

FCC &ISED Radio Test Report**FCC ID: 2ACK6-CD68T2****IC: 29050-8A1C6D****The report concerns: Original Grant**

Report Reference No. : 22EFSS07109 06711
Date Sample(s) Received : 2022-06-27
Date of Tested : 2022-06-27 to 2022-08-10
Date of issue : 2022-08-10
Testing Laboratory : DongGuanShuoXin Electronic Technology Co., Ltd.
Address : Zone A, 1F, No. 6, XinGang Road YuanGang Street,
XinAn District, ChangAn Town, DongGuan City,
GuangDong, China

Applicant's name : CABASSE SAS
Address : 210 rue René Descartes, 29280 Plouzane, France
Manufacturer : CABASSE SAS

Equipment : MOZART3 v2 module
Trade Mark : CABASSE
Model : MOZART3 v2 module
Ratings : I/P: DC 5V

Test Engineer:



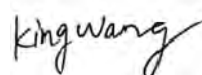
Blue Qiu

Responsible Engineer :



Smile Wang

Authorized Signatory:



King Wang

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1TEST REPORT DECLARE

Applicant	CABASSE SAS
Address	210 rue René Descartes, 29280 Plouzane, France
Manufacturer	CABASSE SAS
Address	210 rue René Descartes, 29280 Plouzane, France
Factory	CABASSE SAS
Address	210 rue René Descartes, 29280 Plouzane, France
Equipment	MOZART3 v2 module
Model No.	MOZART3 v2 module
Trade Mark	CABASSE
Standard	FCC Part15, Subpart E(15.407) RSS-247 Issue 2, Feb. 2017 RSS-Gen Issue 5, Apr. 2018 ANSI C63.10-2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

We Declare:

The equipment described above is tested by DongGuan ShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuan ShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.

2SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Standard(s) Section		Test Item	Judgment	Remark
FCC	IC			
15.207 15.407(b)	RSS-GEN 8.8	AC Power Line Conducted Emissions	PASS	-----
15.407(b) 15.205(a) 15.209(a)	RSS-247 6.2.1.2 RSS-247 6.2.4.2 RSS-GEN 8.9 RSS-GEN 8.10	Radiated Emissions	PASS	-----
15.407(a) 15.407(e)	RSS-247 6.2.1.1 RSS-247 6.2.2.1 RSS-247 6.2.3.1 RSS-247 6.2.4.1 RSS-GEN 6.7	Spectrum Bandwidth	PASS	-----
15.407(a)	RSS-247 6.2.1.1 RSS-247 6.2.2.1 RSS-247 6.2.3.1 RSS-247 6.2.4.1	Maximum Output Power	PASS	-----
15.407(a)	RSS-247 6.2.1.1 RSS-247 6.2.2.1 RSS-247 6.2.3.1 RSS-247 6.2.4.1	Power Spectral Density	PASS	-----
15.407(g)	RSS-GEN 6.11	Frequency Stability	PASS	-----
15.203	RSS-247 6.4(a)	Antenna Requirements	PASS	Note(4)
15.407(c)	RSS-GEN 8.8	Automatically Discontinue Transmission	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving.the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
- (3) For UNII-1 this device was functioned as a
☐ Access point device ☒ Client device
- (4) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: V)
	4.60 dB (Polarize: H)
Uncertainty for Radiation Emission test (200MHz-1GHz)	6.10 dB (Polarize: V)
	5.08 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: V)
	5.01 dB (Polarize: H)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: V)
	5.26 dB (Polarize: H)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: V)
	5.06 dB (Polarize: H)
Uncertainty for radio frequency	$\pm 0.048\text{kHz}$
Uncertainty for conducted RF Power	$\pm 0.32\text{dB}$

Note:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test Facility:

The Test site used by DongGuan ShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

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

Item	Registration No.	Expiration Date
CNAS	L3098	2024-08-27
A2LA	4893.01	2022-08-30
Innovation, Science and Economic Development Canada (ISED)	11033A	2022-08-30
Federal Communications Commission (FCC)	171688 Designation No.:CN1235	2022-08-30

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	MOZART3 v2 module	
Brand Name	CABASSE	
Test Model	MOZART3 v2 module	
Series Model	N/A	
Model Difference(s)	N/A	
Hardware Version	V1.0	
Software Version	V1.0	
PowerSource	Supplied from USB.	
Power Rating	DC 5V	
Operation Frequency Bands	UNII-1: 5150 MHz~5250 MHz UNII-2A: 5250MHz~5350 MHz UNII-2C:5470 MHz~5725 MHz UNII-3: 5725 MHz~5850 MHz	
Modulation Type	OFDM	
Bit Rate of Transmitter	Up to 866.6Mbps	
Operating Mode	IEEE 802.11a: 1TX(Ant 1 or Ant 2) IEEE 802.11n (HT20): 2TX(Ant 1+Ant 2) IEEE 802.11n (HT40): 2TX(Ant 1+Ant 2) IEEE 802.11ac (VHT20): 2TX(Ant 1+Ant 2) IEEE 802.11ac (VHT40): 2TX(Ant 1+Ant 2) IEEE 802.11ac (VHT80): 2TX(Ant 1+Ant 2)	
Antenna Information	Antenna Type:PIFA	Maximum Peak Gain:2.33dBi
MaximumOutput Power	IEEE 802.11a: 22.55dBm (0.1799W) IEEE 802.11n (HT20): 21.71dBm (0.1483 W) IEEE 802.11n (HT40): 21.96dBm (0.157 W) IEEE 802.11ac (VHT20): 21.61dBm (0.1449 W) IEEE 802.11ac (VHT40): 20.34dBm (0.1081 W) IEEE 802.11ac (VHT80): 17.28dBm (0.0535 W)	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. It is not open 5600MHz-5650MHz for Canada.And all test data in the 5600MHz-5650MHz range is FCC only

3.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH120, CH140 (UNII-2C)
Mode 14	TX N (HT20) Mode / CH100, CH120, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH120, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 19	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 20	TX N (HT20) Mode / CH149, CH157, CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151, CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149, CH157, CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151, CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 25	TX N (HT40) Mode / CH159 (UNII-3)

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 13	TX N (HT40) Mode / CH159 (UNII-3)

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 13	TX N (HT40) Mode / CH159 (UNII-3)

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 11	TX A Mode / CH100, CH120, CH140 (UNII-2C)
Mode 12	TX N (HT20) Mode / CH100, CH120, CH140 (UNII-2C)
Mode 13	TX N (HT40) Mode/CH102, CH110, CH134(UNII-2C)
Mode 14	TX AC (VHT80) Mode / CH106,(UNII-2C)
Mode 15	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 16	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 17	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 18	TX AC (VHT80) Mode / CH155 (UNII-3)

Conducted test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH120, CH140 (UNII-2C)
Mode 14	TX N (HT20) Mode / CH100, CH120, CH140 (UNII-2C)
Mode 15	TX N (HT40) Mode/CH102, CH110, CH134(UNII-2C)
Mode 16	TX AC (VHT20) Mode / CH100, CH120, CH140 (UNII-2C)
Mode 17	TX AC (VHT40) Mode/CH102, CH110, CH134(UNII-2C)
Mode 18	TX AC (VHT80) Mode / CH106 (UNII-2C)
Mode 19	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 20	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC (VHT80) Mode / CH155 (UNII-3)

Note:

- (1) For radiated emission below 1 GHz and AC power line conducted emissions test, the IEEE 802.11n channel 38 is found to be the worst case and recorded.

3.3PARAMETERS OF TEST SOFTWARE

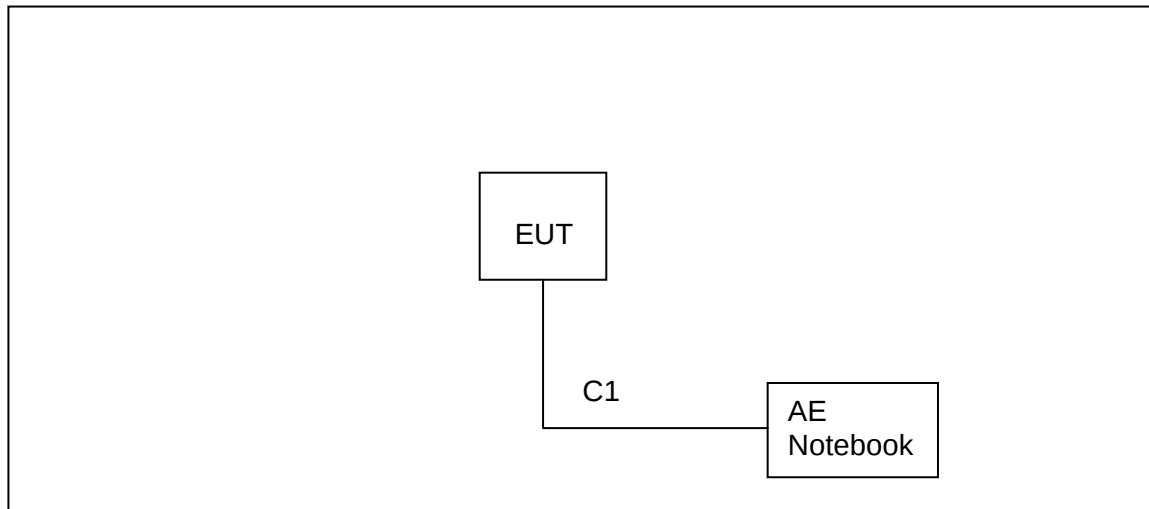
UNII-1			
Test Software	PCIE WLAN MP		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	83/74	83/74	83/74
IEEE 802.11n (HT20)	82/73	82/73	82/73
IEEE 802.11ac (VHT20)	81/71	81/71	81/71
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	78/73	78/73	
IEEE 802.11ac (VHT40)	79/76	79/76	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	80/71		

UNII-2A			
Test Software	PCIE WLAN MP		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11a	83/75	83/75	83/75
IEEE 802.11n (HT20)	88/79	88/79	88/79
IEEE 802.11ac (VHT20)	81/71	81/71	81/71
Test Frequency (MHz)	5270	5310	
IEEE 802.11n (HT40)	80/77	80/77	
IEEE 802.11ac (VHT40)	79/76	82/75	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	81/71		

UNII-2C			
Test Software	PCIE WLAN MP		
Test Frequency (MHz)	5500	5600	5700
IEEE 802.11a	83/72	83/72	83/72
IEEE 802.11n (HT20)	83/72	83/74	83/75
IEEE 802.11ac (VHT20)	81/71	81/71	81/71
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11n (HT40)	80/77	80/77	80/77
IEEE 802.11ac (VHT40)	80/73	80/73	79/71
Test Frequency (MHz)	5530	5610	
IEEE 802.11ac (VHT80)	80/70	80/70	

UNII-3			
Test Software	PCIE WLAN MP		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	83/76	83/76	83/75
IEEE 802.11n (HT20)	88/79	88/79	88/79
IEEE 802.11ac (VHT20)	81/71	81/71	81/71
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	80/77	80/77	
IEEE 802.11ac (VHT40)	80/73	80/73	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	80/70		

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
AE	Notebook	ACER	MS2367	32807810766

Item	Cable Type	Shielded Type	Ferrite Core	Length
C1	DC Cable	NO	NO	1m

3.6 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage
AC Power Line Conducted Emissions	25°C	53%	DC 5V
Radiated Emissions-9K-30MHz	25°C	60%	DC 5V
Radiated Emissions-30 MHz to 1GHz	24°C	68%	DC 5V
Radiated Emissions-Above 1000 MHz	24°C	68%	DC 5V
Spectrum Bandwidth	25.3°C	44.8%	DC 5V
Maximum Output Power	25.3°C	44.8%	DC 5V
Power Spectral Density	25.3°C	44.8%	DC 5V
Frequency Stability	Normal, Extreme	44.8%	Normal, Extreme

3.7 DUTY CYCLE

All tests were performed under the condition of 100% Duty Cycle

NOTE:

For IEEE 802.11a, IEEE 802.11n (HT20) and IEEE 802.11ac (VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).

4.AC POWER LINE CONDUCTED EMISSIONS TEST

4.1LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

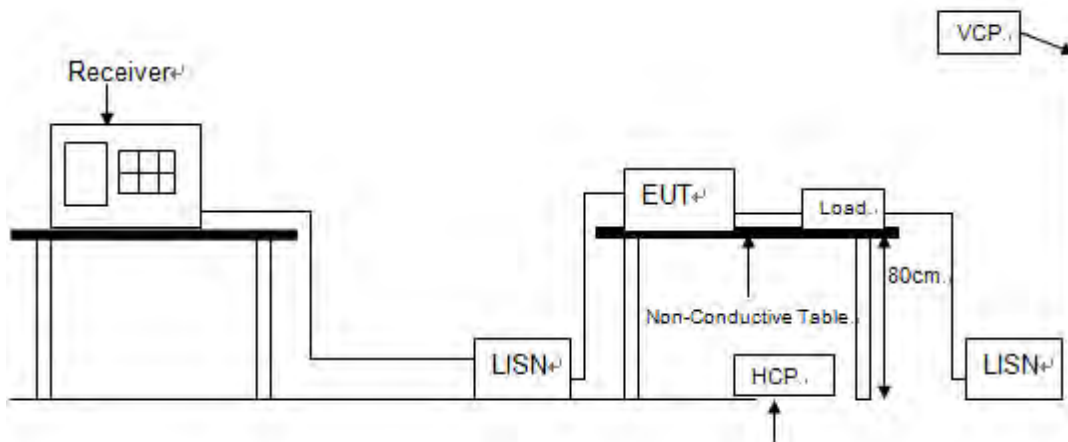
4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.

4.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Calibration Due Date
1	Pulse Limiter	MTS-systemtechnik	MTS-IMP-136	261115-010-0024	12/12/2021	12/11/2022
2	EMI Test Receiver	R&S	ESCI	101308	12/12/2021	12/11/2022
3	LISN	AFJ	LS16	16011103219	06/09/2022	06/08/2023
4	LISN	Schwarzbeck	NSLK 8127	8127-432	12/11/2021	12/10/2022
5	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A	N/A

4.4TESTSETUP



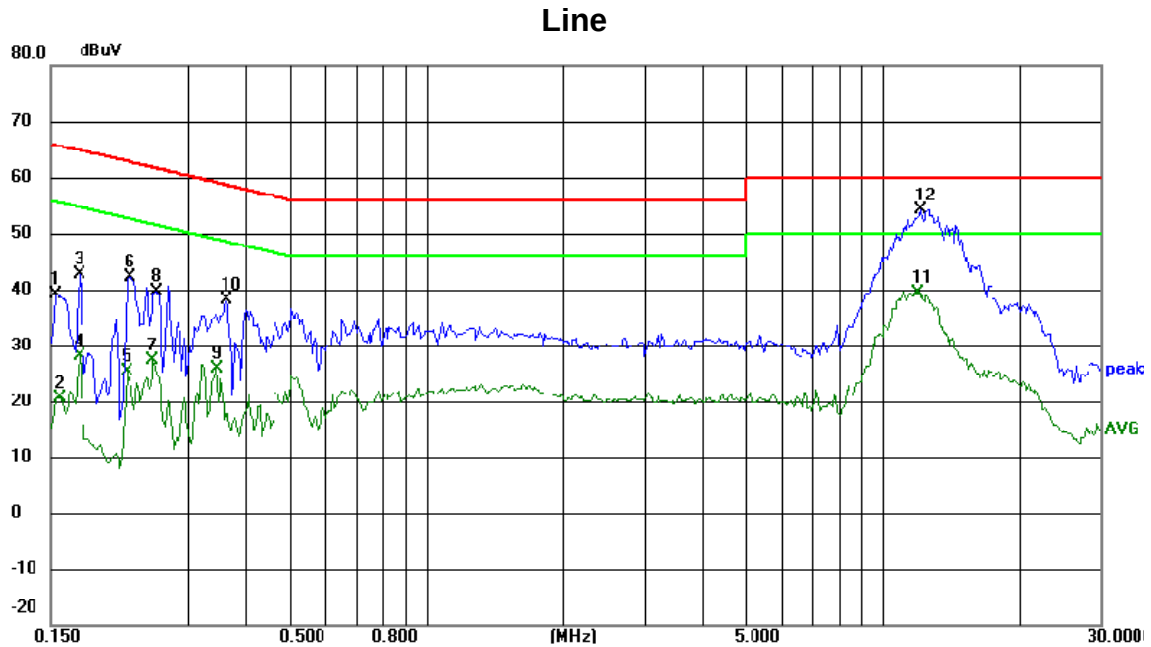
4.5EUT OPERATION CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX mode.

4.6 TEST RESULTS

Test Mode: TX N(HT40) Mode / CH159 (UNII-3)



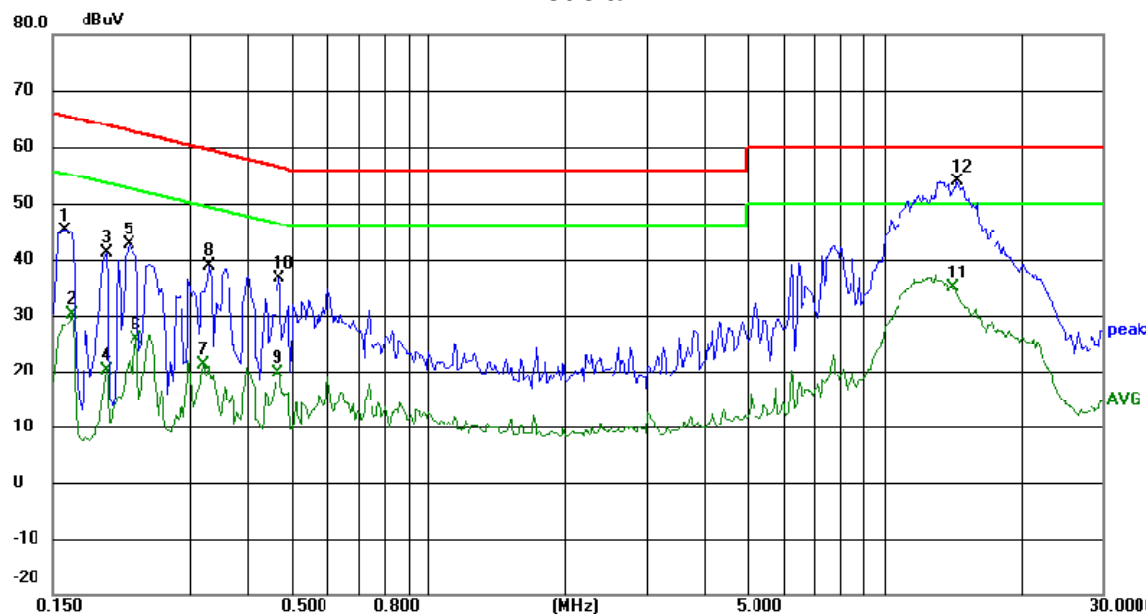
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	29.42	9.78	39.20	65.79	-26.59	peak	P
2	0.1577	10.83	9.78	20.61	55.58	-34.97	AVG	P
3	0.1733	32.89	9.77	42.66	64.80	-22.14	peak	P
4	0.1733	18.39	9.77	28.16	54.80	-26.64	AVG	P
5	0.2202	15.52	9.75	25.27	52.81	-27.54	AVG	P
6	0.2240	32.48	9.75	42.23	62.67	-20.44	peak	P
7	0.2514	17.62	9.75	27.37	51.71	-24.34	AVG	P
8	0.2553	29.86	9.75	39.61	61.58	-21.97	peak	P
9	0.3449	16.23	9.76	25.99	49.08	-23.09	AVG	P
10	0.3644	28.29	9.76	38.05	58.63	-20.58	peak	P
11	11.9855	17.25	22.24	39.49	50.00	-10.51	AVG	P
12 *	12.0791	31.92	22.33	54.25	60.00	-5.75	peak	P

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N(HT40) Mode / CH159 (UNII-3)

Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1590	35.32	9.78	45.10	65.52	-20.42	peak	P
2	0.1655	20.33	9.77	30.10	55.18	-25.08	AVG	P
3	0.1968	31.30	9.75	41.05	63.74	-22.69	peak	P
4	0.1968	10.40	9.75	20.15	53.74	-33.59	AVG	P
5	0.2202	32.90	9.75	42.65	62.81	-20.16	peak	P
6	0.2280	15.86	9.75	25.61	52.52	-26.91	AVG	P
7	0.3215	11.34	9.76	21.10	49.67	-28.57	AVG	P
8	0.3294	29.12	9.76	38.88	59.47	-20.59	peak	P
9	0.4658	9.88	9.77	19.65	46.59	-26.94	AVG	P
10	0.4697	26.88	9.77	36.65	56.52	-19.87	peak	P
11	14.0628	10.38	24.40	34.78	50.00	-15.22	AVG	P
12 *	14.3996	29.01	24.75	53.76	60.00	-6.24	peak	P

Remarks:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

5. RADIATED EMISSIONSTEST

5.1LIMIT

In case the emission fall within the restricted band specified on 15.205(a)&RSS-Gen 8.10, then the 15.209(a)&RSS-Gen 8.9 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000MHz)

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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 Note(2)	68.3
	10 Note(2)	105.3
	15.6 Note(2)	110.9
	27 Note(2)	122.3

Note:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field

strength: $E = \frac{1000000\sqrt{30F}}{3} \mu\text{V/m}$, where P is the eirp (Watts)

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below theband edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above orbelow the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

(3) Radiation larger than 26.5GHz is background, so the following data only measures the maximum 26.5GHz

(4) Duty Cycle compensation less than 98% has been compensated in the test software prior to the implementation of the test

5.2 TEST PROCEDURE

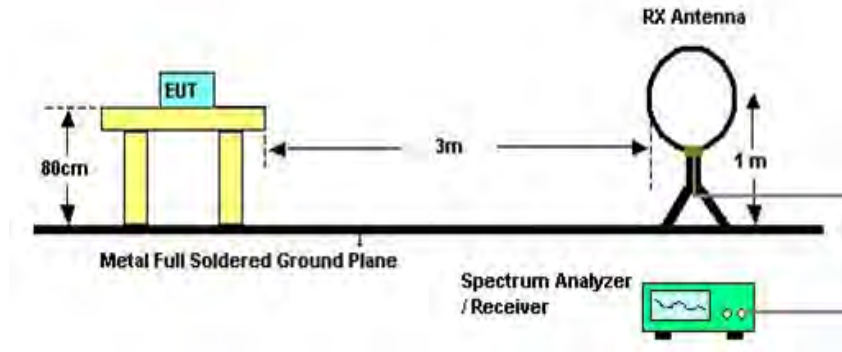
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. The test result is calculated as the following:
 - (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
 - (3) Margin = Result - Limit

5.3 MEASUREMENT INSTRUMENTS LIST

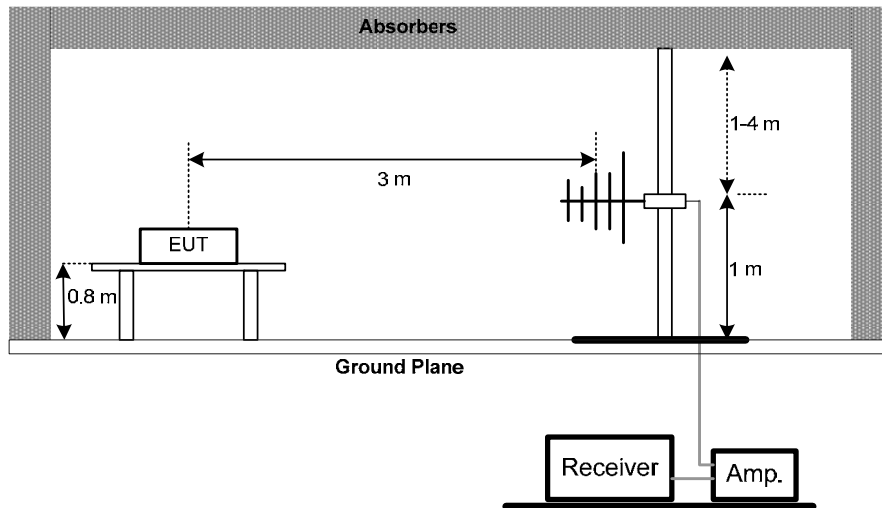
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	101307	12/12/2021	12/11/2022
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/17/2021	11/16/2022
3	Loop antenna	SCHWARZBECK K	FMZB1519	1519-062	12/14/2021	12/13/2022
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	08/06/2021	08/05/2022
4*	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	08/05/2022	08/04/2023
5	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	04/21/2022	04/20/2023
6	Preamplifier Amplifier	HP	8447F	3113A05680	12/11/2021	12/10/2022
7	PRE-AMPLIFIER	CY	EMC011830	980136	12/11/2021	12/10/2022
8	RF Cable	R&S	Test Cable 4	4	12/11/2021	12/10/2022
9	RF Cable	R&S	Test Cable 5	5	12/11/2021	12/10/2022
10	RF Cable	R&S	Test Cable 9	9	04/21/2022	04/20/2023
11	RF Cable	R&S	Test Cable 10	10	12/11/2021	12/10/2022
12	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A	N/A

