



Test report No:
2640417R.704B

FCC TEST REPORT

Product Name	Barcode Scanner
Model and /or type reference	8680ic
Trademark	Honeywell
FCC ID	HD5-8680IC
Applicant's name / address	HONEYWELL INTERNATIONAL INC 9680 OLD BAILES RD FORT MILL SC 29707.USA
Test method requested, standard	47 CFR FCC Part 15 (Section 15.407) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Reyn Chen / Supervisor 
Approved by (name / position & signature)	Well Wei / Manager 
Date of issue	2026-06-05
Report Version	V1.0
Report template No	Template_FCC Part 15E-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, 1st floor, No.7 building, Smart Science Park Phase 5, No. 8213, Fanhua Avenue, Economic and Technological Development District, Hefei, Anhui Province, 230091, China
Date(receive sample)	Apr. 16, 2026
Date (start test)	Apr. 17, 2026
Date (finish test)	May. 08, 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.
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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
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured



DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2640417R.704B	V1.0	Initial issue of report.	2026-06-05

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 15.407).
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
Wideband Radio Communication Tester	R&S	CMW 500	163864	2025.06.01	2026.05.31	V 4.0.60	N/A
Signal Generator	R&S	SMR 20	100654	2025.05.22	2026.05.21	N/A	N/A
MAX Signal Analyzer	Keysight	N9010A	MY55370495	2025.09.14	2026.09.13	A.14.03	N/A
Signal analyzer	R&S	FSV	101920	2025.05.12	2026.05.11	V3.6	N/A
Signal analyzer	R&S	FSV	101920	2026.05.07	2027.05.06	V3.6	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.06.16	2026.06.15	N/A	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2025.06.12	2026.06.11	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2025.06.12	2026.06.11	N/A	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22
Cable	Yongyi	SFT205-SMSM-1M	512140-0013	2025.11.15	2026.11.14	N/A	N/A
Temperature/Humidity Meter	RITERS	RTS-8S	022	2025.08.25	2026.8.24	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	2025.05.21	2026.05.20	N/A	N/A
Bilog Antenna	TESEQ	CBL6112D	57867	2026.05.11	2027.05.10	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	2025.05.19	2026.05.18	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
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

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

AC Power Line Conducted Emission / SR104

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Firmware Version	Software Version
Shielded room	Maorui	9m*4m*4m	SR104	2023.08.23	2026.08.22	N/A	N/A
V-network	R&S	ENV216	101516	2025.05.19	2026.05.18	N/A	N/A
V-network	R&S	ENV216	101516	2026.05.10	2027.05.09	N/A	N/A
EMI test receiver	R&S	ESR3	103140	2025.05.18	2026.05.17	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:	Barcode Scanner		
Model Name:	8680ic		
Trademark.:	Honeywell		
FCC ID:	HD5-8680IC		
Power Supply:	Input: 5Vdc 1A, Battery:3.60Vdc		
Hardware Version:	N/A		
Software Version:	N/A		
Manufacturer:	HONEYWELL INTERNATIONAL INC		
Manufacturer Address:	9680 OLD BAILES RD FORT MILL SC 29707.USA		
Test Matrix/ IMEI:	RF Conducted	#1	
	RSE	#2	
Wireless specification:	802.11a/n/ac/ax		
Operating frequency range(s):	5.2GHz: 5150 ~ 5250MHz 5.3GHz: 5250 ~ 5350MHz 5.6GHz: 5470 ~ 5725MHz 5.8GHz: 5725 ~ 5850MHz		
Type of Modulation:	802.11a:OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n:OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac:OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax:OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)		
Smart System:	☒	SISO	
	☐	MIMO-CDD	
	☐	MIMO-Beamforming	
DFS Function:	☐	Master device	
	☐	Slave with radar detection	
	☒	Slave without radar detection	
TPC Function:	☒	Support	☐ Not Support
Antenna Type:	Internal Antenna		
Antenna Gain:	2.70dBi		

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

802.11a/n/ac/ax(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5550 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	144	5720 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11n/ac/ax(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	142	5710 MHz	151	5755 MHz	159	5795 MHz
802.11ac/ax(80MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530MHz	122	5610 MHz
138	5690 MHz	155	5775 MHz	N/A	N/A	N/A	N/A

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		
Gen7WiFiSDKInstaller.	v2.1.0.10		

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
802.11a	6Mbps
802.11n 20	MCS0(6.5 Mbps)
802.11n 40	MCS0(13.5 Mbps)
802.11ac 20	MCS0(6.5 Mbps)
802.11ac 40	MCS0(13.5 Mbps)
802.11ac 80	MCS0(29.3 Mbps)
802.11ax 20	MCS0(7.3 Mbps)
802.11ax 40	MCS0(14.6 Mbps)
802.11ax 80	MCS0(30.6 Mbps)

Note: The customer states that 802.11ax mode only supports Full RU.

2.3 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting
802.11a	36	5180	16
	44	5220	16
	48	5240	16
	52	5260	16
	60	5300	16
	64	5320	16
	100	5500	16
	116	5580	16
	140	5700	17
	144	5720	17
	149	5745	17
	157	5785	17
	165	5825	17
802.11n(20MHz)	36	5180	17
	44	5220	17
	48	5240	17
	52	5260	17
	60	5300	16
	64	5320	16
	100	5500	16
	116	5580	16
	140	5700	16
	144	5720	16
	149	5745	16
	157	5785	16
	165	5825	16
802.11n(40MHz)	38	5190	13
	46	5230	13
	54	5270	13
	62	5310	13
	102	5510	13
	118	5590	13
	134	5670	16
	142	5710	16
	151	5755	16
	159	5795	16
802.11ac(20MHz)	36	5180	17
	44	5220	17
	48	5240	17
	52	5260	17
	60	5300	18
	64	5320	18
	100	5500	16
	116	5580	16
	140	5700	16
	144	5720	16
	149	5745	16

	157	5785	16
	165	5825	16
802.11ac(40MHz)	38	5190	12
	46	5230	12
	54	5270	13
	62	5310	13
	102	5510	13
	118	5590	13
	134	5670	14
	142	5710	14
	151	5755	14
	159	5795	14
802.11ac(80MHz)	42	5210	12
	58	5290	13
	106	5530	13
	122	5610	13
	138	5690	13
	155	5775	13
802.11ax(20MHz)	36	5180	15
	44	5220	15
	48	5240	15
	52	5260	15
	60	5300	15
	64	5320	17
	100	5500	17
	116	5580	15
	140	5700	15
	144	5720	15
	149	5745	15
	157	5785	15
	165	5825	15
802.11ax(40MHz)	38	5190	12
	46	5230	12
	54	5270	13
	62	5310	13
	102	5510	13
	118	5590	13
	134	5670	17
	142	5710	17
	151	5755	17
	159	5795	16
802.11ax(80MHz)	42	5210	12
	58	5290	12
	106	5530	12
	122	5610	12
	138	5690	12
	155	5775	12

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
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
FCC CFR Title 47 Part 15 Subpart E	2024	FCC CFR Title 47 Part 15 Subpart E
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	2017	This document provides guidance for determining emissions compliance of U-NII devices under Part 15, Subpart E of the FCC rules.

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 case of FCC	Basic standard(s)	Verdict	Remark
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: Section 15.207	PASS	Test data please refer to Appendix A
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: Section 15.209	PASS	Test data please refer to Appendix B
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	PASS	Test data please refer to Appendix C
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e)	PASS	Test data please refer to Appendix D
Duty cycle	ANSI C63.10:2020	PASS	Test data please refer to Appendix E
Power Output	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	PASS	Test data please refer to Appendix F
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	PASS	Test data please refer to Appendix G
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: Section 15.205, 15.407(b)	PASS	Test data please refer to Appendix H
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(g)	N/A(See Note1)	N/A(See Note1)
Dynamic Frequency Selection (DFS)	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(h)	PASS	Test report please refer to 2640417R.705B
Antenna Requirement	FCC 15.203	PASS	---
Note1: Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual. Note2: 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 AC Power Line Conducted Emission

VERDICT: PASS

4.1.1 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

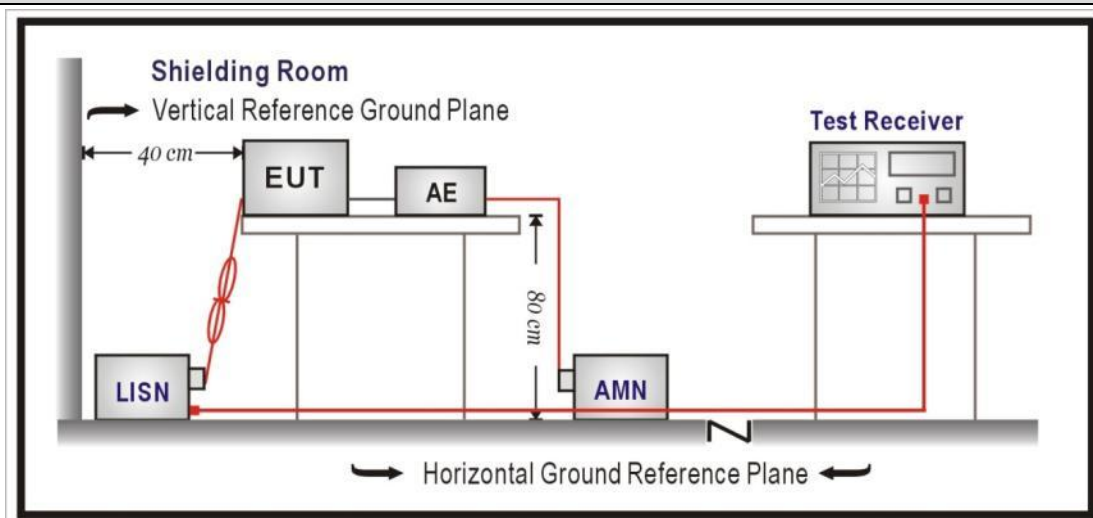
¹⁾ At the transition frequency, the lower limit applies.

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.

4.1.2 Test Setup



4.1.3 Test Procedure

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

4.2 Radiated Emissions**VERDICT: PASS****4.2.1 Limit****Standard**

FCC Part 15 Subpart C Paragraph 15.205,

Restricted Bands of operation

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	
13.36 – 13.41			

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)

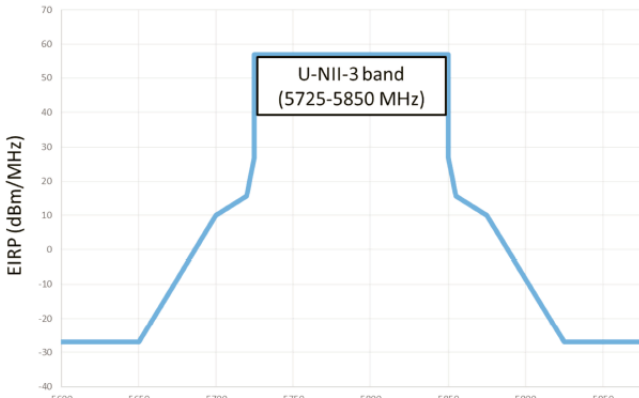
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 ^(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 ^(Note 1)
1.705 - 30	30	29.5	30 ^(Note 1)
30 - 88	100	40	3 ^(Note 2)
88 - 216	150	43.5	3 ^(Note 2)
216 - 960	200	46	3 ^(Note 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).

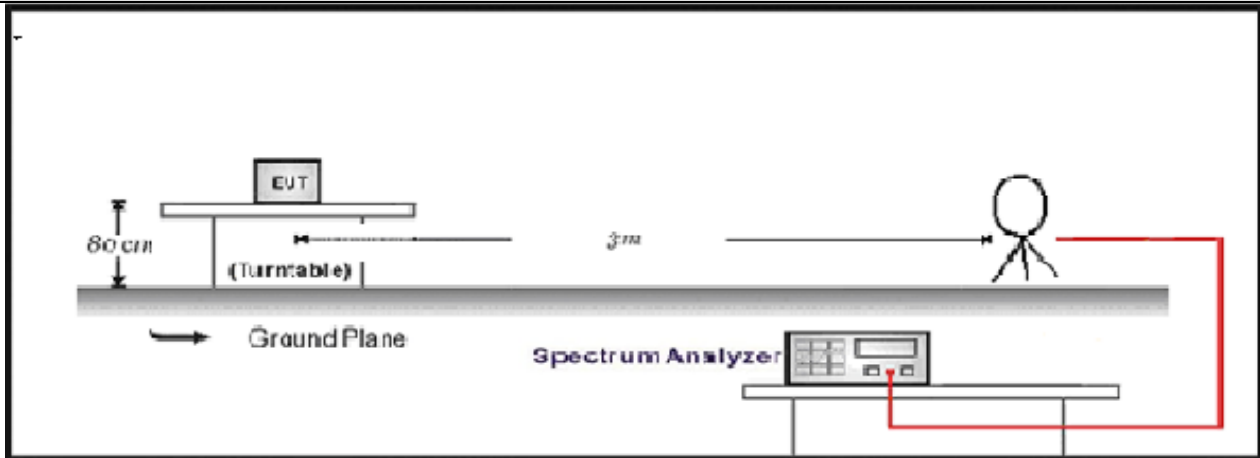
FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit),

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3

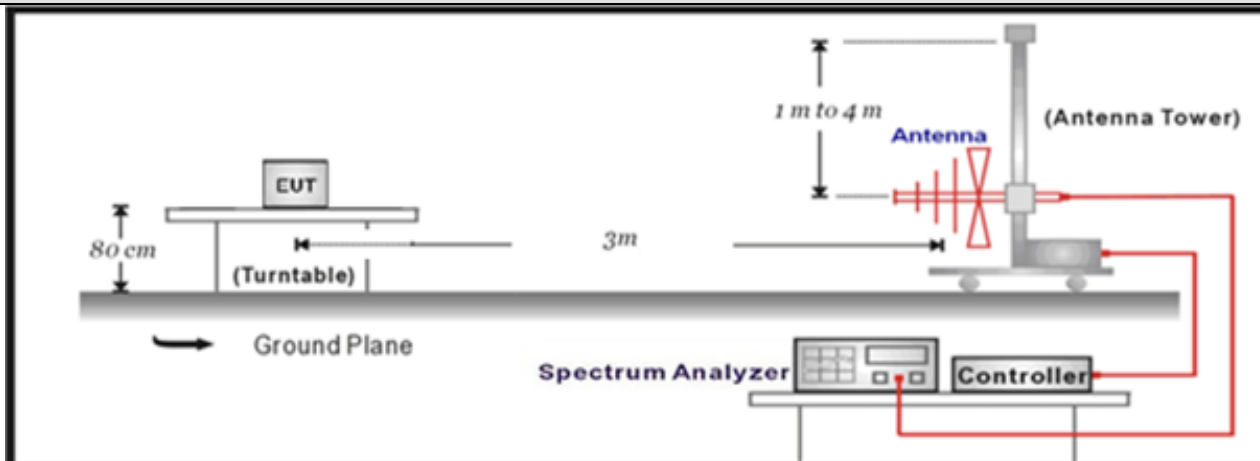
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5850	 U-NII-3 band (5725-5850 MHz)

4.2.2 Test Setup

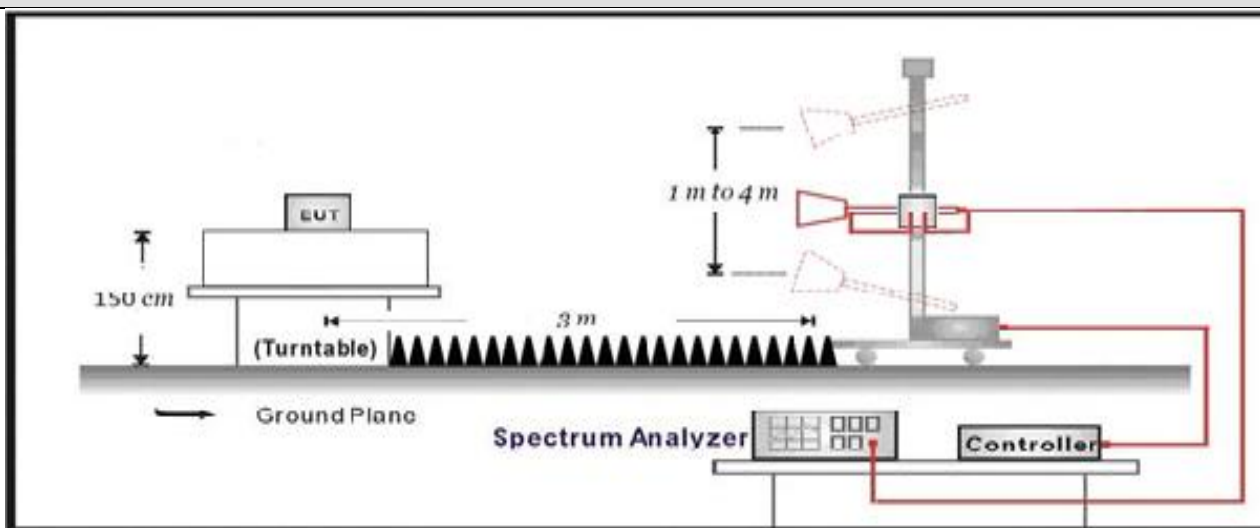
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.2.3 Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10	12.7.2	Emissions in restricted frequency bands
☒	ANSI C63.10	12.7.5	Radiated emission measurements
☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
☒	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 Emission bandwidth

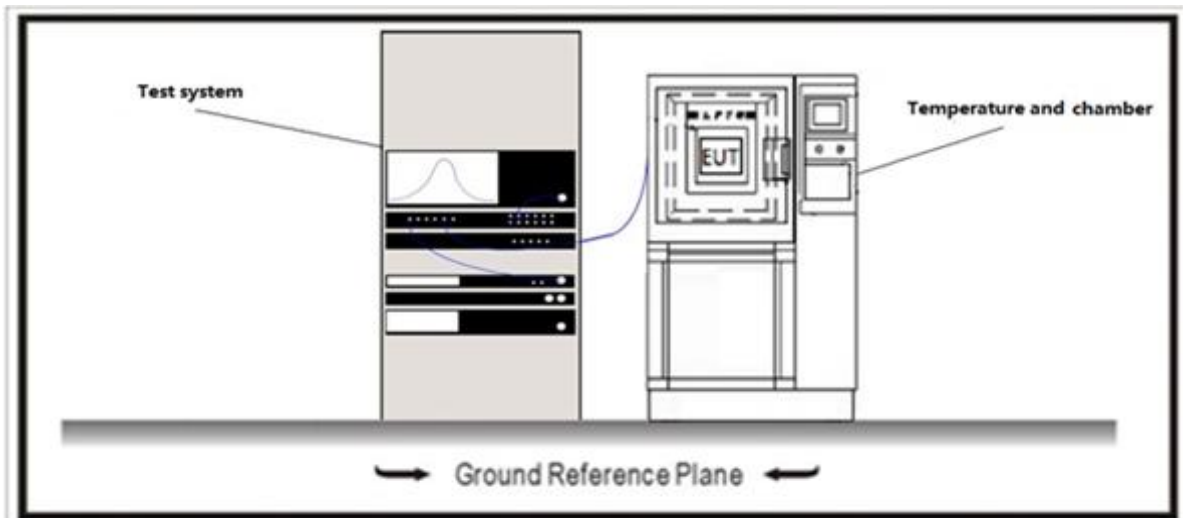
VERDICT: PASS

4.3.1 Limit

Standard FCC CFR Title 47 Part 15 Subpart E: Section 15.407.

Whin the Frequency band.

4.3.2 Test Setup



4.3.3 Test Procedure

Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Emission bandwidth and occupied bandwidth
☐	ANSI C63.10	12.5.1	Emission bandwidth for the band 5.725 GHz to 5.85 GHz
☒	ANSI C63.10	12.5.2	Emission bandwidth for all other bands
☒	ANSI C63.10	12.5.3	Occupied bandwidth
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
☒	FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
☐	FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v02r01	D	99 Percent Occupied Bandwidth

4.4 6dB bandwidth

VERDICT: PASS

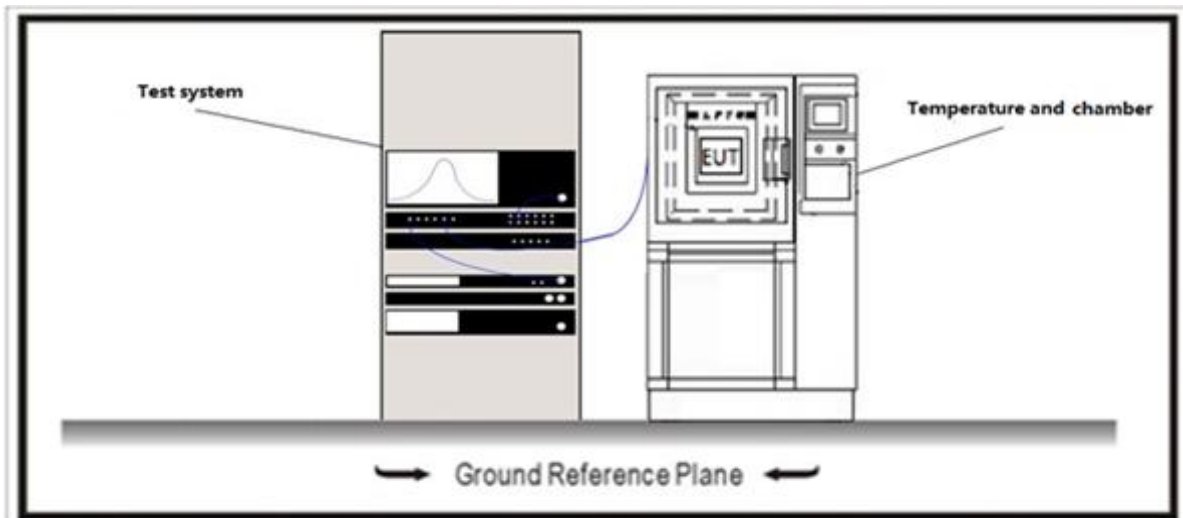
4.4.1 Limit

Standard

FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e).

 6dB Bandwith $\geq 500\text{KHz}$

4.4.2 Test Setup



4.4.3 Test Procedure

Test Method

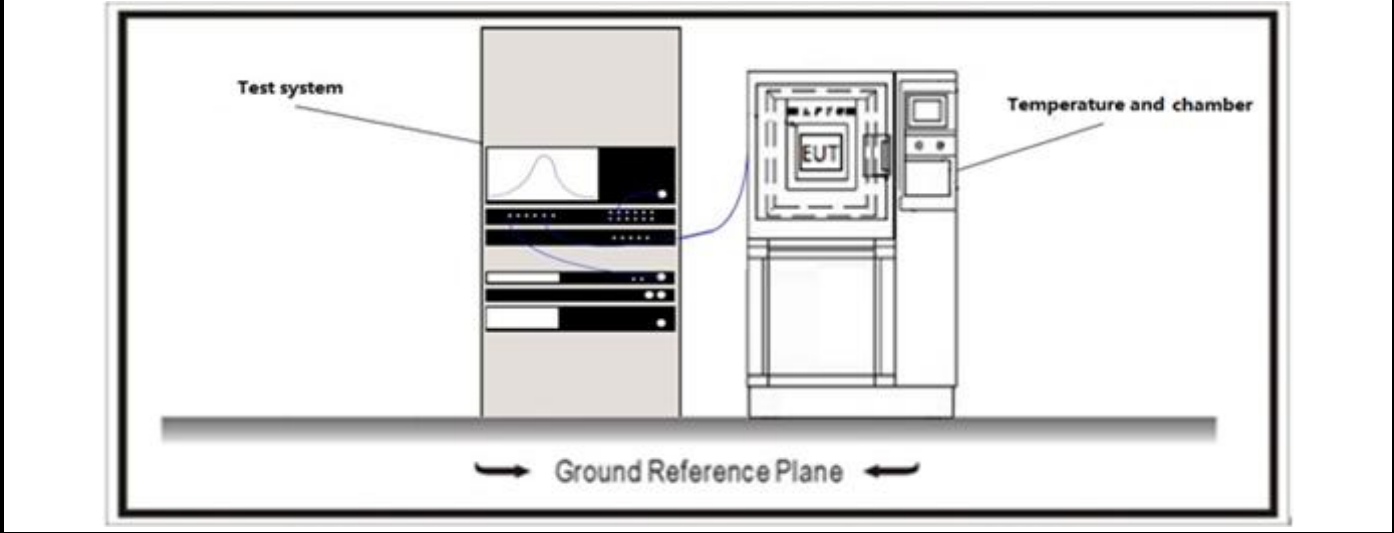
	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Emission bandwidth and occupied bandwidth
☒	ANSI C63.10	12.5.1	Emission bandwidth for the band 5.725 GHz to 5.85 GHz
☐	ANSI C63.10	12.5.2	Emission bandwidth for all other bands
☐	ANSI C63.10	12.5.3	Occupied bandwidth
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
☐	FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
☒	FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☐	FCC KDB 789033 D02v02r01	D	99 Percent Occupied Bandwidth

4.5 Duty cycle	VERDICT: PASS
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4.5.1 Limit

N/A

4.5.2 Test Setup



4.5.3 Test Procedure

References Rule		Chapter	Description
☒	ANSI C63.10	12.2	Duty cycle (D), transmission duration (T), and maximum power control level

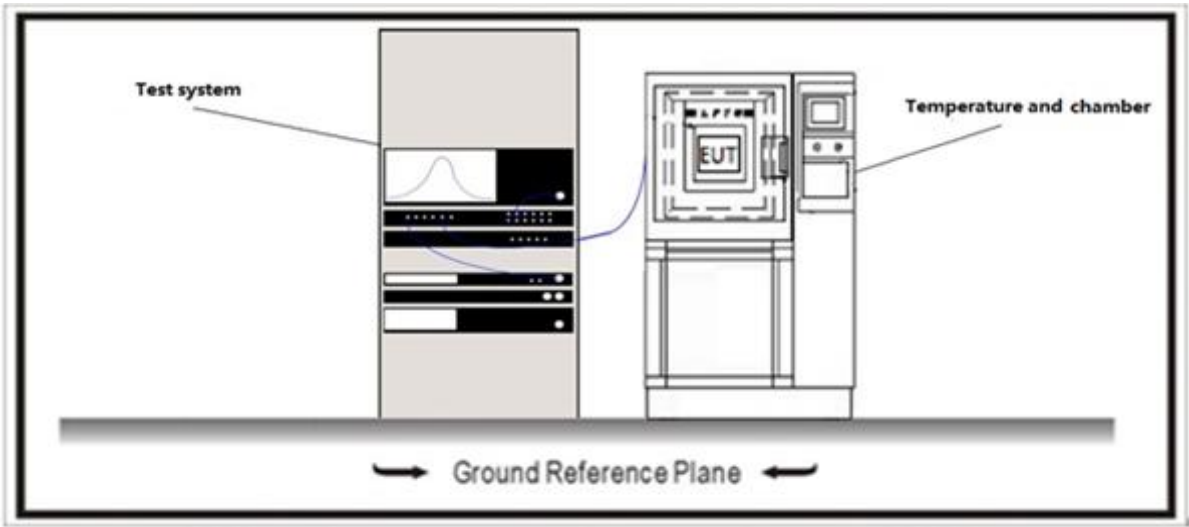
4.6 Power Output**VERDICT: PASS****4.6.1 Limit**

Standard		FCC Part 15 Subpart E Paragraph 15.407 (a)
☒	For the band 5.15-5.25 GHz	
☐	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$ and $\leq 125\text{mW}$ at any angle above 30 degrees	
☐	Indoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$	
☐	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 23)$	
☒	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 24 - (G_{TX} - 6)$	
☒	For the band 5.25-5.35 GHz:	
☒	The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$	
☒	For the 5.47-5.725 GHz:	
☒	The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$	
☒	For the band 5.725-5.85 GHz:	
☒	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$	
☐	Point-to-point systems (P2P): the maximum conducted output power (P_{out}) shall not exceed the lesser of 1 W	

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum conducted output power .

4.6.2 Test Setup



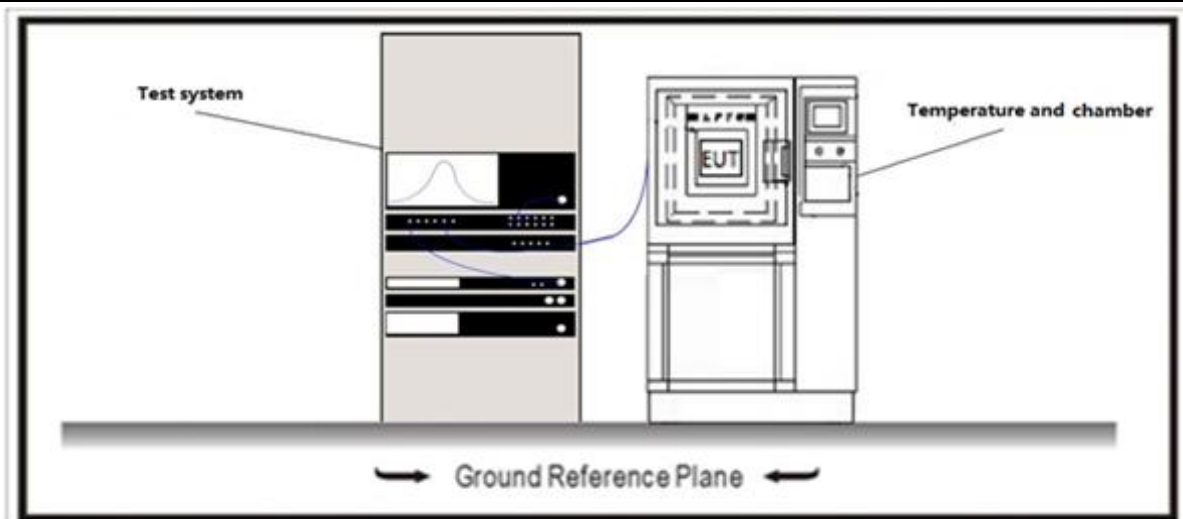
4.6.3 Test Procedure

References Rule		Chapter	Description
☒	ANSI C63.10	12.4	Maximum conducted output power
☐	ANSI C63.10	12.4.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		12.4.2.2	Method SA-1
		12.4.2.3	Method SA-1A (alternative)
		12.4.2.4	Method SA-2
		12.4.2.5	Method SA-2A (alternative)
		12.4.2.6	Method SA-3
		12.4.2.7	Method SA-3A (alternative)
	☒ ANSI C63.10	12.4.3	Maximum conducted output power using a power meter
	☐ ANSI C63.10	12.4.3.1	Method PM
	☒ ANSI C63.10	12.4.3.2	Method PM-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 Maximum Power Spectral Density**VERDICT: PASS****4.7.1 Limit**

Standard		FCC Part 15 Subpart E Paragraph 15.407 (a)
☒	For the band 5.15-5.25 GHz	
☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$	
☐	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$	
☐	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 23)$	
☒	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$	
☒	For the 5.25-5.35 GHz:	
☒	The maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$	
☒	For the 5.47-5.725 GHz:	
☒	The maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$	
☒	For the band 5.725-5.85 GHz:	
☒	The maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$	

Note 1: G_{TX} directional gain of transmitting antennas.Note 2: P_{out} is maximum power spectral density.**4.7.2 Test Setup**

4.7.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	12.6	Peak power spectral density
☒	FCC KDB 789033 D02v02r01	F	Maximum Power Spectral Density (PSD)

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 Radiated Emission Band Edge**VERDICT: PASS****4.8.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.205.	
Restricted Bands of operation			
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	
13.36 – 13.41			

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit).

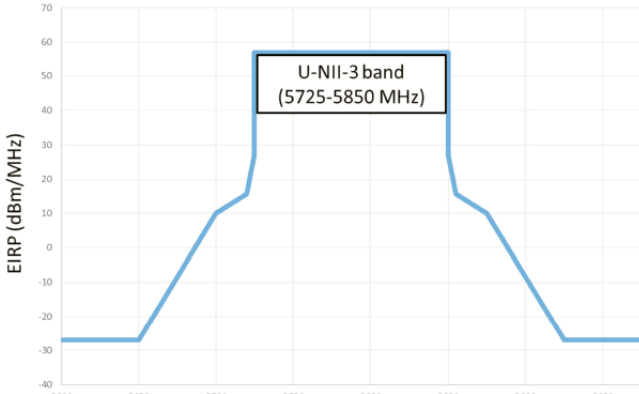
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 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).

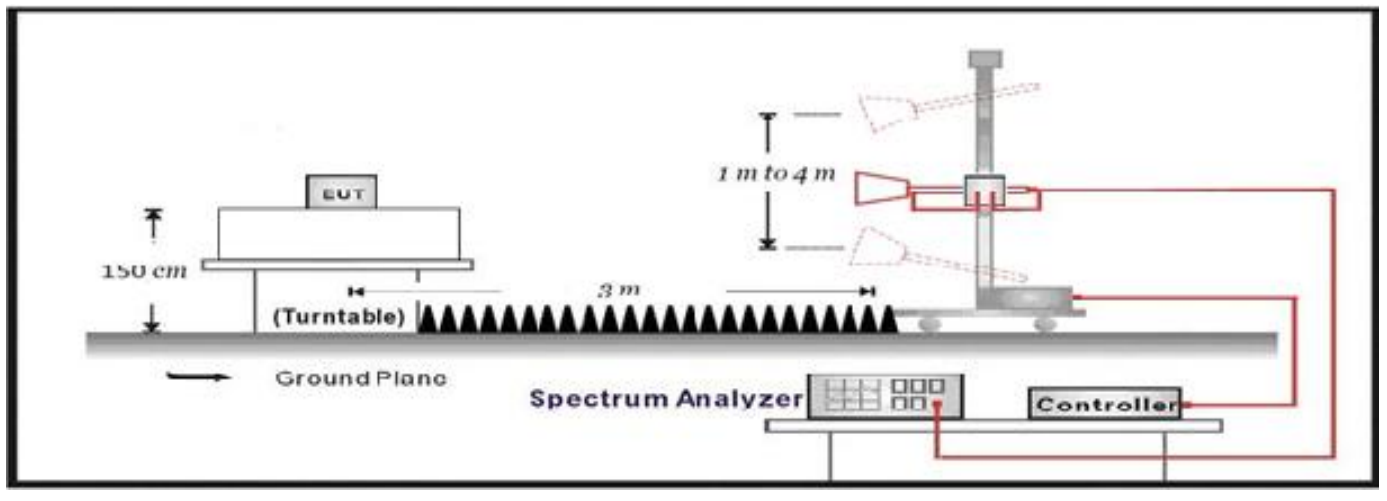
FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit).

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5850	 U-NII-3 band (5725-5850 MHz)

4.8.2 Test Setup

Above 1GHz Test Setup:



4.8.3 Test Procedure

	References Rule	Chapter	Description
☐	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10	12.7.2	Emissions in restricted frequency bands
☐	ANSI C63.10	12.7.5	Radiated emission measurements
☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
☐	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
☐	FCC KDB 789033 D02v02r01	G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v02r01	G.1	Unwanted Emissions in the Restricted Bands
☐	FCC KDB 789033 D02v02r01	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
☐	FCC KDB 789033 D02v02r01	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz

	☐	FCC KDB 789033 D02v02r01	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.6.c	Method AD (Average detection)—primary method
	☐	FCC KDB 789033 D02v02r01	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

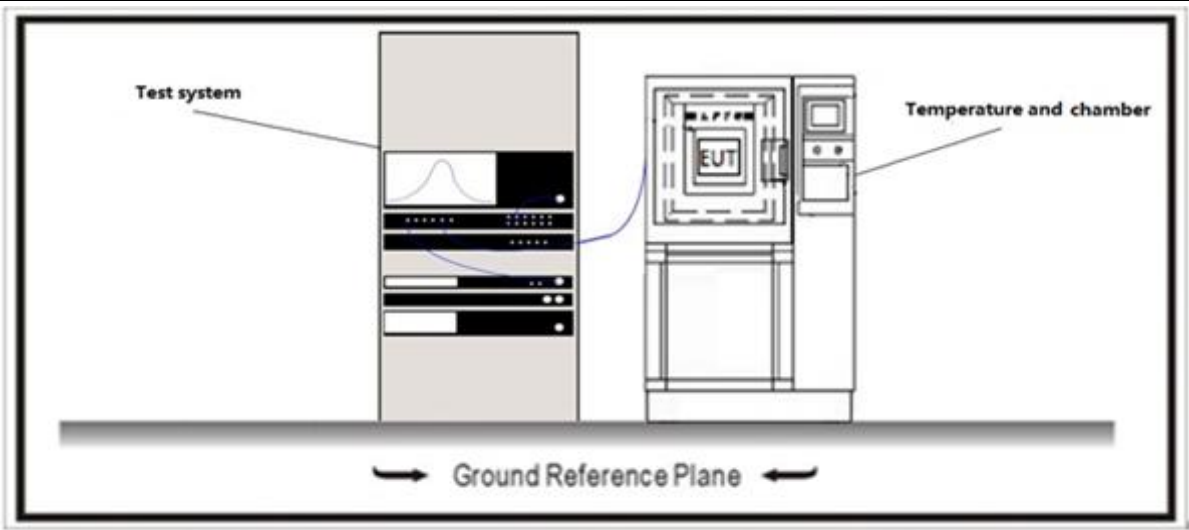
4.9 Frequency Stability

VERDICT: N/A

4.9.1 Limit:

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user’s manual.
The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

4.9.2 Test Setup



4.9.3 Test Procedure

	References Rule		Chapter	Description
☐	ANSI C63.10		6.8	Frequency stability tests
	☐	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
	☐	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

4.10 Antenna Requirement**VERDICT: PASS****4.10.1 Limit:**

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.

4.10.2 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.

