS

Transmit at 2462MHz by 802.11g



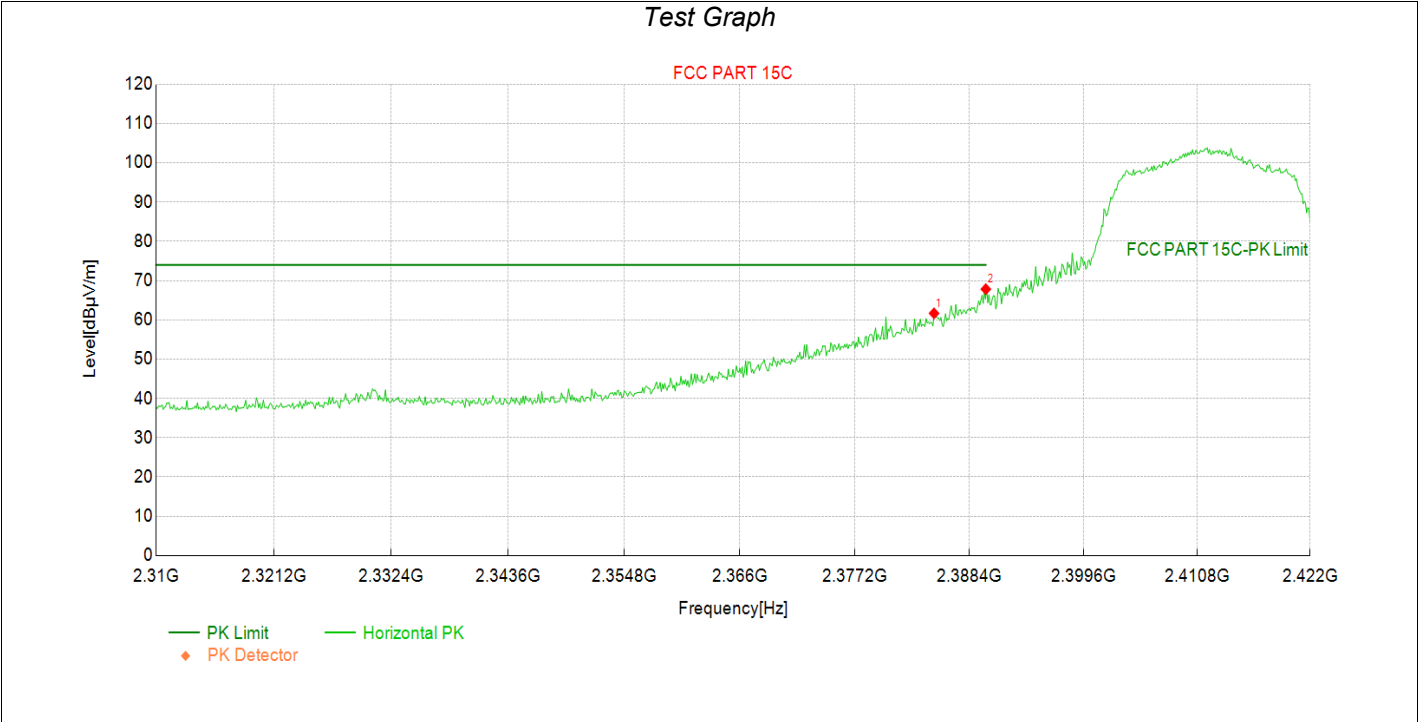
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	61.39	61.54	0.150	74.00	12.46	PK	Vertic	PASS
2	2486.70	58.77	58.93	0.160	74.00	15.07	PK	Vertic	PASS

Transmit at 2462MHz by 802.11g



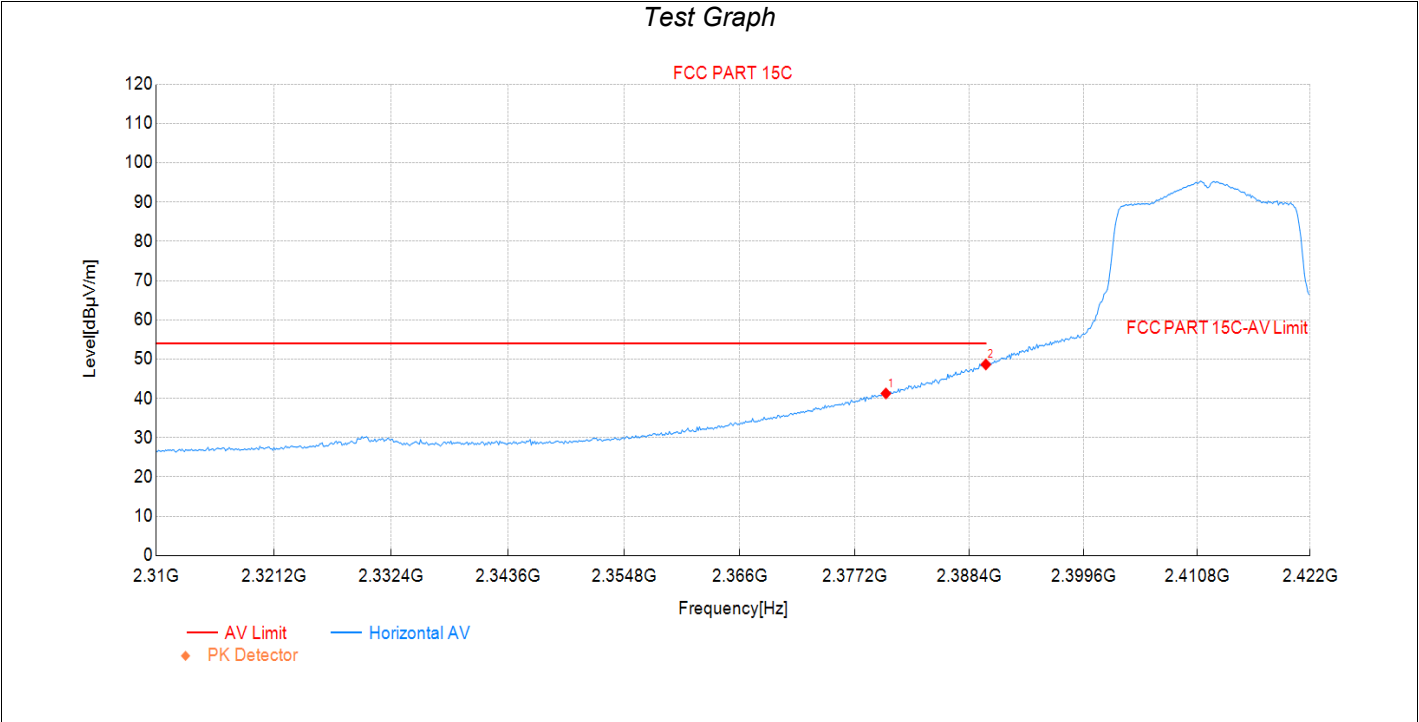
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	46.69	46.84	0.150	54.00	7.16	AV	Vertic	PASS
2	2484.64	46.03	46.18	0.150	54.00	7.82	AV	Vertic	PASS

Transmit at 2412MHz by 802.11n(20MHz)



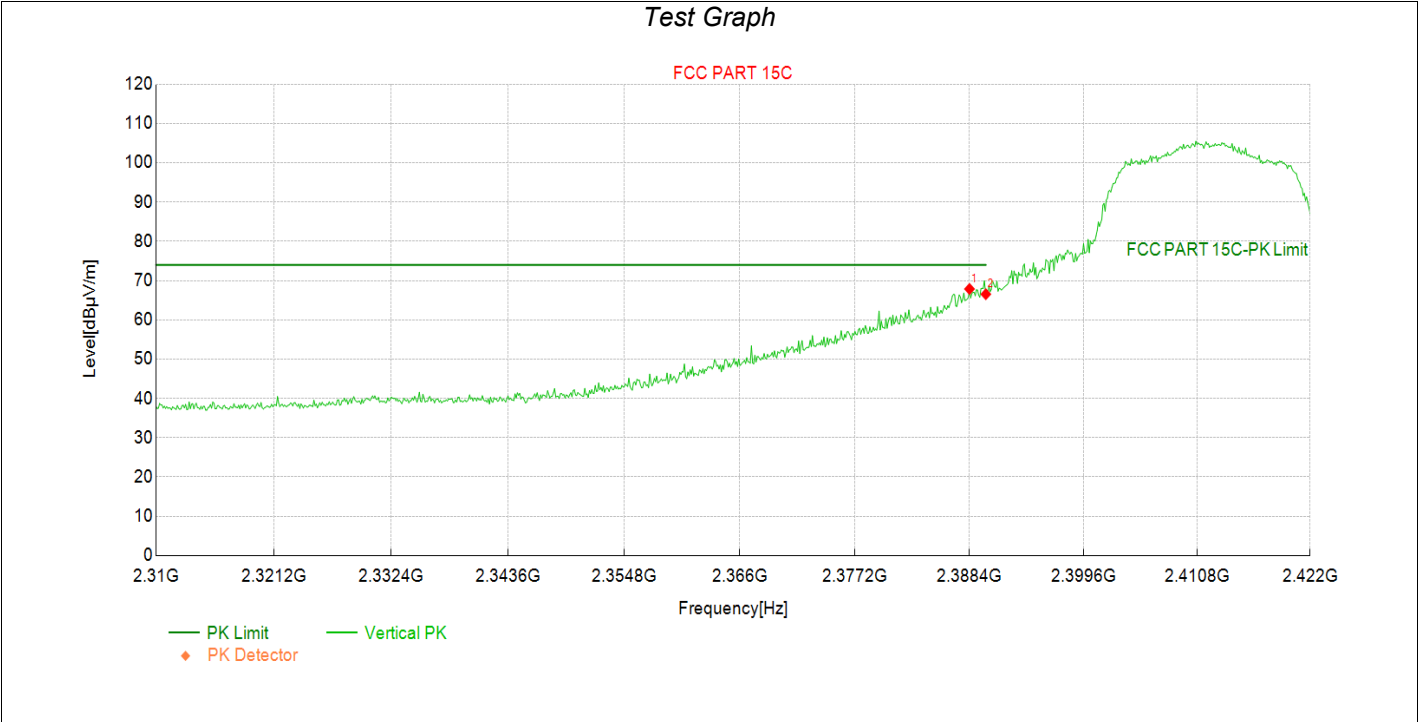
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2384.93	61.78	61.66	-0.120	74.00	12.34	PK	Horizo	PASS
2	2390.00	67.94	67.82	-0.120	74.00	6.18	PK	Horizo	PASS

Transmit at 2412MHz by 802.11n(20MHz)



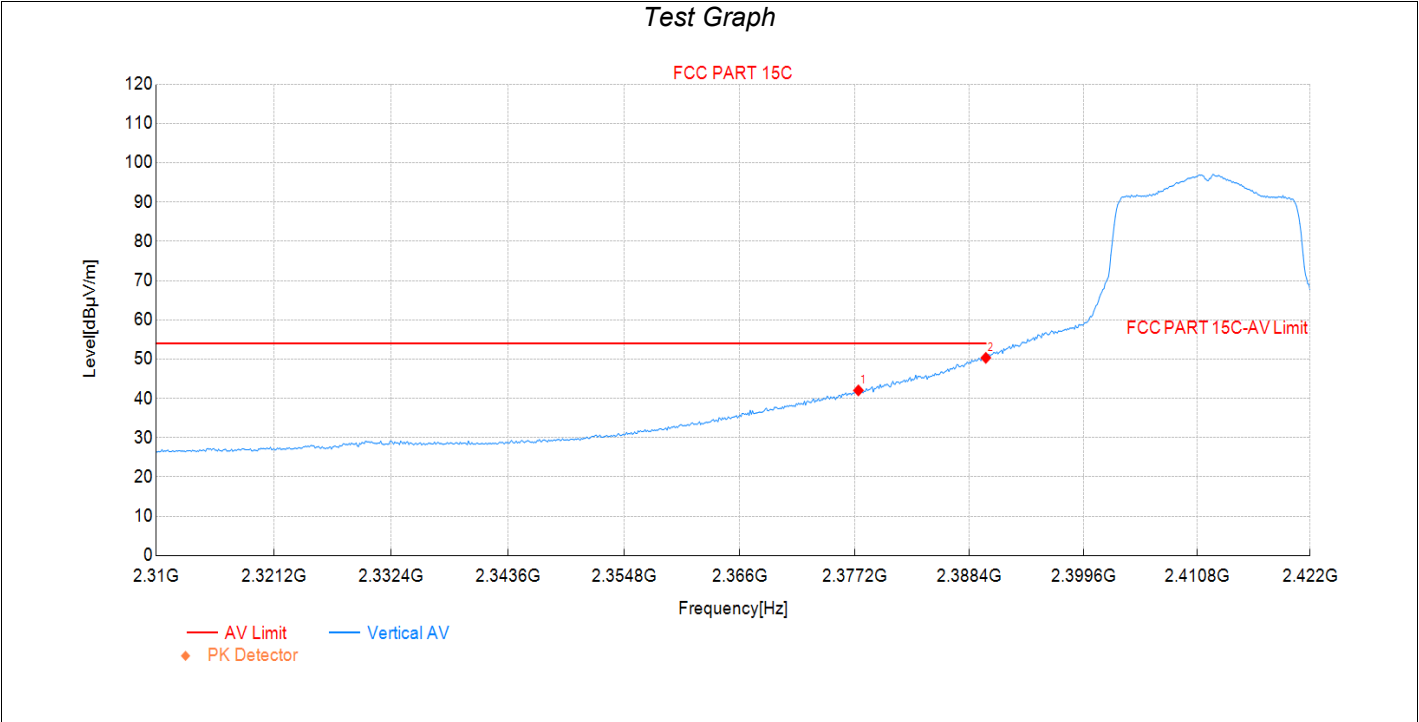
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2380.22	41.40	41.27	-0.130	54.00	12.73	AV	Horizo	PASS
2	2390.00	48.77	48.65	-0.120	54.00	5.35	AV	Horizo	PASS

