

TEST REPORT

Application No.: KSCR2509001954AT
FCC ID: 2BHTA-HRFM
Applicant: SYNLAN TECHNOLOGY PTE.LTD.
Address of Applicant: 7 TEMASEK BOULEVARD#29-01D SUNTEC TOWER ONE, SINGAPORE 038987
Manufacturer: SYNLAN TECHNOLOGY PTE.LTD.
Address of Manufacturer: 7 TEMASEK BOULEVARD#29-01D SUNTEC TOWER ONE, SINGAPORE 038987
Factory: Huizhou Miki Technology Co., LTD
Address of Factory: 2nd Floor, Plant No. 39, Guangtai Road,Huinan High-Tech Industrial Park, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, China
Equipment Under Test (EUT):
EUT Name: Homture Magic Frame
Model No.: HFRM-AI10
Trade Mark: homture
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-09-05
Date of Test: 2025-12-19 to 2025-12-22
Date of Issue: 2025-12-22

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	2025-12-22	/

Authorized for issue by:			
Tested By		Damon Zhou	
		Damon_Zhou/Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	

2 Test Summary

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	Test Lab*
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass	B
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass	A
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2020) Section 12.5.3	Pass	A
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2020) Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass	A
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass	A
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass	A
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass	A

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V,2A Adapter model: A319-050200U-US2 Input: AC 100-240V,50/60Hz, Max 0.3A Output: DC 5V,2000mA
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 (11 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 (5 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 Channels) U-NII-2C: 5530-5610MHz (2 Channels) U-NII-3: 5775MHz (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
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	1.56dBi (Provided by the manufacturer)

4.2 Power level setting using in test

Channel	802.11a	802.11ac(HT20)	802.11ax(HT20)
	Ant 1	Ant 1	Ant 1
36	50	50	50
40	50	5F	5F
48	50	50	50
52	46	46	64
60	46	46	64
64	46	46	5F
100	48	48	46
116	48	48	46
140	50	50	50
149	56	56	6E
157	56	56	6E
165	56	56	6E
Channel	802.11ac40	802.11ax40	
	Ant 1	Ant 1	
38	49	50	
46	49	50	
54	49	48	
62	49	48	
102	48	48	
110	48	48	
134	48	5A	
151	58	5A	
159	58	5A	
Channel	802.11ac80	802.11ax80	
	Ant 1	Ant 1	
42	56	56	
58	56	56	
106	46	46	
122	50	50	
155	58	58	

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/

4.4 Measurement Uncertainty

Lab A:

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 $k=2$.

Lab B:

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 2.6\text{dB}$ (30MHz-1GHz)
		$\pm 2.7\text{dB}$ (1GHz-18GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1\%$
12	Time	$\pm 3\%$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.5 Test Location

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

Lab B:

Conducted Emissions at AC Power Line (150kHz-30MHz); Radiated Emissions; Radiated Emissions which fall in the restricted bands test at:

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

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

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

Lab A:

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

• **FCC (Designation Number: CN1172)**

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

• **ISED (CAB Identifier: CN0072)**

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 (Member No: 1938)**

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.

Lab B:

• **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

Lab A:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	07/09/2025	07/08/2026
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	07/09/2025	07/08/2026
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	07/09/2025	07/08/2026
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	07/08/2025	07/07/2026
7	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	07/09/2025	07/08/2026
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	02/19/2025	02/18/2026
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	07/08/2025	07/07/2026
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	KS301190	07/15/2025	07/14/2026
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

Lab B:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
2	LISN	R&S	ENV216	SUWI-01-19-03	5/8/2025	5/7/2026
3	LISN	Schwarzbeck	ENV216	SUWI-01-19-04	5/8/2025	5/7/2026
4	Test Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	N.C.R	N.C.R
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
2	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/20/2025	1/19/2026
3	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-09	11/21/2025	11/20/2026
4	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-18-01	1/16/2025	1/15/2026
6	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	9/10/2025	9/9/2027
7	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/7/2025	5/6/2027
8	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2027
9	Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2027
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/16/2025	1/15/2026
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026
13	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	11/21/2025	11/20/2026
14	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	8/25/2025	8/24/2026
15	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	8/26/2025	8/25/2026
16	Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	2025/11/21	2026/11/20
17	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	1/16/2025	1/15/2026
18	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
19	Temperature and	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026



	humidity meter					
20	Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-06	NCR	NCR
21	RF Control unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR
22	RFCables	Tonscend	NA	SUWI-01-03-02	1/16/2025	1/15/2026

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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is FPC antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.56dBi.

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

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(dBμV)	
	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: 20.1 °C

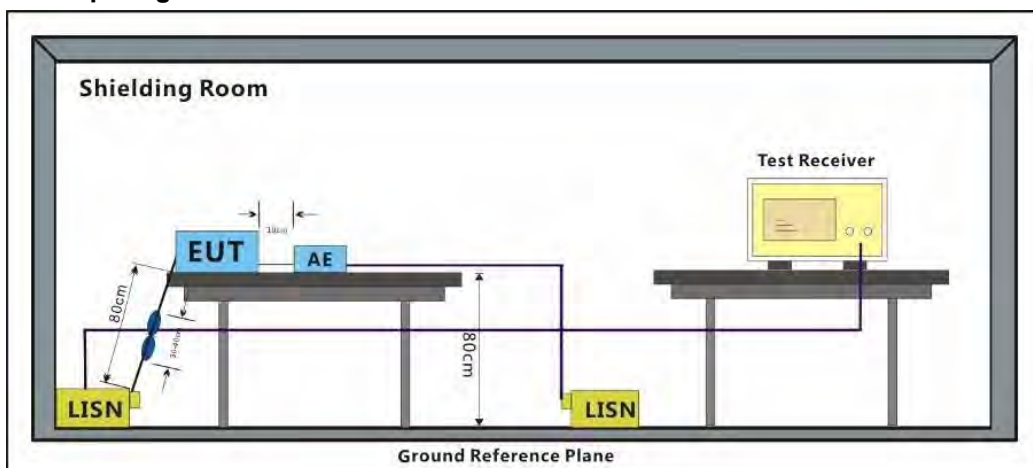
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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, 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 $50\Omega/50\mu\text{H} + 50\Omega$ 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.

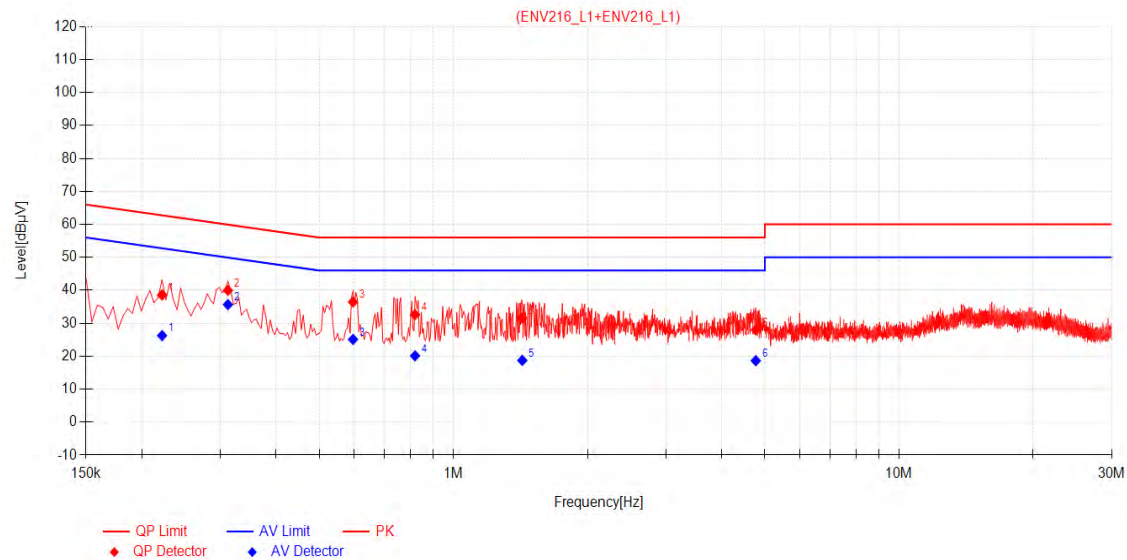
Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{LISN Factor}$

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



Test Mode: 01; Line: Live line

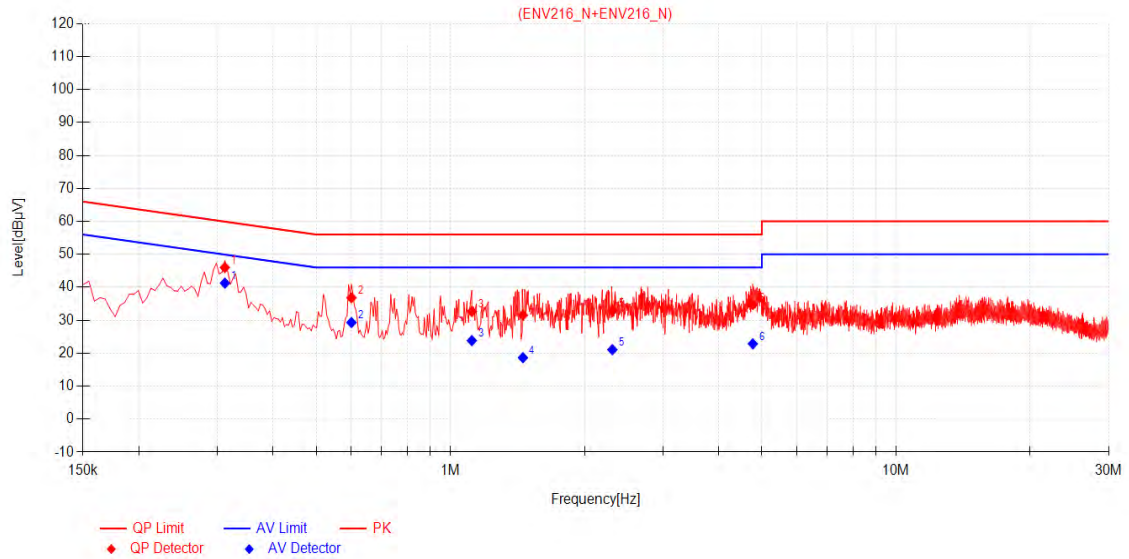
Test Graph



Final Data List								
NO.	Frequency [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2220	38.58	62.74	24.16	26.24	52.74	26.50	PASS
2	0.3120	39.98	59.92	19.94	35.67	49.92	14.25	PASS
3	0.5955	36.46	56.00	19.54	25.08	46.00	20.92	PASS
4	0.8205	32.62	56.00	23.38	20.12	46.00	25.88	PASS
5	1.4280	31.58	56.00	24.42	18.73	46.00	27.27	PASS
6	4.7715	27.99	56.00	28.01	18.64	46.00	27.36	PASS



Test Mode: 01; Line: Neutral Line

Test Graph**Final Data List**

NO.	Frequency [MHz]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.3120	46.01	59.92	13.91	41.26	49.92	8.66	PASS
2	0.6000	36.83	56.00	19.17	29.30	46.00	16.70	PASS
3	1.1175	32.66	56.00	23.34	23.82	46.00	22.18	PASS
4	1.4550	31.54	56.00	24.46	18.64	46.00	27.36	PASS
5	2.3100	32.86	56.00	23.14	21.07	46.00	24.93	PASS
6	4.7715	34.73	56.00	21.27	22.86	46.00	23.14	PASS

7.2 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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C

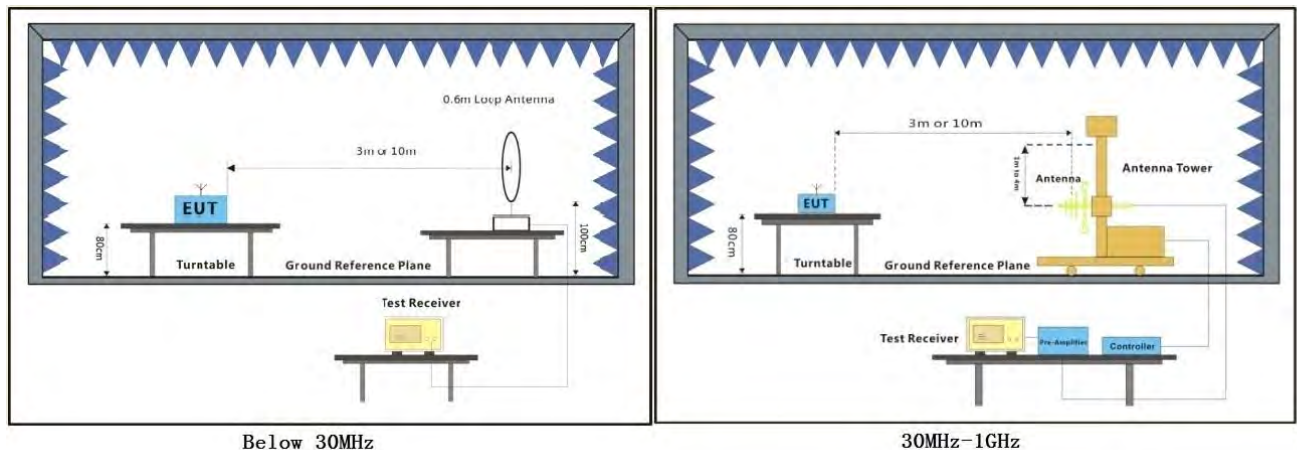
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 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:

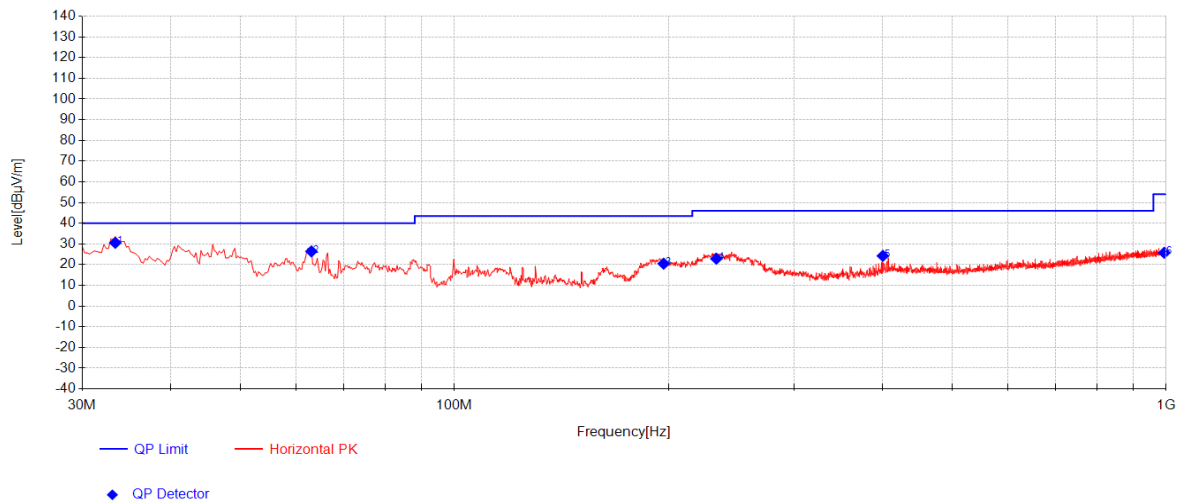
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked 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 below harmonics were the highest point could be found when testing, so only the below harmonics had been displayed.



