

FCC Test Report

Client Name : Micronet Union Technology(Chengdu) Co., Ltd
Address : Room 502, Building 5, N.O. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu, Sichuan, China
Product Name : AC1200 Gigabit Dual Band Wi-Fi Router
Date : Dec. 14, 2021



Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Micronet Union Technology(Chengdu) Co., Ltd
Manufacturer : Micronet Union Technology(Chengdu) Co., Ltd
Product Name : AC1200 Gigabit Dual Band Wi-Fi Router
Model No. : T18-21X (X=A-Z or a-z), T18-PQX (X=A-Z or a-z), T18-BXX (X=A-Z or a-z)
(the last X=A-Z or a-z, which indicates for different appearance, dimension and color.)
Trade Mark : N.A.
Rating(s) : Input: DC 12V, 1A

**Test Standard(s) : FCC Part15 Subpart E, Paragraph 15.407
ANSI C63.10: 2013,**

**Test Method(s) : KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB662911 D01 Multiple Transmitter Output v02r01**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart E requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Oct. 22, 2021

Date of Test

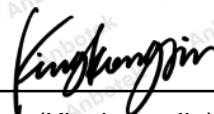
Oct. 25~Dec. 01, 2021

Prepared By



(Ella Liang)

Approved & Authorized Signer



(Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	Micronet Union Technology(Chengdu) Co., Ltd
Address	:	Room 502, Building 5, N.O. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu, Sichuan, China
Manufacturer	:	Micronet Union Technology(Chengdu) Co., Ltd
Address	:	Room 502, Building 5, N.O. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu, Sichuan, China
Factory	:	Micronet Union Technology(Chengdu) Co., Ltd
Address	:	Room 502, Building 5, N.O. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu, Sichuan, China

1.2. Description of Device (EUT)

Product Name	:	AC1200 Gigabit Dual Band Wi-Fi Router
Model No.	:	T18-21X (X=A-Z or a-z), T18-PQX (X=A-Z or a-z), T18-BXX (X=A-Z or a-z) (the last X=A-Z or a-z, which indicates for different appearance, dimension and color.) (Note: All samples are the same except the antenna of each series model is different, the antenna structure is different, and the color, shape, size are different, so we prepare T18-21A & T18-PQA & T18-BXA model for radiated emission test. Other items are test for T18-21A only.)
Trade Mark	:	N.A.
Test Power Supply	:	AC 120V, 60Hz for Adapter/ AC 240V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Product Description	:	Operation Frequency: 802.11b/ g/ n(HT20): 2412-2462MHz 802.11n (HT40): 2422-2452MHz WiFi 5.2G: 5180MHz~5240MHz WiFi 5.3G: 5260MHz~5320MHz WiFi 5.6G: 5500MHz~5580MHz, 5660MHz~5700MHz WiFi 5.8G: 5745MHz~5825MHz
		Number of Channel: 802.11b/ g/ n(HT20): 11 Channels 802.11n (HT40): 7 Channels WiFi 5.2G: 4 Channels for 802.11a/n(HT20)/ac(HT20) 2 Channels for 802.11n(HT40)/ac(HT40) 1 Channels for 802.11ac(HT80) WiFi 5.3G: 4 Channels for 802.11a/n(HT20)/ac(HT20) 2 Channels for 802.11n(HT40)/ac(HT40) 1 Channels for 802.11ac(HT80)

	<p>WiFi 5.6G: 8 Channels for 802.11a/n(HT20)/ac(HT20) 3 Channels for 802.11n(HT40)/ac(HT40) 1 Channels for 802.11ac(HT80)</p> <p>WiFi 5.8G: 5 Channels for 802.11a/n(HT20)/ac(HT20) 2 Channels for 802.11n(HT40)/ac(HT40) 1 Channels for 802.11ac(HT80)</p>
Modulation Type:	<p>WiFi 2.4G: CCK, DQPSK, DBPSK for DSSS; 64QAM, 16QAM, QPSK, BPSK for OFDM</p> <p>WiFi 5G: OFDM with BPSK, QPSK, 16QAM, 64QAM, 256QAM</p>
Antenna Type:	<p>For T18-21A: WiFi 2.4G: External Antenna WiFi 5G: External Antenna</p> <p>For T18-PQA & T18-BXA: WiFi 2.4G: PCB Antenna WiFi 5G: PCB Antenna</p>
Antenna Gain(Peak):	<p>For T18-21A: WiFi 2.4G ANT1/ ANT2: 5dBi (Provided by customer) WiFi 5G ANT1/ ANT2: 5dBi (Provided by customer)</p> <p>For T18-PQA & T18-BXA: WiFi 2.4G ANT1/ ANT2: 4dBi (Provided by customer) WiFi 5G ANT1/ ANT2: 4dBi (Provided by customer)</p>
Directional Gain:	<p>For T18-21A: WiFi 2.4G: 8.01dBi WiFi 5.2G/5.3G/5.6G/5.8G: 8.01dBi</p> <p>For T18-PQA /T18-BXA: WiFi 2.4G: 7.01dBi WiFi 5.2G/5.3G/5.6G/5.8G: 7.01dBi</p>
Adapter:	<p>Model No: MAUS-1201101202 Input: 100-240V~50/ 60Hz 0.35A Output: 12V---1.0A PN: MAUS-120100200026</p>

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) This report is for 5.2G WiFi&5.3G WiFi&5.6G &WiFi 5.8G module. 3) Only 802.11n(HT20), 802.11n(HT40), 802.11ac(HT20), 802.11ac(HT40), 802.11ac(HT80) support MIMO. 2) The EUT does not support the TPC function.

1.3. Auxiliary Equipment Used During Test

N/A	:	
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1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

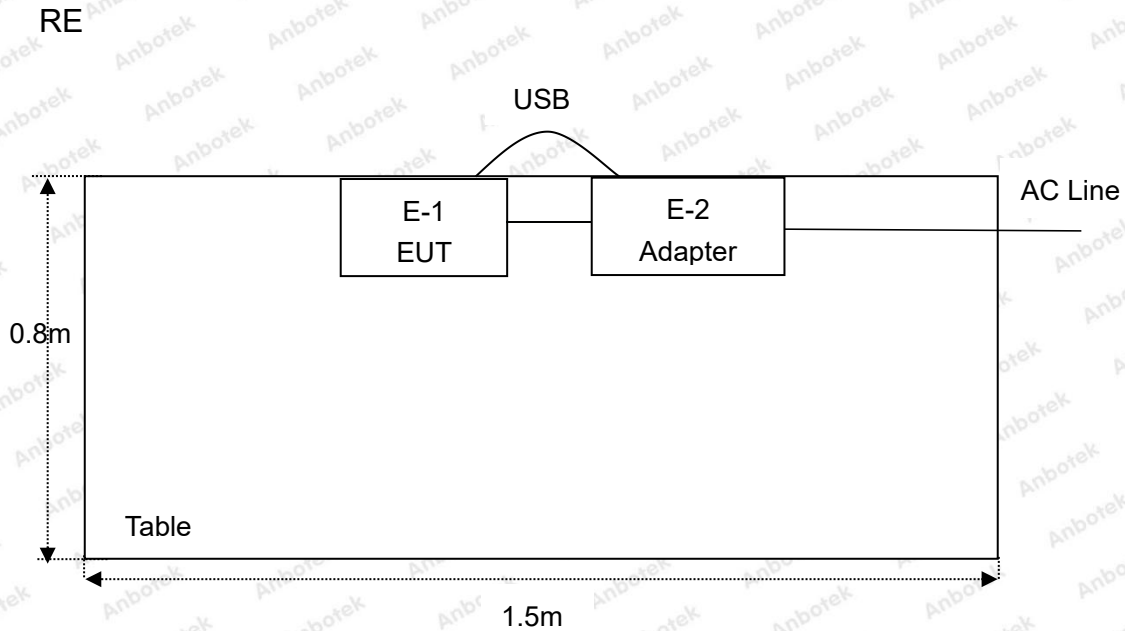
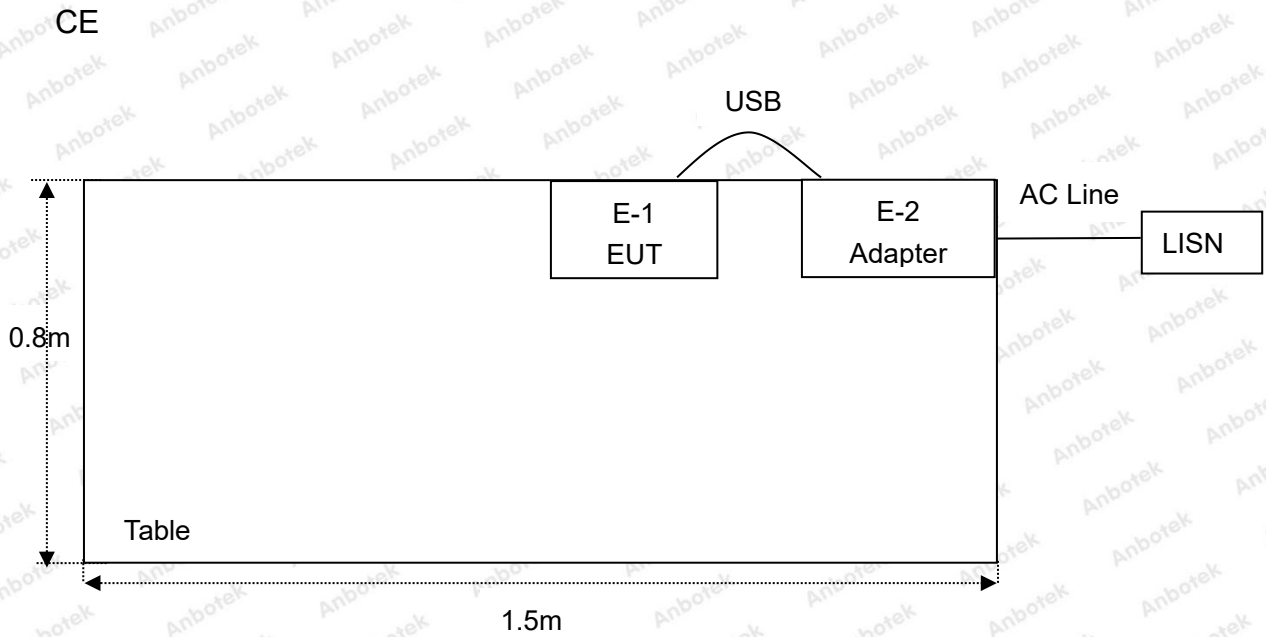
Frequency Band	Mode	Test channel	Frequency (MHz)
5.2GHz	OFDM(802.11a/n20/ac20)	CH 36	5180MHz
		CH 40	5200MHz
		CH 48	5240MHz
	OFDM(802.11n40/ac40)	CH 38	5190MHz
		CH 46	5230MHz
		CH 42	5210MHz
5.3GHz	OFDM(802.11a/n20/ac20)	CH 52	5260MHz
		CH 60	5300MHz
		CH 64	5320MHz
	OFDM(802.11n40/ac40)	CH 54	5270MHz
		CH 62	5310MHz
		CH 58	5290MHz
5.6GHz	OFDM(802.11a/n20/ac20)	CH 100	5500MHz
		CH 120	5600MHz
		CH 140	5700MHz
	OFDM(802.11n40/ac40)	CH 102	5510MHz
		CH 118	5590MHz
		CH 134	5670MHz
	OFDM(802.11ac80)	CH 106	5530MHz
		CH 122	5610MHz
5.8GHz	OFDM(802.11a/n20/ac20)	CH 149	5745MHz
		CH 157	5785MHz
		CH 165	5825MHz
	OFDM(802.11n40/ac40)	CH 151	5755MHz
		CH 159	5795MHz
	OFDM(802.11ac80)	CH 155	5775MHz

Note:

1. The measurements are performed at the highest, middle, lowest available channels.
2. The EUT has been tested as an independent unit. And Continual Transmitting in maximum power.
3. For the relevant Conducted Measurement, the temporary antenna connector is used during the measurement. Antenna Connector Impedance: 50Ω, Cable Loss: 1.0 dB
4. The EUT was programmed to be in continuously transmitting mode.



1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul 05, 2021	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 22, 2021	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 22, 2021	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 22, 2021	2 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 22, 2021	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 22, 2021	1 Year
14.	Power Sensor	DAER	RPR3006W	15100041SN045	Oct. 22, 2021	1 Year
15.	Power Sensor	DAER	RPR3006W	15100041SN046	Oct. 22, 2021	1 Year
16.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 22, 2021	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 22, 2021	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 22, 2021	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2021	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 22, 2021	1 Year

1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

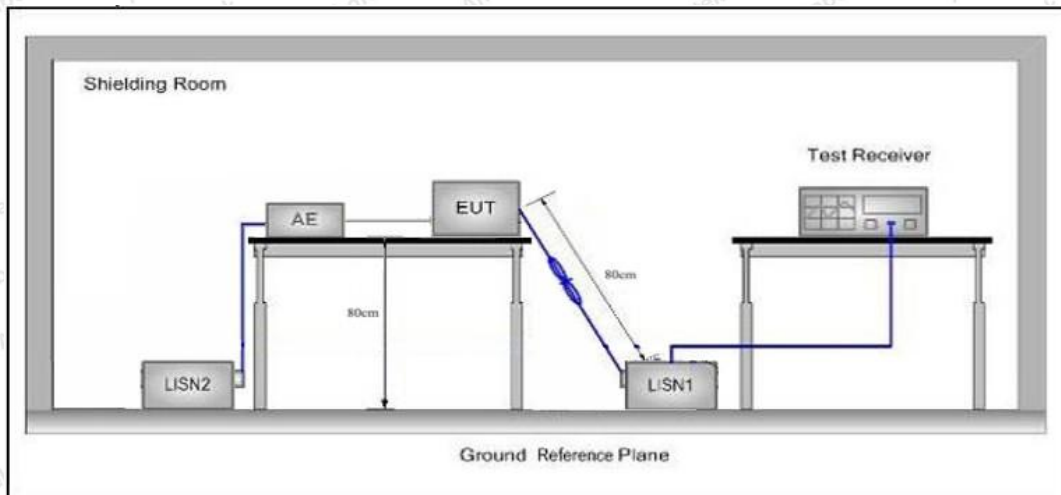
Standard	Test Type	Result
15.207 & 15.407	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.407(b)	Band Edge	PASS
15.407(a)(5)	Occupy Bandwidth	PASS
15.407(a)(1)(ii)	Maximum Conducted Output Power	PASS
15.407(a)(1)	Peak Power Spectral Density	PASS
15.203	Antenna Requirement	PASS
15.407(g)	Frequency Stability	PASS

3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207&15.407		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
Remark: (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

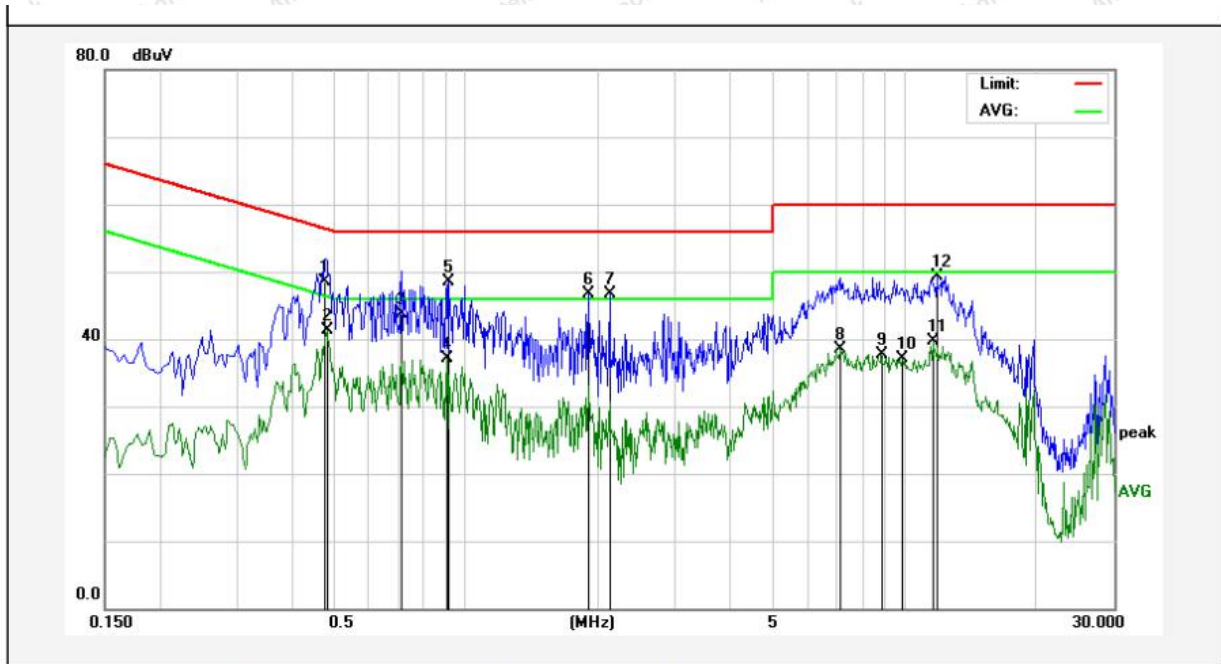
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes and all the Antenna Gain(5dBi and 4dBi), only the worst case is recorded in the report.

Conducted Emission Test Data

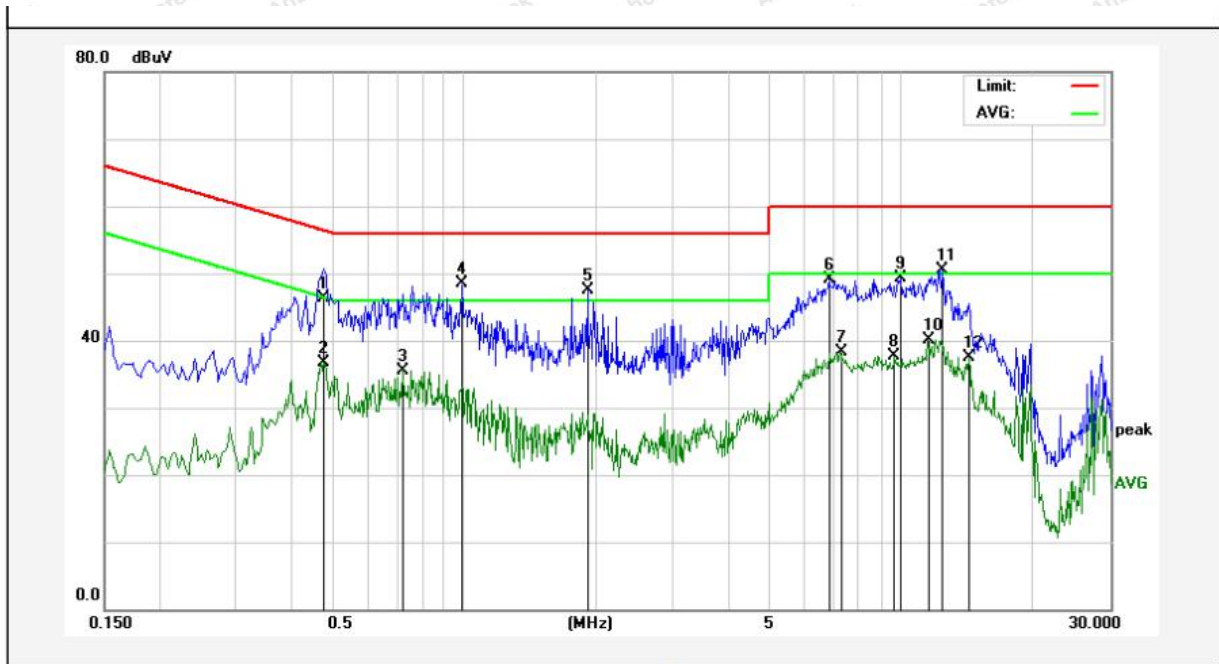
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5200MHz for ANT1+ANT2
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4780	48.31	0.14	48.45	56.37	-7.92	QP	
2	0.4819	41.11	0.14	41.25	46.31	-5.06	AVG	
3	0.7140	43.63	0.15	43.78	56.00	-12.22	QP	
4	0.9060	36.95	0.15	37.10	46.00	-8.90	AVG	
5	0.9140	48.36	0.15	48.51	56.00	-7.49	QP	
6	1.9060	46.58	0.12	46.70	56.00	-9.30	QP	
7	2.1260	46.55	0.12	46.67	56.00	-9.33	QP	
8	7.1540	38.49	0.11	38.60	50.00	-11.40	AVG	
9	8.8340	37.63	0.12	37.75	50.00	-12.25	AVG	
10	9.9100	37.06	0.12	37.18	50.00	-12.82	AVG	
11	11.5860	39.48	0.14	39.62	50.00	-10.38	AVG	
12	11.8500	49.09	0.14	49.23	60.00	-10.77	QP	

Conducted Emission Test Data

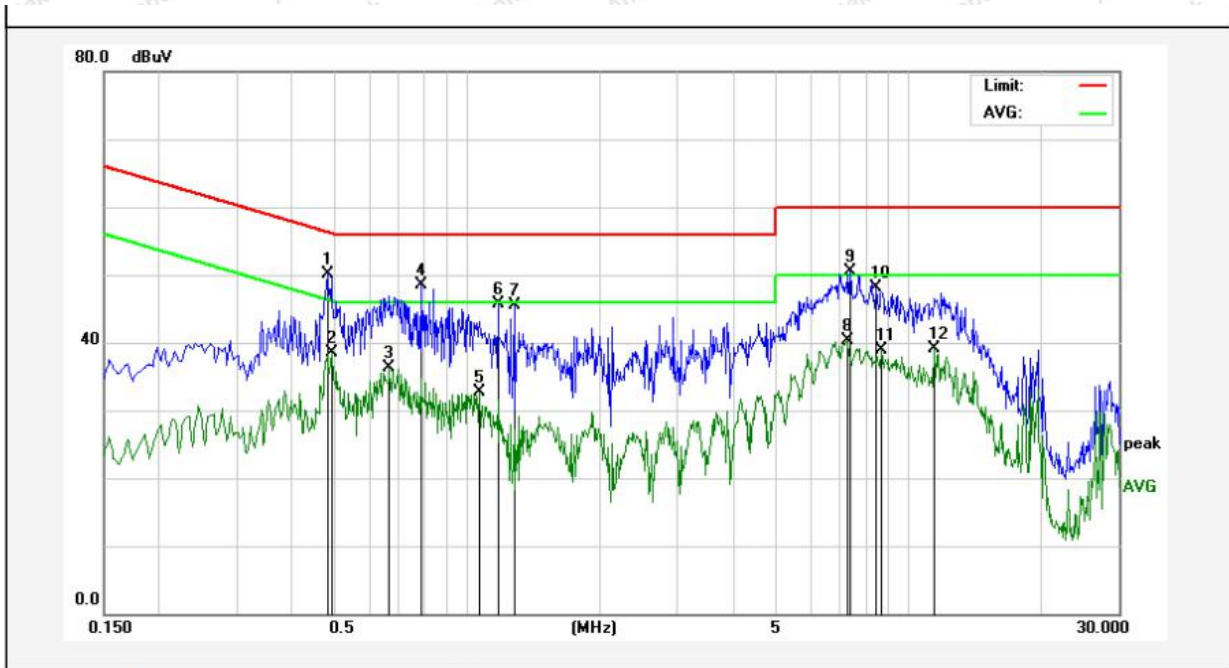
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5200MHz for ANT1+ANT2
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4780	46.13	0.14	46.27	56.37	-10.10	QP	
2	0.4780	36.55	0.14	36.69	46.37	-9.68	AVG	
3	0.7220	35.45	0.15	35.60	46.00	-10.40	AVG	
4	0.9860	48.36	0.15	48.51	56.00	-7.49	QP	
5	1.9180	47.33	0.12	47.45	56.00	-8.55	QP	
6	6.8100	49.05	0.11	49.16	60.00	-10.84	QP	
7	7.2220	38.22	0.11	38.33	50.00	-11.67	AVG	
8	9.6300	37.64	0.12	37.76	50.00	-12.24	AVG	
9	9.9620	49.11	0.12	49.23	60.00	-10.77	QP	
10	11.4660	39.99	0.13	40.12	50.00	-9.88	AVG	
11	12.4379	50.36	0.14	50.50	60.00	-9.50	QP	
12	14.2140	37.39	0.16	37.55	50.00	-12.45	AVG	

