

TEST REPORT

Application No.: SUCR2602000119TL
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Equipment Under Test (EUT):
EUT Name: Wireless Data Terminal
Model No.: TF41A
Trade Mark: SUNMI
FCC ID: 2AH25M3WN
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2026-02-04
Date of Test: 2026-02-28 to 2026-03-05
Date of Issue: 2026-03-09

Test Result:
Pass*

* In the configuration tested, the EUT complied with the standards specified above.

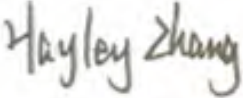
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Revision Record			
Version	Description	Date	Remark
01	Original	2026-03-09	/

Authorized for issue by:				
Tested By				
		Hayley Zhang/Project Engineer		
Approved By				
		Cedar Cheng /Reviewer		



2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10-2020/Cor1-2023 Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10-2020/Cor1-2023 Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10-2020/Cor1-2023 Section 6.6 & 12.7	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10-2020/Cor1-2023 Section 6.10.5 & 12.7.2	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10-2020/Cor1-2023 Section 12.2	ANSI C63.10-2020/Cor1-2023 Section 12.2	Pass
99% Bandwidth		ANSI C63.10-2020/Cor1-2023 Section 12.5.3	ANSI C63.10-2020/Cor1-2023 Section 12.5.3	Pass
26dB Emission Bandwidth		ANSI C63.10-2020/Cor1-2023 Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted Output Power		ANSI C63.10-2020/Cor1-2023 Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Power Spectral Density		ANSI C63.10-2020/Cor1-2023 Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass

Remark:

This test report (Report No.: SUCR260200011906 issue on 2026-03-09) is based on the original test report (Report No.: SUCR251100108008 issue on December 5, 2025).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report WIFI 5G Band I, AC power line conducted emission and Radiated Spurious Emissions were fully tested in this report, and other items data please refer to the previous report with report number SUCR251100108008 issue on December 5, 2025.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Adapter1: CK18W02U Input: AC100-240V 50/60Hz 0.5A Output: DC5V3A/9V2A/12V1.5A Adapter2: TD-661G120167UF01 Input: AC100-240V 50/60Hz 0.6A Output: DC5V3A/9V2.22A/12V1.67A
Operation Frequency:	5150-5250MHz; 5250-5350MHz; 5470-5600MHz&5650-5725MHz; 5725-5850MHz
Modulation Type:	802.11a/n:OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac:OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	802.11a/n(HT20)/ac(VHT20)/ax(HE20): 20MHz; 802.11n(HT40)/ac(VHT40)/ax(HE40): 40M; 802.11ac(VHT80)/ax(HE80): 80M
DFS Function:	Slave without radar detection
TPC Function:	Support
Antenna Type:	FPC Antenna
Antenna Gain:	5150MHz to 5250MHz: -2.31dBi(Ant3); 1.55dBi(Ant2); 5250MHz to 5350MHz: -3.45dBi(Ant3); 1.18dBi(Ant2); 5470 to 5600MHz & 5650 to 5725MHz : -1.37dBi(Ant3); 4.69dBi(Ant2); 5725MHz to 5850MHz: -1.49dBi(Ant3); 4.99dBi(Ant2)
Smart System:	SISO: 802.11a; MIMO: 802.11n/ac/ax: 2Tx & 2Rx

4.2 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	43-59%	
Value	Temperature(°C)	Voltage(V)
NTNV	21.6-23	3.87
Note:		
NV:Normal Voltage	LV:Low Extreme Test Voltage	HV:High Extreme Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Temperature	HT:High Extreme Test Temperature

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.4 Measurement Uncertainty & Decision Rule

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	$\pm 1.56\text{dB}$ (9KHz-30MHz)
		$\pm 4.80\text{dB}$ (30MHz-1GHz)
		$\pm 4.80\text{dB}$ (1GHz-18GHz)
		$\pm 4.80\text{dB}$ (18GHz-40GHz)
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

All tests were performed 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

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

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).

- **FCC (Designation Number: CN1312)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized as an accredited testing laboratory. Test Firm Registration Number:717327

- **ISED (CAB Identifier: CN0120)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 27594

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

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	1/14/2026	1/13/2027
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 Conducted Test						
1	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/14/2026	1/13/2027
2	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-15	11/21/2025	11/20/2026
3	MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/14/2026	1/13/2027
4	Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	1/14/2026	1/13/2027
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-08-01	1/14/2026	1/13/2027
6	MXG Vector Signal Generator	ROHDE&SCHWARZ	SMR20	SUWI-01-33-01	11/21/2025	11/20/2026
7	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-13	5/8/2025	5/7/2026
8	Wideband Radio Communication Test Station	Anritsu	MT8000A	SUWI-01-34-02	11/21/2025	11/20/2026
9	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/21/2025	11/20/2026
10	Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/21/2025	11/20/2026
11	Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/21/2025	11/20/2026
12	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/14/2026	1/13/2027
13	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/11/2026	2/10/2027
14	Temperature Chamber	GIANT FORCE	ICT-017-40-SP-SD	SUWI-01-13-02	5/7/2025	5/6/2026
15	Measurement Software	TST	TST 272 V2.02	SUWI-03-55-03	NCR	NCR
16	RF Control unit	TST	TSCB3023R2	SUWI-02-20-01	NCR	NCR
17	RFCables	Tonscend	NA	SUWI-01-03-01	NCR	NCR
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	1/14/2026	1/13/2027
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	1/14/2026	1/13/2027
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-18-01	1/14/2026	1/13/2027
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	1/14/2026	1/13/2027
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/14/2026	1/13/2027
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/14/2026	1/13/2027



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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	11/21/2025	11/20/2026
17	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	1/14/2026	1/13/2027
18	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/14/2026	1/13/2027
19	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/11/2026	2/10/2027
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	NCR	NCR

Remark: NCR=No Calibration Requirement.



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 FPC Antenna and no consideration of replacement. The best case gain of the

5150MHz to 5250MHz: -2.31dBi(Ant3); 1.55dBi(Ant2);

5250MHz to 5350MHz: -3.45dBi(Ant3); 1.18dBi(Ant2);

5470 to 5600MHz & 5650 to 5725MHz : -1.37dBi(Ant3); 4.69dBi(Ant2);

5725MHz to 5850MHz: -1.49dBi(Ant3); 4.99dBi(Ant2)

Antenna location: Refer to internal photo.

Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.
- For power measurements on IEEE 802.11 devices:
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have Unequal antenna gain:

Operation Frequency	ANT Gain3 (dBi)	ANT Gain2 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	-2.31	1.55	1.55	2.84	0	0
5250MHz to 5350MHz	-3.45	1.18	1.18	2.18	0	0
5470MHz to 5725MHz	-1.37	4.69	4.69	5.19	0	0
5725MHz to 5850MHz	-1.49	4.99	4.99	5.35	0	0

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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/Cor1-2023 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

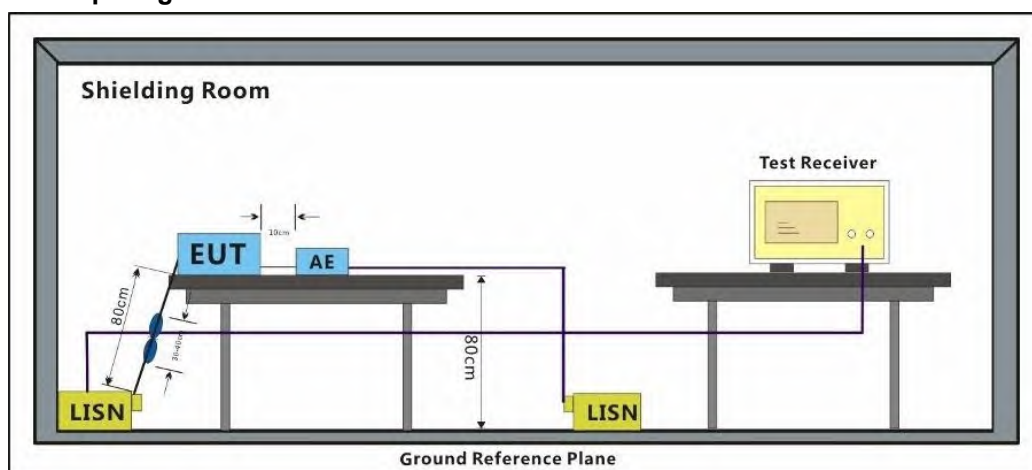
Operating Environment:

Temperature: 23 °C Humidity: 43 % RH Atmospheric Pressure: 1023 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode_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



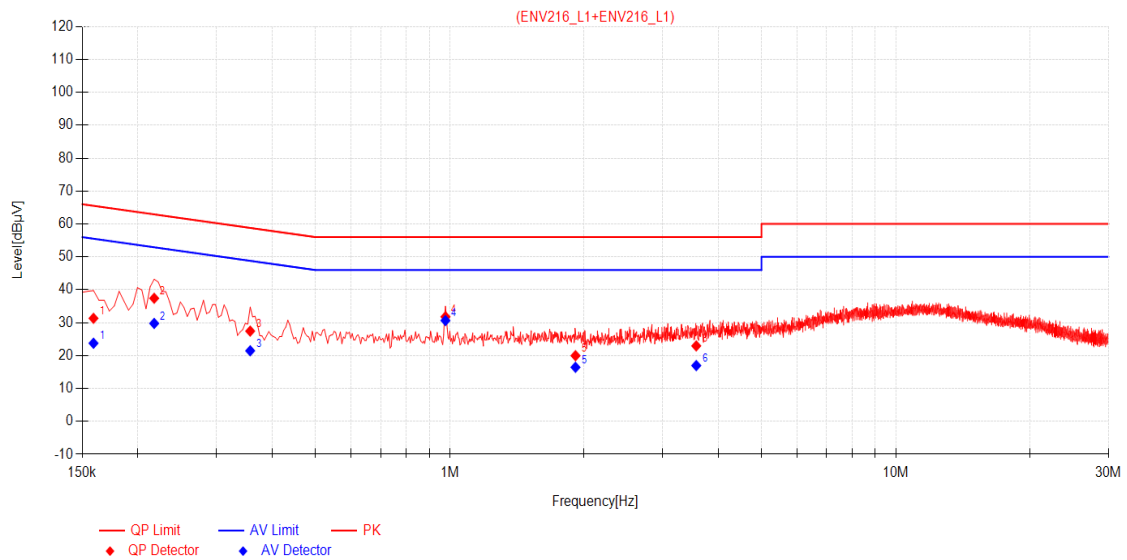
7.1.4 Measurement Procedure and Data

- 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 50ohm/50μH + 5ohm 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.

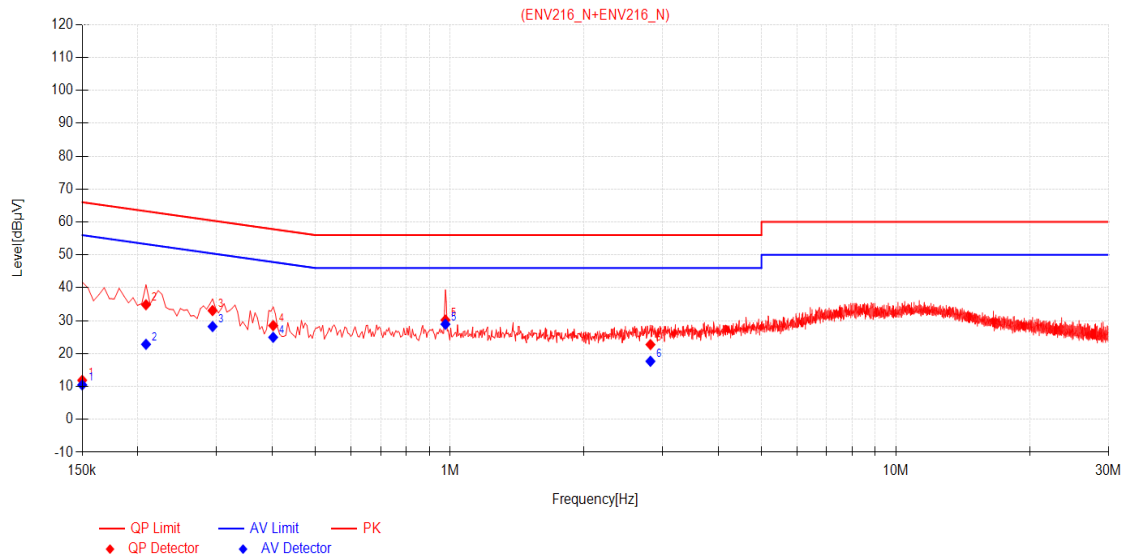
Test Mode: 05; Line: Live line



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1590	9.96	21.37	31.33	65.52	34.19	13.79	23.75	55.52	31.77	PASS
2	0.2175	9.97	27.45	37.42	62.91	25.49	19.80	29.77	52.91	23.14	PASS
3	0.3570	9.94	17.49	27.43	58.80	31.37	11.52	21.46	48.80	27.34	PASS
4	0.9780	9.90	21.89	31.79	56.00	24.21	20.74	30.64	46.00	15.36	PASS
5	1.9140	9.88	10.09	19.97	56.00	36.03	6.56	16.44	46.00	29.56	PASS
6	3.5700	9.90	13.05	22.95	56.00	33.05	7.07	16.97	46.00	29.03	PASS

Test Mode: 05; Line: Neutral Line



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1500	9.96	1.92	11.88	66.00	54.12	0.51	10.47	56.00	45.53	PASS
2	0.2085	9.97	24.87	34.84	63.26	28.42	12.84	22.81	53.26	30.45	PASS
3	0.2940	9.96	23.11	33.07	60.41	27.34	18.26	28.22	50.41	22.19	PASS
4	0.4020	9.94	18.57	28.51	57.81	29.30	15.00	24.94	47.81	22.87	PASS
5	0.9780	9.90	20.29	30.19	56.00	25.81	19.02	28.92	46.00	17.08	PASS
6	2.8185	10.32	12.42	22.74	56.00	33.26	7.34	17.66	46.00	28.34	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/Cor1-2023 Section 6.4,6.5

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

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.2.1 E.U.T. Operation

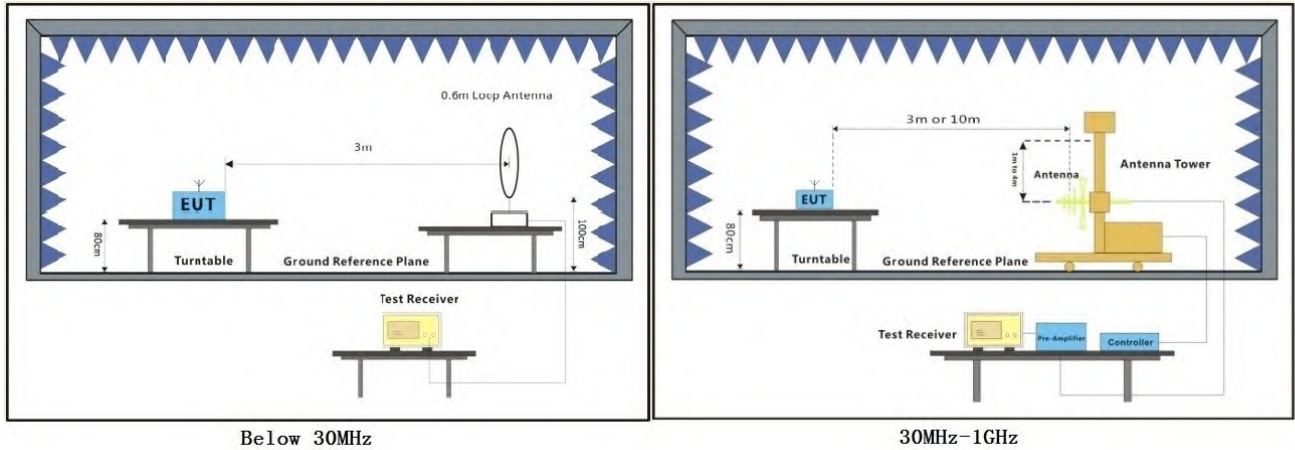
Operating Environment:

Temperature: 23 °C Humidity: 43 % RH Atmospheric Pressure: 1023 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode_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



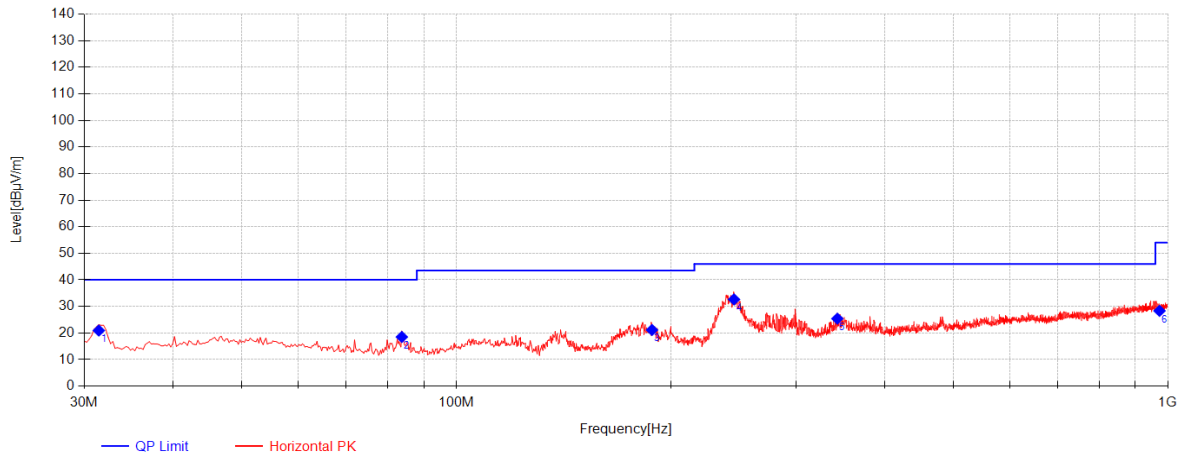
7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

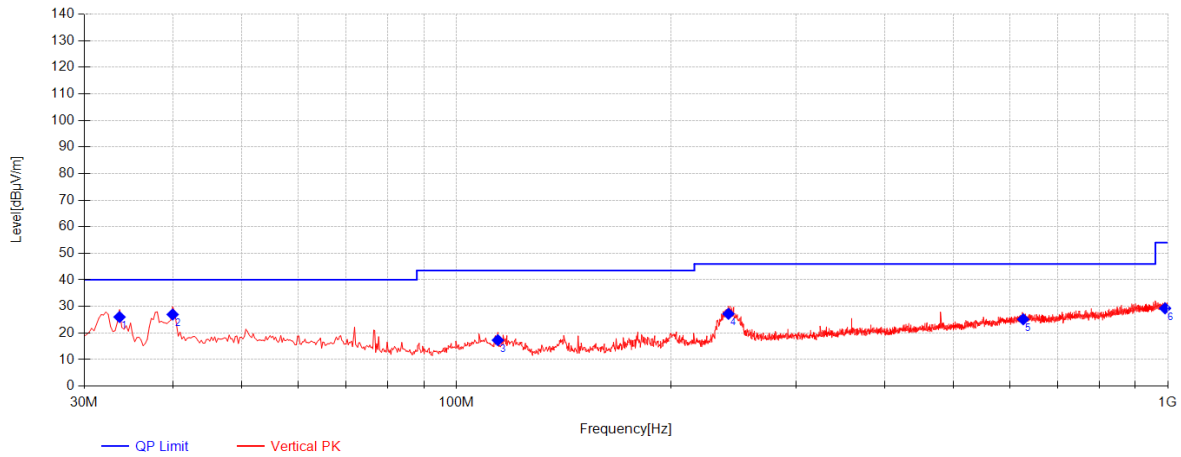
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

11a_TX_CH_100_Horizontal_worst ANT3



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	31.455	45.24	17.05	-41.36	20.93	40.00	19.07	103	195	Horizontal
2	83.835	44.37	14.65	-40.52	18.50	40.00	21.50	185	167	Horizontal
3	188.3525	44.46	16.04	-39.35	21.15	43.50	22.35	112	242	Horizontal
4	245.5825	52.6	18.70	-38.65	32.65	46.00	13.35	136	71	Horizontal
5	343.0675	43.25	20.06	-37.91	25.40	46.00	20.60	128	251	Horizontal
6	972.84	34.34	27.76	-33.77	28.33	54.00	25.67	149	335	Horizontal

11a_TX_CH_100_Vertical_worst ANT3



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	33.6375	50.1	17.23	-41.32	26.01	40.00	13.99	145	53	Vertical
2	39.9425	49.74	18.42	-41.19	26.97	40.00	13.03	129	85	Vertical
3	114.39	39.93	17.48	-40.11	17.30	43.50	26.20	131	133	Vertical
4	241.2175	47.3	18.62	-38.71	27.21	46.00	18.79	152	15	Vertical
5	626.065	36.37	24.72	-35.94	25.15	46.00	20.85	140	53	Vertical
6	990.5425	35.32	27.74	-33.79	29.27	54.00	24.73	162	142	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/Cor1-2023 Section 6.6 & 12.7

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:

1. 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 1000MHz. 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.

2. Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

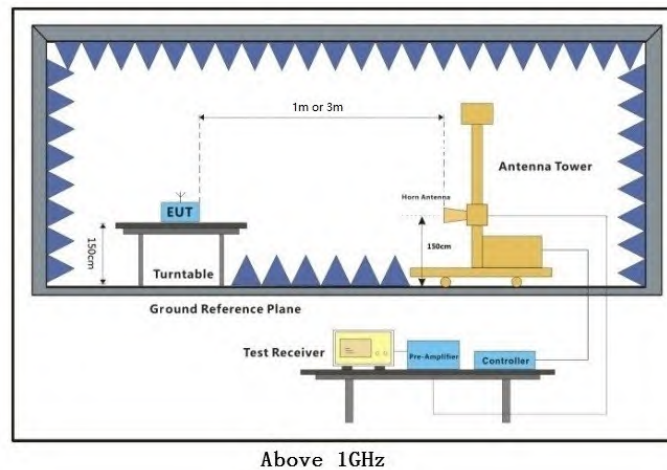
Humidity: 43 % RH

Atmospheric Pressure: 1023 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode_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



Above 1GHz

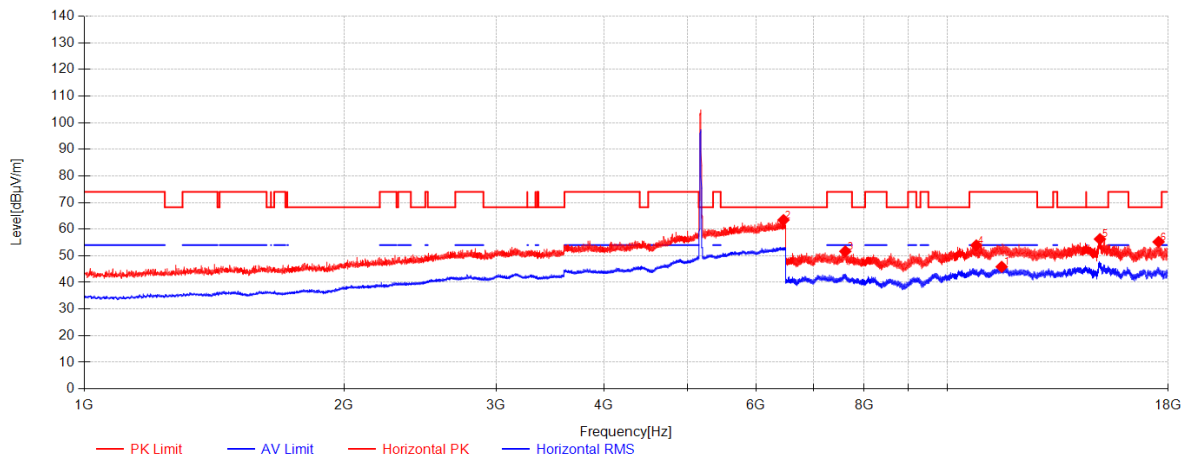
7.3.4 Measurement Procedure and Data

- 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:

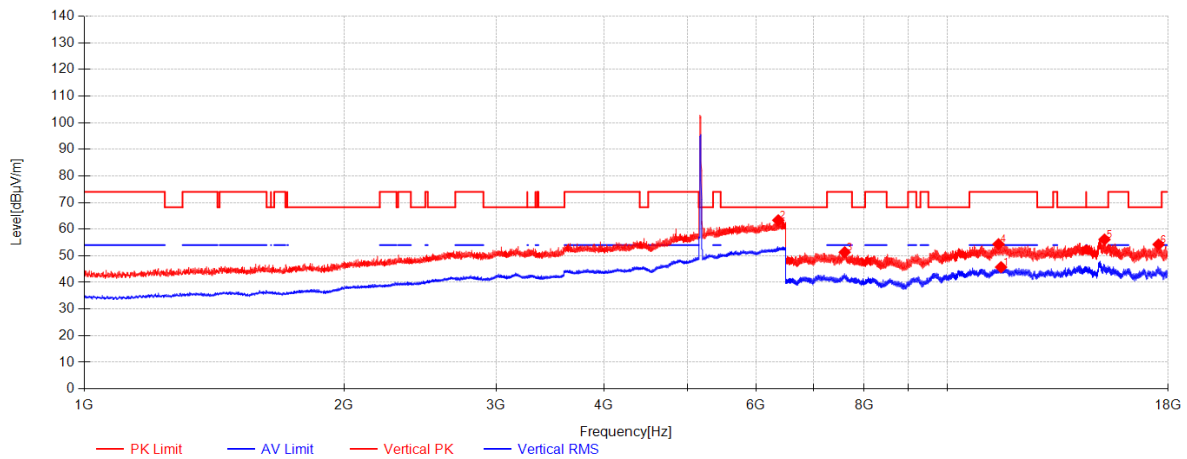
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 40GHz, The points marked on below plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more 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.