5.4 TEST SETUP

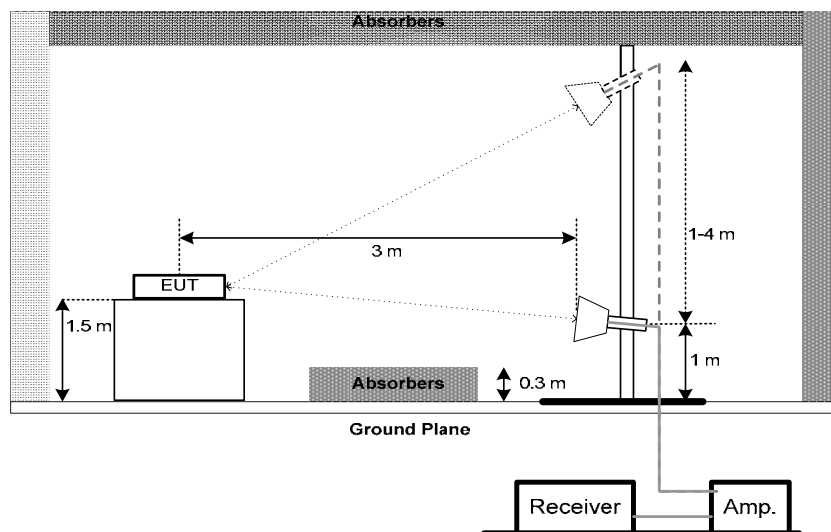
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 KHZ to 30MHZ

Test Mode:	TX N(HT40) Mode / CH159 (UNII-3)
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Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

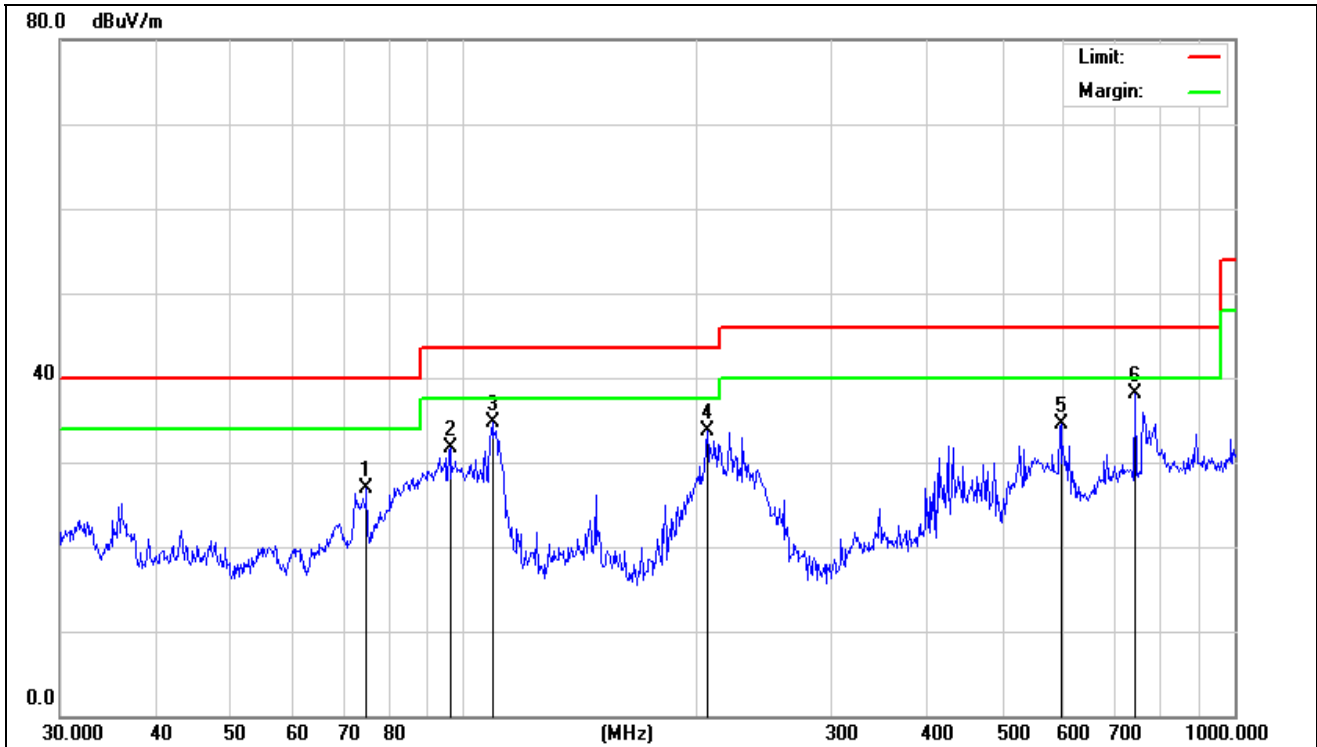
Distance extrapolation factor = $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor

5.7 TEST RESULTS - 30 MHz TO 1000 MHz

Test Mode: TX N(HT40) Mode / CH159 (UNII-3)

Vertical

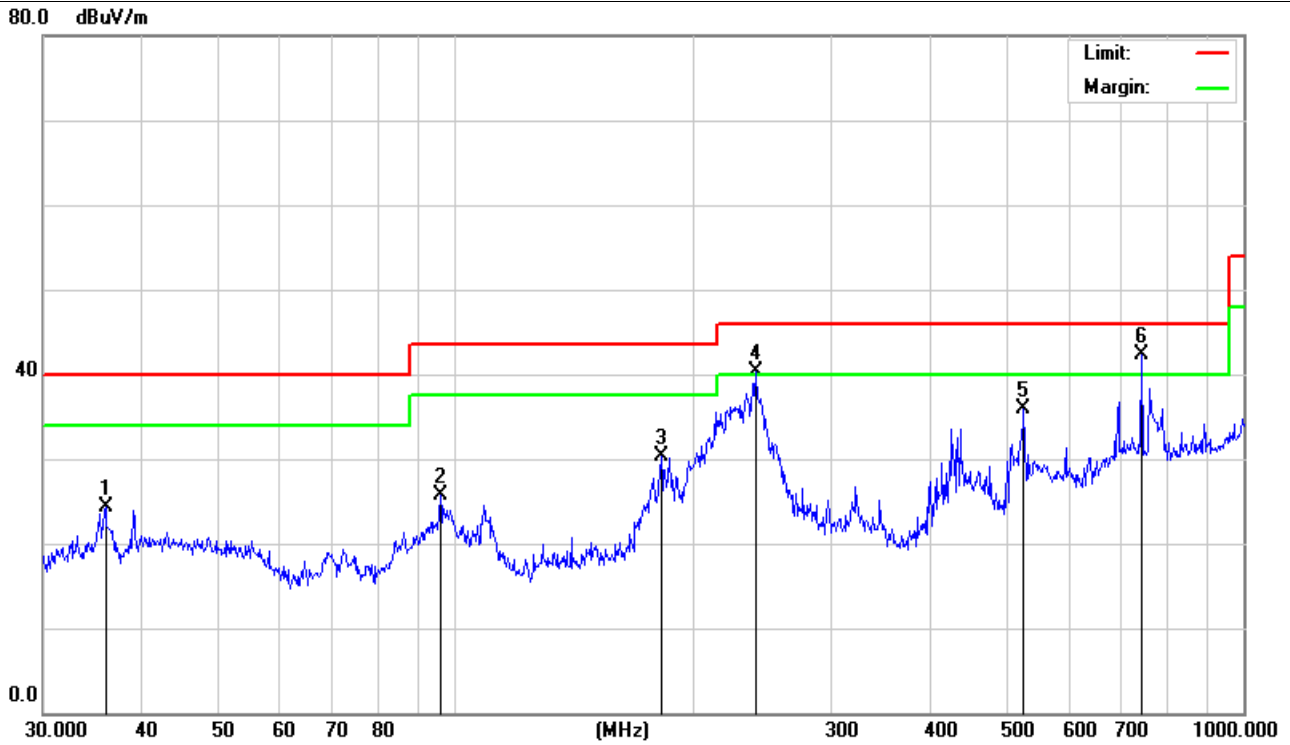


Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		74.9191	37.25	-10.30	26.95	40.00	-13.05	peak
2		96.0986	41.10	-9.48	31.62	43.50	-11.88	peak
3		109.0286	42.29	-7.67	34.62	43.50	-8.88	peak
4		207.1226	38.34	-4.69	33.65	43.50	-9.85	peak
5		595.1329	31.81	2.75	34.56	46.00	-11.44	peak
6	*	742.2587	32.92	5.14	38.06	46.00	-7.94	peak

Test Mode: TX N(HT40) Mode / CH159 (UNII-3)

Horizontal



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

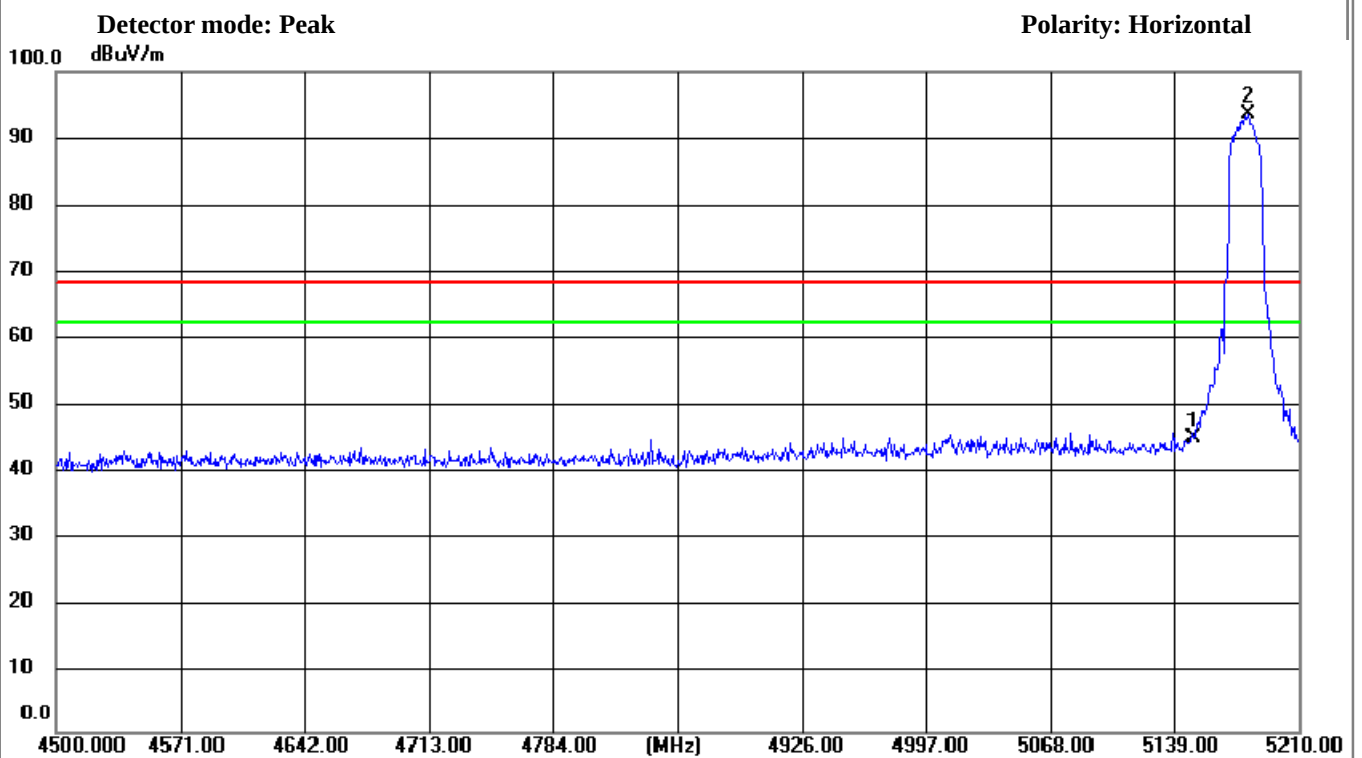
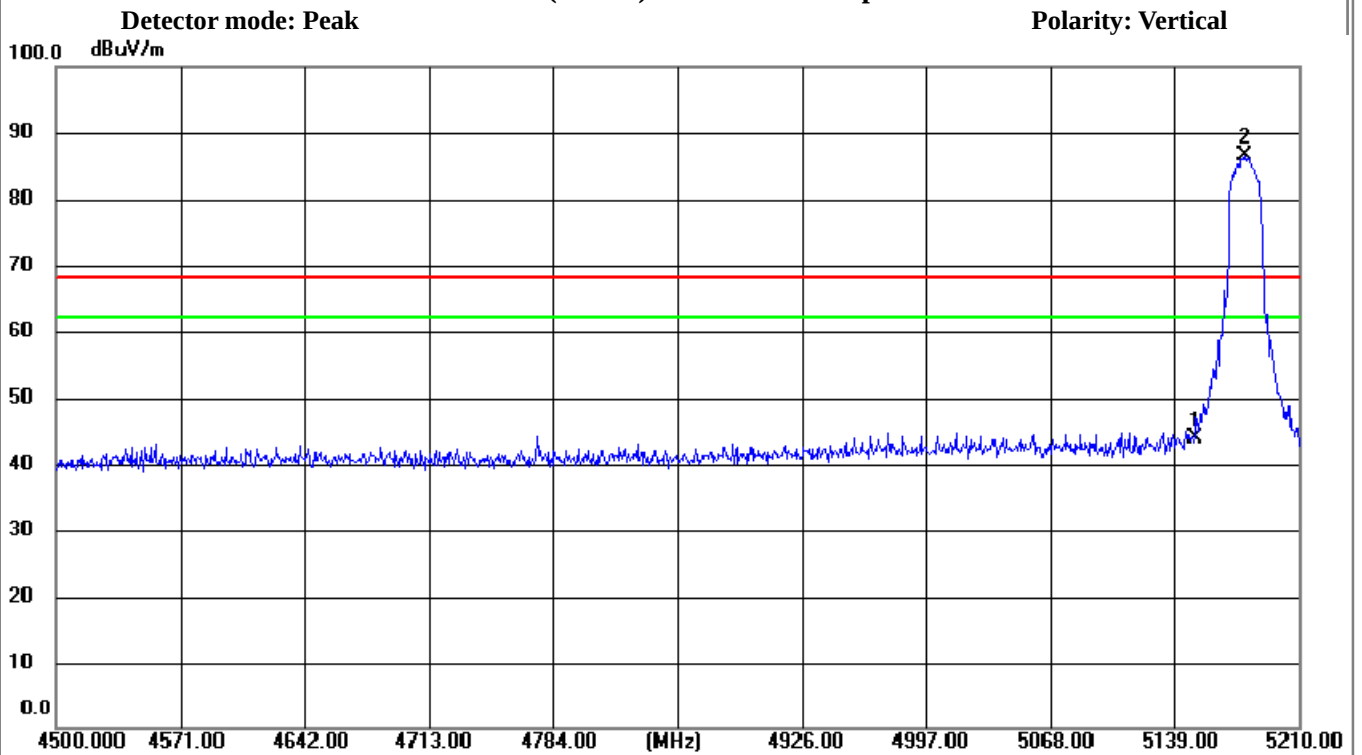
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		36.0007	27.71	-3.45	24.26	40.00	-15.74	peak
2		95.7622	34.04	-8.33	25.71	43.50	-17.79	peak
3		182.5592	35.56	-5.33	30.23	43.50	-13.27	peak
4	!	240.8304	46.73	-6.51	40.22	46.00	-5.78	peak
5		526.3967	32.24	3.65	35.89	46.00	-10.11	peak
6	*	742.2587	35.38	7.00	42.38	46.00	-3.62	peak

5.8 TEST RESULTS - ABOVE 1000 MHz (BAND EDGE)

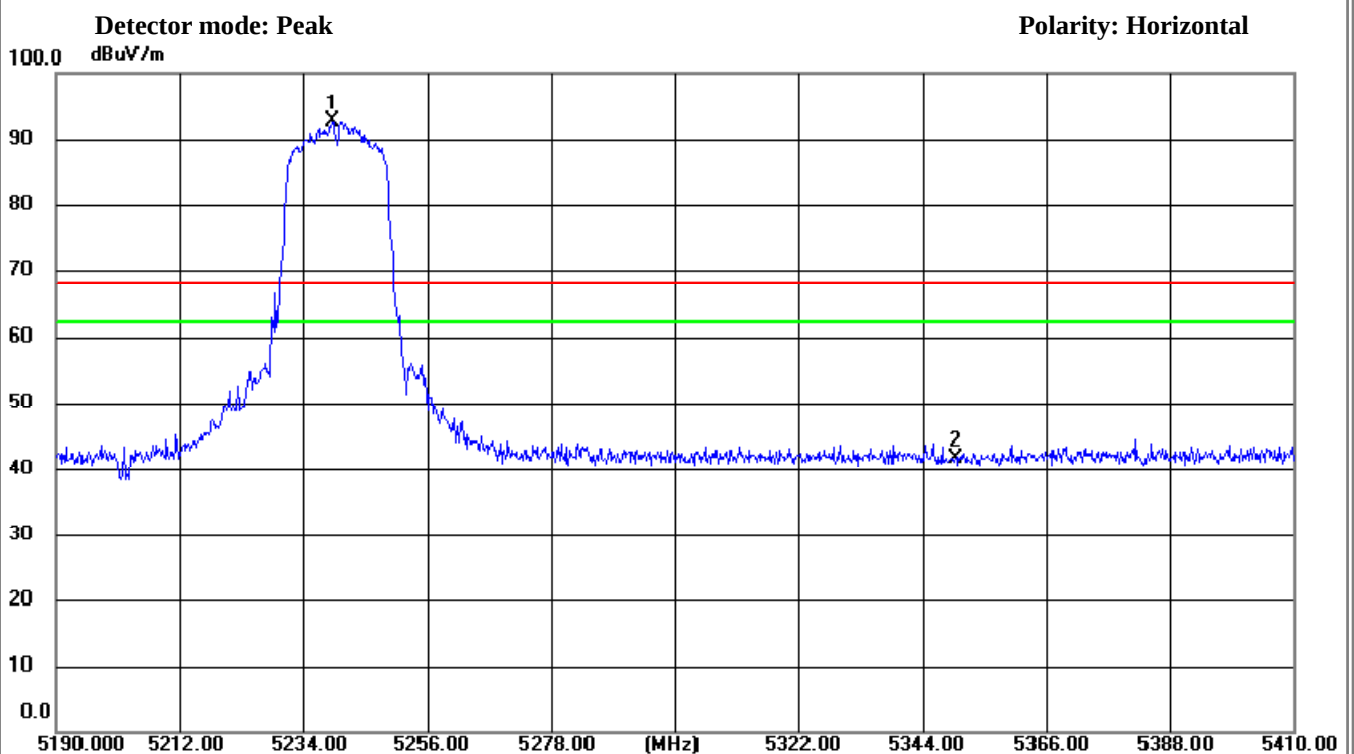
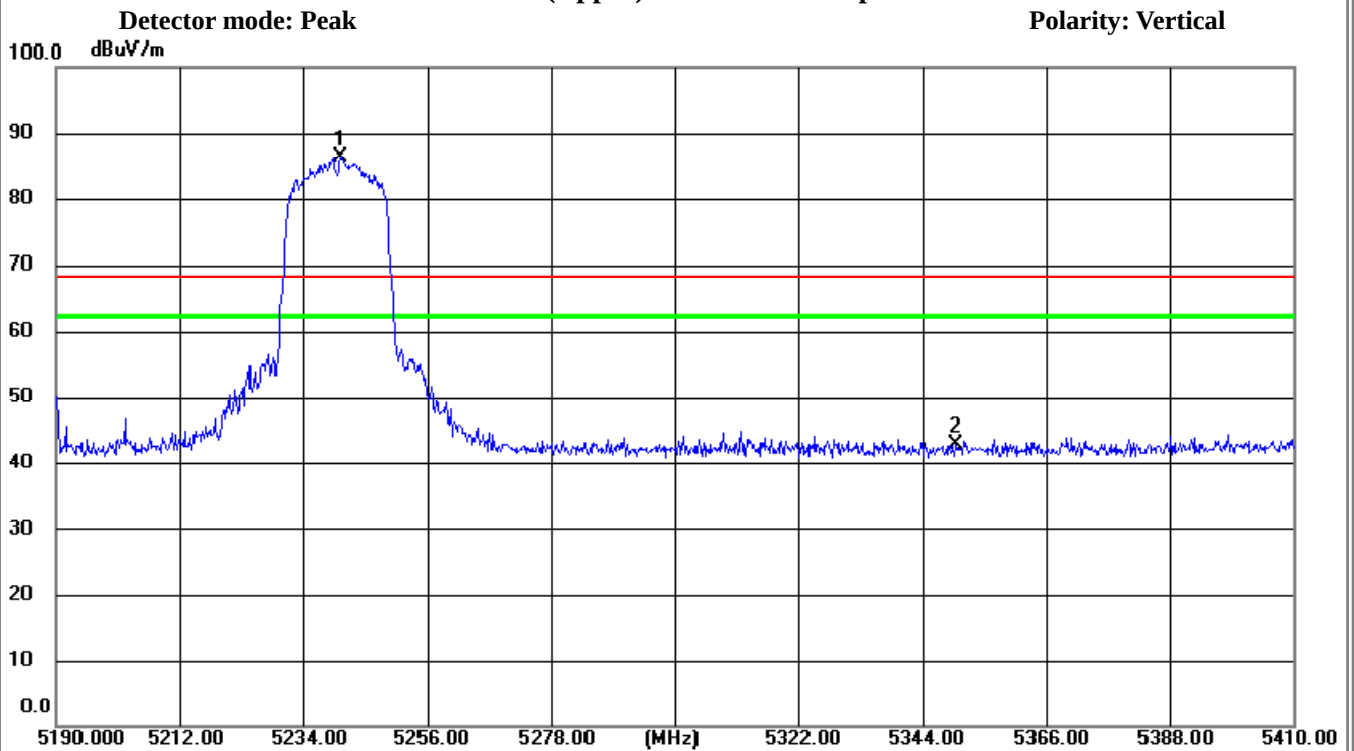
Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode

Freq. (MHz) (Peak)	Ant. Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.00	V	39.08	4.78	43.86	68.20	CH36
5179.12	V	81.9	4.69	---	---	CH36
5150.00	H	39.73	4.78	44.51	68.20	CH36
5180.89	H	89.02	4.68	---	---	CH36
5240.71	V	81.83	4.53	---	---	CH48
5350.00	V	38.56	4.30	42.86	68.20	CH48
5239.17	H	88.15	4.53	---	---	CH48
5350.00	H	37.21	4.30	41.51	68.20	CH48

802.11a (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 6Mbps



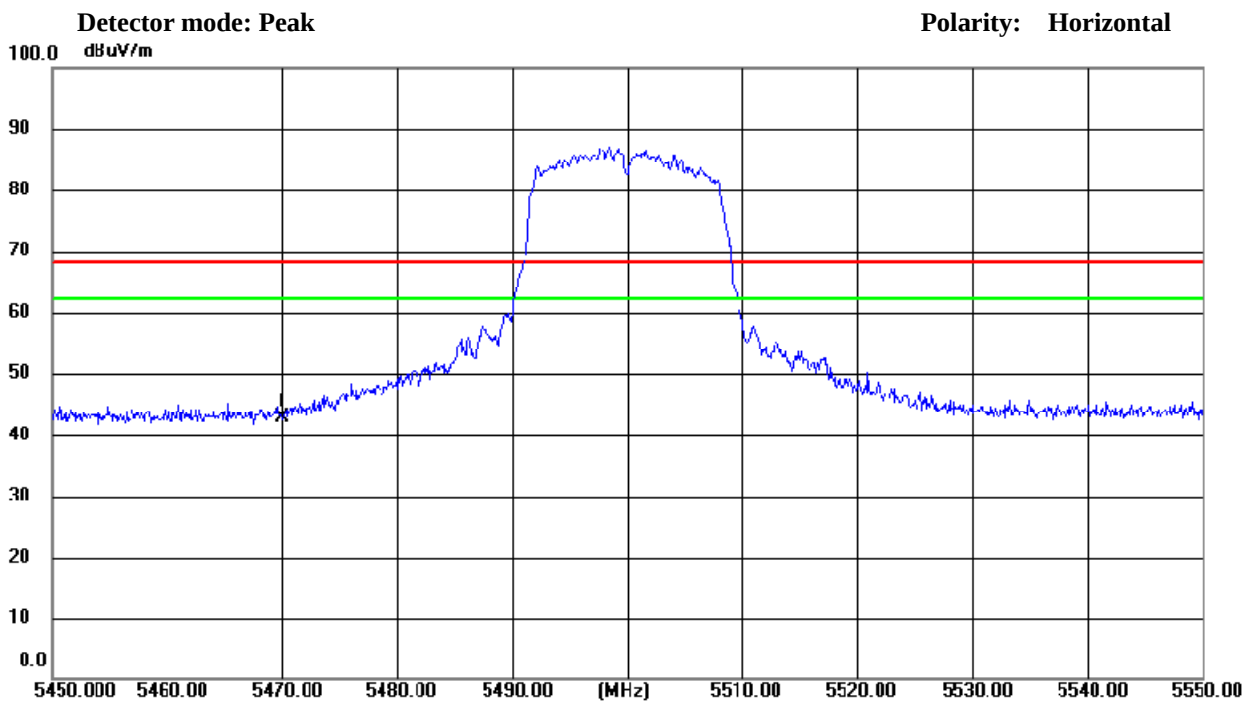
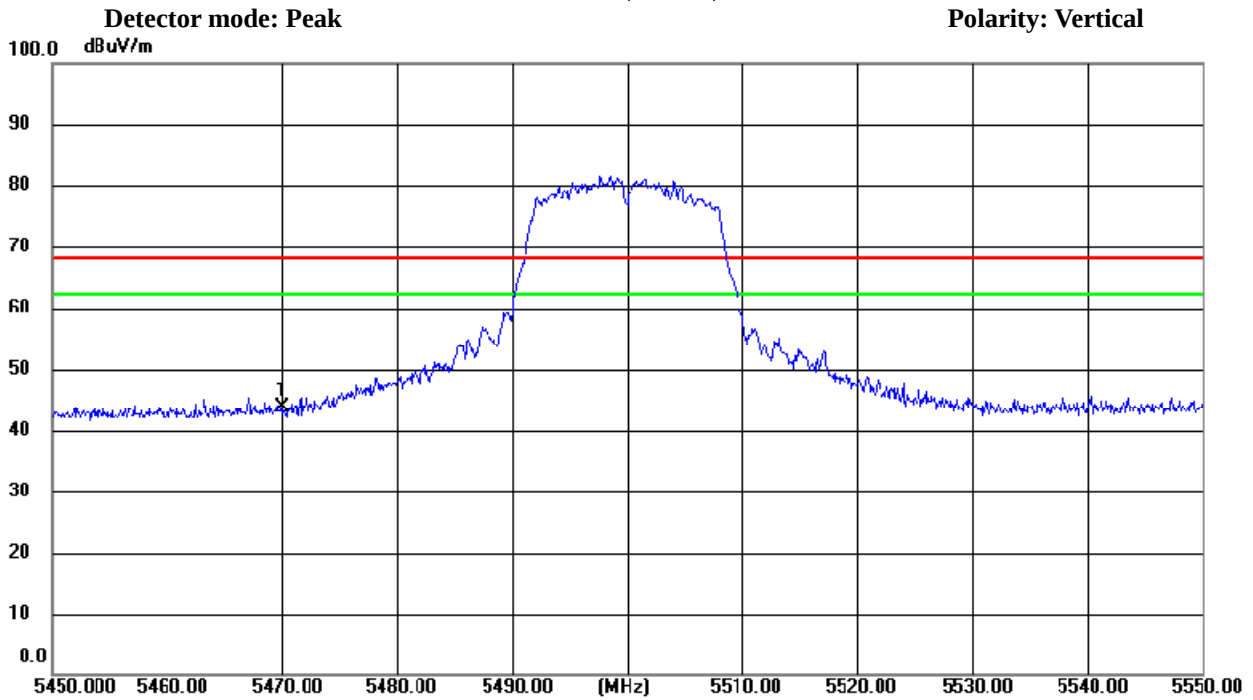
802.11a (5.15GHz-5.25GHz)
CH 48 (Upper) Data rate 6Mbps



