

Test report No:
25B0452R.704A

FCC TEST REPORT

Product Name	WiFi/BT Module
Model and /or type reference	MWH428B
Trademark	Hisense
FCC ID	2AJVQ-MWH428B
Applicant's name / address	Qingdao Intelligent & Precise Electronics Co., Ltd. No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.407) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Tim Cao / Project Manager 
Approved by (name / position & signature)	Frank He / Technical Manager 
Date of issue	2025-12-15
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INDEX

	page
General conditions	4
Environmental conditions	4
Possible test case verdicts	5
Abbreviations	5
Document History	6
Remarks and Comments.....	6
Used Equipment	7
Uncertainty	9
1 General Information.....	10
1.1 General Description of the Item(s)	10
1.2 Channel List	11
2 Description of Test Setup	12
2.1 Auxiliary equipment /Accessories/Test software for the EUT	12
2.2 Worst-case configuration and mode.....	13
2.3 Power setting in test	14
3 Verdict summary section	15
3.1 Standards.....	15
3.2 Deviation(s) from the Standard(s) / Test Specification(s).....	15
3.3 Overview of results.....	16
3.4 Test Facility.....	17
4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE	18
4.1 AC Power Line Conducted Emission	18
4.1.1 Limit	18
4.1.2 Test Setup.....	18
4.1.3 Test Procedure.....	18
4.2 Radiated Emissions.....	19
4.2.1 Limit	19
4.2.2 Test Setup.....	21
4.2.3 Test Procedure.....	22
4.3 Emission bandwidth	23
4.3.1 Limit	23
4.3.2 Test Setup.....	23
4.3.3 Test Procedure.....	23

4.4	6dB bandwidth	24
4.4.1	Limit	24
4.4.2	Test Setup.....	24
4.4.3	Test Procedure.....	24
4.5	Duty cycle	25
4.5.1	Limit	25
4.5.2	Test Setup.....	25
4.5.3	Test Procedure.....	25
4.6	Power Output.....	26
4.6.1	Limit	26
4.6.2	Test Setup.....	27
4.6.3	Test Procedure.....	27
4.7	Maximum Power Spectral Density	29
4.7.1	Limit	29
4.7.2	Test Setup.....	29
4.7.3	Test Procedure.....	30
4.8	Radiated Emission Band Edge	31
4.8.1	Limit	31
4.8.2	Test Setup.....	33
4.8.3	Test Procedure.....	33
4.9	Frequency Stability.....	35
4.9.1	Limit:	35
4.9.2	Test Setup.....	35
4.9.3	Test Procedure.....	35
4.10	Antenna Requirement.....	36
4.10.1	Limit:	36
4.10.2	Antenna Connector Construction:	36
5	Test setup photo and EUT Photo.....	37
6	Test Result.....	38
	Appendix A: Radiated Emission.....	38
	Appendix B: Emission bandwidth and occupied bandwidth	106
	Appendix C: 6dB Emission Bandwidth.....	142
	Appendix D: Duty cycle	146
	Appendix E: Power Output	164
	Appendix F: Maximum Power Spectral Density.....	165
	Appendix G: Radiated Emission Band Edge	183

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 A	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Location B	No. 8213, Fanhua Avenue, Baohe District, Hefei City, Anhui Province, China
Date(receive sample)	Nov. 17, 2025
Date (start test)	Nov. 20, 2025
Date (finish test)	Dec. 03, 2025
Note: Radiated Emission and Radiated Emission Band Edge were completed at Test Location B, and other tests were completed at Test Location A.	

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
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
25B0452R.704A	V1.0	Initial issue of report.	2025-12-15

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

Test Location A :Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2025.05.10	2026.05.09	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2025.06.10	2026.06.09	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2025.06.10	2026.06.09	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2025.03.16	2026.03.15	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF07	2025.06.17	2026.06.16	N/A	N/A

Test system

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2025.09.20	2026.09.19	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.01.26	2026.01.25	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2025.03.23	2026.03.22	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2025.03.23	2026.03.22	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2025.05.10	2026.05.09	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Test Location A :Radiated Emission(9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100573	2025.01.11	2026.01.10	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2025.04.16	2026.04.15	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2025.03.24	2026.03.23	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2025.06.17	2026.06.16	N/A	N/A
Coaxial Cable	Huber+Suhner	RTS-1909	THM-021	2025.04.30	2026.04.29	N/A	N/A
Anechoic chamber	Quietek	9m*6m*6m	AC2	2024.07.07	2029.07.06	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Test Location A: Radiated Emission (1GHz-40GHz) / AC6

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Signal analyzer	Agilent	N9020A	MY49100159	2025.05.10	2026.05.09	A 08.54	N/A
Power Amplifier	MVE	MPC1018.50	C30002D	2025.05.17	2026.05.16	N/A	N/A
DRG Horn Antenna	RFSPIN	DRH18-E	CE2C07A18EN	2024.12.07	2025.12.06	N/A	N/A
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9170	750	2024.11.24	2025.11.23	N/A	N/A
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9170	750	2025.11.24	2026.11.23	N/A	N/A
Pre-Amplifier	Schwarzbeck	BBV 9721	00114	2025.05.17	2026.05.16	N/A	N/A
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9168	1231	2025.05.28	2026.05.27	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF04	2025.06.17	2026.06.16	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2025.06.17	2026.06.16	N/A	N/A
Anechoic chamber	Quietek	9m*5.5m*5.5m	AC6	2024.06.30	2029.06.29	N/A	N/A
Test Software	Tonscend	JS36	JS36-RSE	N/A	N/A	N/A	5.0.0

Test Location B: Radiated Emission Band Edge / AC103

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Signal analyzer	keysight	N9020B	MY63490118	2025.07.11	2026.07.10	A 08.54	N/A
Bilog Antenna	TESEQ	CBL6112D	64164	2024.11.23	2025.11.22	N/A	N/A
Bilog Antenna	TESEQ	CBL6112D	64164	2025.11.23	2026.11.22	N/A	N/A
Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2025.10.29	2026.10.28	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2025.10.20	2026.10.19	N/A	N/A
Amplifier	Tonscend	TAP01018048S	AP23J8060307	2025.11.16	2026.11.15	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	23G806F0701	2025.11.20	2026.11.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	026	2025.09.04	2026.09.03	N/A	N/A
Test Software	Tonscend	JS36	N/A	N/A	N/A	N/A	5.0.0

UNCERTAINTY

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

Test item Test Location A	Uncertainty
AC Power Line Conducted Emission	± 2.92 dB
Peak Power Output	± 1.13 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.60 dB 200MHz~1GHz: 4.10 dB Vertical: 30MHz~200MHz: 4.80 dB 200MHz~1GHz: 4.10 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~40GHz: 4.70 dB Vertical: 18GHz~40GHz: 4.60 dB
RF antenna conducted test	± 1.13 dB
Radiated Emission Band Edge	± 5.00 dB
DTS Bandwidth	± 279 Hz
Occupied Bandwidth	± 279 Hz
Power Density	± 1.13 dB

Test item Test Location B	Uncertainty
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.86 dB 300MHz~1GHz: 4.86 dB Vertical: 30MHz~200MHz: 4.92 dB 300MHz~1GHz: 4.92 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~18GHz: 5.99 dB Vertical: 1GHz~18GHz: 5.76 dB Horizontal: 18GHz~40GHz: 5.99 dB Vertical: 18GHz~40GHz: 5.76 dB
Radiated Emission Band Edge	± 5.99 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name:	WiFi/BT Module		
Model No.:	MWH428B		
Trademark:	Hisense		
Hardware Version:	V1.00		
Software Version:	NA		
Power Supply:	3.3Vdc		
Manufacturer:	Qingdao Intelligent & Precise Electronics Co., Ltd.		
Manufacturer address:	No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China		
Test Matrix/ IMEI:	RF Conducted	#1	
	RSE	#2	
Wireless specification:	802.11a/n		
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)		
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:	SISO:	5150-5850MHz: WIFI1: 2.58dBi; WIFI2: 2.98dBi	
	CDD:	Power: 5150-5850MHz : 2.98dBi	
		PSD: 5150-5850MHz : 5.79dBi	

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 (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	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz	165	5825 MHz
802.11n (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	151	5755 MHz	159	5795 MHz	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		
MPTool	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
802.11a	6Mbps
802.11n (HT 20)	MCS0(6.5 Mbps)
802.11n (HT 40)	MCS0(13.5 Mbps)
Note: EUT supports SISO Ant 1 antenna mode, SISO Ant 2 mode and MIMO Ant 1+2 mode. What is shown in the report is the data of the worst antenna mode.	

2.3 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting
802.11a	36	5180	19.0
	44	5220	19.0
	48	5240	19.0
	52	5260	19.0
	60	5300	19.0
	64	5320	17.5
	100	5500	15.5
	116	5580	15.5
	140	5700	17.0
	149	5745	17.5
	157	5785	19.0
	165	5825	18.0
802.11n(20MHz)	36	5180	16.5
	44	5220	16.0
	48	5240	16.0
	52	5260	16.0
	60	5300	15.5
	64	5320	14.5
	100	5500	12.0
	116	5580	13.0
	140	5700	13.5
	149	5745	14.0
	157	5785	15.0
	165	5825	15.0
802.11n(40MHz)	38	5190	15.5
	46	5230	15.0
	54	5270	15.0
	62	5310	13.5
	102	5510	11.5
	118	5590	12.0
	134	5670	12.0
	151	5755	13.0
	159	5795	14.5

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	N/A ^(See Note3)	N/A ^(See Note3)
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: Section 15.209	PASS	Test data please refer to Appendix A
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	PASS	Test data please refer to Appendix B
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e)	PASS	Test data please refer to Appendix C
Duty cycle	ANSI C63.10:2020	PASS	Test data please refer to Appendix D
Power Output	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	PASS	Test data please refer to Appendix E
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	PASS	Test data please refer to Appendix F
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 G
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 25B0452R.705A
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. Note3: EUT is DC powered, not applicable.			

3.4 Test Facility

Tset Location A	: FCC Designation Number: CN1199
Tset Location B	: FCC Designation Number: CN1321

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 AC Power Line Conducted Emission

VERDICT: N/A

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

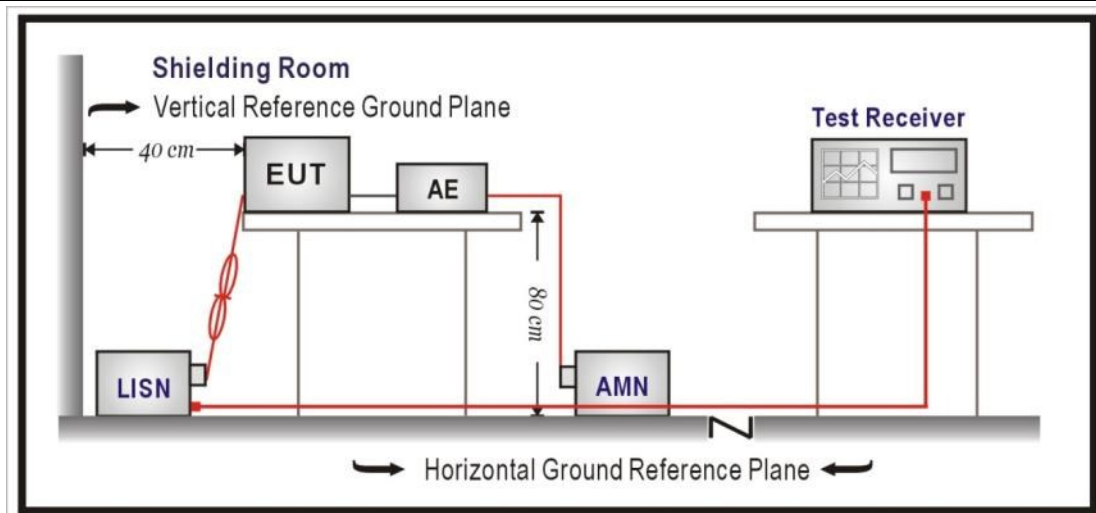
¹⁾ At the transition frequency, the lower limit applies.

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)

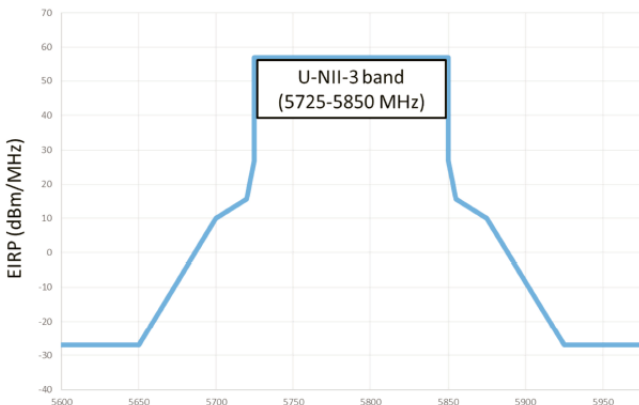
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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).

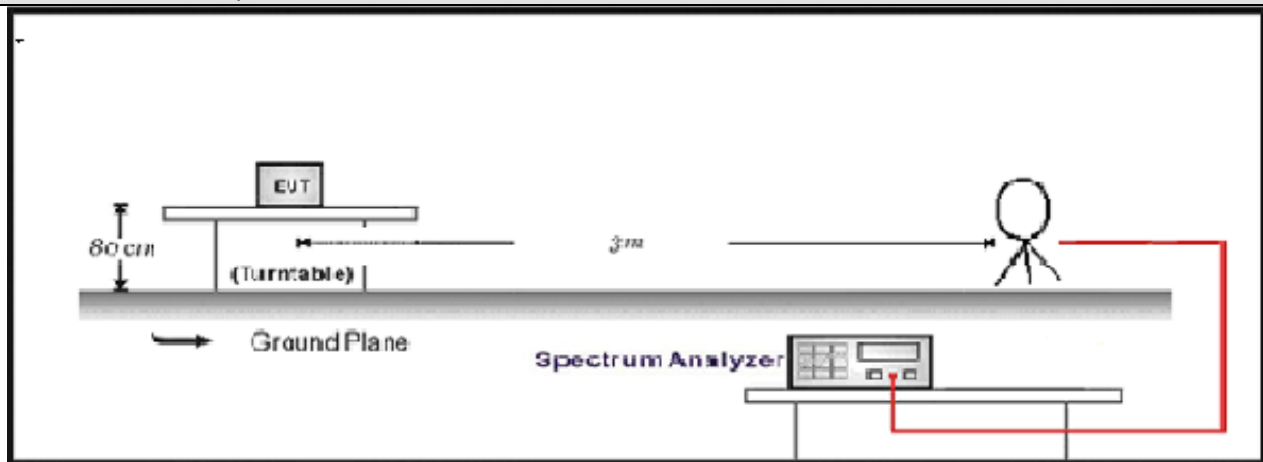
FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit),

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

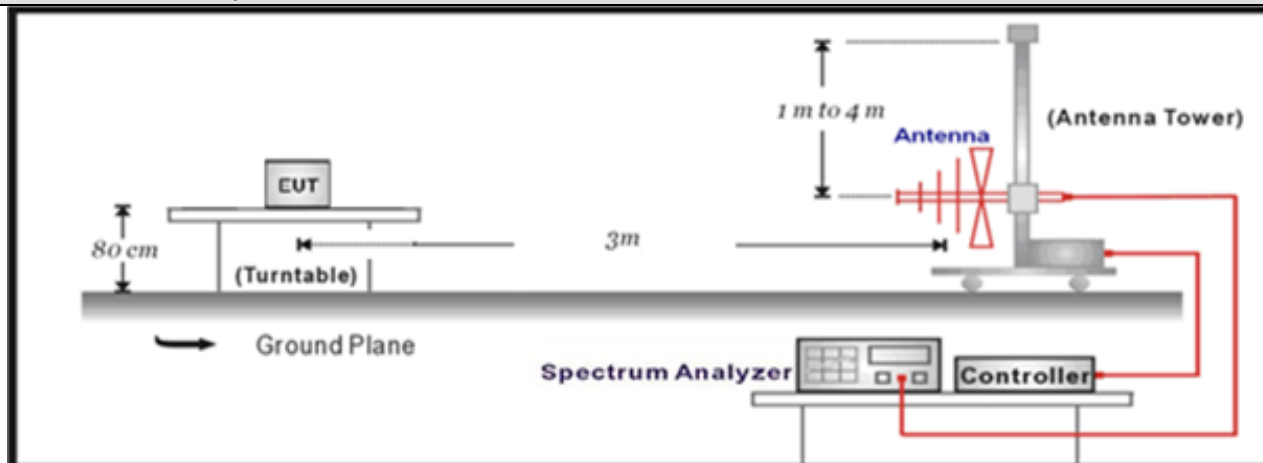
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5850	 U-NII-3 band (5725-5850 MHz)

4.2.2 Test Setup

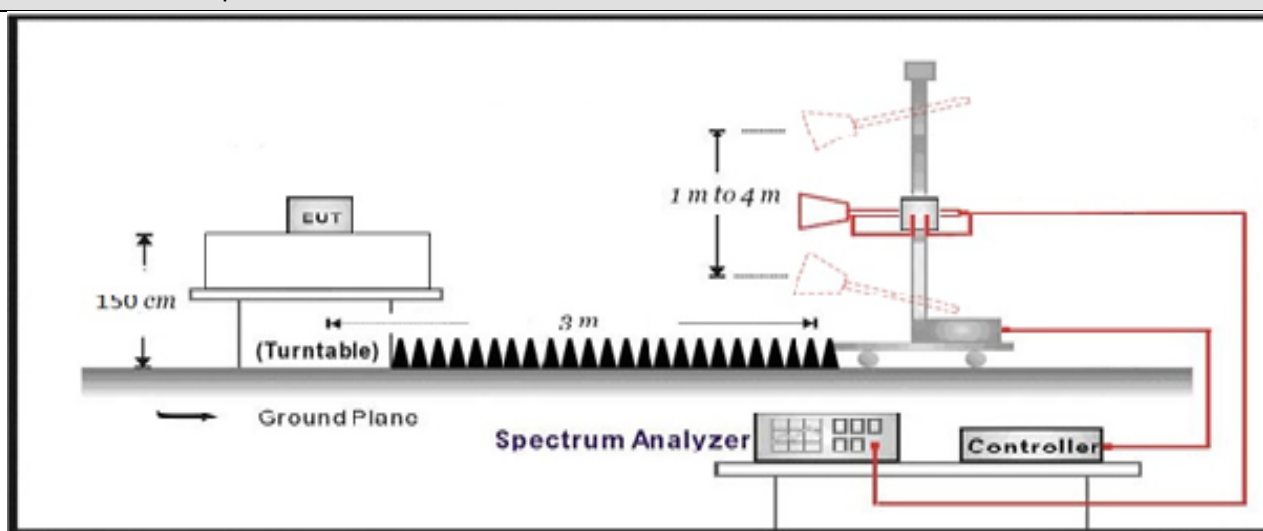
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



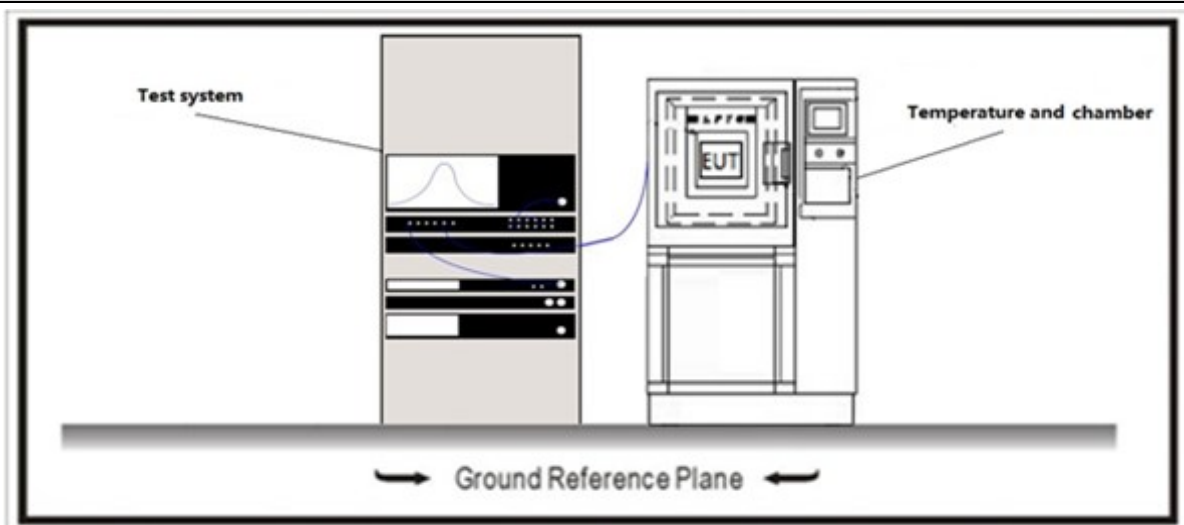
4.2.3 Test Procedure

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.
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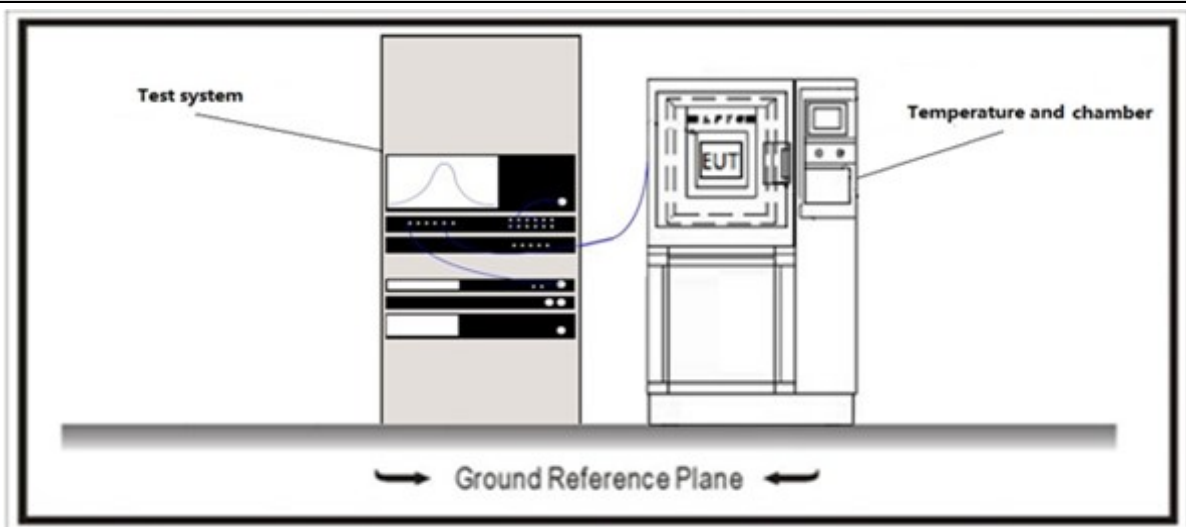
Within the Frequency band.

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**

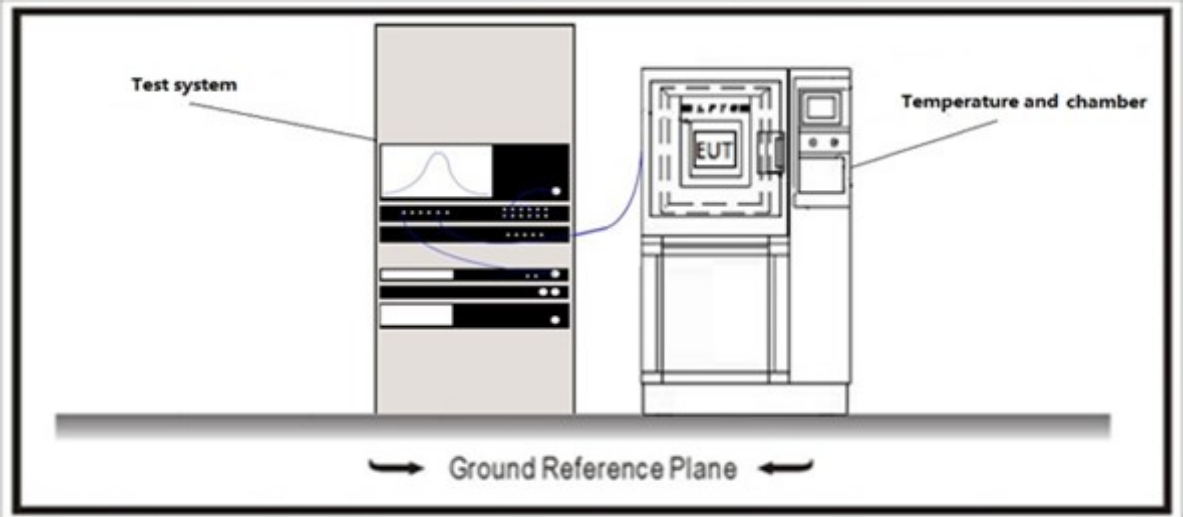
FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e).

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

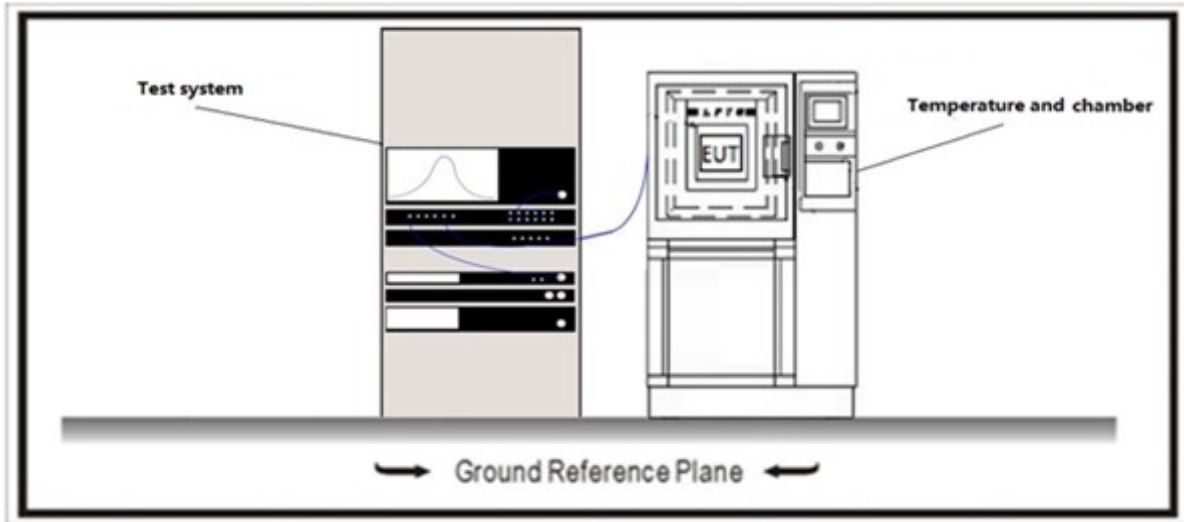
4.6 Power Output**VERDICT: PASS****4.6.1 Limit**

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
		☐ ANSI C63.10	12.4.2.2	Method SA-1
		☐ ANSI C63.10	12.4.2.3	Method SA-1A (alternative)
		☐ ANSI C63.10	12.4.2.4	Method SA-2
		☐ ANSI C63.10	12.4.2.5	Method SA-2A (alternative)
		☐ ANSI C63.10	12.4.2.6	Method SA-3
		☐ ANSI C63.10	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

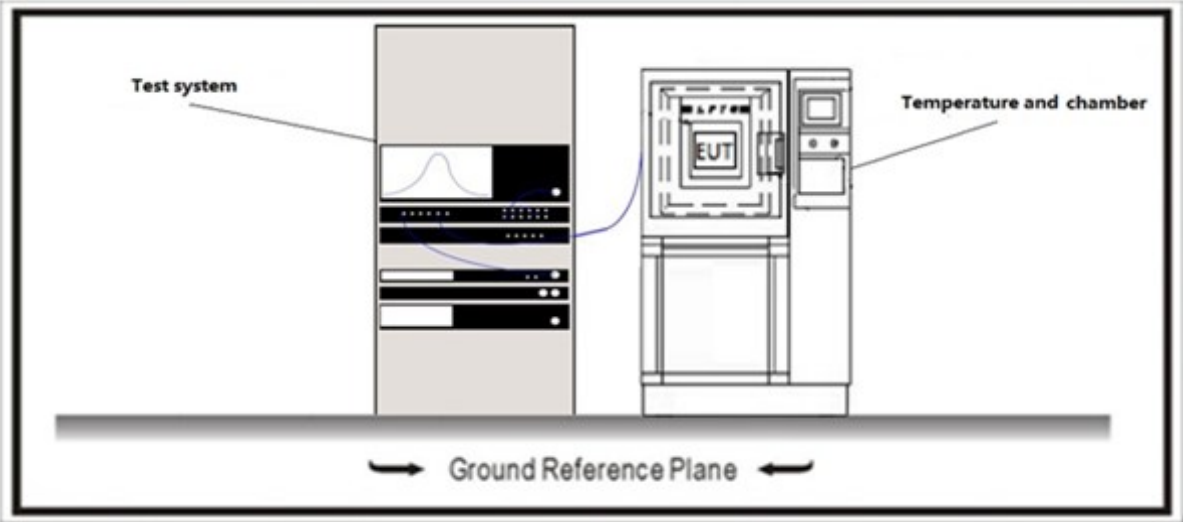
VERDICT: PASS

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)

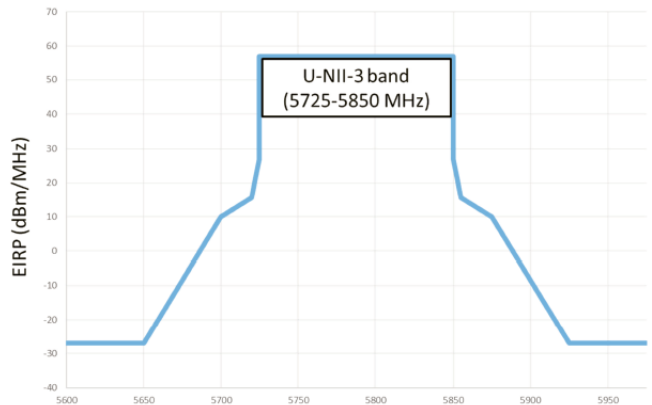
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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).

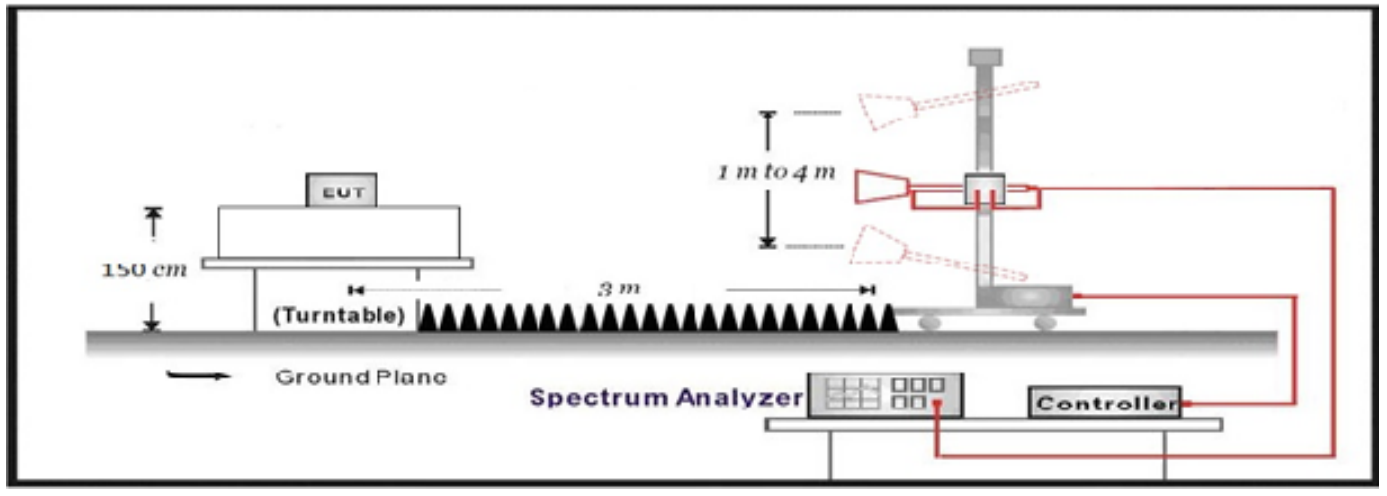
FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit).

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.