11a_TX_CH_36_Horizontal_worst ANT3



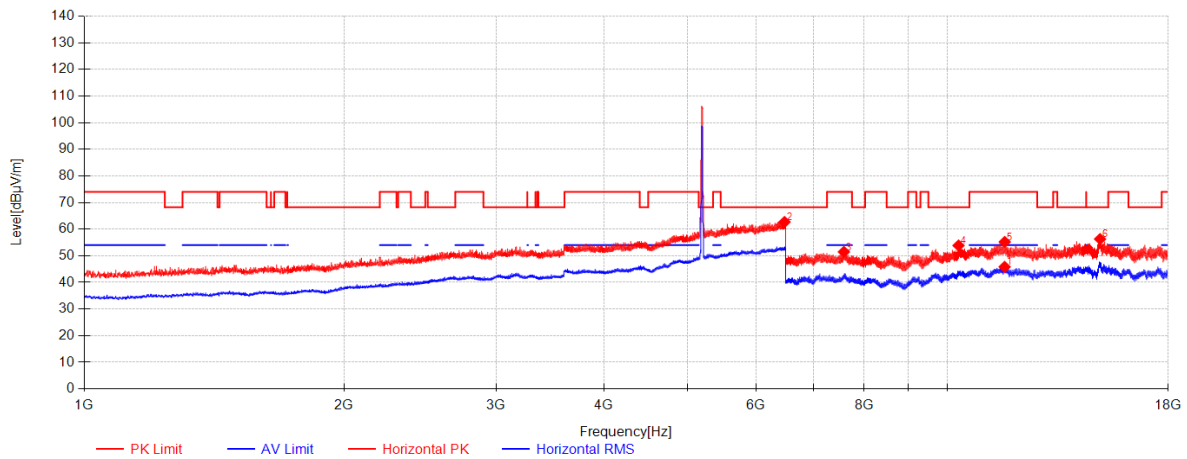
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11550.4167	45.98	40.55	-40.66	45.87	54.00	8.13	Horizontal
2	6455.5417	40.90	34.16	-11.61	63.45	68.20	4.75	Horizontal
3	7612.05	54.87	36.88	-40.09	51.66	74.00	22.34	Horizontal
4	10795.6333	55.19	39.30	-40.56	53.93	74.00	20.07	Horizontal
5	15011.9167	51.77	40.95	-36.44	56.28	68.20	11.92	Horizontal
6	17552.2667	52.70	44.71	-42.18	55.23	68.20	12.97	Horizontal

11a_TX_CH_36_Vertical_worst ANT3



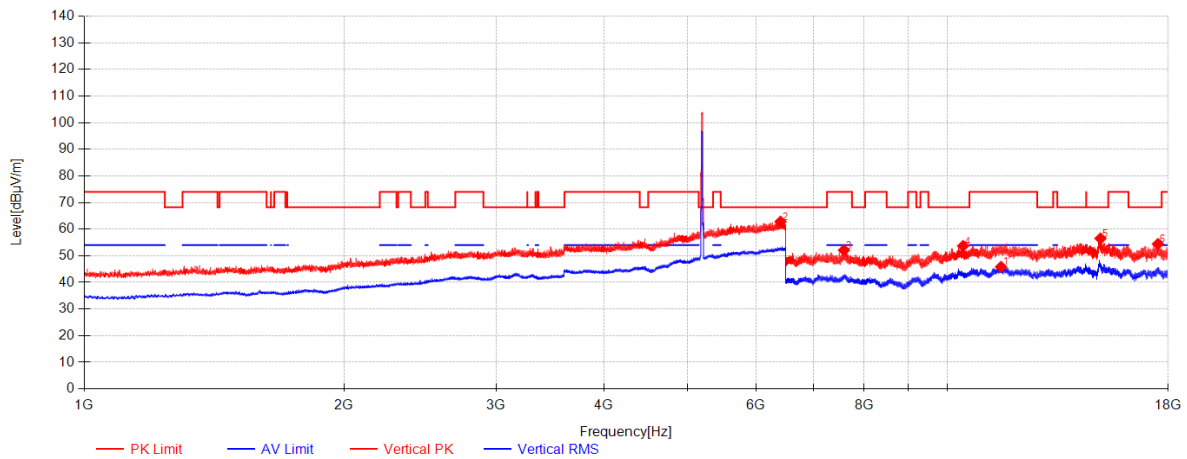
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11532.0167	45.79	40.53	-40.58	45.74	54.00	8.26	Vertical
2	6365.7083	41.21	33.73	-11.59	63.35	68.20	4.85	Vertical
3	7599.7833	54.44	36.90	-40.00	51.34	74.00	22.66	Vertical
4	11454.5833	54.30	40.55	-40.48	54.37	74.00	19.63	Vertical
5	15195.9167	52.95	40.02	-36.84	56.13	68.20	12.07	Vertical
6	17551.8833	51.73	44.71	-42.18	54.26	68.20	13.94	Vertical

11a_TX_CH_40_Horizontal_worst ANT3



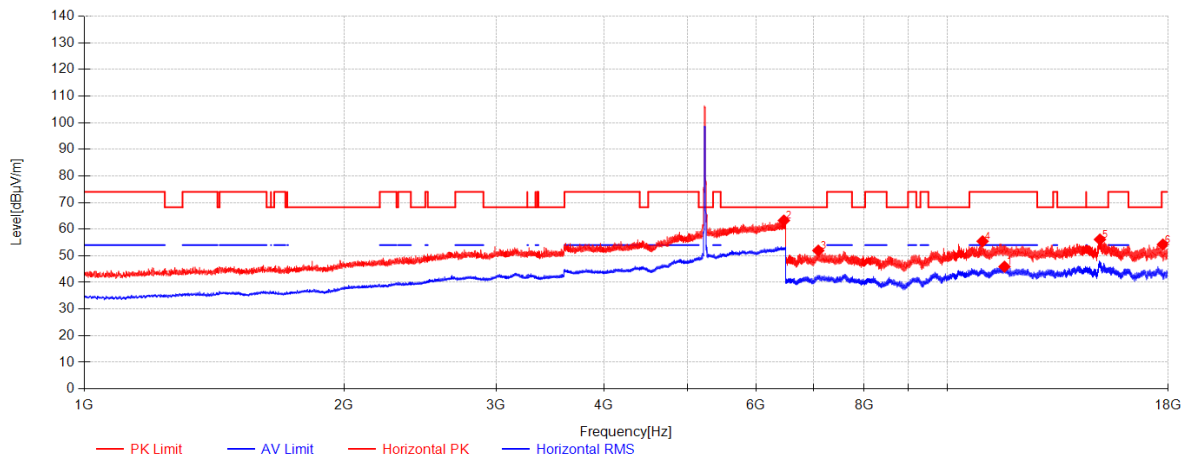
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11642.8	46.01	40.43	-40.60	45.84	54.00	8.16	Horizontal
2	6473.4167	40.00	34.33	-11.64	62.69	68.20	5.51	Horizontal
3	7584.45	54.74	36.84	-40.12	51.46	74.00	22.54	Horizontal
4	10295.3833	54.70	39.38	-40.22	53.86	68.20	14.34	Horizontal
5	11645.8667	55.36	40.42	-40.58	55.20	74.00	18.80	Horizontal
6	15016.1333	51.80	40.94	-36.45	56.29	68.20	11.91	Horizontal

11a_TX_CH_40_Vertical_worst ANT3



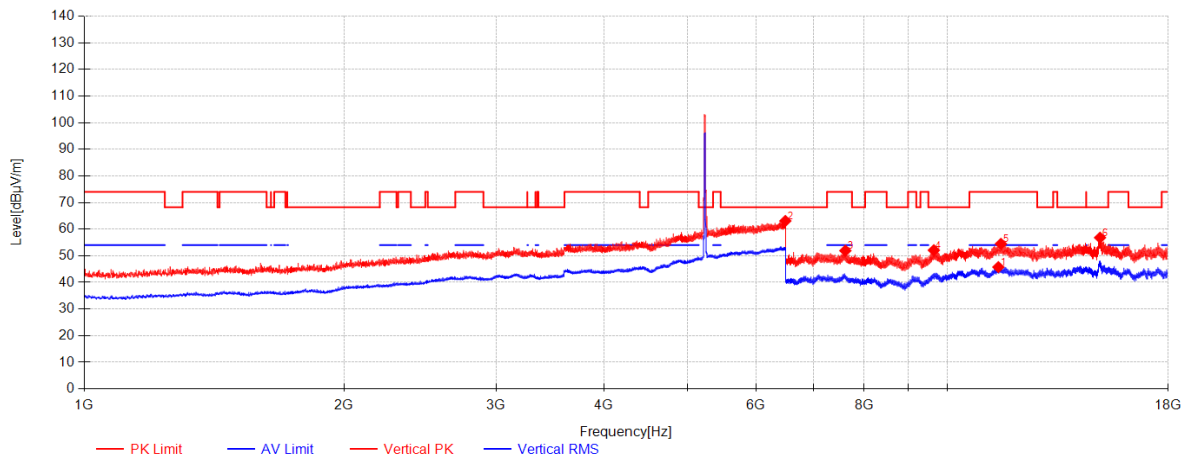
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11530.4833	45.87	40.53	-40.57	45.83	54.00	8.17	Vertical
2	6403.75	40.35	34.01	-11.54	62.82	68.20	5.38	Vertical
3	7584.0667	55.38	36.84	-40.12	52.10	74.00	21.90	Vertical
4	10421.1167	54.62	39.44	-40.36	53.70	68.20	14.50	Vertical
5	15032.2333	52.14	40.87	-36.49	56.52	68.20	11.68	Vertical
6	17520.8333	52.07	44.58	-42.21	54.44	68.20	13.76	Vertical

11a_TX_CH_48_Horizontal_worst ANT3



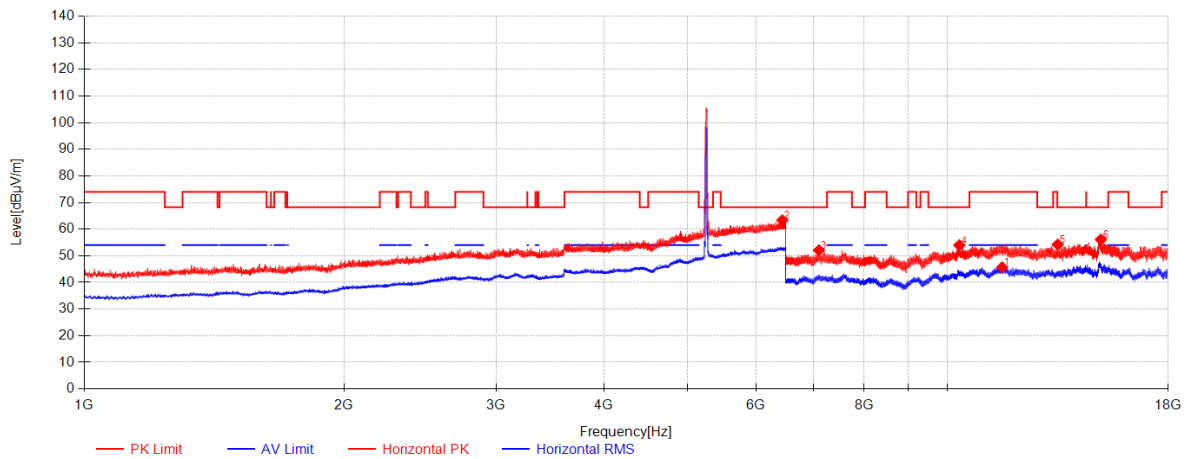
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11638.2	46.10	40.45	-40.63	45.92	54.00	8.08	Horizontal
2	6462.4167	40.65	34.22	-11.62	63.25	68.20	4.95	Horizontal
3	7083.8167	56.16	36.10	-40.29	51.97	68.20	16.23	Horizontal
4	10978.4833	56.03	40.29	-40.87	55.45	74.00	18.55	Horizontal
5	15013.0667	51.61	40.95	-36.44	56.12	68.20	12.08	Horizontal
6	17755.05	53.37	45.23	-44.35	54.25	74.00	19.75	Horizontal

11a_TX_CH_48_Vertical_worst ANT3



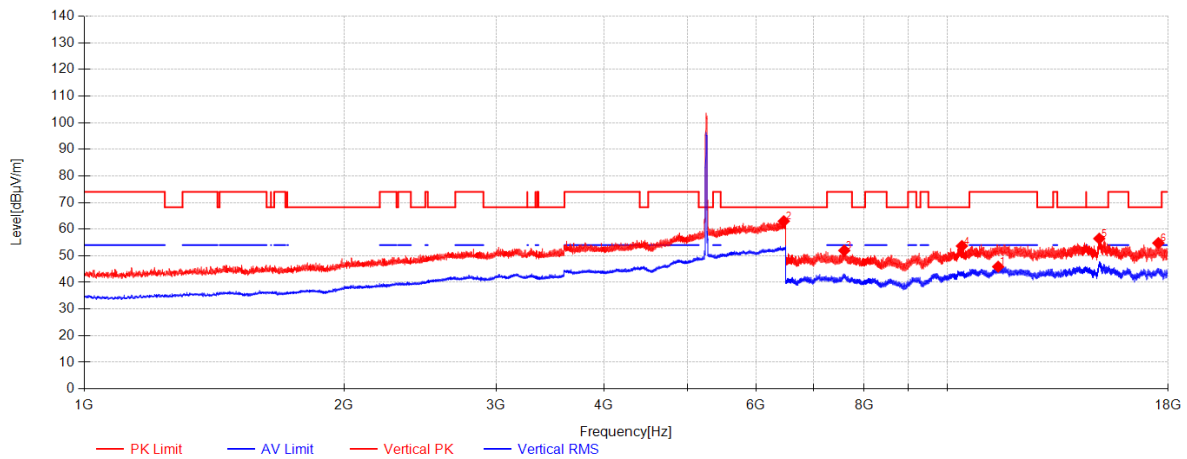
Data List								
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1	11449.6	45.69	40.55	-40.48	45.76	54.00	8.24	Vertical
2	6487.625	40.27	34.48	-11.65	63.10	68.20	5.10	Vertical
3	7613.2	55.15	36.87	-40.10	51.92	74.00	22.08	Vertical
4	9639.1167	53.79	38.33	-40.03	52.09	68.20	16.11	Vertical
5	11528.5667	54.53	40.53	-40.56	54.50	74.00	19.50	Vertical
6	15015.3667	52.33	40.94	-36.45	56.82	68.20	11.38	Vertical

11a_TX_CH_52_Horizontal_worst ANT3



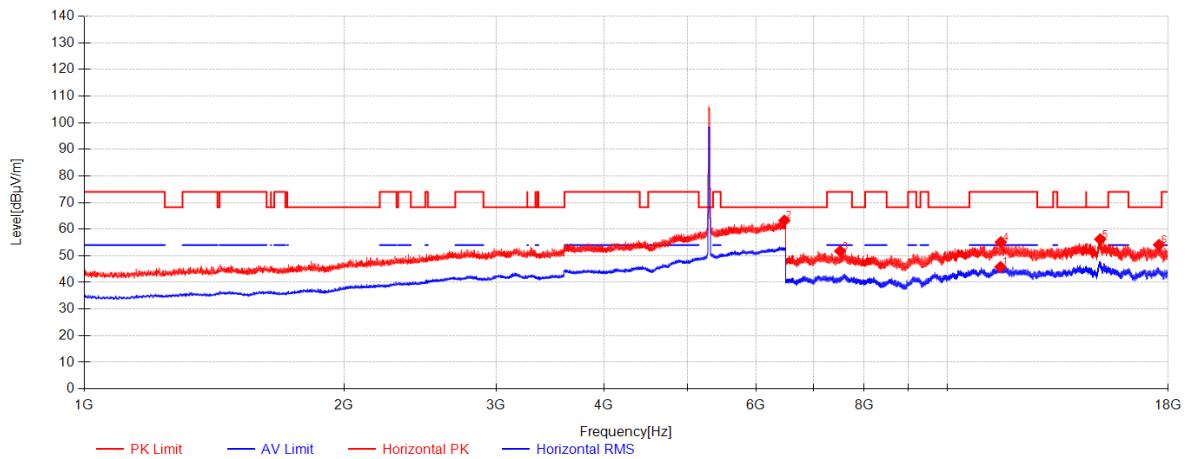
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11564.6	45.82	40.56	-40.72	45.66	54.00	8.34	Horizontal
2	6435.375	40.84	34.07	-11.59	63.32	68.20	4.88	Horizontal
3	7096.0833	56.08	36.18	-40.18	52.08	68.20	16.12	Horizontal
4	10317.2333	54.77	39.42	-40.22	53.97	68.20	14.23	Horizontal
5	13412.2667	54.63	39.86	-40.28	54.21	68.20	13.99	Horizontal
6	15048.3333	51.83	40.81	-36.53	56.11	68.20	12.09	Horizontal

11a_TX_CH_52_Vertical_worst ANT3



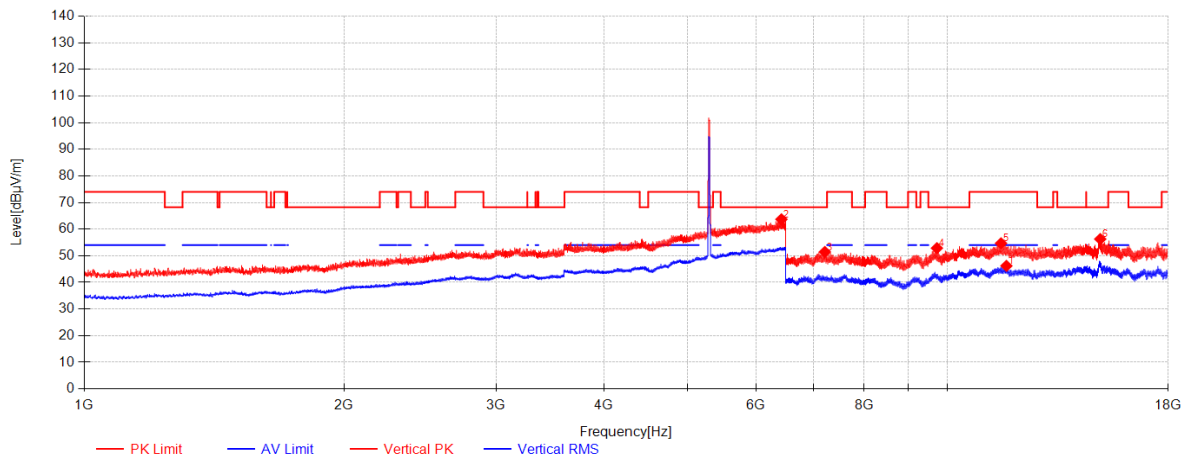
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11443.0833	45.84	40.56	-40.49	45.91	54.00	8.09	Vertical
2	6460.125	40.42	34.20	-11.62	63.00	68.20	5.20	Vertical
3	7591.35	55.16	36.87	-40.06	51.97	74.00	22.03	Vertical
4	10388.9167	54.42	39.49	-40.23	53.68	68.20	14.52	Vertical
5	14985.0833	52.45	41.04	-37.03	56.46	68.20	11.74	Vertical
6	17543.0667	52.29	44.67	-42.19	54.77	68.20	13.43	Vertical

11a_TX_CH_60_Horizontal_worst ANT3



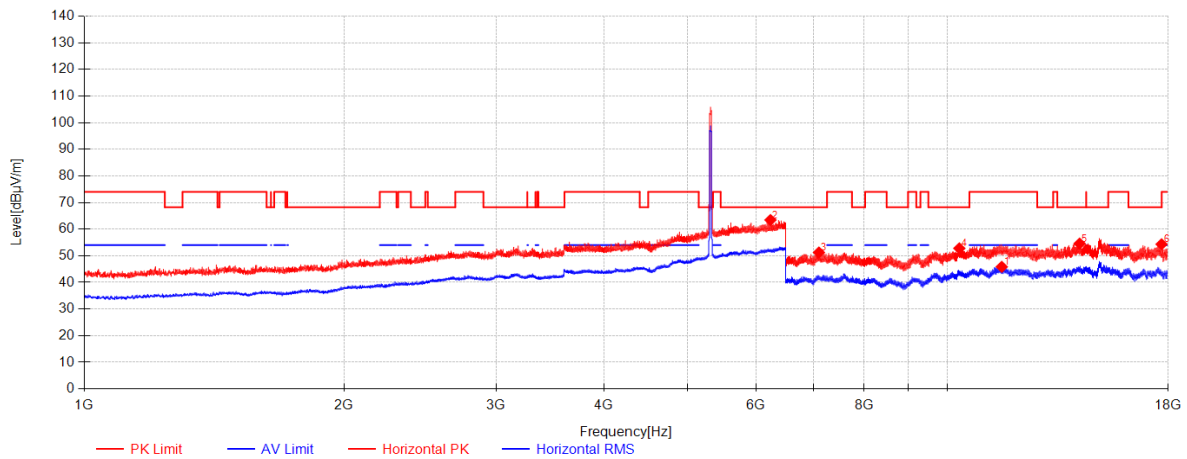
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11515.5333	45.82	40.52	-40.51	45.83	54.00	8.17	Horizontal
2	6469.75	40.56	34.30	-11.63	63.23	68.20	4.97	Horizontal
3	7508.55	55.56	36.87	-40.69	51.74	74.00	22.26	Horizontal
4	11523.9667	55.14	40.52	-40.54	55.12	74.00	18.88	Horizontal
5	15021.1167	51.76	40.92	-36.46	56.22	68.20	11.98	Horizontal
6	17572.2	51.47	44.79	-42.16	54.10	68.20	14.10	Horizontal

11a_TX_CH_60_Vertical_worst ANT3



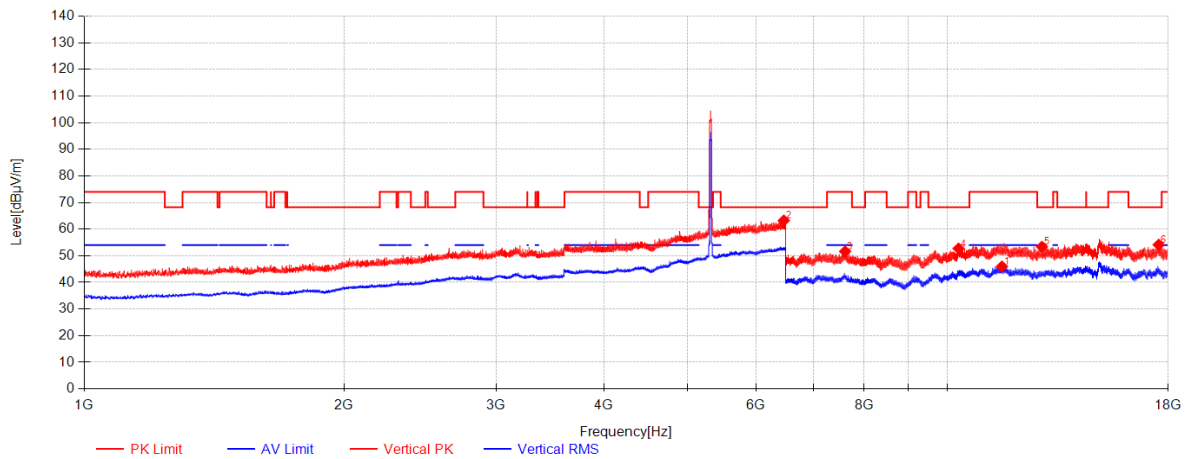
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11698	46.25	40.21	-40.24	46.22	54.00	7.78	Vertical
2	6419.7917	41.23	34.04	-11.57	63.70	68.20	4.50	Vertical
3	7208.4	55.63	36.35	-40.53	51.45	68.20	16.75	Vertical
4	9718.4667	54.52	38.54	-40.19	52.87	68.20	15.33	Vertical
5	11530.8667	54.72	40.53	-40.57	54.68	74.00	19.32	Vertical
6	15025.7167	51.85	40.90	-36.47	56.28	68.20	11.92	Vertical

11a_TX_CH_64_Horizontal_worst ANT3



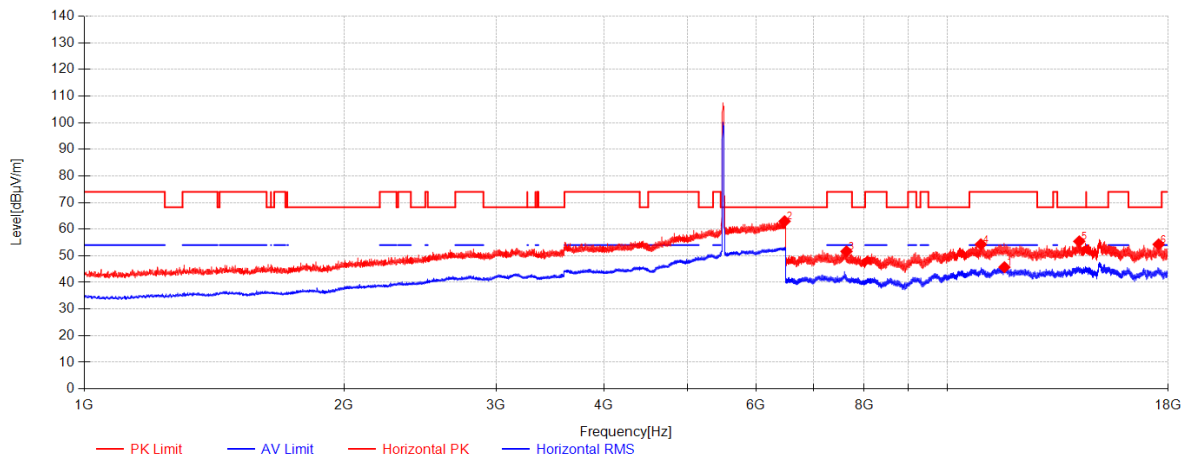
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11553.8667	45.98	40.55	-40.67	45.86	54.00	8.14	Horizontal
2	6235.0833	41.58	33.59	-11.72	63.45	68.20	4.75	Horizontal
3	7094.9333	55.27	36.17	-40.19	51.25	68.20	16.95	Horizontal
4	10317.6167	53.59	39.42	-40.22	52.79	68.20	15.41	Horizontal
5	14218.8	53.23	41.66	-40.31	54.58	68.20	13.62	Horizontal
6	17693.3333	53.28	44.90	-43.83	54.35	68.20	13.85	Horizontal

11a_TX_CH_64_Vertical_worst ANT3



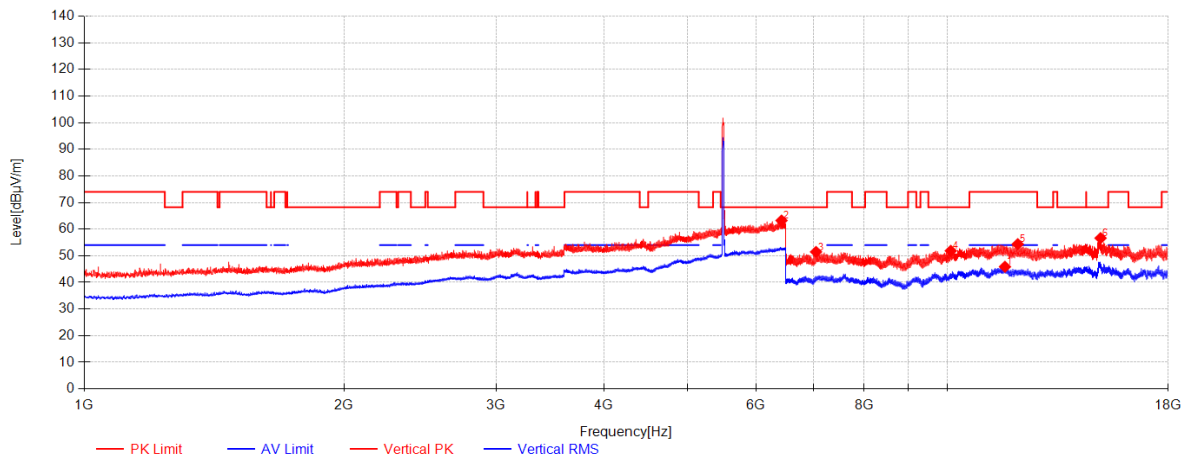
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11560.7667	46.11	40.56	-40.70	45.97	54.00	8.03	Vertical
2	6460.5833	40.64	34.21	-11.62	63.23	68.20	4.97	Vertical
3	7607.8333	54.82	36.88	-40.06	51.64	74.00	22.36	Vertical
4	10296.15	53.57	39.38	-40.22	52.73	68.20	15.47	Vertical
5	12860.2667	54.46	39.18	-40.23	53.41	68.20	14.79	Vertical
6	17558.0167	51.59	44.73	-42.17	54.15	68.20	14.05	Vertical

11a_TX_CH_100_Horizontal_worst ANT3



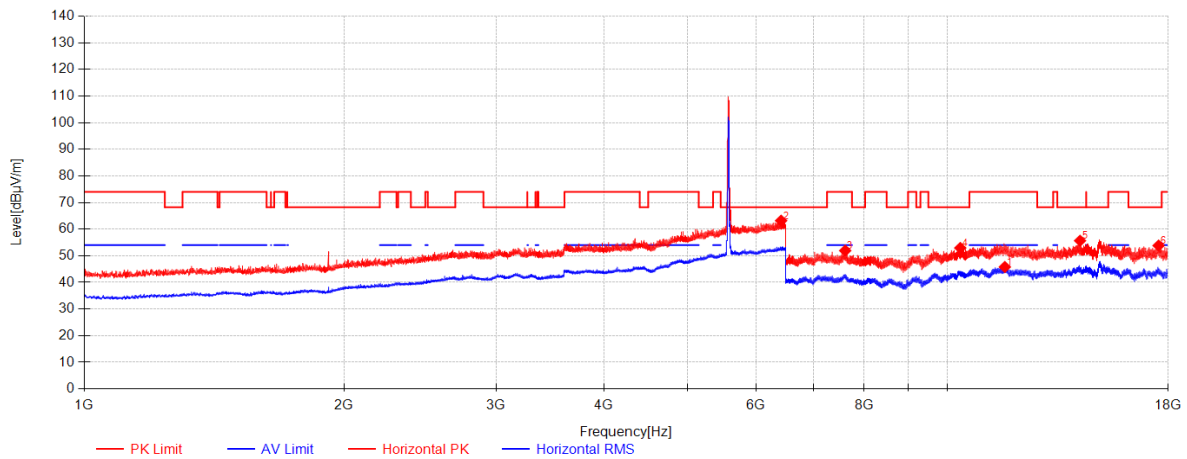
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11636.6667	45.91	40.45	-40.64	45.72	54.00	8.28	Horizontal
2	6474.7917	40.25	34.35	-11.64	62.96	68.20	5.24	Horizontal
3	7635.8167	55.10	36.83	-40.27	51.66	74.00	22.34	Horizontal
4	10927.8833	55.02	40.04	-40.76	54.30	74.00	19.70	Horizontal
5	14205.7667	54.03	41.62	-40.23	55.42	68.20	12.78	Horizontal
6	17553.8	51.76	44.72	-42.18	54.30	68.20	13.90	Horizontal