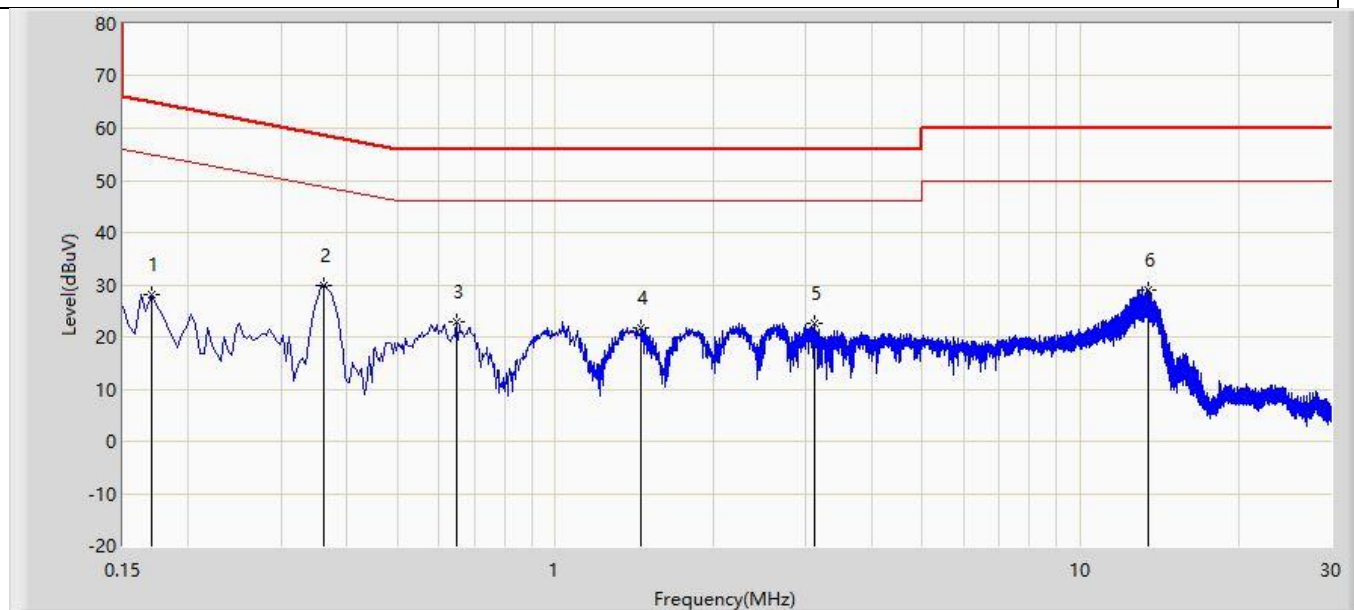
5 TEST SETUP PHOTO AND EUT PHOTO

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

6 TEST RESULT

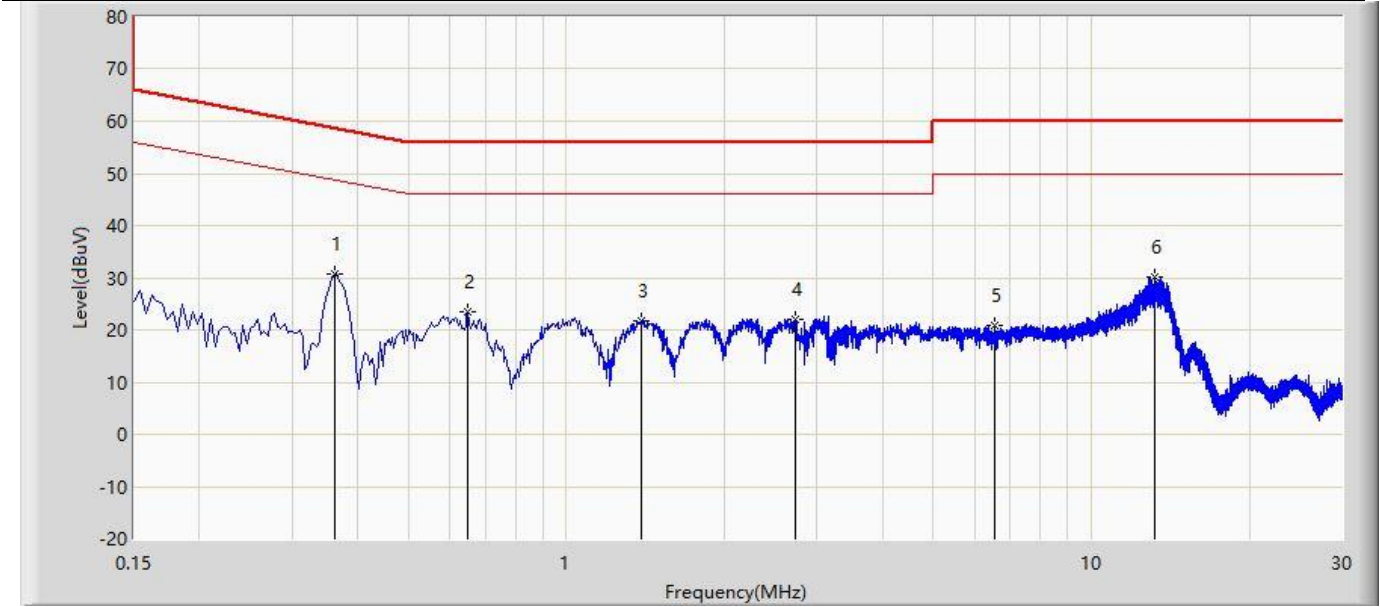
Appendix A: Conducted Emission

Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Transmit at 5180MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.170	28.136	18.472	-36.824	64.960	9.664	QP
2	*	0.362	29.958	20.277	-28.725	58.682	9.681	QP
3		0.650	23.018	13.347	-32.982	56.000	9.670	QP
4		1.458	21.783	12.053	-34.217	56.000	9.729	QP
5		3.118	22.648	12.851	-33.352	56.000	9.797	QP
6		13.494	28.984	18.971	-31.016	60.000	10.014	QP

Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Transmit at 5180MHz by 802.11a	



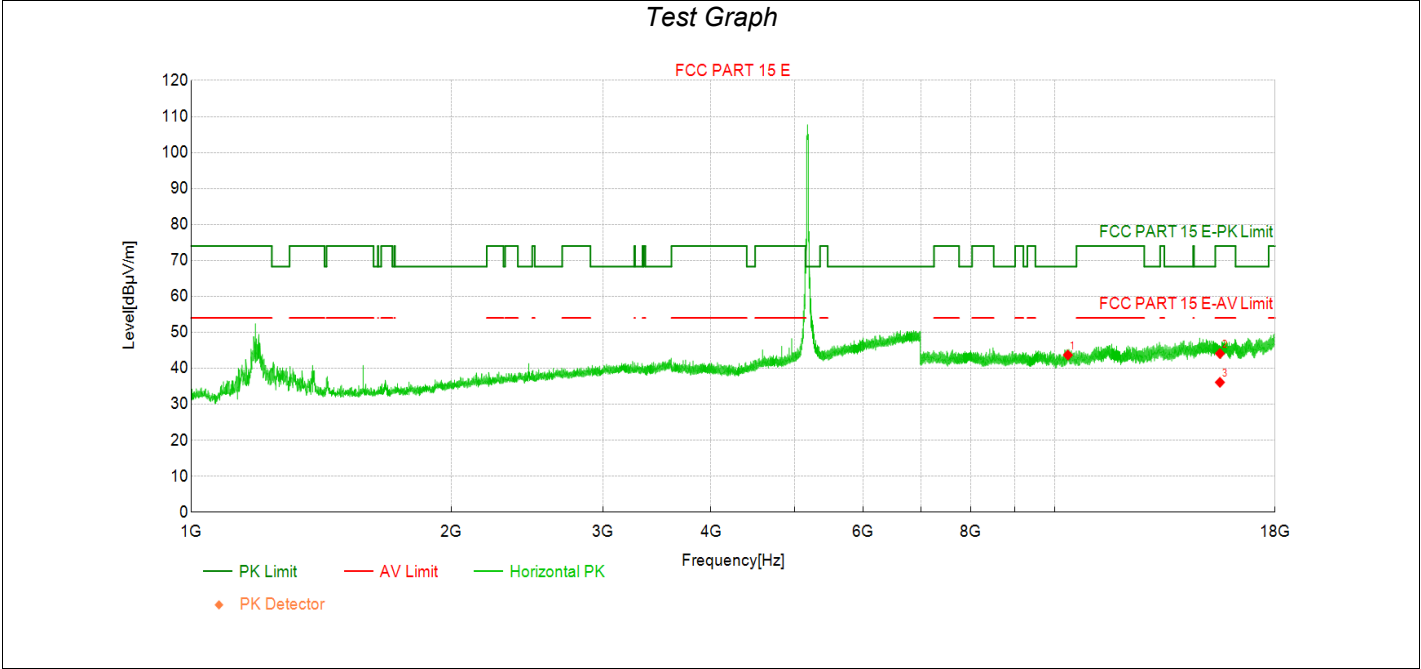
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.362	30.652	21.036	-28.030	58.682	9.616	QP
2		0.650	23.417	13.781	-32.583	56.000	9.636	QP
3		1.390	21.794	12.108	-34.206	56.000	9.686	QP
4		2.730	22.115	12.382	-33.885	56.000	9.733	QP
5		6.526	20.861	10.979	-39.139	60.000	9.881	QP
6		13.234	30.159	20.128	-29.841	60.000	10.031	QP

Note:

1. " * ", means this data is the worst emission level.

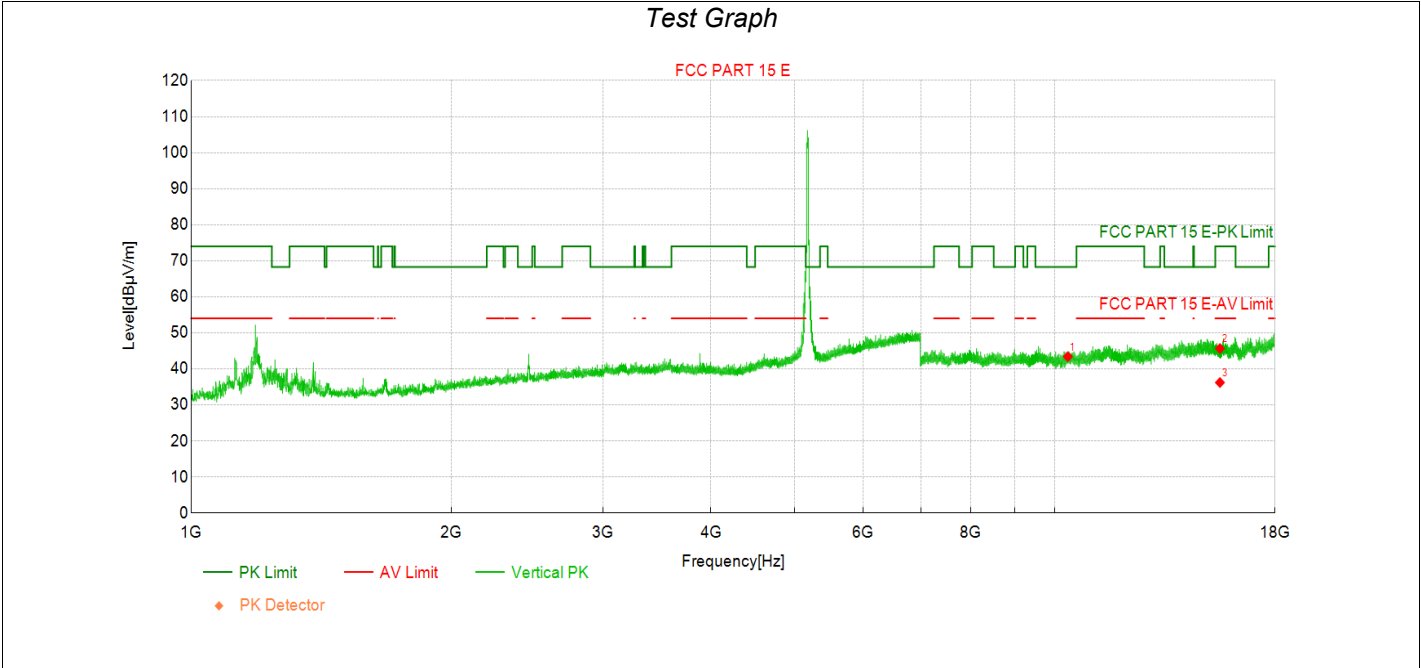
Appendix B: Radiated Emission

Transmit at 5180MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	42.1	43.69	1.620	68.30	24.61	PK	Horizo	PASS
2	15540.00	35.0	44.12	9.100	74.00	29.88	PK	Horizo	PASS
3	15540.00	27.0	36.11	9.100	54.00	17.89	AV	Horizo	PASS

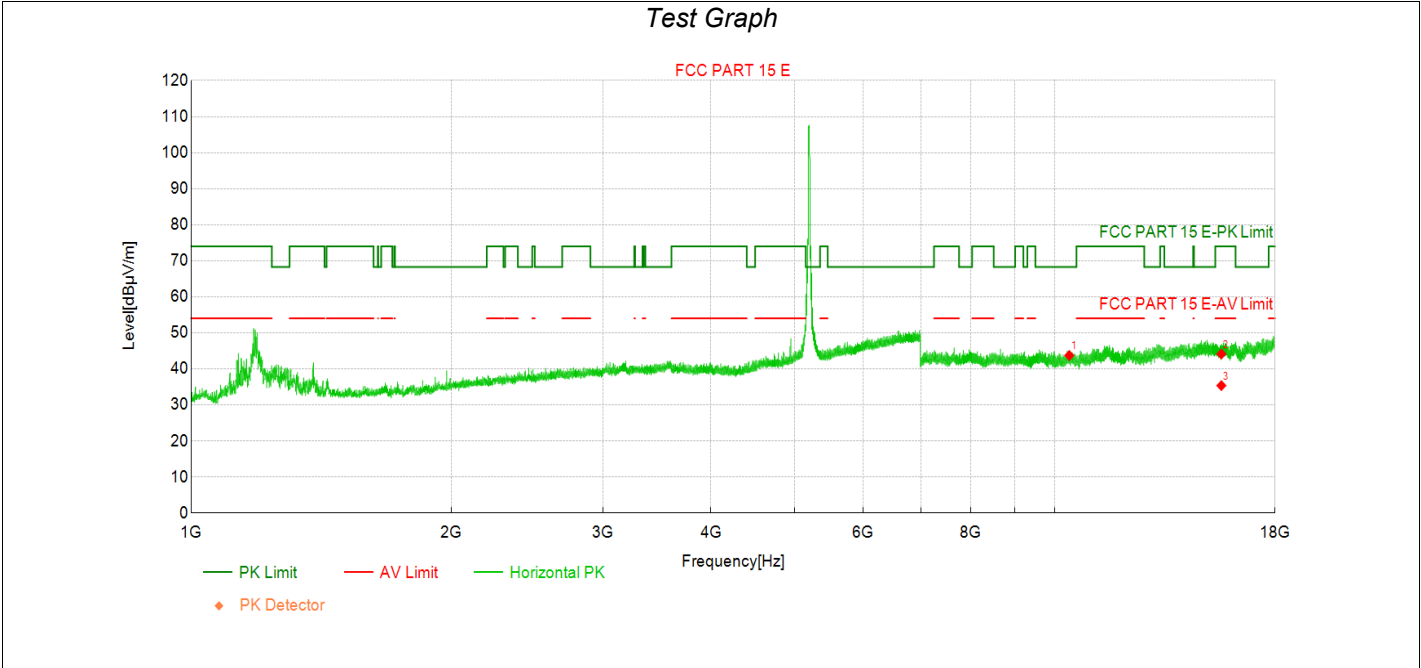
Transmit at 5180MHz by 802.11a



Data List

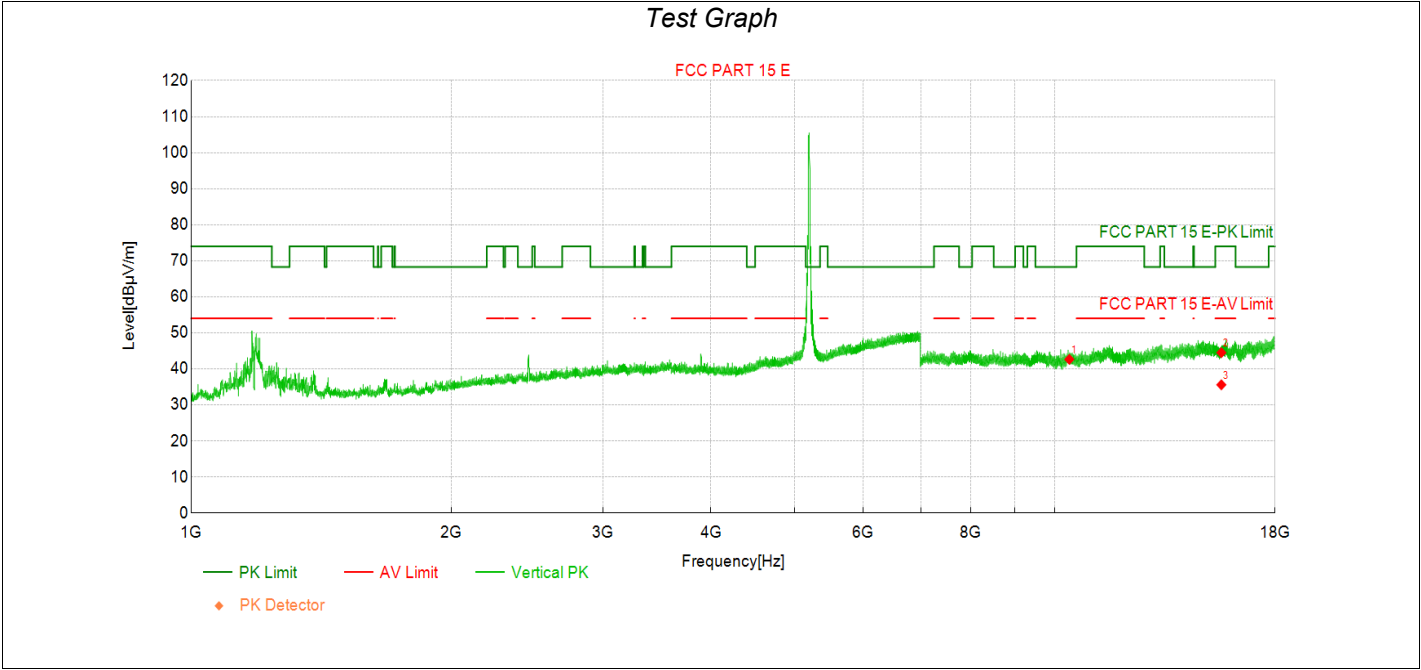
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	41.8	43.41	1.620	68.30	24.89	PK	Vertic	PASS
2	15540.00	36.6	45.65	9.100	74.00	28.35	PK	Vertic	PASS
3	15540.00	27.1	36.22	9.100	54.00	17.78	AV	Vertic	PASS

Transmit at 5200MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	42.2	43.72	1.550	68.30	24.58	PK	Horizo	PASS
2	15600.00	34.8	44.14	9.310	74.00	29.86	PK	Horizo	PASS
3	15600.00	26.1	35.37	9.310	54.00	18.63	AV	Horizo	PASS

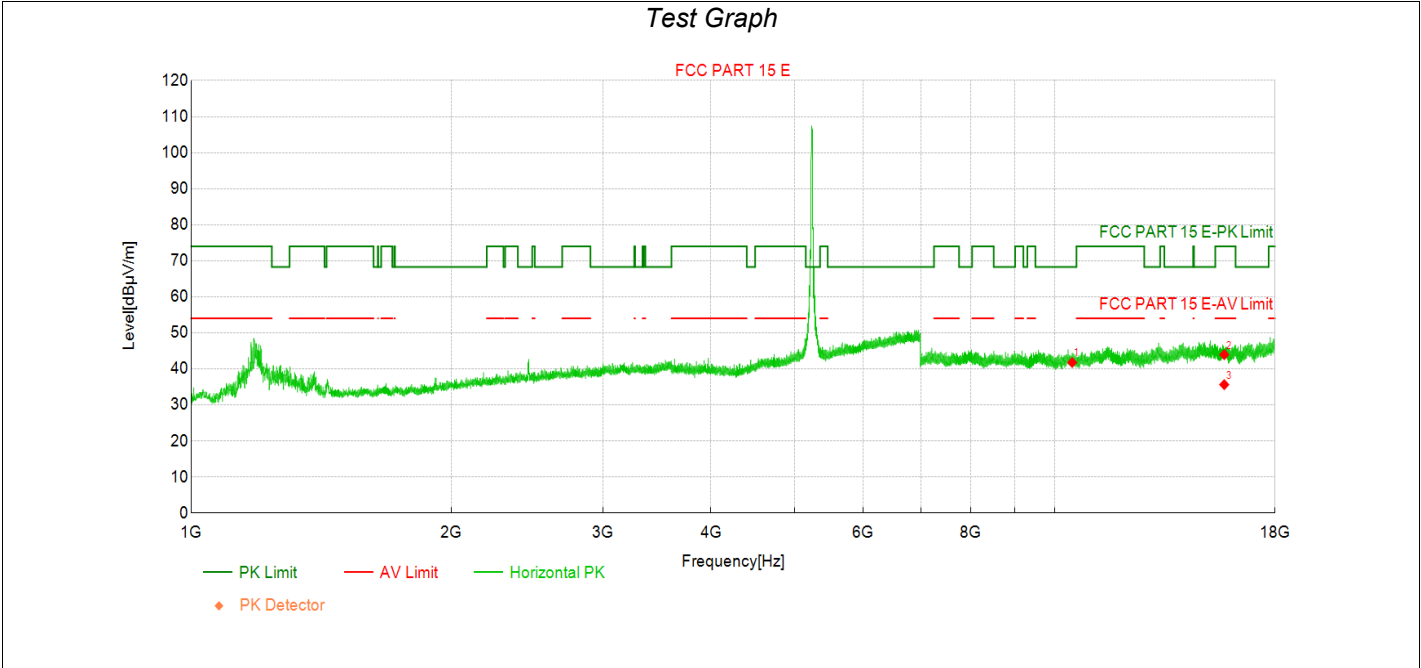
Transmit at 5200MHz by 802.11a



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	41.1	42.65	1.550	68.30	25.65	PK	Vertic	PASS
2	15600.00	35.2	44.50	9.310	74.00	29.50	PK	Vertic	PASS
3	15600.00	26.3	35.59	9.310	54.00	18.41	AV	Vertic	PASS

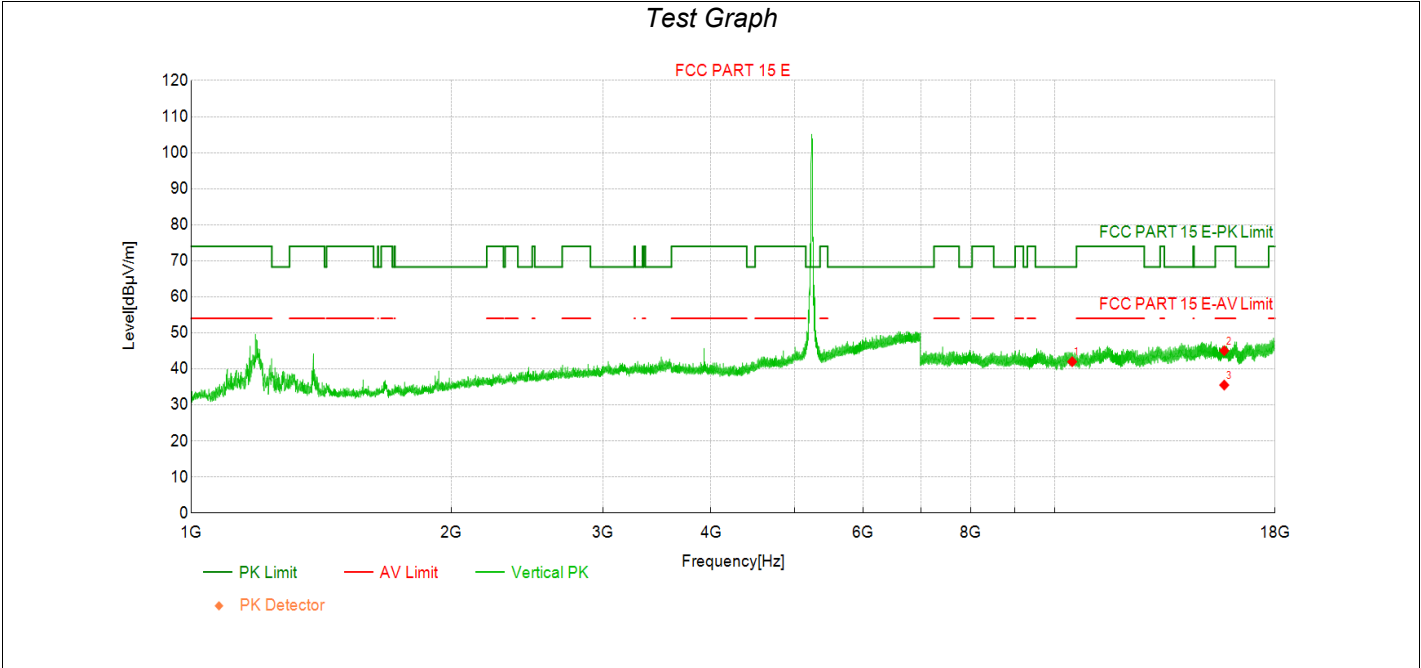
Transmit at 5240MHz by 802.11a



Data List

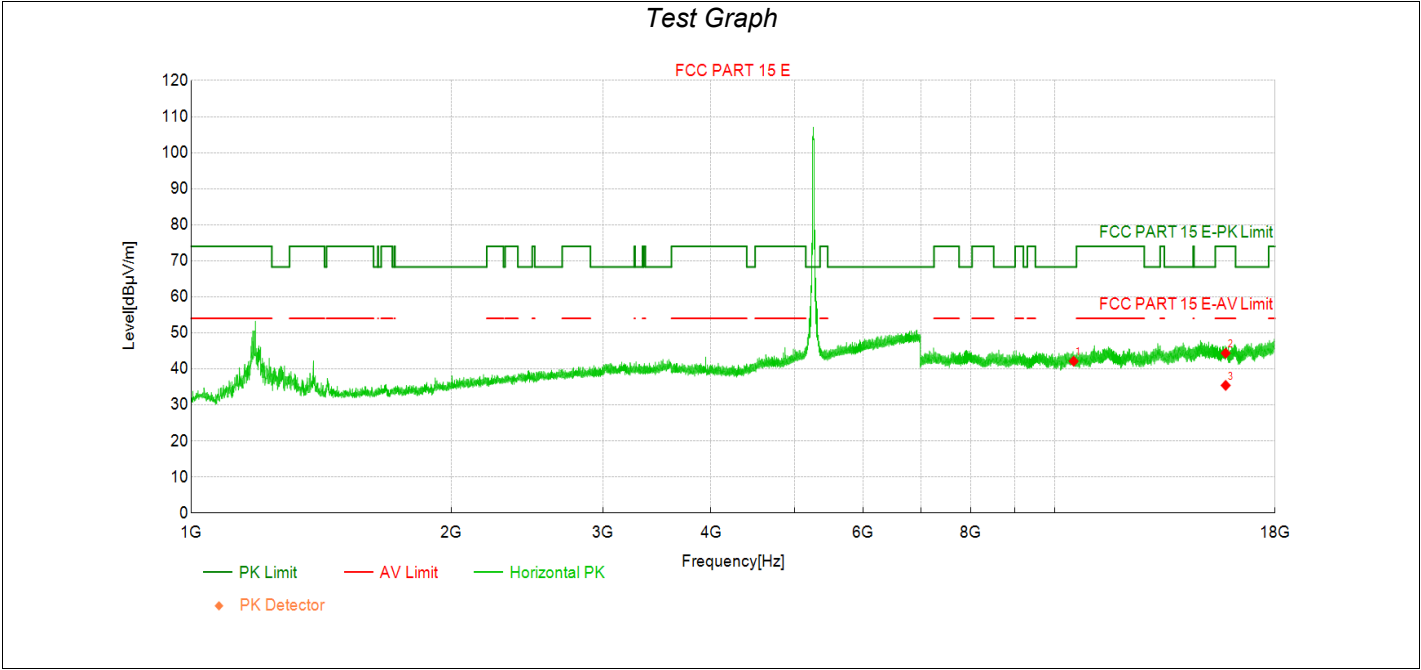
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10480.00	40.1	41.77	1.680	68.30	26.53	PK	Horizo	PASS
2	15720.00	34.4	43.94	9.500	74.00	30.06	PK	Horizo	PASS
3	15720.00	26.1	35.63	9.500	54.00	18.37	AV	Horizo	PASS

Transmit at 5240MHz by 802.11a



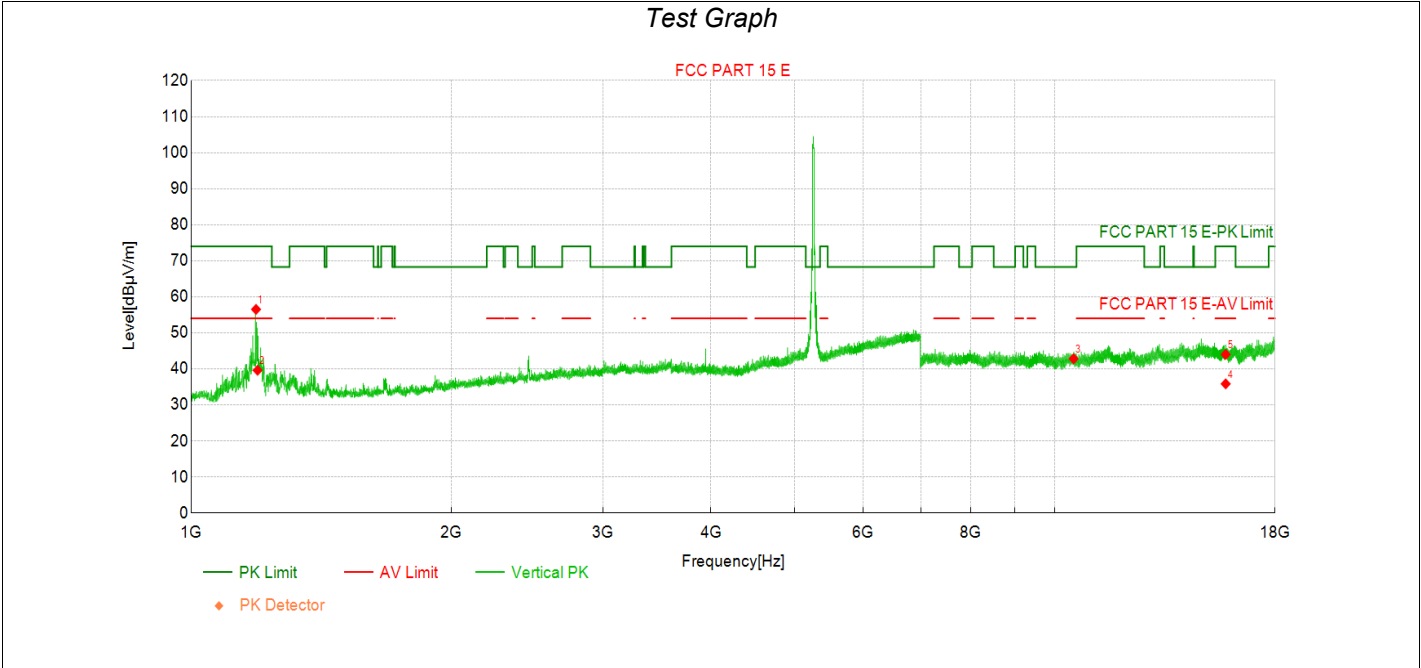
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10480.00	40.3	42.00	1.680	68.30	26.30	PK	Vertic	PASS
2	15720.00	35.6	45.06	9.500	74.00	28.94	PK	Vertic	PASS
3	15720.00	26.0	35.51	9.500	54.00	18.49	AV	Vertic	PASS

Transmit at 5260MHz by 802.11a



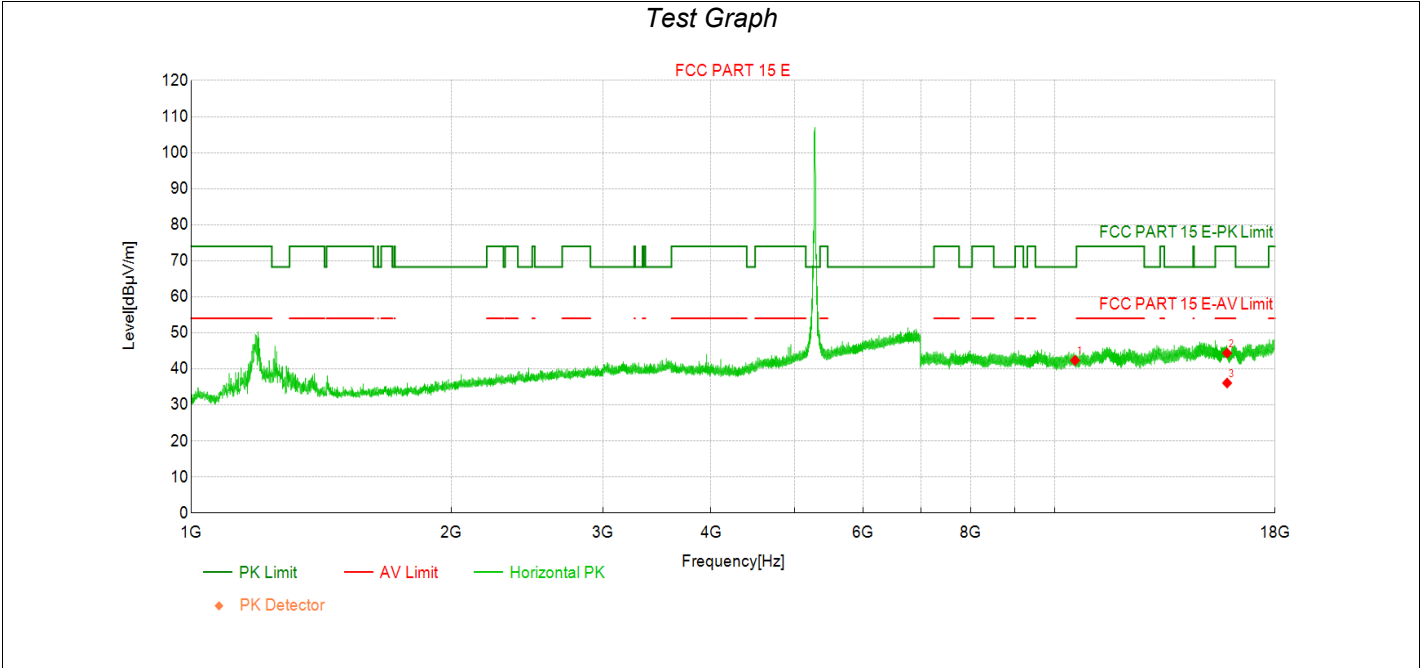
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10520.00	40.4	42.13	1.690	68.30	26.17	PK	Horizo	PASS
2	15780.00	35.0	44.35	9.330	74.00	29.65	PK	Horizo	PASS
3	15780.00	26.1	35.42	9.330	54.00	18.58	AV	Horizo	PASS

Transmit at 5260MHz by 802.11a



Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	1188.77	62.3	56.52	-5.730	74.00	17.48	PK	Vertic	PASS
2	1193.85	45.3	39.62	-5.710	54.00	14.38	AV	Vertic	PASS
3	10520.00	41.1	42.82	1.690	68.30	25.48	PK	Vertic	PASS
4	15780.00	26.5	35.85	9.330	54.00	18.15	AV	Vertic	PASS
5	15780.00	34.7	44.00	9.330	74.00	30.00	PK	Vertic	PASS

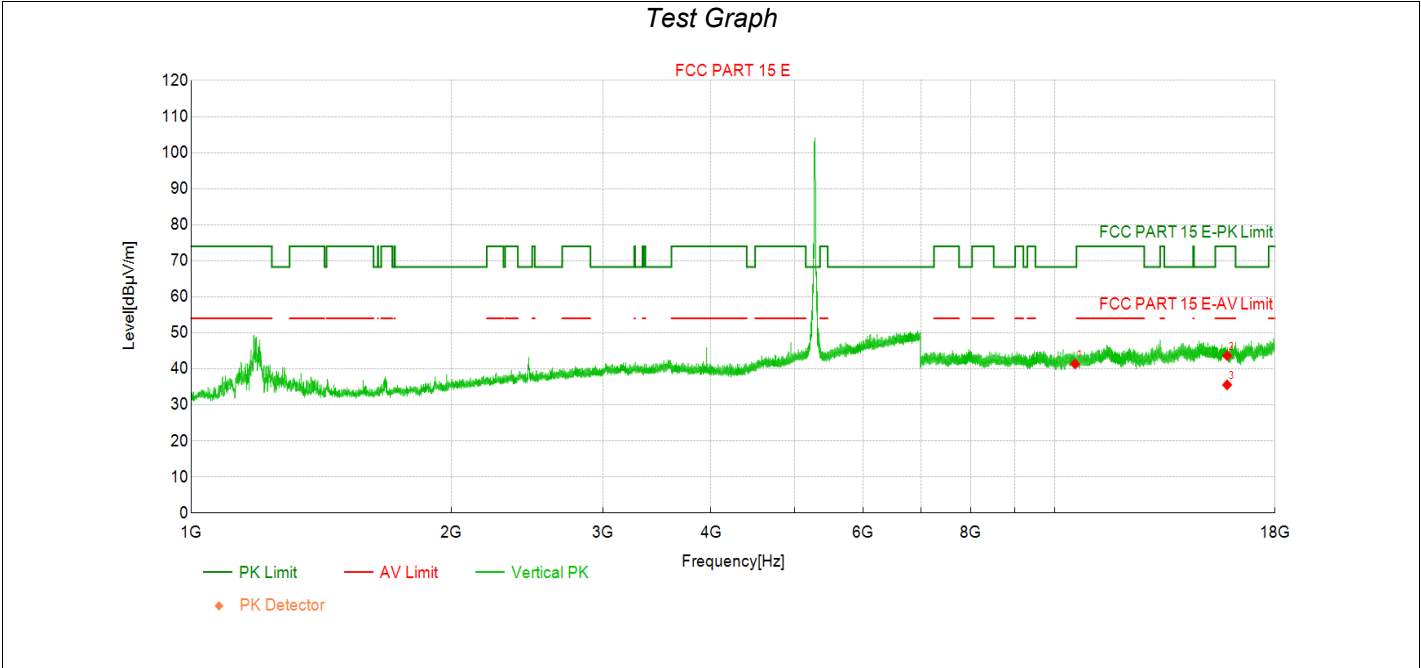
Transmit at 5280MHz by 802.11a



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.00	40.7	42.37	1.630	68.30	25.93	PK	Horizo	PASS
2	15840.00	35.1	44.38	9.280	74.00	29.62	PK	Horizo	PASS
3	15840.00	26.8	36.08	9.280	54.00	17.92	AV	Horizo	PASS