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Test Mode: 01; Polarity: Horizontal

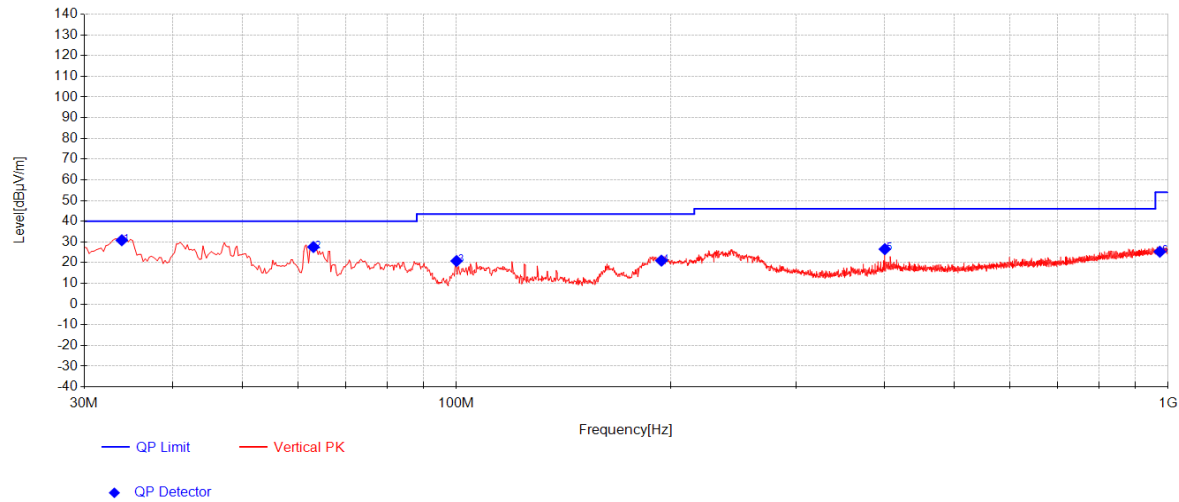


Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.395	51.83	12.70	-33.97	30.56	40.00	9.44	125	30	Horizontal
2	62.98	48.25	11.67	-33.51	26.41	40.00	13.59	130	290	Horizontal
3	196.84	42.81	9.94	-32.28	20.48	43.50	23.02	171	130	Horizontal
4	233.4575	43.54	11.41	-32.08	22.87	46.00	23.13	195	120	Horizontal
5	400.055	39.47	15.80	-31.03	24.24	46.00	21.76	142	110	Horizontal
6	994.4225	29.14	24.46	-27.86	25.73	54.00	28.27	155	280	Horizontal



Test Mode: 01; Polarity: Vertical



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.88	52.06	12.73	-33.96	30.83	40.00	9.17	134	200	Vertical
2	62.98	49.39	11.67	-33.51	27.55	40.00	12.45	166	300	Vertical
3	100.0825	44.71	9.21	-33.12	20.80	43.50	22.70	152	310	Vertical
4	194.1725	43.21	10.06	-32.30	20.98	43.50	22.52	147	210	Vertical
5	400.055	41.76	15.80	-31.03	26.53	46.00	19.47	132	280	Vertical
6	973.81	29	24.29	-28.02	25.28	54.00	28.72	128	240	Vertical

7.3 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.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 49.6 % RH

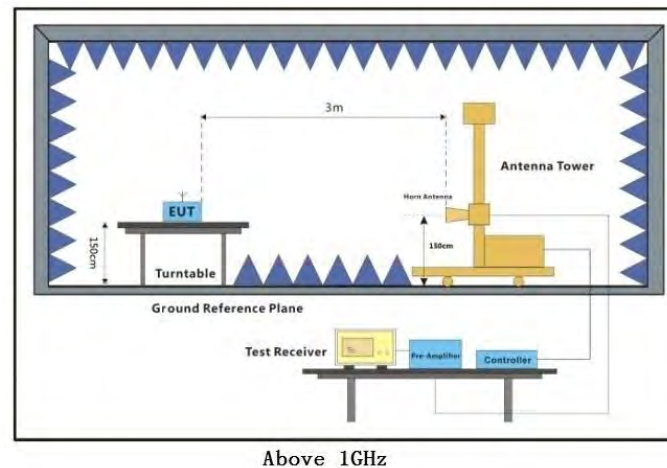
Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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, Only the data of worst case is recorded in the report.
Final test	02	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, Only the data of worst case is recorded in the report.
Final test	03	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, Only the data of worst case is recorded in the report.
Final test	04	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, 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 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:

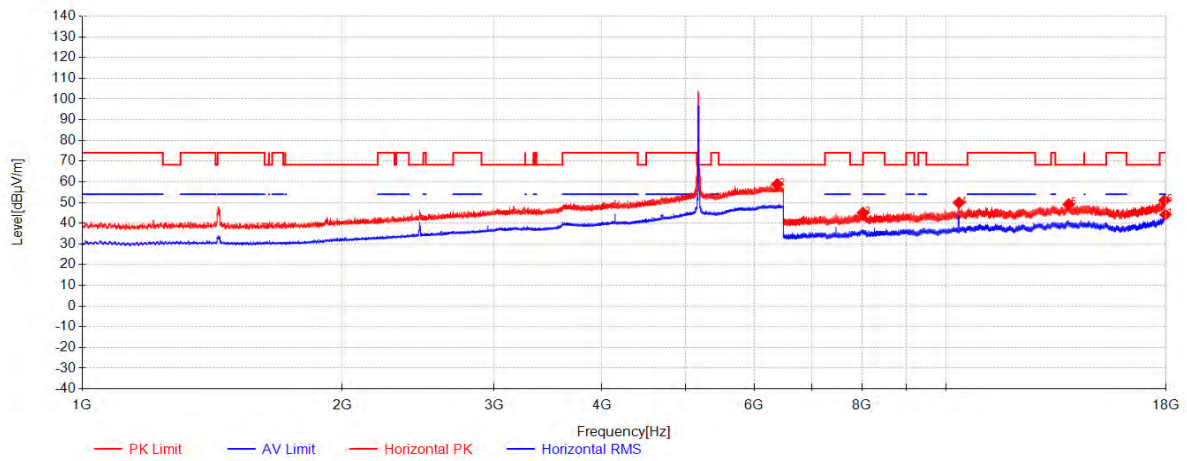
1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only above points had been displayed. 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 below harmonics were the highest point could be found when testing, so only the below 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.



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11a_TX_CH_36_Horizontal



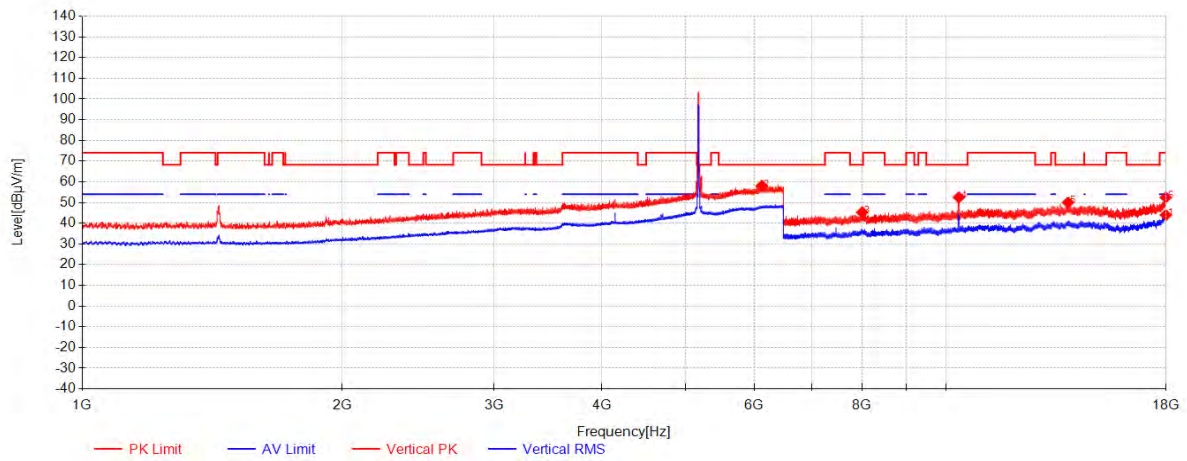
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17971.6333	33.53	41.62	-30.99	44.16	54.00	9.84	Horizontal
2	6383.5833	40.25	35.27	-16.66	58.86	68.20	9.34	Horizontal
3	8022.9833	48.88	37.32	-41.15	45.05	68.20	23.15	Horizontal
4	10359.4	48.25	38.53	-36.85	49.93	68.20	18.27	Horizontal
5	13885.3	42.86	40.34	-34.00	49.20	68.20	19.00	Horizontal
6	17932.9167	40.64	41.51	-31.06	51.08	74.00	22.92	Horizontal



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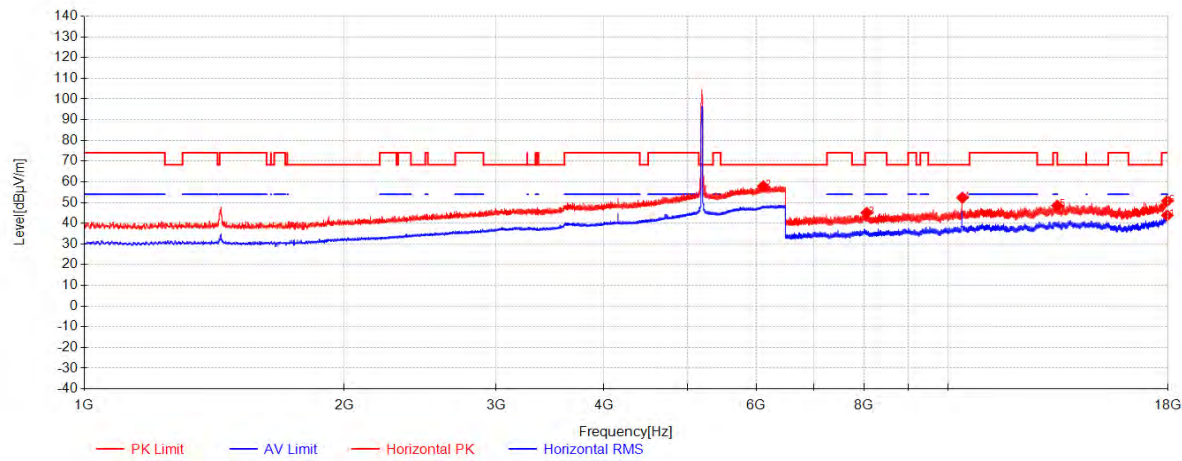
11a_TX_CH_36_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17991.1833	33.22	41.67	-30.95	43.95	54.00	10.05	Vertical
2	6125.5417	40.04	34.75	-16.71	58.08	68.20	10.12	Vertical
3	8006.1167	49.15	37.30	-41.17	45.28	68.20	22.92	Vertical
4	10359.4	50.82	38.53	-36.85	52.50	68.20	15.70	Vertical
5	13860	44.01	40.33	-34.34	50.00	68.20	18.20	Vertical
6	17988.5	41.74	41.67	-30.95	52.45	74.00	21.55	Vertical

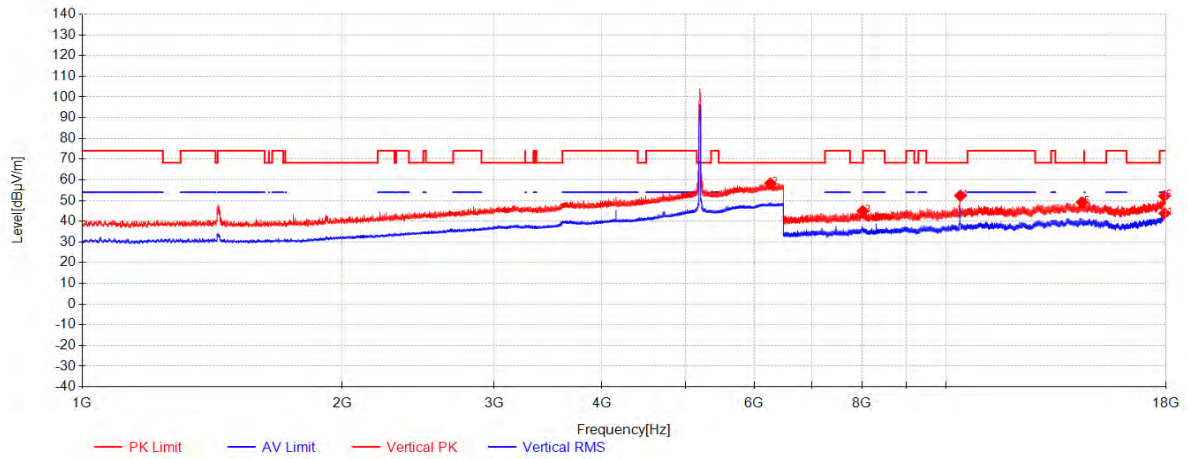


11a_TX_CH_40_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17963.9667	33.20	41.60	-31.00	43.79	54.00	10.21	Horizontal
2	6115.9167	39.84	34.73	-16.70	57.87	68.20	10.33	Horizontal
3	8059.4	48.79	37.34	-41.09	45.04	74.00	28.96	Horizontal
4	10400.8	50.38	38.58	-36.61	52.35	68.20	15.85	Horizontal
5	13396.9333	42.87	40.10	-34.46	48.50	74.00	25.50	Horizontal
6	17962.8167	40.18	41.59	-31.00	50.77	74.00	23.23	Horizontal

11a_TX_CH_40_Vertical



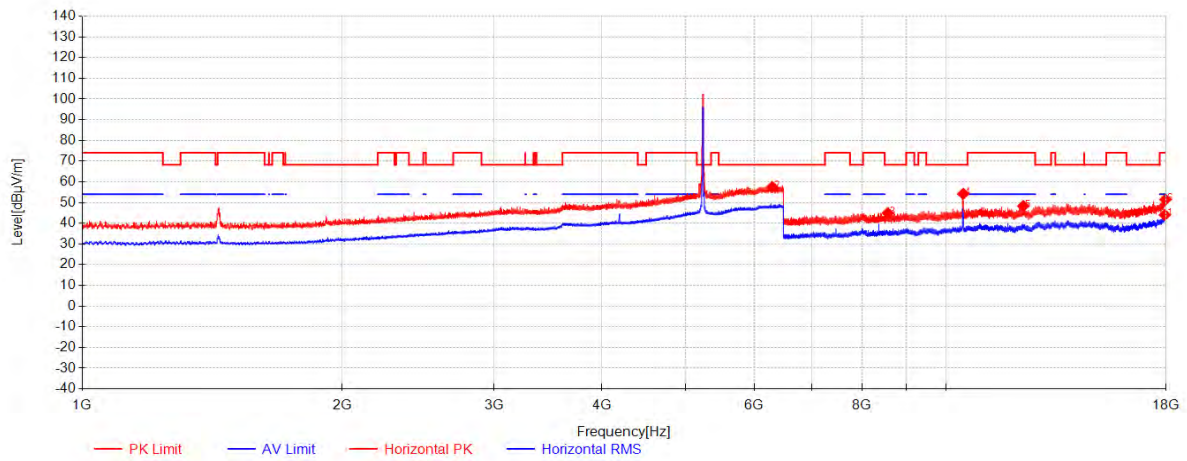
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17934.8333	33.38	41.51	-31.06	43.83	54.00	10.17	Vertical
2	6266.7083	40.22	35.03	-16.96	58.29	68.20	9.91	Vertical
3	8018.7667	48.75	37.31	-41.15	44.91	68.20	23.29	Vertical
4	10399.65	50.37	38.58	-36.61	52.34	68.20	15.86	Vertical
5	14385.1667	42.91	40.17	-33.94	49.14	68.20	19.06	Vertical
6	17919.8833	41.73	41.47	-31.09	52.11	74.00	21.89	Vertical



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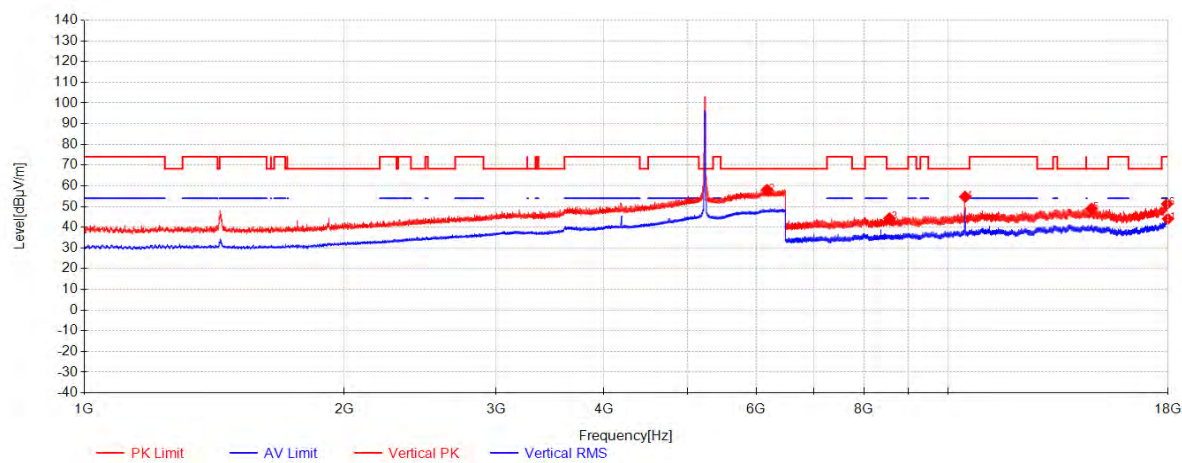
11a_TX_CH_48_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17942.8833	33.53	41.53	-31.04	44.02	54.00	9.98	Horizontal
2	6297.875	39.48	35.10	-17.04	57.54	68.20	10.66	Horizontal
3	8572.3	47.45	37.70	-40.21	44.94	68.20	23.26	Horizontal
4	10480.5333	52.00	38.68	-36.47	54.21	68.20	13.99	Horizontal
5	12301.3667	43.94	39.06	-34.68	48.32	74.00	25.68	Horizontal
6	17972.4	40.77	41.62	-30.99	51.40	74.00	22.60	Horizontal