11a_TX_CH_100_Vertical_worst ANT3



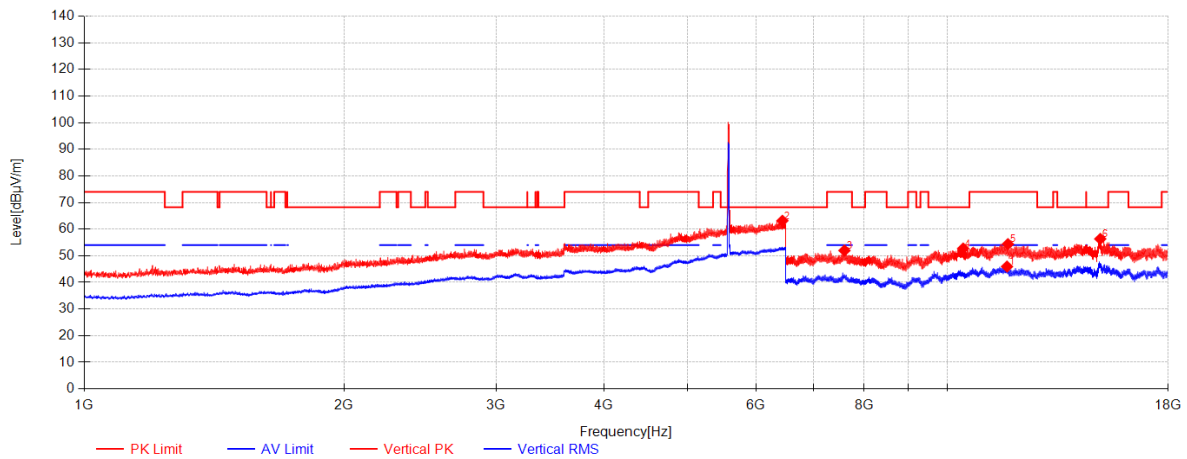
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11652.7667	46.02	40.39	-40.53	45.88	54.00	8.12	Vertical
2	6422.0833	40.78	34.04	-11.57	63.25	68.20	4.95	Vertical
3	7040.8833	56.33	35.79	-40.65	51.47	68.20	16.73	Vertical
4	10085.7	53.39	38.49	-40.02	51.86	68.20	16.34	Vertical
5	12057.5667	54.98	39.84	-40.45	54.37	74.00	19.63	Vertical
6	15037.2167	52.28	40.85	-36.50	56.63	68.20	11.57	Vertical

11a_TX_CH_116_Horizontal_worst ANT3



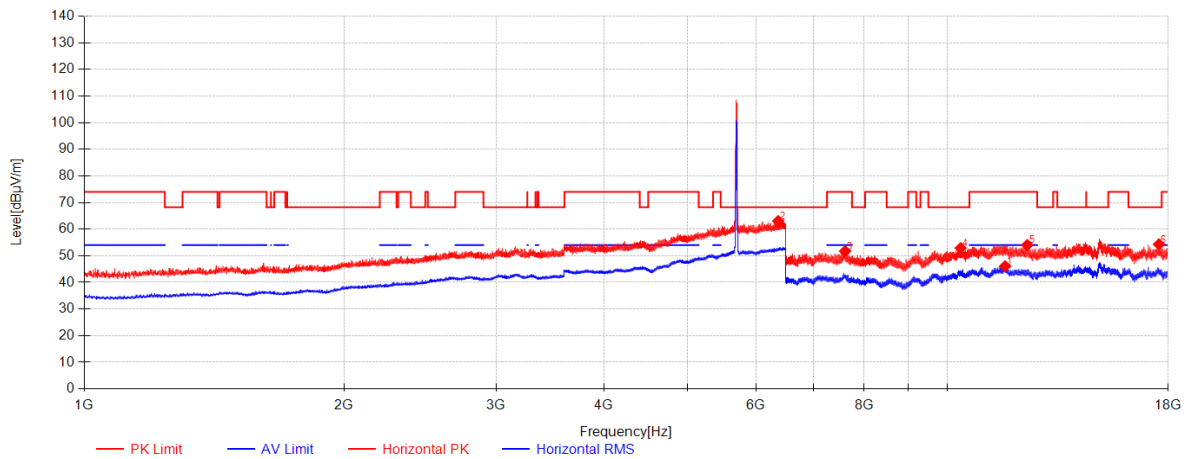
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11648.55	45.95	40.41	-40.56	45.80	54.00	8.20	Horizontal
2	6413.8333	40.72	34.03	-11.56	63.19	68.20	5.01	Horizontal
3	7610.1333	55.13	36.88	-40.08	51.93	74.00	22.07	Horizontal
4	10342.9167	53.73	39.44	-40.22	52.95	68.20	15.25	Horizontal
5	14236.4333	54.38	41.71	-40.42	55.67	68.20	12.53	Horizontal
6	17554.95	51.29	44.72	-42.18	53.83	68.20	14.37	Horizontal

11a_TX_CH_116_Vertical_worst ANT3



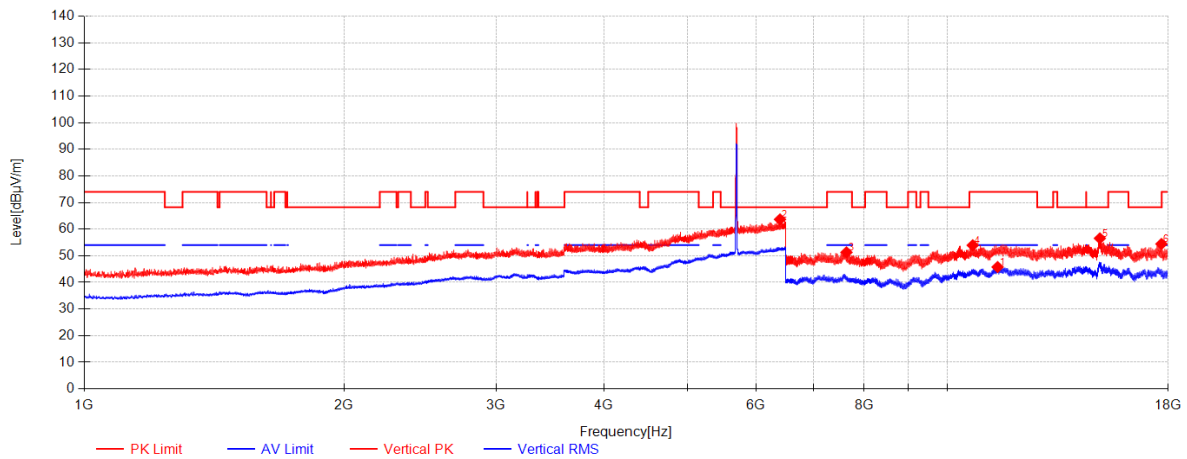
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11716.7833	46.11	40.15	-40.30	45.96	54.00	8.04	Vertical
2	6436.75	40.69	34.07	-11.59	63.17	68.20	5.03	Vertical
3	7594.8	55.13	36.88	-40.04	51.97	74.00	22.03	Vertical
4	10423.0333	53.67	39.43	-40.37	52.73	68.20	15.47	Vertical
5	11745.9167	54.75	40.06	-40.41	54.40	74.00	19.60	Vertical
6	15025.7167	51.92	40.90	-36.47	56.35	68.20	11.85	Vertical

11a_TX_CH_140_Horizontal_worst ANT3



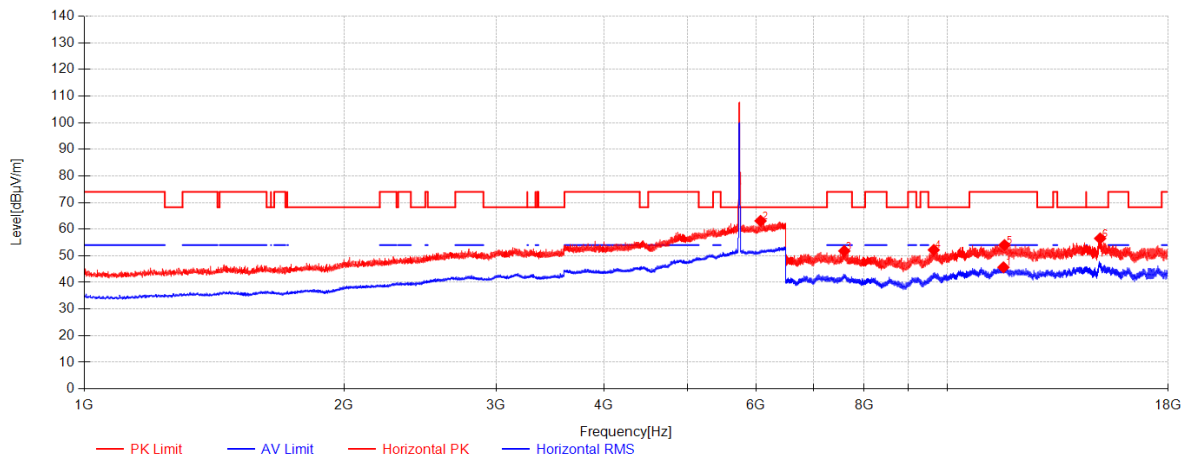
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11656.6	46.23	40.37	-40.51	46.09	54.00	7.91	Horizontal
2	6365.25	40.94	33.72	-11.59	63.07	68.20	5.13	Horizontal
3	7608.2167	54.92	36.88	-40.06	51.74	74.00	22.26	Horizontal
4	10354.8	53.69	39.45	-40.23	52.91	68.20	15.29	Horizontal
5	12364.6167	54.87	39.50	-40.33	54.04	74.00	19.96	Horizontal
6	17568.3667	51.69	44.77	-42.16	54.30	68.20	13.90	Horizontal

11a_TX_CH_140_Vertical_worst ANT3



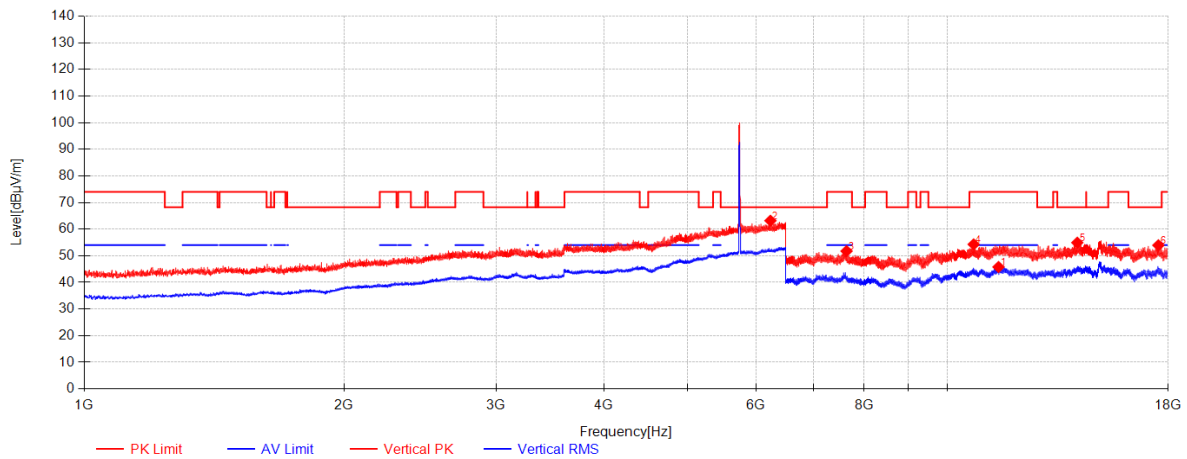
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11425.8333	45.70	40.57	-40.50	45.77	54.00	8.23	Vertical
2	6395.5	41.27	33.96	-11.55	63.68	68.20	4.52	Vertical
3	7635.8167	54.74	36.83	-40.27	51.30	74.00	22.70	Vertical
4	10692.5167	54.91	39.19	-40.15	53.95	74.00	20.05	Vertical
5	15008.85	52.02	40.96	-36.43	56.55	68.20	11.65	Vertical
6	17687.2	53.27	44.90	-43.72	54.45	68.20	13.75	Vertical

11a_TX_CH_149_Horizontal_worst ANT3



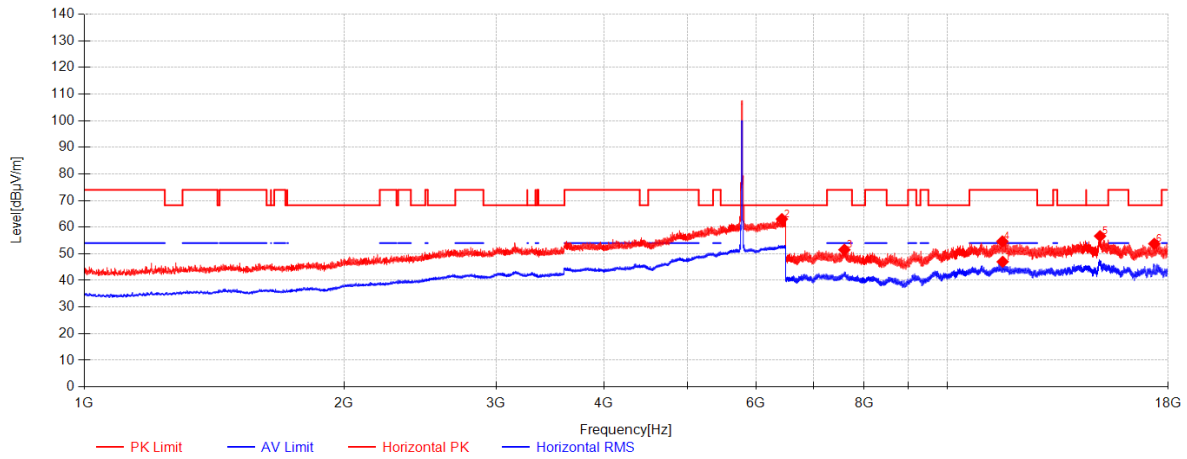
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11606.3833	45.94	40.57	-40.83	45.68	54.00	8.32	Horizontal
2	6072.375	41.40	33.42	-11.71	63.11	68.20	5.09	Horizontal
3	7591.7333	55.00	36.87	-40.06	51.81	74.00	22.19	Horizontal
4	9637.9667	53.91	38.33	-40.03	52.21	68.20	15.99	Horizontal
5	11638.9667	54.20	40.44	-40.62	54.02	74.00	19.98	Horizontal
6	15019.5833	52.06	40.92	-36.46	56.52	68.20	11.68	Horizontal

11a_TX_CH_149_Verical_worst ANT3



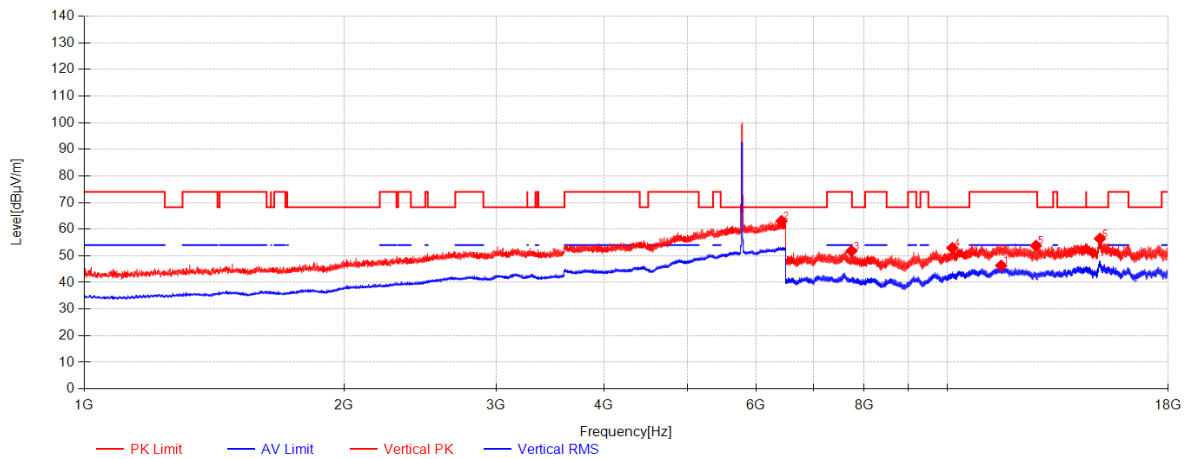
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11454.2	45.73	40.55	-40.48	45.80	54.00	8.20	Vertical
2	6234.625	41.31	33.59	-11.72	63.18	68.20	5.02	Vertical
3	7637.35	55.20	36.83	-40.28	51.75	74.00	22.25	Vertical
4	10720.1167	55.31	39.22	-40.24	54.29	74.00	19.71	Vertical
5	14131.7833	53.80	41.53	-40.40	54.93	68.20	13.27	Vertical
6	17543.8333	51.46	44.68	-42.19	53.95	68.20	14.25	Vertical

11a_TX_CH_157_Horizontal_worst ANT3



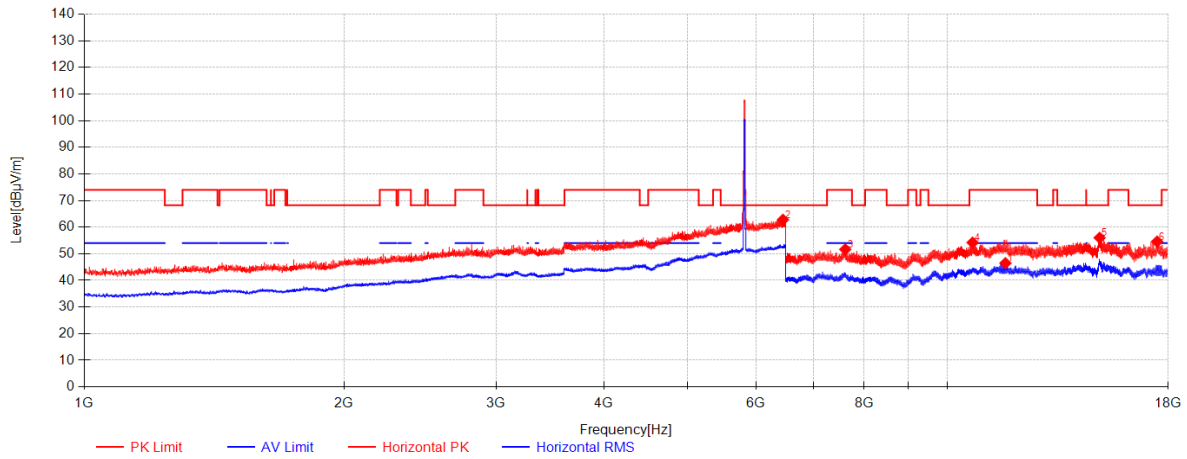
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11582.2333	47.22	40.58	-40.79	47.01	54.00	6.99	Horizontal
2	6428.0417	40.56	34.06	-11.58	63.04	68.20	5.16	Horizontal
3	7594.4167	54.68	36.88	-40.04	51.52	74.00	22.48	Horizontal
4	11573.0333	54.85	40.57	-40.75	54.67	74.00	19.33	Horizontal
5	15016.1333	52.15	40.94	-36.45	56.64	68.20	11.56	Horizontal
6	17355.2333	52.43	43.66	-42.32	53.77	68.20	14.43	Horizontal

11a_TX_CH_157_Vertical_worst ANT3



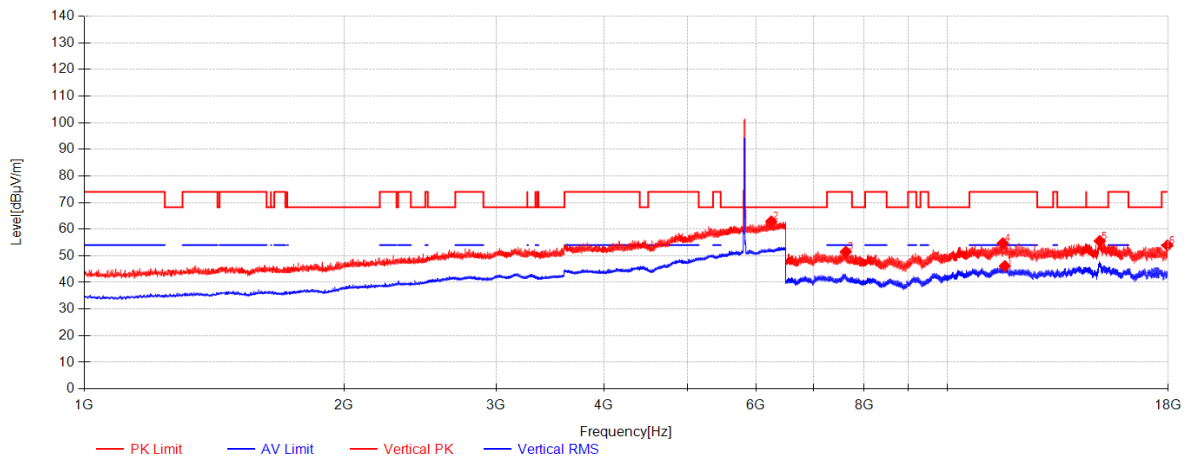
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11536.2333	46.39	40.54	-40.60	46.33	54.00	7.67	Vertical
2	6421.625	40.59	34.04	-11.57	63.06	68.20	5.14	Vertical
3	7738.1667	55.70	36.65	-40.55	51.80	74.00	22.20	Vertical
4	10125.5667	54.36	38.63	-40.06	52.93	68.20	15.27	Vertical
5	12656.7167	55.64	38.66	-40.54	53.76	74.00	20.24	Vertical
6	15011.5333	51.92	40.95	-36.44	56.43	68.20	11.77	Vertical

11a_TX_CH_165_Horizontal_worst ANT3



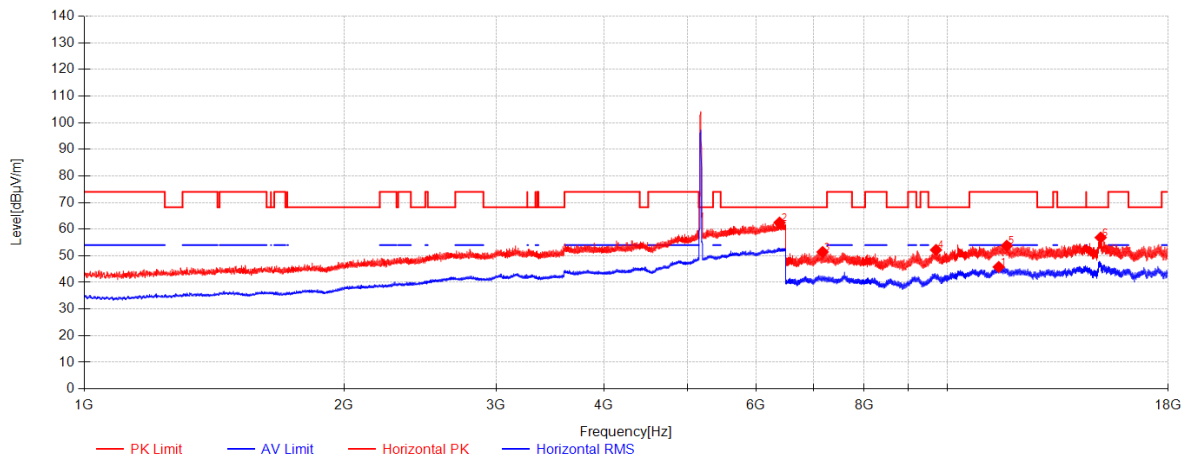
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11667.7167	46.61	40.33	-40.44	46.50	54.00	7.50	Horizontal
2	6446.8333	40.31	34.09	-11.60	62.80	68.20	5.40	Horizontal
3	7611.2833	54.86	36.88	-40.08	51.66	74.00	22.34	Horizontal
4	10689.45	55.18	39.18	-40.15	54.21	74.00	19.79	Horizontal
5	14998.1167	51.51	41.01	-36.49	56.03	68.20	12.17	Horizontal
6	17484.4167	52.48	44.45	-42.33	54.60	68.20	13.60	Horizontal

11a_TX_CH_165_Veritical_worst ANT3



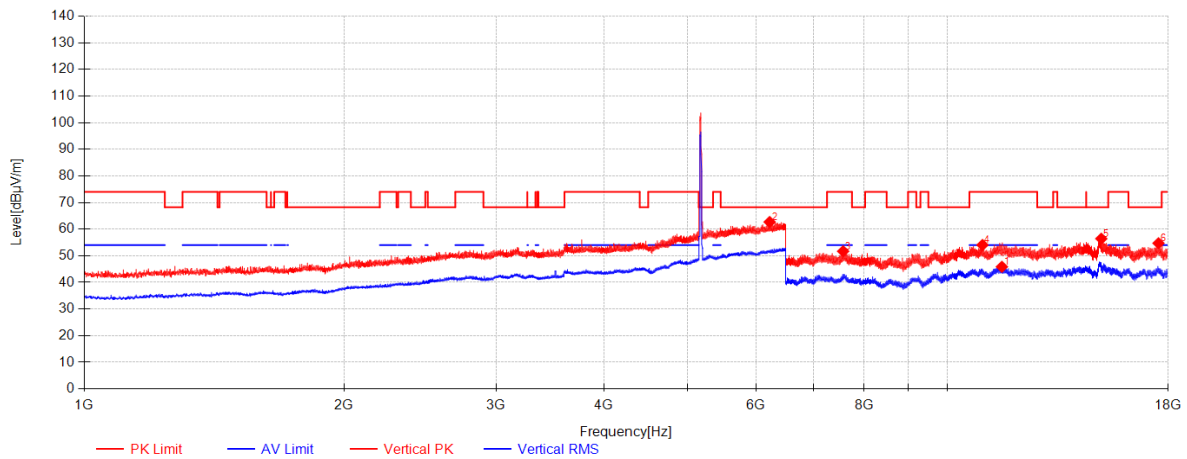
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11649.7	46.29	40.40	-40.55	46.14	54.00	7.86	Vertical
2	6249.2917	41.11	33.50	-11.71	62.90	68.20	5.30	Vertical
3	7623.1667	54.83	36.85	-40.17	51.51	74.00	22.49	Vertical
4	11586.8333	54.93	40.59	-40.81	54.71	74.00	19.29	Vertical
5	15003.1	50.97	40.99	-36.42	55.54	68.20	12.66	Vertical
6	17973.55	52.52	47.42	-46.05	53.89	74.00	20.11	Vertical