Conducted Emission Test Data

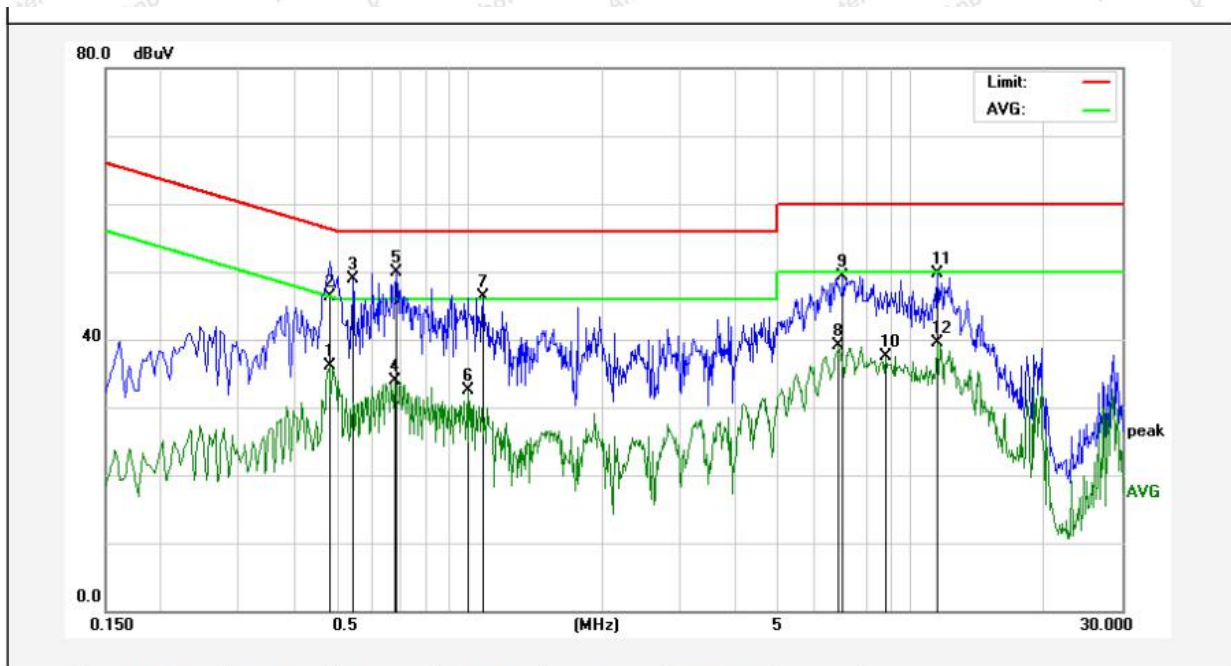
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5200MHz for ANT1+ANT2
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4820	50.03	0.14	50.17	56.30	-6.13	QP	
2	0.4940	38.36	0.15	38.51	46.10	-7.59	AVG	
3	0.6660	36.14	0.15	36.29	46.00	-9.71	AVG	
4	0.7860	48.42	0.15	48.57	56.00	-7.43	QP	
5	1.0660	32.49	0.15	32.64	46.00	-13.36	AVG	
6	1.1740	45.65	0.14	45.79	56.00	-10.21	QP	
7	1.2820	45.43	0.14	45.57	56.00	-10.43	QP	
8	7.2740	40.16	0.11	40.27	50.00	-9.73	AVG	
9	7.3820	50.38	0.11	50.49	60.00	-9.51	QP	
10	8.4740	47.95	0.12	48.07	60.00	-11.93	QP	
11	8.7100	38.70	0.12	38.82	50.00	-11.18	AVG	
12	11.4660	39.07	0.13	39.20	50.00	-10.80	AVG	

Conducted Emission Test Data

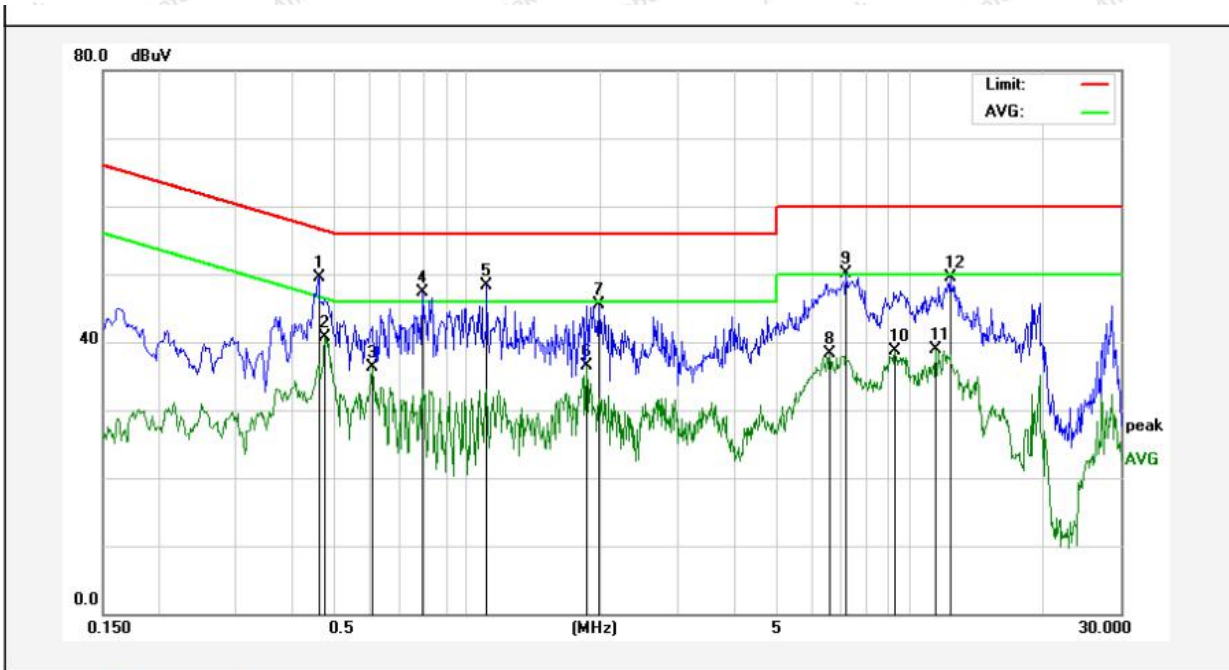
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 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5200MHz for ANT1+ANT2
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4820	35.95	0.14	36.09	46.30	-10.21	AVG	
2	0.4860	46.26	0.14	46.40	56.24	-9.84	QP	
3	0.5460	48.66	0.15	48.81	56.00	-7.19	QP	
4	0.6780	33.80	0.15	33.95	46.00	-12.05	AVG	
5	0.6860	49.76	0.15	49.91	56.00	-6.09	QP	
6	0.9900	32.28	0.15	32.43	46.00	-13.57	AVG	
7	1.0740	46.21	0.15	46.36	56.00	-9.64	QP	
8	6.8660	38.94	0.11	39.05	50.00	-10.95	AVG	
9	6.9900	49.12	0.11	49.23	60.00	-10.77	QP	
10	8.7460	37.46	0.12	37.58	50.00	-12.42	AVG	
11	11.4660	49.64	0.13	49.77	60.00	-10.23	QP	
12	11.4660	39.30	0.13	39.43	50.00	-10.57	AVG	

Conducted Emission Test Data

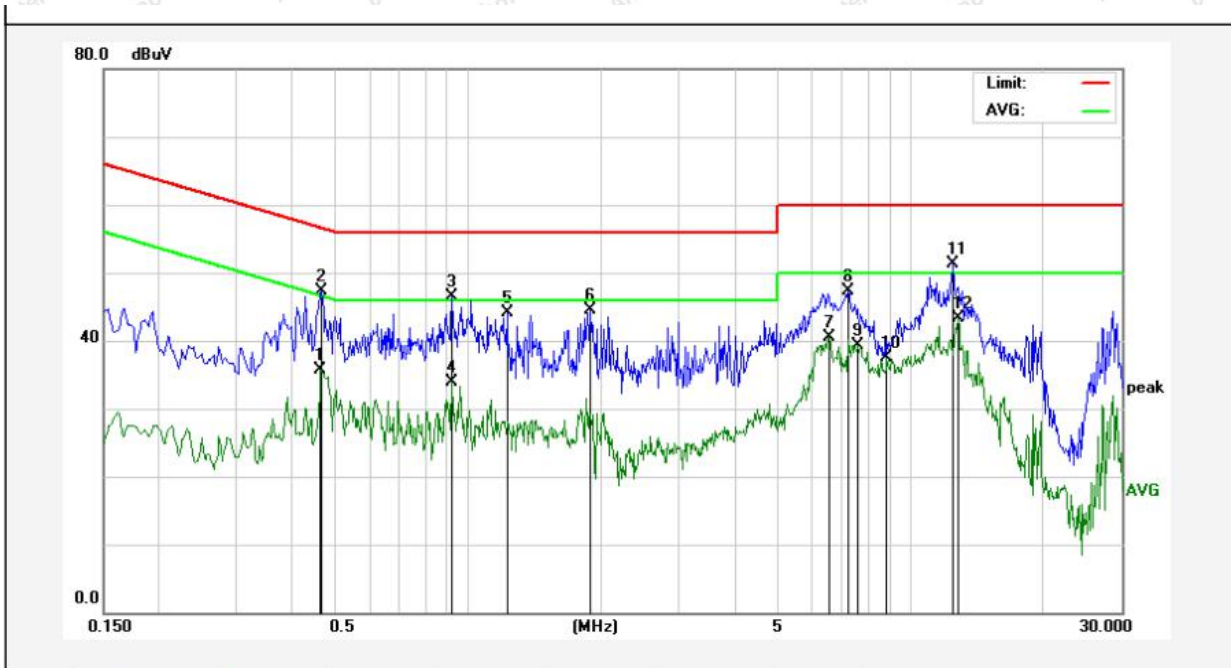
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5260MHz for ANT1+ANT2
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4620	49.30	0.13	49.43	56.66	-7.23	QP	
2	0.4778	40.52	0.14	40.66	46.38	-5.72	AVG	
3	0.6097	36.11	0.15	36.26	46.00	-9.74	AVG	
4	0.7940	47.19	0.15	47.34	56.00	-8.66	QP	
5	1.1060	48.11	0.15	48.26	56.00	-7.74	QP	
6	1.8620	36.41	0.12	36.53	46.00	-9.47	AVG	
7	1.9818	45.47	0.12	45.59	56.00	-10.41	QP	
8	6.5979	38.29	0.11	38.40	50.00	-11.60	AVG	
9	7.2019	50.07	0.11	50.18	60.00	-9.82	QP	
10	9.3018	38.50	0.12	38.62	50.00	-11.38	AVG	
11	11.4657	38.82	0.13	38.95	50.00	-11.05	AVG	
12	12.3817	49.33	0.14	49.47	60.00	-10.53	QP	

Conducted Emission Test Data

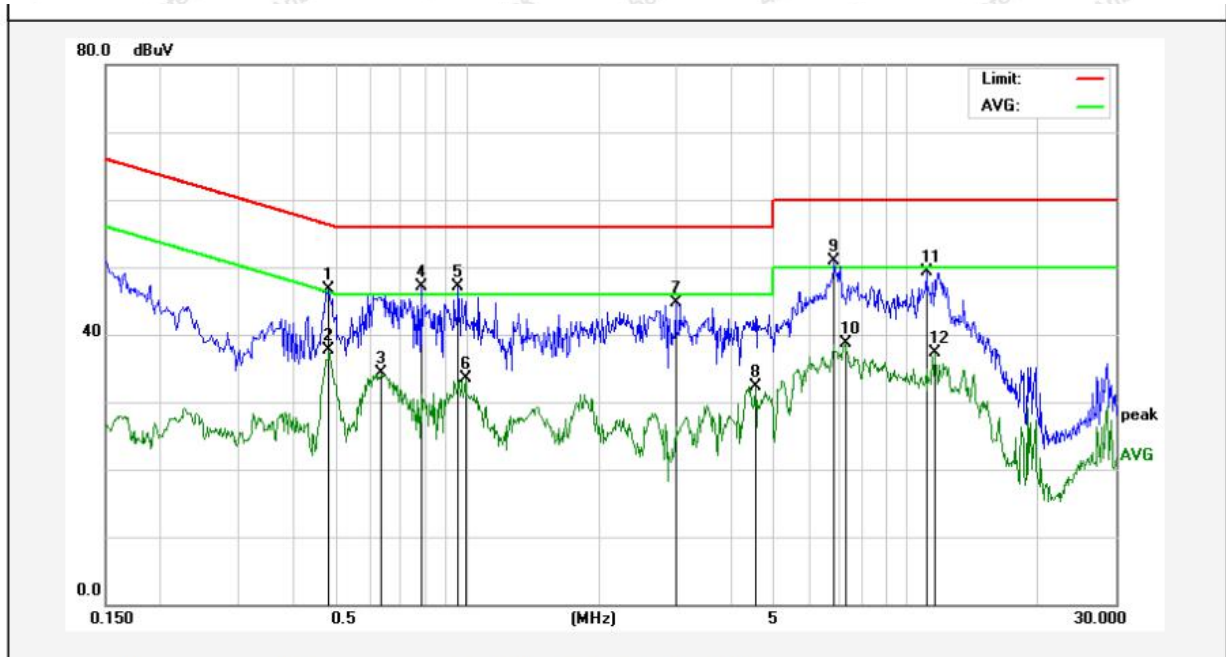
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5260MHz for ANT1+ANT2
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Over Limit (dB)	Detector	Remark
1	0.4660	35.55	0.14	35.69	46.58	-10.89	AVG	
2	0.4661	47.23	0.14	47.37	56.58	-9.21	QP	
3	0.9220	46.39	0.15	46.54	56.00	-9.46	QP	
4	0.9220	33.74	0.15	33.89	46.00	-12.11	AVG	
5	1.2257	44.01	0.14	44.15	56.00	-11.85	QP	
6	1.8891	44.43	0.12	44.55	56.00	-11.45	QP	
7	6.5739	40.47	0.11	40.58	50.00	-9.42	AVG	
8	7.2298	47.17	0.11	47.28	60.00	-12.72	QP	
9	7.6177	39.13	0.12	39.25	50.00	-10.75	AVG	
10	8.8258	37.36	0.12	37.48	50.00	-12.52	AVG	
11	12.5059	51.18	0.15	51.33	60.00	-8.67	QP	
12	12.7979	43.12	0.15	43.27	50.00	-6.73	AVG	

Conducted Emission Test Data

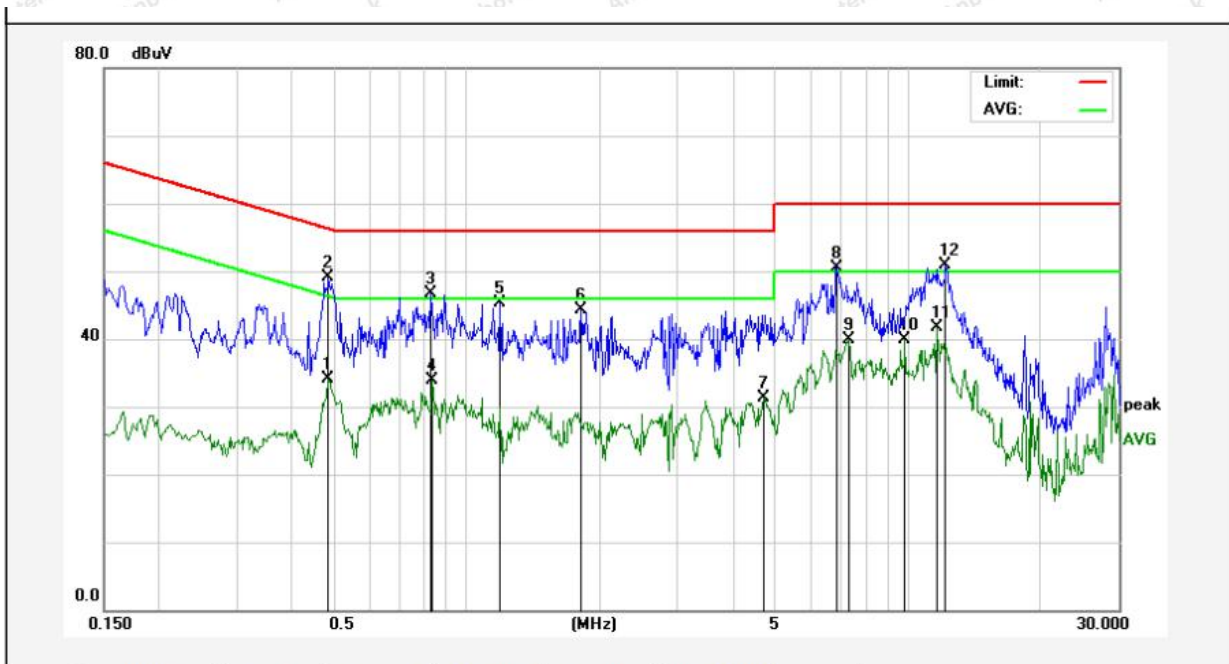
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5260MHz for ANT1+ANT2
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4858	46.48	0.14	46.62	56.24	-9.62	QP	
2	0.4858	37.54	0.14	37.68	46.24	-8.56	AVG	
3	0.6380	34.10	0.15	34.25	46.00	-11.75	AVG	
4	0.7860	46.89	0.15	47.04	56.00	-8.96	QP	
5	0.9536	46.94	0.15	47.09	56.00	-8.91	QP	
6	0.9939	33.28	0.15	33.43	46.00	-12.57	AVG	
7	2.9820	44.52	0.12	44.64	56.00	-11.36	QP	
8	4.5339	32.28	0.11	32.39	46.00	-13.61	AVG	
9	6.8699	50.86	0.11	50.97	60.00	-9.03	QP	
10	7.2618	38.52	0.11	38.63	50.00	-11.37	AVG	
11	11.1379	49.16	0.13	49.29	60.00	-10.71	QP	
12	11.5859	37.23	0.14	37.37	50.00	-12.63	AVG	

Conducted Emission Test Data

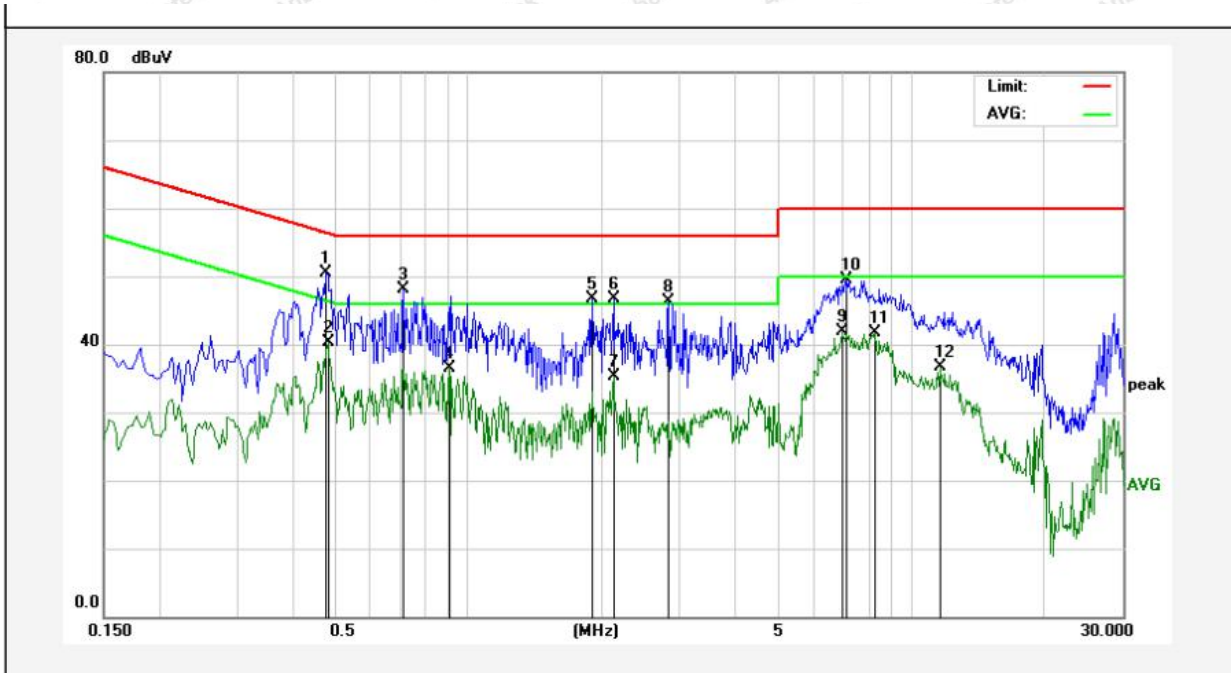
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5260MHz for ANT1+ANT2
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4818	33.98	0.14	34.12	46.31	-12.19	AVG	
2	0.4858	48.94	0.14	49.08	56.24	-7.16	QP	
3	0.8296	46.58	0.15	46.73	56.00	-9.27	QP	
4	0.8336	33.82	0.15	33.97	46.00	-12.03	AVG	
5	1.1854	45.11	0.14	45.25	56.00	-10.75	QP	
6	1.8100	44.12	0.13	44.25	56.00	-11.75	QP	
7	4.7179	31.25	0.11	31.36	46.00	-14.64	AVG	
8	6.8818	50.42	0.11	50.53	60.00	-9.47	QP	
9	7.3498	39.81	0.11	39.92	50.00	-10.08	AVG	
10	9.8376	39.79	0.12	39.91	50.00	-10.09	AVG	
11	11.5859	41.59	0.14	41.73	50.00	-8.27	AVG	
12	12.1416	50.67	0.14	50.81	60.00	-9.19	QP	

Conducted Emission Test Data

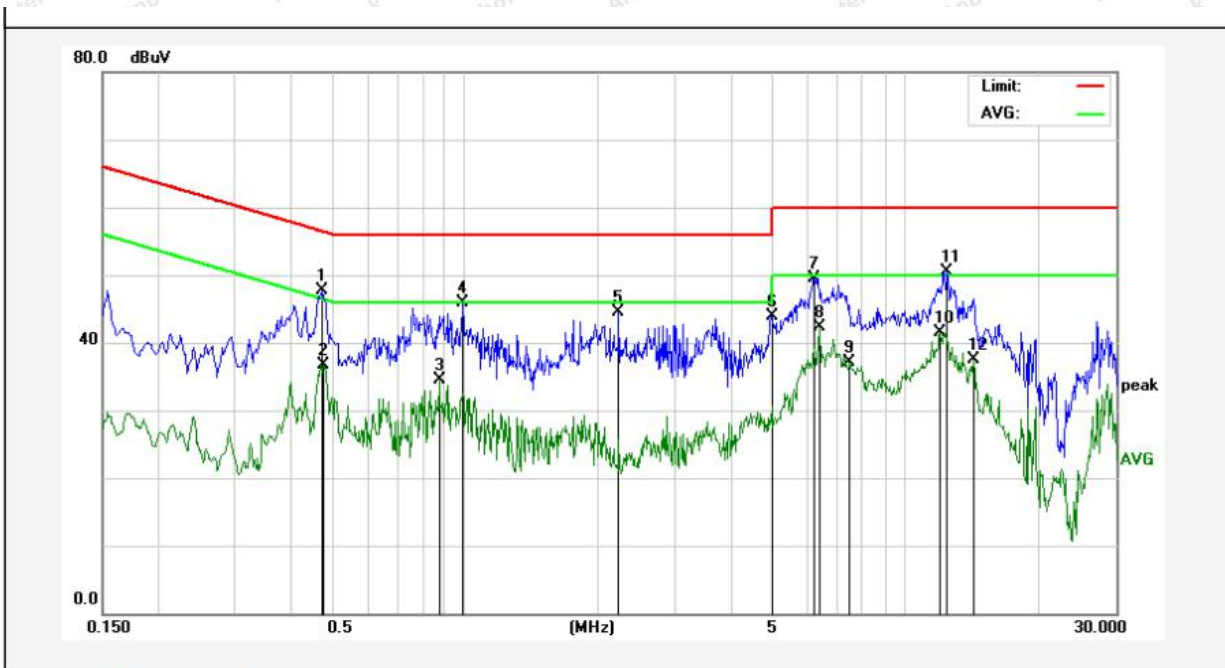
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5500MHz for ANT1+ANT2
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4778	50.33	0.14	50.47	56.38	-5.91	QP	
2	0.4818	40.11	0.14	40.25	46.31	-6.06	AVG	
3	0.7137	48.04	0.15	48.19	56.00	-7.81	QP	
4	0.9060	36.45	0.15	36.60	46.00	-9.40	AVG	
5	1.9054	46.58	0.12	46.70	56.00	-9.30	QP	
6	2.1259	46.55	0.12	46.67	56.00	-9.33	QP	
7	2.1259	35.15	0.12	35.27	46.00	-10.73	AVG	
8	2.8380	46.11	0.12	46.23	56.00	-9.77	QP	
9	6.9618	41.72	0.11	41.83	50.00	-8.17	AVG	
10	7.1539	49.48	0.11	49.59	60.00	-10.41	QP	
11	8.2979	41.52	0.12	41.64	50.00	-8.36	AVG	
12	11.5859	36.48	0.14	36.62	50.00	-13.38	AVG	