Transmit at 2412MHz by 802.11n(20MHz)



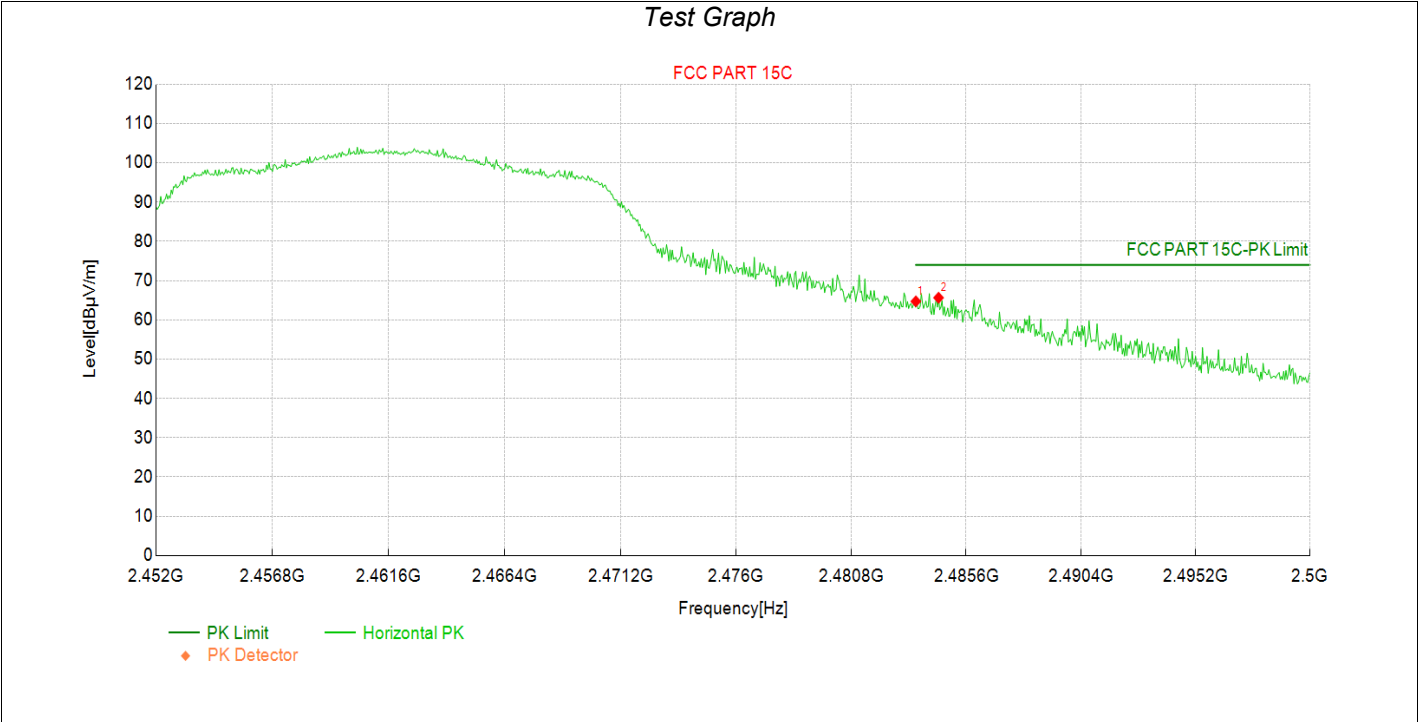
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.40	67.99	67.87	-0.120	74.00	6.13	PK	Vertic	PASS
2	2390.00	66.66	66.54	-0.120	74.00	7.46	PK	Vertic	PASS

Transmit at 2412MHz by 802.11n(20MHz)



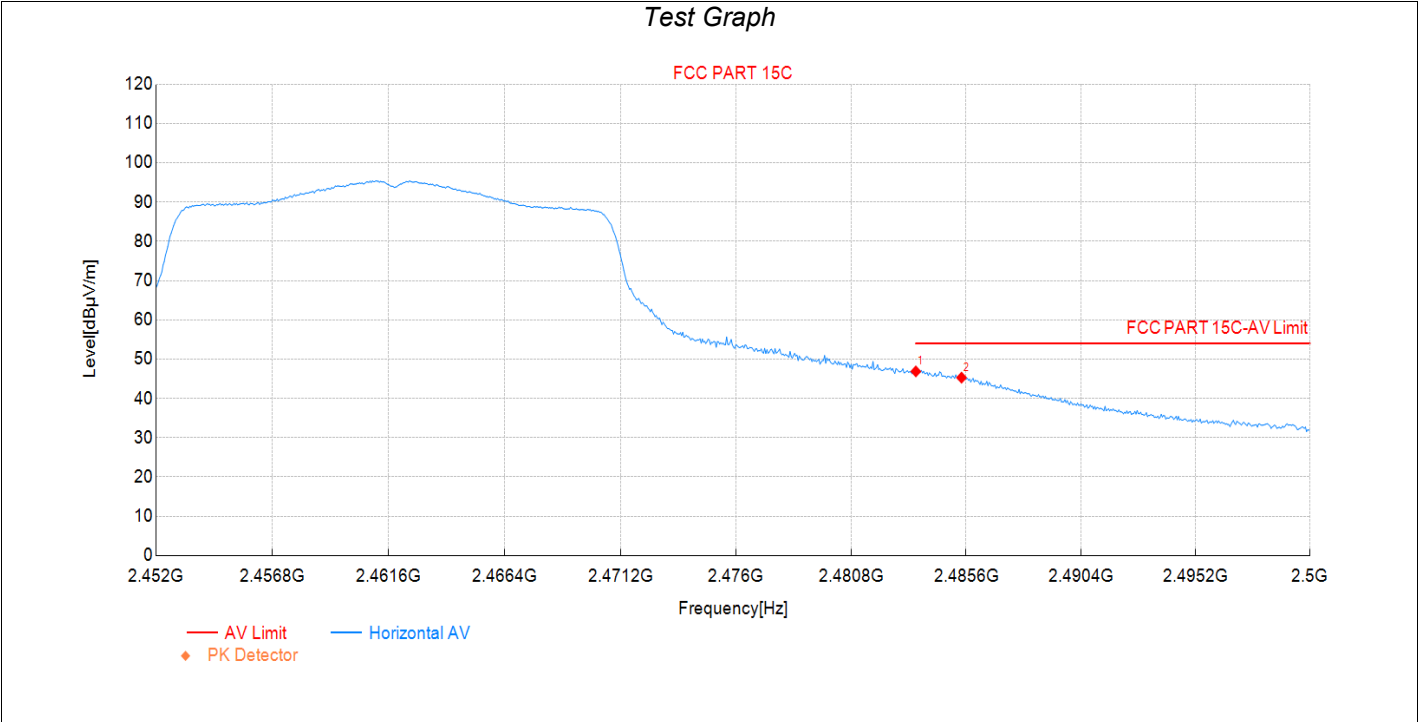
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2377.54	42.18	42.04	-0.140	54.00	11.96	AV	Vertic	PASS
2	2390.00	50.45	50.33	-0.120	54.00	3.67	AV	Vertic	PASS

Transmit at 2462MHz by 802.11n(20MHz)



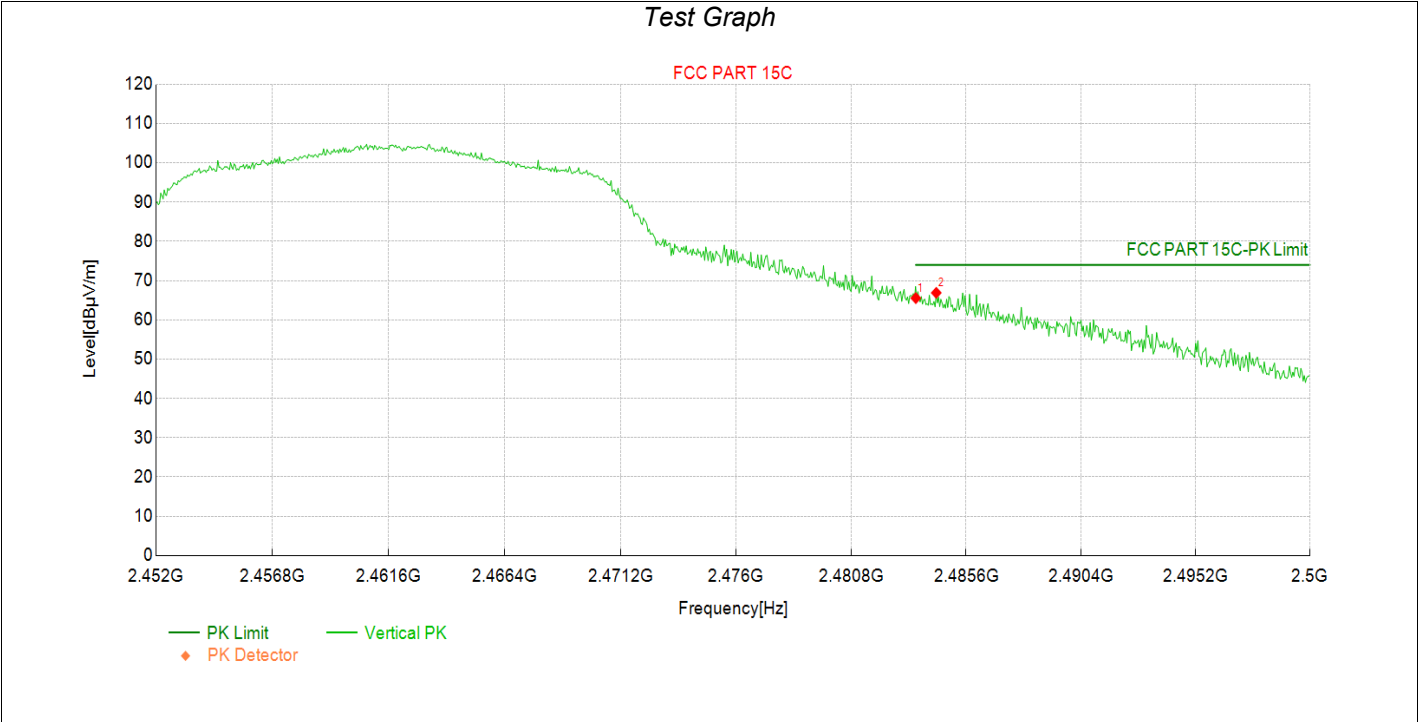
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	64.56	64.71	0.150	74.00	9.29	PK	Horizo	PASS
2	2484.45	65.49	65.64	0.150	74.00	8.36	PK	Horizo	PASS

Transmit at 2462MHz by 802.11n(20MHz)



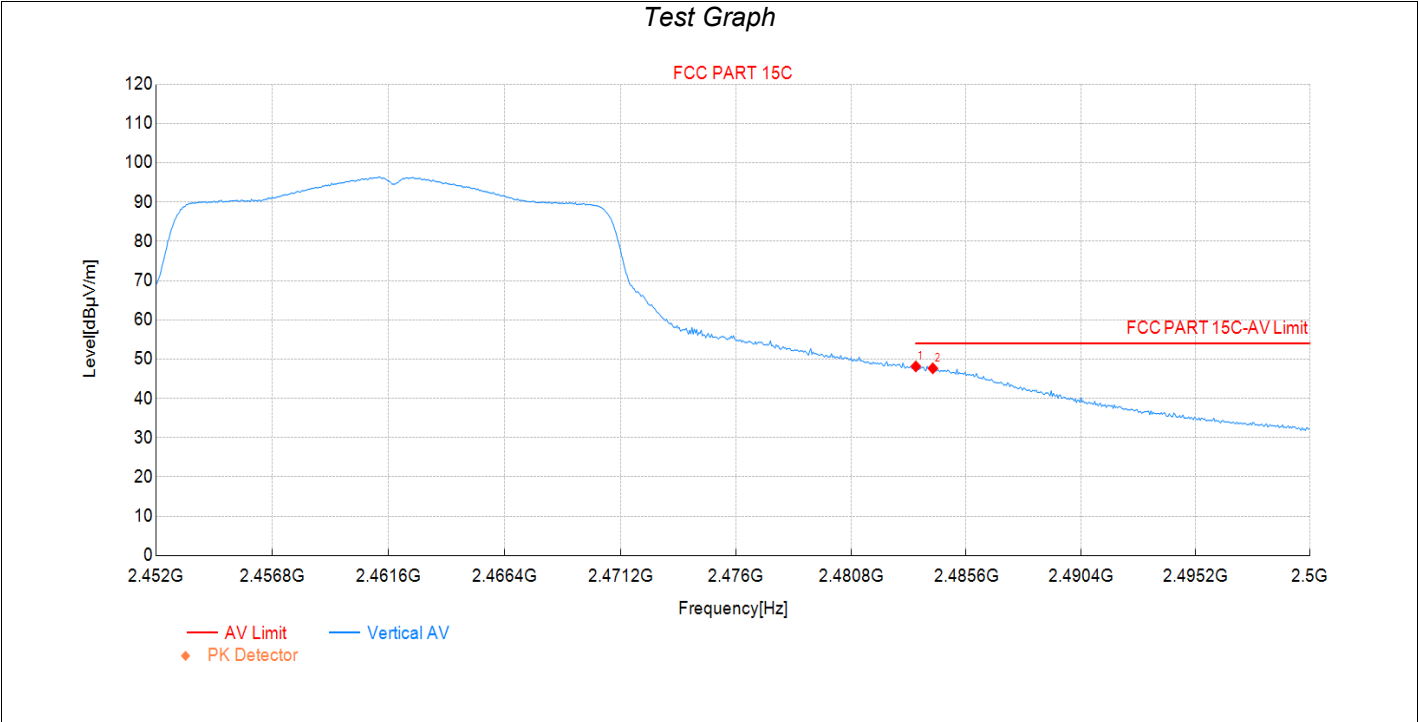
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	46.73	46.88	0.150	54.00	7.12	AV	Horizo	PASS
2	2485.41	45.13	45.29	0.160	54.00	8.71	AV	Horizo	PASS