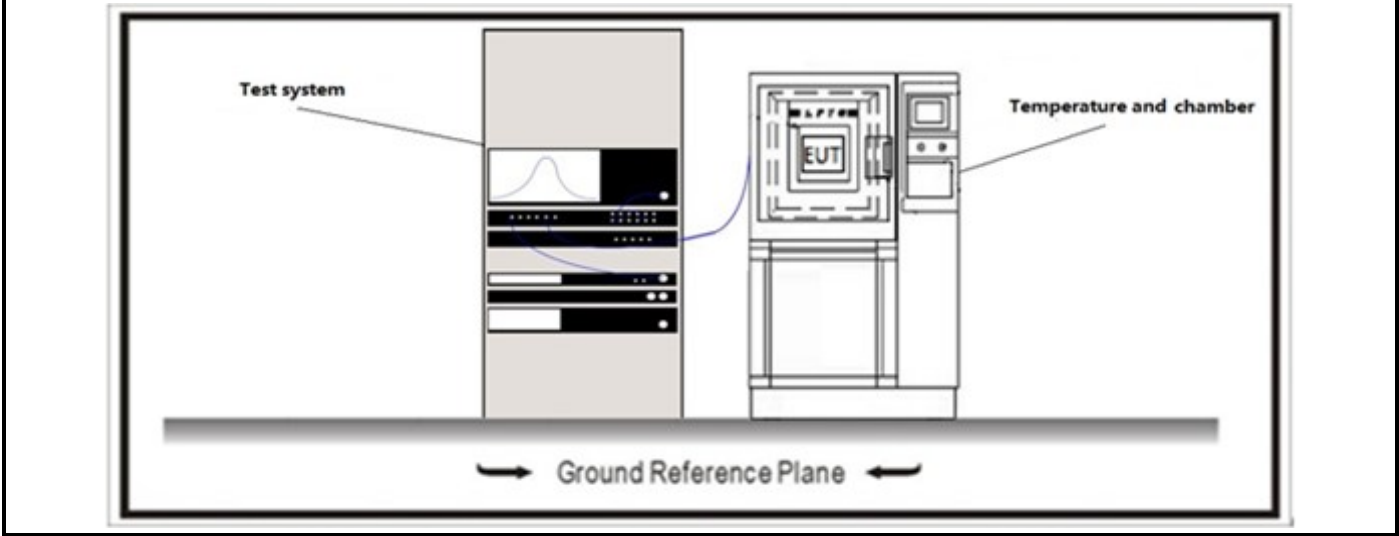
4.9 Frequency Stability

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

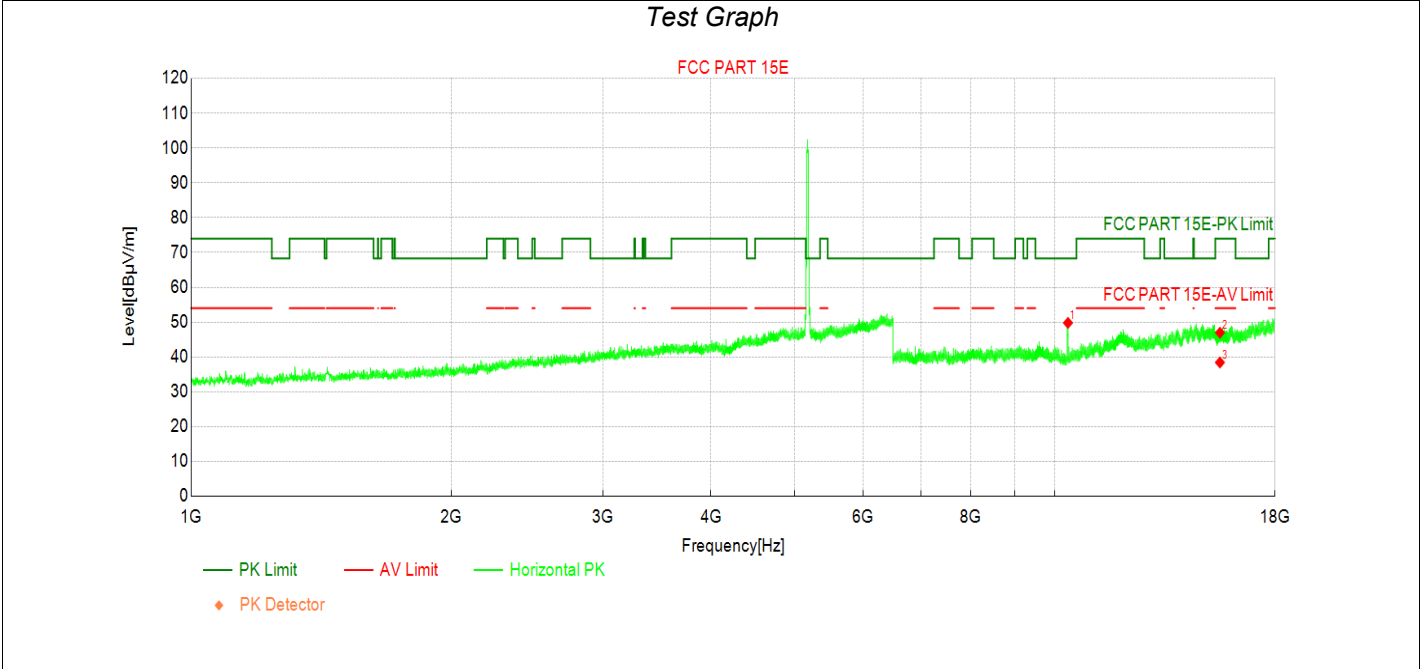
Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

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

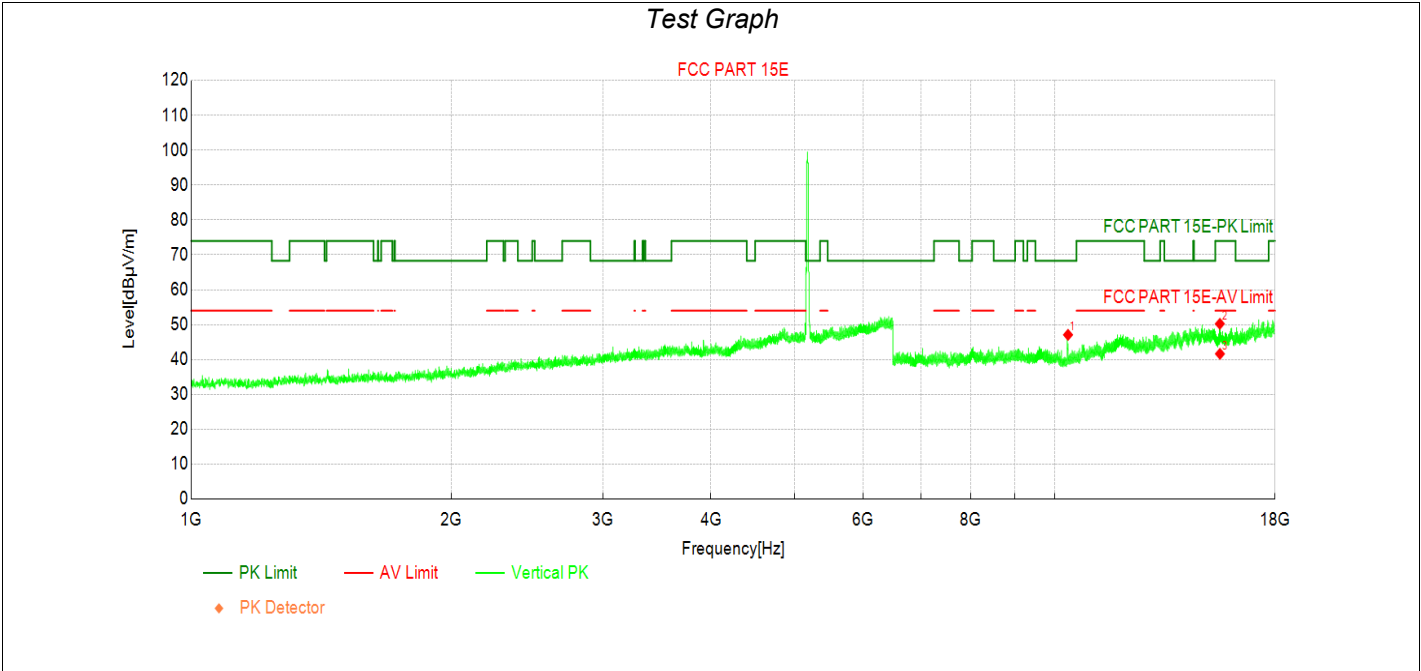
6 TEST RESULT
Appendix A: Radiated Emission

Transmit at 5180MHz by 802.11a with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10362.56	42.55	49.80	7.25	68.30	18.50	PK	Horizo	PASS
2	15540.00	31.20	46.98	15.78	74.00	27.02	PK	Horizo	PASS
3	15540.00	22.66	38.44	15.78	54.00	15.56	AV	Horizo	PASS

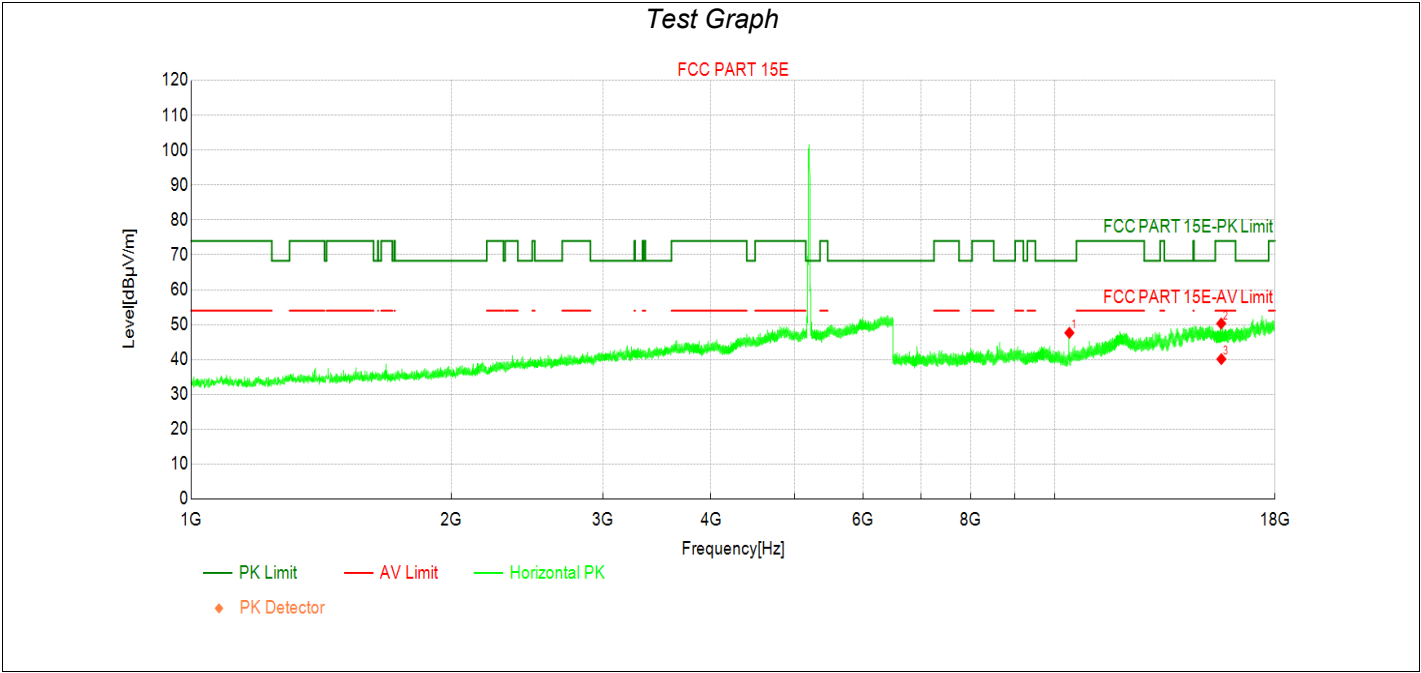
Transmit at 5180MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10363.04	39.83	47.08	7.25	68.30	21.22	PK	Vertic	PASS
2	15536.13	34.47	50.25	15.78	74.00	23.75	PK	Vertic	PASS
3	15540.92	25.86	41.64	15.78	54.00	12.36	AV	Vertic	PASS

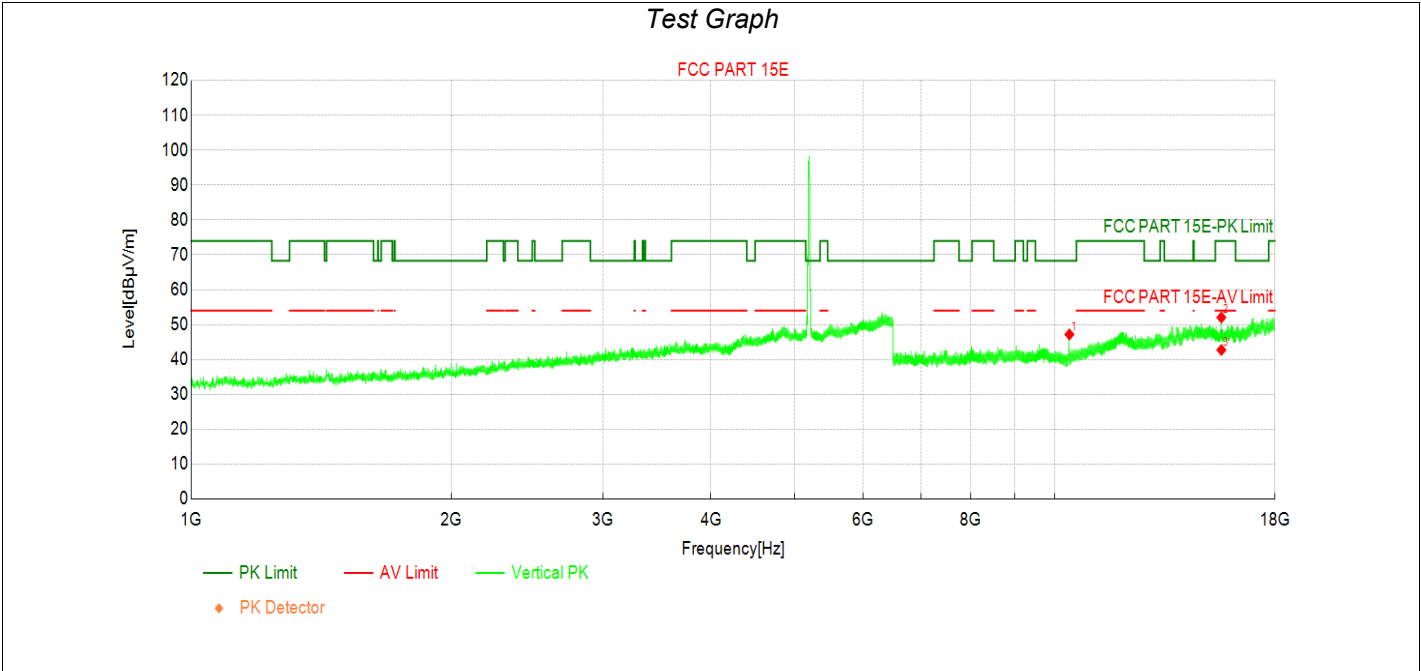
Transmit at 5200MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10401.85	40.34	47.66	7.32	68.30	20.64	PK	Horizo	PASS
2	15593.15	34.59	50.33	15.74	74.00	23.67	PK	Horizo	PASS
3	15600.00	24.39	40.13	15.74	54.00	13.87	AV	Horizo	PASS

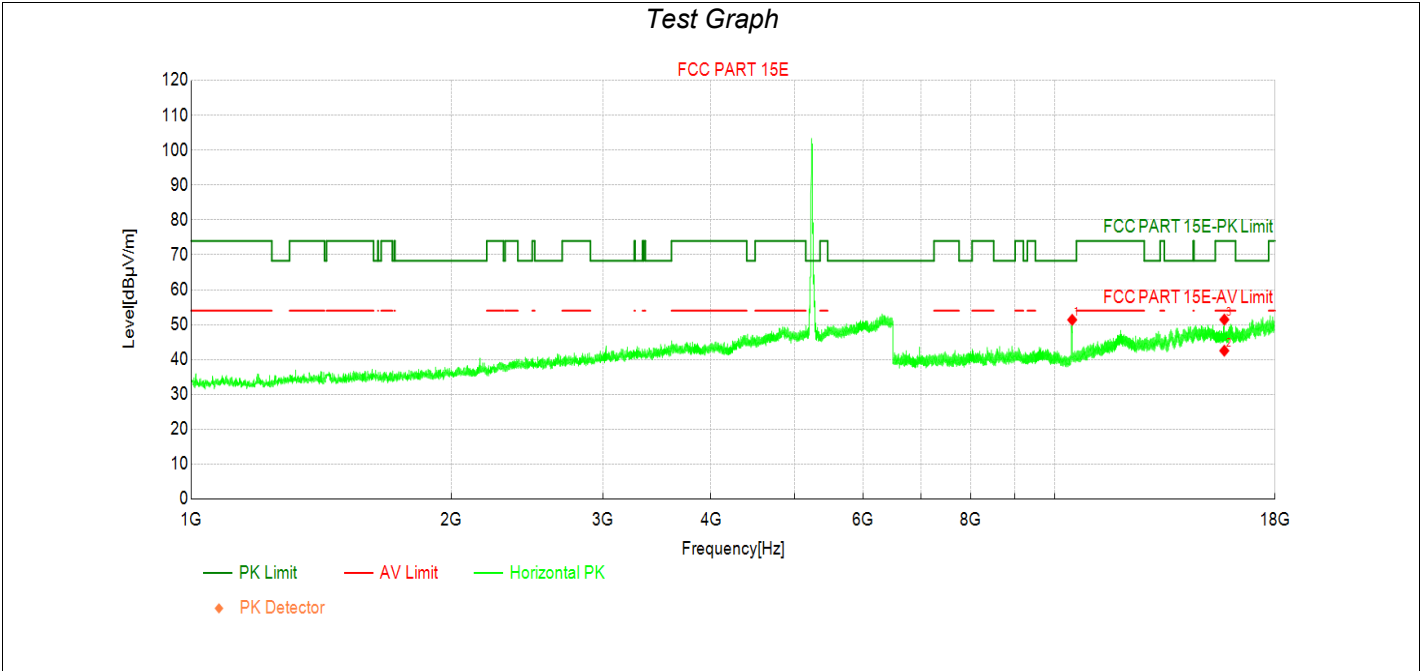
Transmit at 5200MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10401.85	39.87	47.19	7.32	68.30	21.11	PK	Vertic	PASS
2	15597.94	36.32	52.06	15.74	74.00	21.94	PK	Vertic	PASS
3	15599.38	27.01	42.75	15.74	54.00	11.25	AV	Vertic	PASS

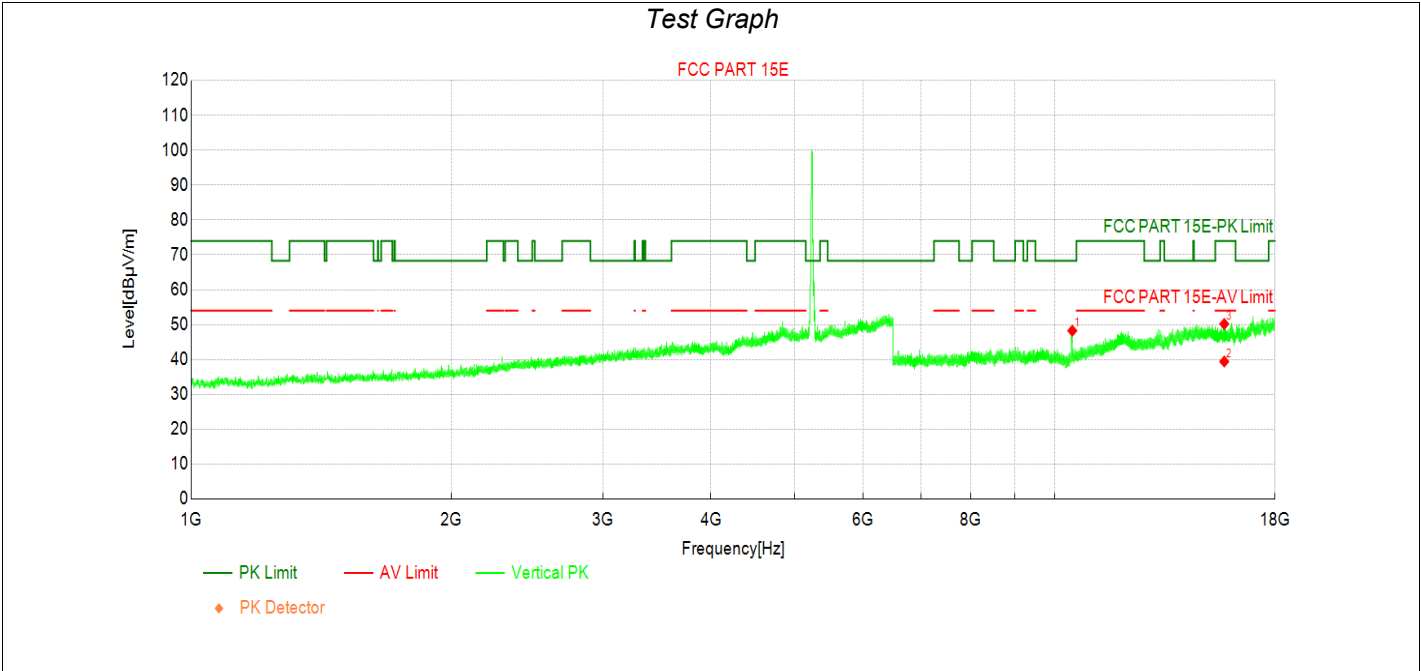
Transmit at 5240MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10479.96	43.62	51.38	7.76	68.30	16.92	PK	Horizo	PASS
2	15721.56	26.66	42.53	15.87	54.00	11.47	AV	Horizo	PASS
3	15723.48	35.59	51.46	15.87	74.00	22.54	PK	Horizo	PASS

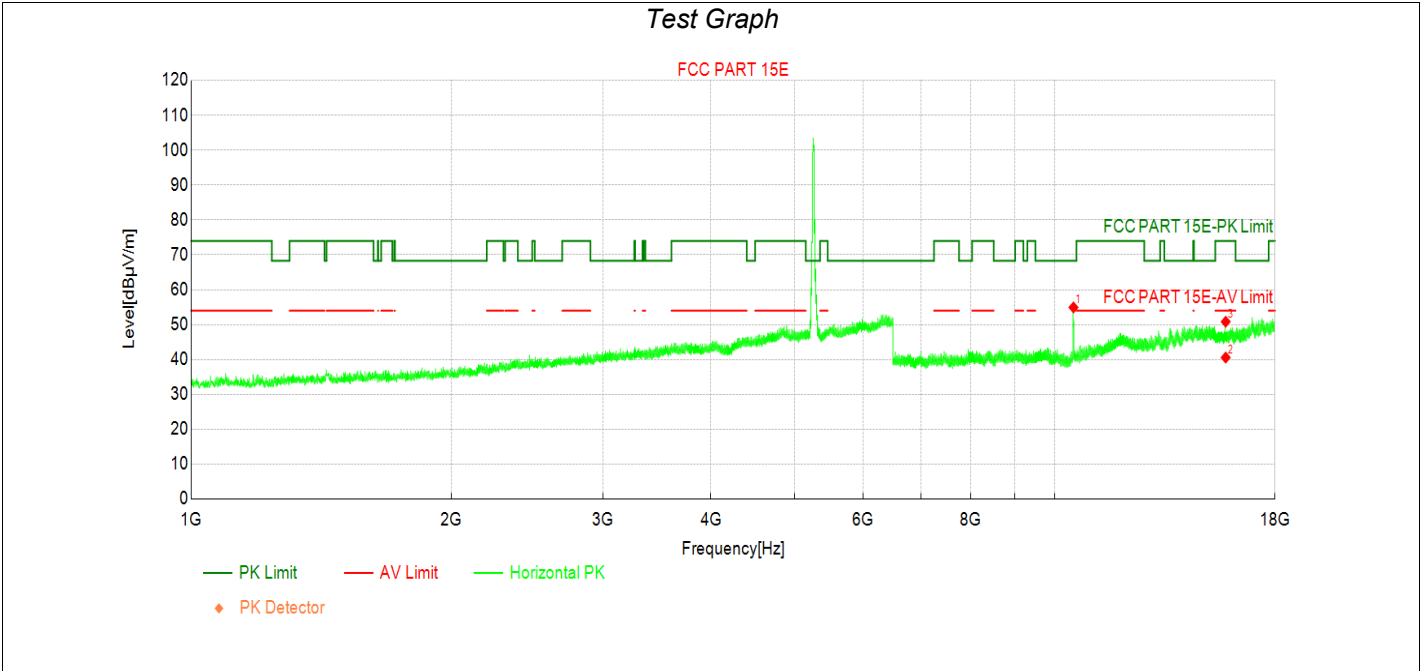
Transmit at 5240MHz by 802.11a with Ant1



Data List

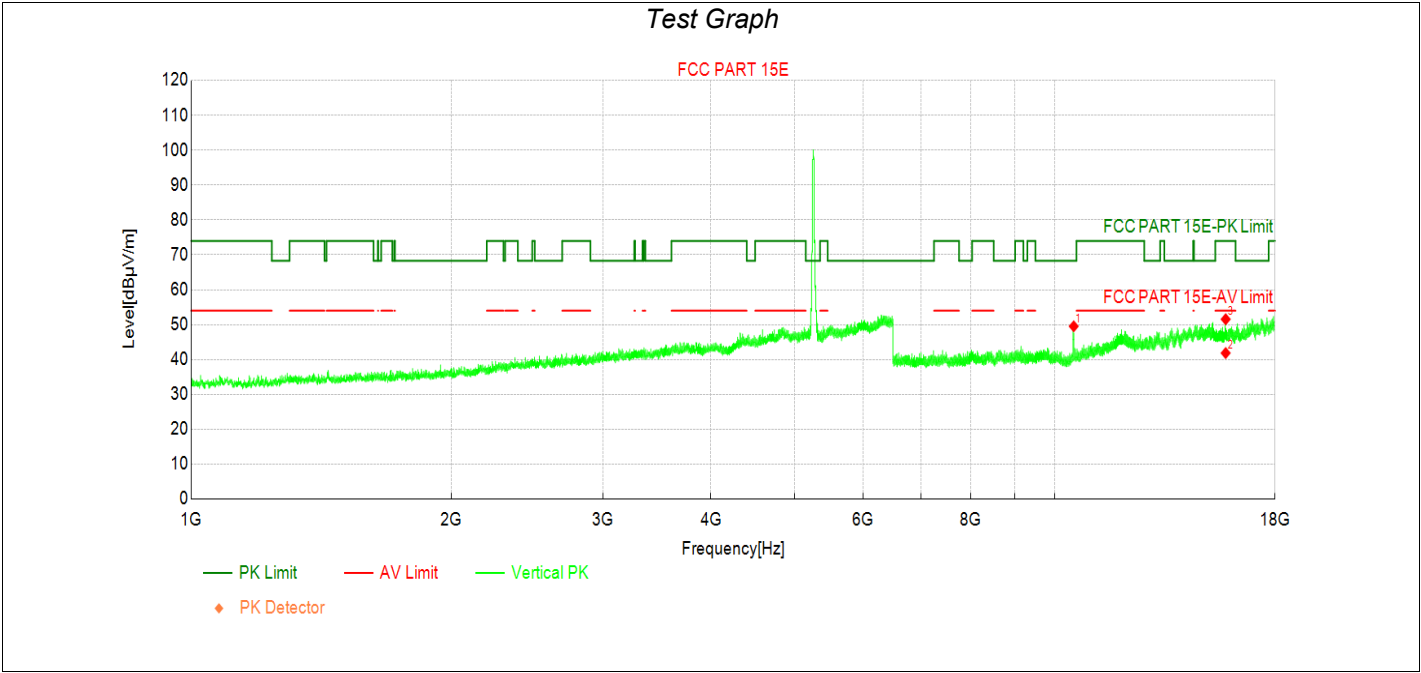
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10482.83	40.50	48.27	7.77	68.30	20.03	PK	Vertic	PASS
2	15720.00	23.57	39.43	15.86	54.00	14.57	AV	Vertic	PASS
3	15720.60	34.35	50.22	15.87	74.00	23.78	PK	Vertic	PASS

Transmit at 5260MHz by 802.11a with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10516.38	47.05	54.94	7.89	68.30	13.36	PK	Horizo	PASS
2	15780.00	24.62	40.58	15.96	54.00	13.42	AV	Horizo	PASS
3	15781.46	34.90	50.86	15.96	74.00	23.14	PK	Horizo	PASS

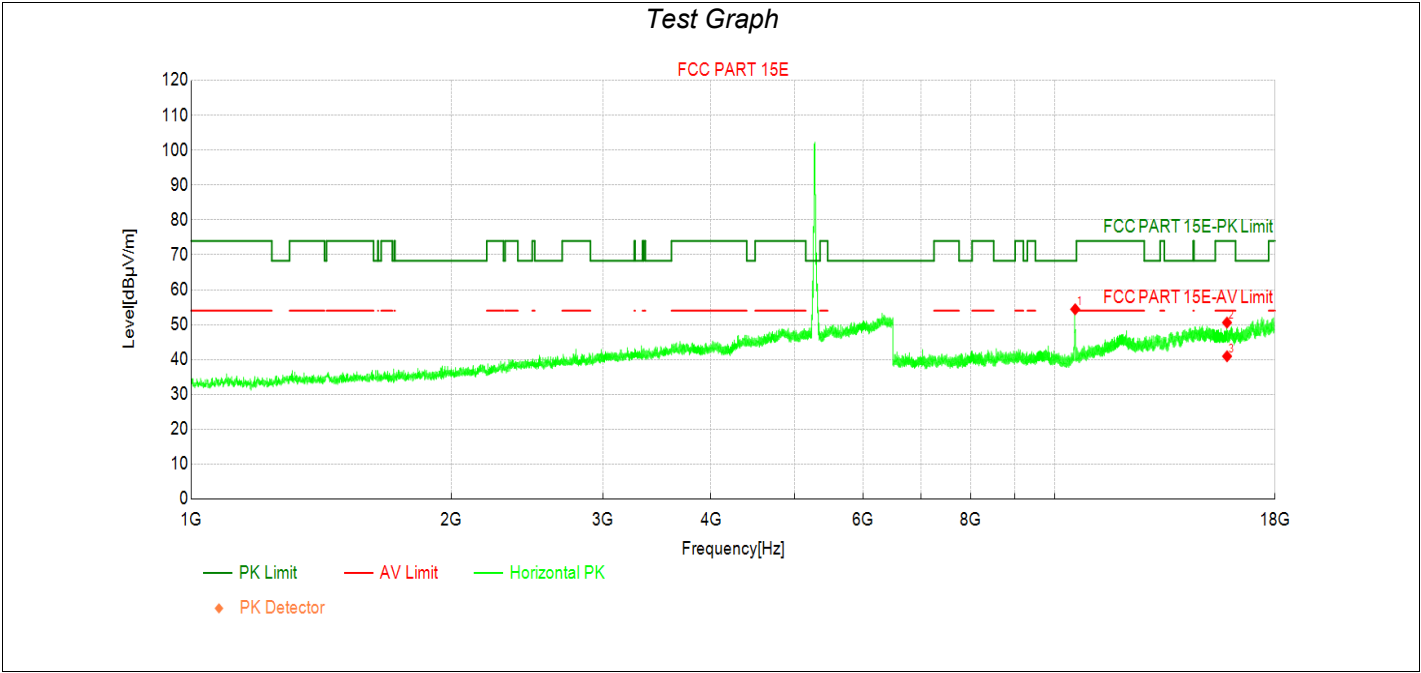
Transmit at 5260MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10522.60	41.62	49.53	7.91	68.30	18.77	PK	Vertic	PASS
2	15779.06	25.91	41.87	15.96	54.00	12.13	AV	Vertic	PASS
3	15780.00	35.59	51.55	15.96	74.00	22.45	PK	Vertic	PASS

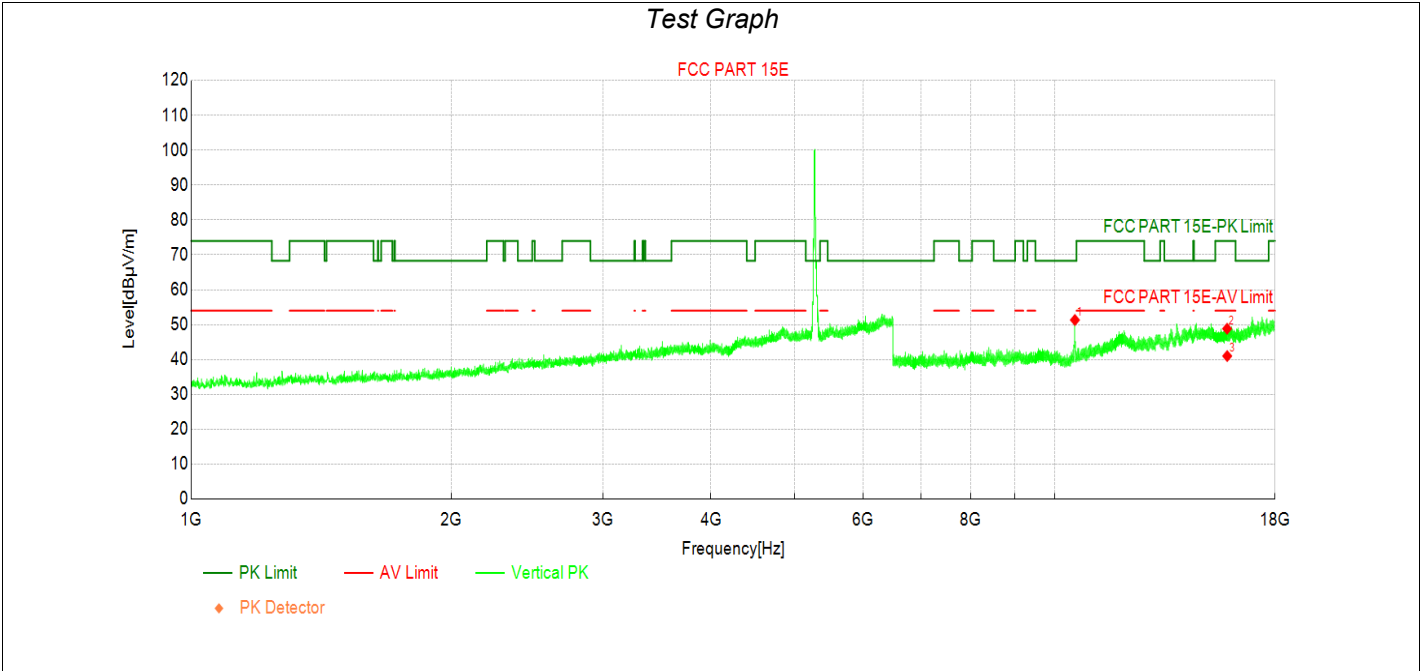
Transmit at 5280MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10563.81	46.43	54.42	7.99	68.30	13.88	PK	Horizo	PASS
2	15835.13	34.48	50.58	16.10	74.00	23.42	PK	Horizo	PASS
3	15838.00	24.83	40.93	16.10	54.00	13.07	AV	Horizo	PASS