11ax(HE20)_TX_CH_36_Horizontal_MIMO



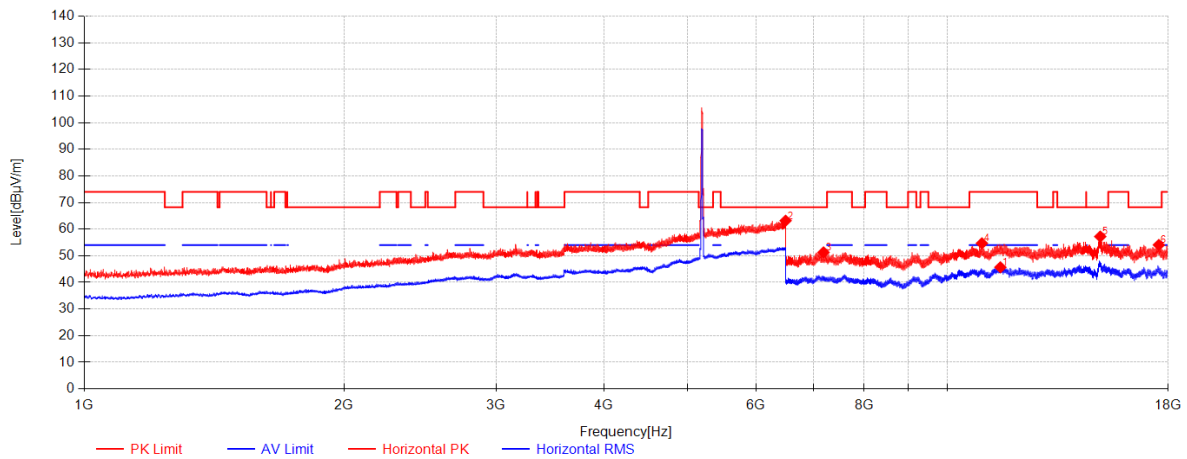
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11459.95	45.74	40.54	-40.47	45.81	54.00	8.19	Horizontal
2	6387.25	40.12	33.90	-11.56	62.46	68.20	5.74	Horizontal
3	7165.0833	55.68	36.16	-40.42	51.42	68.20	16.78	Horizontal
4	9695.85	53.72	38.49	-40.01	52.20	68.20	16.00	Horizontal
5	11707.9667	53.84	40.18	-40.26	53.76	74.00	20.24	Horizontal
6	15041.4333	52.53	40.83	-36.51	56.85	68.20	11.35	Horizontal

11ax(HE20)_TX_CH_36_Vertical_MIMO



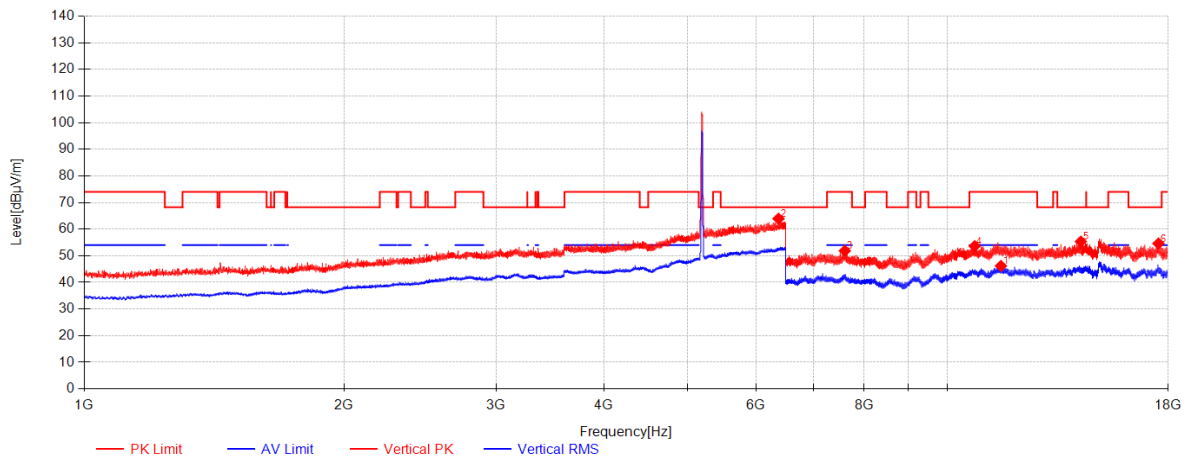
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11557.3167	46.01	40.56	-40.69	45.88	54.00	8.12	Vertical
2	6221.3333	40.74	33.67	-11.72	62.69	68.20	5.51	Vertical
3	7568.35	55.16	36.77	-40.24	51.69	74.00	22.31	Vertical
4	10974.65	54.66	40.27	-40.86	54.07	74.00	19.93	Vertical
5	15066.7333	52.27	40.73	-36.57	56.43	68.20	11.77	Vertical
6	17548.4333	52.21	44.69	-42.18	54.72	68.20	13.48	Vertical

11ax(HE20)_TX_CH_40_Horizontal_MIMO



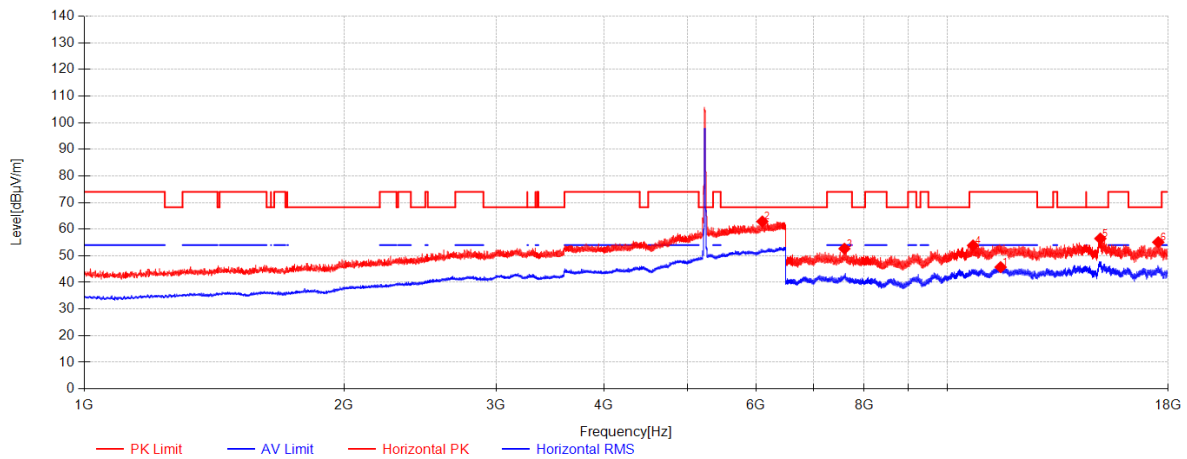
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11511.7	45.67	40.51	-40.49	45.69	54.00	8.31	Horizontal
2	6492.2083	40.33	34.52	-11.66	63.19	68.20	5.01	Horizontal
3	7182.7167	55.55	36.23	-40.49	51.29	68.20	16.91	Horizontal
4	10957.4	55.33	40.19	-40.83	54.69	74.00	19.31	Horizontal
5	15026.1	52.80	40.90	-36.47	57.23	68.20	10.97	Horizontal
6	17564.15	51.49	44.76	-42.17	54.08	68.20	14.12	Horizontal

11ax(HE20)_TX_CH_40_Veritical_MIMO



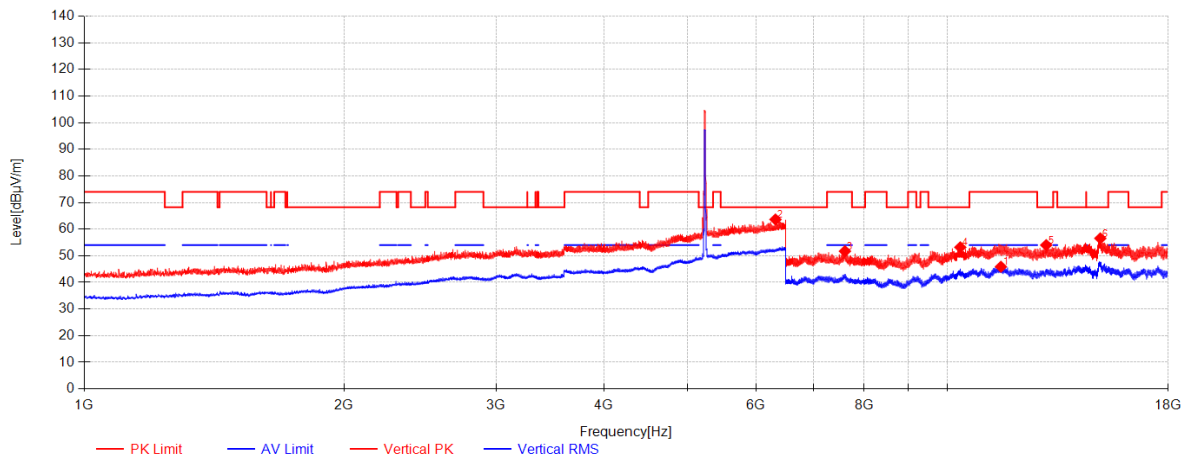
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11527.0333	46.22	40.53	-40.56	46.19	54.00	7.81	Vertical
2	6369.8333	41.78	33.76	-11.59	63.95	68.20	4.25	Vertical
3	7601.7	54.97	36.90	-40.01	51.86	74.00	22.14	Vertical
4	10748.1	54.76	39.25	-40.36	53.65	74.00	20.35	Vertical
5	14265.1833	54.12	41.80	-40.59	55.33	68.20	12.87	Vertical
6	17546.5167	52.09	44.69	-42.18	54.60	68.20	13.60	Vertical

11ax(HE20)_TX_CH_48_Horizontal_MIMO



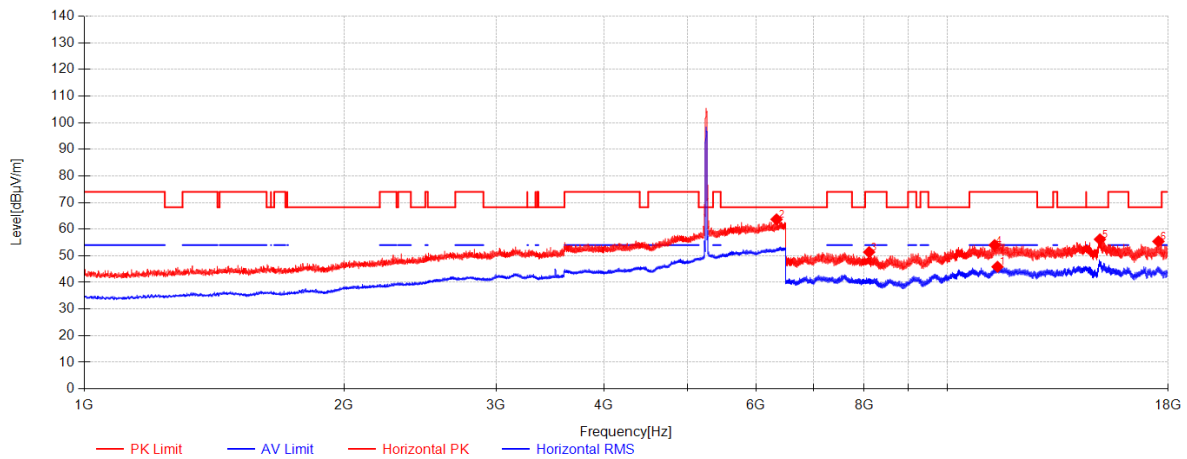
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11519.3667	45.74	40.52	-40.52	45.74	54.00	8.26	Horizontal
2	6101.25	40.81	33.70	-11.63	62.88	68.20	5.32	Horizontal
3	7594.8	55.83	36.88	-40.04	52.67	74.00	21.33	Horizontal
4	10701.7167	54.84	39.20	-40.16	53.88	74.00	20.12	Horizontal
5	15028.4	52.07	40.89	-36.48	56.48	68.20	11.72	Horizontal
6	17538.0833	52.63	44.65	-42.19	55.09	68.20	13.11	Horizontal

11ax(HE20)_TX_CH_48_Vertical_MIMO



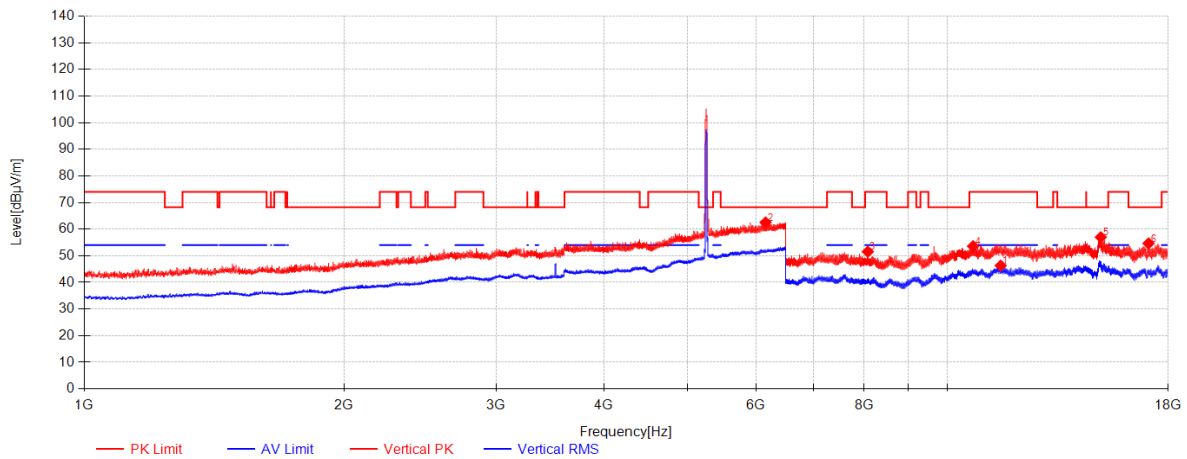
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11527.4167	45.93	40.53	-40.56	45.90	54.00	8.10	Vertical
2	6318.9583	41.88	33.41	-11.66	63.63	68.20	4.57	Vertical
3	7604.7667	54.87	36.89	-40.04	51.72	74.00	22.28	Vertical
4	10344.0667	53.98	39.44	-40.22	53.20	68.20	15.00	Vertical
5	13007.0833	54.75	39.52	-40.25	54.02	68.20	14.18	Vertical
6	15027.6333	52.13	40.89	-36.48	56.54	68.20	11.66	Vertical

11ax(HE20)_TX_CH_52_Horizontal_MIMO



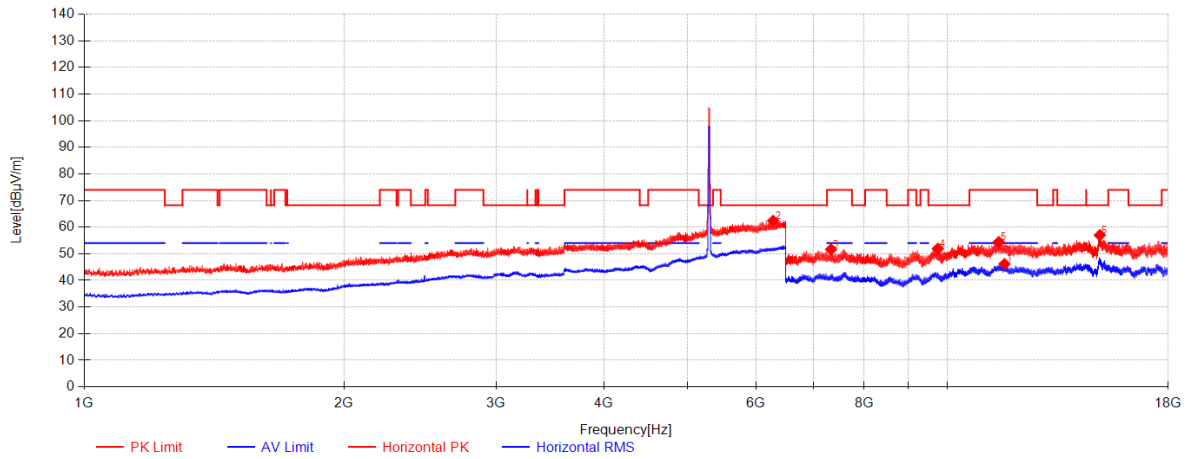
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11422.7667	45.79	40.58	-40.50	45.87	54.00	8.13	Horizontal
2	6337.2917	41.79	33.52	-11.63	63.68	68.20	4.52	Horizontal
3	8112.3	55.19	36.38	-40.18	51.39	74.00	22.61	Horizontal
4	11334.9833	54.40	40.47	-40.86	54.01	74.00	19.99	Horizontal
5	15011.15	51.67	40.96	-36.44	56.19	68.20	12.01	Horizontal
6	17545.3667	52.89	44.68	-42.18	55.39	68.20	12.81	Horizontal

11ax(HE20)_TX_CH_52_Vertical_MIMO



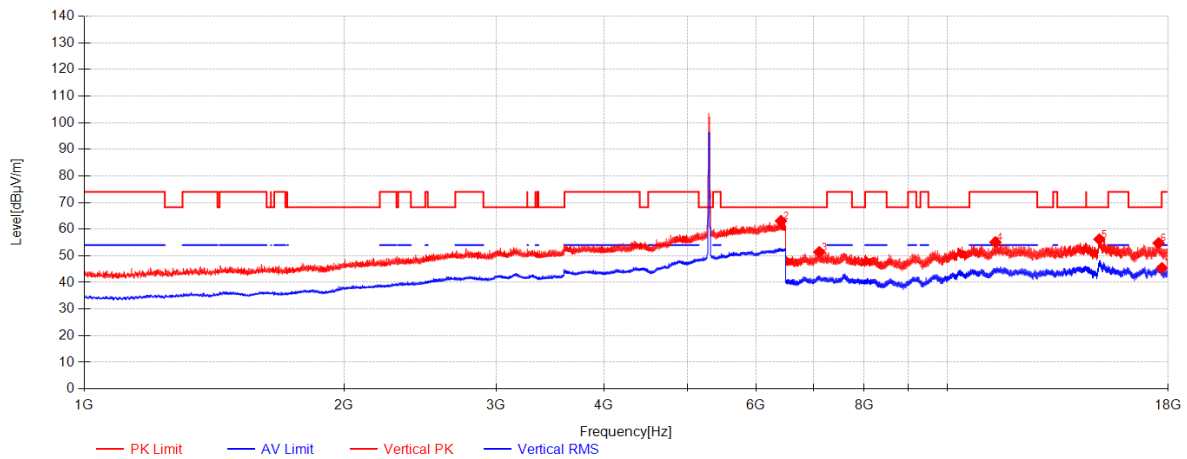
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11521.2833	46.33	40.52	-40.53	46.32	54.00	7.68	Vertical
2	6154.4167	40.60	33.62	-11.68	62.54	68.20	5.66	Vertical
3	8082.4	55.47	36.36	-40.28	51.55	74.00	22.45	Vertical
4	10701.3333	54.56	39.20	-40.16	53.60	74.00	20.40	Vertical
5	15046.0333	52.68	40.82	-36.52	56.98	68.20	11.22	Vertical
6	17088.8167	53.39	41.71	-40.46	54.64	68.20	13.56	Vertical

11ax(HE20)_TX_CH_60_Horizontal_MIMO



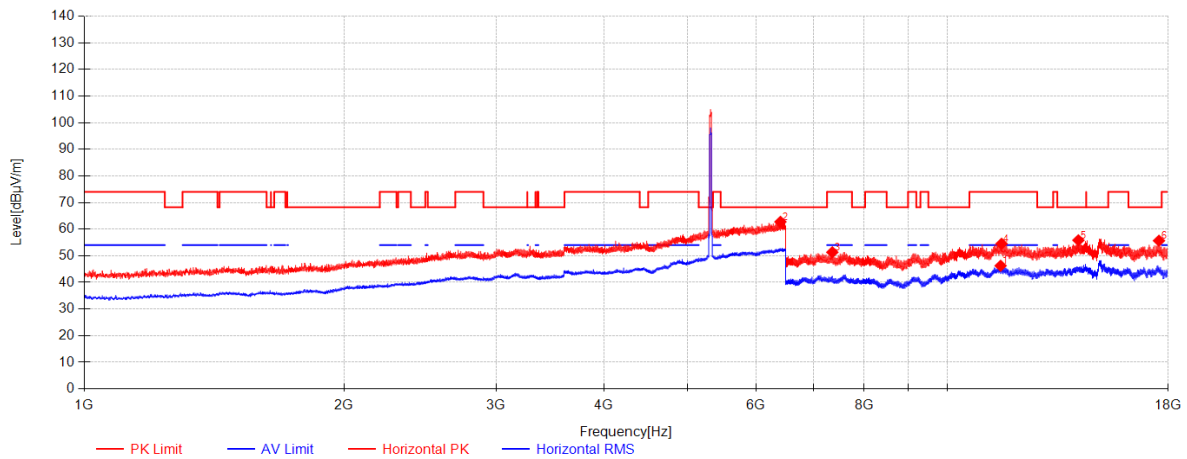
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11638.2	46.34	40.45	-40.63	46.16	54.00	7.84	Horizontal
2	6280.4583	40.73	33.38	-11.70	62.41	68.20	5.79	Horizontal
3	7328.3833	55.25	36.76	-40.36	51.65	74.00	22.35	Horizontal
4	9743.7667	53.77	38.59	-40.43	51.93	68.20	16.27	Horizontal
5	11461.8667	54.36	40.54	-40.47	54.43	74.00	19.57	Horizontal
6	15007.3167	52.46	40.97	-36.43	57.00	68.20	11.20	Horizontal

11ax(HE20)_TX_CH_60_Vertical_MIMO



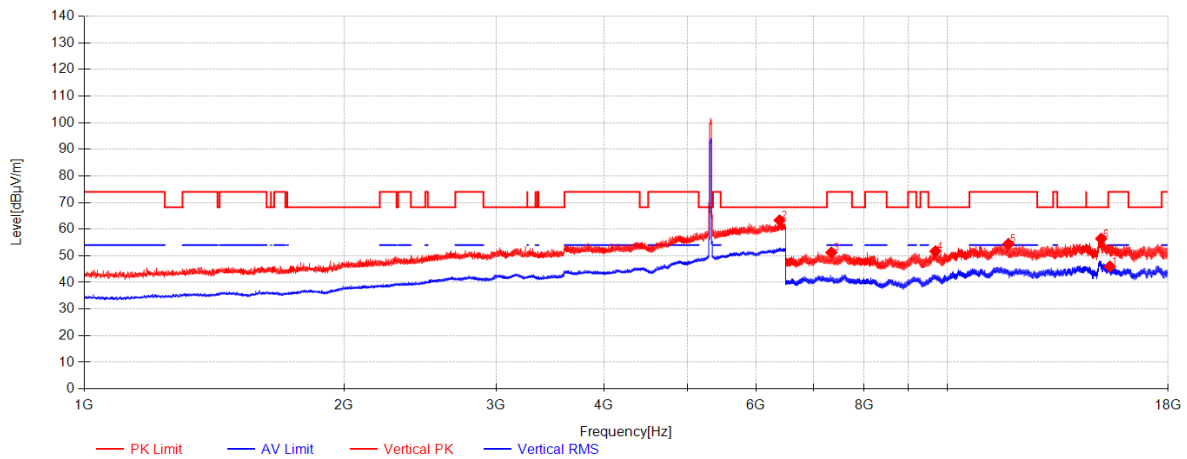
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	17709.8167	44.46	44.96	-44.02	45.40	54.00	8.60	Vertical
2	6411.5417	40.63	34.02	-11.56	63.09	68.20	5.11	Vertical
3	7100.6833	55.37	36.20	-40.15	51.42	68.20	16.78	Vertical
4	11358.75	55.33	40.52	-40.74	55.11	74.00	18.89	Vertical
5	14987.3833	52.11	41.04	-36.94	56.21	68.20	11.99	Vertical
6	17551.8833	52.25	44.71	-42.18	54.78	68.20	13.42	Vertical

11ax(HE20)_TX_CH_64_Horizontal_MIMO



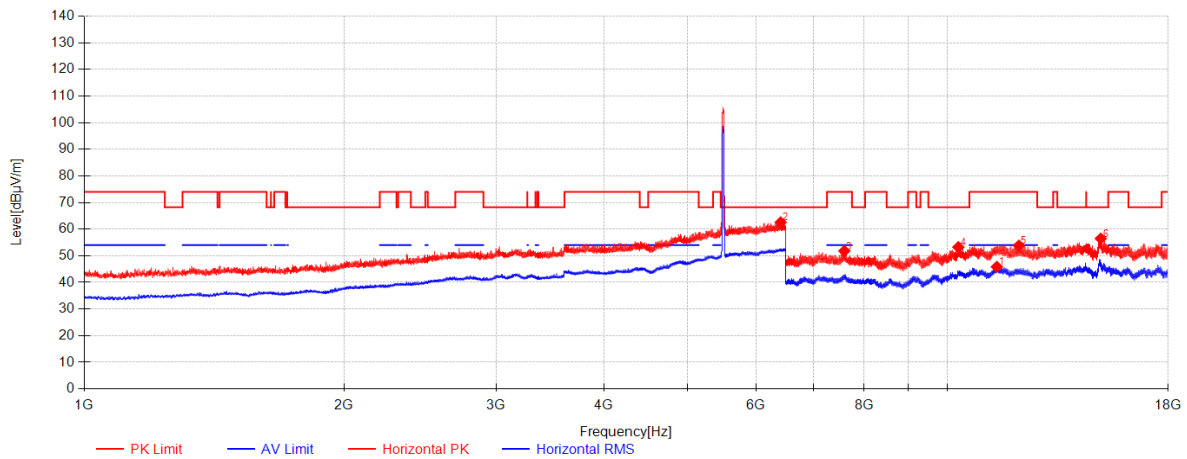
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11518.6	46.26	40.52	-40.52	46.26	54.00	7.74	Horizontal
2	6402.8333	40.29	34.01	-11.54	62.76	68.20	5.44	Horizontal
3	7353.3	55.08	36.77	-40.52	51.33	74.00	22.67	Horizontal
4	11547.35	54.62	40.55	-40.64	54.53	74.00	19.47	Horizontal
5	14173.95	54.54	41.57	-40.28	55.83	68.20	12.37	Horizontal
6	17572.5833	53.04	44.79	-42.16	55.67	68.20	12.53	Horizontal

11ax(HE20)_TX_CH_64_Vertical_MIMO



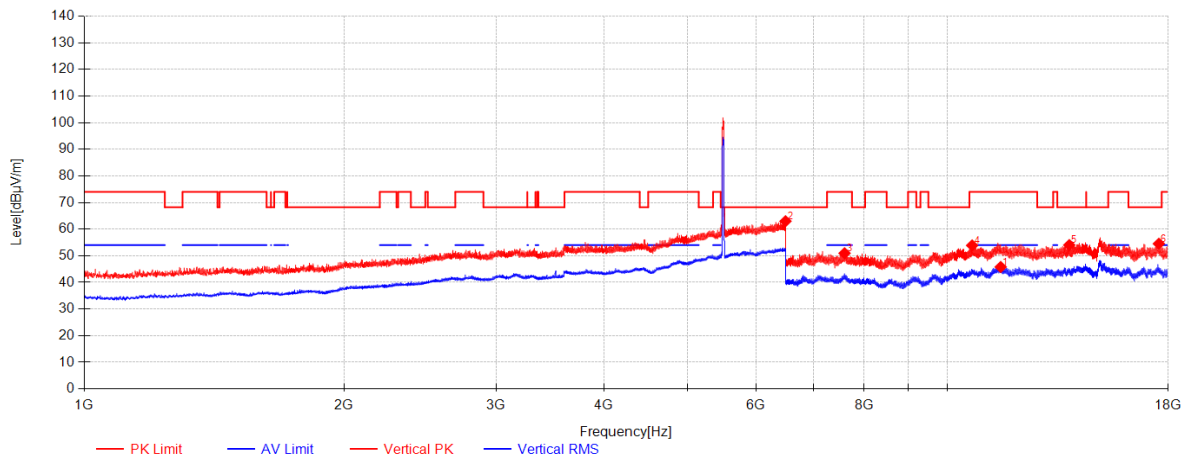
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	15414.4167	43.38	39.46	-36.84	46.00	54.00	8.00	Vertical
2	6388.625	40.98	33.91	-11.56	63.33	68.20	4.87	Vertical
3	7335.2833	54.86	36.77	-40.40	51.23	74.00	22.77	Vertical
4	9680.9	53.26	38.46	-40.02	51.70	68.20	16.50	Vertical
5	11761.6333	54.92	40.02	-40.47	54.47	74.00	19.53	Vertical
6	15060.9833	52.21	40.76	-36.56	56.41	68.20	11.79	Vertical

