

TEST REPORT

Application No.:	KSCR2505001155AT
FCC ID:	2AW2R-RV101203
Applicant:	Hangzhou Lingban Technology Co., Ltd.
Address of Applicant:	Room 101, Building 8, No.1288, Liangmu Road, Cangqian Street, Yuhang District, Hangzhou, Zhejiang, China
Manufacturer:	Hangzhou Lingban Technology Co., Ltd.
Address of Manufacturer:	Room 101, Building 8, No.1288, Liangmu Road, Cangqian Street, Yuhang District, Hangzhou, Zhejiang, China
Factory:	Lens Technology (XiangTan) Co., Ltd.
Address of Factory:	NO.16 Baishi West Road, Xiangtan Economic and Technological Development Zone, Xiangtan City, Hunan Province, P.R. China
Equipment Under Test (EUT):	
EUT Name:	Rokid Ai Glasses/Rokid Glasses
Model No.:	RV203, RV101, RV102
♦	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	Rokid
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2025-05-30
Date of Test:	2025-06-24 to 2025-07-30
Date of Issue:	2025-08-01

Test Result:	Pass*
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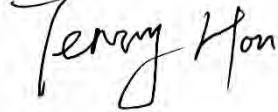
* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Revision Record			
Version	Description	Date	Remark
00	Original	2025-08-01	/

Authorized for issue by:			
Tested By			
		Eric_Liu/Project Engineer	
Approved By			
		Terry Hou /Reviewer	

2 Test Summary

Radio Spectrum Technical Requirement					
Item	Standard	Method	FCC Requirement	Result	Test Lab
Antenna Requirement	47 CFR Part 15, Subpart C 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass	A
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass	A

N/A: Not applicable

Radio Spectrum Matter Part					
Item	Standard	Method	FCC Requirement	Result	Test Lab
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.407	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6)	Pass	A
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass	A
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Radiated Emissions		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	B
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Frequency Stability		ANSI C63.10 (2020) Section 6.8& RSS-Gen Section 6.11	47 CFR Part 15, Subpart E 15.407 (g)	Pass	A
Non-occupancy period		KDB 905462 D02 Section 7.8.3	47 CFR Part 15, Subpart E 15.407	Pass	A
Channel Move Time		KDB 905462 D02 Section 7.8.3	47 CFR Part 15, Subpart E 15.407	Pass	A
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	47 CFR Part 15, Subpart E 15.407	Pass	A

Note: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model RV203 was tested since their differences were the model number and lens.

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4 General Information

4.1 Details of E.U.T.

Test Voltage:	Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case
Power supply:	DC 3.92V by battery
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels) U-NII-2A: 5260-5320MHz (4 Channels) U-NII-2C: 5500-5700MHz (8 Channels) U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels) U-NII-2A: 5270-5310MHz (2 Channels) U-NII-2C: 5510-5670MHz (3 Channels) U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel) U-NII-2A: 5290MHz (1 Channel) U-NII-2C: 5530MHz (1 Channel) U-NII-3: 5775MHz (1 Channel)
Operation Frequency/Number of channels (160MHz):	U-NII-1/ U-NII-2A: 5250MHz (1 Channel)
Modulation Type:	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, 1024-QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz 802.11n/ac/ax 40: 40MHz 802.11ac/ax 80: 80MHz 802.11ac/ax 160: 160MHz
DFS Function:	Slave without Radar detection
Antenna Type:	Ceramic Chip Loop Antenna
Antenna Gain:	B1: 0.74dBi (Provided by the manufacturer) B2: -0.7dBi (Provided by the manufacturer) B3: 0.52dBi (Provided by the manufacturer) B4: 1.26dBi (Provided by the manufacturer)

4.2 Power level setting using in test

Channel	802.11a	802.11n(HT20)/ac(VHT20)	802.11ax(HEW20)
	Ant 1	Ant 1	Ant 1
36	16	16	16
40	16.5	16	16
48	17	16	16
52	15.5	15.5	15
60	15.5	16	15
64	15.5	16	15
100	18	18	17
116	16	16	16
140	15.5	15	15
149	13.5	13.5	13.5
157	13.5	13.5	13.5
165	13.5	13.5	13.5
Channel	802.11n(HT40)/ac(VHT40)	802.11ax(HEW40)	
	Ant 1	Ant 1	
38	16	16	
46	16	16	
54	14.5	15	
62	14.5	15	
102	16	15	
110	15	15	
134	14	14	
151	13.5	13.5	
159	13.5	13.5	
Channel	802.11ac(VHT80)	802.11ax(HEW80)	
	Ant 1	Ant 1	
42	17	17	
58	15	15	
106	15	15	
155	13.5	13.5	
Channel	802.11ac(VHT160)	802.11ax(HEW160)	
	Ant 1	Ant 1	
50	14	14	

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Test Location

All tests were performed at:

Test Lab: A

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

Test Lab: B

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)

Pilot Free Trade Zone

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.6 Test Facility

Test Lab: A

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

Test Lab: B

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Test Lab: A

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESCI	KS301196	08/01/2024	07/31/2025
2	LISN	R&S	ENV216	KS301197	01/15/2025	01/14/2026
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/15/2025	01/14/2026
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	12/05/2024	12/04/2025
5	CE test Cable	Thermax	/	CZ301102	01/14/2025	01/13/2026
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/01/2024	07/31/2025
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/01/2024	07/31/2025
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2025	01/14/2026
4	Signal Generator	R&S	SMBV100B	KSEM032	02/19/2025	02/18/2026
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/02/2024	08/01/2025
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/01/2024	07/31/2025
7	Signal Generator	Agilent	E8257C	KS301066	08/06/2024	08/05/2025
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/01/2024	07/31/2025
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	02/19/2025	02/18/2026
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/13/2024	08/12/2025
11	Switcher	TST	FY562	KUS2001M001-4	01/15/2025	01/14/2026
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/14/2025	01/13/2026
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KSES104904	08/26/2024	08/25/2025
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	02/26/2025	02/25/2026
15	Software	BST	TST-PASS	/	NCR	NCR

Test Lab: B

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/20/2025	1/19/2026
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2024	11/20/2025
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	8/22/2024	8/21/2026
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/7/2025	5/6/2027
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2027
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2027
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/15/2025	1/14/2026
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/15/2025	1/14/2026
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026
Measurement Software	Tonscend	JS32-RE	SUWI-02-09-04	NCR	NCR
Measurement Software		V4.0.0.0			
Measurement Software	Tonscend	JS32-RSE	SUWI-02-09-06	NCR	NCR
Router		4.0.0.1			
Router	PLANET	FSD-803	SUWI-03-14-01	NCR	NCR

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is Ceramic Chip Loop Antenna and no consideration of replacement. The best case gain of the Antenna is B1:0.74dBi, B2: -0.7dBi, B3: 0.52dBi, B4: 1.26dBi.

Antenna location: Refer to internal photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Conclusion Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)
Test Method: ANSI C63.10 (2020) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

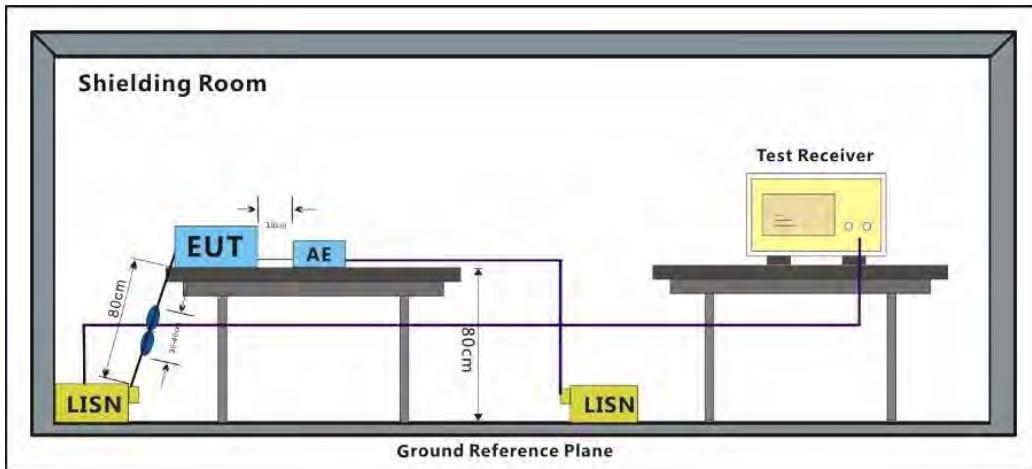
Operating Environment:

Temperature: 20.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



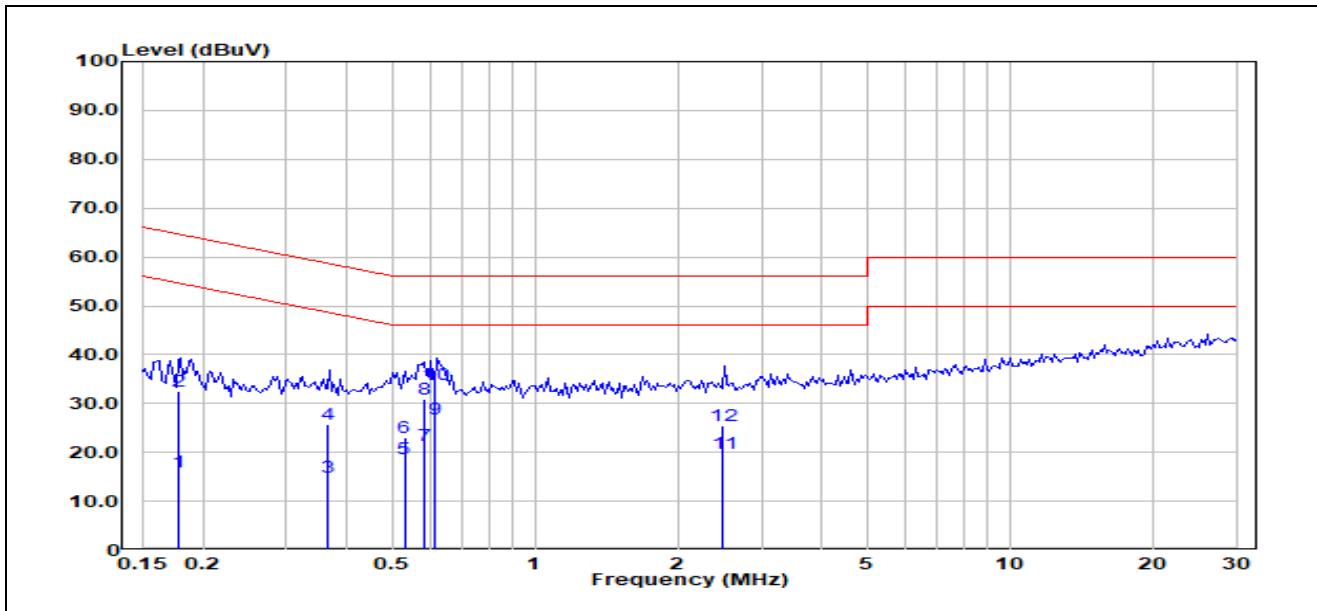
7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\text{ohm}/50\mu\text{H} + 5\text{ohm}$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark 1: Level=Read Level+ Cable Loss+ LISN Factor

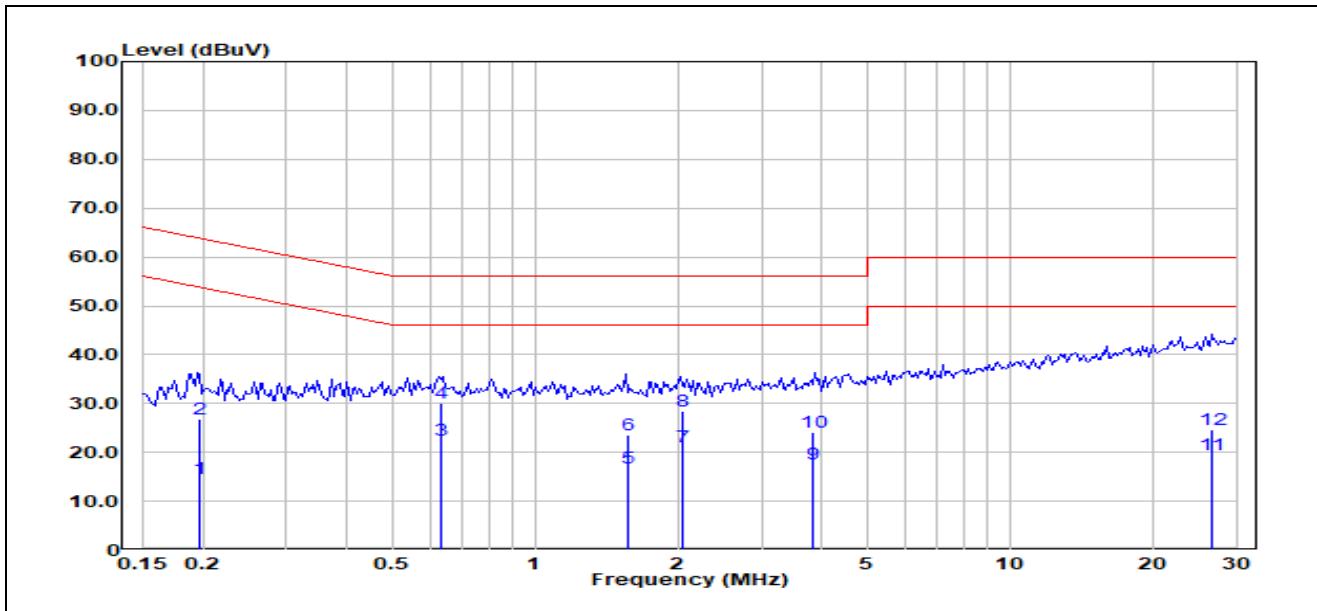
Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.

Test Mode: 04; Line: Live line

Test Data :

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1784	-4.31	20.18	15.87	54.56	-38.69	Average
2	0.1784	12.32	20.18	32.50	64.56	-32.06	QP
3	0.3669	-5.11	20.08	14.97	48.57	-33.60	Average
4	0.3669	5.60	20.08	25.68	58.57	-32.89	QP
5	0.5310	-1.49	20.07	18.58	46.00	-27.42	Average
6	0.5310	3.00	20.07	23.07	56.00	-32.93	QP
7	0.5846	1.38	20.07	21.45	46.00	-24.55	Average
8	0.5846	10.90	20.07	30.97	56.00	-25.03	QP
9	0.6168	6.69	20.06	26.75	46.00	-19.25	Average
10	0.6168	13.82	20.06	33.88	56.00	-22.12	QP
11	2.4920	-0.70	20.35	19.65	46.00	-26.35	Average
12	2.4920	5.09	20.35	25.44	56.00	-30.56	QP

Test Mode: 04; Line: Neutral Line

Test Data :

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1968	-5.49	20.19	14.70	53.75	-39.05	Average
2	0.1968	6.53	20.19	26.72	63.75	-37.03	QP
3	0.6344	2.44	20.02	22.46	46.00	-23.54	Average
4	0.6344	10.09	20.02	30.11	56.00	-25.89	QP
5	1.5680	-3.38	20.12	16.74	46.00	-29.26	Average
6	1.5680	3.42	20.12	23.54	56.00	-32.46	QP
7	2.0490	1.03	20.22	21.25	46.00	-24.75	Average
8	2.0490	8.19	20.22	28.41	56.00	-27.59	QP
9	3.8660	-3.37	20.92	17.55	46.00	-28.45	Average
10	3.8660	3.20	20.92	24.12	56.00	-31.88	QP
11	26.5890	-8.50	28.04	19.54	50.00	-30.46	Average
12	26.5890	-3.47	28.04	24.57	60.00	-35.43	QP

7.2 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10 (2020) Section 12.3

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>

7.2.1 E.U.T. Operation

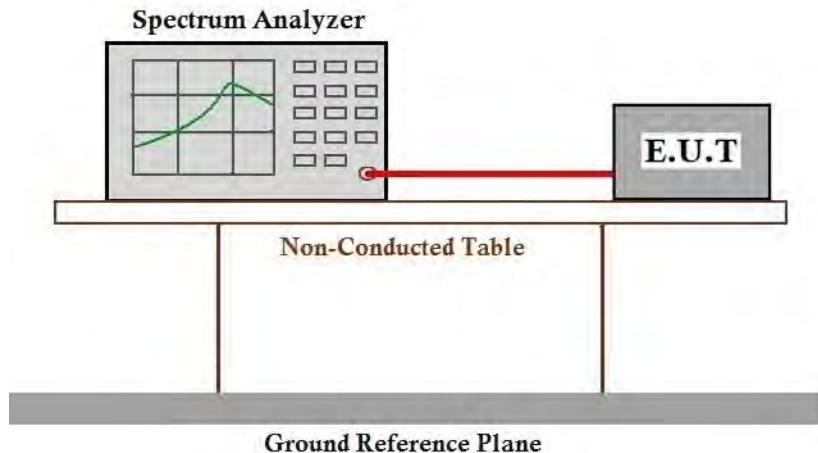
Operating Environment:

Temperature: 20.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details

7.3 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Measurement Distance: 3M

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

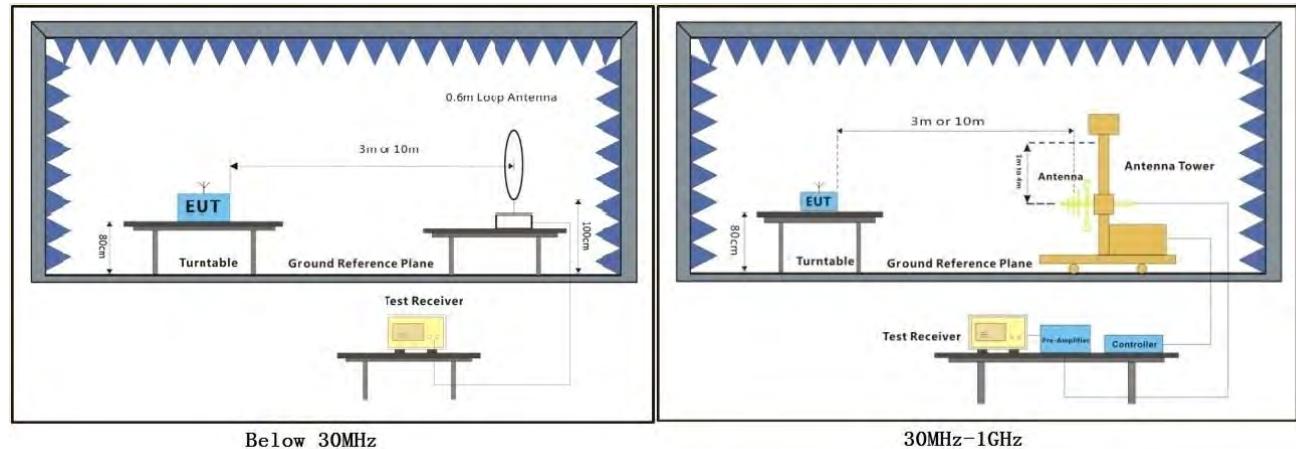
Humidity: 50.6 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



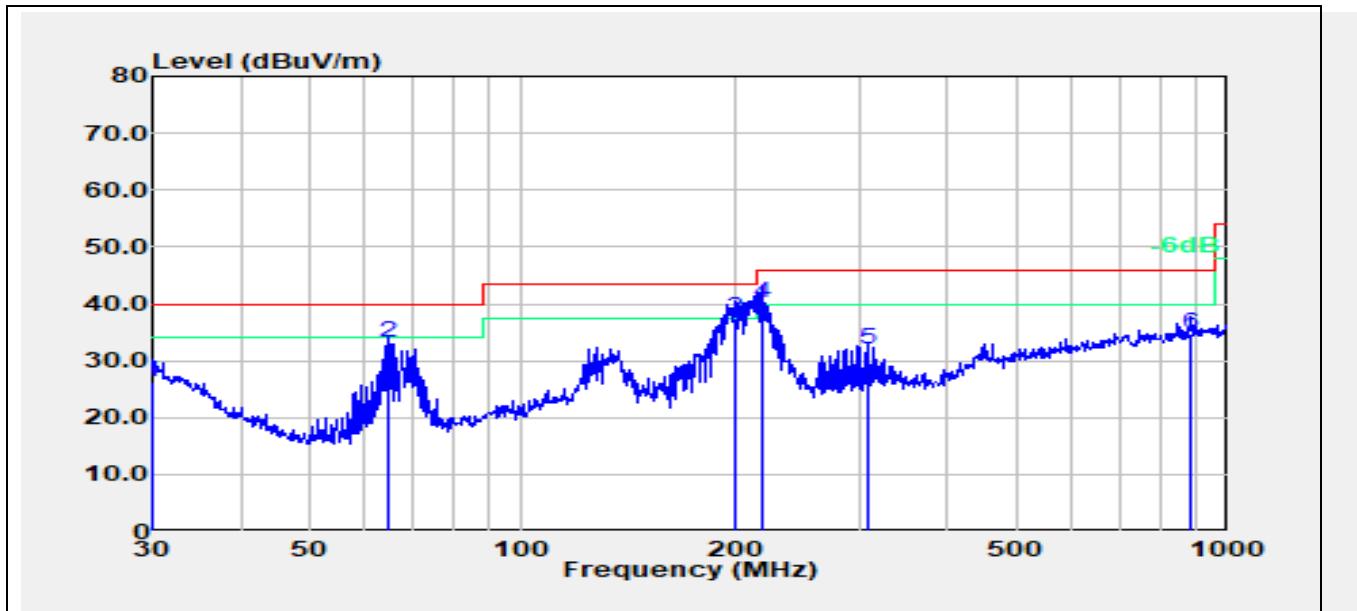
7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

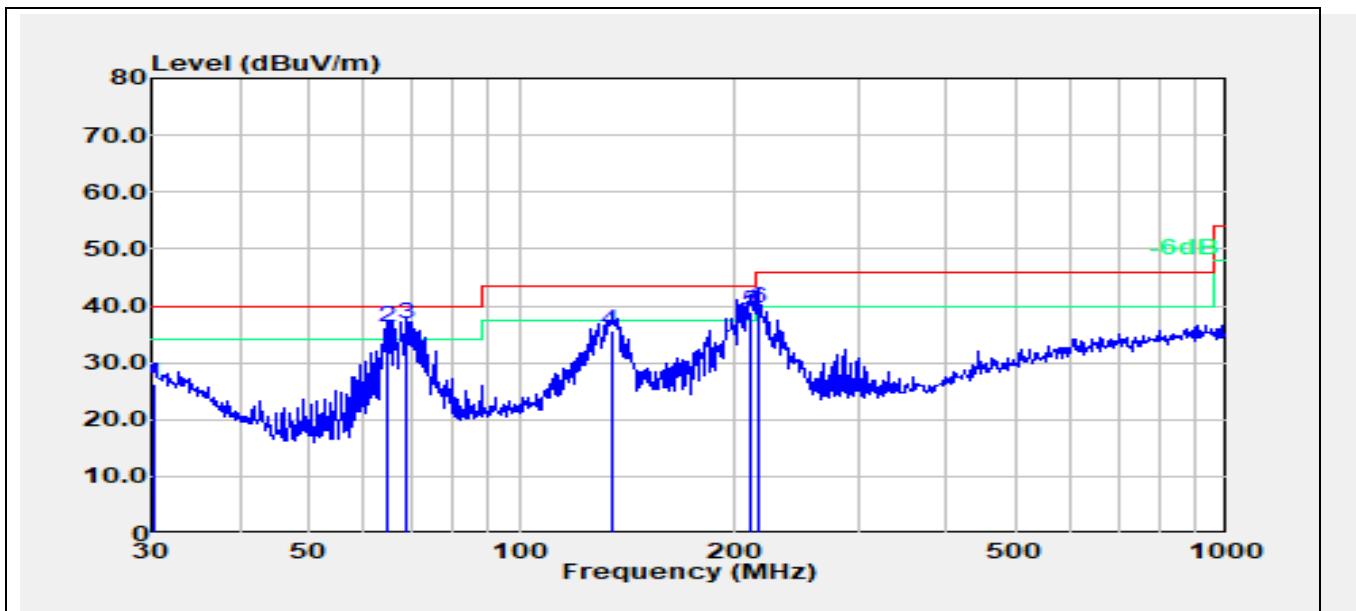
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Test Mode: 04; Polarity: Horizontal

Test Data :

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.105	1.19	25.04	26.23	40.00	-13.77	100	334	QP
2	64.433	21.07	12.22	33.29	40.00	-6.71	200	38	QP
3	200.688	20.13	17.16	37.29	43.50	-6.21	100	8	QP
4	219.075	21.89	18.24	40.13	46.00	-5.87	200	18	QP
5	309.998	10.04	21.81	31.85	46.00	-14.15	200	186	QP
6	884.503	3.29	31.28	34.57	46.00	-11.43	100	52	QP

Test Mode: 04; Polarity: Vertical

Test Data :

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.211	1.17	24.95	26.12	40.00	-13.88	100	5	QP
2	64.433	24.15	12.22	36.37	40.00	-3.63	100	129	QP
3	68.631	23.68	13.06	36.74	40.00	-3.26	100	95	QP
4	134.088	15.69	20.02	35.71	43.50	-7.79	100	306	QP
5	210.786	20.98	18.02	39.00	43.50	-4.50	100	352	QP
6	216.783	21.51	18.17	39.68	46.00	-6.32	100	18	QP

7.4 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3M

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 50.6 % RH

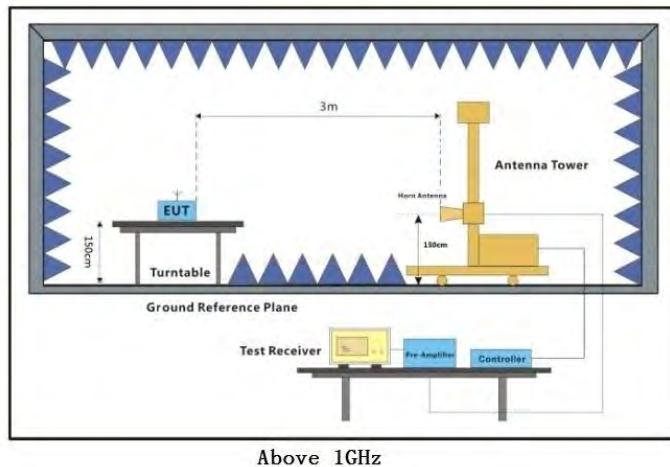
Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan /	Mode	Description
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Final test	Code	
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram

