

FCC Test Report

Test Report

On Behalf of

Shenzhen Haimeilan Technology Co., LTD.

For

Smart Phone

Model No.: S25 Ultra, F5 Pro, M13, F50 Pro, M5S Pro, F5, Note12 Pro, X40 Pro, X40 Edge, Mate 14, Mate 16, Mate 17, Mate 18, Mate 19, Mate 20, Mate 21, Mate 22, Mate 23, Mate 24, Mate 25, Mate 26, Mate 27, Mate28, D14, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, R12 pro, P5 pro, E50 Ultra, I16 pro max, P6 pro, Sp20 Pro, OP12 pro, T3 Pro, P8 Pro

FCC ID: 2BDI3-K

Prepared For:

Shenzhen Haimeilan Technology Co., LTD.

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Prepared By:

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Date of Test:

Feb. 08, 2025 ~ Apr. 10, 2025

Date of Report:

Apr. 10, 2025

Report Number:

HK2502080452-3E

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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Test Result Certification

Applicant's Name : Shenzhen Haimeilan Technology Co., LTD.
Address : 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang
North Street, Futian District, Shenzhen, 518000 China
Manufacturer's Name : Shenzhen Haimeilan Technology Co., LTD.
Address : 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang
North Street, Futian District, Shenzhen, 518000 China

Product Description

Trade Mark : N/A
Product Name : Smart Phone
Model and/or Type Reference : S25 Ultra, F5 Pro, M13, F50 Pro, M5S Pro, F5, Note12 Pro, X40
Pro, X40 Edge, Mate 14, Mate 16, Mate 17, Mate 18, Mate 19,
Mate 20, Mate 21, Mate 22, Mate 23, Mate 24, Mate 25, Mate 26,
Mate 27, Mate28, D14, D16, D17, D18, D19, D20, D21, D22,
D23, D24, D25, D26, D27, D28, D29, R12 pro, P5 pro, E50 Ultra,
I16 pro max, P6 pro, Sp20 Pro, OP12 pro, T3 Pro, P8 Pro
Standards : FCC Rules and Regulations Part 15 Subpart E Section 15.407
ANSI C63.10: 2013

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Date of Test :
Date (s) of performance of tests : **Feb. 08, 2025 ~ Apr. 10, 2025**
Date of Issue : **Apr. 10, 2025**
Test Result : **Pass**

Testing Engineer :

Len Liao

(Len Liao)

Technical Manager :

Sliver Wan

(Sliver Wan)

Authorized Signatory :

Jason Zhou

(Jason Zhou)



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Apr. 10, 2025	Jason Zhou

1. Test Result Summary

1.1. Test Procedures and Results

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6db Emission Bandwidth	§15.407(e)	PASS
26dB Emission Bandwidth & 99% Occupied Bandwidth	§15.407(a)	N/A
Power Spectral Density	§15.407(a)	PASS
Band Edge	§15.407(b)/15.209/15.205	PASS
Radiated Emission	§15.407(b)/15.209/15.205	PASS
Frequency Stability	§15.407(g)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2. Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 0.37\text{dB}$
2	RF power, conducted	$\pm 3.35\text{dB}$
3	Spurious emissions, conducted	$\pm 2.20\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$

2. EUT Description

2.1. General Description of EUT

Equipment:	Smart Phone
Model Name:	S25 Ultra
Series Model(s):	F5 Pro, M13, F50 Pro, M5S Pro, F5, Note12 Pro, X40 Pro, X40 Edge, Mate 14, Mate 16, Mate 17, Mate 18, Mate 19, Mate 20, Mate 21, Mate 22, Mate 23, Mate 24, Mate 25, Mate 26, Mate 27, Mate28, D14, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, R12 pro, P5 pro, E50 Ultra, I16 pro max, P6 pro, Sp20 Pro, OP12 pro, T3 Pro, P8 Pro
Model Difference:	All model's the function, software and electric circuit are the same, only with appearance, product color and model named different. Test sample model: S25 Ultra.
Trade Mark:	N/A
FCC ID:	2BDI3-K
Operation Frequency:	IEEE 802.11a/n/ac (HT20)5.745GHz-5.825GHz IEEE 802.11n/ac (HT40)5.755GHz-5.795GHz IEEE 802.11ac (HT80) 5.775GHz
Modulation Technology:	IEEE 802.11a/n/ac
Modulation Type:	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Antenna Type:	FPC Antenna
Antenna Gain:	0.98dBi
Power Source:	DC5V from Type-C or DC3.85V from battery
Power Supply:	DC5V from Type-C or DC3.85V from battery
Hardware Version:	V2.0
Software Version:	V2.0
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	

2.2. Operation Frequency Each of Channel

802.11a/802.11n(HT20) 802.11ac(HT20)		802.11n(HT40) 802.11ac(HT40)		802.11ac(HT80)	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3. Operation of EUT during Testing

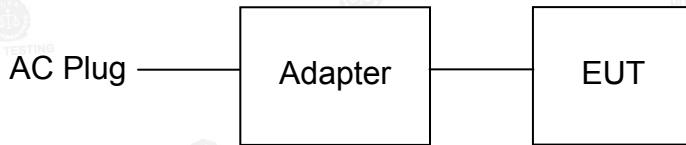
Band IV (5725 - 5850 MHz)		
For 802.11a/n (HT20)/ac(HT20)		
Channel Number	Channel	Frequency (MHz)
149	Low	5745
157	Mid	5785
165	High	5825

For 802.11n (HT40)/ ac(HT40)		
Channel Number	Channel	Frequency (MHz)
151	Low	5755
159	High	5795

For 802.11ac(HT80)		
Channel Number	Channel	Frequency (MHz)
155	/	5775

2.4. Description of Test Setup

Operation of EUT during AC Conducted and Radiation below 1GHz testing:



Operation of EUT during Radiation above 1GHz testing:



Operation of EUT during RF Conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

2.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	Smart Phone	N/A	S25 Ultra	N/A	EUT
2	USB Cable	N/A	N/A	Length:0.82m	Accessory
3	Adapter	N/A	APD5-2	Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2A	Accessory

Note:

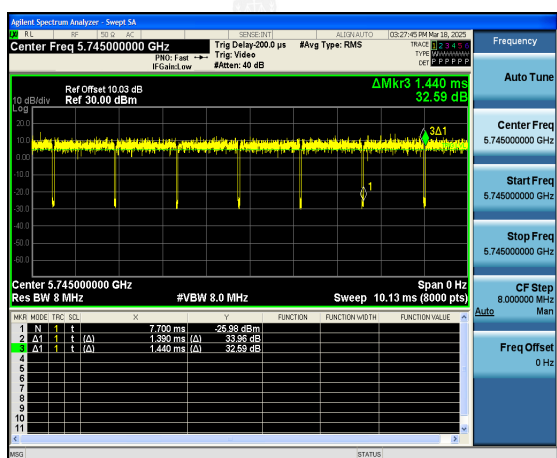
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6db Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

3. General Information

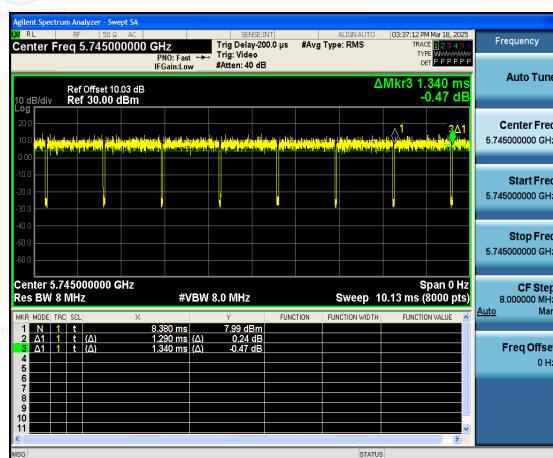
3.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(HT20)/ac(HT40)/ac(HT80)	MCS0
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
Mode Test Duty Cycle:	
Mode	Duty Cycle
802.11a	0.965
802.11n(HT20)	0.963
802.11n(HT40)	0.942
802.11ac(HT20)	0.963
802.11ac(HT40)	0.929
802.11ac(HT80)	0.889
Test plots as follows:	

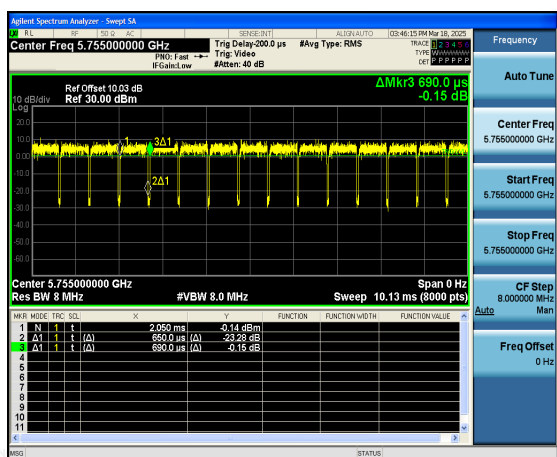
802.11a



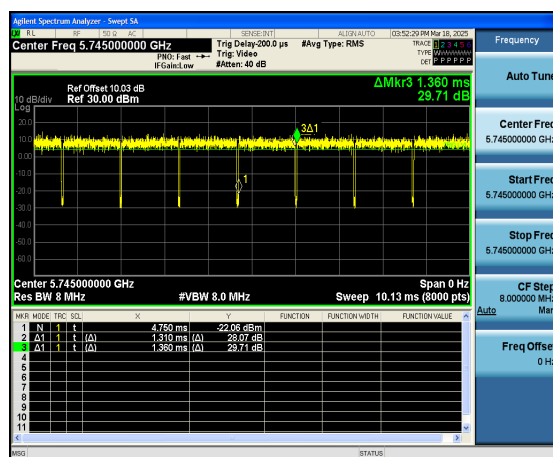
802.11n(HT20)



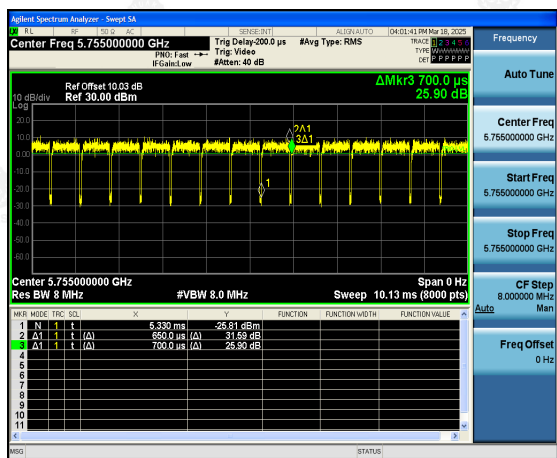
802.11n(HT40)



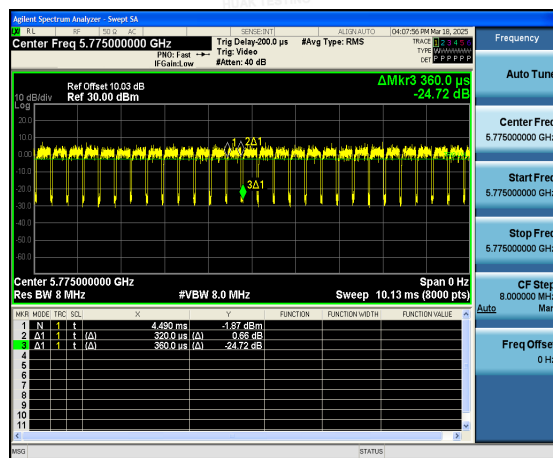
802.11ac(HT20)



802.11ac(HT40)



802.11ac(HT80)



4. Test Results and Measurement Data

4.1. AC Conducted Emission

4.1.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane 40cm 80cm EMI Receiver Filter AC power Test table/Insulation plane E.U.T AC power Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Tx Mode														
Test Procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. 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: 2013 on conducted measurement.														
Test Result:	Pass														

4.1.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	Feb. 19, 2025
LISN	R&S	ENV216	HKE-002	Feb. 20, 2024	Feb. 19, 2025
LISN	R&S	ENV216	HKE-059	Feb. 20, 2024	Feb. 19, 2025
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 20, 2024	Feb. 19, 2025
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	Feb. 19, 2025

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Conducted Emission Shielding Room Test Site (843)

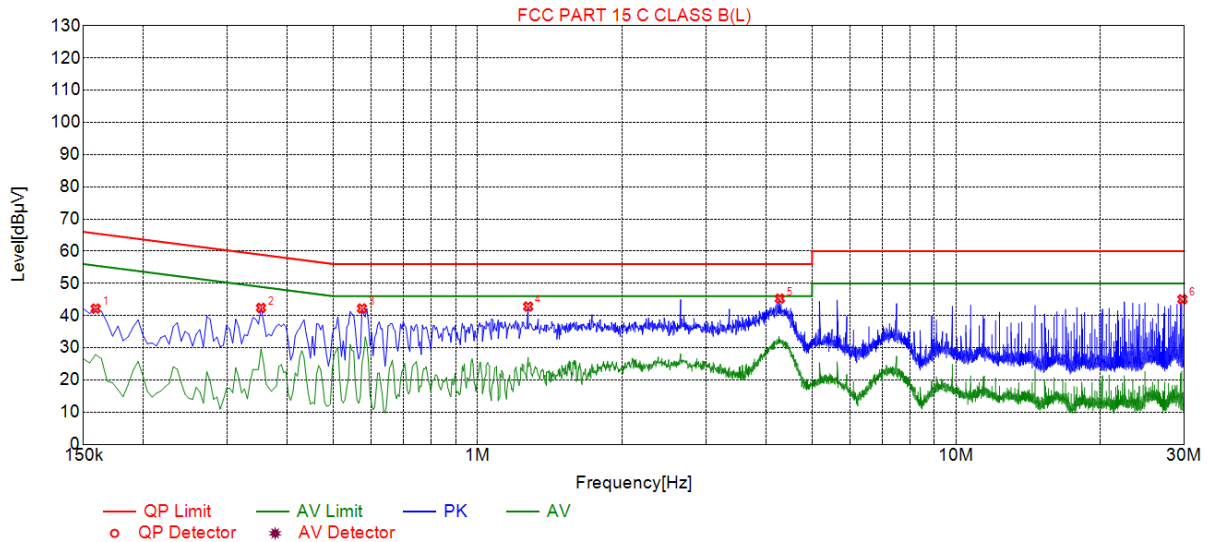
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	Feb. 18, 2026
LISN	R&S	ENV216	HKE-002	Feb. 19, 2025	Feb. 18, 2026
LISN	R&S	ENV216	HKE-059	Feb. 19, 2025	Feb. 18, 2026
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 19, 2025	Feb. 18, 2026
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 19, 2025	Feb. 18, 2026

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.1.3. Test Data

Test Model No.: S25 Ultra

Test Specification: Line



Suspected List

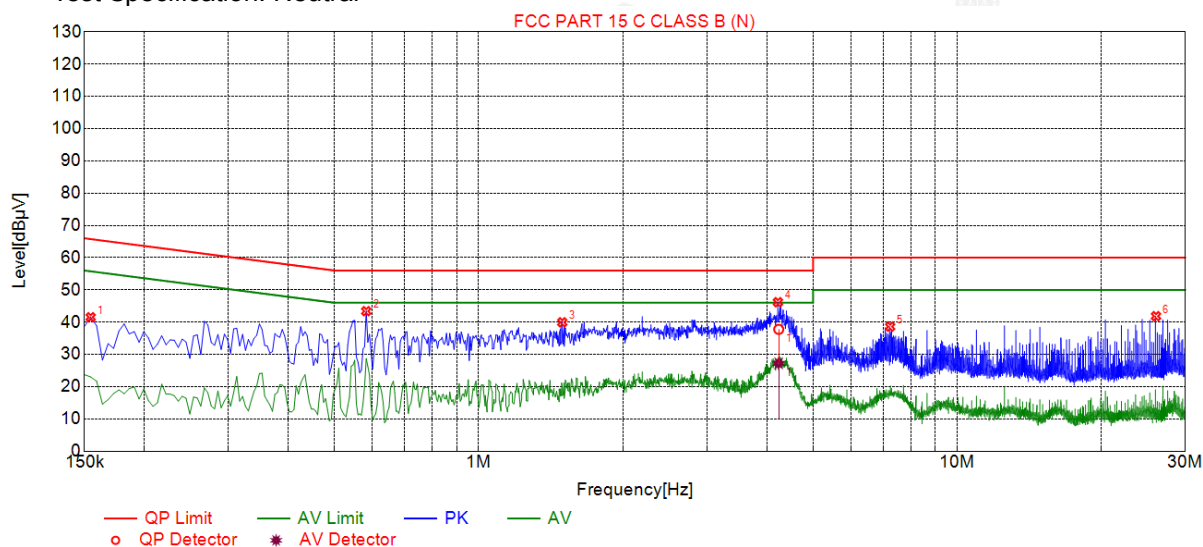
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	42.17	19.81	65.52	23.35	22.36	PK	L
2	0.3525	42.39	19.83	58.90	16.51	22.56	PK	L
3	0.5730	42.21	19.86	56.00	13.79	22.35	PK	L
4	1.2750	42.80	19.90	56.00	13.20	22.90	PK	L
5	4.2810	45.26	20.09	56.00	10.74	25.17	PK	L
6	29.7240	45.05	20.25	60.00	14.95	24.80	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1545	41.53	19.73	65.75	24.22	21.80	PK	N
2	0.5820	43.40	19.74	56.00	12.60	23.66	PK	N
3	1.4955	39.95	19.79	56.00	16.05	20.16	PK	N
4	4.2225	46.19	19.98	56.00	9.81	26.21	PK	N
5	7.2465	38.61	19.95	60.00	21.39	18.66	PK	N
6	26.0565	41.85	20.28	60.00	18.15	21.57	PK	N