Transmit at 2462MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	65.39	65.54	0.150	74.00	8.46	PK	Vertic	PASS
2	2484.35	66.73	66.88	0.150	74.00	7.12	PK	Vertic	PASS

Transmit at 2462MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	48.00	48.15	0.150	54.00	5.85	AV	Vertic	PASS
2	2484.21	47.51	47.66	0.150	54.00	6.34	AV	Vertic	PASS

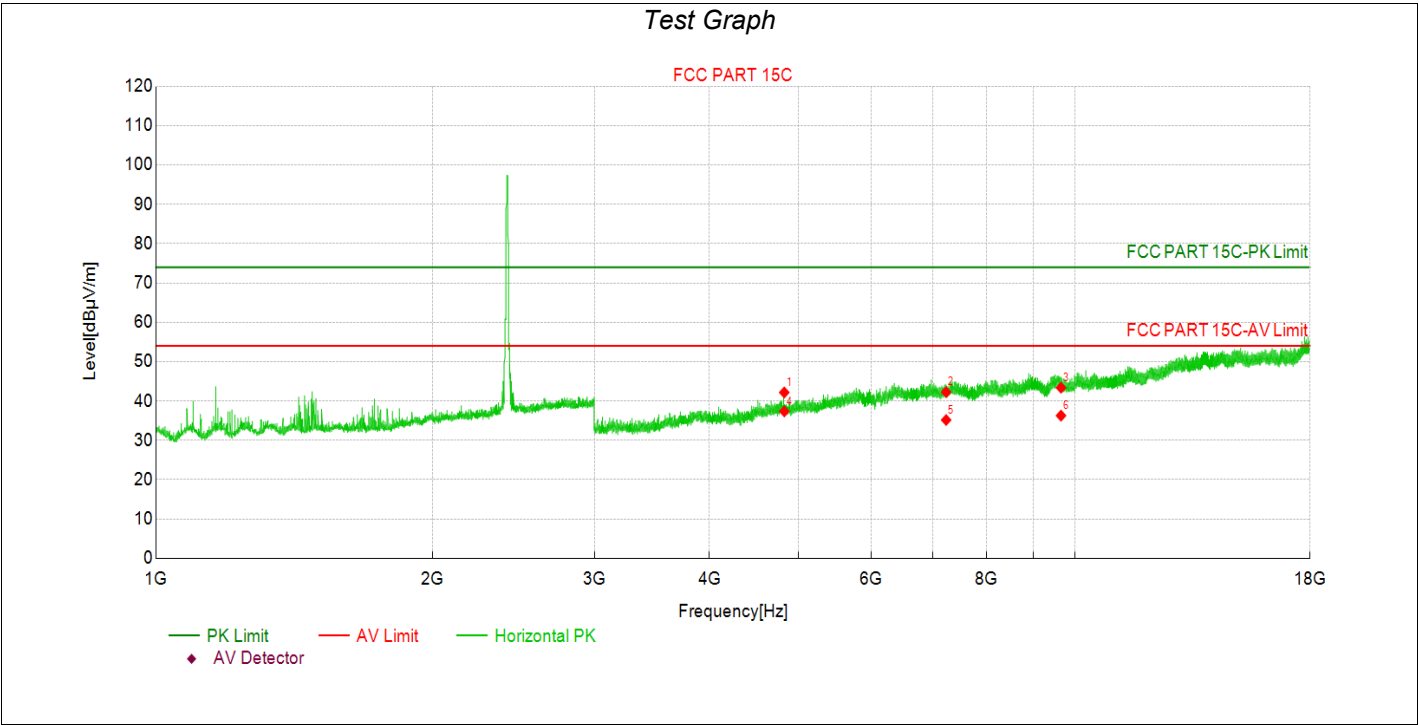
Note:

1.Level=Reading+Factor

2. Margin=Limit-Level

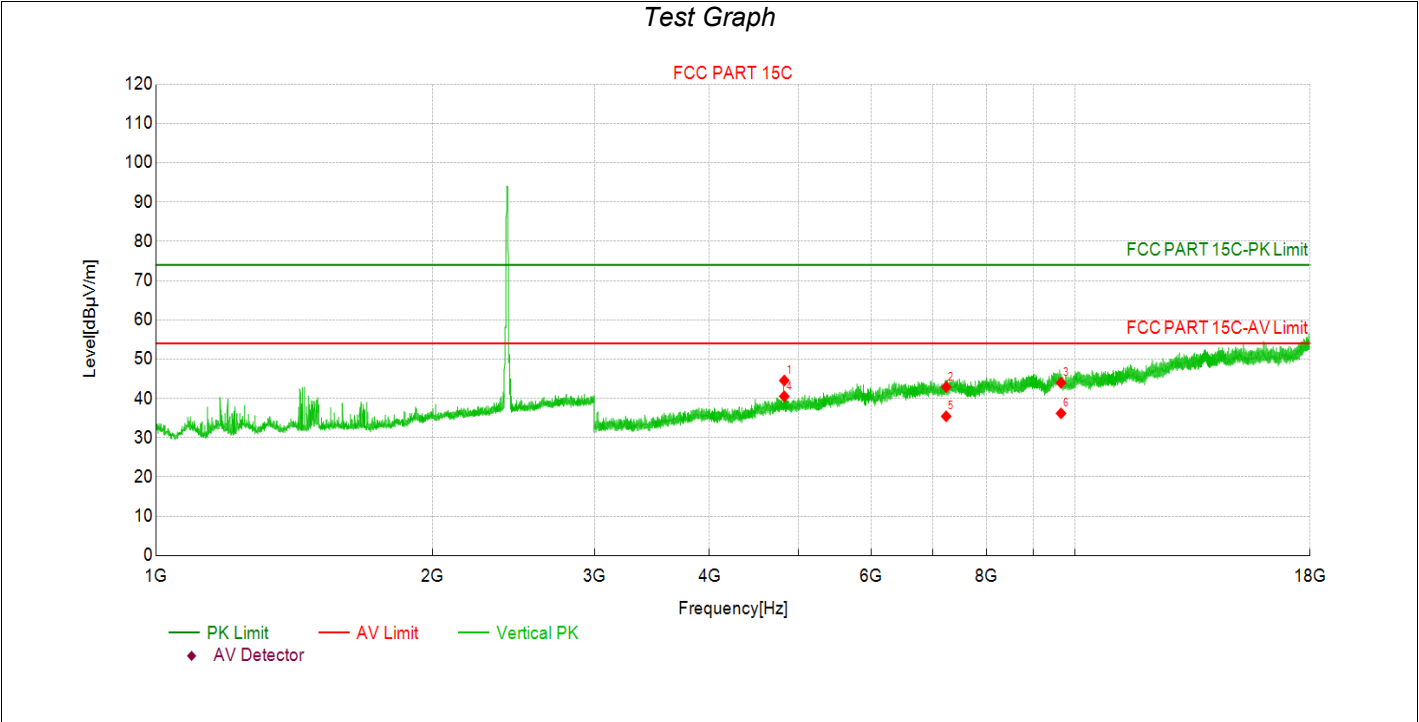
Appendix C: Emissions in Restricted Bands

Transmit at 2412MHz by 802.11b



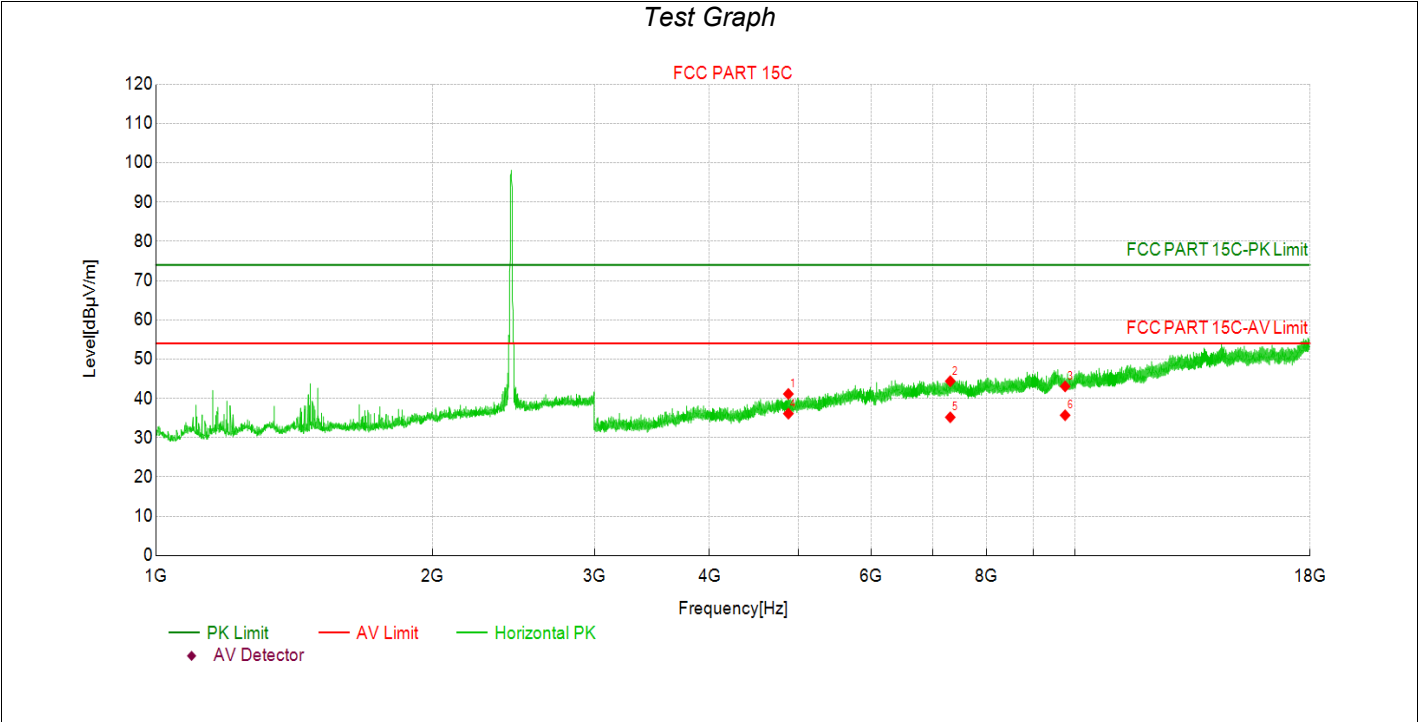
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	49.23	42.17	-7.060	74.00	31.83	PK	Horizo	PASS
2	7236.00	42.44	42.26	-0.180	74.00	31.74	PK	Horizo	PASS
3	9648.00	41.00	43.38	2.380	74.00	30.62	PK	Horizo	PASS
4	4824.00	44.41	37.35	-7.060	54.00	16.65	AV	Horizo	PASS
5	7236.00	35.35	35.17	-0.180	54.00	18.83	AV	Horizo	PASS
6	9648.00	33.90	36.28	2.380	54.00	17.72	AV	Horizo	PASS

Transmit at 2412MHz by 802.11b



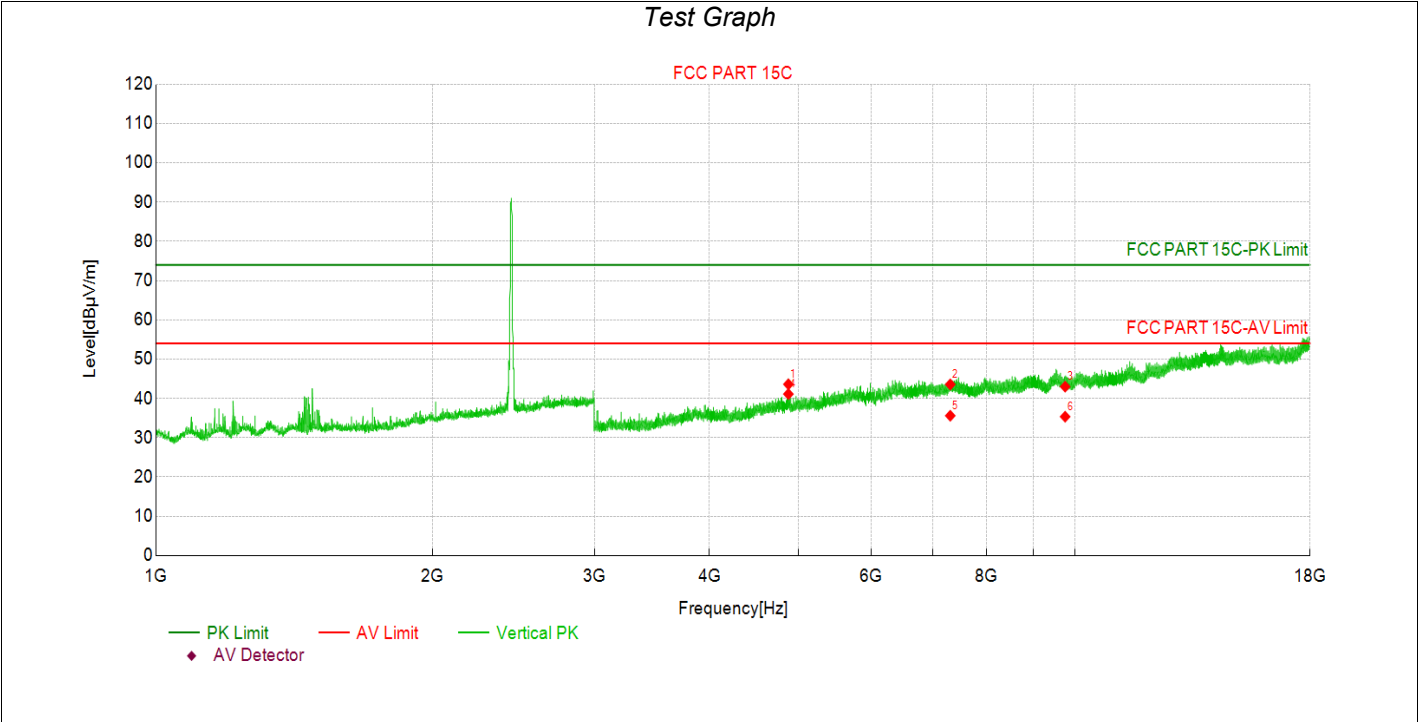
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	51.62	44.56	-7.060	74.00	29.44	PK	Vertic	PASS
2	7236.00	43.10	42.92	-0.180	74.00	31.08	PK	Vertic	PASS
3	9648.00	41.61	43.99	2.380	74.00	30.01	PK	Vertic	PASS
4	4824.00	47.60	40.54	-7.060	54.00	13.46	AV	Vertic	PASS
5	7236.00	35.63	35.45	-0.180	54.00	18.55	AV	Vertic	PASS
6	9648.00	33.83	36.21	2.380	54.00	17.79	AV	Vertic	PASS