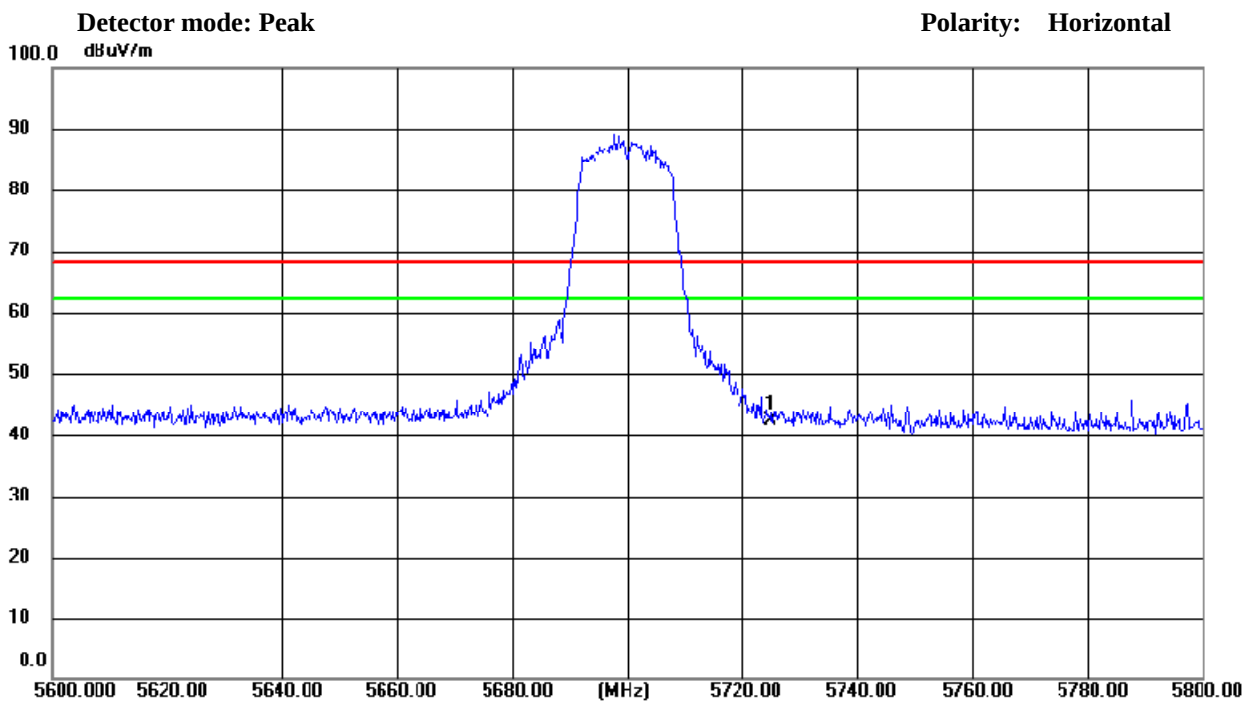
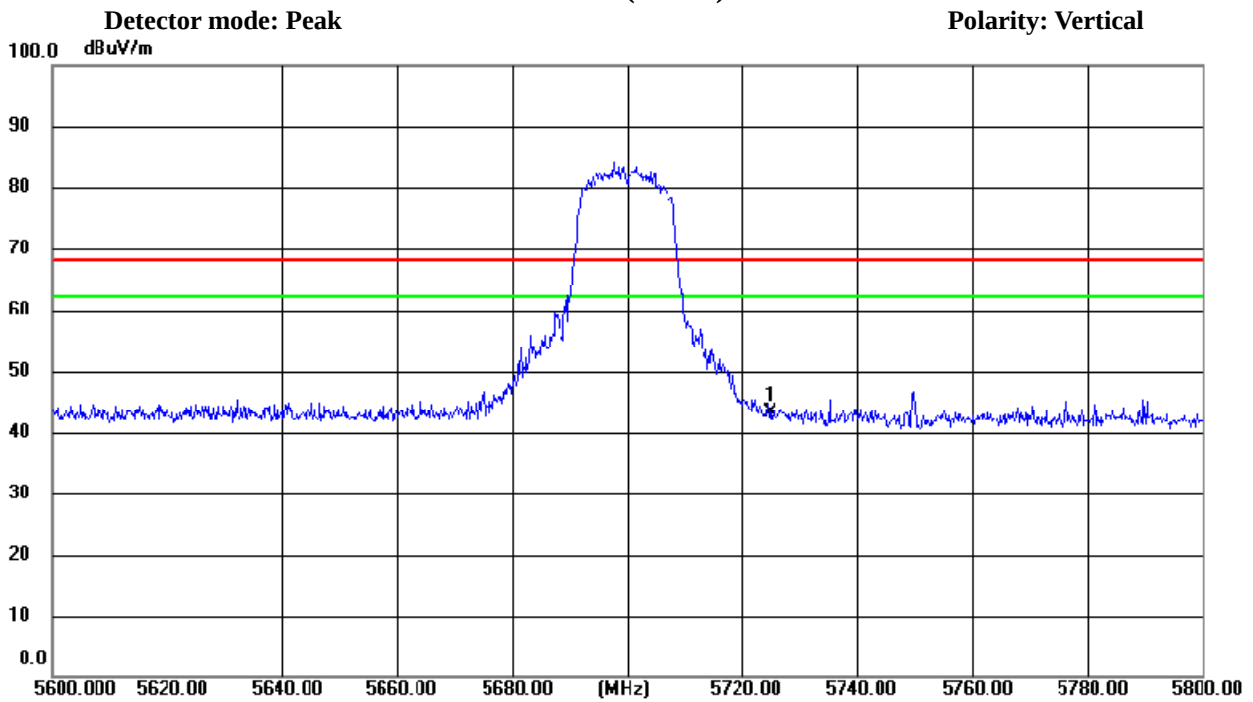
Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5470.000	V	39.95	3.96	43.91	68.20	CH 100
5470.000	H	38.99	3.96	42.95	68.20	CH 100
5725.000	V	39.36	3.95	43.31	68.20	CH 140
5725.000	H	38.45	3.95	42.40	68.20	CH 140

802.11a (5.47GHz-5.725GHz) CH 100(Lower)



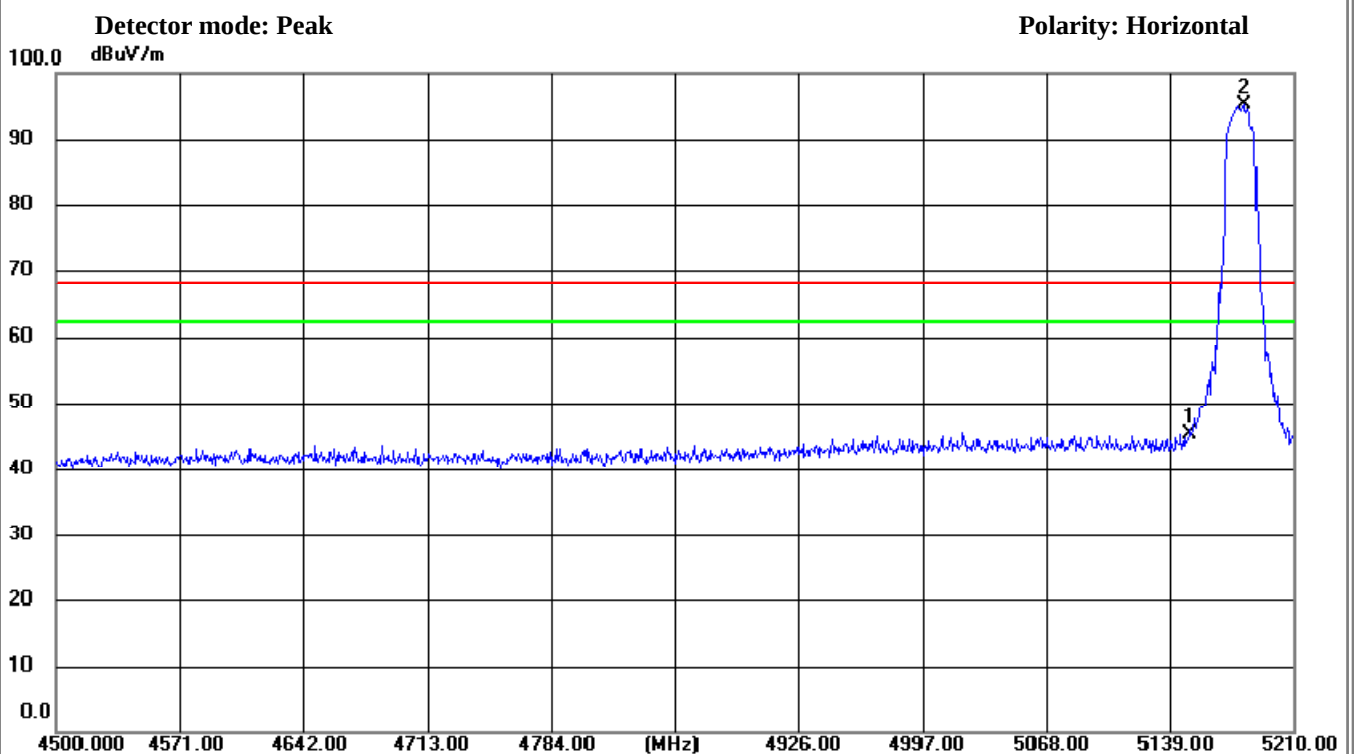
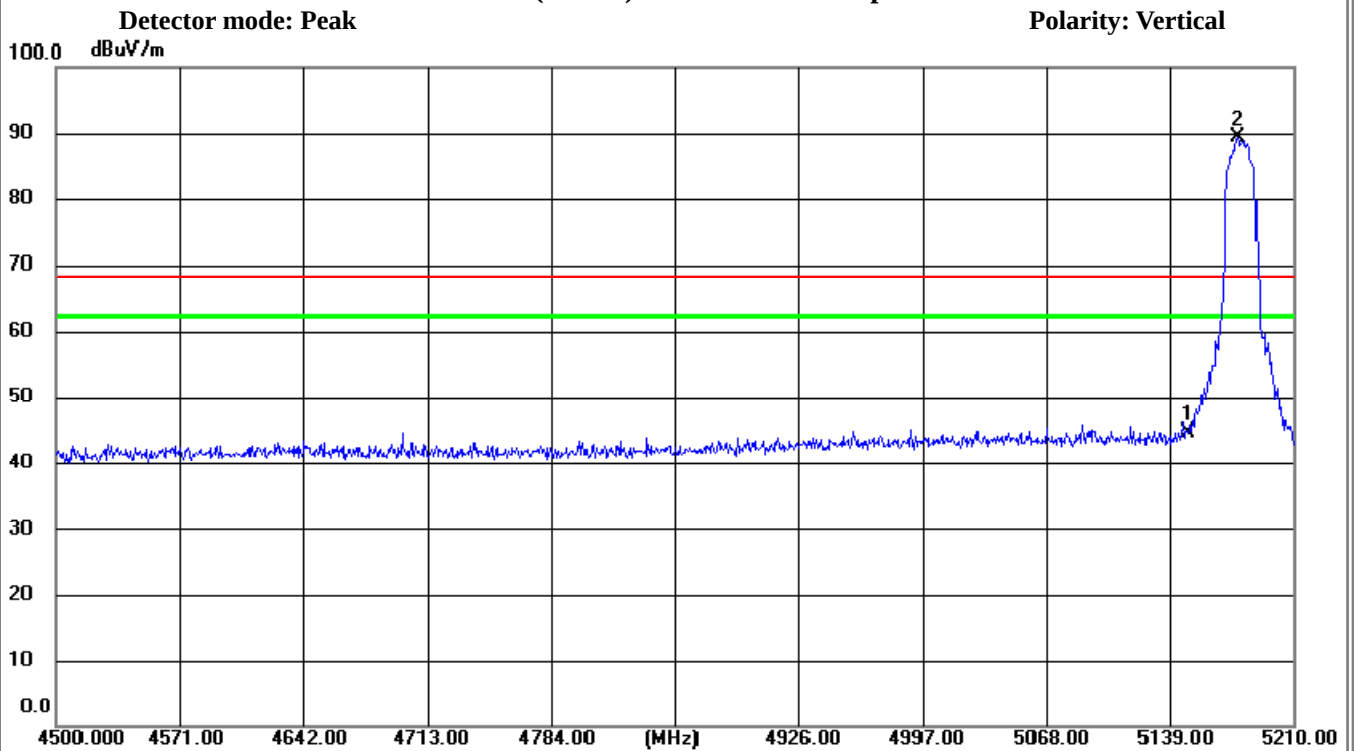
802.11a (5.47GHz-5.725GHz) CH 140 (Lower)



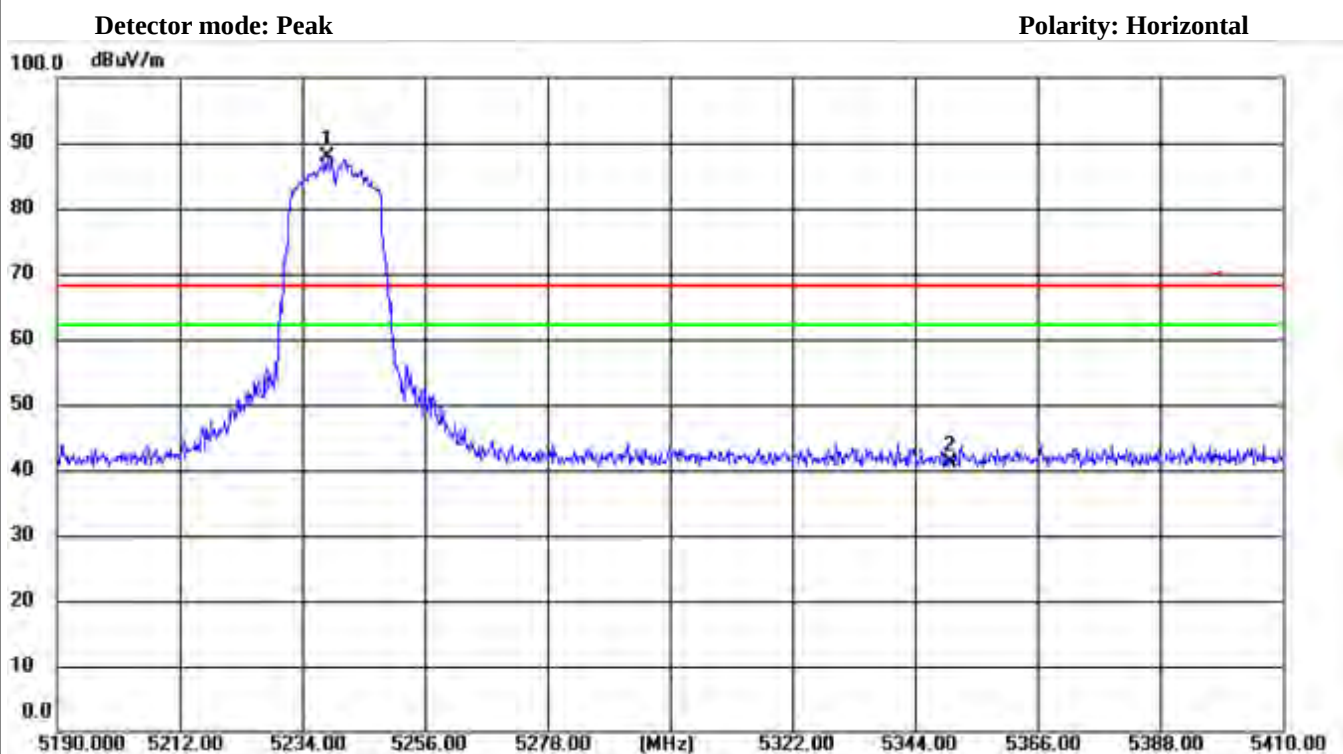
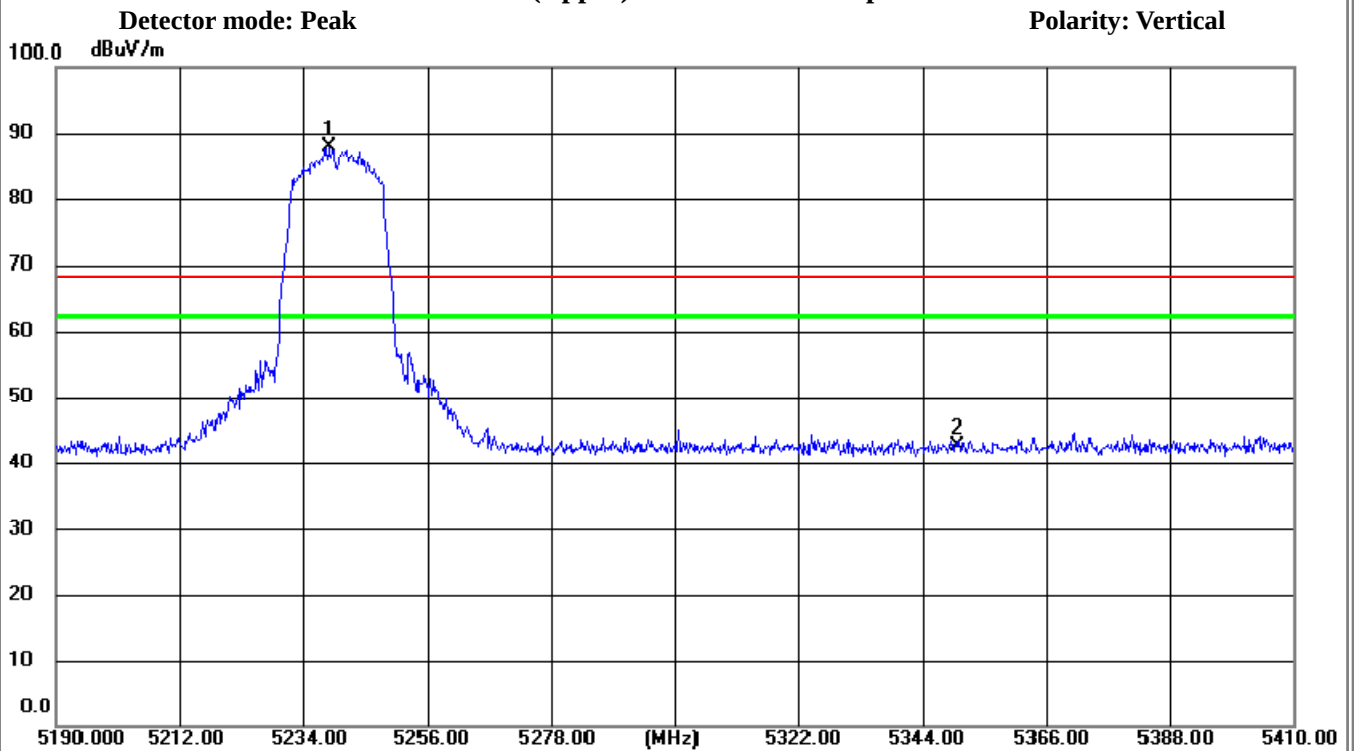
Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20)

Freq. (MHz) (Peak)	Ant.Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.00	V	39.95	4.78	44.73	68.20	CH36
5178.05	V	84.6	4.70	---	---	CH36
5150.00	V	40.36	4.78	45.14	68.20	CH36
5181.60	V	90.37	4.71	---	---	CH36
5238.510	V	83.4	4.54	---	---	CH48
5350.00	V	38.31	4.30	42.61	68.20	CH48
5238.51	H	83.28	4.53	---	---	CH48
5350.00	H	36.8	4.30	41.10	68.20	CH48

802.11n(20M) (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 7.2Mbps



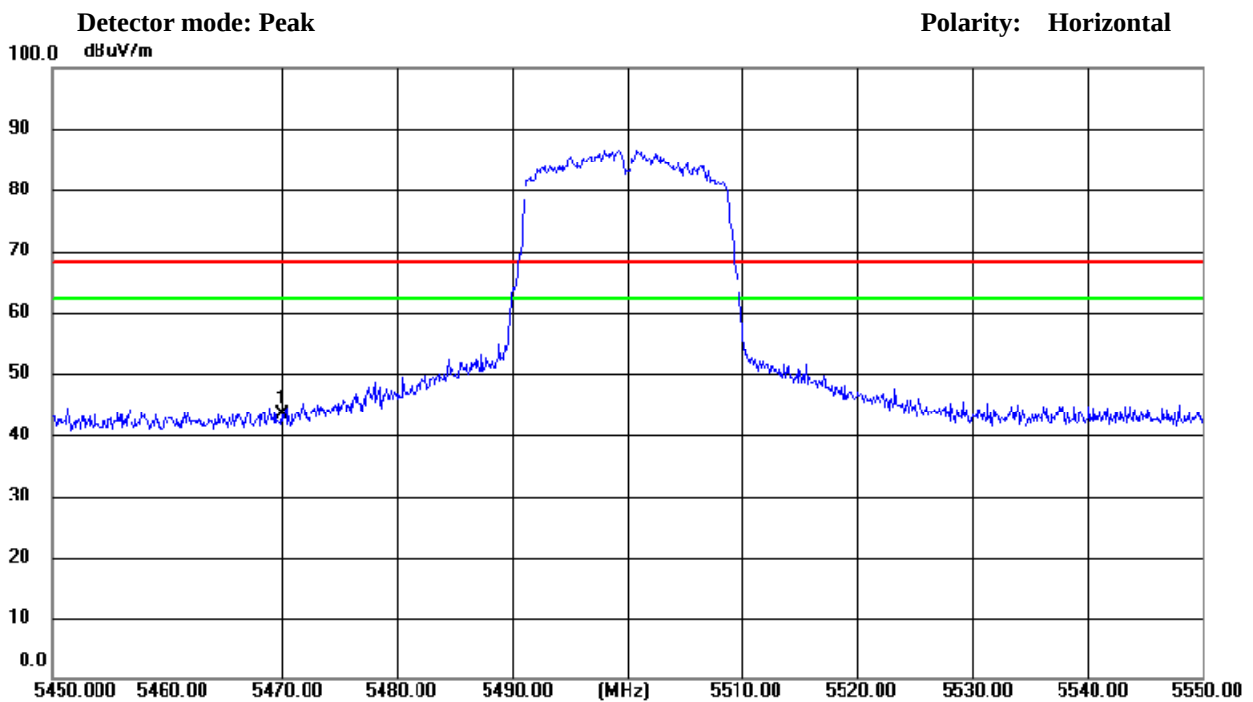
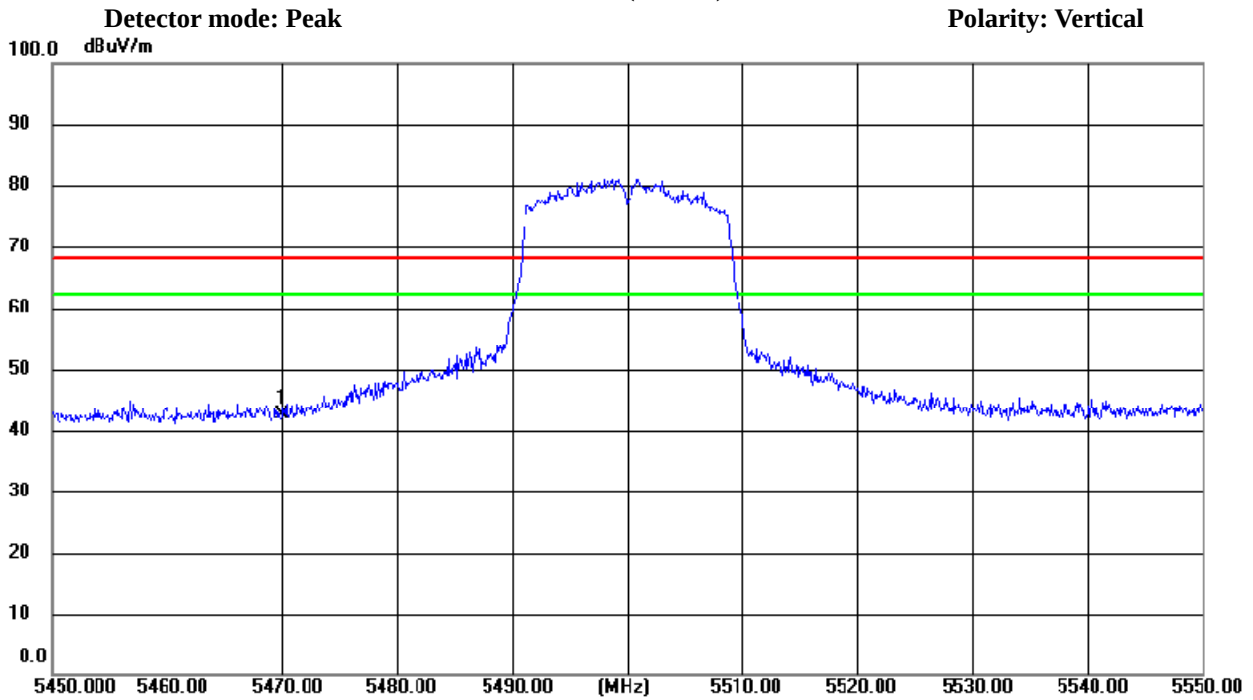
802.11n(20M) (5.15GHz-5.25GHz)
CH 48(Upper) Data rate 7.2Mbps