11a_TX_CH_48_Veritical



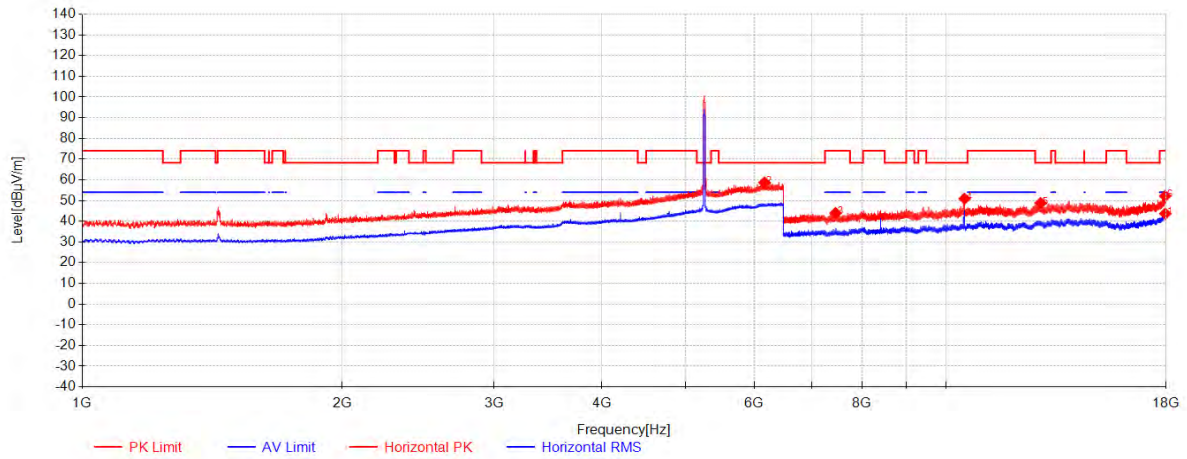
Data List								
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1	17994.6333	33.33	41.68	-30.94	44.07	54.00	9.93	Vertical
2	6178.7083	40.00	34.86	-16.78	58.08	68.20	10.12	Vertical
3	8563.1	46.85	37.69	-40.22	44.32	68.20	23.88	Vertical
4	10478.6167	52.50	38.67	-36.47	54.71	68.20	13.49	Vertical
5	14676.8833	42.98	39.99	-34.00	48.98	68.20	19.22	Vertical
6	17954.7667	40.70	41.57	-31.02	51.25	74.00	22.75	Vertical



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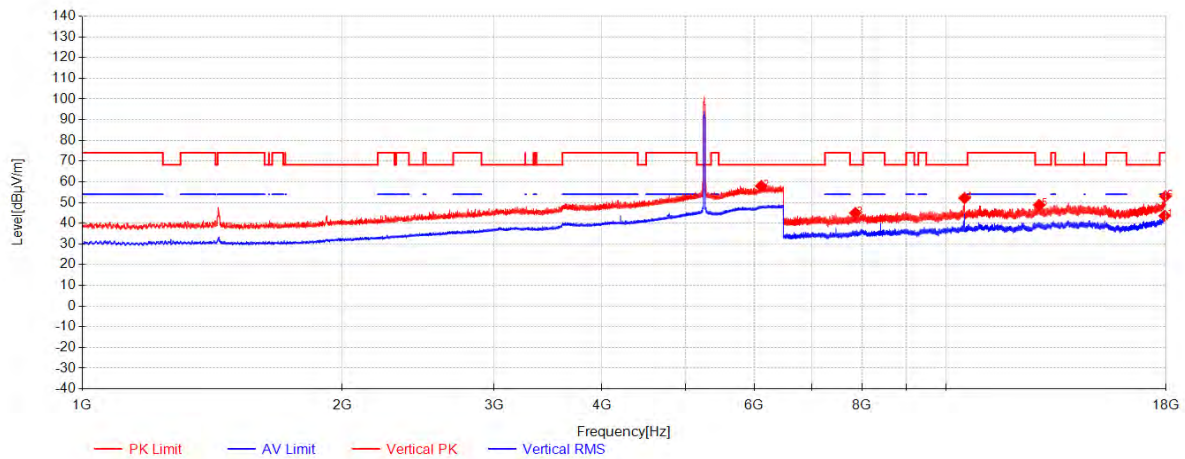
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11a_TX_CH_52_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17965.8833	33.07	41.60	-31.00	43.67	54.00	10.33	Horizontal
2	6168.625	40.62	34.84	-16.77	58.69	68.20	9.51	Horizontal
3	7458.7167	49.68	36.30	-42.04	43.94	74.00	30.06	Horizontal
4	10520.0167	48.64	38.72	-36.48	50.89	68.20	17.31	Horizontal
5	12883.2667	43.51	39.76	-34.51	48.76	68.20	19.44	Horizontal
6	17959.3667	41.63	41.58	-31.01	52.20	74.00	21.80	Horizontal

11a_TX_CH_52_Vertical



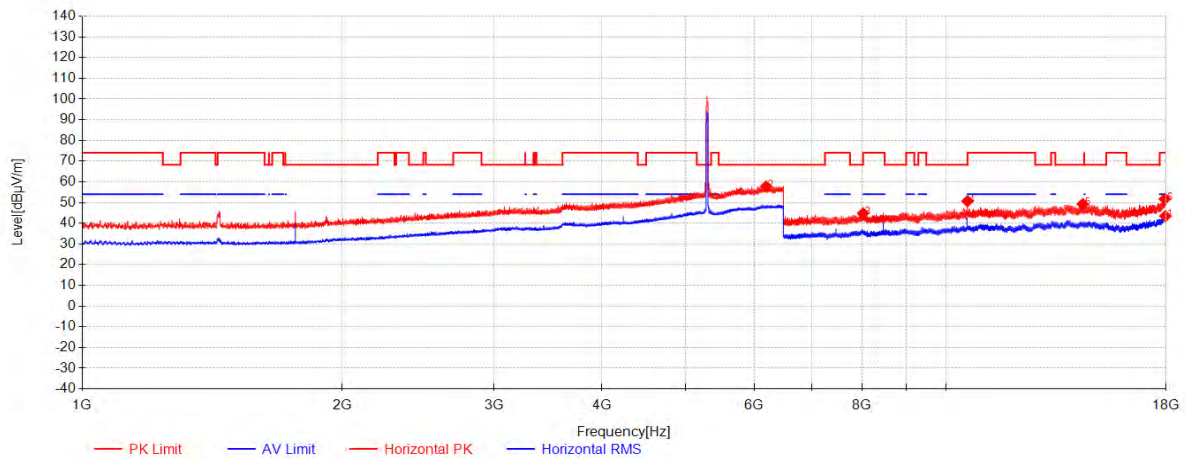
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17933.6833	33.17	41.51	-31.06	43.62	54.00	10.38	Vertical
2	6116.8333	39.94	34.73	-16.70	57.97	68.20	10.23	Vertical
3	7860.8333	49.24	37.02	-41.31	44.95	68.20	23.25	Vertical
4	10519.6333	49.91	38.72	-36.48	52.16	68.20	16.04	Vertical
5	12835.35	43.78	39.70	-34.67	48.82	68.20	19.38	Vertical
6	17971.25	42.39	41.62	-30.99	53.02	74.00	20.98	Vertical



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11a_TX_CH_60_Horizontal



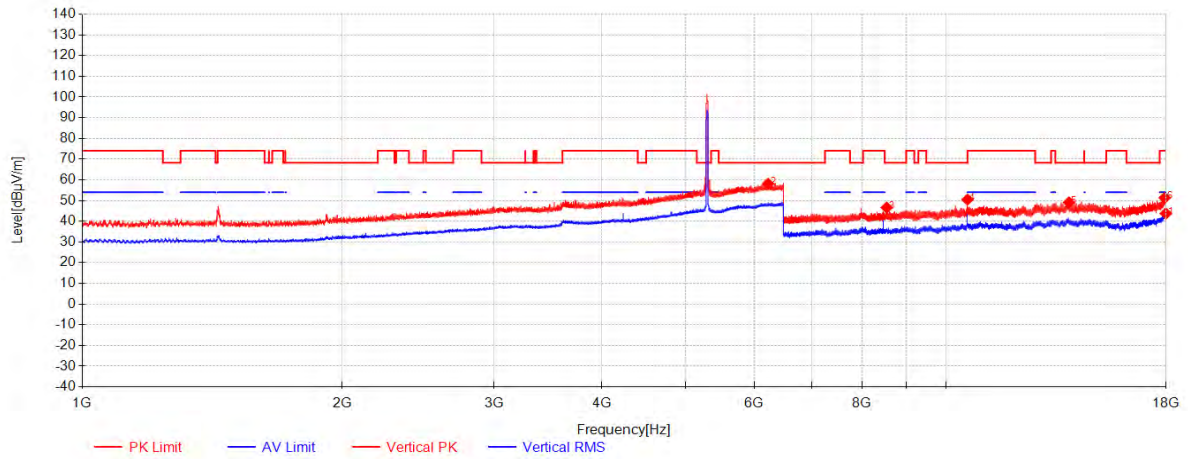
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17969.7167	32.88	41.61	-30.99	43.50	54.00	10.50	Horizontal
2	6196.5833	39.70	34.89	-16.81	57.79	68.20	10.41	Horizontal
3	8025.2833	48.64	37.32	-41.14	44.82	74.00	29.18	Horizontal
4	10600.9	48.50	38.82	-36.66	50.66	74.00	23.34	Horizontal
5	14415.8333	43.06	40.15	-33.93	49.28	68.20	18.92	Horizontal
6	17945.95	41.17	41.54	-31.04	51.68	74.00	22.32	Horizontal



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11a_TX_CH_60_Vertical



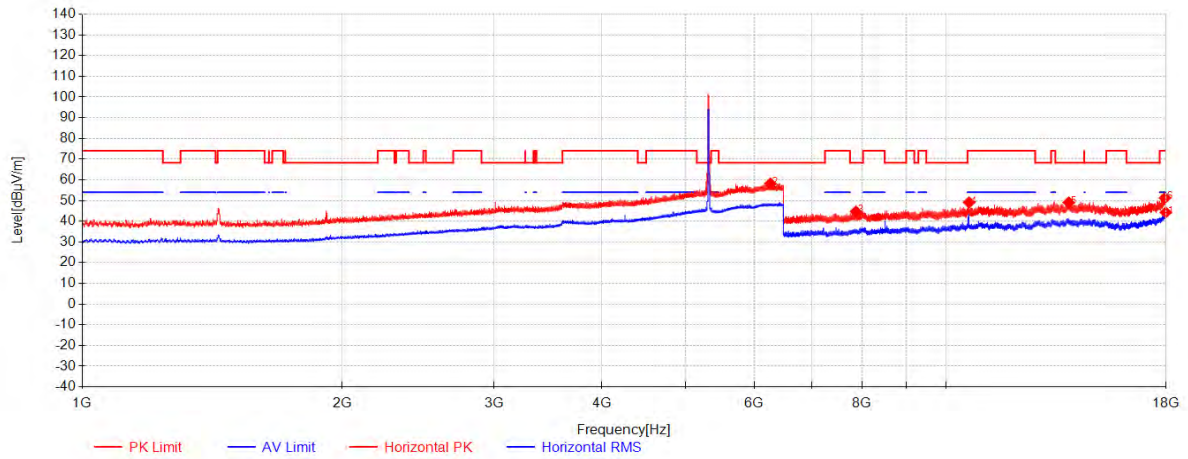
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17991.1833	33.04	41.67	-30.95	43.77	54.00	10.23	Vertical
2	6228.6667	40.04	34.96	-16.88	58.12	68.20	10.08	Vertical
3	8545.85	49.16	37.68	-40.24	46.60	68.20	21.60	Vertical
4	10601.6667	48.29	38.82	-36.66	50.46	74.00	23.54	Vertical
5	13898.3333	42.57	40.35	-33.82	49.10	68.20	19.10	Vertical
6	17936.3667	40.83	41.52	-31.06	51.29	74.00	22.71	Vertical



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11a_TX_CH_64_Horizontal



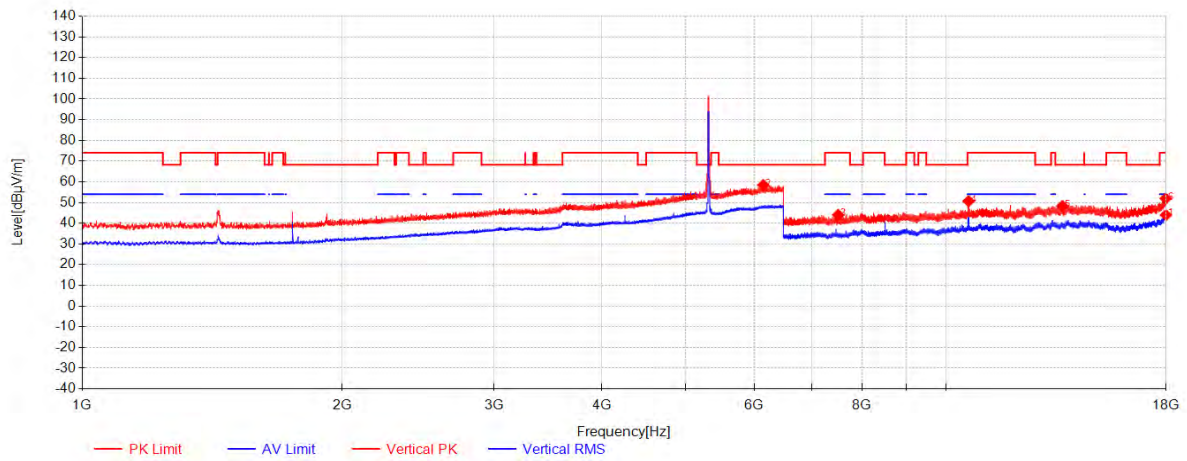
Data List								
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1	17987.7333	33.57	41.66	-30.95	44.28	54.00	9.72	Horizontal
2	6268.0833	40.11	35.04	-16.97	58.18	68.20	10.02	Horizontal
3	7873.1	49.04	37.05	-41.37	44.72	68.20	23.48	Horizontal
4	10644.9833	46.56	38.87	-36.32	49.11	74.00	24.89	Horizontal
5	13886.0667	42.77	40.34	-33.99	49.12	68.20	19.08	Horizontal
6	17949.0167	40.71	41.55	-31.03	51.23	74.00	22.77	Horizontal