Transmit at 2437MHz by 802.11b



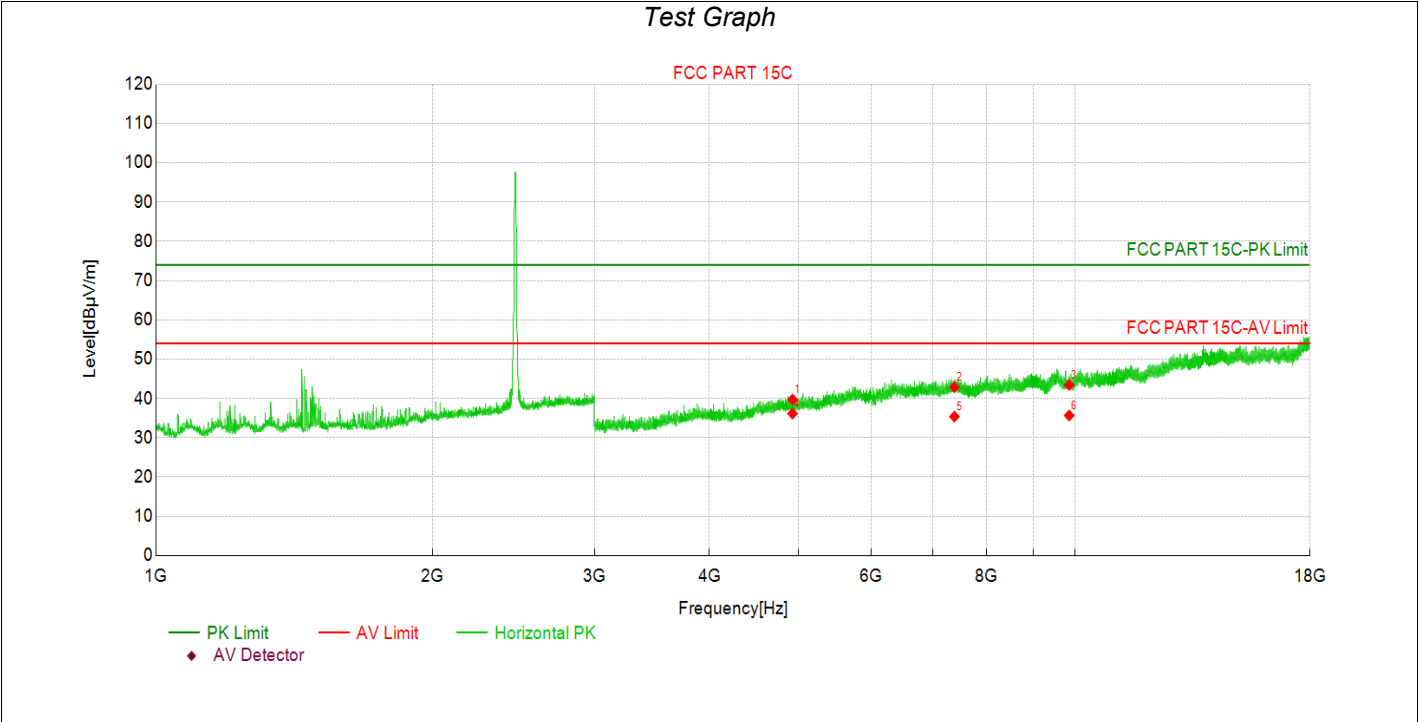
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	48.18	41.14	-7.040	74.00	32.86	PK	Horizo	PASS
2	7311.00	44.57	44.38	-0.190	74.00	29.62	PK	Horizo	PASS
3	9748.00	40.73	43.07	2.340	74.00	30.93	PK	Horizo	PASS
4	4874.00	43.17	36.13	-7.040	54.00	17.87	AV	Horizo	PASS
5	7311.00	35.40	35.21	-0.190	54.00	18.79	AV	Horizo	PASS
6	9748.00	33.38	35.72	2.340	54.00	18.28	AV	Horizo	PASS

Transmit at 2437MHz by 802.11b



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	50.64	43.60	-7.040	74.00	30.40	PK	Vertic	PASS
2	7311.00	43.76	43.57	-0.190	74.00	30.43	PK	Vertic	PASS
3	9748.00	40.66	43.00	2.340	74.00	31.00	PK	Vertic	PASS
4	4874.00	48.16	41.12	-7.040	54.00	12.88	AV	Vertic	PASS
5	7311.00	35.79	35.60	-0.190	54.00	18.40	AV	Vertic	PASS
6	9748.00	33.02	35.36	2.340	54.00	18.64	AV	Vertic	PASS

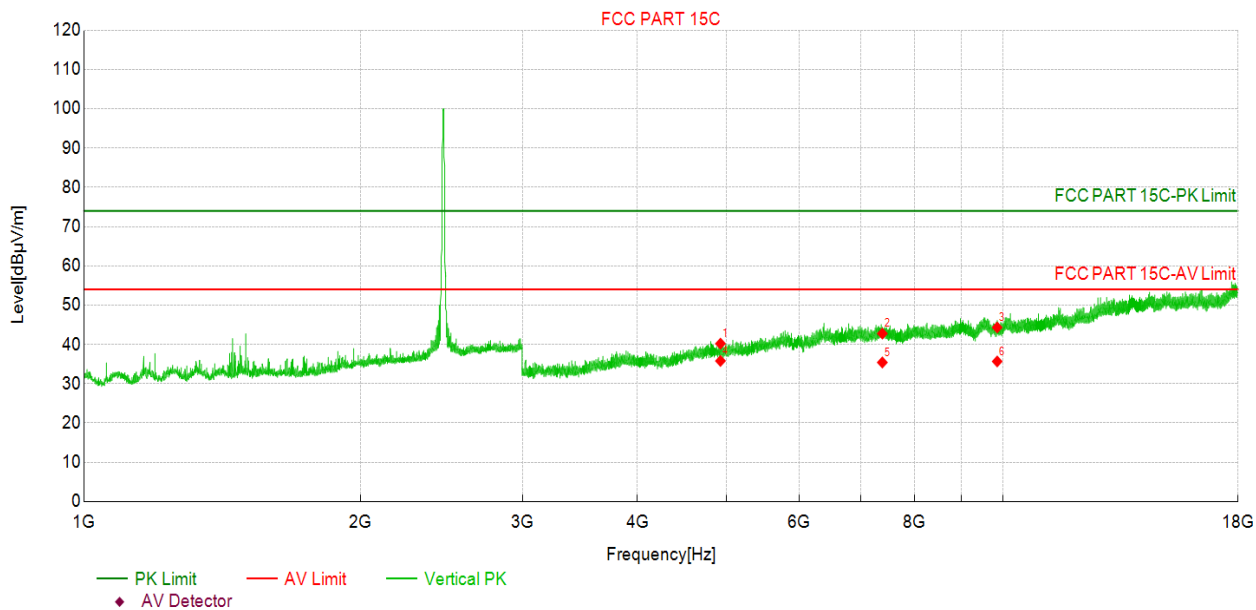
Transmit at 2462MHz by 802.11b



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	46.60	39.72	-6.880	74.00	34.28	PK	Horizo	PASS
2	7386.00	42.93	42.86	-0.070	74.00	31.14	PK	Horizo	PASS
3	9848.00	40.82	43.41	2.590	74.00	30.59	PK	Horizo	PASS
4	4924.00	43.03	36.15	-6.880	54.00	17.85	AV	Horizo	PASS
5	7386.00	35.45	35.38	-0.070	54.00	18.62	AV	Horizo	PASS
6	9848.00	33.07	35.66	2.590	54.00	18.34	AV	Horizo	PASS

Transmit at 2462MHz by 802.11b

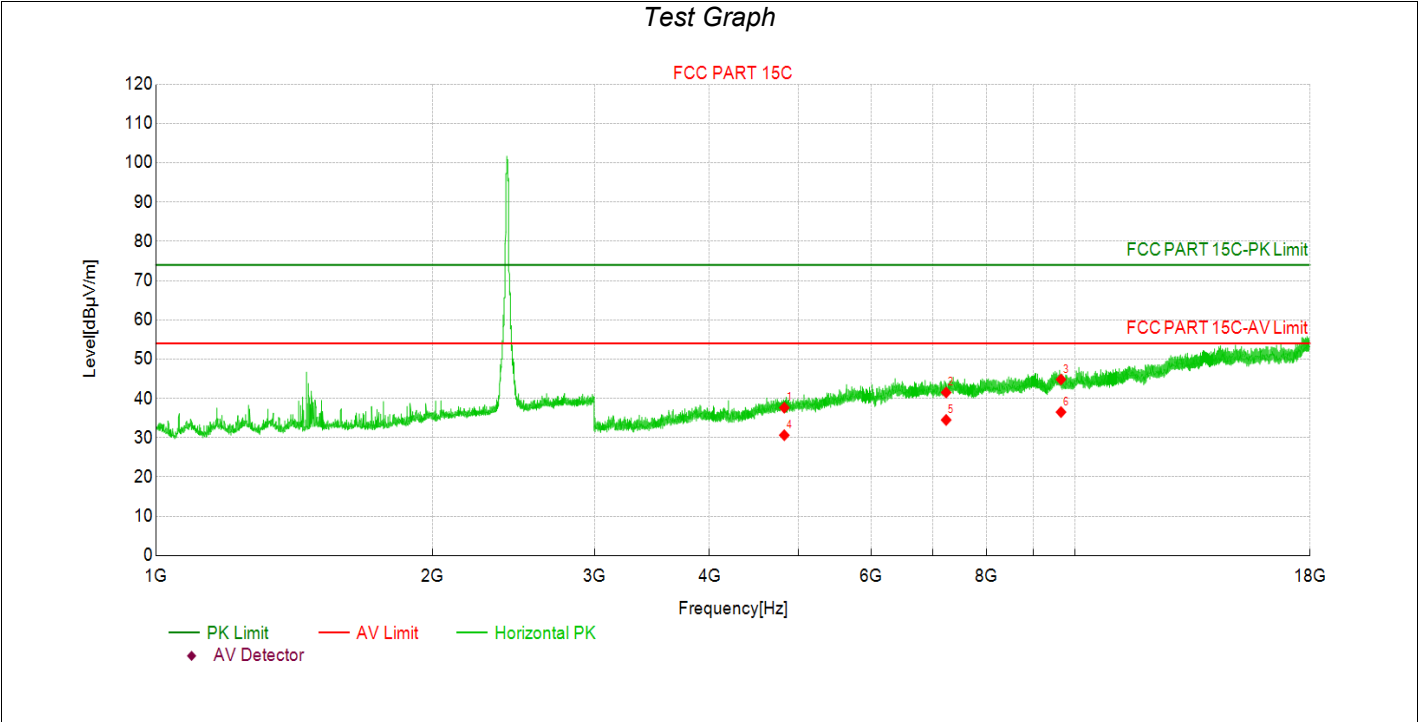
Test Graph



Data List

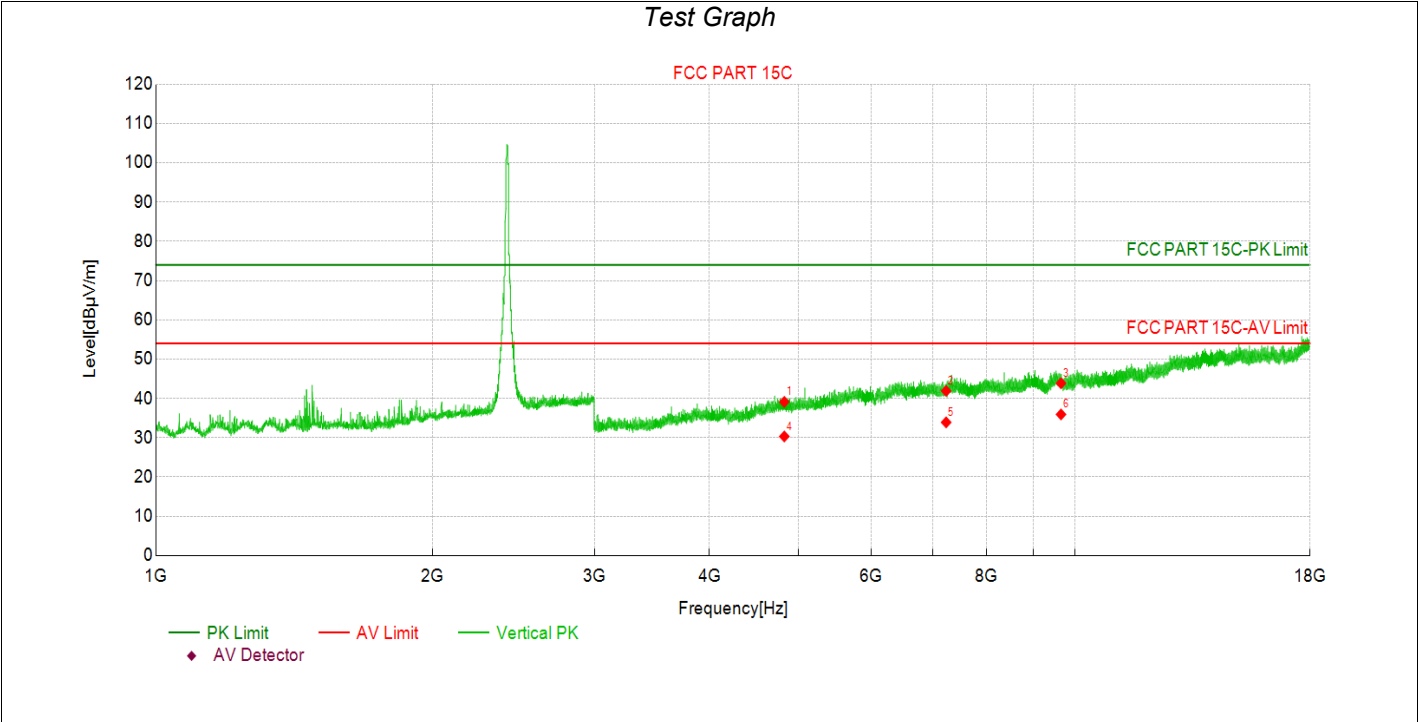
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	47.09	40.21	-6.880	74.00	33.79	PK	Vertic	PASS
2	7386.00	42.84	42.77	-0.070	74.00	31.23	PK	Vertic	PASS
3	9848.00	41.73	44.32	2.590	74.00	29.68	PK	Vertic	PASS
4	4924.00	42.69	35.81	-6.880	54.00	18.19	AV	Vertic	PASS
5	7386.00	35.49	35.42	-0.070	54.00	18.58	AV	Vertic	PASS
6	9848.00	33.09	35.68	2.590	54.00	18.32	AV	Vertic	PASS