Conducted Emission Test Data

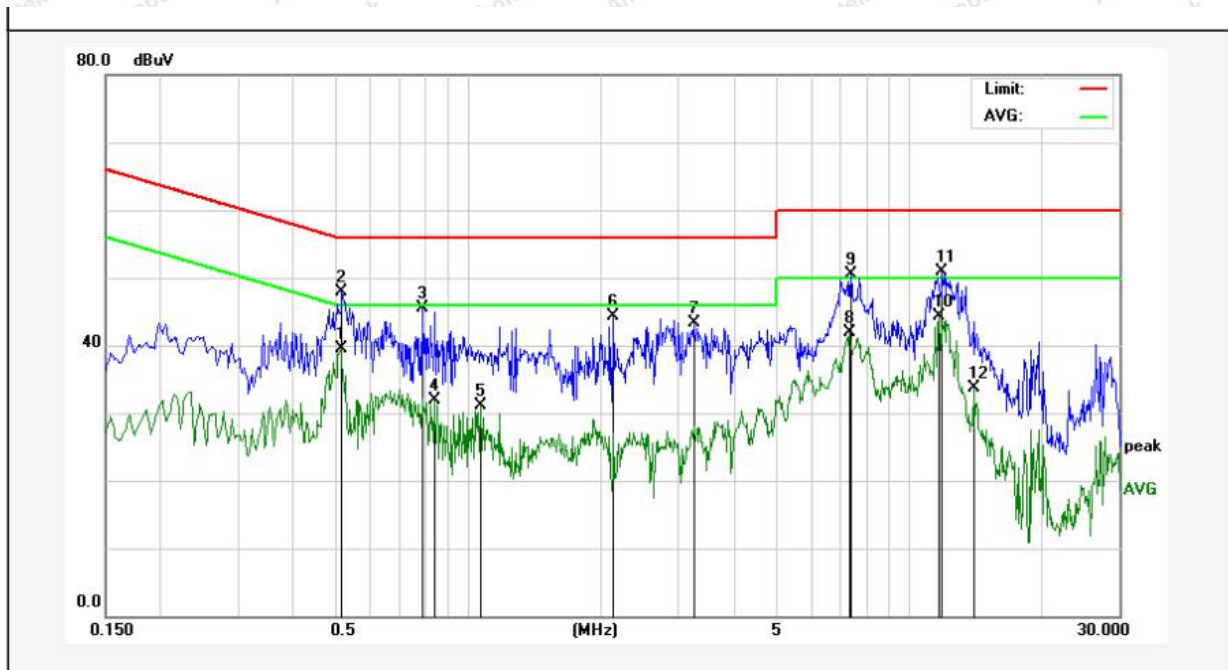
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5500MHz for ANT1+ANT2
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4737	47.51	0.14	47.65	56.45	-8.80	QP	
2	0.4778	36.55	0.14	36.69	46.38	-9.69	AVG	
3	0.8739	34.27	0.15	34.42	46.00	-11.58	AVG	
4	0.9858	45.66	0.15	45.81	56.00	-10.19	QP	
5	2.2259	44.34	0.12	44.46	56.00	-11.54	QP	
6	4.9739	43.73	0.11	43.84	56.00	-12.16	QP	
7	6.2019	49.41	0.11	49.52	60.00	-10.48	QP	
8	6.3578	42.27	0.11	42.38	50.00	-7.62	AVG	
9	7.4739	36.97	0.11	37.08	50.00	-12.92	AVG	
10	11.9657	41.44	0.14	41.58	50.00	-8.42	AVG	
11	12.4379	50.36	0.14	50.50	60.00	-9.50	QP	
12	14.2139	37.39	0.16	37.55	50.00	-12.45	AVG	

Conducted Emission Test Data

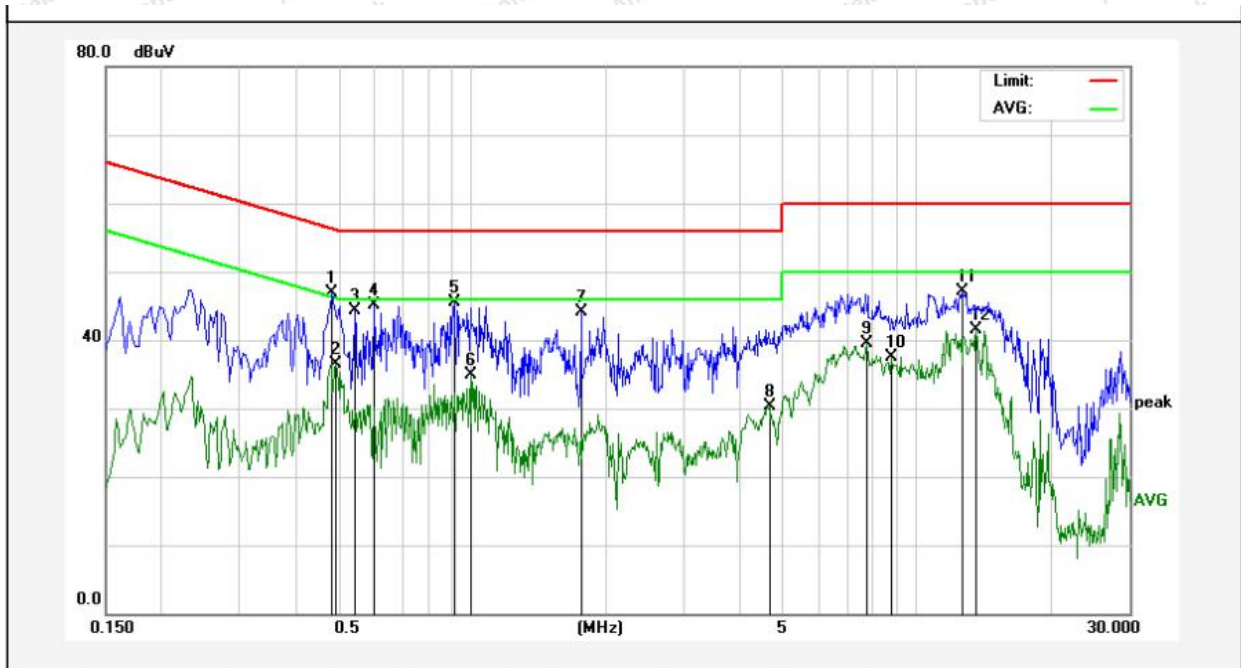
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5500MHz for ANT1+ANT2
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.5140	39.44	0.15	39.59	46.00	-6.41	AVG	
2	0.5180	47.80	0.15	47.95	56.00	-8.05	QP	
3	0.7860	45.42	0.15	45.57	56.00	-10.43	QP	
4	0.8377	31.70	0.15	31.85	46.00	-14.15	AVG	
5	1.0660	30.99	0.15	31.14	46.00	-14.86	AVG	
6	2.1419	44.17	0.12	44.29	56.00	-11.71	QP	
7	3.2418	43.26	0.12	43.38	56.00	-12.62	QP	
8	7.3299	41.77	0.11	41.88	50.00	-8.12	AVG	
9	7.3818	50.38	0.11	50.49	60.00	-9.51	QP	
10	11.7096	44.15	0.14	44.29	50.00	-5.71	AVG	
11	11.8899	50.76	0.14	50.90	60.00	-9.10	QP	
12	14.0297	33.46	0.16	33.62	50.00	-16.38	AVG	

Conducted Emission Test Data

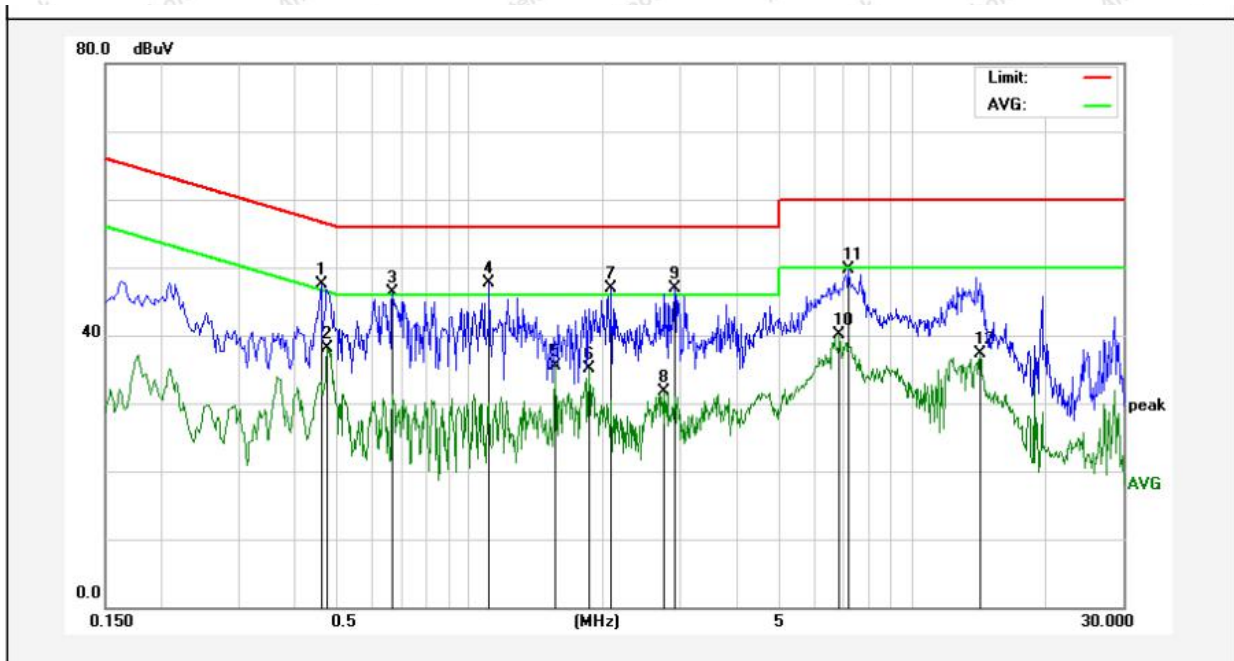
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5500MHz for ANT1+ANT2
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4858	46.85	0.14	46.99	56.24	-9.25	QP	
2	0.4939	36.37	0.15	36.52	46.10	-9.58	AVG	
3	0.5460	44.16	0.15	44.31	56.00	-11.69	QP	
4	0.6018	45.01	0.15	45.16	56.00	-10.84	QP	
5	0.9100	45.37	0.15	45.52	56.00	-10.48	QP	
6	0.9899	34.78	0.15	34.93	46.00	-11.07	AVG	
7	1.7540	43.97	0.13	44.10	56.00	-11.90	QP	
8	4.6657	30.28	0.11	30.39	46.00	-15.61	AVG	
9	7.7019	39.33	0.12	39.45	50.00	-10.55	AVG	
10	8.7459	37.46	0.12	37.58	50.00	-12.42	AVG	
11	12.6219	46.96	0.15	47.11	60.00	-12.89	QP	
12	13.6019	41.39	0.16	41.55	50.00	-8.45	AVG	

Conducted Emission Test Data

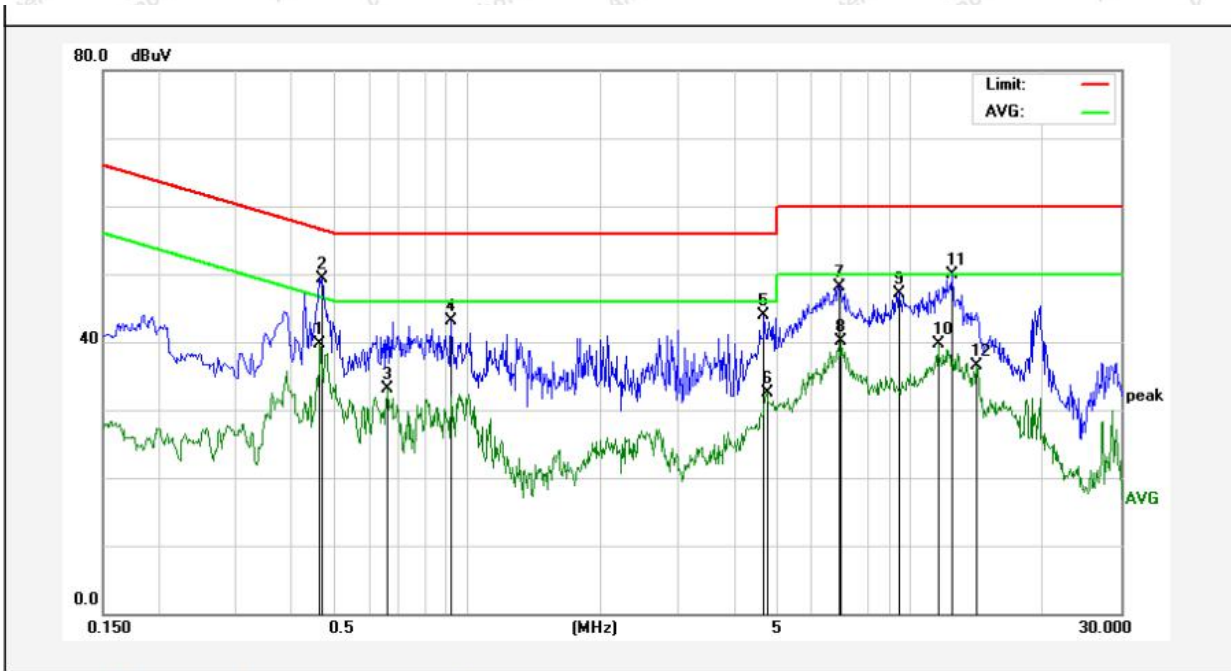
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5745MHz for ANT1+ANT2
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4620	47.30	0.13	47.43	56.66	-9.23	QP	
2	0.4778	38.02	0.14	38.16	46.38	-8.22	AVG	
3	0.6700	46.24	0.15	46.39	56.00	-9.61	QP	
4	1.1060	47.61	0.15	47.76	56.00	-8.24	QP	
5	1.5660	35.47	0.13	35.60	46.00	-10.40	AVG	
6	1.8620	34.91	0.12	35.03	46.00	-10.97	AVG	
7	2.0899	46.83	0.12	46.95	56.00	-9.05	QP	
8	2.7620	31.55	0.12	31.67	46.00	-14.33	AVG	
9	2.9140	46.86	0.12	46.98	56.00	-9.02	QP	
10	6.8619	40.04	0.11	40.15	50.00	-9.85	AVG	
11	7.2019	49.57	0.11	49.68	60.00	-10.32	QP	
12	14.2139	37.21	0.16	37.37	50.00	-12.63	AVG	

Conducted Emission Test Data

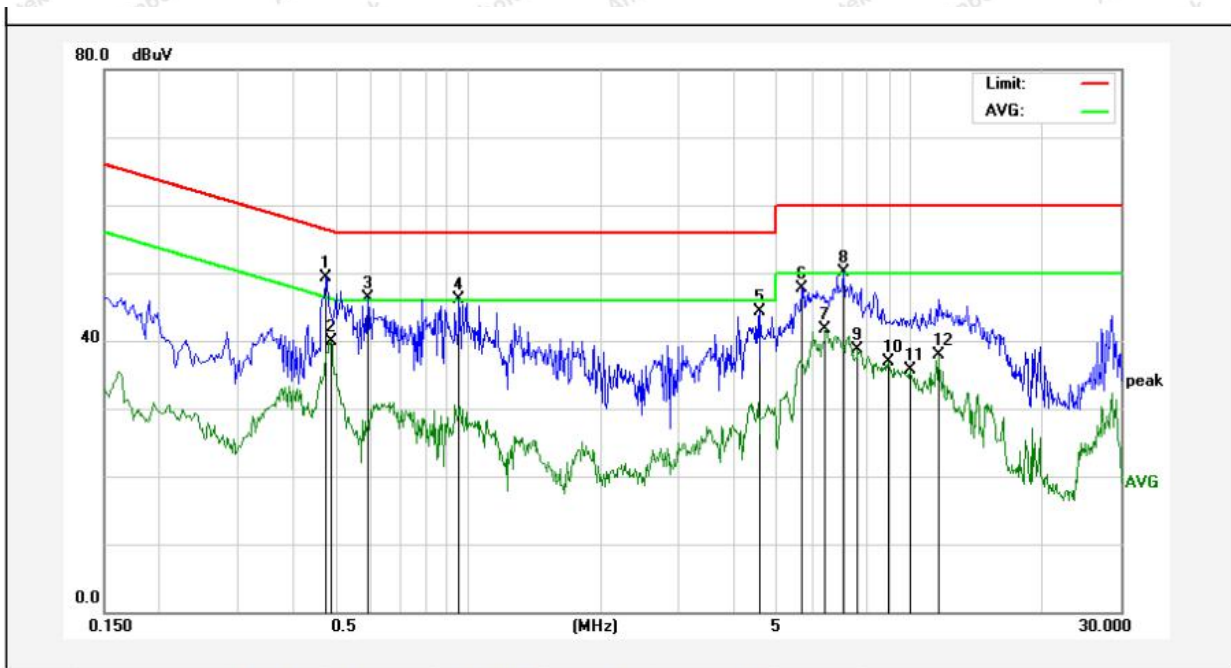
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5745MHz for ANT1+ANT2
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4660	39.55	0.14	39.69	46.58	-6.89	AVG	
2	0.4697	49.22	0.14	49.36	56.52	-7.16	QP	
3	0.6580	33.05	0.15	33.20	46.00	-12.80	AVG	
4	0.9220	42.89	0.15	43.04	56.00	-12.96	QP	
5	4.6736	43.76	0.11	43.87	56.00	-12.13	QP	
6	4.7698	32.38	0.11	32.49	46.00	-13.51	AVG	
7	6.9419	48.06	0.11	48.17	60.00	-11.83	QP	
8	7.0217	39.92	0.11	40.03	50.00	-9.97	AVG	
9	9.4817	47.08	0.12	47.20	60.00	-12.80	QP	
10	11.5859	39.50	0.14	39.64	50.00	-10.36	AVG	
11	12.5059	49.68	0.15	49.83	60.00	-10.17	QP	
12	14.1577	36.31	0.16	36.47	50.00	-13.53	AVG	

Conducted Emission Test Data

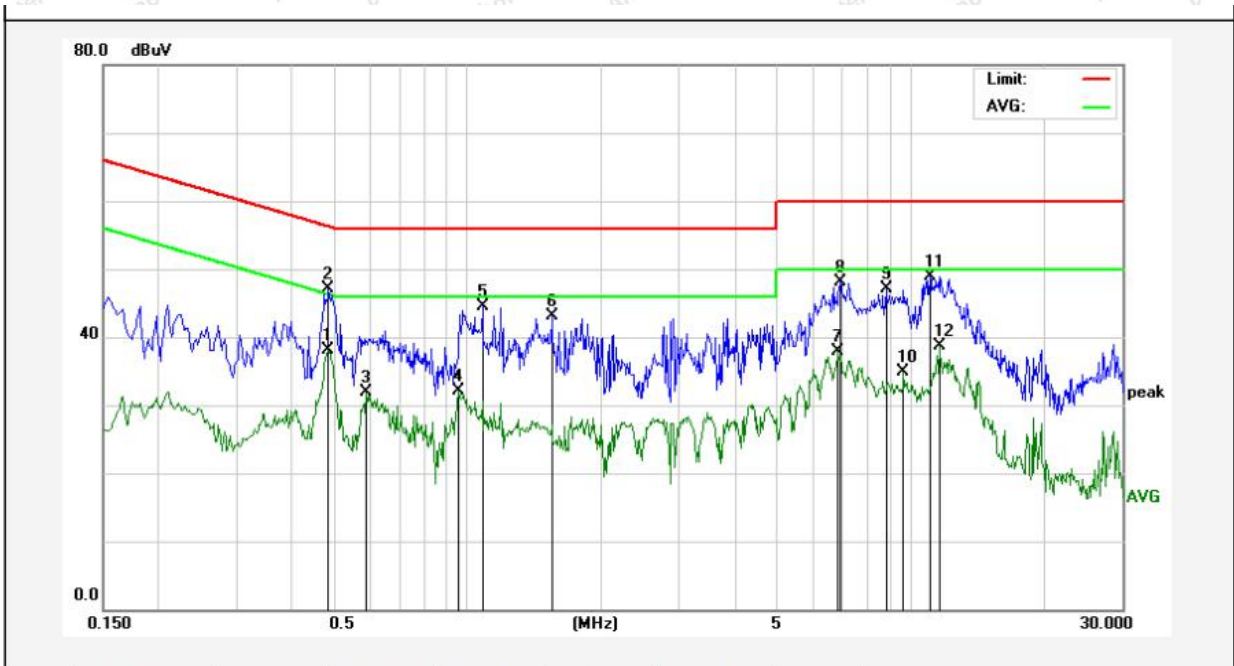
Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5745MHz for ANT1+ANT2
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4778	49.14	0.14	49.28	56.38	-7.10	QP	
2	0.4899	39.82	0.15	39.97	46.17	-6.20	AVG	
3	0.5936	46.06	0.15	46.21	56.00	-9.79	QP	
4	0.9536	45.94	0.15	46.09	56.00	-9.91	QP	
5	4.5819	44.10	0.11	44.21	56.00	-11.79	QP	
6	5.6859	47.69	0.11	47.80	60.00	-12.20	QP	
7	6.4818	41.54	0.11	41.65	50.00	-8.35	AVG	
8	7.0979	50.04	0.11	50.15	60.00	-9.85	QP	
9	7.6417	38.53	0.12	38.65	50.00	-11.35	AVG	
10	8.9219	36.76	0.12	36.88	50.00	-13.12	AVG	
11	9.9977	35.59	0.12	35.71	50.00	-14.29	AVG	
12	11.5859	37.73	0.14	37.87	50.00	-12.13	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Test Model: T18-21A
 Operating Condition: 802.11ac (VHT20) 5745MHz for ANT1+ANT2
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.7°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4818	37.98	0.14	38.12	46.31	-8.19	AVG	
2	0.4858	46.94	0.14	47.08	56.24	-9.16	QP	
3	0.5897	31.82	0.15	31.97	46.00	-14.03	AVG	
4	0.9495	31.97	0.15	32.12	46.00	-13.88	AVG	
5	1.0820	44.44	0.15	44.59	56.00	-11.41	QP	
6	1.5500	43.03	0.13	43.16	56.00	-12.84	QP	
7	6.8539	37.79	0.11	37.90	50.00	-12.10	AVG	
8	6.9339	48.07	0.11	48.18	60.00	-11.82	QP	
9	8.7939	46.96	0.12	47.08	60.00	-12.92	QP	
10	9.6135	34.77	0.12	34.89	50.00	-15.11	AVG	
11	11.0777	48.80	0.13	48.93	60.00	-11.07	QP	
12	11.5859	38.59	0.14	38.73	50.00	-11.27	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Radiated Spurious Emission					
Test Standard	FCC Part15 C Section 15.209, 15.205 and 15.407				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	68.2	Peak	3
Band Edge					
Test Standard	15.407(b)				
Test Limit	Operating Band	Frequency	EIRP Limit		Remark
	5150-5250MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
	5250-5350MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
	5470-5725MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
	5725-5850 MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
		1GHz-5.65GHz	-27*dBm/MHz to 10dBm/MHz (68.2* dBuV/m to 105.6dBuV/m)		Peak
		5.65GHz-5.7GHz	10*dBm/MHz to 15.6dBm/MHz (105.6*dBuV/m to 110.8dBuV/m)		Peak
		5.7GHz-5.72GHz	15.6*dBm/MHz to 27dBm/MHz (110.8dBuV/m to* 122.2dBuV/m)		Peak
		5.72GHz-5.725GHz	27dBm/MHz to 15.6*dBm/MHz (122.2dBuV/m to110.8* dBuV/m)		Peak
		5.85GHz-5.855GHz	15.6dBm/MHz to 10*dBm/MHz (110.8dBuV/m to 105.6* dBuV/m)		Peak

	5.855GHz-5.875GHz	10dBm/MHz to -27*dBm/MHz (105.6dBuV/m to 68.2* dBuV/m)	Peak
	5.875GHz-5.925GHz	-27 dBm/MHz(68.2dBuV/m)@3m	Peak

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

(3)Above 1GHz limit: $E[dBuV/m] = EIRP[dBm] + 95.2=68.2 \text{ dBuV/m}$, for $EIPR[dBm]=-27\text{dBm}$.