Final Data List

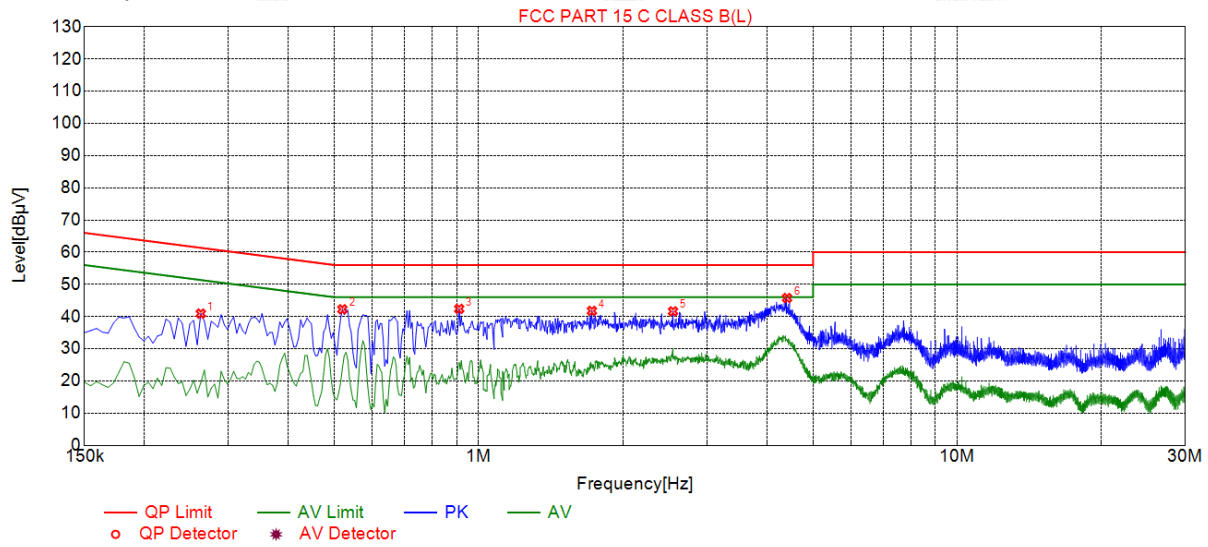
NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Type
1	4.2371	19.98	37.77	56.00	18.23	17.79	27.22	46.00	18.78	7.24	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: R12 pro
Test Specification: Line



Suspected List

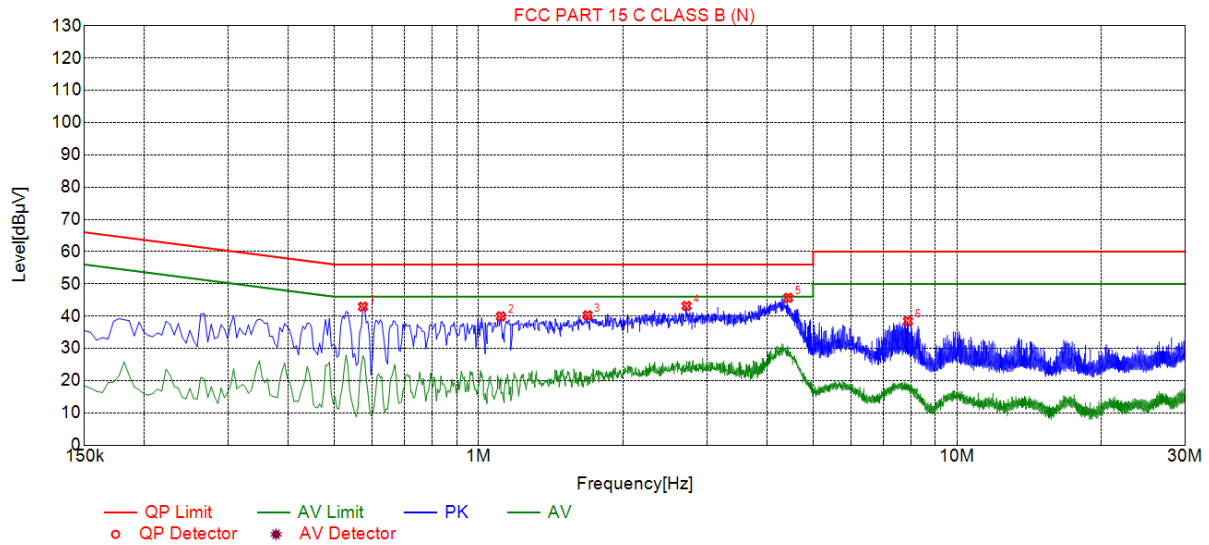
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2625	40.92	19.83	61.35	20.43	21.09	PK	L
2	0.5190	42.25	19.85	56.00	13.75	22.40	PK	L
3	0.9105	42.40	19.87	56.00	13.60	22.53	PK	L
4	1.7250	41.77	19.95	56.00	14.23	21.82	PK	L
5	2.5485	41.63	20.02	56.00	14.37	21.61	PK	L
6	4.4115	45.77	20.09	56.00	10.23	25.68	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

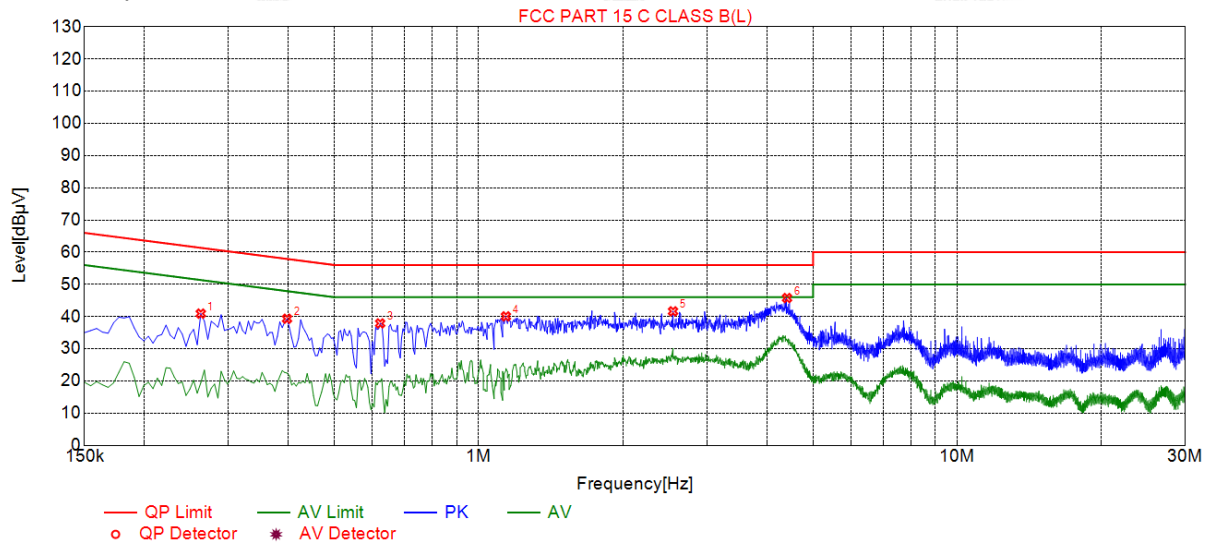
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5730	42.93	19.74	56.00	13.07	23.19	PK	N
2	1.1130	39.95	19.76	56.00	16.05	20.19	PK	N
3	1.6890	40.26	19.82	56.00	15.74	20.44	PK	N
4	2.7195	43.15	19.91	56.00	12.85	23.24	PK	N
5	4.4340	45.68	19.98	56.00	10.32	25.70	PK	N
6	7.8945	38.44	19.93	60.00	21.56	18.51	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: P5 pro
Test Specification: Line



Suspected List

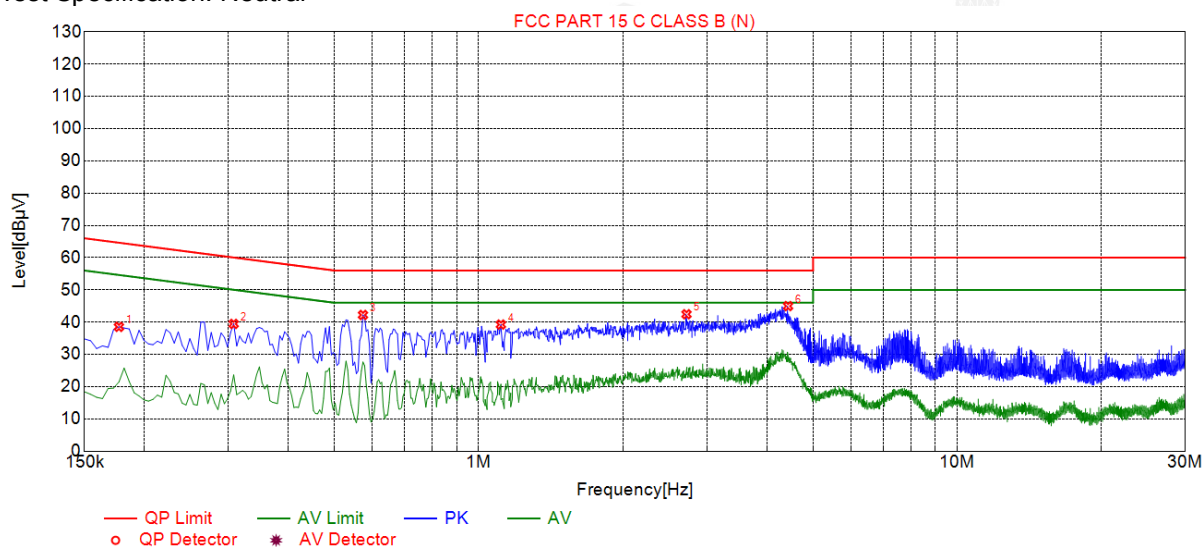
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2625	40.92	19.83	61.35	20.43	21.09	PK	L
2	0.3975	39.33	19.84	57.91	18.58	19.49	PK	L
3	0.6225	37.88	19.86	56.00	18.12	18.02	PK	L
4	1.1400	40.07	19.90	56.00	15.93	20.17	PK	L
5	2.5485	41.63	20.02	56.00	14.37	21.61	PK	L
6	4.4115	45.77	20.09	56.00	10.23	25.68	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

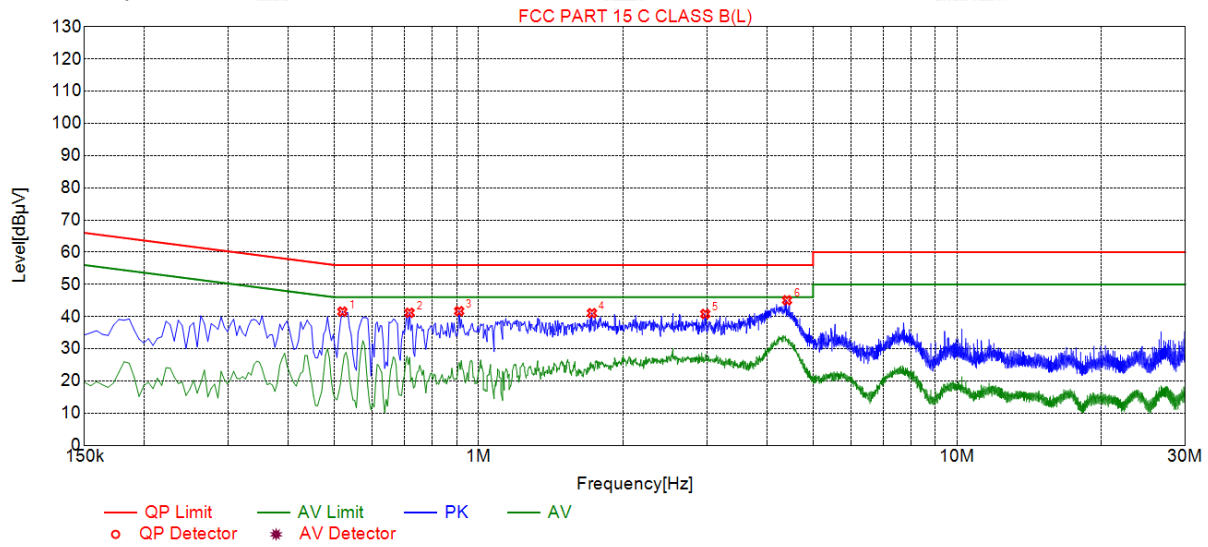
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1770	38.53	19.75	64.63	26.10	18.78	PK	N
2	0.3075	39.45	19.75	60.04	20.59	19.70	PK	N
3	0.5730	42.23	19.74	56.00	13.77	22.49	PK	N
4	1.1130	39.25	19.76	56.00	16.75	19.49	PK	N
5	2.7195	42.45	19.91	56.00	13.55	22.54	PK	N
6	4.4340	44.98	19.98	56.00	11.02	25.00	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: E50 Ultra
Test Specification: Line



Suspected List

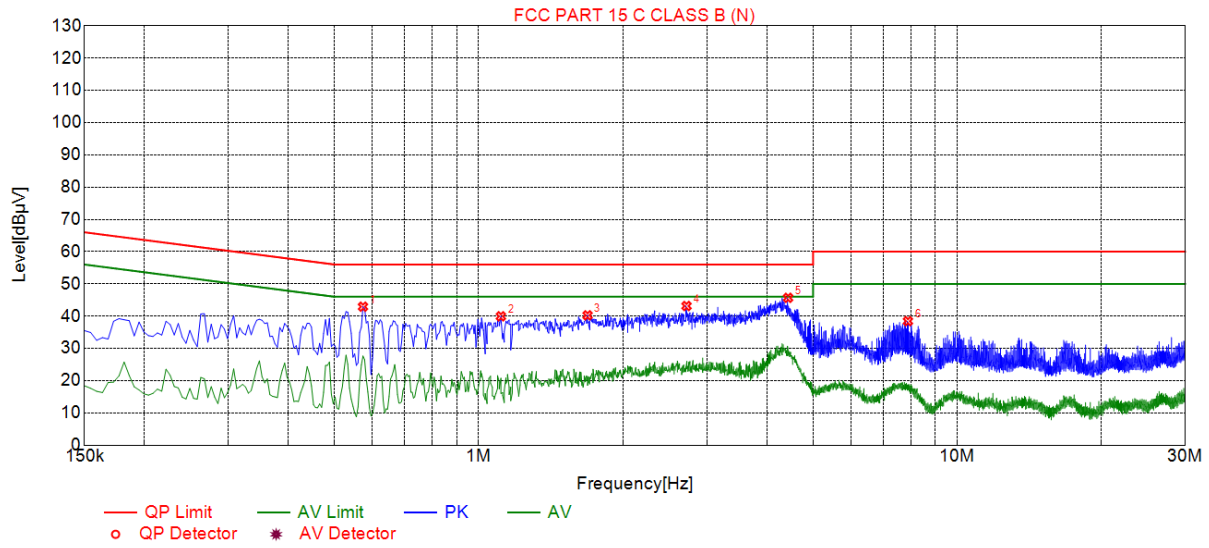
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5190	41.55	19.85	56.00	14.45	21.70	PK	L
2	0.7170	41.18	19.86	56.00	14.82	21.32	PK	L
3	0.9105	41.70	19.87	56.00	14.30	21.83	PK	L
4	1.7250	41.07	19.95	56.00	14.93	21.12	PK	L
5	2.9760	40.82	20.05	56.00	15.18	20.77	PK	L
6	4.4115	45.07	20.09	56.00	10.93	24.98	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