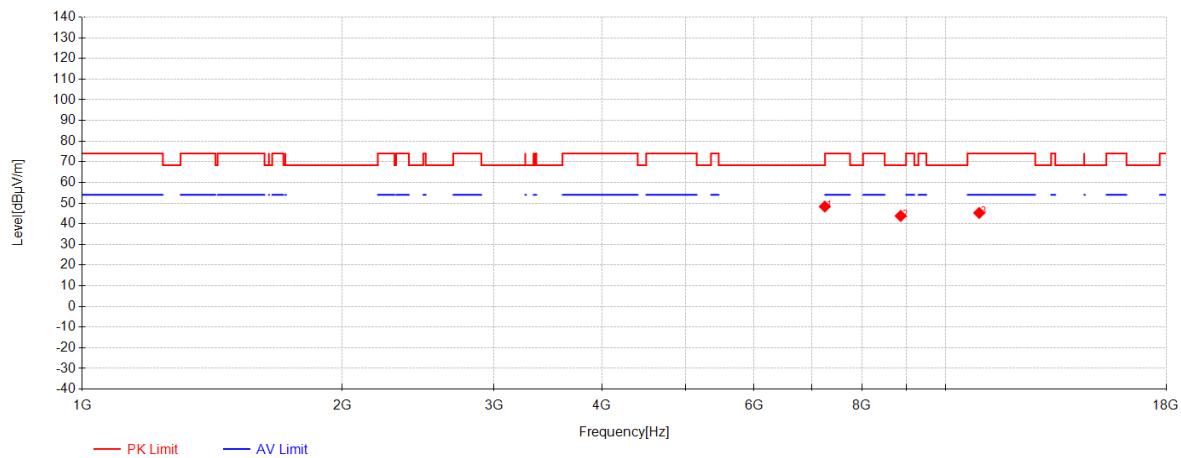


7.4.4 Measurement Procedure and Data

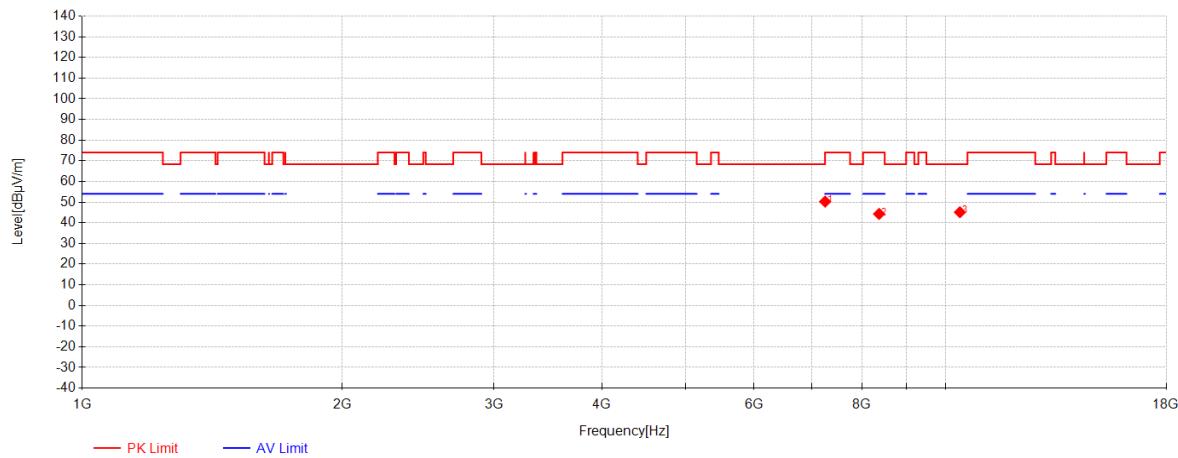
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

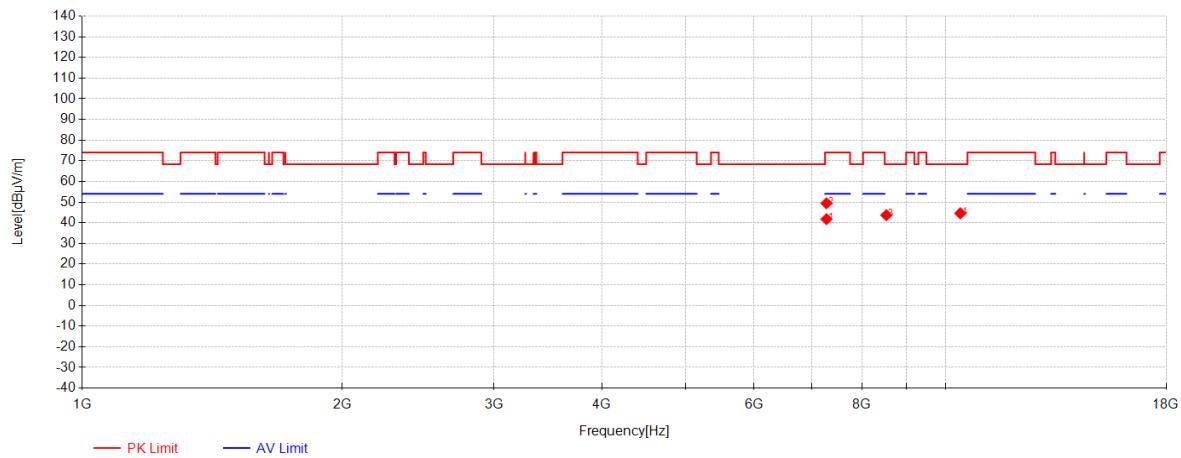
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

802.11a_Channel 36

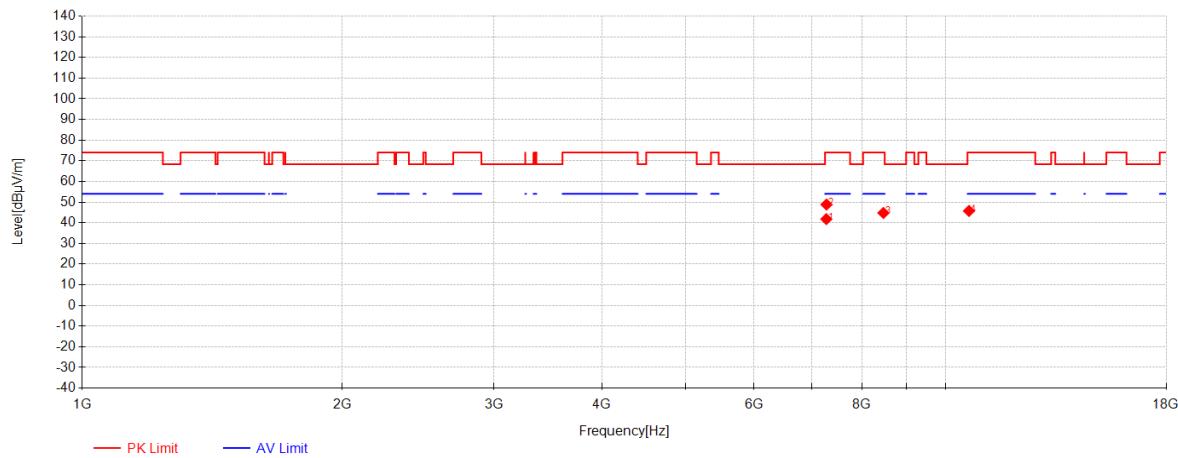
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7245.9667	49.78	36.30	-37.71	48.36	68.30	19.94	Horizontal
2	8871.6833	41.43	37.54	-35.15	43.81	68.30	24.49	Horizontal
3	10937.466	37.31	38.37	-30.42	45.25	74.00	28.75	Horizontal

802.11a_Channel 36

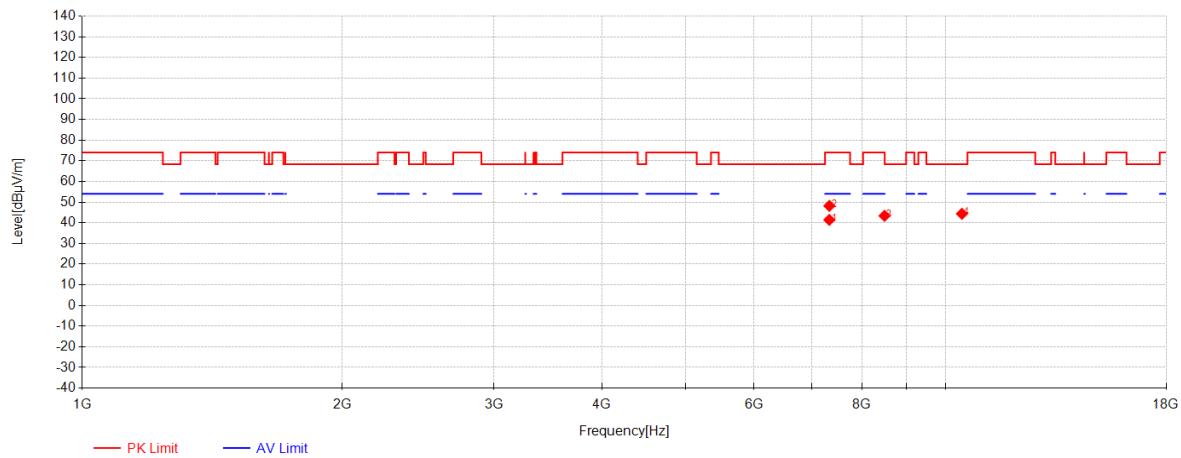
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7252.1	51.64	36.30	-37.69	50.25	74.00	23.75	Vertical
2	8374.8833	42.85	37.29	-35.84	44.30	74.00	29.70	Vertical
3	10388.15	38.28	38.09	-31.26	45.12	68.30	23.18	Vertical

802.11a_Channel 40

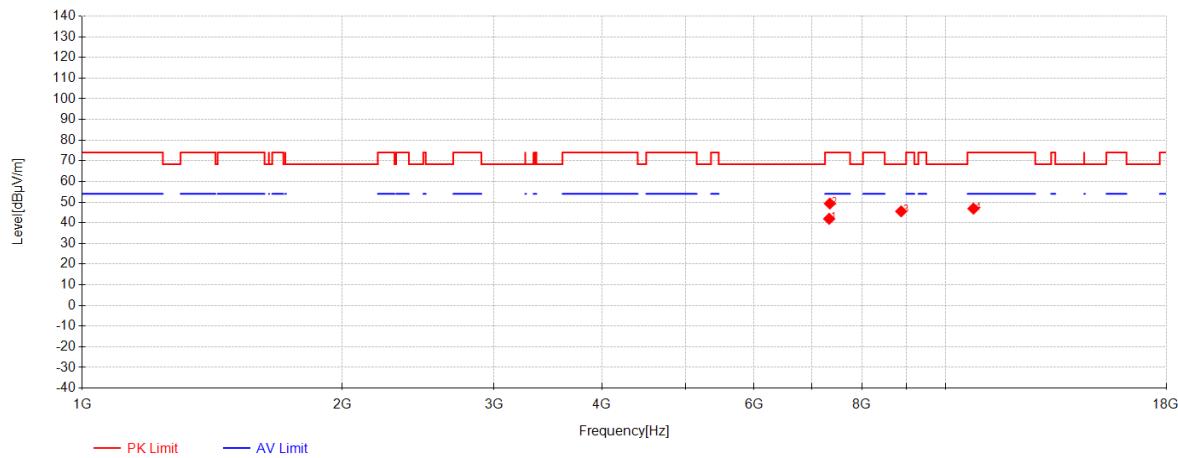
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7277.7833	43.06	36.33	-37.62	41.77	54.00	12.23	Horizontal
2	7277.4	50.73	36.33	-37.62	49.44	74.00	24.56	Horizontal
3	8537.4167	41.94	37.37	-35.60	43.70	68.30	24.60	Horizontal
4	10400.0333	37.66	38.10	-31.16	44.60	68.30	23.70	Horizontal

802.11a_Channel 40

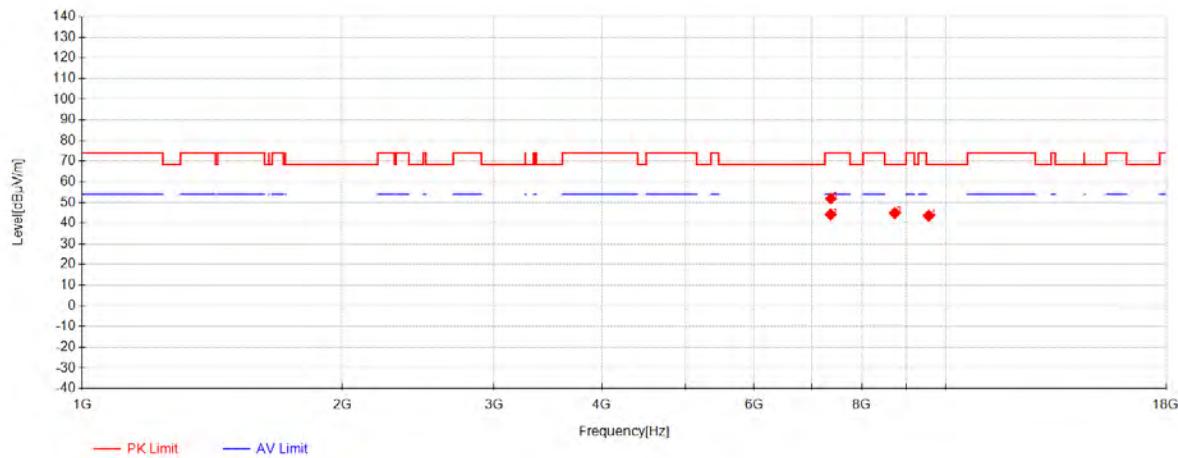
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7275.4833	43.09	36.33	-37.63	41.79	54.00	12.21	Vertical
2	7278.55	50.12	36.33	-37.62	48.83	74.00	25.17	Vertical
3	8471.1	43.22	37.34	-35.78	44.77	74.00	29.23	Vertical
4	10642.6833	38.34	38.22	-30.82	45.75	74.00	28.25	Vertical

802.11a_Channel 48

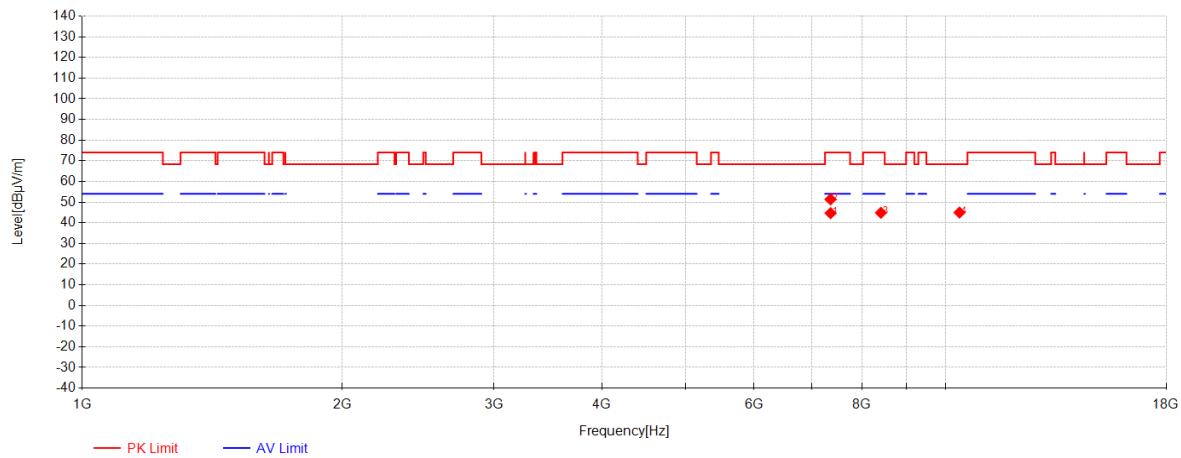
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7333.3667	42.68	36.40	-37.66	41.42	54.00	12.58	Horizontal
2	7334.5167	49.45	36.40	-37.66	48.19	74.00	25.81	Horizontal
3	8497.1667	41.82	37.35	-35.78	43.39	74.00	30.61	Horizontal
4	10444.8833	37.33	38.12	-31.10	44.35	68.30	23.95	Horizontal

802.11a_Channel 48

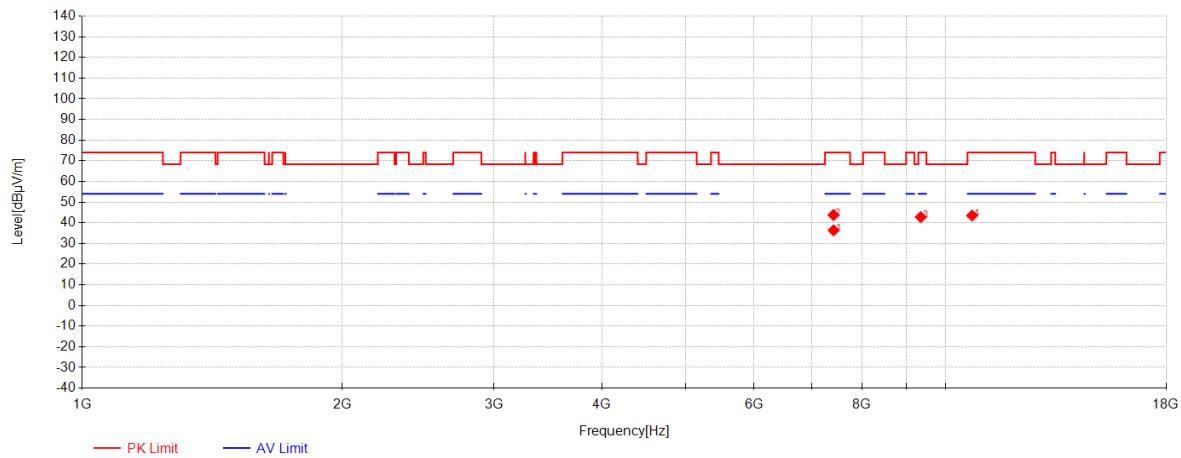
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7331.45	43.19	36.40	-37.65	41.93	54.00	12.07	Vertical
2	7343.3333	50.60	36.41	-37.69	49.32	74.00	24.68	Vertical
3	8882.0333	43.19	37.54	-35.20	45.53	68.30	22.77	Vertical
4	10771.1	38.90	38.29	-30.34	46.85	74.00	27.15	Vertical

802.11a_Channel 52

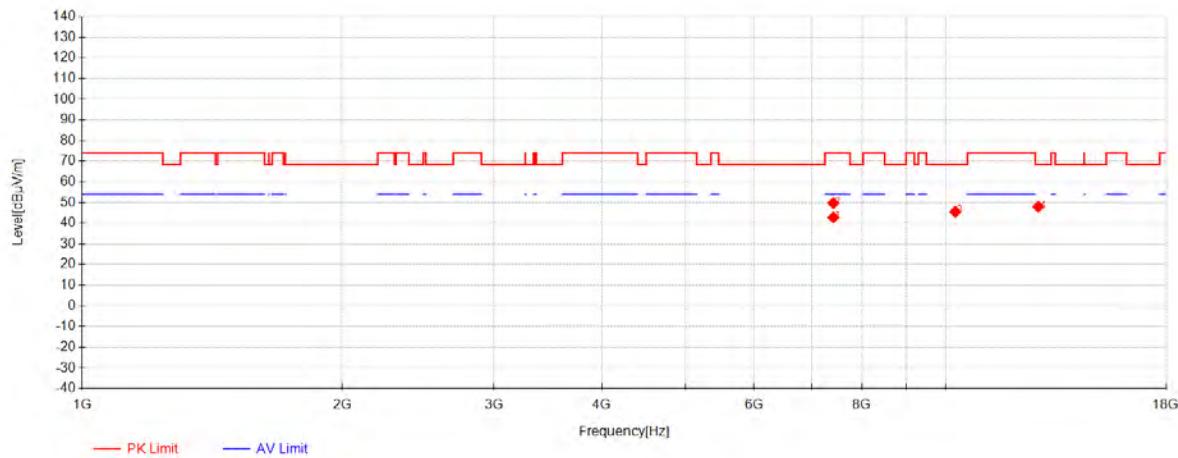
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7357.5167	45.57	36.43	-37.73	44.27	54.00	9.73	Horizontal
2	7363.2667	53.19	36.44	-37.75	51.88	74.00	22.12	Horizontal
3	8732.15	42.52	37.47	-35.07	44.91	68.30	23.39	Horizontal
4	9559	39.42	37.77	-33.54	43.65	68.30	24.65	Horizontal

802.11a_Channel 52

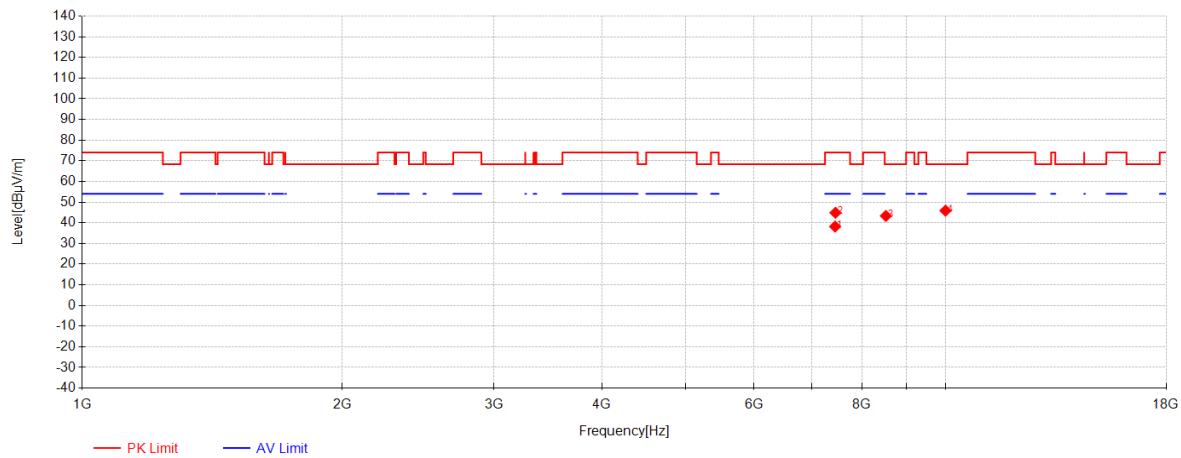
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7357.5167	45.98	36.43	-37.73	44.68	54.00	9.32	Vertical
2	7357.5167	52.65	36.43	-37.73	51.35	74.00	22.65	Vertical
3	8415.9	43.32	37.31	-35.79	44.84	74.00	29.16	Vertical
4	10376.2667	38.23	38.09	-31.35	44.97	68.30	23.33	Vertical

802.11a_Channel 60

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7418.4667	37.67	36.50	-37.81	36.36	54.00	17.64	Horizontal
2	7415.4	45.11	36.50	-37.82	43.79	74.00	30.21	Horizontal
3	9358.9	39.09	37.71	-34.00	42.80	74.00	31.20	Horizontal
4	10731.2333	35.57	38.27	-30.32	43.52	74.00	30.48	Horizontal

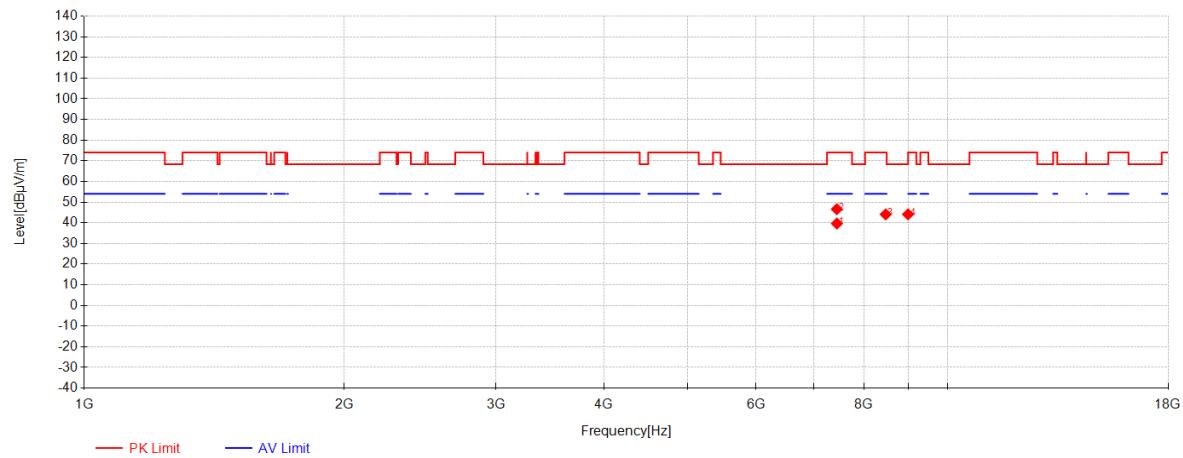
802.11a_Channel 60

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7412.7167	44.12	36.50	-37.83	42.79	54.00	11.21	Vertical
2	7413.1	50.99	36.50	-37.83	49.66	74.00	24.34	Vertical
3	10263.1833	39.33	38.03	-31.81	45.55	68.30	22.75	Vertical
4	12802.7667	38.49	39.36	-29.90	47.96	68.30	20.34	Vertical