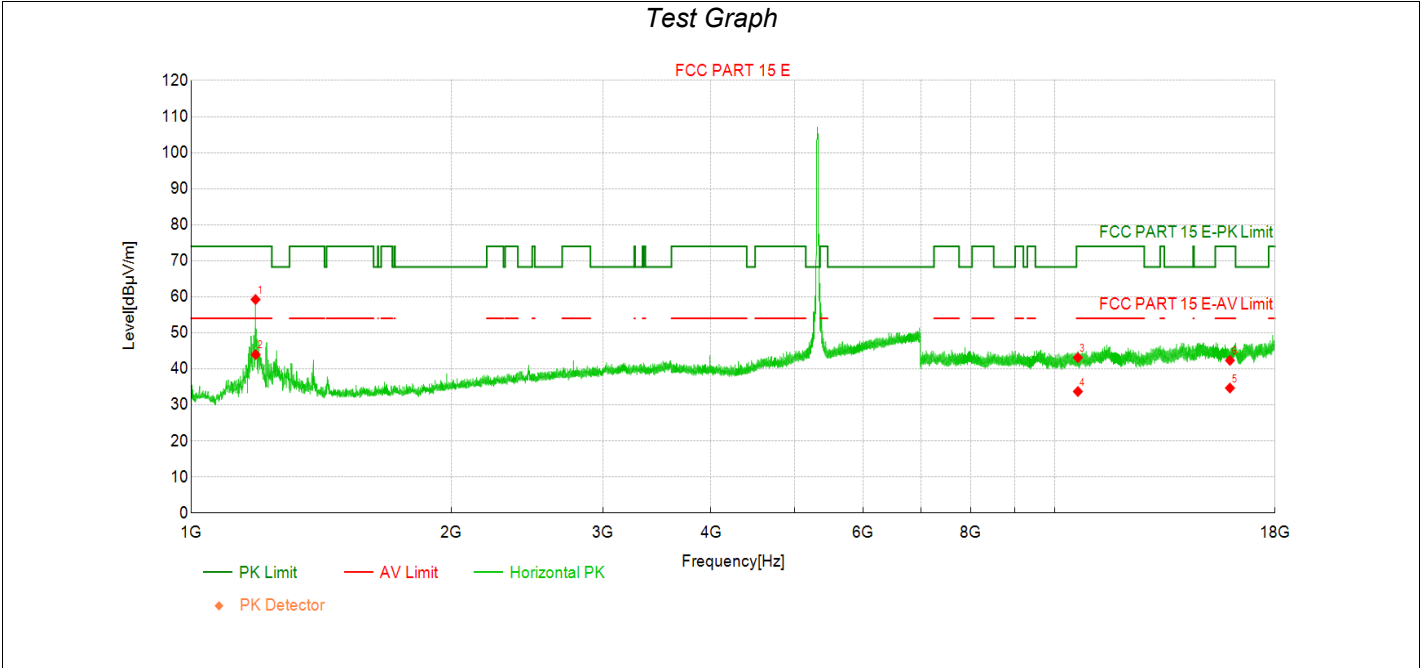
Transmit at 5280MHz by 802.11a



Data List

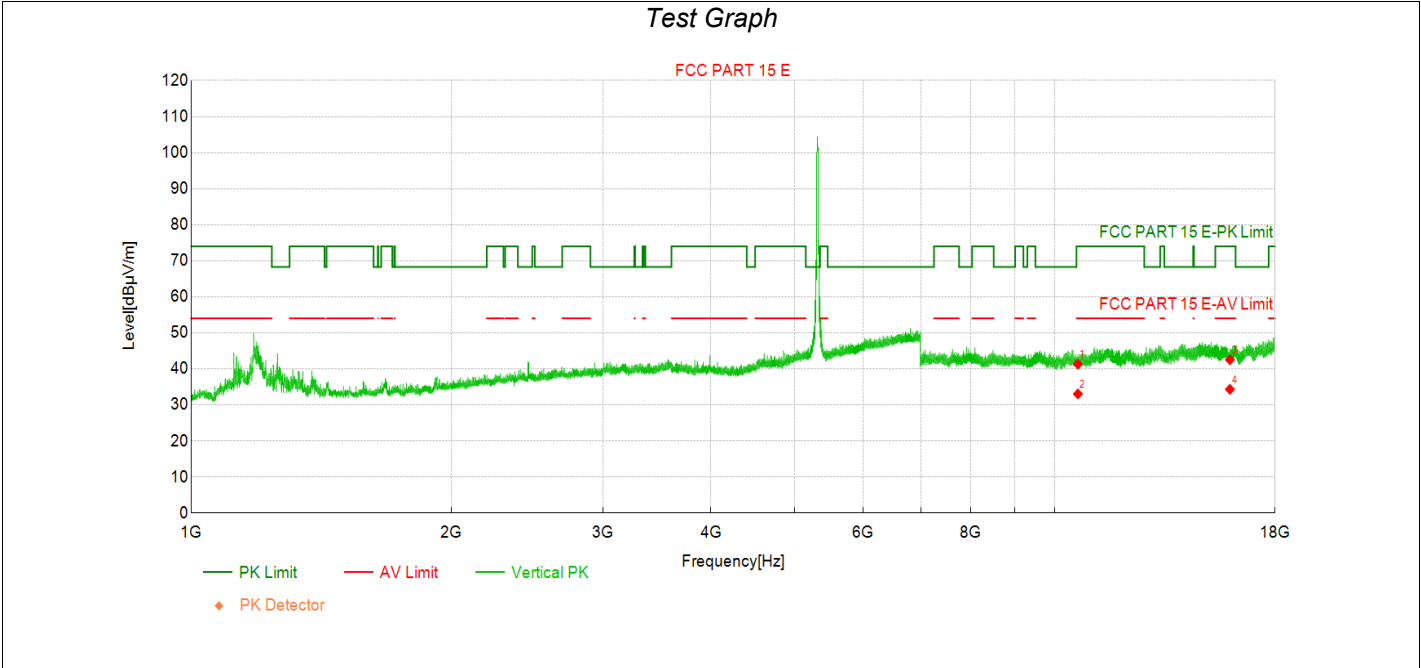
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.00	39.7	41.37	1.630	68.30	26.93	PK	Vertic	PASS
2	15840.00	34.4	43.68	9.280	74.00	30.32	PK	Vertic	PASS
3	15840.00	26.3	35.56	9.280	54.00	18.44	AV	Vertic	PASS

Transmit at 5320MHz by 802.11a



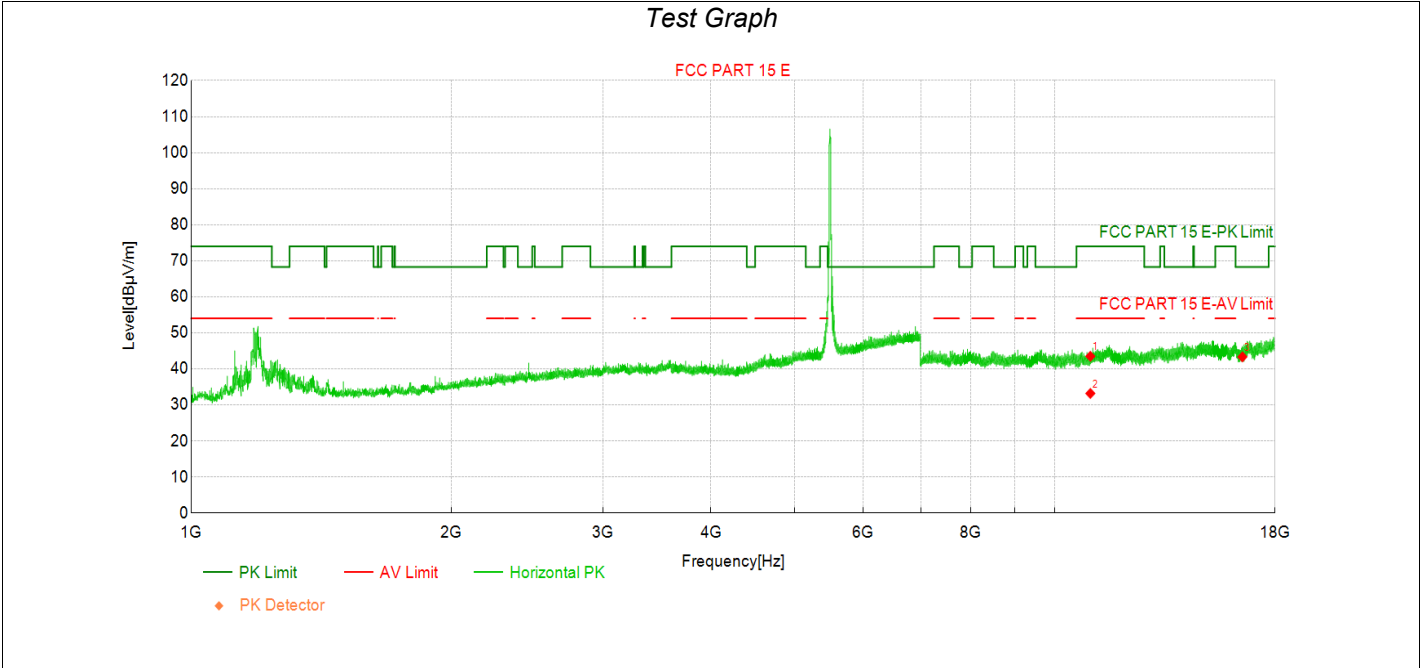
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.38	65.0	59.26	-5.740	74.00	14.74	PK	Horizo	PASS
2	1187.85	49.7	43.96	-5.740	54.00	10.04	AV	Horizo	PASS
3	10640.00	41.3	43.12	1.800	74.00	30.88	PK	Horizo	PASS
4	10640.00	31.9	33.71	1.800	54.00	20.29	AV	Horizo	PASS
5	15960.00	25.1	34.68	9.590	54.00	19.32	AV	Horizo	PASS
6	15960.00	32.8	42.36	9.590	74.00	31.64	PK	Horizo	PASS

Transmit at 5320MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10640.00	39.5	41.29	1.800	74.00	32.71	PK	Vertic	PASS
2	10640.00	31.3	33.06	1.800	54.00	20.94	AV	Vertic	PASS
3	15960.00	32.9	42.53	9.590	74.00	31.47	PK	Vertic	PASS
4	15960.00	24.8	34.34	9.590	54.00	19.66	AV	Vertic	PASS

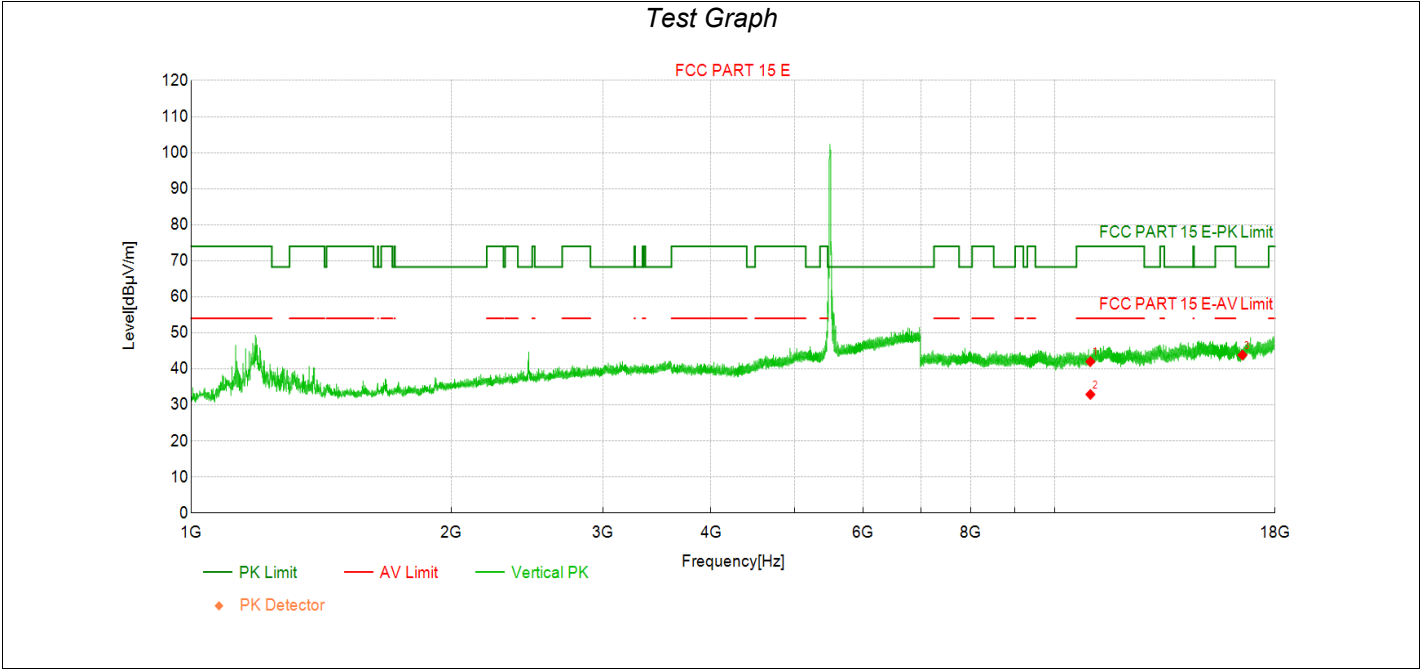
Transmit at 5500MHz by 802.11a



Data List

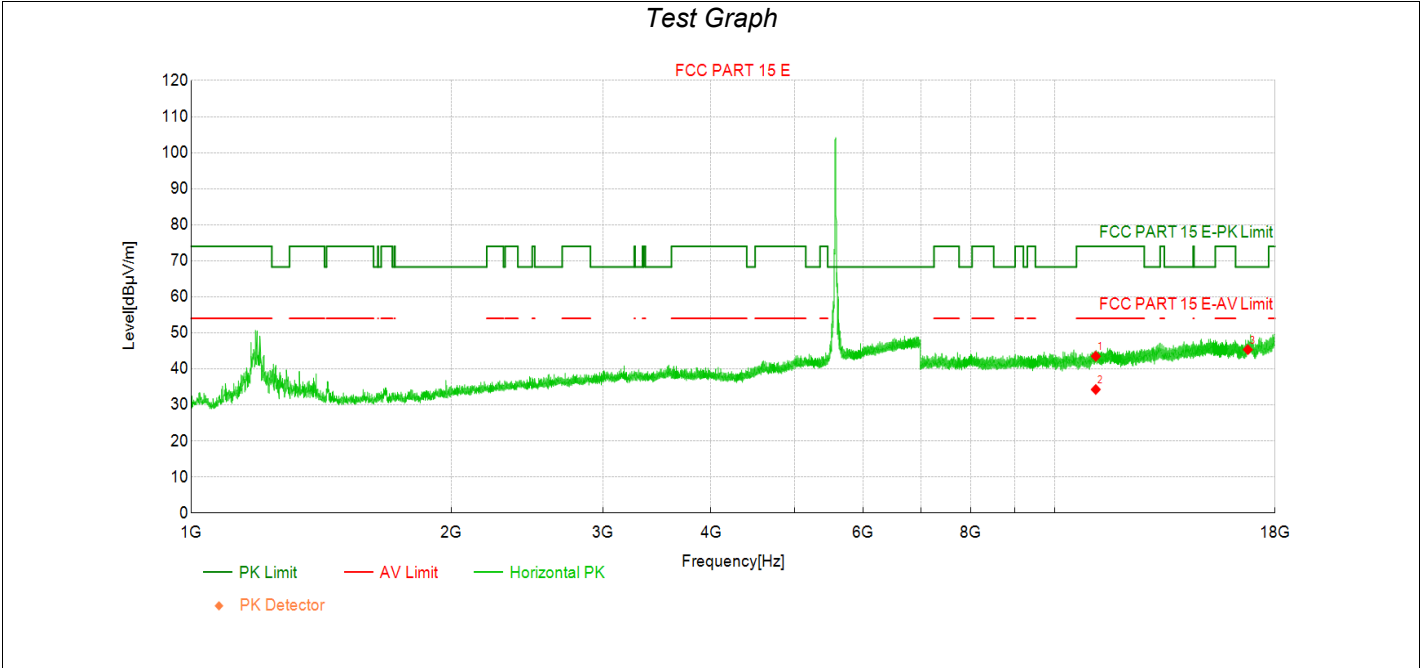
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	41.5	43.50	2.020	74.00	30.50	PK	Horizo	PASS
2	11000.00	31.2	33.19	2.020	54.00	20.81	AV	Horizo	PASS
3	16500.00	33.9	43.33	9.470	68.30	24.97	PK	Horizo	PASS

Transmit at 5500MHz by 802.11a



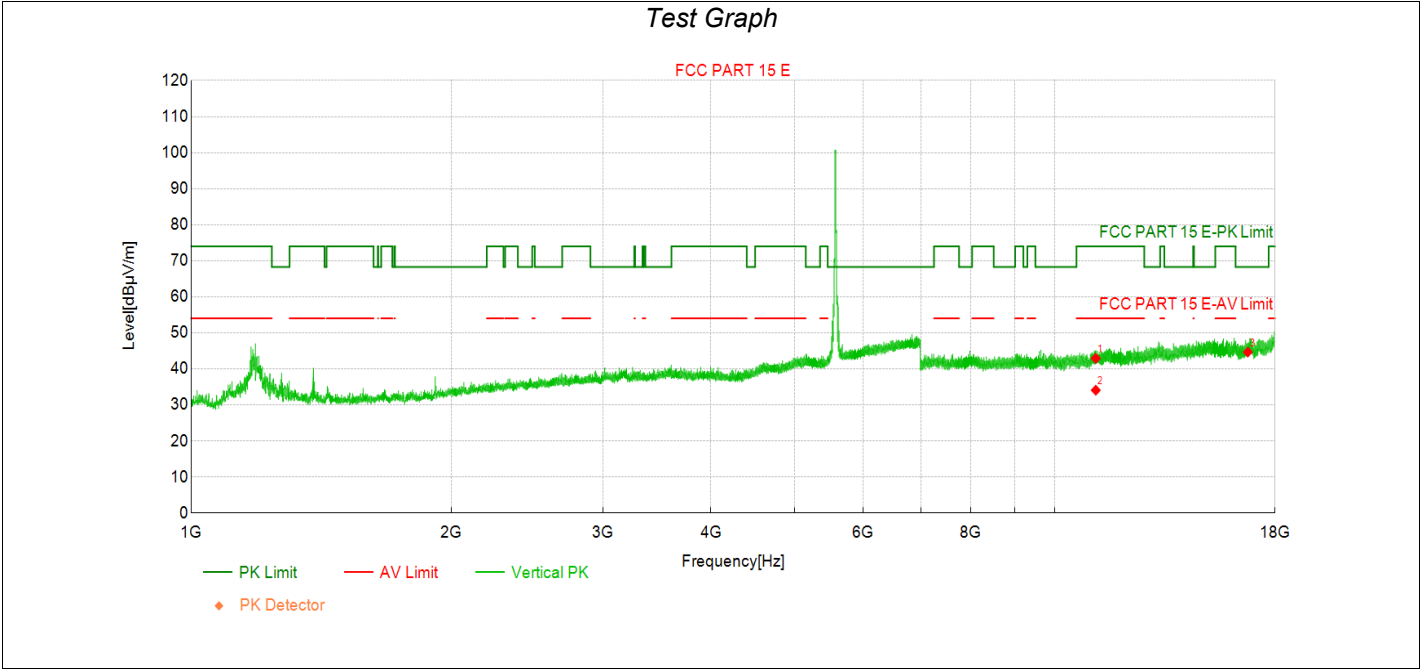
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	40.0	42.02	2.020	74.00	31.98	PK	Vertic	PASS
2	11000.00	30.9	32.91	2.020	54.00	21.09	AV	Vertic	PASS
3	16500.00	34.4	43.84	9.470	68.30	24.46	PK	Vertic	PASS

Transmit at 5580MHz by 802.11a



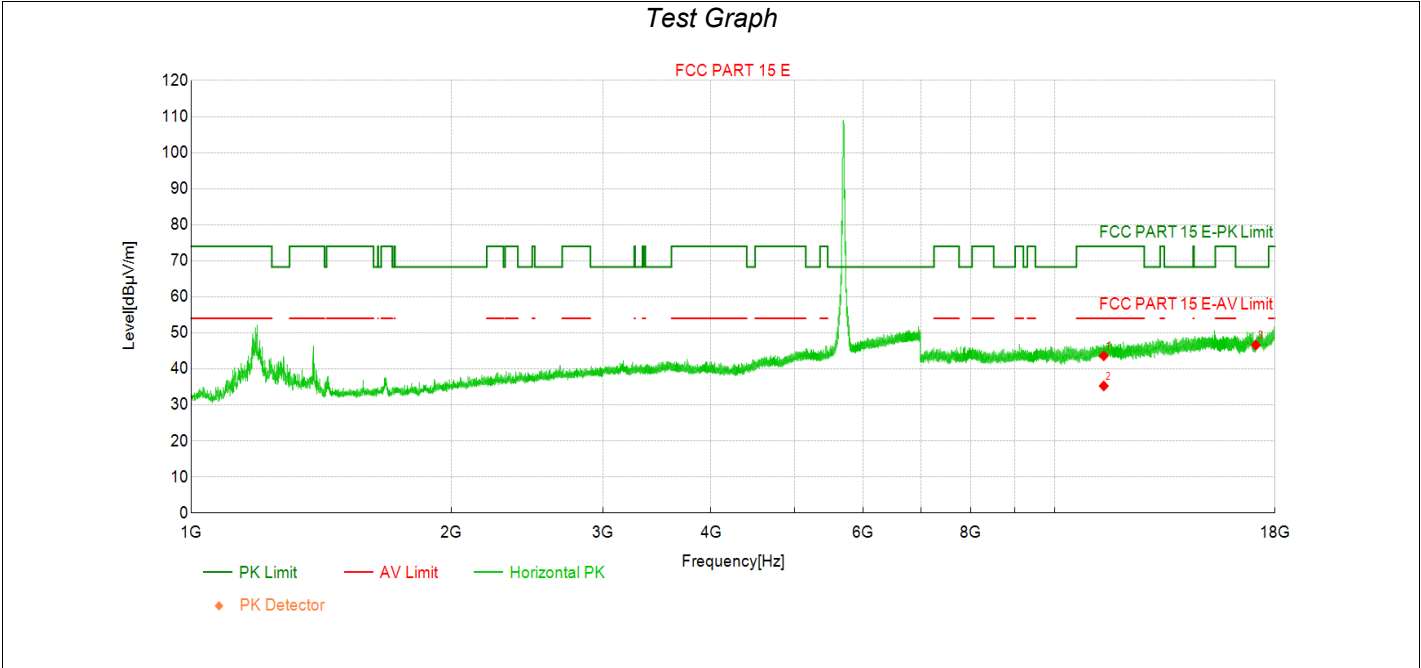
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	39.8	43.51	3.750	74.00	30.49	PK	Horizo	PASS
2	11160.00	30.5	34.29	3.750	54.00	19.71	AV	Horizo	PASS
3	16740.00	35.4	45.35	9.950	68.30	22.95	PK	Horizo	PASS

Transmit at 5580MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	39.2	42.93	3.750	74.00	31.07	PK	Vertic	PASS
2	11160.00	30.3	34.09	3.750	54.00	19.91	AV	Vertic	PASS
3	16740.00	34.7	44.67	9.950	68.30	23.63	PK	Vertic	PASS

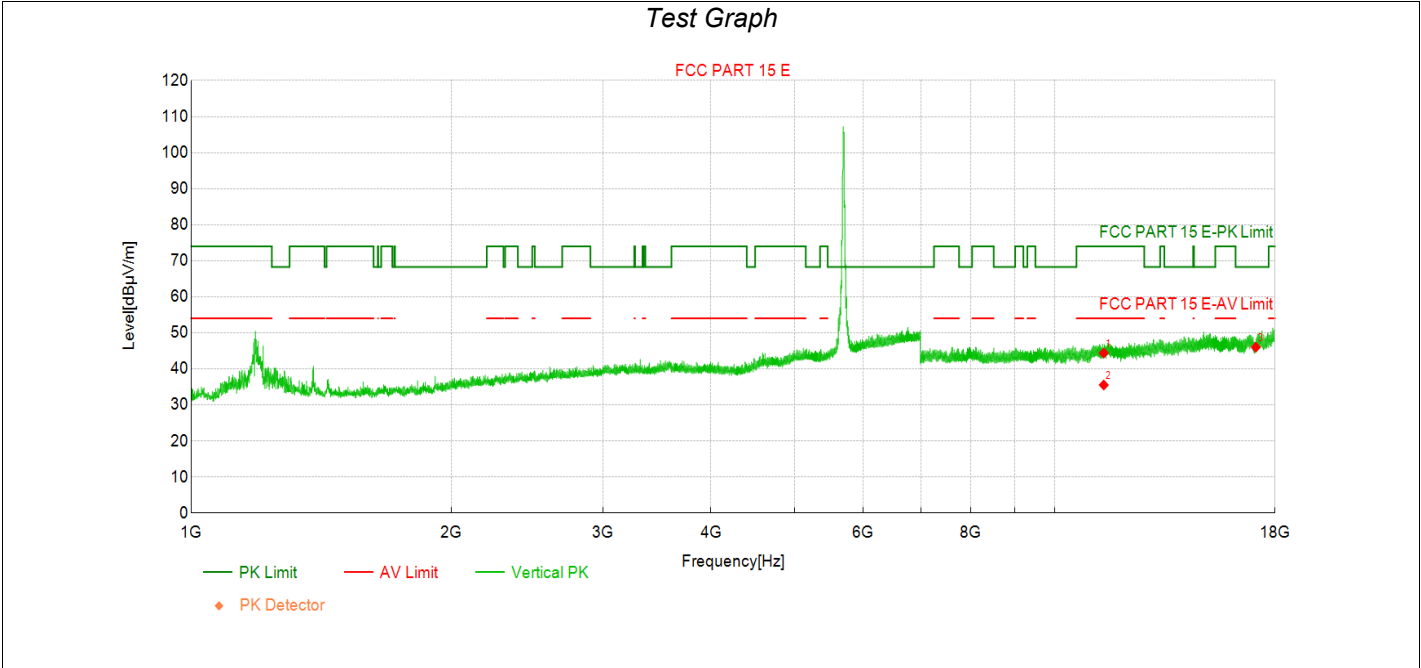
Transmit at 5700MHz by 802.11a



Data List

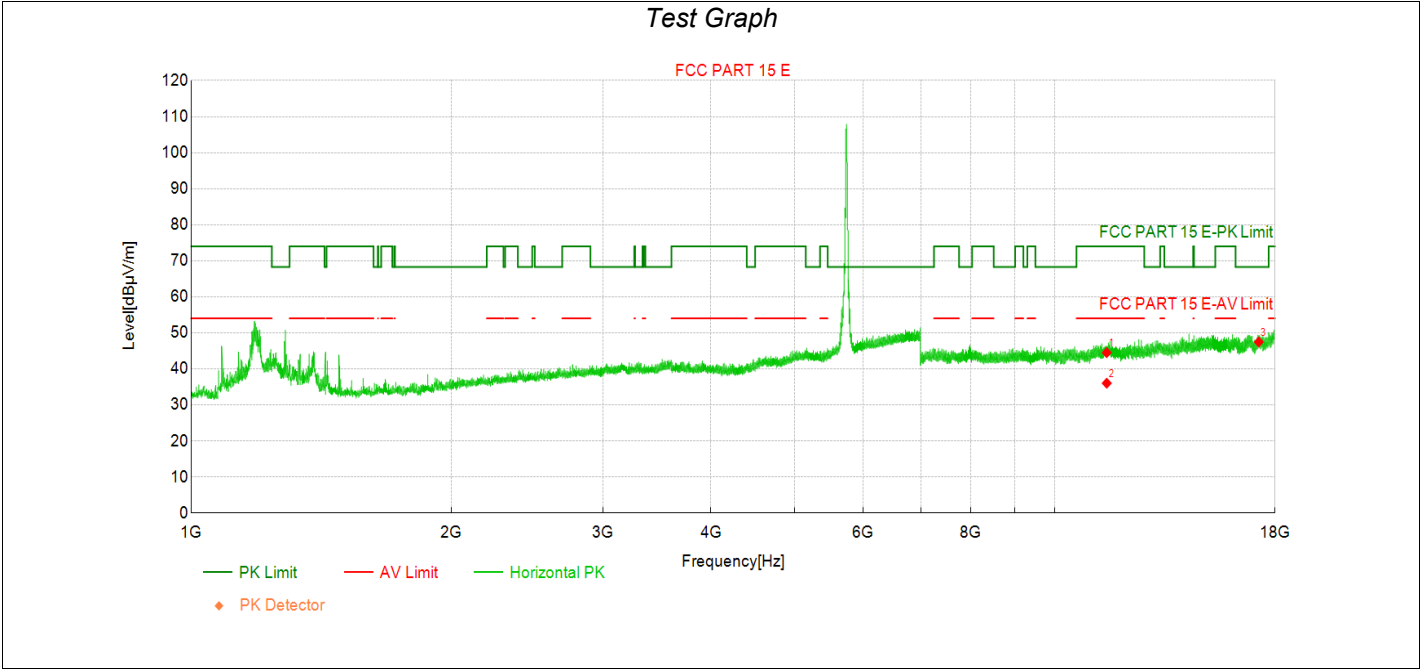
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	39.5	43.62	4.080	74.00	30.38	PK	Horizo	PASS
2	11400.00	31.2	35.27	4.080	54.00	18.73	AV	Horizo	PASS
3	17100.00	36.8	46.64	9.860	68.30	21.66	PK	Horizo	PASS

Transmit at 5700MHz by 802.11a



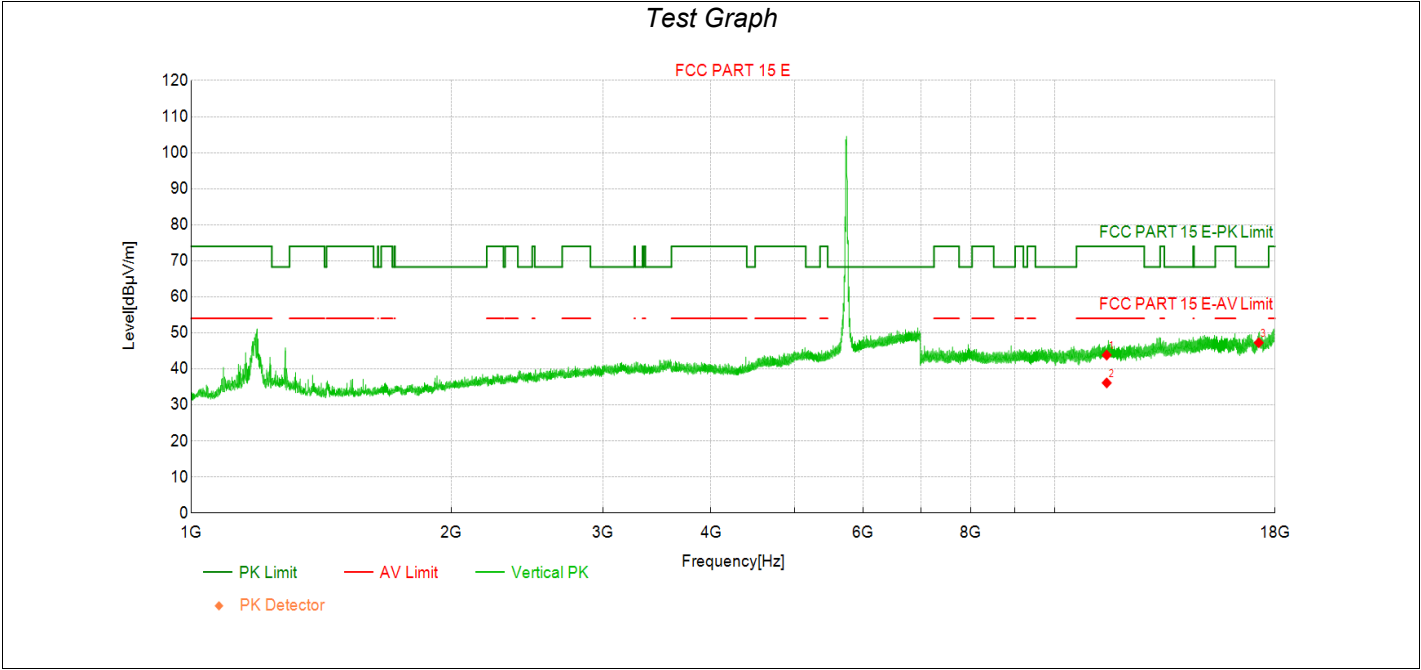
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	40.3	44.38	4.080	74.00	29.62	PK	Vertic	PASS
2	11400.00	31.5	35.54	4.080	54.00	18.46	AV	Vertic	PASS
3	17100.00	36.2	46.03	9.860	68.30	22.27	PK	Vertic	PASS

Transmit at 5745MHz by 802.11a



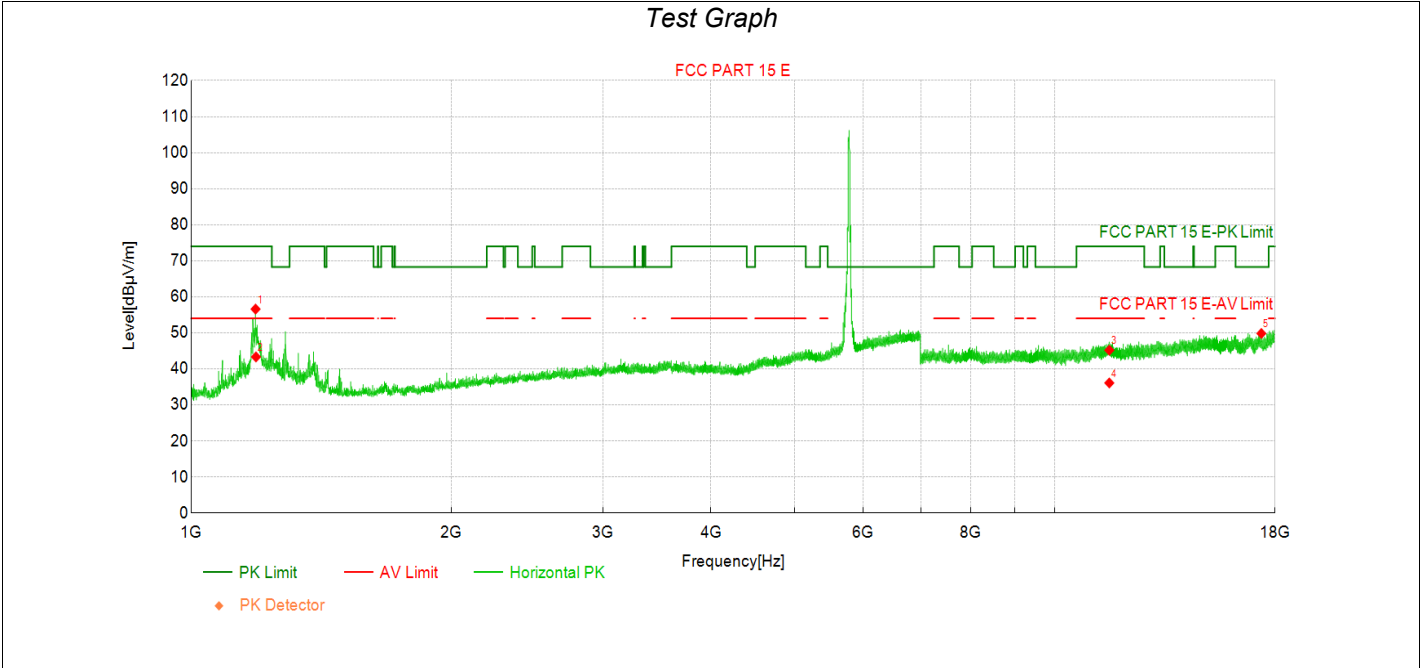
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	40.3	44.50	4.250	74.00	29.50	PK	Horizo	PASS
2	11490.00	31.8	36.03	4.250	54.00	17.97	AV	Horizo	PASS
3	17235.00	37.2	47.47	10.290	68.30	20.83	PK	Horizo	PASS