Transmit at 2412MHz by 802.11g



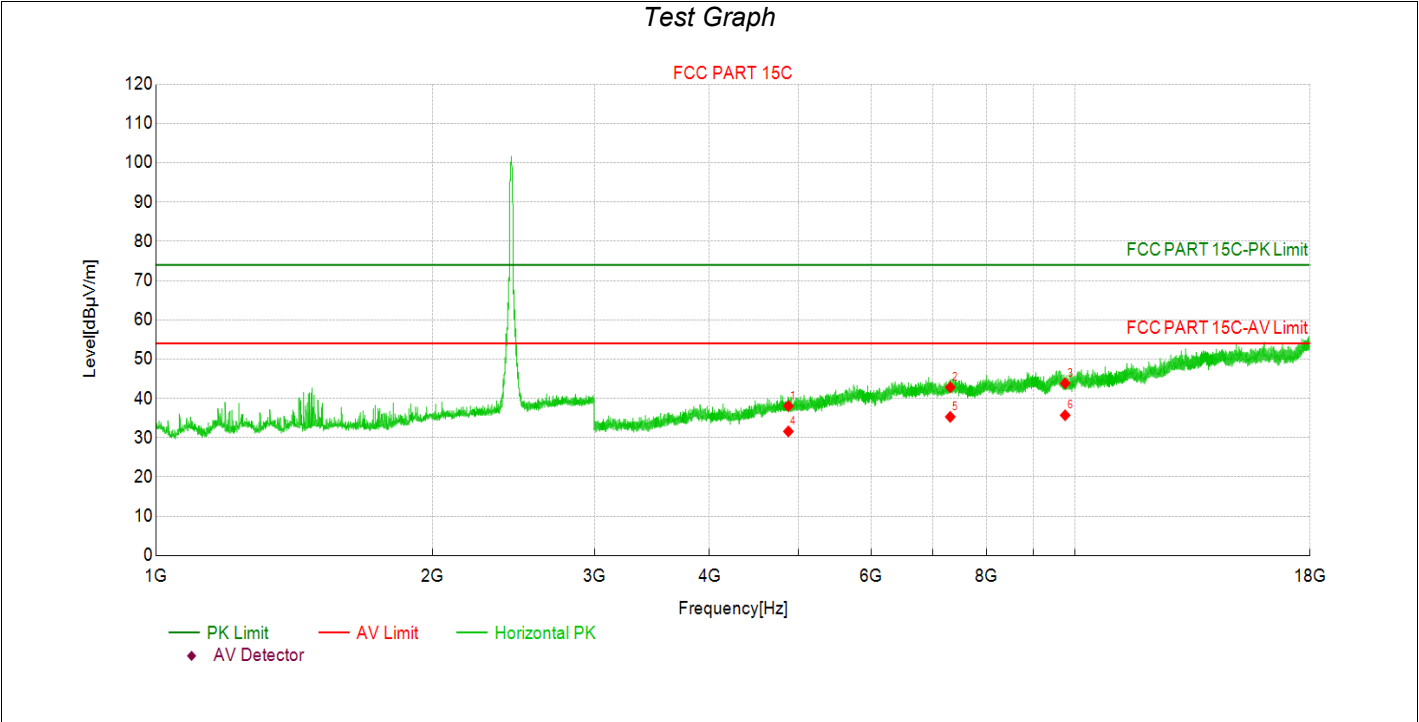
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	44.70	37.64	-7.060	74.00	36.36	PK	Horizo	PASS
2	7236.00	41.70	41.52	-0.180	74.00	32.48	PK	Horizo	PASS
3	9648.00	42.44	44.82	2.380	74.00	29.18	PK	Horizo	PASS
4	4824.00	37.70	30.64	-7.060	54.00	23.36	AV	Horizo	PASS
5	7236.00	34.70	34.52	-0.180	54.00	19.48	AV	Horizo	PASS
6	9648.00	34.14	36.52	2.380	54.00	17.48	AV	Horizo	PASS

Transmit at 2412MHz by 802.11g



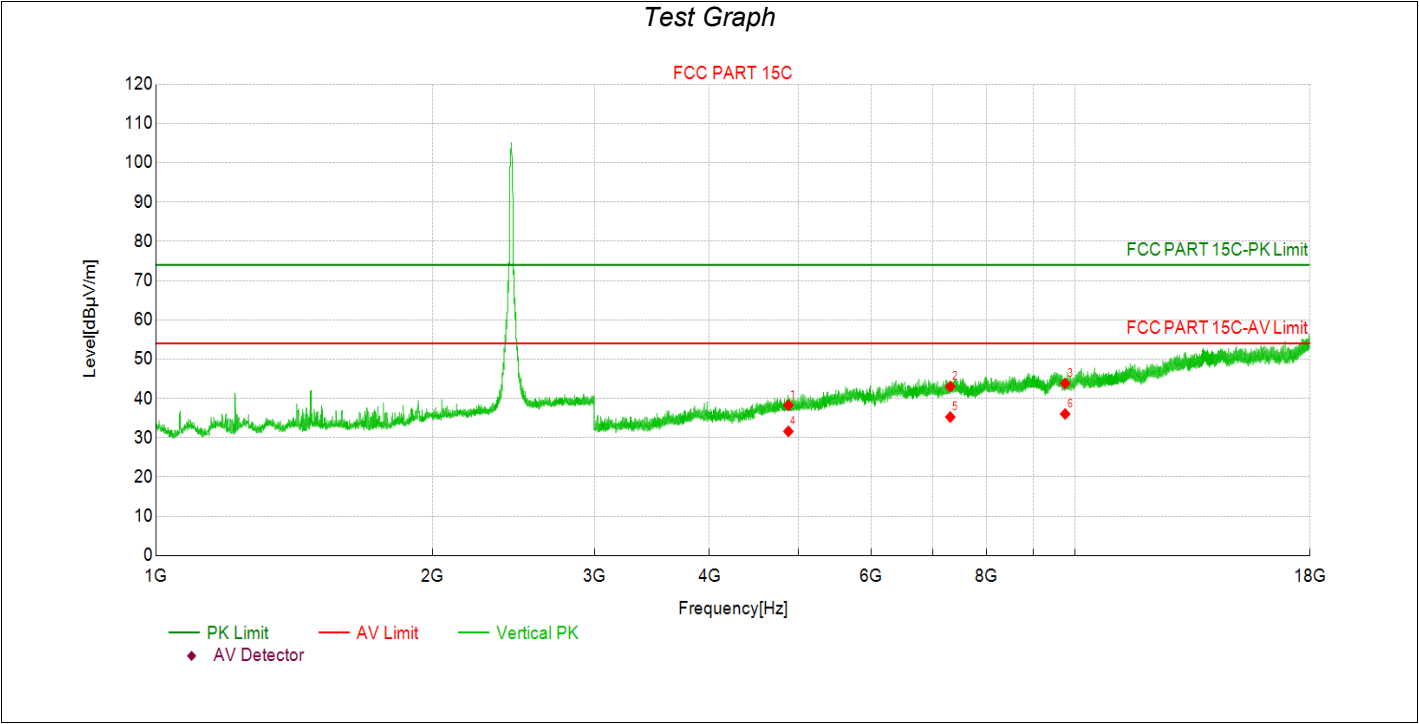
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	46.19	39.13	-7.060	74.00	34.87	PK	Vertic	PASS
2	7236.00	42.09	41.91	-0.180	74.00	32.09	PK	Vertic	PASS
3	9648.00	41.49	43.87	2.380	74.00	30.13	PK	Vertic	PASS
4	4824.00	37.39	30.33	-7.060	54.00	23.67	AV	Vertic	PASS
5	7236.00	34.09	33.91	-0.180	54.00	20.09	AV	Vertic	PASS
6	9648.00	33.56	35.94	2.380	54.00	18.06	AV	Vertic	PASS

Transmit at 2437MHz by 802.11g



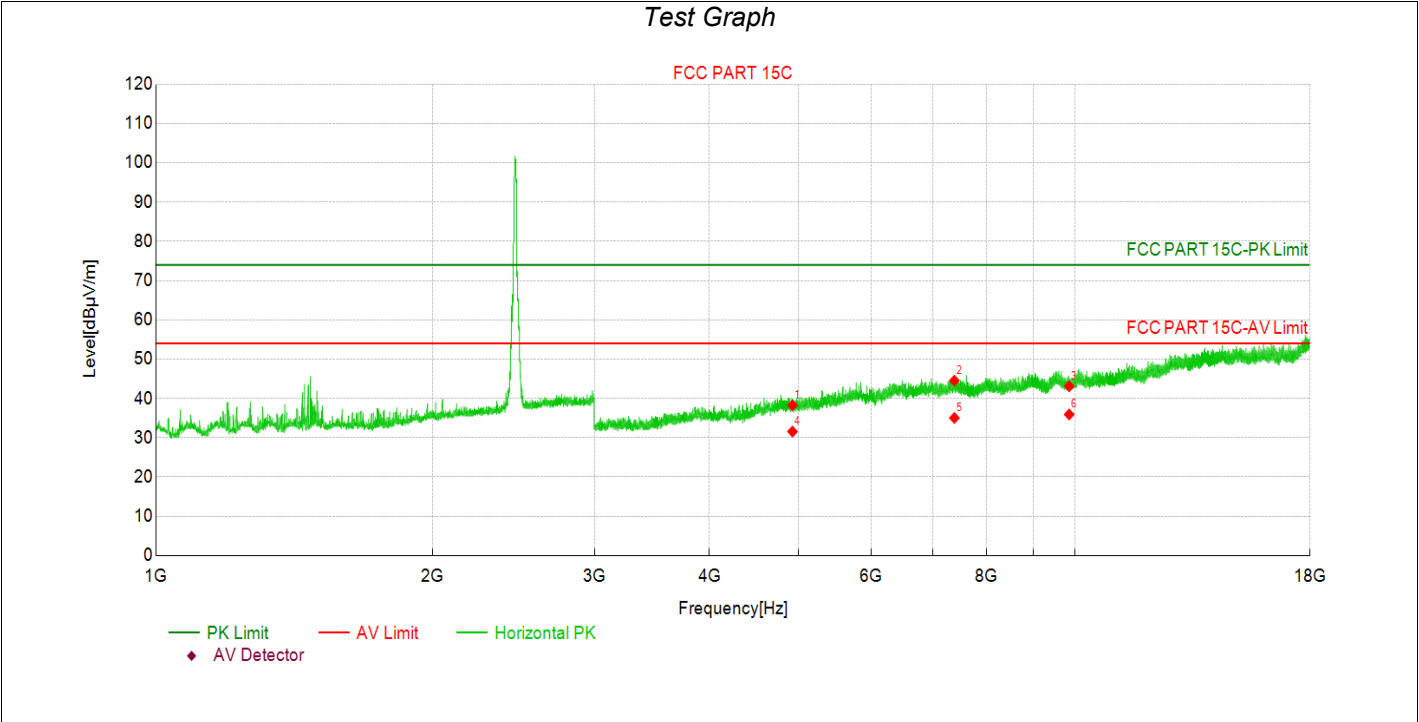
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	45.09	38.05	-7.040	74.00	35.95	PK	Horizo	PASS
2	7311.00	43.03	42.84	-0.190	74.00	31.16	PK	Horizo	PASS
3	9748.00	41.52	43.86	2.340	74.00	30.14	PK	Horizo	PASS
4	4874.00	38.65	31.61	-7.040	54.00	22.39	AV	Horizo	PASS
5	7311.00	35.50	35.31	-0.190	54.00	18.69	AV	Horizo	PASS
6	9748.00	33.38	35.72	2.340	54.00	18.28	AV	Horizo	PASS