4.2. Test Setup

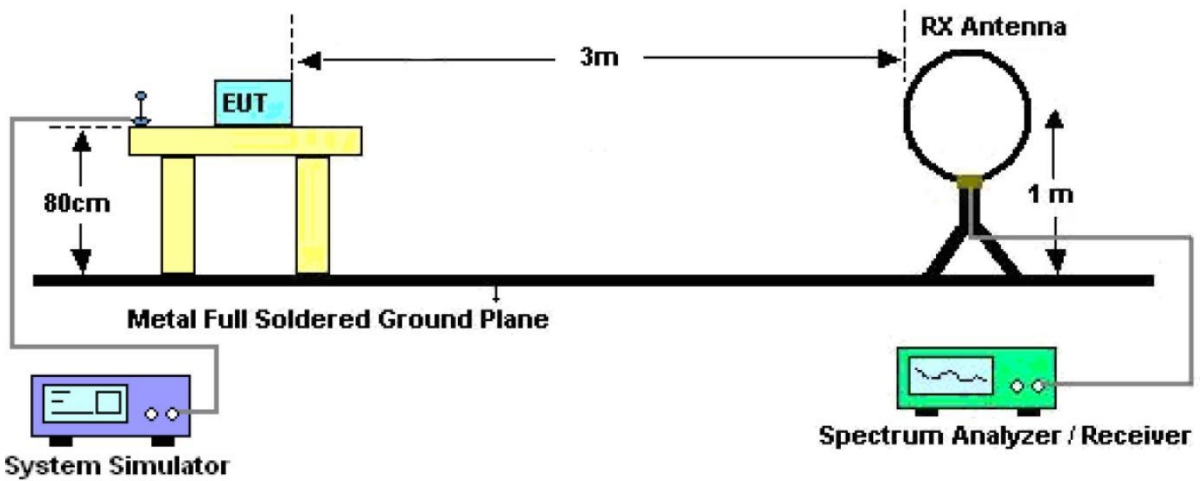


Figure 1. Below 30MHz

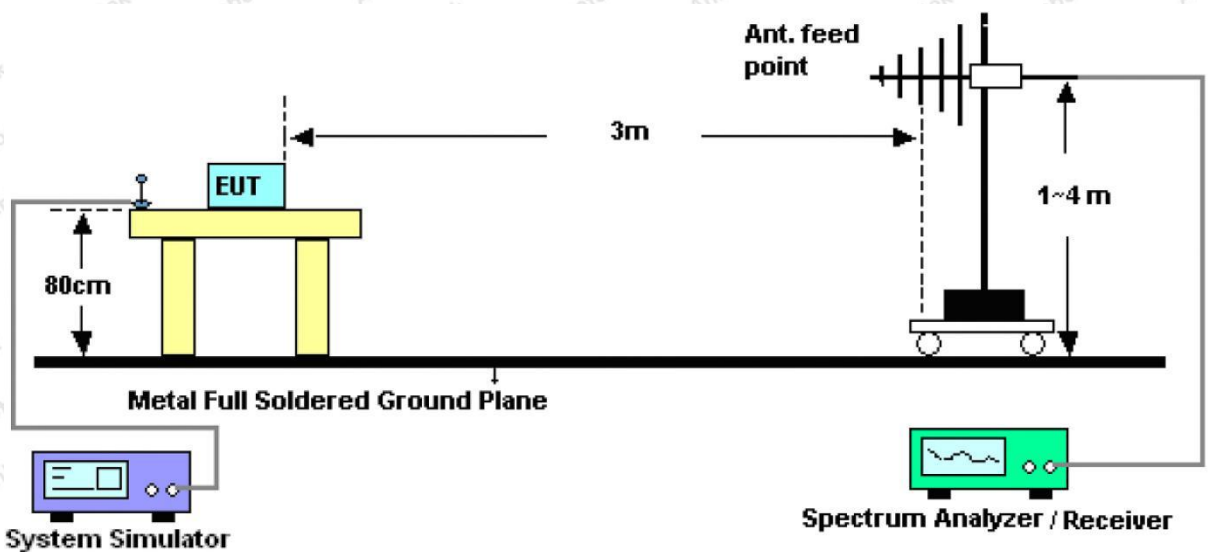


Figure 2. 30MHz to 1GHz

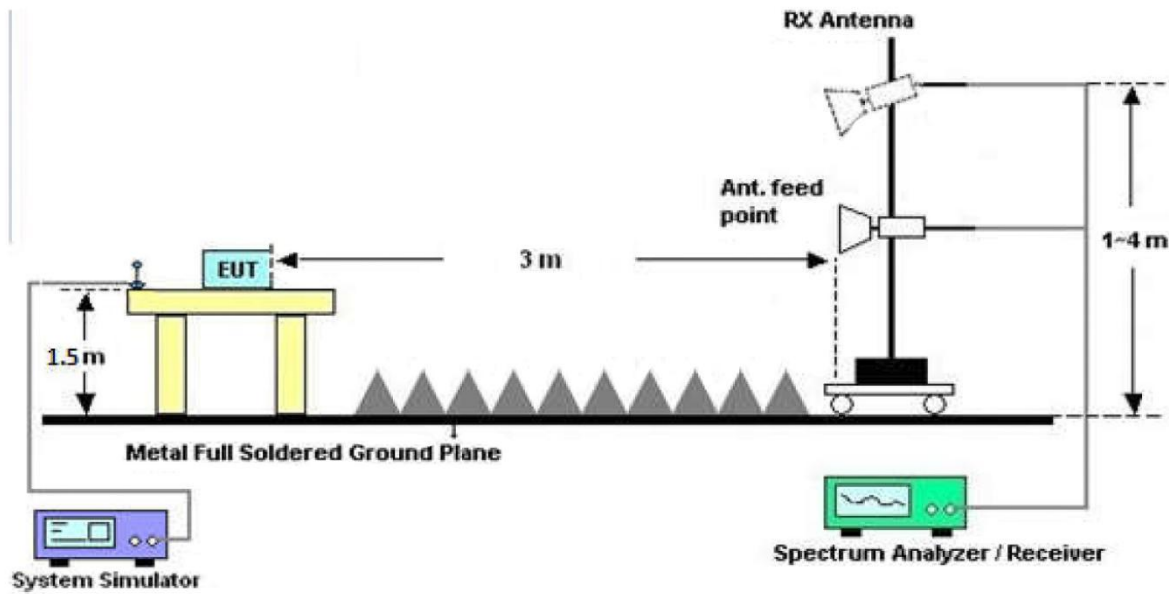


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

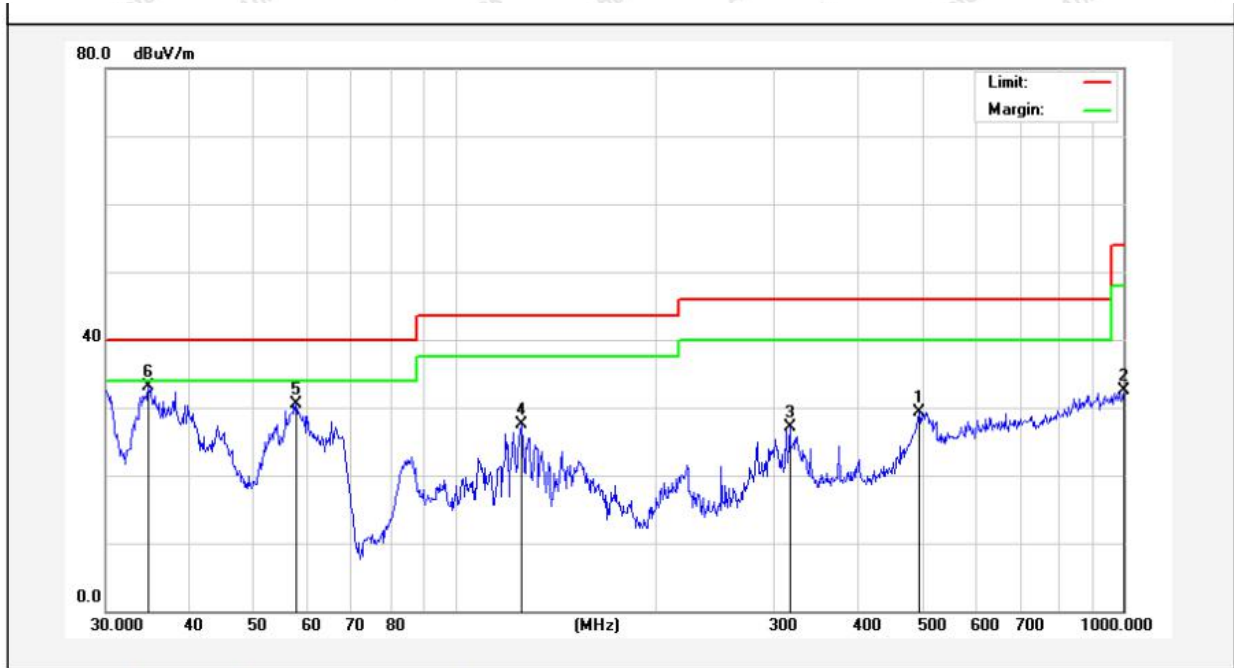
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes and all the Antenna Gain(5dBi and 4dBi), only the worst case is recorded in the report.



Test Results (30~1000MHz)

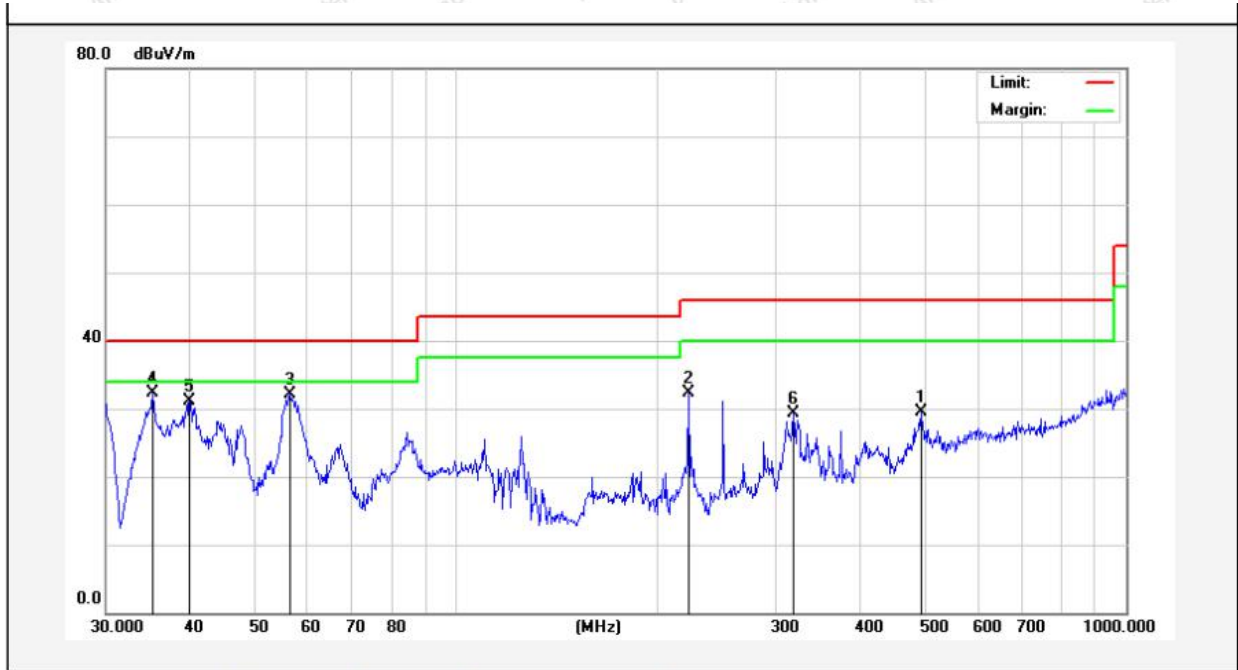
Test Model: T18-21A
 Test Mode: 802.11ac (VHT20) 5200MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	494.1983	38.11	-8.73	29.38	46.00	-16.62	QP			
2	1000.0000	32.13	0.32	32.45	54.00	-21.55	QP			
3	316.5889	40.12	-12.93	27.19	46.00	-18.81	QP			
4	125.8863	46.34	-18.79	27.55	43.50	-15.95	QP			
5	57.7961	46.86	-16.35	30.51	40.00	-9.49	QP			
6	34.7601	49.34	-16.32	33.02	40.00	-6.98	QP			

Test Results (30~1000MHz)

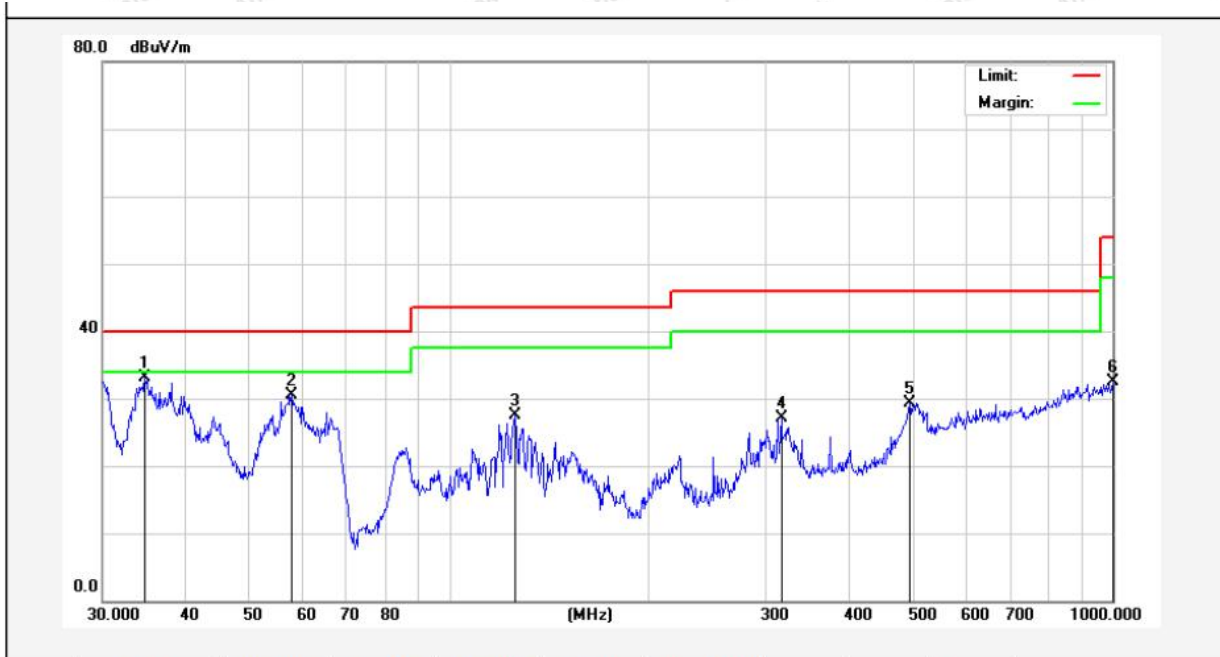
Test Model: T18-21A
 Test Mode: 802.11ac (VHT20) 5200MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	494.1983	39.86	-10.30	29.56	46.00	-16.44	QP			
2	222.1698	51.79	-19.41	32.38	46.00	-13.62	QP			
3	56.3947	48.54	-16.44	32.10	40.00	-7.90	QP			
4	35.2511	49.67	-17.45	32.22	40.00	-7.78	QP			
5	39.9941	46.23	-15.05	31.18	40.00	-8.82	QP			
6	318.8170	43.16	-13.80	29.36	46.00	-16.64	QP			

Test Results (30~1000MHz)

Test Model: T18-21A
 Test Mode: 802.11ac (VHT20) 5260MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.7601	49.34	-16.32	33.02	40.00	-6.98	QP			
2	57.7961	46.86	-16.35	30.51	40.00	-9.49	QP			
3	125.8863	46.34	-18.79	27.55	43.50	-15.95	QP			
4	316.5889	40.12	-12.93	27.19	46.00	-18.81	QP			
5	494.1983	38.11	-8.73	29.38	46.00	-16.62	QP			
6	1000.0000	32.13	0.32	32.45	54.00	-21.55	QP			

Test Results (30~1000MHz)

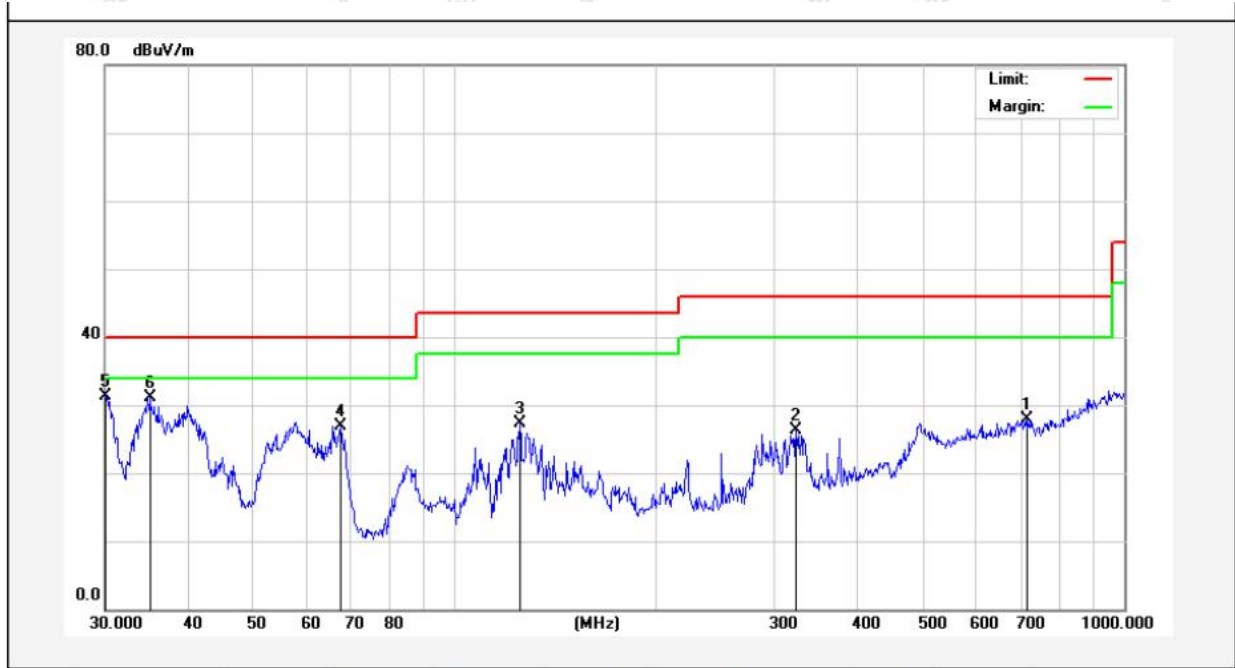
Test Model: T18-21A
 Test Mode: 802.11ac (VHT20) 5260MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.2511	49.67	-17.45	32.22	40.00	-7.78	QP			
2	39.9941	46.23	-15.05	31.18	40.00	-8.82	QP			
3	56.3947	48.54	-16.44	32.10	40.00	-7.90	QP			
4	222.1698	51.79	-19.41	32.38	46.00	-13.62	QP			
5	318.8170	43.16	-13.80	29.36	46.00	-16.64	QP			
6	494.1983	39.86	-10.30	29.56	46.00	-16.44	QP			

Test Results (30~1000MHz)

Test Model: T18-21A
 Test Mode: 802.11ac (VHT20) 5500MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	716.6820	33.61	-5.75	27.86	46.00	-18.14	QP			
2	323.3204	38.97	-12.74	26.23	46.00	-19.77	QP			
3	125.0066	46.02	-18.66	27.36	43.50	-16.14	QP			
4	67.4381	45.19	-18.25	26.94	40.00	-13.06	QP			
5	30.0000	48.59	-17.20	31.39	40.00	-8.61	QP			
6	35.0048	47.38	-16.27	31.11	40.00	-8.89	QP			

Test Results (30~1000MHz)

Test Model: T18-21A
 Test Mode: 802.11ac (VHT20) 5500MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	993.0113	31.77	0.15	31.92	54.00	-22.08	QP			
2	325.5957	43.33	-13.63	29.70	46.00	-16.30	QP			
3	222.1698	50.13	-19.41	30.72	46.00	-15.28	QP			
4	56.3947	47.94	-16.44	31.50	40.00	-8.50	QP			
5	40.4172	48.42	-14.98	33.44	40.00	-6.56	QP			
6	34.8823	49.40	-17.63	31.77	40.00	-8.23	QP			

Test Results (30~1000MHz)

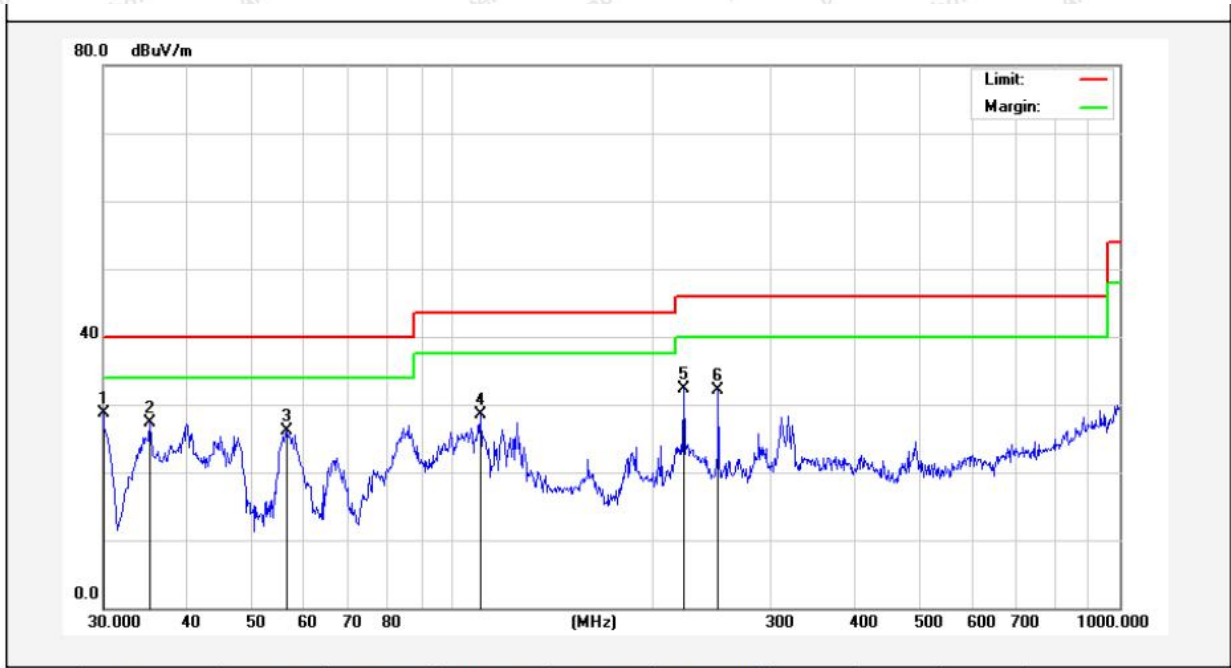
Test Model: T18-21A
 Test Mode: 802.11ac (VHT20) 5745MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.7601	43.84	-16.32	27.52	40.00	-12.48	QP			
2	57.7961	47.36	-16.35	31.01	40.00	-8.99	QP			
3	66.0340	47.77	-18.10	29.67	40.00	-10.33	QP			
4	125.8863	47.84	-18.79	29.05	43.50	-14.45	QP			
5	494.1983	37.61	-8.73	28.88	46.00	-17.12	QP			
6	938.8324	30.15	-1.03	29.12	46.00	-16.88	QP			

Test Results (30~1000MHz)