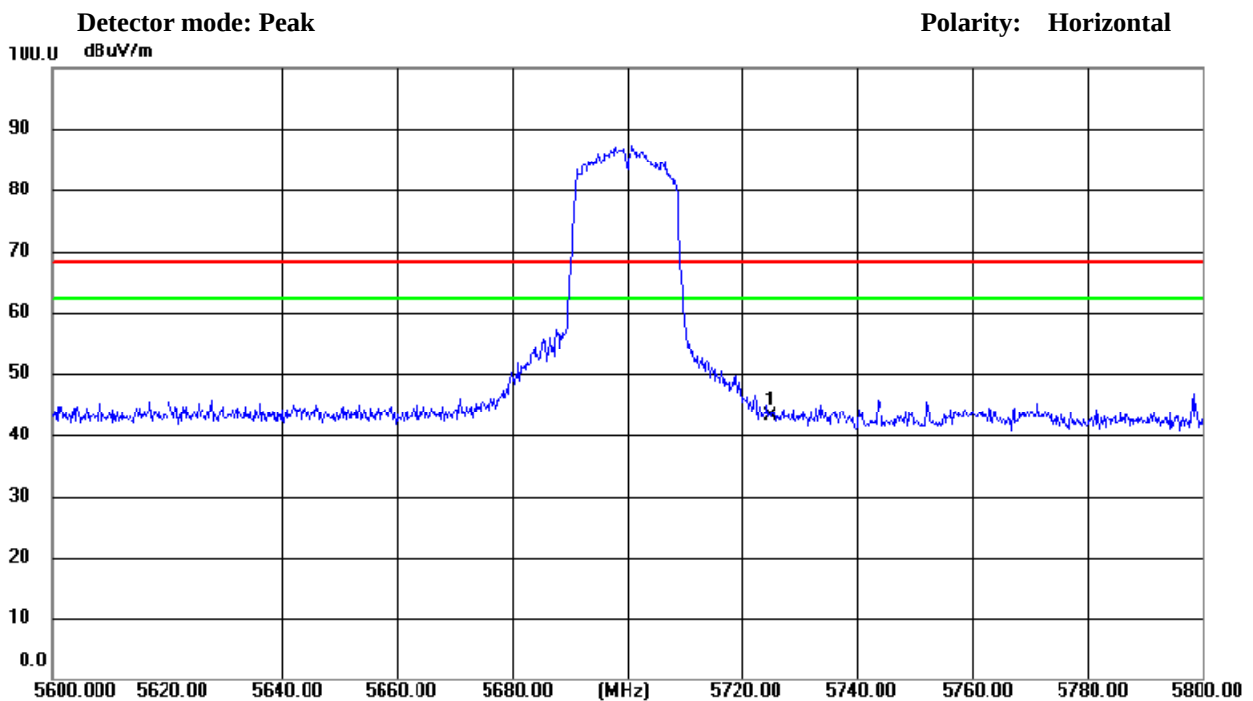
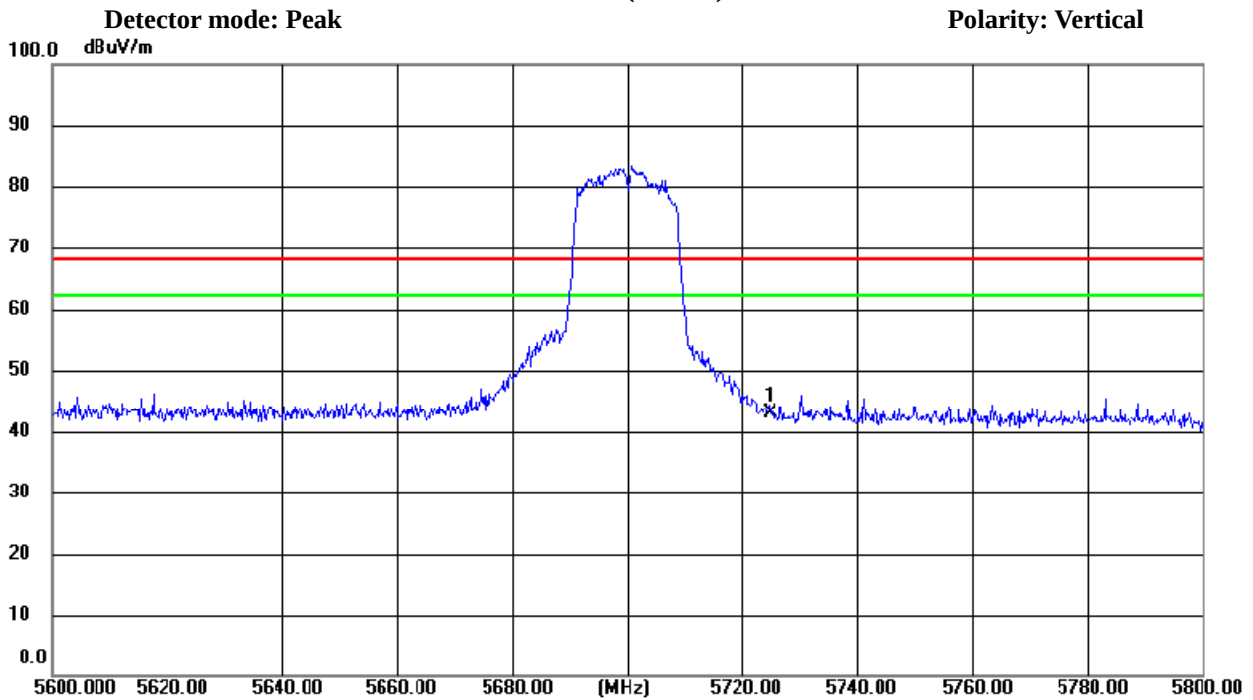
Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5470.000	V	38.64	3.96	42.60	68.20	CH 100
5470.000	H	39.47	3.96	43.43	68.20	CH 100
5725.000	V	39.24	3.95	43.19	68.20	CH 140
5725.000	H	39.13	3.95	43.08	68.20	CH 140

802.11n(20M) (5.47GHz-5.725GHz)
CH 100 (Lower)



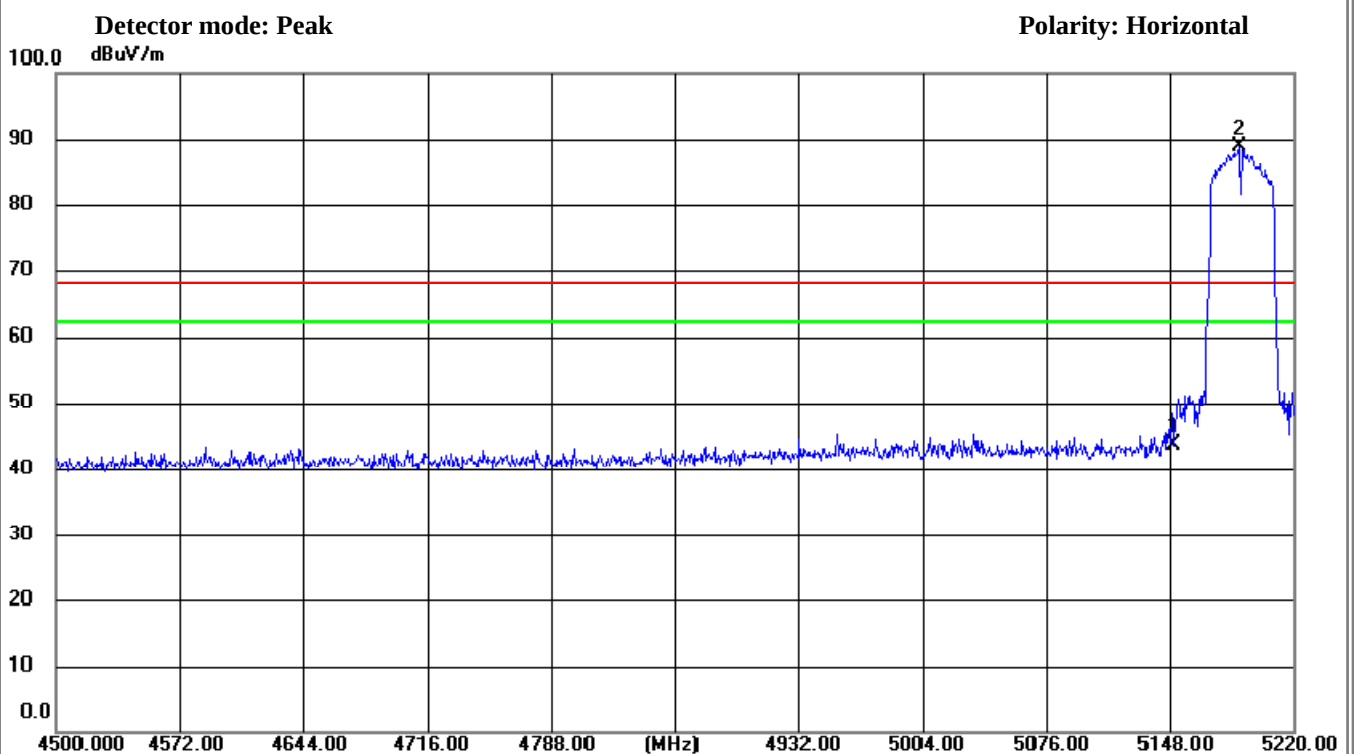
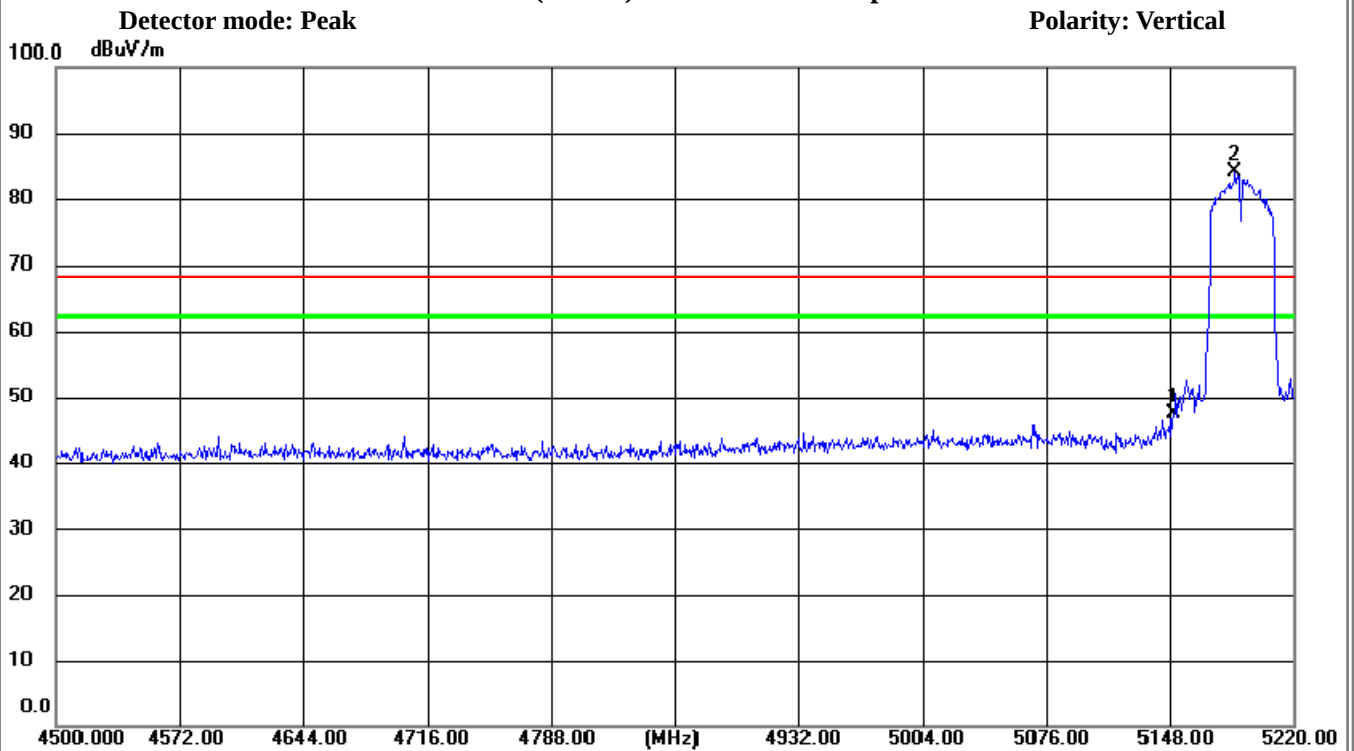
802.11n(20M) (5.47GHz-5.725GHz) CH 140 (Lower)



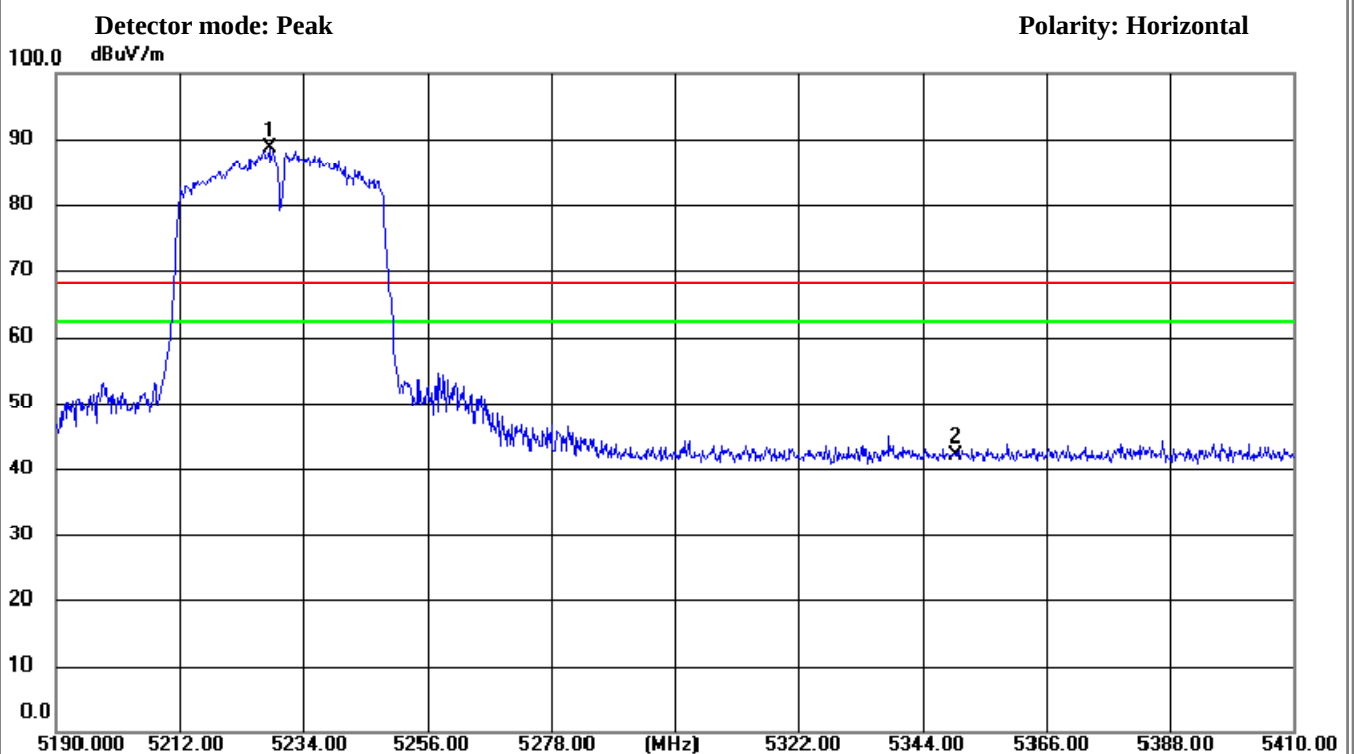
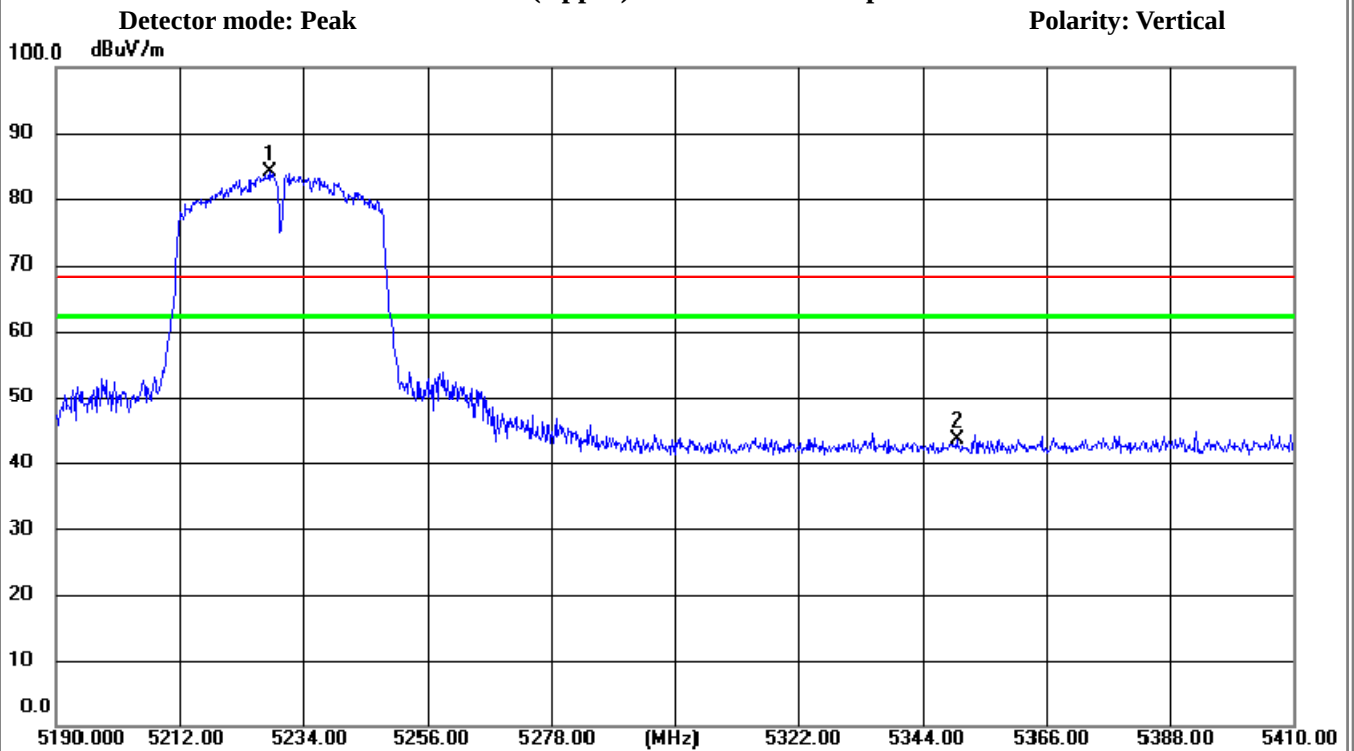
Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40)

Freq. (MHz) (Peak)	Ant.Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.00	V	42.7	4.78	47.48	68.20	CH38
5186.52	V	79.43	4.66	---	---	CH38
5150.00	H	38.96	4.78	43.74	68.20	CH38
5188.68	H	84.11	4.66	---	---	CH38
5227.84	V	79.51	4.56	---	---	CH46
5350.00	V	39.41	4.30	43.71	68.20	CH46
5227.84	H	83.98	4.56	---	---	CH46
5350.00	H	37.83	4.30	42.13	68.20	CH46

802.11n(40M) (5.15GHz-5.25GHz)
CH 38 (Lower) Data rate 7.2Mbps



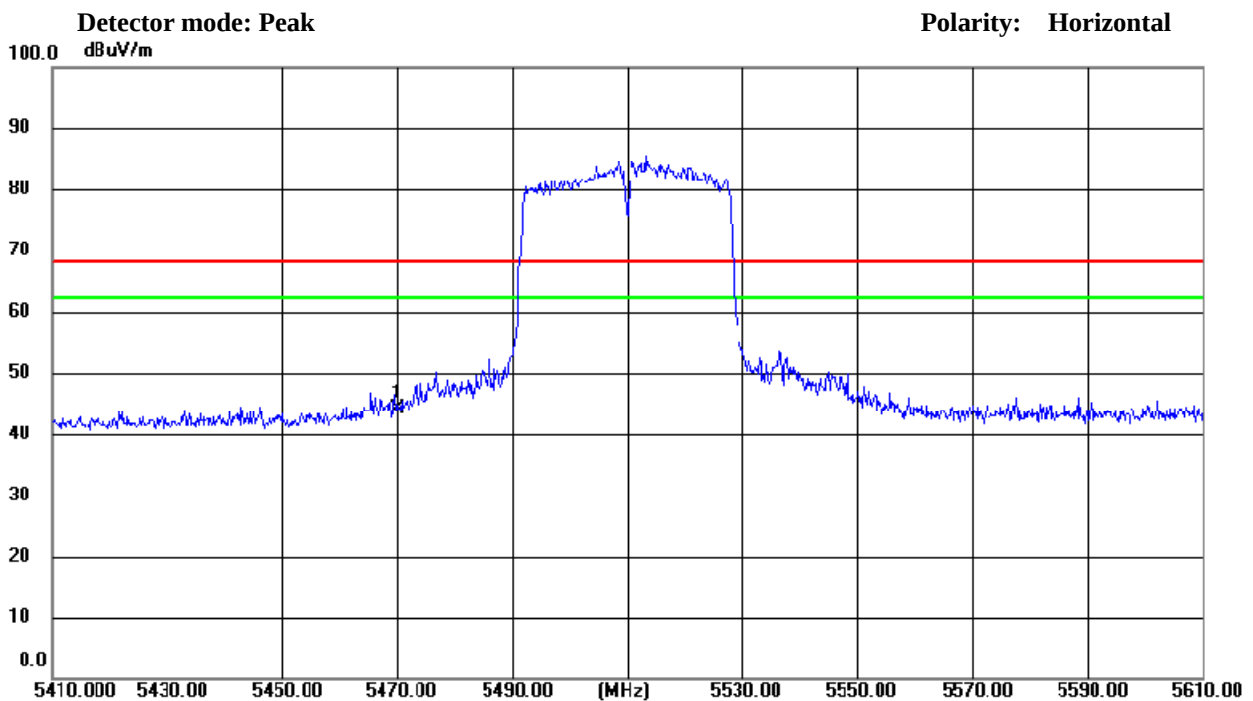
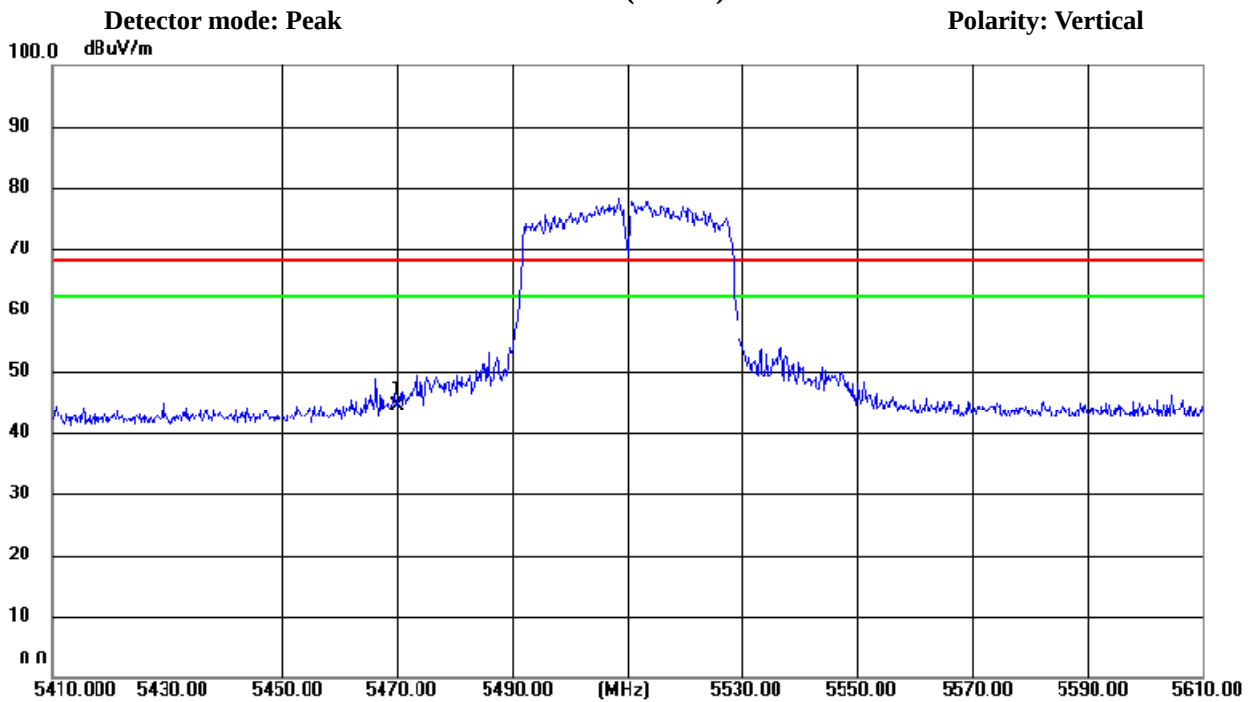
802.11n(40M) (5.15GHz-5.25GHz)
CH 46(Upper) Data rate 7.2Mbps