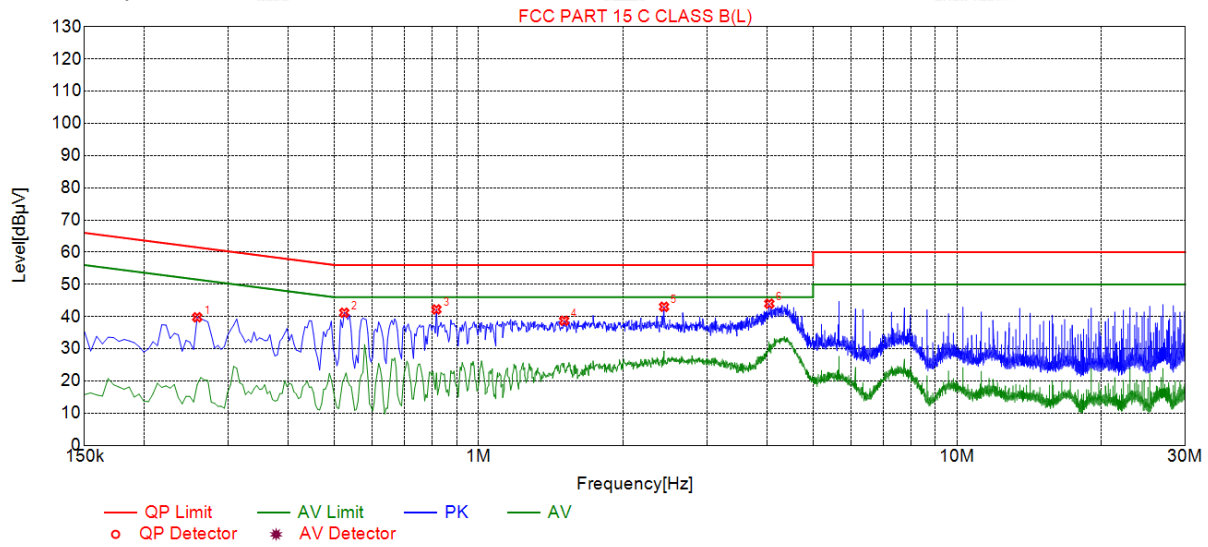
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5730	42.93	19.74	56.00	13.07	23.19	PK	N
2	1.1130	39.95	19.76	56.00	16.05	20.19	PK	N
3	1.6890	40.26	19.82	56.00	15.74	20.44	PK	N
4	2.7195	43.15	19.91	56.00	12.85	23.24	PK	N
5	4.4340	45.68	19.98	56.00	10.32	25.70	PK	N
6	7.8945	38.44	19.93	60.00	21.56	18.51	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: I16 pro max
Test Specification: Line



Suspected List

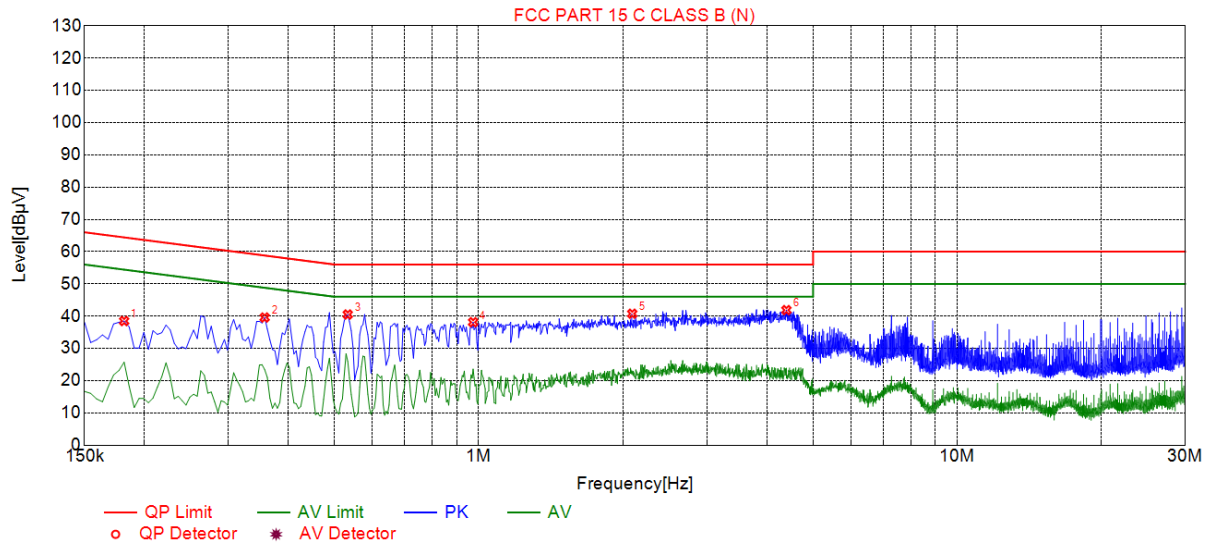
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2580	39.79	19.84	61.50	21.71	19.95	PK	L
2	0.5235	41.20	19.85	56.00	14.80	21.35	PK	L
3	0.8160	42.22	19.87	56.00	13.78	22.35	PK	L
4	1.5090	38.70	19.92	56.00	17.30	18.78	PK	L
5	2.4405	43.04	20.01	56.00	12.96	23.03	PK	L
6	4.0515	44.00	20.09	56.00	12.00	23.91	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

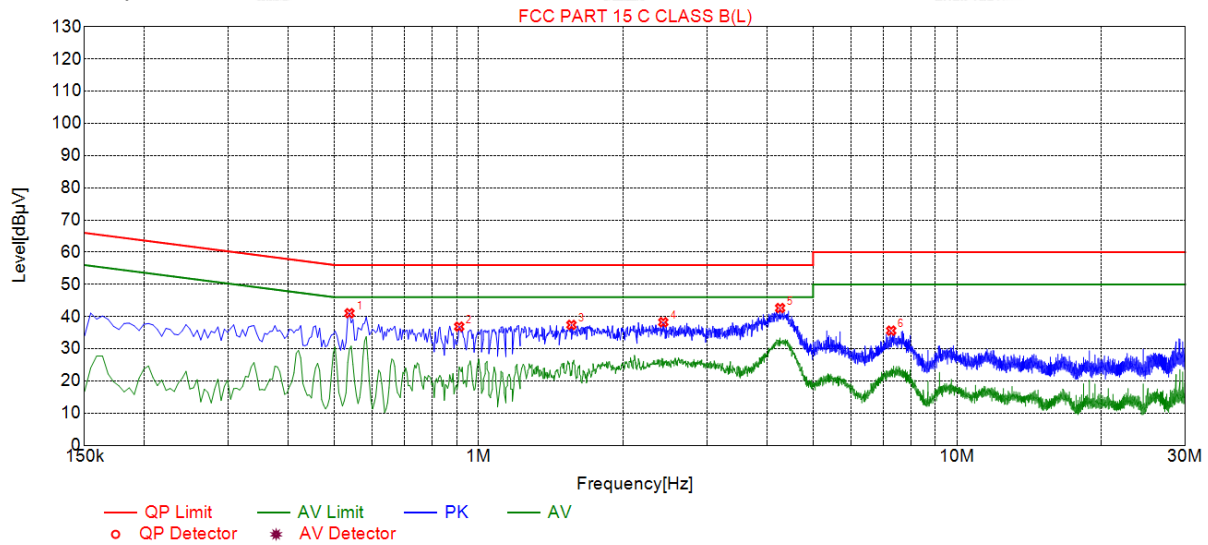
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1815	38.48	19.75	64.42	25.94	18.73	PK	N
2	0.3570	39.58	19.73	58.80	19.22	19.85	PK	N
3	0.5325	40.52	19.74	56.00	15.48	20.78	PK	N
4	0.9735	38.12	19.74	56.00	17.88	18.38	PK	N
5	2.0940	40.75	19.85	56.00	15.25	20.90	PK	N
6	4.3980	41.88	19.98	56.00	14.12	21.90	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: P6 pro
Test Specification: Line



Suspected List

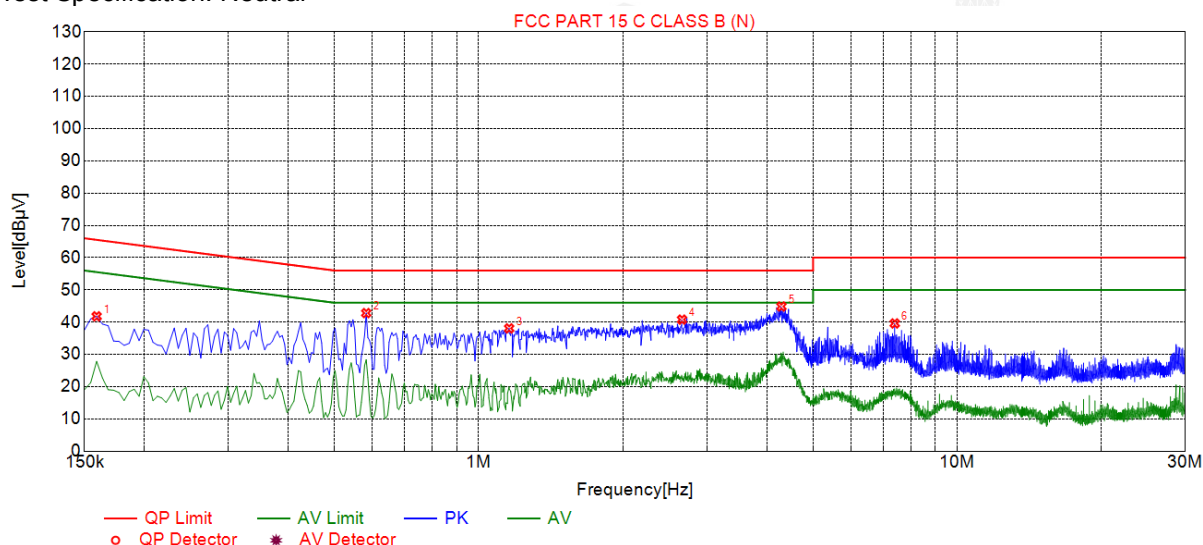
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5370	41.05	19.85	56.00	14.95	21.20	PK	L
2	0.9105	36.87	19.87	56.00	19.13	17.00	PK	L
3	1.5630	37.41	19.93	56.00	18.59	17.48	PK	L
4	2.4315	38.25	20.01	56.00	17.75	18.24	PK	L
5	4.2675	42.65	20.09	56.00	13.35	22.56	PK	L
6	7.2825	35.62	20.06	60.00	24.38	15.56	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

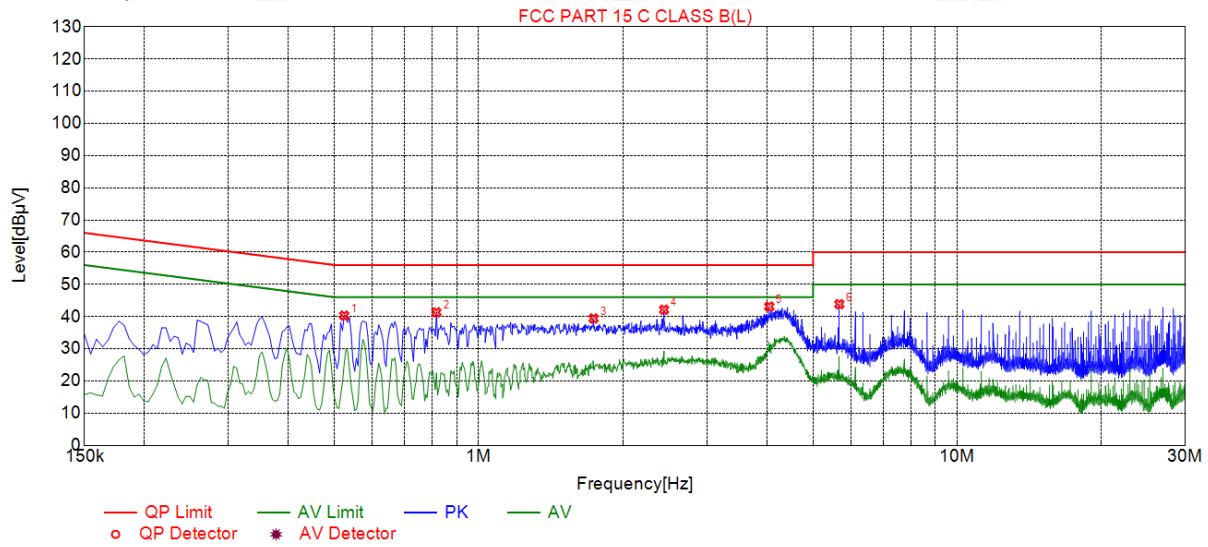
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	41.80	19.70	65.52	23.72	22.10	PK	N
2	0.5820	42.81	19.74	56.00	13.19	23.07	PK	N
3	1.1580	38.07	19.77	56.00	17.93	18.30	PK	N
4	2.6610	40.78	19.91	56.00	15.22	20.87	PK	N
5	4.2945	44.85	19.98	56.00	11.15	24.87	PK	N
6	7.4085	39.60	19.95	60.00	20.40	19.65	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: Sp20 Pro
Test Specification: Line



Suspected List

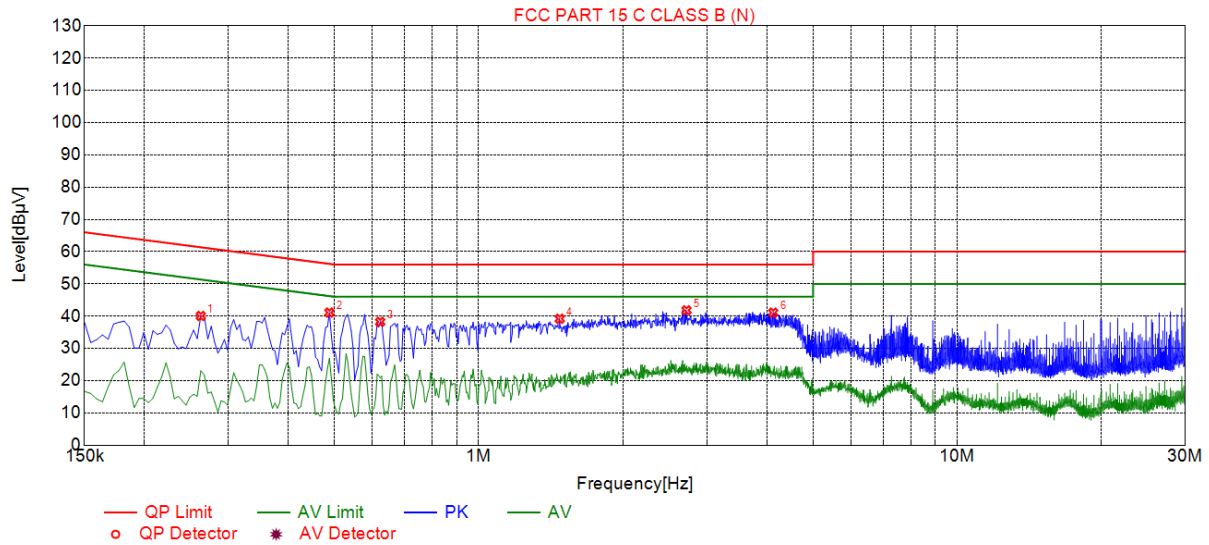
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5235	40.30	19.85	56.00	15.70	20.45	PK	L
2	0.8160	41.32	19.87	56.00	14.68	21.45	PK	L
3	1.7385	39.42	19.95	56.00	16.58	19.47	PK	L
4	2.4405	42.14	20.01	56.00	13.86	22.13	PK	L
5	4.0515	43.10	20.09	56.00	12.90	23.01	PK	L
6	5.6760	43.85	20.10	60.00	16.15	23.75	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