Test Model: T18-21A
 Test Mode: 802.11ac (VHT20) 5745MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	48.25	-19.50	28.75	40.00	-11.25	QP			
2	35.2511	44.67	-17.45	27.22	40.00	-12.78	QP			
3	56.3947	42.55	-16.44	26.11	40.00	-13.89	QP			
4	110.1816	49.71	-21.25	28.46	43.50	-15.04	QP			
5	222.1698	51.79	-19.41	32.38	46.00	-13.62	QP			
6	250.3009	51.01	-18.81	32.20	46.00	-13.80	QP			

Test Results (30~1000MHz)

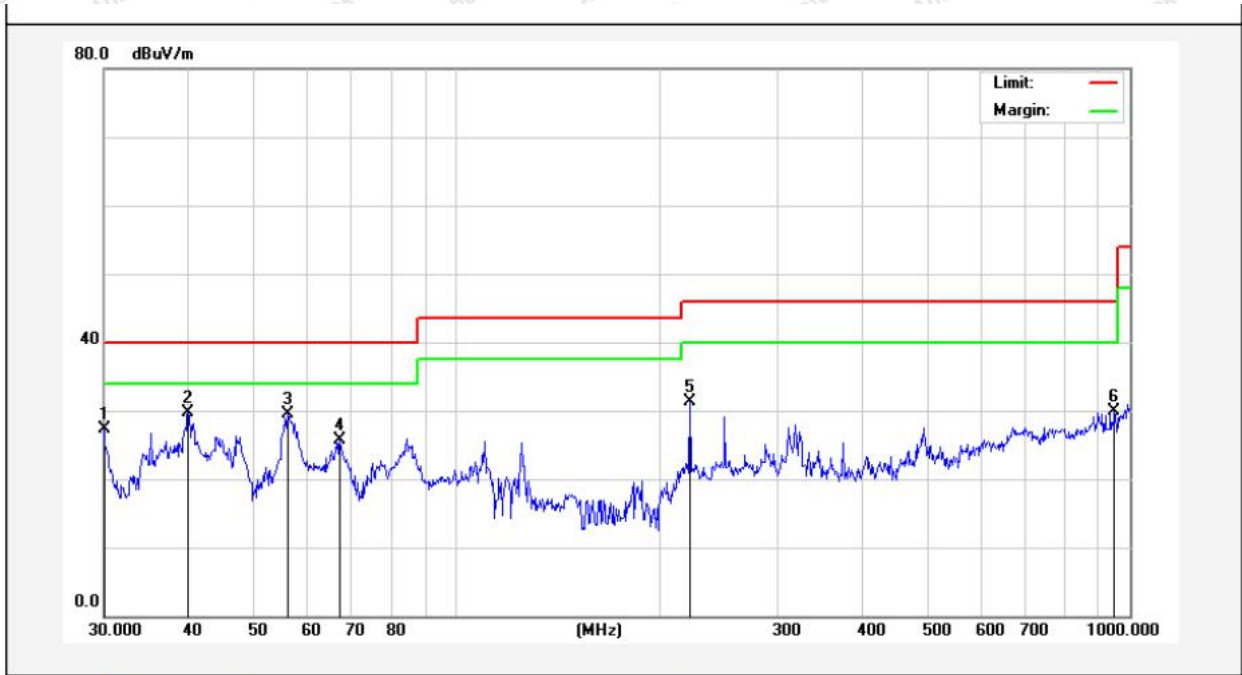
Test Model: T18-PQA
 Test Mode: 802.11ac (VHT20) 5200MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.0048	48.50	-16.27	32.23	40.00	-7.77	QP			
2	38.0782	44.98	-14.62	30.36	40.00	-9.64	QP			
3	57.7961	46.86	-16.35	30.51	40.00	-9.49	QP			
4	121.9753	45.78	-18.21	27.57	43.50	-15.93	QP			
5	494.1983	39.11	-8.73	30.38	46.00	-15.62	QP			
6	916.0687	32.54	-1.43	31.11	46.00	-14.89	QP			

Test Results (30~1000MHz)

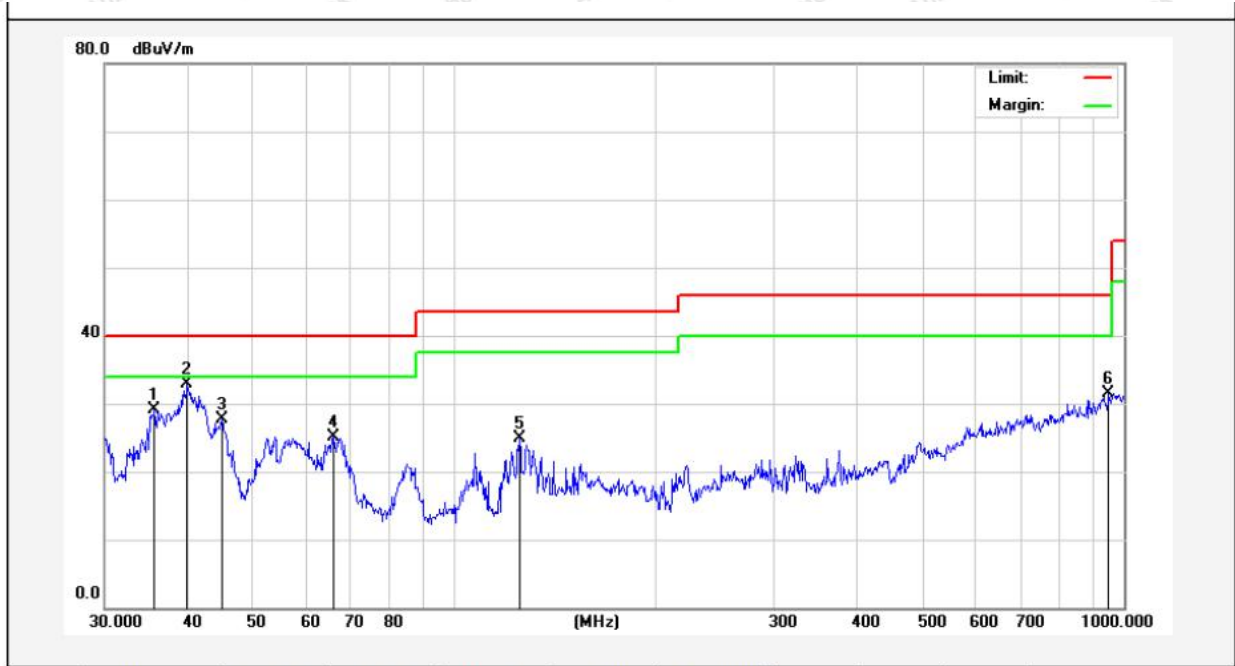
Test Model: T18-PQA
 Test Mode: 802.11ac (VHT20) 5200MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	46.75	-19.50	27.25	40.00	-12.75	QP			
2	39.9941	44.73	-15.05	29.68	40.00	-10.32	QP			
3	56.1974	45.90	-16.46	29.44	40.00	-10.56	QP			
4	67.2022	44.90	-19.24	25.66	40.00	-14.34	QP			
5	222.1698	50.79	-19.41	31.38	46.00	-14.62	QP			
6	948.7608	30.80	-0.85	29.95	46.00	-16.05	QP			

Test Results (30~1000MHz)

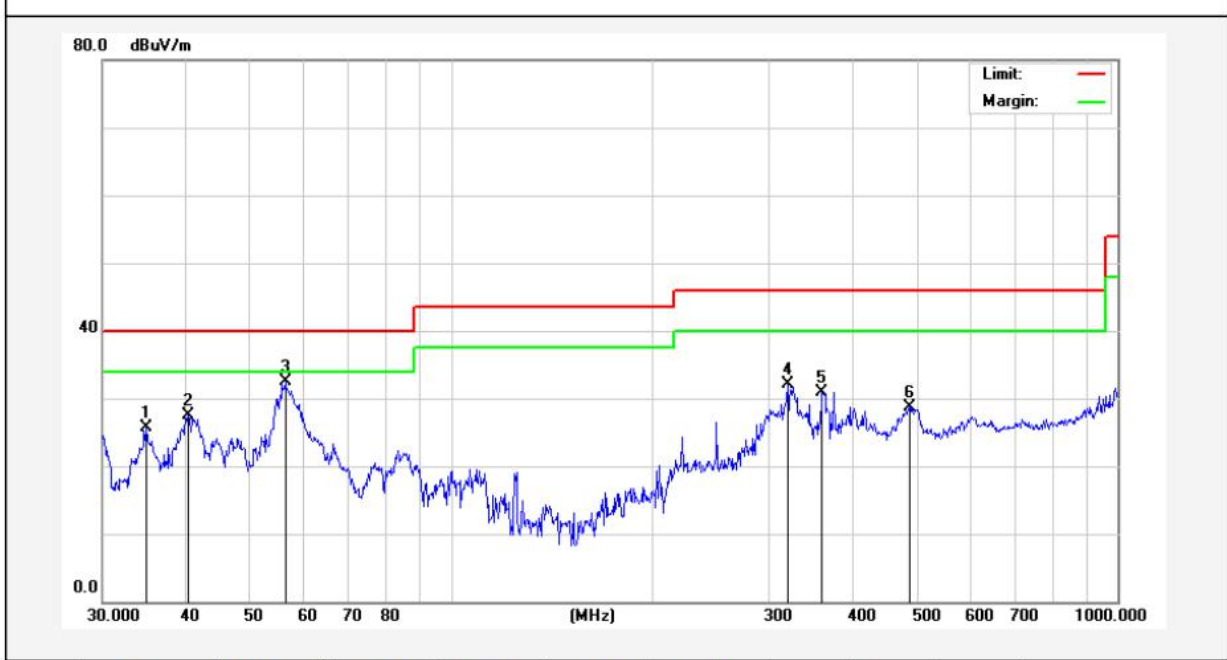
Test Model: T18-PQA
 Test Mode: 802.11n (VHT20) 5260MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.6240	45.12	-15.94	29.18	40.00	-10.82	QP			
2	39.8541	46.63	-13.65	32.98	40.00	-7.02	QP			
3	44.9004	41.83	-14.09	27.74	40.00	-12.26	QP			
4	66.0340	43.17	-18.10	25.07	40.00	-14.93	QP			
5	125.0066	43.52	-18.66	24.86	43.50	-18.64	QP			
6	948.7608	32.40	-0.85	31.55	46.00	-14.45	QP			

Test Results (30~1000MHz)

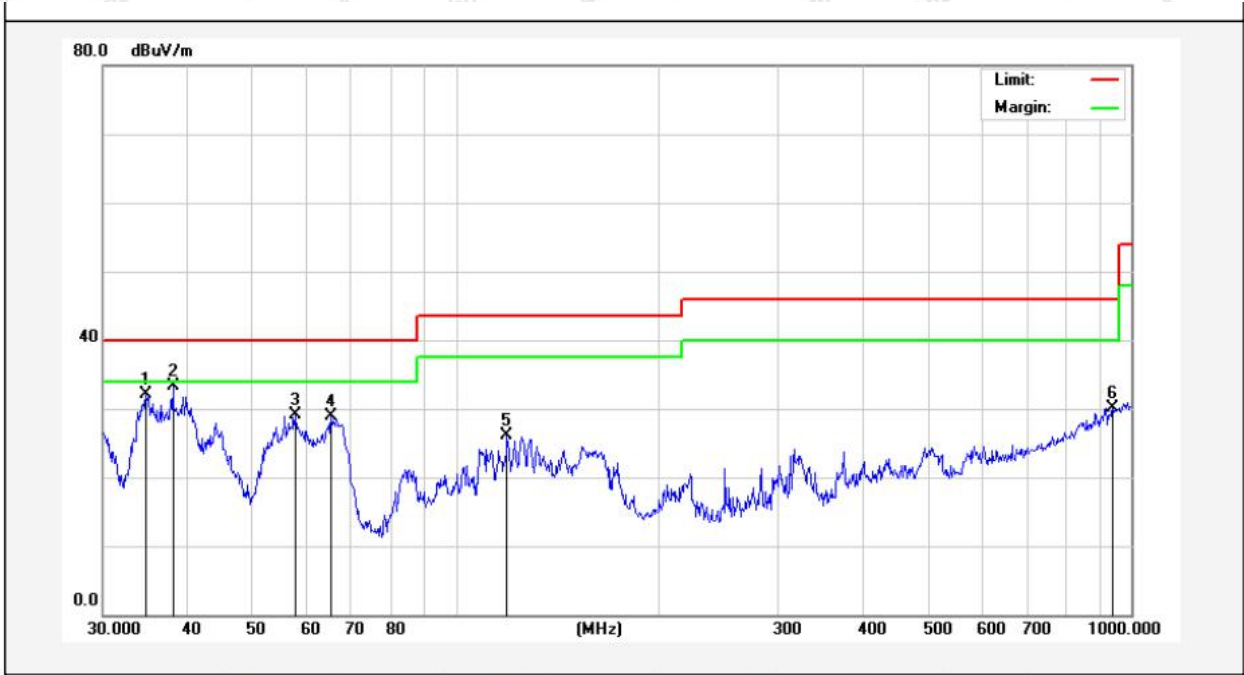
Test Model: T18-PQA
 Test Mode: 802.11n (VHT20) 5260MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.8823	43.40	-17.63	25.77	40.00	-14.23	QP			
2	40.4172	42.42	-14.98	27.44	40.00	-12.56	QP			
3	56.3947	48.94	-16.44	32.50	40.00	-7.50	QP			
4	319.9370	45.81	-13.78	32.03	46.00	-13.97	QP			
5	360.4476	43.83	-12.98	30.85	46.00	-15.15	QP			
6	487.3149	39.37	-10.58	28.79	46.00	-17.21	QP			

Test Results (30~1000MHz)

Test Model: T18-PQA
 Test Mode: 802.11n (VHT20) 5500MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.7601	48.34	-16.32	32.02	40.00	-7.98	QP			
2	38.0782	47.98	-14.62	33.36	40.00	-6.64	QP			
3	57.7961	45.36	-16.35	29.01	40.00	-10.99	QP			
4	65.3431	46.88	-18.01	28.87	40.00	-11.13	QP			
5	119.0180	43.94	-17.76	26.18	43.50	-17.32	QP			
6	938.8324	31.15	-1.03	30.12	46.00	-15.88	QP			

Test Results (30~1000MHz)

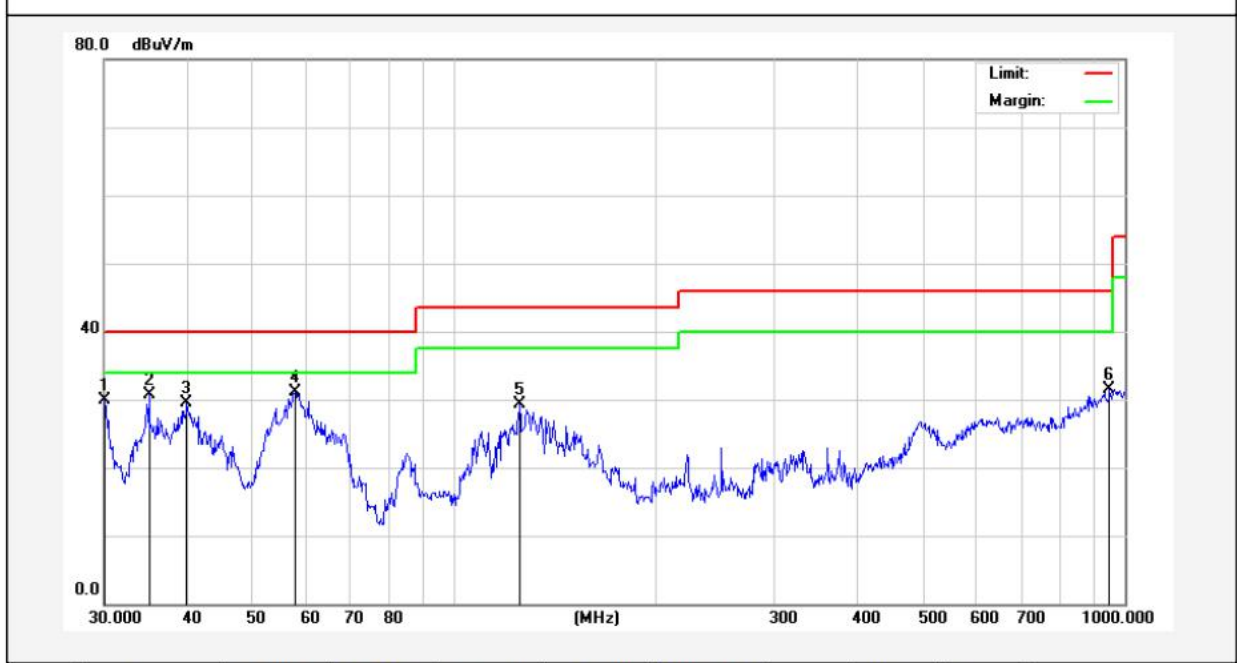
Test Model: T18-PQA
 Test Mode: 802.11n (VHT20) 5500MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.2511	46.67	-17.45	29.22	40.00	-10.78	QP			
2	39.9941	46.23	-15.05	31.18	40.00	-8.82	QP			
3	67.4381	47.83	-19.38	28.45	40.00	-11.55	QP			
4	222.1698	48.79	-19.41	29.38	46.00	-16.62	QP			
5	318.8170	43.66	-13.80	29.86	46.00	-16.14	QP			
6	935.5461	29.19	-1.09	28.10	46.00	-17.90	QP			

Test Results (30~1000MHz)

Test Model: T18-PQA
 Test Mode: 802.11n (VHT20) 5745MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	47.09	-17.20	29.89	40.00	-10.11	QP			
2	35.0048	46.89	-16.27	30.62	40.00	-9.38	QP			
3	39.8541	43.13	-13.65	29.48	40.00	-10.52	QP			
4	57.7961	47.39	-16.35	31.04	40.00	-8.96	QP			
5	125.0066	48.02	-18.66	29.36	43.50	-14.14	QP			
6	948.7608	32.40	-0.85	31.55	46.00	-14.45	QP			

Test Results (30~1000MHz)

Test Model: T18-PQA
 Test Mode: 802.11n (VHT20) 5745MHz for ANT1+ANT2
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.2°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	36.2541	43.74	-16.93	26.81	40.00	-13.19	QP			
2	39.9941	46.10	-15.05	31.05	40.00	-8.95	QP			
3	55.8046	43.52	-16.47	27.05	40.00	-12.95	QP			
4	222.1698	49.13	-19.41	29.72	46.00	-16.28	QP			
5	325.5957	47.83	-13.63	34.20	46.00	-11.80	QP			
6	938.8324	32.25	-1.03	31.22	46.00	-14.78	QP			

For Model T18-21A:

Test Results (Above 1000MHz)

WiFi 5.2G(ANT1+ANT2):

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Low CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	31.43	23.81	55.24	68.20	-12.96	V
15540.00	32.72	28.68	61.40	68.20	-6.80	V
10360.00	31.76	23.81	55.57	68.20	-12.63	H
15540.00	32.82	28.68	61.50	68.20	-6.70	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10360.00	20.772	23.81	44.58	54.00	-9.42	V
15540.00	21.816	28.68	50.50	54.00	-3.50	V
10360.00	20.949	23.81	44.76	54.00	-9.24	H
15540.00	21.528	28.68	50.21	54.00	-3.79	H

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Middle CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	30.79	23.81	54.60	68.20	-13.60	V
15600.00	32.25	29.13	61.38	68.20	-6.82	V
10400.00	31.25	23.81	55.06	68.20	-13.14	H
15600.00	32.34	29.13	61.47	68.20	-6.73	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10400.00	21.042	23.81	44.85	54.00	-9.15	V
15600.00	21.936	29.13	51.07	54.00	-2.93	V
10400.00	20.939	23.81	44.75	54.00	-9.25	H
15600.00	21.608	29.13	50.74	54.00	-3.26	H

Test Mode: 802.11ac (VHT20)				Test channel: High CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	30.36	23.80	54.16	68.20	-14.04	V
15720.00	31.73	30.03	61.76	68.20	-6.44	V
10480.00	30.89	23.80	54.69	68.20	-13.51	H
15720.00	31.25	30.03	61.28	68.20	-6.92	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10480.00	19.71	23.80	43.51	54.00	-10.49	V
15720.00	20.70	30.03	50.73	54.00	-3.27	V
10480.00	20.15	23.80	43.95	54.00	-10.05	H
15720.00	20.40	30.03	50.43	54.00	-3.57	H

Remark:

1. During the test, pre-scan All antenna chains of the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11ac (VHT20) ANT1+ANT2 mode is worse case , the report only record this mode.
2. Result =Reading + Factor

Test Results (Above 1000MHz)

WiFi 5.3G(ANT1+ANT2):

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Low CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10520.00	27.54	23.81	51.35	68.20	-16.85	V
15780.00	28.81	30.48	59.29	68.20	-8.91	V
10520.00	28.52	23.81	52.33	68.20	-15.87	H
15780.00	27.67	30.48	58.15	68.20	-10.05	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10520.00	17.491	23.81	41.30	54.00	-12.70	V
15780.00	19.091	30.48	49.57	54.00	-4.43	V
10520.00	18.831	23.81	42.64	54.00	-11.36	H
15780.00	18.410	30.48	48.89	54.00	-5.11	H

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Middle CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10600.00	28.73	23.87	52.60	68.20	-15.60	V
15900.00	27.86	31.38	59.24	68.20	-8.96	V
10600.00	27.82	23.87	51.69	68.20	-16.51	H
15900.00	28.09	31.38	59.47	68.20	-8.73	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10600.00	18.161	23.87	42.03	54.00	-11.97	V
15900.00	18.841	31.38	50.22	54.00	-3.78	V
10600.00	18.111	23.87	41.98	54.00	-12.02	H
15900.00	18.560	31.38	49.94	54.00	-4.06	H

Test Mode: 802.11ac (VHT20)				Test channel: High CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10640.00	28.07	23.90	51.97	68.20	-16.23	V
15960.00	27.36	31.83	59.19	68.20	-9.01	V
10640.00	28.19	23.90	52.09	68.20	-16.11	H
15960.00	27.65	31.83	59.48	68.20	-8.72	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10640.00	16.90	23.90	40.80	54.00	-13.20	V
15960.00	17.80	31.83	49.63	54.00	-4.37	V
10640.00	17.28	23.90	41.18	54.00	-12.82	H
15960.00	18.88	31.83	50.71	54.00	-3.29	H

Remark:

2. During the test, pre-scan All antenna chains of the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11ac (VHT20) ANT1+ANT2 mode is worse case , the report only record this mode.

2. Result =Reading + Factor

Test Results (Above 1000MHz)

WiFi 5.6G(ANT1+ANT2):

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Low CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11000.00	26.91	24.15	51.06	68.20	-17.14	V
16500.00	28.96	33.05	62.01	68.20	-6.19	V
11000.00	28.67	24.15	52.82	68.20	-15.38	H
16500.00	29.10	33.05	62.15	68.20	-6.05	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11000.00	16.526	24.15	40.68	54.00	-13.32	V
16500.00	17.804	33.05	50.85	54.00	-3.15	V
11000.00	16.705	24.15	40.85	54.00	-13.15	H
16500.00	16.678	33.05	49.73	54.00	-4.27	H

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Middle CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11200.000	26.59	23.83	50.42	68.20	-17.78	V
16800.000	27.13	32.16	59.29	68.20	-8.91	V
11200.000	27.60	23.83	51.43	68.20	-16.77	H
16800.000	27.71	32.16	59.87	68.20	-8.33	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11200.000	16.776	23.83	40.61	54.00	-13.39	V
16800.000	18.204	32.16	50.36	54.00	-3.64	V
11200.000	17.205	23.83	41.03	54.00	-12.97	H
16800.000	18.538	32.16	50.70	54.00	-3.30	H

Test Mode: 802.11ac (VHT20)				Test channel: High CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11400.000	25.68	23.51	49.19	68.20	-19.01	V
17100.000	27.02	31.73	58.75	68.20	-9.45	V
11400.000	26.50	23.51	50.01	68.20	-18.19	H
17100.000	27.71	31.73	59.44	68.20	-8.76	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11400.000	16.16	23.51	39.67	54.00	-14.33	V
17100.000	17.41	31.73	49.14	54.00	-4.86	V
11400.000	19.99	23.51	43.50	54.00	-10.50	H
17100.000	18.33	31.73	50.06	54.00	-3.94	H

Remark:

3. During the test, pre-scan All antenna chains of the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11ac (VHT20) ANT1+ANT2 mode is worse case , the report only record this mode.