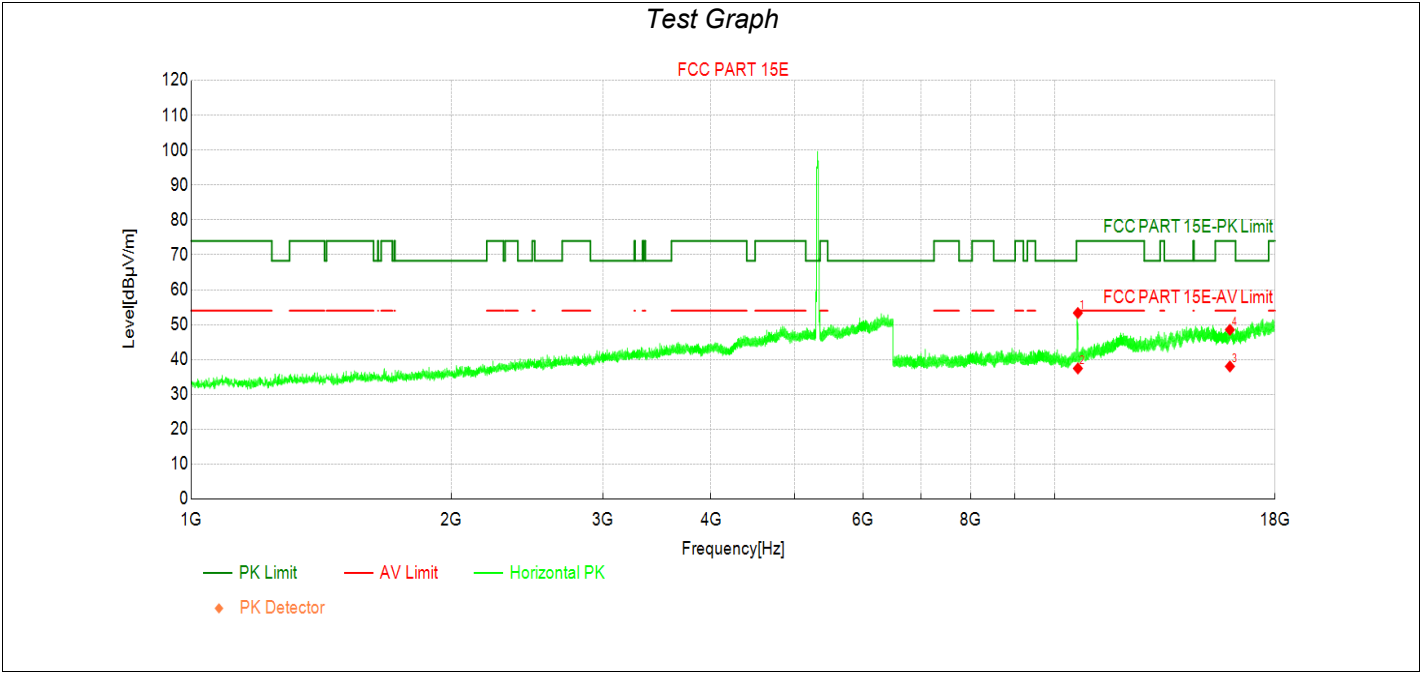
Transmit at 5280MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10556.15	43.37	51.34	7.97	68.30	16.96	PK	Vertic	PASS
2	15840.00	32.73	48.84	16.11	74.00	25.16	PK	Vertic	PASS
3	15844.71	24.89	41.01	16.12	54.00	12.99	AV	Vertic	PASS

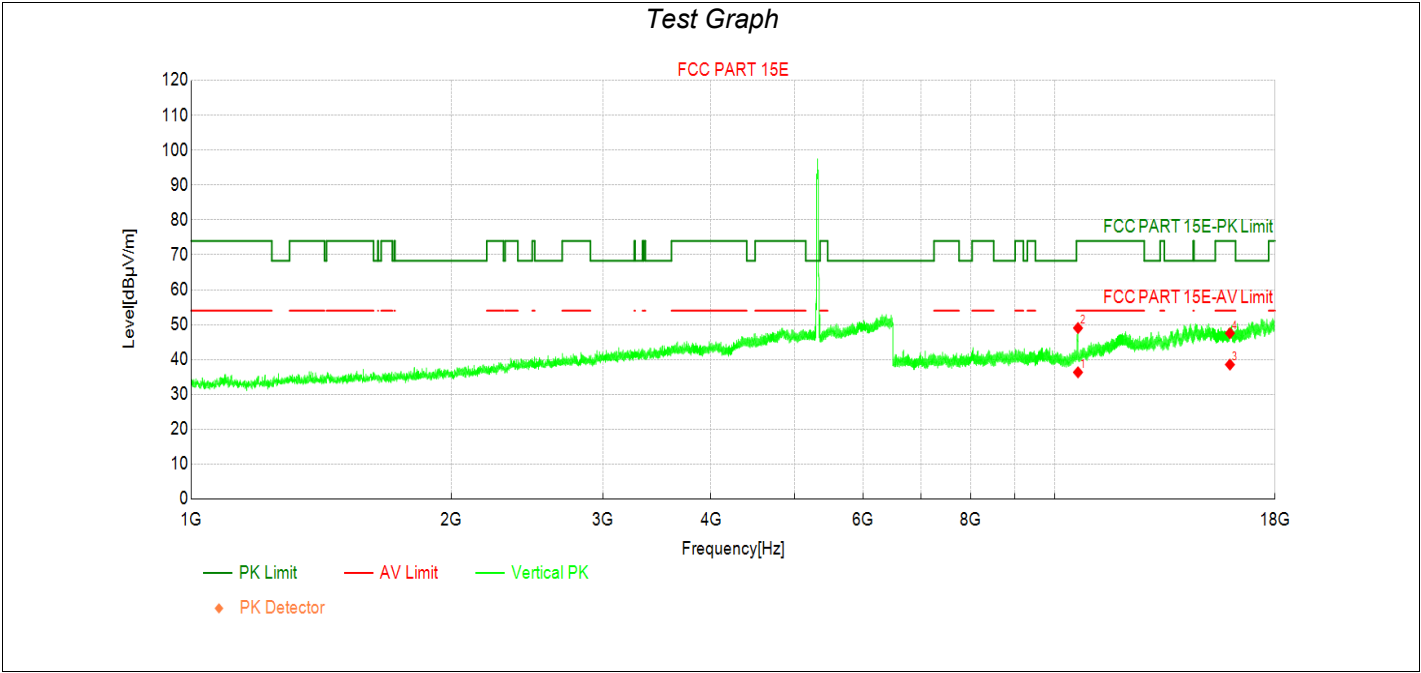
Transmit at 5320MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10639.52	45.34	53.35	8.01	74.00	20.65	PK	Horizo	PASS
2	10640.00	29.44	37.45	8.01	54.00	16.55	AV	Horizo	PASS
3	15960.00	21.49	38.03	16.54	54.00	15.97	AV	Horizo	PASS
4	15960.00	31.99	48.53	16.54	74.00	25.47	PK	Horizo	PASS

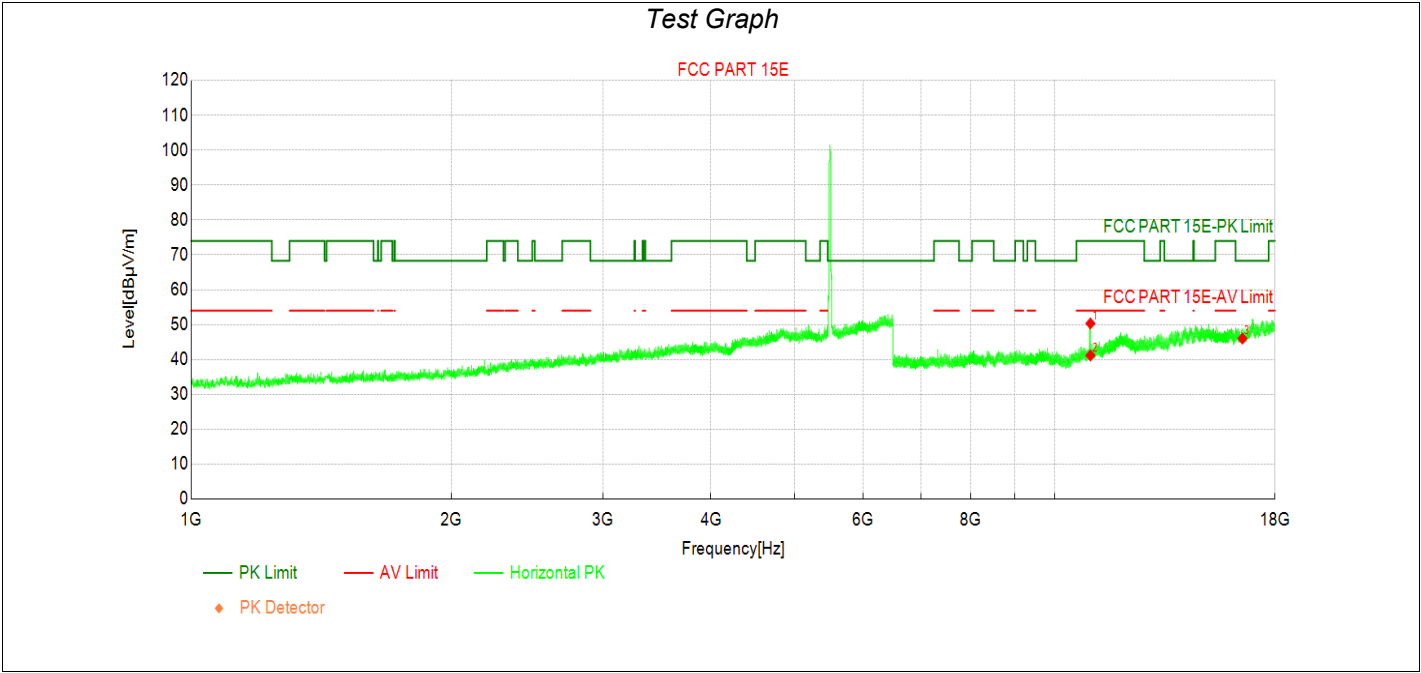
Transmit at 5320MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10642.88	28.33	36.34	8.01	54.00	17.66	AV	Vertic	PASS
2	10643.83	41.03	49.04	8.01	74.00	24.96	PK	Vertic	PASS
3	15960.00	22.02	38.56	16.54	54.00	15.44	AV	Vertic	PASS
4	15960.00	31.01	47.55	16.54	74.00	26.45	PK	Vertic	PASS

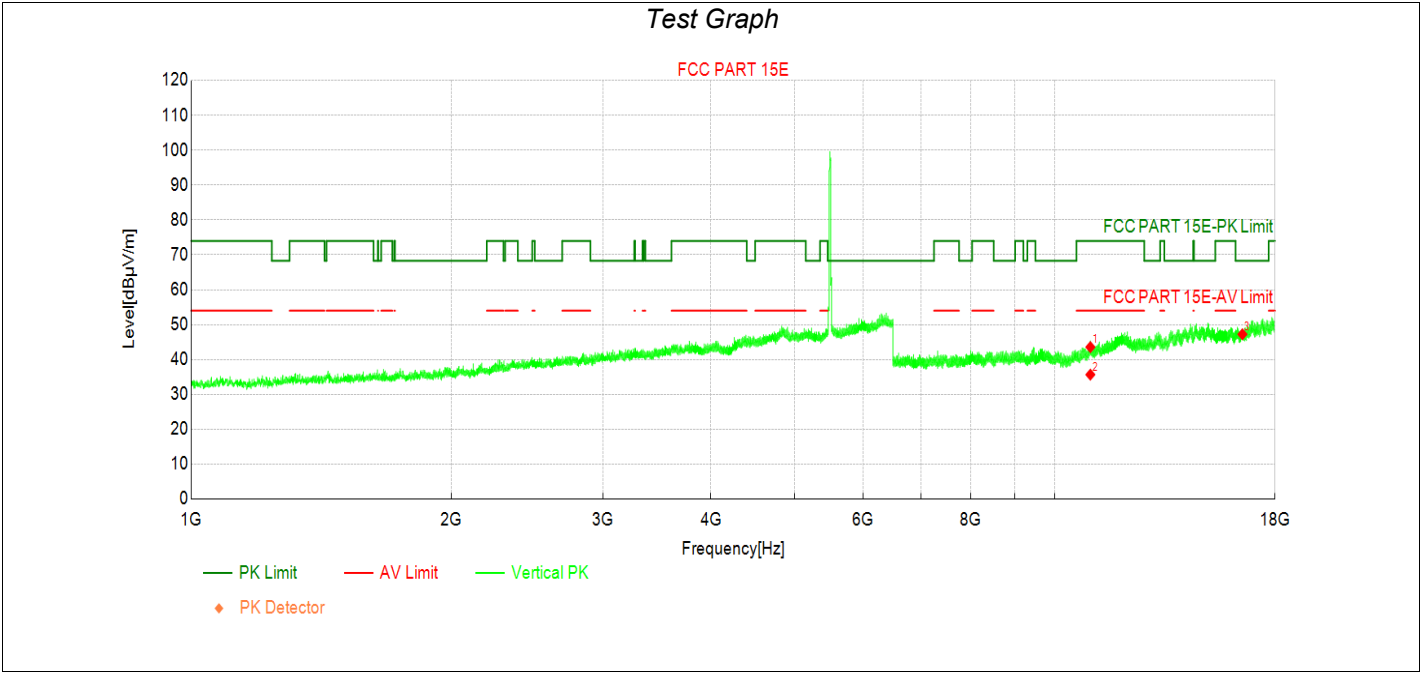
Transmit at 5500MHz by 802.11a with Ant1



Data List

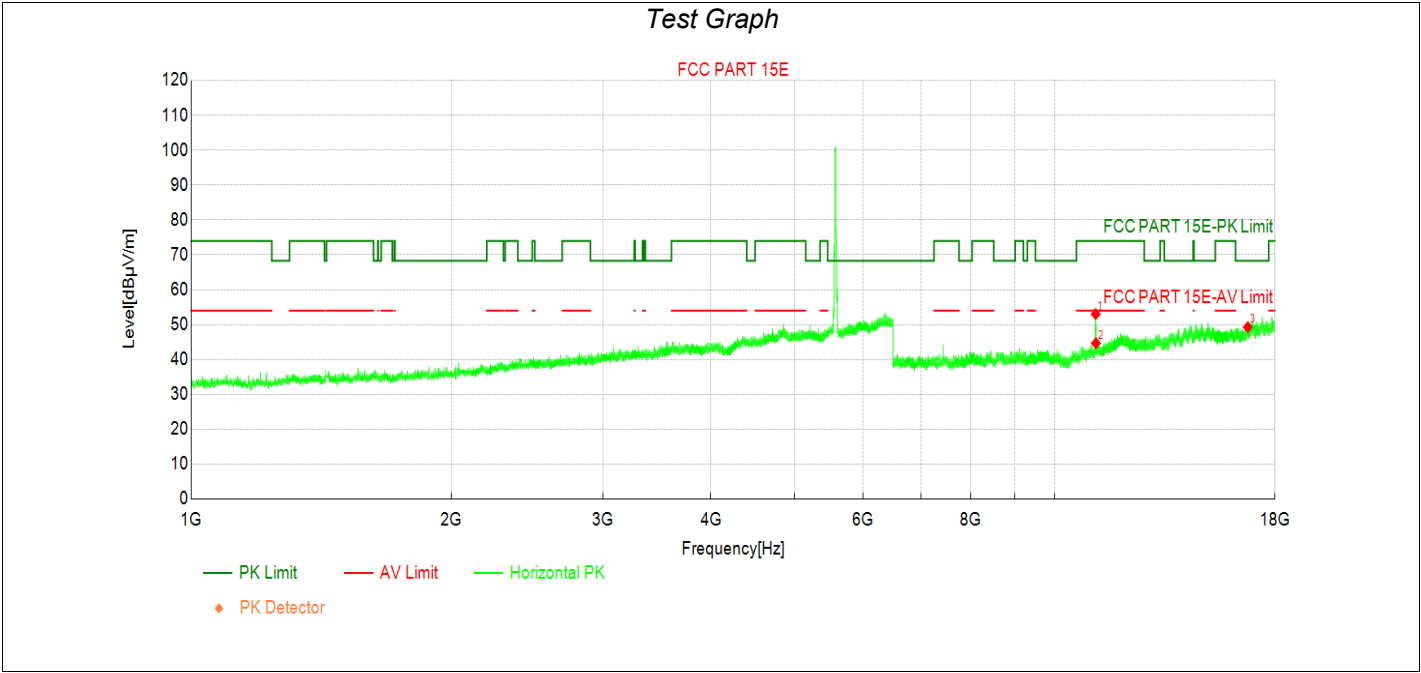
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.81	41.24	50.35	9.11	74.00	23.65	PK	Horizo	PASS
2	11002.73	32.10	41.20	9.10	54.00	12.80	AV	Horizo	PASS
3	16500.00	29.21	46.03	16.82	68.30	22.27	PK	Horizo	PASS

Transmit at 5500MHz by 802.11a with Ant1



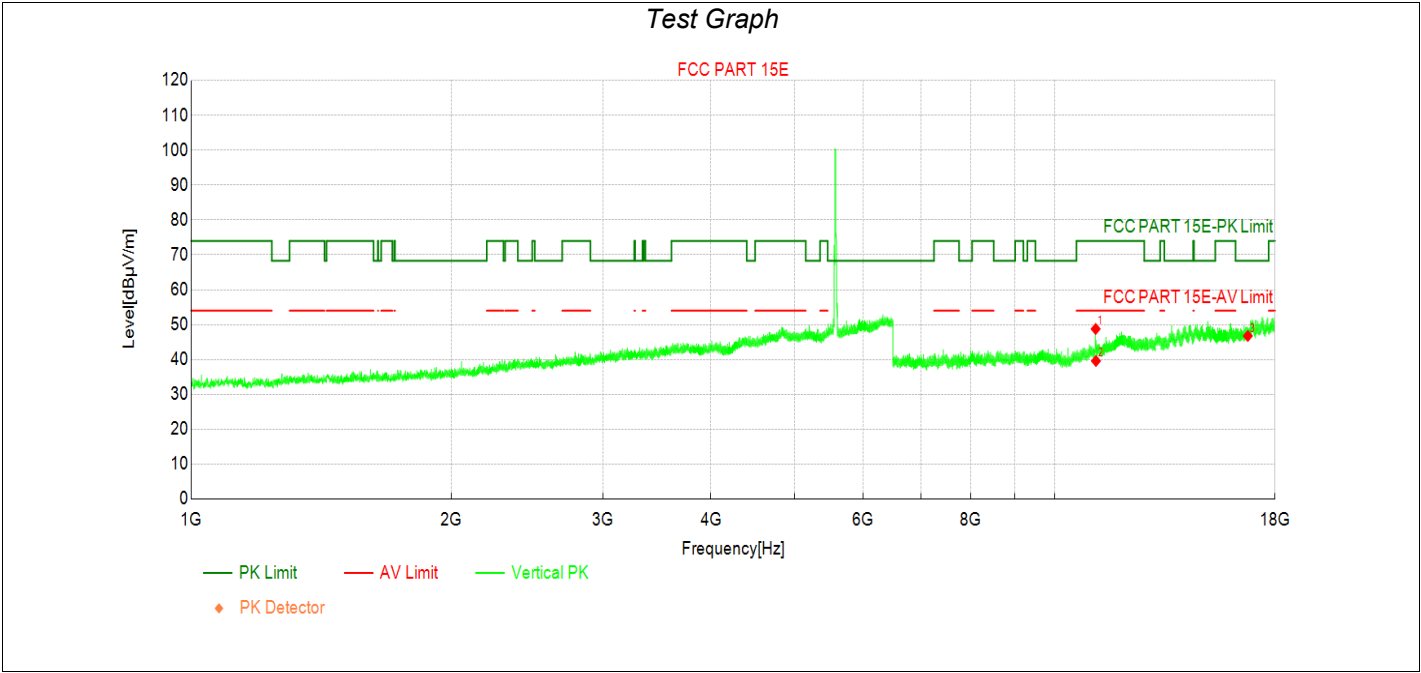
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	34.46	43.57	9.11	74.00	30.43	PK	Vertic	PASS
2	11000.00	26.57	35.68	9.11	54.00	18.32	AV	Vertic	PASS
3	16500.00	30.43	47.25	16.82	68.30	21.05	PK	Vertic	PASS

Transmit at 5580MHz by 802.11a with Ant1



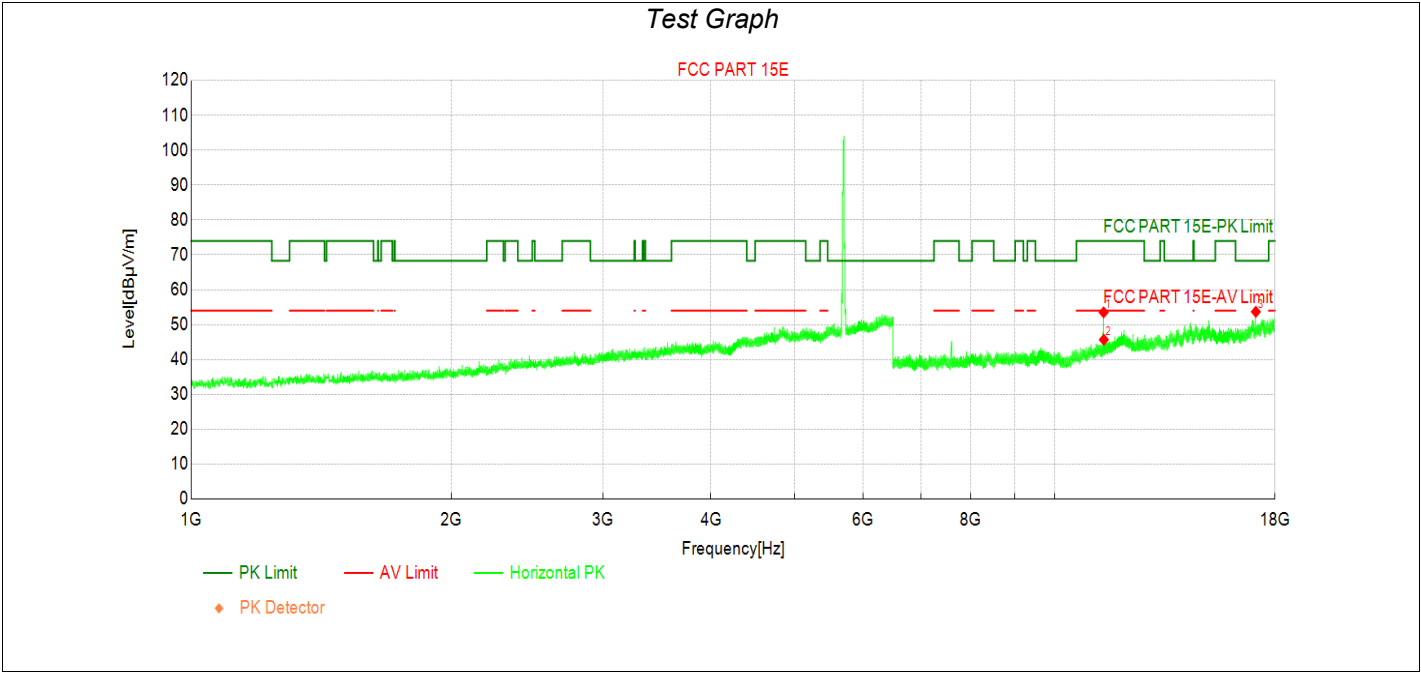
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11156.06	43.84	53.03	9.19	74.00	20.97	PK	Horizo	PASS
2	11164.21	35.47	44.68	9.21	54.00	9.32	AV	Horizo	PASS
3	16740.00	31.98	49.28	17.30	68.30	19.02	PK	Horizo	PASS

Transmit at 5580MHz by 802.11a with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11156.54	39.59	48.78	9.19	74.00	25.22	PK	Vertic	PASS
2	11164.21	30.40	39.61	9.21	54.00	14.39	AV	Vertic	PASS
3	16740.00	29.47	46.77	17.30	68.30	21.53	PK	Vertic	PASS

Transmit at 5700MHz by 802.11a with Ant1

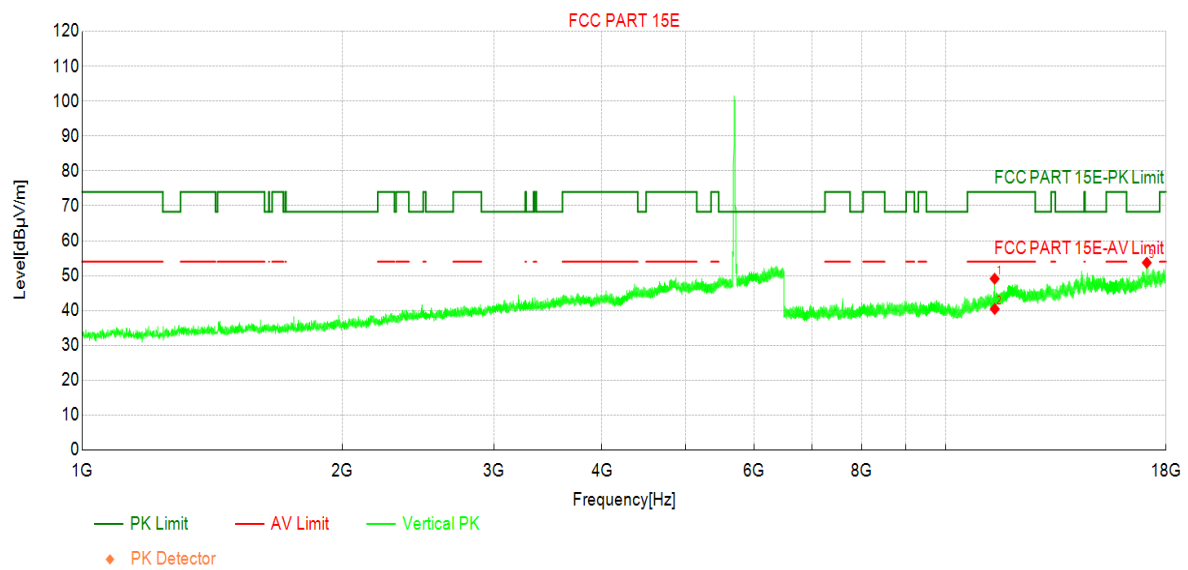


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11396.13	43.66	53.52	9.86	74.00	20.48	PK	Horizo	PASS
2	11401.88	35.80	45.68	9.88	54.00	8.32	AV	Horizo	PASS
3	17101.56	35.35	53.70	18.35	68.30	14.60	PK	Horizo	PASS

Transmit at 5700MHz by 802.11a with Ant1

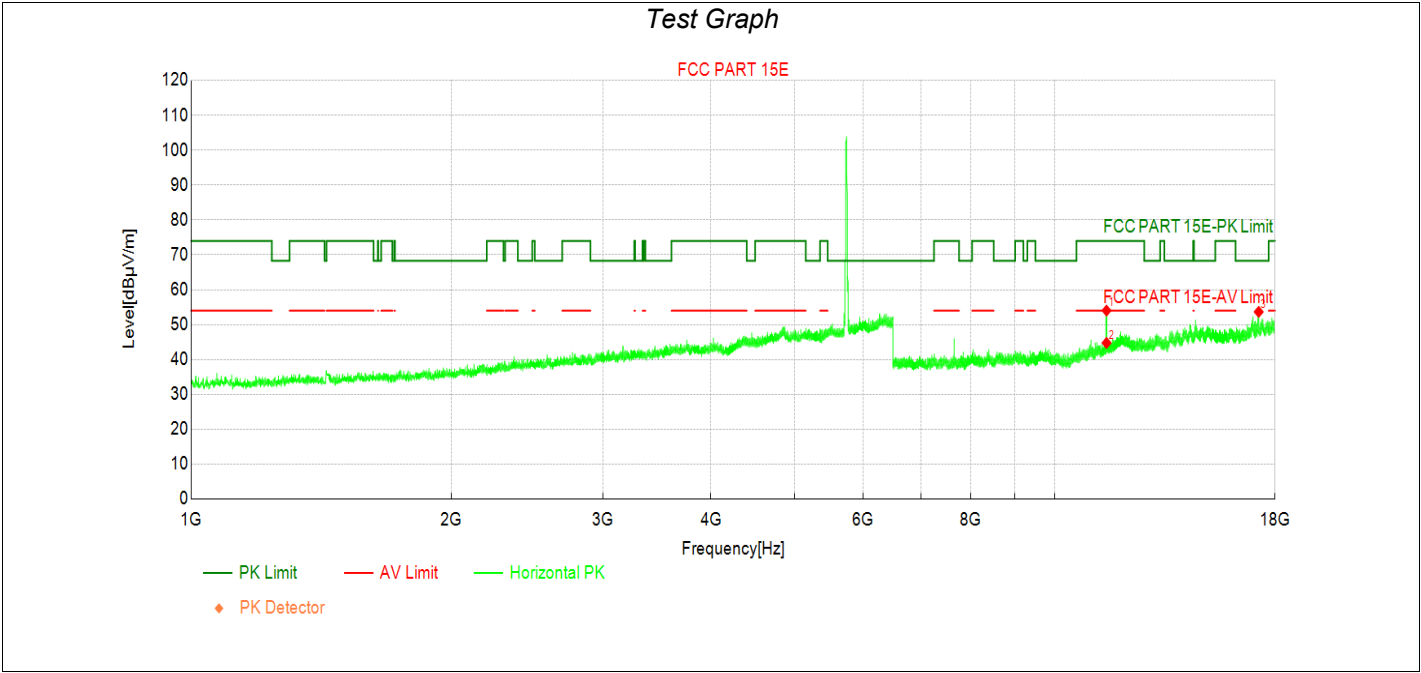
Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11396.60	39.26	49.12	9.86	74.00	24.88	PK	Vertic	PASS
2	11400.00	30.56	40.44	9.88	54.00	13.56	AV	Vertic	PASS
3	17100.00	35.35	53.71	18.36	68.30	14.59	PK	Vertic	PASS

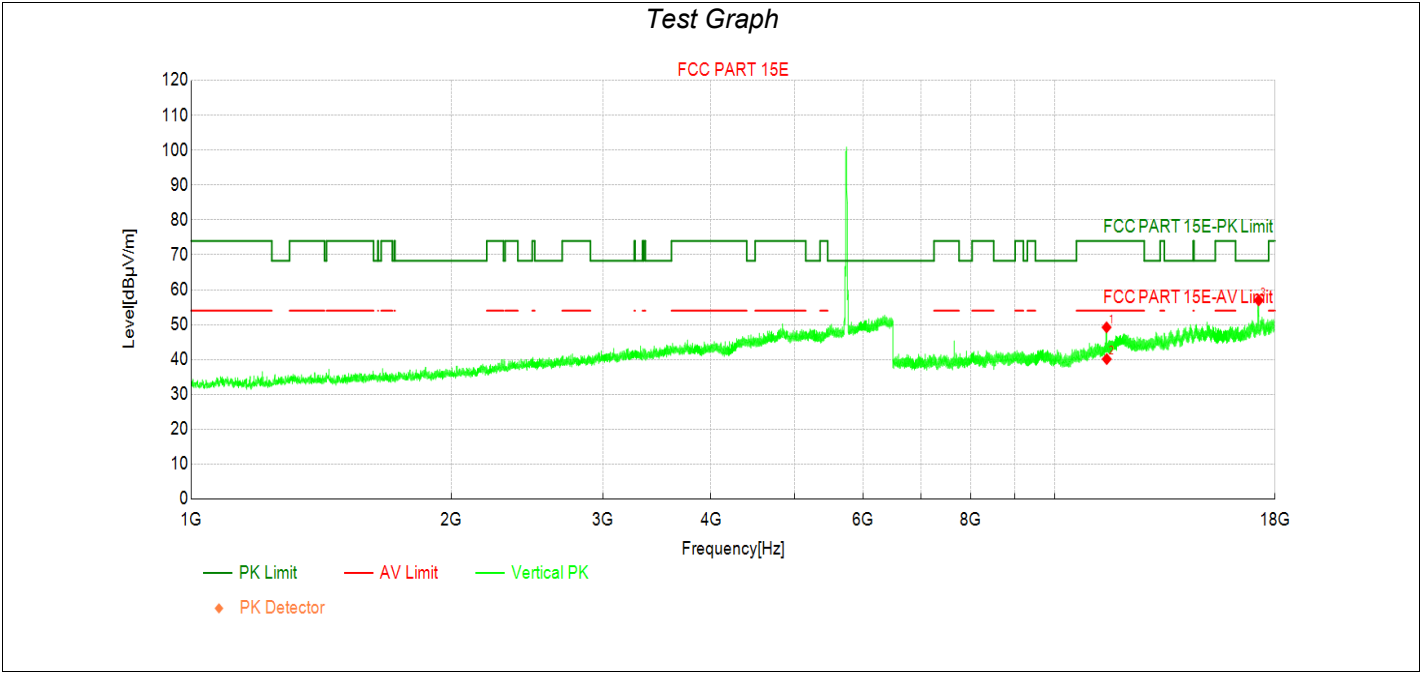
Transmit at 5745MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11484.29	44.05	54.04	9.99	74.00	19.96	PK	Horizo	PASS
2	11484.77	34.78	44.77	9.99	54.00	9.23	AV	Horizo	PASS
3	17231.42	35.76	53.67	17.91	68.30	14.63	PK	Horizo	PASS