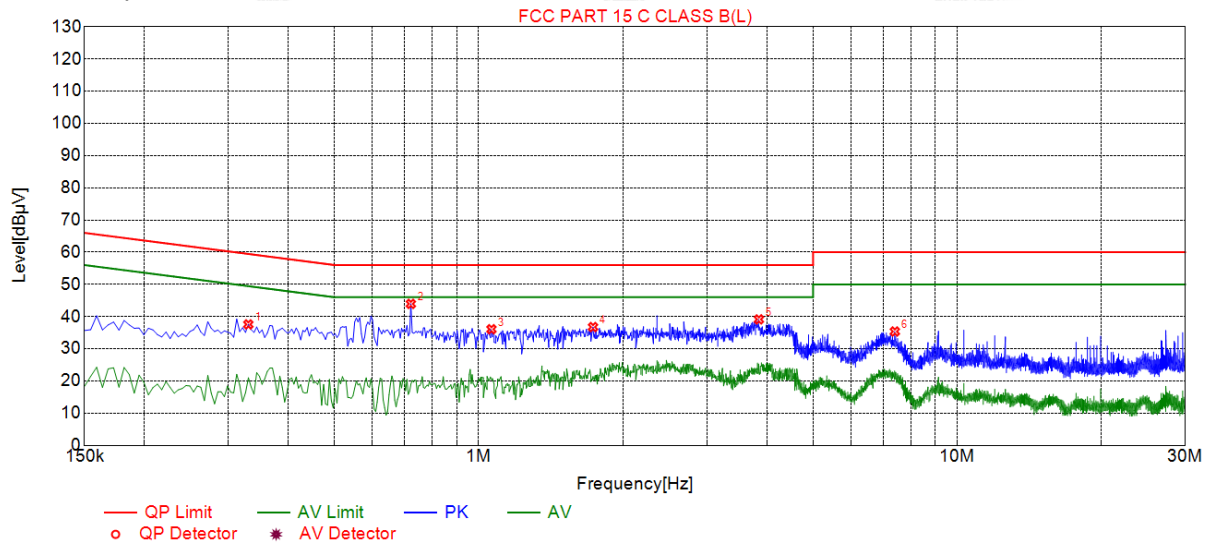
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2625	40.07	19.73	61.35	21.28	20.34	PK	N
2	0.4875	41.11	19.73	56.21	15.10	21.38	PK	N
3	0.6225	38.22	19.74	56.00	17.78	18.48	PK	N
4	1.4775	39.19	19.79	56.00	16.81	19.40	PK	N
5	2.7195	41.81	19.91	56.00	14.19	21.90	PK	N
6	4.1280	41.08	19.98	56.00	14.92	21.10	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: OP12 pro
Test Specification: Line



Suspected List

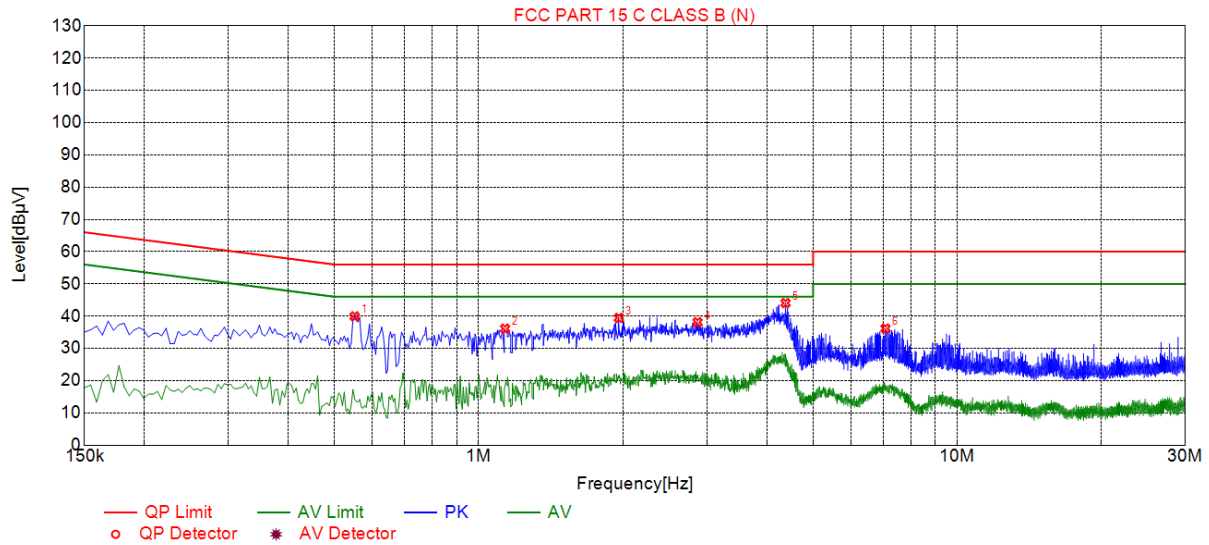
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.3300	37.57	19.84	59.45	21.88	17.73	PK	L
2	0.7215	43.95	19.86	56.00	12.05	24.09	PK	L
3	1.0635	36.07	19.88	56.00	19.93	16.19	PK	L
4	1.7340	36.74	19.95	56.00	19.26	16.79	PK	L
5	3.8535	39.13	20.09	56.00	16.87	19.04	PK	L
6	7.4130	35.36	20.05	60.00	24.64	15.31	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

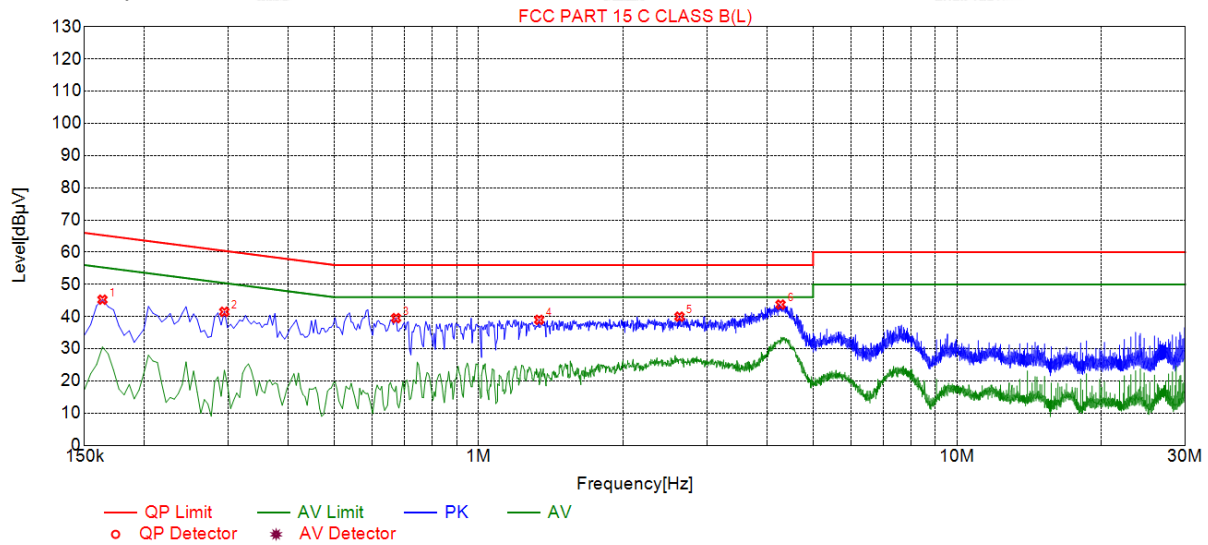
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5505	39.93	19.75	56.00	16.07	20.18	PK	N
2	1.1355	36.13	19.77	56.00	19.87	16.36	PK	N
3	1.9635	39.46	19.83	56.00	16.54	19.63	PK	N
4	2.8680	38.11	19.92	56.00	17.89	18.19	PK	N
5	4.3800	44.07	19.98	56.00	11.93	24.09	PK	N
6	7.0845	36.16	19.96	60.00	23.84	16.20	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: T3 Pro
Test Specification: Line



Suspected List

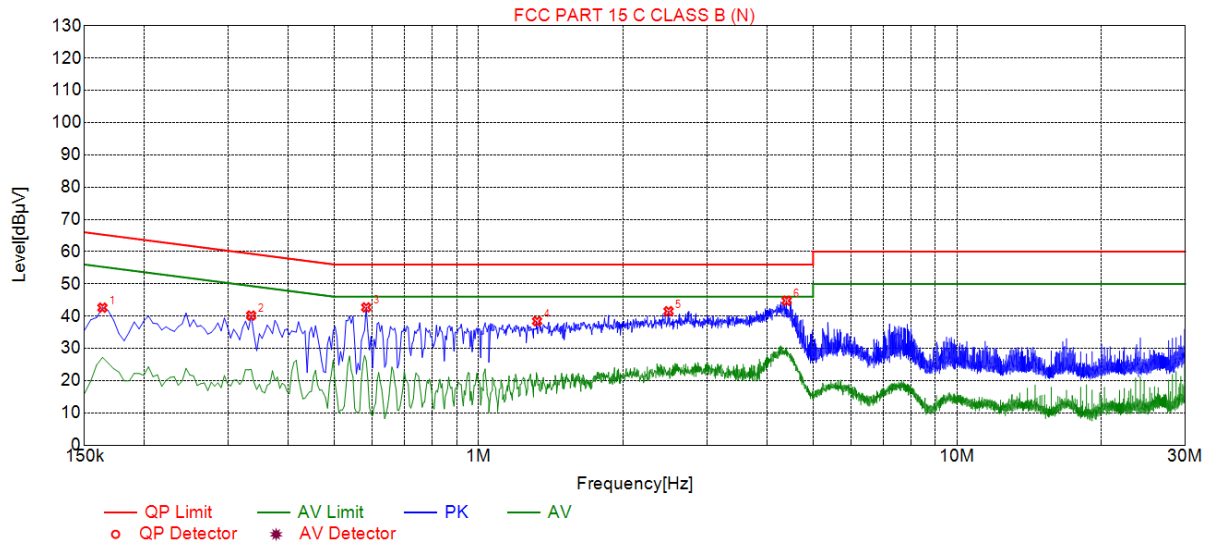
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1635	45.25	19.78	65.28	20.03	25.47	PK	L
2	0.2940	41.49	19.83	60.41	18.92	21.66	PK	L
3	0.6720	39.52	19.86	56.00	16.48	19.66	PK	L
4	1.3380	38.99	19.91	56.00	17.01	19.08	PK	L
5	2.6295	39.97	20.04	56.00	16.03	19.93	PK	L
6	4.2765	43.72	20.09	56.00	12.28	23.63	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

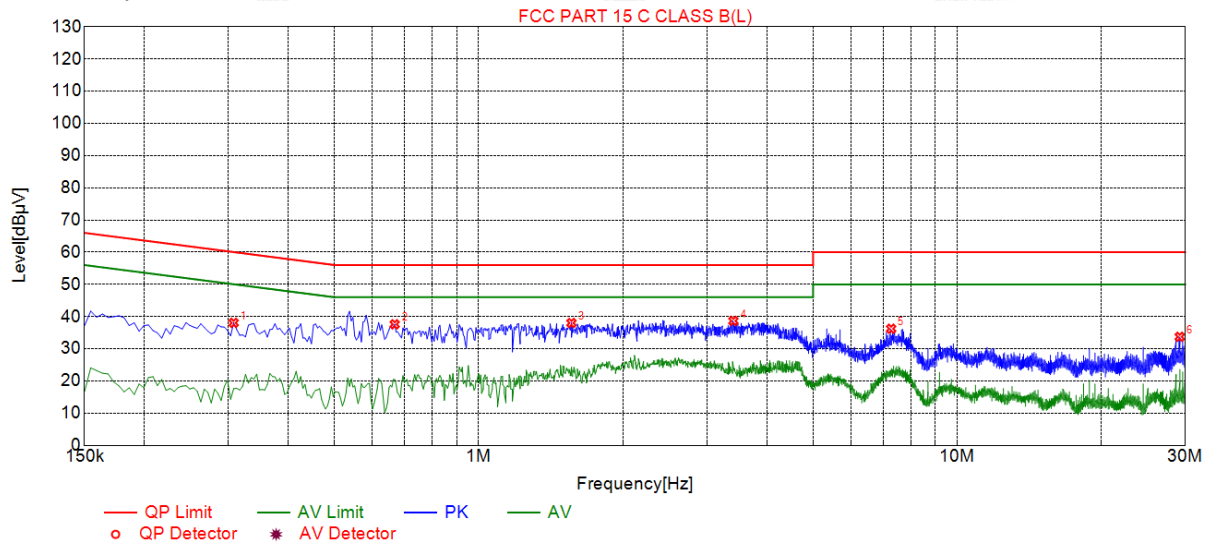
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1635	42.62	19.68	65.28	22.66	22.94	PK	N
2	0.3345	40.19	19.73	59.34	19.15	20.46	PK	N
3	0.5820	42.72	19.74	56.00	13.28	22.98	PK	N
4	1.3245	38.44	19.78	56.00	17.56	18.66	PK	N
5	2.4945	41.53	19.89	56.00	14.47	21.64	PK	N
6	4.4025	44.78	19.98	56.00	11.22	24.80	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Series Model No.: P8 Pro
Test Specification: Line



Suspected List

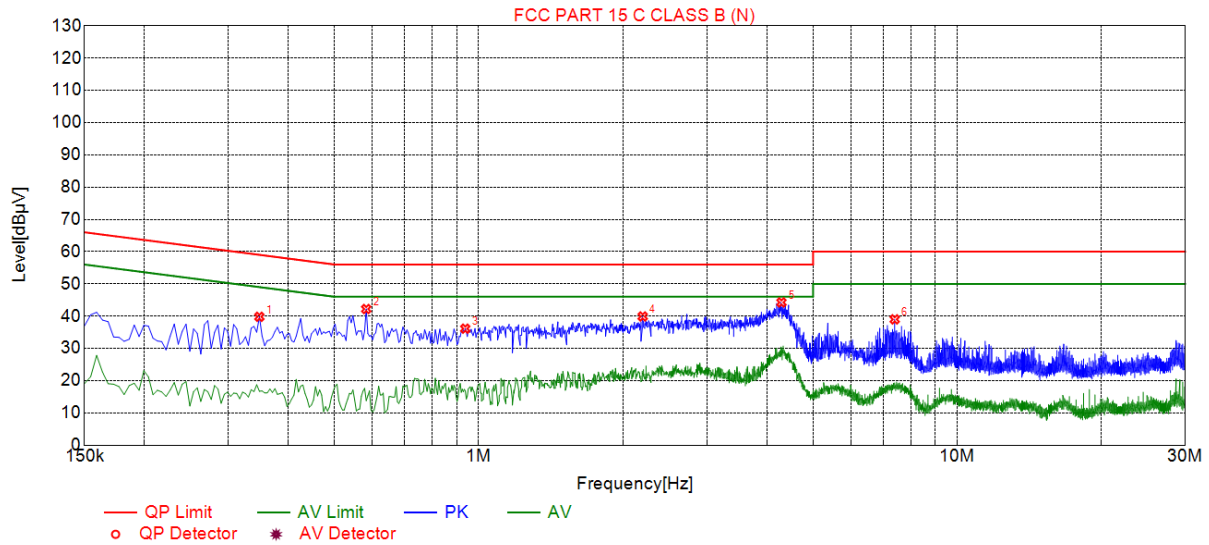
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.3075	38.05	19.85	60.04	21.99	18.20	PK	L
2	0.6675	37.60	19.86	56.00	18.40	17.74	PK	L
3	1.5630	38.01	19.93	56.00	17.99	18.08	PK	L
4	3.4080	38.64	20.08	56.00	17.36	18.56	PK	L
5	7.2825	36.22	20.06	60.00	23.78	16.16	PK	L
6	29.2110	33.72	20.24	60.00	26.28	13.48	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.3480	39.80	19.72	59.01	19.21	20.08	PK	N
2	0.5820	42.21	19.74	56.00	13.79	22.47	PK	N
3	0.9375	36.12	19.74	56.00	19.88	16.38	PK	N
4	2.2020	39.91	19.86	56.00	16.09	20.05	PK	N
5	4.2945	44.25	19.98	56.00	11.75	24.27	PK	N
6	7.4085	39.00	19.95	60.00	21.00	19.05	PK	N

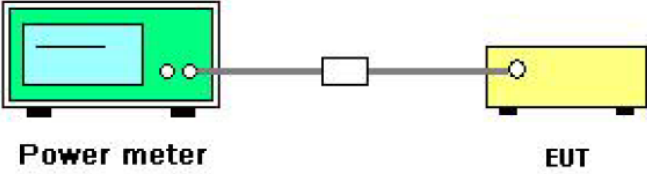
Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

4.2. Maximum Conducted Output Power

4.2.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)	
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E	
Limit:	Frequency Band (MHz)	Limit
	5725-5850	1 W
Test Setup:	 Power meter EUT	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the conducted output power and record the results in the test report.	
Test Result:	PASS	
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power	

4.2.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
Power meter	Agilent	E4419B	HKE-085	Feb. 20, 2024	Feb. 19, 2025
Power Sensor	Agilent	E9300A	HKE-086	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Power meter	Agilent	E4419B	HKE-085	Feb. 19, 2025	Feb. 18, 2026
Power Sensor	Agilent	E9300A	HKE-086	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Test Data

Configuration Band IV (5725 - 5850 MHz)				
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
802.11a	CH149	4.48	30	PASS
802.11a	CH157	3.80	30	PASS
802.11a	CH165	3.43	30	PASS
802.11n(HT20)	CH149	5.14	30	PASS
802.11n(HT20)	CH157	4.36	30	PASS
802.11n(HT20)	CH165	4.16	30	PASS
802.11n(HT40)	CH151	5.29	30	PASS
802.11n(HT40)	CH159	4.70	30	PASS
802.11ac(HT20)	CH149	5.17	30	PASS
802.11ac(HT20)	CH157	4.31	30	PASS
802.11ac(HT20)	CH165	4.12	30	PASS
802.11ac(HT40)	CH151	5.38	30	PASS
802.11ac(HT40)	CH159	4.73	30	PASS
802.11ac(HT80)	CH155	5.18	30	PASS
Note: 1.The test results including the cable lose.				