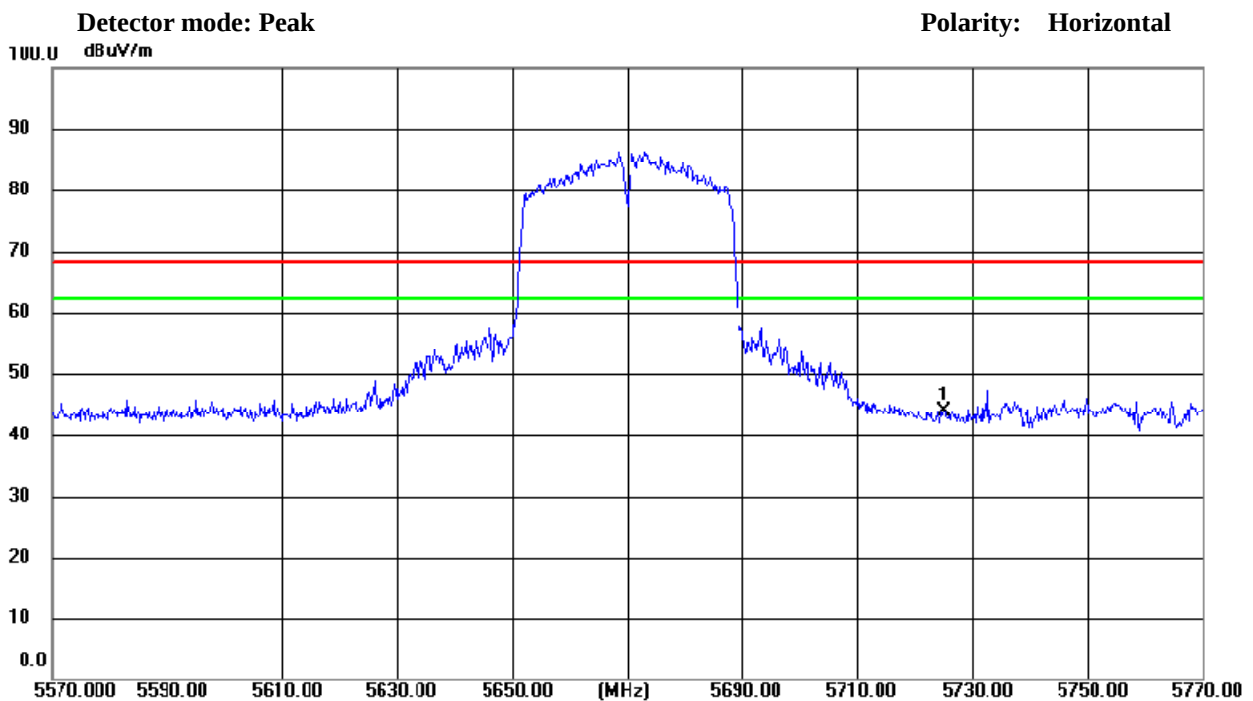
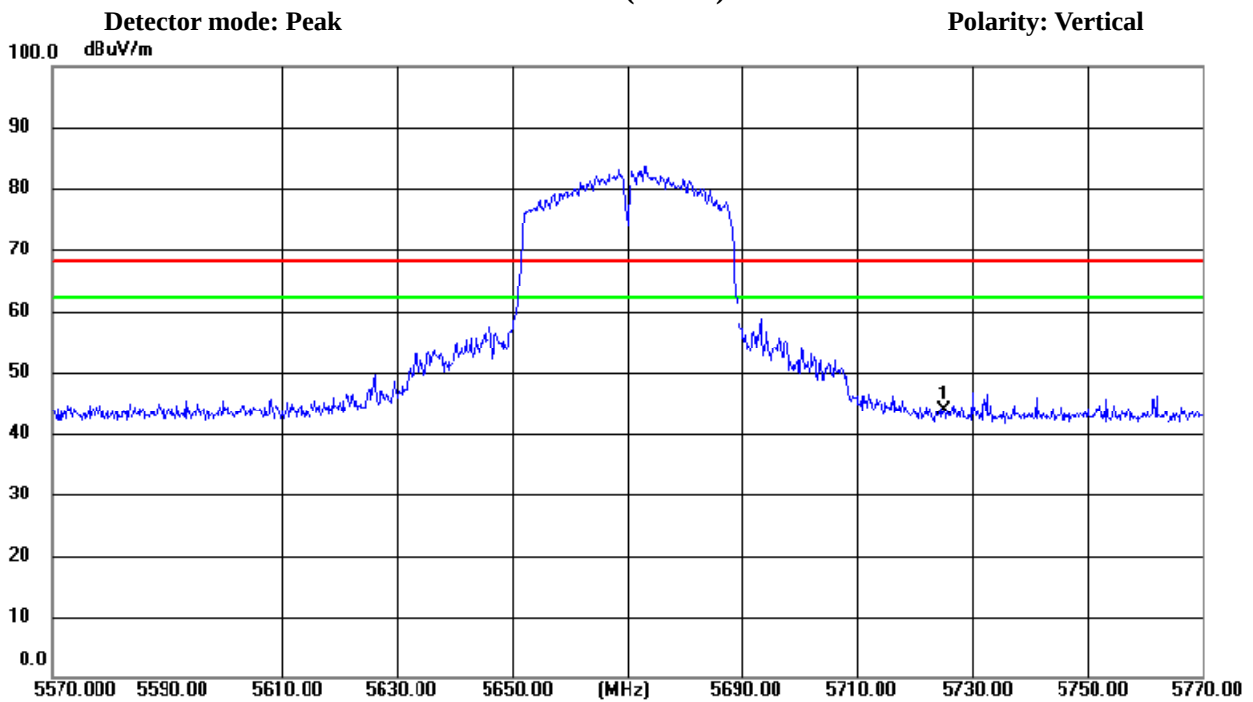
Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40)

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5470.000	V	40.47	3.96	44.43	68.20	CH 102
5470.000	H	40.29	3.96	44.25	68.20	CH 102
5725.000	V	39.88	3.95	43.83	68.20	CH 134
5725.000	H	39.97	3.95	43.92	68.20	CH 134

802.11n(40M) (5.47GHz-5.725GHz)
CH 102 (Lower)



802.11n(40M) (5.47GHz-5.725GHz) CH 134 (Lower)

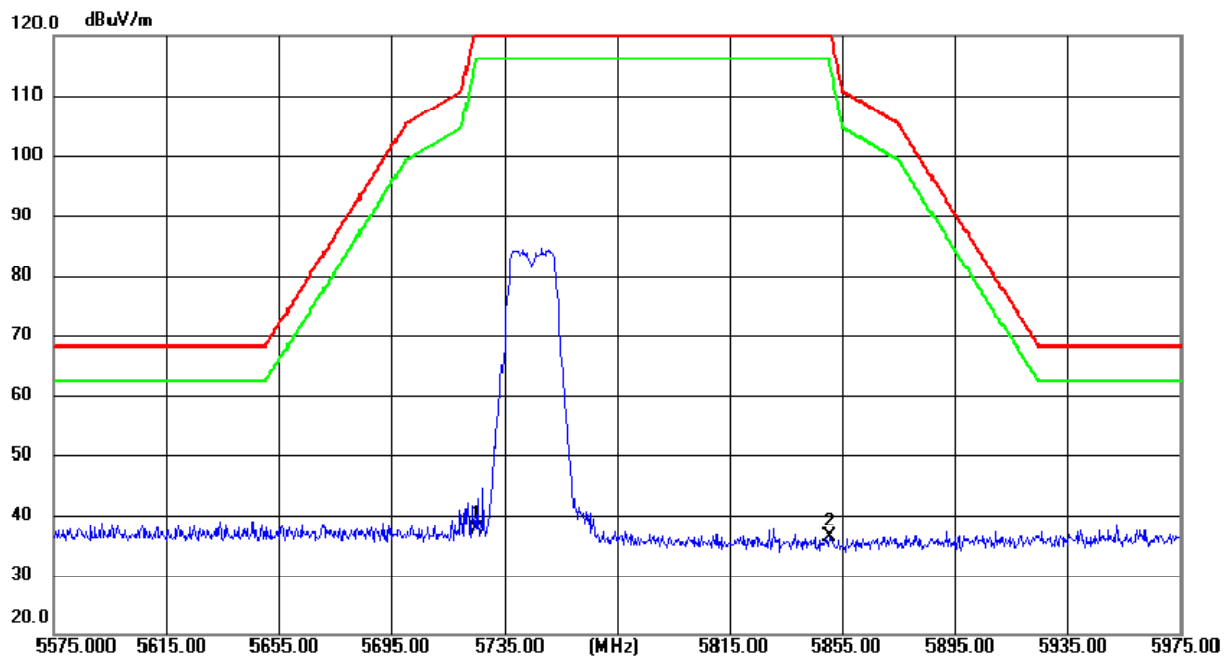


Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5725.000	V	33.73	3.95	37.68	122.20	CH 149
5850.000	V	32.39	3.96	36.35	122.20	CH 149
5725.000	H	34.56	3.95	38.51	122.20	CH 149
5850.000	H	32.48	3.96	36.44	122.20	CH 149

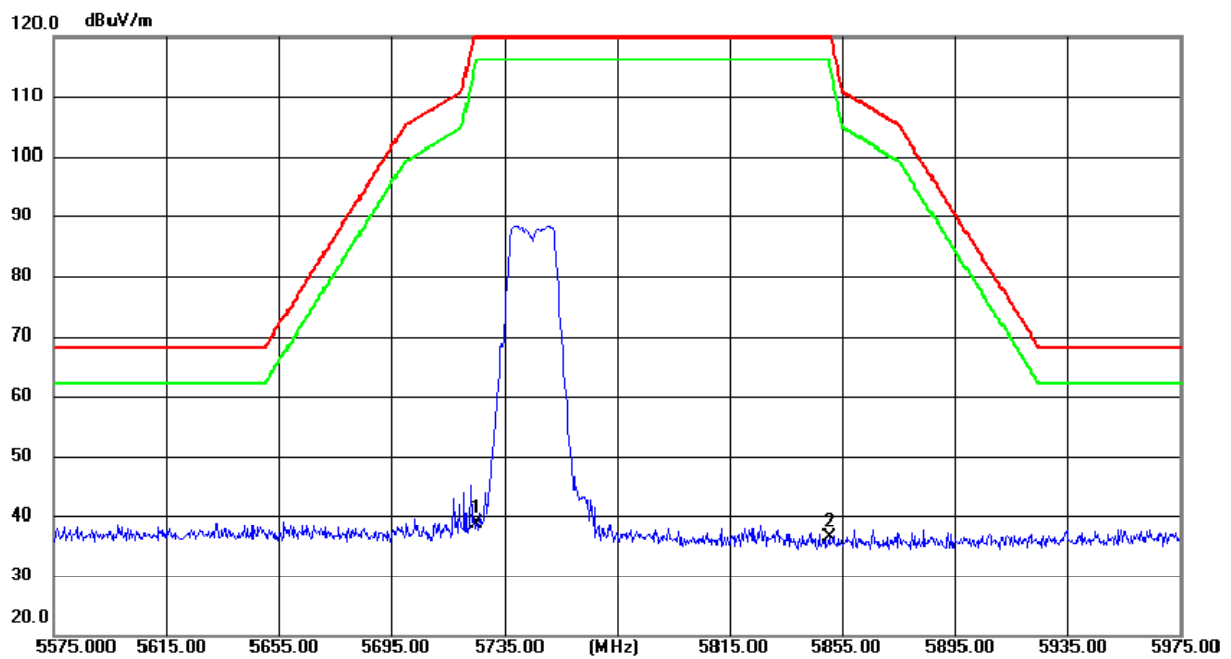
Detector mode: Peak

Polarity: Vertical



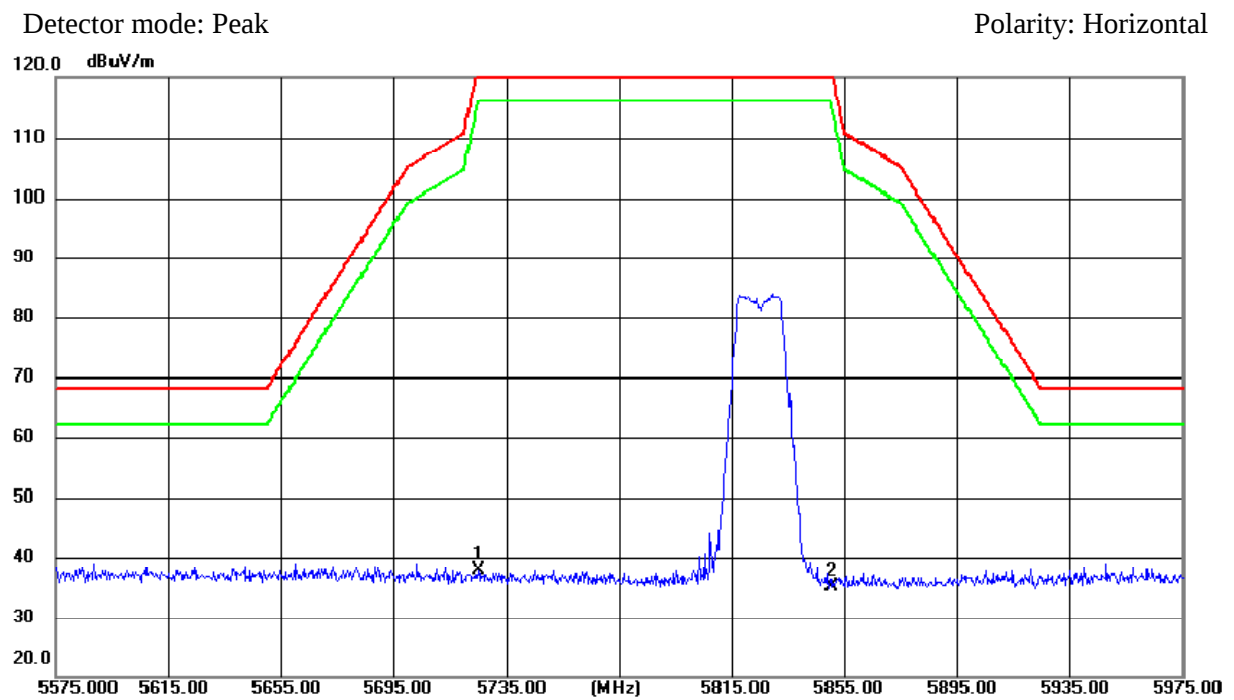
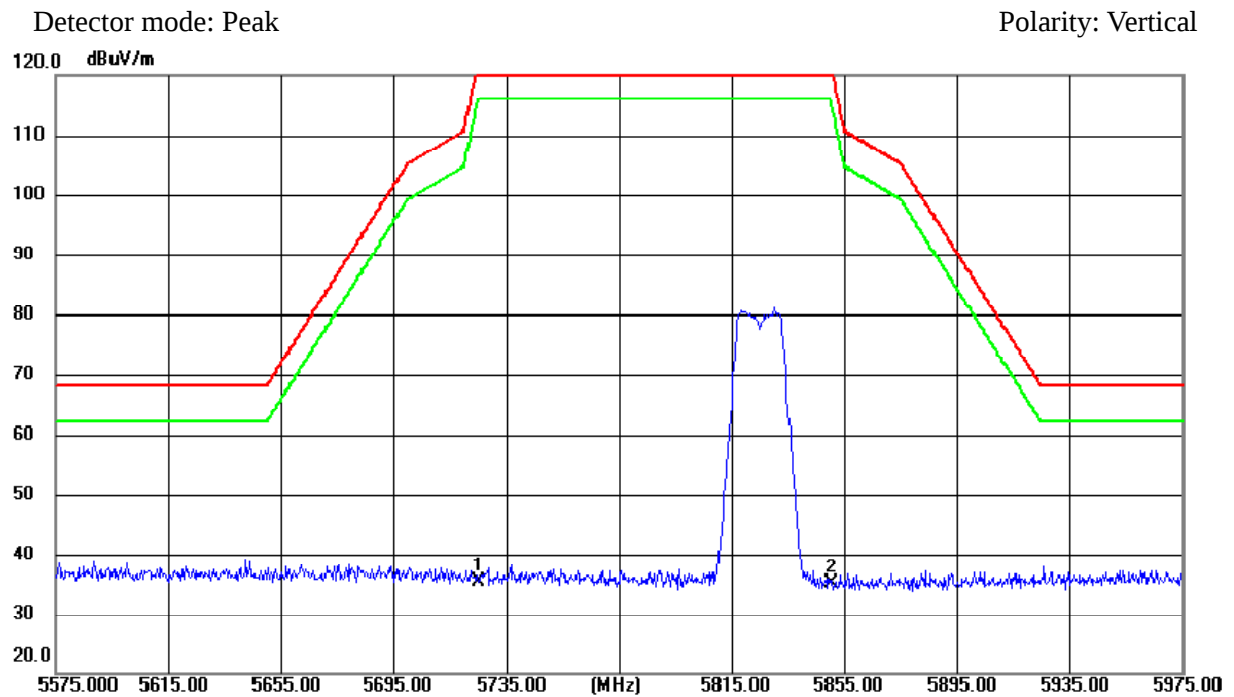
Detector mode: Peak

Polarity: Horizontal



Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuV)	Ant/CF (dB)	Act (dBuV/m)	Limit (dBuV/m)	Note
5725.000	V	31.47	3.95	35.42	122.20	CH 165
5850.000	V	31.15	3.96	35.11	122.20	CH 165
5725.000	H	33.88	3.95	37.83	122.20	CH 165
5850.000	H	31.23	3.96	35.19	122.20	CH 165

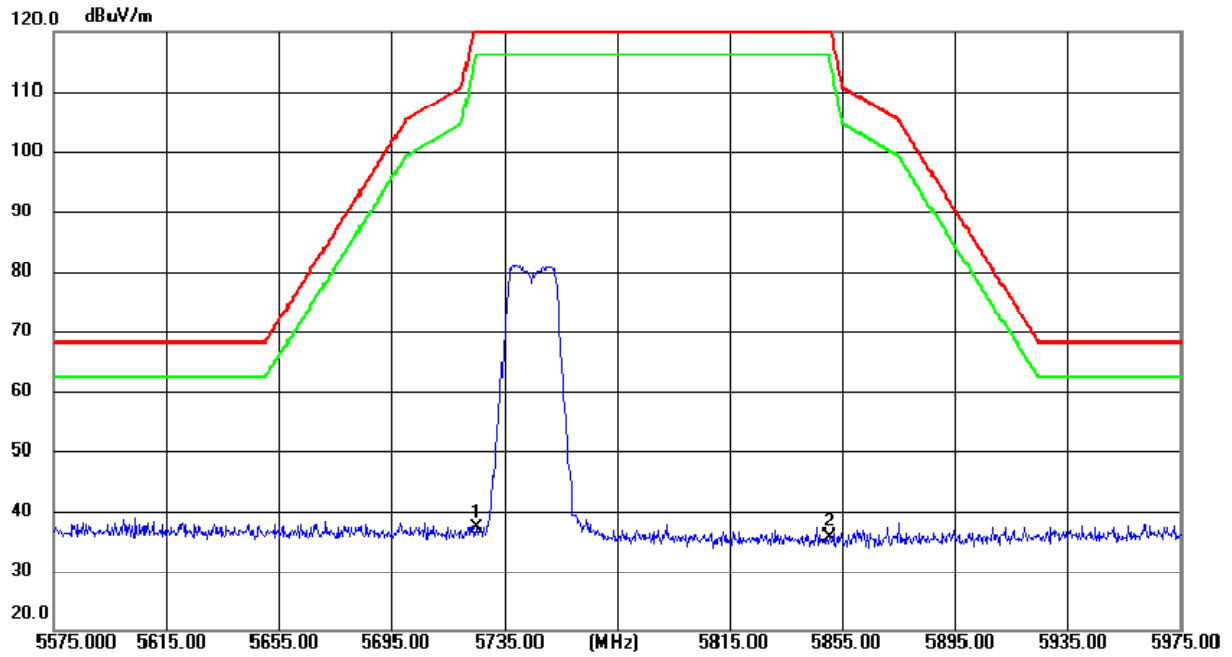


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5725.000	V	33.24	3.95	37.19	122.20	CH 149
5850.000	V	31.7	3.96	35.66	122.20	CH 149
5725.000	H	33.42	3.95	37.37	122.20	CH 149
5850.000	H	32.78	3.96	36.74	122.20	CH 149

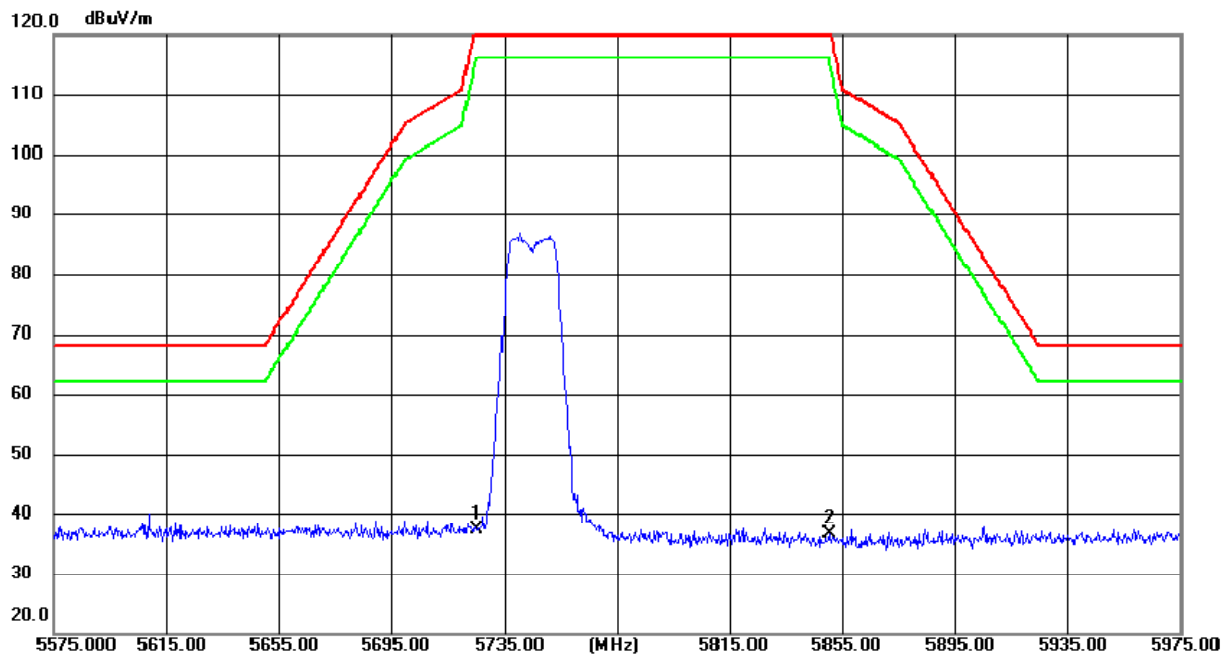
Detector mode: Peak

Polarity: Vertical



Detector mode: Peak

Polarity: Horizontal

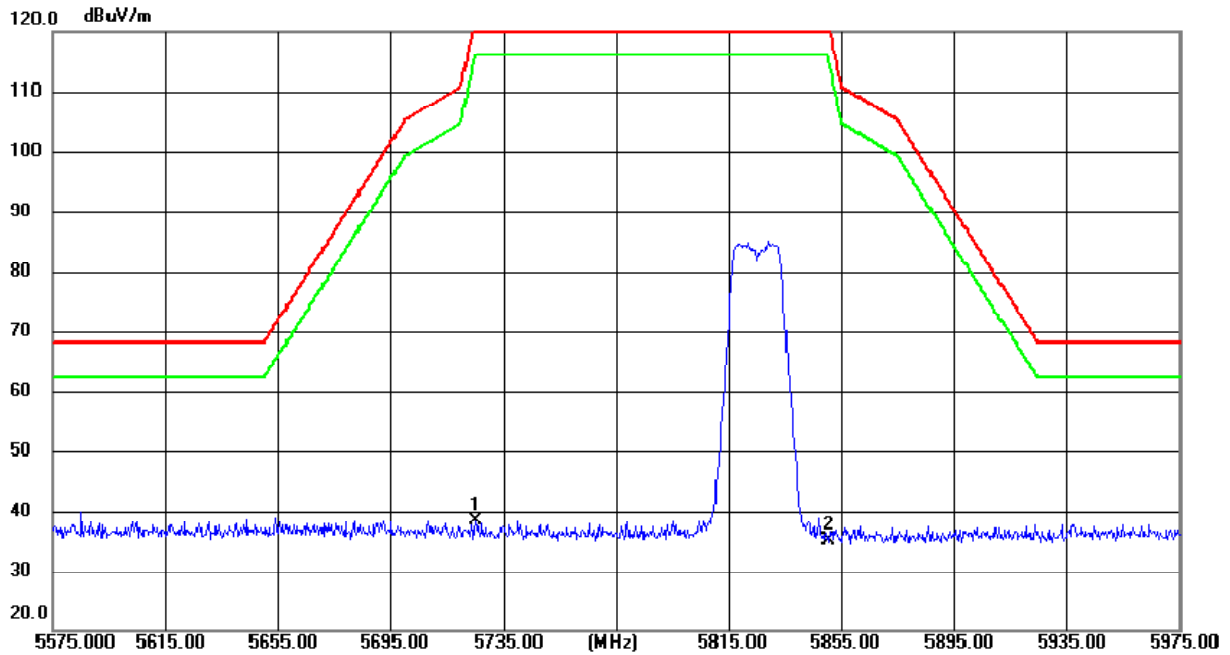


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5725.000	V	34.49	3.95	38.44	122.20	CH 165
5850.000	V	31.33	3.96	35.29	122.20	CH 165
5725.000	H	32.93	3.95	36.88	122.20	CH 165
5850.000	H	32.19	3.96	36.15	122.20	CH 165