Transmit at 2437MHz by 802.11g



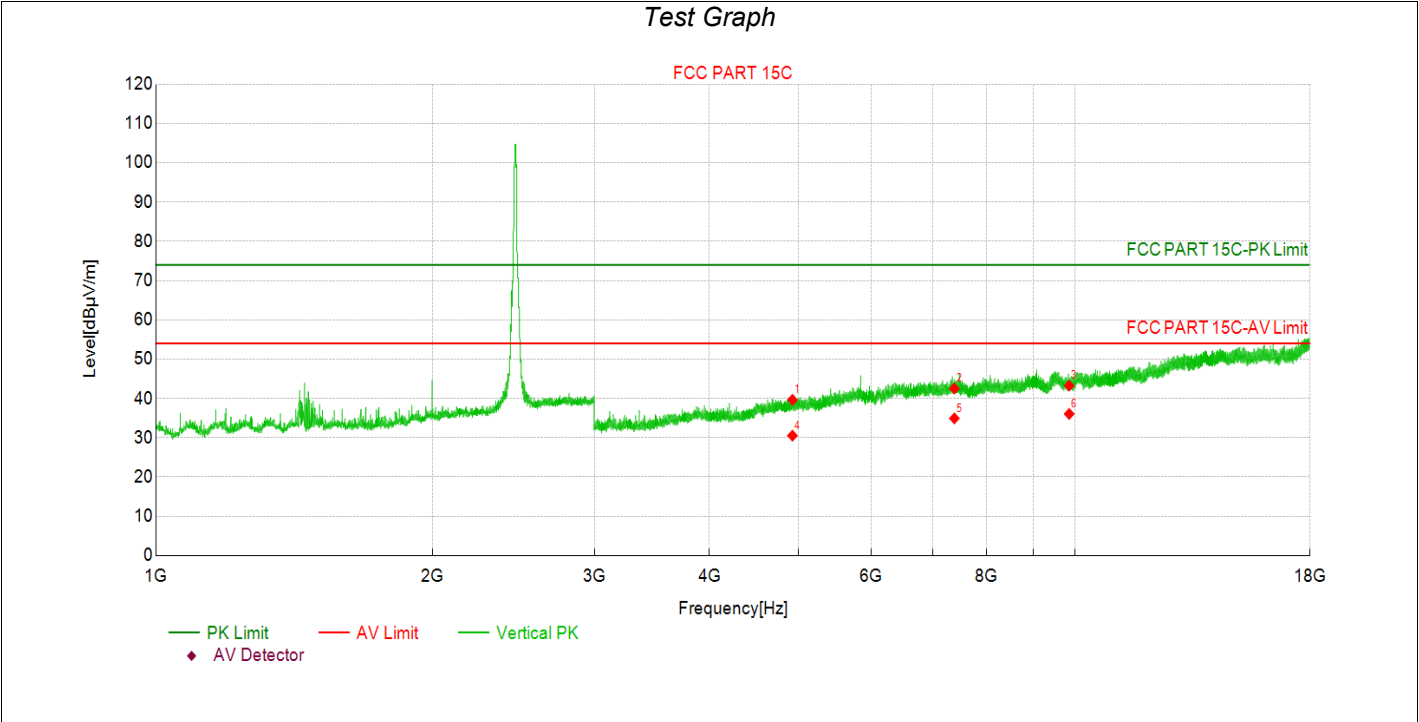
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	45.31	38.27	-7.040	74.00	35.73	PK	Vertic	PASS
2	7311.00	43.21	43.02	-0.190	74.00	30.98	PK	Vertic	PASS
3	9748.00	41.48	43.82	2.340	74.00	30.18	PK	Vertic	PASS
4	4874.00	38.66	31.62	-7.040	54.00	22.38	AV	Vertic	PASS
5	7311.00	35.46	35.27	-0.190	54.00	18.73	AV	Vertic	PASS
6	9748.00	33.71	36.05	2.340	54.00	17.95	AV	Vertic	PASS

Transmit at 2462MHz by 802.11g



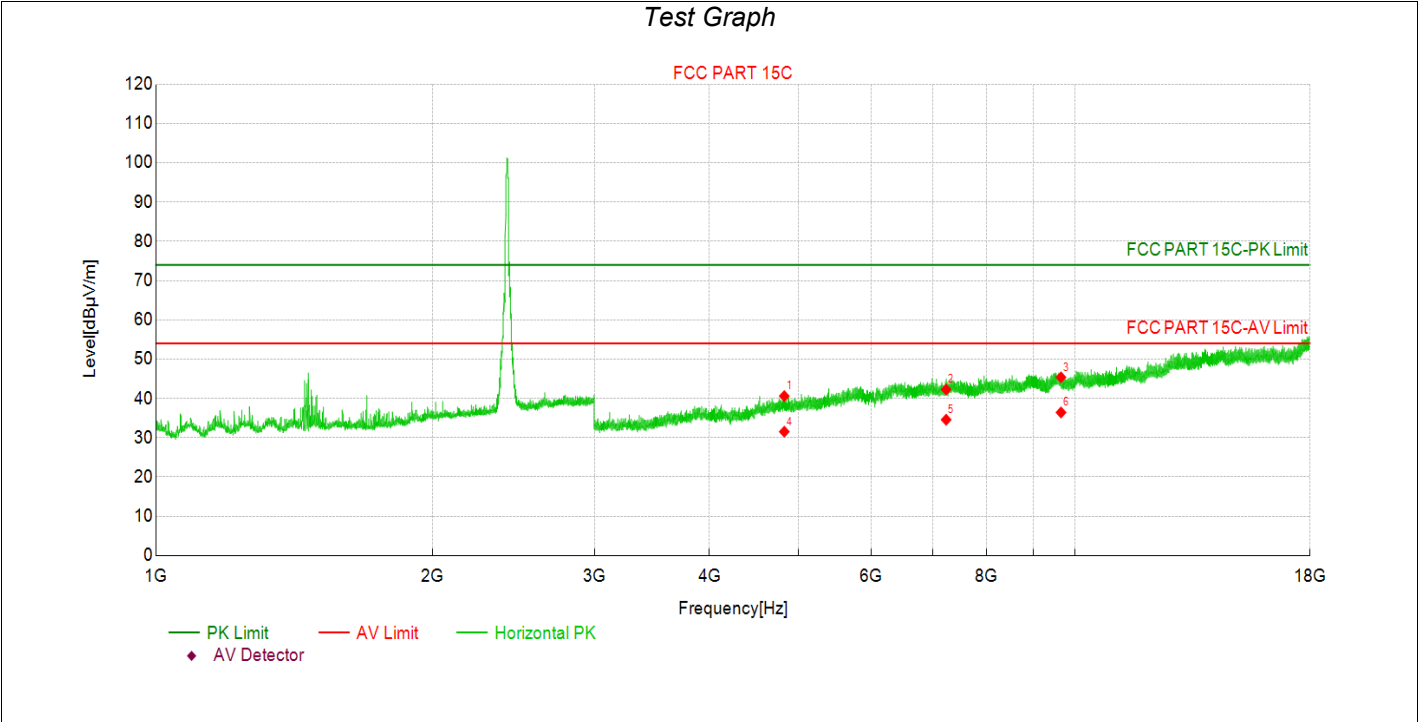
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	45.14	38.26	-6.880	74.00	35.74	PK	Horizo	PASS
2	7386.00	44.60	44.53	-0.070	74.00	29.47	PK	Horizo	PASS
3	9848.00	40.51	43.10	2.590	74.00	30.90	PK	Horizo	PASS
4	4924.00	38.45	31.57	-6.880	54.00	22.43	AV	Horizo	PASS
5	7386.00	35.11	35.04	-0.070	54.00	18.96	AV	Horizo	PASS
6	9848.00	33.35	35.94	2.590	54.00	18.06	AV	Horizo	PASS

Transmit at 2462MHz by 802.11g



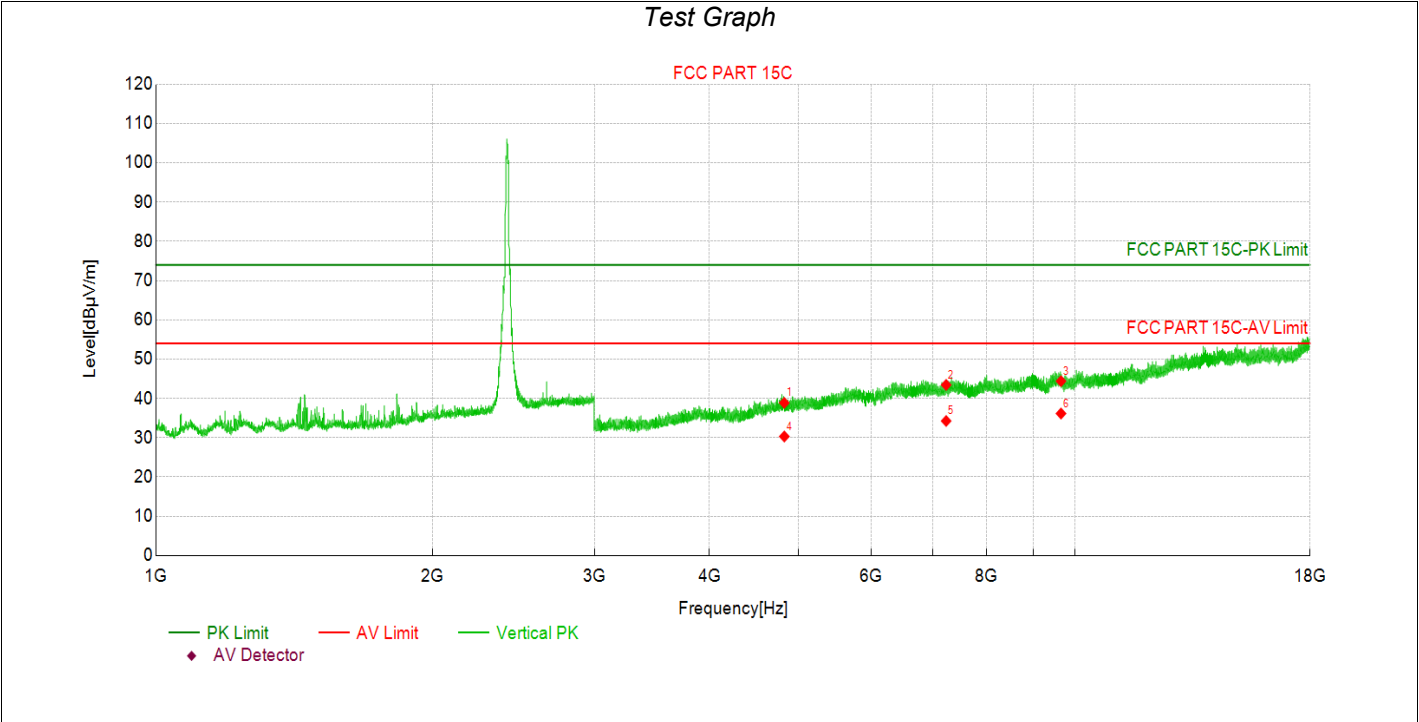
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	46.53	39.65	-6.880	74.00	34.35	PK	Vertic	PASS
2	7386.00	42.59	42.52	-0.070	74.00	31.48	PK	Vertic	PASS
3	9848.00	40.67	43.26	2.590	74.00	30.74	PK	Vertic	PASS
4	4924.00	37.41	30.53	-6.880	54.00	23.47	AV	Vertic	PASS
5	7386.00	34.99	34.92	-0.070	54.00	19.08	AV	Vertic	PASS
6	9848.00	33.47	36.06	2.590	54.00	17.94	AV	Vertic	PASS

Transmit at 2412MHz by 802.11n(20MHz)



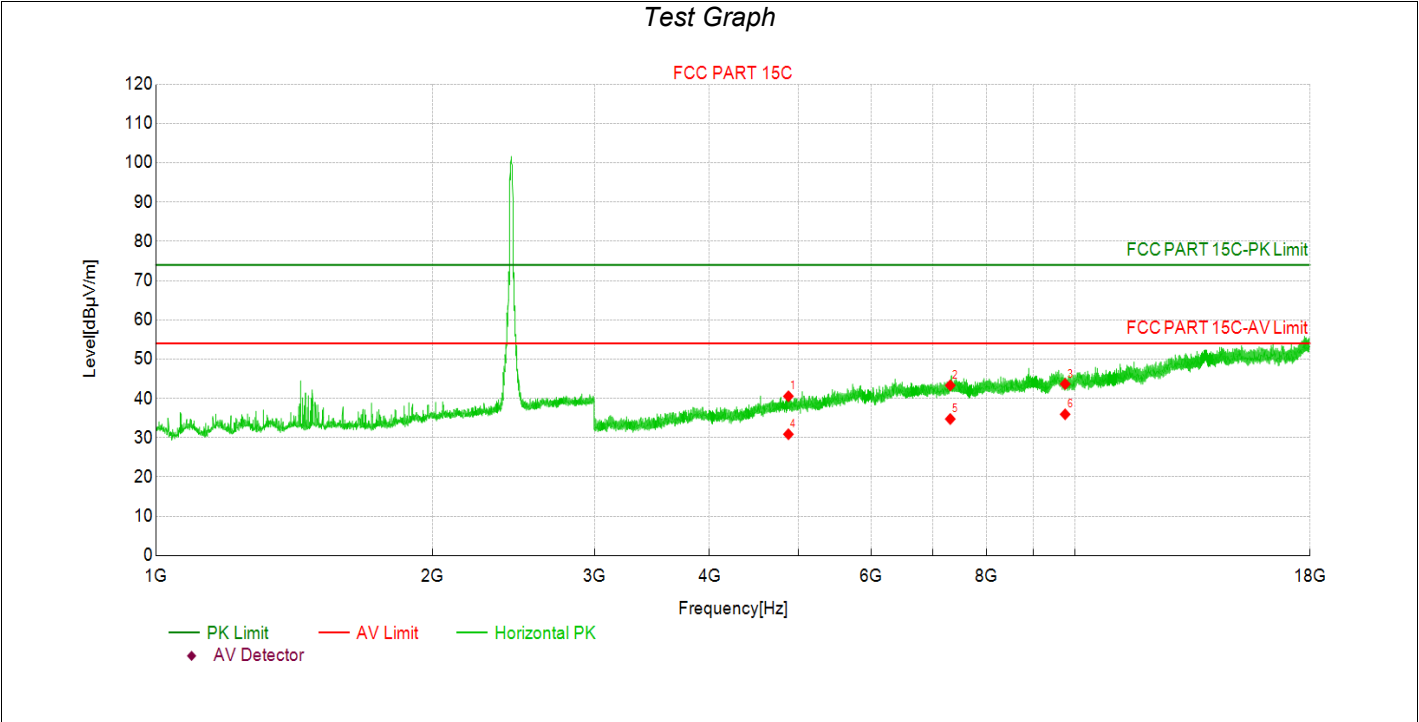
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	47.66	40.60	-7.060	74.00	33.40	PK	Horizo	PASS
2	7236.00	42.46	42.28	-0.180	74.00	31.72	PK	Horizo	PASS
3	9648.00	43.00	45.38	2.380	74.00	28.62	PK	Horizo	PASS
4	4824.00	38.60	31.54	-7.060	54.00	22.46	AV	Horizo	PASS
5	7236.00	34.76	34.58	-0.180	54.00	19.42	AV	Horizo	PASS
6	9648.00	34.06	36.44	2.380	54.00	17.56	AV	Horizo	PASS