4.3. 6dB Emission Bandwidth

4.3.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section C
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

4.3.2. Test Instruments

RF Test Room

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

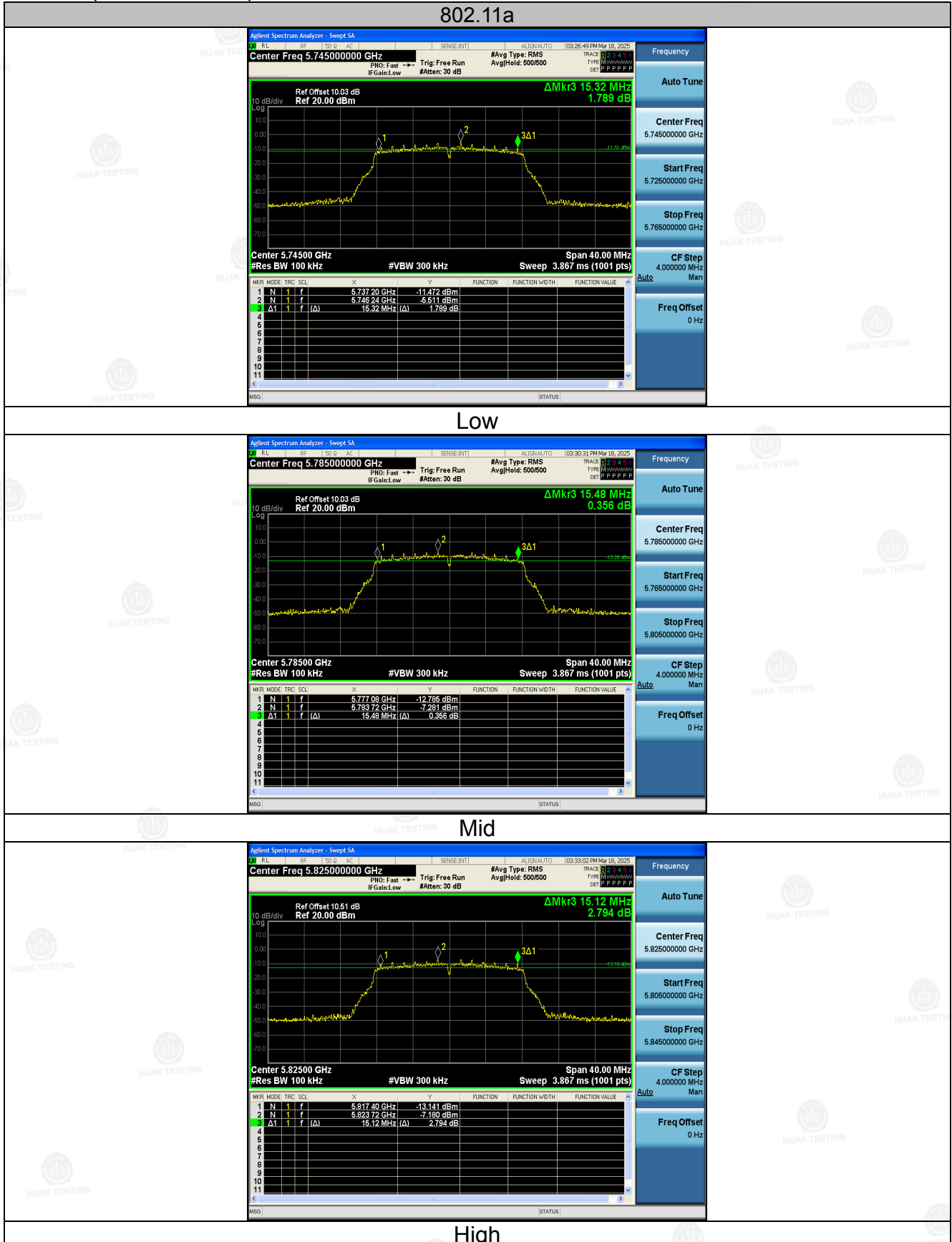
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.3.3. Test Data

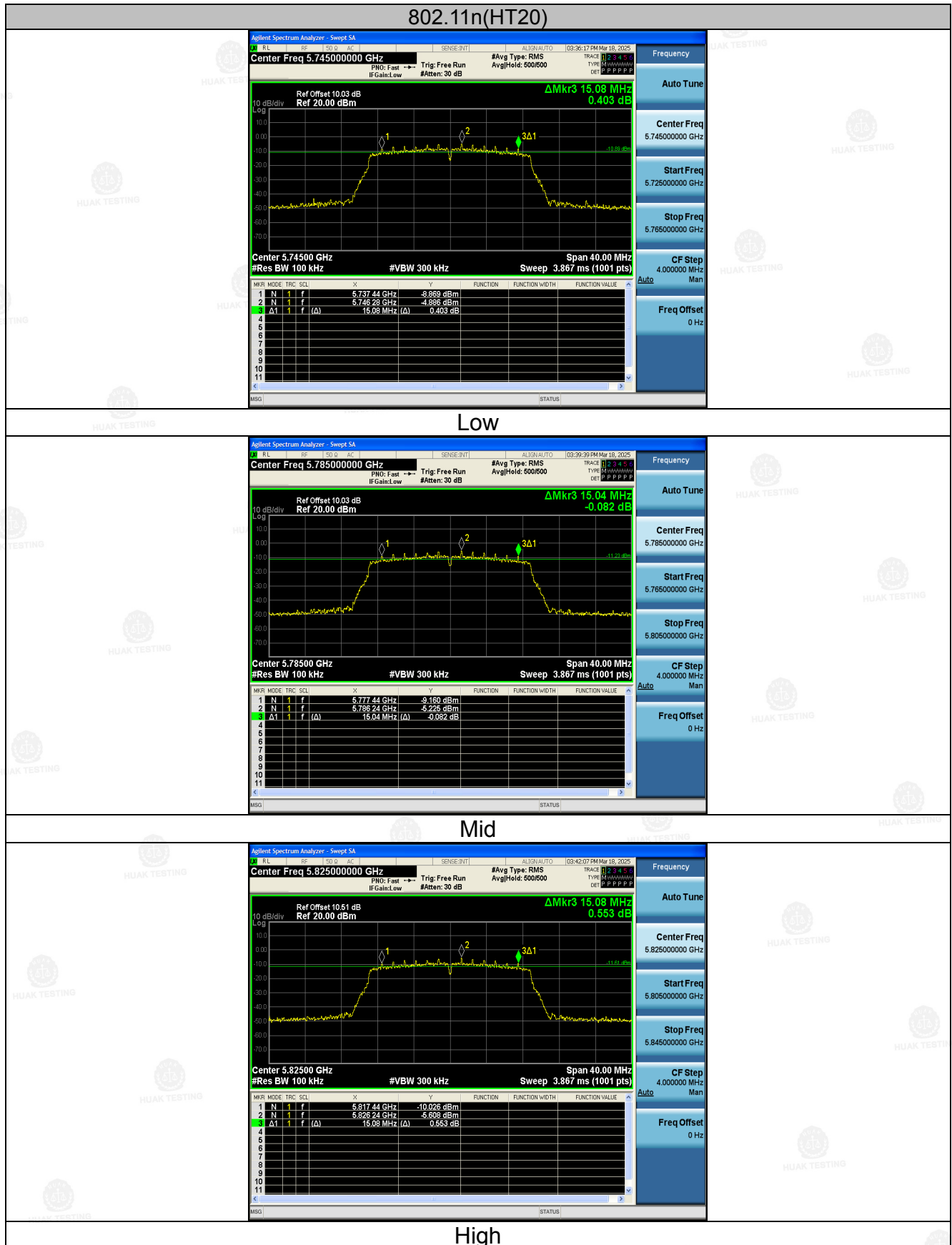
Band IV (5725 - 5850 MHz)					
Mode	Test Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	CH149	5745	15.320	0.5	PASS
802.11a	CH157	5785	15.480	0.5	PASS
802.11a	CH165	5825	15.120	0.5	PASS
802.11n(HT20)	CH149	5745	15.080	0.5	PASS
802.11n(HT20)	CH157	5785	15.040	0.5	PASS
802.11n(HT20)	CH165	5825	15.080	0.5	PASS
802.11n(HT40)	CH151	5755	35.120	0.5	PASS
802.11n(HT40)	CH159	5795	35.040	0.5	PASS
802.11ac(HT20)	CH149	5745	15.440	0.5	PASS
802.11ac(HT20)	CH157	5785	15.040	0.5	PASS
802.11ac(HT20)	CH165	5825	15.080	0.5	PASS
802.11ac(HT40)	CH151	5755	35.120	0.5	PASS
802.11ac(HT40)	CH159	5795	35.120	0.5	PASS
802.11ac(HT80)	CH155	5775	75.200	0.5	PASS

Test plots as follows:

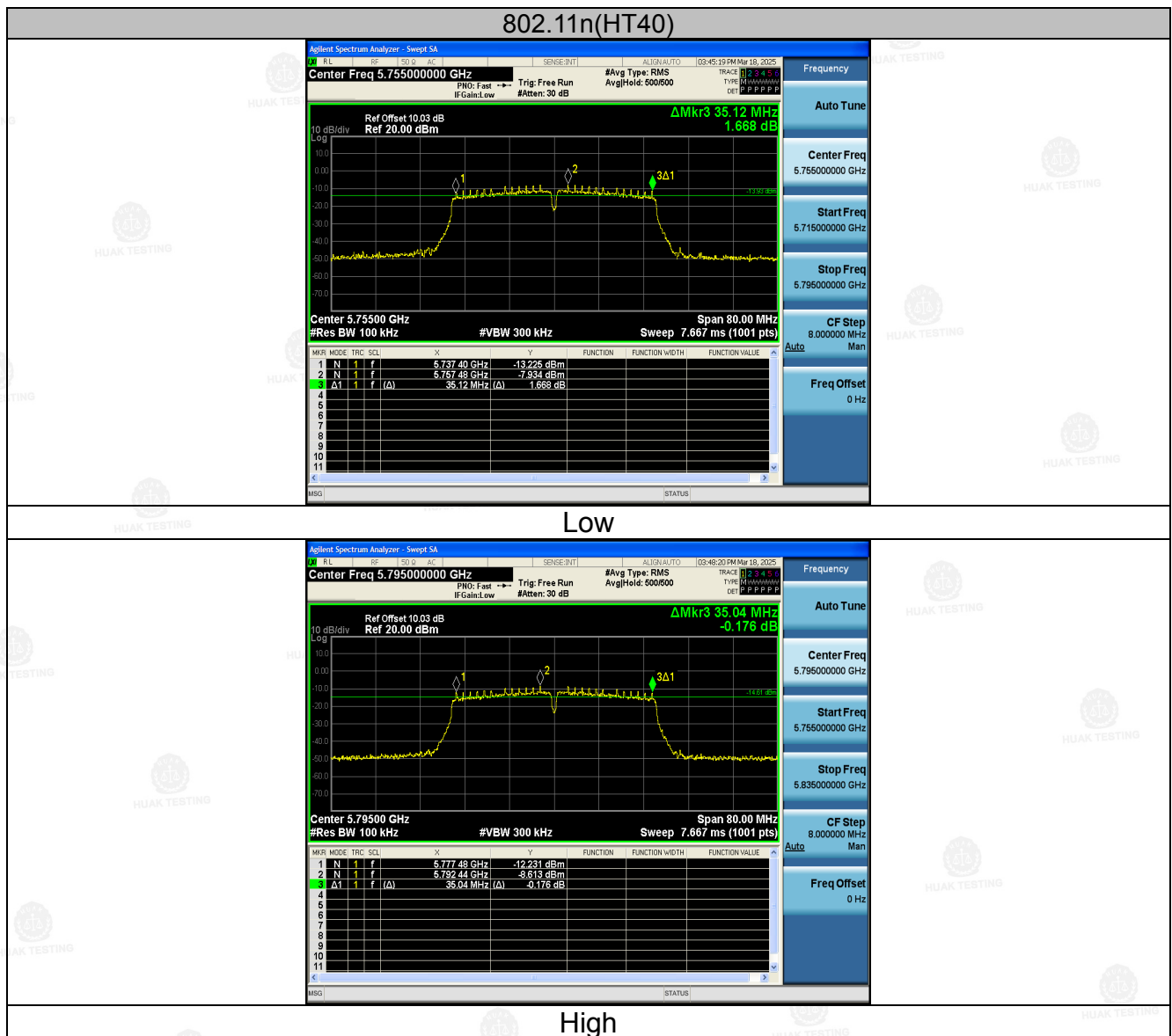
Band IV (5725 – 5850 MHz)



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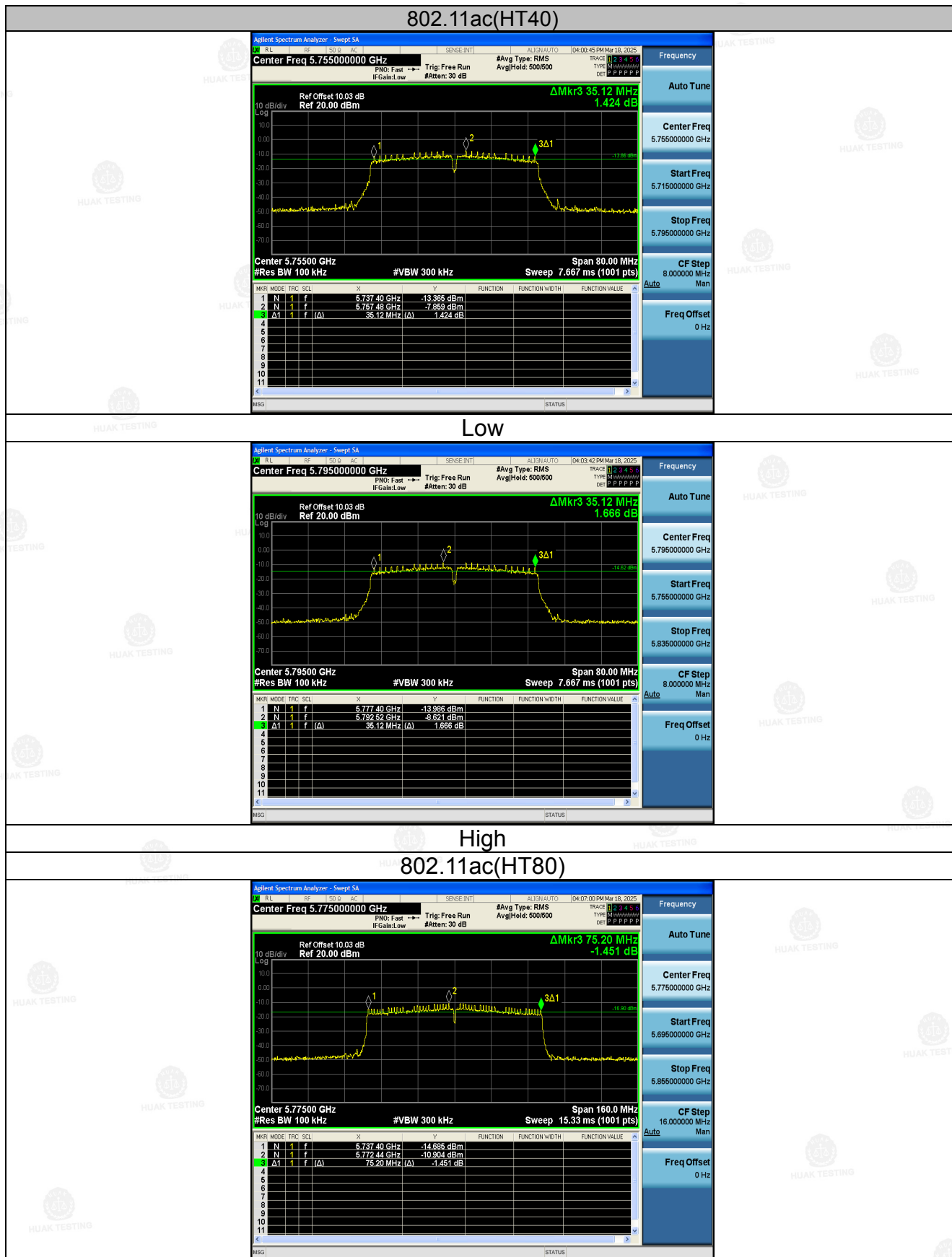