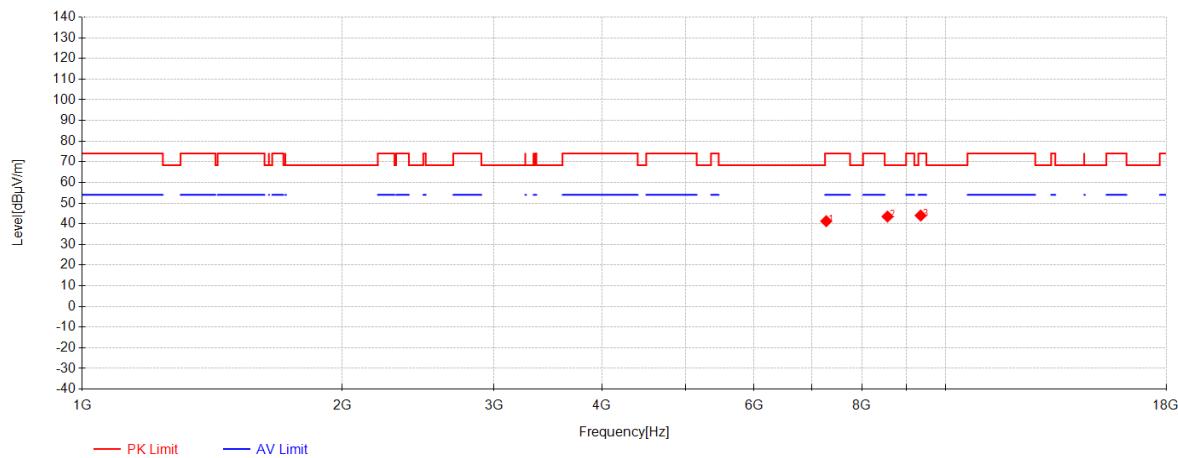
802.11a_Channel 64

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7447.2167	39.38	36.54	-37.74	38.17	54.00	15.83	Horizontal
2	7455.2667	46.04	36.55	-37.72	44.86	74.00	29.14	Horizontal
3	8528.2167	41.59	37.36	-35.65	43.31	68.30	24.99	Horizontal
4	9995.6167	40.29	37.90	-32.32	45.87	68.30	22.43	Horizontal

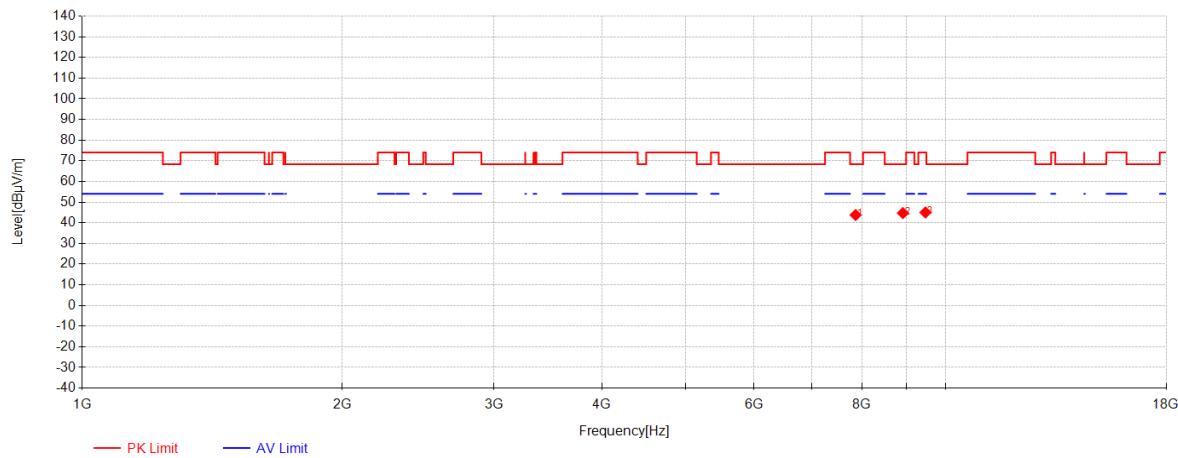
802.11a_Channel 64



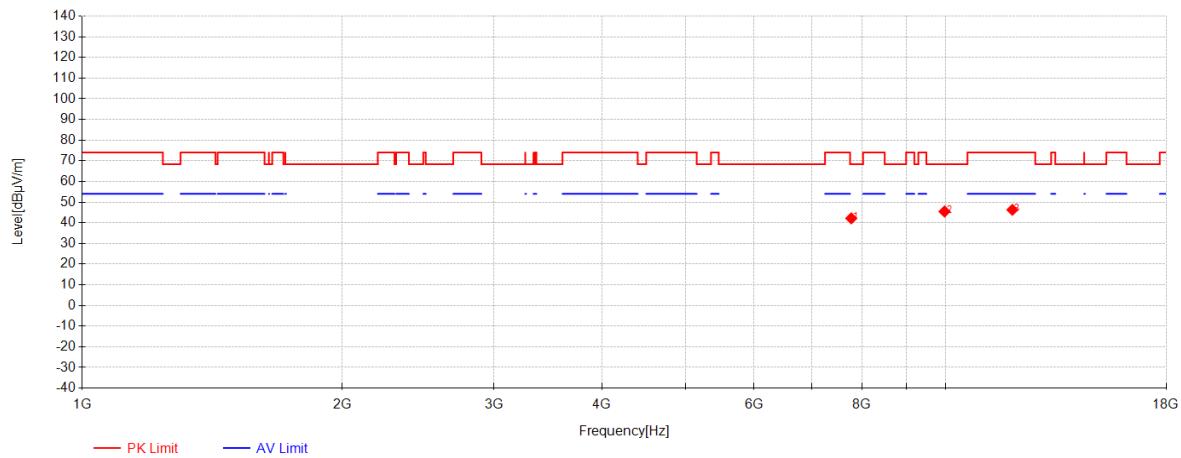
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7444.9167	40.86	36.53	-37.75	39.65	54.00	14.35	Vertical
2	7442.2333	47.80	36.53	-37.75	46.58	74.00	27.42	Vertical
3	8477.2333	42.51	37.34	-35.78	44.07	74.00	29.93	Vertical
4	8998.1833	40.89	37.60	-34.38	44.11	68.30	24.19	Vertical

802.11a_Channel 100

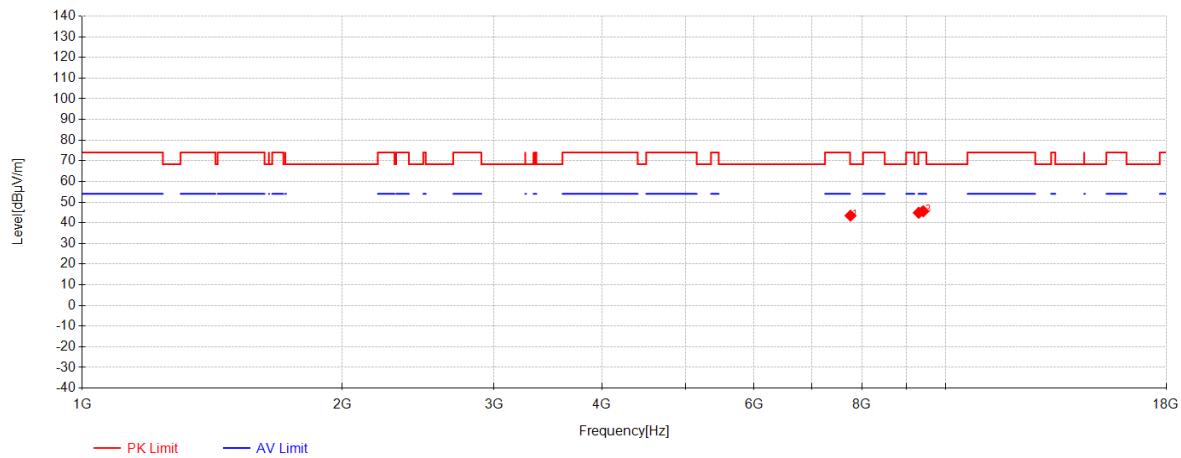
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7273.95	42.58	36.33	-37.63	41.28	74.00	32.72	Horizontal
2	8565.0167	41.59	37.38	-35.47	43.50	68.30	24.80	Horizontal
3	9356.9833	40.30	37.71	-34.00	44.01	74.00	29.99	Horizontal

802.11a_Channel 100

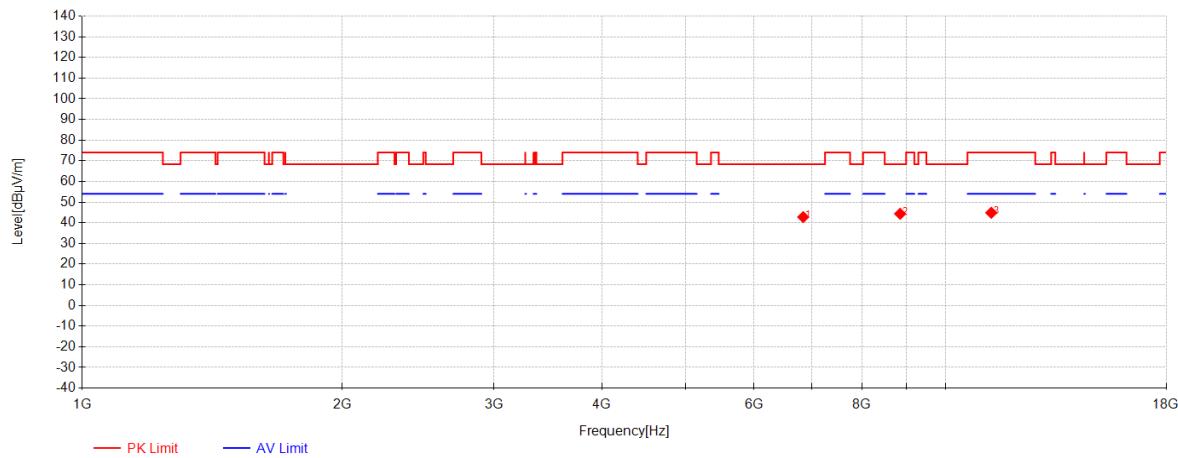
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7865.4333	43.68	36.97	-36.89	43.76	68.30	24.54	Vertical
2	8925.35	42.18	37.56	-35.05	44.69	68.30	23.61	Vertical
3	9476.2	40.93	37.74	-33.67	45.00	74.00	29.00	Vertical

802.11a_Channel 116

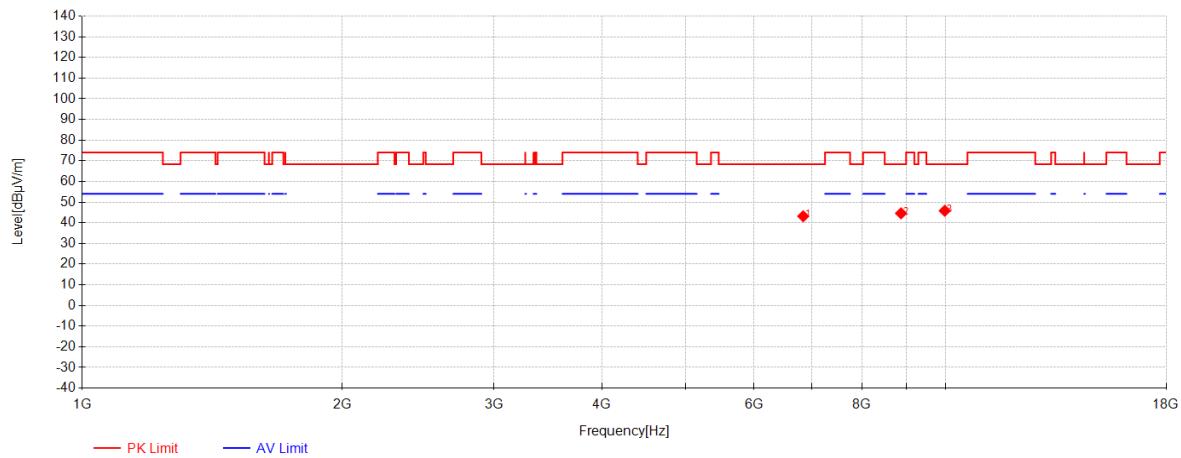
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7776.8833	42.15	36.88	-36.87	42.16	68.30	26.14	Horizontal
2	9971.4667	39.97	37.89	-32.39	45.47	68.30	22.83	Horizontal
3	11948.3167	36.98	38.40	-29.10	46.28	74.00	27.72	Horizontal

802.11a_Channel 116

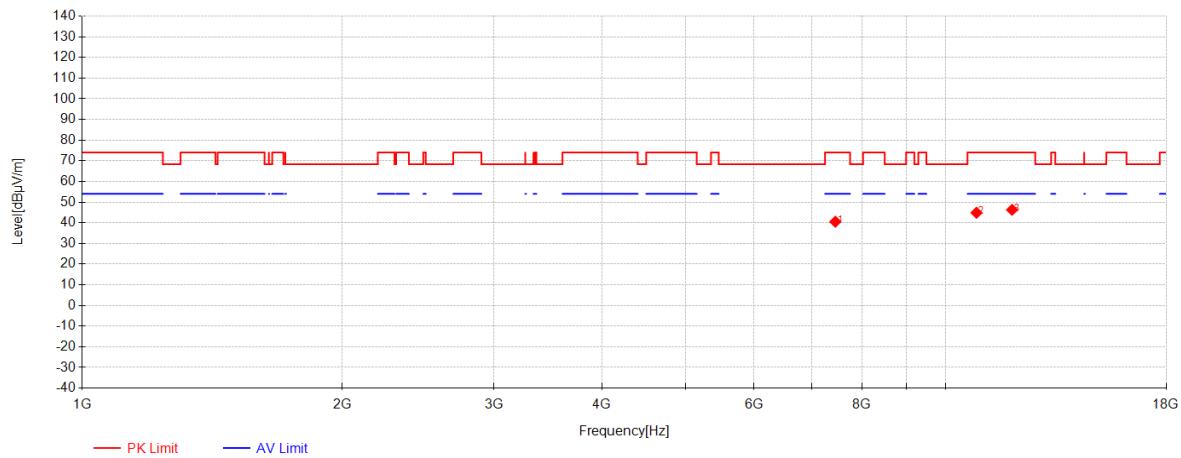
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7759.6333	43.55	36.86	-36.93	43.48	68.30	24.82	Vertical
2	9308.6833	41.11	37.69	-33.95	44.85	74.00	29.15	Vertical
3	9421.7667	41.81	37.73	-33.94	45.60	74.00	28.40	Vertical

802.11a_Channel 140

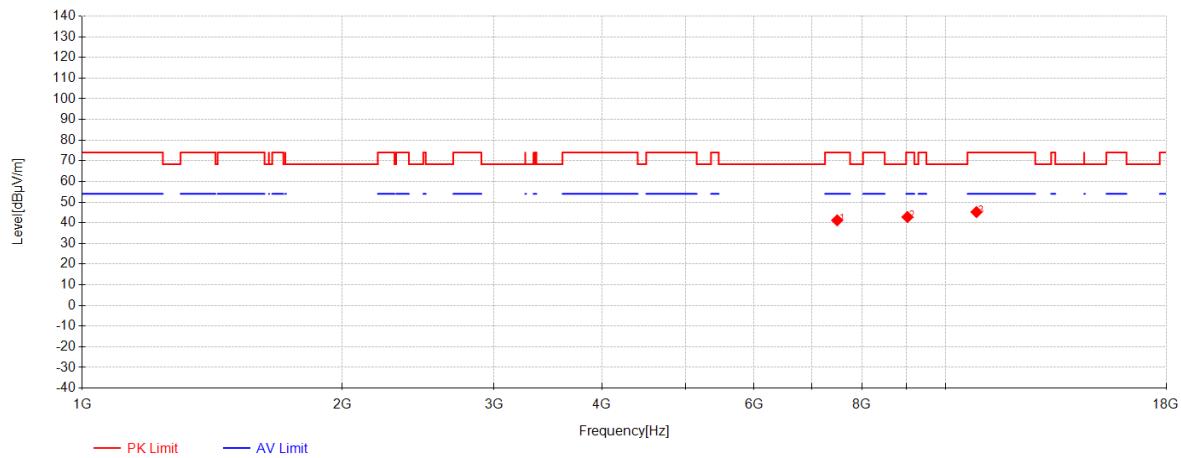
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	6839.6333	45.19	35.94	-38.34	42.78	68.30	25.52	Horizontal
2	8857.8833	41.90	37.53	-35.08	44.35	68.30	23.95	Horizontal
3	11295.5	36.94	38.40	-30.48	44.86	74.00	29.14	Horizontal

802.11a_Channel 140

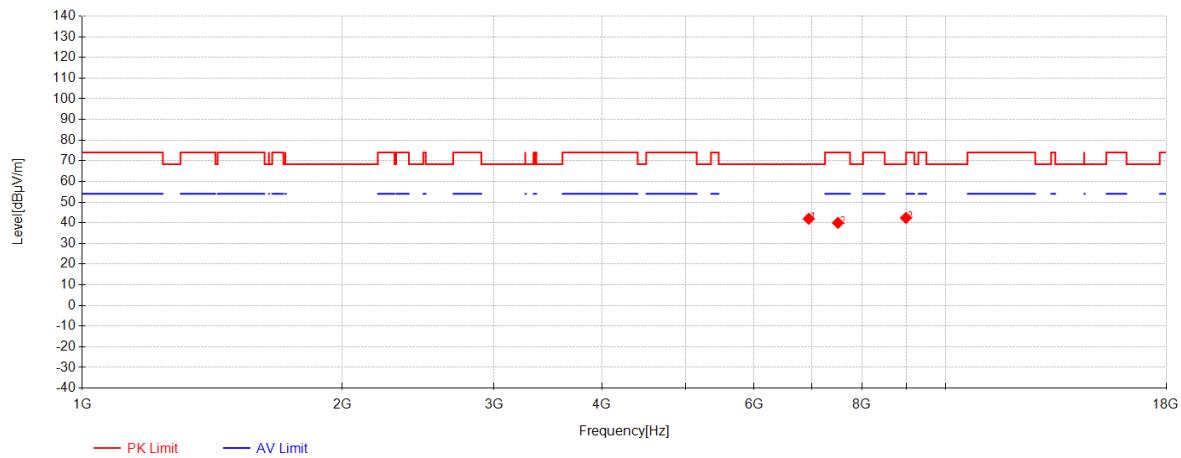
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	6840.4	45.57	35.94	-38.34	43.16	68.30	25.14	Vertical
2	8879.35	42.23	37.54	-35.19	44.58	68.30	23.72	Vertical
3	9976.45	40.29	37.89	-32.37	45.81	68.30	22.49	Vertical

802.11a_Channel 149

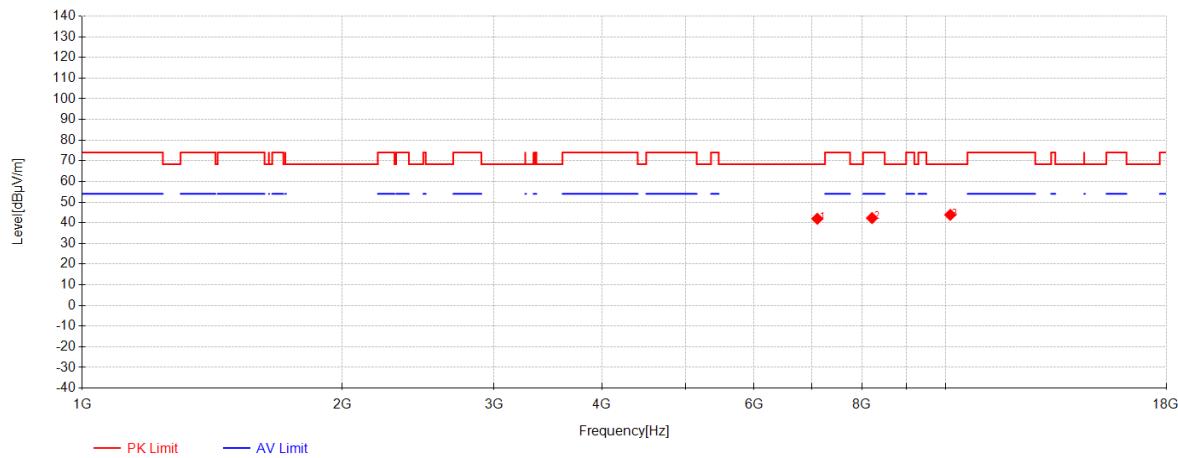
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7451.8167	41.71	36.54	-37.73	40.52	74.00	33.48	Horizontal
2	10858.5	36.90	38.33	-30.37	44.86	74.00	29.14	Horizontal
3	11938.35	36.95	38.40	-29.06	46.29	74.00	27.71	Horizontal

802.11a_Channel 149

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7489.3833	42.26	36.59	-37.64	41.21	74.00	32.79	Vertical
2	9033.0667	39.69	37.61	-34.52	42.78	74.00	31.22	Vertical
3	10857.35	37.23	38.33	-30.37	45.19	74.00	28.81	Vertical

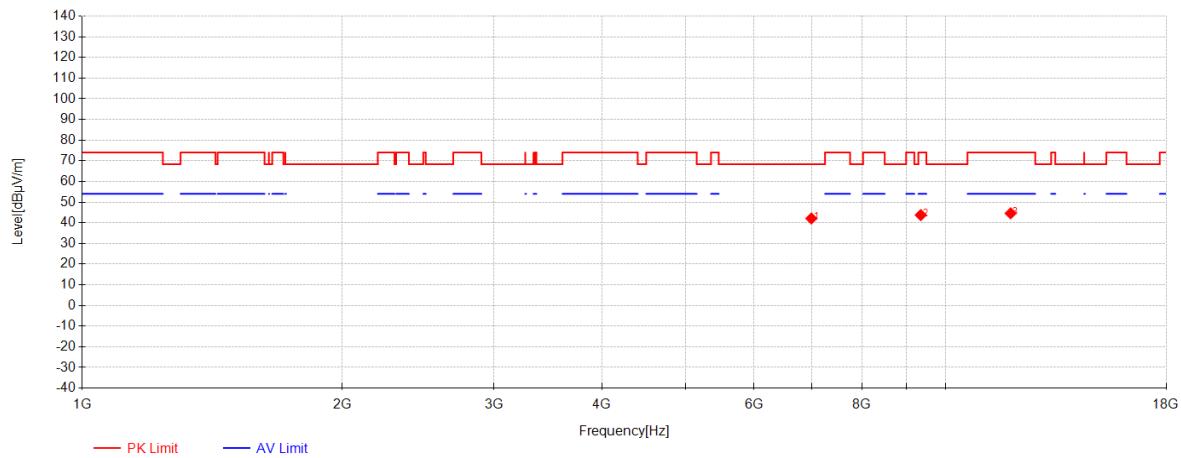
802.11a_Channel 157

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	6942.3667	44.05	35.98	-38.08	41.95	68.30	26.35	Horizontal
2	7503.5667	40.97	36.60	-37.61	39.96	74.00	34.04	Horizontal
3	8995.8833	39.16	37.60	-34.40	42.36	68.30	25.94	Horizontal

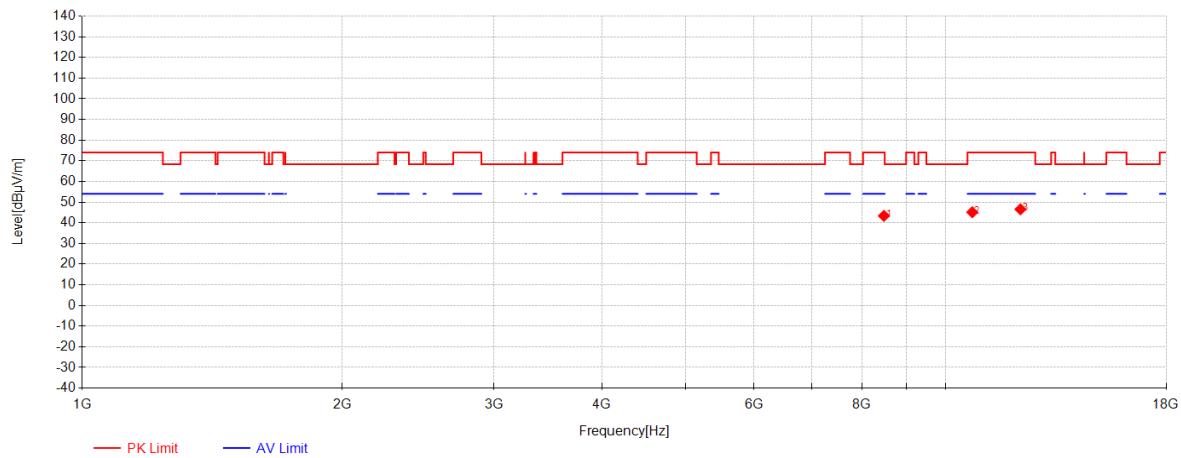
802.11a_Channel 157

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	7102.6	44.11	36.12	-38.27	41.96	68.30	26.34	Vertical
2	8217.7167	41.26	37.21	-36.18	42.29	74.00	31.71	Vertical
3	10124.8	37.97	37.96	-32.08	43.85	68.30	24.45	Vertical

802.11a_Channel 165



Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	6990.2833	43.87	36.00	-37.76	42.10	68.30	26.20	Horizontal
2	9358.5167	40.02	37.71	-34.00	43.73	74.00	30.27	Horizontal
3	11893.5	35.17	38.40	-28.98	44.59	74.00	29.41	Horizontal

802.11a_Channel 165

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	8483.3667	41.81	37.34	-35.78	43.37	74.00	30.63	Vertical
2	10736.6	37.16	38.27	-30.32	45.11	74.00	28.89	Vertical
3	12208.9833	37.40	38.65	-29.53	46.52	74.00	27.48	Vertical

7.5 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.10.5

Measurement Distance: 3M

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

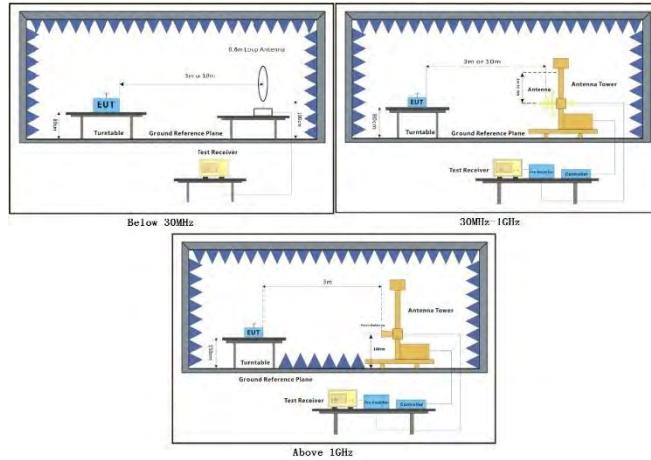
Humidity: 50.6 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