Transmit at 2412MHz by 802.11n(20MHz)



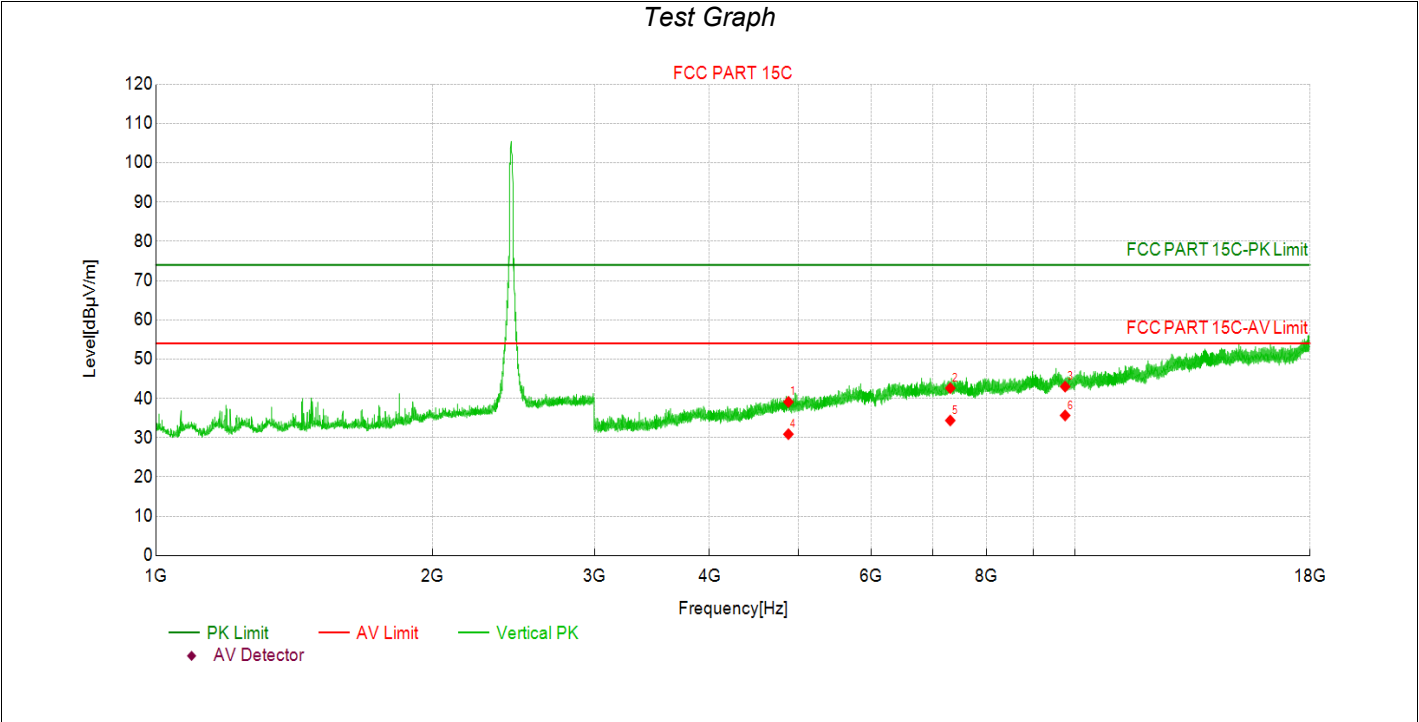
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	45.93	38.87	-7.060	74.00	35.13	PK	Vertic	PASS
2	7236.00	43.63	43.45	-0.180	74.00	30.55	PK	Vertic	PASS
3	9648.00	42.02	44.40	2.380	74.00	29.60	PK	Vertic	PASS
4	4824.00	37.38	30.32	-7.060	54.00	23.68	AV	Vertic	PASS
5	7236.00	34.45	34.27	-0.180	54.00	19.73	AV	Vertic	PASS
6	9648.00	33.78	36.16	2.380	54.00	17.84	AV	Vertic	PASS

Transmit at 2437MHz by 802.11n(20MHz)



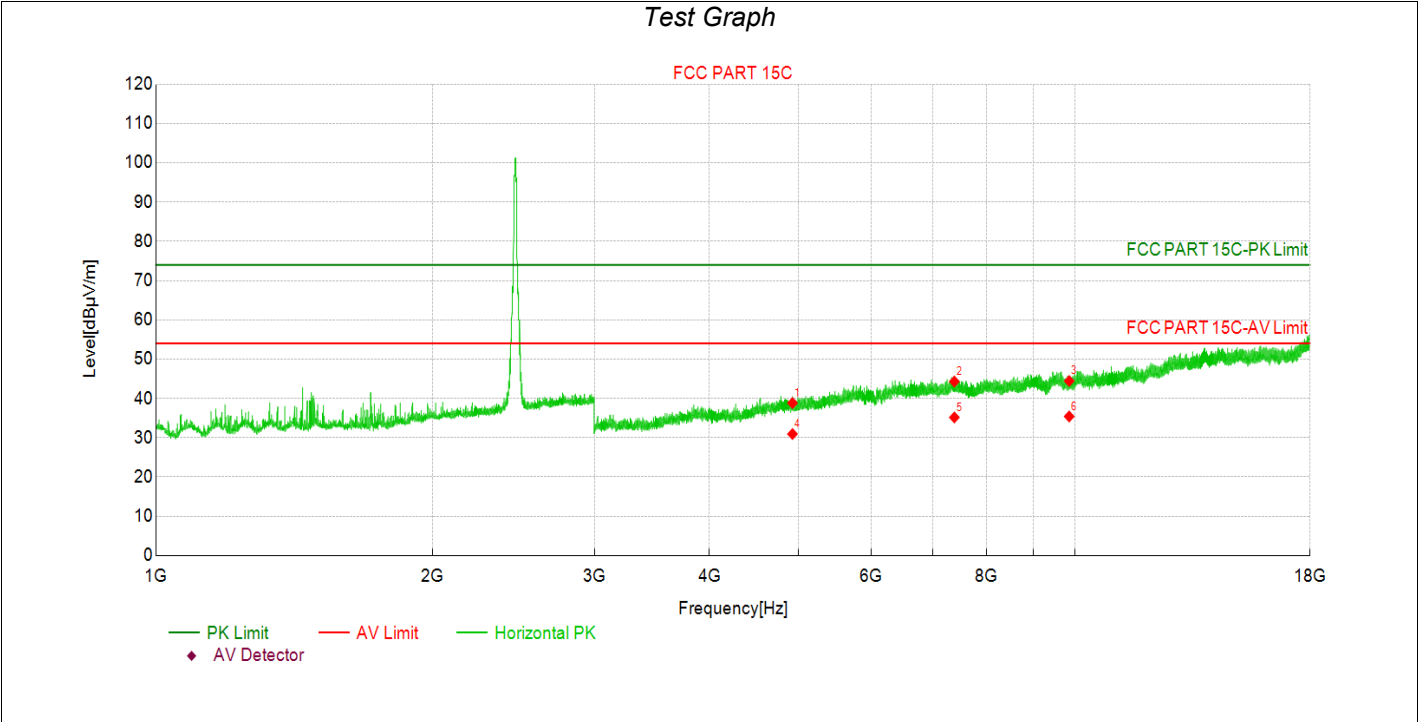
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	47.59	40.55	-7.040	74.00	33.45	PK	Horizo	PASS
2	7311.00	43.51	43.32	-0.190	74.00	30.68	PK	Horizo	PASS
3	9748.00	41.35	43.69	2.340	74.00	30.31	PK	Horizo	PASS
4	4874.00	37.93	30.89	-7.040	54.00	23.11	AV	Horizo	PASS
5	7311.00	34.96	34.77	-0.190	54.00	19.23	AV	Horizo	PASS
6	9748.00	33.63	35.97	2.340	54.00	18.03	AV	Horizo	PASS

Transmit at 2437MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	46.16	39.12	-7.040	74.00	34.88	PK	Vertic	PASS
2	7311.00	42.80	42.61	-0.190	74.00	31.39	PK	Vertic	PASS
3	9748.00	40.66	43.00	2.340	74.00	31.00	PK	Vertic	PASS
4	4874.00	37.94	30.90	-7.040	54.00	23.10	AV	Vertic	PASS
5	7311.00	34.57	34.38	-0.190	54.00	19.62	AV	Vertic	PASS
6	9748.00	33.33	35.67	2.340	54.00	18.33	AV	Vertic	PASS

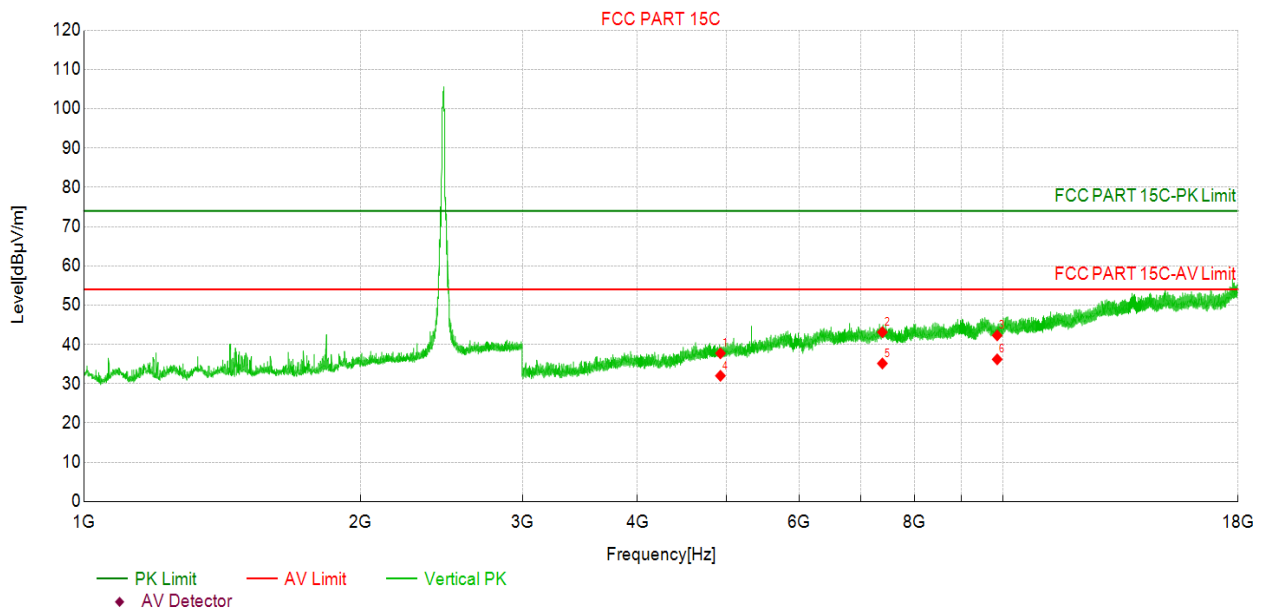
Transmit at 2462MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	45.71	38.83	-6.880	74.00	35.17	PK	Horizo	PASS
2	7386.00	44.38	44.31	-0.070	74.00	29.69	PK	Horizo	PASS
3	9848.00	41.86	44.45	2.590	74.00	29.55	PK	Horizo	PASS
4	4924.00	37.83	30.95	-6.880	54.00	23.05	AV	Horizo	PASS
5	7386.00	35.24	35.17	-0.070	54.00	18.83	AV	Horizo	PASS
6	9848.00	32.83	35.42	2.590	54.00	18.58	AV	Horizo	PASS

Transmit at 2462MHz by 802.11n(20MHz)