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4.4. 26dB Bandwidth and 99% Occupied Bandwidth

4.4.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	No restriction limits
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth $RBW = 1\% \text{ EBW}$, $VBW \geq 3RBW$, In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	N/A

4.4.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

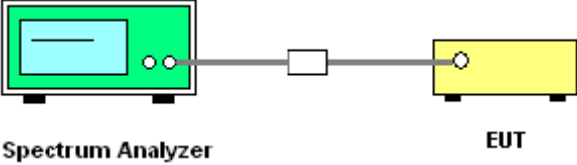
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.4.3. Test Result

N/A

4.5. Power Spectral Density

4.5.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤30.00dBm/500KHz for Band IV 5725MHz-5850MHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 2. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 3. Allow the sweeps to continue until the trace stabilizes. 4. Use the peak marker function to determine the maximum amplitude level. 5. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

4.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

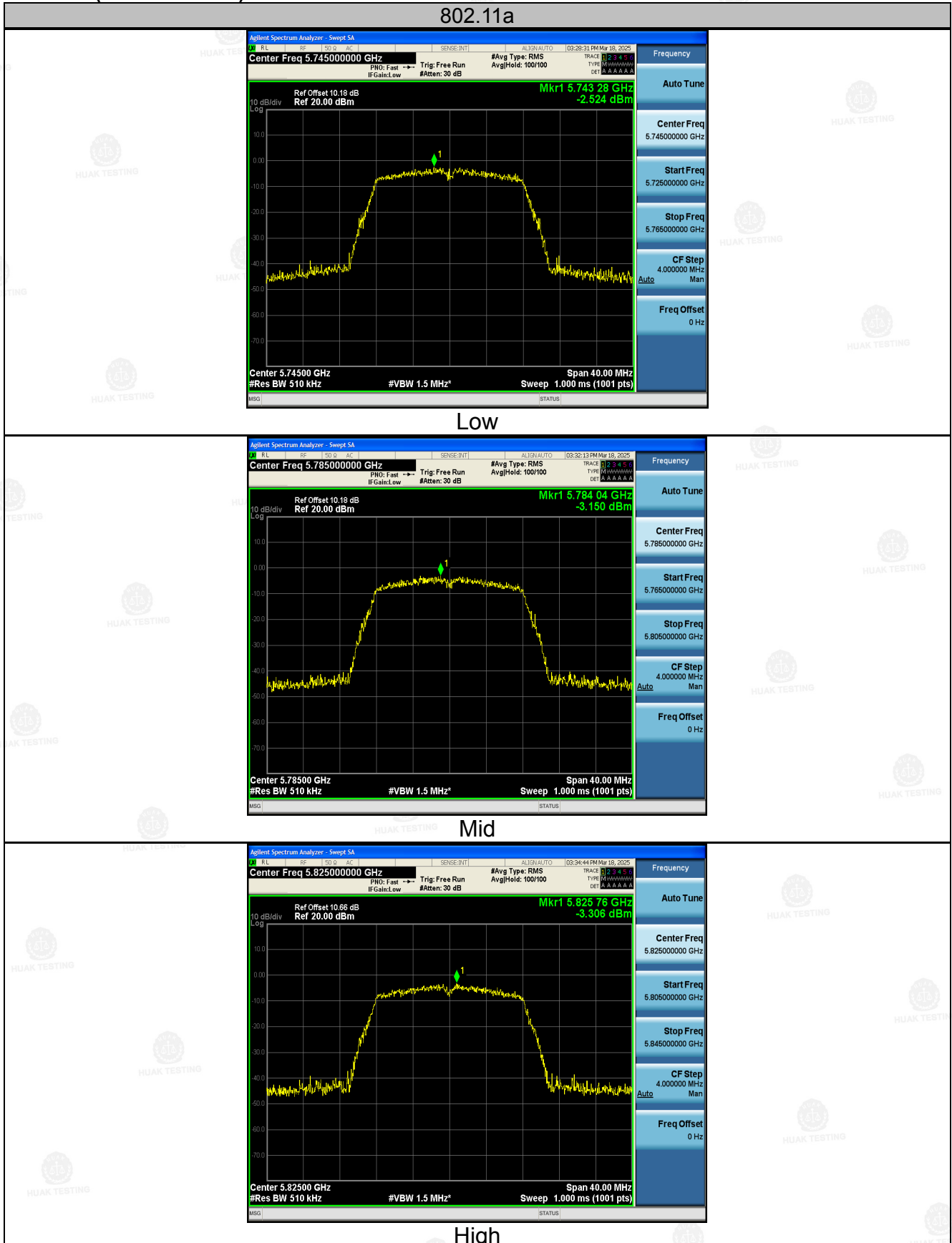
4.5.3. Test Data

Configuration Band IV (5725 - 5850 MHz)						
Mode	Test Channel	Level [dBm/510kHz]	10log(500/510)	Power Spectral Density	Limit (dBm/500kHz)	Result
802.11a	CH149	-2.52	-0.086	-2.606	30	PASS
802.11a	CH157	-3.15	-0.086	-3.236	30	PASS
802.11a	CH165	-3.31	-0.086	-3.396	30	PASS
802.11n(HT20)	CH149	-0.95	-0.086	-1.036	30	PASS
802.11n(HT20)	CH157	-2.64	-0.086	-2.726	30	PASS
802.11n(HT20)	CH165	-2.39	-0.086	-2.476	30	PASS
802.11n(HT40)	CH151	-4.36	-0.086	-4.446	30	PASS
802.11n(HT40)	CH159	-5.46	-0.086	-5.546	30	PASS
802.11ac(HT20)	CH149	-0.98	-0.086	-1.066	30	PASS
802.11ac(HT20)	CH157	-2.34	-0.086	-2.426	30	PASS
802.11ac(HT20)	CH165	-2.42	-0.086	-2.506	30	PASS
802.11ac(HT40)	CH151	-3.99	-0.086	-4.076	30	PASS
802.11ac(HT40)	CH159	-5.46	-0.086	-5.546	30	PASS
802.11ac(HT80)	CH155	-6.41	-0.086	-6.496	30	PASS

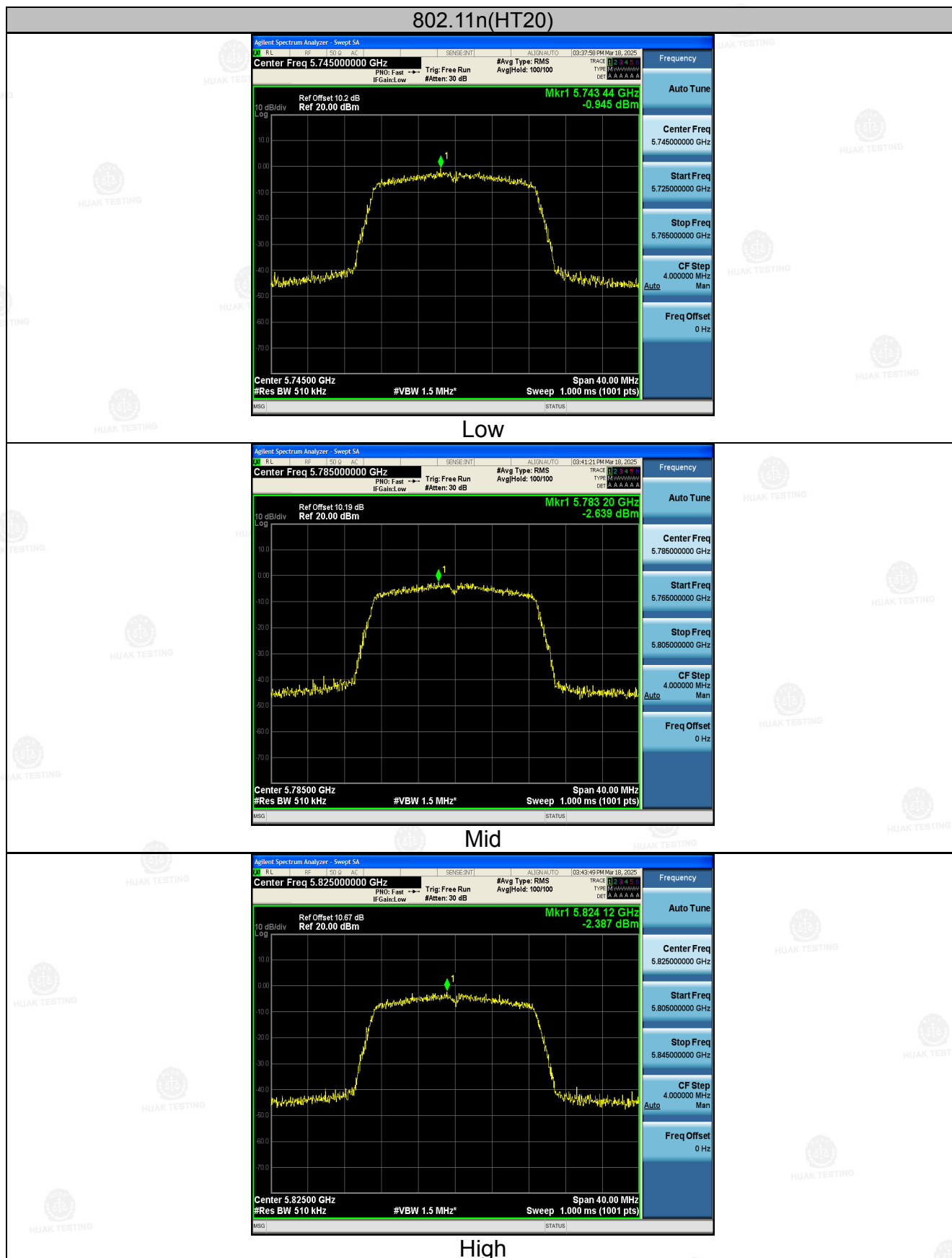
Note: Power Spectral Density= Level [dBm/510kHz] + (10log(Limit RBW/Test RBW))

Test plots as follows:

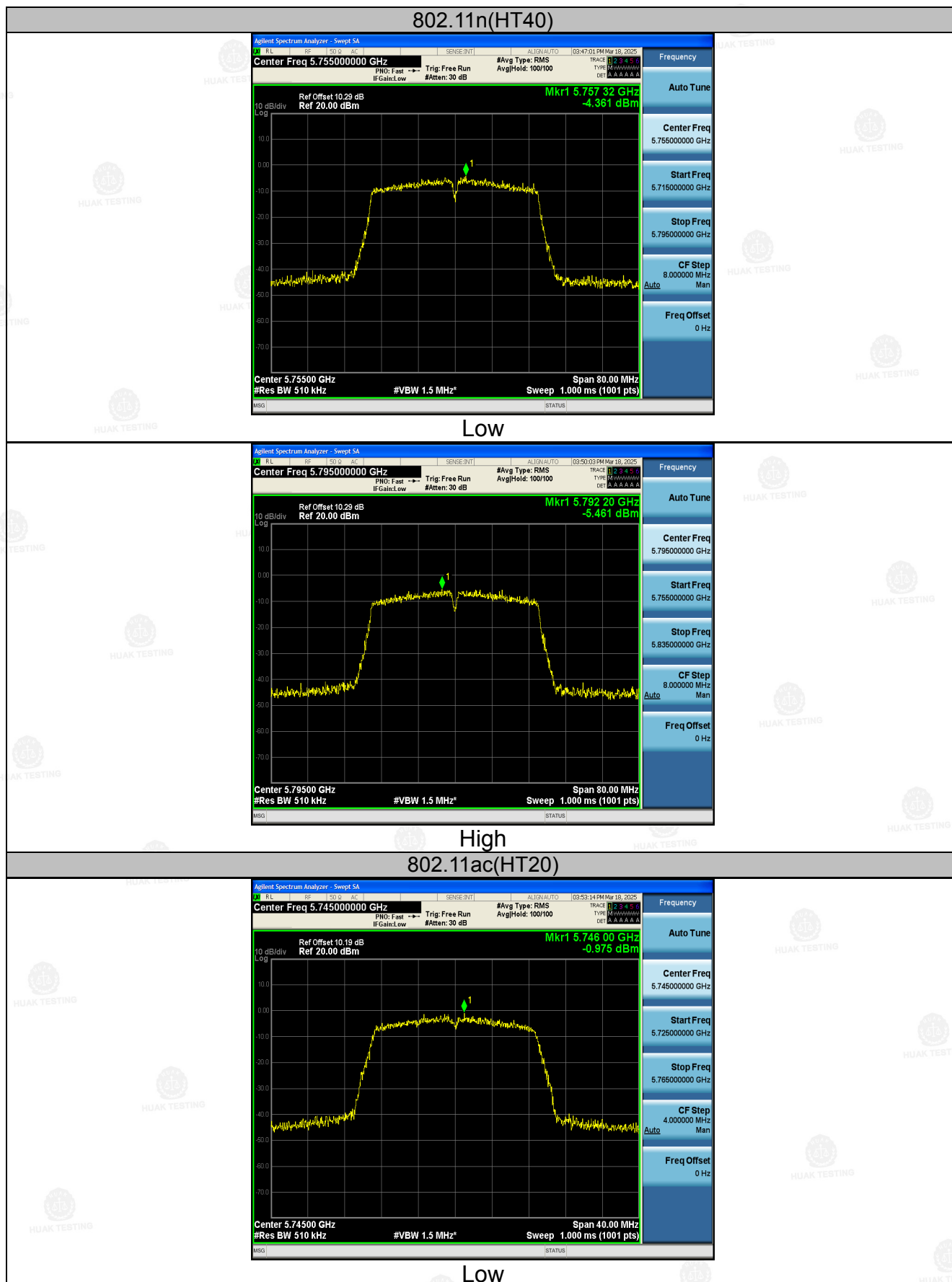
Band IV (5725-5850MHz)