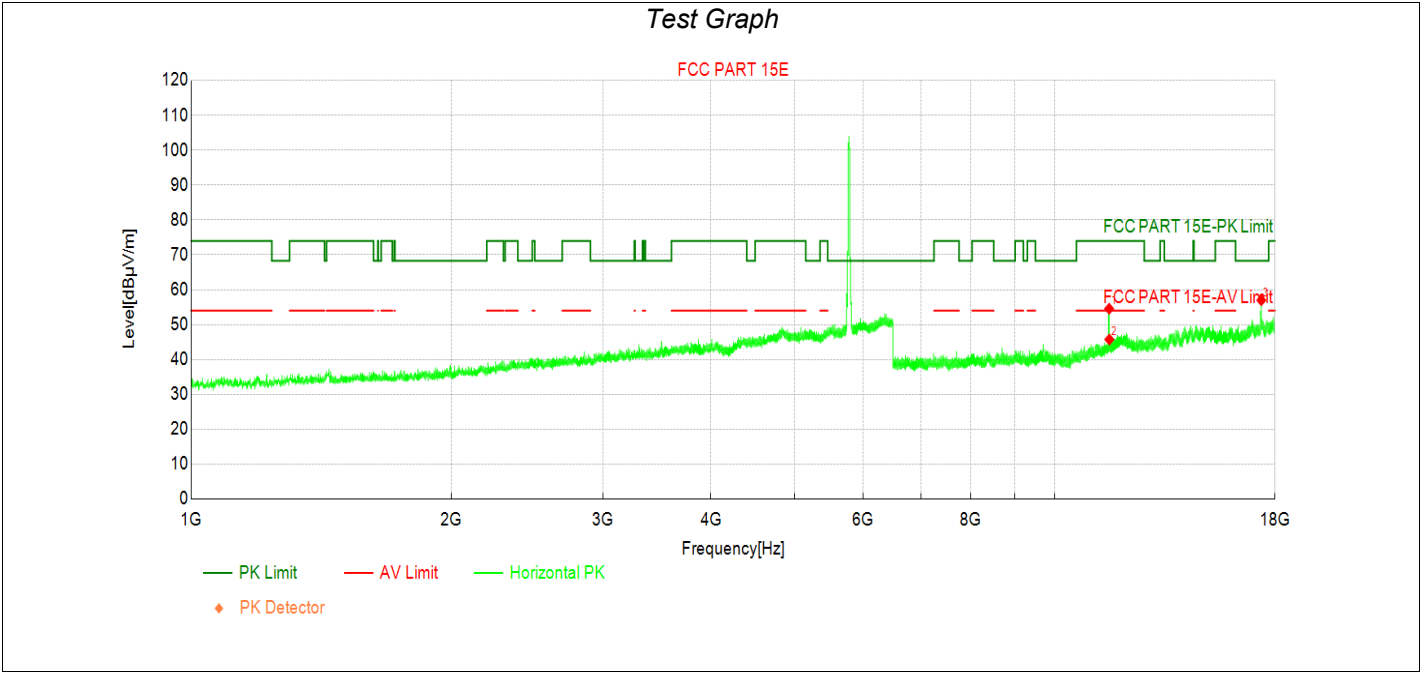
Transmit at 5745MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11486.21	39.24	49.24	10.00	74.00	24.76	PK	Vertic	PASS
2	11491.00	30.14	40.14	10.00	54.00	13.86	AV	Vertic	PASS
3	17234.29	39.04	56.96	17.92	68.30	11.34	PK	Vertic	PASS

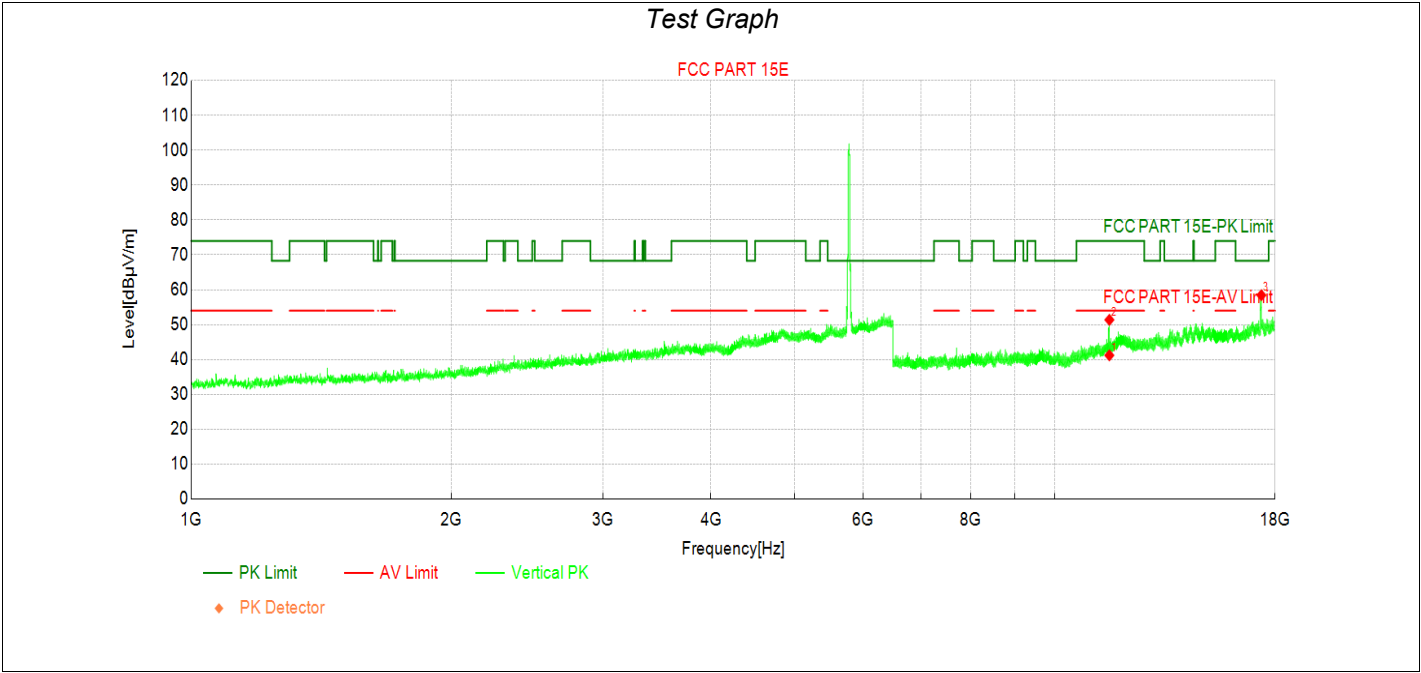
Transmit at 5785MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11565.75	44.10	54.56	10.46	74.00	19.44	PK	Horizo	PASS
2	11570.54	35.26	45.76	10.50	54.00	8.24	AV	Horizo	PASS
3	17352.17	38.13	56.99	18.86	68.30	11.31	PK	Horizo	PASS

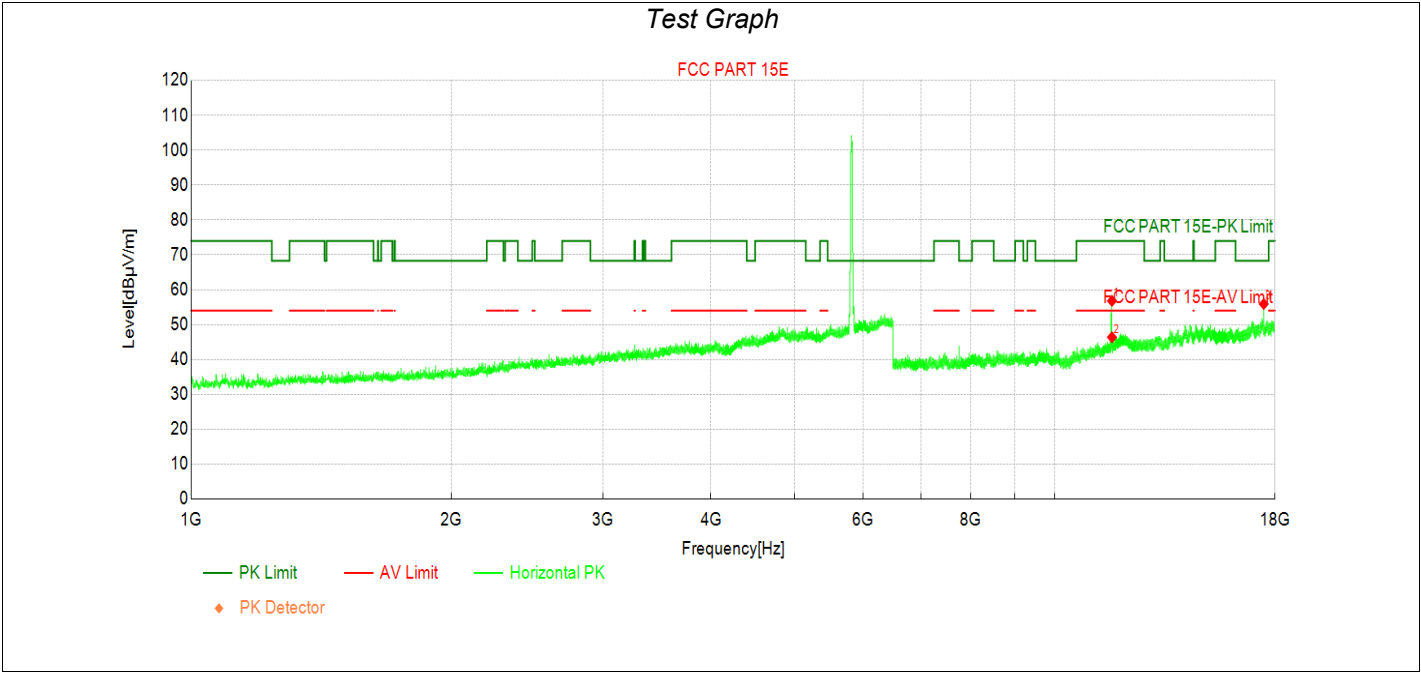
Transmit at 5785MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.54	30.71	41.21	10.50	54.00	12.79	AV	Vertic	PASS
2	11572.46	40.88	51.39	10.51	74.00	22.61	PK	Vertic	PASS
3	17354.56	39.56	58.45	18.89	68.30	9.85	PK	Vertic	PASS

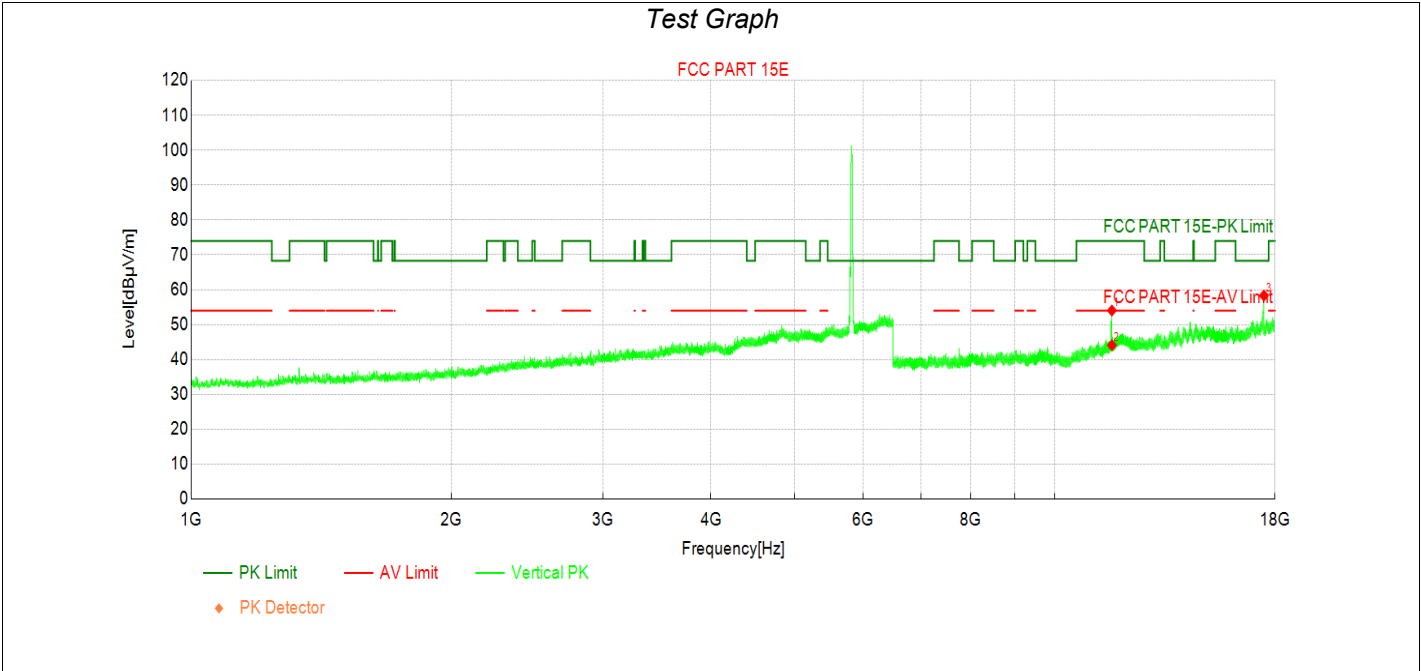
Transmit at 5825MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	11652.00	46.10	56.81	10.71	74.00	17.19	PK	Horizo	PASS
2	11652.48	35.69	46.40	10.71	54.00	7.60	AV	Horizo	PASS
3	17466.21	36.60	55.93	19.33	68.30	12.37	PK	Horizo	PASS

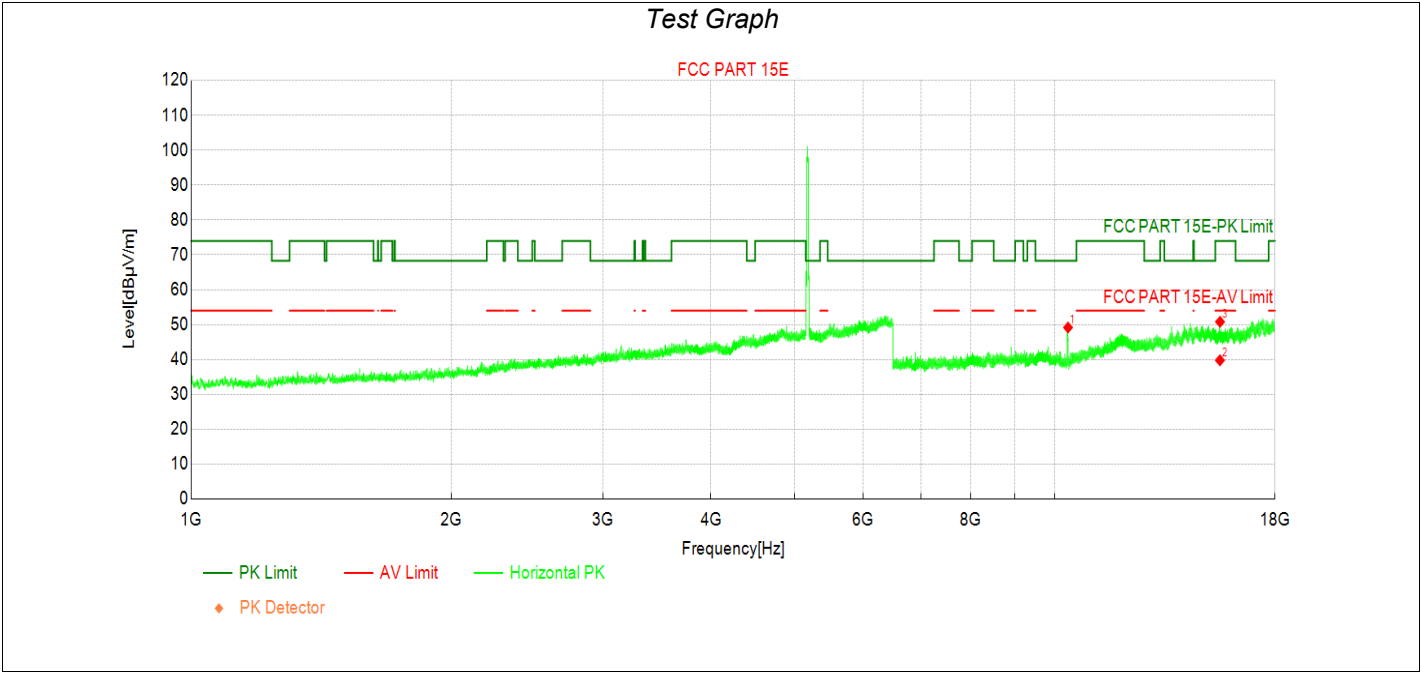
Transmit at 5825MHz by 802.11a with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.08	43.34	54.05	10.71	74.00	19.95	PK	Vertic	PASS
2	11650.56	33.41	44.12	10.71	54.00	9.88	AV	Vertic	PASS
3	17473.40	39.04	58.35	19.31	68.30	9.95	PK	Vertic	PASS

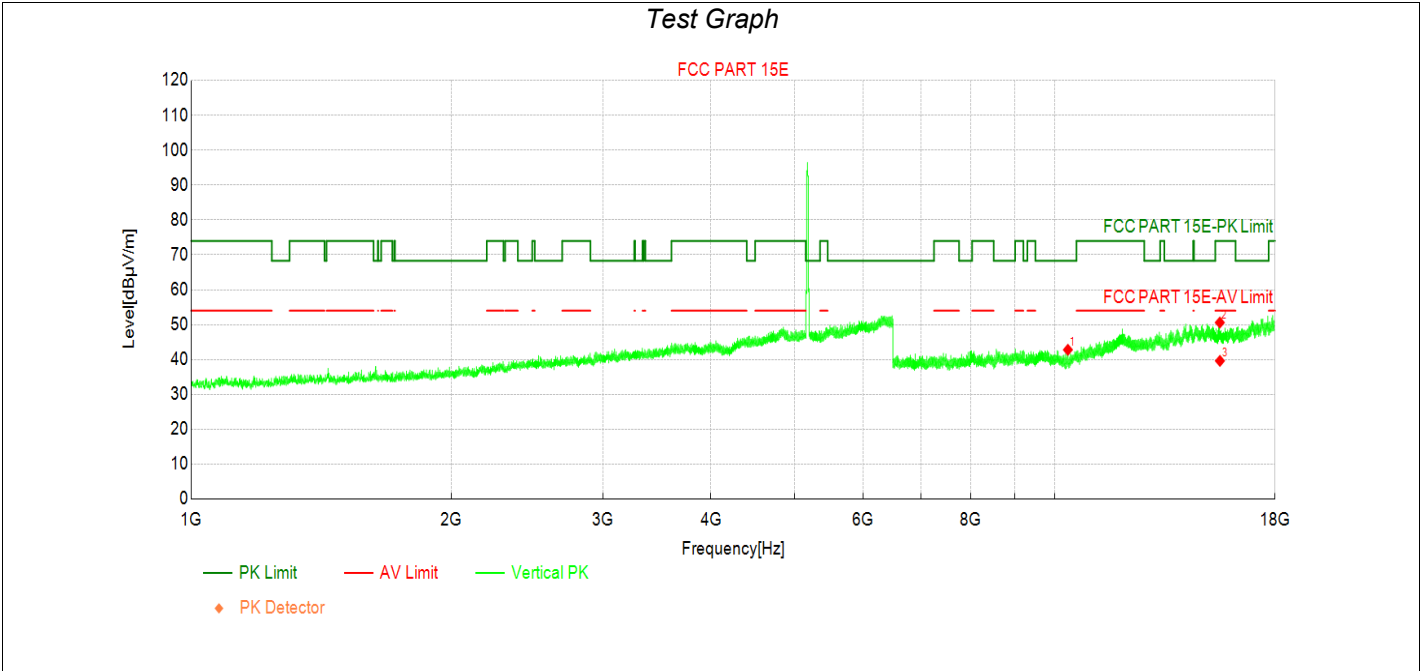
Transmit at 5180MHz by 802.11n(20MHz) with Ant1



Data List

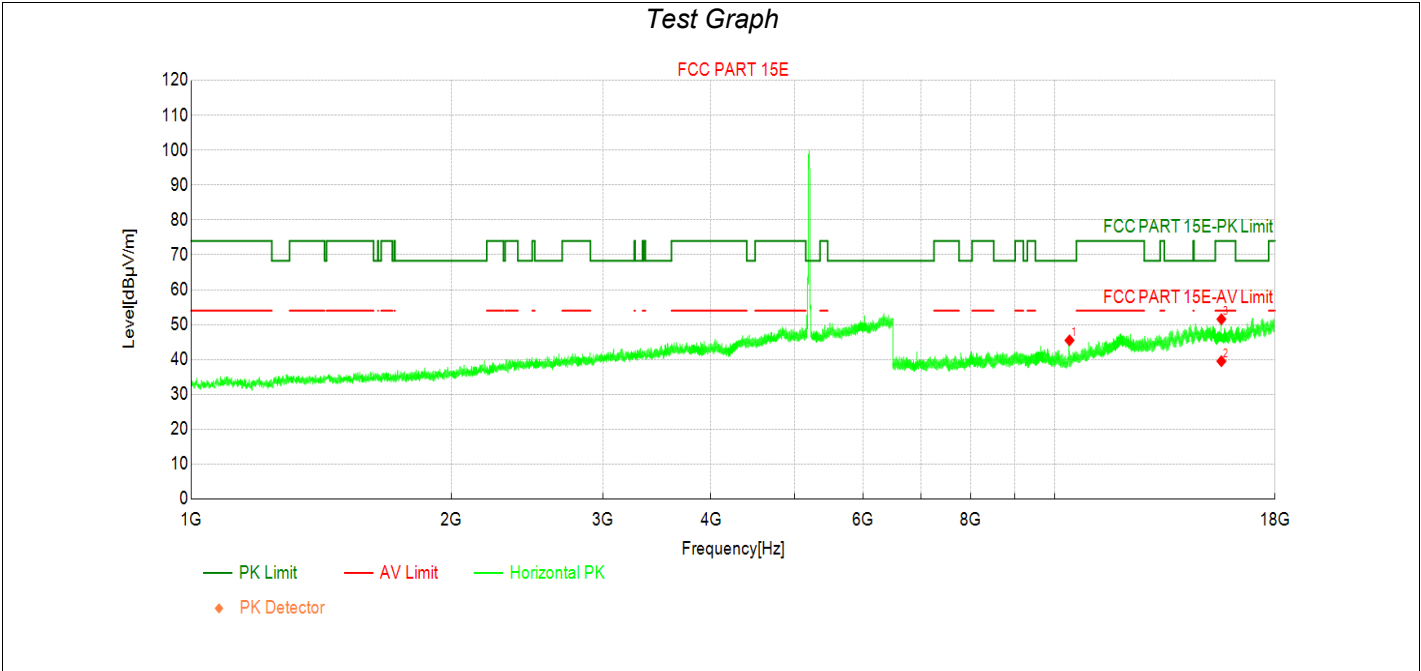
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10363.52	41.93	49.18	7.25	68.30	19.12	PK	Horizo	PASS
2	15540.00	24.02	39.80	15.78	54.00	14.20	AV	Horizo	PASS
3	15545.23	35.04	50.82	15.78	74.00	23.18	PK	Horizo	PASS

Transmit at 5180MHz by 802.11n(20MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	35.55	42.80	7.25	68.30	25.50	PK	Vertic	PASS
2	15534.69	34.82	50.60	15.78	74.00	23.40	PK	Vertic	PASS
3	15540.00	23.84	39.62	15.78	54.00	14.38	AV	Vertic	PASS

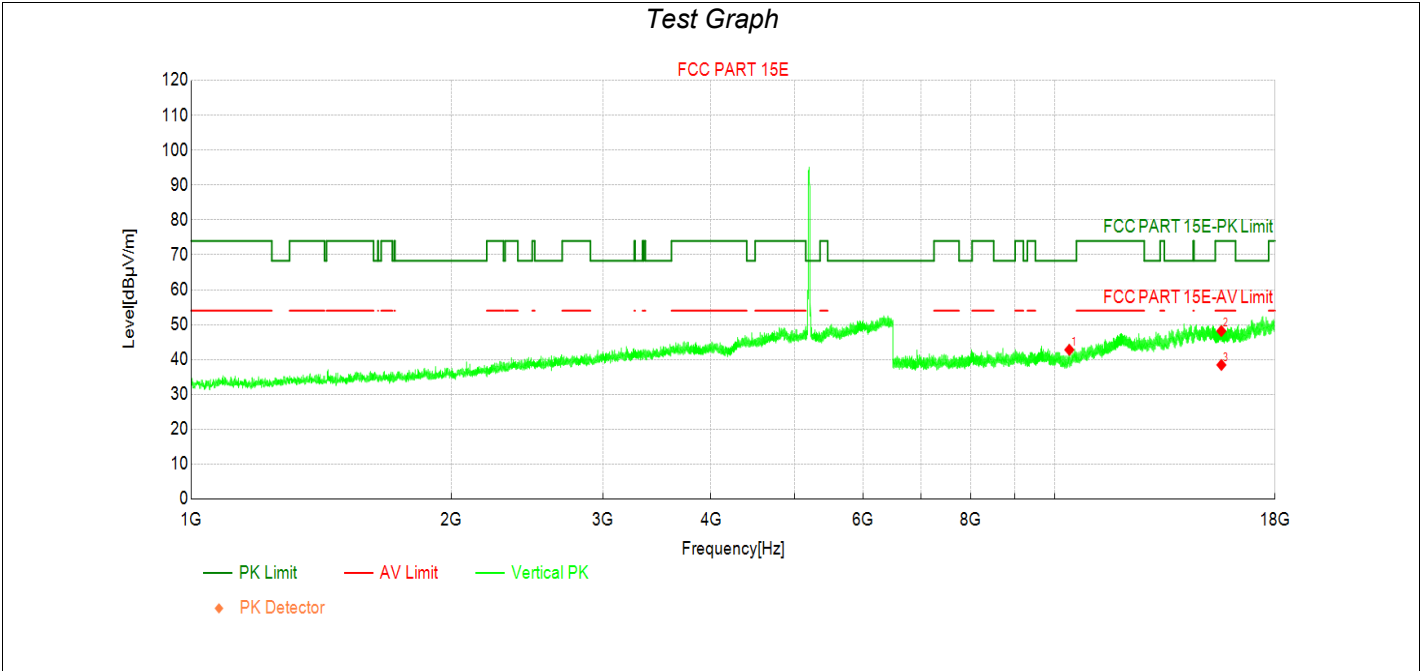
Transmit at 5200MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10405.21	38.16	45.50	7.34	68.30	22.80	PK	Horizo	PASS
2	15600.00	23.79	39.53	15.74	54.00	14.47	AV	Horizo	PASS
3	15600.81	35.83	51.57	15.74	74.00	22.43	PK	Horizo	PASS

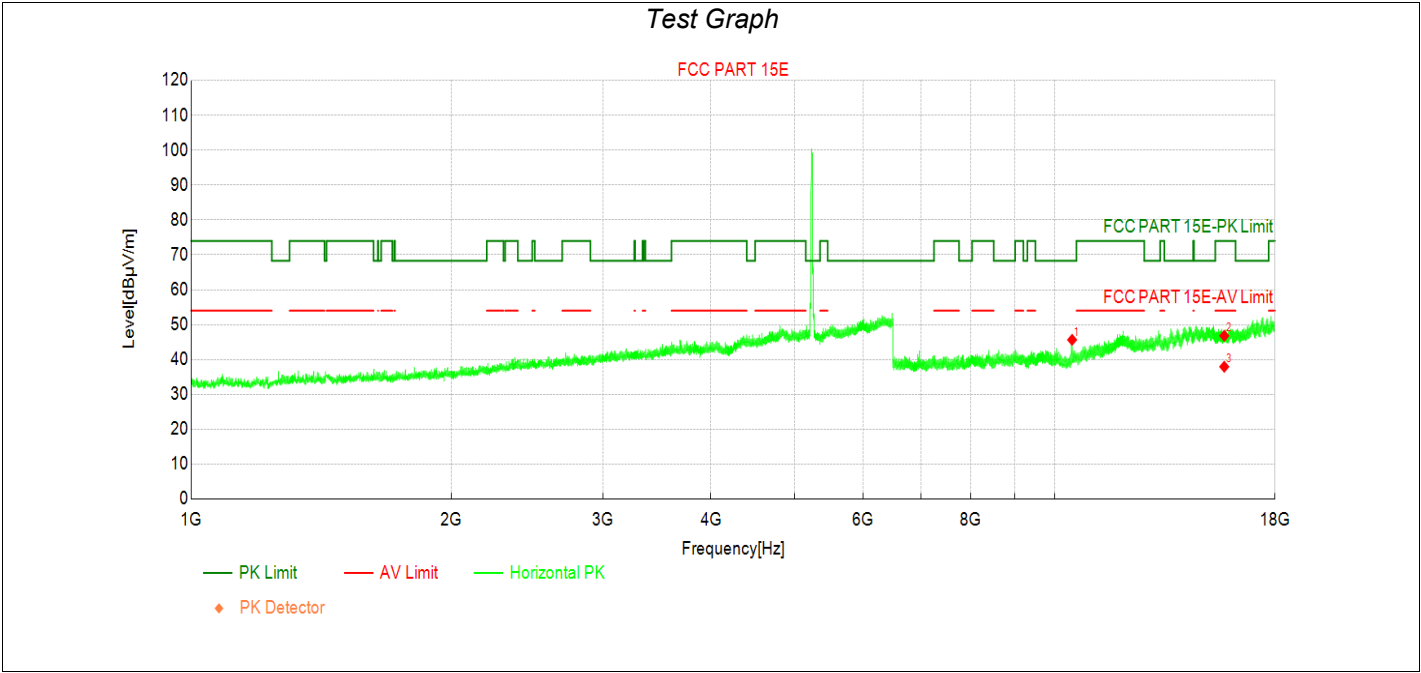
Transmit at 5200MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	35.49	42.80	7.31	68.30	25.50	PK	Vertic	PASS
2	15600.00	32.44	48.18	15.74	74.00	25.82	PK	Vertic	PASS
3	15600.00	22.71	38.45	15.74	54.00	15.55	AV	Vertic	PASS

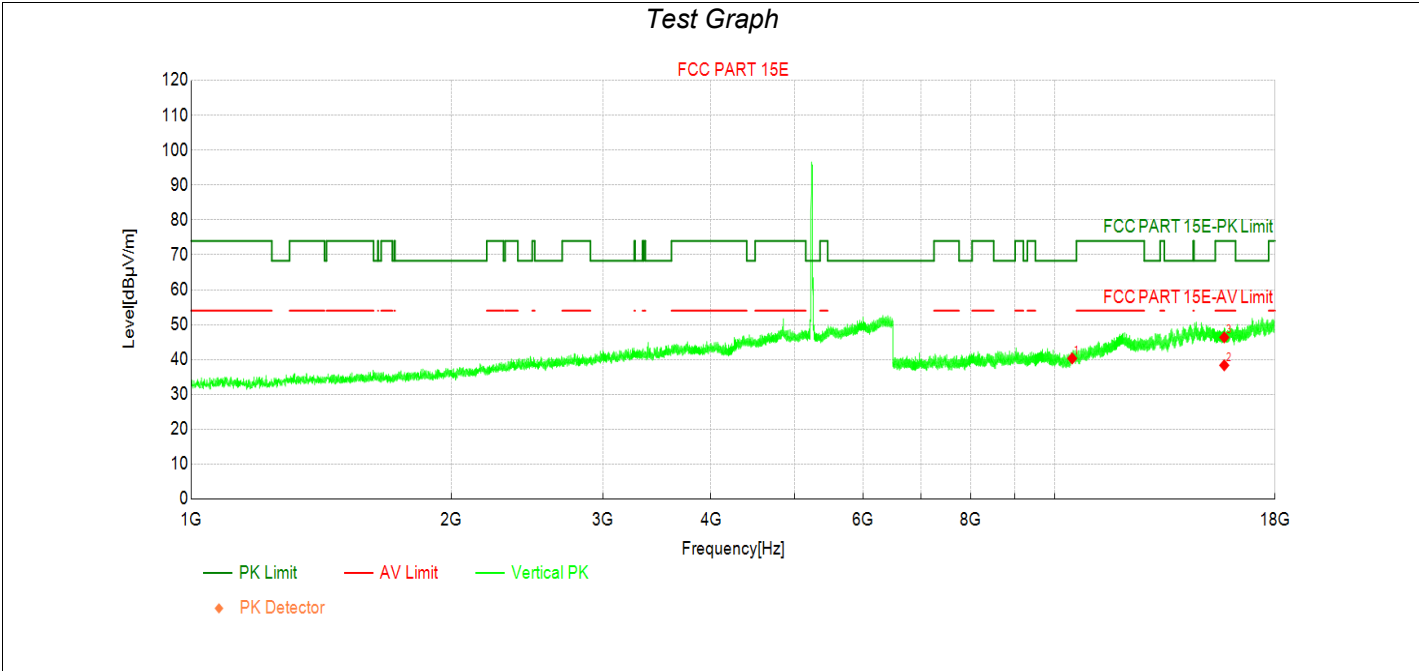
Transmit at 5240MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10477.56	37.92	45.66	7.74	68.30	22.64	PK	Horizo	PASS
2	15720.00	30.95	46.81	15.86	74.00	27.19	PK	Horizo	PASS
3	15720.00	22.09	37.95	15.86	54.00	16.05	AV	Horizo	PASS