11ax(HE20)_TX_CH_100_Horizontal_MIMO



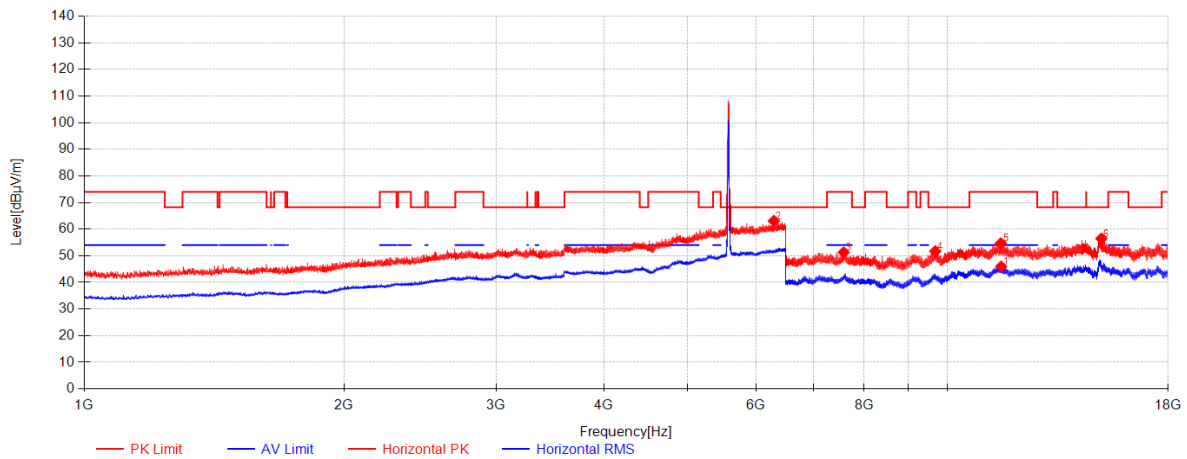
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11402.8333	45.78	40.60	-40.52	45.86	54.00	8.14	Horizontal
2	6406.5	40.11	34.01	-11.55	62.57	68.20	5.63	Horizontal
3	7592.5	55.01	36.87	-40.06	51.82	74.00	22.18	Horizontal
4	10291.1667	54.12	39.36	-40.22	53.26	68.20	14.94	Horizontal
5	12093.6	54.55	39.81	-40.52	53.84	74.00	20.16	Horizontal
6	15044.1167	52.18	40.82	-36.52	56.48	68.20	11.72	Horizontal

11ax(HE20)_TX_CH_100_Verical_MIMO



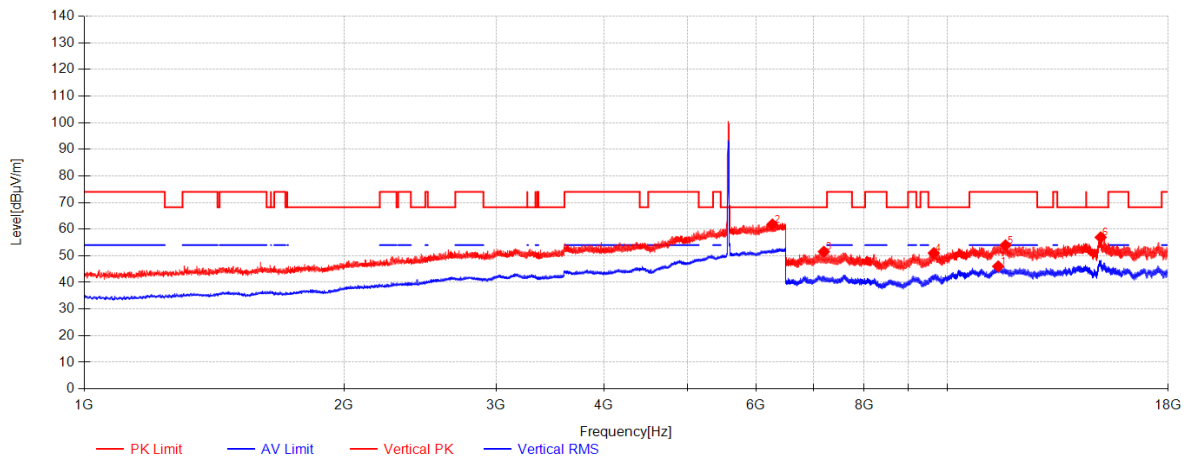
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11521.2833	45.80	40.52	-40.53	45.79	54.00	8.21	Vertical
2	6489.9167	40.15	34.50	-11.66	62.99	68.20	5.21	Vertical
3	7597.1	54.08	36.89	-40.02	50.95	74.00	23.05	Vertical
4	10676.8	54.90	39.15	-40.16	53.89	74.00	20.11	Vertical
5	13832.7833	53.98	40.26	-40.20	54.04	68.20	14.16	Vertical
6	17564.5333	51.94	44.76	-42.17	54.53	68.20	13.67	Vertical

11ax(HE20)_TX_CH_116_Horizontal_MIMO



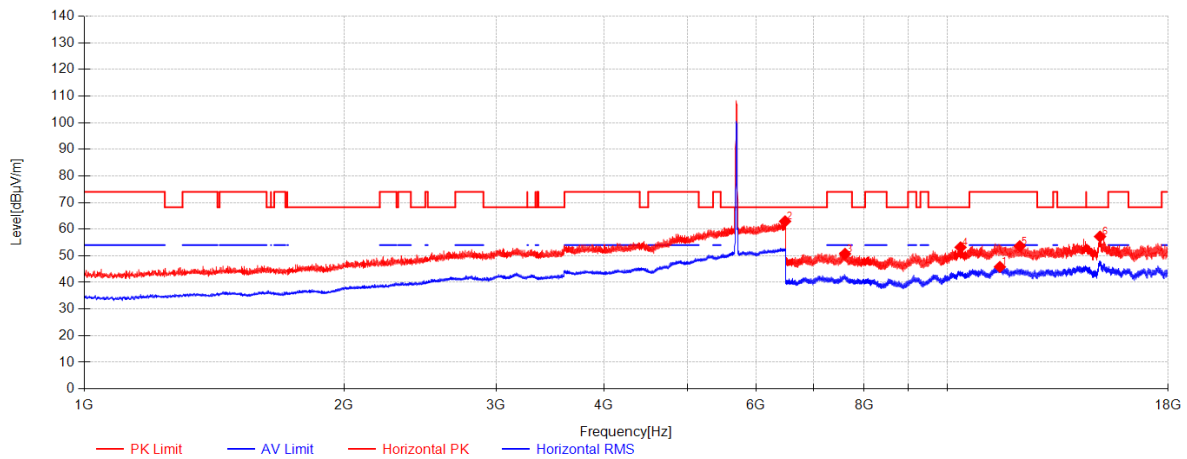
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11534.3167	46.01	40.53	-40.59	45.95	54.00	8.05	Horizontal
2	6291	41.46	33.34	-11.69	63.11	68.20	5.09	Horizontal
3	7580.2333	54.60	36.82	-40.15	51.27	74.00	22.73	Horizontal
4	9676.6833	53.31	38.45	-40.02	51.74	68.20	16.46	Horizontal
5	11523.5833	54.74	40.52	-40.54	54.72	74.00	19.28	Horizontal
6	15071.7167	52.33	40.71	-36.58	56.46	68.20	11.74	Horizontal

11ax(HE20)_TX_CH_116_Verical_MIMO



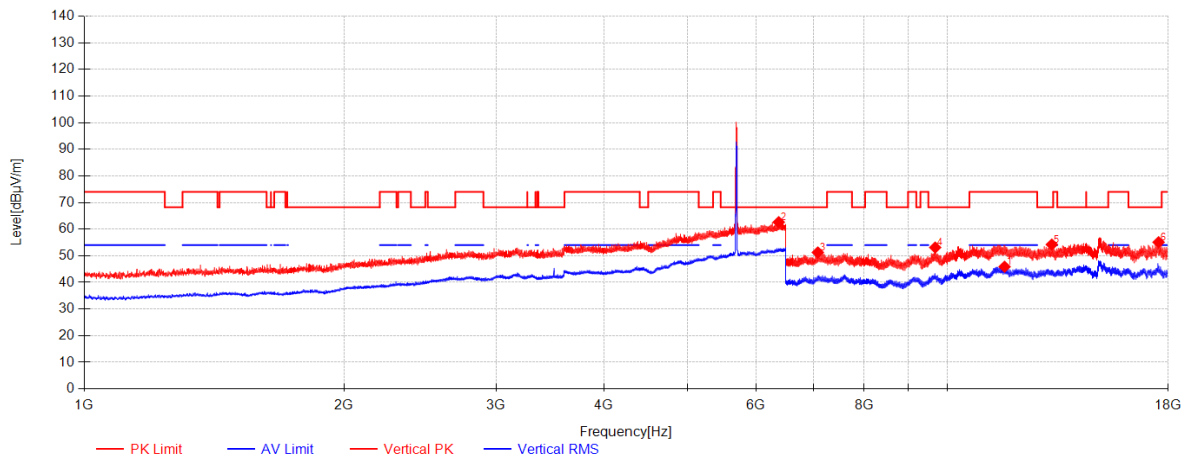
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11443.4667	45.97	40.56	-40.49	46.04	54.00	7.96	Vertical
2	6267.1667	40.05	33.43	-11.70	61.78	68.20	6.42	Vertical
3	7189.2333	55.80	36.26	-40.52	51.54	68.20	16.66	Vertical
4	9638.35	52.72	38.33	-40.03	51.02	68.20	17.18	Vertical
5	11668.8667	54.05	40.32	-40.43	53.94	74.00	20.06	Vertical
6	15041.8167	52.61	40.83	-36.51	56.93	68.20	11.27	Vertical

11ax(HE20)_TX_CH_140_Horizontal_MIMO



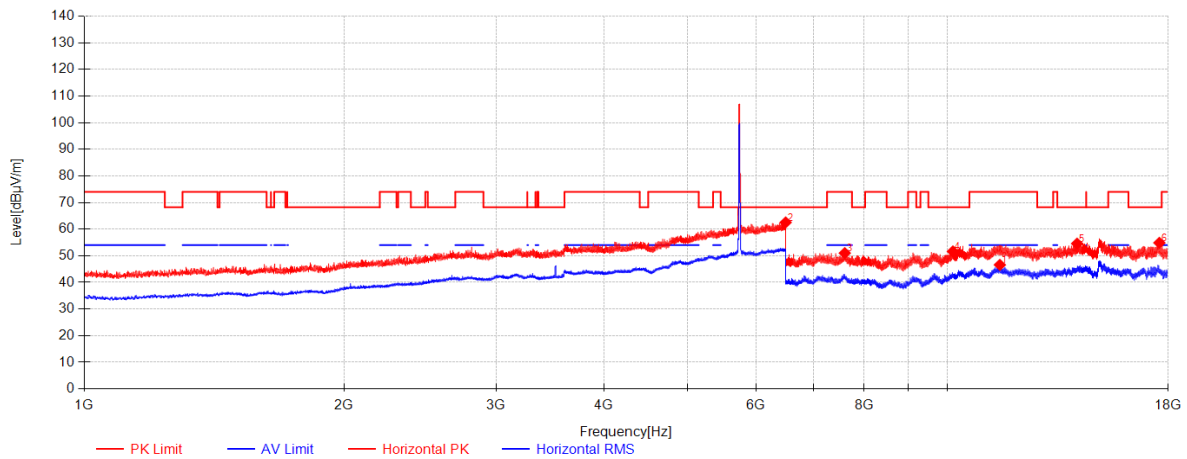
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11495.9833	45.77	40.50	-40.44	45.83	54.00	8.17	Horizontal
2	6482.5833	40.15	34.43	-11.65	62.93	68.20	5.27	Horizontal
3	7607.0667	53.91	36.89	-40.05	50.75	74.00	23.25	Horizontal
4	10351.7333	53.95	39.45	-40.23	53.17	68.20	15.03	Horizontal
5	12121.5833	54.30	39.82	-40.49	53.63	74.00	20.37	Horizontal
6	15016.1333	52.74	40.94	-36.45	57.23	68.20	10.97	Horizontal

11ax(HE20)_TX_CH_140_Verical_MIMO



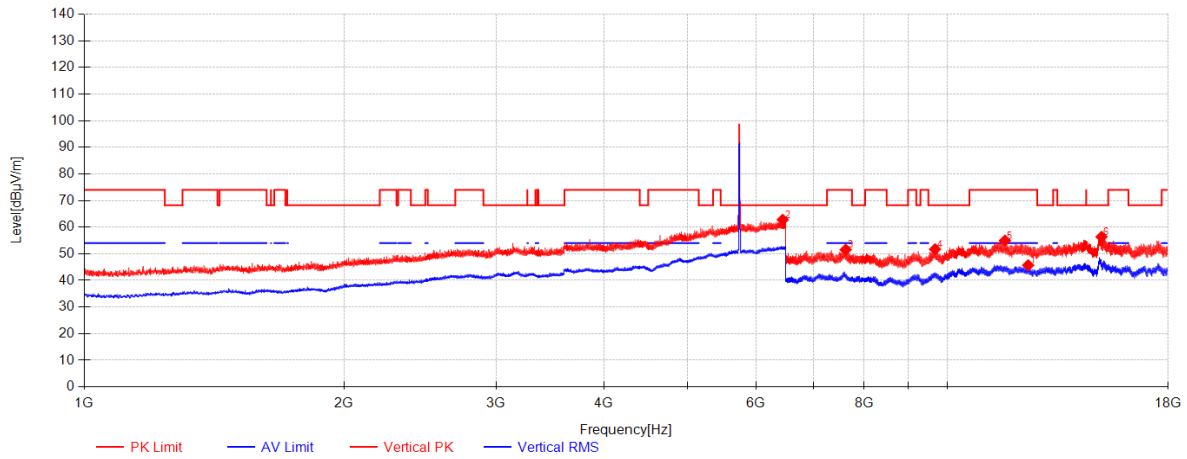
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11640.8833	46.07	40.44	-40.61	45.90	54.00	8.10	Vertical
2	6374.4167	40.42	33.80	-11.58	62.64	68.20	5.56	Vertical
3	7074.2333	55.58	36.05	-40.37	51.26	68.20	16.94	Vertical
4	9674.7667	54.69	38.45	-40.02	53.12	68.20	15.08	Vertical
5	13203.7333	54.83	39.50	-40.11	54.22	68.20	13.98	Vertical
6	17553.4167	52.56	44.71	-42.18	55.09	68.20	13.11	Vertical

11ax(HE20)_TX_CH_149_Horizontal_MIMO



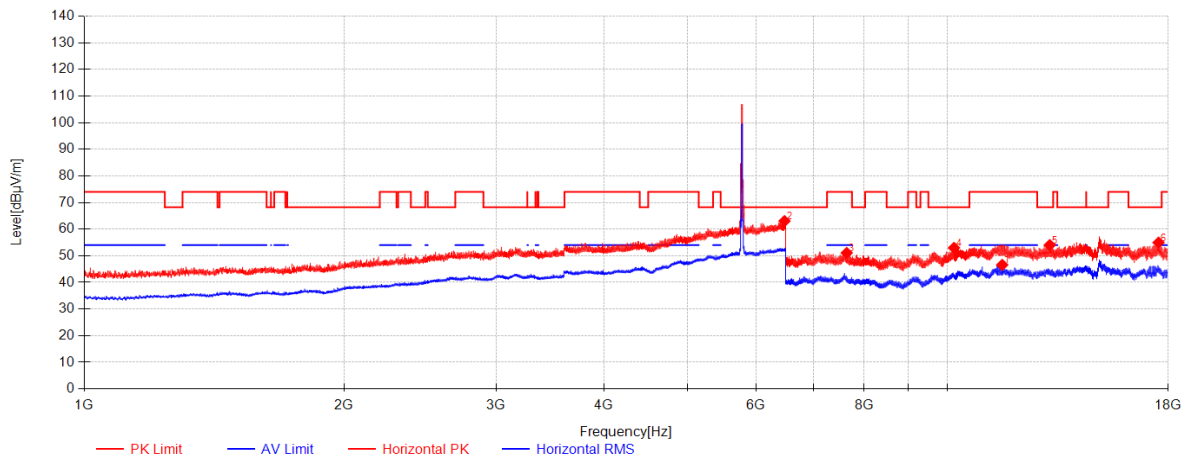
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11495.6	46.53	40.50	-40.44	46.59	54.00	7.41	Horizontal
2	6492.6667	39.66	34.53	-11.66	62.53	68.20	5.67	Horizontal
3	7601.3167	54.11	36.90	-40.01	51.00	74.00	23.00	Horizontal
4	10142.05	53.01	38.71	-40.09	51.63	68.20	16.57	Horizontal
5	14124.5	53.47	41.52	-40.42	54.57	68.20	13.63	Horizontal
6	17589.45	52.15	44.86	-42.14	54.87	68.20	13.33	Horizontal

11ax(HE20)_TX_CH_149_Veritical_MIMO



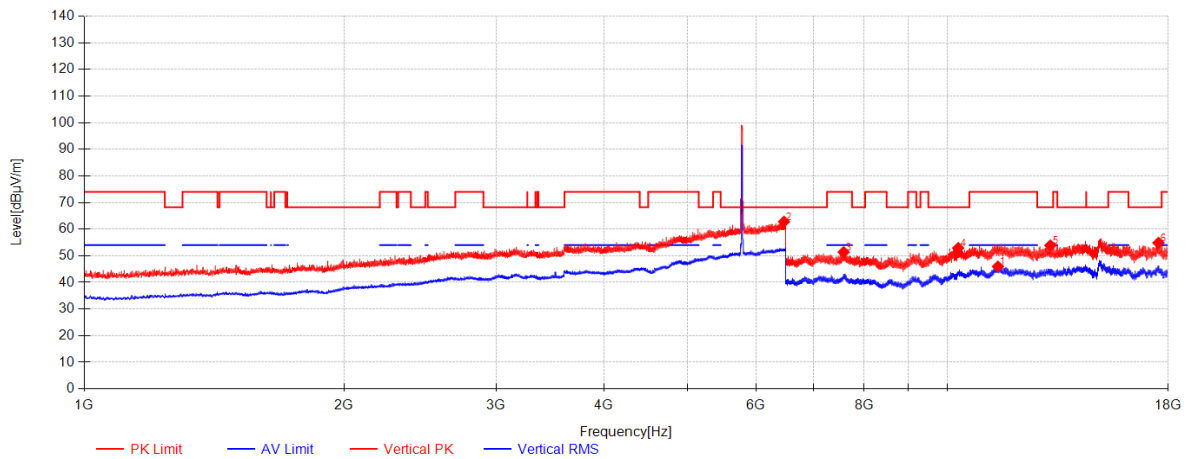
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	12396.05	46.42	39.50	-40.21	45.71	54.00	8.29	Vertical
2	6442.25	40.29	34.08	-11.59	62.78	68.20	5.42	Vertical
3	7619.7167	54.82	36.86	-40.15	51.53	74.00	22.47	Vertical
4	9670.55	53.30	38.44	-40.02	51.72	68.20	16.48	Vertical
5	11650.85	55.10	40.40	-40.54	54.96	74.00	19.04	Vertical
6	15075.9333	52.26	40.70	-36.59	56.37	68.20	11.83	Vertical

11ax(HE20)_TX_CH_157_Horizontal_MIMO



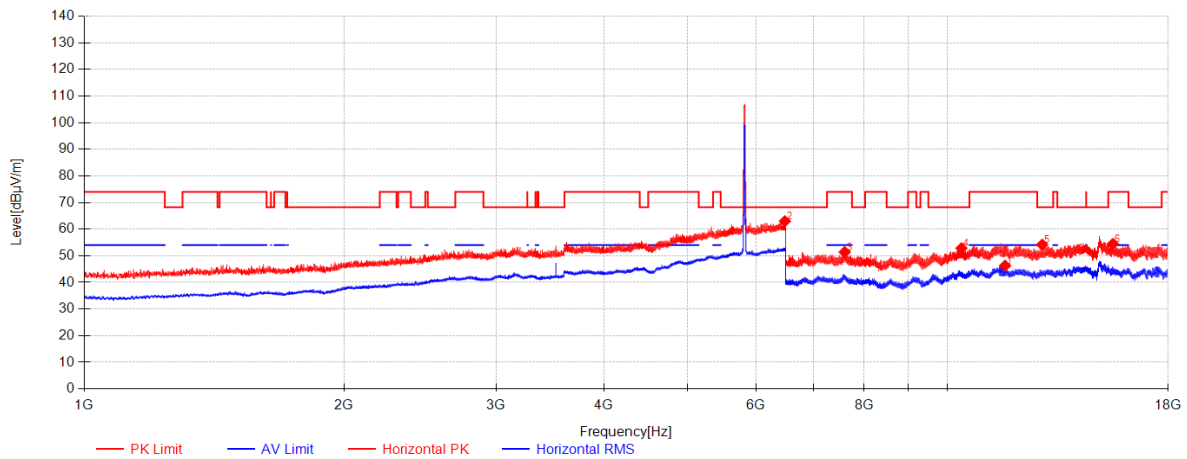
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11567.2833	46.75	40.57	-40.73	46.59	54.00	7.41	Horizontal
2	6472.9583	40.34	34.33	-11.63	63.04	68.20	5.16	Horizontal
3	7641.1833	54.57	36.82	-40.31	51.08	74.00	22.92	Horizontal
4	10172.7167	54.26	38.86	-40.14	52.98	68.20	15.22	Horizontal
5	13129.75	54.53	39.71	-40.21	54.03	68.20	14.17	Horizontal
6	17548.8167	52.44	44.70	-42.18	54.96	68.20	13.24	Horizontal

11ax(HE20)_TX_CH_157_Vertical_MIMO



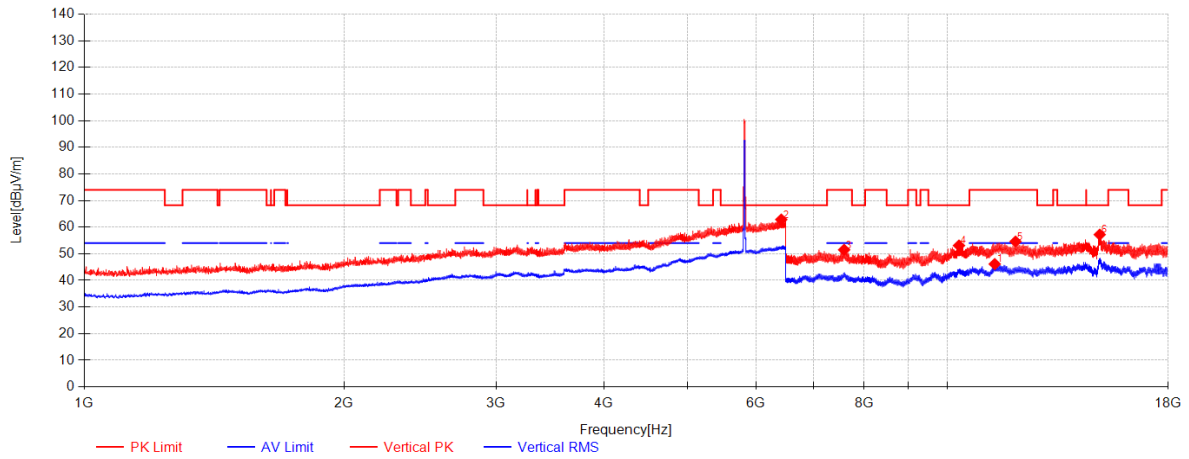
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11435.0333	45.90	40.56	-40.49	45.97	54.00	8.03	Vertical
2	6464.25	40.19	34.24	-11.62	62.81	68.20	5.39	Vertical
3	7579.0833	54.71	36.82	-40.16	51.37	74.00	22.63	Vertical
4	10286.1833	53.80	39.34	-40.22	52.92	68.20	15.28	Vertical
5	13151.6	54.44	39.65	-40.17	53.92	68.20	14.28	Vertical
6	17543.8333	52.39	44.68	-42.19	54.88	68.20	13.32	Vertical

11ax(HE20)_TX_CH_165_Horizontal_MIMO



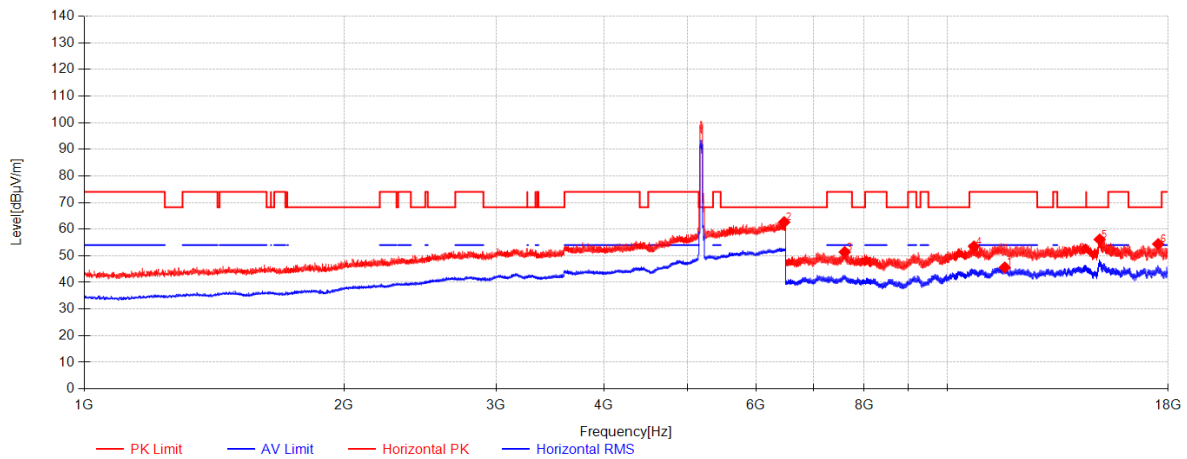
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11656.9833	46.44	40.37	-40.51	46.30	54.00	7.70	Horizontal
2	6478.9167	40.24	34.39	-11.64	62.99	68.20	5.21	Horizontal
3	7600.1667	54.50	36.90	-40.00	51.40	74.00	22.60	Horizontal
4	10375.8833	53.58	39.48	-40.23	52.83	68.20	15.37	Horizontal
5	12868.3167	55.22	39.16	-40.21	54.17	68.20	14.03	Horizontal
6	15535.55	51.95	39.06	-36.54	54.47	74.00	19.53	Horizontal

11ax(HE20)_TX_CH_165_Verical_MIMO



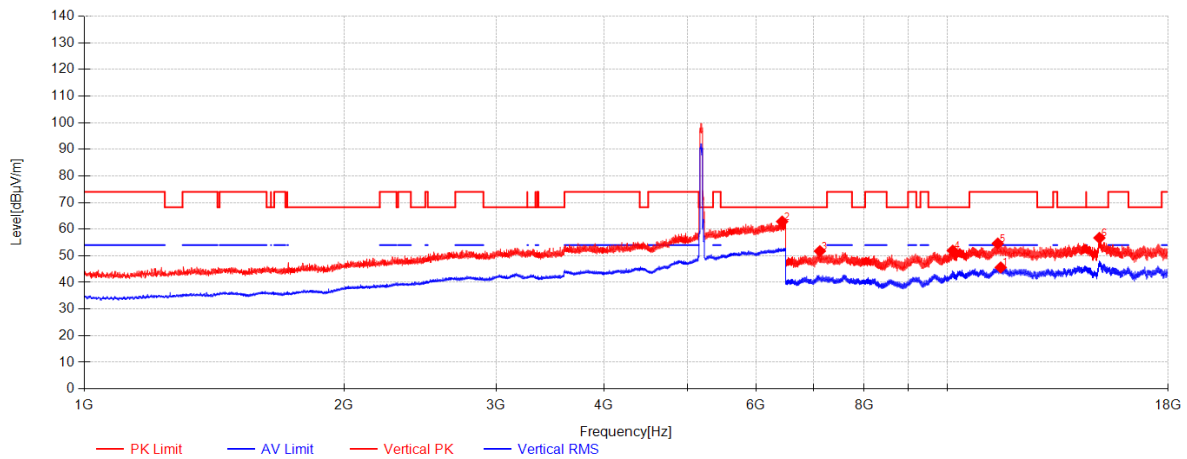
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11338.05	46.52	40.48	-40.85	46.15	54.00	7.85	Vertical
2	6417.5	40.39	34.03	-11.56	62.86	68.20	5.34	Vertical
3	7588.6667	54.74	36.85	-40.09	51.50	74.00	22.50	Vertical
4	10308.0333	53.91	39.41	-40.22	53.10	68.20	15.10	Vertical
5	11985.5	55.10	39.86	-40.35	54.61	74.00	19.39	Vertical
6	15002.7167	52.64	40.99	-36.42	57.21	68.20	10.99	Vertical