Transmit at 5745MHz by 802.11a



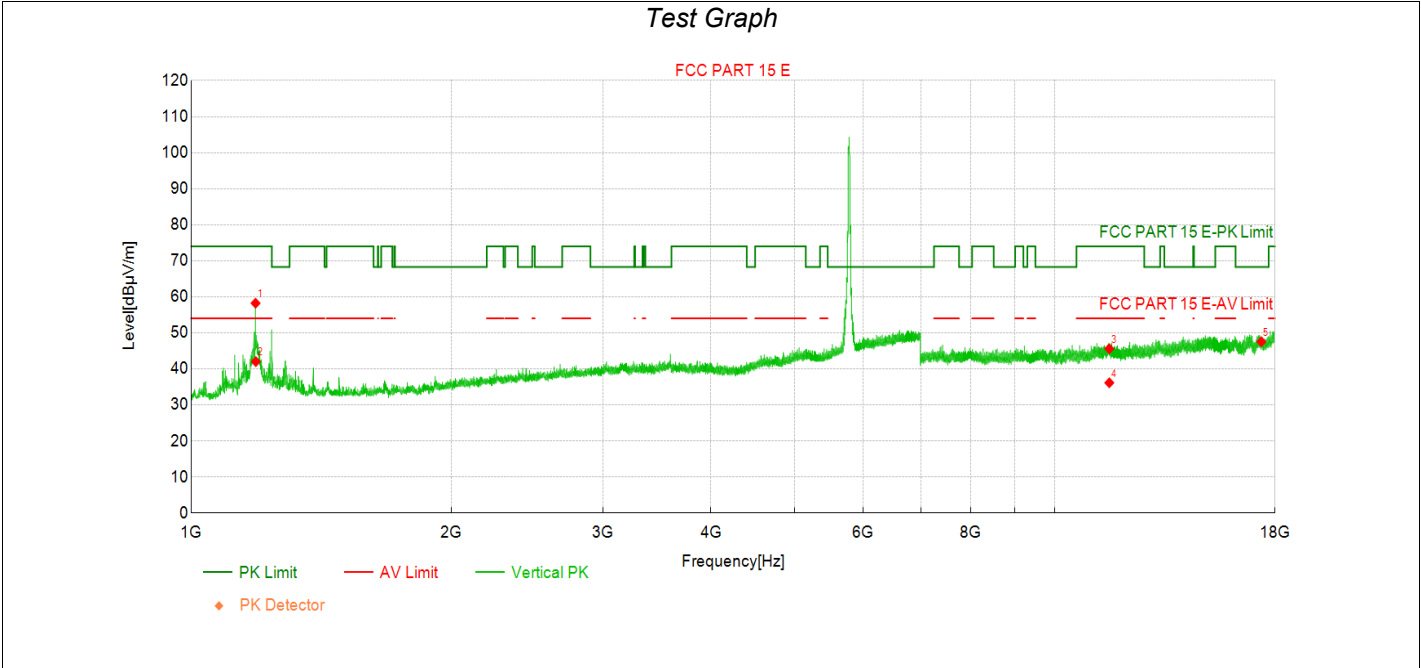
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	39.6	43.84	4.250	74.00	30.16	PK	Vertic	PASS
2	11490.00	31.9	36.12	4.250	54.00	17.88	AV	Vertic	PASS
3	17235.00	37.0	47.26	10.290	68.30	21.04	PK	Vertic	PASS

Transmit at 5785MHz by 802.11a



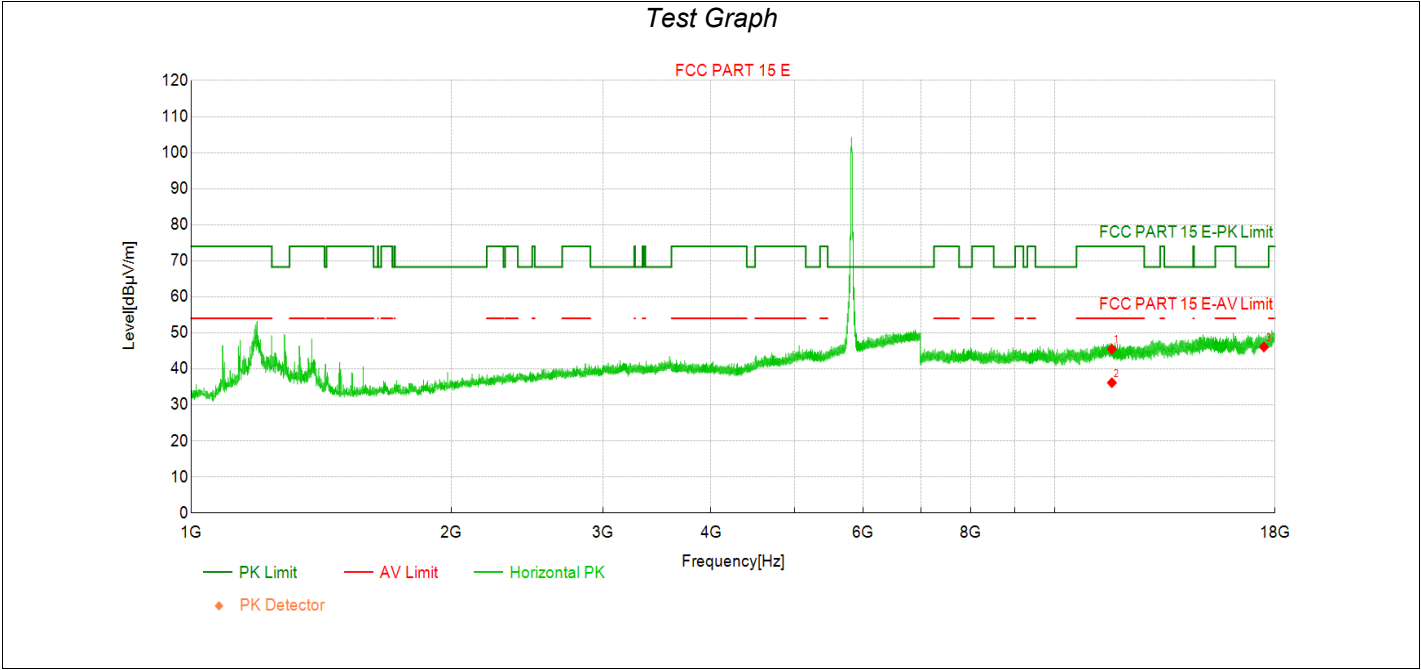
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.38	62.3	56.60	-5.740	74.00	17.40	PK	Horizo	PASS
2	1188.77	49.1	43.32	-5.730	54.00	10.68	AV	Horizo	PASS
3	11570.00	40.7	45.19	4.480	74.00	28.81	PK	Horizo	PASS
4	11570.00	31.6	36.10	4.480	54.00	17.90	AV	Horizo	PASS
5	17355.00	39.4	49.83	10.390	68.30	18.47	PK	Horizo	PASS

Transmit at 5785MHz by 802.11a



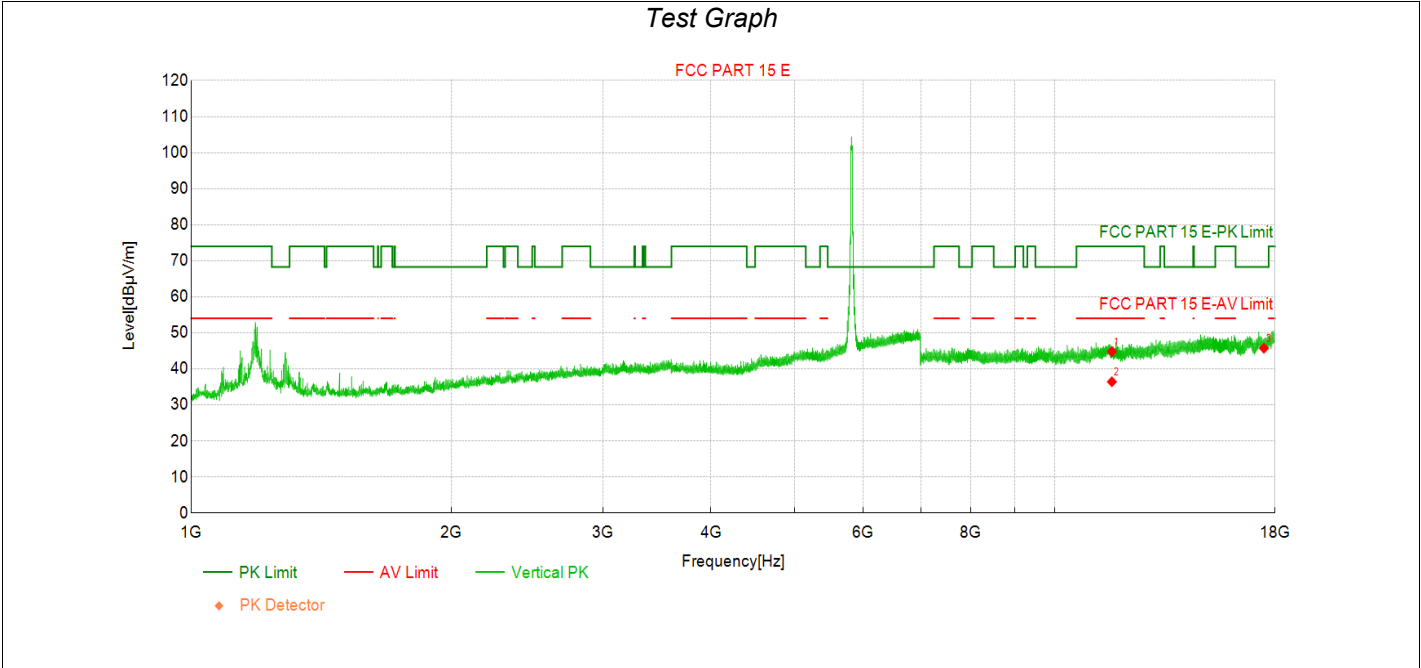
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.38	64.0	58.23	-5.740	74.00	15.77	PK	Vertic	PASS
2	1188.31	47.8	42.02	-5.740	54.00	11.98	AV	Vertic	PASS
3	11570.00	41.1	45.60	4.480	74.00	28.40	PK	Vertic	PASS
4	11570.00	31.7	36.14	4.480	54.00	17.86	AV	Vertic	PASS
5	17355.00	37.2	47.54	10.390	68.30	20.76	PK	Vertic	PASS

Transmit at 5825MHz by 802.11a



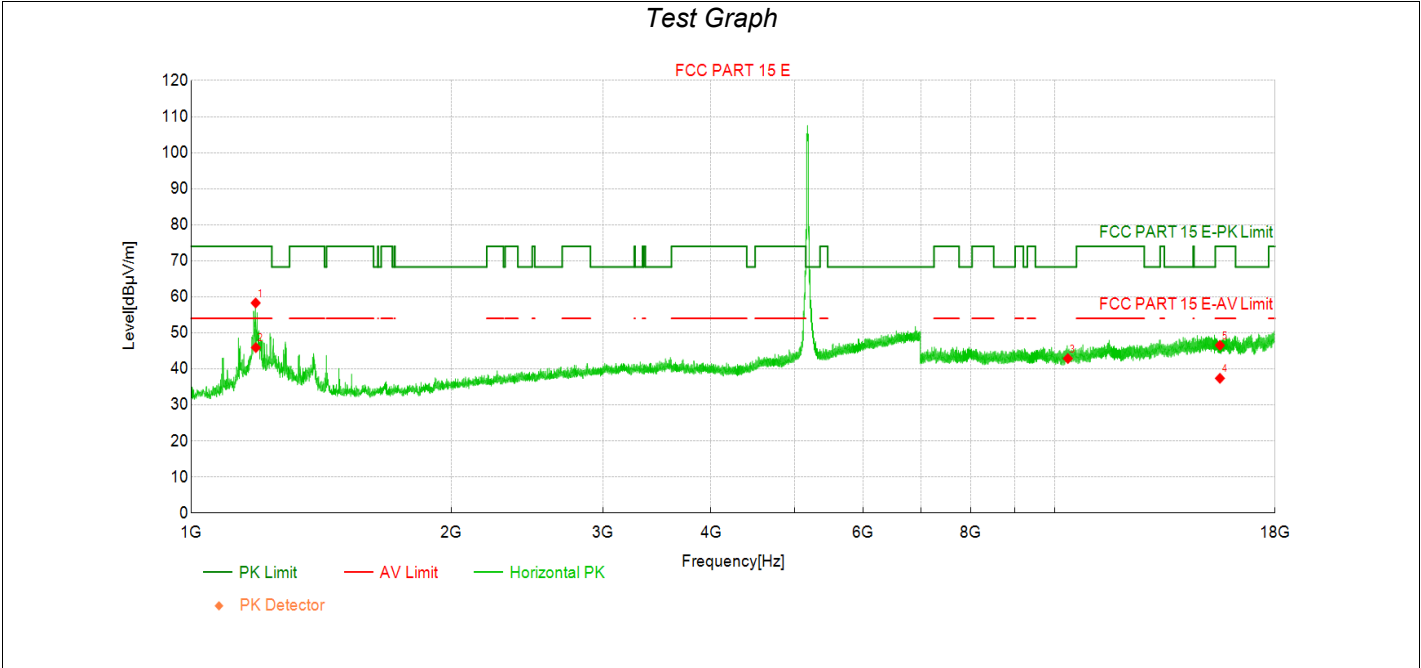
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	41.1	45.49	4.430	74.00	28.51	PK	Horizo	PASS
2	11650.00	31.7	36.15	4.430	54.00	17.85	AV	Horizo	PASS
3	17475.00	35.9	46.09	10.200	68.30	22.21	PK	Horizo	PASS

Transmit at 5825MHz by 802.11a



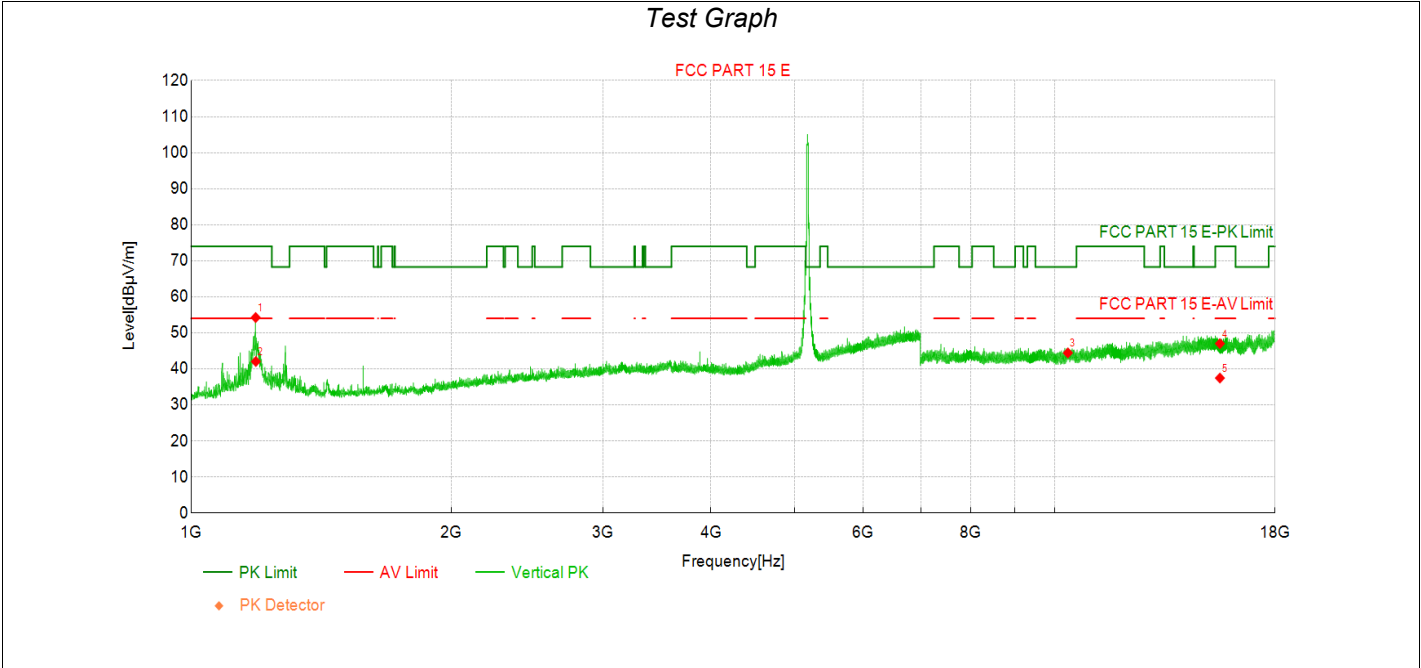
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	40.4	44.81	4.430	74.00	29.19	PK	Vertic	PASS
2	11650.00	32.0	36.43	4.430	54.00	17.57	AV	Vertic	PASS
3	17475.00	35.5	45.74	10.200	68.30	22.56	PK	Vertic	PASS

Transmit at 5180MHz by 802.11n(20MHz)



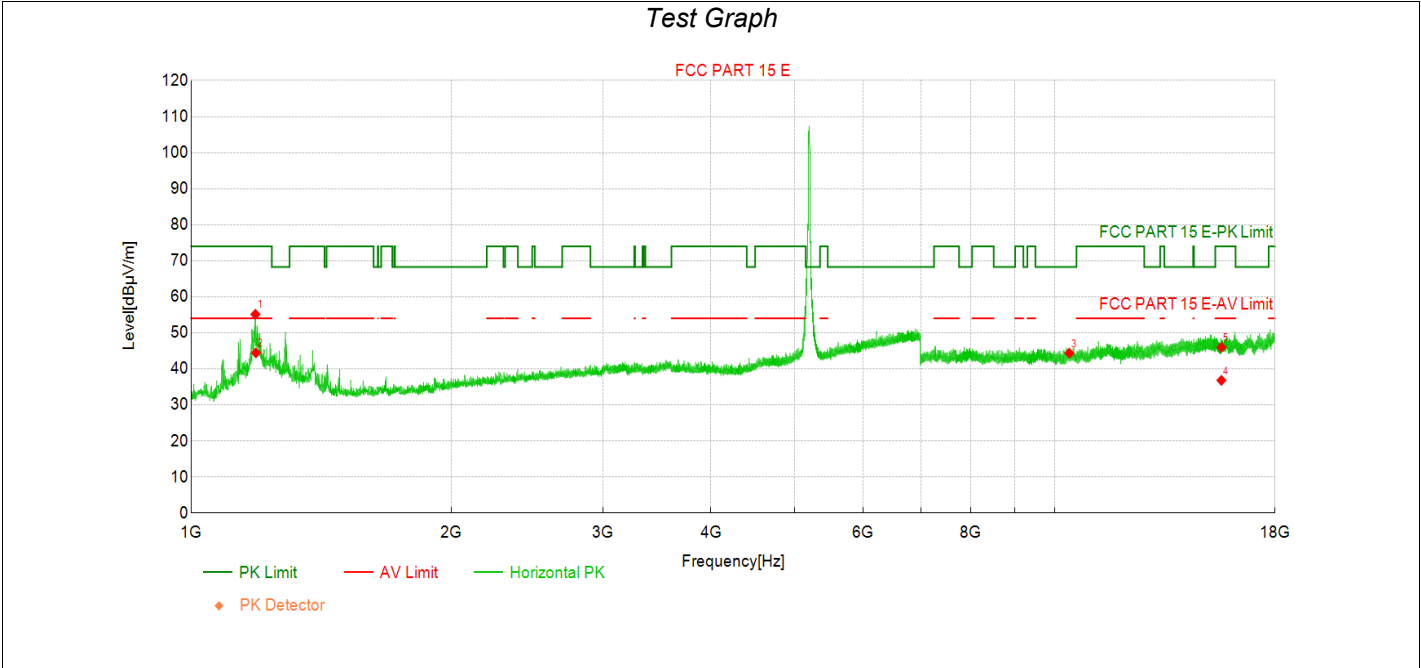
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.85	64.0	58.30	-5.740	74.00	15.70	PK	Horizo	PASS
2	1188.31	51.7	45.91	-5.740	54.00	8.09	AV	Horizo	PASS
3	10360.00	41.3	42.87	1.620	68.30	25.43	PK	Horizo	PASS
4	15540.00	28.3	37.38	9.100	54.00	16.62	AV	Horizo	PASS
5	15540.00	37.5	46.55	9.100	74.00	27.45	PK	Horizo	PASS

Transmit at 5180MHz by 802.11n(20MHz)



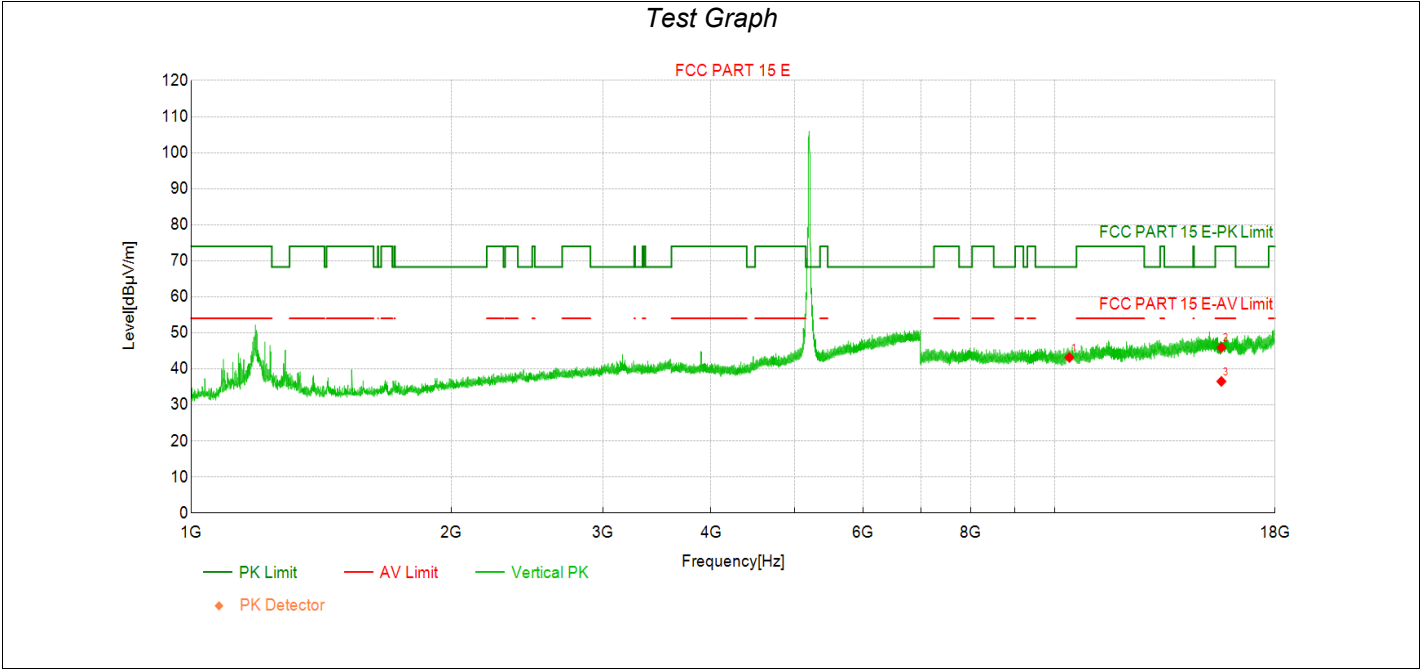
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.85	60.0	54.25	-5.740	74.00	19.75	PK	Vertic	PASS
2	1188.31	47.8	42.05	-5.740	54.00	11.95	AV	Vertic	PASS
3	10360.00	42.8	44.44	1.620	68.30	23.86	PK	Vertic	PASS
4	15540.00	37.9	47.02	9.100	74.00	26.98	PK	Vertic	PASS
5	15540.00	28.4	37.46	9.100	54.00	16.54	AV	Vertic	PASS

Transmit at 5200MHz 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	1186.92	60.9	55.15	-5.740	74.00	18.85	PK	Horizo	PASS
2	1188.31	50.2	44.45	-5.740	54.00	9.55	AV	Horizo	PASS
3	10400.00	42.8	44.36	1.550	68.30	23.94	PK	Horizo	PASS
4	15600.00	27.5	36.82	9.310	54.00	17.18	AV	Horizo	PASS
5	15600.00	36.7	45.99	9.310	74.00	28.01	PK	Horizo	PASS

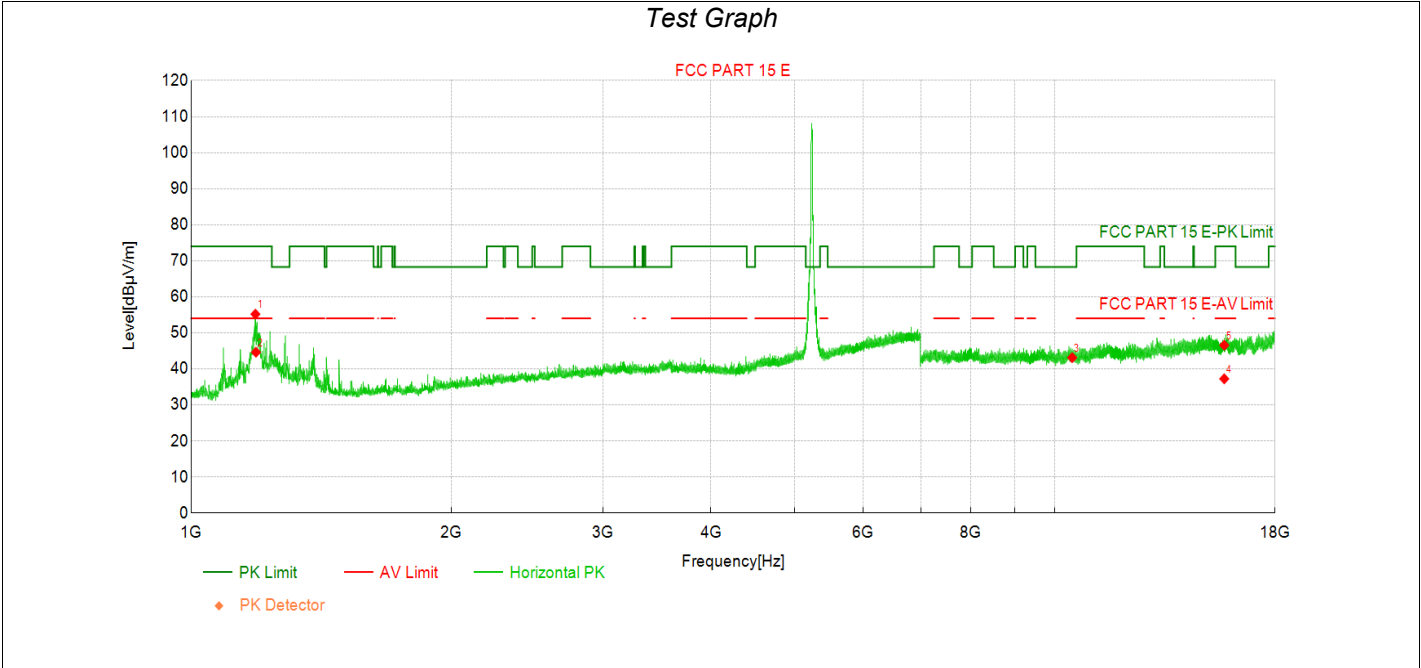
Transmit at 5200MHz by 802.11n(20MHz)



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	41.6	43.18	1.550	68.30	25.12	PK	Vertic	PASS
2	15600.00	36.6	45.93	9.310	74.00	28.07	PK	Vertic	PASS
3	15600.00	27.2	36.53	9.310	54.00	17.47	AV	Vertic	PASS

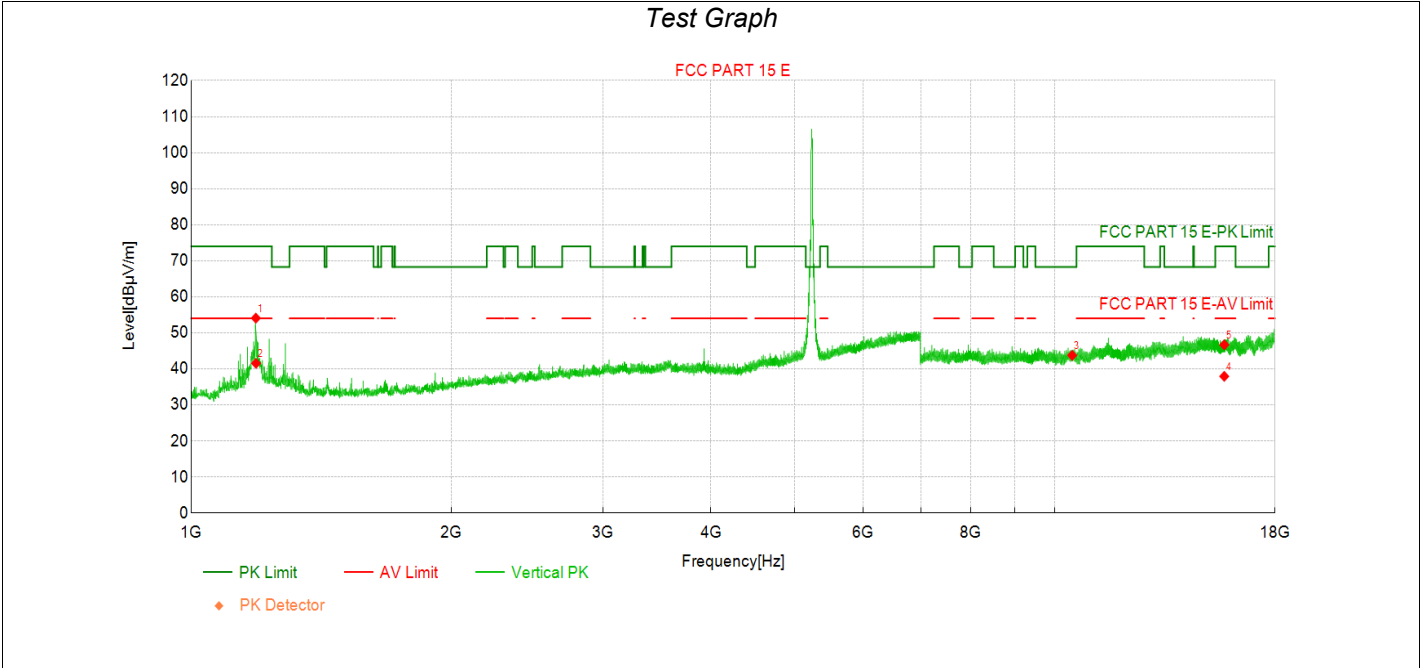
Transmit at 5240MHz by 802.11n(20MHz)



Data List

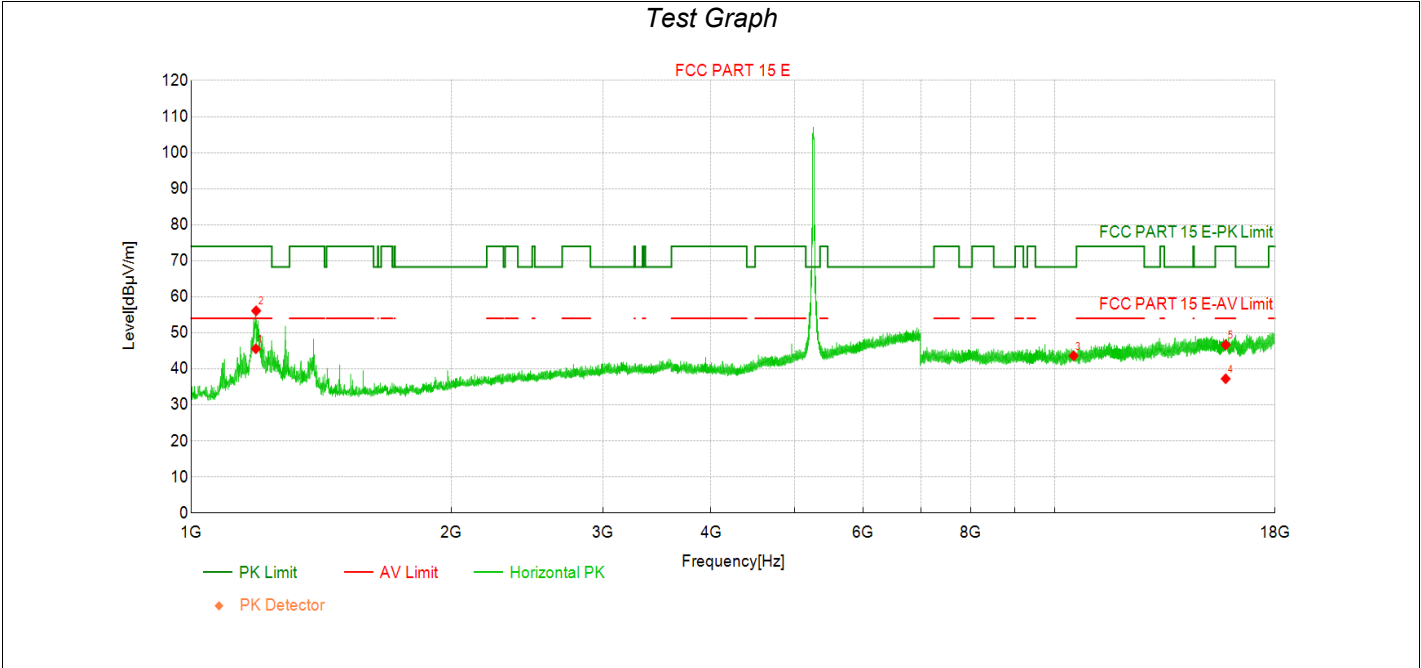
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1186.92	60.9	55.20	-5.740	74.00	18.80	PK	Horizo	PASS
2	1188.77	50.4	44.63	-5.730	54.00	9.37	AV	Horizo	PASS
3	10480.00	41.4	43.12	1.680	68.30	25.18	PK	Horizo	PASS
4	15720.00	27.8	37.25	9.500	54.00	16.75	AV	Horizo	PASS
5	15720.00	37.1	46.57	9.500	74.00	27.43	PK	Horizo	PASS

Transmit at 5240MHz by 802.11n(20MHz)



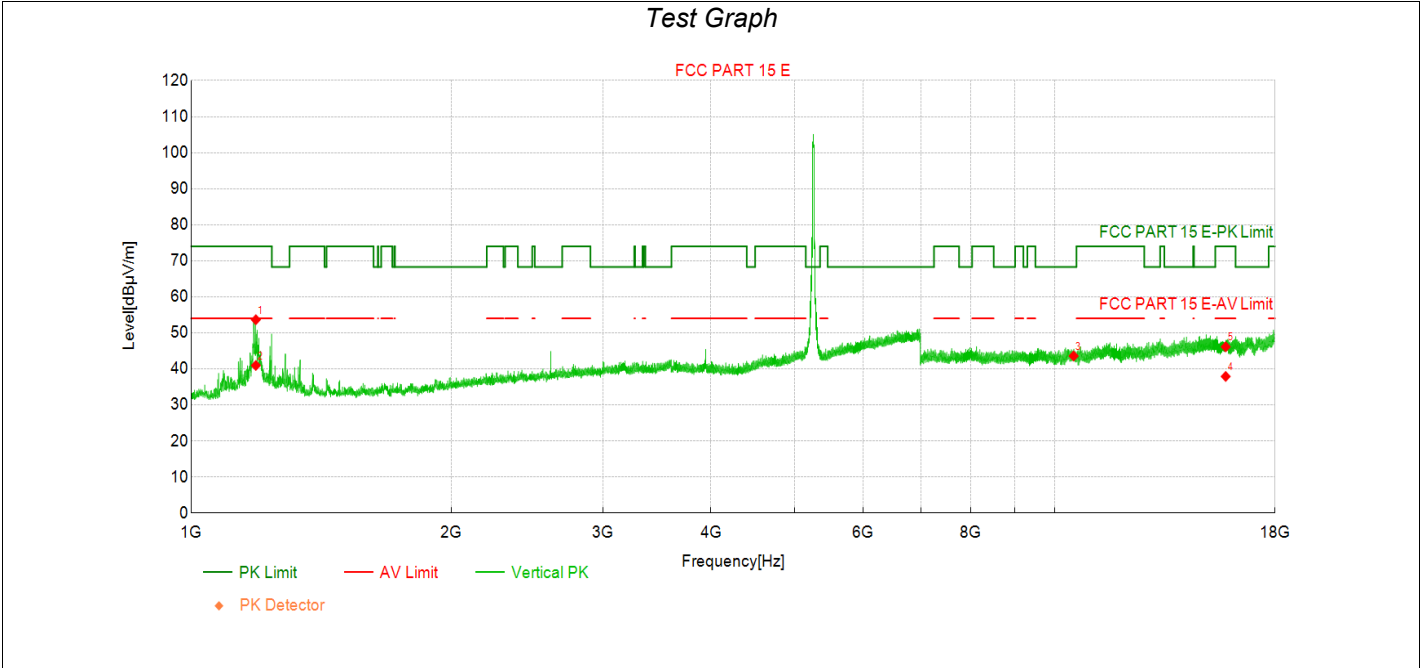
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.31	59.8	54.09	-5.740	74.00	19.91	PK	Vertic	PASS
2	1188.77	47.3	41.53	-5.730	54.00	12.47	AV	Vertic	PASS
3	10480.00	42.1	43.77	1.680	68.30	24.53	PK	Vertic	PASS
4	15720.00	28.4	37.94	9.500	54.00	16.06	AV	Vertic	PASS
5	15720.00	37.2	46.69	9.500	74.00	27.31	PK	Vertic	PASS

Transmit at 5260MHz by 802.11n(20MHz)