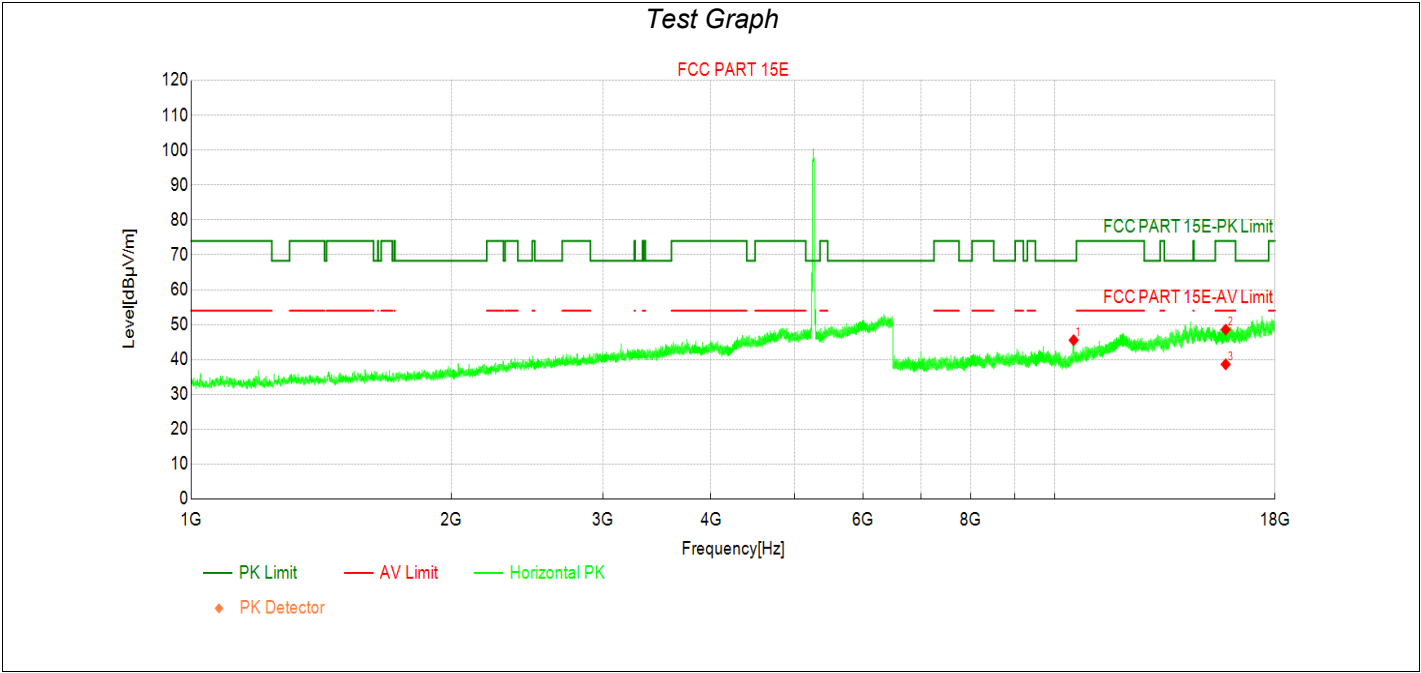
Transmit at 5240MHz by 802.11n(20MHz) with Ant1



Data List

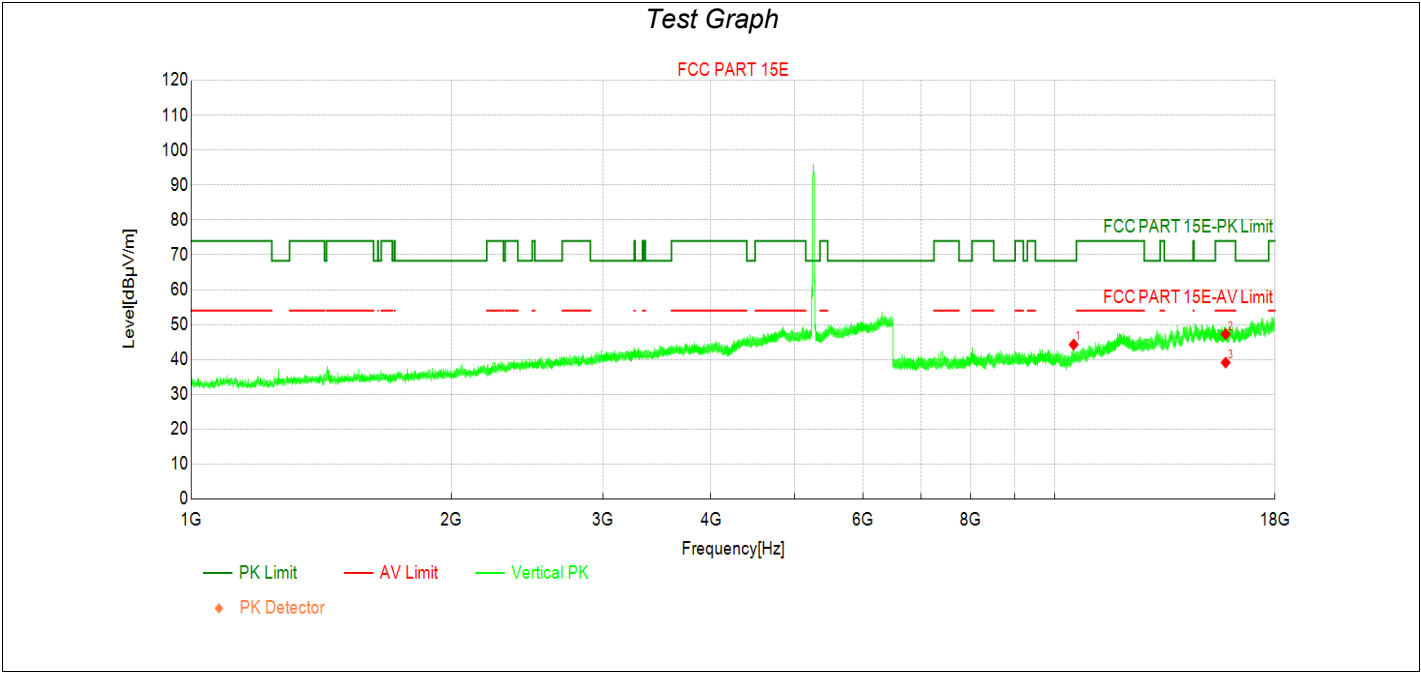
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10480.00	32.57	40.33	7.76	68.30	27.97	PK	Vertic	PASS
2	15720.00	22.50	38.36	15.86	54.00	15.64	AV	Vertic	PASS
3	15720.00	30.50	46.36	15.86	74.00	27.64	PK	Vertic	PASS

Transmit at 5260MHz by 802.11n(20MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10520.00	37.65	45.55	7.90	68.30	22.75	PK	Horizo	PASS
2	15780.00	32.64	48.60	15.96	74.00	25.40	PK	Horizo	PASS
3	15780.00	22.68	38.64	15.96	54.00	15.36	AV	Horizo	PASS

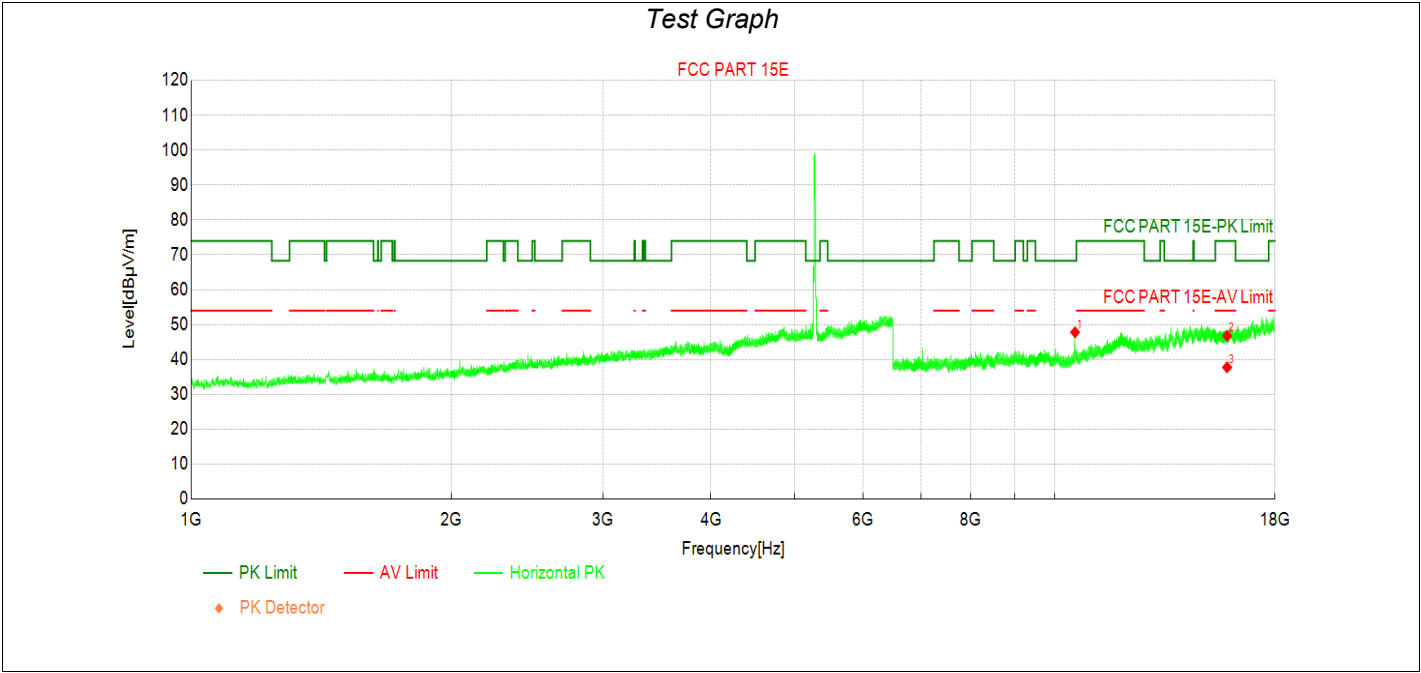
Transmit at 5260MHz by 802.11n(20MHz) with Ant1



Data List

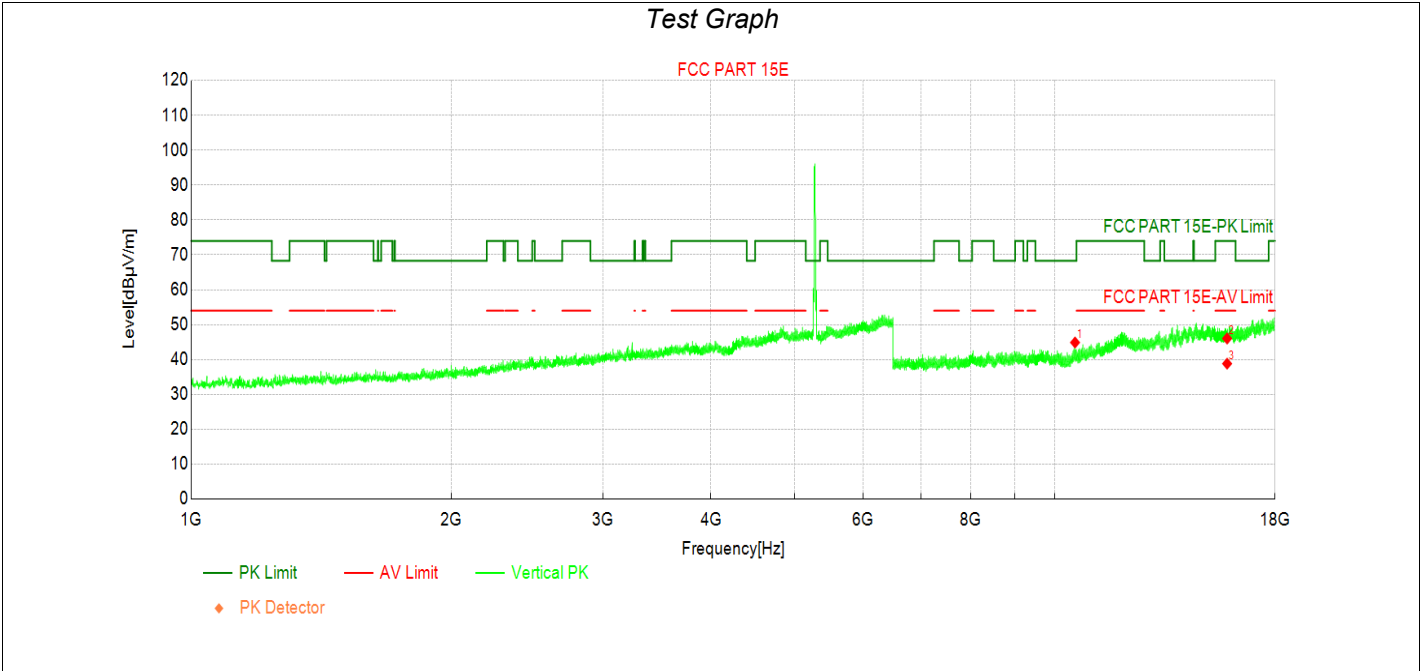
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10520.00	36.41	44.31	7.90	68.30	23.99	PK	Vertic	PASS
2	15780.00	31.36	47.32	15.96	74.00	26.68	PK	Vertic	PASS
3	15780.00	23.17	39.13	15.96	54.00	14.87	AV	Vertic	PASS

Transmit at 5280MHz by 802.11n(20MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.94	39.84	47.82	7.98	68.30	20.48	PK	Horizo	PASS
2	15840.00	30.68	46.79	16.11	74.00	27.21	PK	Horizo	PASS
3	15840.00	21.66	37.77	16.11	54.00	16.23	AV	Horizo	PASS

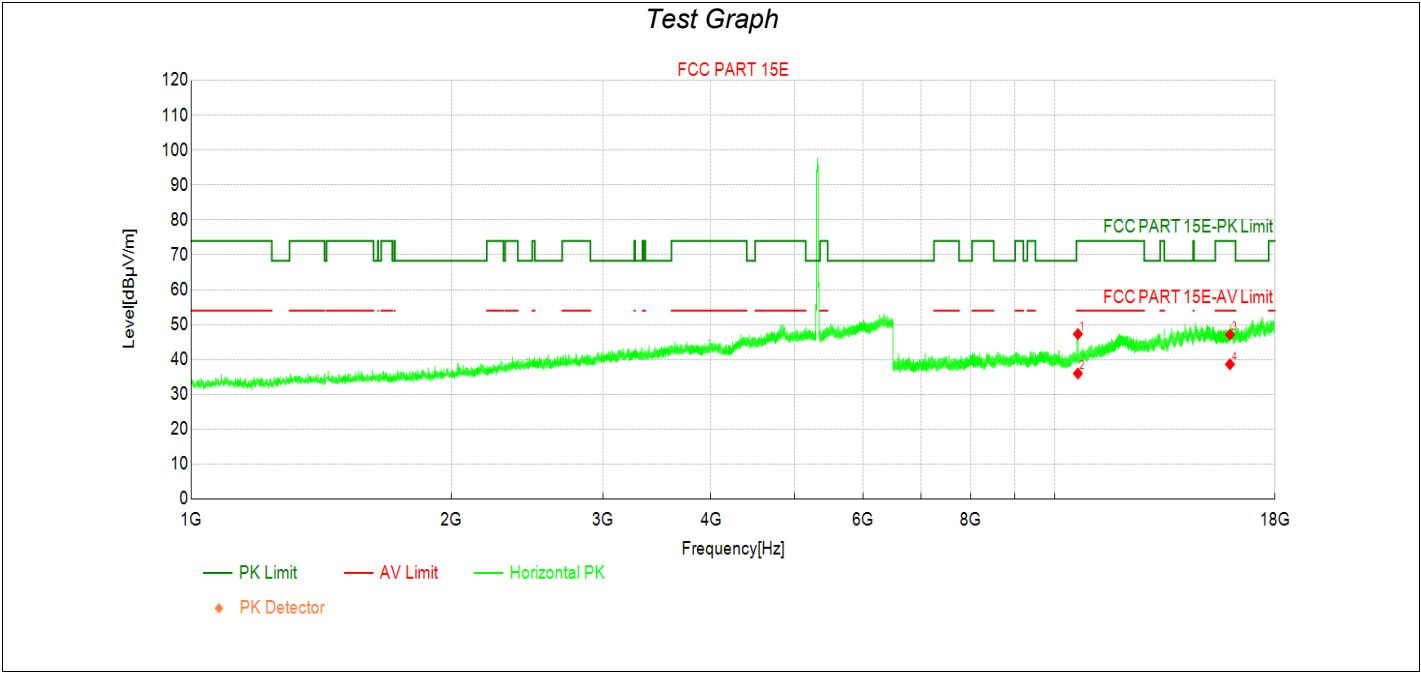
Transmit at 5280MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.00	36.91	44.89	7.98	68.30	23.41	PK	Vertic	PASS
2	15840.00	29.93	46.04	16.11	74.00	27.96	PK	Vertic	PASS
3	15840.00	22.72	38.83	16.11	54.00	15.17	AV	Vertic	PASS

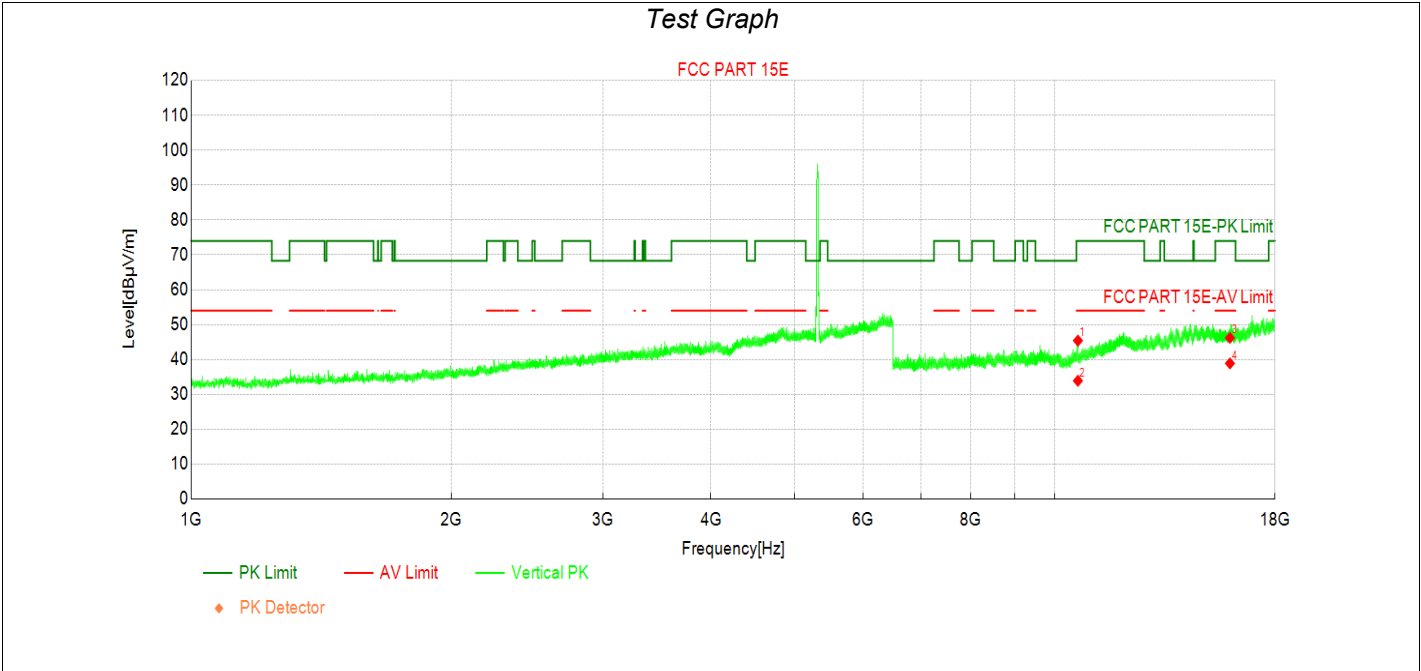
Transmit at 5320MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10640.00	39.28	47.29	8.01	74.00	26.71	PK	Horizo	PASS
2	10640.00	27.99	36.00	8.01	54.00	18.00	AV	Horizo	PASS
3	15960.00	30.58	47.12	16.54	74.00	26.88	PK	Horizo	PASS
4	15960.00	22.10	38.64	16.54	54.00	15.36	AV	Horizo	PASS

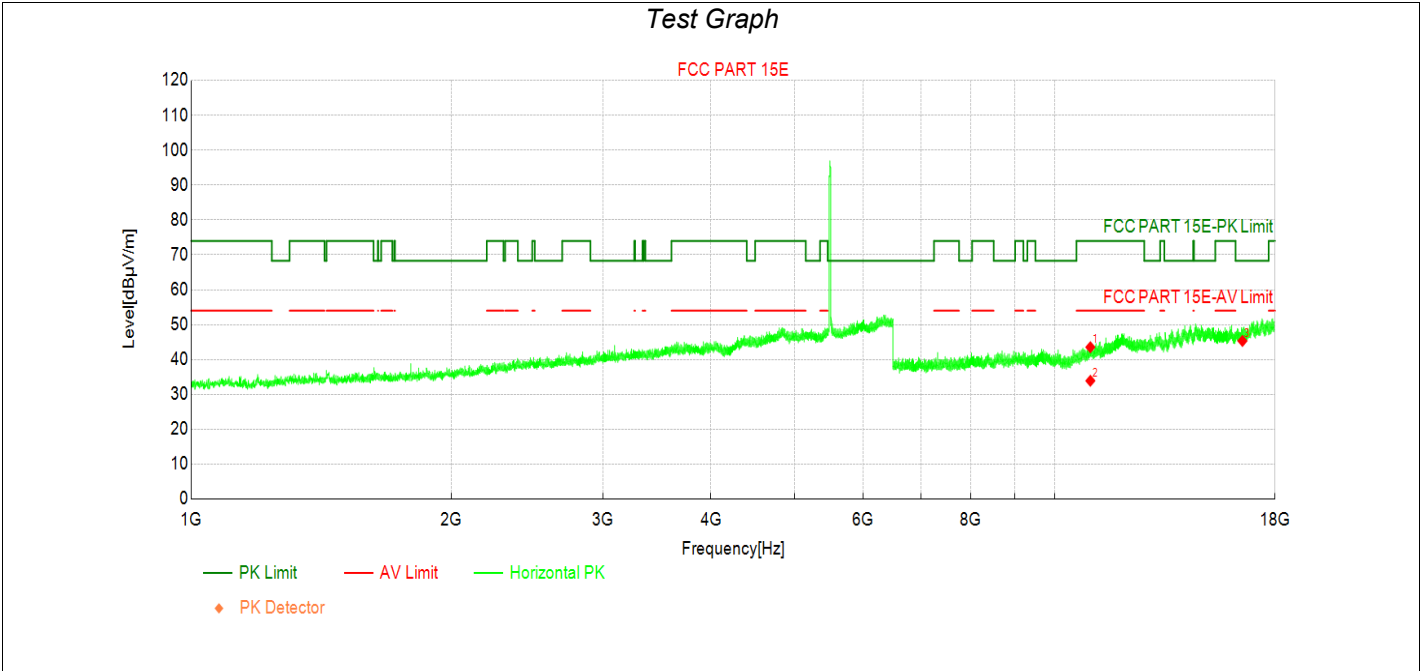
Transmit at 5320MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10640.00	37.41	45.42	8.01	74.00	28.58	PK	Vertic	PASS
2	10640.00	25.92	33.93	8.01	54.00	20.07	AV	Vertic	PASS
3	15960.00	29.68	46.22	16.54	74.00	27.78	PK	Vertic	PASS
4	15960.00	22.36	38.90	16.54	54.00	15.10	AV	Vertic	PASS

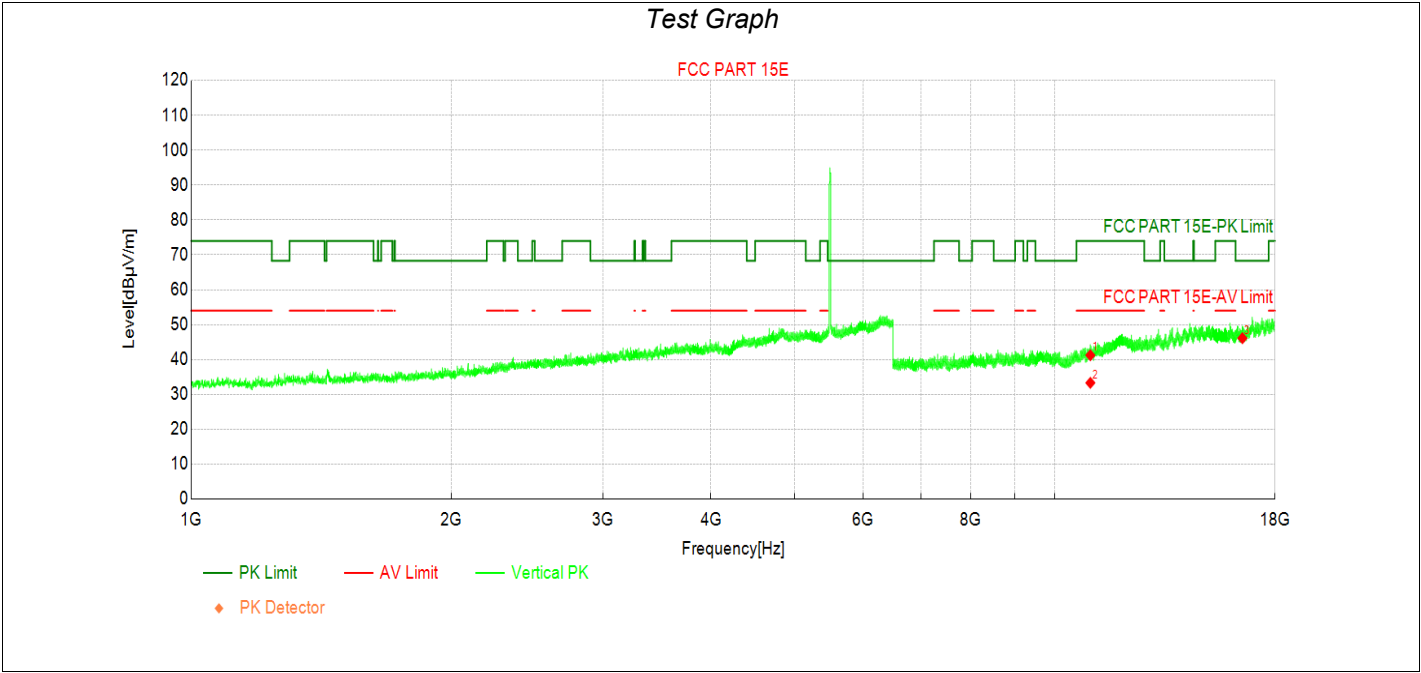
Transmit at 5500MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	34.44	43.55	9.11	74.00	30.45	PK	Horizo	PASS
2	11000.00	24.81	33.92	9.11	54.00	20.08	AV	Horizo	PASS
3	16500.00	28.52	45.34	16.82	68.30	22.96	PK	Horizo	PASS

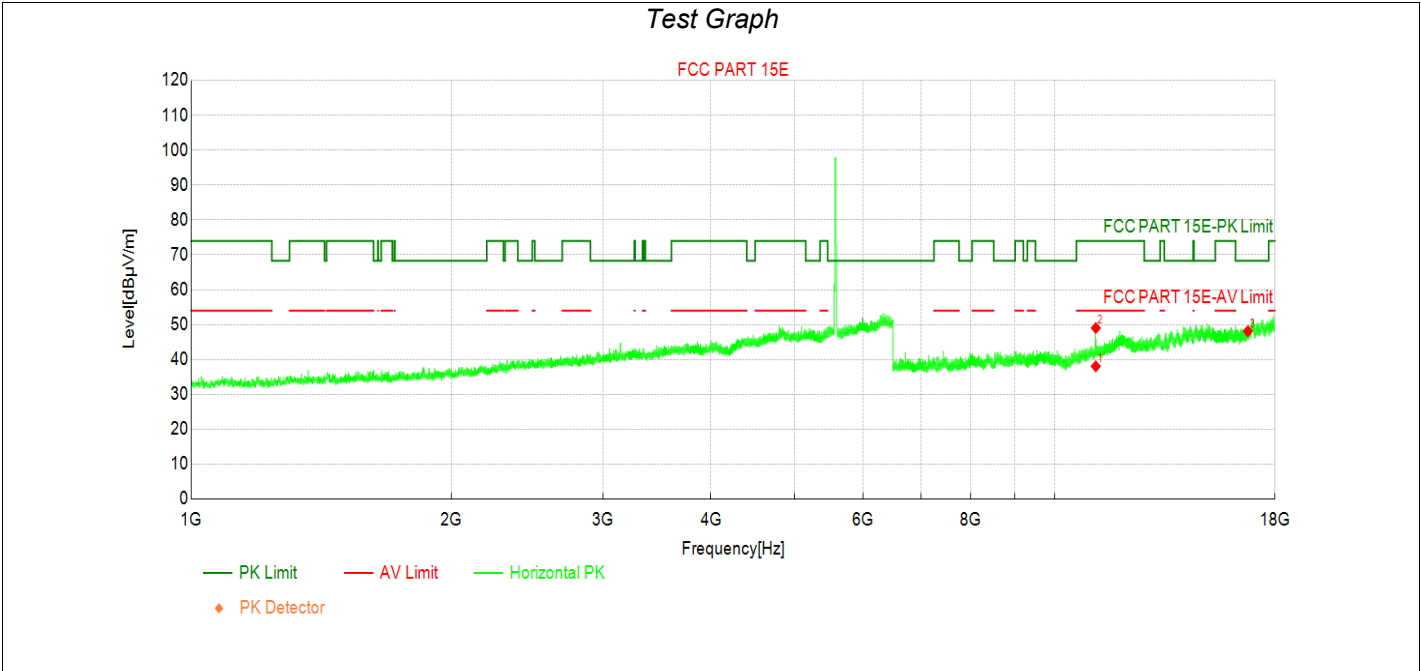
Transmit at 5500MHz by 802.11n(20MHz) with Ant1



Data List

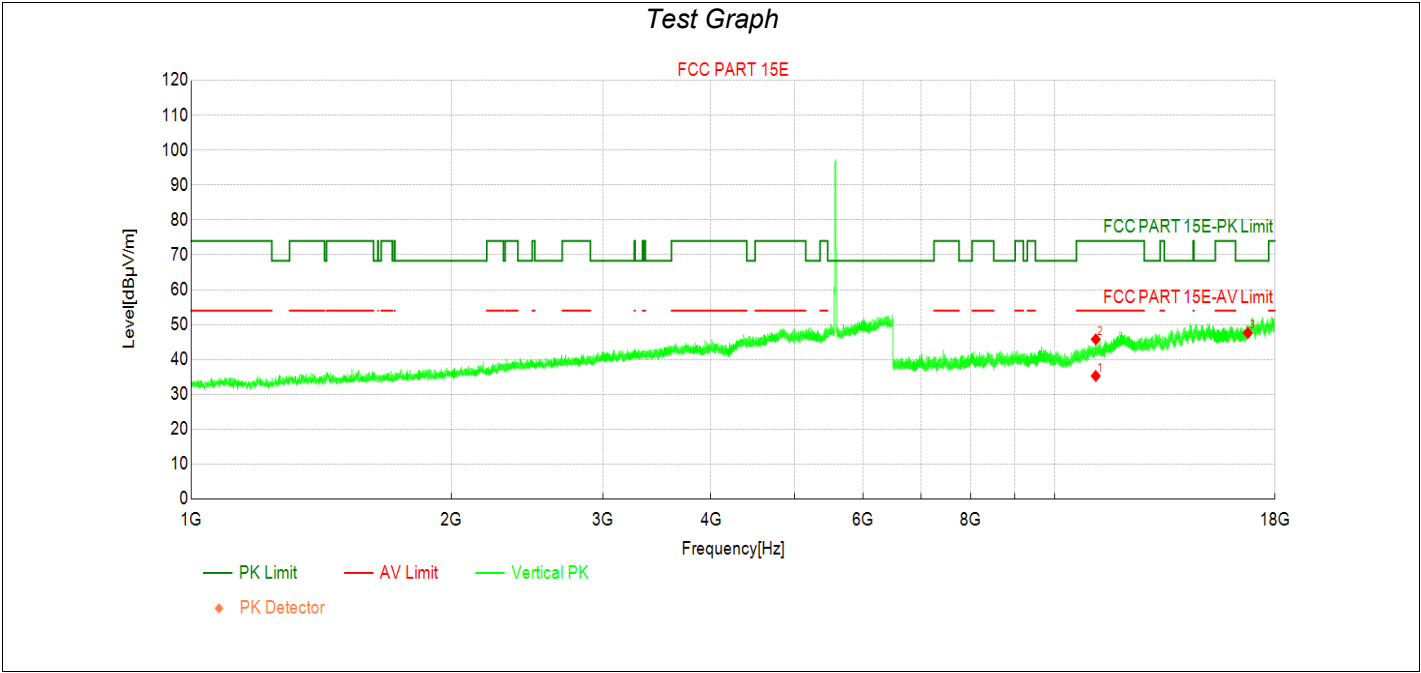
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	32.13	41.24	9.11	74.00	32.76	PK	Vertic	PASS
2	11000.00	24.22	33.33	9.11	54.00	20.67	AV	Vertic	PASS
3	16500.00	29.31	46.13	16.82	68.30	22.17	PK	Vertic	PASS

Transmit at 5580MHz by 802.11n(20MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	28.88	38.07	9.19	54.00	15.93	AV	Horizo	PASS
2	11161.81	39.83	49.04	9.21	74.00	24.96	PK	Horizo	PASS
3	16740.00	30.81	48.11	17.30	68.30	20.19	PK	Horizo	PASS