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11a_TX_CH_64_Horizontal



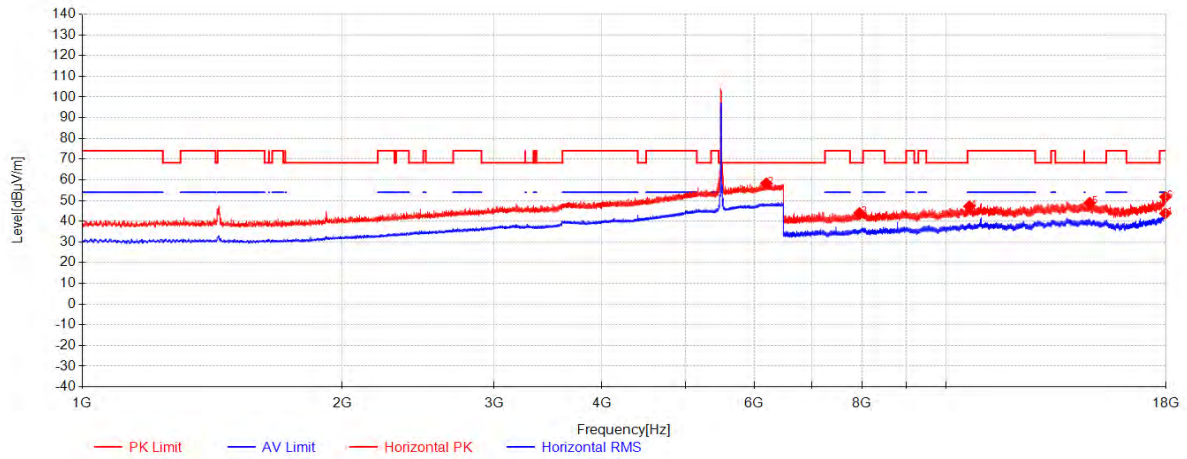
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17996.1667	33.21	41.69	-30.94	43.96	54.00	10.04	Vertical
2	6148.9167	40.38	34.80	-16.74	58.43	68.20	9.77	Vertical
3	7508.9333	49.73	36.32	-42.02	44.03	74.00	29.97	Vertical
4	10632.7167	48.24	38.86	-36.41	50.68	74.00	23.32	Vertical
5	13655.6833	42.89	40.23	-34.78	48.34	68.20	19.86	Vertical
6	17988.5	41.23	41.67	-30.95	51.94	74.00	22.06	Vertical



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11a_TX_CH_100_Horizontal



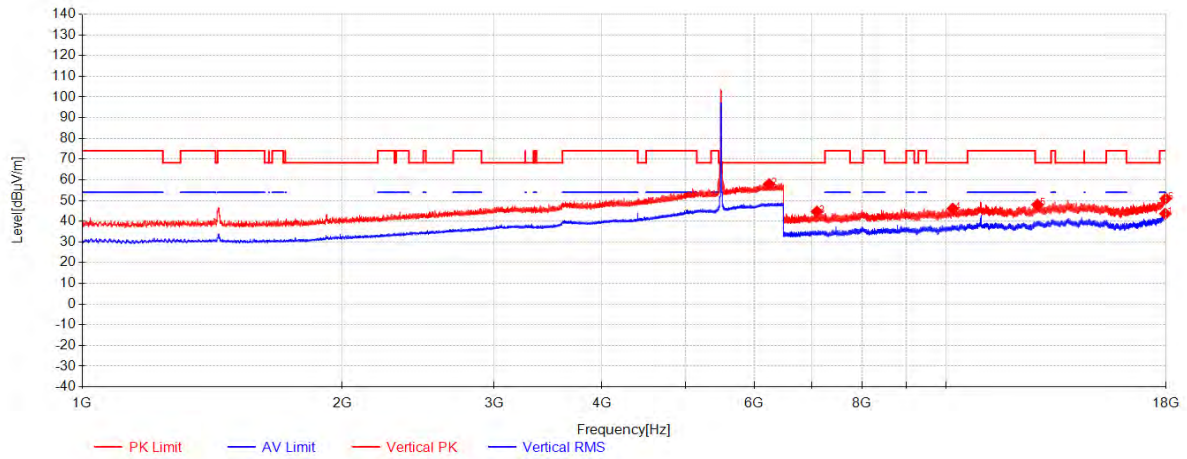
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17971.25	33.15	41.62	-30.99	43.78	54.00	10.22	Horizontal
2	6197.9583	40.20	34.90	-16.81	58.29	68.20	9.91	Horizontal
3	7949.3833	48.12	37.20	-41.34	43.98	68.20	24.22	Horizontal
4	10654.1833	44.54	38.89	-36.25	47.18	74.00	26.82	Horizontal
5	14684.1667	42.78	39.99	-33.94	48.83	68.20	19.37	Horizontal
6	17970.8667	41.12	41.62	-30.99	51.75	74.00	22.25	Horizontal



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11a_TX_CH_100_Vertical



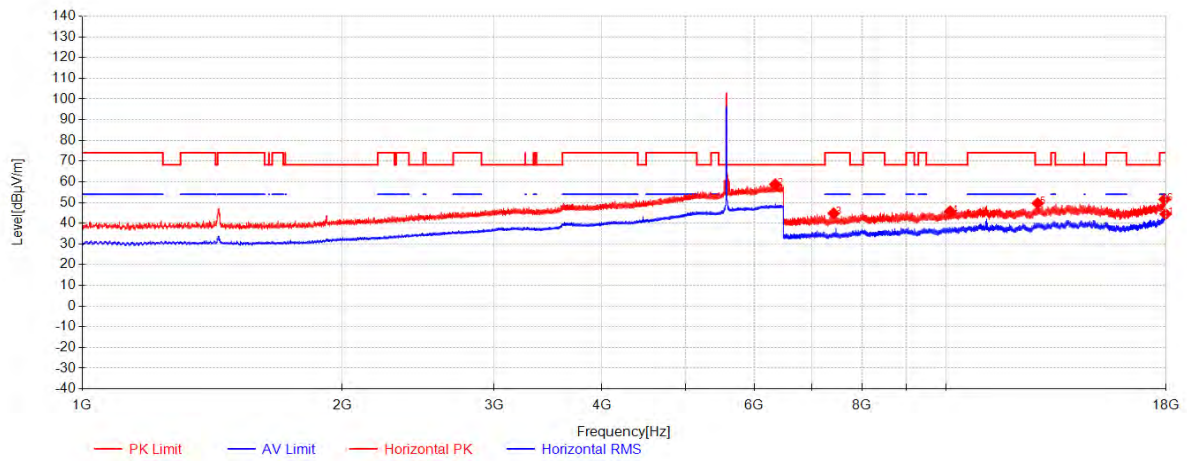
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17964.35	33.05	41.60	-31.00	43.65	54.00	10.35	Vertical
2	6246.0833	39.84	34.99	-16.92	57.92	68.20	10.28	Vertical
3	7096.0833	50.84	36.30	-42.49	44.65	68.20	23.55	Vertical
4	10191.1167	44.09	38.33	-36.34	46.08	68.20	22.12	Vertical
5	12775.1667	43.08	39.63	-34.69	48.02	68.20	20.18	Vertical
6	17991.1833	40.24	41.67	-30.95	50.97	74.00	23.03	Vertical



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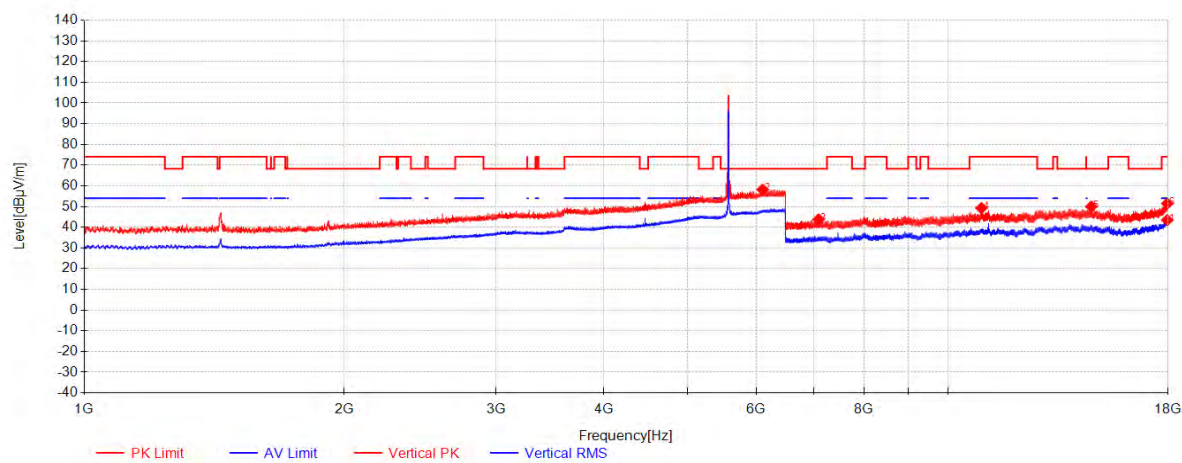
11a_TX_CH_116_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17980.8333	33.75	41.64	-30.97	44.43	54.00	9.57	Horizontal
2	6348.2917	40.40	35.20	-16.82	58.78	68.20	9.42	Horizontal
3	7419.2333	50.49	36.30	-42.03	44.76	74.00	29.24	Horizontal
4	10120.2	44.71	38.24	-37.23	45.73	68.20	22.47	Horizontal
5	12782.45	44.72	39.64	-34.72	49.64	68.20	18.56	Horizontal
6	17935.9833	41.07	41.51	-31.06	51.53	74.00	22.47	Horizontal



11a_TX_CH_116_Vertical



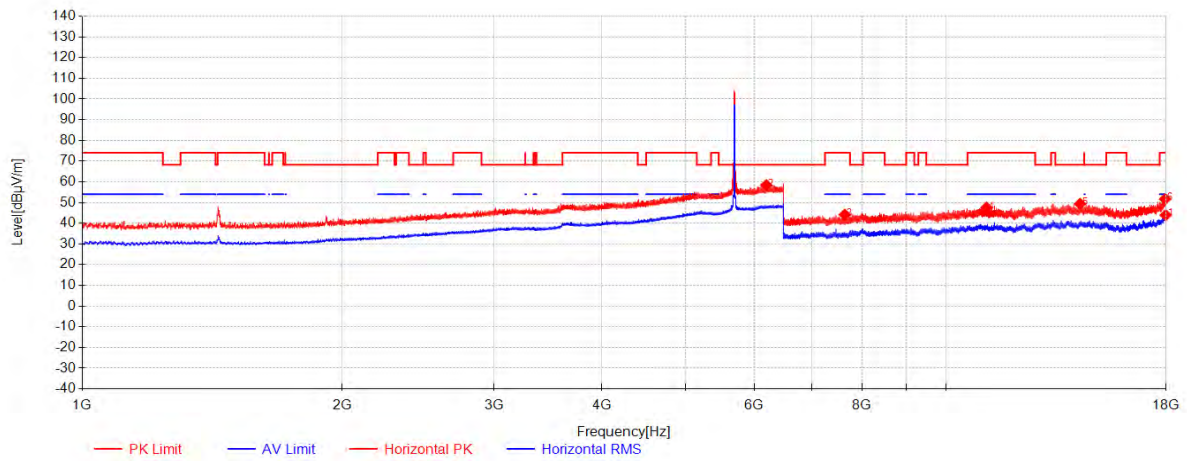
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	17962.4333	32.89	41.59	-31.01	43.48	54.00	10.52	Vertical
2	6106.2917	40.16	34.71	-16.69	58.18	68.20	10.02	Vertical
3	7089.5667	50.02	36.30	-42.50	43.82	68.20	24.38	Vertical
4	10943.2167	46.13	39.23	-36.11	49.25	74.00	24.75	Vertical
5	14668.0667	44.04	40.00	-34.06	49.98	68.20	18.22	Vertical
6	17965.5	40.84	41.60	-31.00	51.44	74.00	22.56	Vertical



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11a_TX_CH_140_Horizontal



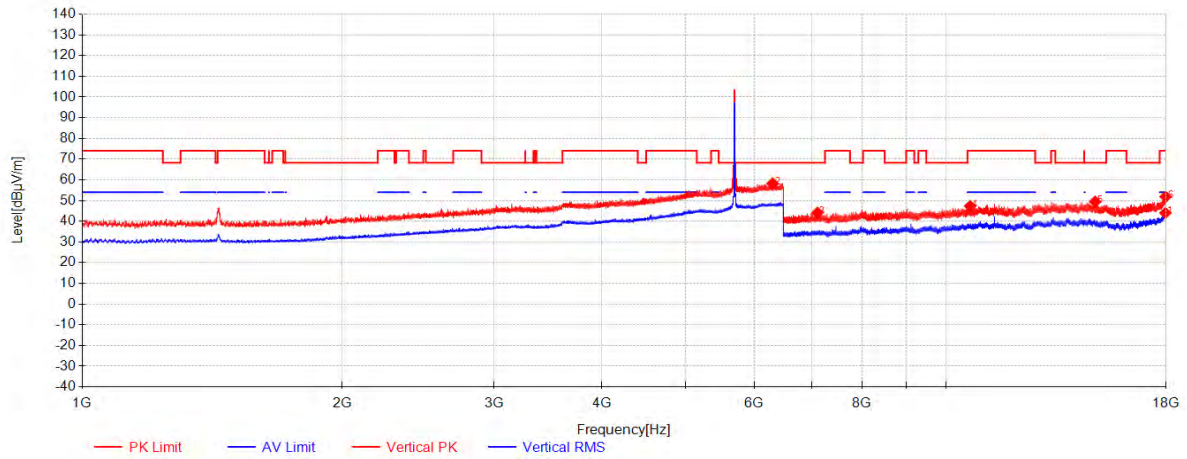
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17985.05	33.22	41.66	-30.96	43.92	54.00	10.08	Horizontal
2	6197.5	40.35	34.89	-16.81	58.44	68.20	9.76	Horizontal
3	7642.3333	49.33	36.58	-41.76	44.15	74.00	29.85	Horizontal
4	11151.3667	43.74	39.21	-35.40	47.55	74.00	26.45	Horizontal
5	14310.8	44.00	40.21	-34.84	49.37	68.20	18.83	Horizontal
6	17958.2167	41.11	41.58	-31.01	51.68	74.00	22.32	Horizontal



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11a_TX_CH_140_Veritical



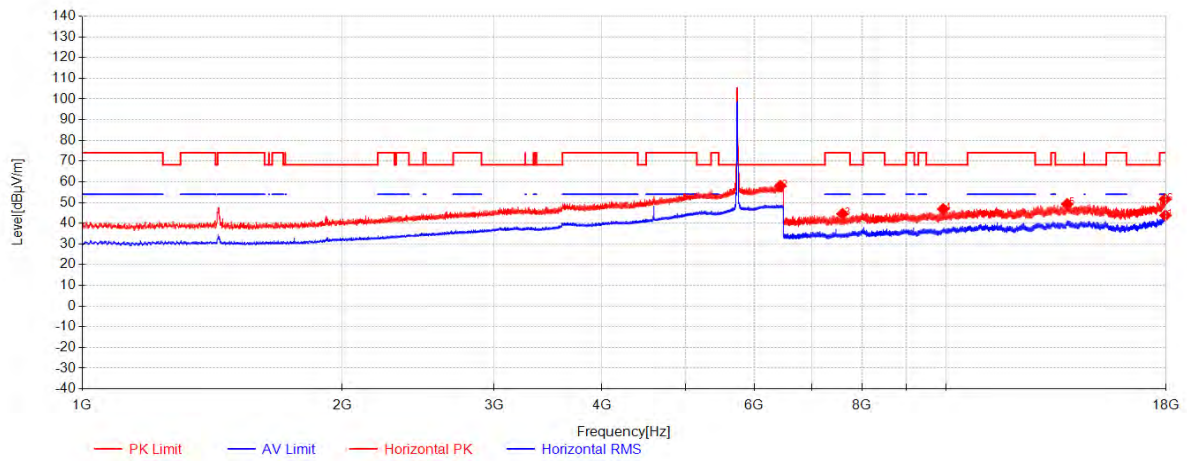
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17971.25	33.38	41.62	-30.99	44.01	54.00	9.99	Vertical
2	6304.2917	40.17	35.11	-17.02	58.26	68.20	9.94	Vertical
3	7105.6667	50.29	36.30	-42.45	44.14	68.20	24.06	Vertical
4	10677.95	44.46	38.91	-36.06	47.31	74.00	26.69	Vertical
5	14899.9833	43.02	39.86	-33.40	49.48	68.20	18.72	Vertical
6	17982.3667	41.16	41.65	-30.97	51.84	74.00	22.16	Vertical