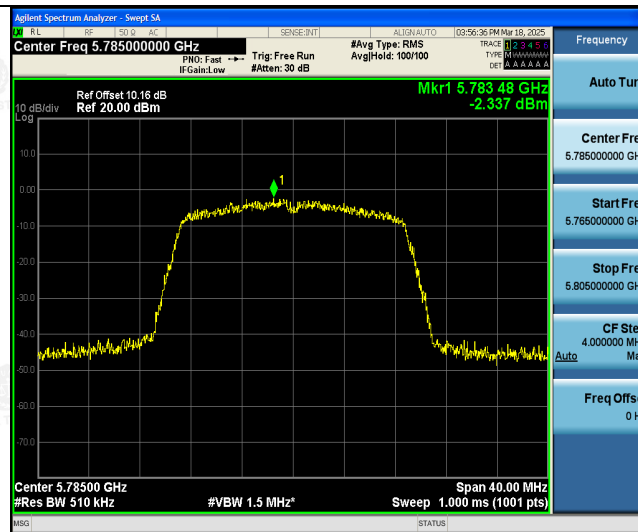
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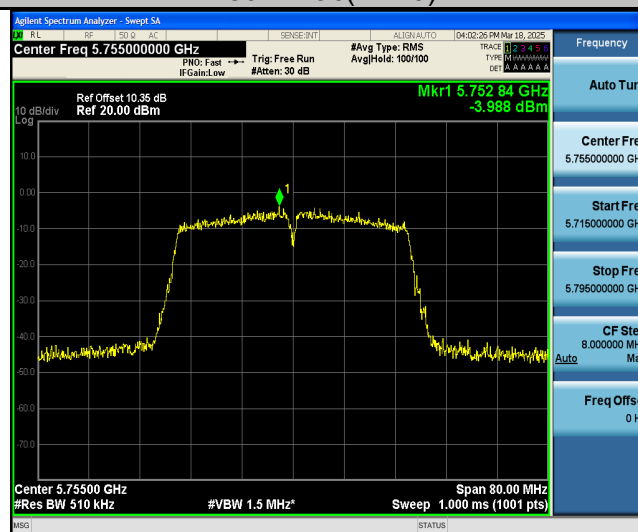


Mid



High

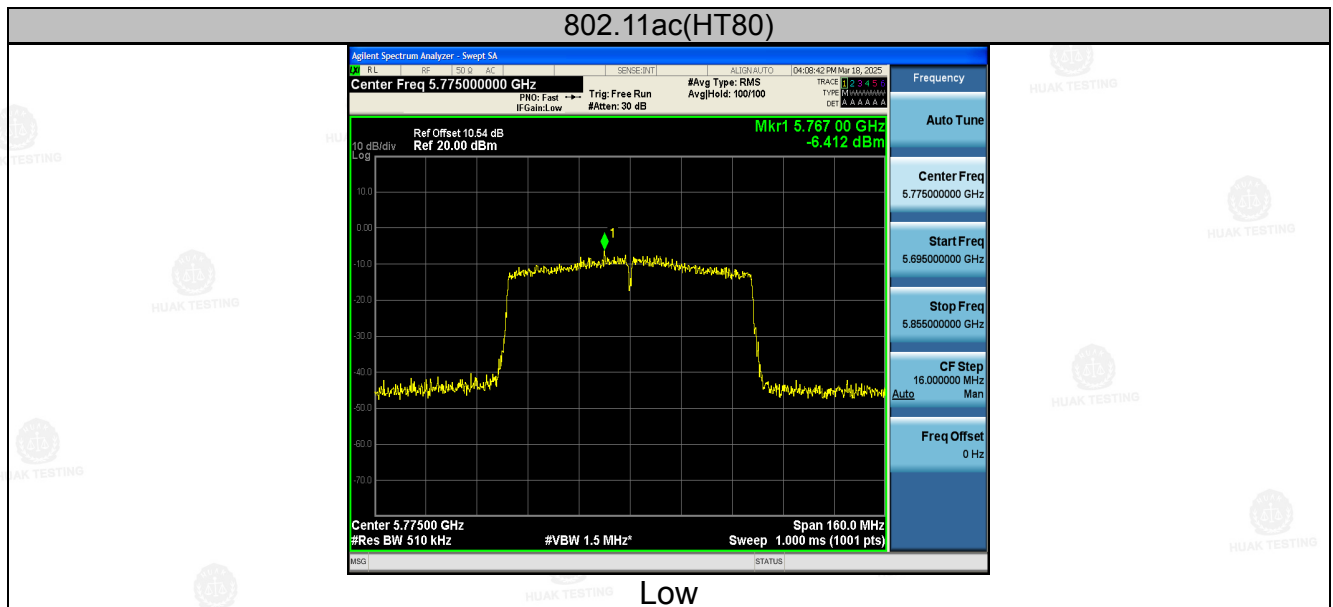
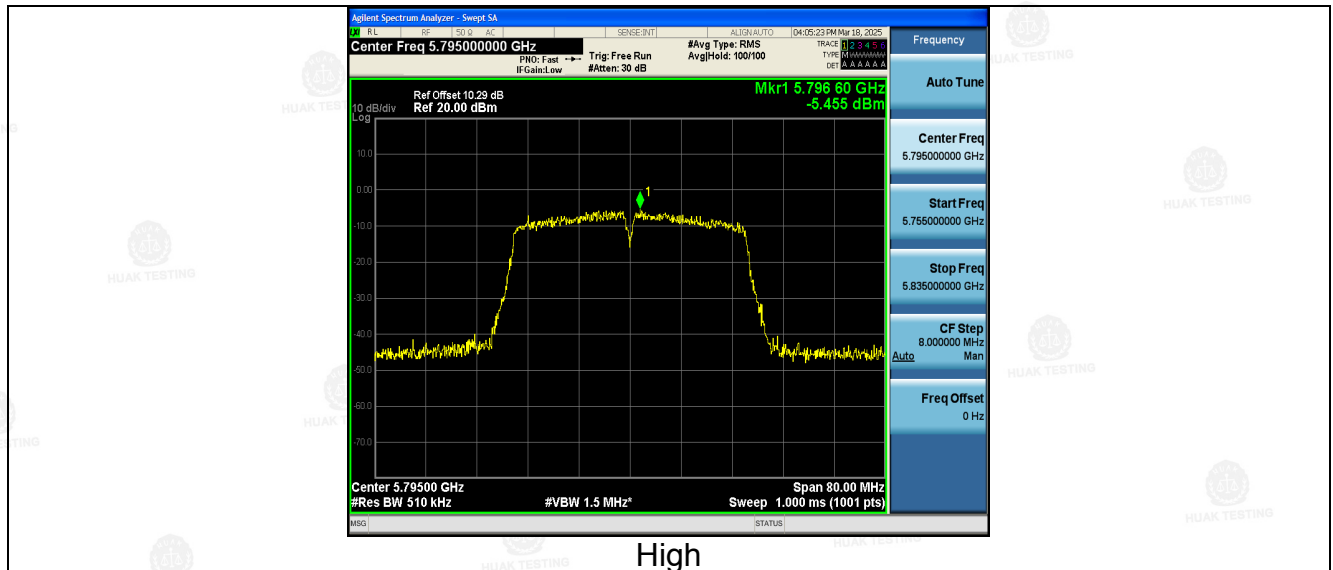
802.11ac(HT40)



Low

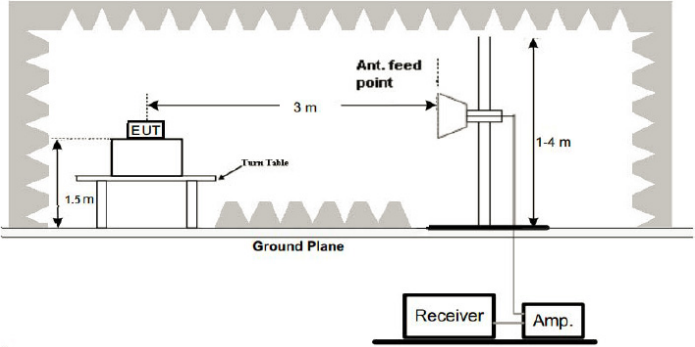
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4.6. Band Edge

4.6.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10 2013
Limit:	(1)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. The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.
Test Setup:	 The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a turn table, which is 1.5 m high. The EUT is positioned 3 m from the antenna feed point. The antenna feed point is 1.4 m high. The entire setup is on a ground plane. A receiver and an amplifier are connected to the antenna feed point.
Test Mode:	Transmitting mode with modulation

Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 Result:	PASS

4.6.2. Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	Feb. 19, 2025
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	Feb. 19, 2025
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	Feb. 18, 2026
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	Feb. 18, 2026
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	Feb. 18, 2026
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.6.3. Test Data

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.88	-2.06	46.82	68.2	-21.38	peak
5700	81.58	-1.96	79.62	105.2	-25.58	peak
5720	87.21	-2.87	84.34	110.8	-26.46	peak
5725	100.08	-2.14	97.94	122.2	-24.26	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	50.36	-2.06	48.3	68.2	-19.9	peak
5700	82.43	-1.96	80.47	105.2	-24.73	peak
5720	85.85	-2.87	82.98	110.8	-27.82	peak
5725	100.43	-2.14	98.29	122.2	-23.91	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	101.62	-1.97	99.65	122.2	-22.55	peak
5855	84.26	-2.13	82.13	110.8	-28.67	peak
5875	83.29	-2.65	80.64	105.2	-24.56	peak
5925	51.66	-2.28	49.38	68.2	-18.82	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	95.21	-1.97	93.24	122.2	-28.96	peak
5855	87.39	-2.13	85.26	110.8	-25.54	peak
5875	77.92	-2.65	75.27	105.2	-29.93	peak
5925	53.52	-2.28	51.24	68.2	-16.96	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11n/HT20 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	50.83	-2.06	48.77	68.2	-19.43	peak
5700	80.59	-1.96	78.63	105.2	-26.57	peak
5720	92.75	-2.87	89.88	110.8	-20.92	peak
5725	105.16	-2.14	103.02	122.2	-19.18	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	50.46	-2.06	48.4	68.2	-19.8	peak
5700	80.12	-1.96	78.16	105.2	-27.04	peak
5720	92.83	-2.87	89.96	110.8	-20.84	peak
5725	105.85	-2.14	103.71	122.2	-18.49	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	103.08	-1.97	101.11	122.2	-21.09	peak
5855	88.28	-2.13	86.15	110.8	-24.65	peak
5875	84.39	-2.65	81.74	105.2	-23.46	peak
5925	50.58	-2.28	48.3	68.2	-19.9	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.29	-1.97	100.32	122.2	-21.88	peak
5855	88.86	-2.13	86.73	110.8	-24.07	peak
5875	84.25	-2.65	81.6	105.2	-23.6	peak
5925	50.49	-2.28	48.21	68.2	-19.99	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11n/HT40 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	52.74	-2.06	50.68	68.2	-17.52	peak
5700	89.62	-1.96	87.66	105.2	-17.54	peak
5720	84.39	-2.87	81.52	110.8	-29.28	peak
5725	104.49	-2.14	102.35	122.2	-19.85	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	52.15	-2.06	50.09	68.2	-18.11	peak
5700	89.63	-1.96	87.67	105.2	-17.53	peak
5720	83.04	-2.87	80.17	110.8	-30.63	peak
5725	105.33	-2.14	103.19	122.2	-19.01	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	98.22	-1.97	96.25	122.2	-25.95	peak
5855	86.19	-2.13	84.06	110.8	-26.74	peak
5875	83.72	-2.65	81.07	105.2	-24.13	peak
5925	50.29	-2.28	48.01	68.2	-20.19	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	98.16	-1.97	96.19	122.2	-26.01	peak
5855	86.92	-2.13	84.79	110.8	-26.01	peak
5875	83.03	-2.65	80.38	105.2	-24.82	peak
5925	50.42	-2.28	48.14	68.2	-20.06	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ac/HT20 Mode with 5.8G TX CH Low

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	53.32	-2.06	51.26	68.2	-16.94	
5700	78.68	-1.96	76.72	105.2	-28.48	peak
5720	87.96	-2.87	85.09	110.8	-25.71	peak
5725	101.11	-2.14	98.97	122.2	-23.23	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	51.91	-2.06	49.85	68.2	-18.35	
5700	77.83	-1.96	75.87	105.2	-29.33	peak
5720	88.49	-2.87	85.62	110.8	-25.18	peak
5725	100.71	-2.14	98.57	122.2	-23.63	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	100.16	-1.97	98.19	122.2	-24.01	peak
5855	86.08	-2.13	83.95	110.8	-26.85	peak
5875	77.37	-2.65	74.72	105.2	-30.48	peak
5925	50.74	-2.28	48.46	68.2	-19.74	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	99.56	-1.97	97.59	122.2	-24.61	peak
5855	86.74	-2.13	84.61	110.8	-26.19	peak
5875	78.82	-2.65	76.17	105.2	-29.03	peak
5925	52.08	-2.28	49.8	68.2	-18.4	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ac/HT40 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	50.94	-2.06	48.88	68.2	-19.32	peak
5700	77.07	-1.96	75.11	105.2	-30.09	peak
5720	89.42	-2.87	86.55	110.8	-24.25	peak
5725	100.55	-2.14	98.41	122.2	-23.79	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	51.76	-2.06	49.7	68.2	-18.5	peak
5700	78.25	-1.96	76.29	105.2	-28.91	peak
5720	88.66	-2.87	85.79	110.8	-25.01	peak
5725	101.12	-2.14	98.98	122.2	-23.22	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	99.08	-1.97	97.11	122.2	-25.09	peak
5855	85.81	-2.13	83.68	110.8	-27.12	peak
5875	81.59	-2.65	78.94	105.2	-26.26	peak
5925	49.32	-2.28	47.04	68.2	-21.16	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	98.42	-1.97	96.45	122.2	-25.75	peak
5855	86.39	-2.13	84.26	110.8	-26.54	peak
5875	80.39	-2.65	77.74	105.2	-27.46	peak
5925	48.86	-2.28	46.58	68.2	-21.62	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ac/HT80 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	53.19	-2.06	51.13	68.2	-17.07	peak
5700	81.39	-1.96	79.43	105.2	-25.77	peak
5720	88.12	-2.87	85.25	110.8	-25.55	peak
5725	103.48	-2.14	101.34	122.2	-20.86	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	51.66	-2.06	49.6	68.2	-18.6	peak
5700	81.18	-1.96	79.22	105.2	-25.98	peak
5720	87.6	-2.87	84.73	110.8	-26.07	peak
5725	102.01	-2.14	99.87	122.2	-22.33	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	105.61	-1.97	103.64	122.2	-18.56	peak
5855	86.16	-2.13	84.03	110.8	-26.77	peak
5875	82.49	-2.65	79.84	105.2	-25.36	peak
5925	49.93	-2.28	47.65	68.2	-20.55	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	101.61	-1.97	99.64	122.2	-22.56	peak
5855	88.74	-2.13	86.61	110.8	-24.19	peak
5875	83.63	-2.65	80.98	105.2	-24.22	peak
5925	51.71	-2.28	49.43	68.2	-18.77	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

All the test modes completed for test. Only the worst result of Mode 1(802.11a Mode)

Series Model No.: R12 pro

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	48.47	-2.06	46.41	68.2	-21.79	peak
5700	80.45	-1.96	78.49	105.2	-26.71	peak
5720	85.69	-2.87	82.82	110.8	-27.98	peak
5725	98.97	-2.14	96.83	122.2	-25.37	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	49.21	-2.06	47.15	68.2	-21.05	peak
5700	82.44	-1.96	80.48	105.2	-24.72	peak
5720	86.77	-2.87	83.9	110.8	-26.9	peak
5725	98.37	-2.14	96.23	122.2	-25.97	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.33	-1.97	100.36	122.2	-21.84	peak
5855	83.19	-2.13	81.06	110.8	-29.74	peak
5875	82.69	-2.65	80.04	105.2	-25.16	peak
5925	50.84	-2.28	48.56	68.2	-19.64	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	93.51	-1.97	91.54	122.2	-30.66	peak
5855	86.18	-2.13	84.05	110.8	-26.75	peak
5875	77.18	-2.65	74.53	105.2	-30.67	peak
5925	52.25	-2.28	49.97	68.2	-18.23	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Series Model No.: P5 pro
Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	49.02	-2.06	46.96	68.2	-21.24	peak
5700	81.51	-1.96	79.55	105.2	-25.65	peak
5720	86.11	-2.87	83.24	110.8	-27.56	peak
5725	99.55	-2.14	97.41	122.2	-24.79	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.79	-2.06	46.73	68.2	-21.47	peak
5700	80.68	-1.96	78.72	105.2	-26.48	peak
5720	85.54	-2.87	82.67	110.8	-28.13	peak
5725	98.37	-2.14	96.23	122.2	-25.97	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.02	-1.97	100.05	122.2	-22.15	peak
5855	82.46	-2.13	80.33	110.8	-30.47	peak
5875	81.52	-2.65	78.87	105.2	-26.33	peak
5925	51.03	-2.28	48.75	68.2	-19.45	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	101.39	-1.97	99.42	122.2	-22.78	peak
5855	81.78	-2.13	79.65	110.8	-31.15	peak
5875	81.77	-2.65	79.12	105.2	-26.08	peak
5925	51.03	-2.28	48.75	68.2	-19.45	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Series Model No.: E50 Ultra