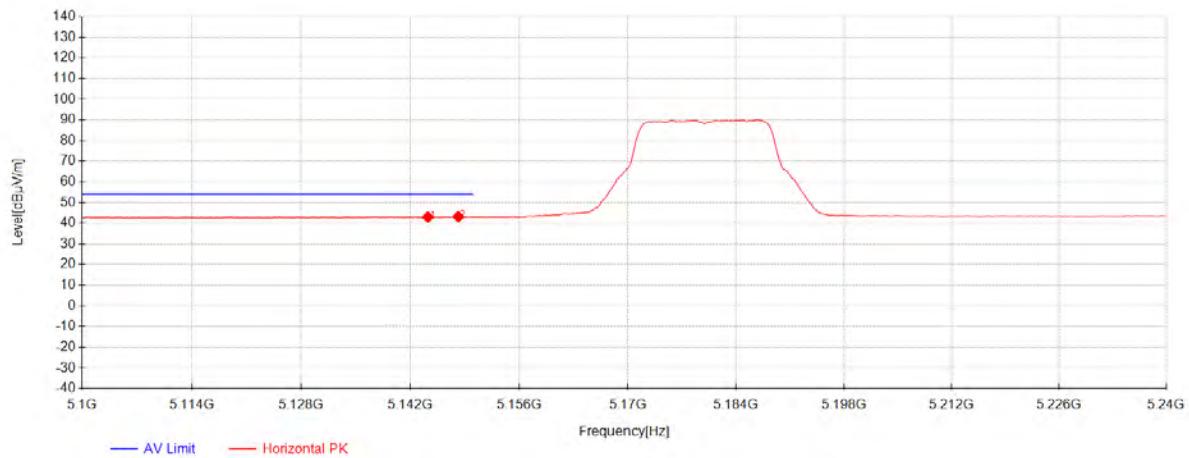
7.5.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

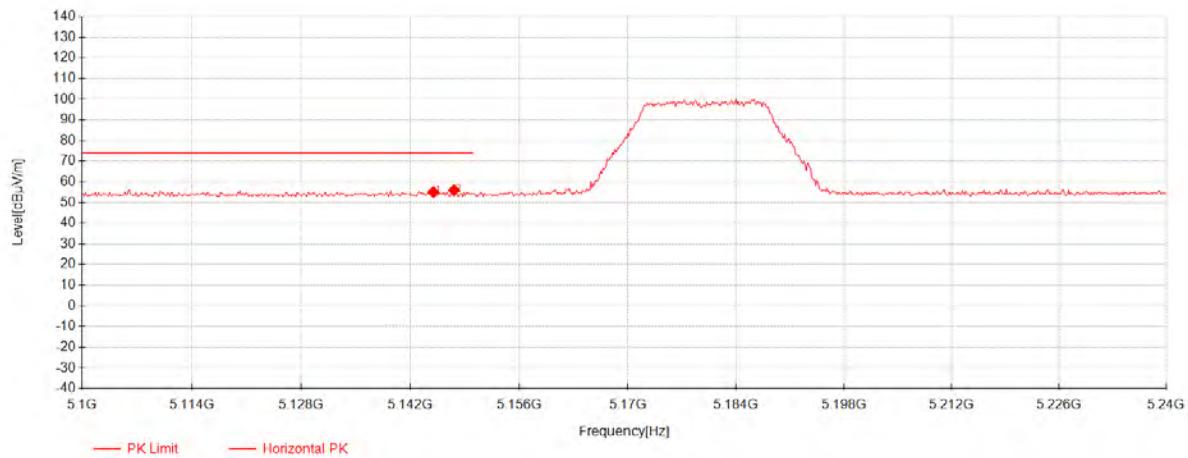
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

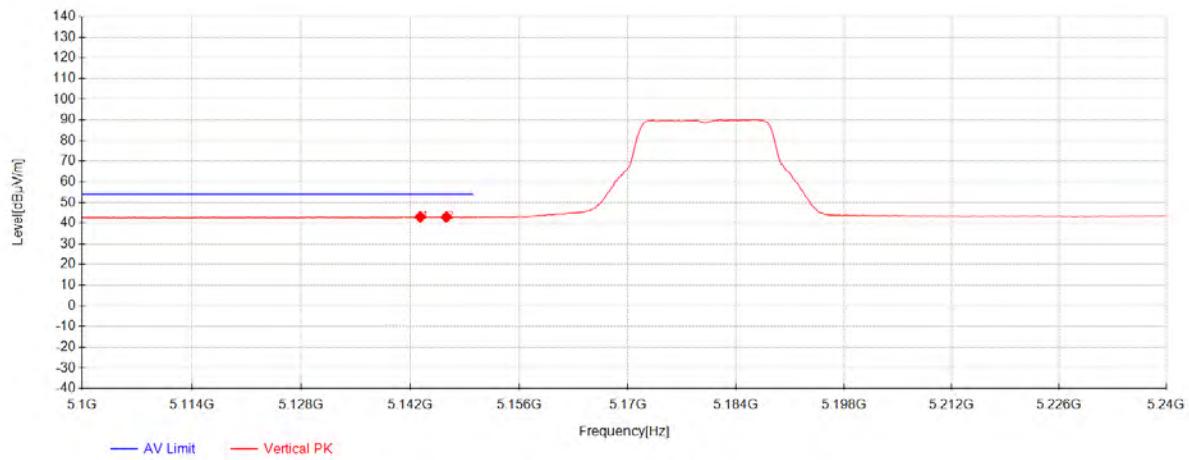
Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

802.11a_Channel 36

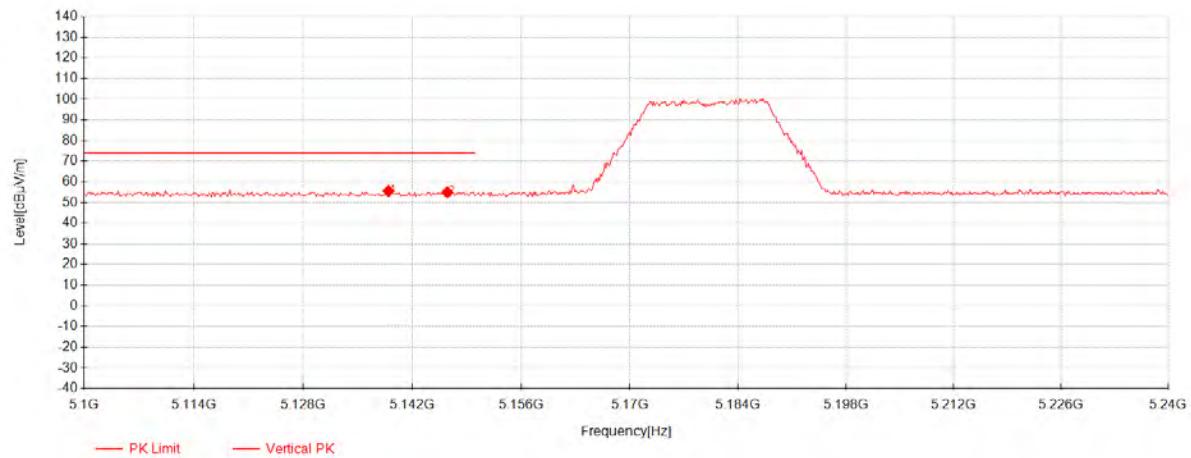
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5144.24	25.93	33.17	-16.07	43.03	54.00	10.97	Horizontal
2	5148.16	26.08	33.17	-16.07	43.18	54.00	10.82	Horizontal

802.11a_Channel 36

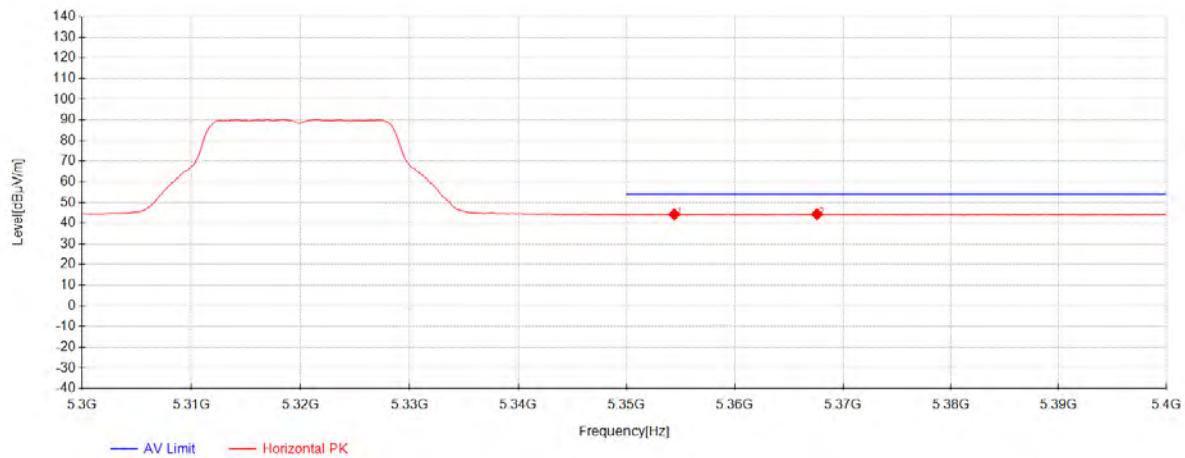
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5144.94	38.02	33.17	-16.07	55.12	74.00	18.88	Horizontal
2	5147.6	38.88	33.17	-16.07	55.98	74.00	18.02	Horizontal

802.11a_Channel 36

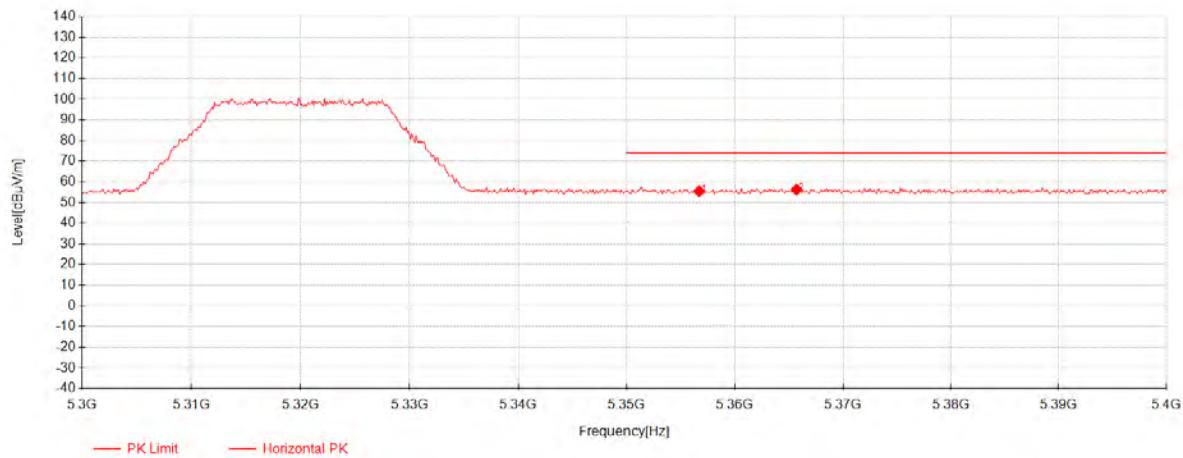
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5143.26	25.99	33.17	-16.08	43.08	54.00	10.92	Vertical
2	5146.62	25.91	33.17	-16.07	43.01	54.00	10.99	Vertical

802.11a_Channel 36

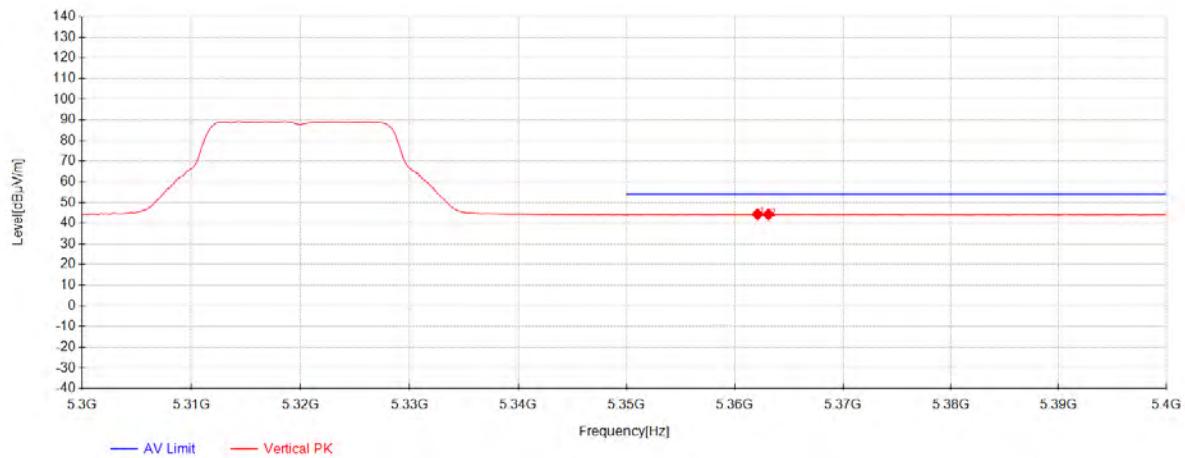
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5138.92	38.53	33.17	-16.08	55.62	74.00	18.38	Vertical
2	5146.48	37.92	33.17	-16.07	55.02	74.00	18.98	Vertical

802.11a_Channel 64

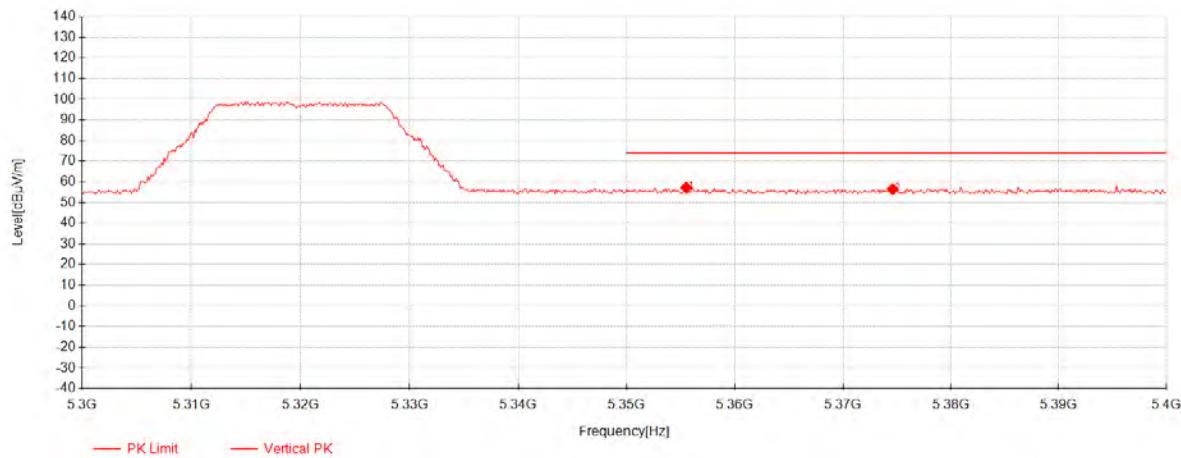
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5354.4	27.00	33.13	-15.80	44.33	54.00	9.67	Horizontal
2	5367.6	27.06	33.13	-15.80	44.38	54.00	9.62	Horizontal

802.11a_Channel 64

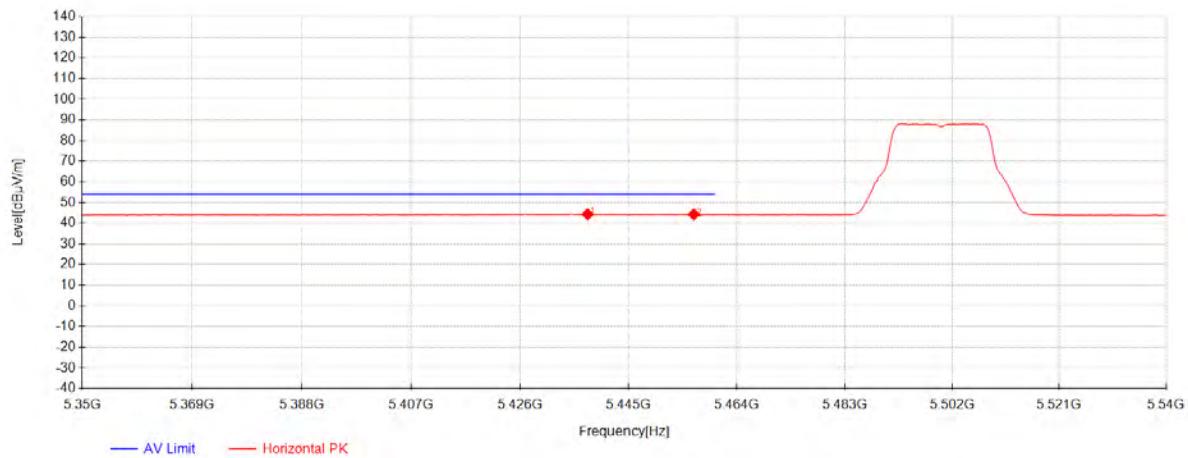
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5356.7	38.19	33.13	-15.80	55.52	74.00	18.48	Horizontal
2	5365.7	38.99	33.13	-15.80	56.31	74.00	17.69	Horizontal

802.11a_Channel 64

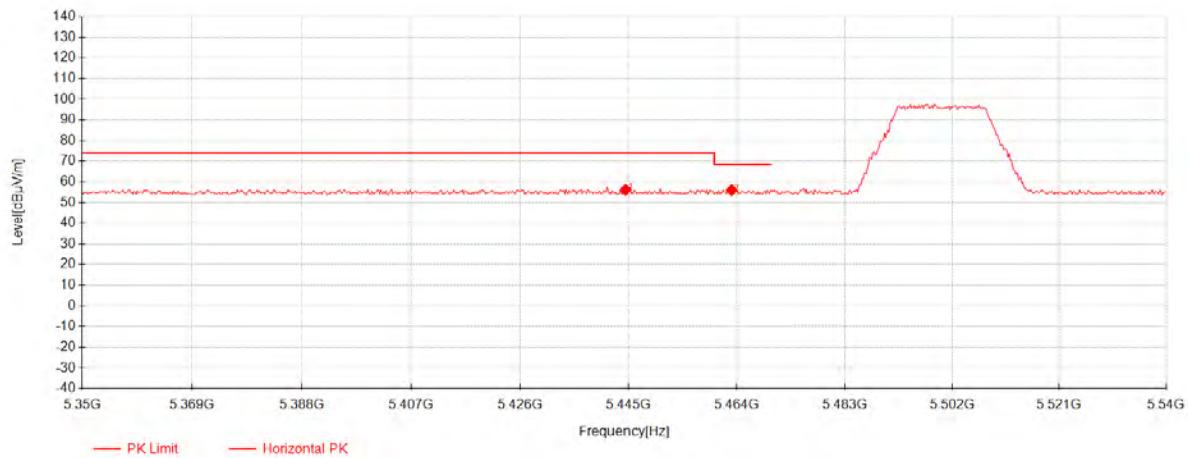
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5362.1	27.01	33.13	-15.80	44.34	54.00	9.66	Vertical
2	5363.1	26.97	33.13	-15.80	44.30	54.00	9.70	Vertical

802.11a_Channel 64

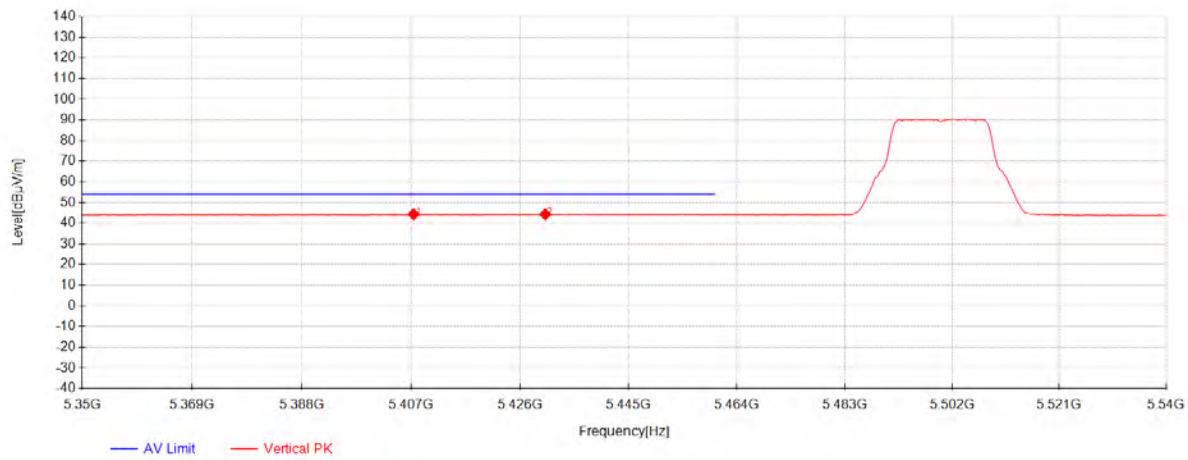
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5355.5	39.95	33.13	-15.80	57.28	74.00	16.72	Vertical
2	5374.6	39.17	33.13	-15.81	56.49	74.00	17.51	Vertical

802.11a_Channel 100

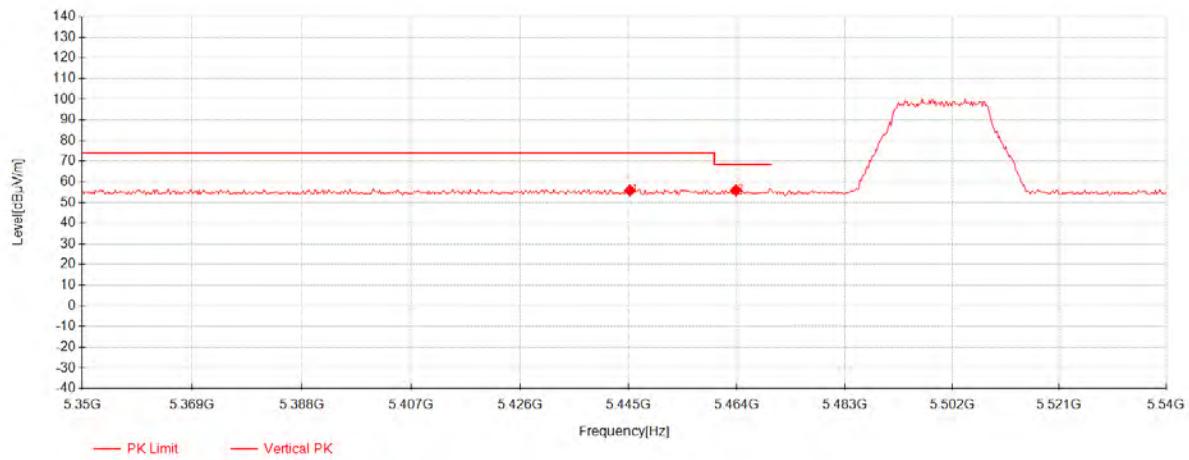
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5437.78	26.86	33.11	-15.60	44.37	54.00	9.63	Horizontal
2	5456.4	26.69	33.11	-15.50	44.30	54.00	9.70	Horizontal

802.11a_Channel 100

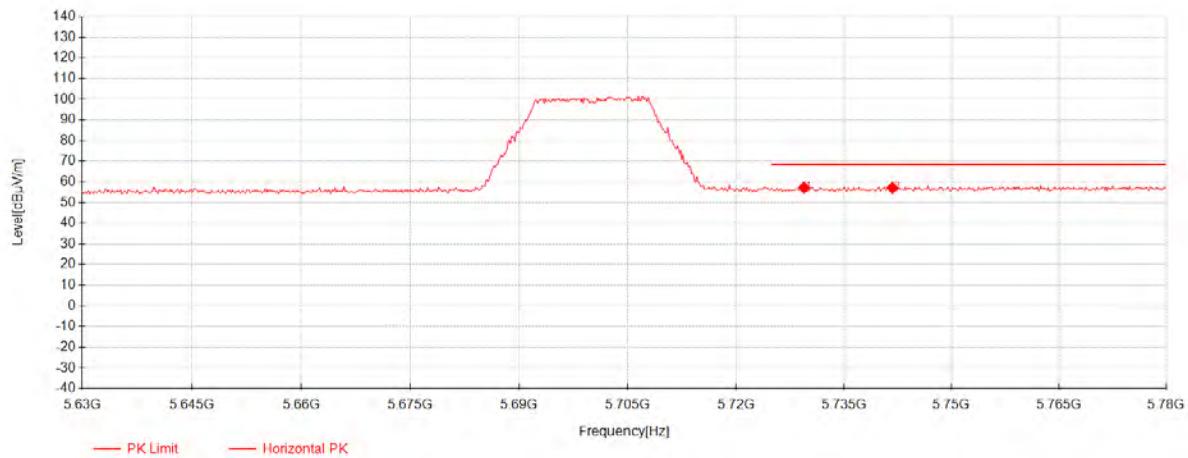
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5444.43	38.69	33.11	-15.57	56.23	74.00	17.77	Horizontal
2	5463.05	38.43	33.11	-15.46	56.08	68.30	12.22	Horizontal

802.11a_Channel 100

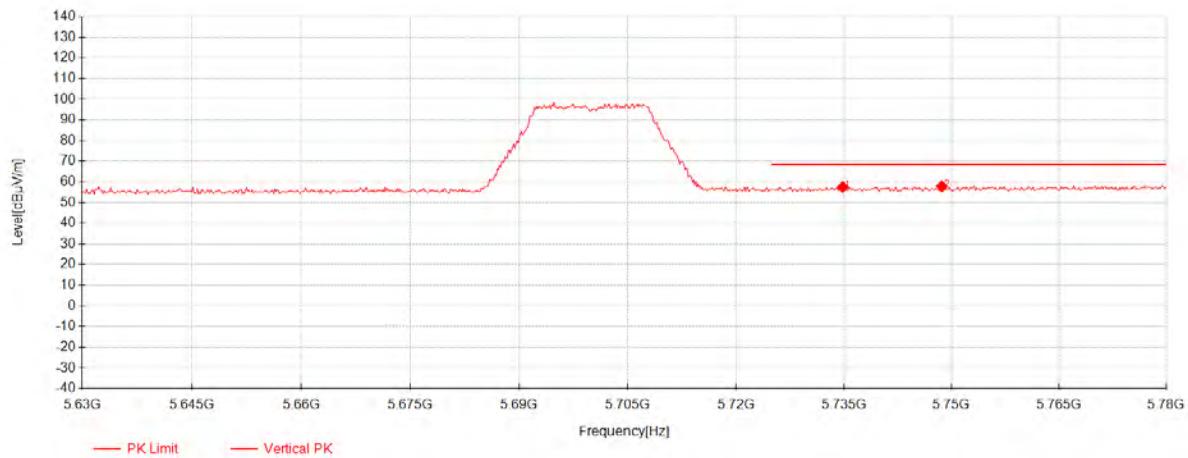
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5407.38	27.04	33.12	-15.78	44.38	54.00	9.62	Vertical
2	5430.37	26.87	33.11	-15.65	44.34	54.00	9.66	Vertical