2. Result =Reading + Factor

Test Results (Above 1000MHz)

WiFi 5.8G(ANT1+ANT2):

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Low CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.000	28.47	23.36	51.83	68.20	-16.37	V
17235.000	29.77	31.97	61.74	68.20	-6.46	V
11490.000	28.86	23.36	52.22	68.20	-15.98	H
17235.000	30.01	31.97	61.98	68.20	-6.22	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11490.000	17.72	23.36	41.08	54.00	-12.92	V
17235.000	18.44	31.97	50.41	54.00	-3.59	V
11490.000	17.89	23.36	41.25	54.00	-12.75	H
17235.000	18.00	31.97	49.97	54.00	-4.03	H

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Middle CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.000	29.05	23.42	52.47	68.20	-15.73	V
17355.000	29.65	32.18	61.83	68.20	-6.37	V
11570.000	29.06	23.42	52.48	68.20	-15.72	H
17355.000	30.10	32.18	62.28	68.20	-5.92	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11570.000	18.990	23.42	42.41	54.00	-11.59	V
17355.000	18.761	32.18	50.94	54.00	-3.06	V
11570.000	18.876	23.42	42.30	54.00	-11.70	H
17355.000	18.379	32.18	50.56	54.00	-3.44	H

Test Mode: 802.11ac (VHT20)				Test channel: High CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.000	28.56	23.49	52.05	68.20	-16.15	V
17475.000	29.89	32.39	62.28	68.20	-5.92	V
11650.000	28.80	23.49	52.29	68.20	-15.91	H
17475.000	29.71	32.39	62.10	68.20	-6.10	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11650.000	18.06	23.49	41.55	54.00	-12.45	V
17475.000	18.56	32.39	50.95	54.00	-3.05	V
11650.000	18.06	23.49	41.55	54.00	-12.45	H
17475.000	18.35	32.39	50.74	54.00	-3.26	H

Remark:

4. During the test, pre-scan All antenna chains of the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11ac (VHT20) ANT1+ANT2 mode is worse case , the report only record this mode.

2. Result =Reading + Factor

For Model T18-PQA:

Test Results (Above 1000MHz)

WiFi 5.2G(ANT1+ANT2):

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Low CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	31.42	23.81	55.23	68.20	-12.97	V
15540.00	32.70	28.68	61.38	68.20	-6.82	V
10360.00	31.74	23.81	55.55	68.20	-12.65	H
15540.00	32.81	28.68	61.49	68.20	-6.71	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10360.00	20.754	23.81	44.56	54.00	-9.44	V
15540.00	21.791	28.68	50.47	54.00	-3.53	V
10360.00	20.928	23.81	44.74	54.00	-9.26	H
15540.00	21.518	28.68	50.20	54.00	-3.80	H

Test Mode: IEEE 802.11ac (VHT20)				Test channel: Middle CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	30.78	23.81	54.59	68.20	-13.61	V
15600.00	32.23	29.13	61.36	68.20	-6.84	V
10400.00	31.23	23.81	55.04	68.20	-13.16	H
15600.00	32.33	29.13	61.46	68.20	-6.74	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10400.00	21.024	23.81	44.83	54.00	-9.17	V
15600.00	21.911	29.13	51.04	54.00	-2.96	V
10400.00	20.918	23.81	44.73	54.00	-9.27	H
15600.00	21.598	29.13	50.73	54.00	-3.27	H

Test Mode: 802.11ac (VHT20)				Test channel: High CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	30.35	23.80	54.15	68.20	-14.05	V
15720.00	31.71	30.03	61.74	68.20	-6.46	V
10480.00	30.87	23.80	54.67	68.20	-13.53	H
15720.00	31.24	30.03	61.27	68.20	-6.93	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10480.00	19.69	23.80	43.49	54.00	-10.51	V
15720.00	20.67	30.03	50.70	54.00	-3.30	V
10480.00	20.13	23.80	43.93	54.00	-10.07	H
15720.00	20.39	30.03	50.42	54.00	-3.58	H

Remark:

1. During the test, pre-scan All antenna chains of the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11ac (VHT20) ANT1+ANT2 mode is worse case , the report only record this mode.
2. Result =Reading + Factor

Test Results (Above 1000MHz)

WiFi 5.3G(ANT1+ANT2):

Test Mode: IEEE 802.11n (VHT20)				Test channel: Low CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10520.00	27.53	23.81	51.34	68.20	-16.86	V
15780.00	28.79	30.48	59.27	68.20	-8.93	V
10520.00	28.51	23.81	52.32	68.20	-15.88	H
15780.00	27.67	30.48	58.15	68.20	-10.06	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10520.00	17.484	23.81	41.29	54.00	-12.71	V
15780.00	19.079	30.48	49.56	54.00	-4.44	V
10520.00	18.818	23.81	42.63	54.00	-11.37	H
15780.00	18.406	30.48	48.89	54.00	-5.11	H

Test Mode: IEEE 802.11n (VHT20)				Test channel: Middle CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10600.00	28.72	23.87	52.59	68.20	-15.61	V
15900.00	27.84	31.38	59.22	68.20	-8.98	V
10600.00	27.81	23.87	51.68	68.20	-16.52	H
15900.00	28.09	31.38	59.47	68.20	-8.74	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10600.00	18.154	23.87	42.02	54.00	-11.98	V
15900.00	18.829	31.38	50.21	54.00	-3.79	V
10600.00	18.098	23.87	41.97	54.00	-12.03	H
15900.00	18.556	31.38	49.94	54.00	-4.06	H

Test Mode: IEEE 802.11n (VHT20)				Test channel: High CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10640.00	28.06	23.90	51.96	68.20	-16.24	V
15960.00	27.34	31.83	59.17	68.20	-9.03	V
10640.00	28.18	23.90	52.08	68.20	-16.12	H
15960.00	27.65	31.83	59.48	68.20	-8.73	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
10640.00	16.89	23.90	40.79	54.00	-13.21	V
15960.00	17.79	31.83	49.62	54.00	-4.38	V
10640.00	17.27	23.90	41.17	54.00	-12.83	H
15960.00	18.88	31.83	50.71	54.00	-3.29	H

Remark:

5. During the test, pre-scan All antenna chains of the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11n (VHT20) ANT1+ANT2 mode is worse case , the report only record this mode.

2. Result =Reading + Factor

Test Results (Above 1000MHz)

WiFi 5.6G(ANT1+ANT2):

Test Mode: IEEE 802.11n (VHT20)				Test channel: Low CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11000.00	26.96	24.15	51.11	68.20	-17.09	V
16500.00	29.05	33.05	62.10	68.20	-6.10	V
11000.00	28.74	24.15	52.89	68.20	-15.31	H
16500.00	29.14	33.05	62.19	68.20	-6.01	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11000.00	16.622	24.15	40.77	54.00	-13.23	V
16500.00	17.943	33.05	50.99	54.00	-3.01	V
11000.00	16.822	24.15	40.97	54.00	-13.03	H
16500.00	16.731	33.05	49.78	54.00	-4.22	H

Test Mode: IEEE 802.11n (VHT20)				Test channel: Middle CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11200.000	26.64	23.83	50.47	68.20	-17.73	V
16800.000	27.22	32.16	59.38	68.20	-8.82	V
11200.000	27.67	23.83	51.50	68.20	-16.70	H
16800.000	27.75	32.16	59.91	68.20	-8.29	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11200.000	16.872	23.83	40.70	54.00	-13.30	V
16800.000	18.343	32.16	50.50	54.00	-3.50	V
11200.000	17.322	23.83	41.15	54.00	-12.85	H
16800.000	18.591	32.16	50.75	54.00	-3.25	H

Test Mode: IEEE 802.11n (VHT20)				Test channel: High CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11400.000	25.73	23.51	49.24	68.20	-18.96	V
17100.000	27.11	31.73	58.84	68.20	-9.36	V
11400.000	26.57	23.51	50.08	68.20	-18.12	H
17100.000	27.75	31.73	59.48	68.20	-8.72	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11400.000	16.25	23.51	39.76	54.00	-14.24	V
17100.000	17.55	31.73	49.28	54.00	-4.72	V
11400.000	20.11	23.51	43.62	54.00	-10.38	H
17100.000	18.38	31.73	50.11	54.00	-3.89	H

Remark:

6. During the test, pre-scan All antenna chains of the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11n (VHT20) ANT1+ANT2 mode is worse case , the report only record this mode.

2. Result =Reading + Factor

Test Results (Above 1000MHz)

WiFi 5.8G(ANT1+ANT2):

Test Mode: IEEE 802.11n (VHT20)				Test channel: Low CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.000	28.48	23.36	51.84	68.20	-16.36	V
17235.000	29.79	31.97	61.76	68.20	-6.44	V
11490.000	28.88	23.36	52.24	68.20	-15.96	H
17235.000	30.03	31.97	62.00	68.20	-6.20	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11490.000	17.74	23.36	41.10	54.00	-12.90	V
17235.000	18.47	31.97	50.44	54.00	-3.56	V
11490.000	17.91	23.36	41.27	54.00	-12.73	H
17235.000	18.01	31.97	49.98	54.00	-4.02	H

Test Mode: IEEE 802.11n (VHT20)				Test channel: Middle CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.000	29.06	23.42	52.48	68.20	-15.72	V
17355.000	29.67	32.18	61.85	68.20	-6.35	V
11570.000	29.08	23.42	52.50	68.20	-15.70	H
17355.000	30.12	32.18	62.30	68.20	-5.90	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11570.000	19.012	23.42	42.43	54.00	-11.57	V
17355.000	18.793	32.18	50.97	54.00	-3.03	V
11570.000	18.902	23.42	42.32	54.00	-11.68	H
17355.000	18.391	32.18	50.57	54.00	-3.43	H

Test Mode: IEEE 802.11n (VHT20)				Test channel: High CH		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.000	28.57	23.49	52.06	68.20	-16.14	V
17475.000	29.91	32.39	62.30	68.20	-5.90	V
11650.000	28.82	23.49	52.31	68.20	-15.89	H
17475.000	29.73	32.39	62.12	68.20	-6.08	H
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	polarization
11650.000	18.08	23.49	41.57	54.00	-12.43	V
17475.000	18.59	32.39	50.98	54.00	-3.02	V
11650.000	18.08	23.49	41.57	54.00	-12.43	H
17475.000	18.36	32.39	50.75	54.00	-3.25	H

Remark:

7. During the test, pre-scan All antenna chains of the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11n (VHT20) ANT1+ANT2 mode is worse case , the report only record this mode.

2. Result =Reading + Factor

Radiated Band Edge:

For Model T18-21A:

ANT1: 5.2G&5.3G

Test Mode: 802.11a				Test channel: Lowest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	36.93	15.99	52.92	68.20	-15.28	Horizontal
5150.00	38.99	15.99	54.98	68.20	-13.22	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5150.00	26.88	15.99	42.87	54.00	-11.13	Horizontal
5150.00	28.92	15.99	44.91	54.00	-9.09	Vertical

Test Mode: 802.11a				Test channel: Highest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.39	16.43	53.82	68.20	-14.38	Horizontal
5350.00	40.30	16.43	56.73	68.20	-11.47	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5350.00	28.69	16.43	45.12	54.00	-8.88	Horizontal
5350.00	29.61	16.43	46.04	54.00	-7.96	Vertical

Remark: 1. Result = Reading + Factor

1. During the test, pre-scan models T18-21A & T18-PQA & T18-BXA, only the worst case (T18-21A) is recorded in the report.

ANT1: 5.6G&5.8G

Test Mode: 802.11a	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	38.04	16.37	54.41	74.00	-19.59	Horizontal
5460.00	39.38	16.37	55.75	74.00	-18.25	Vertical
5470.00	38.52	16.70	55.22	68.20	-12.98	Horizontal
5470.00	39.05	16.70	55.75	68.20	-12.45	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	28.67	16.37	45.04	54.00	-8.96	Horizontal
5460.00	28.53	16.37	44.90	54.00	-9.10	Vertical
5470.00	28.61	16.70	45.31	54.00	-8.69	Horizontal
5470.00	29.67	16.70	46.37	54.00	-7.63	Vertical

Test Mode: 802.11a	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	38.97	17.21	56.18	68.20	-12.02	Horizontal
5850.00	39.31	17.21	56.52	68.20	-11.68	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	28.97	17.21	46.18	54.00	-7.82	Horizontal
5850.00	29.01	17.21	46.22	54.00	-7.78	Vertical

Remark: 1. Result = Reading + Factor

2. During the test, pre-scan models T18-21A & T18-PQA & T18-BXA, only the worst case (T18-21A) is recorded in the report.

ANT2: 5.2G&5.3G

Test Mode: 802.11a	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	36.95	15.99	52.94	68.20	-15.26	Horizontal
5150.00	39.02	15.99	55.01	68.20	-13.19	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5150.00	26.90	15.99	42.89	54.00	-11.11	Horizontal
5150.00	28.94	15.99	44.93	54.00	-9.07	Vertical

Test Mode: 802.11a	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.41	16.43	53.84	68.20	-14.36	Horizontal
5350.00	40.34	16.43	56.77	68.20	-11.43	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5350.00	28.72	16.43	45.15	54.00	-8.85	Horizontal
5350.00	29.63	16.43	46.06	54.00	-7.94	Vertical

Remark: 1. Result = Reading + Factor

2. During the test, pre-scan models T18-21A & T18-PQA & T18-BXA, only the worst case (T18-21A) is recorded in the report.

ANT2: 5.6G&5.8G

Test Mode: 802.11a	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	38.10	16.37	54.47	74.00	-19.53	Horizontal
5460.00	39.45	16.37	55.82	74.00	-18.18	Vertical
5470.00	38.52	16.70	55.22	68.20	-12.98	Horizontal
5470.00	39.05	16.70	55.75	68.20	-12.45	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	28.71	16.37	45.08	54.00	-8.92	Horizontal
5460.00	28.58	16.37	44.95	54.00	-9.05	Vertical
5470.00	28.61	16.70	45.31	54.00	-8.69	Horizontal
5470.00	29.67	16.70	46.37	54.00	-7.63	Vertical

Test Mode: 802.11a	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	39.03	17.21	56.24	68.20	-11.96	Horizontal
5850.00	39.38	17.21	56.59	68.20	-11.61	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	29.03	17.21	46.24	54.00	-7.76	Horizontal
5850.00	29.06	17.21	46.27	54.00	-7.73	Vertical

Remark: 1. Result = Reading + Factor

2. During the test, pre-scan models T18-21A & T18-PQA & T18-BXA, only the worst case (T18-21A) is recorded in the report.

ANT1+ANT2: 5.2G&5.3G

Test Mode: 802.11n20	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	35.91	15.99	51.90	68.20	-16.30	Horizontal
5150.00	37.30	15.99	53.29	68.20	-14.92	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5150.00	26.63	15.99	42.62	54.00	-11.38	Horizontal
5150.00	27.62	15.99	43.61	54.00	-10.39	Vertical

Test Mode: 802.11n20	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.73	16.43	54.16	68.20	-14.04	Horizontal
5350.00	38.77	16.43	55.20	68.20	-13.00	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5350.00	27.76	16.43	44.19	54.00	-9.82	Horizontal
5350.00	29.20	16.43	45.63	54.00	-8.37	Vertical

Remark:

1. Level =Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case , the report only record this mode.
3. During the test, pre-scan 802.11n20 all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Test Mode: 802.11n40	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	36.44	15.99	52.43	68.20	-15.77	Horizontal
5150.00	38.29	15.99	54.28	68.20	-13.92	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5150.00	27.01	15.99	43.00	54.00	-11.00	Horizontal
5150.00	28.73	15.99	44.72	54.00	-9.28	Vertical

Test Mode: 802.11n40	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	38.06	16.43	54.49	68.20	-13.71	Horizontal
5350.00	36.93	16.43	53.36	68.20	-14.84	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5350.00	28.26	16.43	44.69	54.00	-9.31	Horizontal
5350.00	29.46	16.43	45.89	54.00	-8.11	Vertical

Remark:

1. Level = Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case, the report only record this mode.
3. During the test, pre-scan 802.11n40 all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Test Mode: 802.11ac(HT20)	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	36.90	15.99	52.89	68.20	-15.31	Horizontal
5150.00	38.65	15.99	54.64	68.20	-13.56	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5150.00	26.54	15.99	42.53	54.00	-11.47	Horizontal
5150.00	28.72	15.99	44.71	54.00	-9.29	Vertical

Test Mode: 802.11ac(HT20)	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.86	16.43	54.29	68.20	-13.91	Horizontal
5350.00	38.11	16.43	54.54	68.20	-13.66	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5350.00	27.77	16.43	44.20	54.00	-9.80	Horizontal
5350.00	28.32	16.43	44.75	54.00	-9.25	Vertical

Remark:

1. Level = Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case, the report only record this mode.
3. During the test, pre-scan 802.11ac(HT20) all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Test Mode: 802.11ac(HT40)	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	35.85	15.99	51.84	68.20	-16.36	Horizontal
5150.00	36.31	15.99	52.30	68.20	-15.90	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5150.00	26.02	15.99	42.01	54.00	-11.99	Horizontal
5150.00	26.77	15.99	42.76	54.00	-11.24	Vertical

Test Mode: 802.11ac(HT40)	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	38.01	16.43	54.44	68.20	-13.77	Horizontal
5350.00	37.16	16.43	53.59	68.20	-14.61	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5350.00	27.47	16.43	43.90	54.00	-10.10	Horizontal
5350.00	27.43	16.43	43.86	54.00	-10.14	Vertical

Remark:

1. Level =Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case , the report only record this mode.
3. During the test, pre-scan 802.11ac(HT40) all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Test Mode: 802.11ac(HT80)	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	36.00	15.99	51.99	68.20	-16.21	Horizontal
5150.00	36.39	15.99	52.38	68.20	-15.82	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5150.00	26.53	15.99	42.52	54.00	-11.48	Horizontal
5150.00	26.80	15.99	42.79	54.00	-11.21	Vertical

Test Mode: 802.11ac(HT80)	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	38.25	16.43	54.68	68.20	-13.52	Horizontal
5350.00	37.40	16.43	53.83	68.20	-14.37	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5350.00	28.73	16.43	45.16	54.00	-8.84	Horizontal
5350.00	28.07	16.43	44.50	54.00	-9.50	Vertical

Remark:

1. Level =Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case , the report only record this mode.
3. During the test, pre-scan 802.11ac(HT80) all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

ANT1+ANT2: 5.6G&5.8G

Test Mode: 802.11n20	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	38.06	16.37	54.43	74.00	-19.57	Horizontal
5460.00	38.62	16.37	54.99	74.00	-19.01	Vertical
5470.00	37.62	16.70	54.32	68.20	-13.88	Horizontal
5470.00	37.88	16.70	54.58	68.20	-13.62	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	27.12	16.37	43.49	54.00	-10.51	Horizontal
5460.00	27.53	16.37	43.90	54.00	-10.10	Vertical
5470.00	27.28	16.70	43.98	54.00	-10.02	Horizontal
5470.00	27.65	16.70	44.35	54.00	-9.65	Vertical

Test Mode: 802.11n20	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	37.27	17.21	54.48	68.20	-13.72	Horizontal
5850.00	37.90	17.21	55.11	68.20	-13.09	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	27.52	17.21	44.73	54.00	-9.27	Horizontal
5850.00	28.37	17.21	45.58	54.00	-8.42	Vertical

Remark:

1. Level =Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case , the report only record this mode.
3. During the test, pre-scan 802.11n20 all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Test Mode: 802.11n40	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	37.64	16.37	54.01	74.00	-19.99	Horizontal
5460.00	38.50	16.37	54.87	74.00	-19.13	Vertical
5470.00	37.92	16.70	54.62	68.20	-13.58	Horizontal
5470.00	38.42	16.70	55.12	68.20	-13.08	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	26.79	16.37	43.16	54.00	-10.84	Horizontal
5460.00	28.68	16.37	45.05	54.00	-8.95	Vertical
5470.00	26.57	16.70	43.27	54.00	-10.73	Horizontal
5470.00	28.08	16.70	44.78	54.00	-9.22	Vertical

Test Mode: 802.11n40	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	38.00	17.05	55.05	68.20	-13.15	Horizontal
5850.00	38.41	17.05	55.46	68.20	-12.74	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	28.17	17.05	45.22	54.00	-8.78	Horizontal
5850.00	29.28	17.05	46.33	54.00	-7.67	Vertical

Remark:

1. Level =Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case , the report only record this mode.
3. During the test, pre-scan 802.11n40 all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Test Mode: 802.11ac(HT20)	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	37.30	16.37	53.67	74.00	-20.33	Horizontal
5460.00	37.49	16.37	53.86	74.00	-20.14	Vertical
5470.00	37.42	16.70	54.12	68.20	-14.08	Horizontal
5470.00	38.06	16.70	54.76	68.20	-13.44	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	27.96	16.37	44.33	54.00	-9.67	Horizontal
5460.00	28.55	16.37	44.92	54.00	-9.08	Vertical
5470.00	27.92	16.70	44.62	54.00	-9.38	Horizontal
5470.00	28.46	16.70	45.16	54.00	-8.84	Vertical

Test Mode: 802.11ac(HT20)	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	38.04	17.21	55.25	68.20	-12.95	Horizontal
5850.00	38.94	17.21	56.15	68.20	-12.05	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	27.93	17.21	45.14	54.00	-8.86	Horizontal
5850.00	28.97	17.21	46.18	54.00	-7.82	Vertical

Remark:

1. Level =Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case , the report only record this mode.
3. During the test, pre-scan 802.11ac(HT20) all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Test Mode: 802.11ac(HT40)	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	36.26	16.37	52.63	74.00	-21.37	Horizontal
5460.00	37.80	16.37	54.17	74.00	-19.83	Vertical
5470.00	36.27	16.70	52.97	68.20	-15.23	Horizontal
5470.00	37.86	16.70	54.56	68.20	-13.64	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	27.27	16.37	43.64	54.00	-10.36	Horizontal
5460.00	27.41	16.37	43.78	54.00	-10.22	Vertical
5470.00	27.20	16.70	43.90	54.00	-10.10	Horizontal
5470.00	27.94	16.70	44.64	54.00	-9.36	Vertical

Test Mode: 802.11ac(HT40)	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5725.00	37.61	17.21	54.82	68.20	-13.38	Horizontal
5725.00	38.41	17.21	55.62	68.20	-12.58	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5725.00	27.61	17.21	44.82	54.00	-9.18	Horizontal
5725.00	27.20	17.21	44.41	54.00	-9.59	Vertical

Remark:

1. Level =Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case , the report only record this mode.
3. During the test, pre-scan 802.11ac(HT40) all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Test Mode: 802.11ac(HT80)	Test channel: Lowest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	35.54	16.37	51.91	74.00	-22.09	Horizontal
5460.00	37.05	16.37	53.42	74.00	-20.58	Vertical
5470.00	35.53	16.70	52.23	68.20	-15.97	Horizontal
5470.00	37.49	16.70	54.19	68.20	-14.01	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5460.00	25.77	16.37	42.14	54.00	-11.86	Horizontal
5460.00	26.92	16.37	43.29	54.00	-10.71	Vertical
5470.00	25.92	16.70	42.62	54.00	-11.38	Horizontal
5470.00	26.76	16.70	43.46	54.00	-10.54	Vertical

Test Mode: 802.11ac(HT80)	Test channel: Highest
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Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	37.51	17.21	54.72	68.20	-13.48	Horizontal
5850.00	37.83	17.21	55.04	68.20	-13.16	Vertical

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
5850.00	27.87	17.21	45.08	54.00	-8.92	Horizontal
5850.00	28.22	17.21	45.43	54.00	-8.57	Vertical

Remark:

1. Level =Read level + Factor
2. During the test, pre-scan all antenna chains of models T18-21A & T18-PQA & T18-BXA, and found the T18-21A: ANT1+ANT2 mode is worse case , the report only record this mode.
3. During the test, pre-scan 802.11ac(HT80) all the models(SISO and MIMO), and only the worst case (MIMO) is recorded in the report.

Conducted Measurement:

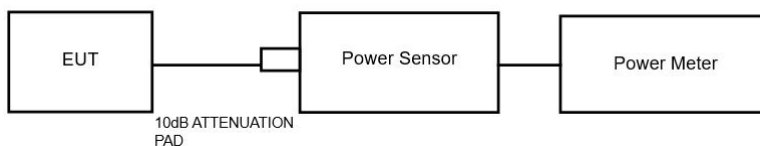
Please refer to Appendix D of the Appendix Test Data.