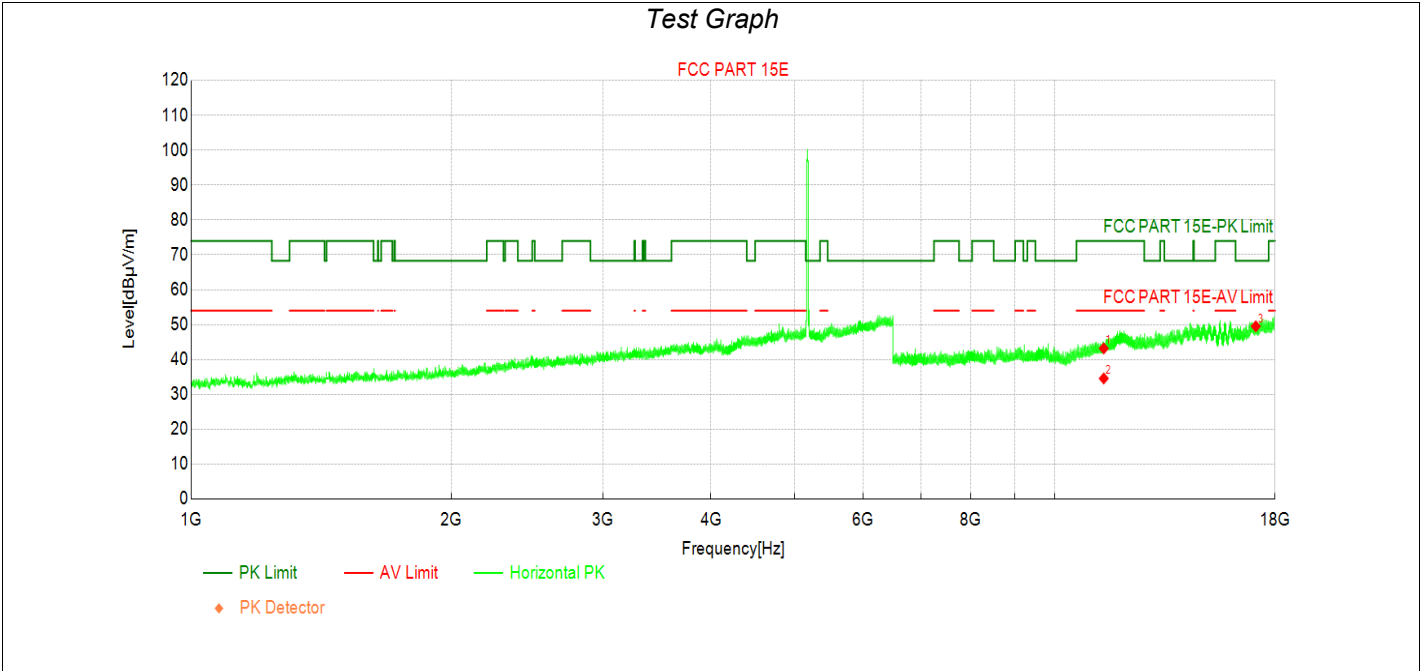
Transmit at 5580MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	26.12	35.31	9.19	54.00	18.69	AV	Vertic	PASS
2	11160.85	36.60	45.80	9.20	74.00	28.20	PK	Vertic	PASS
3	16740.00	30.33	47.63	17.30	68.30	20.67	PK	Vertic	PASS

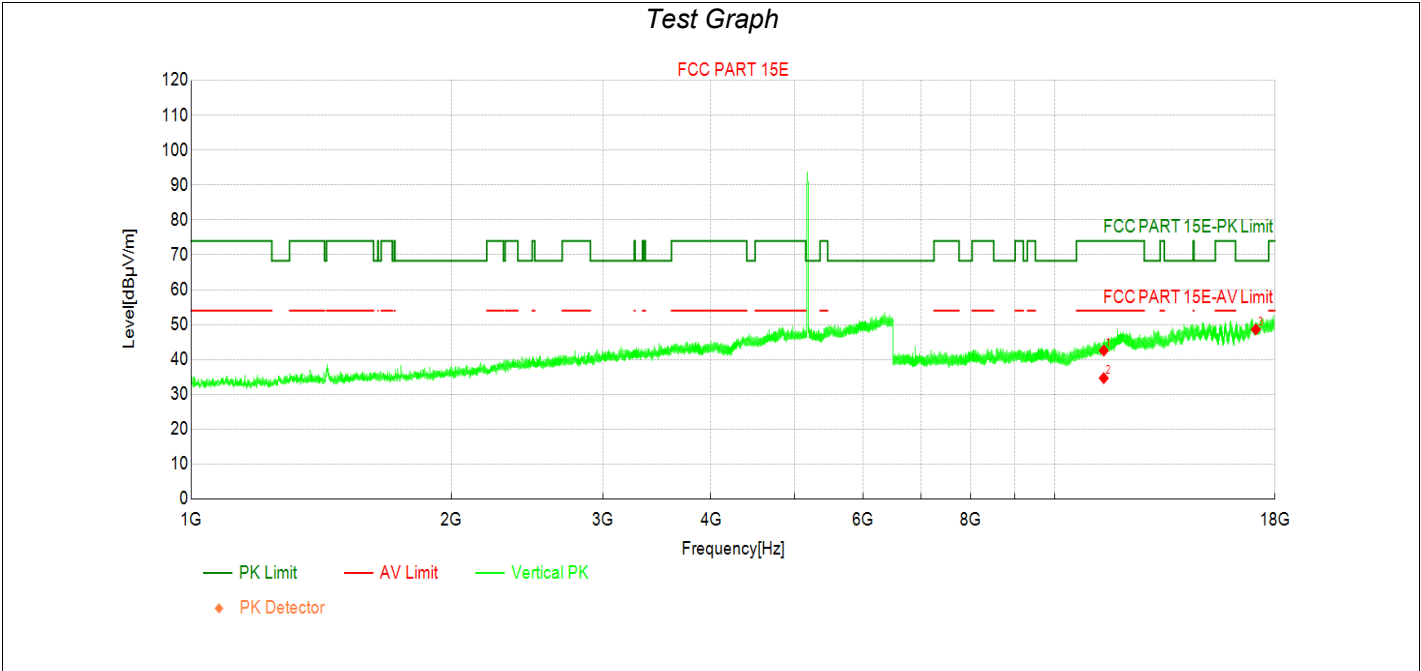
Transmit at 5700MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	33.32	43.20	9.88	74.00	30.80	PK	Horizo	PASS
2	11400.00	24.71	34.59	9.88	54.00	19.41	AV	Horizo	PASS
3	17100.00	31.17	49.53	18.36	68.30	18.77	PK	Horizo	PASS

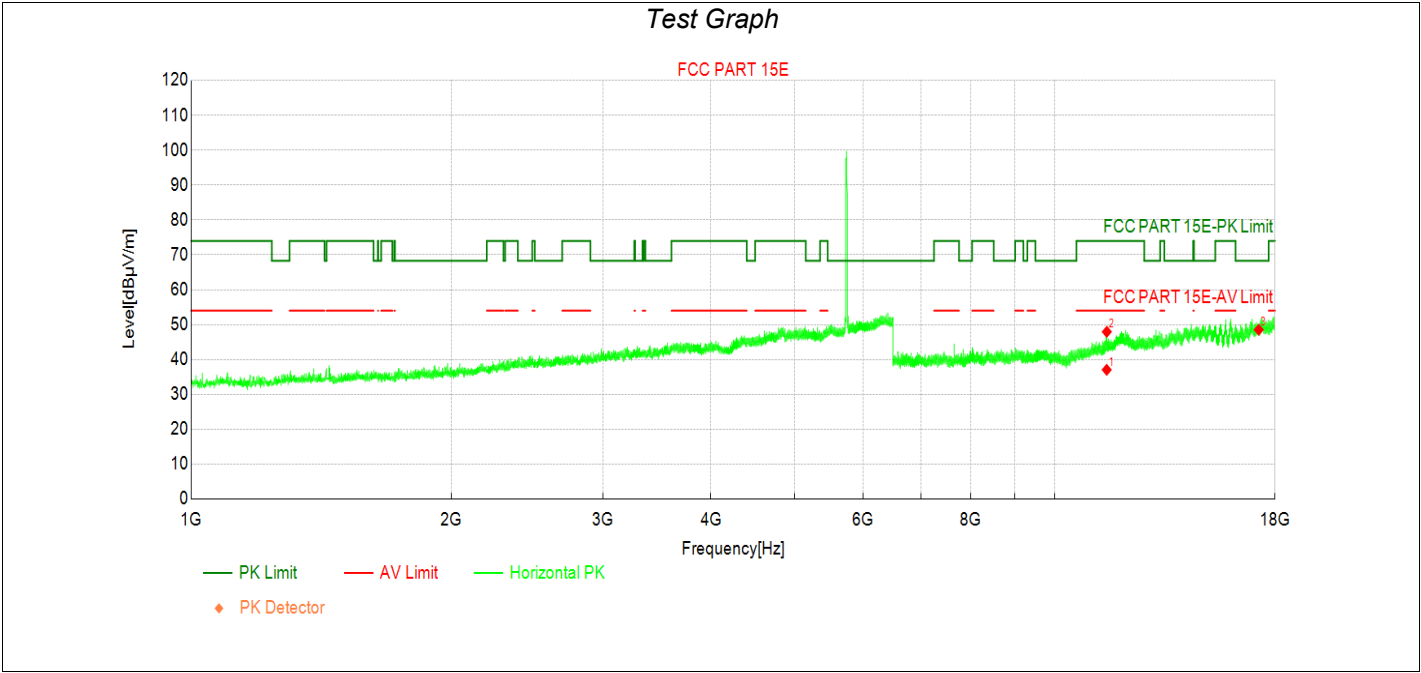
Transmit at 5700MHz by 802.11n(20MHz) with Ant1



Data List

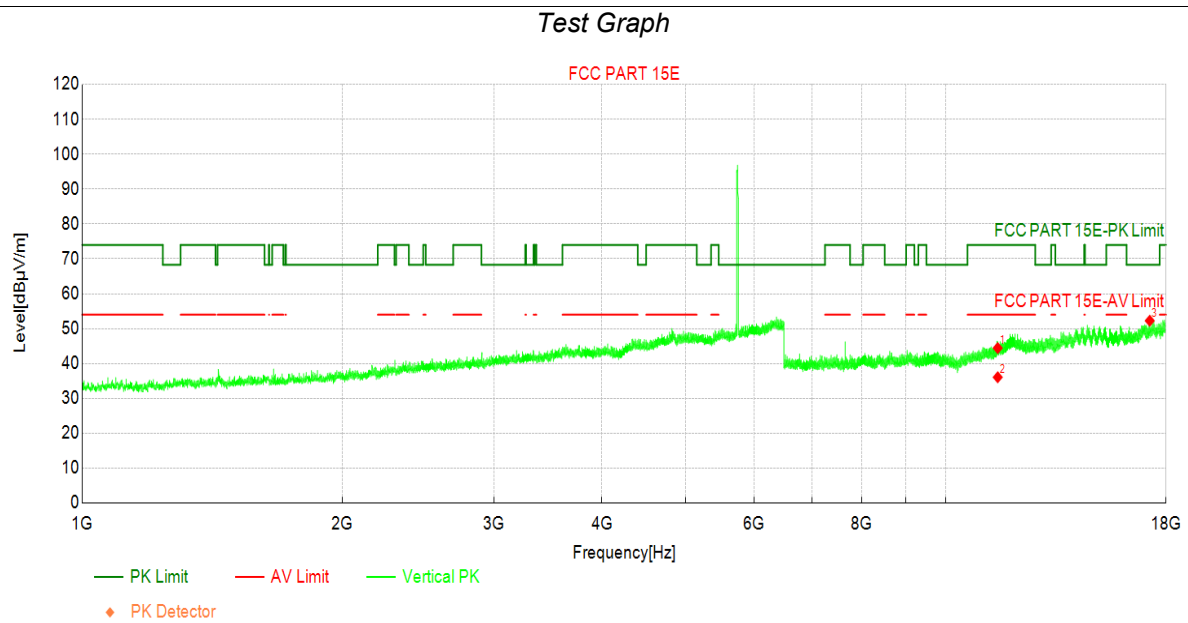
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	32.69	42.57	9.88	74.00	31.43	PK	Vertic	PASS
2	11400.00	24.80	34.68	9.88	54.00	19.32	AV	Vertic	PASS
3	17100.00	30.27	48.63	18.36	68.30	19.67	PK	Vertic	PASS

Transmit at 5745MHz by 802.11n(20MHz) with Ant1



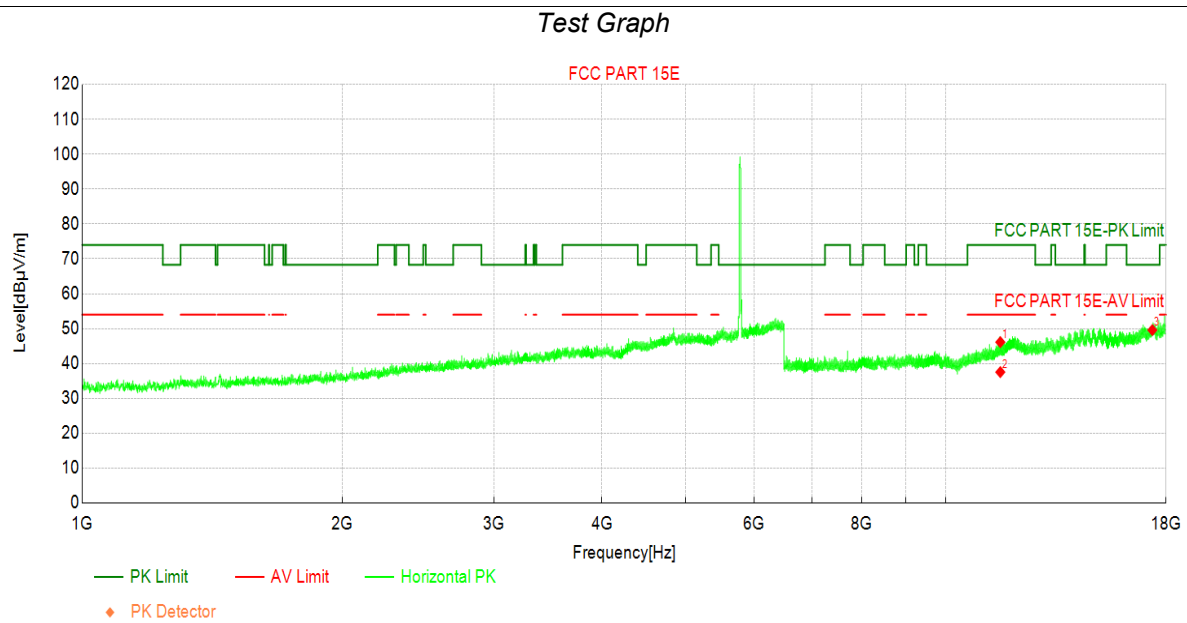
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	27.07	37.07	10.00	54.00	16.93	AV	Horizo	PASS
2	11493.40	37.96	47.96	10.00	74.00	26.04	PK	Horizo	PASS
3	17235.00	30.62	48.54	17.92	68.30	19.76	PK	Horizo	PASS

Transmit at 5745MHz by 802.11n(20MHz) with Ant1



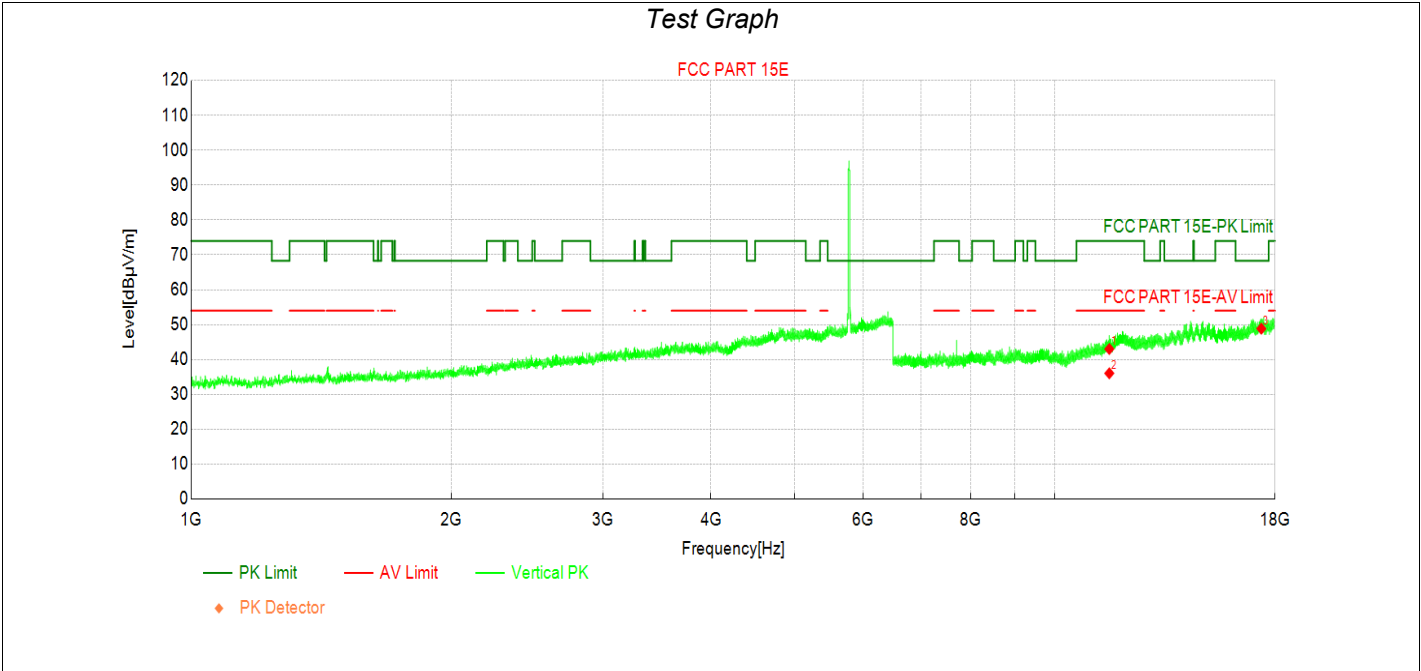
Data List									
NO	Frequenc y [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	34.44	44.44	10.00	74.00	29.56	PK	Vertic	PASS
2	11490.00	26.08	36.08	10.00	54.00	17.92	AV	Vertic	PASS
3	17233.33	34.35	52.27	17.92	68.30	16.03	PK	Vertic	PASS

Transmit at 5785MHz by 802.11n(20MHz) with Ant1



Data List									
NO	Frequenc y [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	35.66	46.15	10.49	74.00	27.85	PK	Horizo	PASS
2	11570.00	27.06	37.55	10.49	54.00	16.45	AV	Horizo	PASS
3	17355.00	30.70	49.60	18.90	68.30	18.70	PK	Horizo	PASS

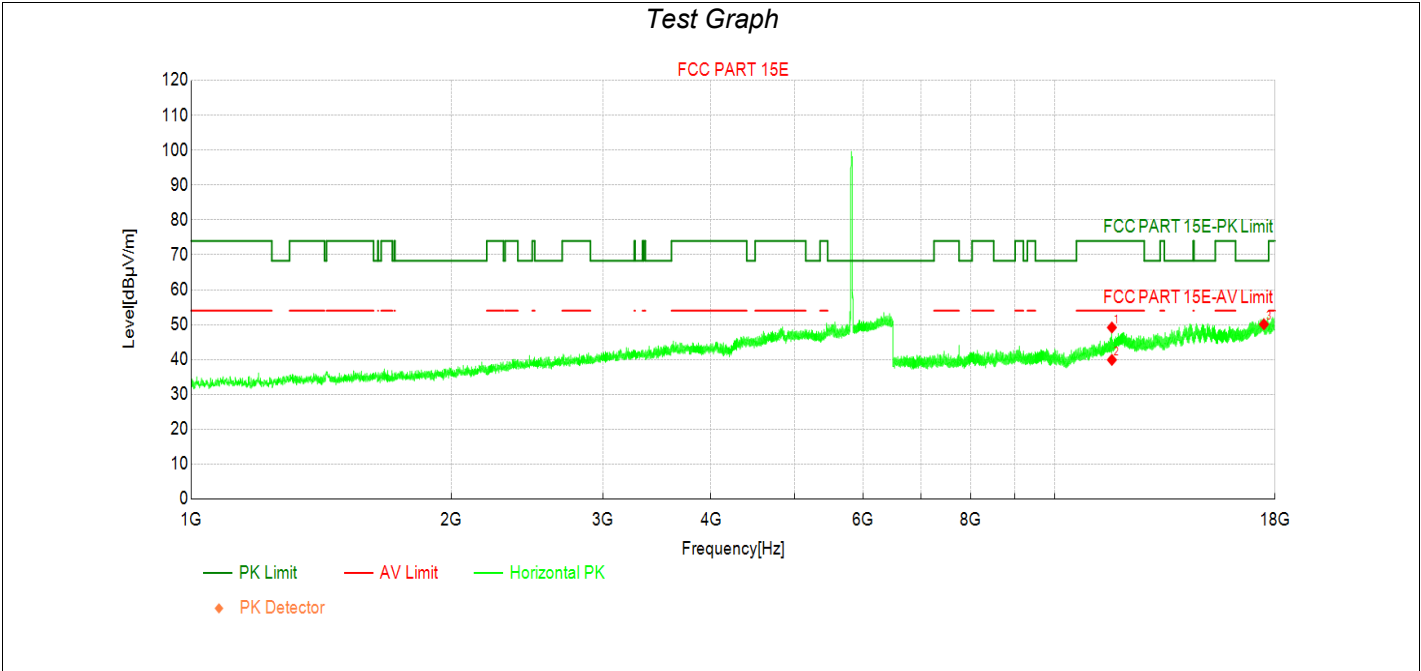
Transmit at 5785MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	32.53	43.02	10.49	74.00	30.98	PK	Vertic	PASS
2	11570.00	25.57	36.06	10.49	54.00	17.94	AV	Vertic	PASS
3	17355.00	29.96	48.86	18.90	68.30	19.44	PK	Vertic	PASS

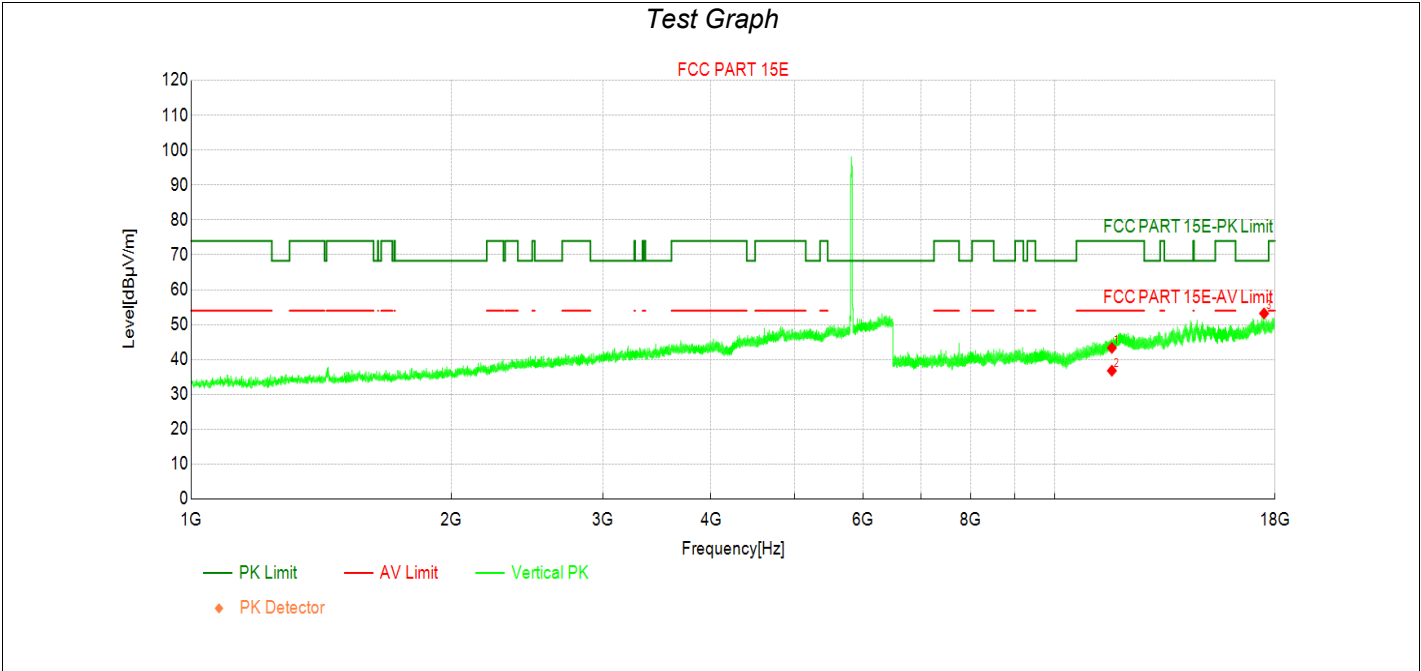
Transmit at 5825MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	38.48	49.19	10.71	74.00	24.81	PK	Horizo	PASS
2	11650.00	29.19	39.90	10.71	54.00	14.10	AV	Horizo	PASS
3	17475.00	30.80	50.10	19.30	68.30	18.20	PK	Horizo	PASS

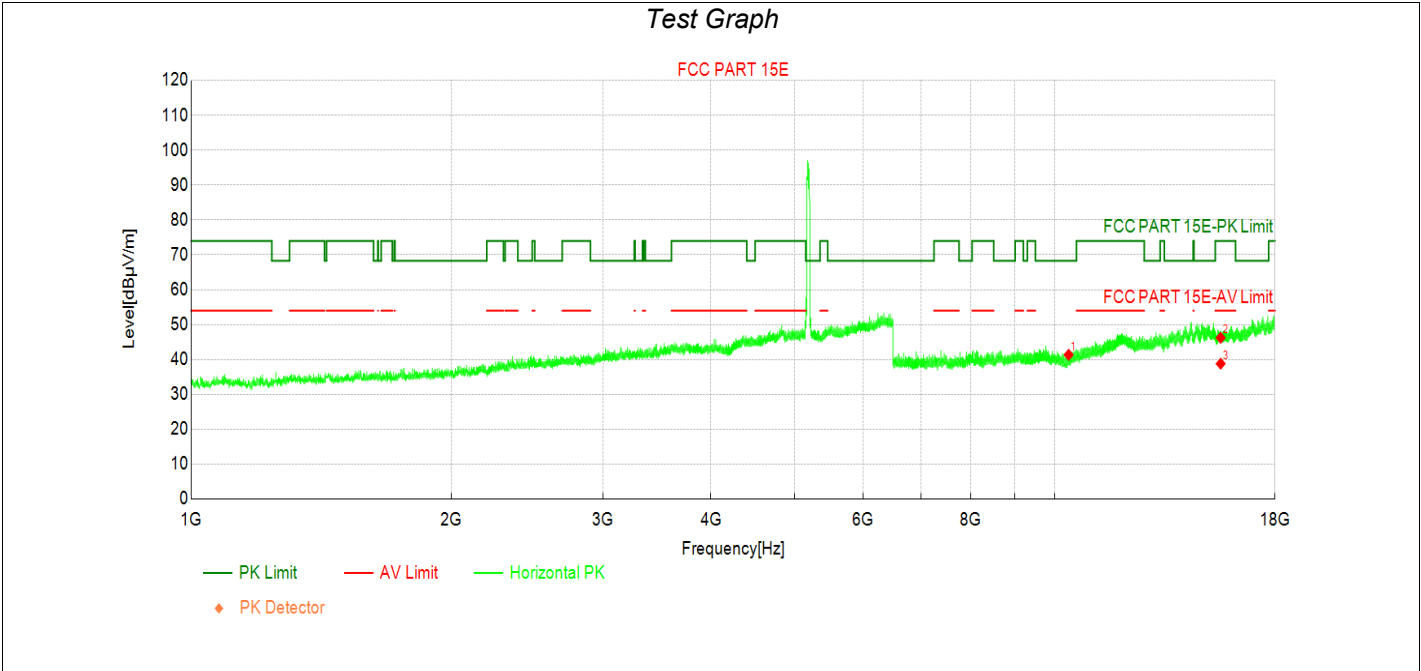
Transmit at 5825MHz by 802.11n(20MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	32.63	43.34	10.71	74.00	30.66	PK	Vertic	PASS
2	11650.00	26.08	36.79	10.71	54.00	17.21	AV	Vertic	PASS
3	17481.06	33.93	53.21	19.28	68.30	15.09	PK	Vertic	PASS

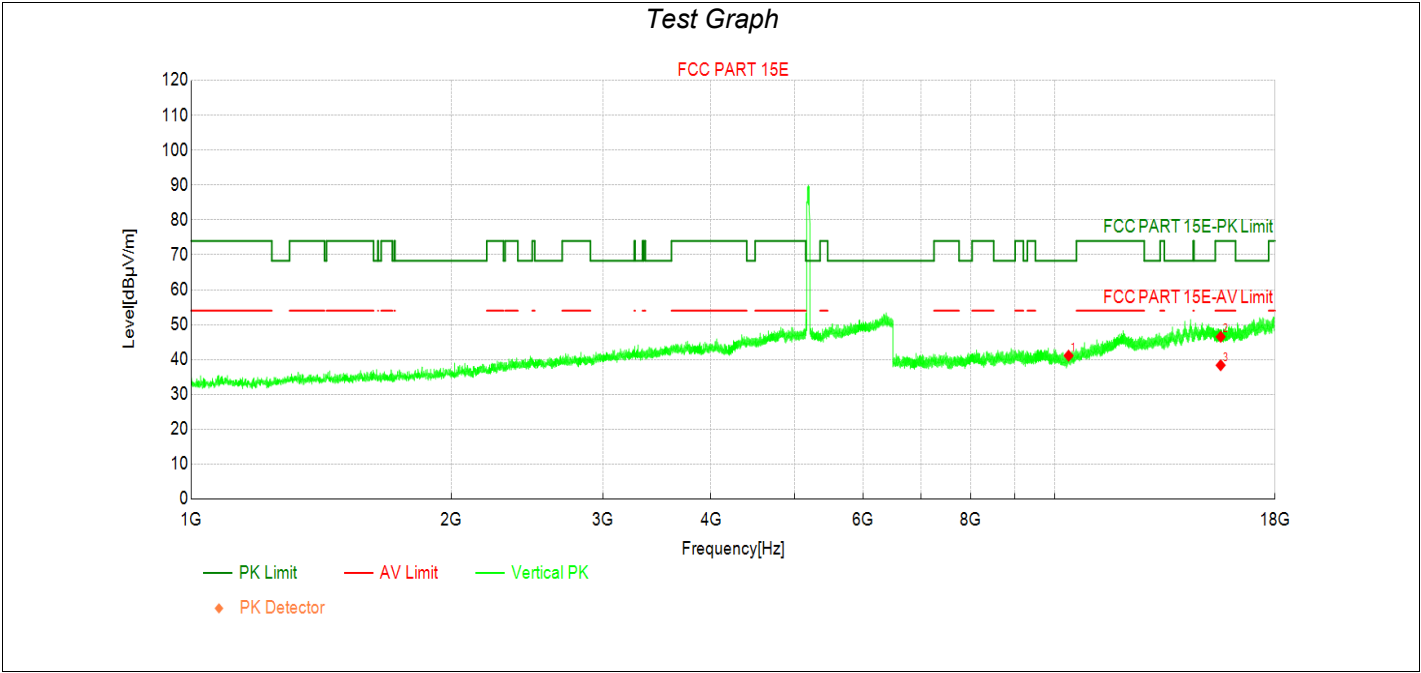
Transmit at 5190MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10380.00	34.10	41.37	7.27	68.30	26.93	PK	Horizo	PASS
2	15570.00	30.48	46.24	15.76	74.00	27.76	PK	Horizo	PASS
3	15570.00	23.06	38.82	15.76	54.00	15.18	AV	Horizo	PASS

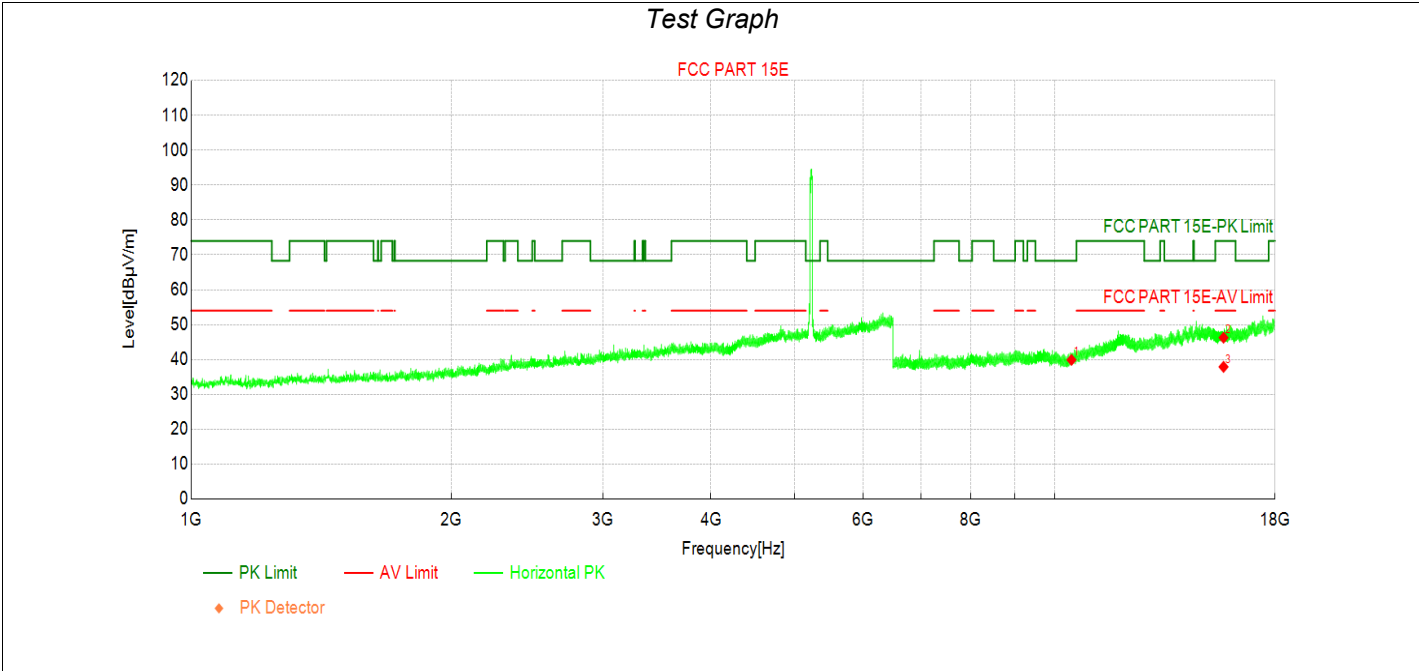
Transmit at 5190MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10380.00	33.85	41.12	7.27	68.30	27.18	PK	Vertic	PASS
2	15570.00	30.76	46.52	15.76	74.00	27.48	PK	Vertic	PASS
3	15570.00	22.61	38.37	15.76	54.00	15.63	AV	Vertic	PASS