802.11a_Channel 100

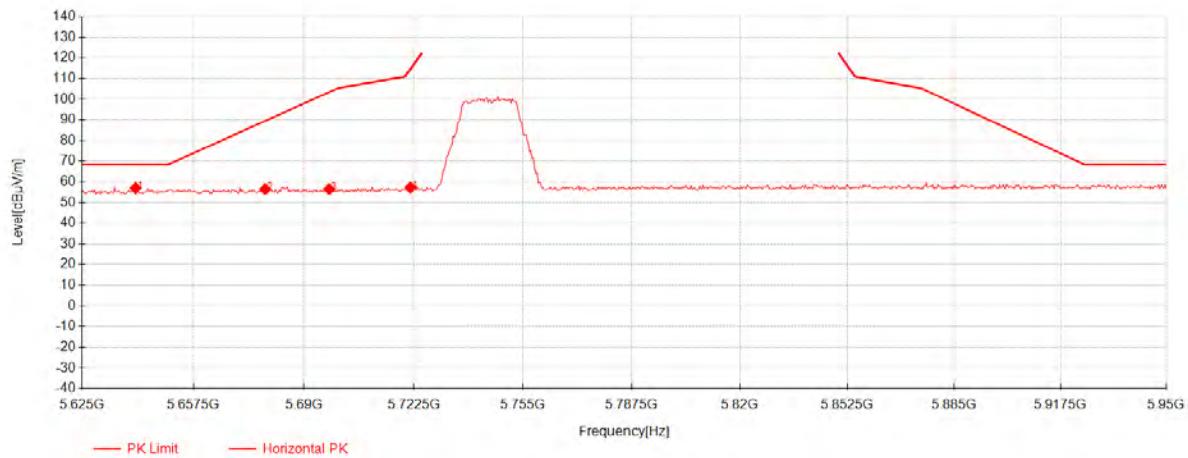
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5445.19	38.35	33.11	-15.56	55.90	74.00	18.10	Vertical
2	5463.81	38.31	33.11	-15.46	55.96	68.30	12.34	Vertical

802.11a_Channel 140

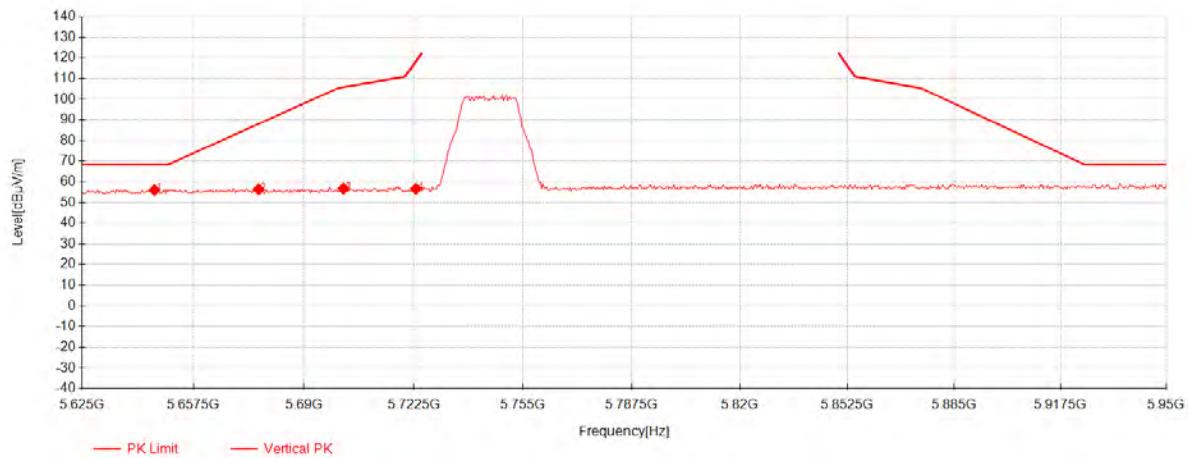
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5729.45	38.34	33.88	-14.93	57.29	68.30	11.01	Horizontal
2	5741.75	38.07	33.92	-14.85	57.15	68.30	11.15	Horizontal

802.11a_Channel 140

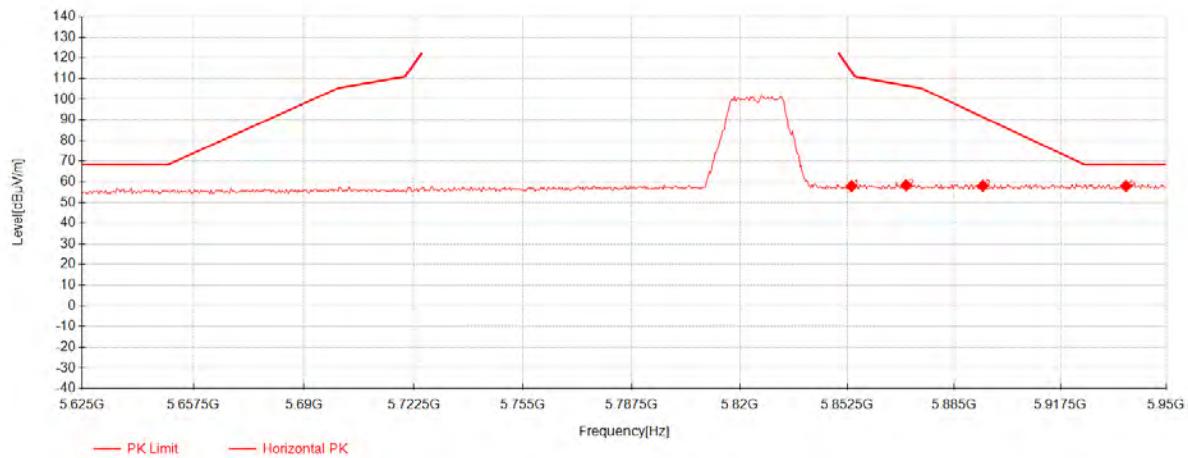
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5734.85	38.51	33.90	-14.89	57.52	68.30	10.78	Vertical
2	5748.65	38.68	33.95	-14.80	57.83	68.30	10.47	Vertical

802.11a_Channel 149

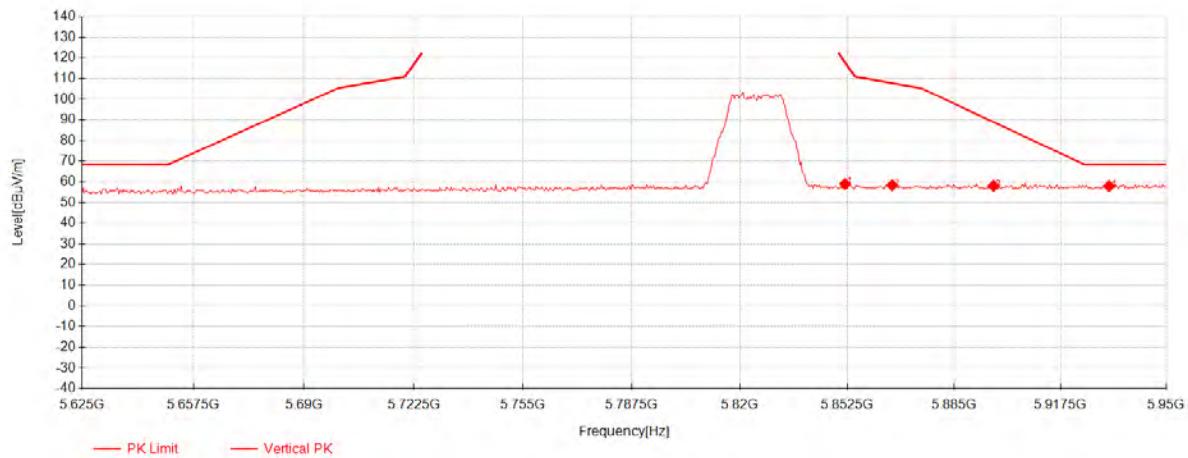
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5640.6	38.68	33.58	-15.24	57.02	68.30	11.28	Horizontal
2	5678.625	37.98	33.71	-15.17	56.52	89.52	33.00	Horizontal
3	5697.475	37.88	33.77	-15.13	56.52	103.44	46.92	Horizontal
4	5721.525	38.47	33.85	-14.98	57.34	114.38	57.04	Horizontal

802.11a_Channel 149

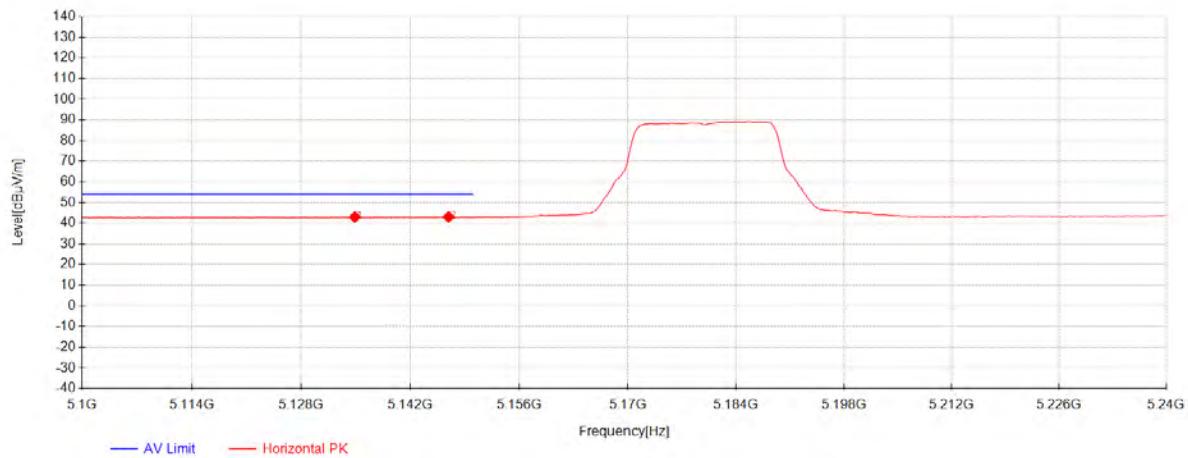
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5646.125	37.75	33.60	-15.23	56.12	68.30	12.18	Vertical
2	5676.675	37.90	33.70	-15.17	56.43	88.08	31.65	Vertical
3	5701.7	38.10	33.79	-15.12	56.77	105.78	49.01	Vertical
4	5723.15	37.75	33.86	-14.97	56.64	118.08	61.44	Vertical

802.11a_Channel 165

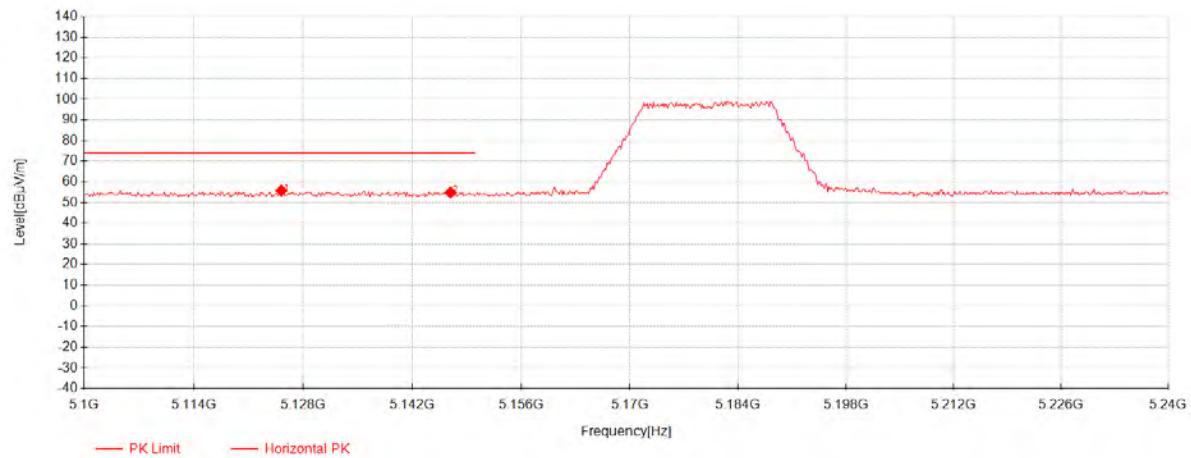
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5853.8	38.14	34.30	-14.49	57.95	113.64	55.69	Horizontal
2	5870.375	38.51	34.36	-14.51	58.36	106.59	48.23	Horizontal
3	5893.775	38.18	34.44	-14.53	58.09	91.37	33.28	Horizontal
4	5937.65	37.92	34.59	-14.54	57.97	68.30	10.33	Horizontal

802.11a_Channel 165

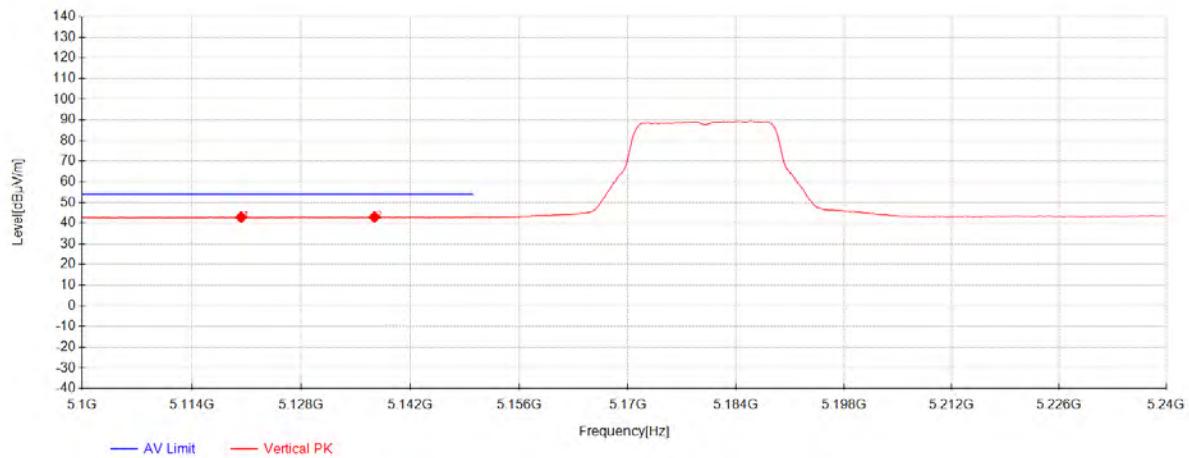
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5851.85	39.19	34.30	-14.49	58.99	118.08	59.09	Vertical
2	5866.15	38.53	34.34	-14.50	58.37	107.78	49.41	Vertical
3	5897.025	38.16	34.45	-14.53	58.08	88.96	30.88	Vertical
4	5932.45	37.95	34.57	-14.54	57.98	68.30	10.32	Vertical

802.11ac20_Channel 36

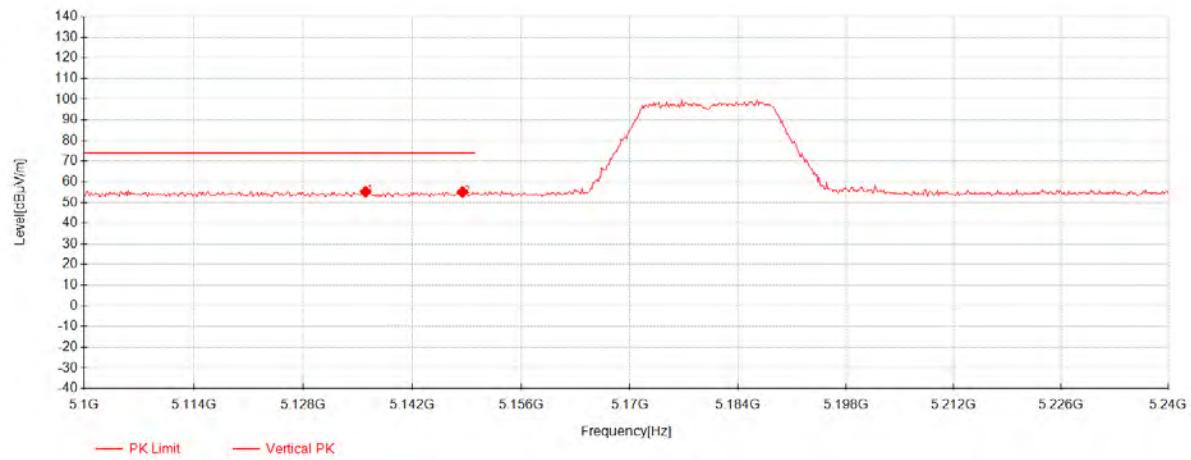
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5134.86	25.91	33.17	-16.09	42.99	54.00	11.01	Horizontal
2	5146.9	25.98	33.17	-16.07	43.08	54.00	10.92	Horizontal

802.11ac20_Channel 36

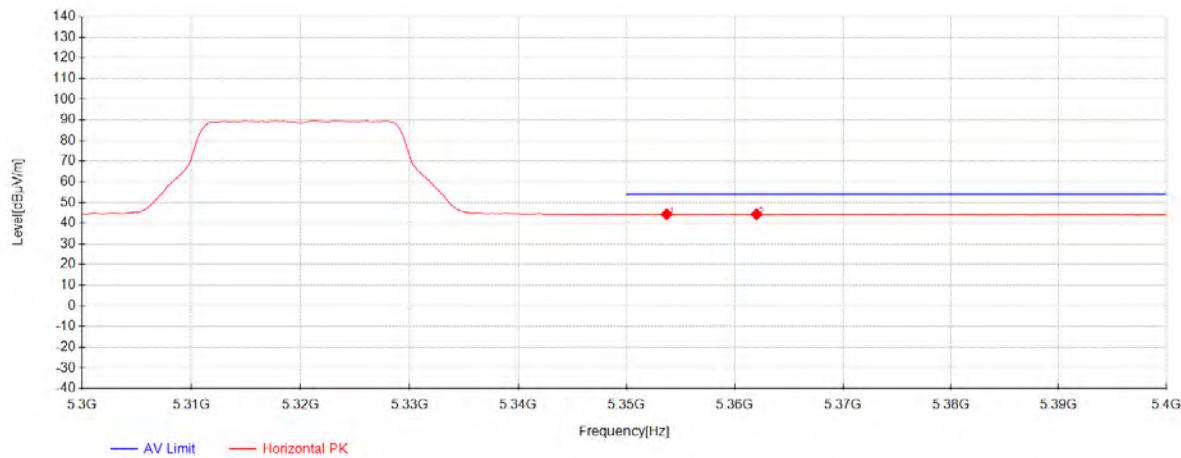
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5125.2	38.74	33.17	-16.11	55.81	74.00	18.19	Horizontal
2	5146.9	37.83	33.17	-16.07	54.93	74.00	19.07	Horizontal

802.11ac20_Channel 36

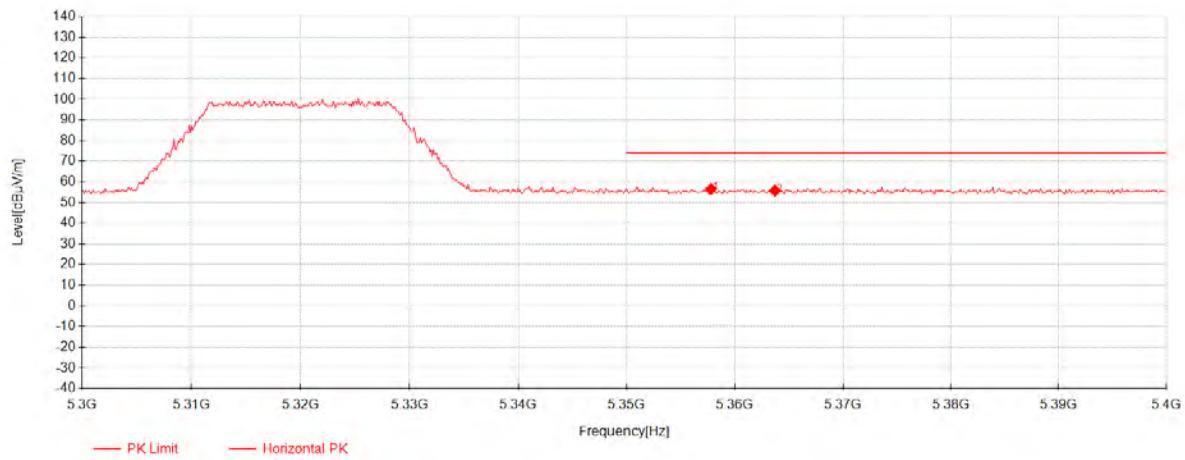
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5120.3	25.90	33.18	-16.12	42.96	54.00	11.04	Vertical
2	5137.38	25.91	33.17	-16.09	43.00	54.00	11.00	Vertical

802.11ac20_Channel 36

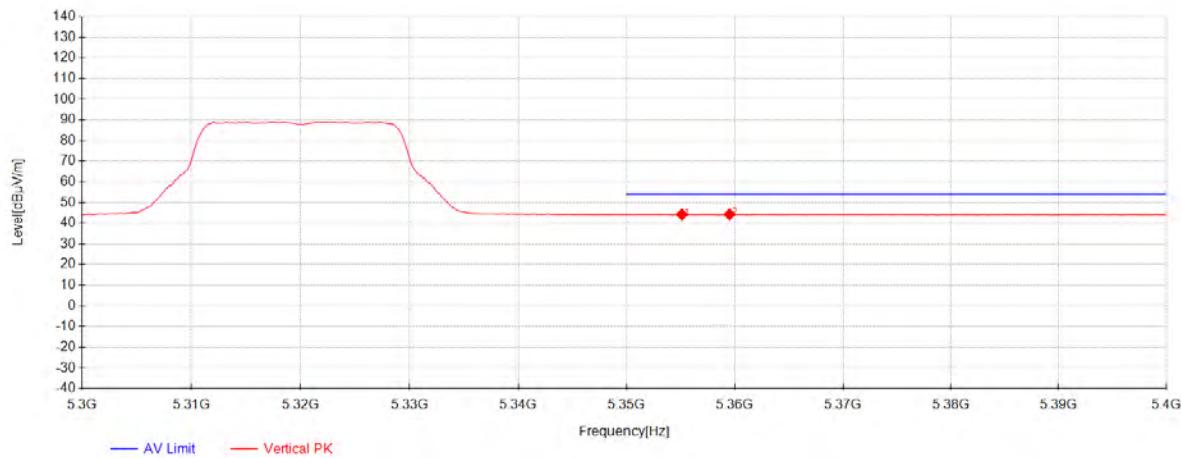
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5135.98	38.20	33.17	-16.09	55.28	74.00	18.72	Vertical
2	5148.44	38.05	33.17	-16.07	55.15	74.00	18.85	Vertical

802.11ac20_Channel 64

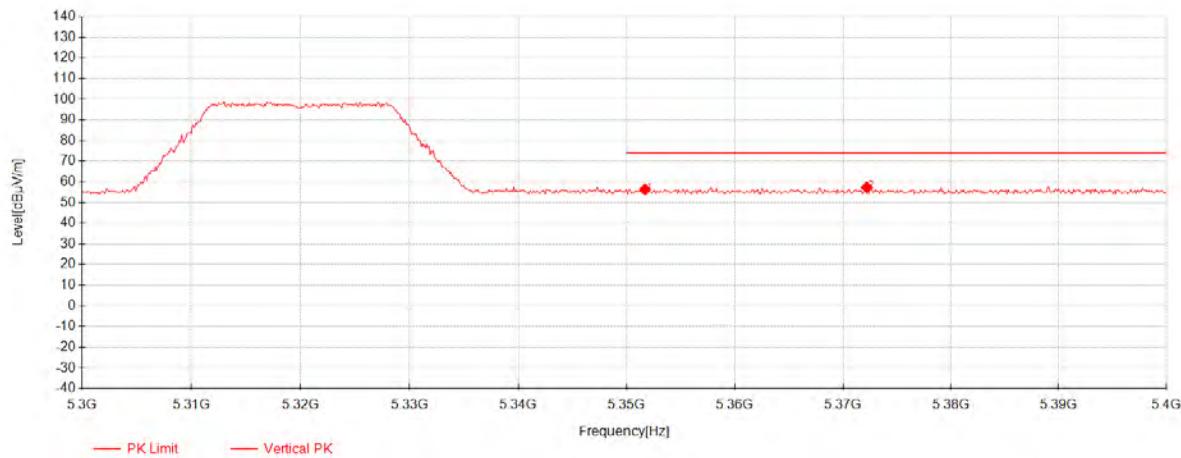
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5353.7	27.03	33.13	-15.80	44.36	54.00	9.64	Horizontal
2	5362	27.02	33.13	-15.80	44.35	54.00	9.65	Horizontal

802.11ac20_Channel 64

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5357.8	39.25	33.13	-15.80	56.58	74.00	17.42	Horizontal
2	5363.7	38.47	33.13	-15.80	55.80	74.00	18.20	Horizontal

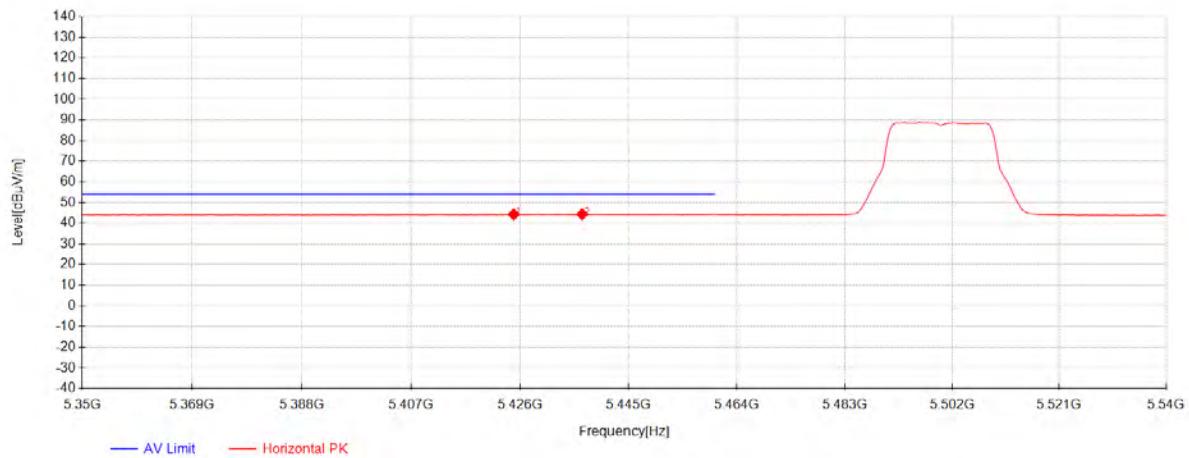
802.11ac20_Channel 64

Data List								
NO.	Frequency [MHz]	Reading [dB _u V]	AF [dB/m]	Factor [dB]	Level [dB _u V/m]	Limit [dB _u V/m]	Margin [dB]	Polarity
1	5355.1	26.93	33.13	-15.80	44.26	54.00	9.74	Vertical
2	5359.5	26.98	33.13	-15.80	44.31	54.00	9.69	Vertical