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11a_TX_CH_149_Horizontal



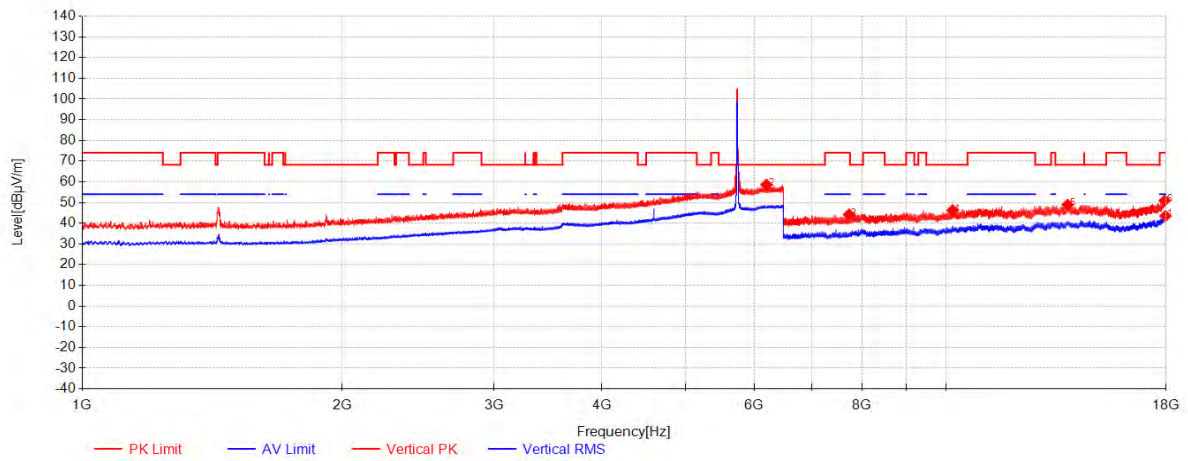
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17973.1667	33.14	41.62	-30.98	43.78	54.00	10.22	Horizontal
2	6434	39.37	35.37	-16.64	58.10	68.20	10.10	Horizontal
3	7595.5667	49.85	36.49	-41.81	44.53	74.00	29.47	Horizontal
4	9934.6667	46.23	38.09	-37.46	46.87	68.20	21.33	Horizontal
5	13828.95	43.69	40.31	-34.76	49.25	68.20	18.95	Horizontal
6	17954.7667	41.03	41.57	-31.02	51.58	74.00	22.42	Horizontal



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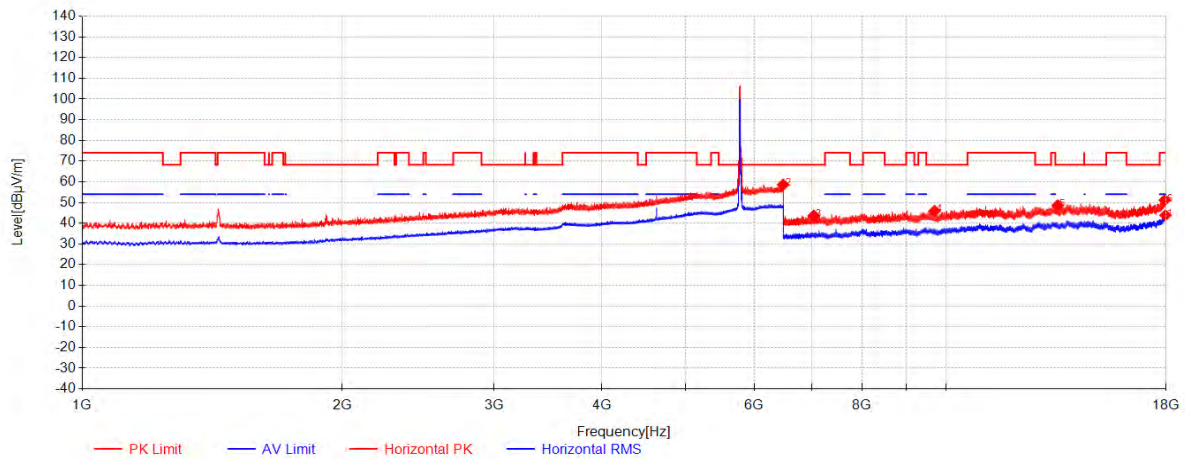
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11a_TX_CH_149_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17972.0167	32.91	41.62	-30.99	43.54	54.00	10.46	Vertical
2	6200.25	40.52	34.90	-16.81	58.61	68.20	9.59	Vertical
3	7731.2667	48.92	36.76	-41.49	44.19	74.00	29.81	Vertical
4	10188.4333	44.32	38.33	-36.37	46.27	68.20	21.93	Vertical
5	13847.35	43.12	40.32	-34.51	48.93	68.20	19.27	Vertical
6	17937.5167	40.47	41.52	-31.05	50.93	74.00	23.07	Vertical

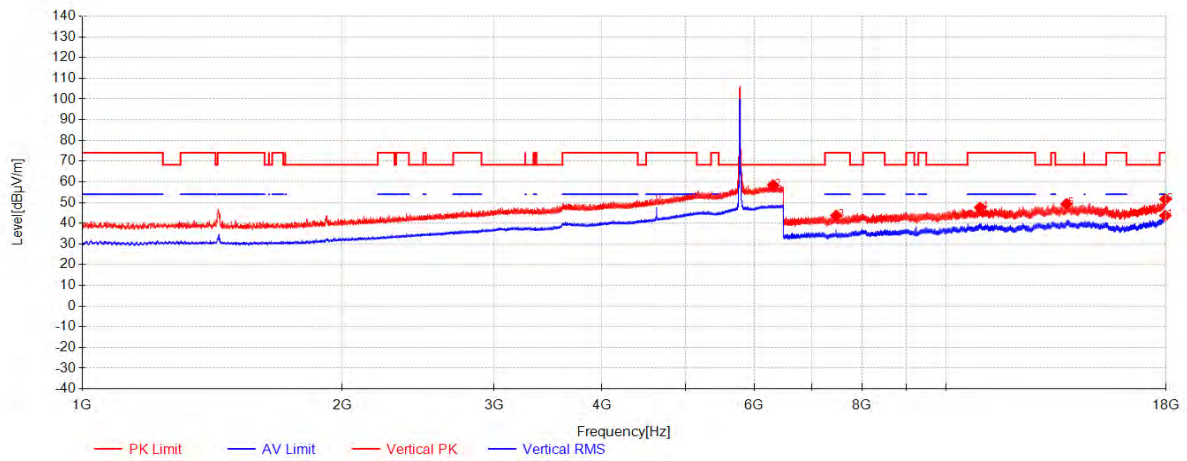
11a_TX_CH_157_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17973.9333	33.23	41.62	-30.98	43.87	54.00	10.13	Horizontal
2	6484.4167	39.86	35.47	-16.72	58.61	68.20	9.59	Horizontal
3	7037.05	49.93	36.30	-42.57	43.66	68.20	24.54	Horizontal
4	9710.0333	45.53	38.07	-37.66	45.94	68.20	22.26	Horizontal
5	13481.65	43.52	40.14	-35.02	48.64	68.20	19.56	Horizontal
6	17942.8833	40.70	41.53	-31.04	51.19	74.00	22.81	Horizontal



11a_TX_CH_157_Vertical



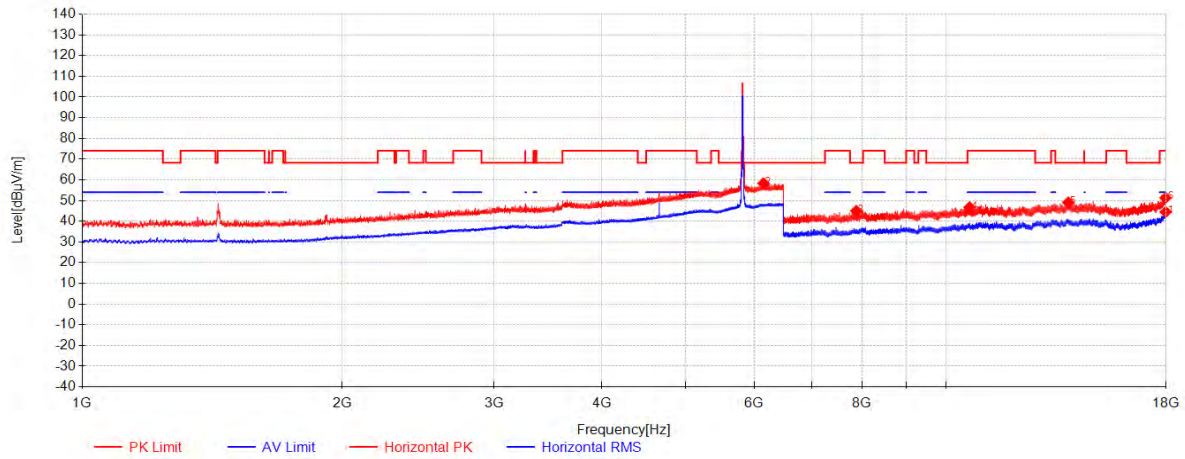
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17967.8	33.06	41.61	-30.99	43.67	54.00	10.33	Vertical
2	6311.625	40.26	35.12	-16.99	58.40	68.20	9.80	Vertical
3	7469.8333	49.44	36.30	-42.04	43.70	74.00	30.30	Vertical
4	10962.7667	44.41	39.26	-36.07	47.60	74.00	26.40	Vertical
5	13805.95	44.05	40.30	-35.07	49.28	68.20	18.92	Vertical
6	17973.9333	40.97	41.62	-30.98	51.61	74.00	22.39	Vertical



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11a_TX_CH_165_Horizontal



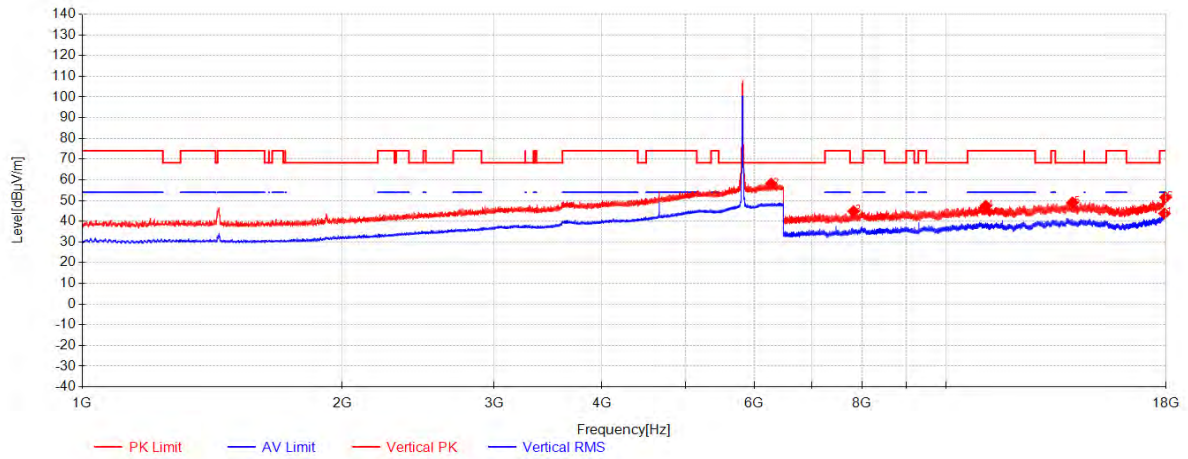
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17985.05	33.79	41.66	-30.96	44.49	54.00	9.51	Horizontal
2	6153.0417	40.27	34.81	-16.75	58.33	68.20	9.87	Horizontal
3	7880.3833	49.31	37.06	-41.41	44.96	68.20	23.24	Horizontal
4	10661.0833	44.02	38.89	-36.19	46.72	74.00	27.28	Horizontal
5	13869.5833	42.95	40.33	-34.21	49.07	68.20	19.13	Horizontal
6	17977.3833	40.63	41.63	-30.98	51.29	74.00	22.71	Horizontal



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11a_TX_CH_165_Veritical



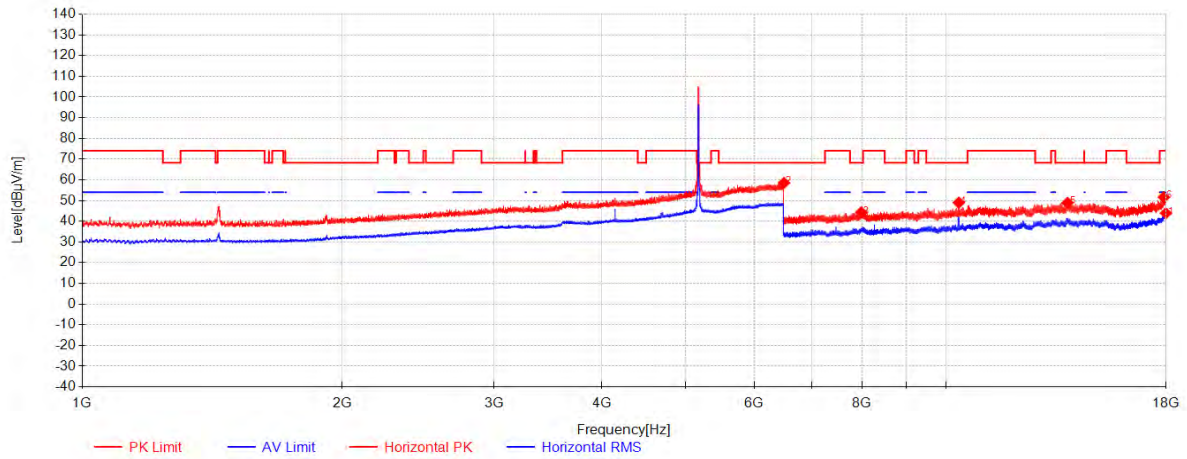
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17925.25	33.32	41.48	-31.08	43.72	54.00	10.28	Vertical
2	6280.4583	40.04	35.06	-17.00	58.11	68.20	10.09	Vertical
3	7822.5	48.99	36.94	-41.13	44.81	68.20	23.39	Vertical
4	11131.4333	43.70	39.22	-35.53	47.39	74.00	26.61	Vertical
5	14030.9667	43.96	40.38	-35.28	49.06	68.20	19.14	Vertical
6	17973.9333	40.90	41.62	-30.98	51.54	74.00	22.46	Vertical



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11ax(HE20)_TX_CH_36_Horizontal



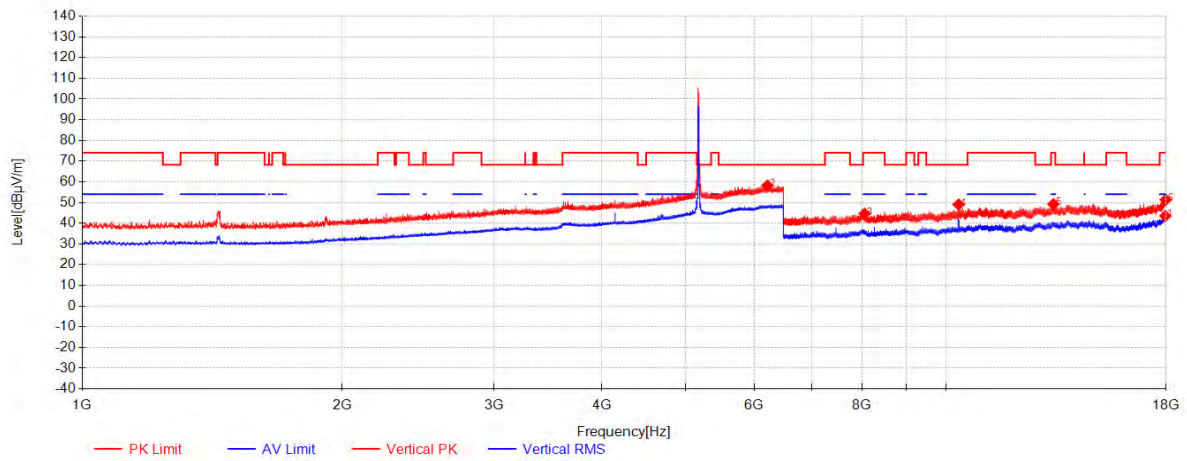
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17991.95	33.16	41.68	-30.95	43.89	54.00	10.11	Horizontal
2	6498.1667	39.79	35.50	-16.75	58.54	68.20	9.66	Horizontal
3	7988.1	48.24	37.28	-41.22	44.30	68.20	23.90	Horizontal
4	10357.8667	47.34	38.53	-36.86	49.01	68.20	19.19	Horizontal
5	13840.0667	43.18	40.32	-34.61	48.89	68.20	19.31	Horizontal
6	17899.1833	41.36	41.41	-31.14	51.63	74.00	22.37	Horizontal