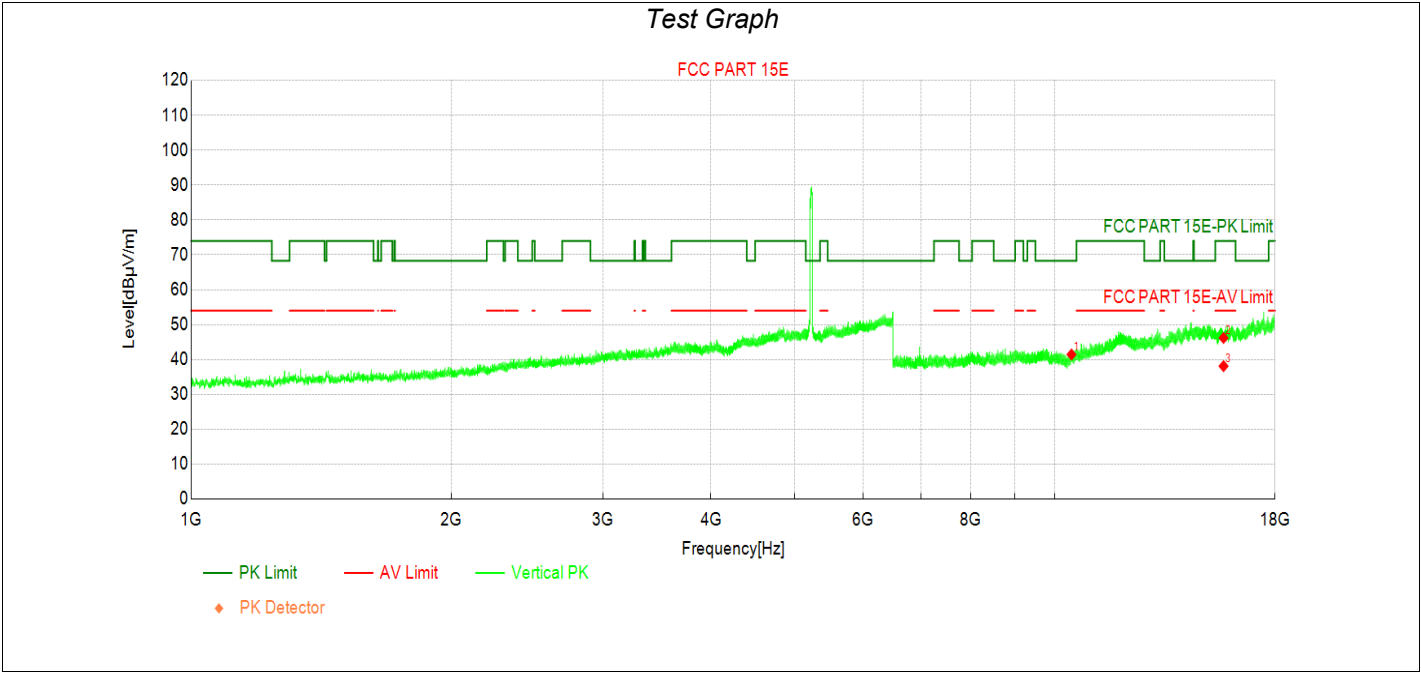
Transmit at 5230MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10460.00	32.25	39.90	7.65	68.30	28.40	PK	Horizo	PASS
2	15690.00	30.46	46.28	15.82	74.00	27.72	PK	Horizo	PASS
3	15690.00	22.08	37.90	15.82	54.00	16.10	AV	Horizo	PASS

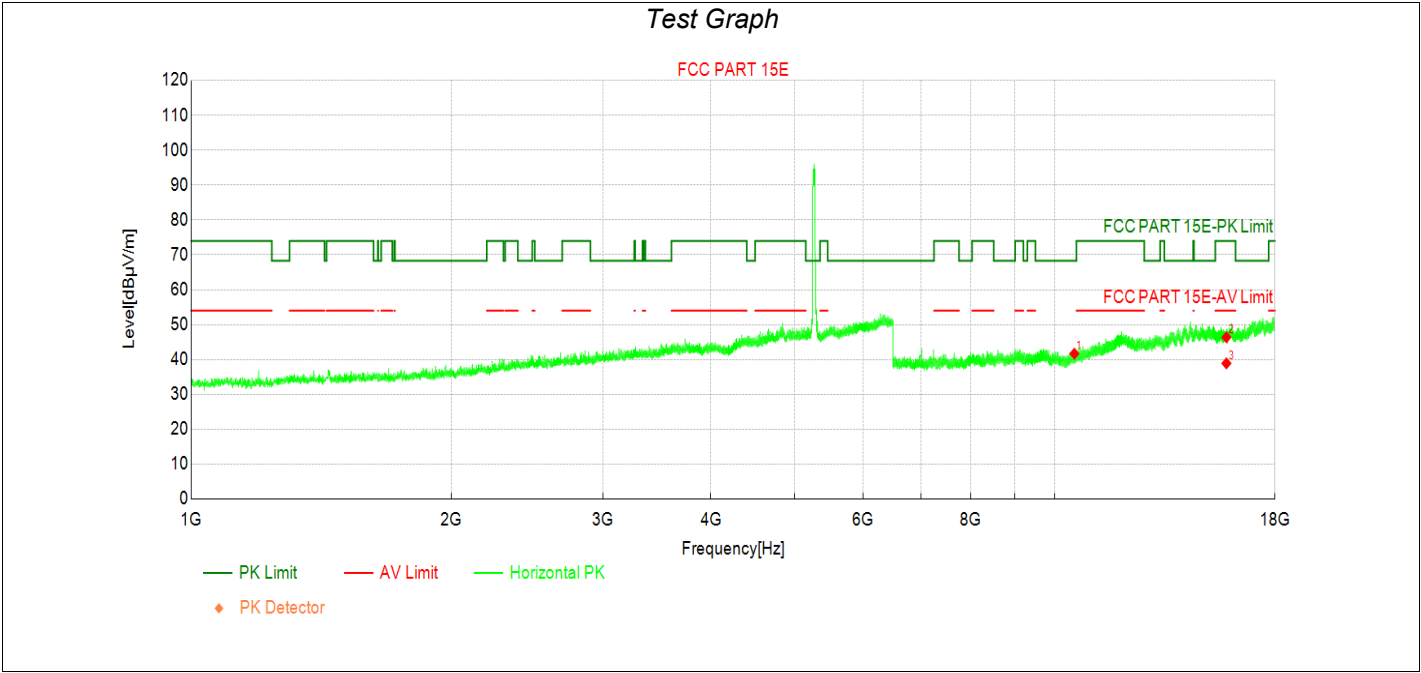
Transmit at 5230MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10460.00	33.80	41.45	7.65	68.30	26.85	PK	Vertic	PASS
2	15690.00	30.38	46.20	15.82	74.00	27.80	PK	Vertic	PASS
3	15690.00	22.29	38.11	15.82	54.00	15.89	AV	Vertic	PASS

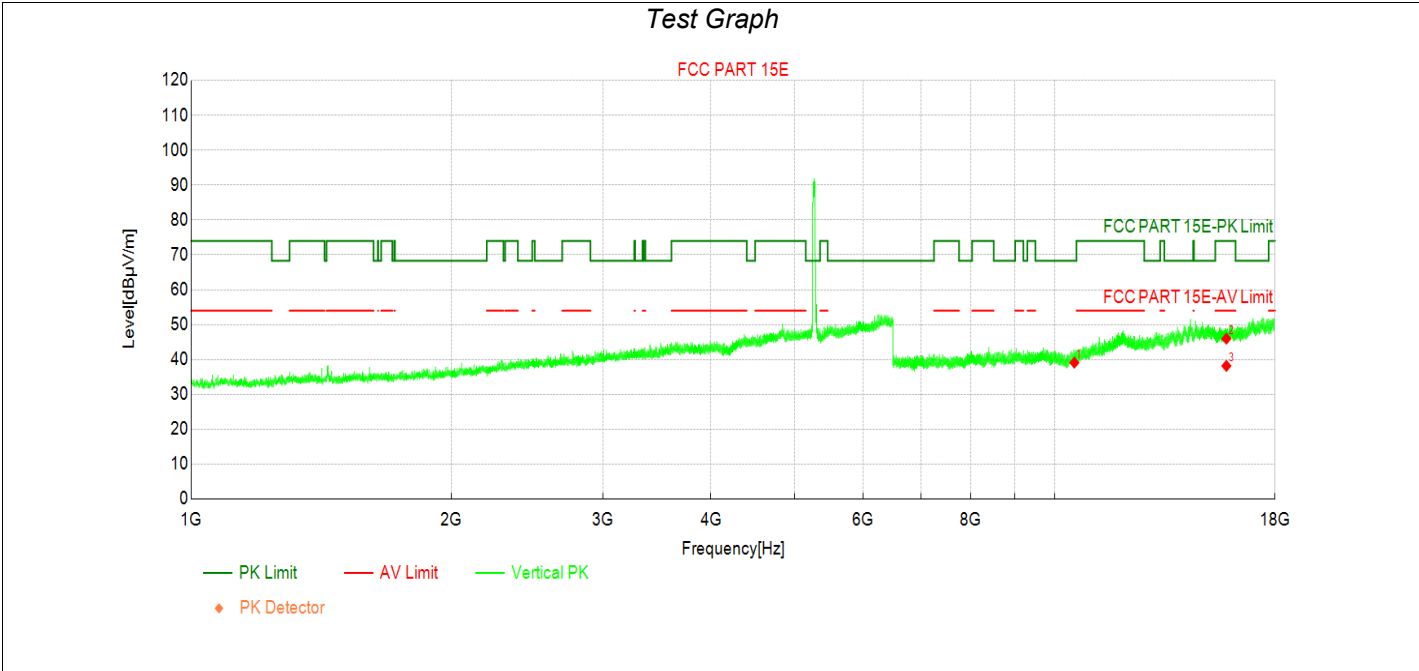
Transmit at 5270MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10540.00	33.75	41.69	7.94	68.30	26.61	PK	Horizo	PASS
2	15810.00	30.36	46.38	16.02	74.00	27.62	PK	Horizo	PASS
3	15810.00	22.90	38.92	16.02	54.00	15.08	AV	Horizo	PASS

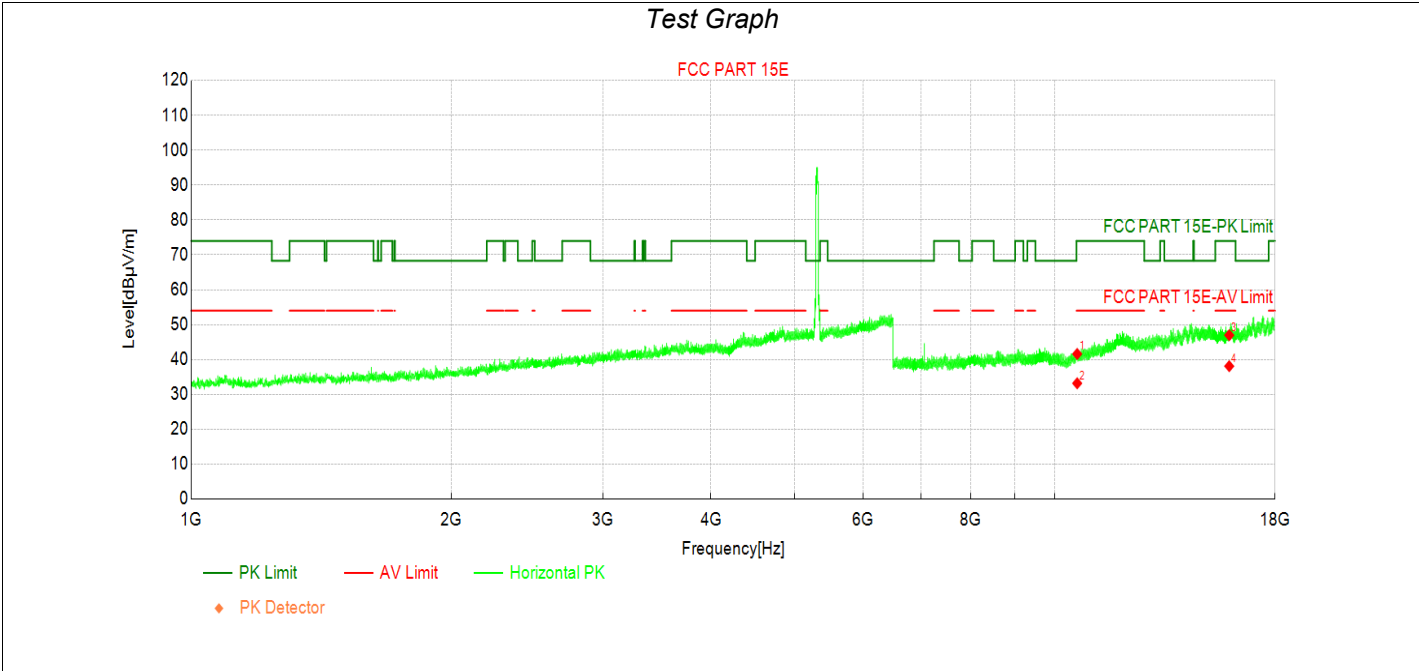
Transmit at 5270MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10540.00	31.17	39.11	7.94	68.30	29.19	PK	Vertic	PASS
2	15810.00	29.97	45.99	16.02	74.00	28.01	PK	Vertic	PASS
3	15810.00	22.17	38.19	16.02	54.00	15.81	AV	Vertic	PASS

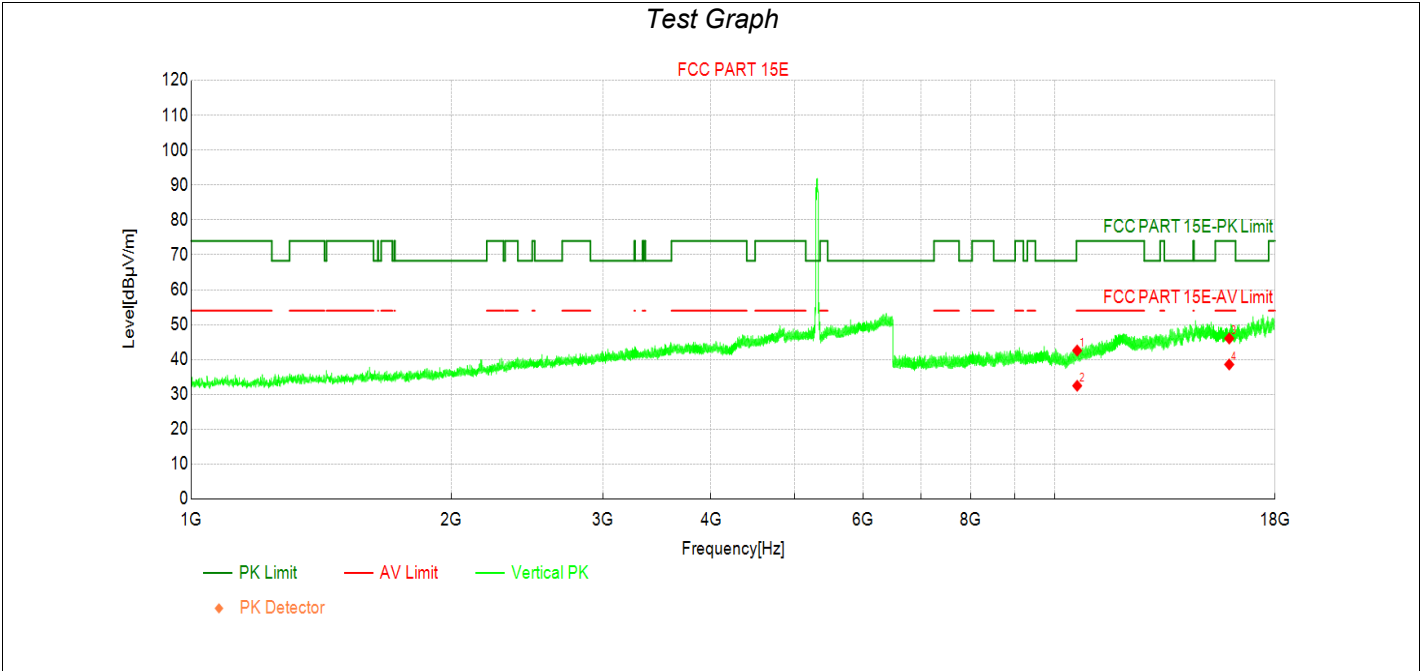
Transmit at 5310MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10620.00	33.58	41.61	8.03	74.00	32.39	PK	Horizo	PASS
2	10620.00	25.16	33.19	8.03	54.00	20.81	AV	Horizo	PASS
3	15930.00	30.58	46.99	16.41	74.00	27.01	PK	Horizo	PASS
4	15930.00	21.69	38.10	16.41	54.00	15.90	AV	Horizo	PASS

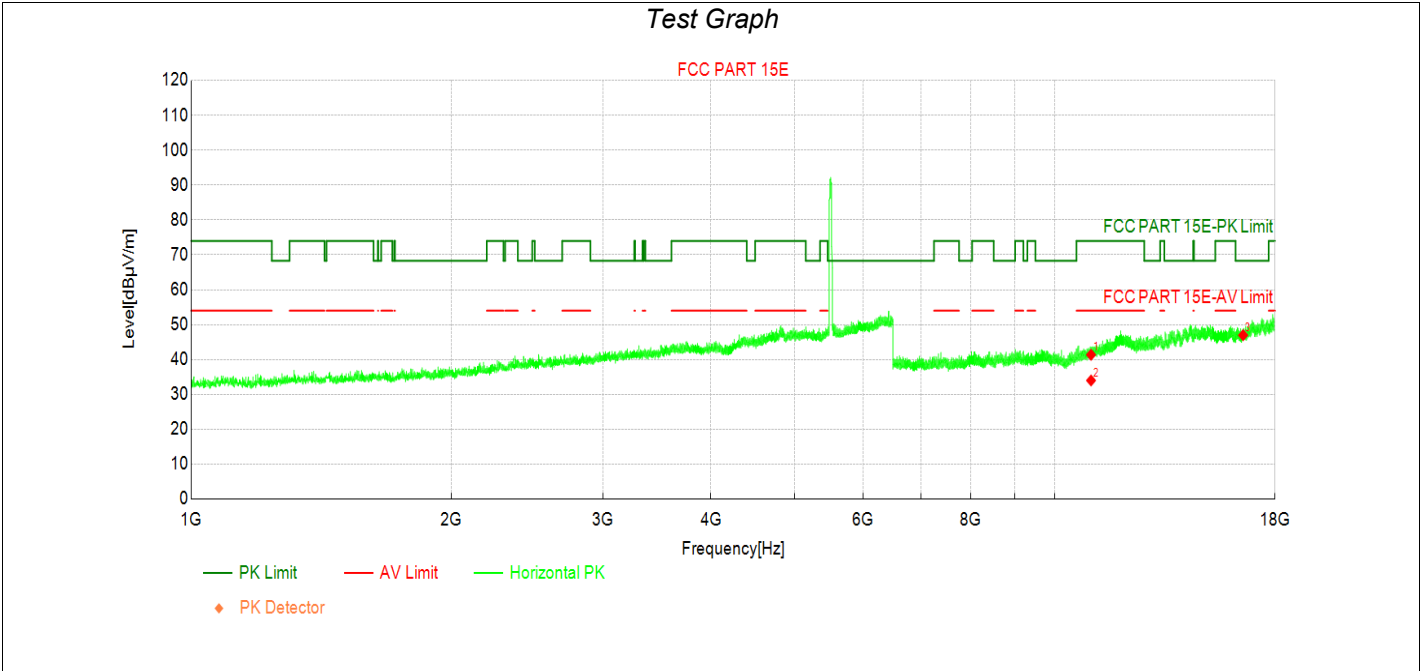
Transmit at 5310MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10620.00	34.56	42.59	8.03	74.00	31.41	PK	Vertic	PASS
2	10620.00	24.45	32.48	8.03	54.00	21.52	AV	Vertic	PASS
3	15930.00	29.64	46.05	16.41	74.00	27.95	PK	Vertic	PASS
4	15930.00	22.18	38.59	16.41	54.00	15.41	AV	Vertic	PASS

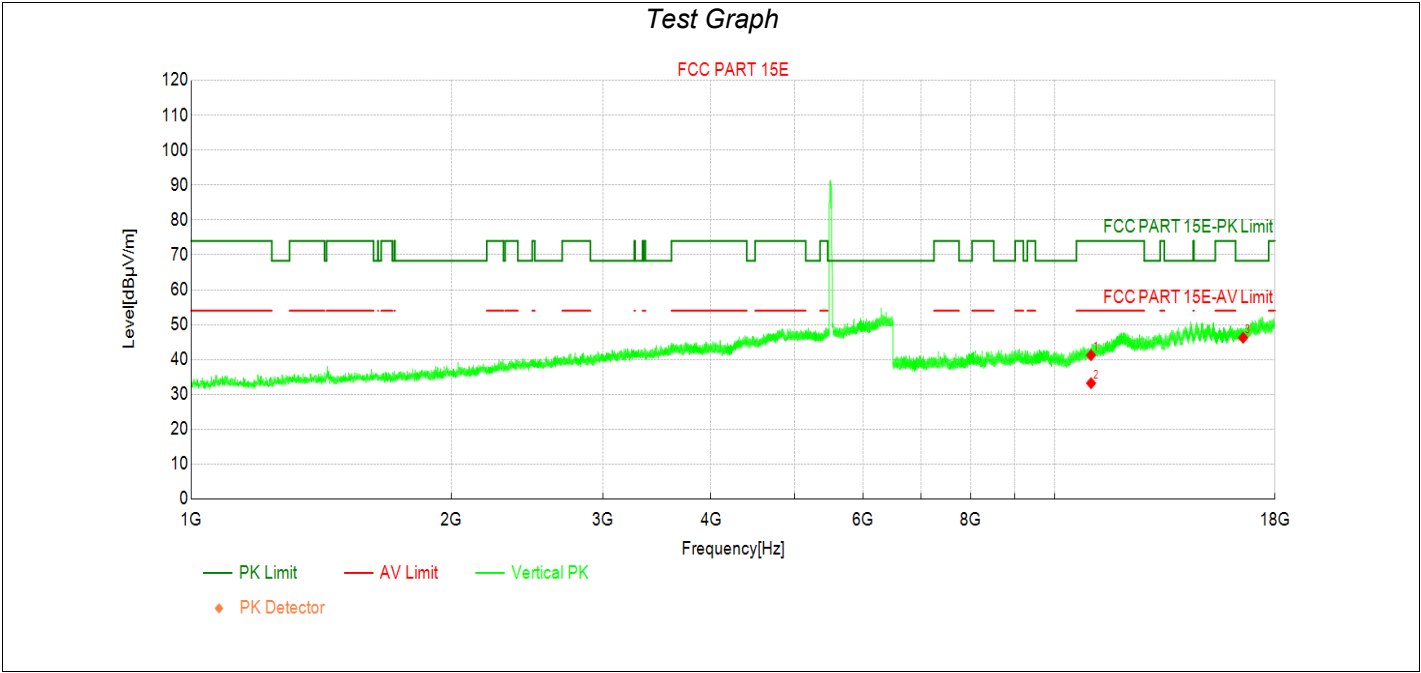
Transmit at 5510MHz by 802.11n(40MHz) with Ant1



Data List

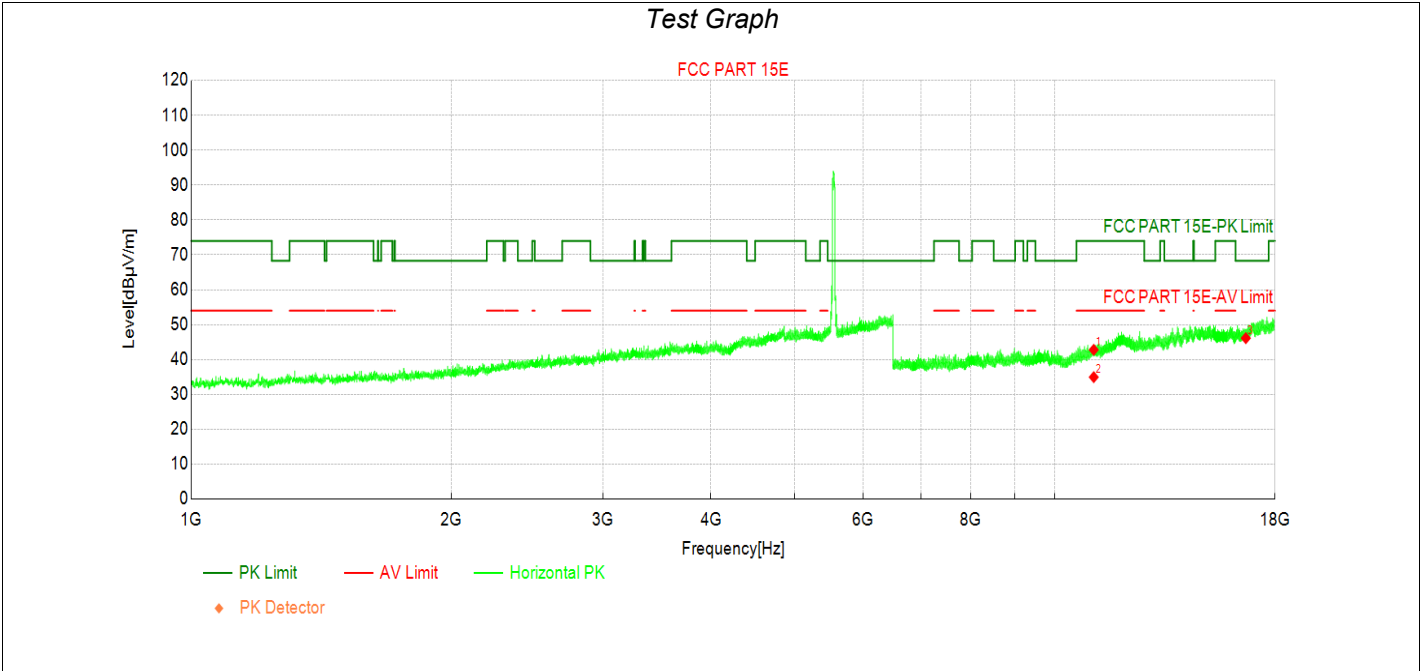
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11020.00	32.30	41.38	9.08	74.00	32.62	PK	Horizo	PASS
2	11020.00	24.93	34.01	9.08	54.00	19.99	AV	Horizo	PASS
3	16530.00	30.03	46.99	16.96	68.30	21.31	PK	Horizo	PASS

Transmit at 5510MHz by 802.11n(40MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11020.00	32.17	41.25	9.08	74.00	32.75	PK	Vertic	PASS
2	11020.00	24.15	33.23	9.08	54.00	20.77	AV	Vertic	PASS
3	16530.00	29.29	46.25	16.96	68.30	22.05	PK	Vertic	PASS

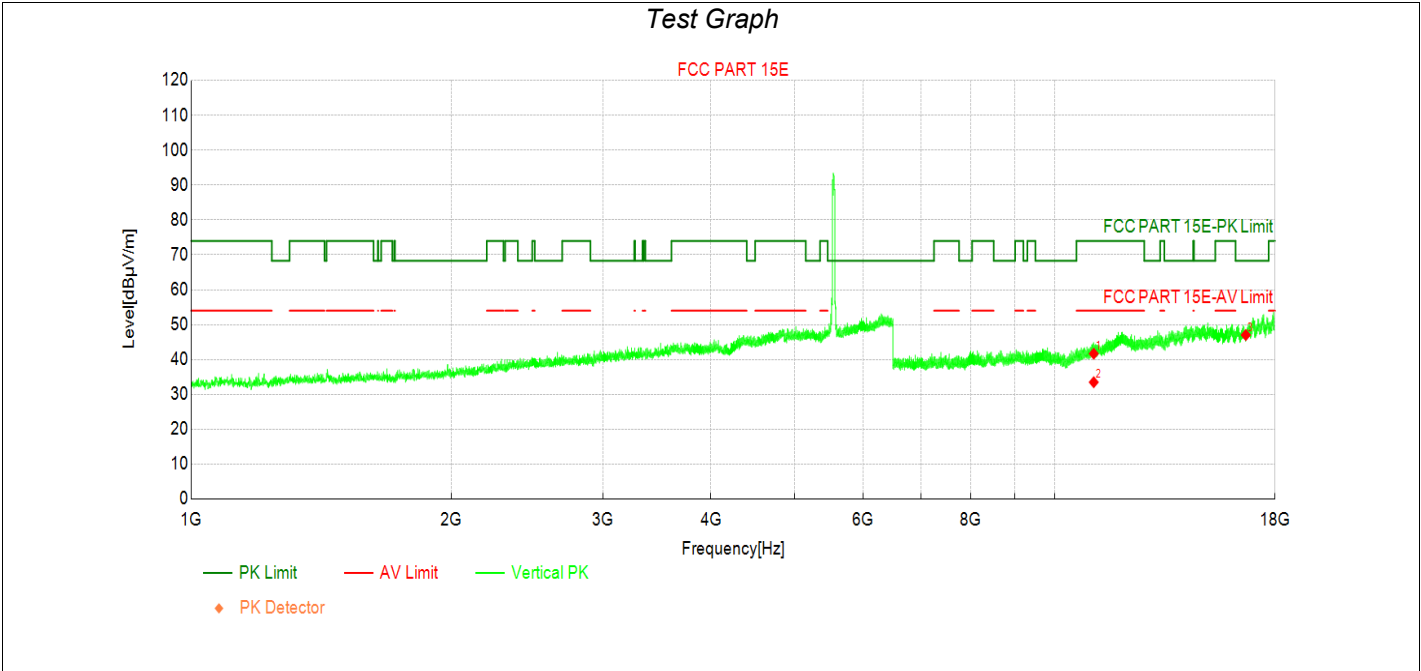
Transmit at 5550MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11100.00	33.80	42.79	8.99	74.00	31.21	PK	Horizo	PASS
2	11100.00	25.98	34.97	8.99	54.00	19.03	AV	Horizo	PASS
3	16650.00	29.05	46.14	17.09	68.30	22.16	PK	Horizo	PASS

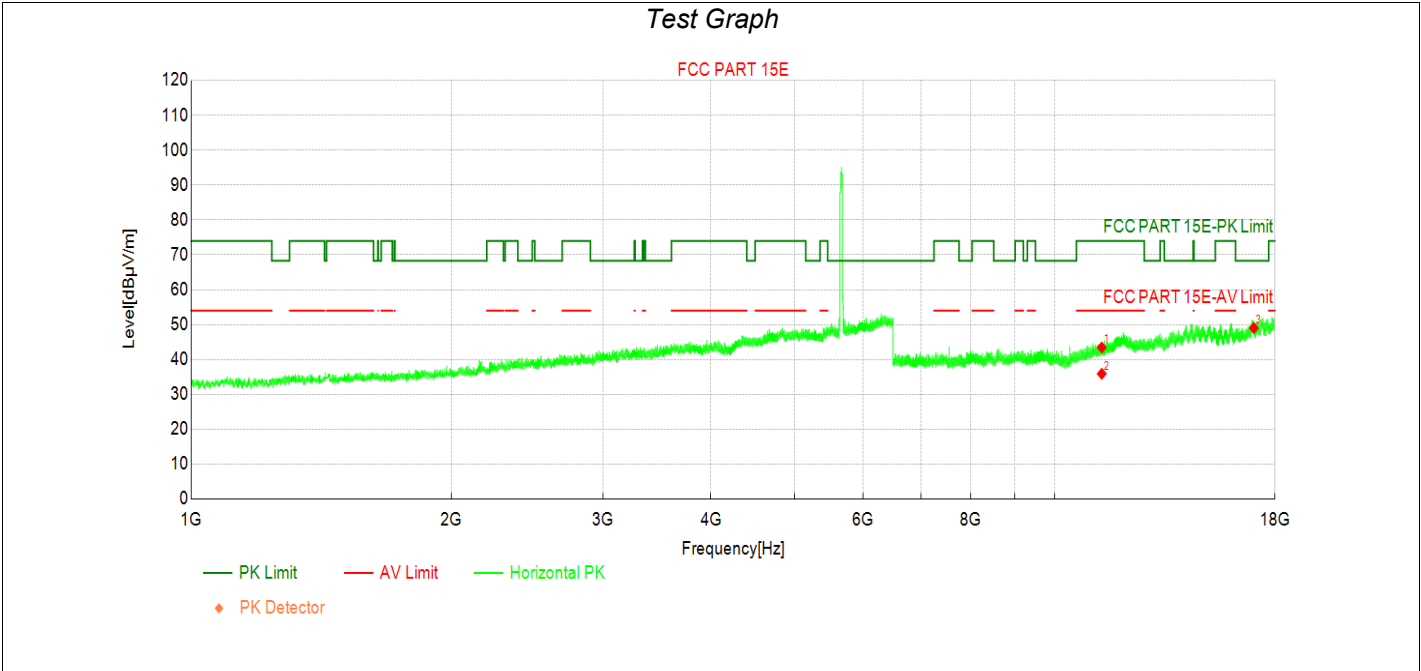
Transmit at 5550MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11100.00	32.70	41.69	8.99	74.00	32.31	PK	Vertic	PASS
2	11100.00	24.51	33.50	8.99	54.00	20.50	AV	Vertic	PASS
3	16650.00	29.95	47.04	17.09	68.30	21.26	PK	Vertic	PASS