11ax(HE40)_TX_CH_38_Horizontal_MIMO



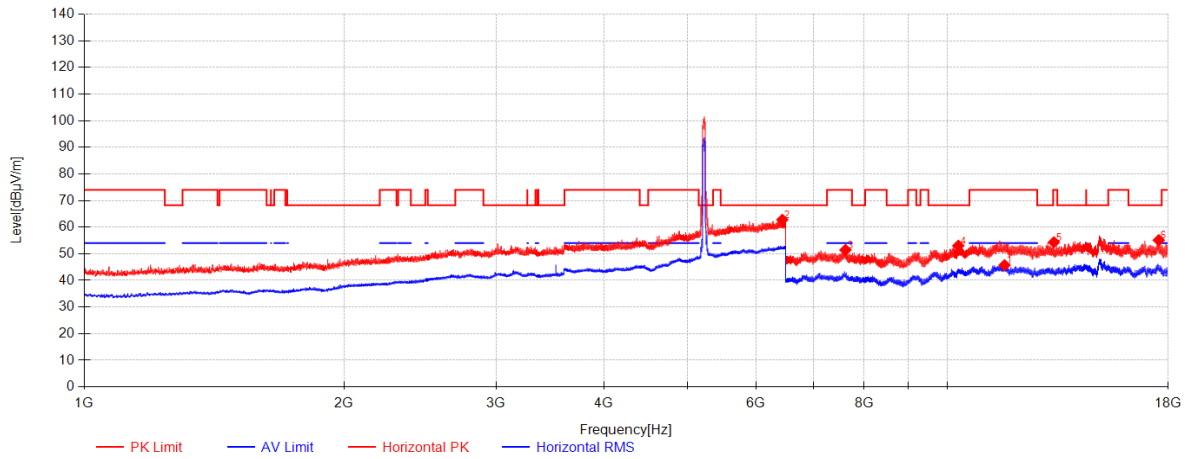
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11647.0167	45.80	40.41	-40.57	45.64	54.00	8.36	Horizontal
2	6466.5417	40.00	34.27	-11.63	62.64	68.20	5.56	Horizontal
3	7600.1667	54.51	36.90	-40.00	51.41	74.00	22.59	Horizontal
4	10729.3167	54.56	39.23	-40.28	53.51	74.00	20.49	Horizontal
5	15001.95	51.53	40.99	-36.41	56.11	68.20	12.09	Horizontal
6	17533.4833	51.98	44.63	-42.20	54.41	68.20	13.79	Horizontal

11ax(HE40)_TX_CH_38_Vertical_MIMO



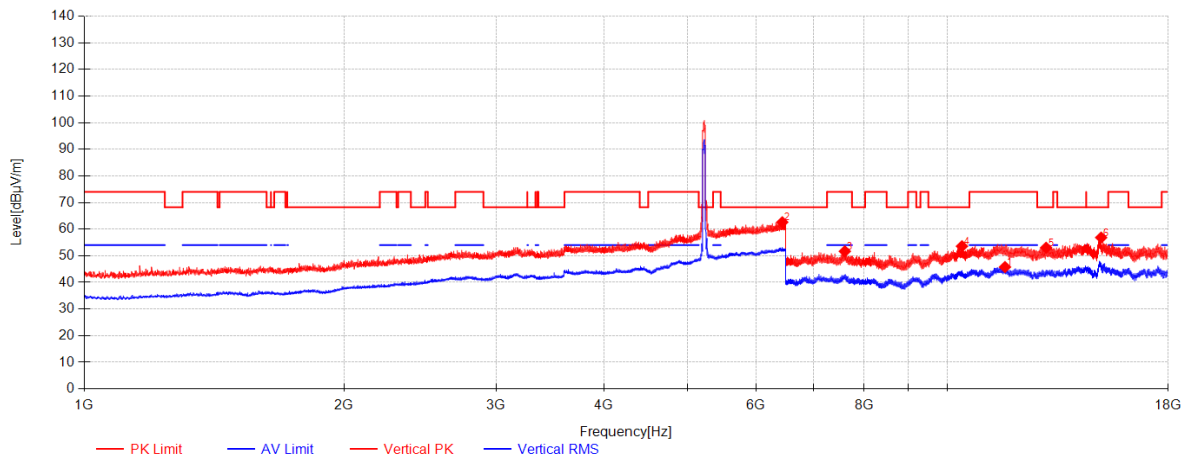
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11521.6667	45.63	40.52	-40.53	45.62	54.00	8.38	Vertical
2	6432.1667	40.38	34.06	-11.58	62.86	68.20	5.34	Vertical
3	7113.3333	55.78	36.17	-40.20	51.75	68.20	16.45	Vertical
4	10138.2167	53.34	38.69	-40.08	51.95	68.20	16.25	Vertical
5	11431.5833	54.55	40.57	-40.49	54.63	74.00	19.37	Vertical
6	14990.0667	52.51	41.03	-36.82	56.72	68.20	11.48	Vertical

11ax(HE40)_TX_CH_46_Horizontal_MIMO



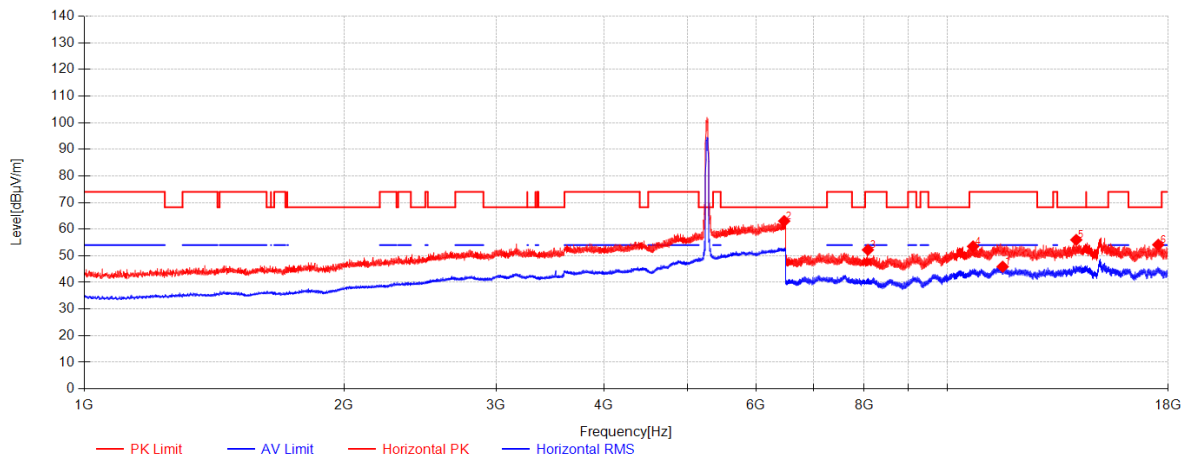
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11639.7333	45.91	40.44	-40.62	45.73	54.00	8.27	Horizontal
2	6435.8333	40.32	34.07	-11.59	62.80	68.20	5.40	Horizontal
3	7616.2667	54.69	36.87	-40.12	51.44	74.00	22.56	Horizontal
4	10289.25	53.89	39.36	-40.22	53.03	68.20	15.17	Horizontal
5	13278.1	55.31	39.58	-40.55	54.34	74.00	19.66	Horizontal
6	17559.9333	52.54	44.74	-42.17	55.11	68.20	13.09	Horizontal

11ax(HE40)_TX_CH_46_Vertical_MIMO



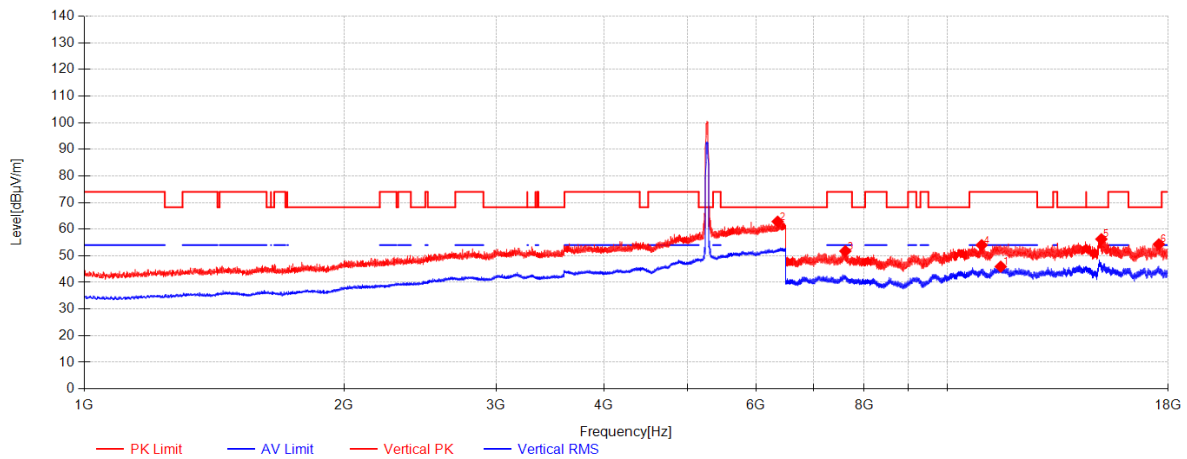
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11653.15	45.91	40.39	-40.53	45.77	54.00	8.23	Vertical
2	6434.4583	40.12	34.07	-11.58	62.61	68.20	5.59	Vertical
3	7602.4667	54.79	36.90	-40.02	51.67	74.00	22.33	Vertical
4	10390.45	54.34	39.49	-40.23	53.60	68.20	14.60	Vertical
5	13004.4	53.77	39.51	-40.25	53.03	68.20	15.17	Vertical
6	15059.8333	52.64	40.76	-36.55	56.85	68.20	11.35	Vertical

11ax(HE40)_TX_CH_54_Horizontal_MIMO



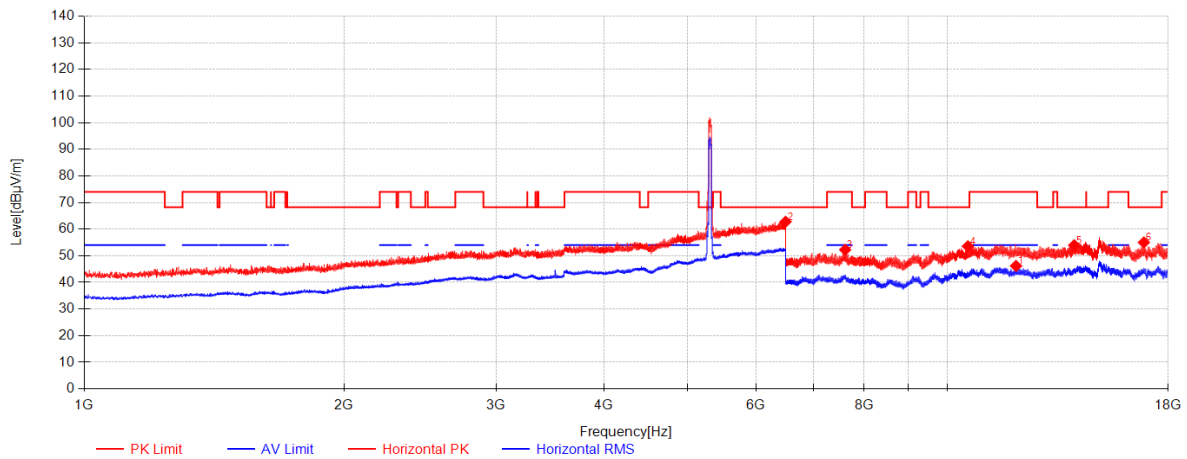
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11581.4667	46.13	40.58	-40.79	45.92	54.00	8.08	Horizontal
2	6467	40.41	34.27	-11.63	63.05	68.20	5.15	Horizontal
3	8085.0833	56.13	36.37	-40.26	52.24	74.00	21.76	Horizontal
4	10702.1	54.47	39.20	-40.16	53.51	74.00	20.49	Horizontal
5	14092.6833	54.98	41.46	-40.45	55.99	68.20	12.21	Horizontal
6	17536.1667	51.70	44.64	-42.19	54.15	68.20	14.05	Horizontal

11ax(HE40)_TX_CH_54_Vertical_MIMO



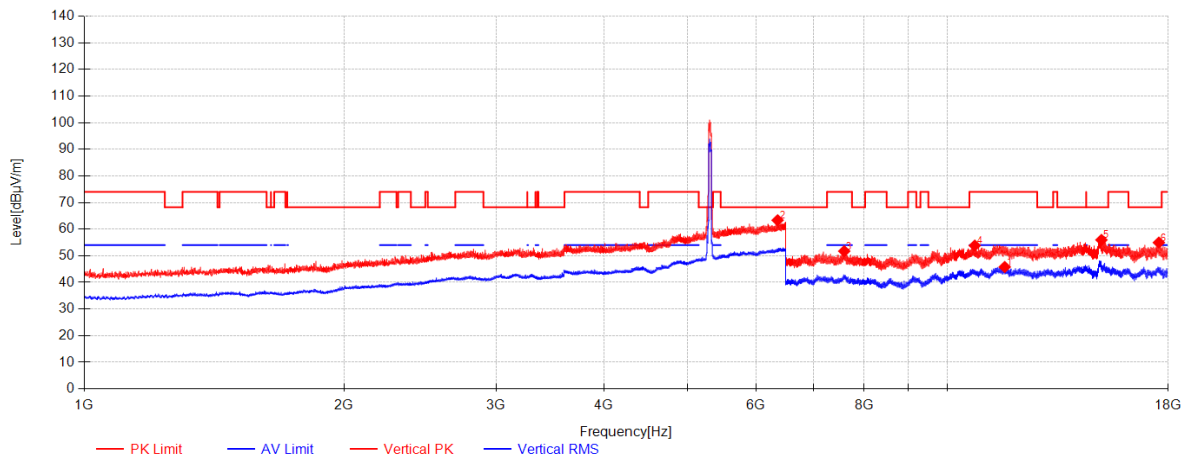
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11523.9667	45.95	40.52	-40.54	45.93	54.00	8.07	Vertical
2	6355.625	40.81	33.64	-11.61	62.84	68.20	5.36	Vertical
3	7613.5833	54.99	36.87	-40.10	51.76	74.00	22.24	Vertical
4	10950.5	54.68	40.15	-40.81	54.02	74.00	19.98	Vertical
5	15069.8	52.12	40.72	-36.58	56.26	68.20	11.94	Vertical
6	17566.0667	51.75	44.76	-42.16	54.35	68.20	13.85	Vertical

11ax(HE40)_TX_CH_62_Horizontal_MIMO



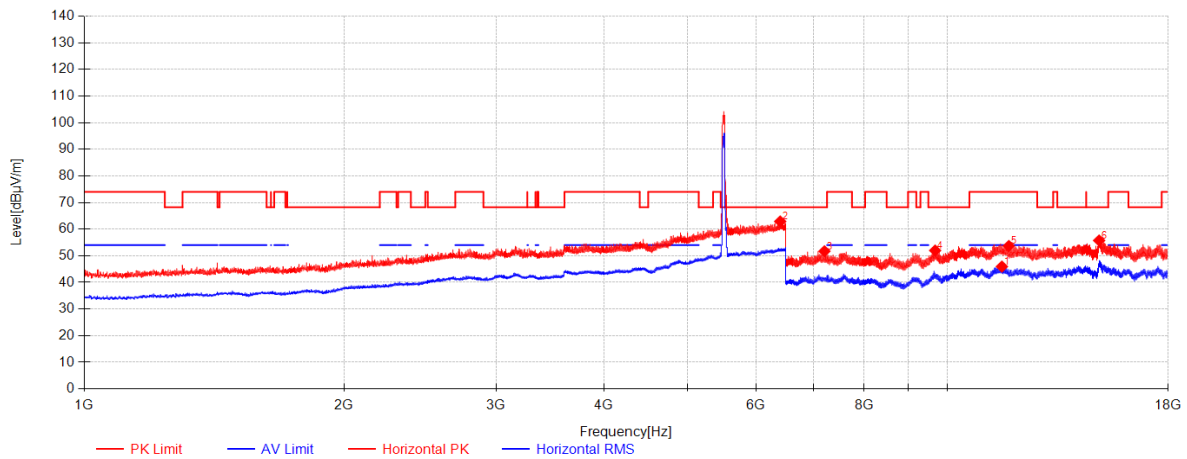
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	12000.0667	46.64	39.90	-40.35	46.19	54.00	7.81	Horizontal
2	6491.75	39.93	34.52	-11.66	62.79	68.20	5.41	Horizontal
3	7610.1333	55.48	36.88	-40.08	52.28	74.00	21.72	Horizontal
4	10555.6667	54.96	39.09	-40.47	53.58	68.20	14.62	Horizontal
5	14016.0167	53.05	41.00	-40.09	53.96	68.20	14.24	Horizontal
6	16877.9833	53.33	40.37	-38.69	55.01	68.20	13.19	Horizontal

11ax(HE40)_TX_CH_62_Vertical_MIMO



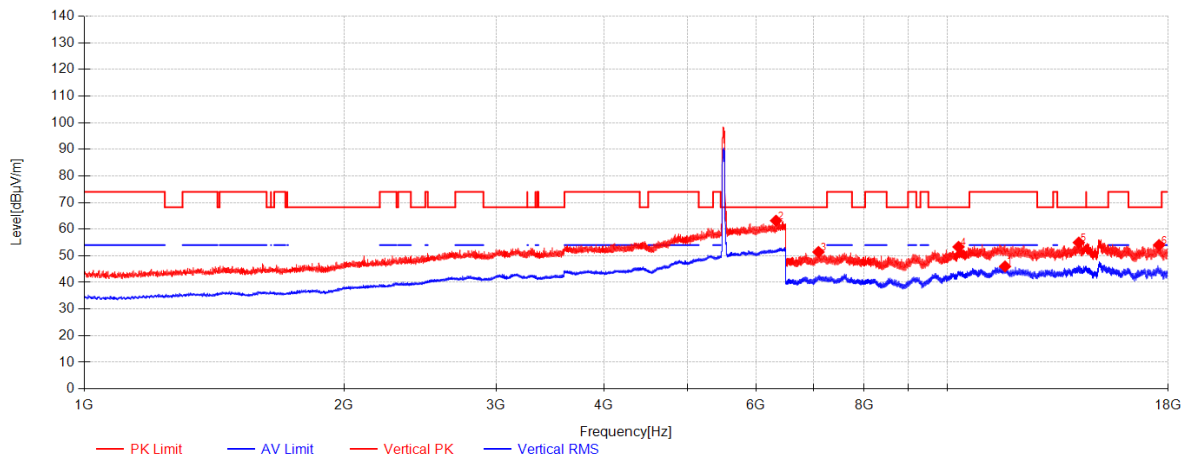
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11645.1	45.96	40.42	-40.58	45.80	54.00	8.20	Vertical
2	6354.7083	41.33	33.64	-11.61	63.36	68.20	4.84	Vertical
3	7590.9667	54.95	36.86	-40.07	51.74	74.00	22.26	Vertical
4	10750.7833	54.96	39.25	-40.37	53.84	74.00	20.16	Vertical
5	15071.7167	51.83	40.71	-36.58	55.96	68.20	12.24	Vertical
6	17565.6833	52.36	44.76	-42.16	54.96	68.20	13.24	Vertical

11ax(HE40)_TX_CH_102_Horizontal_MIMO



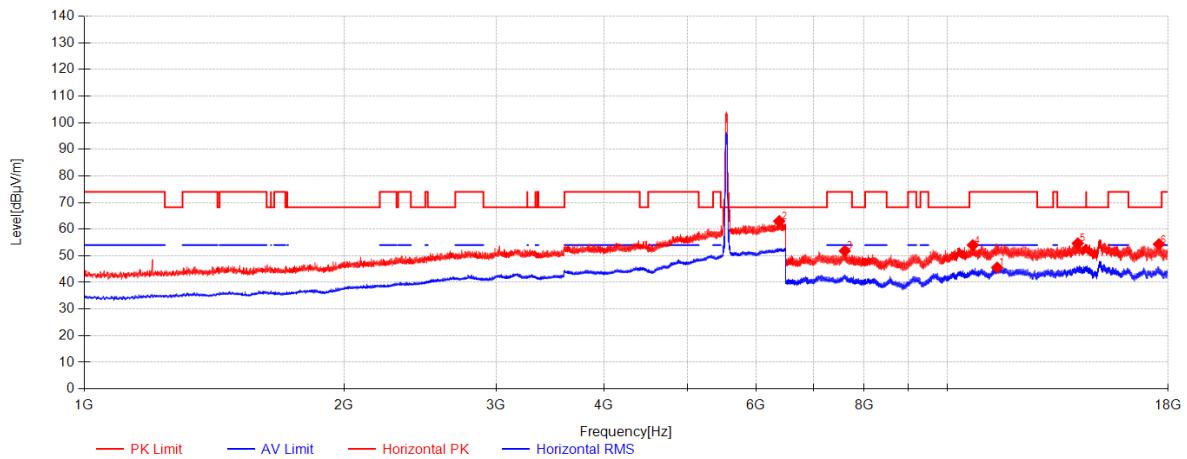
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11556.9333	46.07	40.56	-40.68	45.95	54.00	8.05	Horizontal
2	6399.1667	40.46	33.99	-11.54	62.91	68.20	5.29	Horizontal
3	7200.7333	55.98	36.30	-40.56	51.72	68.20	16.48	Horizontal
4	9672.85	53.56	38.45	-40.02	51.99	68.20	16.21	Horizontal
5	11773.9	54.26	39.98	-40.52	53.72	74.00	20.28	Horizontal
6	14978.5667	51.98	41.06	-37.30	55.74	68.20	12.46	Horizontal

11ax(HE40)_TX_CH_102_Vertical_MIMO



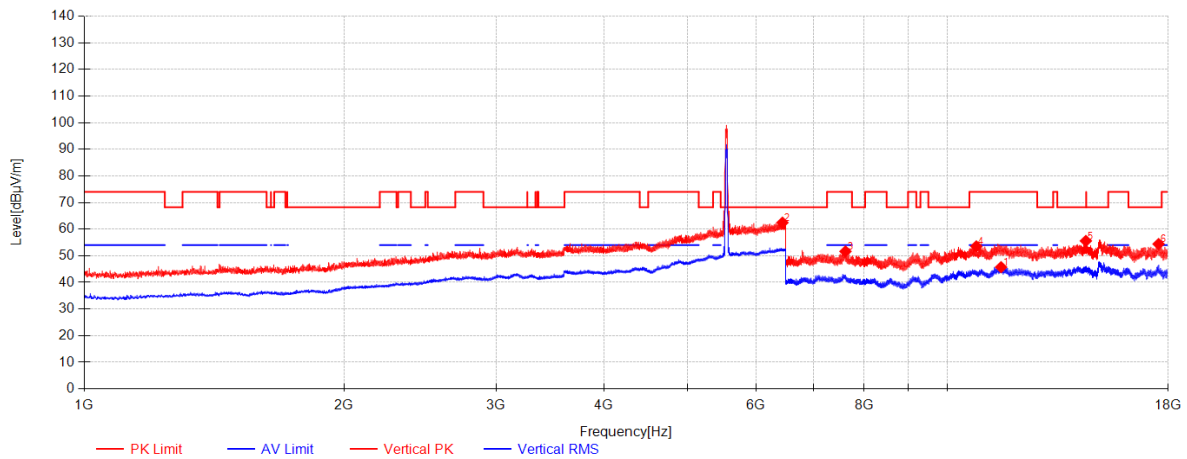
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11655.45	46.15	40.38	-40.52	46.01	54.00	7.99	Vertical
2	6328.5833	41.37	33.47	-11.65	63.19	68.20	5.01	Vertical
3	7086.5	55.56	36.12	-40.26	51.42	68.20	16.78	Vertical
4	10295.3833	54.18	39.38	-40.22	53.34	68.20	14.86	Vertical
5	14189.2833	53.62	41.59	-40.23	54.98	68.20	13.22	Vertical
6	17574.8833	51.39	44.80	-42.16	54.03	68.20	14.17	Vertical

11ax(HE40)_TX_CH_110_Horizontal_MIMO



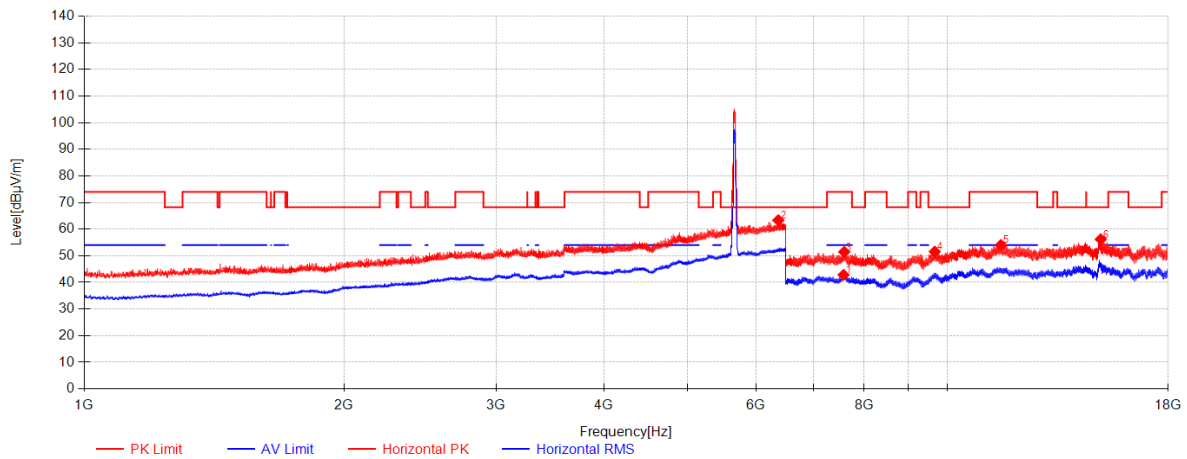
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11412.4167	45.50	40.59	-40.51	45.58	54.00	8.42	Horizontal
2	6382.6667	40.72	33.86	-11.57	63.01	68.20	5.19	Horizontal
3	7601.3167	54.95	36.90	-40.01	51.84	74.00	22.16	Horizontal
4	10695.2	54.94	39.19	-40.15	53.98	74.00	20.02	Horizontal
5	14148.2667	53.47	41.55	-40.35	54.67	68.20	13.53	Horizontal
6	17568.75	51.72	44.78	-42.16	54.34	68.20	13.86	Horizontal