Test Graph



Data List

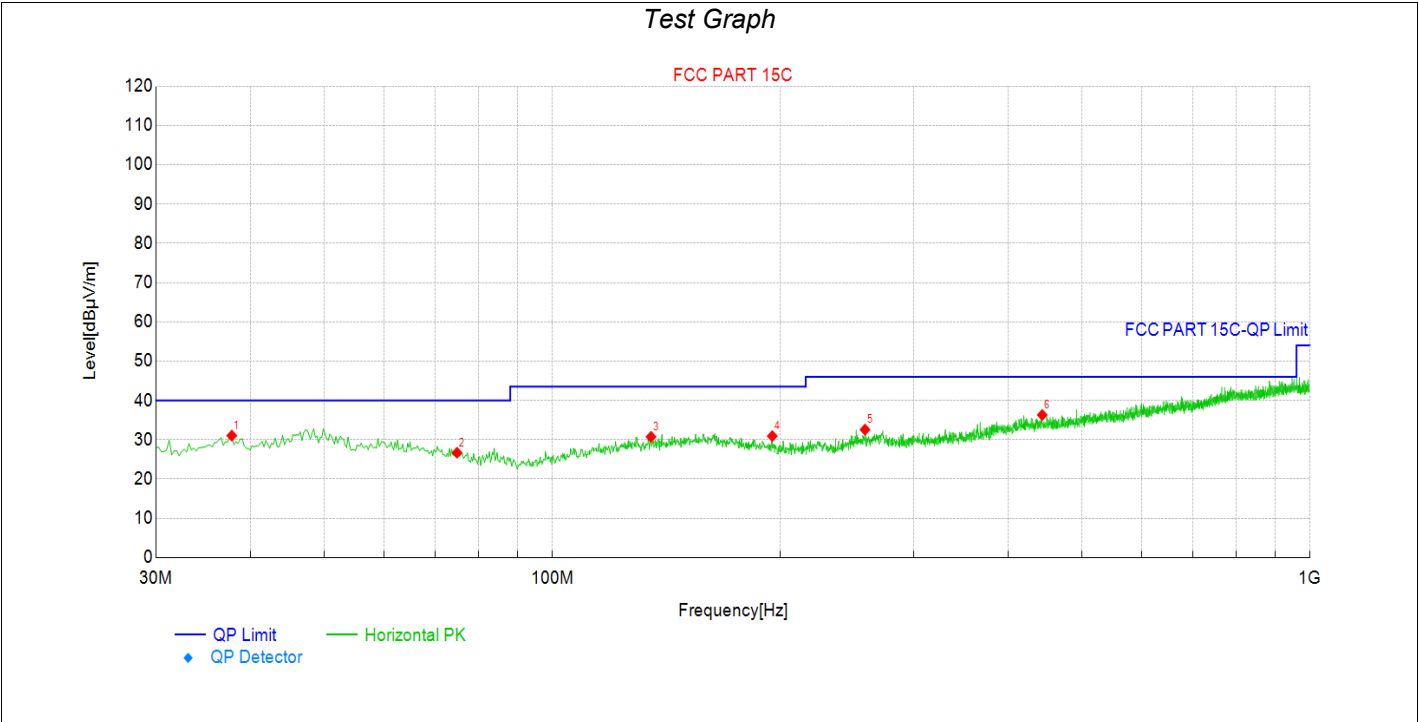
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	44.63	37.75	-6.880	74.00	36.25	PK	Vertic	PASS
2	7386.00	43.21	43.14	-0.070	74.00	30.86	PK	Vertic	PASS
3	9848.00	39.70	42.29	2.590	74.00	31.71	PK	Vertic	PASS
4	4924.00	38.90	32.02	-6.880	54.00	21.98	AV	Vertic	PASS
5	7386.00	35.23	35.16	-0.070	54.00	18.84	AV	Vertic	PASS
6	9848.00	33.61	36.20	2.590	54.00	17.80	AV	Vertic	PASS

Note:

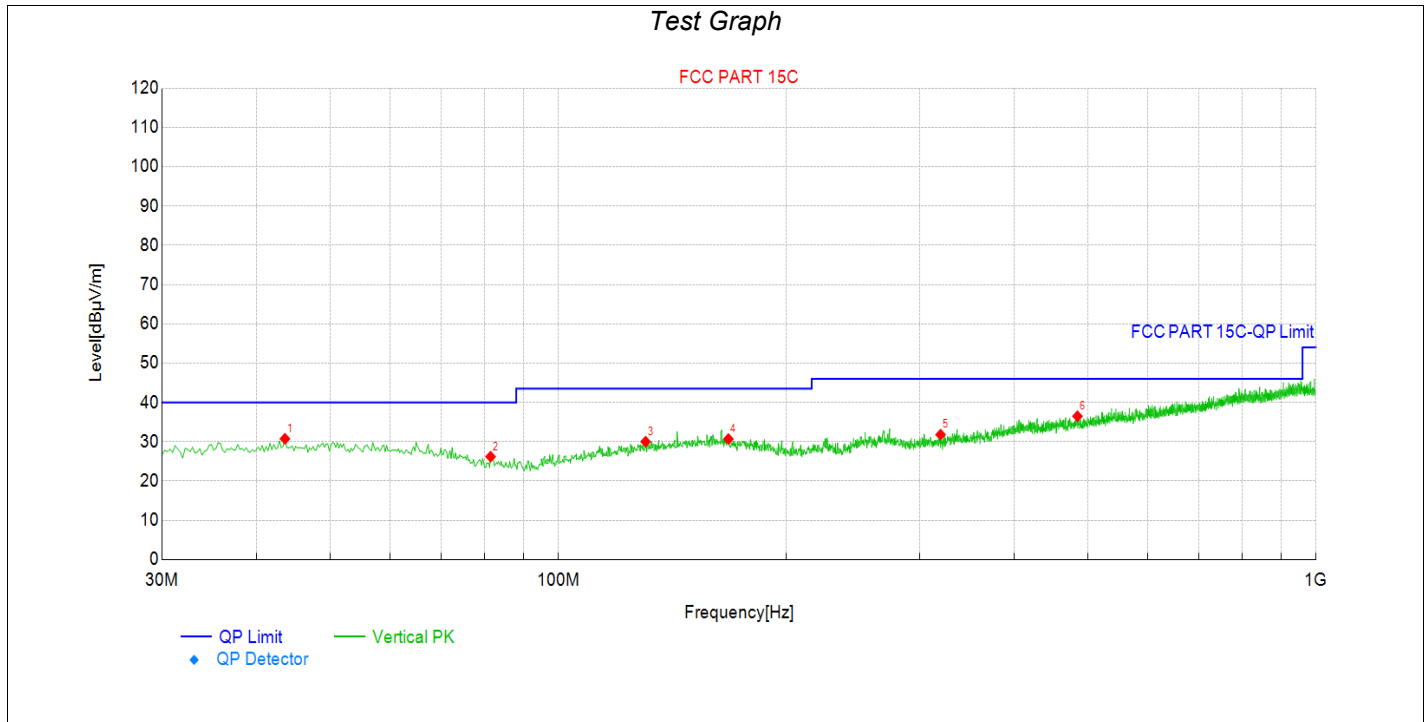
- 1.Level=Reading+Factor
2. Margin=Limit-Level
3. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
4. The test frequency range, 18GHz~26GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.

The worst case of Radiated Emission below 1GHz:

Transmit at 2412MHz by 802.11b



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	37.76	16.68	31.05	14.370	40.00	8.95	PK	Horizo	PASS
2	74.86	14.73	26.70	11.970	40.00	13.30	PK	Horizo	PASS
3	135.00	16.45	30.75	14.300	43.50	12.75	PK	Horizo	PASS
4	195.14	18.23	30.93	12.700	43.50	12.57	PK	Horizo	PASS
5	258.68	17.98	32.58	14.600	46.00	13.42	PK	Horizo	PASS
6	443.22	16.12	36.32	20.200	46.00	9.68	PK	Horizo	PASS

Transmit at 2412MHz by 802.11b**Data List**

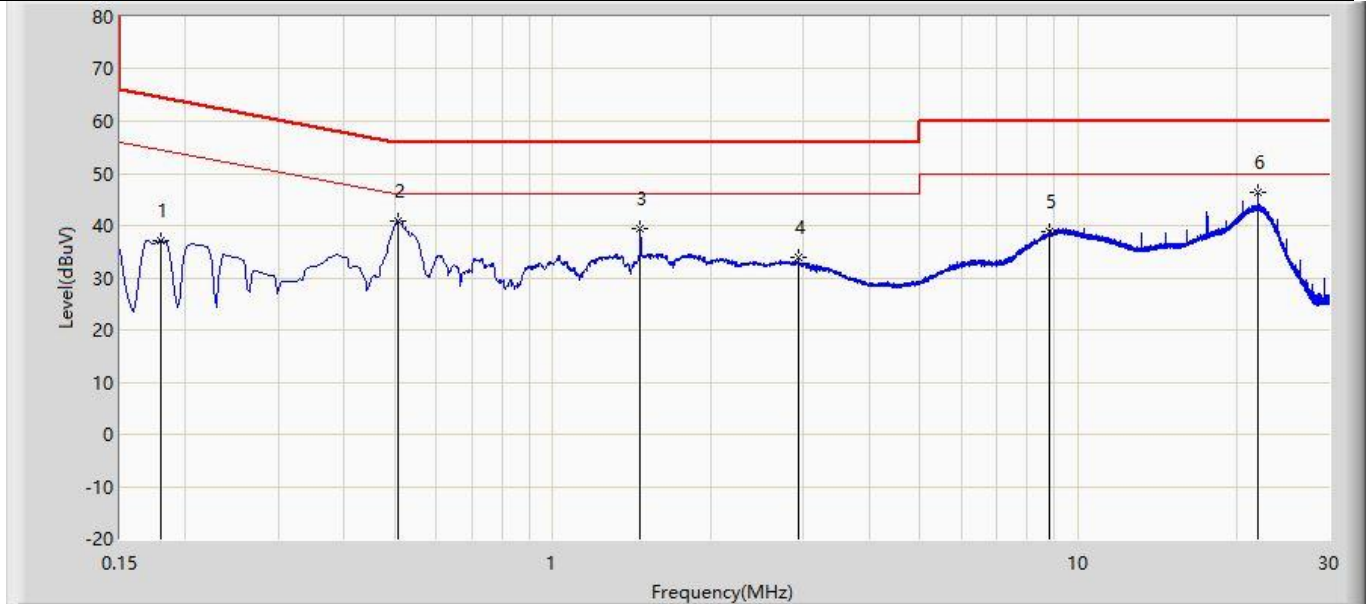
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	43.58	16.14	30.75	14.610	40.00	9.25	PK	Vertic	PASS
2	81.41	15.79	26.20	10.410	40.00	13.80	PK	Vertic	PASS
3	130.40	15.92	30.01	14.090	43.50	13.49	PK	Vertic	PASS
4	167.74	15.82	30.69	14.870	43.50	12.81	PK	Vertic	PASS
5	319.55	15.19	31.81	16.620	46.00	14.19	PK	Vertic	PASS
6	484.45	15.42	36.50	21.080	46.00	9.50	PK	Vertic	PASS

Note:

1. All Readings below 1GHz are PK, PK as an alternative to CISPR quasi-peak measurements or average measurements.
2. Level=Reading+Factor.

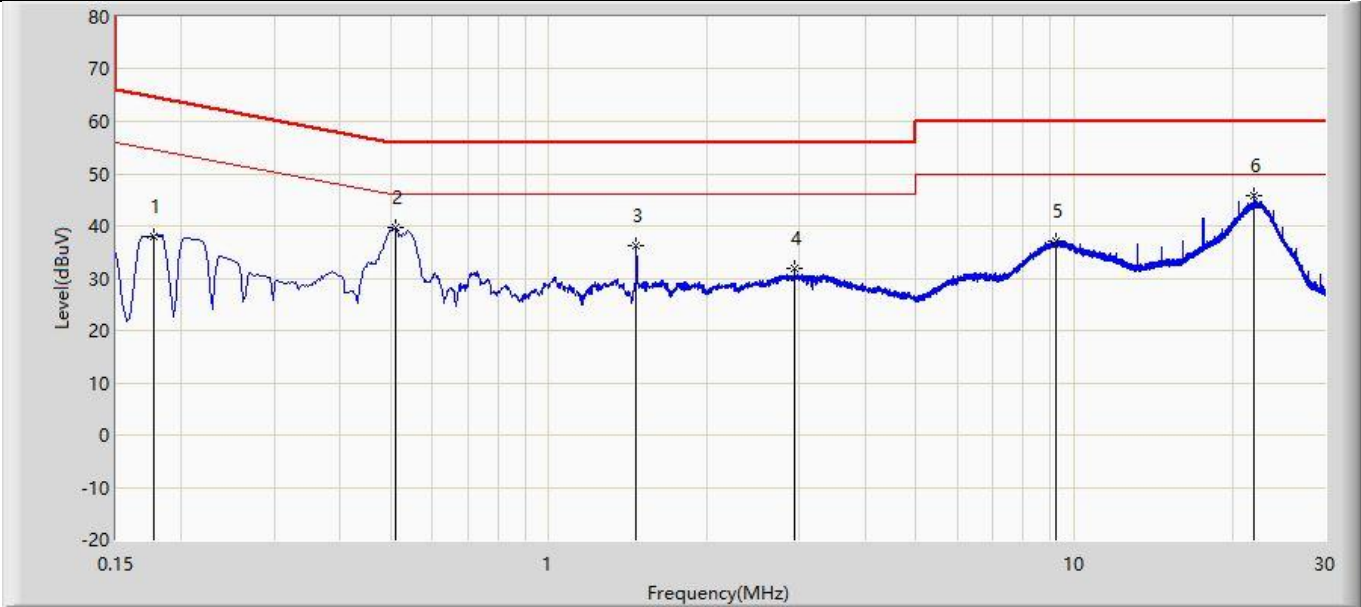
Appendix D: AC Power Line Conducted Emission

Profile: 2640209R	Page No.: 3
Limit: FCC 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: DAS Gripper	Power: AC 120V/60Hz
Note: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.179	37.019	27.358	-27.513	64.532	9.661	QP
2		0.506	40.761	31.061	-15.239	56.000	9.701	QP
3		1.466	39.292	29.562	-16.708	56.000	9.731	QP
4		2.933	34.045	24.251	-21.955	56.000	9.794	QP
5		8.795	38.868	28.930	-21.132	60.000	9.938	QP
6	*	21.997	46.428	35.830	-13.572	60.000	10.598	QP

Profile: 2640209R	Page No.: 4
Limit: FCC 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: DAS Gripper	Power: AC 120V/60Hz
Note: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.177	38.047	28.377	-26.578	64.625	9.670	QP
2		0.510	39.836	30.238	-16.164	56.000	9.598	QP
3		1.466	36.254	26.567	-19.746	56.000	9.687	QP
4		2.935	31.910	22.167	-24.090	56.000	9.744	QP
5		9.231	37.011	27.030	-22.989	60.000	9.981	QP
6	*	22.000	45.869	35.289	-14.131	60.000	10.580	QP

_____ The End _____