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11ax(HE20)_TX_CH_36_Verical



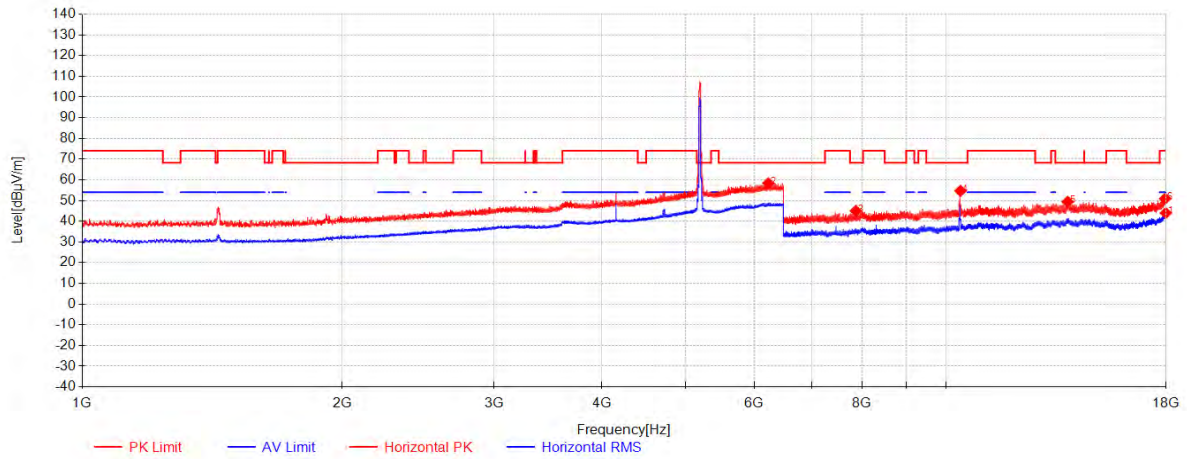
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17967.0333	32.92	41.60	-31.00	43.53	54.00	10.47	Vertical
2	6219.9583	40.13	34.94	-16.86	58.21	68.20	9.99	Vertical
3	8056.3333	48.42	37.34	-41.10	44.66	74.00	29.34	Vertical
4	10353.2667	47.42	38.52	-36.89	49.05	68.20	19.15	Vertical
5	13331.3833	43.75	40.07	-34.56	49.25	74.00	24.75	Vertical
6	17989.2667	40.64	41.67	-30.95	51.36	74.00	22.64	Vertical



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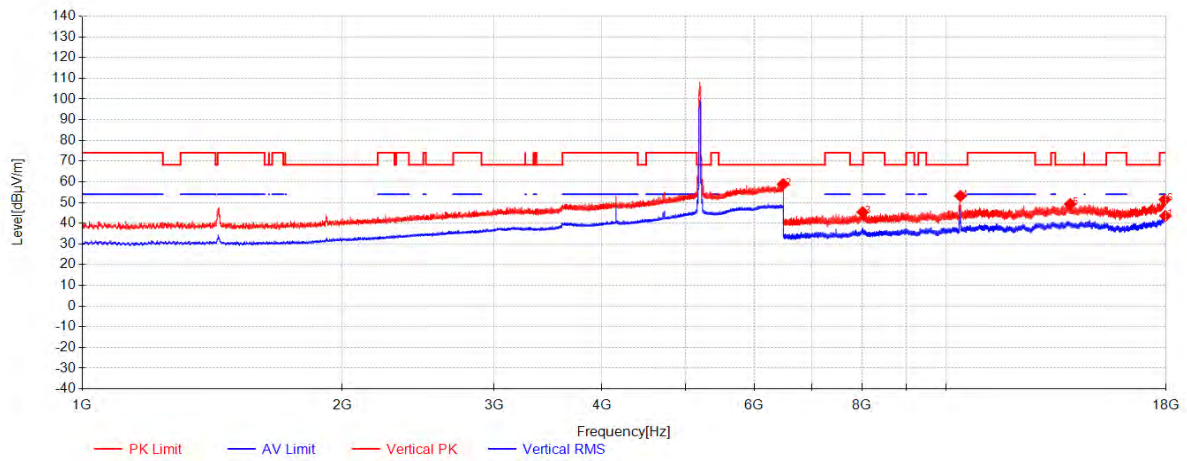
11ax(HE20)_TX_CH_40_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17990.0333	33.24	41.67	-30.95	43.96	54.00	10.04	Horizontal
2	6233.25	40.27	34.97	-16.89	58.35	68.20	9.85	Horizontal
3	7872.3333	49.32	37.04	-41.37	45.00	68.20	23.20	Horizontal
4	10405.4	52.66	38.59	-36.60	54.65	68.20	13.55	Horizontal
5	13846.2	43.59	40.32	-34.53	49.39	68.20	18.81	Horizontal
6	17957.0667	40.34	41.58	-31.02	50.90	74.00	23.10	Horizontal



11ax(HE20)_TX_CH_40_Verical



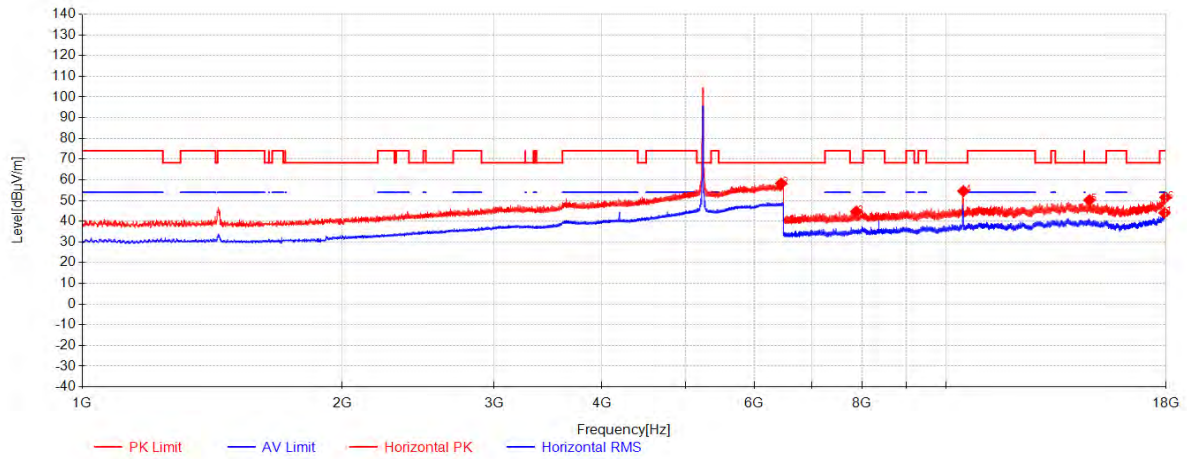
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17970.1	32.92	41.61	-30.99	43.54	54.00	10.46	Vertical
2	6484.4167	40.17	35.47	-16.72	58.92	68.20	9.28	Vertical
3	8014.9333	49.20	37.31	-41.16	45.35	68.20	22.85	Vertical
4	10403.1	51.17	38.58	-36.60	53.15	68.20	15.05	Vertical
5	13941.65	43.37	40.37	-34.52	49.22	68.20	18.98	Vertical
6	17939.8167	40.92	41.53	-31.05	51.40	74.00	22.60	Vertical



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11ax(HE20)_TX_CH_48_Horizontal



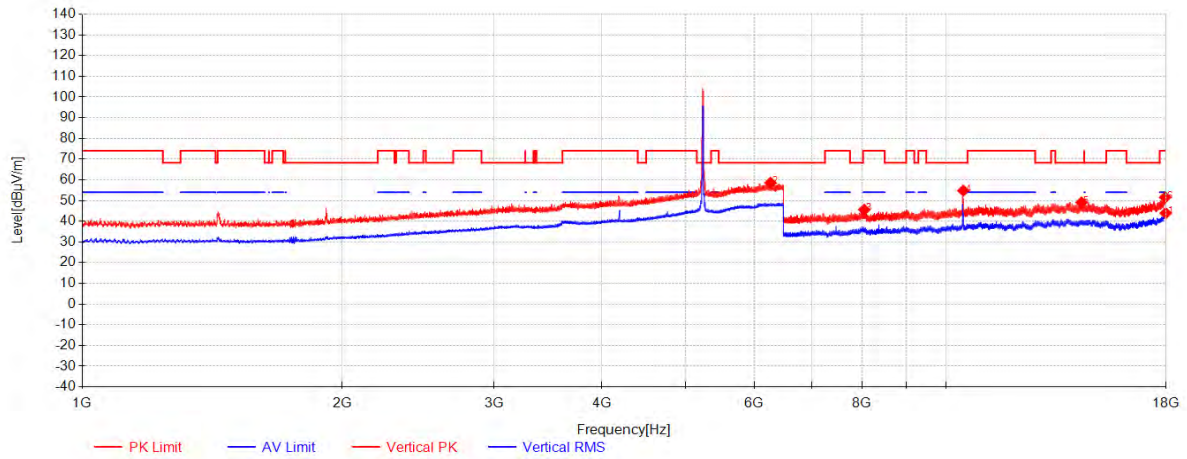
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17931.7667	33.60	41.50	-31.07	44.04	54.00	9.96	Horizontal
2	6450.5	39.55	35.40	-16.67	58.29	68.20	9.91	Horizontal
3	7880.7667	49.05	37.06	-41.41	44.70	68.20	23.50	Horizontal
4	10486.2833	52.32	38.68	-36.45	54.55	68.20	13.65	Horizontal
5	14677.2667	44.19	39.99	-33.99	50.19	68.20	18.01	Horizontal
6	17975.0833	40.88	41.63	-30.98	51.53	74.00	22.47	Horizontal



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11ax(HE20)_TX_CH_48_Verical



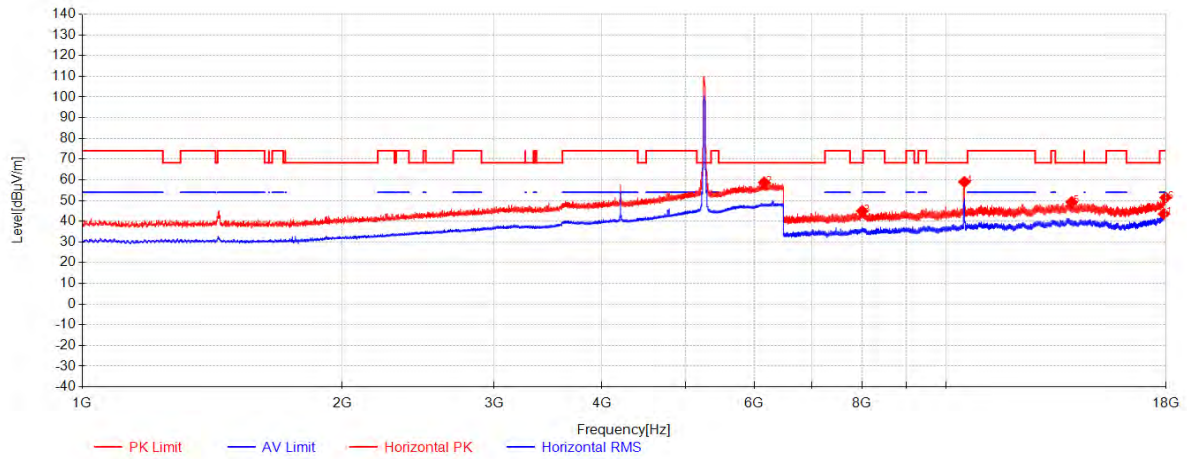
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17985.05	33.21	41.66	-30.96	43.91	54.00	10.09	Vertical
2	6269.4583	40.49	35.04	-16.97	58.56	68.20	9.64	Vertical
3	8049.8167	49.33	37.33	-41.11	45.56	74.00	28.44	Vertical
4	10483.2167	52.59	38.68	-36.46	54.81	68.20	13.39	Vertical
5	14368.3	43.05	40.18	-34.14	49.09	68.20	19.11	Vertical
6	17962.05	40.99	41.59	-31.01	51.57	74.00	22.43	Vertical



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11ax(HE20)_TX_CH_52_Horizontal



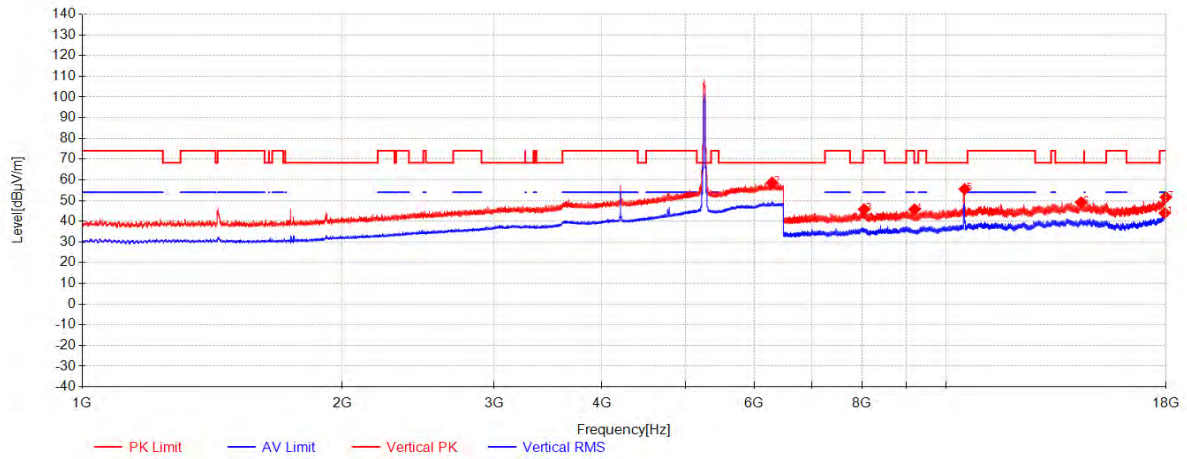
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17900.3333	33.29	41.41	-31.13	43.57	54.00	10.43	Horizontal
2	6164.0417	40.68	34.83	-16.76	58.74	68.20	9.46	Horizontal
3	8005.7333	48.77	37.30	-41.17	44.90	68.20	23.30	Horizontal
4	10515.0333	56.70	38.72	-36.47	58.95	68.20	9.25	Horizontal
5	13998	44.35	40.40	-35.49	49.26	68.20	18.94	Horizontal
6	17981.2167	40.73	41.65	-30.97	51.41	74.00	22.59	Horizontal



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11ax(HE20)_TX_CH_52_Vertical



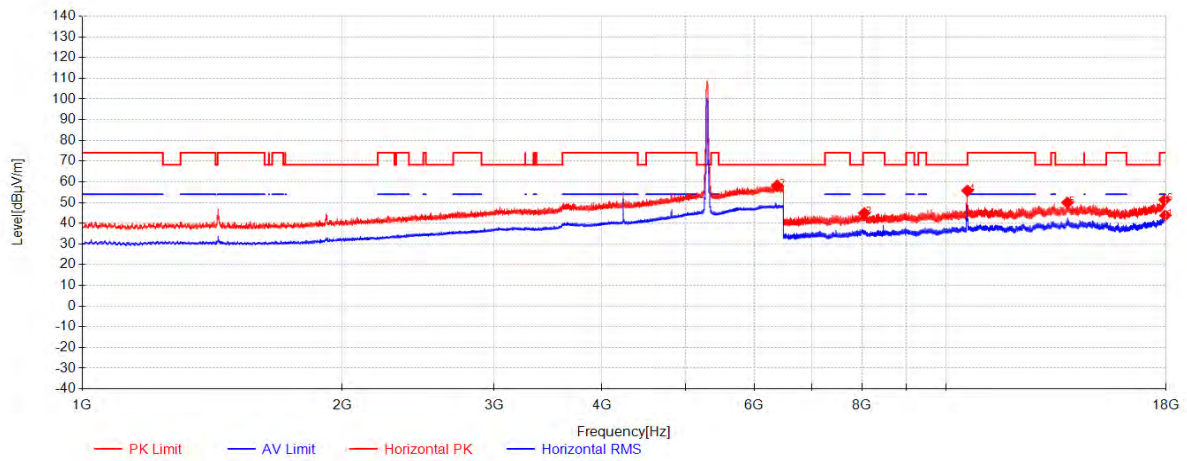
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17941.35	33.44	41.53	-31.05	43.92	54.00	10.08	Vertical
2	6294.6667	40.55	35.09	-17.03	58.61	68.20	9.59	Vertical
3	8045.6	49.52	37.33	-41.11	45.74	74.00	28.26	Vertical
4	9204.4167	46.78	38.02	-39.08	45.72	68.20	22.48	Vertical
5	10520.0167	53.27	38.72	-36.48	55.52	68.20	12.68	Vertical
6	14351.05	43.24	40.19	-34.35	49.08	68.20	19.12	Vertical
7	17994.25	40.86	41.68	-30.94	51.60	74.00	22.40	Vertical