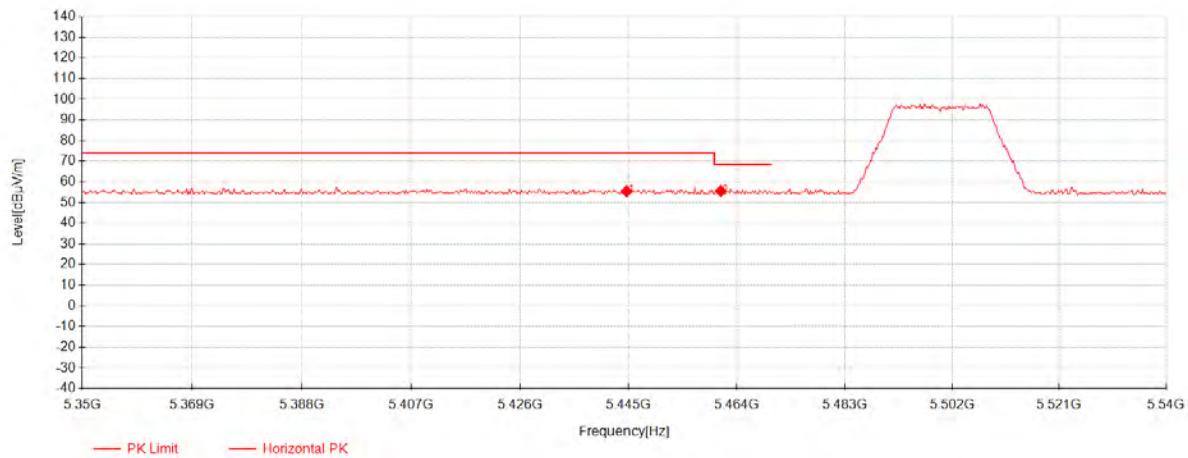
802.11ac20_Channel 64

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5351.7	39.06	33.13	-15.80	56.39	74.00	17.61	Vertical
2	5372.2	40.03	33.13	-15.81	57.35	74.00	16.65	Vertical

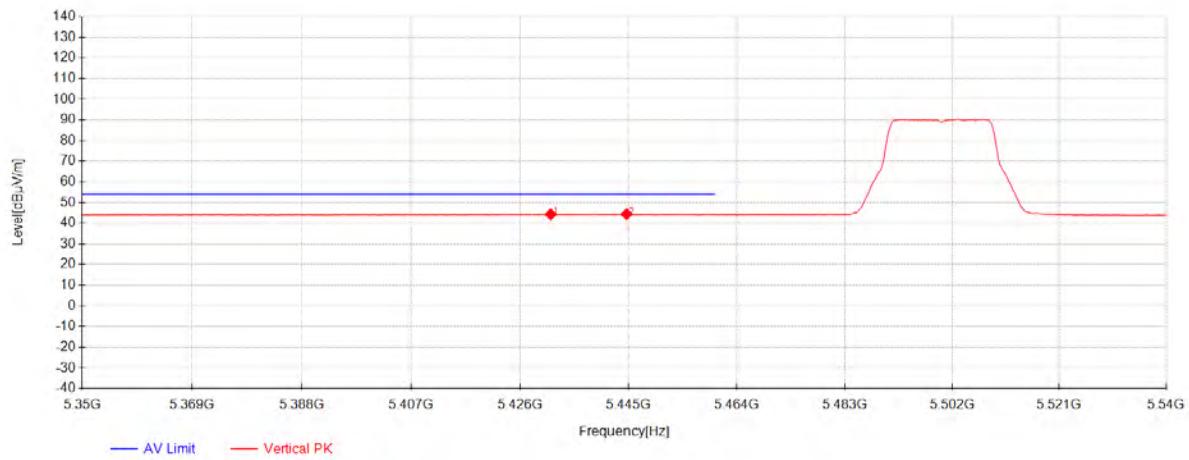
802.11ac20_Channel 100



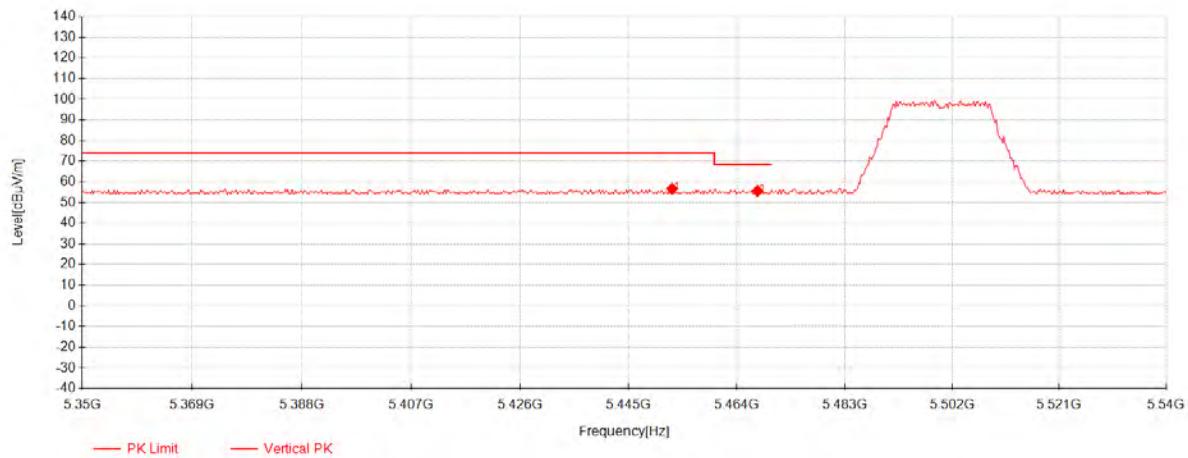
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5424.86	26.87	33.12	-15.68	44.31	54.00	9.69	Horizontal
2	5436.83	26.87	33.11	-15.61	44.37	54.00	9.63	Horizontal

802.11ac20_Channel 100

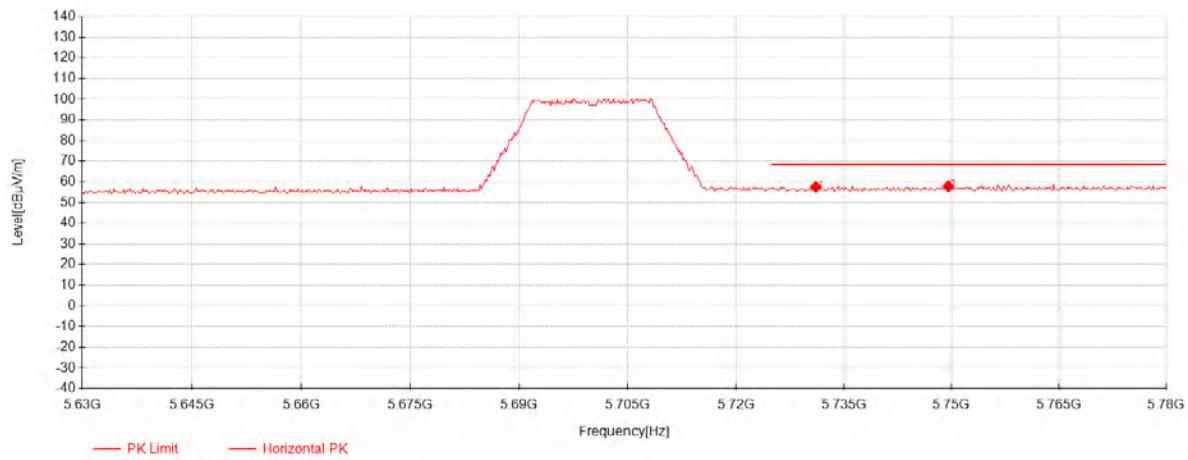
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5444.62	37.97	33.11	-15.57	55.52	74.00	18.48	Horizontal
2	5461.15	37.97	33.11	-15.47	55.61	68.30	12.69	Horizontal

802.11ac20_Channel 100

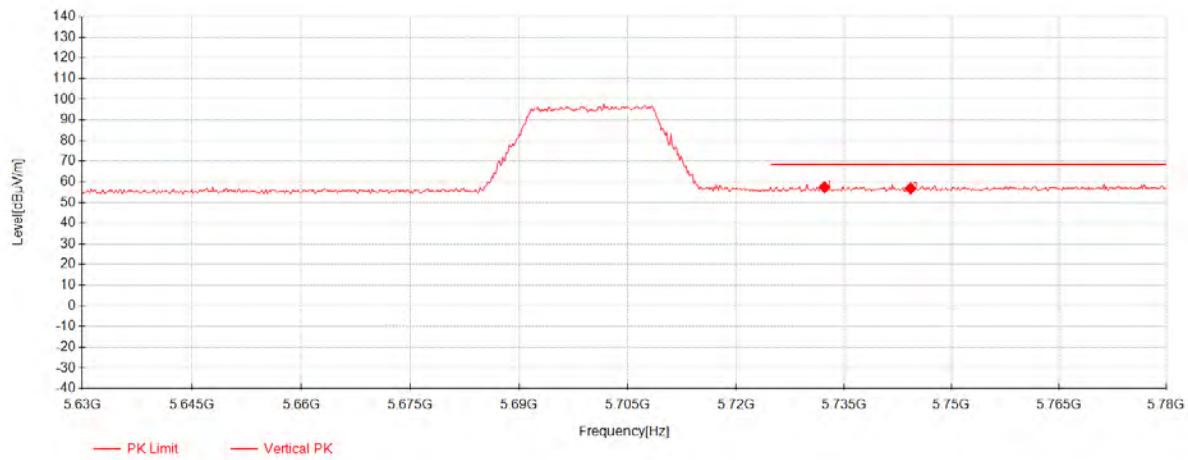
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5431.32	26.89	33.11	-15.64	44.36	54.00	9.64	Vertical
2	5444.62	26.88	33.11	-15.57	44.43	54.00	9.57	Vertical

802.11ac20_Channel 100

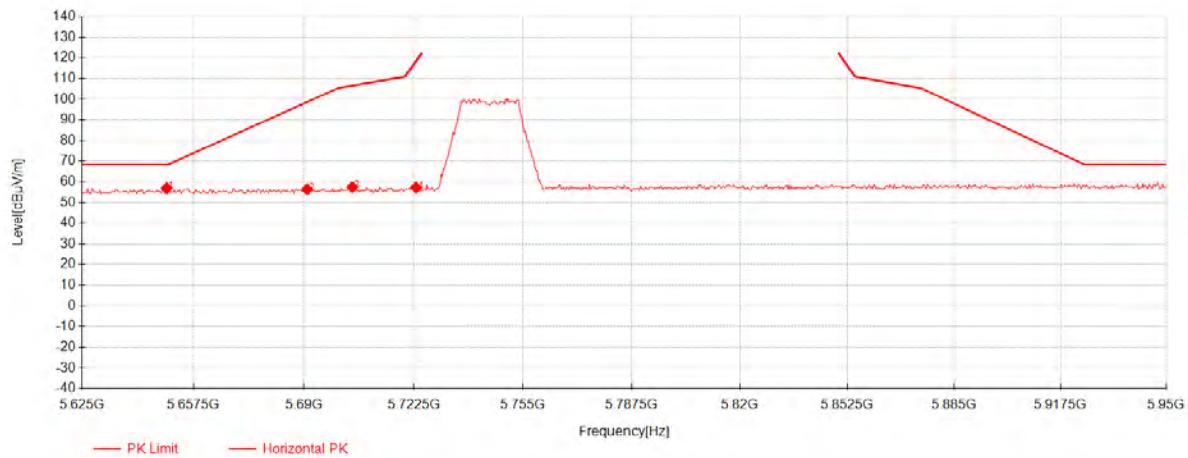
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5452.6	39.08	33.11	-15.52	56.67	74.00	17.33	Vertical
2	5467.61	37.98	33.11	-15.43	55.65	68.30	12.65	Vertical

802.11ac20_Channel 140

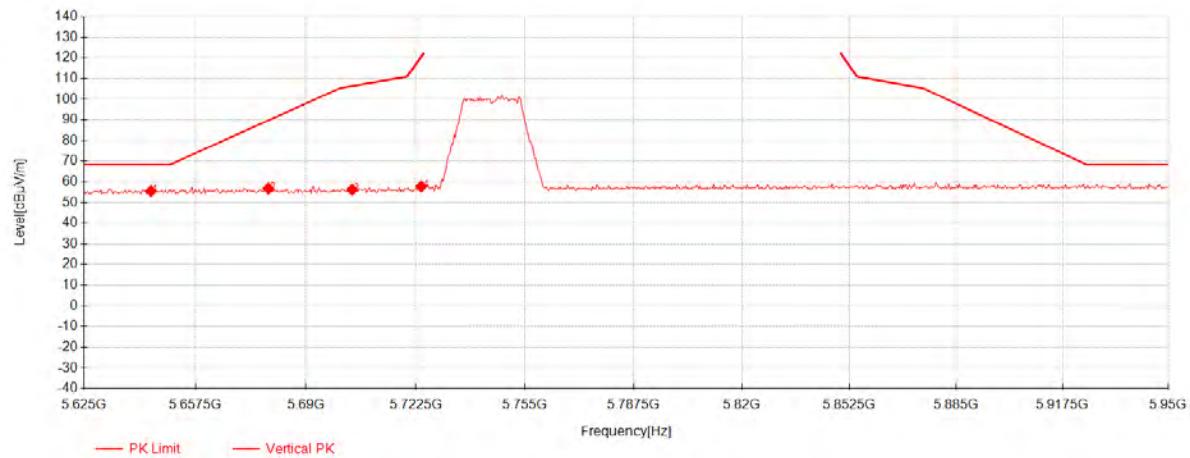
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5731.1	38.60	33.89	-14.92	57.57	68.30	10.73	Horizontal
2	5749.55	38.72	33.95	-14.79	57.88	68.30	10.42	Horizontal

802.11ac20_Channel 140

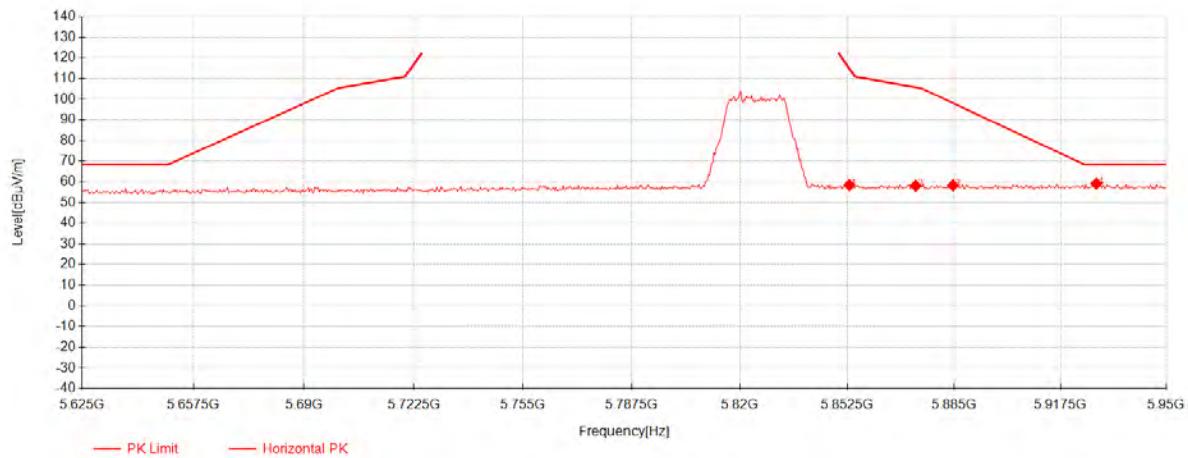
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5732.3	38.46	33.89	-14.91	57.44	68.30	10.86	Vertical
2	5744.3	37.73	33.93	-14.83	56.83	68.30	11.47	Vertical

802.11ac20_Channel 149

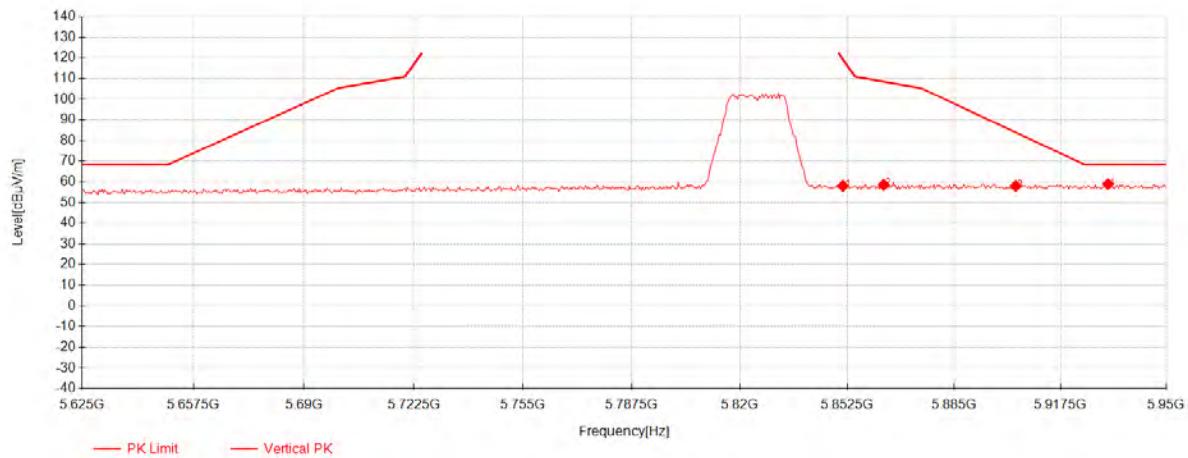
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5649.7	38.61	33.61	-15.22	57.00	68.30	11.30	Horizontal
2	5690.975	37.83	33.75	-15.15	56.43	98.65	42.22	Horizontal
3	5704.3	38.79	33.79	-15.10	57.48	106.51	49.03	Horizontal
4	5723.15	38.40	33.86	-14.97	57.29	118.08	60.79	Horizontal

802.11ac20_Channel 149

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5644.5	37.22	33.59	-15.23	55.58	68.30	12.72	Vertical
2	5678.95	38.29	33.71	-15.17	56.83	89.76	32.93	Vertical
3	5703.65	37.59	33.79	-15.11	56.28	106.32	50.04	Vertical
4	5724.125	38.88	33.86	-14.97	57.78	120.31	62.53	Vertical

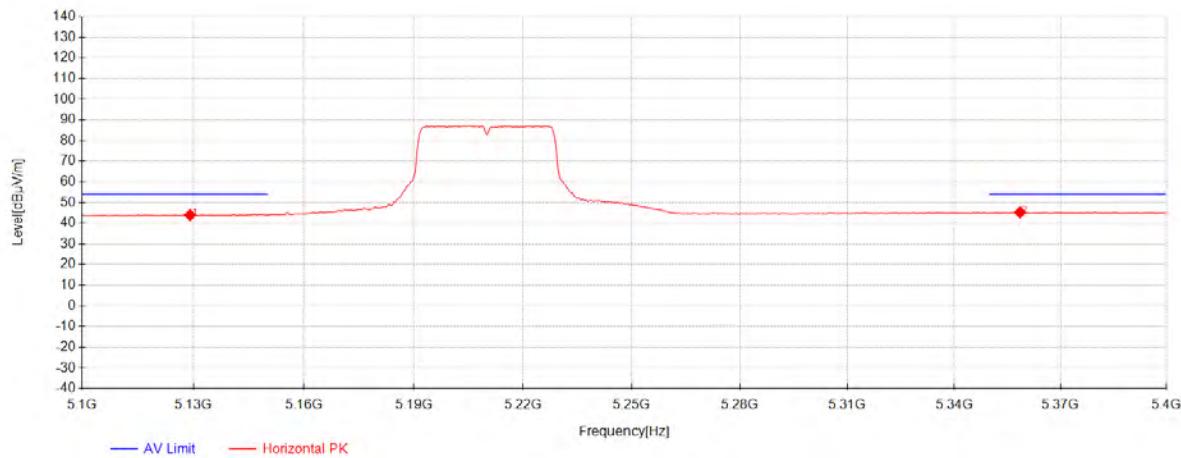
802.11ac20_Channel 165

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5853.15	38.64	34.30	-14.49	58.45	115.12	56.67	Horizontal
2	5873.3	38.26	34.37	-14.51	58.12	105.78	47.66	Horizontal
3	5884.675	38.48	34.41	-14.52	58.37	98.12	39.75	Horizontal
4	5928.55	39.12	34.56	-14.54	59.14	68.30	9.16	Horizontal

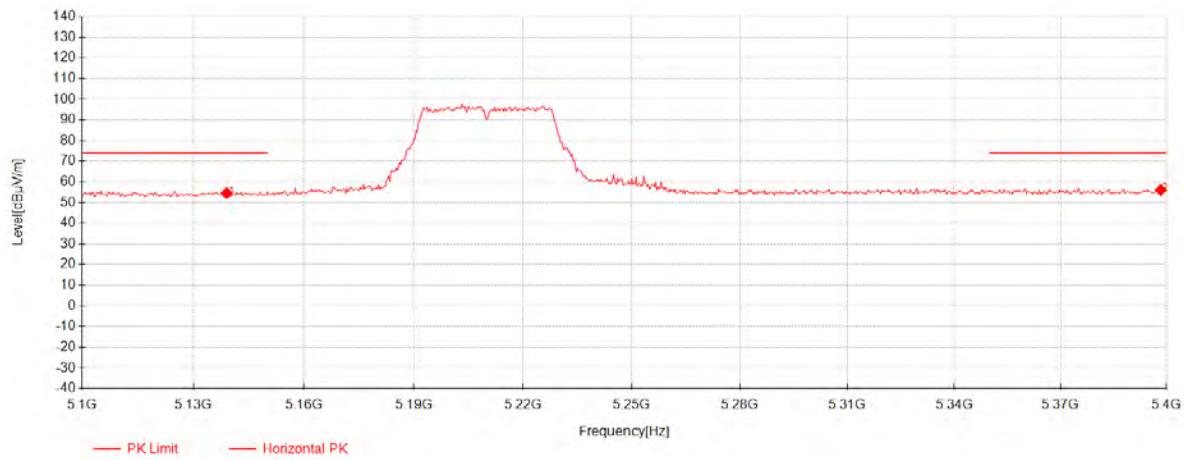
802.11ac20_Channel 165

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5851.2	38.24	34.29	-14.49	58.04	119.56	61.52	Vertical
2	5863.55	38.74	34.34	-14.50	58.58	108.50	49.92	Vertical
3	5903.85	38.10	34.47	-14.53	58.04	83.91	25.87	Vertical
4	5932.125	38.85	34.57	-14.54	58.88	68.30	9.42	Vertical

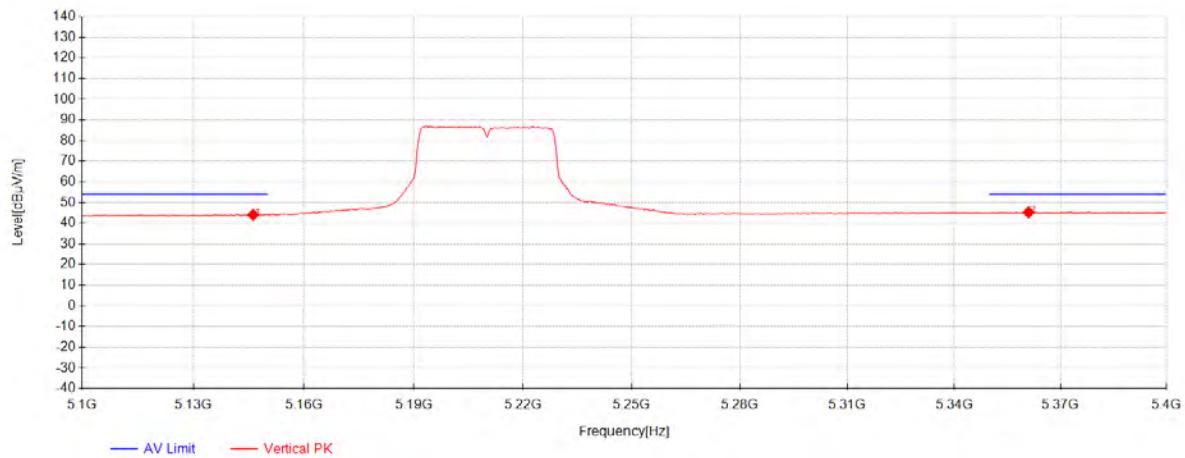
802.11ac40_Channel 38



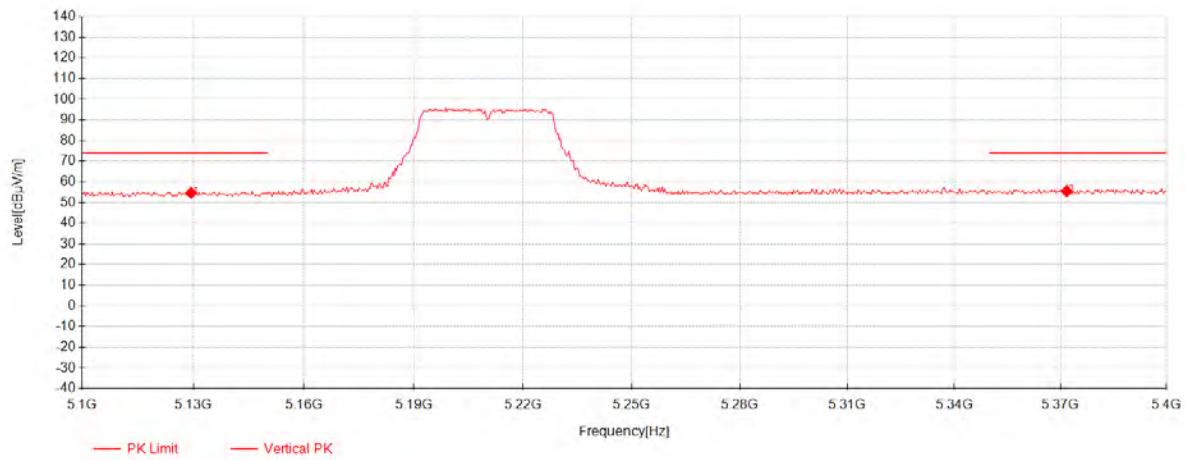
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5129.1	26.92	33.17	-16.10	43.99	54.00	10.01	Horizontal
2	5358.6	27.93	33.13	-15.80	45.26	54.00	8.74	Horizontal