5. Maximum conducted output power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.407(a)	
Test Limit	5.15 - 5.25GHz	1) Outdoor AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$, then $P_{out} = 30 - (GT_x - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125\text{mW}$ (21dBm) 2) Indoor AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$, then $P_{out} = 30 - (GT_x - 6)$. 3) Point-to-point AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 23\text{dBi}$, then $P_{out} = 30 - (GT_x - 23)$. 4) Client devices The maximum conducted output power (Pout) shall not exceed the lesser of 250W (23.98dBm). if $GT_x > 6\text{dBi}$, then $P_{out} = 24 - (GT_x - 6)$.
	5.25 - 5.35GHz	The maximum conducted output power (Pout) shall not exceed the lesser of 250mW (23.98dBm) or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. if $GT_x > 6\text{dBi}$, then $P_{out} = 24 - (GT_x - 6)$.
	5.47 - 5.725GHz	The maximum conducted output power (Pout) shall not exceed the lesser of 250mW (23.98dBm) or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. if $GT_x > 6\text{dBi}$, then $P_{out} = 24 - (GT_x - 6)$.
	5.725 - 5.85GHz	1) Point-to-multipoint systems (P2M) The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$, then $P_{out} = 30 - (GT_x - 6)$. 2) Point-to-point systems (P2P) The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm).

5.2. Test Setup



5.3. Test Procedure

1. The Transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the power value.
3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

5.4. Test Data

Pass

Please refer to Appendix B of the Appendix Test Data.

Additional test for duty cycle.

Please refer to Appendix H of the Appendix Test Data.

Note: The EUT does not support the TPC function.

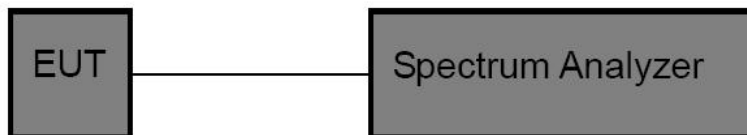


6. Occupy Bandwidth Test

6.1. Test Standard

Test Standard	FCC Part15 C Section 15.407 (a)(5)
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6.2. Test Setup



6.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

3. Set the spectrum analyzer as:

26 dB & 99% bandwidth

RBW = approximately 1% of the emission bandwidth;
Set the VBW > RBW;
Detector= Peak
Trace mode= Max hold.
Sweep- auto couple.

6 dB bandwidth

RBW = approximately 1% of the emission bandwidth;
Set the VBW > RBW;
Detector= Peak
Trace mode= Max hold.
Sweep- auto couple.

4. Measure the maximum width of the emission that is 26dB /6dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer.

5. Repeat until all the rest channels are investigated.

6.4. Test Data

Pass

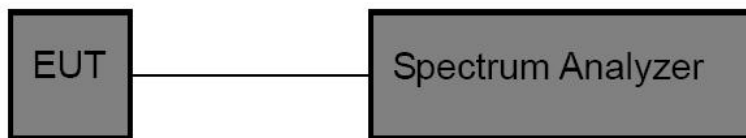
Please refer to Appendix A1&A2&A3 of the Appendix Test Data.

7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.407(a)	
Test Limit	5.15 - 5.25GHz	1) Outdoor AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 17 - (GT_x - 6)$. 2) Indoor AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 17 - (GT_x - 6)$. 3) Point-to-point AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 23\text{dBi}$, then $PSD = 17 - (GT_x - 23)$. 4) Client devices The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 11 - (GT_x - 6)$.
	5.25 - 5.35GHz	The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 11 - (GT_x - 6)$.
	5.47- 5.725GHz	The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 11 - (GT_x - 6)$.
	5.725 - 5.85GHz	1) Point-to-multipoint systems (P2M) The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz. if $GT_x > 6\text{dBi}$, then $PSD = 30 - (GT_x - 6)$. 2) Point-to-point systems (P2P) The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

7.2. Test Setup



7.3. Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided

that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz).

1. The EUT is directly connected to the spectrum analyzer;
2. Set RBW =1MHz;
3. Set VBW \geq 3 RBW=3MHz;
3. Set the span to encompass the entire emissions bandwidth (EBW) of the signal;
5. Detector=RMS;
6. Sweep time= auto couple;
7. Trace mode=max. hold;

7.4. Test Data

Pass

Please refer to Appendix C of the Appendix Test Data.

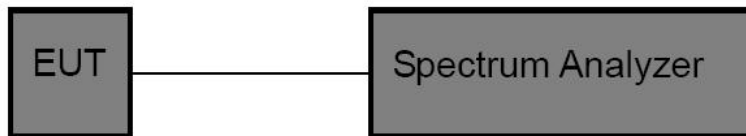


8. Frequency Stability

8.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Limit	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

8.2. Test Setup



8.3. Test Procedure

The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage.

- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

8.4. Test Data

Pass

Please to see the following pages.

Test Mode: 5.2G								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict	
802.11a	SISO (ANT1)	5180	20	102.00	5180.08	5172 to 5188	Pass	
				120.00	5180.01	5172 to 5188	Pass	
				138.00	5180.10	5172 to 5188	Pass	
			-30	120.00	5180.08	5172 to 5188	Pass	
				-20	120.00	5180.05	5150 to 5250	Pass
					-10	120.00	5180.12	5150 to 5250
			0	120.00	5180.11	5150 to 5250	Pass	
				10	120.00	5180.12	5150 to 5250	Pass
			30	120.00	5180.12	5150 to 5250	Pass	
			40	120.00	5180.02	5150 to 5250	Pass	
		50	120.00	5180.11	5172 to 5188	Pass		
		5200	20	102.00	5200.04	5192 to 5208	Pass	
				120.00	5200.03	5192 to 5208	Pass	
				138.00	5200.00	5192 to 5208	Pass	
			-30	120.00	5200.12	5192 to 5208	Pass	
				-20	120.00	5200.11	5150 to 5250	Pass
					-10	120.00	5200.03	5150 to 5250
			0	120.00	5200.00	5150 to 5250	Pass	
				10	120.00	5200.05	5150 to 5250	Pass
			30	120.00	5200.08	5150 to 5250	Pass	
			40	120.00	5200.11	5150 to 5250	Pass	
		50	120.00	5200.06	5192 to 5208	Pass		
		5240	20	102.00	5240.02	5232 to 5248	Pass	
				120.00	5240.00	5232 to 5248	Pass	
				138.00	5240.00	5232 to 5248	Pass	
			-30	120.00	5240.11	5232 to 5248	Pass	
				-20	120.00	5240.01	5150 to 5250	Pass
					-10	120.00	5240.02	5150 to 5250
			0	120.00	5240.03	5150 to 5250	Pass	
				10	120.00	5240.08	5150 to 5250	Pass
30	120.00		5240.11	5150 to 5250	Pass			
40	120.00		5240.12	5150 to 5250	Pass			
50	120.00	5240.12	5232 to 5248	Pass				
802.11n (HT20)	MIMO	5180	20	102.00	5180.04	5172 to 5188	Pass	
				120.00	5180.10	5172 to 5188	Pass	
				138.00	5180.01	5172 to 5188	Pass	
			-30	120.00	5180.02	5172 to 5188	Pass	
				-20	120.00	5180.11	5150 to 5250	Pass

802.11n (HT40)	MIMO	5200	-10	120.00	5180.06	5150 to 5250	Pass	
			0	120.00	5180.10	5150 to 5250	Pass	
			10	120.00	5180.01	5150 to 5250	Pass	
			30	120.00	5180.06	5150 to 5250	Pass	
			40	120.00	5180.03	5150 to 5250	Pass	
			50	120.00	5180.03	5172 to 5188	Pass	
		5200	20	102.00	5200.09	5192 to 5208	Pass	
				120.00	5200.04	5192 to 5208	Pass	
				138.00	5200.11	5192 to 5208	Pass	
			-30	120.00	5200.05	5192 to 5208	Pass	
			-20	120.00	5200.11	5150 to 5250	Pass	
			-10	120.00	5200.04	5150 to 5250	Pass	
		5200	0	120.00	5200.04	5150 to 5250	Pass	
				10	120.00	5200.11	5150 to 5250	Pass
				30	120.00	5200.10	5150 to 5250	Pass
				40	120.00	5200.05	5150 to 5250	Pass
				50	120.00	5200.06	5192 to 5208	Pass
				5240	20	102.00	5240.10	5232 to 5248
	120.00	5240.09	5232 to 5248			Pass		
	138.00	5240.07	5232 to 5248			Pass		
	-30	120.00	5240.11		5232 to 5248	Pass		
	-20	120.00	5240.09		5150 to 5250	Pass		
	-10	120.00	5240.07		5150 to 5250	Pass		
	5240	0	120.00	5240.09	5150 to 5250	Pass		
			10	120.00	5240.03	5150 to 5250	Pass	
			30	120.00	5240.02	5150 to 5250	Pass	
			40	120.00	5240.09	5150 to 5250	Pass	
			50	120.00	5240.11	5232 to 5248	Pass	
			5190	20	102.00	5190.05	5174 to 5206	Pass
	120.00	5190.02			5174 to 5206	Pass		
	138.00	5190.12			5174 to 5206	Pass		
	-30	120.00			5190.13	5174 to 5206	Pass	
	-20	120.00			5190.02	5150 to 5250	Pass	
-10	120.00	5190.10			5150 to 5250	Pass		
0	120.00	5190.03		5150 to 5250	Pass			
	10	120.00		5190.00	5150 to 5250	Pass		
	30	120.00		5190.08	5150 to 5250	Pass		
	40	120.00		5190.08	5150 to 5250	Pass		
	50	120.00		5190.10	5174 to 5206	Pass		
	5230	20		102.00	5230.04	5214 to 5246	Pass	
120.00			5230.06	5214 to 5246	Pass			

				138.00	5230.10	5214 to 5246	Pass
			-30	120.00	5230.01	5214 to 5246	Pass
			-20	120.00	5230.07	5150 to 5250	Pass
			-10	120.00	5230.12	5150 to 5250	Pass
			0	120.00	5230.10	5150 to 5250	Pass
			10	120.00	5230.09	5150 to 5250	Pass
			30	120.00	5230.04	5150 to 5250	Pass
			40	120.00	5230.10	5150 to 5250	Pass
			50	120.00	5230.12	5214 to 5246	Pass
802.11ac (VHT20)	MIMO	5180	20	102.00	5180.11	5172 to 5188	Pass
				120.00	5180.07	5172 to 5188	Pass
				138.00	5180.04	5172 to 5188	Pass
			-30	120.00	5180.06	5172 to 5188	Pass
			-20	120.00	5180.01	5150 to 5250	Pass
			-10	120.00	5180.06	5150 to 5250	Pass
			0	120.00	5180.01	5150 to 5250	Pass
			10	120.00	5180.02	5150 to 5250	Pass
			30	120.00	5180.03	5150 to 5250	Pass
		40	120.00	5180.11	5150 to 5250	Pass	
		50	120.00	5180.11	5172 to 5188	Pass	
		5200	20	102.00	5200.09	5192 to 5208	Pass
				120.00	5200.12	5192 to 5208	Pass
				138.00	5200.07	5192 to 5208	Pass
			-30	120.00	5200.10	5192 to 5208	Pass
			-20	120.00	5200.10	5150 to 5250	Pass
			-10	120.00	5200.12	5150 to 5250	Pass
			0	120.00	5200.11	5150 to 5250	Pass
			10	120.00	5200.12	5150 to 5250	Pass
			30	120.00	5200.03	5150 to 5250	Pass
		40	120.00	5200.12	5150 to 5250	Pass	
50	120.00	5200.04	5192 to 5208	Pass			
5240	20	102.00	5240.03	5232 to 5248	Pass		
		120.00	5240.00	5232 to 5248	Pass		
		138.00	5240.09	5232 to 5248	Pass		
	-30	120.00	5240.10	5232 to 5248	Pass		
	-20	120.00	5240.06	5150 to 5250	Pass		
	-10	120.00	5240.02	5150 to 5250	Pass		
	0	120.00	5240.04	5150 to 5250	Pass		
	10	120.00	5240.11	5150 to 5250	Pass		
30	120.00	5240.12	5150 to 5250	Pass			
40	120.00	5240.01	5150 to 5250	Pass			

802.11ac (VHT40)	MIMO	5190	50	120.00	5240.05	5232 to 5248	Pass
			20	102.00	5190.08	5174 to 5206	Pass
				120.00	5190.13	5174 to 5206	Pass
				138.00	5190.11	5174 to 5206	Pass
			-30	120.00	5190.03	5174 to 5206	Pass
			-20	120.00	5190.03	5150 to 5250	Pass
			-10	120.00	5190.09	5150 to 5250	Pass
			0	120.00	5190.13	5150 to 5250	Pass
			10	120.00	5190.08	5150 to 5250	Pass
		30	120.00	5190.02	5150 to 5250	Pass	
		40	120.00	5190.07	5150 to 5250	Pass	
		50	120.00	5190.02	5174 to 5206	Pass	
		5230	20	102.00	5230.07	5214 to 5246	Pass
				120.00	5230.01	5214 to 5246	Pass
				138.00	5230.06	5214 to 5246	Pass
			-30	120.00	5230.12	5214 to 5246	Pass
			-20	120.00	5230.03	5150 to 5250	Pass
			-10	120.00	5230.09	5150 to 5250	Pass
			0	120.00	5230.11	5150 to 5250	Pass
10	120.00		5230.03	5150 to 5250	Pass		
30	120.00		5230.12	5150 to 5250	Pass		
40	120.00	5230.12	5150 to 5250	Pass			
50	120.00	5230.03	5214 to 5246	Pass			
802.11ac (VHT80)	MIMO	5210	20	102.00	5210.00	5178 to 5242	Pass
				120.00	5210.05	5178 to 5242	Pass
				138.00	5210.04	5178 to 5242	Pass
			-30	120.00	5210.09	5178 to 5242	Pass
			-20	120.00	5210.08	5150 to 5250	Pass
			-10	120.00	5210.07	5150 to 5250	Pass
			0	120.00	5210.04	5150 to 5250	Pass
			10	120.00	5210.04	5150 to 5250	Pass
			30	120.00	5210.06	5150 to 5250	Pass
40	120.00	5210.05	5150 to 5250	Pass			
50	120.00	5210.06	5178 to 5242	Pass			

Test Mode: 5.3G								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict	
802.11a	SISO (ANT1)	5260	20	102.00	5260.05	5252 to 5268	Pass	
				120.00	5260.00	5252 to 5268	Pass	
				138.00	5260.12	5252 to 5268	Pass	
			-30	102.00	5260.11	5252 to 5268	Pass	
				-20	120.00	5260.06	5250 to 5350	Pass
					-10	120.00	5260.07	5250 to 5350
			0	120.00	5260.04	5250 to 5350	Pass	
				10	120.00	5260.03	5250 to 5350	Pass
			30	120.00	5260.07	5250 to 5350	Pass	
			40	120.00	5260.12	5250 to 5350	Pass	
		50	120.00	5260.00	5252 to 5268	Pass		
		5300	20	102.00	5300.01	5292 to 5308	Pass	
				120.00	5300.04	5292 to 5308	Pass	
				138.00	5300.05	5292 to 5308	Pass	
			-30	102.00	5300.03	5292 to 5308	Pass	
				-20	120.00	5300.07	5250 to 5350	Pass
					-10	120.00	5300.02	5250 to 5350
			0	120.00	5300.02	5250 to 5350	Pass	
				10	120.00	5300.07	5250 to 5350	Pass
			30	120.00	5300.09	5250 to 5350	Pass	
			40	120.00	5300.03	5250 to 5350	Pass	
		50	120.00	5300.12	5292 to 5308	Pass		
		5320	20	102.00	5320.11	5312 to 5328	Pass	
				120.00	5320.12	5312 to 5328	Pass	
				138.00	5320.10	5312 to 5328	Pass	
			-30	102.00	5320.05	5312 to 5328	Pass	
				-20	120.00	5320.03	5250 to 5350	Pass
					-10	120.00	5320.06	5250 to 5350
			0	120.00	5320.04	5250 to 5350	Pass	
				10	120.00	5320.08	5250 to 5350	Pass
30	120.00		5320.11	5250 to 5350	Pass			
40	120.00		5320.06	5250 to 5350	Pass			
50	120.00	5320.07	5312 to 5328	Pass				
802.11n (HT20)	MIMO	5260	20	102.00	5260.10	5252 to 5268	Pass	
				120.00	5260.08	5252 to 5268	Pass	
				138.00	5260.01	5252 to 5268	Pass	
			-30	102.00	5260.12	5252 to 5268	Pass	
				-20	120.00	5260.09	5250 to 5350	Pass

802.11n (HT40)	MIMO	5300	-10	120.00	5260.09	5250 to 5350	Pass
			0	120.00	5260.12	5250 to 5350	Pass
			10	120.00	5260.04	5250 to 5350	Pass
			30	120.00	5260.04	5250 to 5350	Pass
			40	120.00	5260.00	5250 to 5350	Pass
			50	120.00	5260.09	5252 to 5268	Pass
		5320	20	102.00	5300.07	5292 to 5308	Pass
				120.00	5300.04	5292 to 5308	Pass
				138.00	5300.04	5292 to 5308	Pass
			-30	102.00	5300.13	5292 to 5308	Pass
			-20	120.00	5300.04	5250 to 5350	Pass
			-10	120.00	5300.09	5250 to 5350	Pass
			0	120.00	5300.11	5250 to 5350	Pass
			10	120.00	5300.01	5250 to 5350	Pass
			30	120.00	5300.13	5250 to 5350	Pass
			40	120.00	5300.03	5250 to 5350	Pass
			50	120.00	5300.09	5292 to 5308	Pass
			5310	20	102.00	5320.11	5312 to 5328
		120.00			5320.03	5312 to 5328	Pass
		138.00			5320.05	5312 to 5328	Pass
		-30		102.00	5320.01	5312 to 5328	Pass
		-20		120.00	5320.01	5250 to 5350	Pass
		-10		120.00	5320.01	5250 to 5350	Pass
		0		120.00	5320.03	5250 to 5350	Pass
		10		120.00	5320.05	5250 to 5350	Pass
		30		120.00	5320.04	5250 to 5350	Pass
		40		120.00	5320.12	5250 to 5350	Pass
		5270	20	102.00	5270.01	5254 to 5286	Pass
				120.00	5270.02	5254 to 5286	Pass
				138.00	5270.08	5254 to 5286	Pass
			-30	102.00	5270.11	5254 to 5286	Pass
			-20	120.00	5270.04	5250 to 5350	Pass
			-10	120.00	5270.09	5250 to 5350	Pass
			0	120.00	5270.12	5250 to 5350	Pass
			10	120.00	5270.10	5250 to 5350	Pass
			30	120.00	5270.01	5250 to 5350	Pass
40	120.00		5270.05	5250 to 5350	Pass		
50	120.00		5270.11	5254 to 5286	Pass		
5310	20		102.00	5310.01	5294 to 5326	Pass	
		120.00	5310.00	5294 to 5326	Pass		

				138.00	5310.01	5294 to 5326	Pass
			-30	102.00	5310.05	5294 to 5326	Pass
			-20	120.00	5310.06	5250 to 5350	Pass
			-10	120.00	5310.08	5250 to 5350	Pass
			0	120.00	5310.13	5250 to 5350	Pass
			10	120.00	5310.07	5250 to 5350	Pass
			30	120.00	5310.03	5250 to 5350	Pass
			40	120.00	5310.07	5250 to 5350	Pass
			50	120.00	5310.01	5294 to 5326	Pass
802.11ac (VHT20)	MIMO	5260	20	102.00	5260.00	5252 to 5268	Pass
				120.00	5260.03	5252 to 5268	Pass
				138.00	5260.11	5252 to 5268	Pass
			-30	102.00	5260.07	5252 to 5268	Pass
			-20	120.00	5260.04	5250 to 5350	Pass
			-10	120.00	5260.06	5250 to 5350	Pass
			0	120.00	5260.12	5250 to 5350	Pass
			10	120.00	5260.05	5250 to 5350	Pass
			30	120.00	5260.11	5250 to 5350	Pass
		40	120.00	5260.12	5250 to 5350	Pass	
		50	120.00	5260.07	5252 to 5268	Pass	
		5300	20	102.00	5300.11	5292 to 5308	Pass
				120.00	5300.07	5292 to 5308	Pass
				138.00	5300.09	5292 to 5308	Pass
			-30	102.00	5300.03	5292 to 5308	Pass
			-20	120.00	5300.06	5250 to 5350	Pass
			-10	120.00	5300.01	5250 to 5350	Pass
			0	120.00	5300.06	5250 to 5350	Pass
			10	120.00	5300.06	5250 to 5350	Pass
			30	120.00	5300.01	5250 to 5350	Pass
		40	120.00	5300.12	5250 to 5350	Pass	
		50	120.00	5300.04	5292 to 5308	Pass	
		5320	20	102.00	5320.03	5312 to 5328	Pass
				120.00	5320.11	5312 to 5328	Pass
				138.00	5320.09	5312 to 5328	Pass
			-30	102.00	5320.07	5312 to 5328	Pass
			-20	120.00	5320.07	5250 to 5350	Pass
-10	120.00		5320.09	5250 to 5350	Pass		
0	120.00		5320.12	5250 to 5350	Pass		
10	120.00		5320.05	5250 to 5350	Pass		
30	120.00		5320.12	5250 to 5350	Pass		
40	120.00	5320.06	5250 to 5350	Pass			

802.11ac (VHT40)	MIMO	5270	50	120.00	5320.07	5312 to 5328	Pass
			20	102.00	5270.02	5254 to 5286	Pass
				120.00	5270.11	5254 to 5286	Pass
				138.00	5270.02	5254 to 5286	Pass
			-30	102.00	5270.06	5254 to 5286	Pass
			-20	120.00	5270.06	5250 to 5350	Pass
			-10	120.00	5270.08	5250 to 5350	Pass
			0	120.00	5270.03	5250 to 5350	Pass
			10	120.00	5270.12	5250 to 5350	Pass
			30	120.00	5270.13	5250 to 5350	Pass
	40	120.00	5270.01	5250 to 5350	Pass		
	50	120.00	5270.05	5254 to 5286	Pass		
	5310	20	102.00	5310.03	5294 to 5326	Pass	
			120.00	5310.08	5294 to 5326	Pass	
			138.00	5310.11	5294 to 5326	Pass	
		-30	102.00	5310.02	5294 to 5326	Pass	
		-20	120.00	5310.12	5250 to 5350	Pass	
		-10	120.00	5310.07	5250 to 5350	Pass	
		0	120.00	5310.08	5250 to 5350	Pass	
		10	120.00	5310.04	5250 to 5350	Pass	
30		120.00	5310.08	5250 to 5350	Pass		
40		120.00	5310.13	5250 to 5350	Pass		
50	120.00	5310.02	5294 to 5326	Pass			
802.11ac (VHT80)	MIMO	5290	20	102.00	5290.13	5258 to 5322	Pass
				120.00	5290.08	5258 to 5322	Pass
				138.00	5290.10	5258 to 5322	Pass
			-30	102.00	5290.11	5258 to 5322	Pass
			-20	120.00	5290.13	5250 to 5350	Pass
			-10	120.00	5290.07	5250 to 5350	Pass
			0	120.00	5290.06	5250 to 5350	Pass
			10	120.00	5290.09	5250 to 5350	Pass
			30	120.00	5290.06	5250 to 5350	Pass
			40	120.00	5290.12	5250 to 5350	Pass
50	120.00	5290.03	5258 to 5322	Pass			