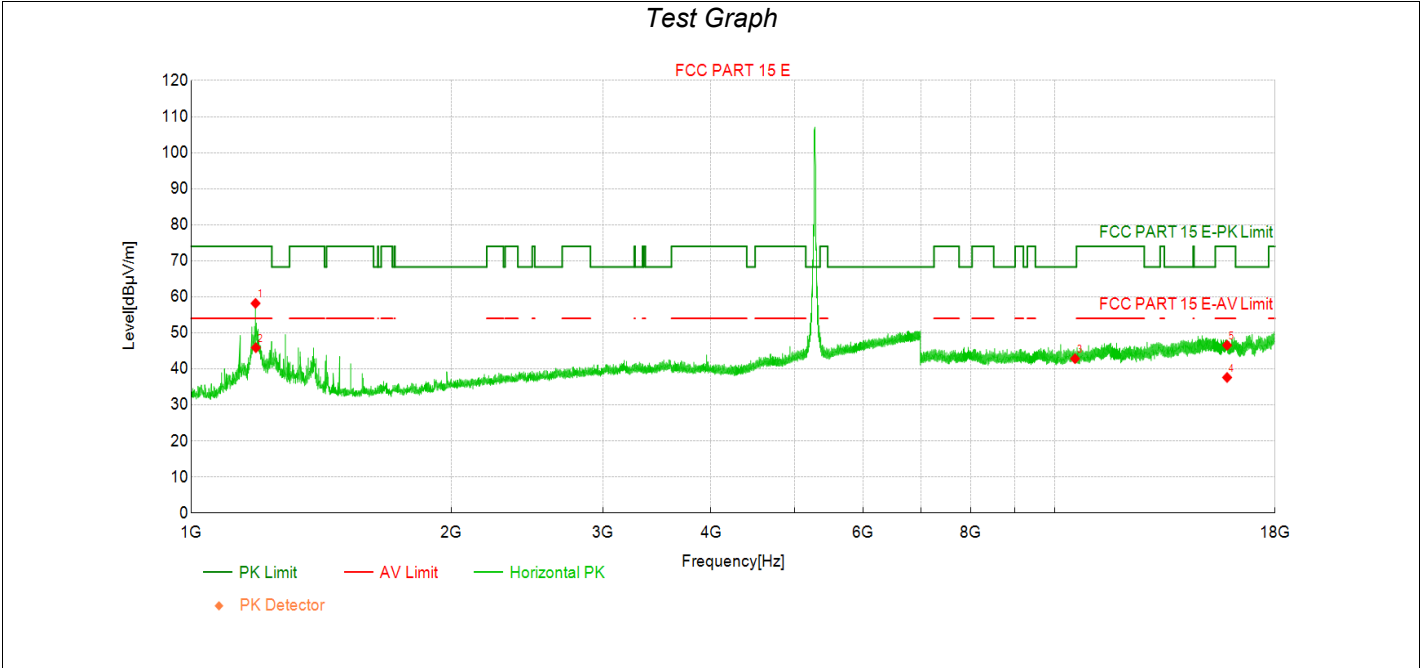
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.31	51.3	45.59	-5.740	54.00	8.41	AV	Horizo	PASS
2	1189.23	61.9	56.13	-5.730	74.00	17.87	PK	Horizo	PASS
3	10520.00	42.0	43.65	1.690	68.30	24.65	PK	Horizo	PASS
4	15780.00	27.9	37.26	9.330	54.00	16.74	AV	Horizo	PASS
5	15780.00	37.3	46.66	9.330	74.00	27.34	PK	Horizo	PASS

Transmit at 5260MHz by 802.11n(20MHz)



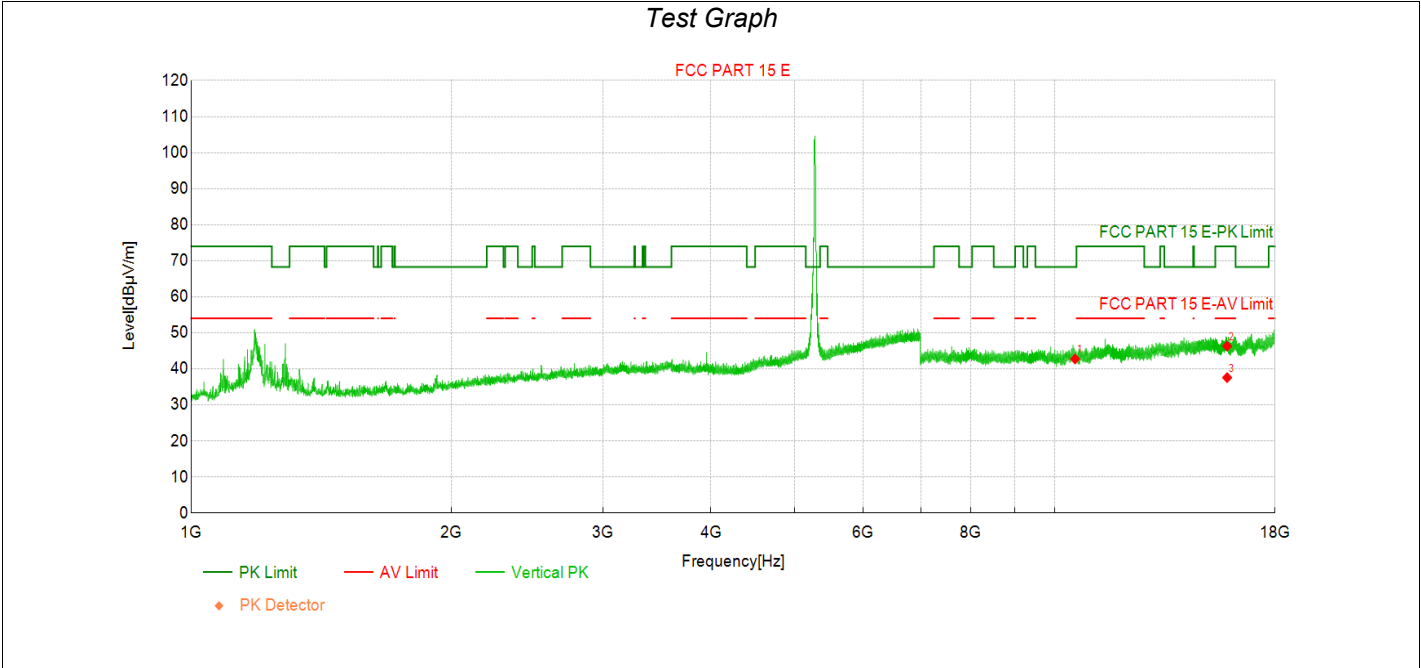
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.31	59.4	53.65	-5.740	74.00	20.35	PK	Vertic	PASS
2	1188.31	46.7	40.96	-5.740	54.00	13.04	AV	Vertic	PASS
3	10520.00	41.9	43.58	1.690	68.30	24.72	PK	Vertic	PASS
4	15780.00	28.6	37.91	9.330	54.00	16.09	AV	Vertic	PASS
5	15780.00	36.8	46.14	9.330	74.00	27.86	PK	Vertic	PASS

Transmit at 5280MHz by 802.11n(20MHz)



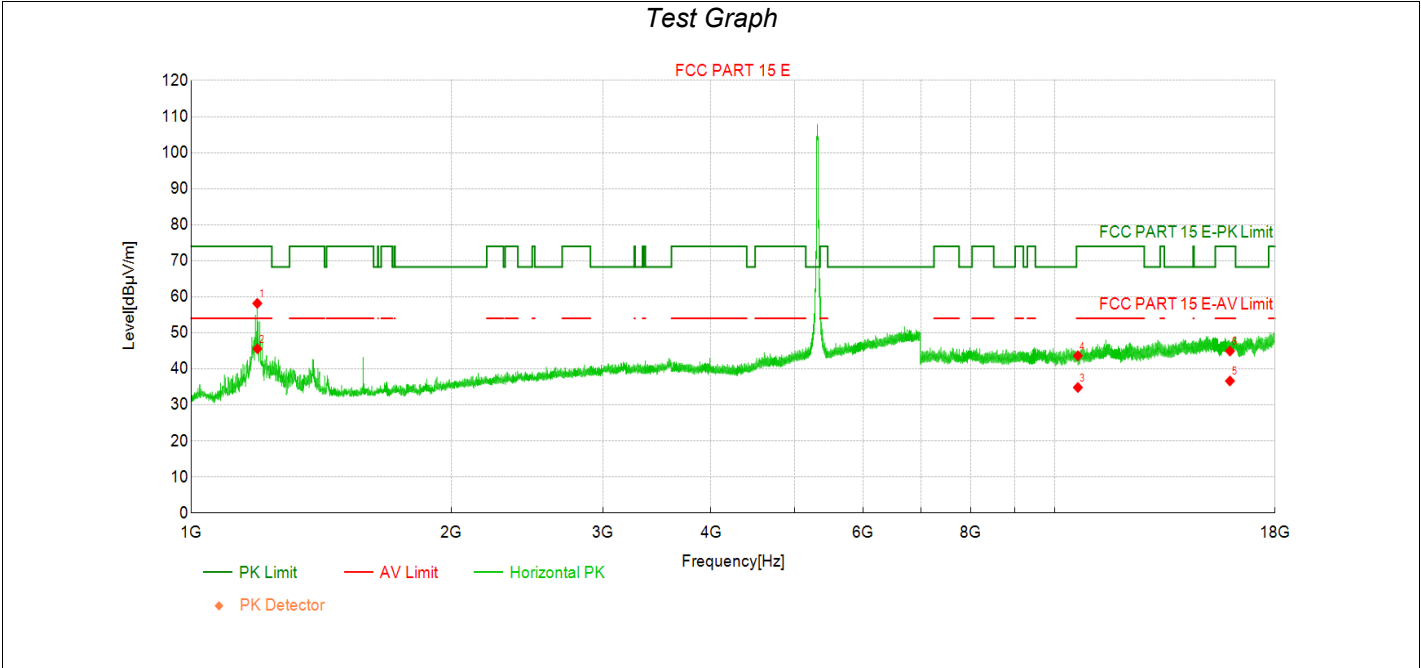
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.38	63.9	58.19	-5.740	74.00	15.81	PK	Horizo	PASS
2	1188.31	51.6	45.88	-5.740	54.00	8.12	AV	Horizo	PASS
3	10560.00	41.2	42.83	1.630	68.30	25.47	PK	Horizo	PASS
4	15840.00	28.3	37.61	9.280	54.00	16.39	AV	Horizo	PASS
5	15840.00	37.3	46.56	9.280	74.00	27.44	PK	Horizo	PASS

Transmit at 5280MHz by 802.11n(20MHz)



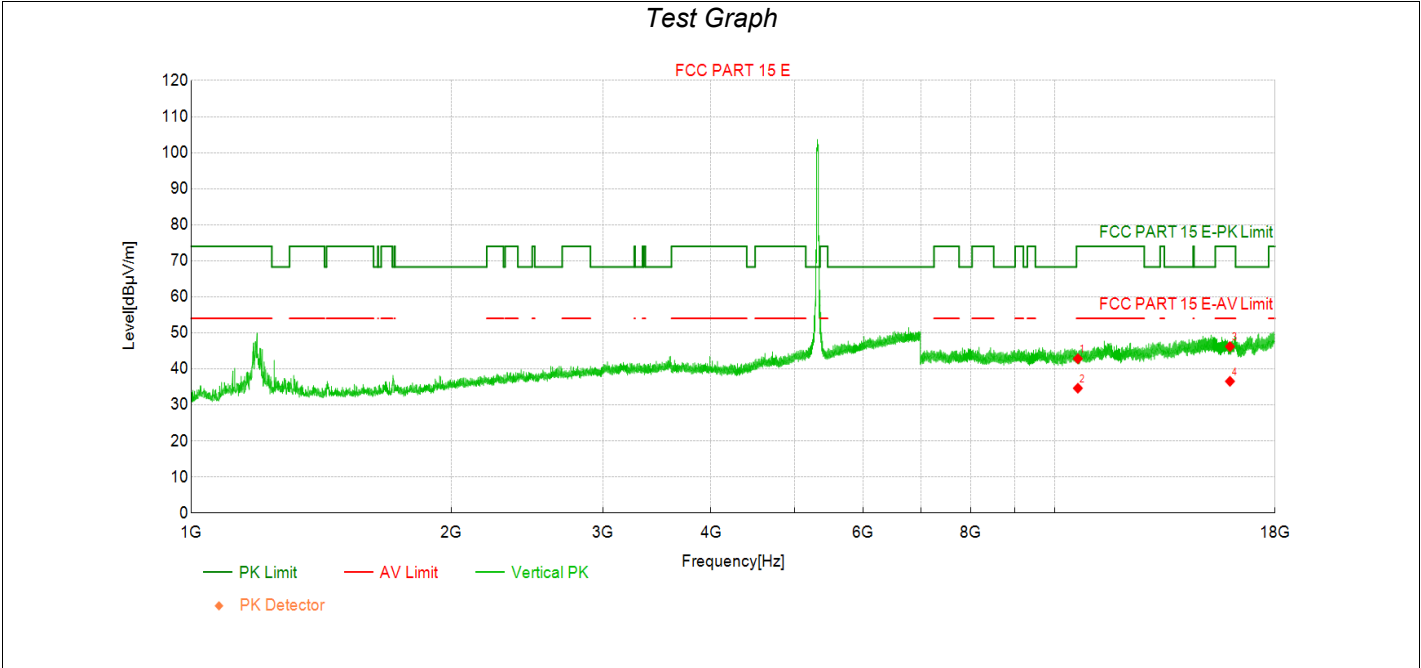
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.00	41.1	42.76	1.630	68.30	25.54	PK	Vertic	PASS
2	15840.00	37.0	46.31	9.280	74.00	27.69	PK	Vertic	PASS
3	15840.00	28.3	37.58	9.280	54.00	16.42	AV	Vertic	PASS

Transmit at 5320MHz by 802.11n(20MHz)



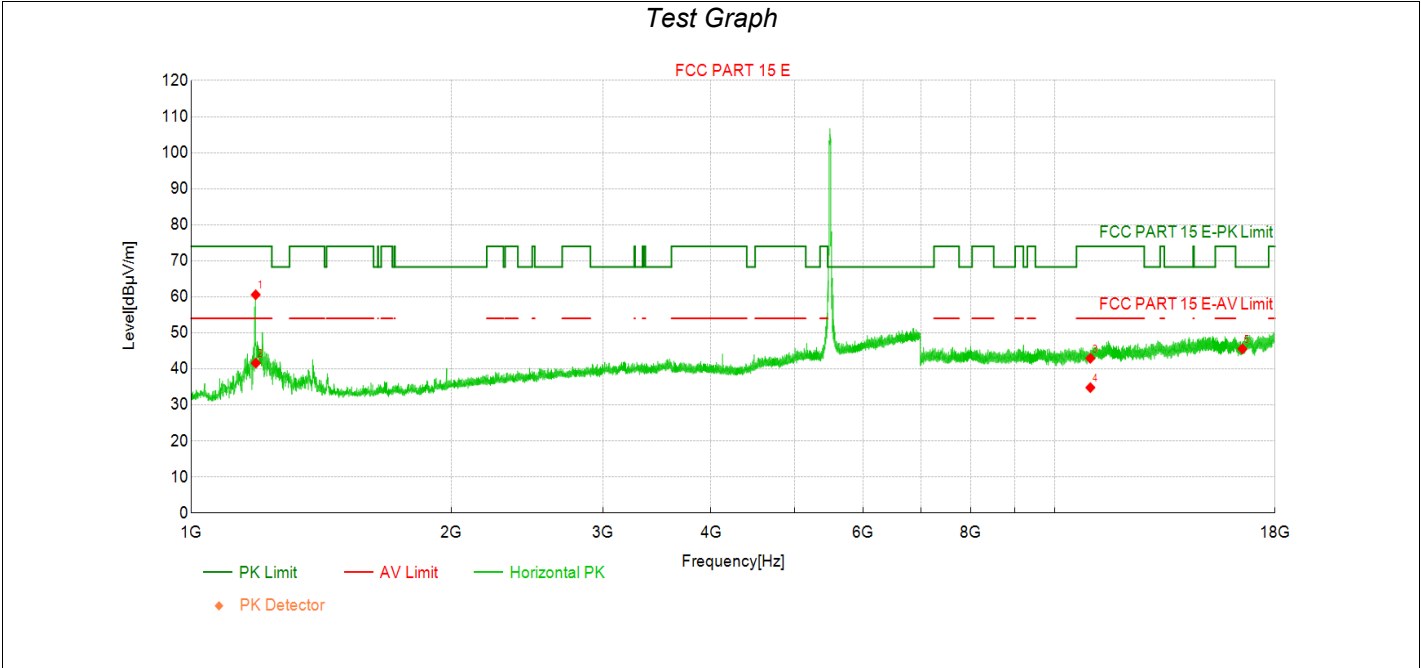
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1192.92	63.9	58.18	-5.710	74.00	15.82	PK	Horizo	PASS
2	1193.38	51.3	45.57	-5.710	54.00	8.43	AV	Horizo	PASS
3	10640.00	33.1	34.85	1.800	54.00	19.15	AV	Horizo	PASS
4	10640.00	41.9	43.65	1.800	74.00	30.35	PK	Horizo	PASS
5	15960.00	27.1	36.65	9.590	54.00	17.35	AV	Horizo	PASS
6	15960.00	35.4	44.94	9.590	74.00	29.06	PK	Horizo	PASS

Transmit at 5320MHz by 802.11n(20MHz)



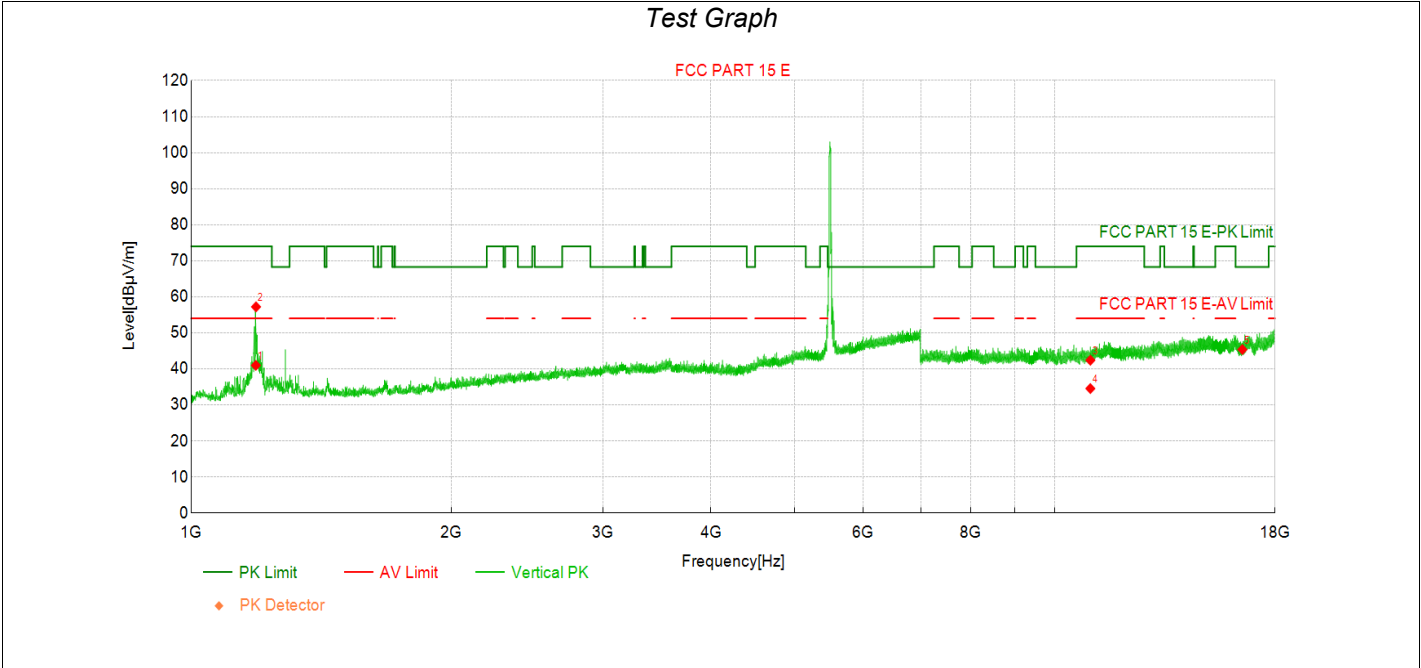
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10640.00	41.0	42.83	1.800	74.00	31.17	PK	Vertic	PASS
2	10640.00	32.8	34.64	1.800	54.00	19.36	AV	Vertic	PASS
3	15960.00	36.6	46.20	9.590	74.00	27.80	PK	Vertic	PASS
4	15960.00	27.0	36.55	9.590	54.00	17.45	AV	Vertic	PASS

Transmit at 5500MHz by 802.11n(20MHz)



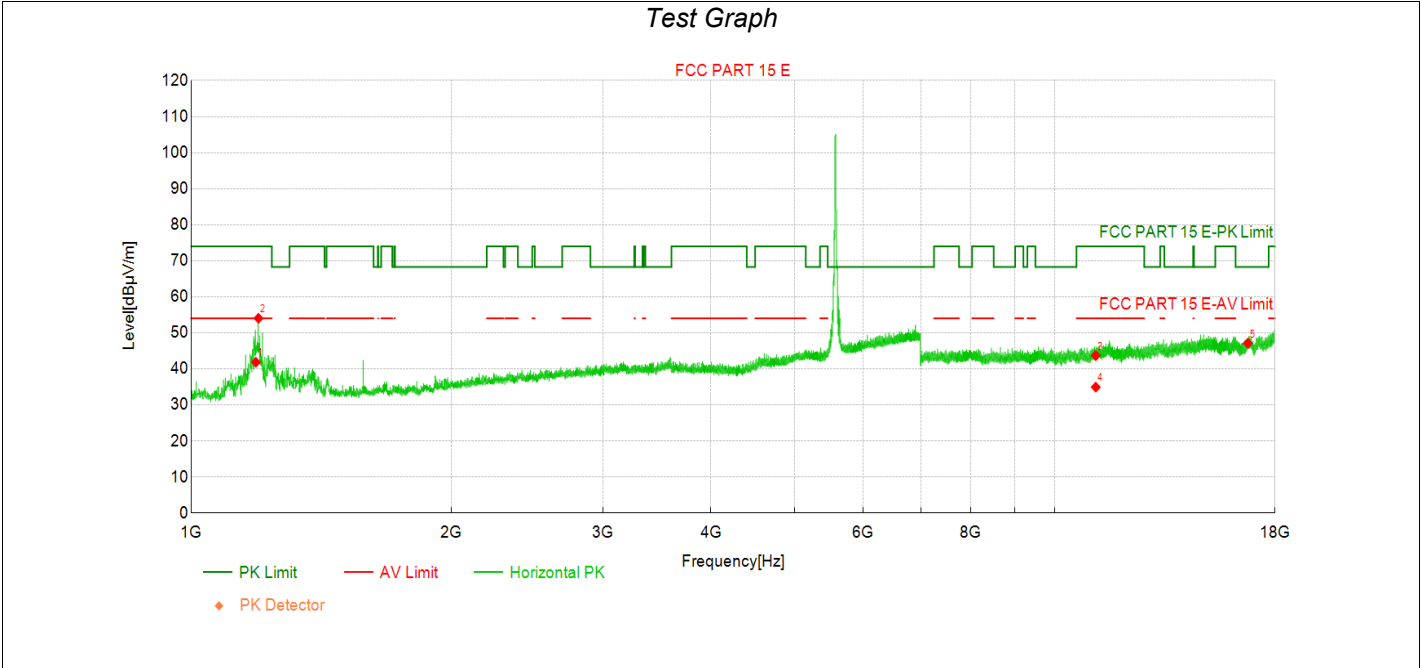
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.85	66.3	60.58	-5.740	74.00	13.42	PK	Horizo	PASS
2	1188.31	47.3	41.60	-5.740	54.00	12.40	AV	Horizo	PASS
3	11000.00	40.9	42.93	2.020	74.00	31.07	PK	Horizo	PASS
4	11000.00	32.8	34.80	2.020	54.00	19.20	AV	Horizo	PASS
5	16500.00	36.1	45.56	9.470	68.30	22.74	PK	Horizo	PASS

Transmit at 5500MHz by 802.11n(20MHz)



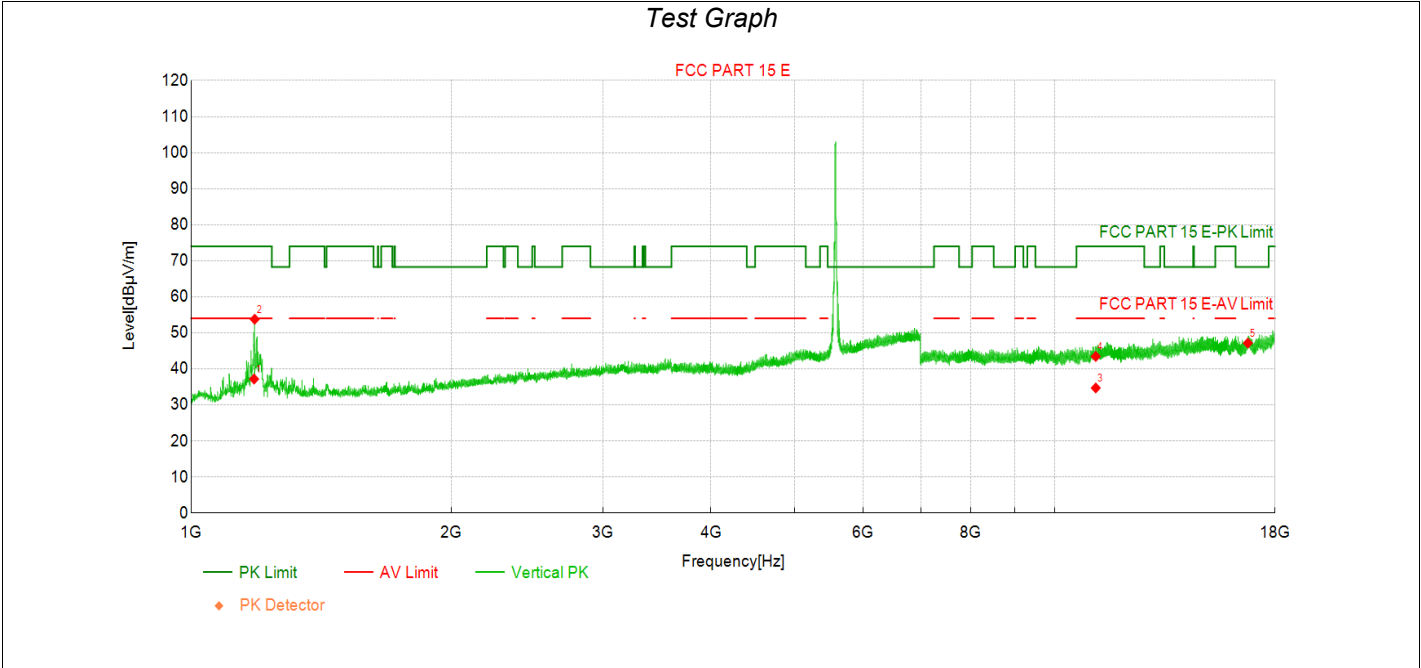
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.31	46.7	40.99	-5.740	54.00	13.01	AV	Vertic	PASS
2	1188.77	63.0	57.22	-5.730	74.00	16.78	PK	Vertic	PASS
3	11000.00	40.4	42.41	2.020	74.00	31.59	PK	Vertic	PASS
4	11000.00	32.5	34.55	2.020	54.00	19.45	AV	Vertic	PASS
5	16500.00	35.9	45.38	9.470	68.30	22.92	PK	Vertic	PASS

Transmit at 5580MHz by 802.11n(20MHz)



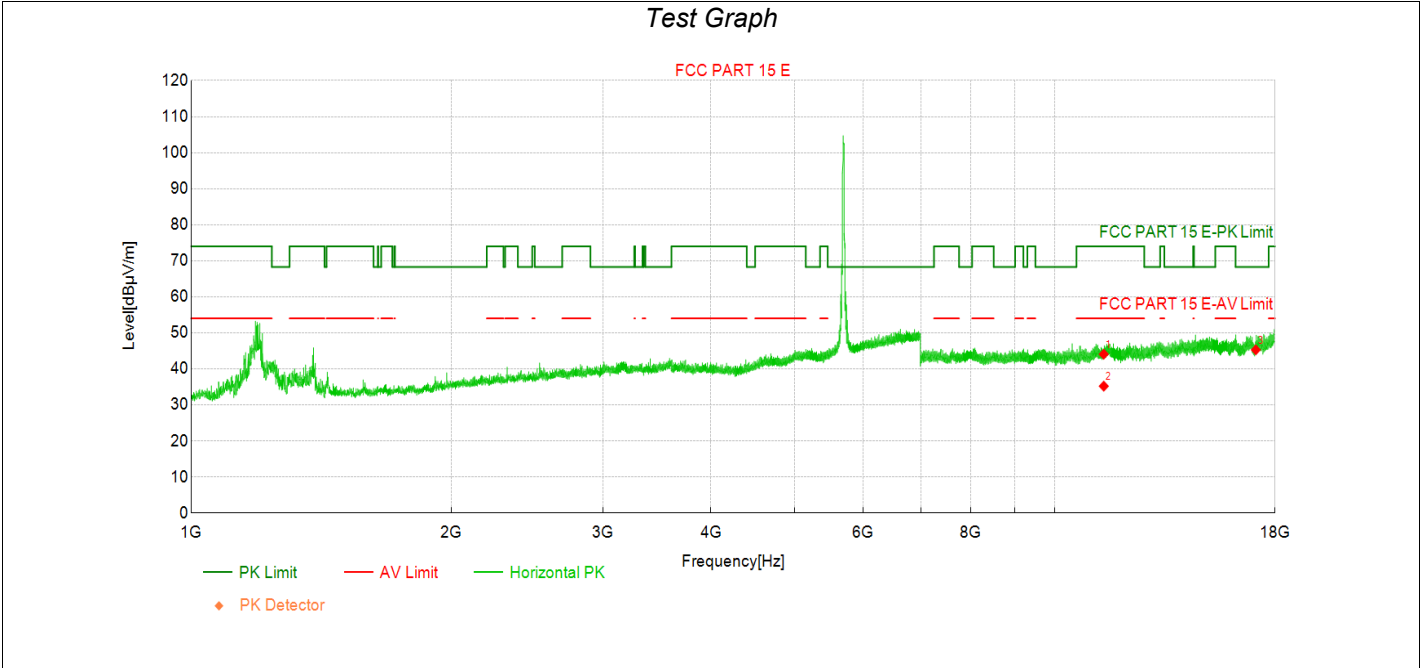
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.31	47.6	41.85	-5.740	54.00	12.15	AV	Horizo	PASS
2	1196.62	59.7	54.04	-5.690	74.00	19.96	PK	Horizo	PASS
3	11160.00	39.9	43.69	3.750	74.00	30.31	PK	Horizo	PASS
4	11160.00	31.2	34.94	3.750	54.00	19.06	AV	Horizo	PASS
5	16740.00	37.1	47.09	9.950	68.30	21.21	PK	Horizo	PASS

Transmit at 5580MHz by 802.11n(20MHz)



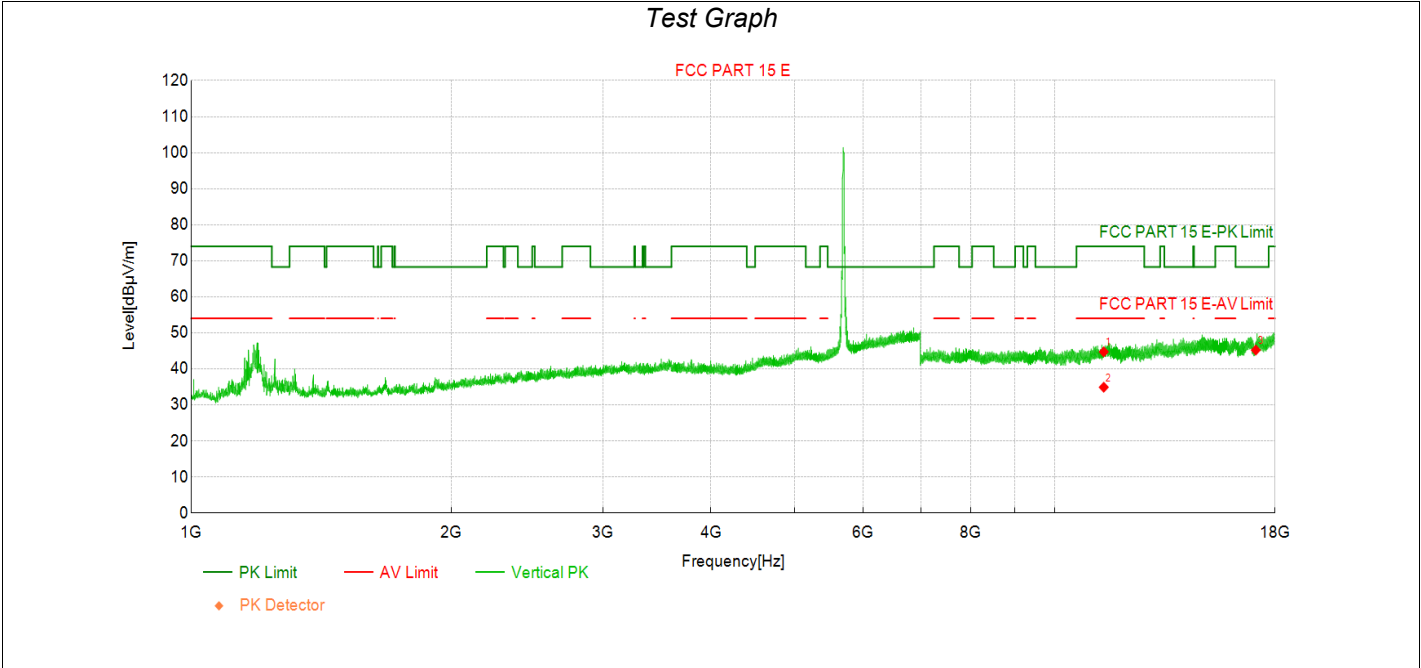
Data List									
NO	Freque ncy [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	1182.77	43.0	37.19	-5.770	54.00	16.81	AV	Vertic	PASS
2	1184.62	59.5	53.78	-5.760	74.00	20.22	PK	Vertic	PASS
3	11160.00	31.0	34.72	3.750	54.00	19.28	AV	Vertic	PASS
4	11160.00	39.7	43.46	3.750	74.00	30.54	PK	Vertic	PASS
5	16740.00	37.2	47.17	9.950	68.30	21.13	PK	Vertic	PASS

Transmit at 5700MHz 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	11400.00	40.0	44.08	4.080	74.00	29.92	PK	Horizo	PASS
2	11400.00	31.1	35.21	4.080	54.00	18.79	AV	Horizo	PASS
3	17100.00	35.4	45.29	9.860	68.30	23.01	PK	Horizo	PASS

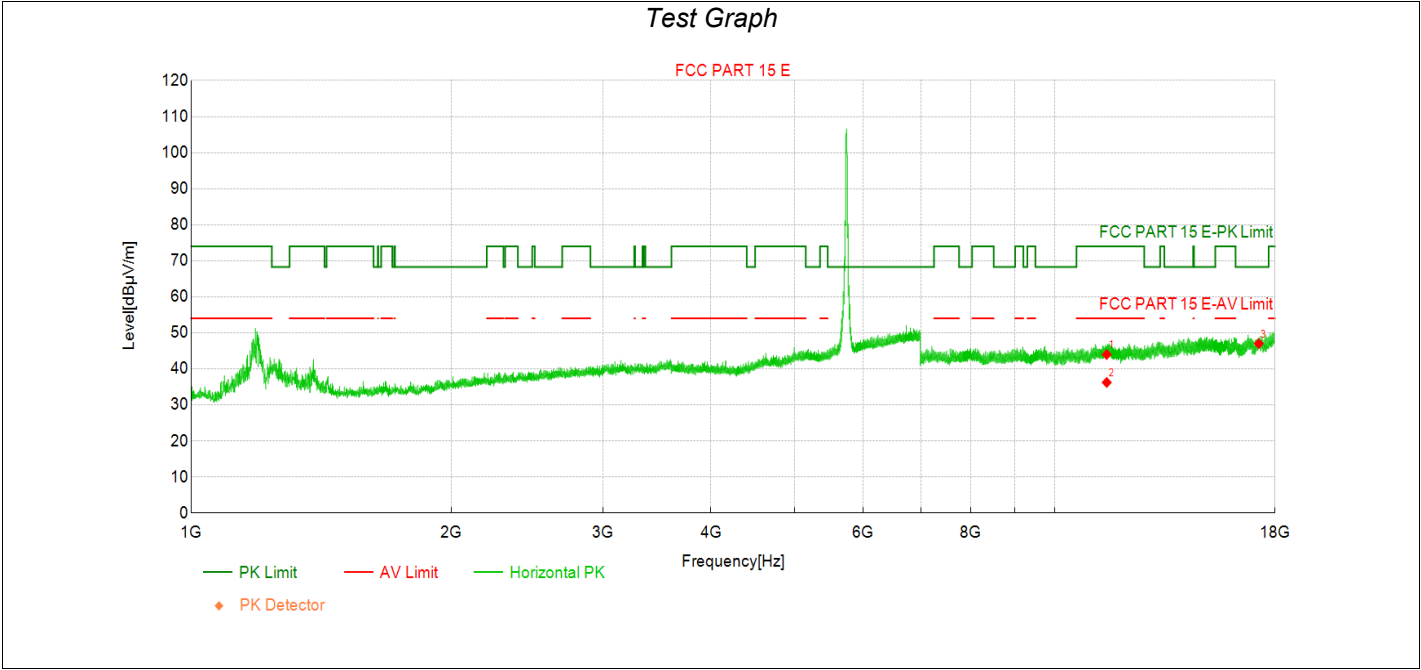
Transmit at 5700MHz by 802.11n(20MHz)



Data List

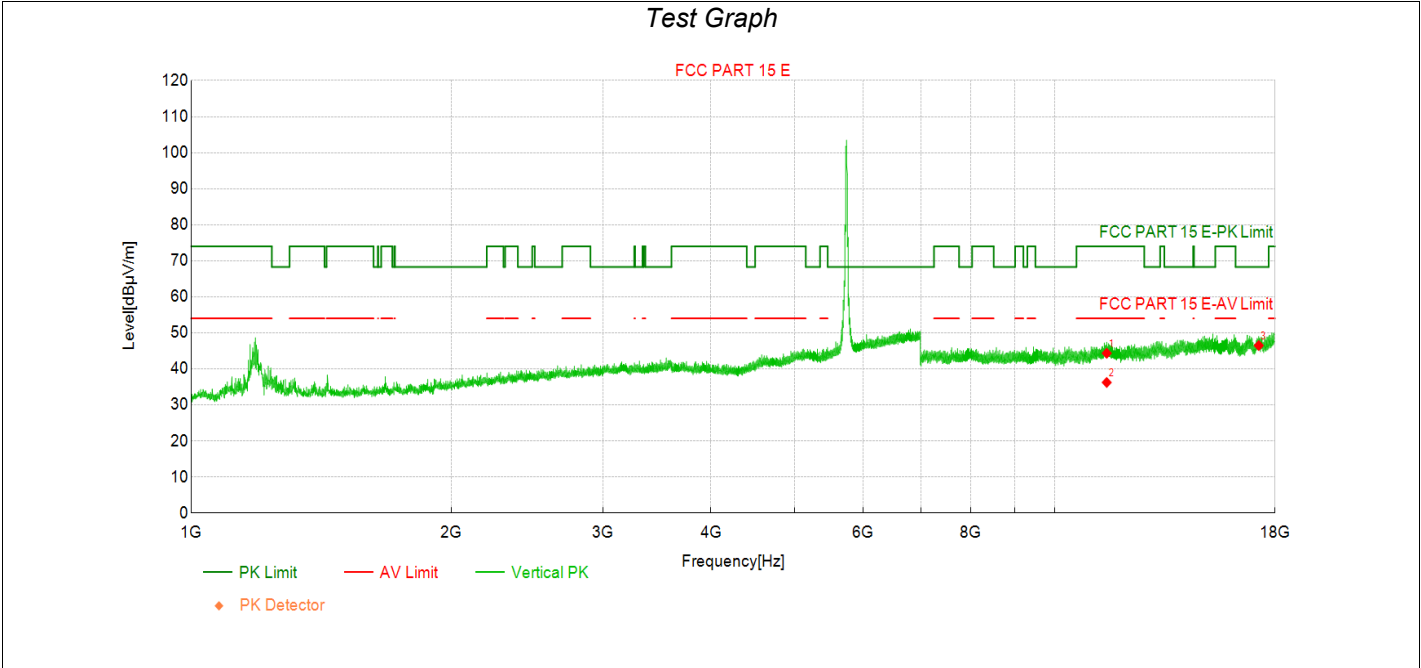
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	40.7	44.74	4.080	74.00	29.26	PK	Vertic	PASS
2	11400.00	30.8	34.91	4.080	54.00	19.09	AV	Vertic	PASS
3	17100.00	35.4	45.23	9.860	68.30	23.07	PK	Vertic	PASS