802.11ac40_Channel 38

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5139	37.46	33.17	-16.08	54.55	74.00	19.45	Horizontal
2	5398.5	38.82	33.12	-15.82	56.12	74.00	17.88	Horizontal

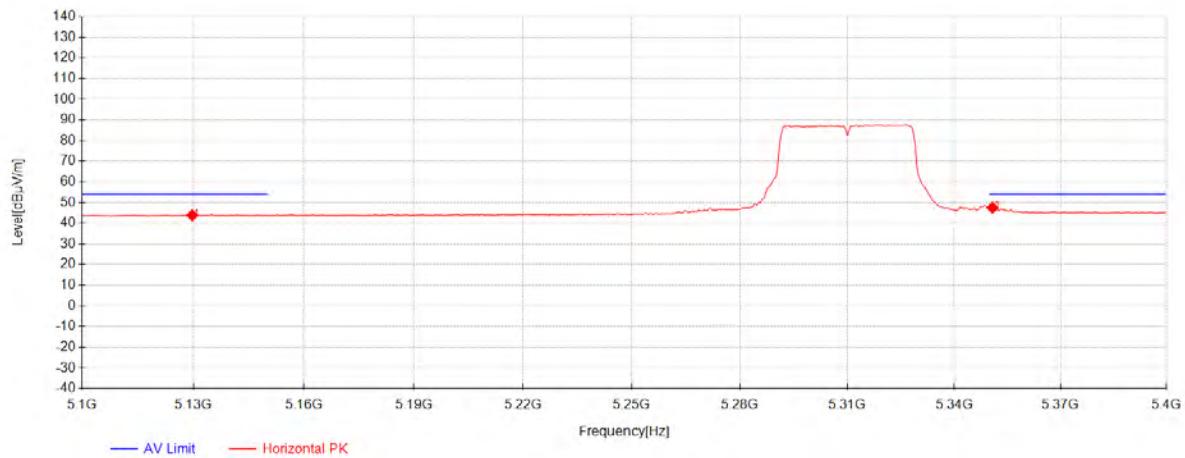
802.11ac40_Channel 38

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5146.2	26.98	33.17	-16.07	44.08	54.00	9.92	Vertical
2	5361	27.95	33.13	-15.80	45.28	54.00	8.72	Vertical

802.11ac40_Channel 38

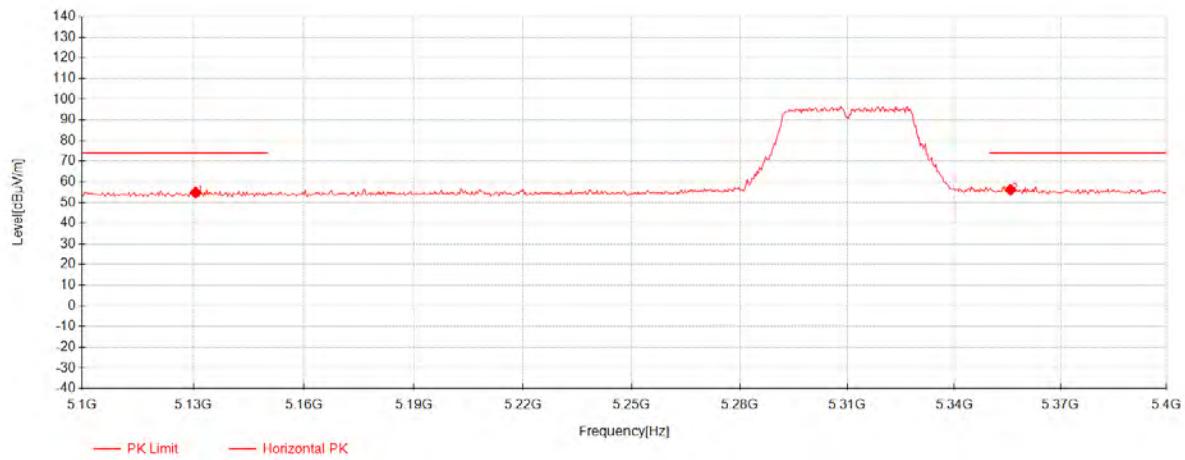
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5129.4	37.60	33.17	-16.10	54.67	74.00	19.33	Vertical
2	5371.8	38.22	33.13	-15.81	55.54	74.00	18.46	Vertical

802.11ac40_Channel 62

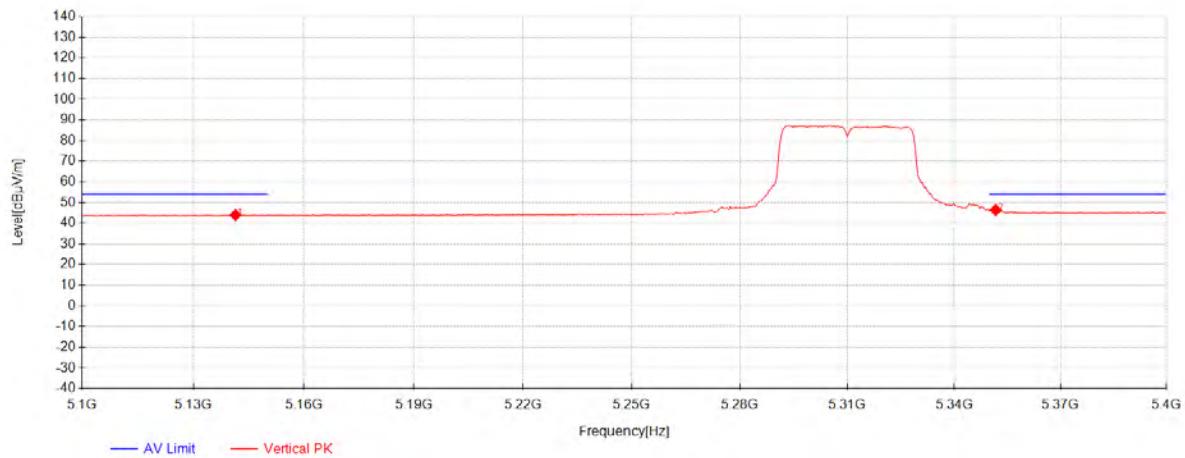


Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5129.7	26.81	33.17	-16.10	43.88	54.00	10.12	Horizontal
2	5350.8	30.15	33.13	-15.80	47.48	54.00	6.52	Horizontal

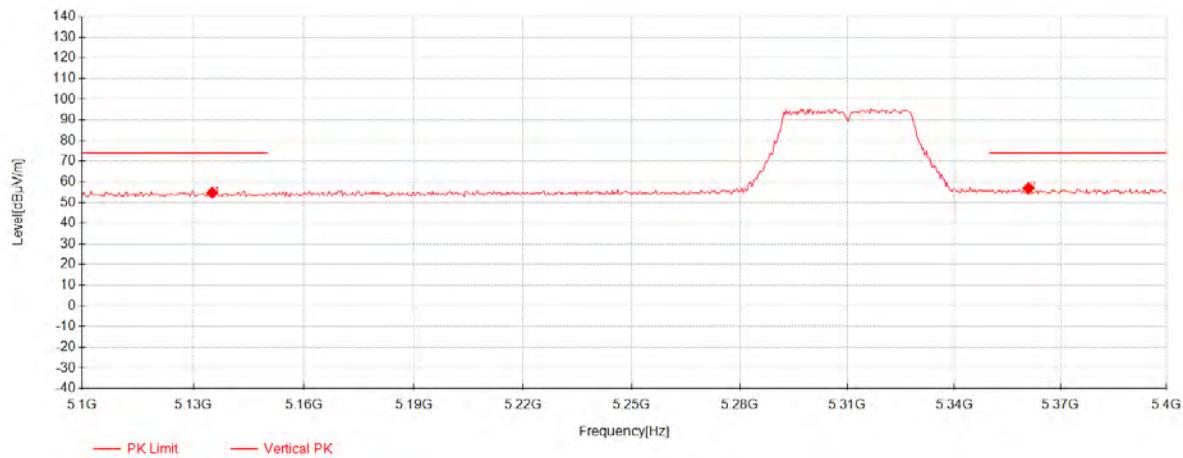
802.11ac40_Channel 62



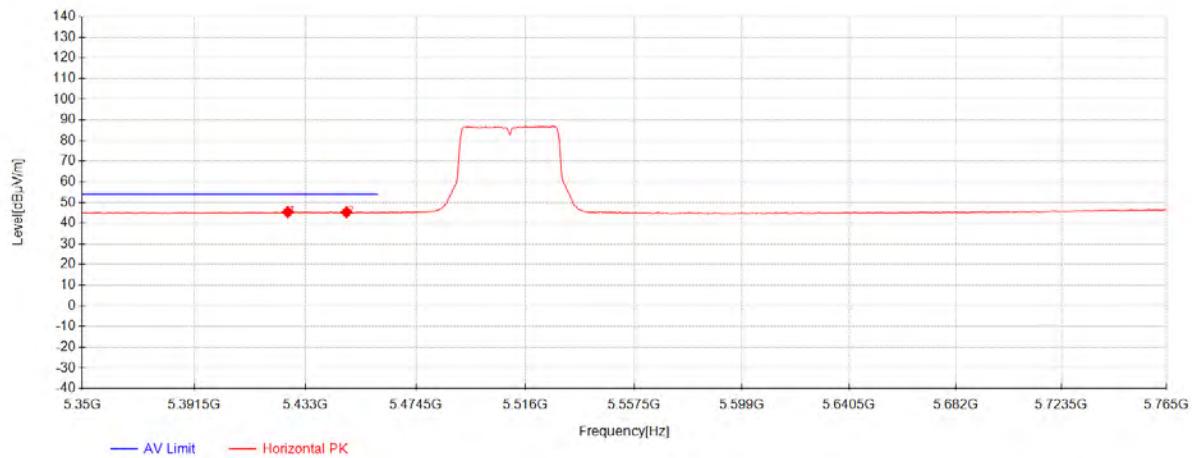
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5130.6	37.85	33.17	-16.10	54.93	74.00	19.07	Horizontal
2	5355.9	38.88	33.13	-15.80	56.21	74.00	17.79	Horizontal

802.11ac40_Channel 62

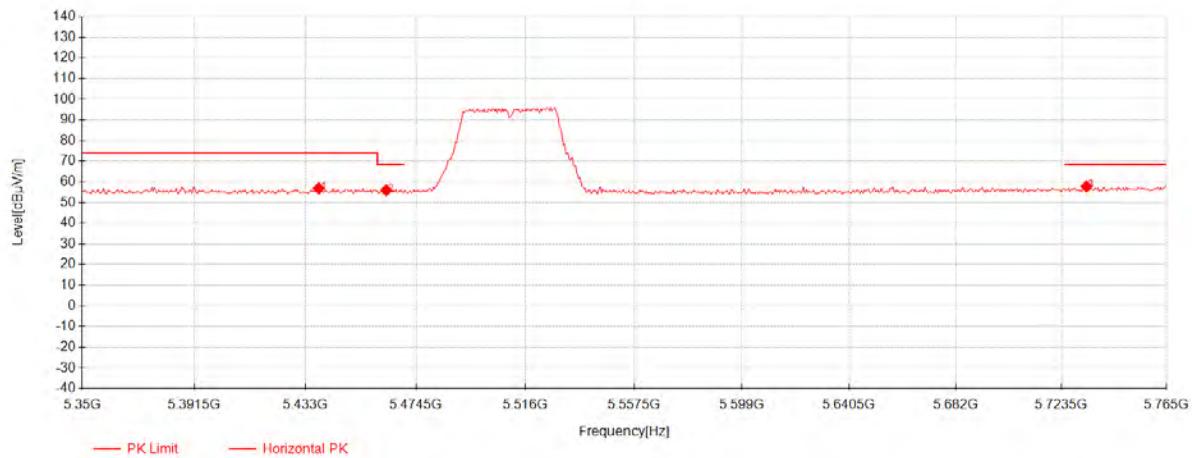
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5141.4	26.92	33.17	-16.08	44.01	54.00	9.99	Vertical
2	5351.7	29.08	33.13	-15.80	46.41	54.00	7.59	Vertical

802.11ac40_Channel 62

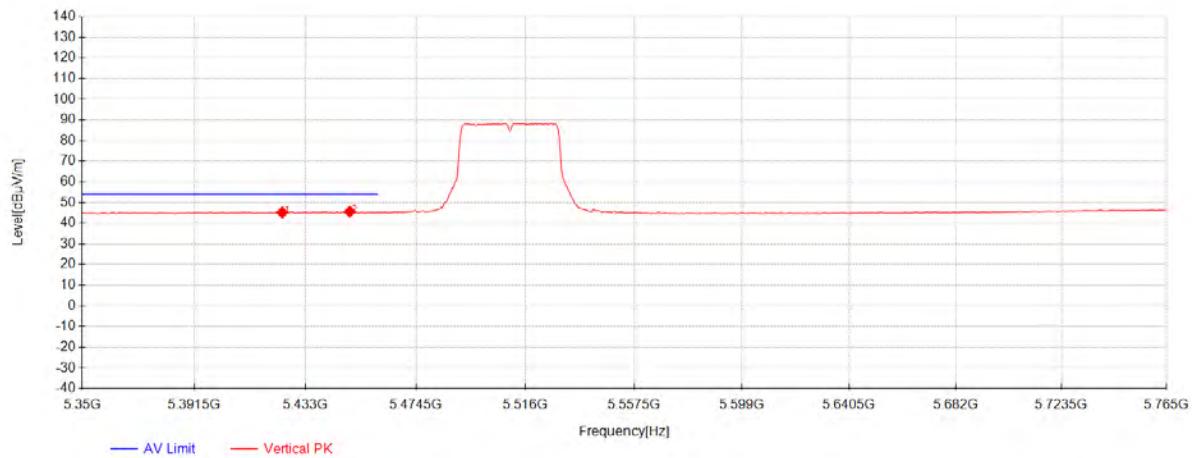
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5135.1	37.69	33.17	-16.09	54.77	74.00	19.23	Vertical
2	5361	39.64	33.13	-15.80	56.97	74.00	17.03	Vertical

802.11ac40_Channel 102

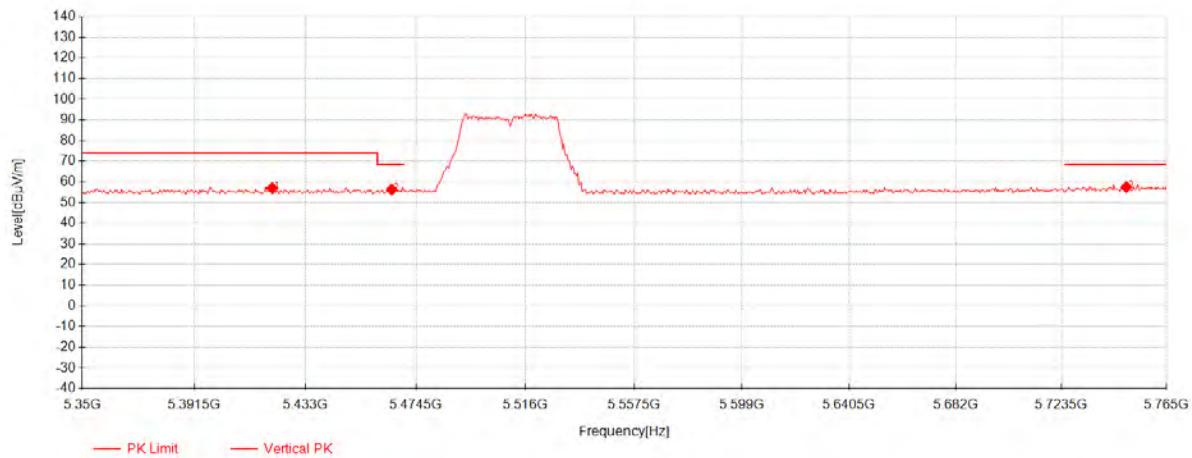
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5426.36	27.96	33.11	-15.67	45.40	54.00	8.60	Horizontal
2	5448.355	27.75	33.11	-15.54	45.32	54.00	8.68	Horizontal

802.11ac40_Channel 102

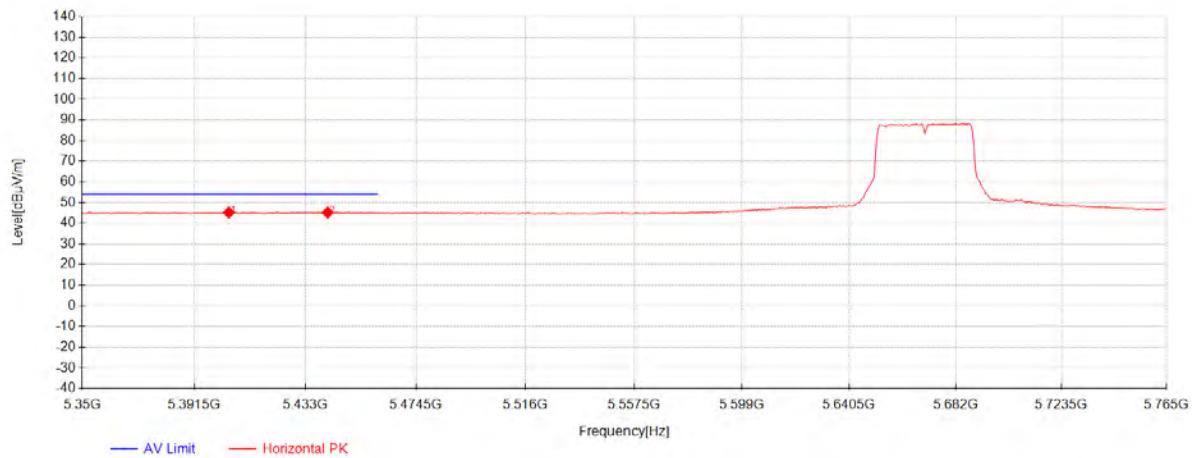
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5437.98	39.38	33.11	-15.60	56.89	74.00	17.11	Horizontal
2	5463.295	38.34	33.11	-15.46	55.99	68.30	12.31	Horizontal
3	5733.46	38.83	33.89	-14.90	57.82	68.30	10.48	Horizontal

802.11ac40_Channel 102

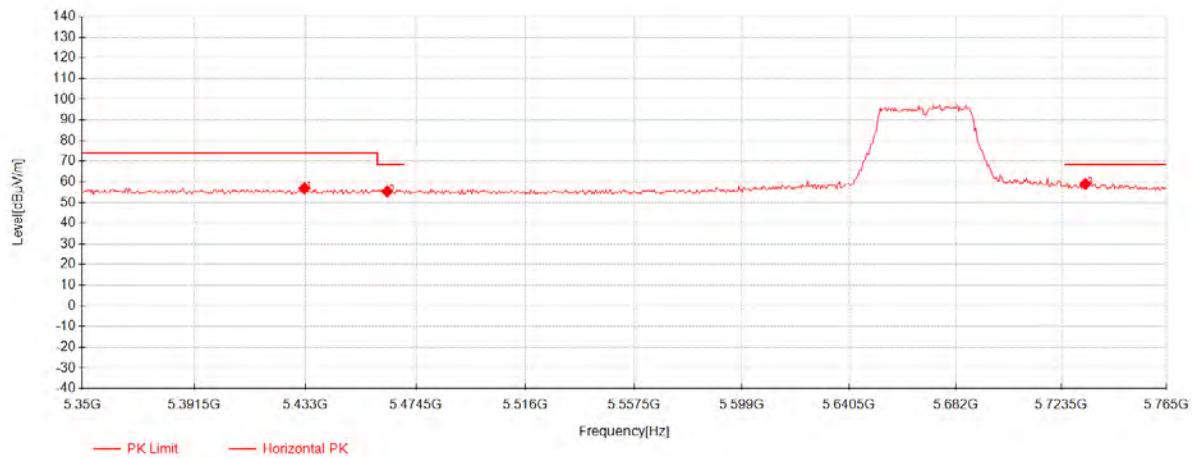
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5424.285	27.78	33.12	-15.68	45.21	54.00	8.79	Vertical
2	5449.6	28.04	33.11	-15.54	45.61	54.00	8.39	Vertical

802.11ac40_Channel 102

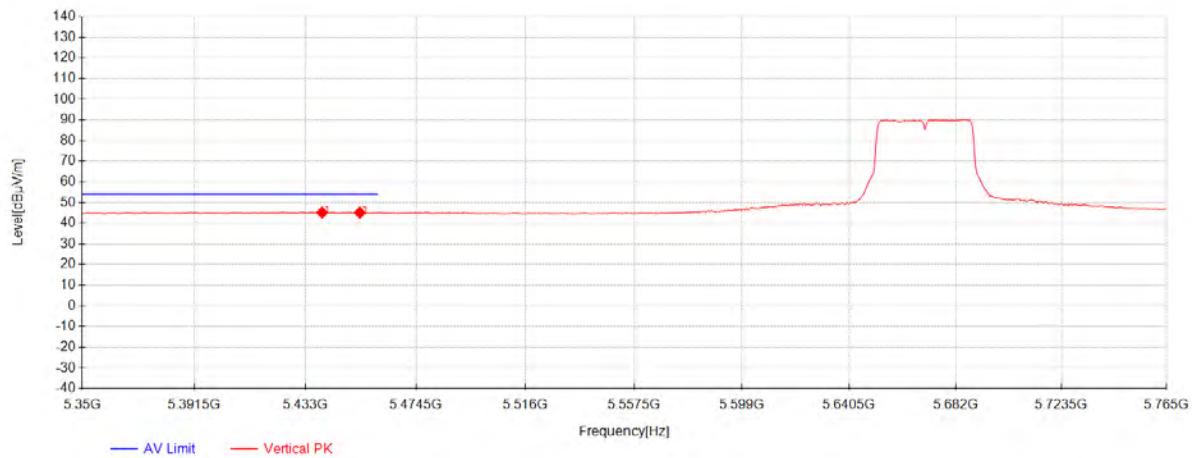
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5420.55	39.60	33.12	-15.70	57.01	74.00	16.99	Vertical
2	5465.37	38.67	33.11	-15.45	56.33	68.30	11.97	Vertical
3	5749.23	38.35	33.95	-14.80	57.50	68.30	10.80	Vertical

802.11ac40_Channel 134

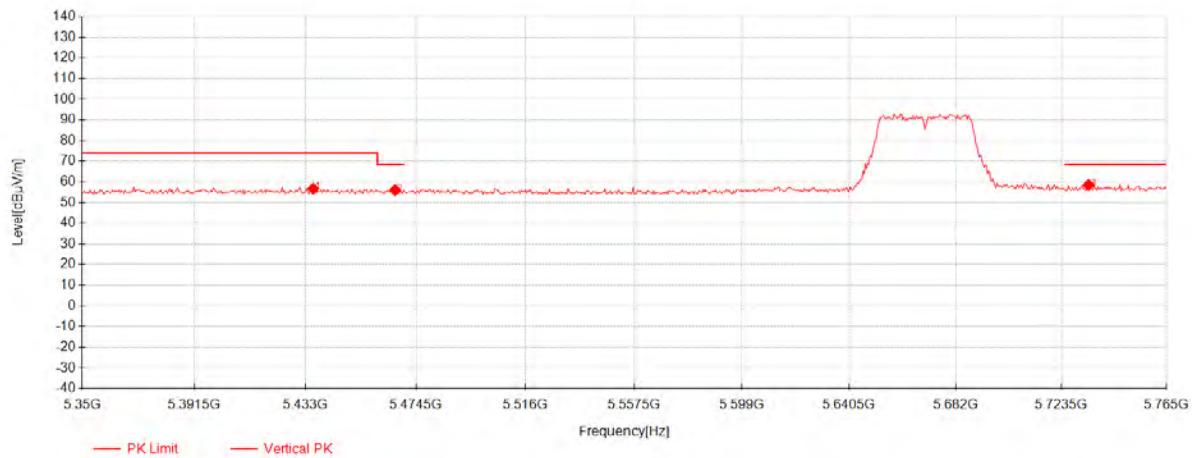
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5404.365	27.90	33.12	-15.80	45.22	54.00	8.78	Horizontal
2	5441.3	27.65	33.11	-15.58	45.18	54.00	8.82	Horizontal

802.11ac40_Channel 134

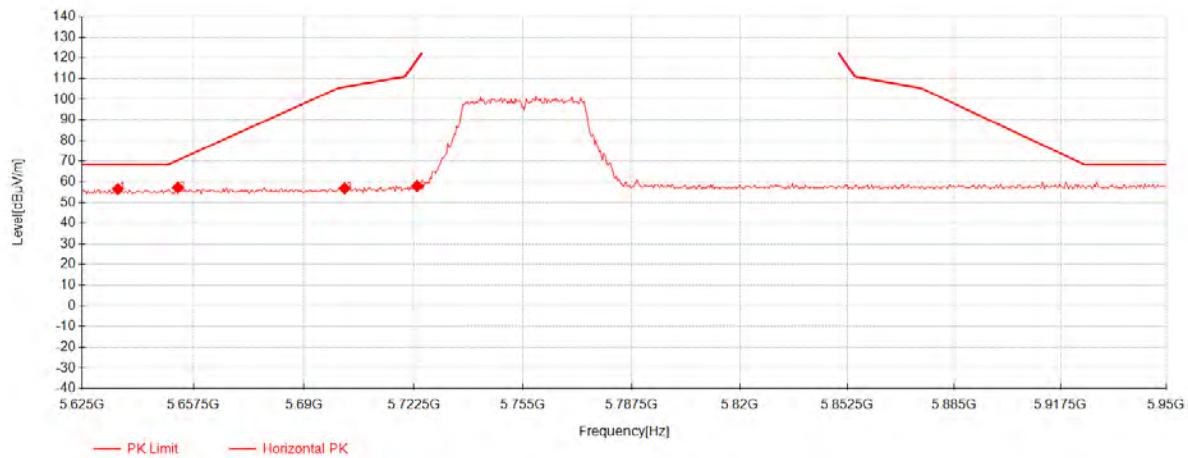
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5432.585	39.45	33.11	-15.63	56.93	74.00	17.07	Horizontal
2	5463.71	37.74	33.11	-15.46	55.39	68.30	12.91	Horizontal
3	5733.045	39.97	33.89	-14.91	58.96	68.30	9.34	Horizontal