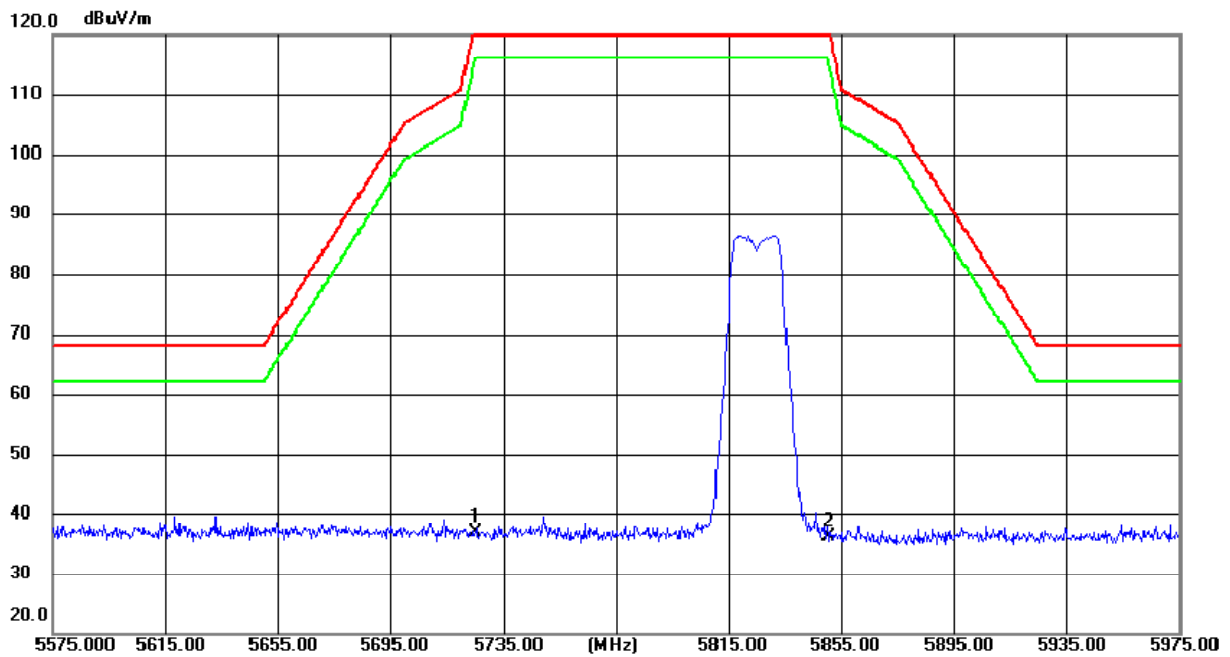
Detector mode: Peak

Polarity: Vertical



Detector mode: Peak

Polarity: Horizontal

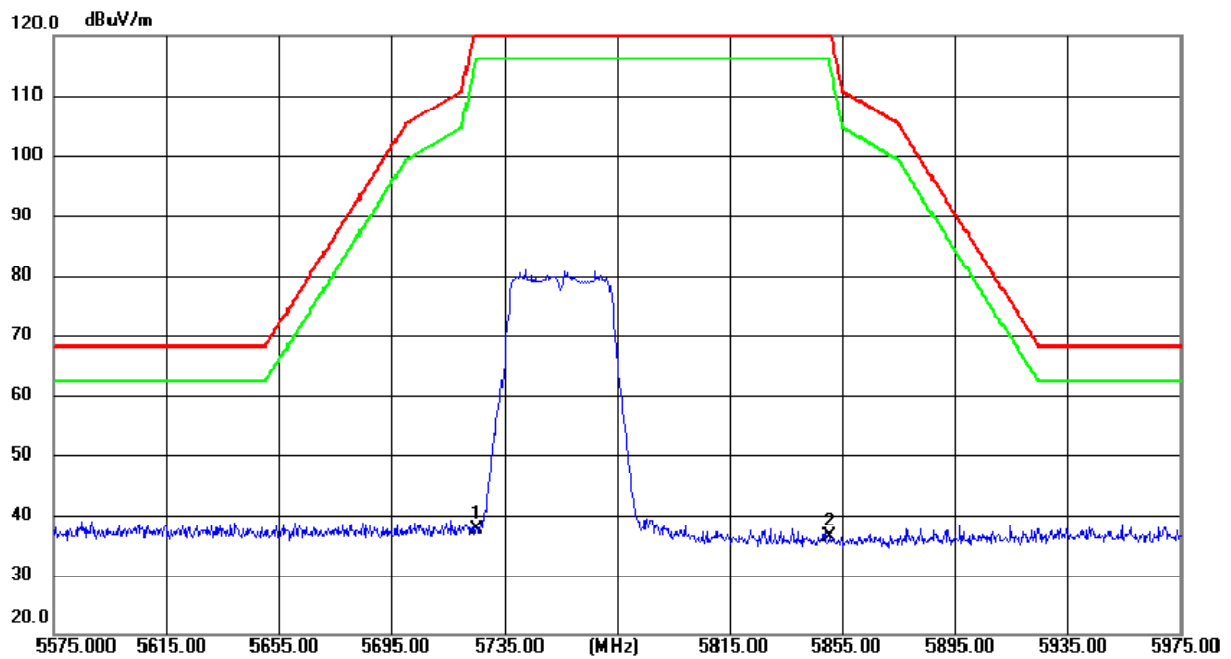


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5725.000	V	33.66	3.95	37.61	122.20	CH 151
5850.000	V	32.41	3.96	36.37	122.20	CH 151
5725.000	H	33.97	3.95	37.92	122.20	CH 151
5850.000	H	31.59	3.96	35.55	122.20	CH 151

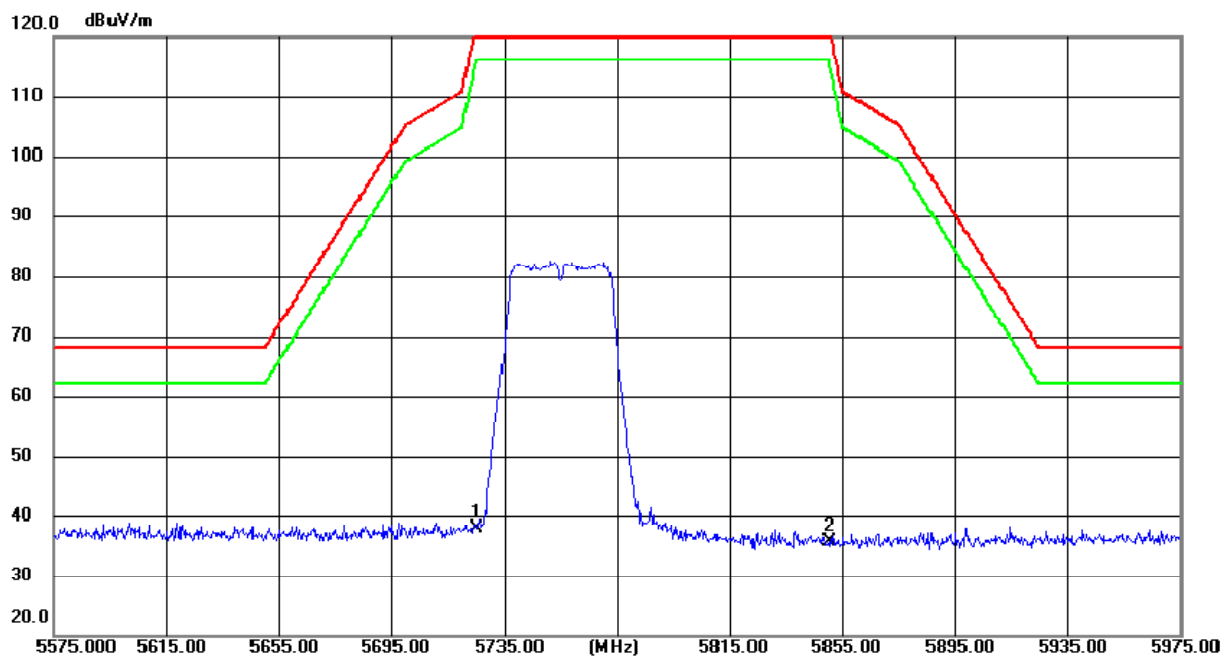
Detector mode: Peak

Polarity: Vertical



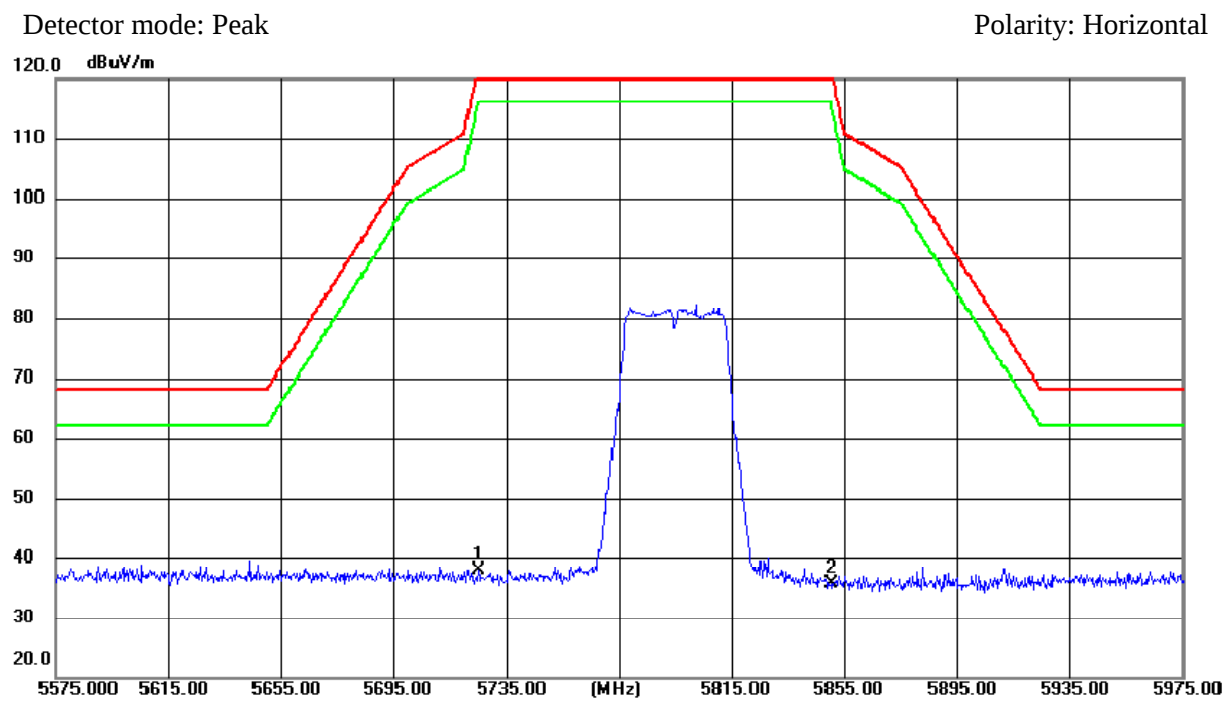
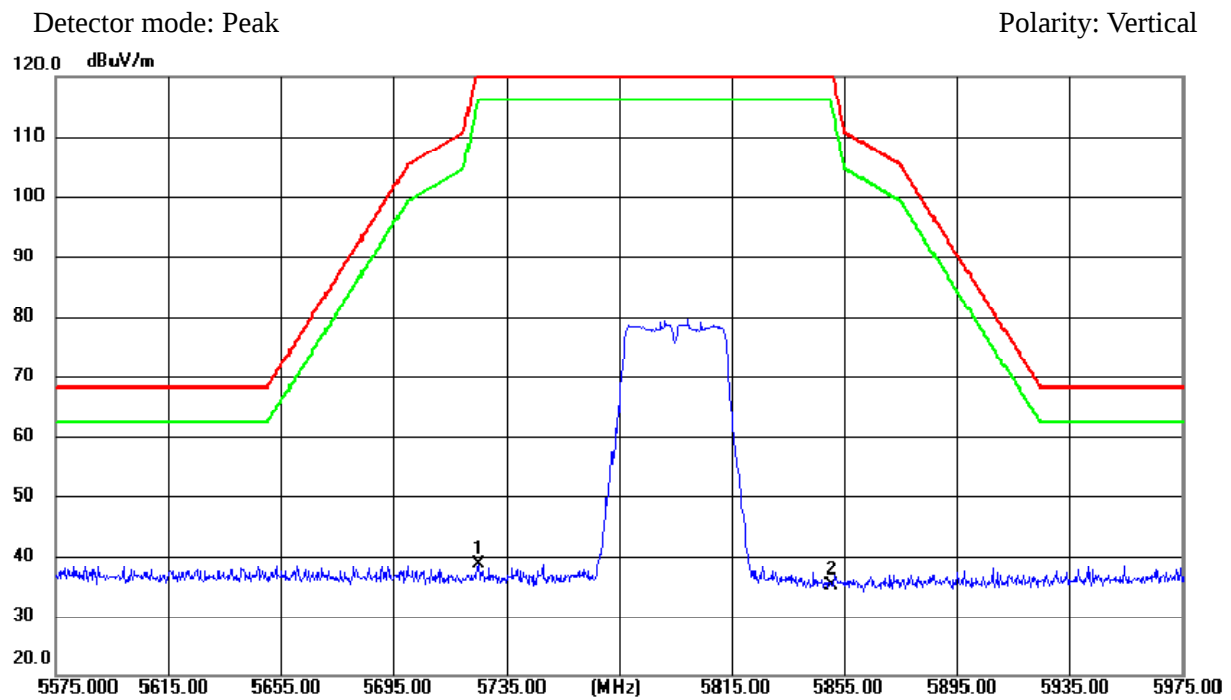
Detector mode: Peak

Polarity: Horizontal



Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz

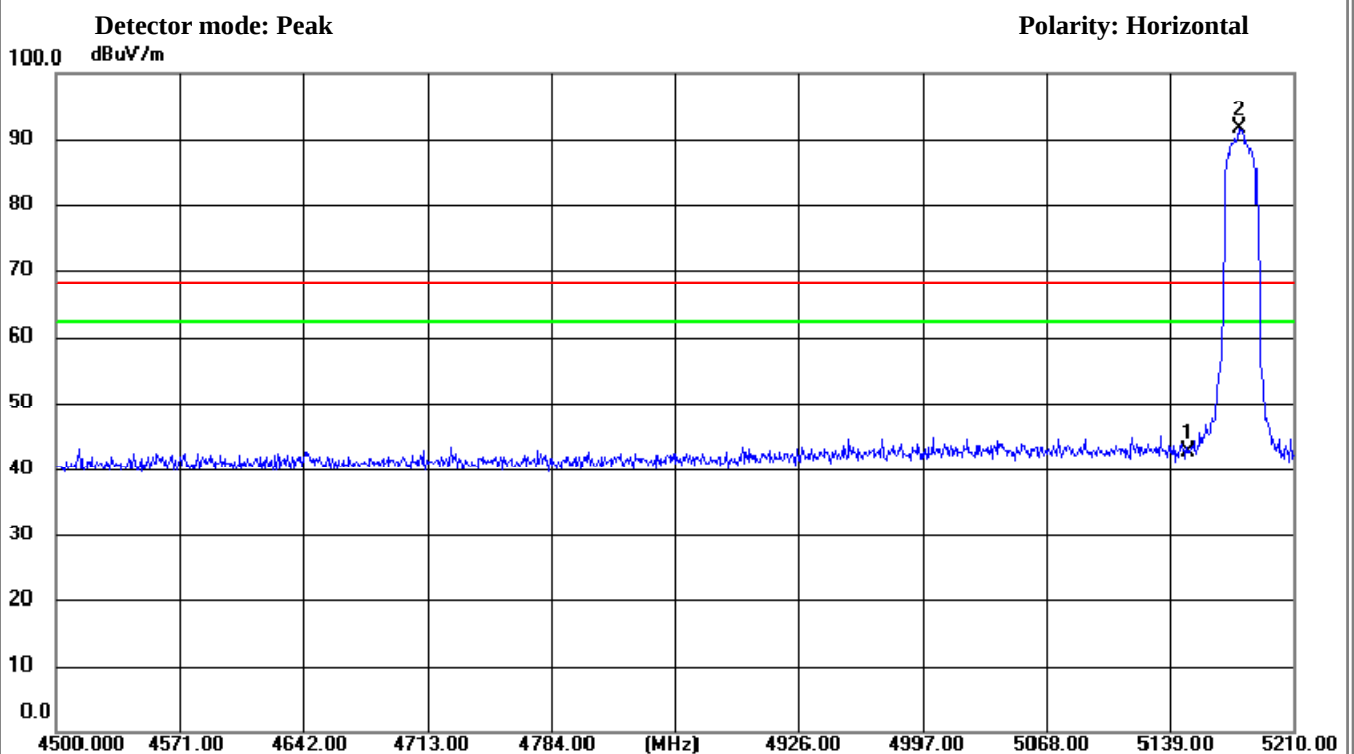
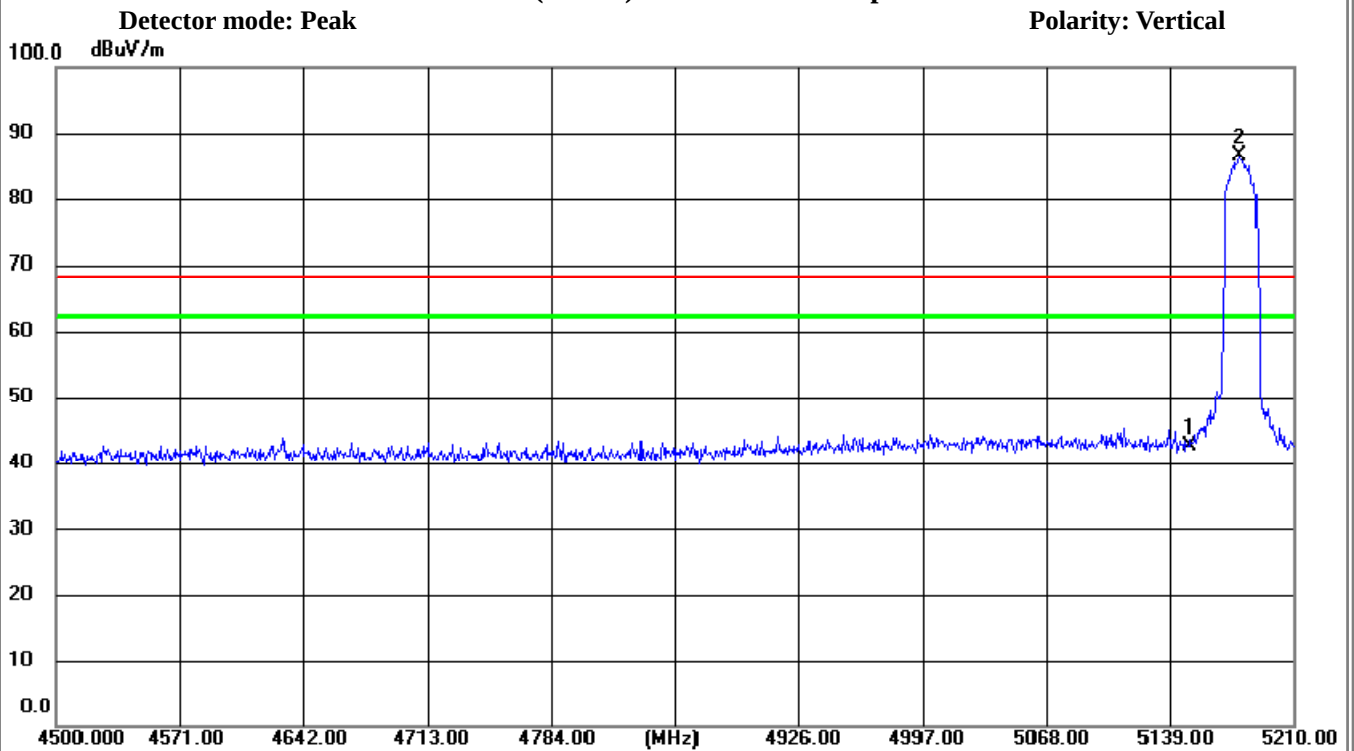
Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5725.000	V	34.56	3.95	38.51	122.20	CH 159
5850.000	V	31.26	3.96	35.22	122.20	CH 159
5725.000	H	34	3.95	37.95	122.20	CH 159
5850.000	H	31.55	3.96	35.51	122.20	CH 159