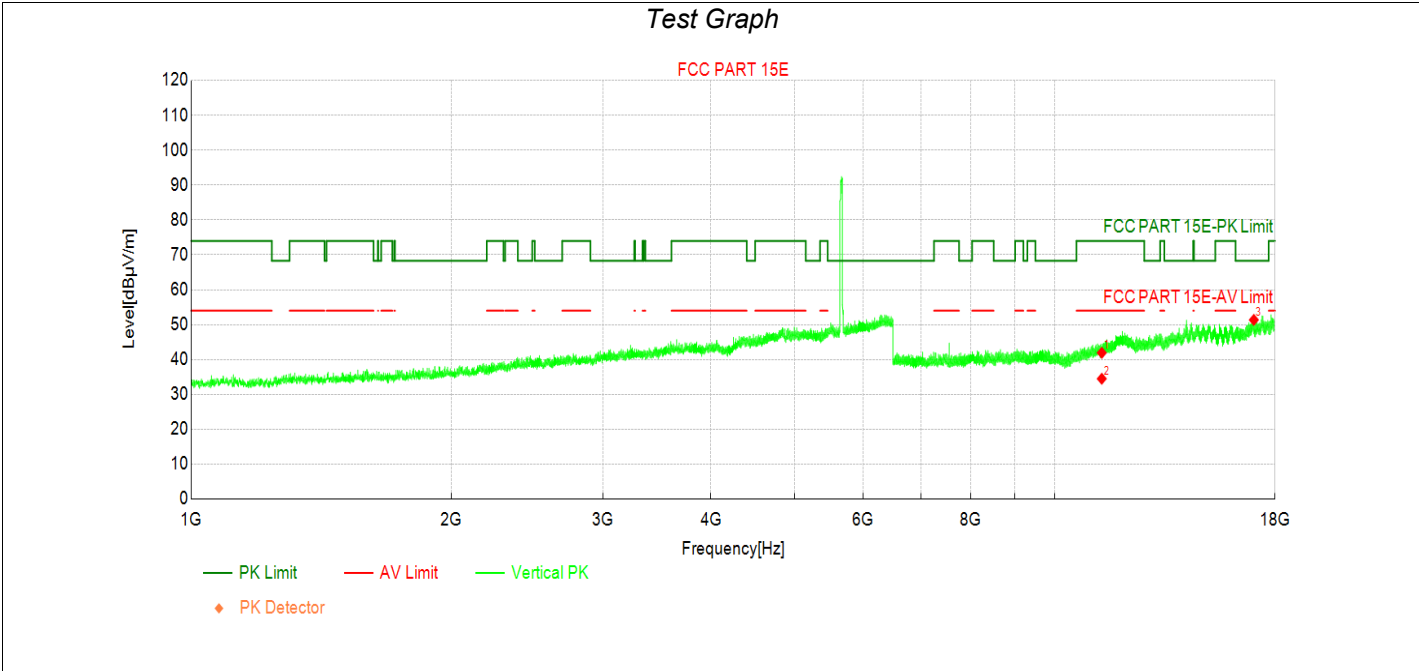
Transmit at 5670MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11340.00	33.82	43.46	9.64	74.00	30.54	PK	Horizo	PASS
2	11340.00	26.28	35.92	9.64	54.00	18.08	AV	Horizo	PASS
3	17010.00	29.58	49.04	19.46	68.30	19.26	PK	Horizo	PASS

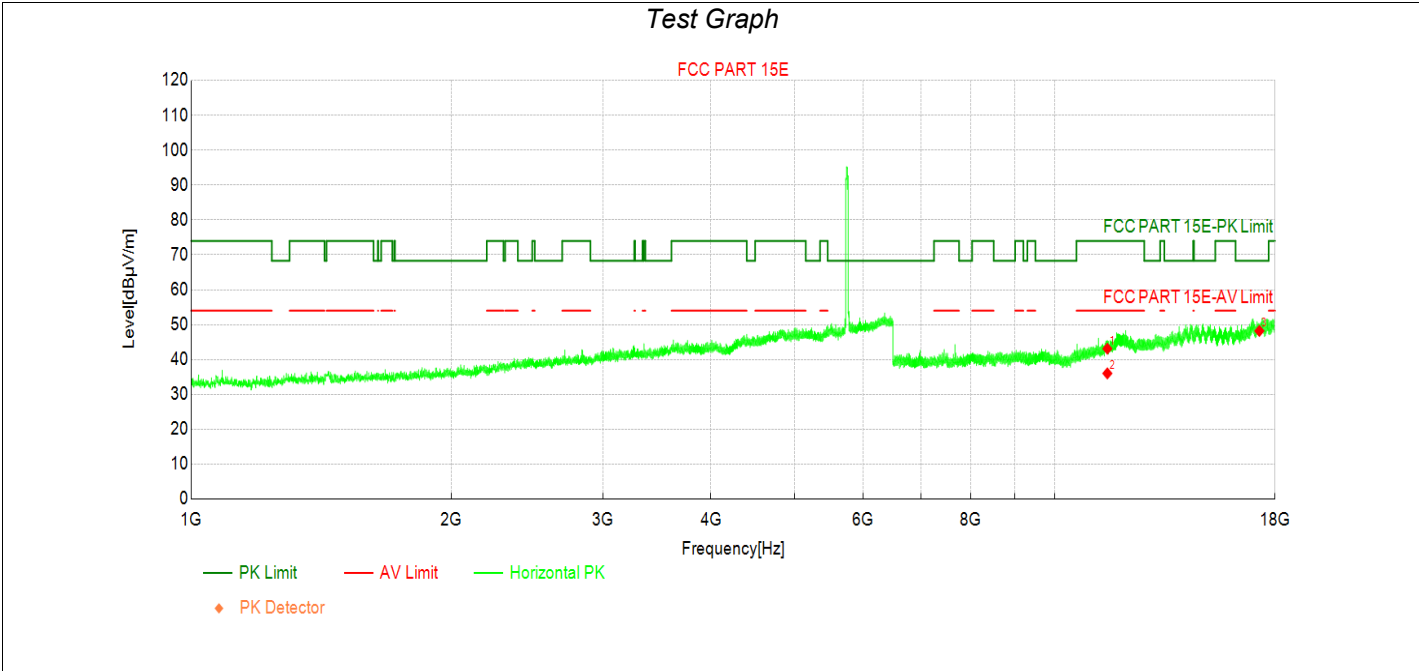
Transmit at 5670MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11340.00	32.30	41.94	9.64	74.00	32.06	PK	Vertic	PASS
2	11340.00	24.86	34.50	9.64	54.00	19.50	AV	Vertic	PASS
3	17010.00	31.91	51.37	19.46	68.30	16.93	PK	Vertic	PASS

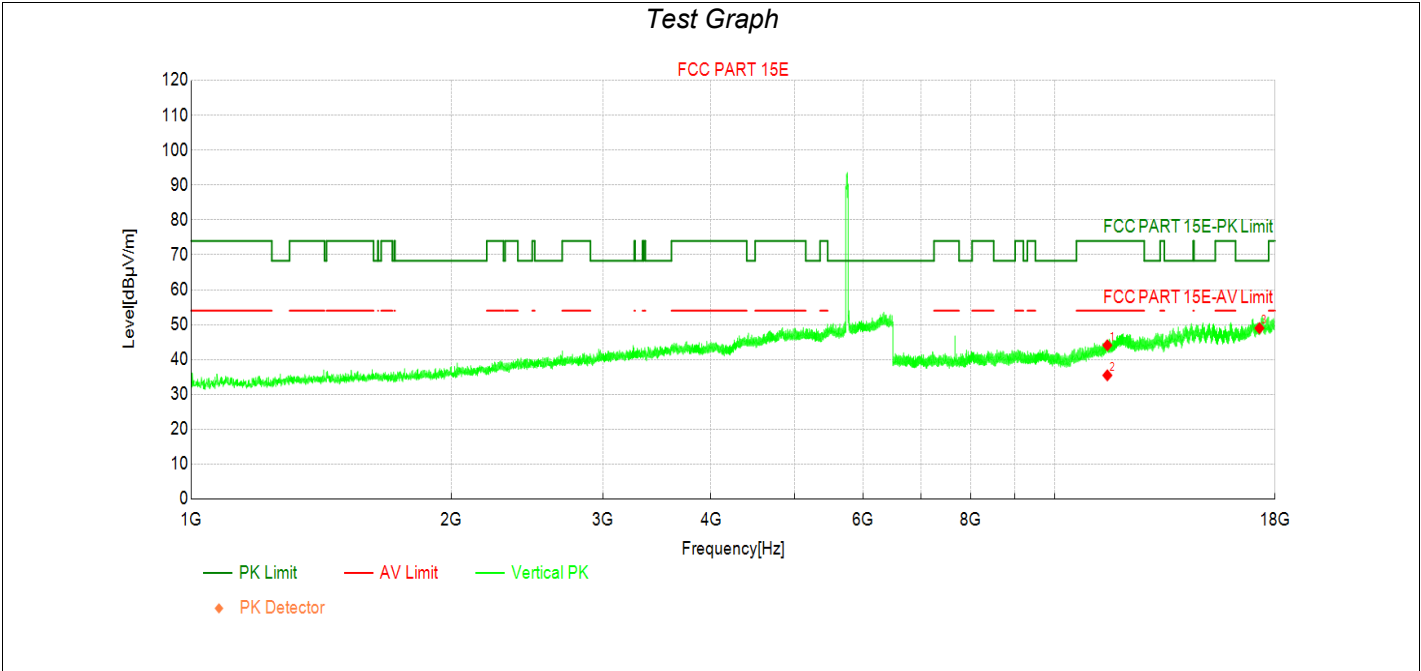
Transmit at 5755MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11510.00	33.04	43.12	10.08	74.00	30.88	PK	Horizo	PASS
2	11510.00	25.96	36.04	10.08	54.00	17.96	AV	Horizo	PASS
3	17265.00	30.19	48.21	18.02	68.30	20.09	PK	Horizo	PASS

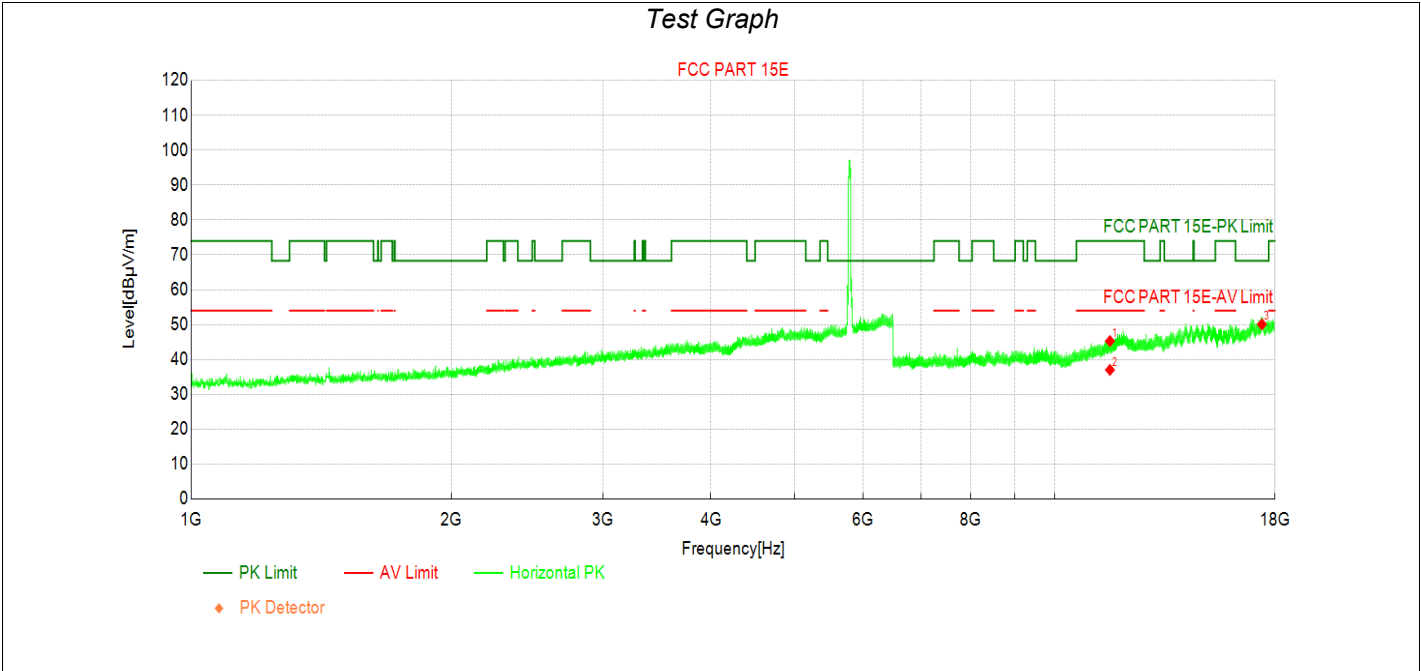
Transmit at 5755MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11510.00	34.01	44.09	10.08	74.00	29.91	PK	Vertic	PASS
2	11510.00	25.41	35.49	10.08	54.00	18.51	AV	Vertic	PASS
3	17265.00	30.98	49.00	18.02	68.30	19.30	PK	Vertic	PASS

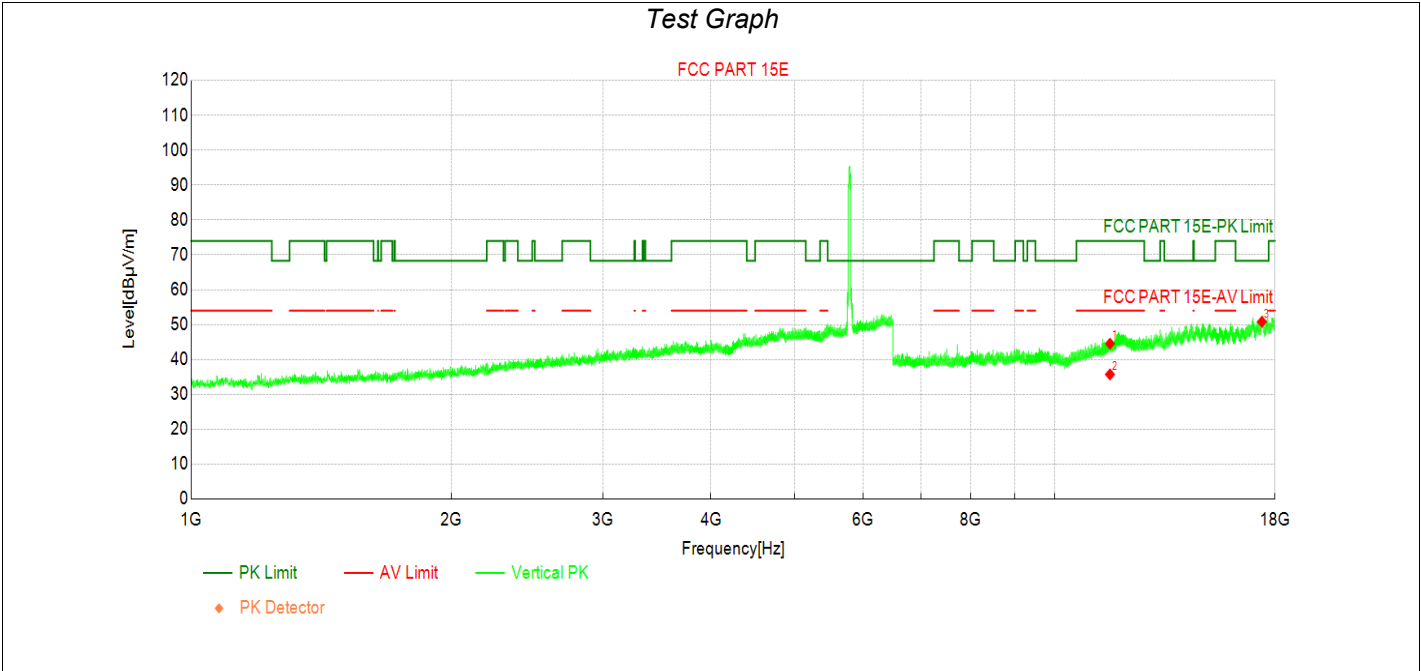
Transmit at 5795MHz by 802.11n(40MHz) with Ant1



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11590.00	34.66	45.30	10.64	74.00	28.70	PK	Horizo	PASS
2	11590.00	26.40	37.04	10.64	54.00	16.96	AV	Horizo	PASS
3	17385.00	30.78	50.10	19.32	68.30	18.20	PK	Horizo	PASS

Transmit at 5795MHz by 802.11n(40MHz) with Ant1



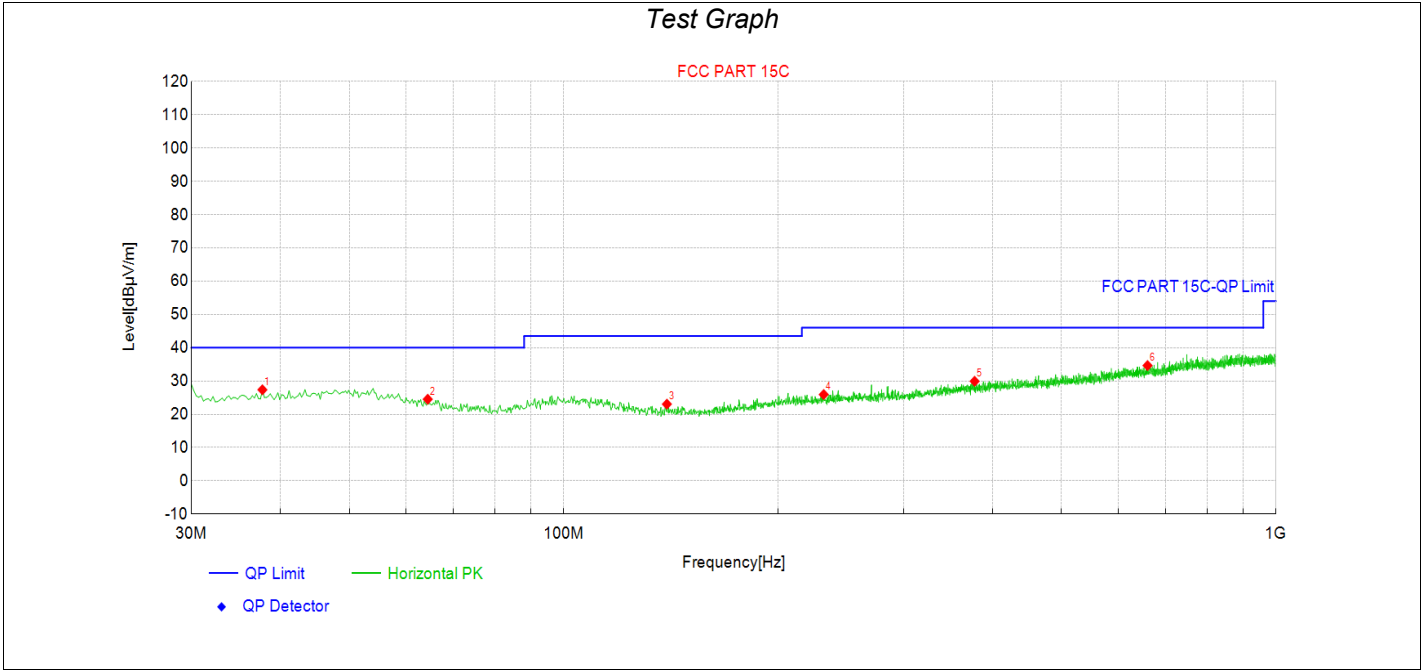
Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11590.00	33.92	44.56	10.64	74.00	29.44	PK	Vertic	PASS
2	11590.00	25.10	35.74	10.64	54.00	18.26	AV	Vertic	PASS
3	17385.00	31.51	50.83	19.32	68.30	17.47	PK	Vertic	PASS

- 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~40GHz 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:

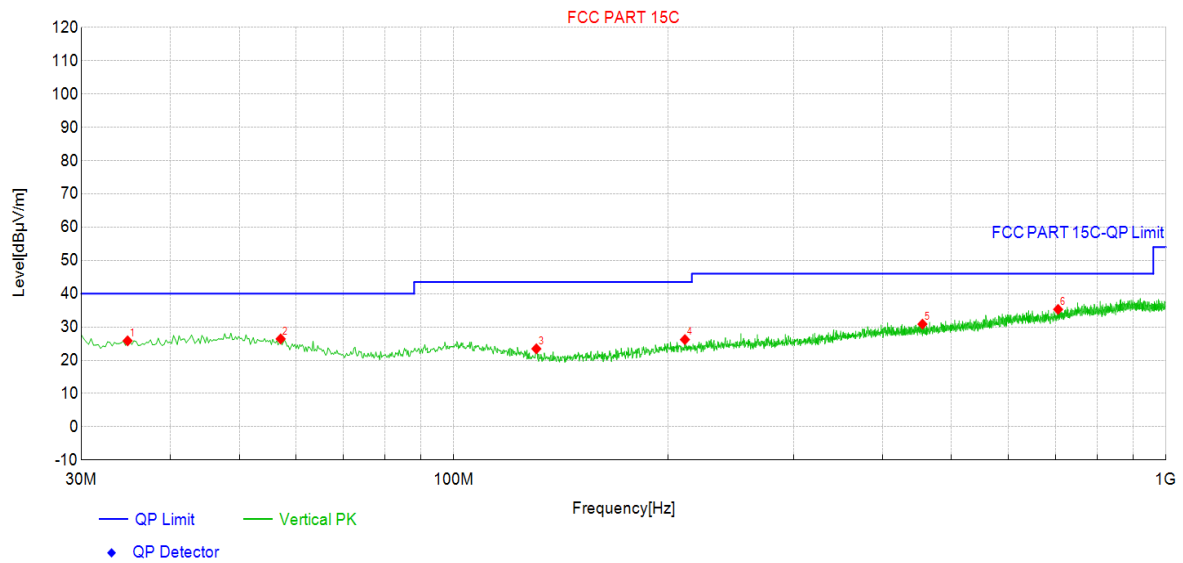
Transmit at 5180MHz by 802.11a with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	37.76	13.9	27.36	13.510	40.00	12.64	PK	Horizo	PASS
2	64.44	12.9	24.51	11.590	40.00	15.49	PK	Horizo	PASS
3	139.61	13.9	23.04	9.180	43.50	20.46	PK	Horizo	PASS
4	231.76	13.2	25.93	12.700	46.00	20.07	PK	Horizo	PASS
5	377.50	14.1	29.91	15.820	46.00	16.09	PK	Horizo	PASS
6	660.26	14.5	34.64	20.110	46.00	11.36	PK	Horizo	PASS

Transmit at 5180MHz by 802.11a with Ant1

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	34.85	12.8	25.84	13.060	40.00	14.16	PK	Vertic	PASS
2	57.16	13.0	26.41	13.420	40.00	13.59	PK	Vertic	PASS
3	130.64	13.9	23.44	9.590	43.50	20.06	PK	Vertic	PASS
4	211.15	14.1	26.20	12.090	43.50	17.30	PK	Vertic	PASS
5	455.10	14.1	30.86	16.770	46.00	15.14	PK	Vertic	PASS
6	705.61	14.8	35.29	20.470	46.00	10.71	PK	Vertic	PASS

Note:

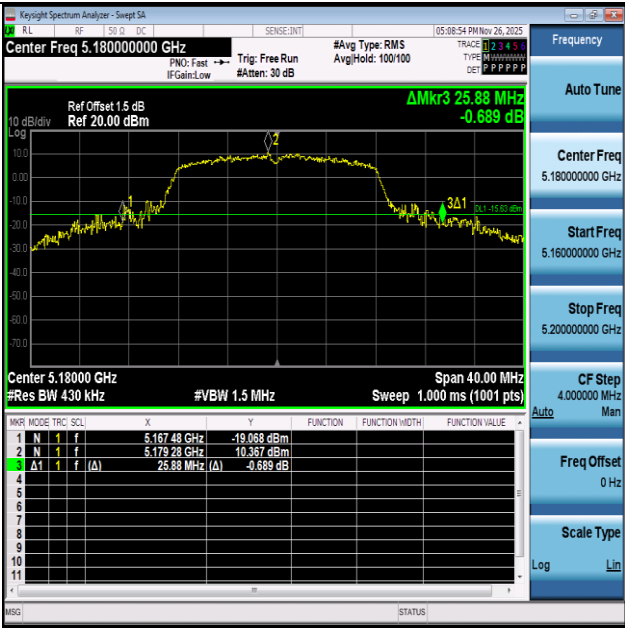
1. All Readings below 1GHz are PK, PK as an alternative to CISPR quasi-peak measurements or average measurements.

2. Level=Reading+Factor.

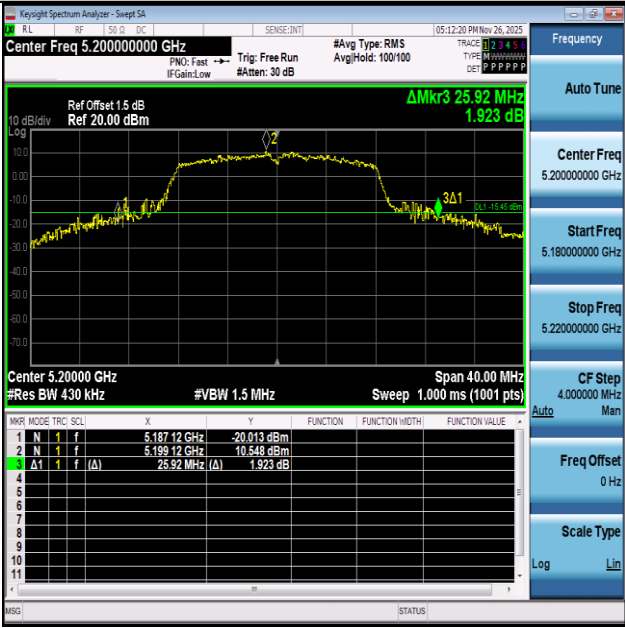
Appendix B: Emission bandwidth and occupied bandwidth

Emission Bandwidth :

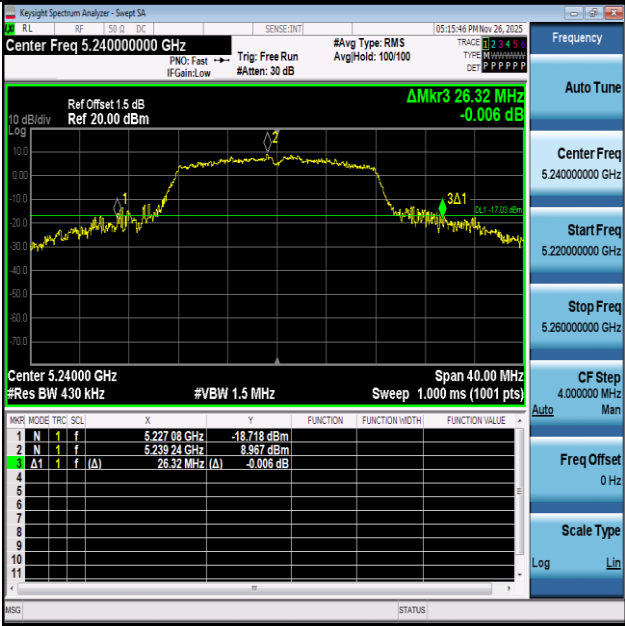
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	25.880	5167.480	5193.360	---	---
11A	Ant1	5200	25.920	5187.120	5213.040	---	---
11A	Ant1	5240	26.320	5227.080	5253.400	---	---
11A	Ant1	5260	29.320	5246.680	5276.000	---	---
11A	Ant1	5280	28.000	5266.800	5294.800	---	---
11A	Ant1	5320	26.080	5307.200	5333.280	---	---
11A	Ant1	5500	20.360	5489.520	5509.880	---	---
11A	Ant1	5580	20.000	5569.800	5589.800	---	---
11A	Ant1	5700	24.000	5687.240	5711.240	---	---
11A	Ant1	5745	26.360	5732.040	5758.400	---	---
11A	Ant1	5785	28.320	5771.640	5799.960	---	---
11A	Ant1	5825	26.480	5812.280	5838.760	---	---
11N20SISO	Ant1	5180	20.840	5169.560	5190.400	---	---
11N20SISO	Ant1	5200	20.920	5189.440	5210.360	---	---
11N20SISO	Ant1	5240	20.960	5229.520	5250.480	---	---
11N20SISO	Ant1	5260	21.080	5249.520	5270.600	---	---
11N20SISO	Ant1	5280	20.800	5269.600	5290.400	---	---
11N20SISO	Ant1	5320	20.960	5309.520	5330.480	---	---
11N20SISO	Ant1	5500	20.920	5489.520	5510.440	---	---
11N20SISO	Ant1	5580	21.040	5569.360	5590.400	---	---
11N20SISO	Ant1	5700	20.800	5689.560	5710.360	---	---
11N20SISO	Ant1	5745	20.880	5734.560	5755.440	---	---
11N20SISO	Ant1	5785	21.040	5774.440	5795.480	---	---
11N20SISO	Ant1	5825	20.960	5814.520	5835.480	---	---
11N40SISO	Ant1	5190	38.960	5170.560	5209.520	---	---
11N40SISO	Ant1	5230	38.880	5210.480	5249.360	---	---
11N40SISO	Ant1	5270	38.720	5250.640	5289.360	---	---
11N40SISO	Ant1	5310	38.800	5290.560	5329.360	---	---
11N40SISO	Ant1	5510	38.800	5490.560	5529.360	---	---
11N40SISO	Ant1	5550	38.880	5530.640	5569.520	---	---
11N40SISO	Ant1	5670	38.720	5650.560	5689.280	---	---
11N40SISO	Ant1	5755	38.800	5735.640	5774.440	---	---
11N40SISO	Ant1	5795	38.560	5775.640	5814.200	---	---



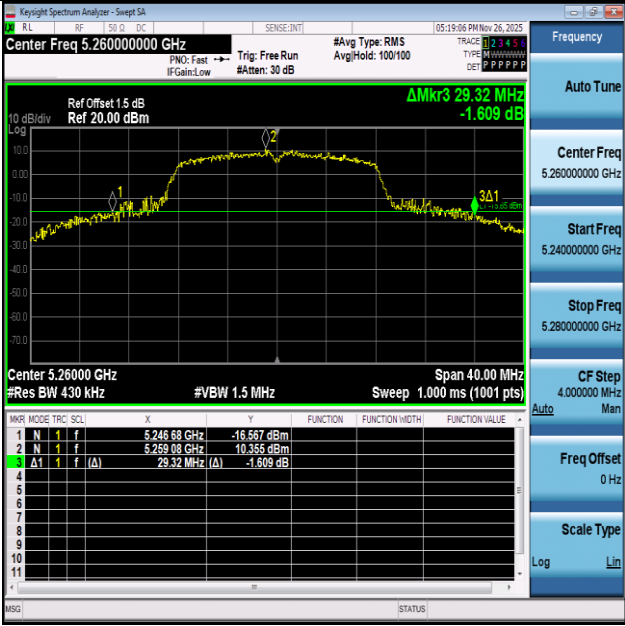
11A-Ant1-5180



11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5260



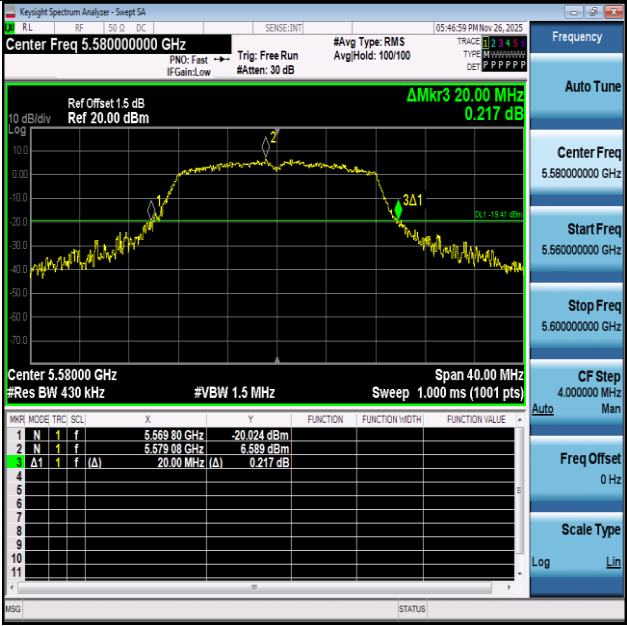
11A-Ant1-5280



11A-Ant1-5320



11A-Ant1-5500



11A-Ant1-5580



11A-Ant1-5700



11A-Ant1-5745