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11ax(HE20)_TX_CH_60_Horizontal



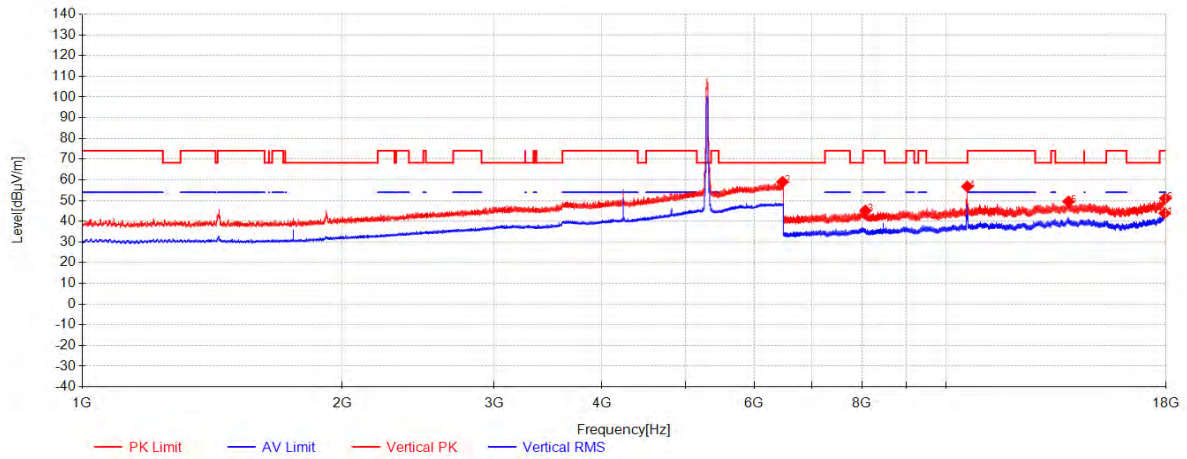
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17970.4833	33.18	41.61	-30.99	43.81	54.00	10.19	Horizontal
2	6380.8333	39.70	35.26	-16.67	58.29	68.20	9.91	Horizontal
3	8050.2	48.64	37.34	-41.10	44.87	74.00	29.13	Horizontal
4	10598.9833	53.59	38.82	-36.67	55.74	68.20	12.46	Horizontal
5	13838.9167	44.30	40.32	-34.62	49.99	68.20	18.21	Horizontal
6	17935.6	40.85	41.51	-31.06	51.30	74.00	22.70	Horizontal



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11ax(HE20)_TX_CH_60_Verical



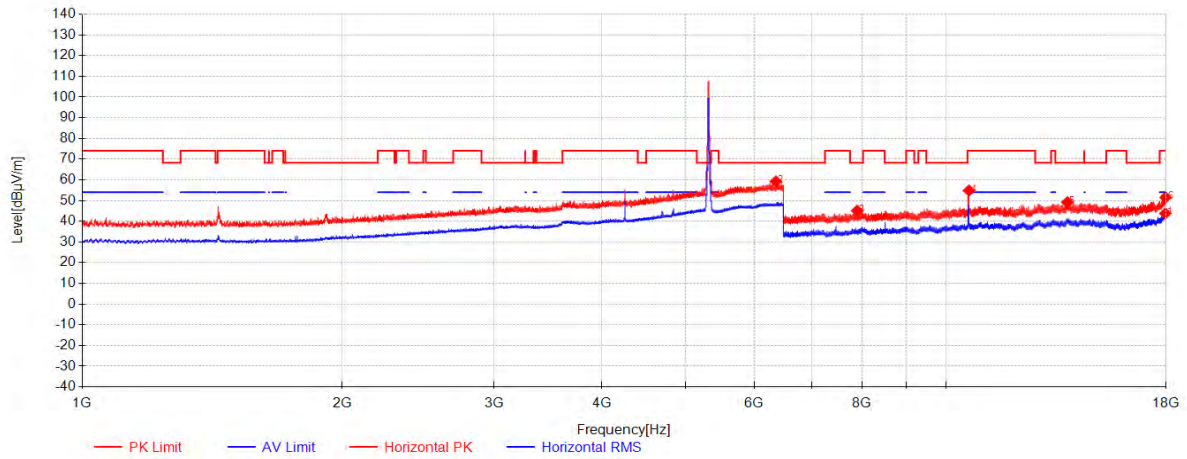
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17933.6833	33.41	41.51	-31.06	43.86	54.00	10.14	Vertical
2	6472.5	40.25	35.44	-16.70	58.99	68.20	9.21	Vertical
3	8075.1167	48.85	37.35	-41.07	45.14	74.00	28.86	Vertical
4	10593.2333	54.59	38.81	-36.65	56.75	68.20	11.45	Vertical
5	13877.6333	43.28	40.34	-34.10	49.52	68.20	18.68	Vertical
6	17967.8	40.46	41.61	-30.99	51.07	74.00	22.93	Vertical



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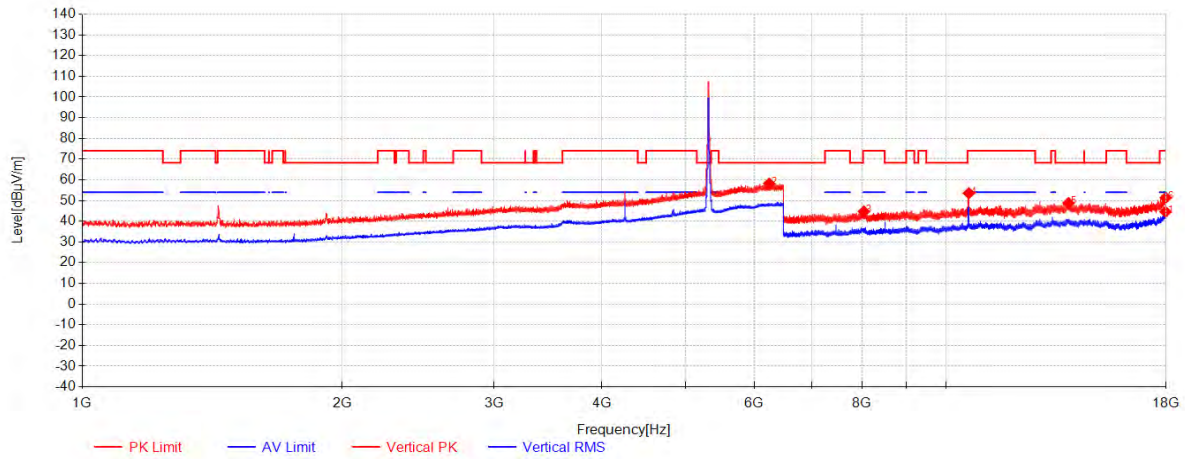
11ax(HE20)_TX_CH_64_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17968.95	33.15	41.61	-30.99	43.77	54.00	10.23	Horizontal
2	6359.2917	40.79	35.22	-16.77	59.24	68.20	8.96	Horizontal
3	7899.9333	49.48	37.10	-41.50	45.08	68.20	23.12	Horizontal
4	10641.9167	52.29	38.87	-36.34	54.82	74.00	19.18	Horizontal
5	13838.15	43.50	40.32	-34.63	49.18	68.20	19.02	Horizontal
6	17980.45	40.81	41.64	-30.97	51.48	74.00	22.52	Horizontal



11ax(HE20)_TX_CH_64_Verical



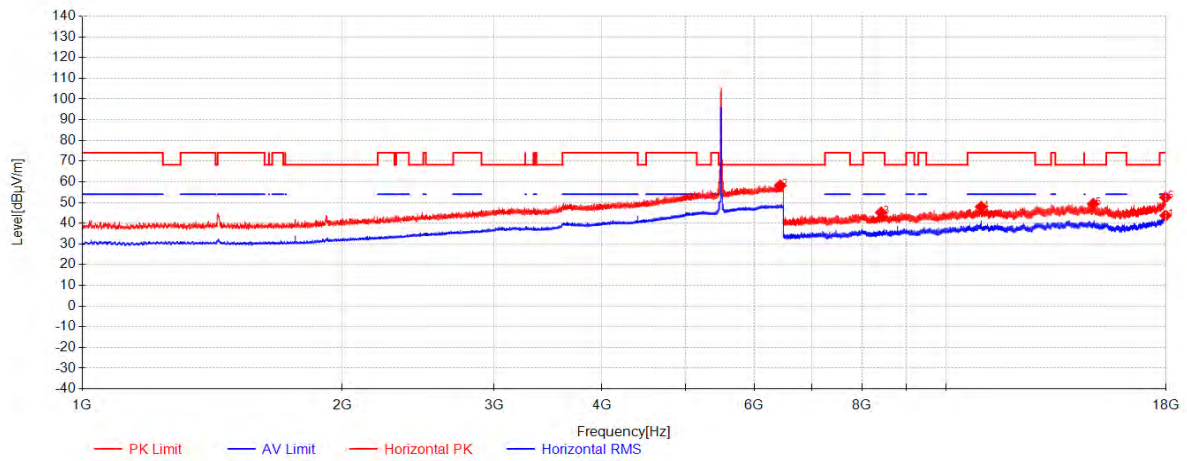
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17980.0667	33.90	41.64	-30.97	44.57	54.00	9.43	Vertical
2	6246.5417	40.11	34.99	-16.92	58.19	68.20	10.01	Vertical
3	8042.5333	48.51	37.33	-41.12	44.72	74.00	29.28	Vertical
4	10639.6167	51.03	38.87	-36.36	53.54	74.00	20.46	Vertical
5	13878.0167	42.56	40.34	-34.10	48.80	68.20	19.40	Vertical
6	17990.8	40.64	41.67	-30.95	51.36	74.00	22.64	Vertical



Report No.: KSCR250900195403

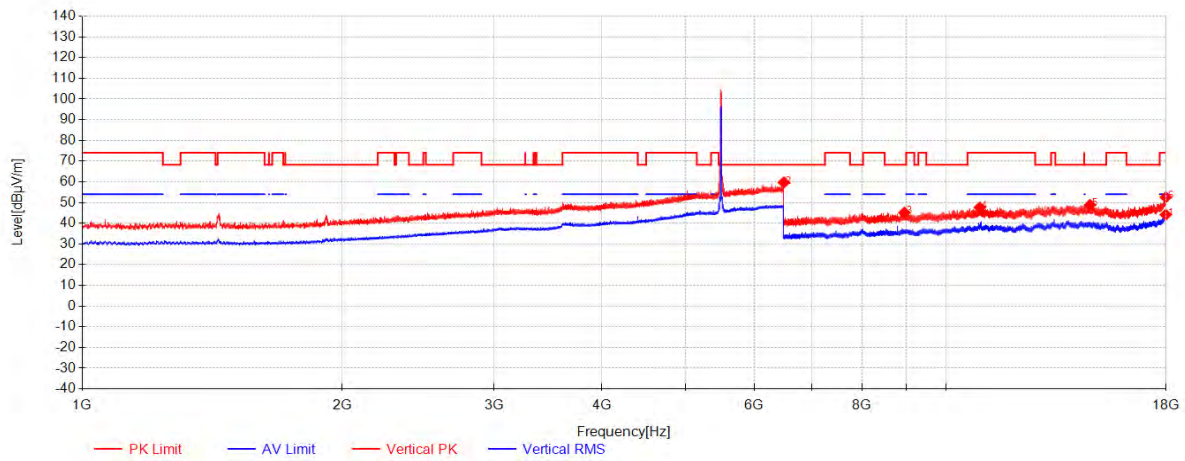
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11ax(HE20)_TX_CH_100_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17983.5167	33.06	41.65	-30.96	43.75	54.00	10.25	Horizontal
2	6434	39.55	35.37	-16.64	58.28	68.20	9.92	Horizontal
3	8420.5	48.28	37.59	-40.68	45.19	74.00	28.81	Horizontal
4	10996.1167	44.60	39.30	-36.00	47.90	74.00	26.10	Horizontal
5	14823.7	43.53	39.91	-34.09	49.35	68.20	18.85	Horizontal
6	17975.0833	41.85	41.63	-30.98	52.50	74.00	21.50	Horizontal

11ax(HE20)_TX_CH_100_Verical



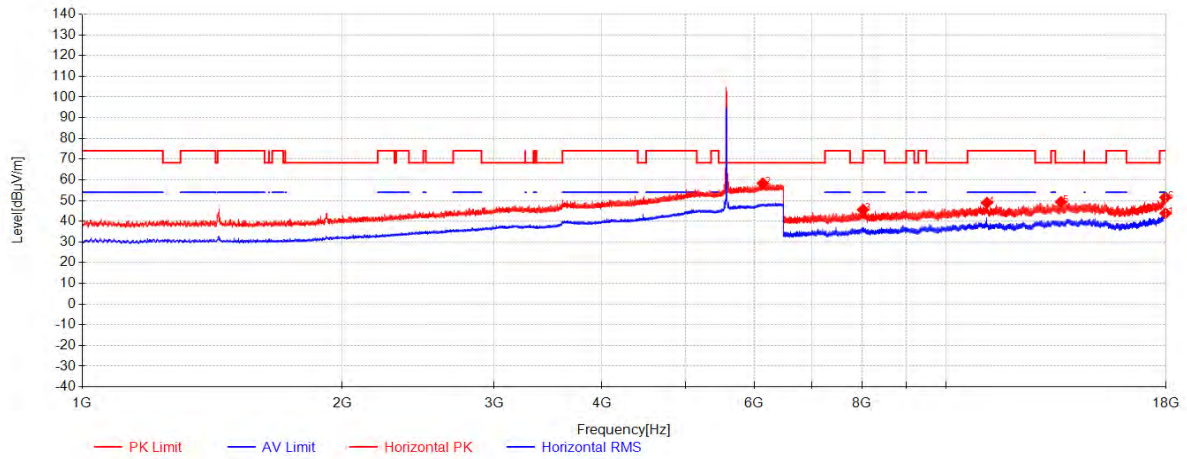
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17988.8833	33.41	41.67	-30.95	44.13	54.00	9.87	Vertical
2	6496.3333	40.97	35.49	-16.74	59.72	68.20	8.48	Vertical
3	8959.0833	46.56	37.97	-39.41	45.12	68.20	23.08	Vertical
4	10957.4	44.44	39.25	-36.08	47.61	74.00	26.39	Vertical
5	14699.1167	42.69	39.98	-33.84	48.83	68.20	19.37	Vertical
6	17990.8	41.84	41.67	-30.95	52.56	74.00	21.44	Vertical