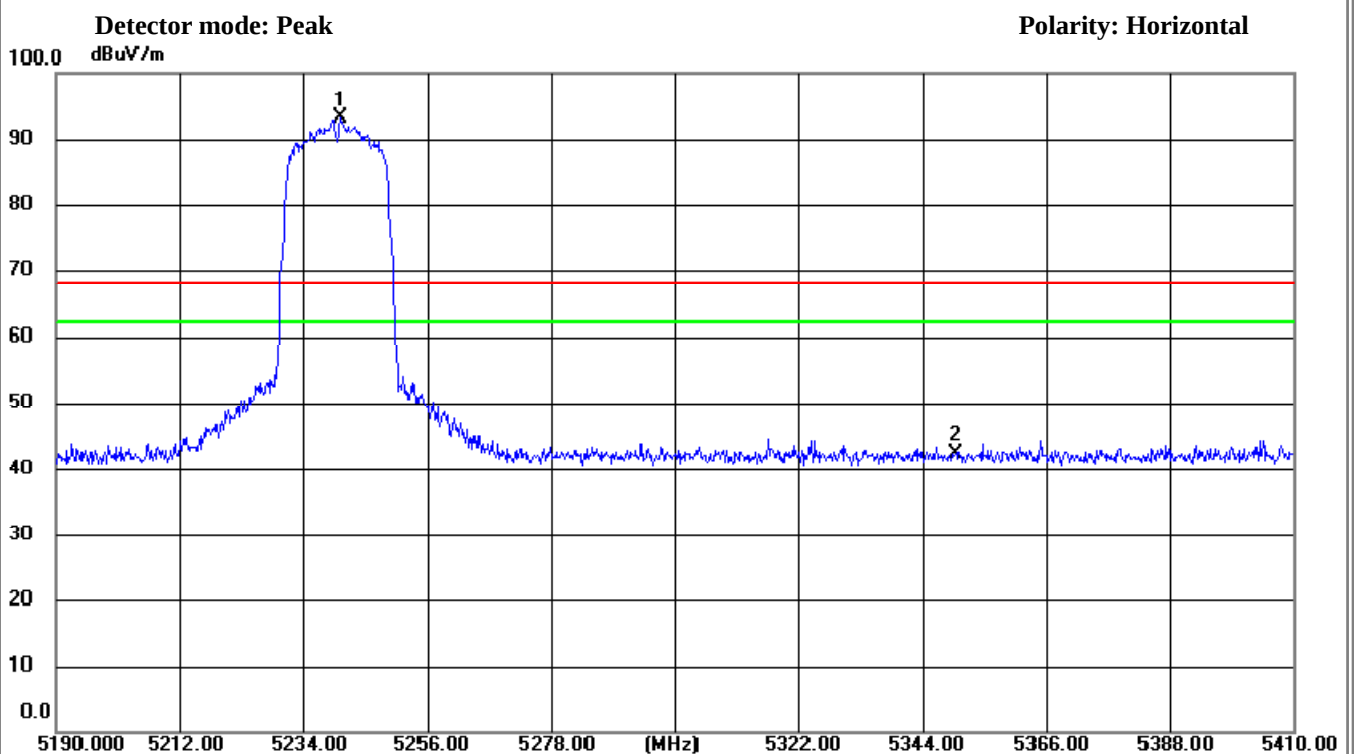
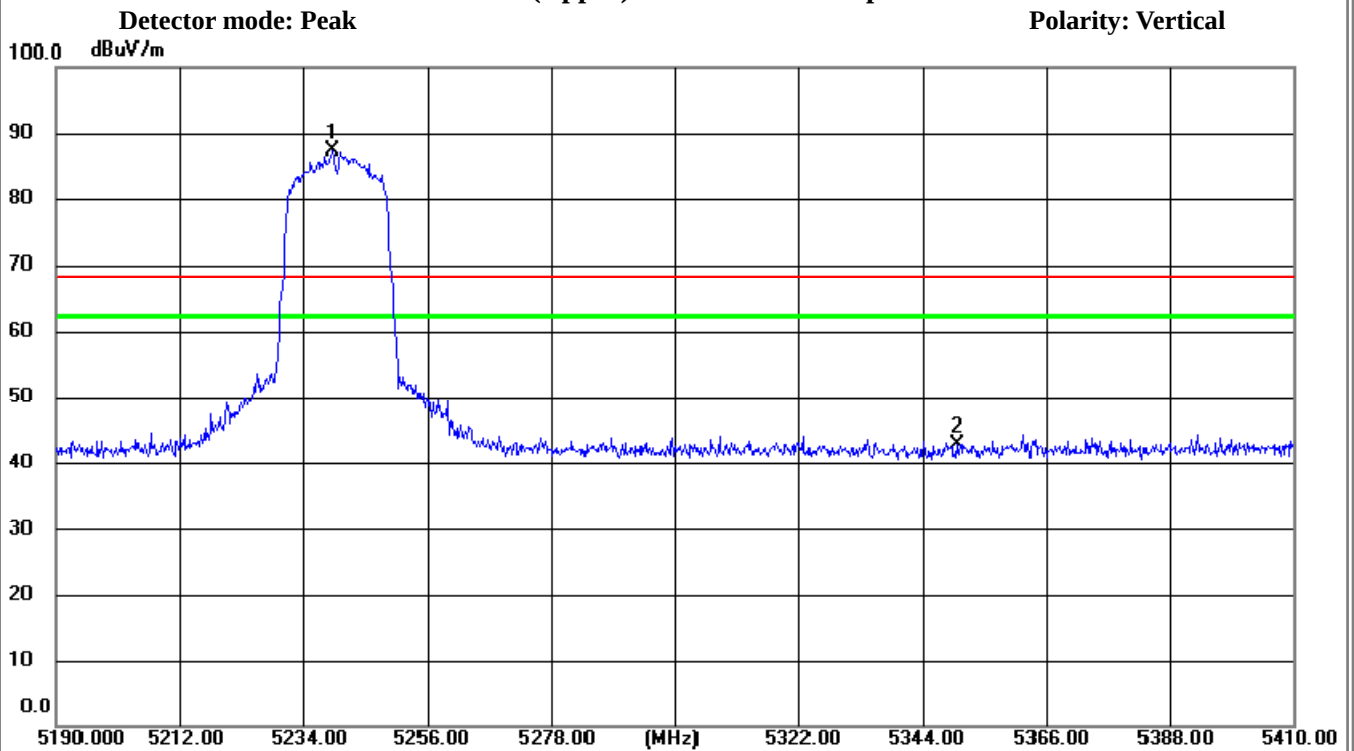
Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20)

Freq. (MHz) (Peak)	Ant.Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.00	V	37.74	4.78	42.52	68.20	CH36
5179.47	V	81.98	4.69	---	---	CH36
5150.00	H	37.93	4.78	42.71	68.20	CH36
5179.12	H	86.87	4.69	---	---	CH36
5239.17	V	82.83	4.53	---	---	CH48
5350.00	V	38.52	4.30	42.82	68.20	CH48
5240.71	H	88.55	4.53	---	---	CH48
5350.00	H	37.97	4.30	42.27	68.20	CH48

802.11n(20M) (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 7.2Mbps



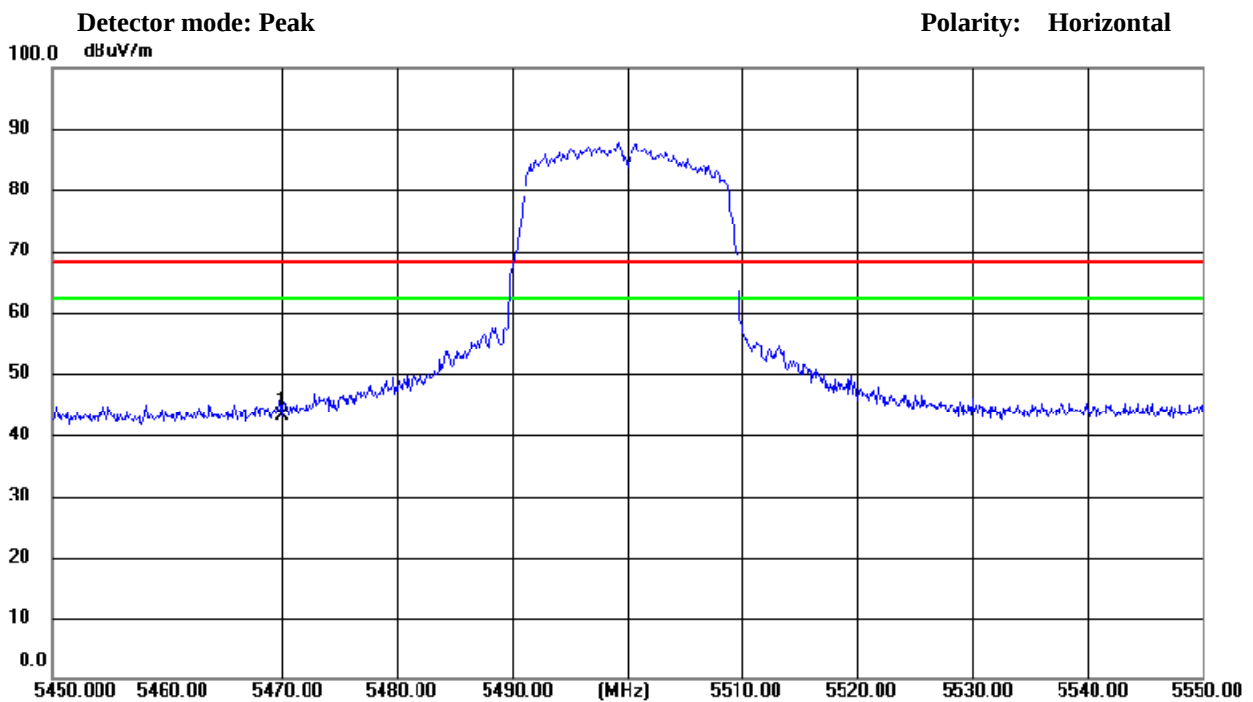
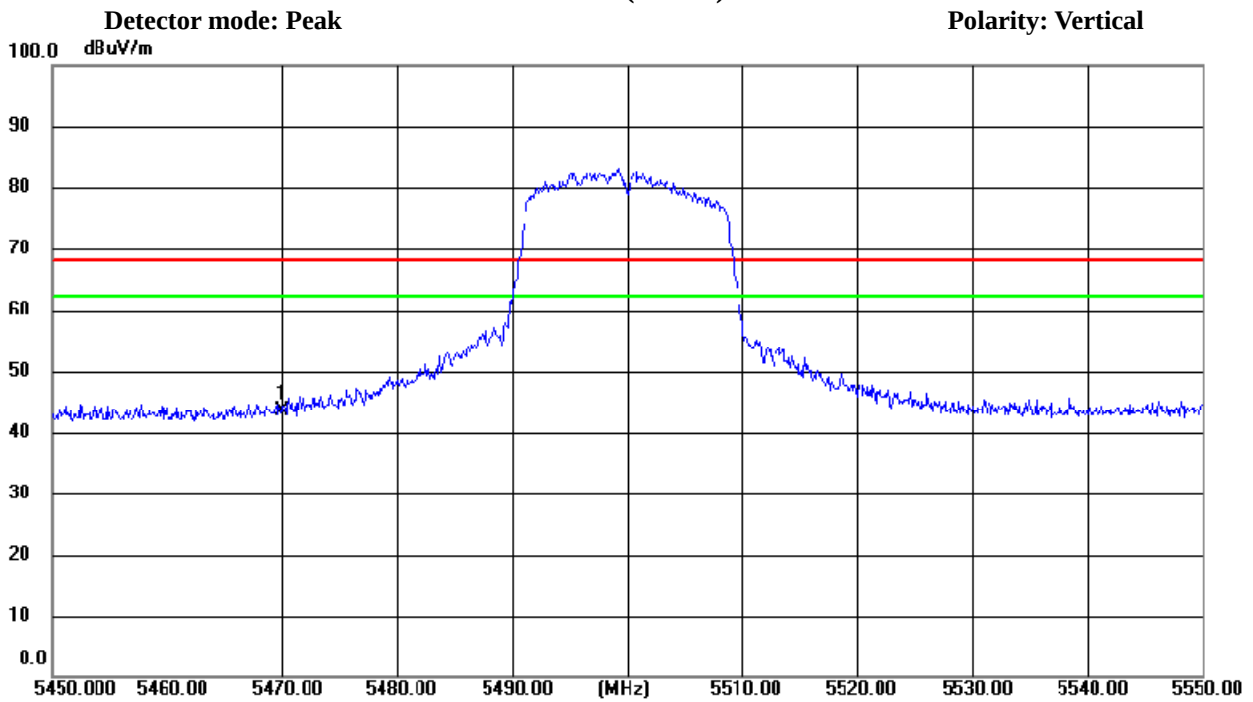
802.11n(20M) (5.15GHz-5.25GHz)
CH 48(Upper) Data rate 7.2Mbps



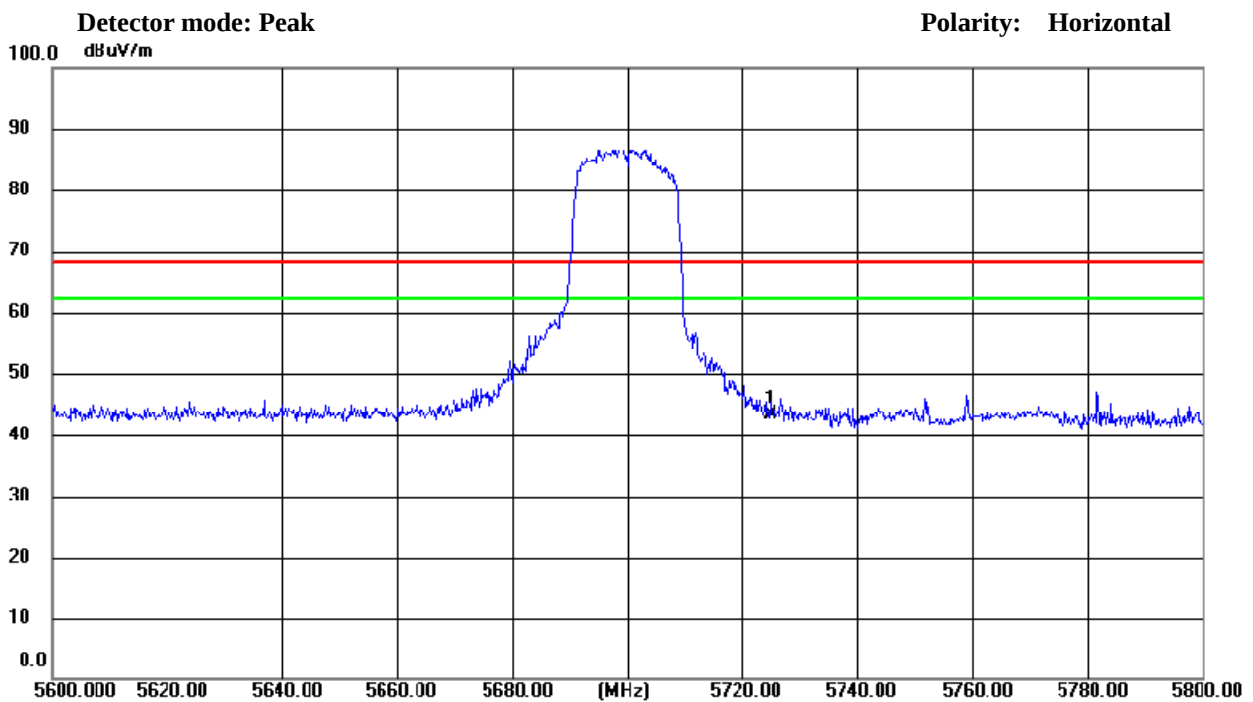
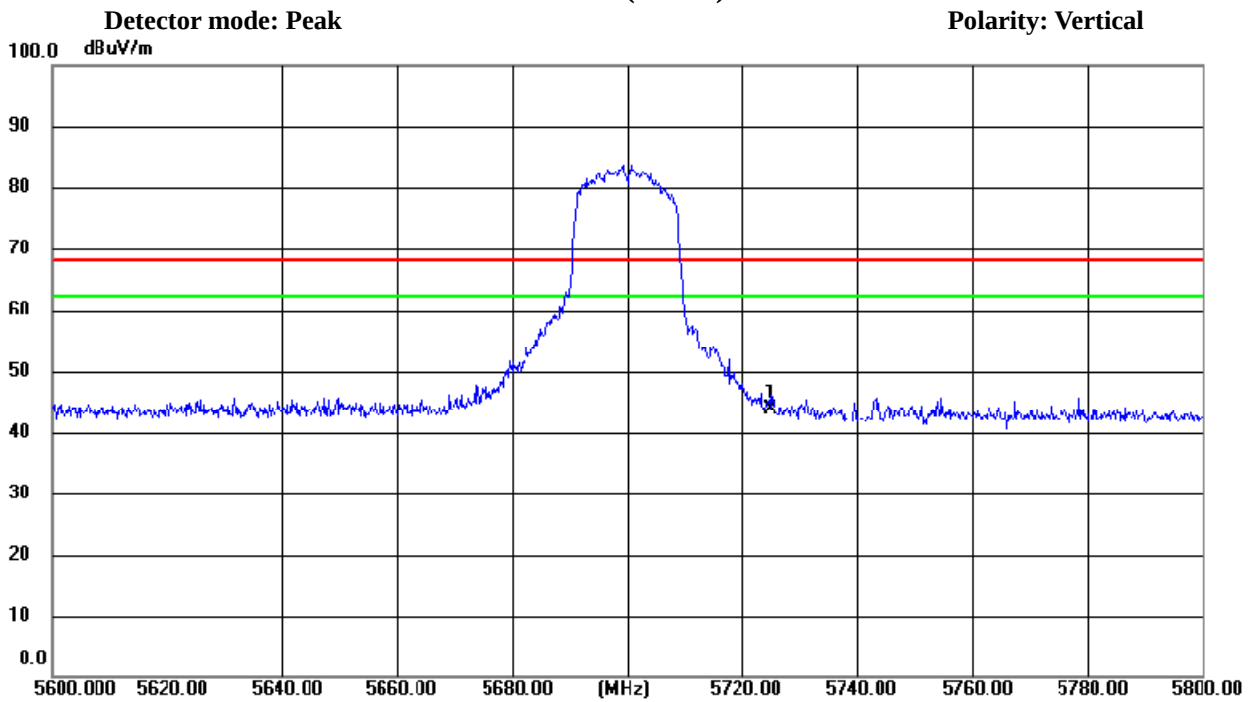
Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20)

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuV)	Ant/CF (dB)	Act (dBuV/m)	Limit (dBuV/m)	Note
5470.000	V	39.79	3.96	43.75	68.20	CH 100
5470.000	H	39.24	3.96	43.20	68.20	CH 100
5725.000	V	40.05	3.95	44.00	68.20	CH 140
5725.000	H	39.44	3.95	43.39	68.20	CH 140

802.11ac (5.47GHz-5.725GHz) CH 100 (Lower)



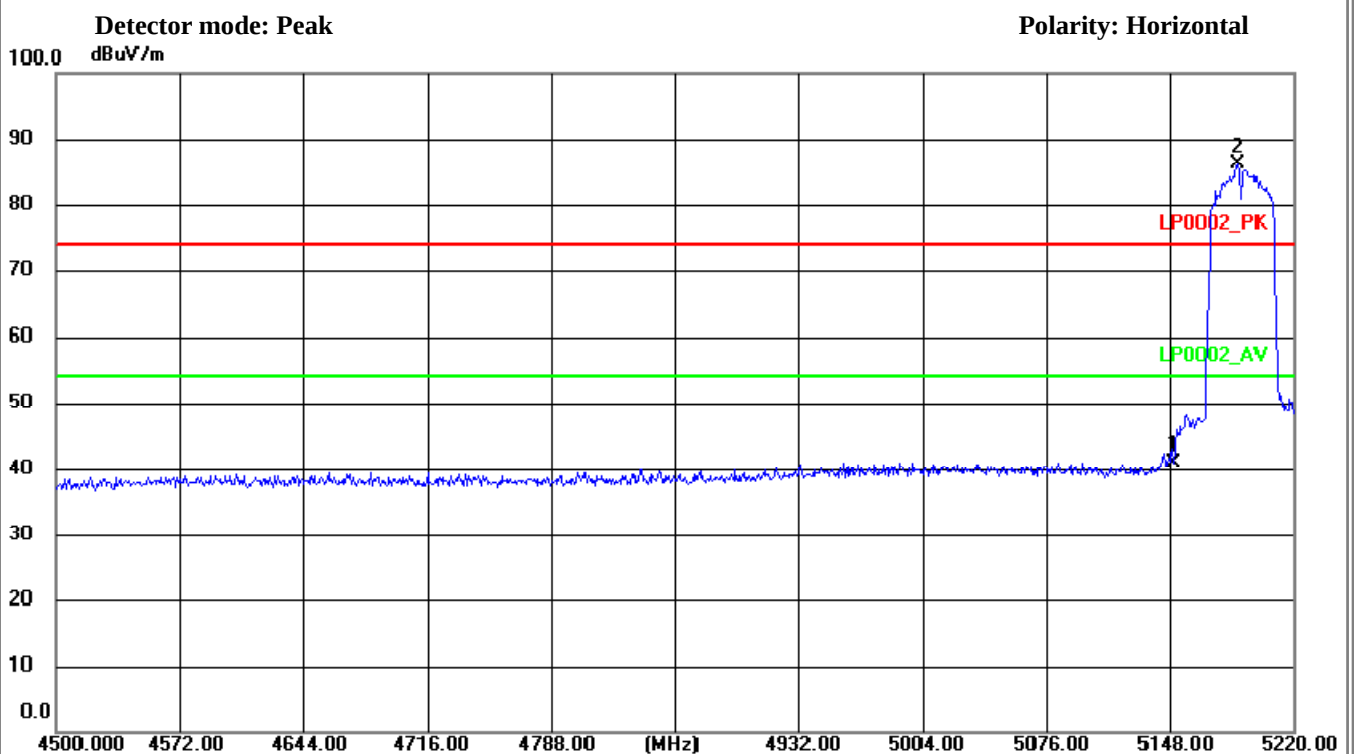
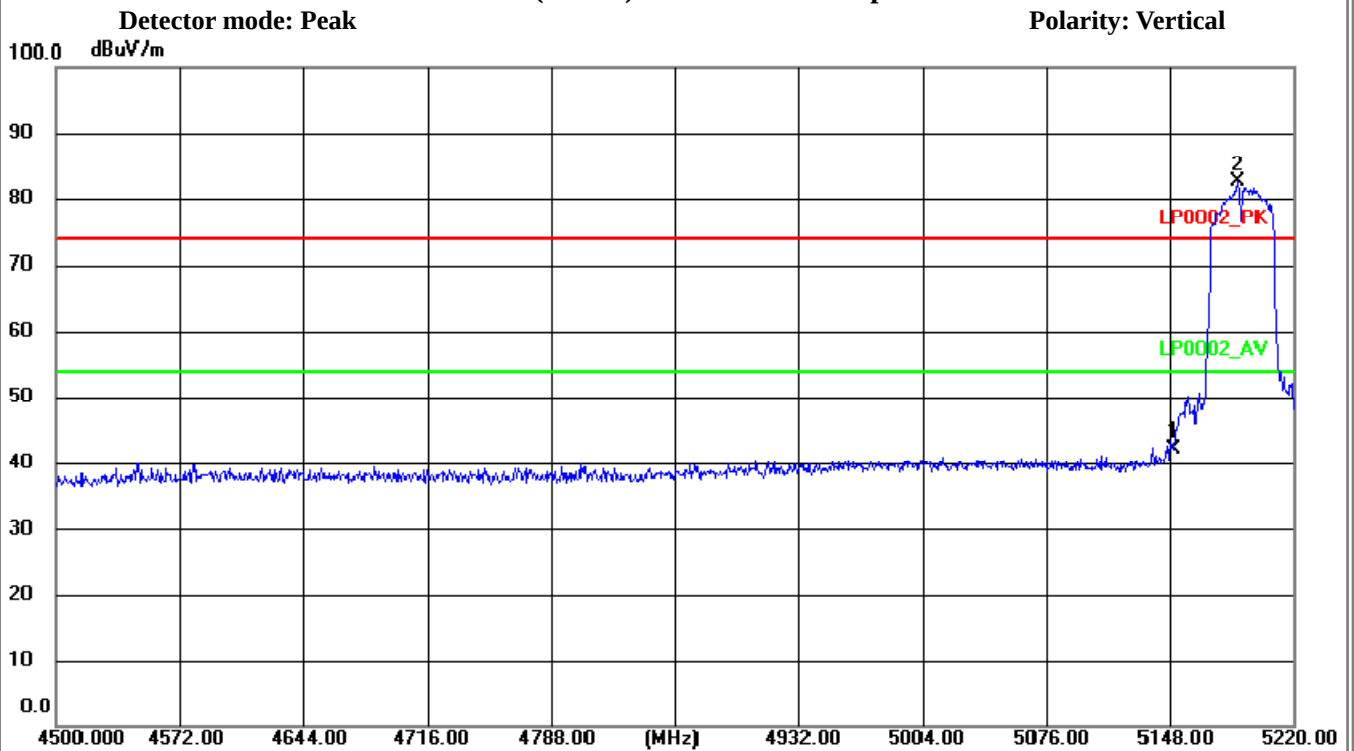
802.11ac (5.47GHz-5.725GHz) CH 140 (Lower)