Transmit at 5745MHz by 802.11n(20MHz)



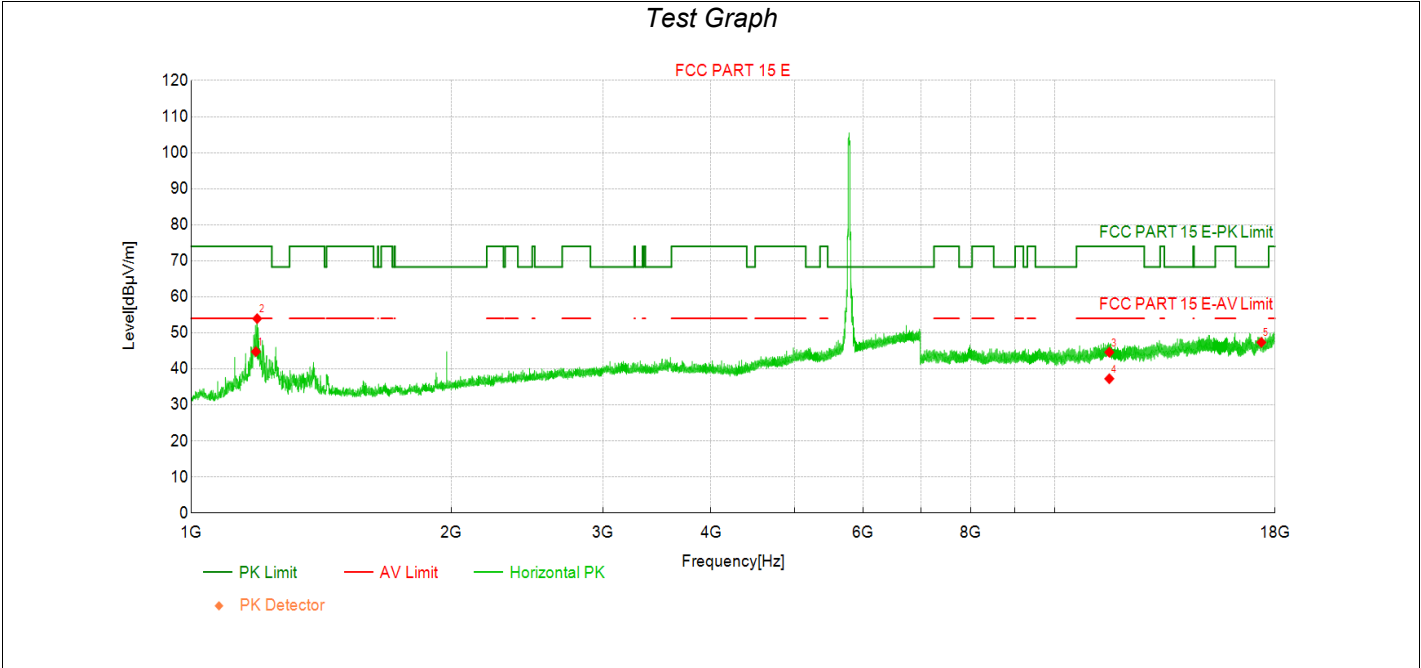
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	39.7	43.98	4.250	74.00	30.02	PK	Horizo	PASS
2	11490.00	32.0	36.24	4.250	54.00	17.76	AV	Horizo	PASS
3	17235.00	36.7	47.02	10.290	68.30	21.28	PK	Horizo	PASS

Transmit at 5745MHz by 802.11n(20MHz)



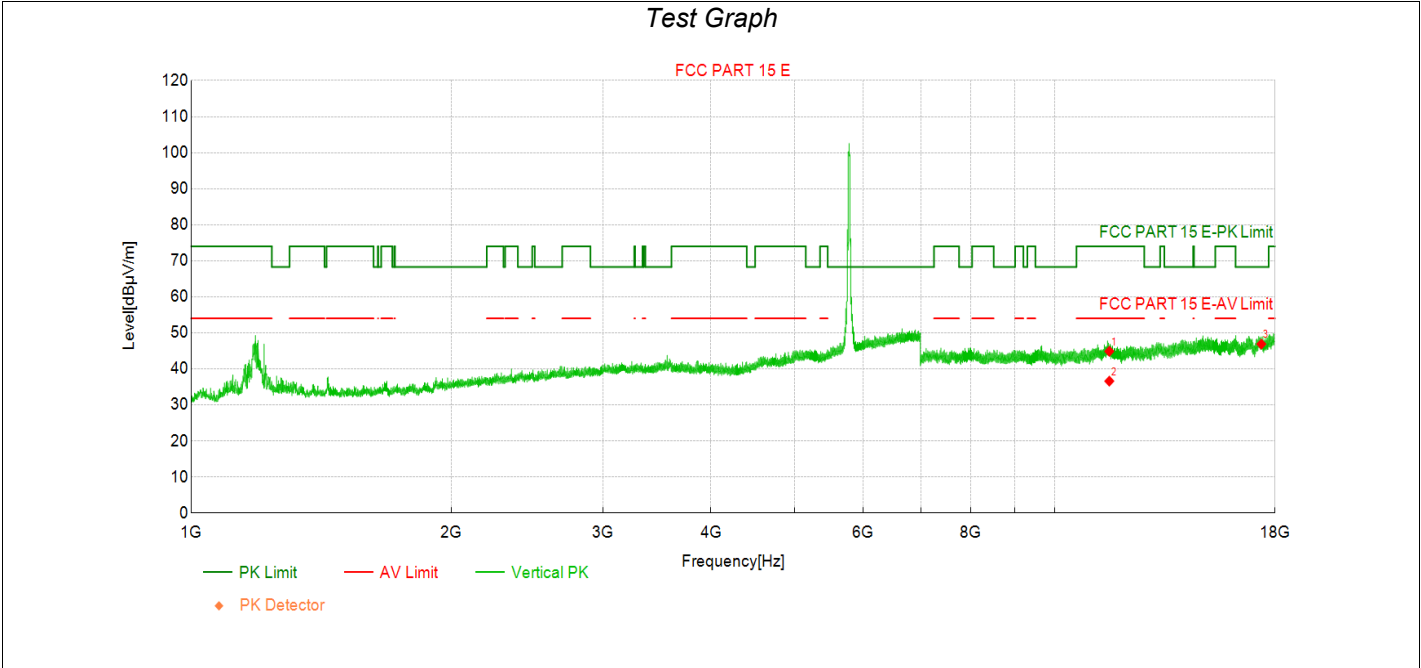
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	40.1	44.34	4.250	74.00	29.66	PK	Vertic	PASS
2	11490.00	32.0	36.24	4.250	54.00	17.76	AV	Vertic	PASS
3	17235.00	36.2	46.49	10.290	68.30	21.81	PK	Vertic	PASS

Transmit at 5785MHz by 802.11n(20MHz)



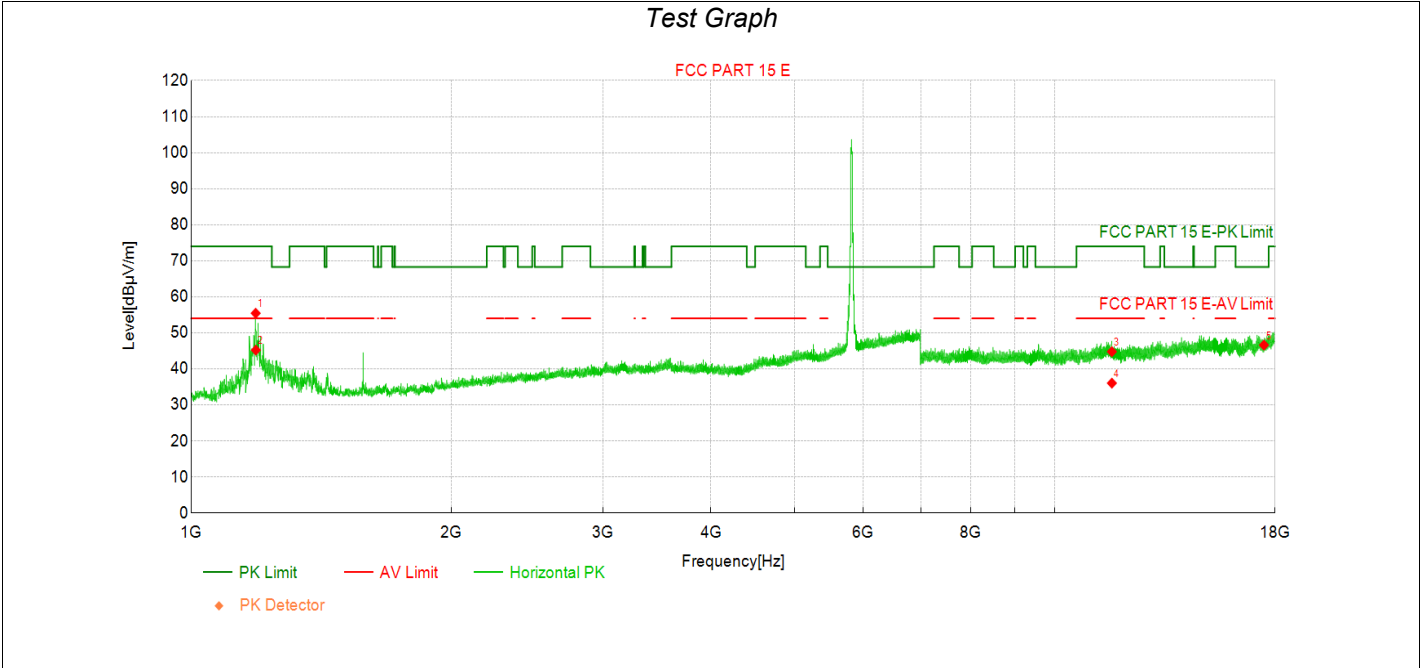
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.31	50.5	44.78	-5.740	54.00	9.22	AV	Horizo	PASS
2	1192.46	59.7	53.95	-5.710	74.00	20.05	PK	Horizo	PASS
3	11570.00	40.1	44.62	4.480	74.00	29.38	PK	Horizo	PASS
4	11570.00	32.8	37.27	4.480	54.00	16.73	AV	Horizo	PASS
5	17355.00	37.0	47.37	10.390	68.30	20.93	PK	Horizo	PASS

Transmit at 5785MHz by 802.11n(20MHz)



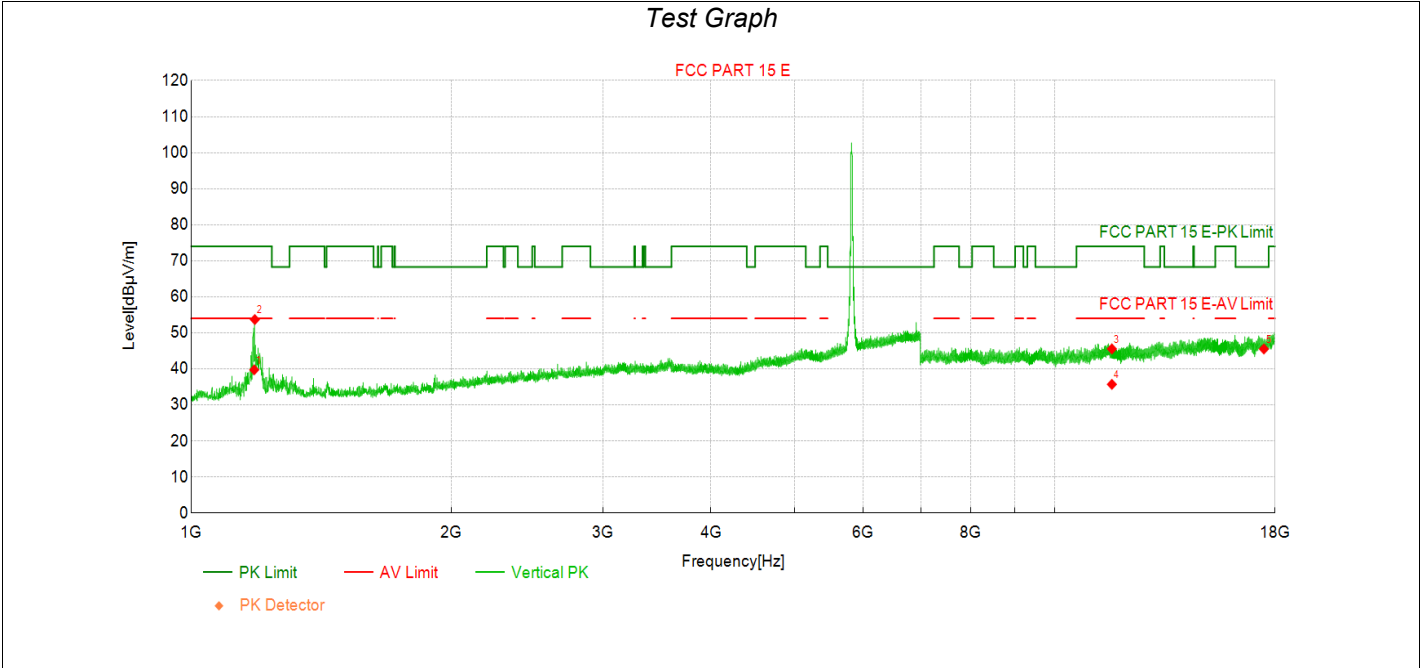
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	40.4	44.88	4.480	74.00	29.12	PK	Vertic	PASS
2	11570.00	32.1	36.60	4.480	54.00	17.40	AV	Vertic	PASS
3	17355.00	36.5	46.88	10.390	68.30	21.42	PK	Vertic	PASS

Transmit at 5825MHz by 802.11n(20MHz)



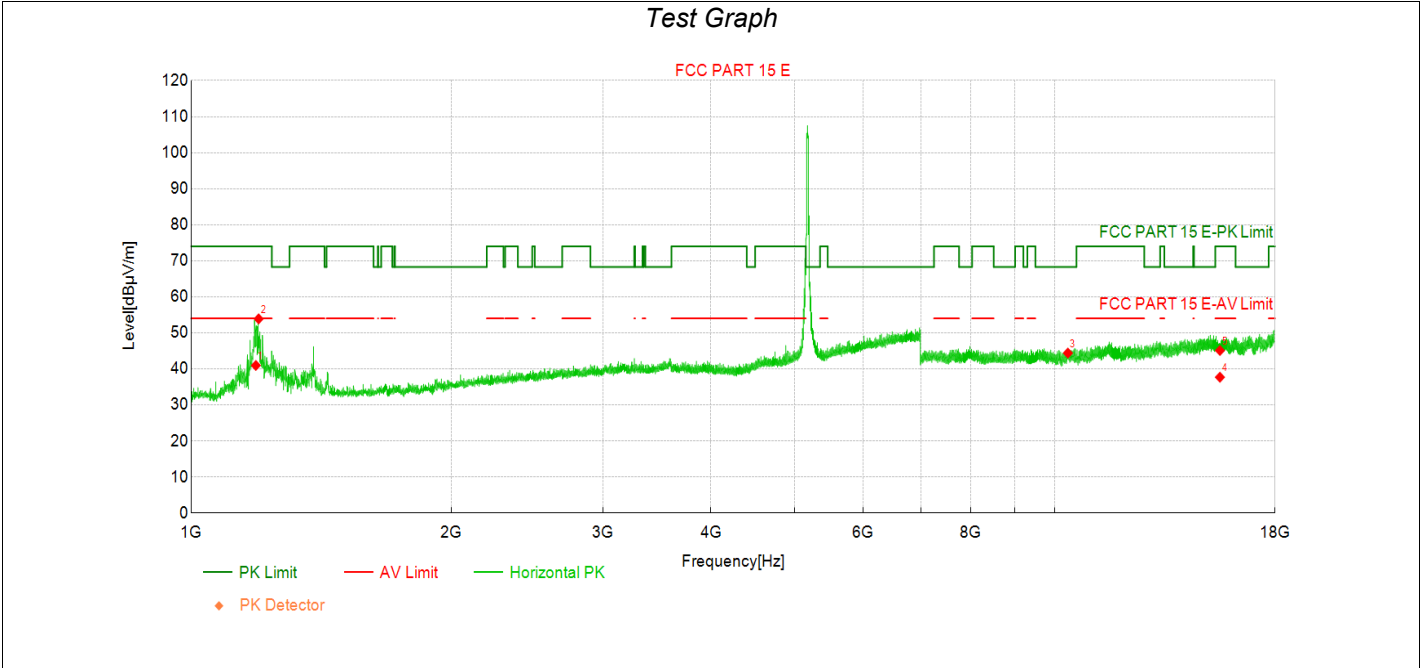
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.85	61.2	55.44	-5.740	74.00	18.56	PK	Horizo	PASS
2	1188.31	51.0	45.22	-5.740	54.00	8.78	AV	Horizo	PASS
3	11650.00	40.4	44.79	4.430	74.00	29.21	PK	Horizo	PASS
4	11650.00	31.6	36.04	4.430	54.00	17.96	AV	Horizo	PASS
5	17475.00	36.4	46.61	10.200	68.30	21.69	PK	Horizo	PASS

Transmit at 5825MHz by 802.11n(20MHz)



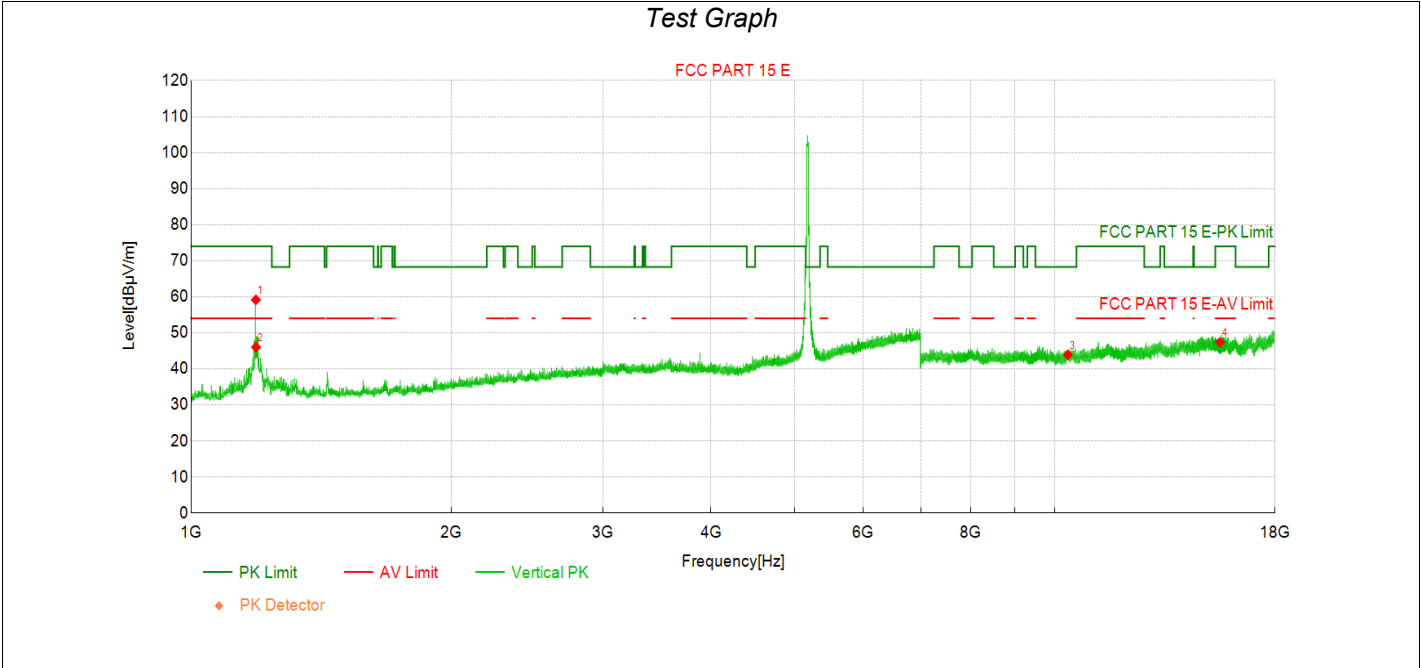
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1183.23	45.5	39.74	-5.770	54.00	14.26	AV	Vertic	PASS
2	1185.08	59.5	53.69	-5.760	74.00	20.31	PK	Vertic	PASS
3	11650.00	41.1	45.55	4.430	74.00	28.45	PK	Vertic	PASS
4	11650.00	31.3	35.71	4.430	54.00	18.29	AV	Vertic	PASS
5	17475.00	35.3	45.53	10.200	68.30	22.77	PK	Vertic	PASS

Transmit at 5180MHz by 802.11ac(20MHz)



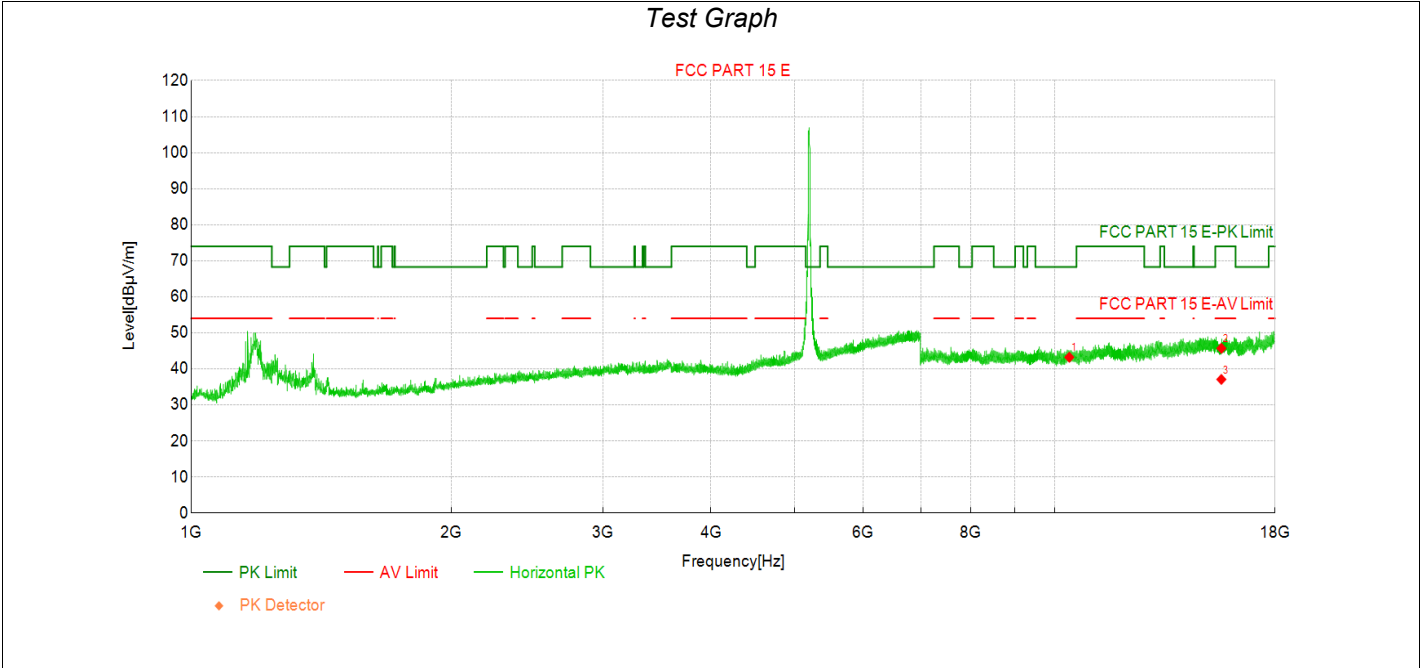
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.31	46.7	40.96	-5.740	54.00	13.04	AV	Horizo	PASS
2	1197.08	59.6	53.89	-5.690	74.00	20.11	PK	Horizo	PASS
3	10360.00	42.8	44.39	1.620	68.30	23.91	PK	Horizo	PASS
4	15540.00	28.6	37.69	9.100	54.00	16.31	AV	Horizo	PASS
5	15540.00	36.0	45.10	9.100	74.00	28.90	PK	Horizo	PASS

Transmit at 5180MHz by 802.11ac(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.31	64.9	59.16	-5.740	74.00	14.84	PK	Vertic	PASS
2	1188.77	51.7	46.01	-5.730	54.00	7.99	AV	Vertic	PASS
3	10360.00	42.3	43.89	1.620	68.30	24.41	PK	Vertic	PASS
4	15540.00	38.3	47.38	9.100	74.00	26.62	PK	Vertic	PASS

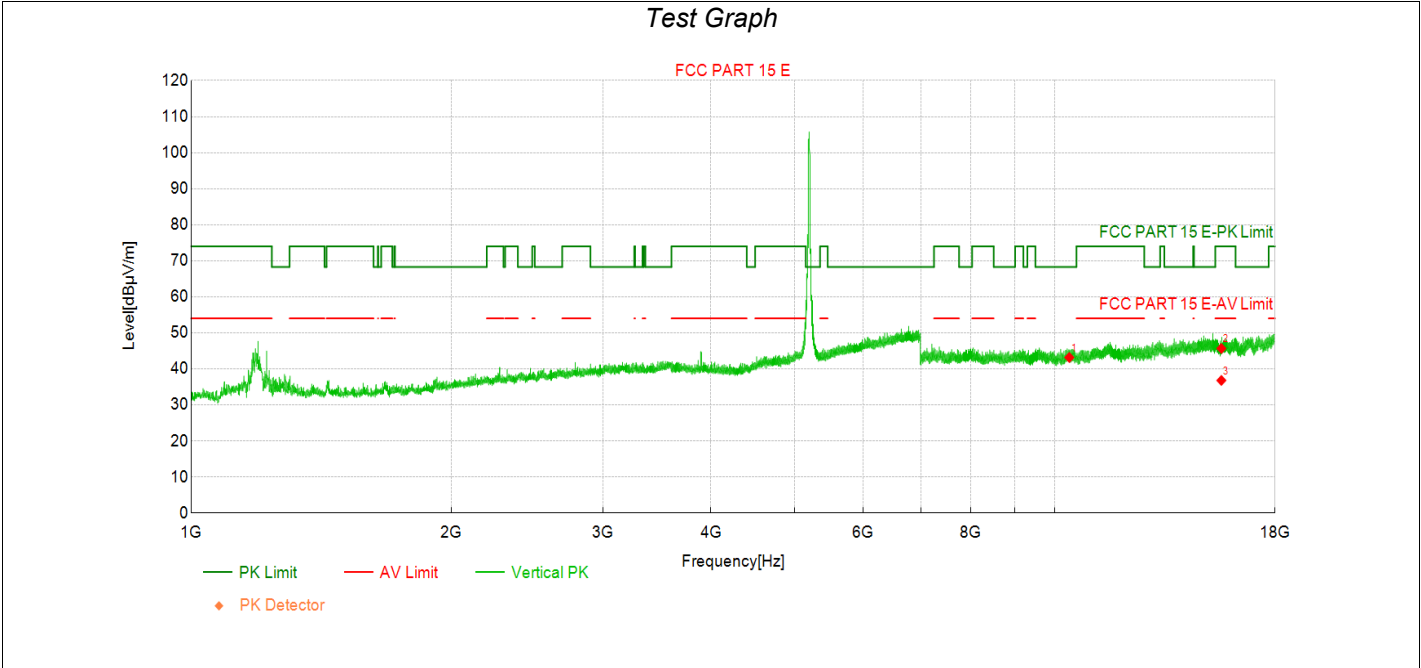
Transmit at 5200MHz by 802.11ac(20MHz)



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	41.7	43.23	1.550	68.30	25.07	PK	Horizo	PASS
2	15600.00	36.4	45.71	9.310	74.00	28.29	PK	Horizo	PASS
3	15600.00	27.8	37.08	9.310	54.00	16.92	AV	Horizo	PASS

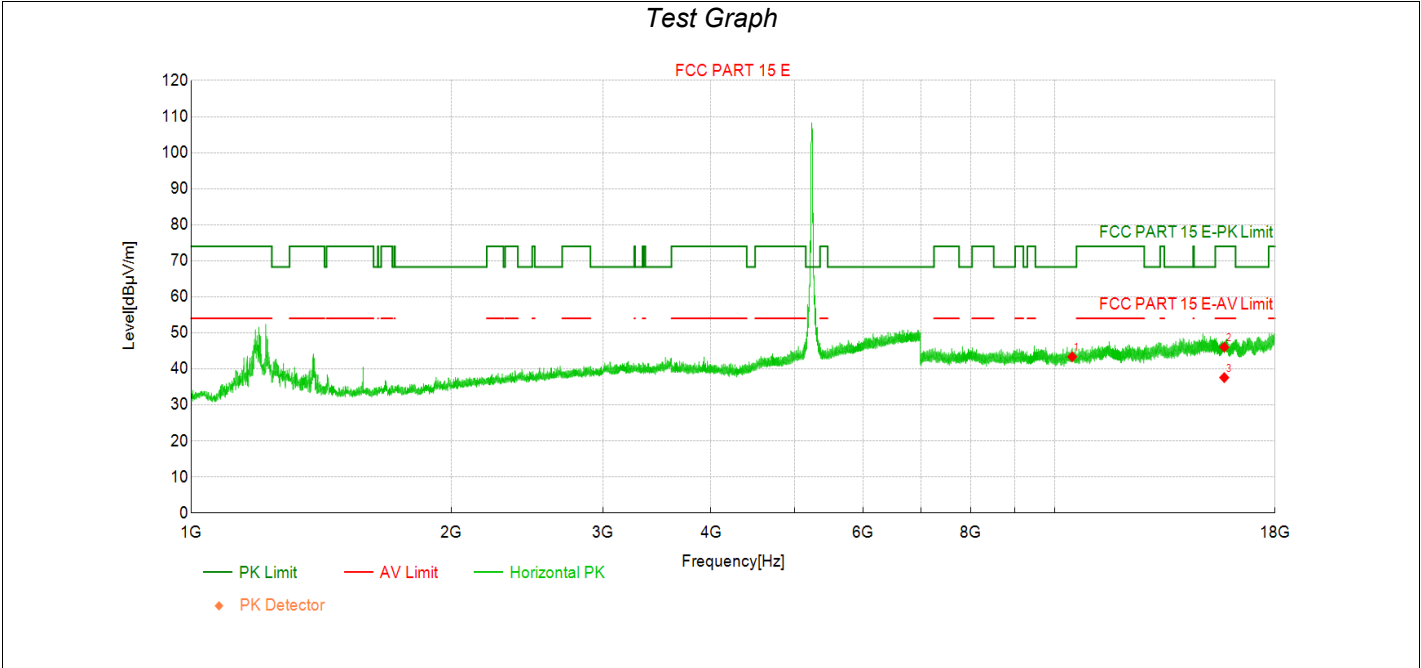
Transmit at 5200MHz by 802.11ac(20MHz)



Data List

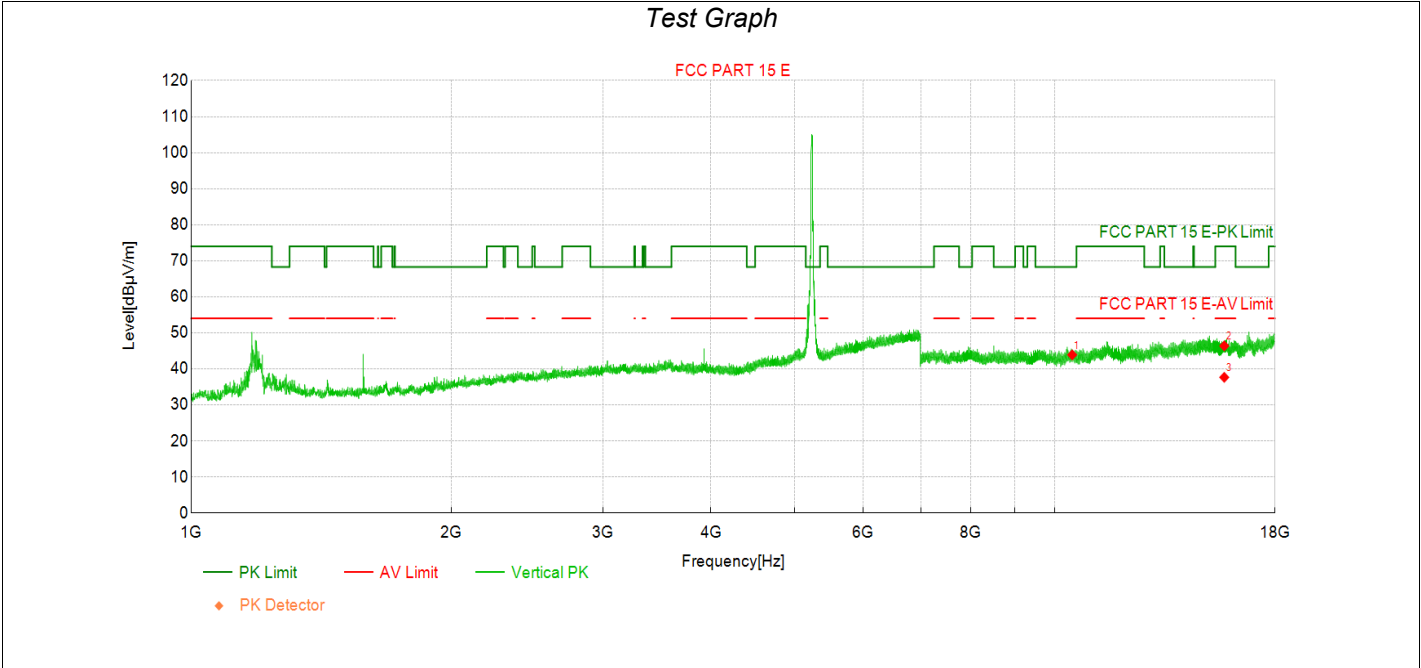
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	41.6	43.17	1.550	68.30	25.13	PK	Vertic	PASS
2	15600.00	36.4	45.67	9.310	74.00	28.33	PK	Vertic	PASS
3	15600.00	27.5	36.80	9.310	54.00	17.20	AV	Vertic	PASS

Transmit at 5240MHz by 802.11ac(20MHz)



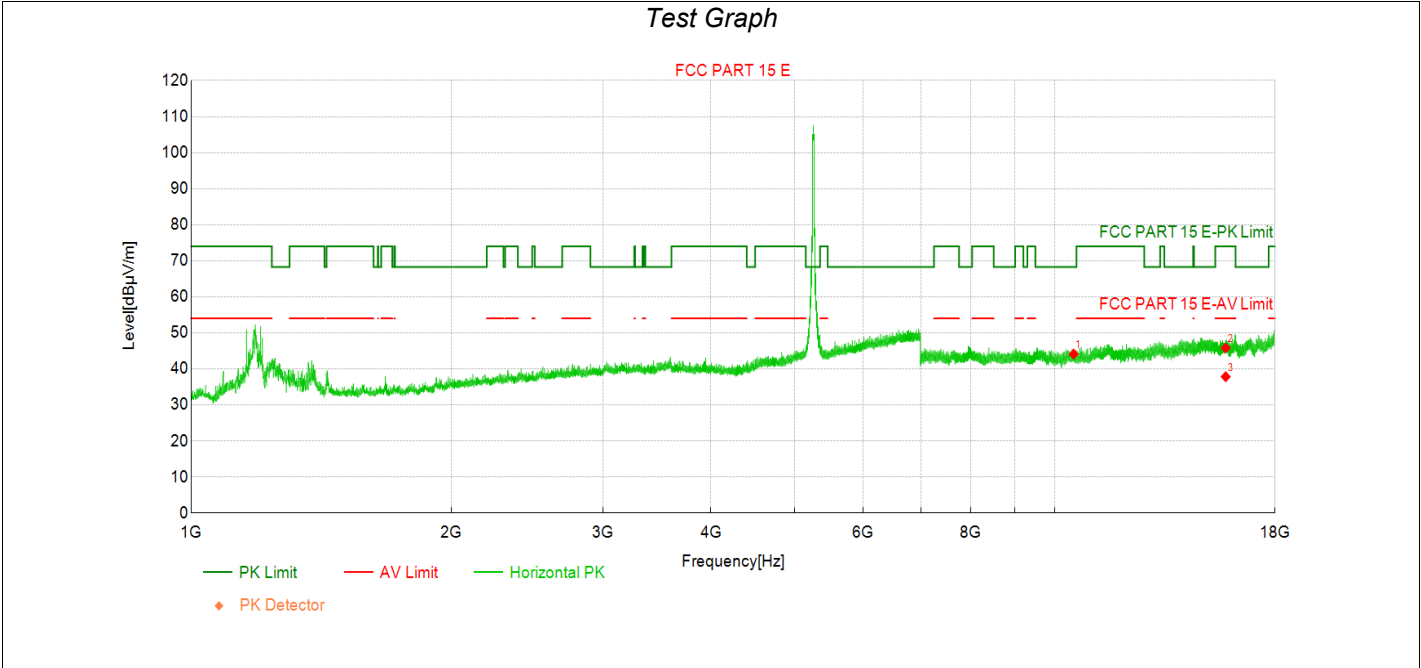
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10480.00	41.7	43.35	1.680	68.30	24.95	PK	Horizo	PASS
2	15720.00	36.5	46.03	9.500	74.00	27.97	PK	Horizo	PASS
3	15720.00	28.1	37.58	9.500	54.00	16.42	AV	Horizo	PASS