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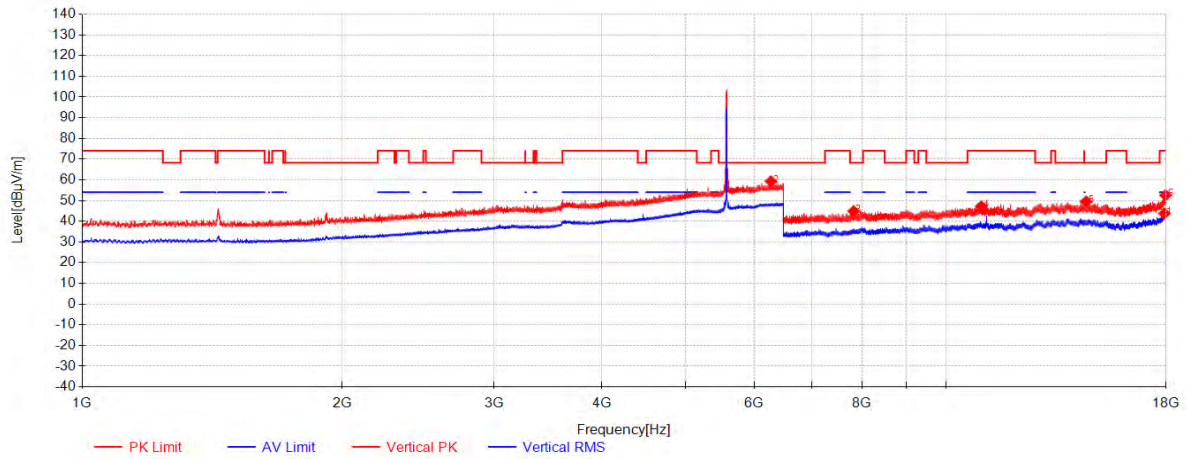
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11ax(HE20)_TX_CH_116_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17974.3167	33.22	41.63	-30.98	43.86	54.00	10.14	Horizontal
2	6142.0417	40.26	34.78	-16.73	58.31	68.20	9.89	Horizontal
3	8024.5167	49.37	37.32	-41.14	45.54	68.20	22.66	Horizontal
4	11163.6333	45.01	39.20	-35.31	48.90	74.00	25.10	Horizontal
5	13603.1667	43.20	40.20	-34.08	49.32	68.20	18.88	Horizontal
6	17974.7	40.84	41.63	-30.98	51.49	74.00	22.51	Horizontal

11ax(HE20)_TX_CH_116_Verical



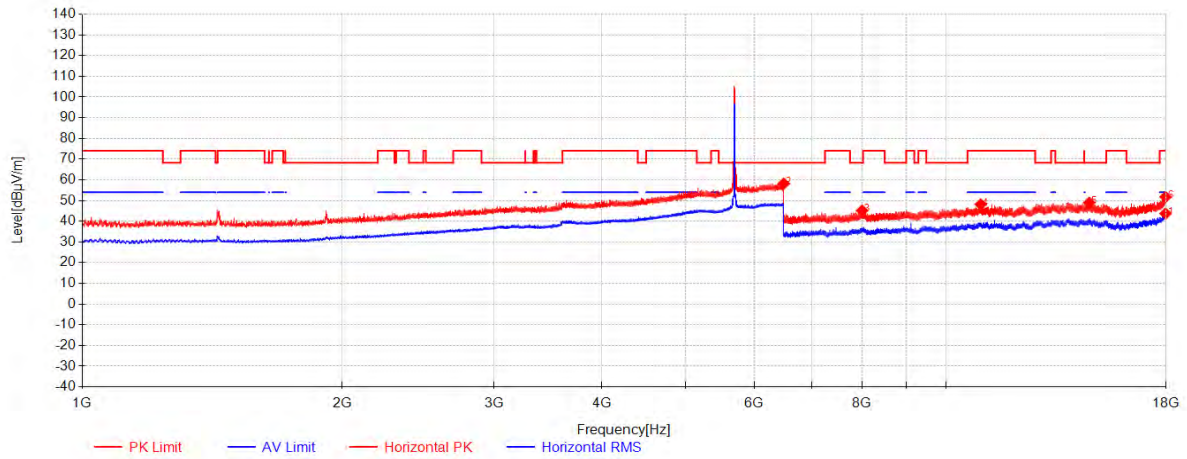
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17922.95	33.36	41.48	-31.08	43.75	54.00	10.25	Vertical
2	6275.4167	41.21	35.05	-16.98	59.28	68.20	8.92	Vertical
3	7825.1833	49.05	36.95	-41.14	44.86	68.20	23.34	Vertical
4	10996.8833	43.88	39.30	-36.00	47.18	74.00	26.82	Vertical
5	14546.1667	44.15	40.07	-34.70	49.53	68.20	18.67	Vertical
6	17975.4667	41.90	41.63	-30.98	52.55	74.00	21.45	Vertical



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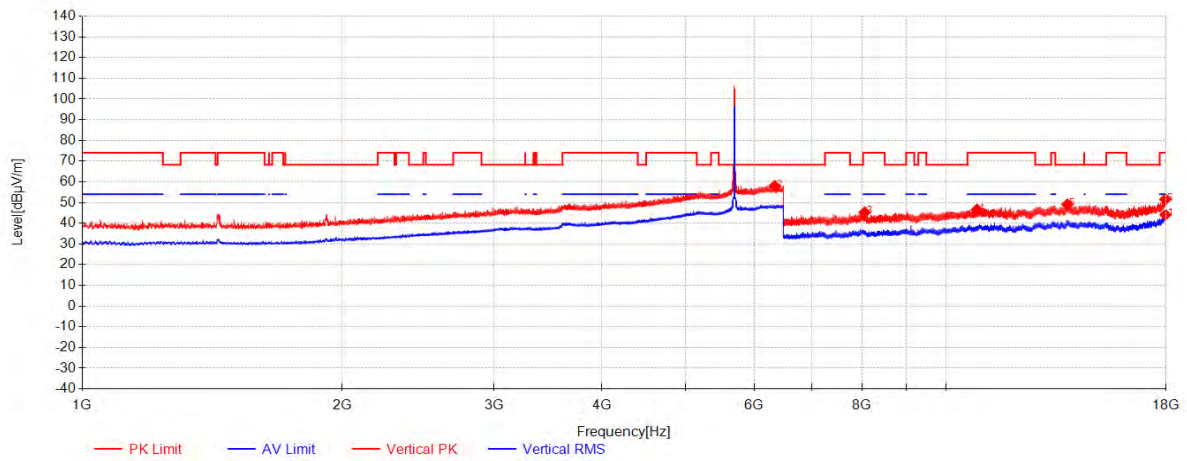
11ax(HE20)_TX_CH_140_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17978.9167	33.07	41.64	-30.97	43.74	54.00	10.26	Horizontal
2	6492.6667	39.43	35.49	-16.74	58.18	68.20	10.02	Horizontal
3	8003.8167	49.04	37.30	-41.17	45.17	68.20	23.03	Horizontal
4	10981.9333	44.93	39.28	-36.03	48.18	74.00	25.82	Horizontal
5	14668.0667	43.02	40.00	-34.06	48.96	68.20	19.24	Horizontal
6	17981.6	41.08	41.65	-30.97	51.76	74.00	22.24	Horizontal



11ax(HE20)_TX_CH_140_Verical



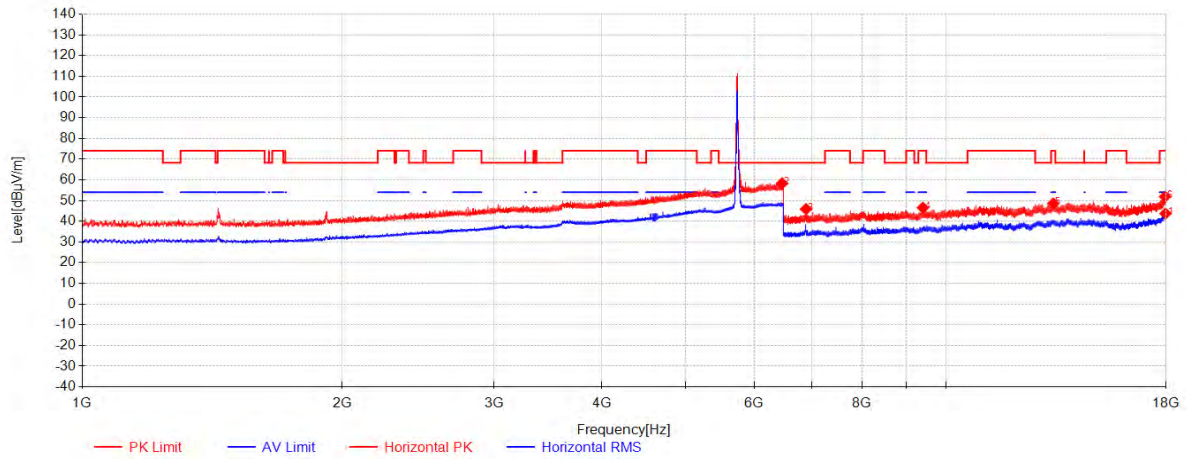
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17976.2333	33.38	41.63	-30.98	44.03	54.00	9.97	Vertical
2	6339.125	39.68	35.18	-16.86	58.00	68.20	10.20	Vertical
3	8060.55	48.98	37.34	-41.09	45.23	74.00	28.77	Vertical
4	10870.7667	43.80	39.14	-36.37	46.57	74.00	27.43	Vertical
5	13837	43.45	40.32	-34.65	49.12	68.20	19.08	Vertical
6	17967.4167	40.95	41.61	-31.00	51.56	74.00	22.44	Vertical



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11ax(HE20)_TX_CH_149_Horizontal



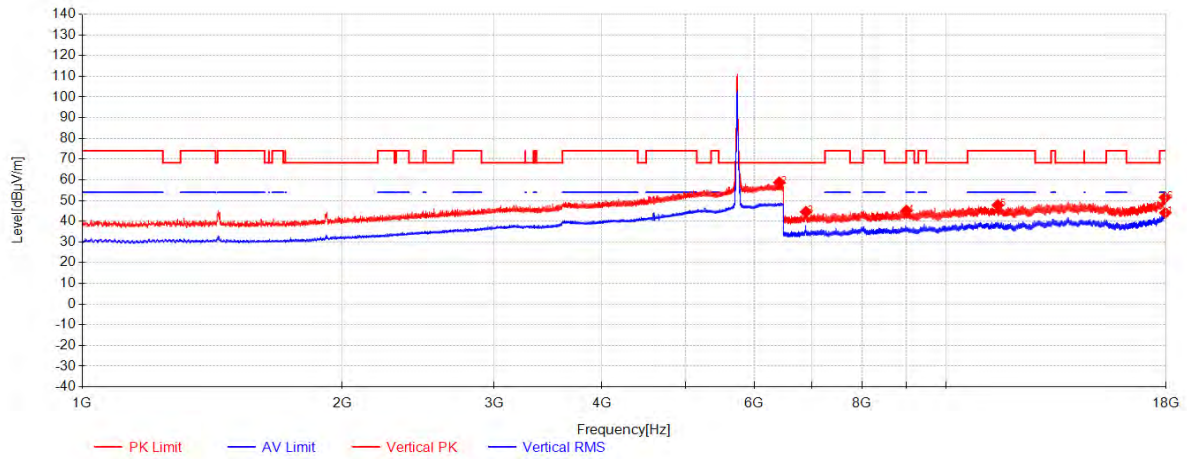
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17976.6167	33.08	41.63	-30.98	43.74	54.00	10.26	Horizontal
2	6465.1667	39.54	35.43	-16.69	58.28	68.20	9.92	Horizontal
3	6892.15	52.39	36.13	-42.65	45.87	68.20	22.33	Horizontal
4	9412.5667	47.08	38.04	-38.60	46.52	74.00	27.48	Horizontal
5	13327.1667	43.09	40.06	-34.57	48.58	74.00	25.42	Horizontal
6	17956.6833	41.31	41.57	-31.02	51.87	74.00	22.13	Horizontal



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11ax(HE20)_TX_CH_149_Vertical



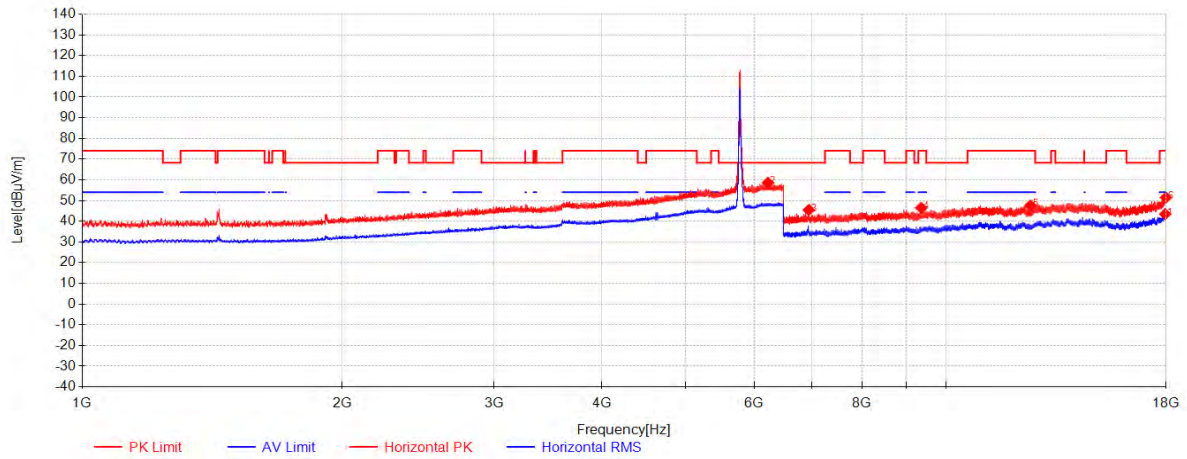
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17967.4167	33.46	41.61	-31.00	44.07	54.00	9.93	Vertical
2	6417.5	39.95	35.33	-16.61	58.68	68.20	9.52	Vertical
3	6891	51.02	36.13	-42.65	44.50	68.20	23.70	Vertical
4	9007.3833	46.36	38.00	-39.28	45.08	74.00	28.92	Vertical
5	11493.6833	44.63	39.00	-35.84	47.79	74.00	26.21	Vertical
6	17953.6167	40.93	41.57	-31.02	51.47	74.00	22.53	Vertical



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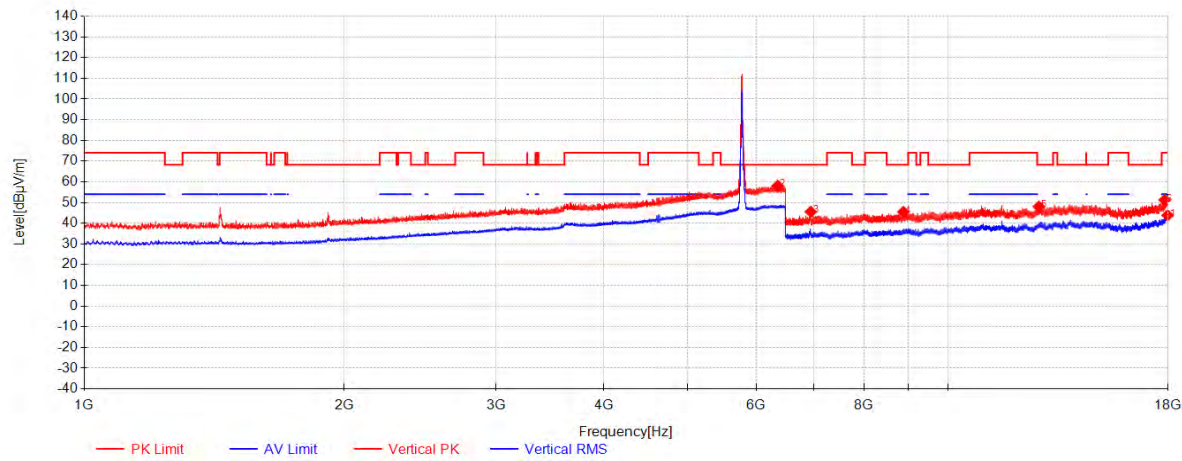
11ax(HE20)_TX_CH_157_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17960.1333	32.90	41.58	-31.01	43.47	54.00	10.53	Horizontal
2	6225.4583	40.51	34.95	-16.87	58.59	68.20	9.61	Horizontal
3	6942.3667	51.90	36.21	-42.63	45.48	68.20	22.72	Horizontal
4	9368.8667	47.22	38.04	-38.78	46.48	74.00	27.52	Horizontal
5	12540.1833	43.80	39.35	-35.54	47.61	74.00	26.39	Horizontal
6	17998.85	40.67	41.70	-30.93	51.43	74.00	22.57	Horizontal



11ax(HE20)_TX_CH_157_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17980.8333	33.19	41.64	-30.97	43.87	54.00	10.13	Vertical
2	6357	39.68	35.21	-16.78	58.12	68.20	10.08	Vertical
3	6941.9833	51.97	36.21	-42.63	45.55	68.20	22.65	Vertical
4	8888.55	47.22	37.92	-39.65	45.49	68.20	22.71	Vertical
5	12755.6167	43.06	39.61	-34.62	48.04	68.20	20.16	Vertical
6	17837.85	41.60	41.23	-31.62	51.21	74.00	22.79	Vertical