11ax(HE40)_TX_CH_110_Vertical_MIMO



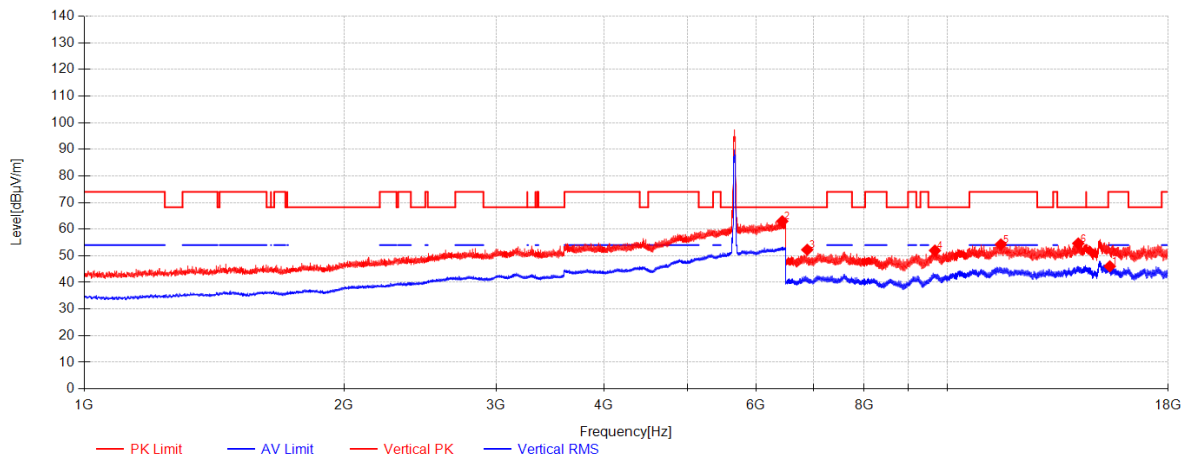
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11532.7833	45.78	40.53	-40.58	45.73	54.00	8.27	Vertical
2	6437.6667	39.98	34.08	-11.59	62.47	68.20	5.73	Vertical
3	7615.5	54.88	36.87	-40.12	51.63	74.00	22.37	Vertical
4	10796.0167	54.82	39.30	-40.56	53.56	74.00	20.44	Vertical
5	14458.7667	54.28	41.72	-40.42	55.58	68.20	12.62	Vertical
6	17551.5	51.91	44.71	-42.18	54.44	68.20	13.76	Vertical

11ax(HE40)_TX_CH_134_Horizontal_MIMO



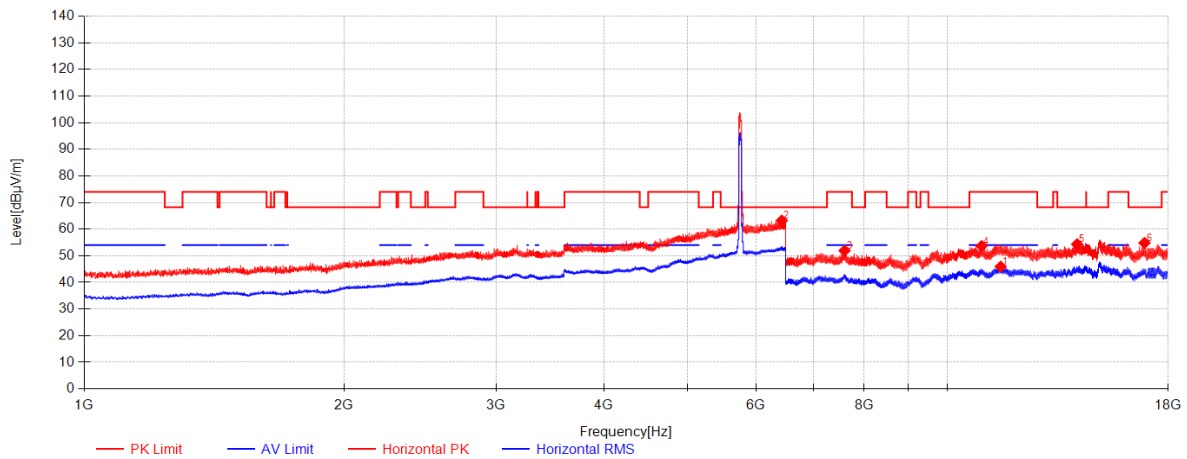
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7577.1667	46.20	36.81	-40.17	42.84	54.00	11.16	Horizontal
2	6366.625	41.21	33.73	-11.59	63.35	68.20	4.85	Horizontal
3	7591.35	54.63	36.87	-40.06	51.44	74.00	22.56	Horizontal
4	9663.2667	53.18	38.43	-40.02	51.59	68.20	16.61	Horizontal
5	11525.8833	54.06	40.53	-40.55	54.04	74.00	19.96	Horizontal
6	15043.7333	51.88	40.83	-36.51	56.20	68.20	12.00	Horizontal

11ax(HE40)_TX_CH_134_Verical_MIMO



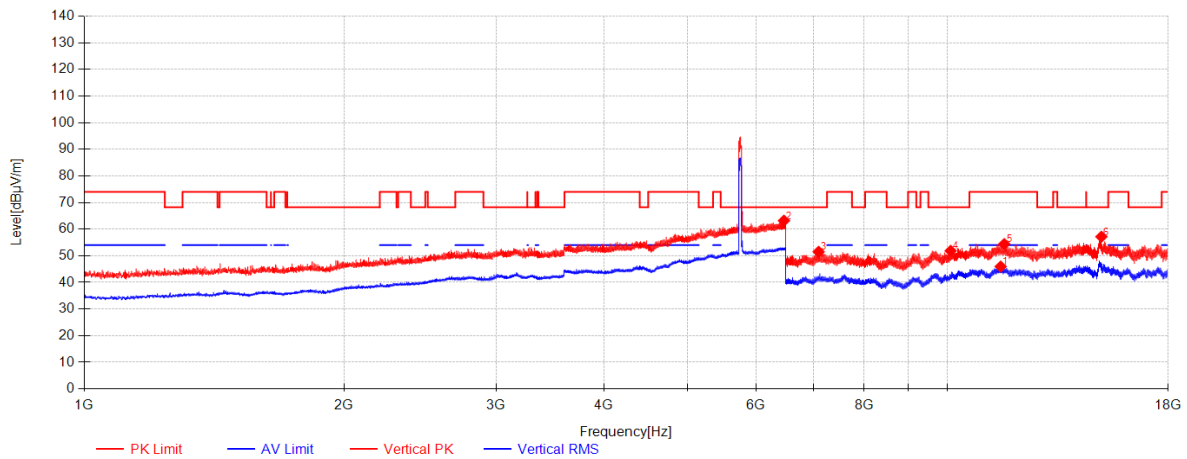
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	15412.1167	43.44	39.46	-36.85	46.05	54.00	7.95	Vertical
2	6434.4583	40.49	34.07	-11.58	62.98	68.20	5.22	Vertical
3	6877.5833	56.69	35.79	-40.21	52.27	68.20	15.93	Vertical
4	9667.8667	53.56	38.44	-40.02	51.98	68.20	16.22	Vertical
5	11527.4167	54.31	40.53	-40.56	54.28	74.00	19.72	Vertical
6	14169.7333	53.36	41.57	-40.29	54.64	68.20	13.56	Vertical

11ax(HE40)_TX_CH_151_Horizontal_MIMO



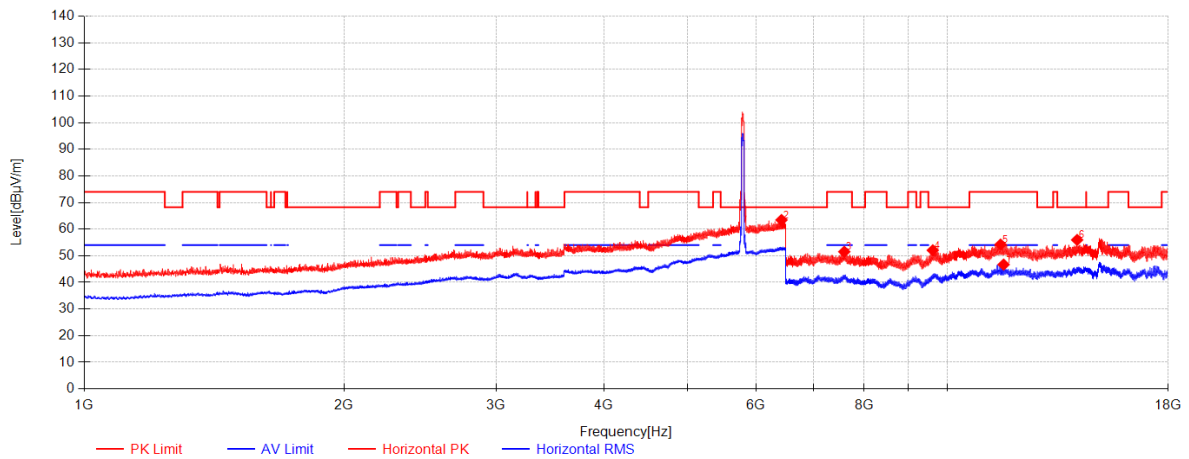
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11520.5167	45.93	40.52	-40.53	45.92	54.00	8.08	Horizontal
2	6425.2917	40.75	34.05	-11.57	63.23	68.20	4.97	Horizontal
3	7596.7167	55.06	36.89	-40.02	51.93	74.00	22.07	Horizontal
4	10949.35	54.35	40.15	-40.81	53.69	74.00	20.31	Horizontal
5	14124.1167	53.25	41.52	-40.42	54.35	68.20	13.85	Horizontal
6	16902.9	53.07	40.51	-38.76	54.82	68.20	13.38	Horizontal

11ax(HE40)_TX_CH_151_Vertical_MIMO



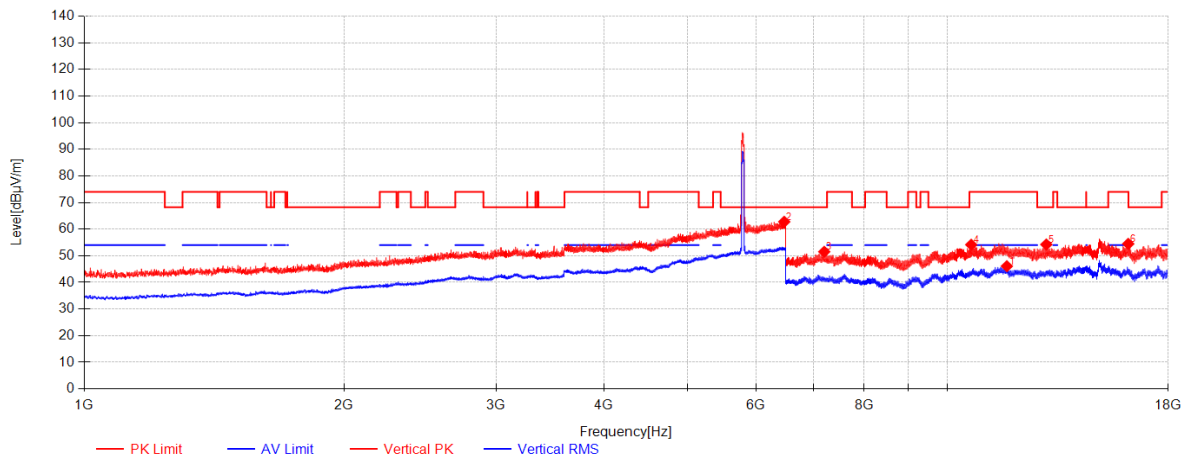
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11520.5167	45.97	40.52	-40.53	45.96	54.00	8.04	Vertical
2	6462.4167	40.59	34.22	-11.62	63.19	68.20	5.01	Vertical
3	7089.5667	55.61	36.14	-40.24	51.51	68.20	16.69	Vertical
4	10081.1	53.41	38.48	-40.02	51.87	68.20	16.33	Vertical
5	11630.9167	54.60	40.48	-40.67	54.41	74.00	19.59	Vertical
6	15069.0333	53.03	40.72	-36.58	57.17	68.20	11.03	Vertical

11ax(HE40)_TX_CH_159_Horizontal_MIMO



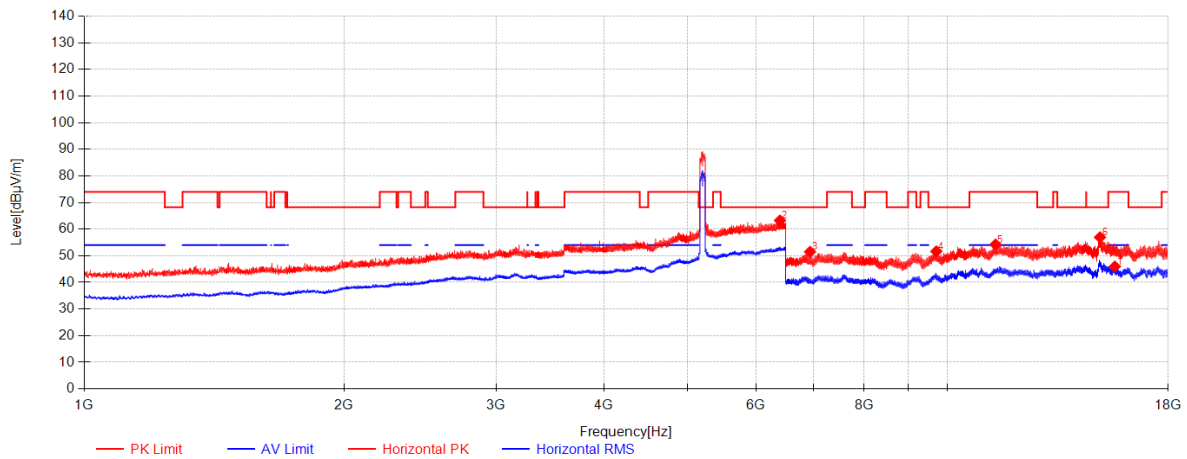
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11610.9833	46.94	40.56	-40.80	46.70	54.00	7.30	Horizontal
2	6420.7083	40.97	34.04	-11.57	63.44	68.20	4.76	Horizontal
3	7591.35	54.72	36.87	-40.06	51.53	74.00	22.47	Horizontal
4	9612.6667	53.95	38.18	-40.04	52.09	68.20	16.11	Horizontal
5	11515.15	54.23	40.52	-40.51	54.24	74.00	19.76	Horizontal
6	14125.2667	54.85	41.53	-40.42	55.96	68.20	12.24	Horizontal

11ax(HE40)_TX_CH_159_Verical_MIMO



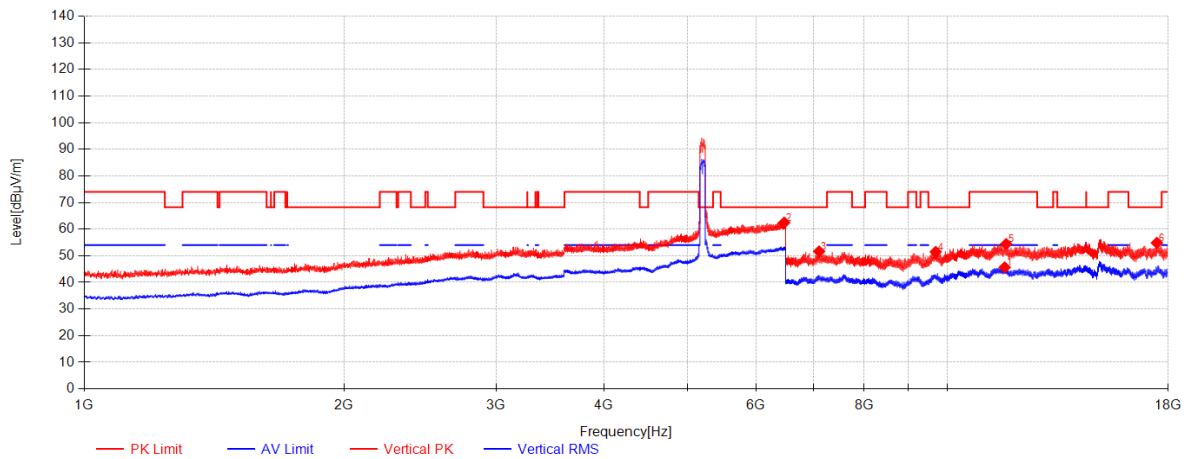
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11711.8	46.22	40.16	-40.28	46.10	54.00	7.90	Vertical
2	6468.375	40.13	34.28	-11.63	62.78	68.20	5.42	Vertical
3	7196.5167	55.79	36.29	-40.55	51.53	68.20	16.67	Vertical
4	10650.35	55.23	39.10	-40.17	54.16	74.00	19.84	Vertical
5	13010.9167	54.97	39.53	-40.25	54.25	68.20	13.95	Vertical
6	16189.5167	52.37	38.40	-36.28	54.49	74.00	19.51	Vertical

11ax(HE80)_TX_CH_42_Horizontal_MIMO



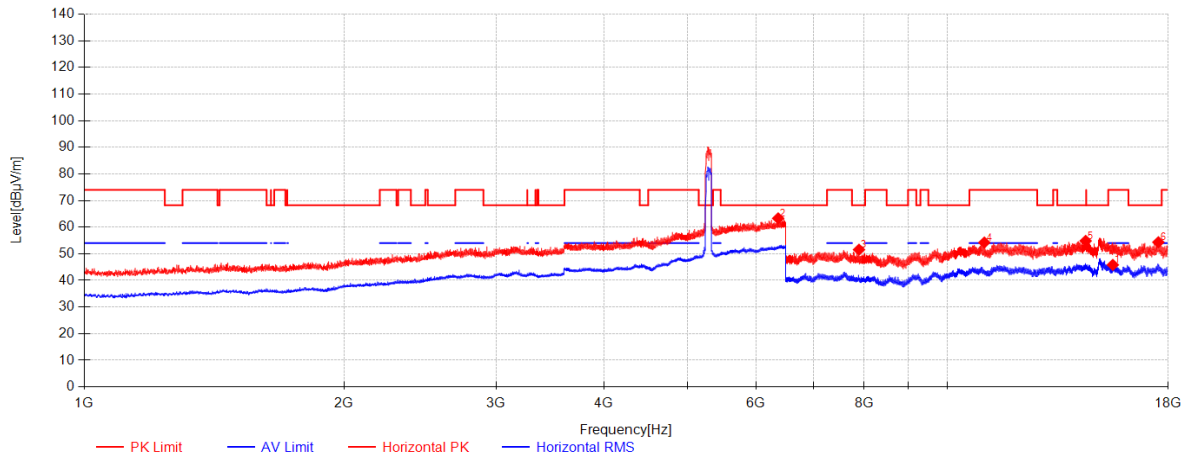
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	15620.2667	43.85	38.80	-36.69	45.96	54.00	8.04	Horizontal
2	6395.5	40.85	33.96	-11.55	63.26	68.20	4.94	Horizontal
3	6929.3333	56.33	35.64	-40.46	51.51	68.20	16.69	Horizontal
4	9705.05	53.21	38.51	-40.06	51.66	68.20	16.54	Horizontal
5	11362.5833	54.43	40.53	-40.72	54.24	74.00	19.76	Horizontal
6	15013.45	52.45	40.95	-36.44	56.96	68.20	11.24	Horizontal

11ax(HE80)_TX_CH_42_Veritical_MIMO



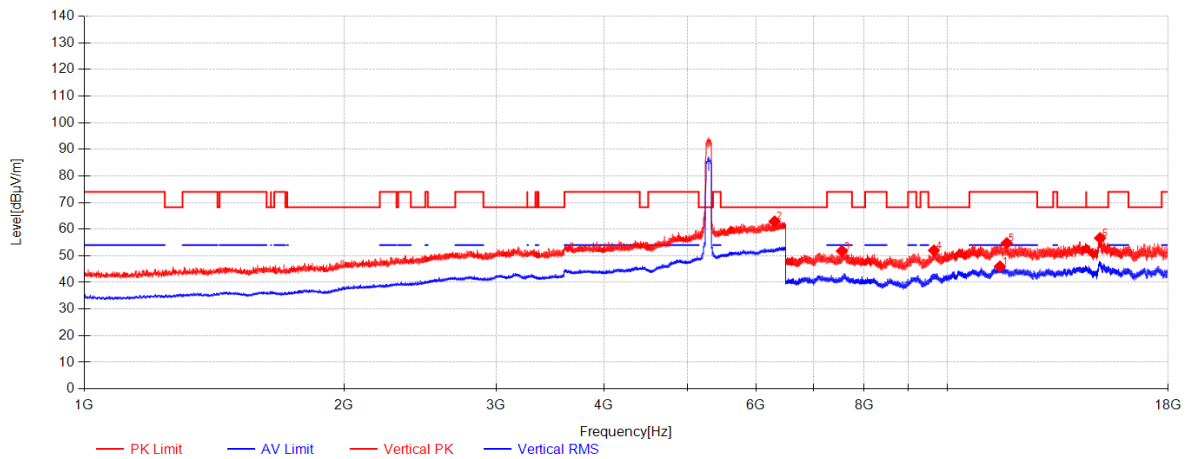
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11644.7167	45.82	40.42	-40.58	45.66	54.00	8.34	Vertical
2	6468.8333	39.82	34.29	-11.63	62.48	68.20	5.72	Vertical
3	7098.3833	55.62	36.19	-40.16	51.65	68.20	16.55	Vertical
4	9687.0333	53.04	38.47	-40.02	51.49	68.20	16.71	Vertical
5	11689.5667	54.50	40.24	-40.30	54.44	74.00	19.56	Vertical
6	17472.15	52.85	44.42	-42.41	54.86	68.20	13.34	Vertical

11ax(HE80)_TX_CH_58_Horizontal_MIMO



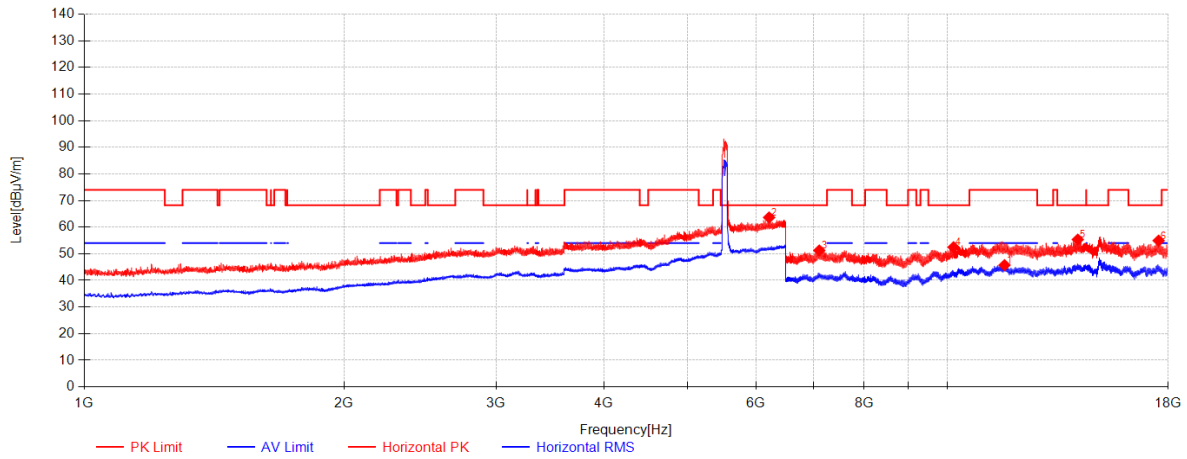
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	15536.3167	43.34	39.05	-36.54	45.85	54.00	8.15	Horizontal
2	6363.875	41.20	33.71	-11.59	63.32	68.20	4.88	Horizontal
3	7894.5667	55.04	36.78	-40.28	51.54	68.20	16.66	Horizontal
4	11028.3167	55.06	40.43	-41.25	54.24	74.00	19.76	Horizontal
5	14450.7167	53.53	41.75	-40.44	54.84	68.20	13.36	Horizontal
6	17542.3	51.88	44.67	-42.19	54.36	68.20	13.84	Horizontal

11ax(HE80)_TX_CH_58_Vertical_MIMO



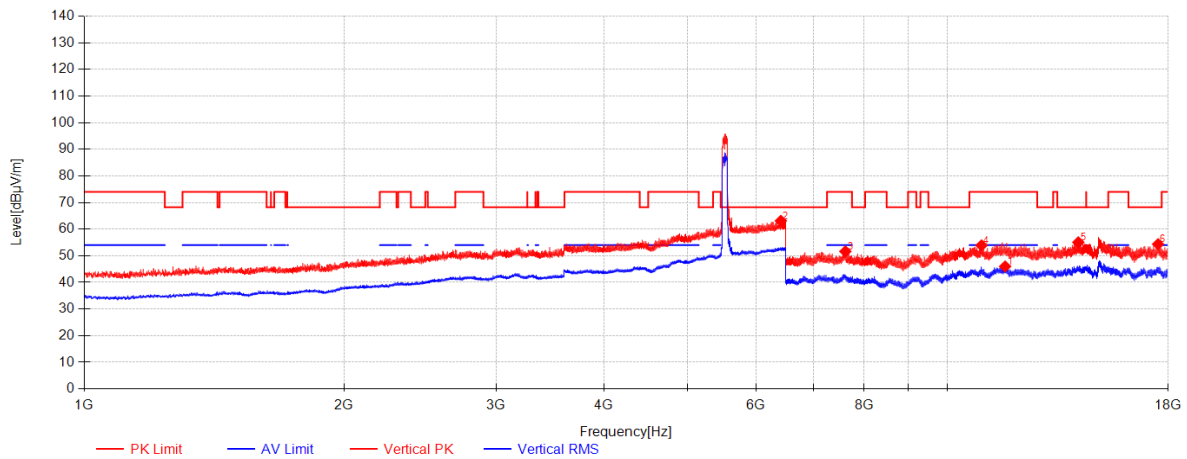
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11497.1333	45.94	40.50	-40.44	46.00	54.00	8.00	Vertical
2	6303.8333	41.27	33.32	-11.68	62.91	68.20	5.29	Vertical
3	7544.5833	55.48	36.72	-40.42	51.78	74.00	22.22	Vertical
4	9642.1833	53.72	38.35	-40.03	52.04	68.20	16.16	Vertical
5	11707.5833	54.84	40.18	-40.26	54.76	74.00	19.24	Vertical
6	15016.5167	52.18	40.93	-36.45	56.66	68.20	11.54	Vertical

11ax(HE80)_TX_CH_106_Horizontal_MIMO



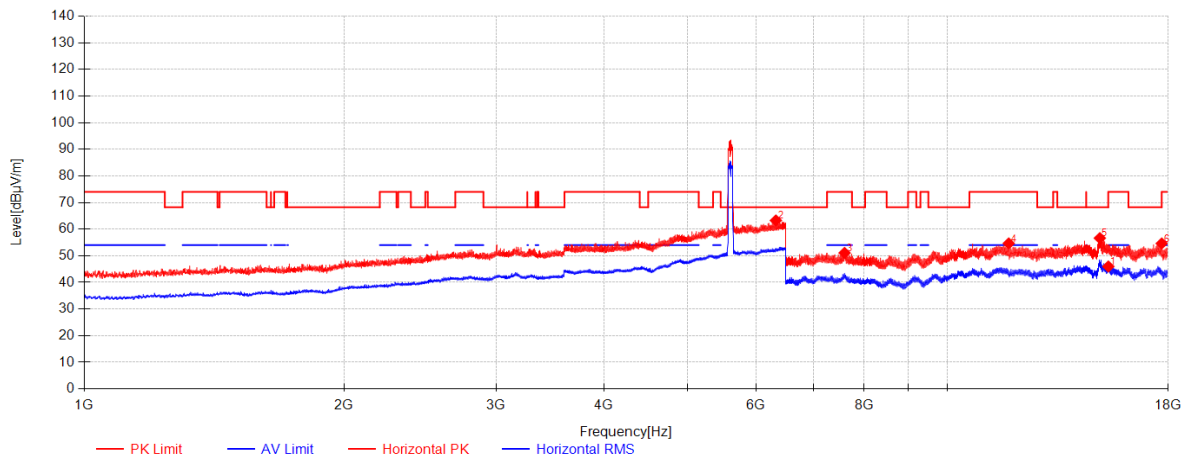
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11638.9667	45.92	40.44	-40.62	45.74	54.00	8.26	Horizontal
2	6212.625	41.64	33.72	-11.72	63.64	68.20	4.56	Horizontal
3	7101.45	55.22	36.20	-40.16	51.26	68.20	16.94	Horizontal
4	10160.8333	53.79	38.80	-40.12	52.47	68.20	15.73	Horizontal
5	14150.1833	54.15	41.55	-40.34	55.36	68.20	12.84	Horizontal
6	17554.1833	52.40	44.72	-42.18	54.94	68.20	13.26	Horizontal