Transmit at 5240MHz by 802.11ac(20MHz)



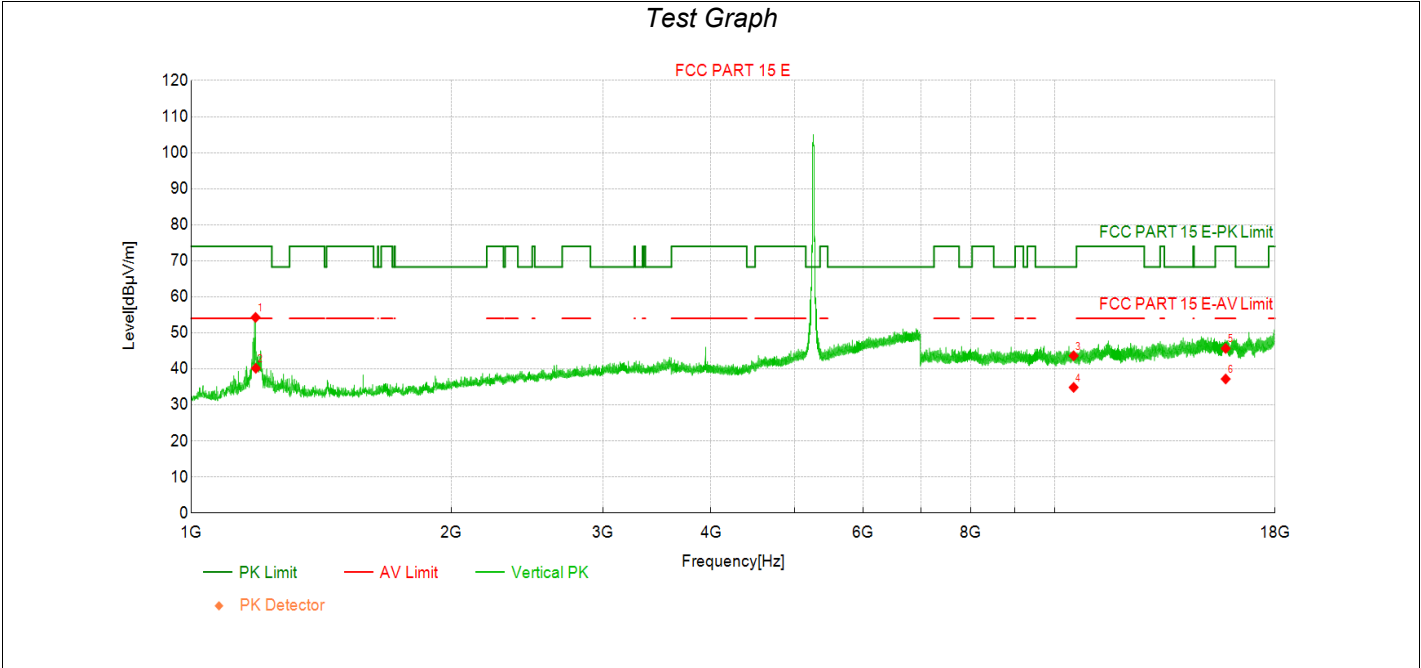
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10480.00	42.2	43.90	1.680	68.30	24.40	PK	Vertic	PASS
2	15720.00	36.9	46.38	9.500	74.00	27.62	PK	Vertic	PASS
3	15720.00	28.2	37.66	9.500	54.00	16.34	AV	Vertic	PASS

Transmit at 5260MHz by 802.11ac(20MHz)



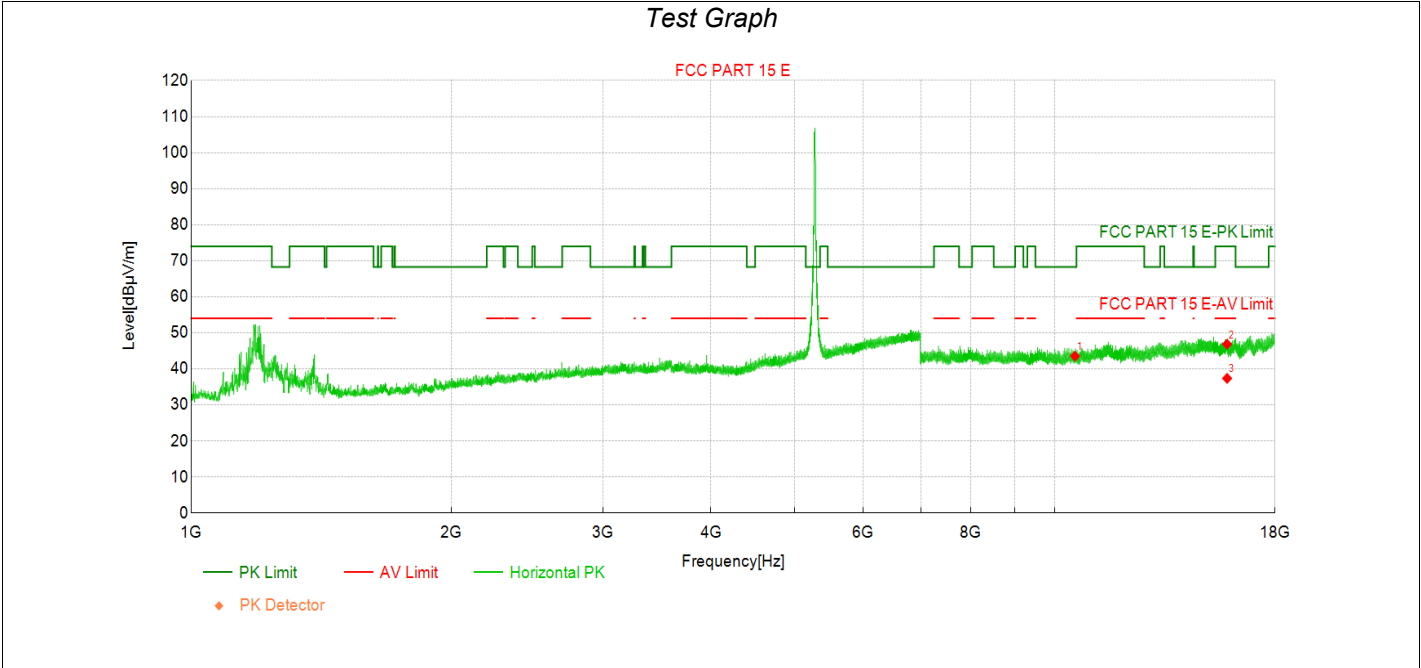
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10520.00	42.4	44.12	1.690	68.30	24.18	PK	Horizo	PASS
2	15780.00	36.5	45.78	9.330	74.00	28.22	PK	Horizo	PASS
3	15780.00	28.5	37.83	9.330	54.00	16.17	AV	Horizo	PASS

Transmit at 5260MHz by 802.11ac(20MHz)



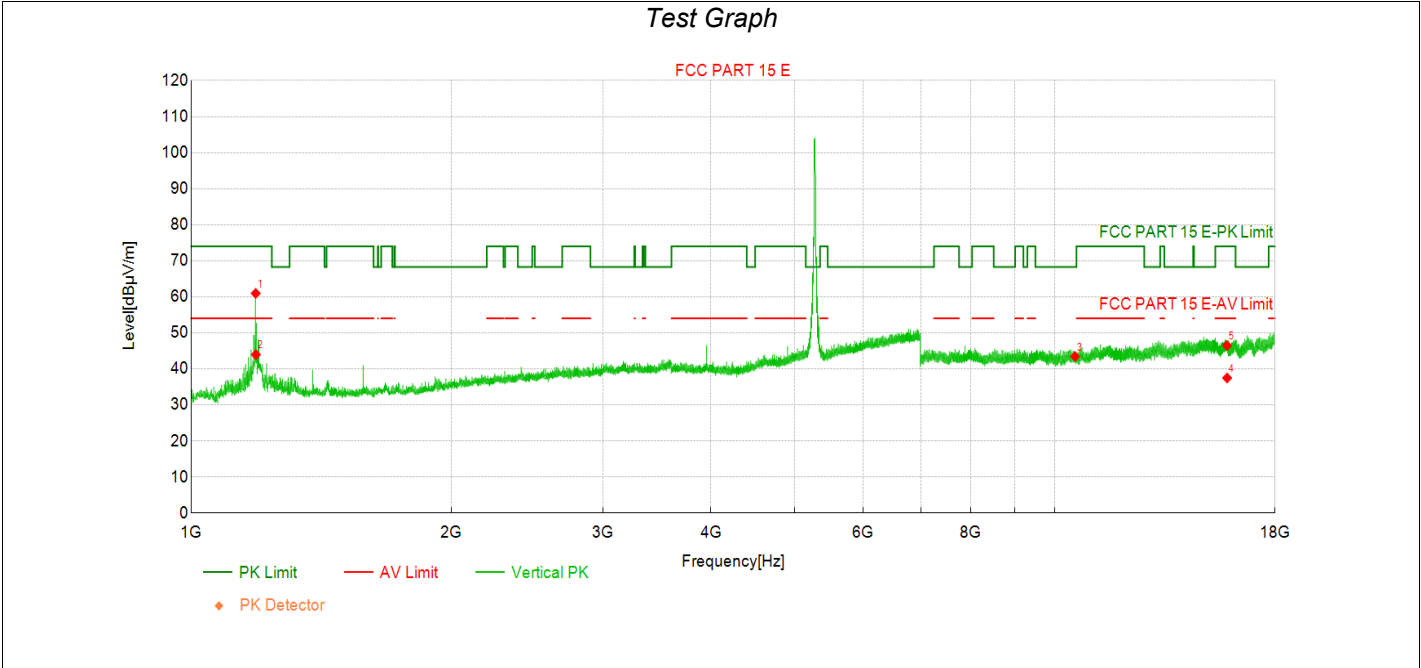
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.38	60.0	54.28	-5.740	74.00	19.72	PK	Vertic	PASS
2	1188.31	45.9	40.16	-5.740	54.00	13.84	AV	Vertic	PASS
3	10520.00	42.0	43.64	1.690	68.30	24.66	PK	Vertic	PASS
4	10520.00	33.2	34.87	1.690	-	-	AV	Vertic	NA
5	15780.00	36.4	45.68	9.330	74.00	28.32	PK	Vertic	PASS
6	15780.00	27.9	37.20	9.330	54.00	16.80	AV	Vertic	PASS

Transmit at 5280MHz by 802.11ac(20MHz)



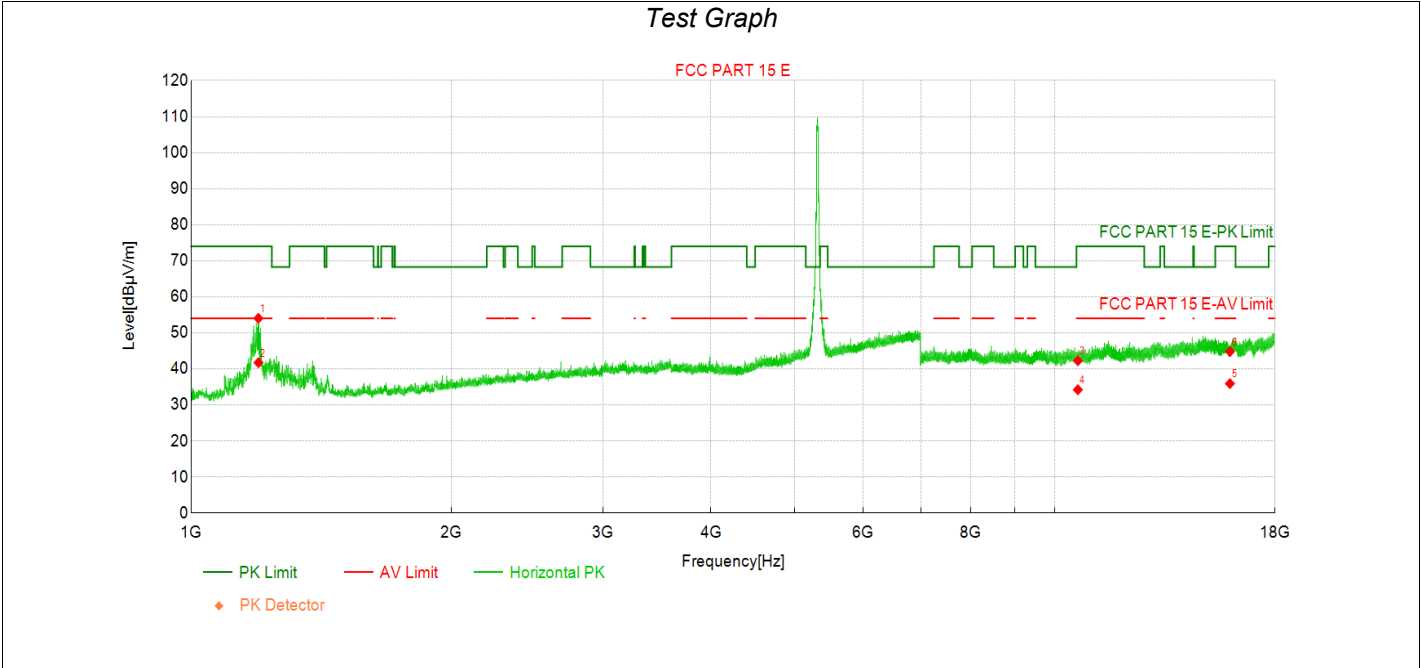
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.00	41.9	43.53	1.630	68.30	24.77	PK	Horizo	PASS
2	15840.00	37.6	46.86	9.280	74.00	27.14	PK	Horizo	PASS
3	15840.00	28.1	37.37	9.280	54.00	16.63	AV	Horizo	PASS

Transmit at 5280MHz by 802.11ac(20MHz)



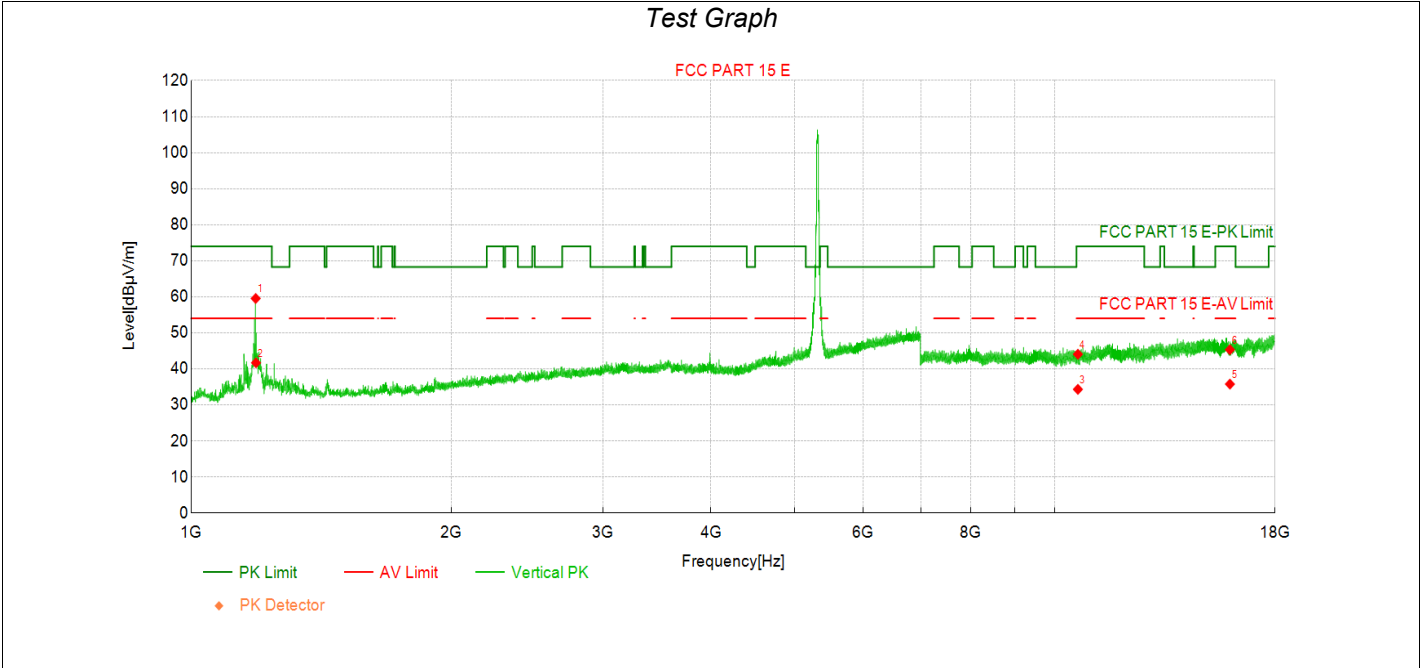
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.85	66.7	60.95	-5.740	74.00	13.05	PK	Vertic	PASS
2	1188.31	49.7	43.96	-5.740	54.00	10.04	AV	Vertic	PASS
3	10560.00	41.8	43.44	1.630	68.30	24.86	PK	Vertic	PASS
4	15840.00	28.2	37.48	9.280	54.00	16.52	AV	Vertic	PASS
5	15840.00	37.2	46.45	9.280	74.00	27.55	PK	Vertic	PASS

Transmit at 5320MHz by 802.11ac(20MHz)



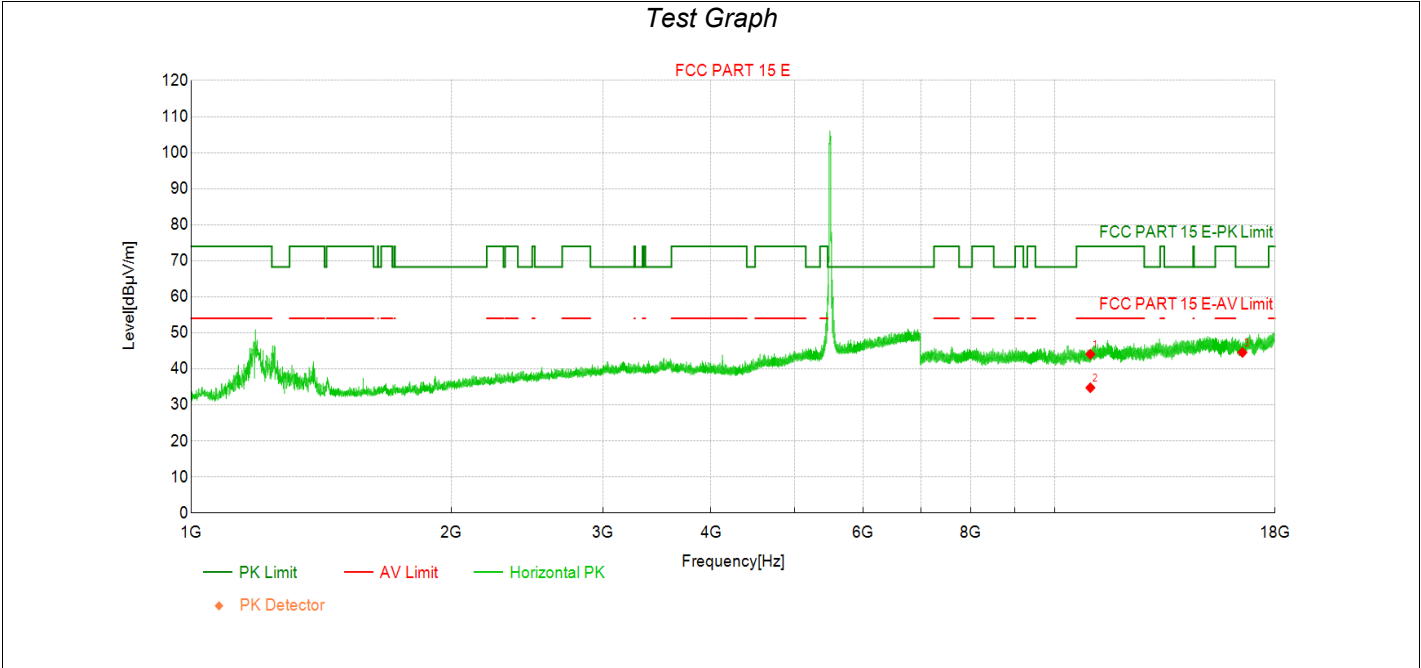
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1196.15	59.7	54.03	-5.690	74.00	19.97	PK	Horizo	PASS
2	1196.62	47.4	41.72	-5.690	54.00	12.28	AV	Horizo	PASS
3	10640.00	40.5	42.26	1.800	74.00	31.74	PK	Horizo	PASS
4	10640.00	32.4	34.22	1.800	54.00	19.78	AV	Horizo	PASS
5	15960.00	26.3	35.92	9.590	54.00	18.08	AV	Horizo	PASS
6	15960.00	35.2	44.82	9.590	74.00	29.18	PK	Horizo	PASS

Transmit at 5320MHz by 802.11ac(20MHz)



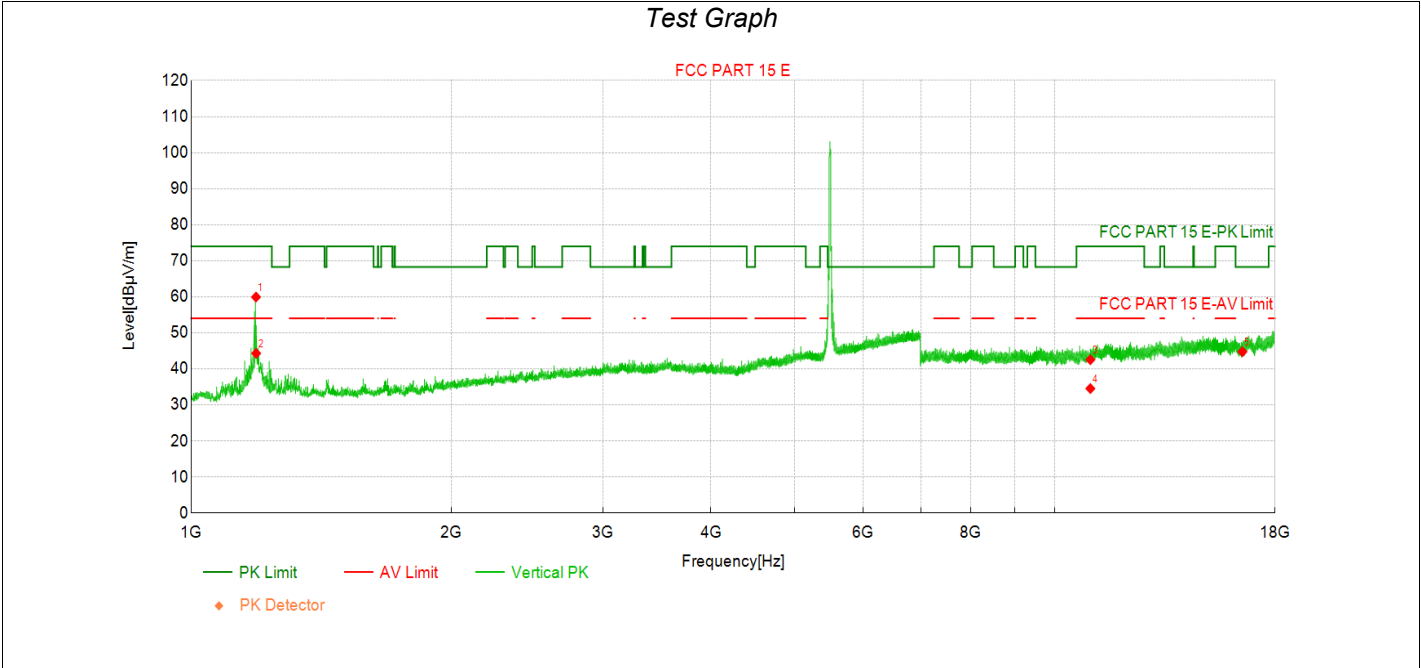
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1187.85	65.3	59.54	-5.740	74.00	14.46	PK	Vertic	PASS
2	1188.77	47.4	41.68	-5.730	54.00	12.32	AV	Vertic	PASS
3	10640.00	32.5	34.32	1.800	54.00	19.68	AV	Vertic	PASS
4	10640.00	42.3	44.07	1.800	74.00	29.93	PK	Vertic	PASS
5	15960.00	26.2	35.78	9.590	54.00	18.22	AV	Vertic	PASS
6	15960.00	35.7	45.33	9.590	74.00	28.67	PK	Vertic	PASS

Transmit at 5500MHz by 802.11ac(20MHz)



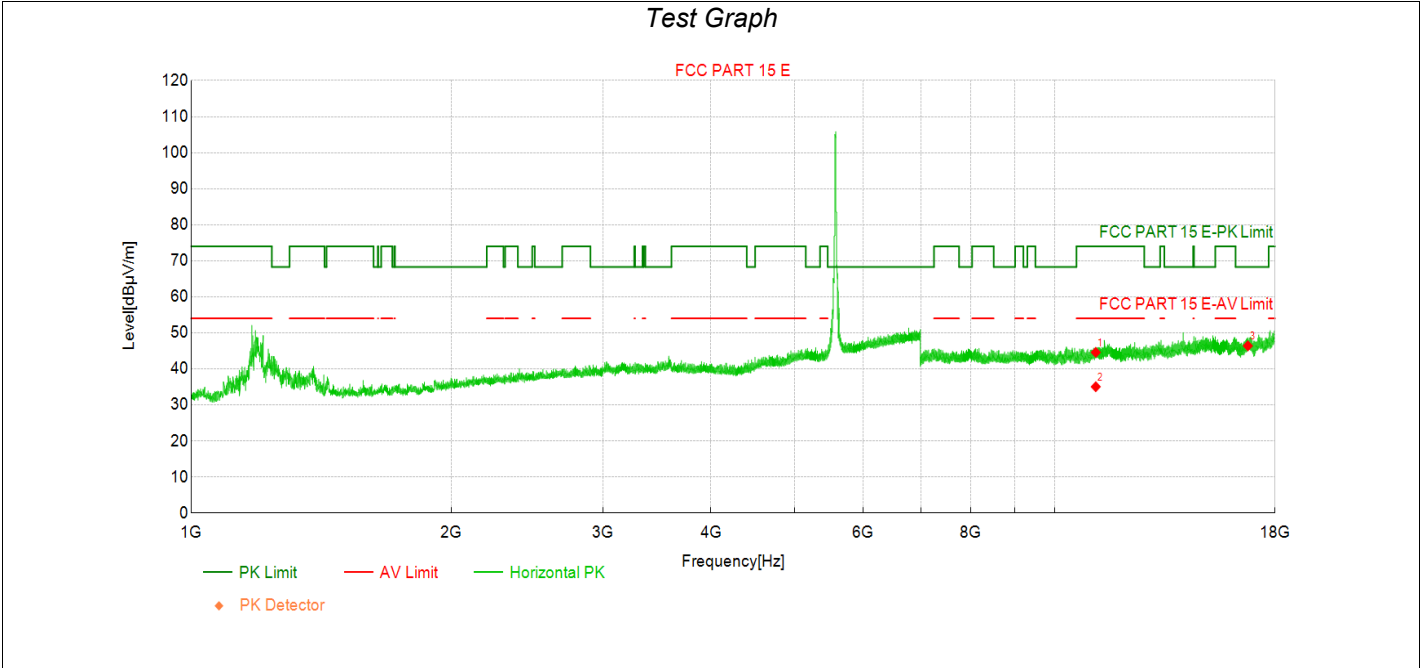
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	42.1	44.08	2.020	74.00	29.92	PK	Horizo	PASS
2	11000.00	32.8	34.78	2.020	54.00	19.22	AV	Horizo	PASS
3	16500.00	35.1	44.56	9.470	68.30	23.74	PK	Horizo	PASS

Transmit at 5500MHz by 802.11ac(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1188.77	65.7	59.94	-5.730	74.00	14.06	PK	Vertic	PASS
2	1189.23	50.0	44.31	-5.730	54.00	9.69	AV	Vertic	PASS
3	11000.00	40.5	42.55	2.020	74.00	31.45	PK	Vertic	PASS
4	11000.00	32.5	34.55	2.020	54.00	19.45	AV	Vertic	PASS
5	16500.00	35.3	44.78	9.470	68.30	23.52	PK	Vertic	PASS

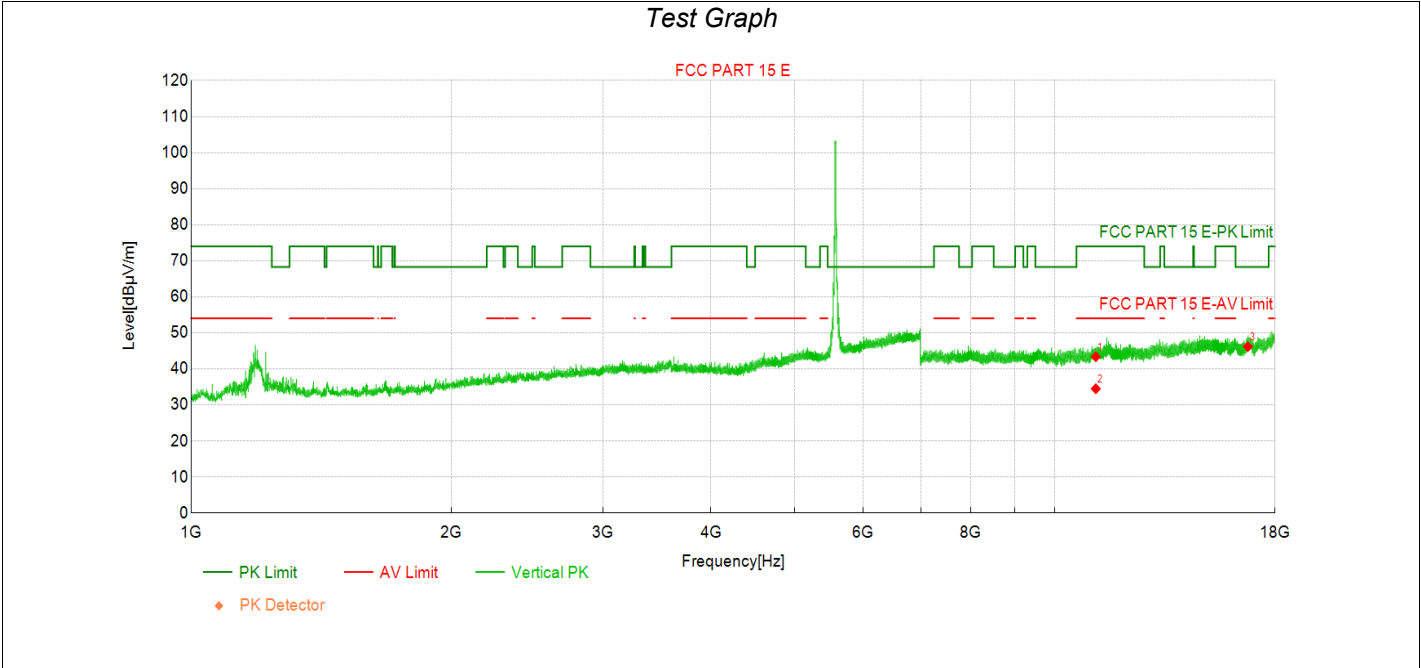
Transmit at 5580MHz by 802.11ac(20MHz)



Data List

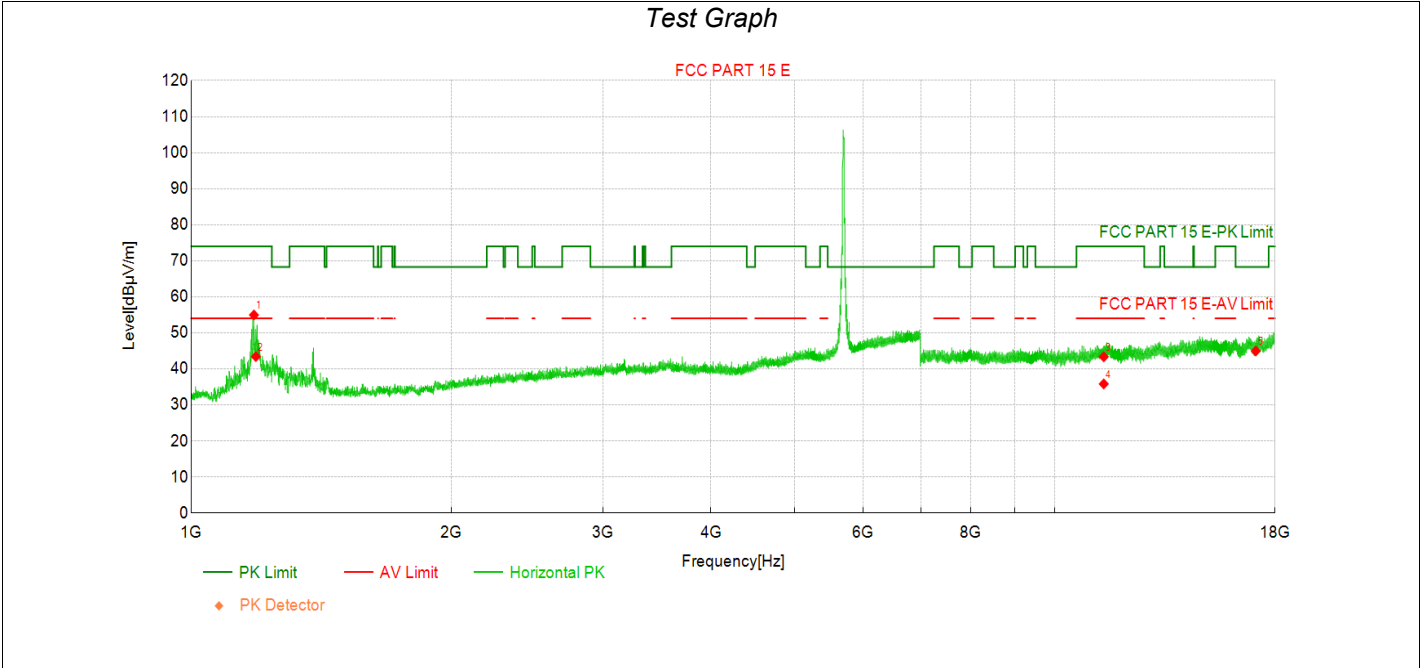
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	40.8	44.59	3.750	74.00	29.41	PK	Horizo	PASS
2	11160.00	31.3	35.05	3.750	54.00	18.95	AV	Horizo	PASS
3	16740.00	36.5	46.40	9.950	68.30	21.90	PK	Horizo	PASS

Transmit at 5580MHz by 802.11ac(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	39.6	43.38	3.750	74.00	30.62	PK	Vertic	PASS
2	11160.00	30.8	34.50	3.750	54.00	19.50	AV	Vertic	PASS
3	16740.00	36.2	46.19	9.950	68.30	22.11	PK	Vertic	PASS

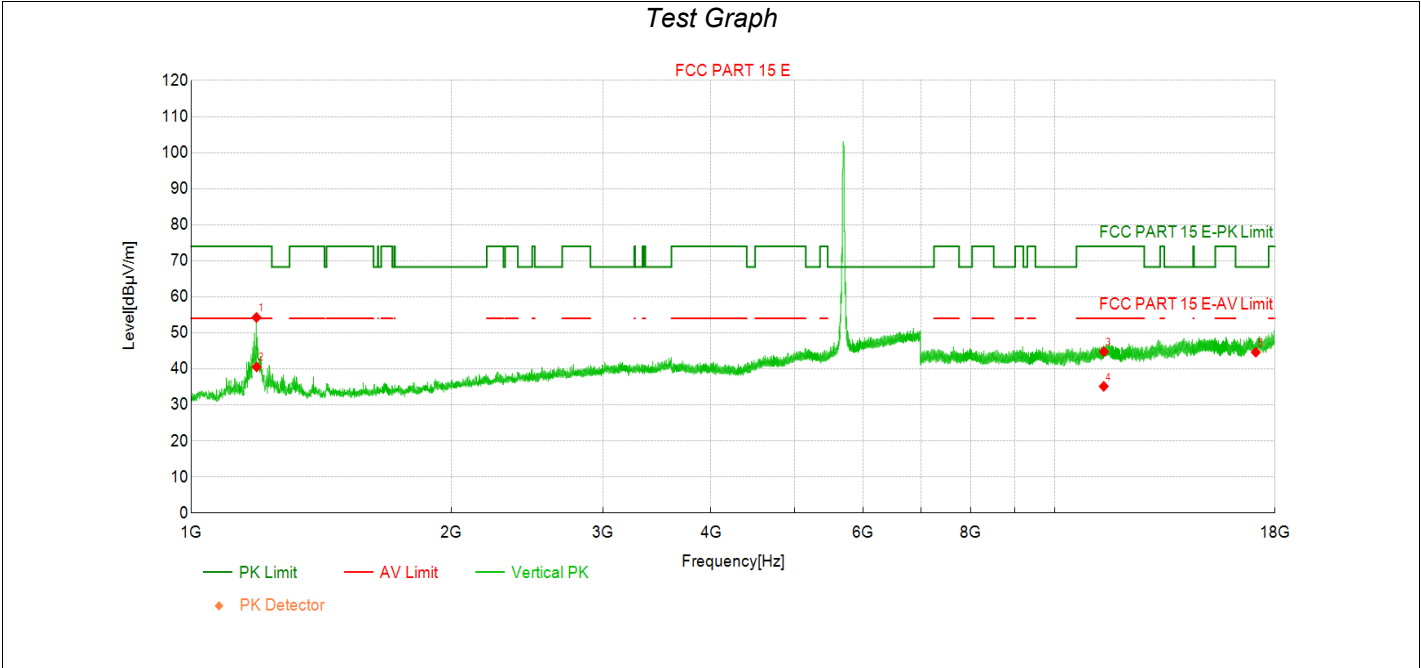
Transmit at 5700MHz by 802.11ac(20MHz)