Test Mode: 5.6G								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict	
802.11a	SISO (ANT1)	5500	20	102.00	5500.09	5492 to 5508	Pass	
				120.00	5500.12	5492 to 5508	Pass	
				138.00	5500.06	5492 to 5508	Pass	
			-30	102.00	5500.06	5492 to 5508	Pass	
				-20	120.00	5500.13	5470 to 5725	Pass
					-10	120.00	5500.01	5470 to 5725
			0	120.00	5500.04	5470 to 5725	Pass	
				10	120.00	5500.10	5470 to 5725	Pass
			30		120.00	5500.10	5470 to 5725	Pass
				40	120.00	5500.07	5470 to 5725	Pass
		50	120.00		5500.02	5492 to 5508	Pass	
		5580	20	102.00	5580.02	5572 to 5588	Pass	
				120.00	5580.04	5572 to 5588	Pass	
				138.00	5580.01	5572 to 5588	Pass	
			-30	102.00	5580.12	5572 to 5588	Pass	
				-20	120.00	5580.05	5470 to 5725	Pass
					-10	120.00	5580.11	5470 to 5725
			0	120.00	5580.12	5470 to 5725	Pass	
				10	120.00	5580.07	5470 to 5725	Pass
			30		120.00	5580.09	5470 to 5725	Pass
				40	120.00	5580.10	5470 to 5725	Pass
		50	120.00		5580.12	5572 to 5588	Pass	
		5700	20	102.00	5700.11	5692 to 5708	Pass	
				120.00	5700.04	5692 to 5708	Pass	
				138.00	5700.08	5692 to 5708	Pass	
			-30	102.00	5700.09	5692 to 5708	Pass	
				-20	120.00	5700.09	5470 to 5725	Pass
					-10	120.00	5700.03	5470 to 5725
			0	120.00	5700.10	5470 to 5725	Pass	
				10	120.00	5700.06	5470 to 5725	Pass
30	120.00		5700.00		5470 to 5725	Pass		
	40		120.00	5700.09	5470 to 5725	Pass		
50		120.00	5700.07	5692 to 5708	Pass			
802.11n (HT20)	MIMO	5500	20	102.00	5500.13	5492 to 5508	Pass	
				120.00	5500.01	5492 to 5508	Pass	
				138.00	5500.10	5492 to 5508	Pass	
			-30	102.00	5500.01	5492 to 5508	Pass	

			-20	120.00	5500.10	5470 to 5725	Pass
			-10	120.00	5500.06	5470 to 5725	Pass
			0	120.00	5500.01	5470 to 5725	Pass
			10	120.00	5500.08	5470 to 5725	Pass
			30	120.00	5500.03	5470 to 5725	Pass
			40	120.00	5500.01	5470 to 5725	Pass
			50	120.00	5500.07	5492 to 5508	Pass
		5580	20	102.00	5580.10	5572 to 5588	Pass
				120.00	5580.00	5572 to 5588	Pass
				138.00	5580.06	5572 to 5588	Pass
			-30	102.00	5580.01	5572 to 5588	Pass
			-20	120.00	5580.03	5470 to 5725	Pass
			-10	120.00	5580.13	5470 to 5725	Pass
			0	120.00	5580.04	5470 to 5725	Pass
			10	120.00	5580.09	5470 to 5725	Pass
			30	120.00	5580.07	5470 to 5725	Pass
			40	120.00	5580.10	5470 to 5725	Pass
			50	120.00	5580.04	5572 to 5588	Pass
		5700	20	102.00	5700.02	5692 to 5708	Pass
				120.00	5700.02	5692 to 5708	Pass
				138.00	5700.09	5692 to 5708	Pass
			-30	102.00	5700.12	5692 to 5708	Pass
			-20	120.00	5700.01	5470 to 5725	Pass
			-10	120.00	5700.03	5470 to 5725	Pass
			0	120.00	5700.10	5470 to 5725	Pass
			10	120.00	5700.04	5470 to 5725	Pass
			30	120.00	5700.05	5470 to 5725	Pass
			40	120.00	5700.09	5470 to 5725	Pass
50	120.00		5700.03	5692 to 5708	Pass		
802.11n (HT40)	MIMO	5510	20	102.00	5510.05	5494 to 5526	Pass
				120.00	5510.07	5494 to 5526	Pass
				138.00	5510.06	5494 to 5526	Pass
			-30	102.00	5510.00	5494 to 5526	Pass
			-20	120.00	5510.03	5470 to 5725	Pass
			-10	120.00	5510.02	5470 to 5725	Pass
			0	120.00	5510.03	5470 to 5725	Pass
			10	120.00	5510.12	5470 to 5725	Pass
			30	120.00	5510.05	5470 to 5725	Pass
			40	120.00	5510.03	5470 to 5725	Pass
50	120.00	5510.09	5494 to 5526	Pass			

		5550	20	102.00	5550.00	5534 to 5566	Pass		
				120.00	5550.09	5534 to 5566	Pass		
				138.00	5550.08	5534 to 5566	Pass		
			-30	102.00	5550.09	5534 to 5566	Pass		
			-20	120.00	5550.09	5470 to 5725	Pass		
			-10	120.00	5550.07	5470 to 5725	Pass		
			0	120.00	5550.04	5470 to 5725	Pass		
			10	120.00	5550.05	5470 to 5725	Pass		
			30	120.00	5550.07	5470 to 5725	Pass		
			40	120.00	5550.03	5470 to 5725	Pass		
			50	120.00	5550.12	5534 to 5566	Pass		
			5670	20	102.00	5670.08	5654 to 5686	Pass	
		120.00			5670.01	5654 to 5686	Pass		
		138.00			5670.03	5654 to 5686	Pass		
		-30		102.00	5670.05	5654 to 5686	Pass		
		-20		120.00	5670.10	5470 to 5725	Pass		
		-10		120.00	5670.07	5470 to 5725	Pass		
		0		120.00	5670.01	5470 to 5725	Pass		
		10		120.00	5670.08	5470 to 5725	Pass		
		30		120.00	5670.09	5470 to 5725	Pass		
		40		120.00	5670.11	5470 to 5725	Pass		
		50		120.00	5670.12	5654 to 5686	Pass		
		802.11ac (VHT20)		MIMO	5500	20	102.00	5500.13	5492 to 5508
			120.00				5500.08	5492 to 5508	Pass
138.00	5500.08		5492 to 5508				Pass		
-30	102.00		5500.06			5492 to 5508	Pass		
-20	120.00		5500.06			5470 to 5725	Pass		
-10	120.00		5500.06			5470 to 5725	Pass		
0	120.00		5500.05			5470 to 5725	Pass		
10	120.00		5500.04			5470 to 5725	Pass		
30	120.00		5500.04			5470 to 5725	Pass		
40	120.00		5500.01		5470 to 5725	Pass			
50	120.00		5500.03		5492 to 5508	Pass			
5580	20		102.00		5580.08	5572 to 5588	Pass		
			120.00		5580.12	5572 to 5588	Pass		
			138.00		5580.05	5572 to 5588	Pass		
	-30		102.00		5580.09	5572 to 5588	Pass		
	-20		120.00		5580.04	5470 to 5725	Pass		
	-10		120.00		5580.06	5470 to 5725	Pass		
	0		120.00		5580.01	5470 to 5725	Pass		

			10	120.00	5580.08	5470 to 5725	Pass
			30	120.00	5580.07	5470 to 5725	Pass
			40	120.00	5580.04	5470 to 5725	Pass
			50	120.00	5580.01	5572 to 5588	Pass
		5700	20	102.00	5700.08	5692 to 5708	Pass
				120.00	5700.04	5692 to 5708	Pass
				138.00	5700.12	5692 to 5708	Pass
			-30	102.00	5700.10	5692 to 5708	Pass
			-20	120.00	5700.04	5470 to 5725	Pass
			-10	120.00	5700.07	5470 to 5725	Pass
			0	120.00	5700.12	5470 to 5725	Pass
			10	120.00	5700.13	5470 to 5725	Pass
			30	120.00	5700.04	5470 to 5725	Pass
			40	120.00	5700.01	5470 to 5725	Pass
			50	120.00	5700.06	5692 to 5708	Pass
			5510	20	102.00	5510.07	5494 to 5526
		120.00			5510.09	5494 to 5526	Pass
		138.00			5510.10	5494 to 5526	Pass
		-30		102.00	5510.05	5494 to 5526	Pass
		-20		120.00	5510.05	5470 to 5725	Pass
-10	120.00	5510.06		5470 to 5725	Pass		
0	120.00	5510.01		5470 to 5725	Pass		
10	120.00	5510.00		5470 to 5725	Pass		
30	120.00	5510.12		5470 to 5725	Pass		
40	120.00	5510.01		5470 to 5725	Pass		
50	120.00	5510.09	5494 to 5526	Pass			
5550	20	102.00	5550.10	5534 to 5566	Pass		
		120.00	5550.12	5534 to 5566	Pass		
		138.00	5550.09	5534 to 5566	Pass		
	-30	102.00	5550.05	5534 to 5566	Pass		
	-20	120.00	5550.04	5470 to 5725	Pass		
	-10	120.00	5550.05	5470 to 5725	Pass		
	0	120.00	5550.08	5470 to 5725	Pass		
	10	120.00	5550.08	5470 to 5725	Pass		
	30	120.00	5550.05	5470 to 5725	Pass		
	40	120.00	5550.03	5470 to 5725	Pass		
50	120.00	5550.11	5534 to 5566	Pass			
5670	20	102.00	5670.05	5654 to 5686	Pass		
		120.00	5670.08	5654 to 5686	Pass		
		138.00	5670.10	5654 to 5686	Pass		

802.11ac
(VHT40)

MIMO

			-30	102.00	5670.05	5654 to 5686	Pass			
			-20	120.00	5670.12	5470 to 5725	Pass			
			-10	120.00	5670.11	5470 to 5725	Pass			
			0	120.00	5670.04	5470 to 5725	Pass			
			10	120.00	5670.09	5470 to 5725	Pass			
			30	120.00	5670.02	5470 to 5725	Pass			
			40	120.00	5670.05	5470 to 5725	Pass			
			50	120.00	5670.13	5654 to 5686	Pass			
802.11ac (VHT80)	MIMO	5530	20	102.00	5530.04	5498 to 5562	Pass			
				120.00	5530.04	5498 to 5562	Pass			
				138.00	5530.09	5498 to 5562	Pass			
						-30	102.00	5530.00	5498 to 5562	Pass
						-20	120.00	5530.10	5470 to 5725	Pass
						-10	120.00	5530.04	5470 to 5725	Pass
						0	120.00	5530.01	5470 to 5725	Pass
						10	120.00	5530.08	5470 to 5725	Pass
						30	120.00	5530.06	5470 to 5725	Pass
						40	120.00	5530.12	5470 to 5725	Pass
						50	120.00	5530.11	5498 to 5562	Pass

Test Mode: 5.8G								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict	
802.11a	SISO (ANT1)	5745	20	102.00	5745.00	5737 to 5753	Pass	
				120.00	5745.07	5737 to 5753	Pass	
				138.00	5745.05	5737 to 5753	Pass	
			-30	102.00	5745.09	5737 to 5753	Pass	
				-20	120.00	5745.09	5725 to 5850	Pass
					-10	120.00	5745.09	5725 to 5850
			0	120.00	5745.04	5725 to 5850	Pass	
				10	120.00	5745.04	5725 to 5850	Pass
			30	120.00	5745.09	5725 to 5850	Pass	
			40	120.00	5745.09	5725 to 5850	Pass	
		50	120.00	5745.05	5737 to 5753	Pass		
		5785	20	102.00	5785.07	5777 to 5793	Pass	
				120.00	5785.05	5777 to 5793	Pass	
				138.00	5785.11	5777 to 5793	Pass	
			-30	102.00	5785.05	5777 to 5793	Pass	
				-20	120.00	5785.01	5725 to 5850	Pass
					-10	120.00	5785.07	5725 to 5850
			0	120.00	5785.06	5725 to 5850	Pass	
				10	120.00	5785.00	5725 to 5850	Pass
			30	120.00	5785.00	5725 to 5850	Pass	
			40	120.00	5785.09	5725 to 5850	Pass	
		50	120.00	5785.01	5777 to 5793	Pass		
		5825	20	102.00	5825.03	5817 to 5833	Pass	
				120.00	5825.01	5817 to 5833	Pass	
				138.00	5825.10	5817 to 5833	Pass	
			-30	102.00	5825.06	5817 to 5833	Pass	
				-20	120.00	5825.01	5725 to 5850	Pass
					-10	120.00	5825.02	5725 to 5850
			0	120.00	5825.05	5725 to 5850	Pass	
				10	120.00	5825.07	5725 to 5850	Pass
30	120.00		5825.11	5725 to 5850	Pass			
40	120.00		5825.13	5725 to 5850	Pass			
50	120.00	5825.07	5817 to 5833	Pass				
802.11n (HT20)	MIMO	5745	20	102.00	5745.03	5737 to 5753	Pass	
				120.00	5745.05	5737 to 5753	Pass	
				138.00	5745.11	5737 to 5753	Pass	
			-30	102.00	5745.03	5737 to 5753	Pass	
				-20	120.00	5745.03	5725 to 5850	Pass

			-10	120.00	5745.10	5725 to 5850	Pass		
			0	120.00	5745.01	5725 to 5850	Pass		
			10	120.00	5745.10	5725 to 5850	Pass		
			30	120.00	5745.09	5725 to 5850	Pass		
			40	120.00	5745.03	5725 to 5850	Pass		
			50	120.00	5745.02	5737 to 5753	Pass		
		5785	20	102.00	5785.09	5777 to 5793	Pass		
				120.00	5785.06	5777 to 5793	Pass		
				138.00	5785.08	5777 to 5793	Pass		
			-30	102.00	5785.05	5777 to 5793	Pass		
			-20	120.00	5785.10	5725 to 5850	Pass		
			-10	120.00	5785.03	5725 to 5850	Pass		
			0	120.00	5785.02	5725 to 5850	Pass		
			10	120.00	5785.09	5725 to 5850	Pass		
			30	120.00	5785.01	5725 to 5850	Pass		
			40	120.00	5785.02	5725 to 5850	Pass		
			50	120.00	5785.12	5777 to 5793	Pass		
			5825	20	102.00	5825.03	5817 to 5833	Pass	
		120.00			5825.12	5817 to 5833	Pass		
		138.00			5825.00	5817 to 5833	Pass		
		-30		102.00	5825.04	5817 to 5833	Pass		
		-20		120.00	5825.10	5725 to 5850	Pass		
		-10		120.00	5825.09	5725 to 5850	Pass		
		0		120.00	5825.01	5725 to 5850	Pass		
		10		120.00	5825.02	5725 to 5850	Pass		
		30		120.00	5825.07	5725 to 5850	Pass		
		40		120.00	5825.06	5725 to 5850	Pass		
		50		120.00	5825.05	5817 to 5833	Pass		
		802.11n (HT40)		MIMO	5755	102.00	5755.06	5739 to 5771	Pass
			20			120.00	5755.04	5739 to 5771	Pass
			138.00			5755.05	5739 to 5771	Pass	
			-30			102.00	5755.11	5739 to 5771	Pass
			-20			120.00	5755.02	5725 to 5850	Pass
-10	120.00		5755.03			5725 to 5850	Pass		
0	120.00		5755.09		5725 to 5850	Pass			
10	120.00		5755.03		5725 to 5850	Pass			
30	120.00		5755.09		5725 to 5850	Pass			
40	120.00		5755.01		5725 to 5850	Pass			
50	120.00		5755.03		5739 to 5771	Pass			
5795	20		102.00		5795.07	5779 to 5811	Pass		

				120.00	5795.10	5779 to 5811	Pass
				138.00	5795.12	5779 to 5811	Pass
			-30	102.00	5795.04	5779 to 5811	Pass
			-20	120.00	5795.02	5725 to 5850	Pass
			-10	120.00	5795.09	5725 to 5850	Pass
			0	120.00	5795.08	5725 to 5850	Pass
			10	120.00	5795.07	5725 to 5850	Pass
			30	120.00	5795.05	5725 to 5850	Pass
			40	120.00	5795.06	5725 to 5850	Pass
			50	120.00	5795.09	5779 to 5811	Pass
		5745		102.00	5745.04	5737 to 5753	Pass
			20	120.00	5745.03	5737 to 5753	Pass
				138.00	5745.07	5737 to 5753	Pass
			-30	102.00	5745.13	5737 to 5753	Pass
			-20	120.00	5745.04	5725 to 5850	Pass
			-10	120.00	5745.02	5725 to 5850	Pass
			0	120.00	5745.09	5725 to 5850	Pass
			10	120.00	5745.12	5725 to 5850	Pass
			30	120.00	5745.08	5725 to 5850	Pass
			40	120.00	5745.07	5725 to 5850	Pass
		5785		102.00	5785.08	5777 to 5793	Pass
			20	120.00	5785.06	5777 to 5793	Pass
				138.00	5785.09	5777 to 5793	Pass
			-30	102.00	5785.02	5777 to 5793	Pass
			-20	120.00	5785.02	5725 to 5850	Pass
			-10	120.00	5785.00	5725 to 5850	Pass
			0	120.00	5785.06	5725 to 5850	Pass
			10	120.00	5785.12	5725 to 5850	Pass
			30	120.00	5785.10	5725 to 5850	Pass
			40	120.00	5785.03	5725 to 5850	Pass
		5825		102.00	5825.11	5817 to 5833	Pass
			20	120.00	5825.05	5817 to 5833	Pass
				138.00	5825.10	5817 to 5833	Pass
			-30	102.00	5825.02	5817 to 5833	Pass
			-20	120.00	5825.07	5725 to 5850	Pass
			-10	120.00	5825.07	5725 to 5850	Pass
			0	120.00	5825.06	5725 to 5850	Pass
			10	120.00	5825.11	5725 to 5850	Pass

802.11ac
(VHT20)

MIMO

			30	120.00	5825.03	5725 to 5850	Pass
			40	120.00	5825.01	5725 to 5850	Pass
			50	120.00	5825.07	5817 to 5833	Pass
802.11ac (VHT40)	MIMO	5755	20	102.00	5755.03	5739 to 5771	Pass
				120.00	5755.10	5739 to 5771	Pass
				138.00	5755.02	5739 to 5771	Pass
			-30	102.00	5755.01	5739 to 5771	Pass
			-20	120.00	5755.12	5725 to 5850	Pass
			-10	120.00	5755.01	5725 to 5850	Pass
			0	120.00	5755.05	5725 to 5850	Pass
			10	120.00	5755.11	5725 to 5850	Pass
			30	120.00	5755.12	5725 to 5850	Pass
			40	120.00	5755.00	5725 to 5850	Pass
	50	120.00	5755.02	5739 to 5771	Pass		
	5795	20	102.00	5795.07	5779 to 5811	Pass	
			120.00	5795.11	5779 to 5811	Pass	
			138.00	5795.07	5779 to 5811	Pass	
		-30	102.00	5795.07	5779 to 5811	Pass	
		-20	120.00	5795.08	5725 to 5850	Pass	
		-10	120.00	5795.05	5725 to 5850	Pass	
		0	120.00	5795.01	5725 to 5850	Pass	
		10	120.00	5795.10	5725 to 5850	Pass	
		30	120.00	5795.11	5725 to 5850	Pass	
40		120.00	5795.03	5725 to 5850	Pass		
50	120.00	5795.07	5779 to 5811	Pass			
802.11ac (VHT80)	MIMO	5775	20	102.00	5775.07	5743 to 5807	Pass
				120.00	5775.02	5743 to 5807	Pass
				138.00	5775.05	5743 to 5807	Pass
			-30	102.00	5775.06	5743 to 5807	Pass
			-20	120.00	5775.00	5725 to 5850	Pass
			-10	120.00	5775.10	5725 to 5850	Pass
			0	120.00	5775.10	5725 to 5850	Pass
			10	120.00	5775.02	5725 to 5850	Pass
			30	120.00	5775.07	5725 to 5850	Pass
			40	120.00	5775.13	5725 to 5850	Pass
50	120.00	5775.01	5743 to 5807	Pass			

9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /15.407
Requirement	<p>1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.407 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p>

9.2. Antenna Connected Construction

The antenna is ANT1/ ANT2: External Antenna(T18-21A); ANT1/ ANT2: PCB Antenna (T18-PQA&T18-BXA), which permanently attached, and the best case gain of the antenna is ANT1/ ANT2: 5dBi (T18-21A); ANT1/ ANT2: 4dBi (T18-PQA&T18-BXA) It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Power Line Conducted Emission Test

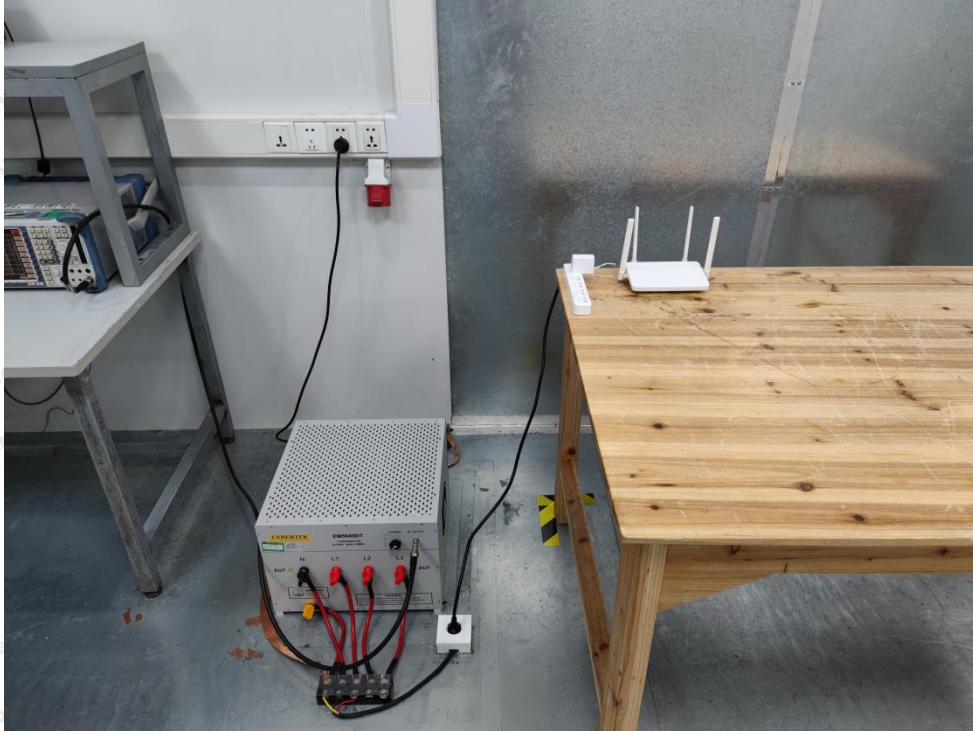
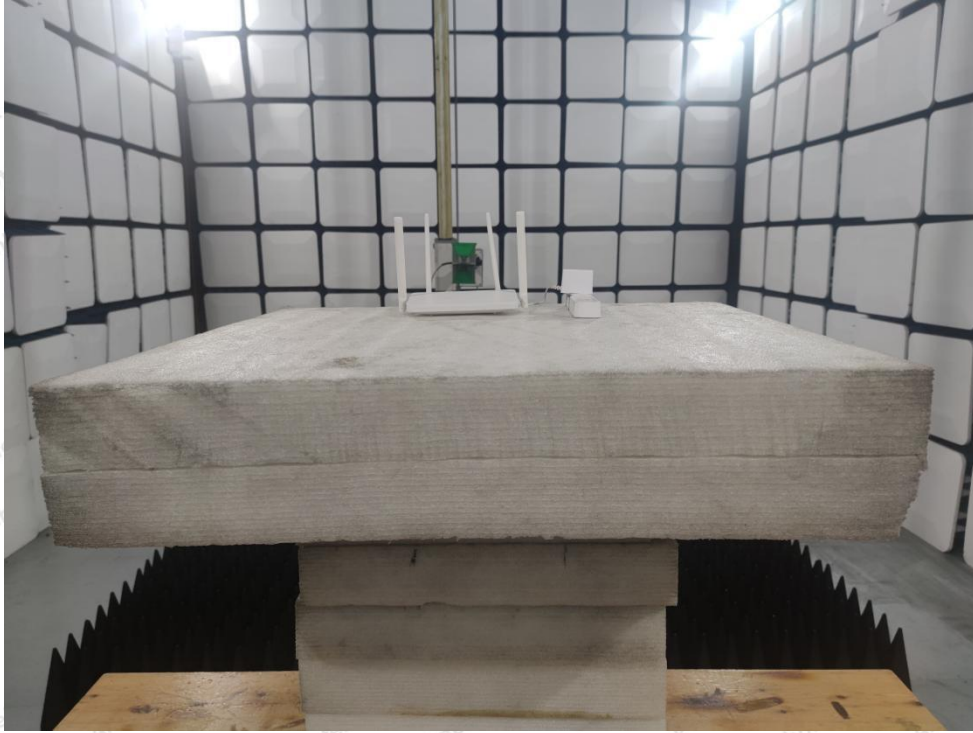


Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH

Reference to the test report 18220WC10233901.

APPENDIX III -- INTERNAL PHOTOGRAPH

Reference to the test report 18220WC10233901.



APPENDIX IV – Appendix Test Data