802.11ac40_Channel 134

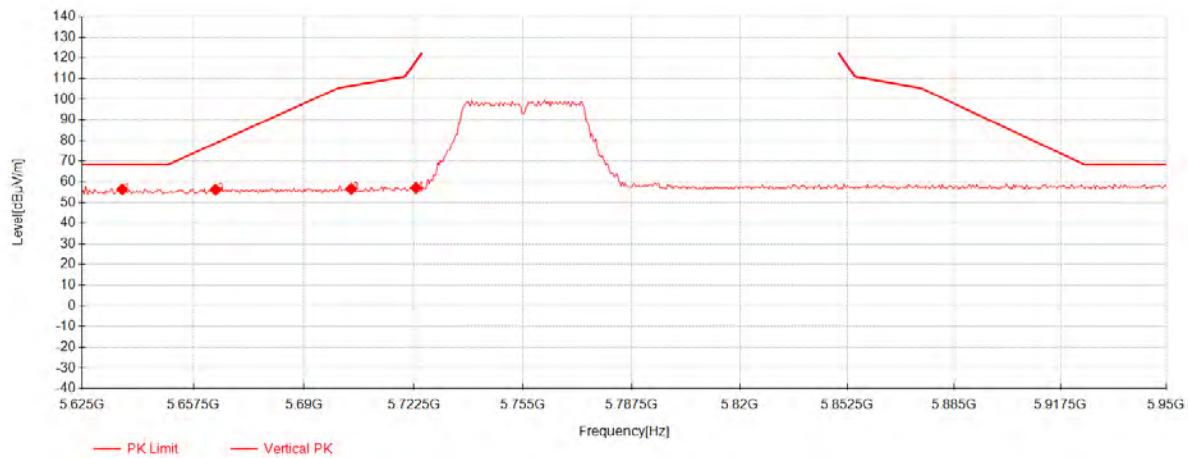
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5439.225	27.64	33.11	-15.60	45.16	54.00	8.84	Vertical
2	5453.335	27.52	33.11	-15.52	45.11	54.00	8.89	Vertical

802.11ac40_Channel 134

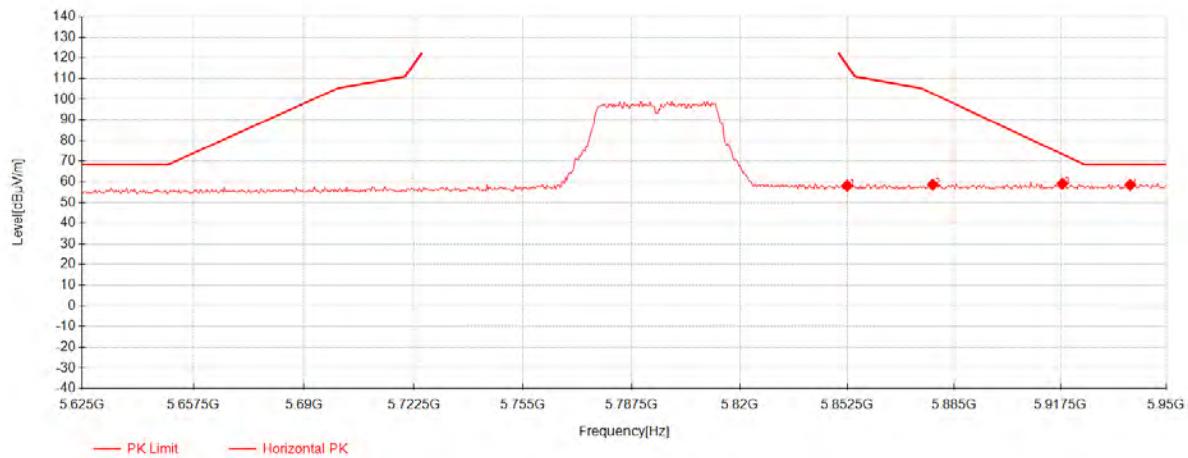
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5435.905	39.22	33.11	-15.62	56.72	74.00	17.28	Vertical
2	5466.615	38.40	33.11	-15.44	56.07	68.30	12.23	Vertical
3	5734.29	39.50	33.90	-14.90	58.50	68.30	9.80	Vertical

802.11ac40_Channel 151

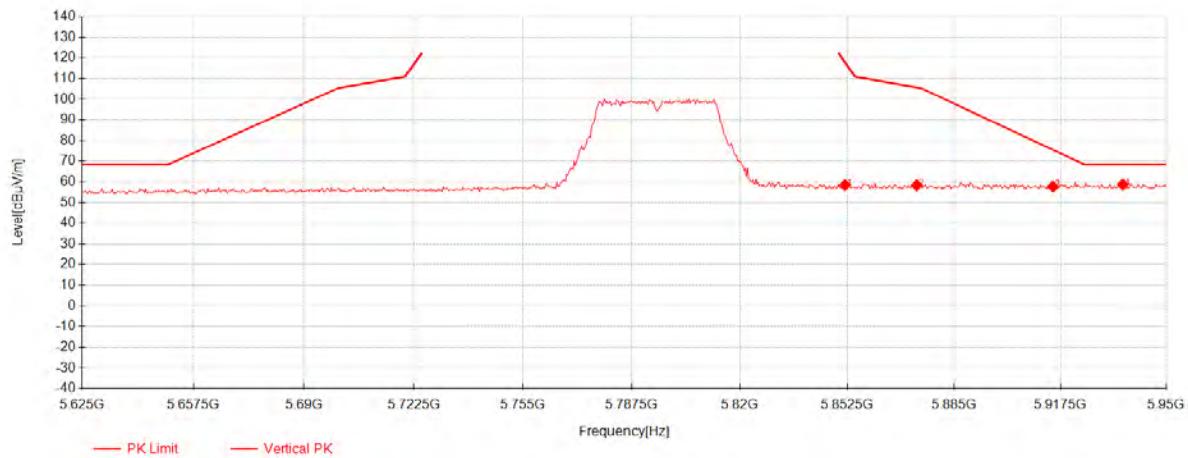
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5635.4	38.24	33.56	-15.25	56.55	68.30	11.75	Horizontal
2	5652.95	38.85	33.62	-15.21	57.26	70.49	13.23	Horizontal
3	5702.025	38.21	33.79	-15.12	56.88	105.87	48.99	Horizontal
4	5723.475	39.12	33.86	-14.97	58.01	118.82	60.81	Horizontal

802.11ac40_Channel 151

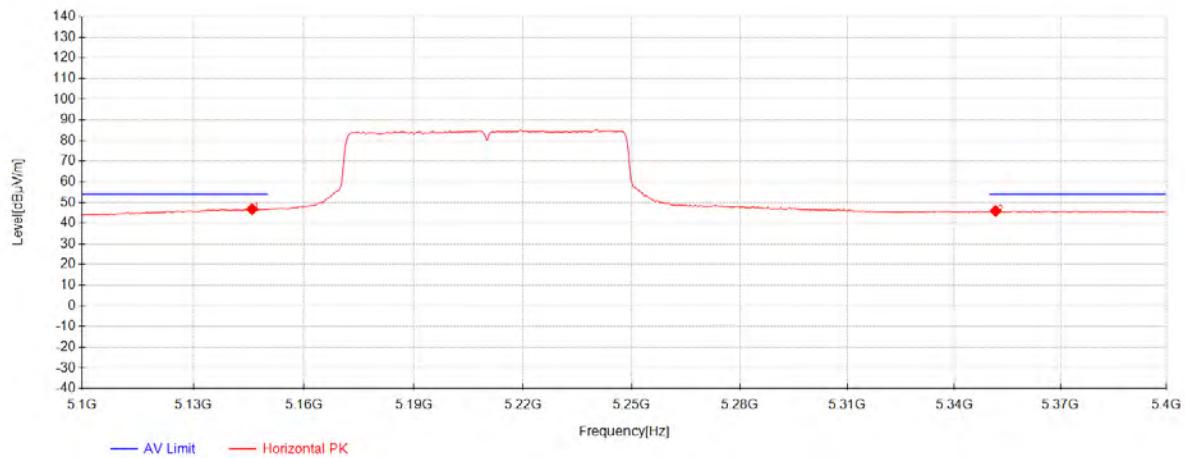
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5636.7	38.05	33.56	-15.24	56.37	68.30	11.93	Vertical
2	5664	37.79	33.66	-15.19	56.25	78.69	22.44	Vertical
3	5703.975	37.95	33.79	-15.10	56.64	106.41	49.77	Vertical
4	5723.15	38.24	33.86	-14.97	57.13	118.08	60.95	Vertical

802.11ac40_Channel 159

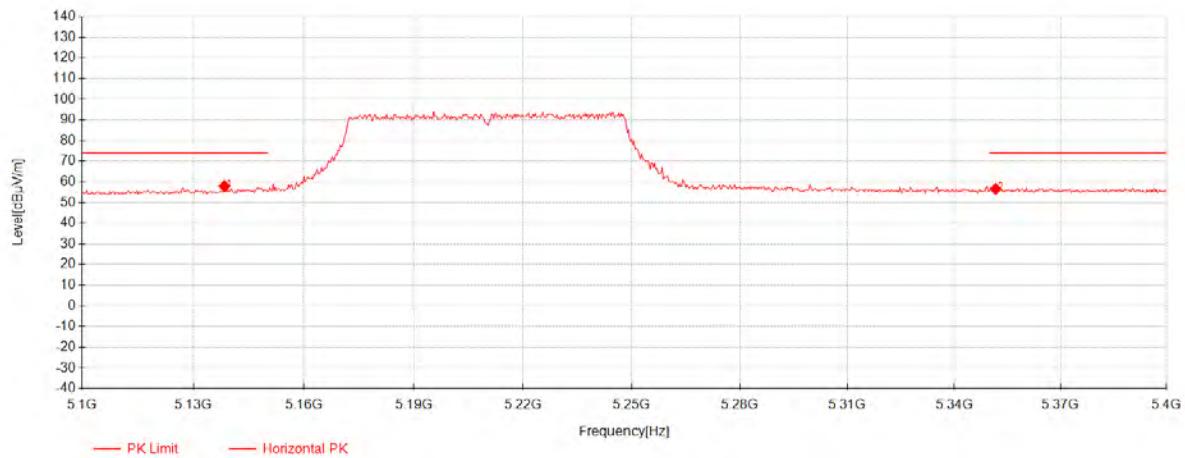
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5852.5	38.34	34.30	-14.49	58.15	116.60	58.45	Horizontal
2	5878.5	38.77	34.39	-14.51	58.64	102.70	44.06	Horizontal
3	5918.15	39.12	34.52	-14.54	59.11	73.35	14.24	Horizontal
4	5938.95	38.47	34.59	-14.54	58.52	68.30	9.78	Horizontal

802.11ac40_Channel 159

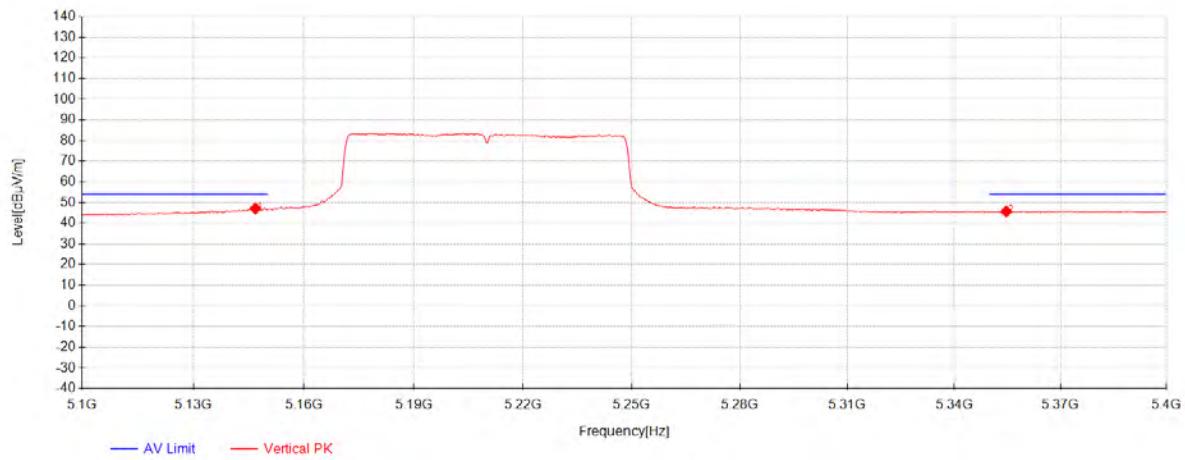
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5851.85	38.70	34.30	-14.49	58.50	118.08	59.58	Vertical
2	5873.625	38.50	34.37	-14.51	58.36	105.68	47.32	Vertical
3	5915.225	37.79	34.51	-14.53	57.77	75.51	17.74	Vertical
4	5936.675	38.66	34.58	-14.54	58.70	68.30	9.60	Vertical

802.11ac80_Channel 42

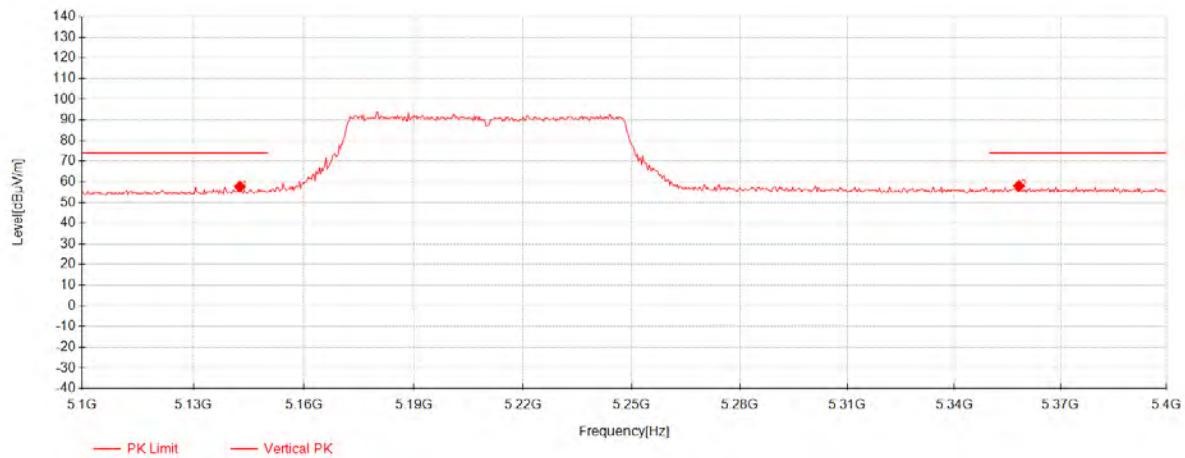
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5145.9	29.70	33.17	-16.07	46.80	54.00	7.20	Horizontal
2	5351.7	28.57	33.13	-15.80	45.90	54.00	8.10	Horizontal

802.11ac80_Channel 42

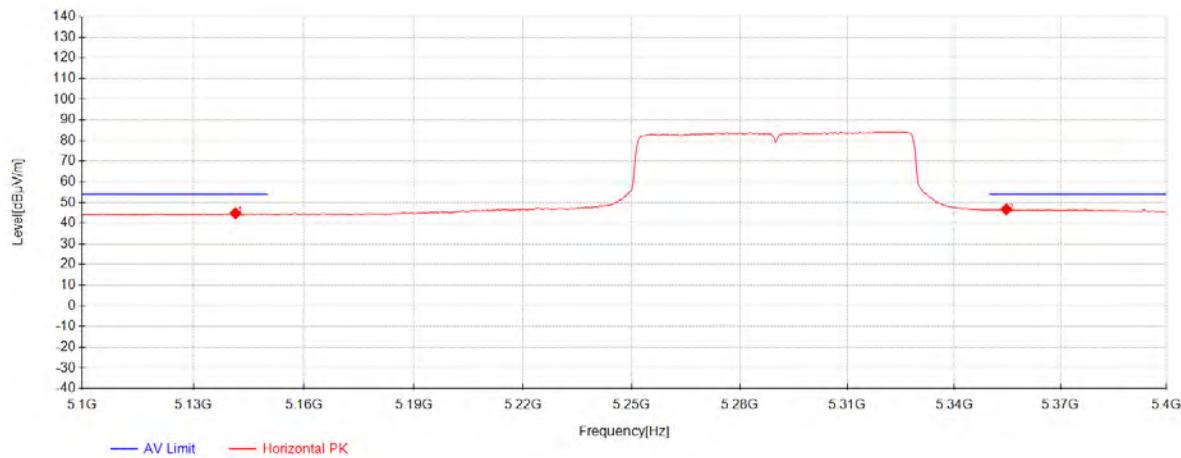
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5138.4	40.84	33.17	-16.08	57.93	74.00	16.07	Horizontal
2	5351.7	39.26	33.13	-15.80	56.59	74.00	17.41	Horizontal

802.11ac80_Channel 42

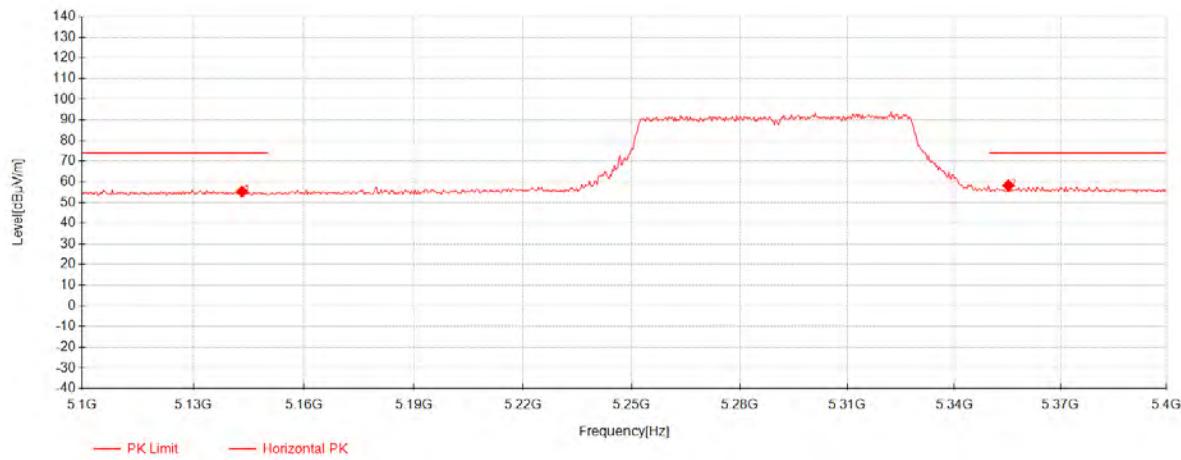
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5146.8	29.98	33.17	-16.07	47.08	54.00	6.92	Vertical
2	5354.7	28.37	33.13	-15.80	45.70	54.00	8.30	Vertical

802.11ac80_Channel 42

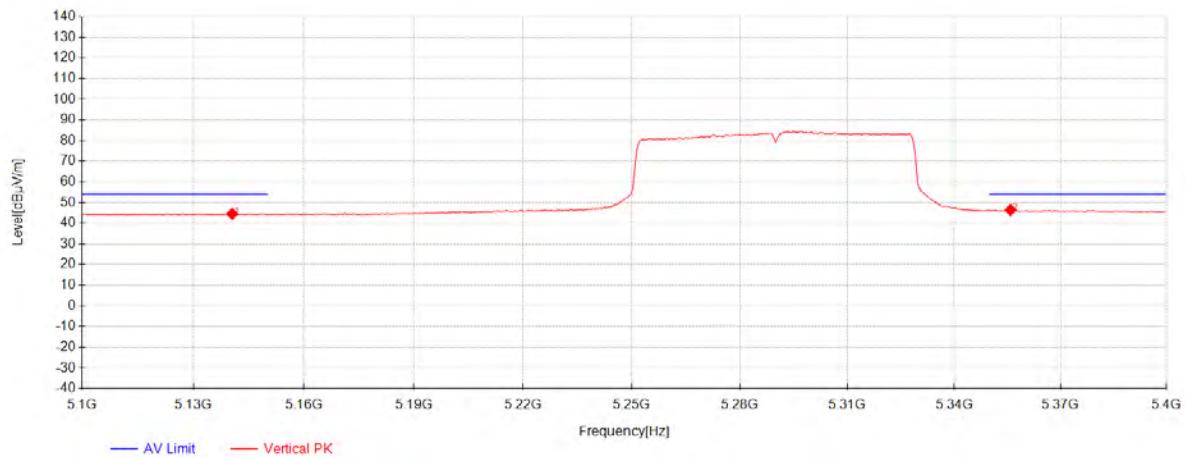
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5142.6	40.61	33.17	-16.08	57.70	74.00	16.30	Vertical
2	5358.3	40.70	33.13	-15.80	58.03	74.00	15.97	Vertical

802.11ac80_Channel 58

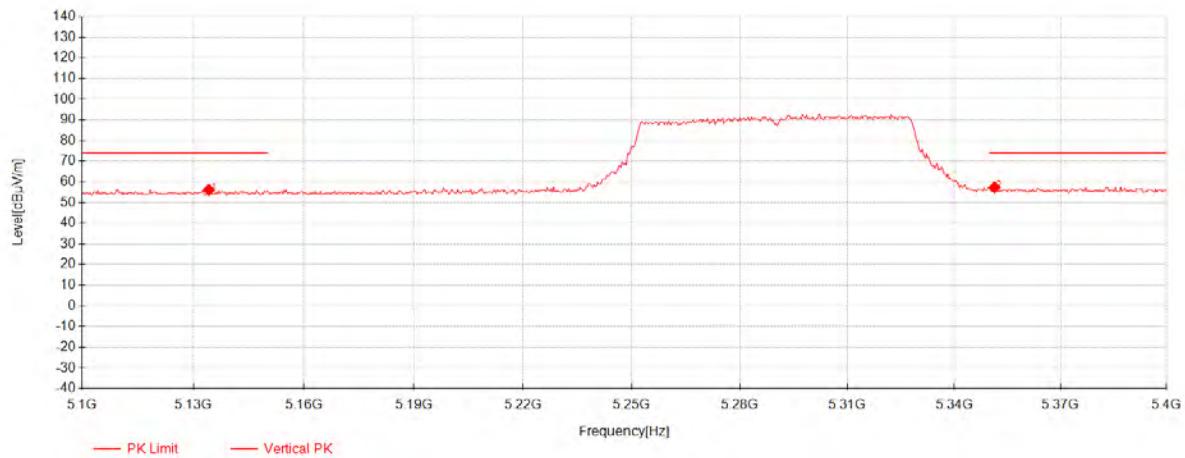
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5141.4	27.70	33.17	-16.08	44.79	54.00	9.21	Horizontal
2	5354.7	29.34	33.13	-15.80	46.67	54.00	7.33	Horizontal

802.11ac80_Channel 58

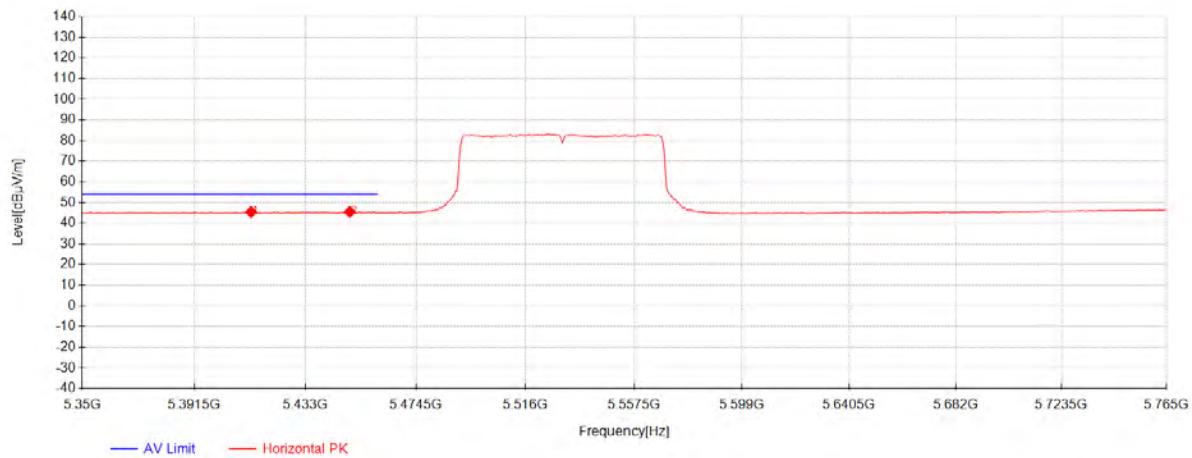
Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5143.2	38.27	33.17	-16.08	55.36	74.00	18.64	Horizontal
2	5355.3	40.89	33.13	-15.80	58.22	74.00	15.78	Horizontal

802.11ac80_Channel 58

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5140.5	27.47	33.17	-16.08	44.56	54.00	9.44	Vertical
2	5355.9	29.06	33.13	-15.80	46.39	54.00	7.61	Vertical

802.11ac80_Channel 58

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5134.2	39.09	33.17	-16.09	56.17	74.00	17.83	Vertical
2	5351.4	40.08	33.13	-15.80	57.41	74.00	16.59	Vertical

802.11ac80_Channel 106

Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	5412.665	28.08	33.12	-15.75	45.45	54.00	8.55	Horizontal
2	5449.6	27.95	33.11	-15.54	45.52	54.00	8.48	Horizontal