Data List

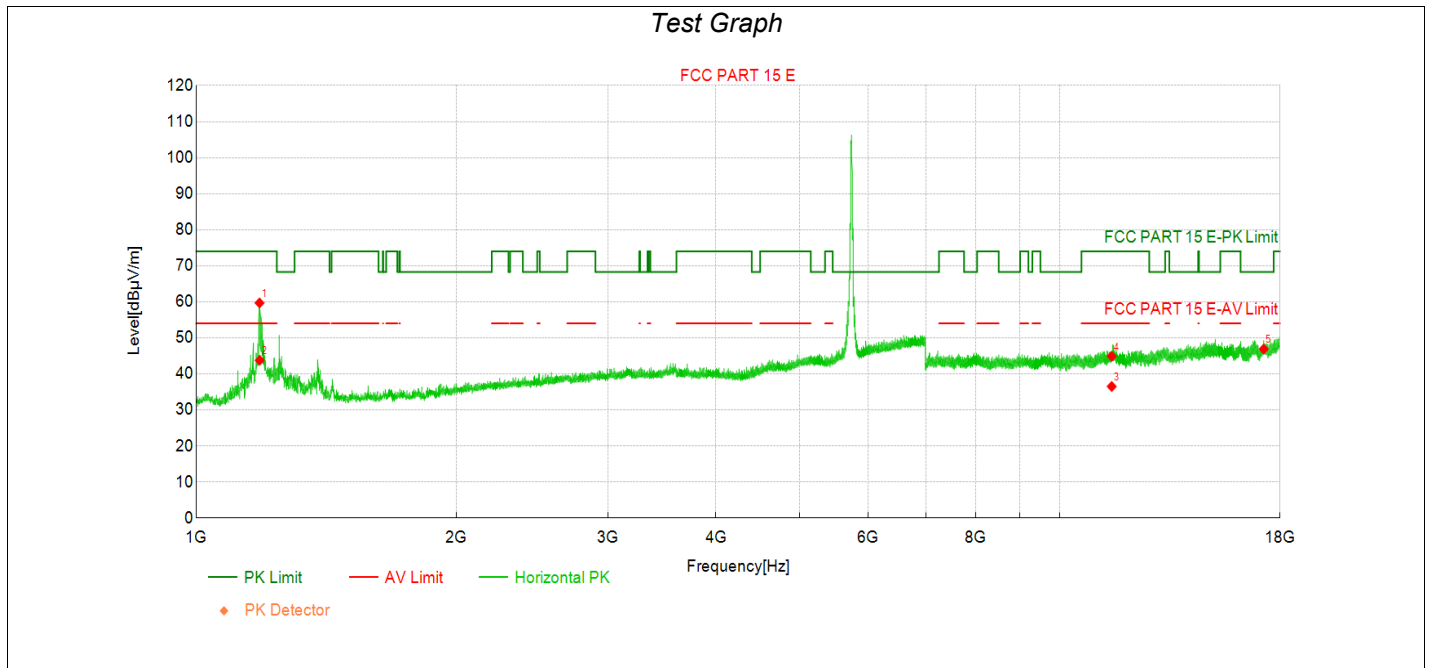
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1182.31	60.7	54.96	-5.780	74.00	19.04	PK	Horizo	PASS
2	1188.31	49.2	43.42	-5.740	54.00	10.58	AV	Horizo	PASS
3	11400.00	39.3	43.36	4.080	74.00	30.64	PK	Horizo	PASS
4	11400.00	31.8	35.83	4.080	54.00	18.17	AV	Horizo	PASS
5	17100.00	35.1	44.97	9.860	68.30	23.33	PK	Horizo	PASS

Transmit at 5700MHz by 802.11ac(20MHz)



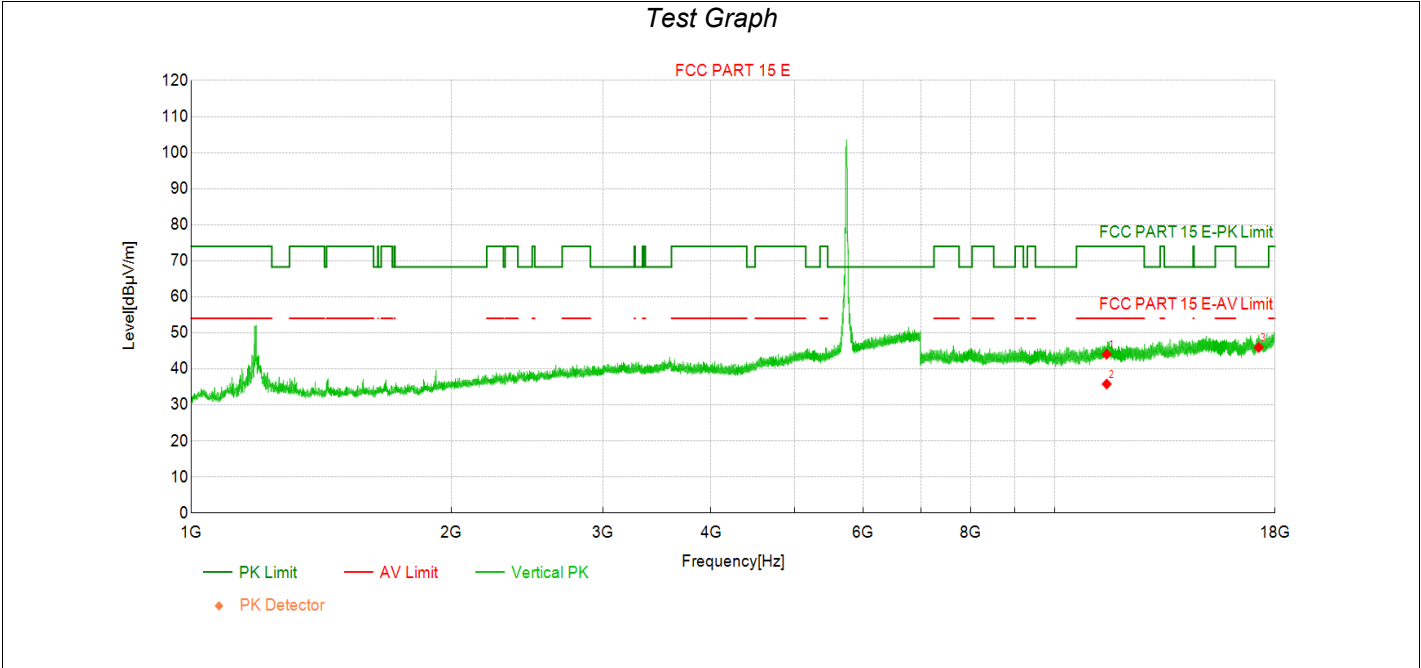
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1190.15	60.0	54.27	-5.730	74.00	19.73	PK	Vertic	PASS
2	1190.62	46.3	40.55	-5.720	54.00	13.45	AV	Vertic	PASS
3	11400.00	40.7	44.80	4.080	74.00	29.20	PK	Vertic	PASS
4	11400.00	31.1	35.16	4.080	54.00	18.84	AV	Vertic	PASS
5	17100.00	34.8	44.62	9.860	68.30	23.68	PK	Vertic	PASS

Transmit at 5745MHz by 802.11ac(20MHz)



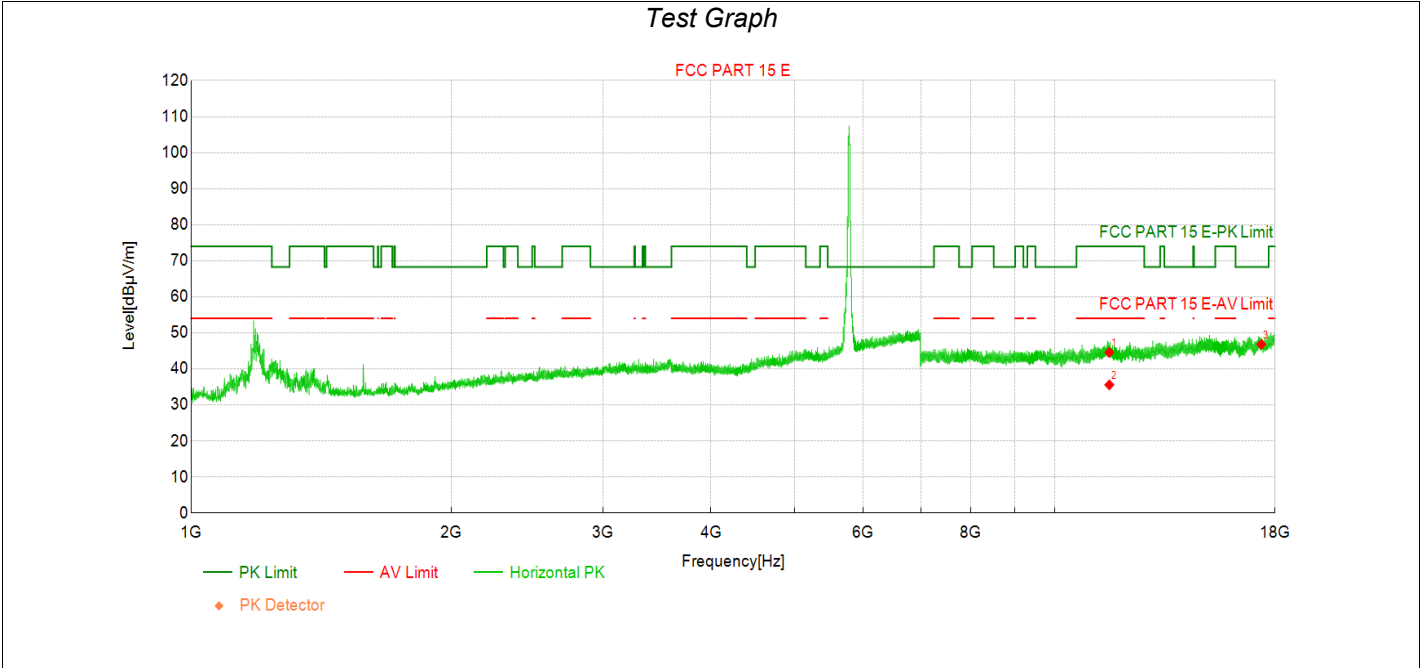
Data List									
NO	Frequenc y [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdi ct
1	1184.15	65.5	59.69	-5.760	74.00	14.31	PK	Horizo	PASS
2	1184.62	49.5	43.77	-5.760	54.00	10.23	AV	Horizo	PASS
3	11490.00	32.3	36.51	4.250	54.00	17.49	AV	Horizo	PASS
4	11490.00	40.6	44.88	4.250	74.00	29.12	PK	Horizo	PASS
5	17235.00	36.6	46.88	10.290	68.30	21.42	PK	Horizo	PASS

Transmit at 5745MHz by 802.11ac(20MHz)



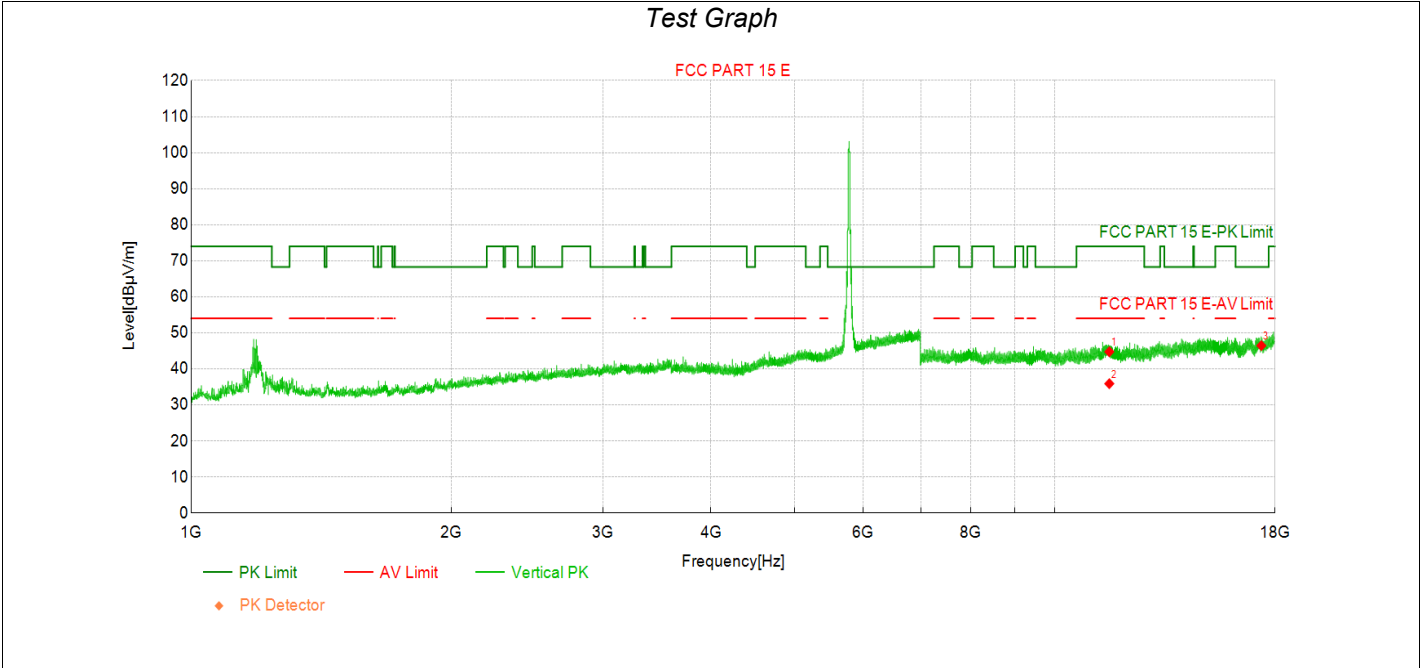
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	39.8	44.05	4.250	74.00	29.95	PK	Vertic	PASS
2	11490.00	31.6	35.80	4.250	54.00	18.20	AV	Vertic	PASS
3	17235.00	35.7	45.95	10.290	68.30	22.35	PK	Vertic	PASS

Transmit at 5785MHz by 802.11ac(20MHz)



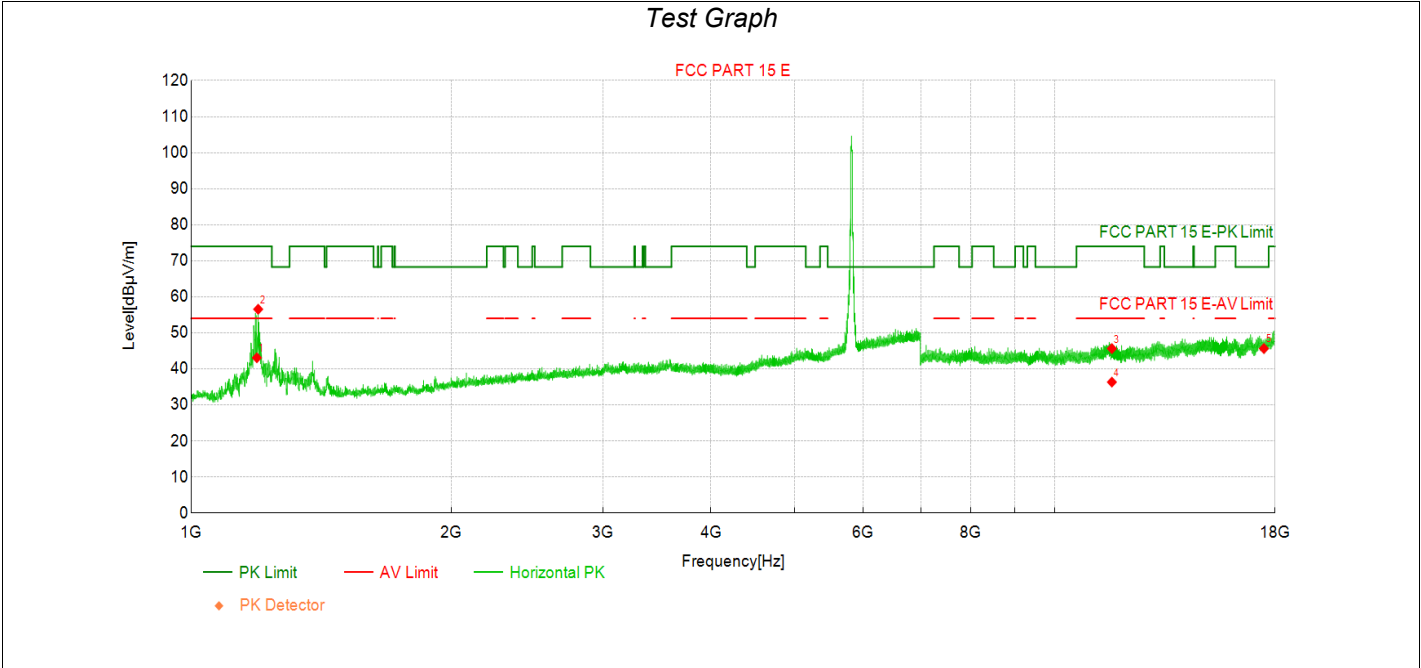
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	40.1	44.58	4.480	74.00	29.42	PK	Horizo	PASS
2	11570.00	31.1	35.57	4.480	54.00	18.43	AV	Horizo	PASS
3	17355.00	36.4	46.82	10.390	68.30	21.48	PK	Horizo	PASS

Transmit at 5785MHz by 802.11ac(20MHz)



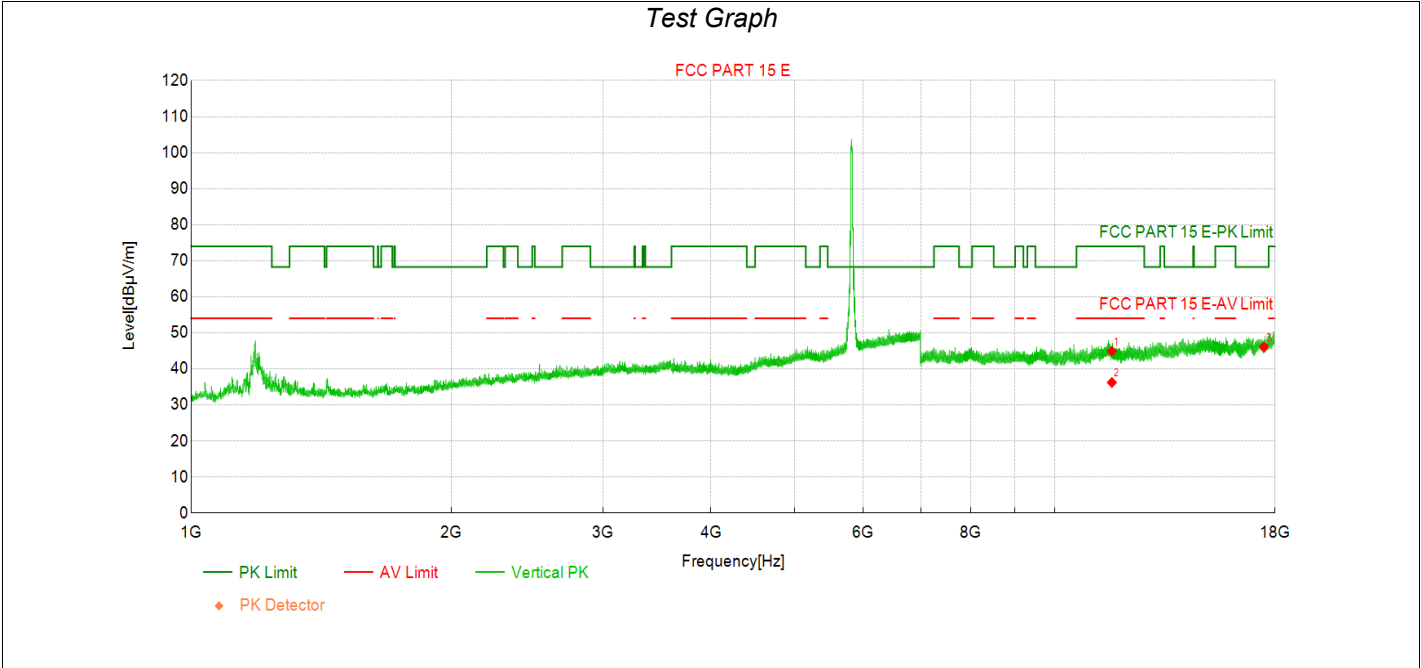
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	40.3	44.76	4.480	74.00	29.24	PK	Vertic	PASS
2	11570.00	31.4	35.90	4.480	54.00	18.10	AV	Vertic	PASS
3	17355.00	36.1	46.45	10.390	68.30	21.85	PK	Vertic	PASS

Transmit at 5825MHz by 802.11ac(20MHz)



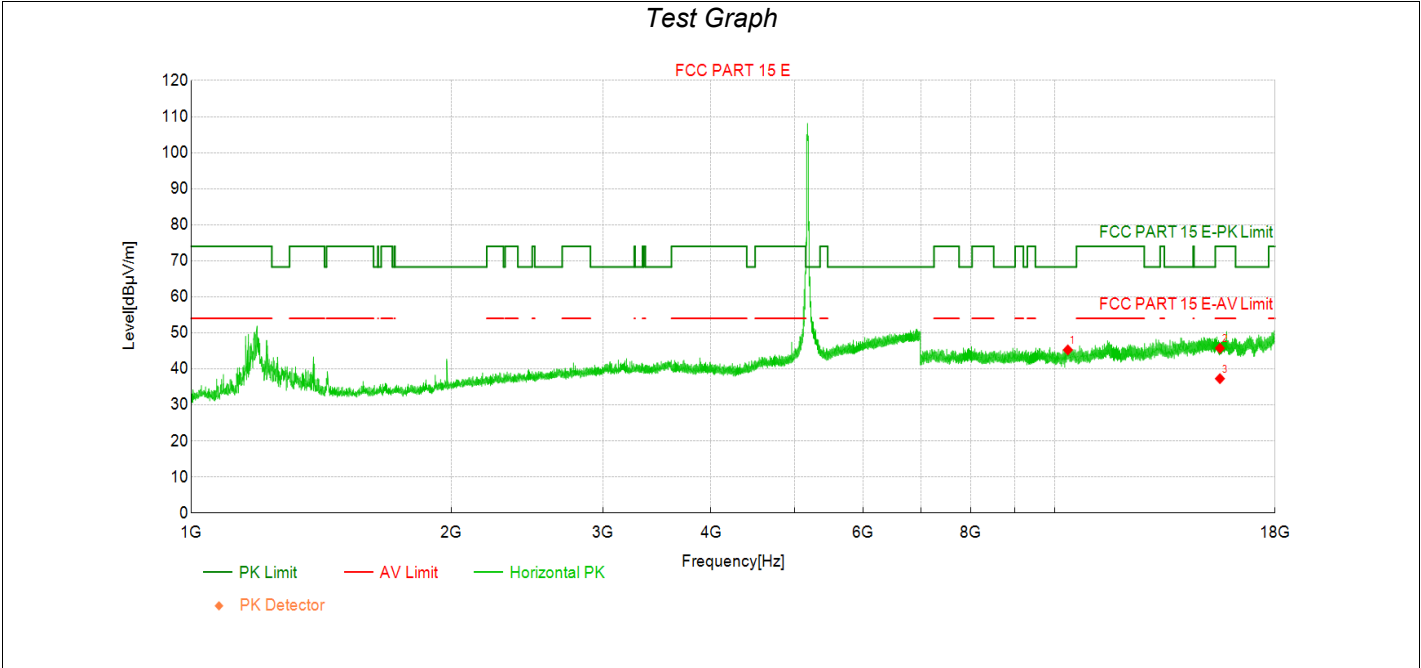
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1191.54	48.8	43.09	-5.720	54.00	10.91	AV	Horizo	PASS
2	1195.69	62.2	56.55	-5.690	74.00	17.45	PK	Horizo	PASS
3	11650.00	41.2	45.63	4.430	74.00	28.37	PK	Horizo	PASS
4	11650.00	31.9	36.33	4.430	54.00	17.67	AV	Horizo	PASS
5	17475.00	35.5	45.65	10.200	68.30	22.65	PK	Horizo	PASS

Transmit at 5825MHz by 802.11ac(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	40.5	44.91	4.430	74.00	29.09	PK	Vertic	PASS
2	11650.00	31.8	36.23	4.430	54.00	17.77	AV	Vertic	PASS
3	17475.00	35.9	46.12	10.200	68.30	22.18	PK	Vertic	PASS

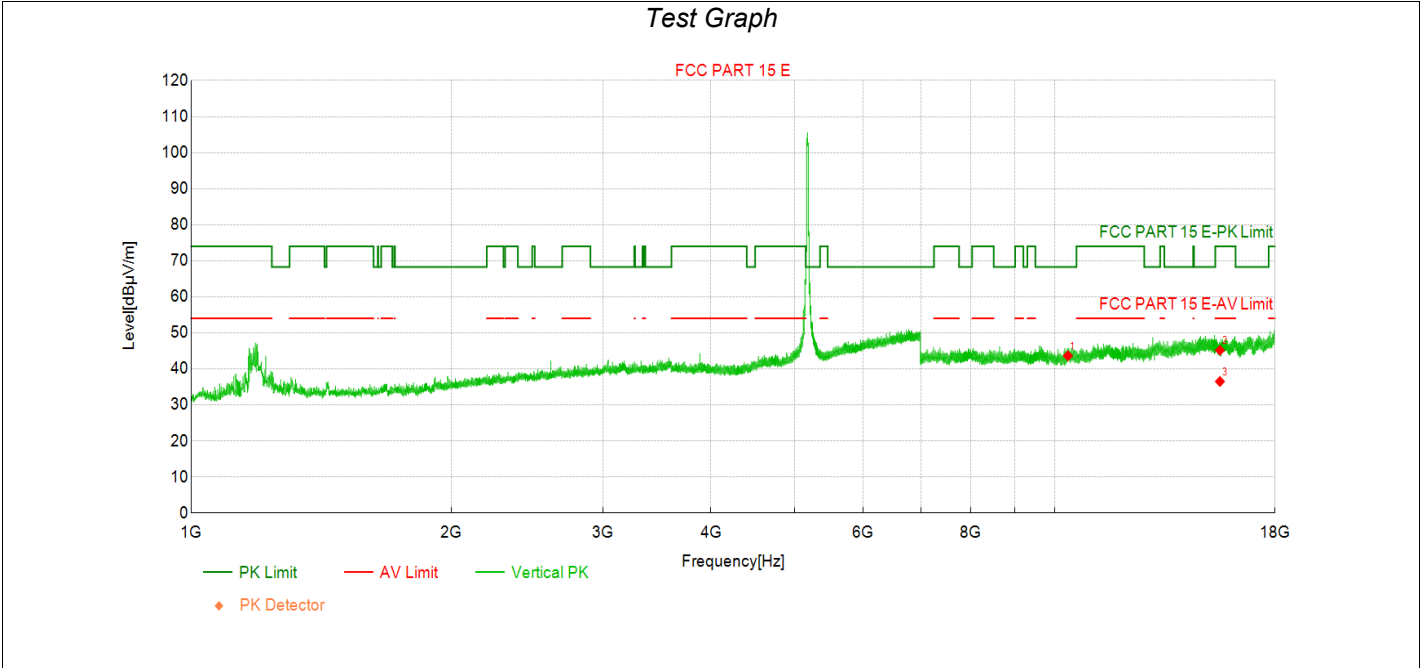
Transmit at 5180MHz by 802.11ax(20MHz)



Data List

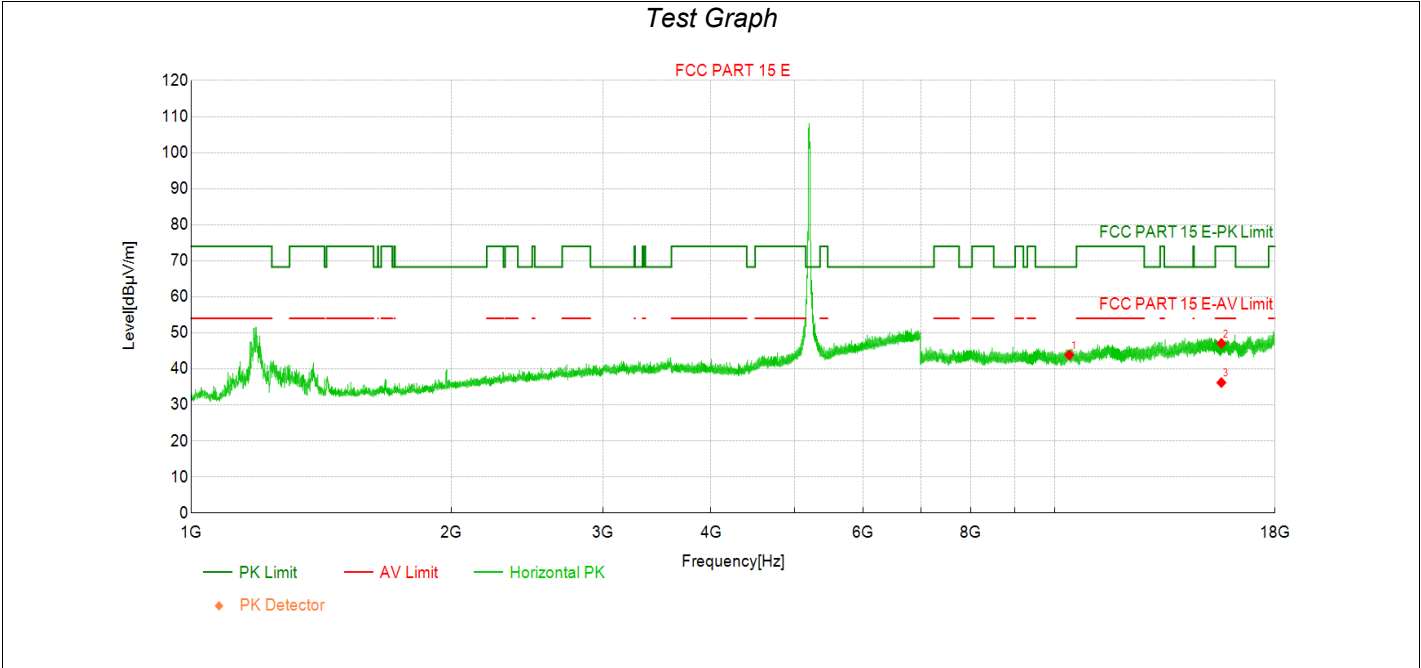
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	43.7	45.27	1.620	68.30	23.03	PK	Horizo	PASS
2	15540.00	36.6	45.74	9.100	74.00	28.26	PK	Horizo	PASS
3	15540.00	28.2	37.30	9.100	54.00	16.70	AV	Horizo	PASS

Transmit at 5180MHz by 802.11ax(20MHz)



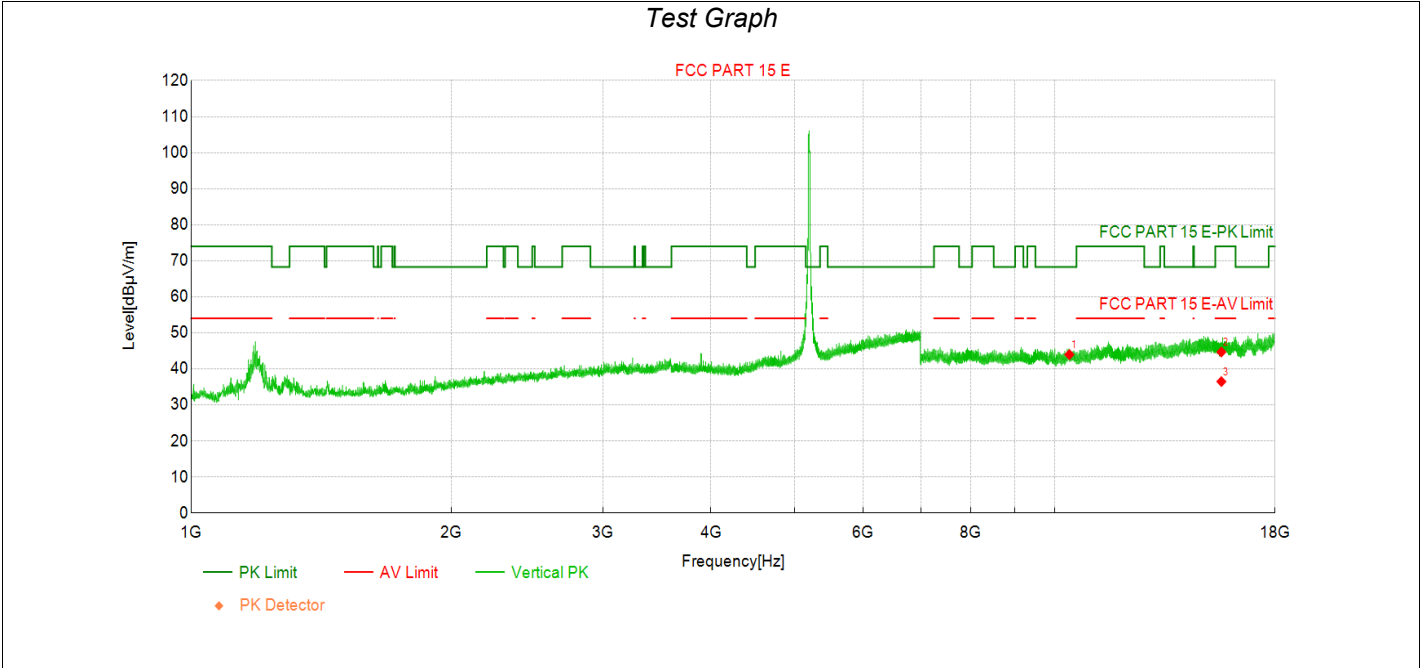
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	42.0	43.64	1.620	68.30	24.66	PK	Vertic	PASS
2	15540.00	36.1	45.17	9.100	74.00	28.83	PK	Vertic	PASS
3	15540.00	27.4	36.51	9.100	54.00	17.49	AV	Vertic	PASS

Transmit at 5200MHz by 802.11ax(20MHz)



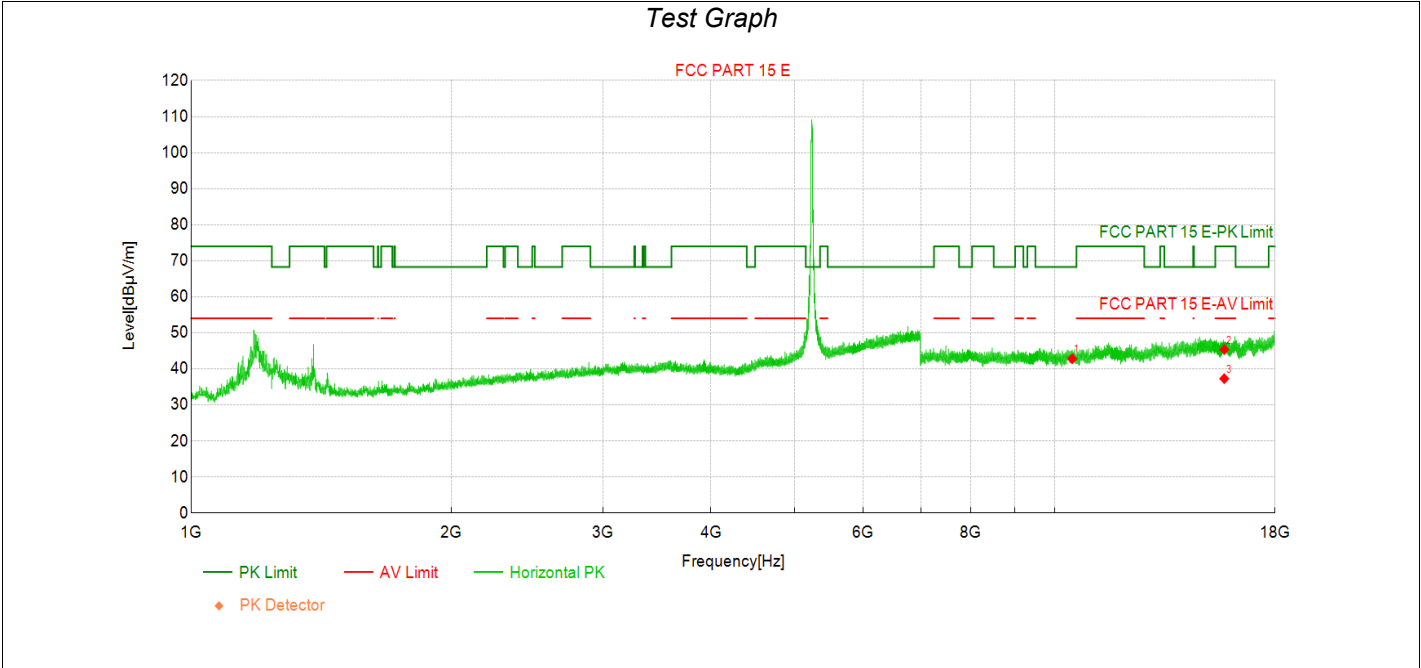
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	42.3	43.89	1.550	68.30	24.41	PK	Horizo	PASS
2	15600.00	37.8	47.08	9.310	74.00	26.92	PK	Horizo	PASS
3	15600.00	26.9	36.19	9.310	54.00	17.81	AV	Horizo	PASS

Transmit at 5200MHz by 802.11ax(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	42.4	43.97	1.550	68.30	24.33	PK	Vertic	PASS
2	15600.00	35.4	44.68	9.310	74.00	29.32	PK	Vertic	PASS
3	15600.00	27.2	36.48	9.310	54.00	17.52	AV	Vertic	PASS

Transmit at 5240MHz by 802.11ax(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10480.00	41.1	42.82	1.680	68.30	25.48	PK	Horizo	PASS
2	15720.00	35.9	45.36	9.500	74.00	28.64	PK	Horizo	PASS
3	15720.00	27.8	37.29	9.500	54.00	16.71	AV	Horizo	PASS