11ax(HE80)_TX_CH_106_Verical_MIMO



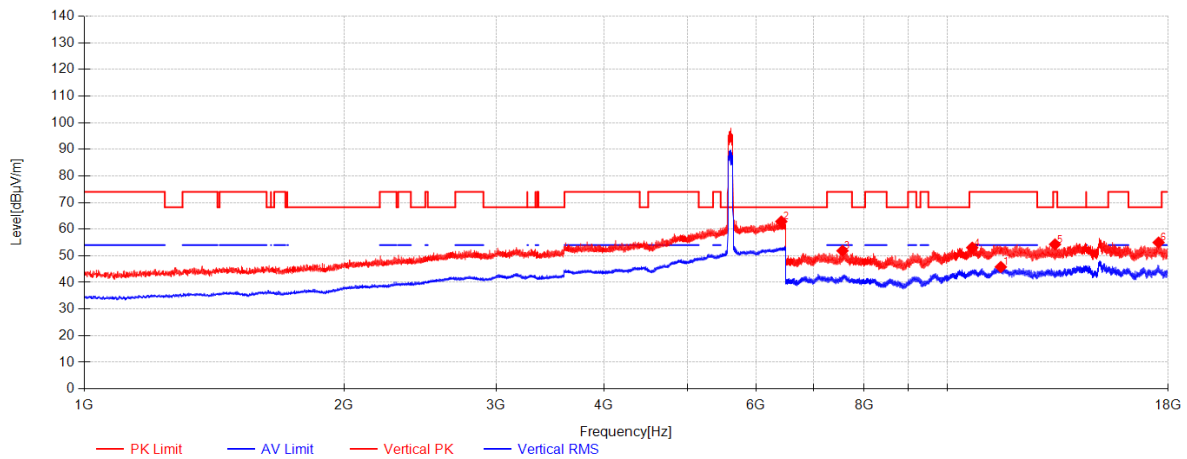
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11657.75	46.13	40.37	-40.50	46.00	54.00	8.00	Vertical
2	6409.7083	40.66	34.02	-11.55	63.13	68.20	5.07	Vertical
3	7613.2	54.87	36.87	-40.10	51.64	74.00	22.36	Vertical
4	10947.8167	54.58	40.14	-40.81	53.91	74.00	20.09	Vertical
5	14171.2667	53.77	41.57	-40.28	55.06	68.20	13.14	Vertical
6	17527.7333	51.96	44.61	-42.20	54.37	68.20	13.83	Vertical

11ax(HE80)_TX_CH_122_Horizontal_MIMO



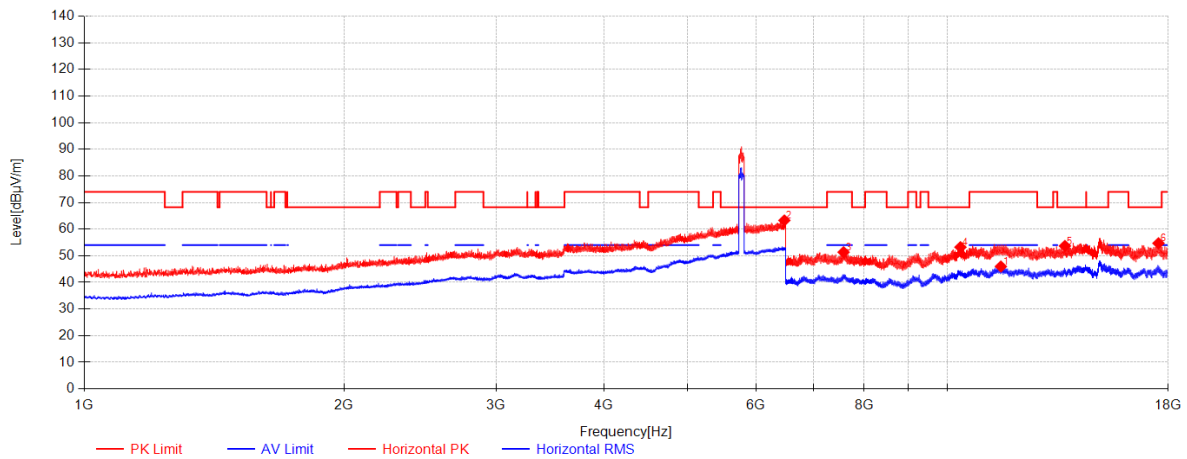
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	15350.4	43.07	39.85	-36.93	45.99	54.00	8.01	Horizontal
2	6325.375	41.48	33.45	-11.65	63.28	68.20	4.92	Horizontal
3	7597.8667	54.20	36.89	-40.02	51.07	74.00	22.93	Horizontal
4	11771.9833	55.18	39.98	-40.51	54.65	74.00	19.35	Horizontal
5	15006.55	52.10	40.97	-36.43	56.64	68.20	11.56	Horizontal
6	17699.4667	53.67	44.90	-43.94	54.63	68.20	13.57	Horizontal

11ax(HE80)_TX_CH_122_Vertical_MIMO



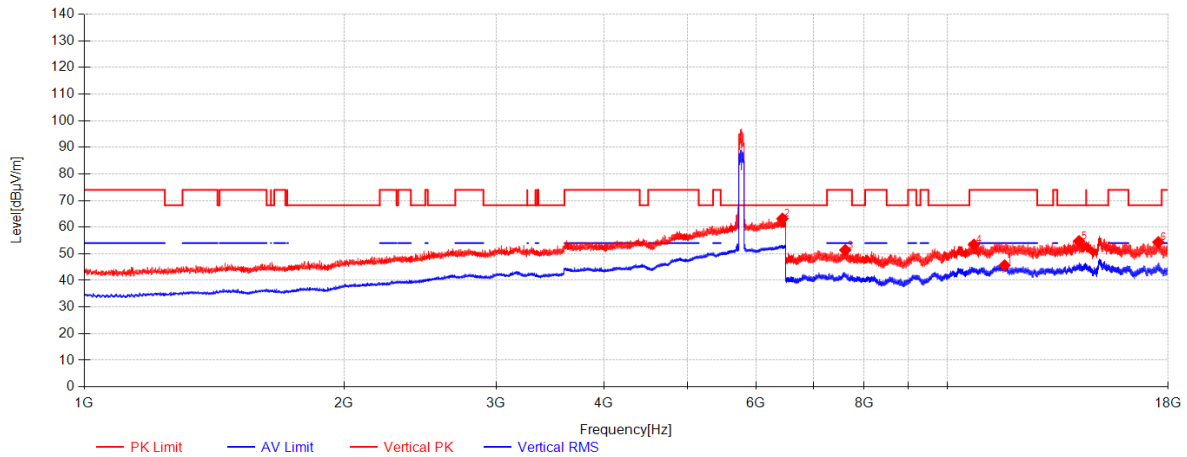
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11525.8833	45.84	40.53	-40.55	45.82	54.00	8.18	Vertical
2	6417.9583	40.40	34.04	-11.56	62.88	68.20	5.32	Vertical
3	7555.7	55.50	36.72	-40.33	51.89	74.00	22.11	Vertical
4	10679.8667	54.06	39.16	-40.16	53.06	74.00	20.94	Vertical
5	13316.05	55.25	39.65	-40.62	54.28	74.00	19.72	Vertical
6	17553.0333	52.46	44.71	-42.18	54.99	68.20	13.21	Vertical

11ax(HE80)_TX_CH_155_Horizontal_MIMO



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11526.65	46.00	40.53	-40.55	45.98	54.00	8.02	Horizontal
2	6470.6667	40.61	34.31	-11.63	63.29	68.20	4.91	Horizontal
3	7577.55	54.72	36.81	-40.17	51.36	74.00	22.64	Horizontal
4	10349.05	54.01	39.45	-40.22	53.24	68.20	14.96	Horizontal
5	13672.55	53.66	40.47	-40.43	53.70	68.20	14.50	Horizontal
6	17548.8167	52.18	44.70	-42.18	54.70	68.20	13.50	Horizontal

11ax(HE80)_TX_CH_155_Verical_MIMO



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11642.0333	45.87	40.43	-40.60	45.70	54.00	8.30	Vertical
2	6437.2083	40.73	34.07	-11.59	63.21	68.20	4.99	Vertical
3	7611.6667	54.63	36.88	-40.09	51.42	74.00	22.58	Vertical
4	10725.8667	54.48	39.23	-40.26	53.45	74.00	20.55	Vertical
5	14195.8	53.38	41.60	-40.21	54.77	68.20	13.43	Vertical
6	17540	51.91	44.66	-42.19	54.38	68.20	13.82	Vertical

7.4 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/Cor1-2023 Section 6.10.5 & 12.7.2

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: 23 °C

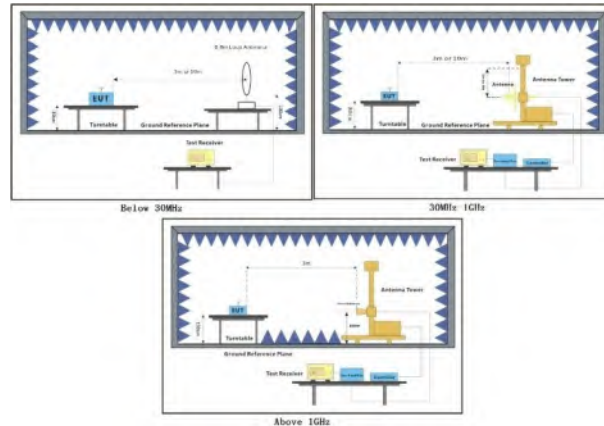
Humidity: 43 % RH

Atmospheric Pressure: 1023 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode_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.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

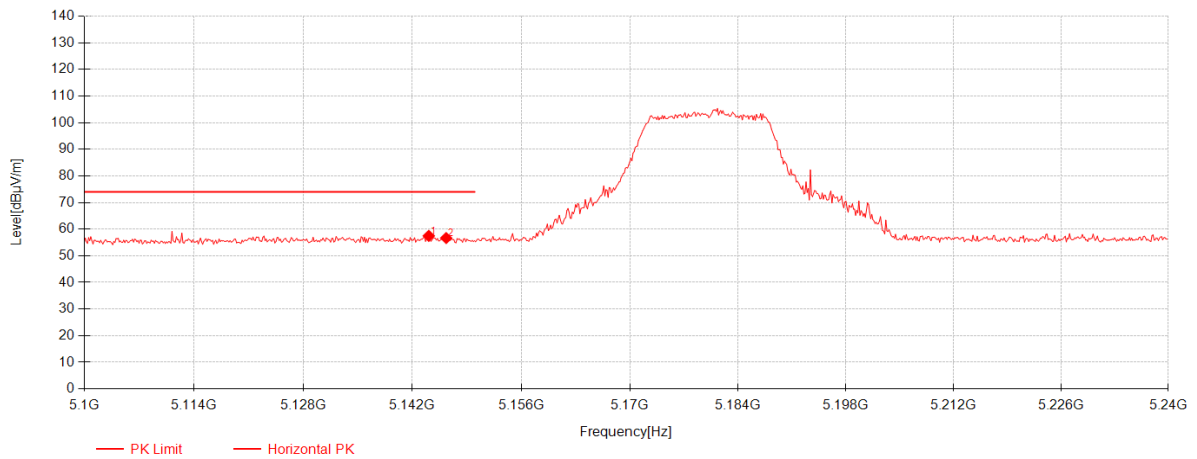
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- 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.

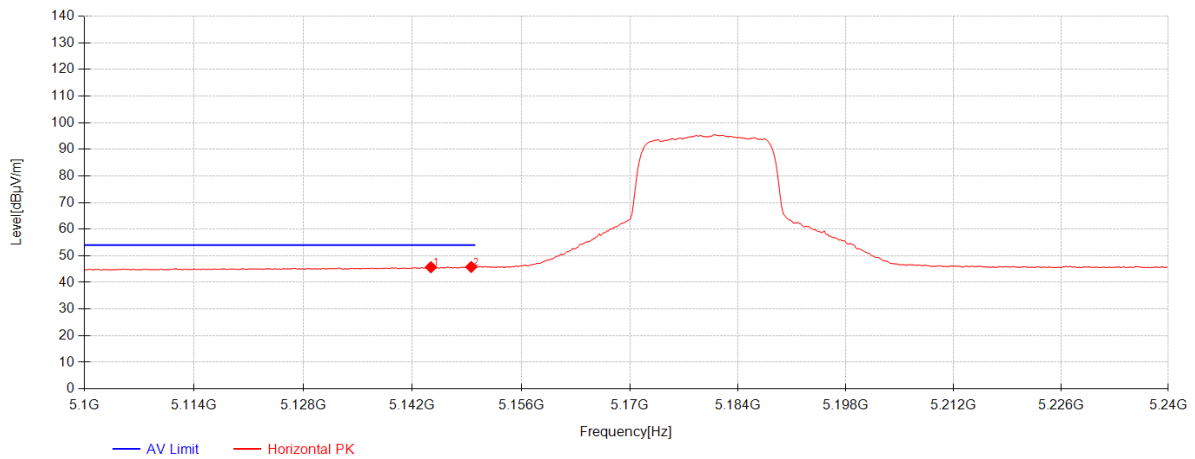
Remark 3: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11a_TX_CH_36_Horizontal_Peak_worst ANT3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5144.1	38.49	32.06	-13.06	57.49	74.00	16.51	Horizontal
2	5146.34	37.64	32.08	-13.06	56.66	74.00	17.34	Horizontal

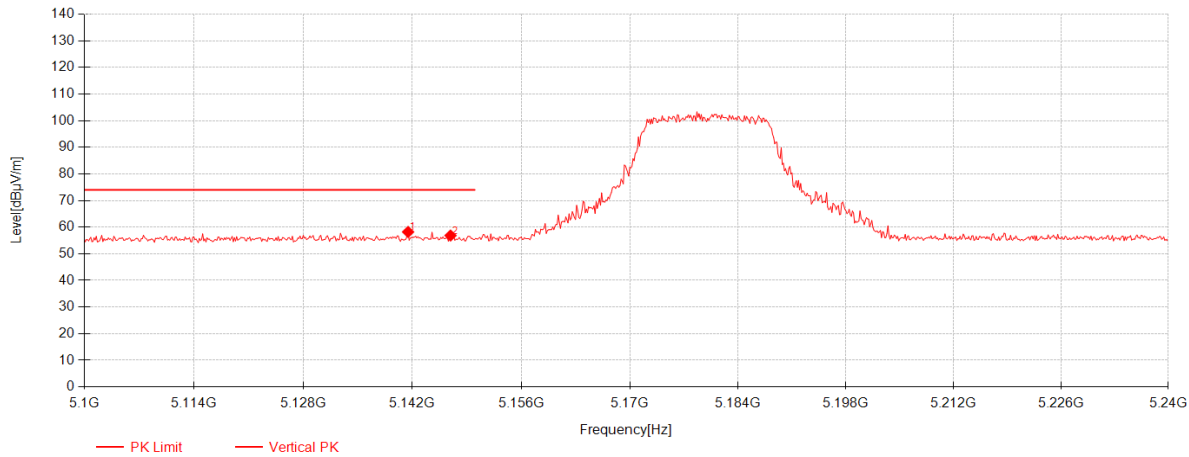
11a_TX_CH_36_Horizontal_Average_worst ANT3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5144.38	26.71	32.07	-13.06	45.72	54.00	8.28	Horizontal
2	5149.56	26.77	32.10	-13.06	45.81	54.00	8.19	Horizontal



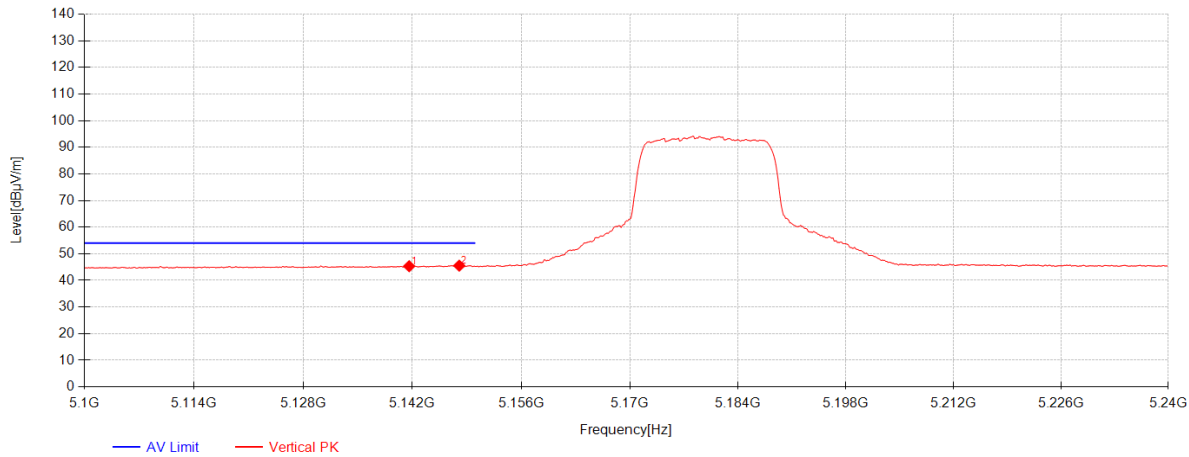
11a_TX_CH_36_Vertical_Peak_worst ANT3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5141.44	39.23	32.05	-13.06	58.22	74.00	15.78	Vertical
2	5146.9	37.84	32.08	-13.06	56.86	74.00	17.14	Vertical

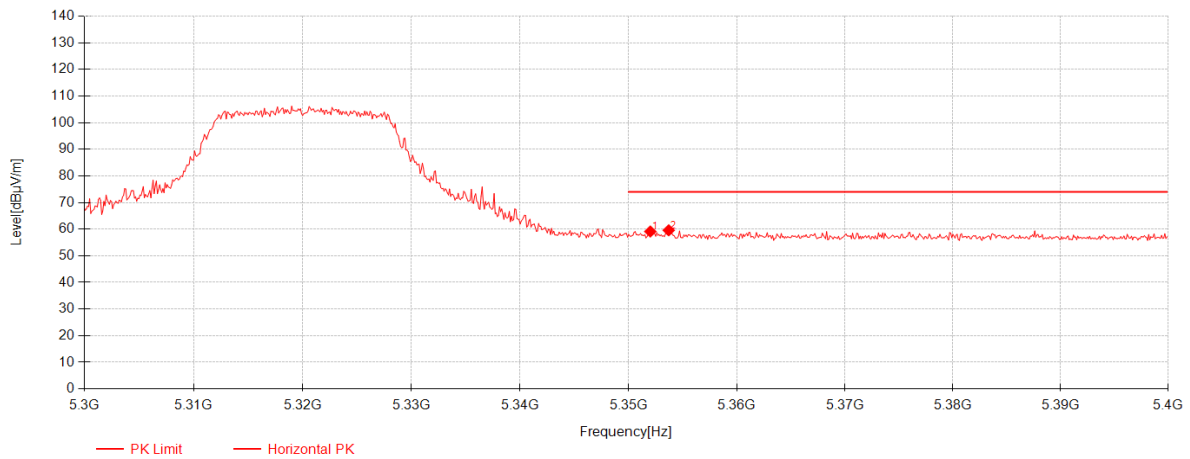


11a_TX_CH_36_Vertical_Average_worst ANT3



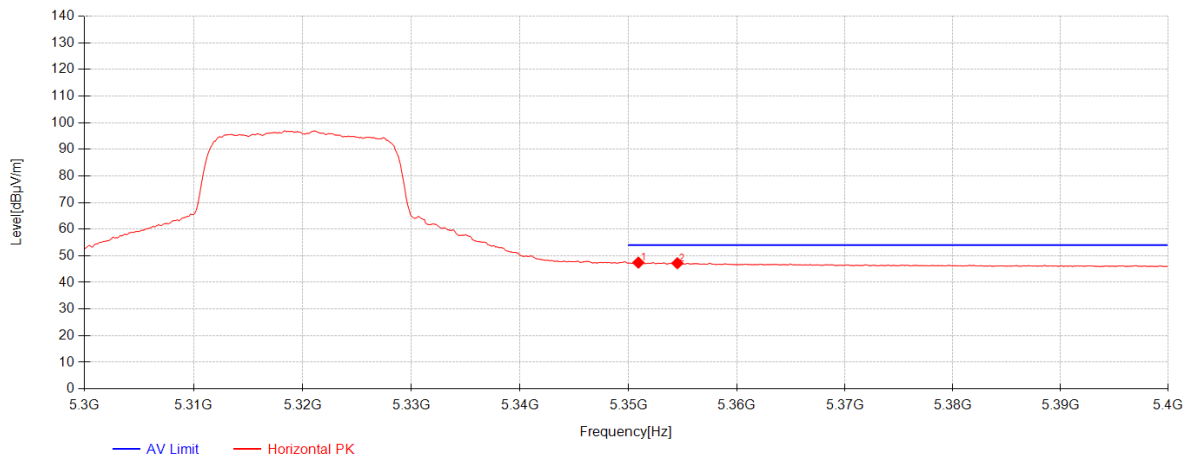
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5141.58	26.35	32.05	-13.06	45.34	54.00	8.66	Vertical
2	5148.02	26.50	32.09	-13.06	45.53	54.00	8.47	Vertical

11a_TX_CH_64_Horizontal_Peak_worst ANT3



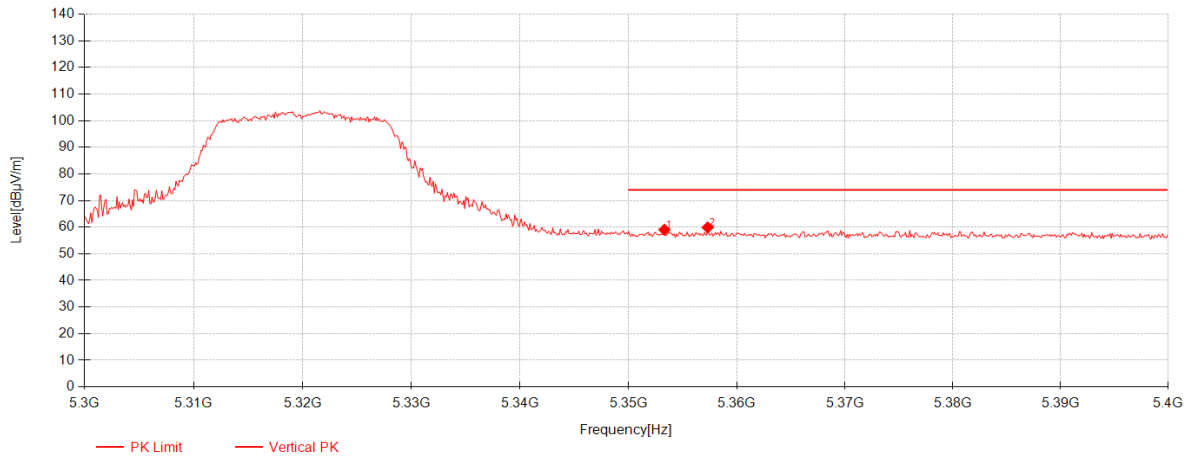
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5352	39.37	32.49	-12.73	59.13	74.00	14.87	Horizontal
2	5353.7	39.83	32.48	-12.74	59.57	74.00	14.43	Horizontal

11a_TX_CH_64_Horizontal_Average_worst ANT3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.9	27.68	32.49	-12.73	47.44	54.00	6.56	Horizontal
2	5354.5	27.47	32.47	-12.74	47.20	54.00	6.80	Horizontal

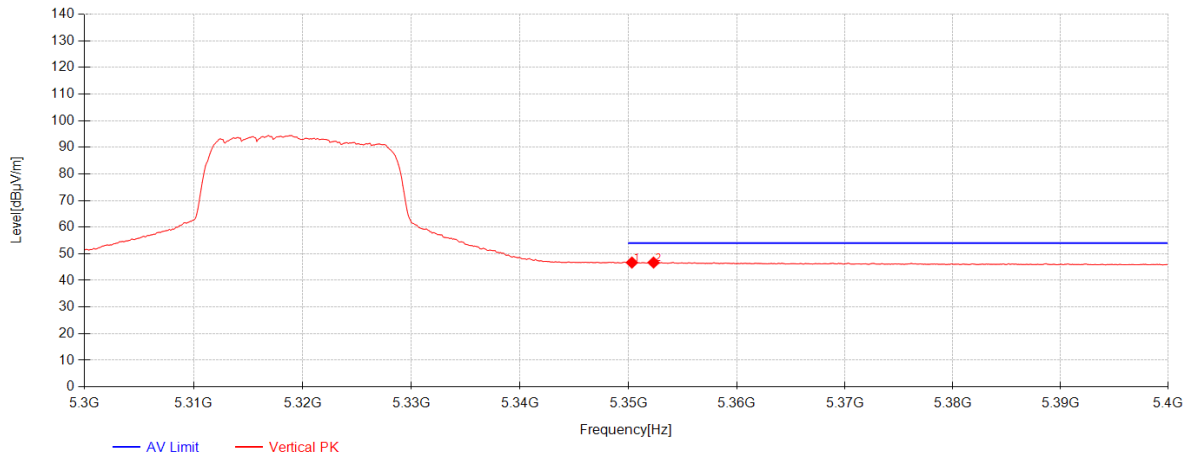
11a_TX_CH_64_Vertical_Peak_worst ANT3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5353.3	39.31	32.48	-12.74	59.05	74.00	14.95	Vertical
2	5357.3	40.17	32.46	-12.75	59.88	74.00	14.12	Vertical

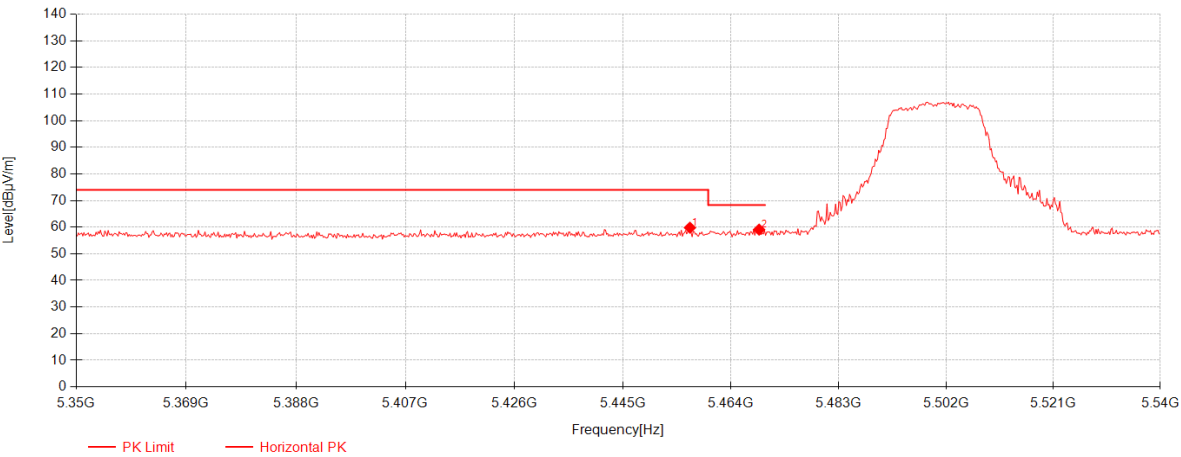


11a_TX_CH_64_Vertical_Average_worst ANT3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5350.3	26.93	32.50	-12.73	46.70	54.00	7.30	Vertical
2	5352.3	26.95	32.49	-12.73	46.71	54.00	7.29	Vertical

11a_TX_CH_100_Horizontal_Peak_worst ANT3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5456.78	39.89	32.53	-12.62	59.80	74.00	14.20	Horizontal
2	5468.94	39.07	32.58	-12.56	59.09	68.30	9.21	Horizontal