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	47.62	-2.06	45.56	68.2	-22.64	peak
5700	80.53	-1.96	78.57	105.2	-26.63	peak
5720	86.15	-2.87	83.28	110.8	-27.52	peak
5725	99.43	-2.14	97.29	122.2	-24.91	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.65	-2.06	46.59	68.2	-21.61	peak
5700	80.59	-1.96	78.63	105.2	-26.57	peak
5720	86.84	-2.87	83.97	110.8	-26.83	peak
5725	97.78	-2.14	95.64	122.2	-26.56	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.76	-1.97	100.79	122.2	-21.41	peak
5855	83.35	-2.13	81.22	110.8	-29.58	peak
5875	81.67	-2.65	79.02	105.2	-26.18	peak
5925	50.51	-2.28	48.23	68.2	-19.97	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.72	-1.97	100.75	122.2	-21.45	peak
5855	83.05	-2.13	80.92	110.8	-29.88	peak
5875	81.52	-2.65	78.87	105.2	-26.33	peak
5925	50.61	-2.28	48.33	68.2	-19.87	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Series Model No.: I16 pro max
Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	49.14	-2.06	47.08	68.2	-21.12	peak
5700	81.37	-1.96	79.41	105.2	-25.79	peak
5720	87.19	-2.87	84.32	110.8	-26.48	peak
5725	98.24	-2.14	96.1	122.2	-26.1	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.09	-2.06	46.03	68.2	-22.17	peak
5700	81.13	-1.96	79.17	105.2	-26.03	peak
5720	86.28	-2.87	83.41	110.8	-27.39	peak
5725	98.05	-2.14	95.91	122.2	-26.29	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	101.29	-1.97	99.32	122.2	-22.88	peak
5855	83.27	-2.13	81.14	110.8	-29.66	peak
5875	81.81	-2.65	79.16	105.2	-26.04	peak
5925	49.95	-2.28	47.67	68.2	-20.53	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	101.59	-1.97	99.62	122.2	-22.58	peak
5855	83.08	-2.13	80.95	110.8	-29.85	peak
5875	82.93	-2.65	80.28	105.2	-24.92	peak
5925	50.17	-2.28	47.89	68.2	-20.31	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Series Model No.: P6 pro
Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.08	-2.06	46.02	68.2	-22.18	peak
5700	80.71	-1.96	78.75	105.2	-26.45	peak
5720	85.61	-2.87	82.74	110.8	-28.06	peak
5725	99.13	-2.14	96.99	122.2	-25.21	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	50.73	-2.06	48.67	68.2	-19.53	peak
5700	76.71	-1.96	74.75	105.2	-30.45	peak
5720	84.98	-2.87	82.11	110.8	-28.69	peak
5725	99.43	-2.14	97.29	122.2	-24.91	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.49	-1.97	100.52	122.2	-21.68	peak
5855	83.22	-2.13	81.09	110.8	-29.71	peak
5875	81.22	-2.65	78.57	105.2	-26.63	peak
5925	50.34	-2.28	48.06	68.2	-20.14	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.55	-1.97	100.58	122.2	-21.62	peak
5855	83.01	-2.13	80.88	110.8	-29.92	peak
5875	81.41	-2.65	78.76	105.2	-26.44	peak
5925	50.19	-2.28	47.91	68.2	-20.29	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Series Model No.: Sp20 Pro

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	49.49	-2.06	47.43	68.2	-20.77	peak
5700	82.34	-1.96	80.38	105.2	-24.82	peak
5720	85.75	-2.87	82.88	110.8	-27.92	peak
5725	98.12	-2.14	95.98	122.2	-26.22	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.57	-2.06	46.51	68.2	-21.69	peak
5700	80.82	-1.96	78.86	105.2	-26.34	peak
5720	85.92	-2.87	83.05	110.8	-27.75	peak
5725	98.46	-2.14	96.32	122.2	-25.88	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.72	-1.97	100.75	122.2	-21.45	peak
5855	83.43	-2.13	81.3	110.8	-29.5	peak
5875	81.56	-2.65	78.91	105.2	-26.29	peak
5925	50.53	-2.28	48.25	68.2	-19.95	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	101.28	-1.97	99.31	122.2	-22.89	peak
5855	82.22	-2.13	80.09	110.8	-30.71	peak
5875	82.14	-2.65	79.49	105.2	-25.71	peak
5925	49.69	-2.28	47.41	68.2	-20.79	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Series Model No.: OP12 pro

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.45	-2.06	46.39	68.2	-21.81	peak
5700	81.71	-1.96	79.75	105.2	-25.45	peak
5720	86.96	-2.87	84.09	110.8	-26.71	peak
5725	98.95	-2.14	96.81	122.2	-25.39	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	49.28	-2.06	47.22	68.2	-20.98	peak
5700	81.32	-1.96	79.36	105.2	-25.84	peak
5720	85.79	-2.87	82.92	110.8	-27.88	peak
5725	98.12	-2.14	95.98	122.2	-26.22	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.75	-1.97	100.78	122.2	-21.42	peak
5855	83.28	-2.13	81.15	110.8	-29.65	peak
5875	81.24	-2.65	78.59	105.2	-26.61	peak
5925	50.49	-2.28	48.21	68.2	-19.99	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	101.43	-1.97	99.46	122.2	-22.74	peak
5855	83.21	-2.13	81.08	110.8	-29.72	peak
5875	81.96	-2.65	79.31	105.2	-25.89	peak
5925	49.68	-2.28	47.4	68.2	-20.8	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Series Model No.: T3 Pro

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.81	-2.06	46.75	68.2	-21.45	peak
5700	81.62	-1.96	79.66	105.2	-25.54	peak
5720	87.33	-2.87	84.46	110.8	-26.34	peak
5725	98.94	-2.14	96.8	122.2	-25.4	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	47.94	-2.06	45.88	68.2	-22.32	peak
5700	80.98	-1.96	79.02	105.2	-26.18	peak
5720	86.64	-2.87	83.77	110.8	-27.03	peak
5725	99.12	-2.14	96.98	122.2	-25.22	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.54	-1.97	100.57	122.2	-21.63	peak
5855	83.28	-2.13	81.15	110.8	-29.65	peak
5875	82.57	-2.65	79.92	105.2	-25.28	peak
5925	51.09	-2.28	48.81	68.2	-19.39	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.38	-1.97	100.41	122.2	-21.79	peak
5855	83.43	-2.13	81.3	110.8	-29.5	peak
5875	81.82	-2.65	79.17	105.2	-26.03	peak
5925	51.13	-2.28	48.85	68.2	-19.35	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Series Model No.: P8 Pro

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	47.89	-2.06	45.83	68.2	-22.37	peak
5700	81.06	-1.96	79.1	105.2	-26.1	peak
5720	86.79	-2.87	83.92	110.8	-26.88	peak
5725	99.18	-2.14	97.04	122.2	-25.16	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	48.86	-2.06	46.8	68.2	-21.4	peak
5700	80.71	-1.96	78.75	105.2	-26.45	peak
5720	86.28	-2.87	83.41	110.8	-27.39	peak
5725	99.54	-2.14	97.4	122.2	-24.8	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	101.78	-1.97	99.81	122.2	-22.39	peak
5855	82.44	-2.13	80.31	110.8	-30.49	peak
5875	81.85	-2.65	79.2	105.2	-26	peak
5925	50.89	-2.28	48.61	68.2	-19.59	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	100.98	-1.97	99.01	122.2	-23.19	peak
5855	81.97	-2.13	79.84	110.8	-30.96	peak
5875	82.52	-2.65	79.87	105.2	-25.33	peak
5925	50.94	-2.28	48.66	68.2	-19.54	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

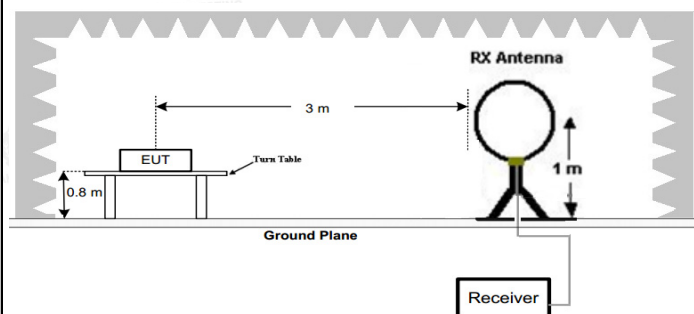
4.7. Spurious Emission

4.7.1. Test Specification

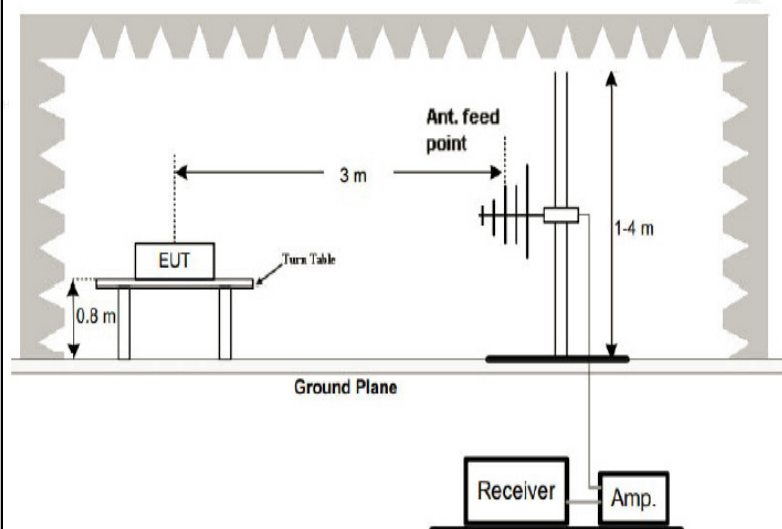
Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
Test Method:	KDB 789033 D02 v02r01				
Frequency Range:	9kHz to 40GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Transmitting mode with modulation				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	(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. The limit of frequency below 1GHz and which fall in restricted bands should comply 15.209.				

Test setup:

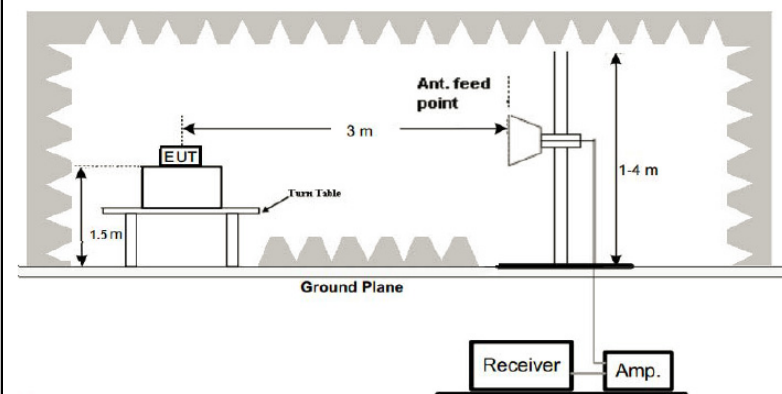
For radiated emissions below 30MHz



30MHz to 1GHz



Above 1GHz



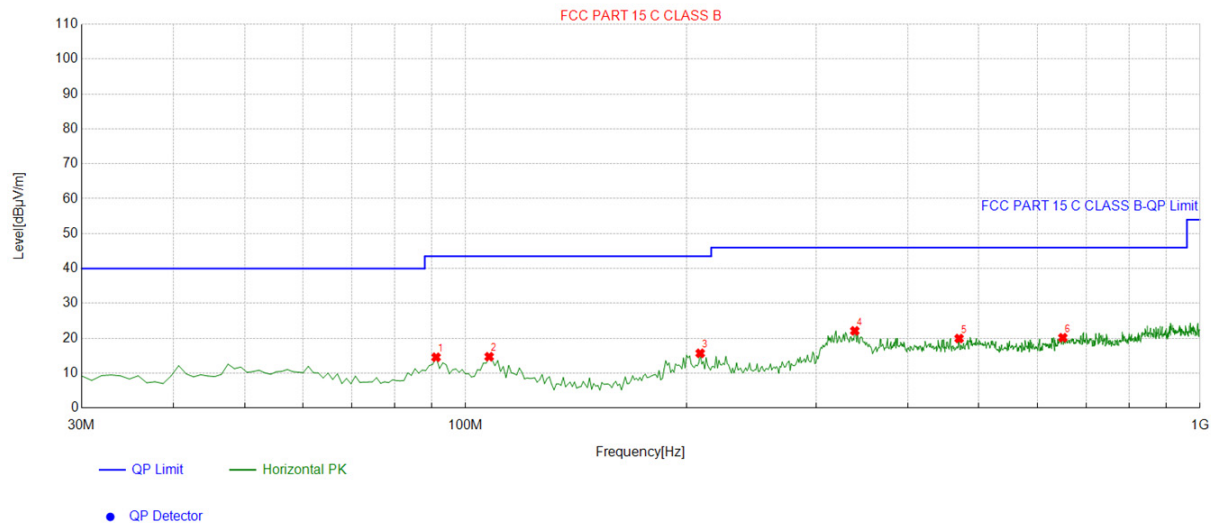
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 results:	PASS

4.7.2. Test Data

All the test modes completed for test. The worst case of Radiated Emission; the test data of this mode was reported.

Below 1GHz

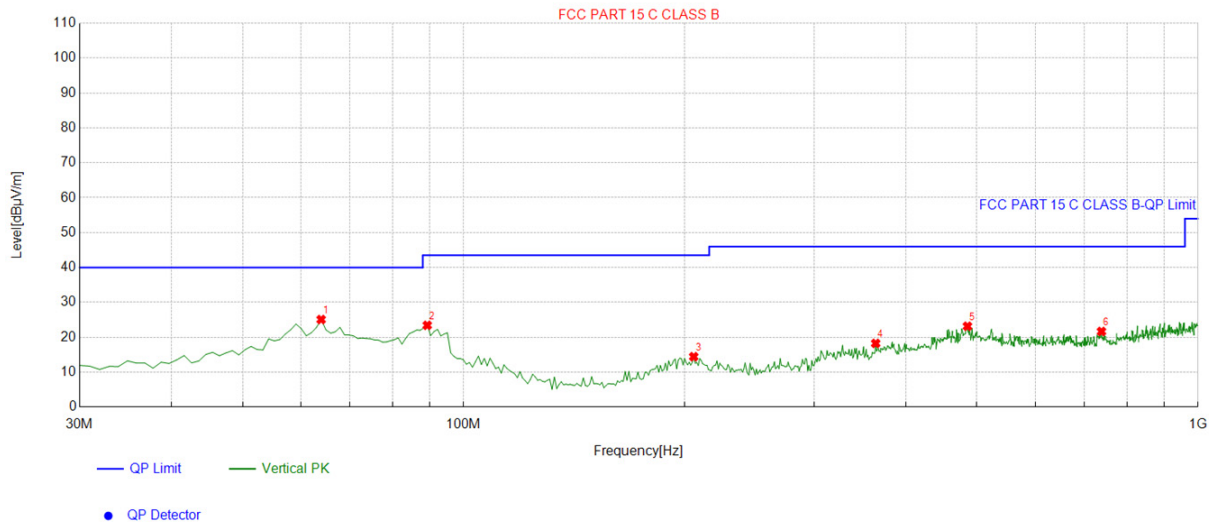
Test Model No.: S25 Ultra
Horizontal



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	91.171171	-16.91	31.47	14.56	43.50	28.94	100	349	Horizontal
2	107.67767	-14.18	28.89	14.71	43.50	28.79	100	56	Horizontal
3	208.65865	-15.01	30.70	15.69	43.50	27.81	100	85	Horizontal
4	338.76876	-10.40	32.52	22.12	46.00	23.88	100	68	Horizontal
5	469.84985	-8.54	28.47	19.93	46.00	26.07	100	255	Horizontal
6	650.45045	-5.14	25.30	20.16	46.00	25.84	100	310	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Vertical



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.983984	-14.38	39.47	25.09	40.00	14.91	100	19	Vertical
2	89.229229	-16.75	40.18	23.43	43.50	20.07	100	159	Vertical
3	205.74574	-15.25	29.69	14.44	43.50	29.06	100	331	Vertical
4	364.01401	-9.62	27.87	18.25	46.00	27.75	100	214	Vertical
5	485.38538	-7.93	31.09	23.16	46.00	22.84	100	151	Vertical
6	738.80880	-3.42	25.08	21.66	46.00	24.34	100	274	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level