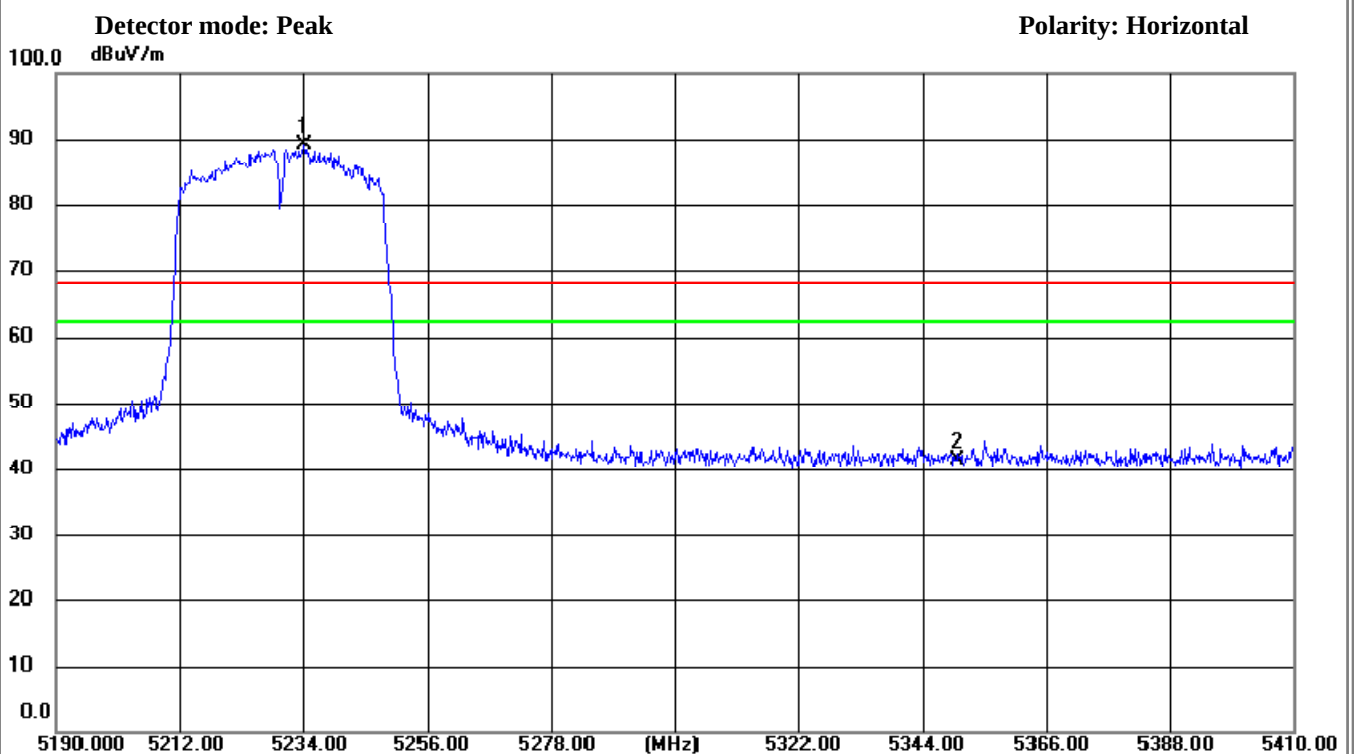
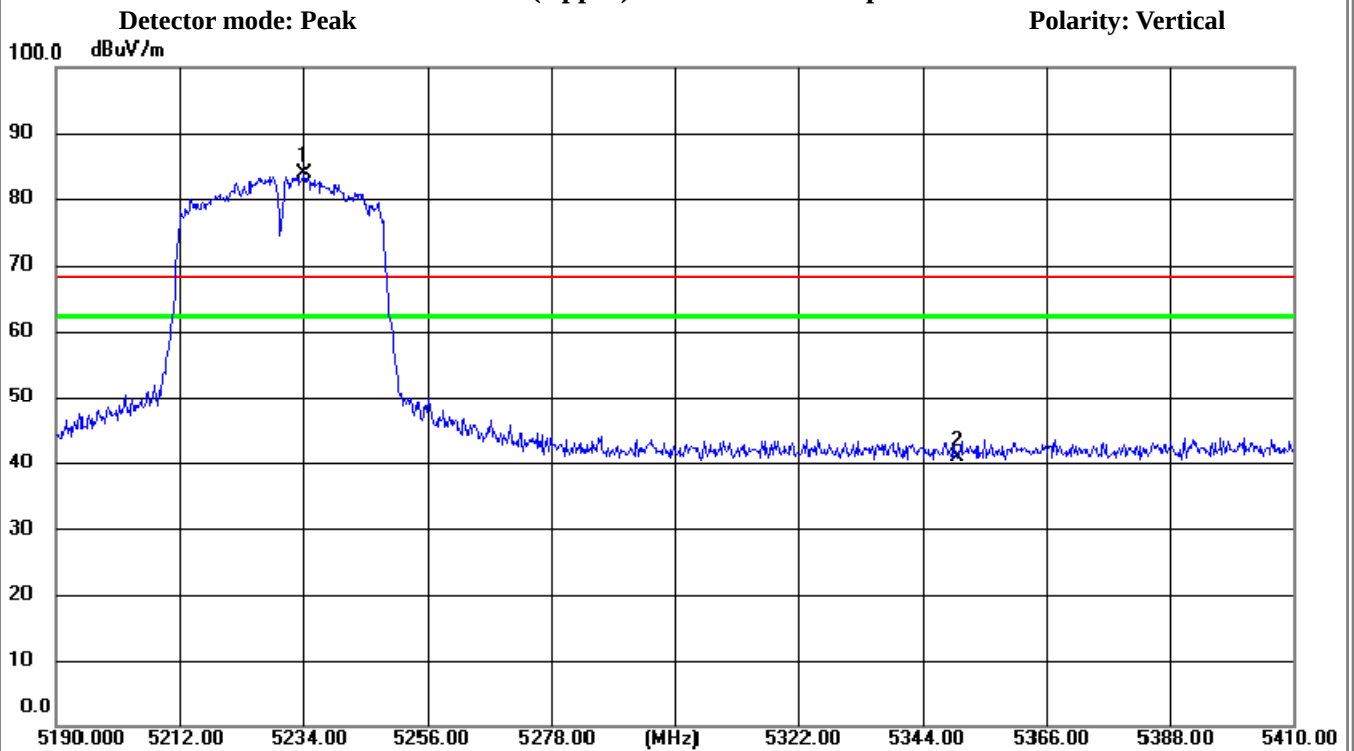
Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40)

Freq. (MHz) (Peak)	Ant.Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.00	V	37.29	4.78	42.07	68.20	CH38
5187.96	V	77.95	4.66	---	---	CH38
5150.00	H	36.13	4.78	40.91	68.20	CH38
5187.96	H	81.31	4.76	---	---	CH38
5234.22	V	79.38	4.52	---	---	CH46
5350.00	V	36.58	4.30	40.88	68.20	CH46
5234.11	H	84.61	4.54	---	---	CH46
5350.00	H	37.18	4.30	41.48	68.20	CH46

802.11ac(40M) (5.15GHz-5.25GHz)
CH 38 (Lower) Data rate 7.2Mbps



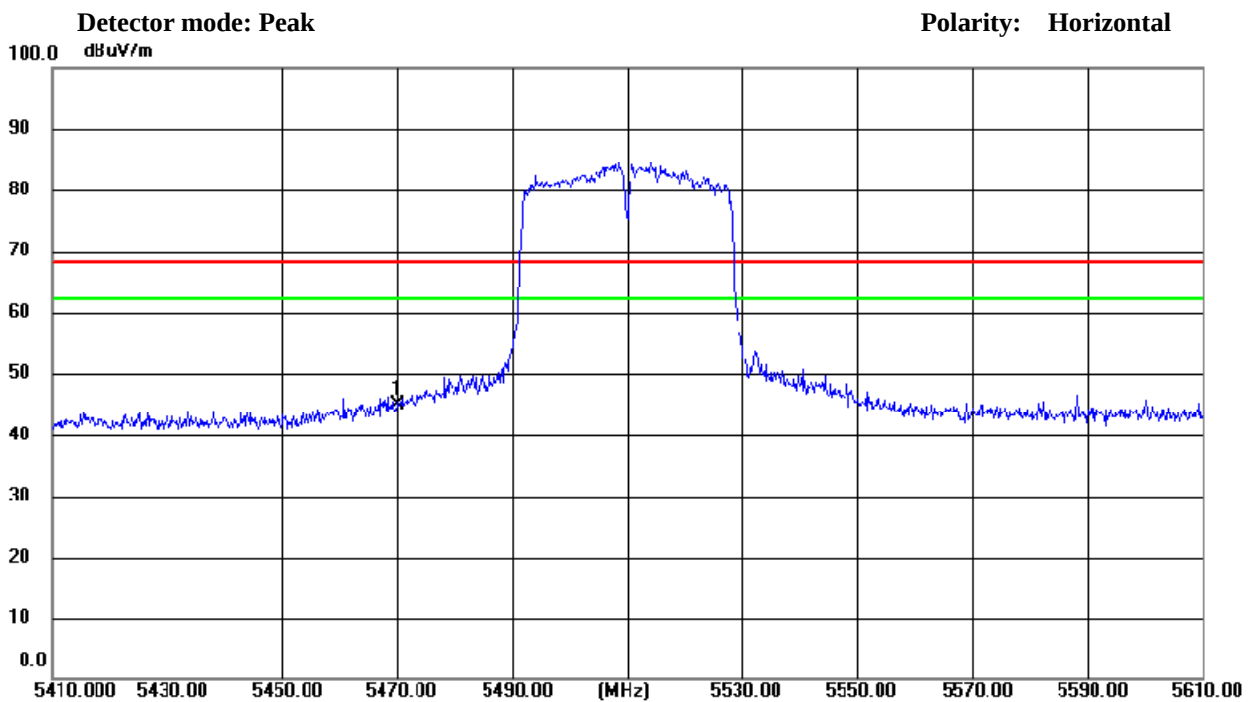
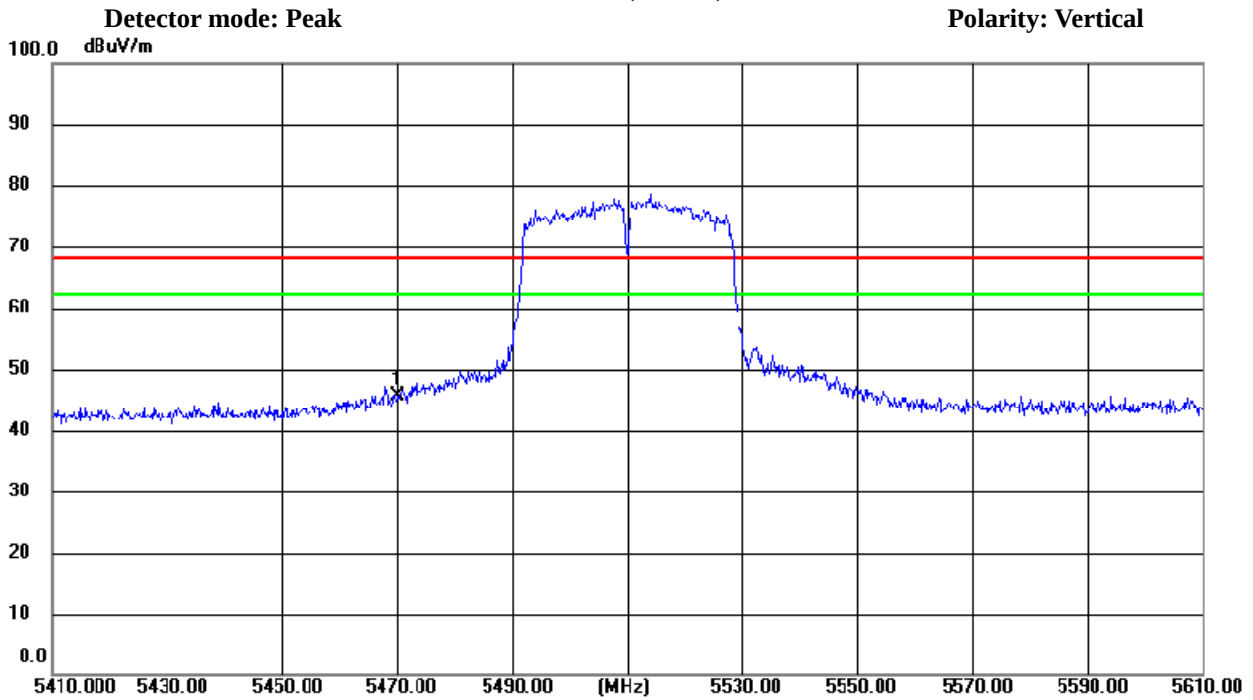
802.11ac(40M) (5.15GHz-5.25GHz)
CH 46(Upper) Data rate 7.2Mbps



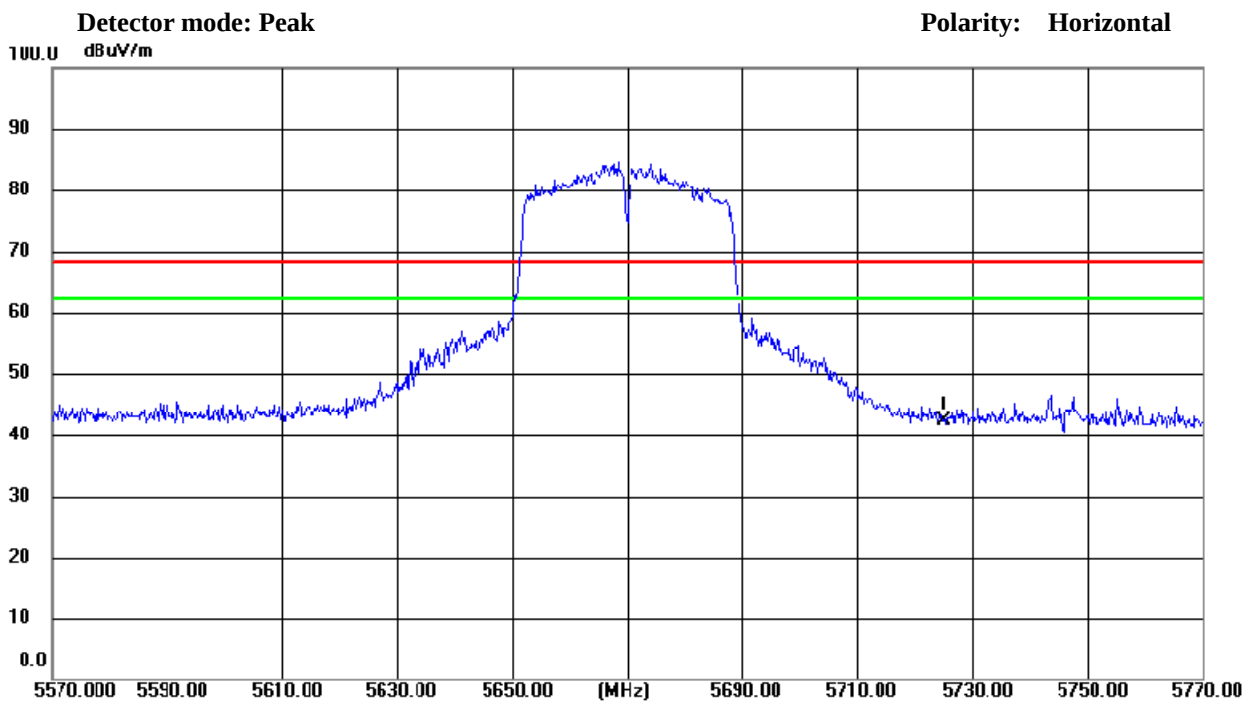
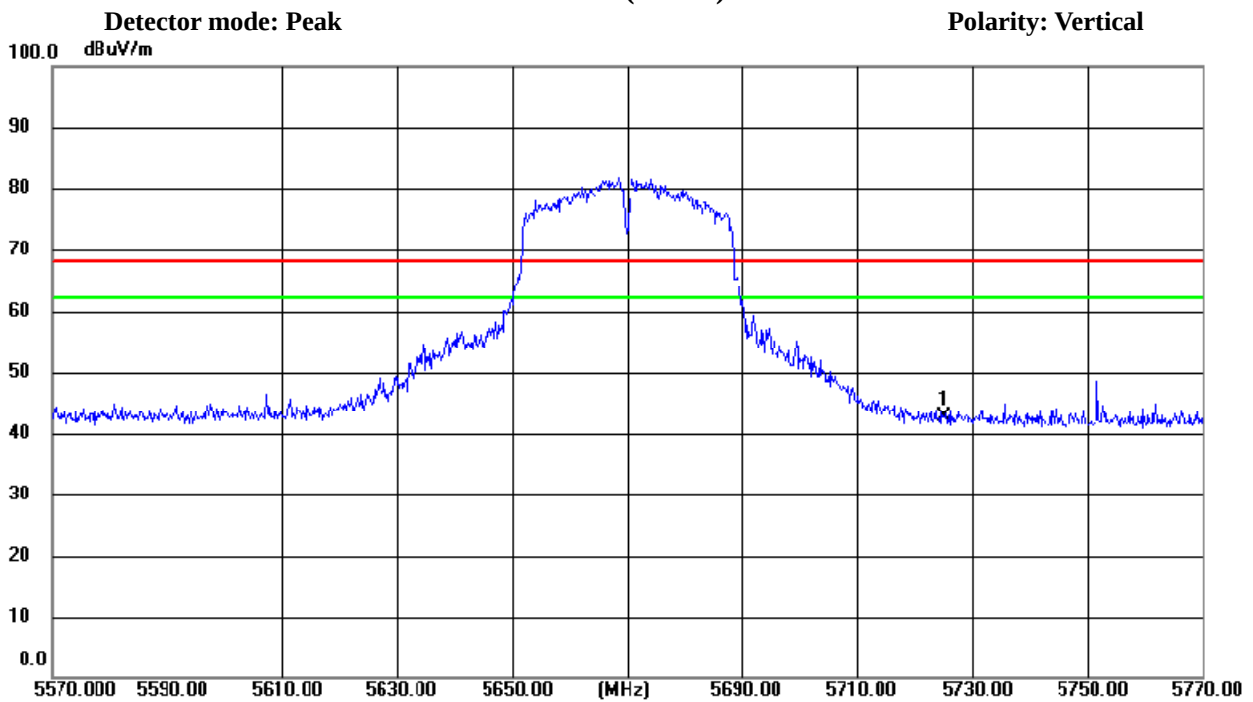
Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuV)	Ant/CF (dB)	Act (dBuV/m)	Limit (dBuV/m)	Note
5470.000	V	41.68	3.96	45.64	68.20	CH 102
5470.000	H	40.88	3.96	44.84	68.20	CH 102
5725.000	V	38.97	3.95	42.92	68.20	CH 134
5725.000	H	38.51	3.95	42.46	68.20	CH 134

802.11ac(40M) (5.47GHz-5.725GHz)
CH 102 (Lower)



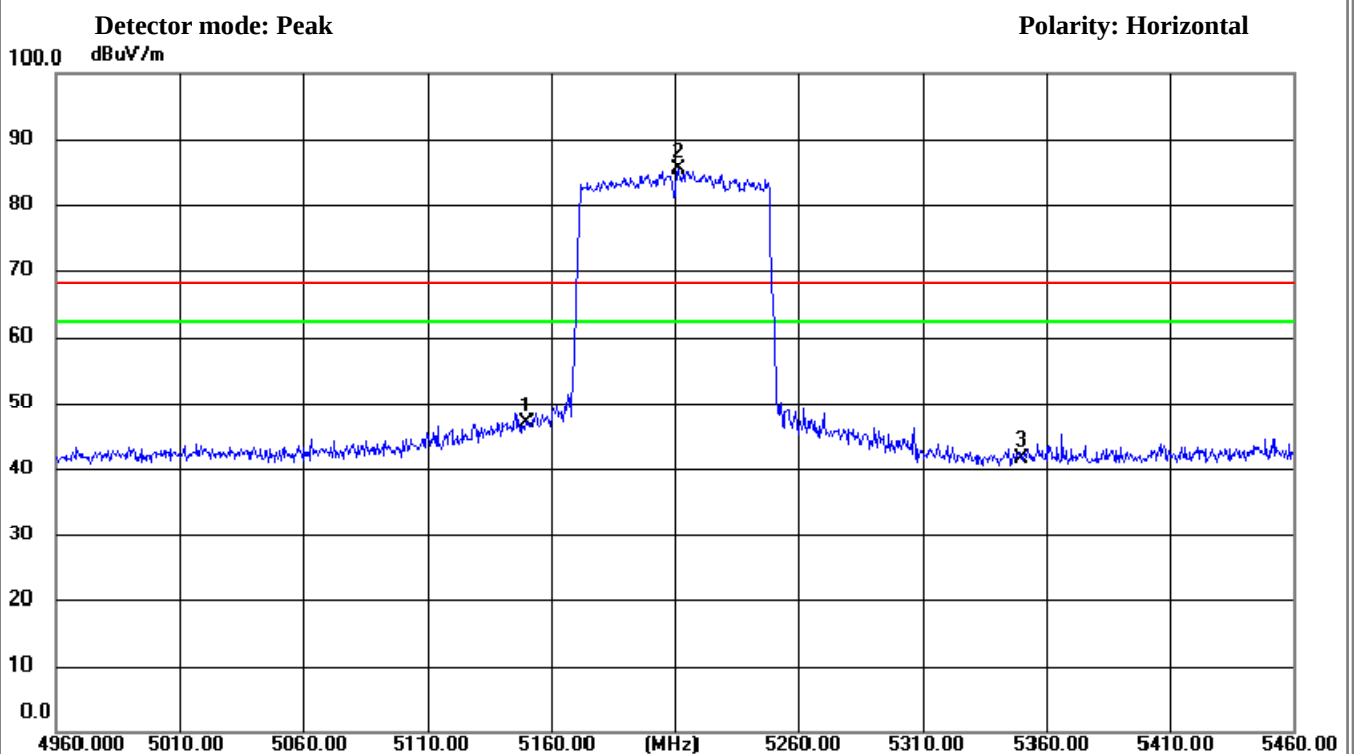
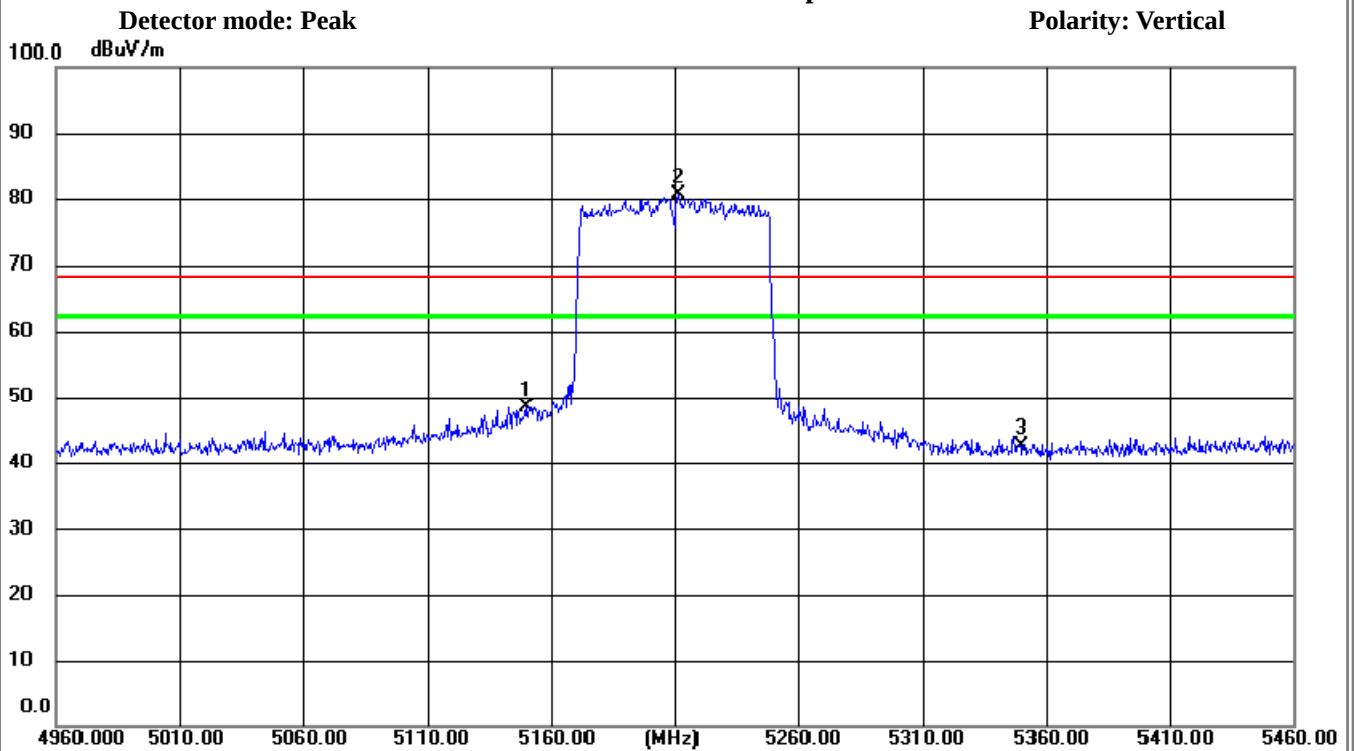
802.11ac(40M) (5.47GHz-5.725GHz) CH 134 (Lower)



Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80)

Freq. (MHz) (Peak)	Ant.Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.00	V	43.7	4.78	48.48	68.20	CH42
5211.50	V	75.93	4.59	---	---	CH42
5350.00	V	38.4	4.30	42.70	68.20	CH42
5150.00	H	41.98	4.78	46.76	68.20	CH42
5211.50	H	80.77	4.59	---	---	CH42
5350.00	H	37.34	4.30	41.64	68.20	CH42

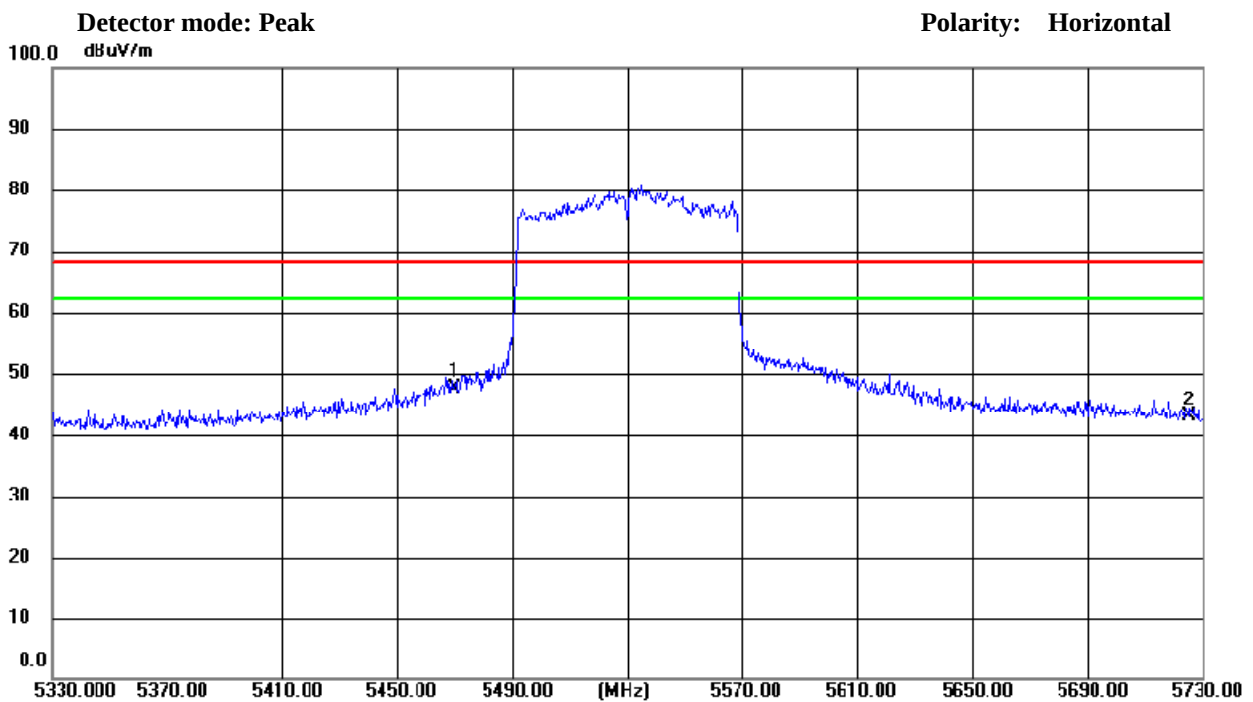
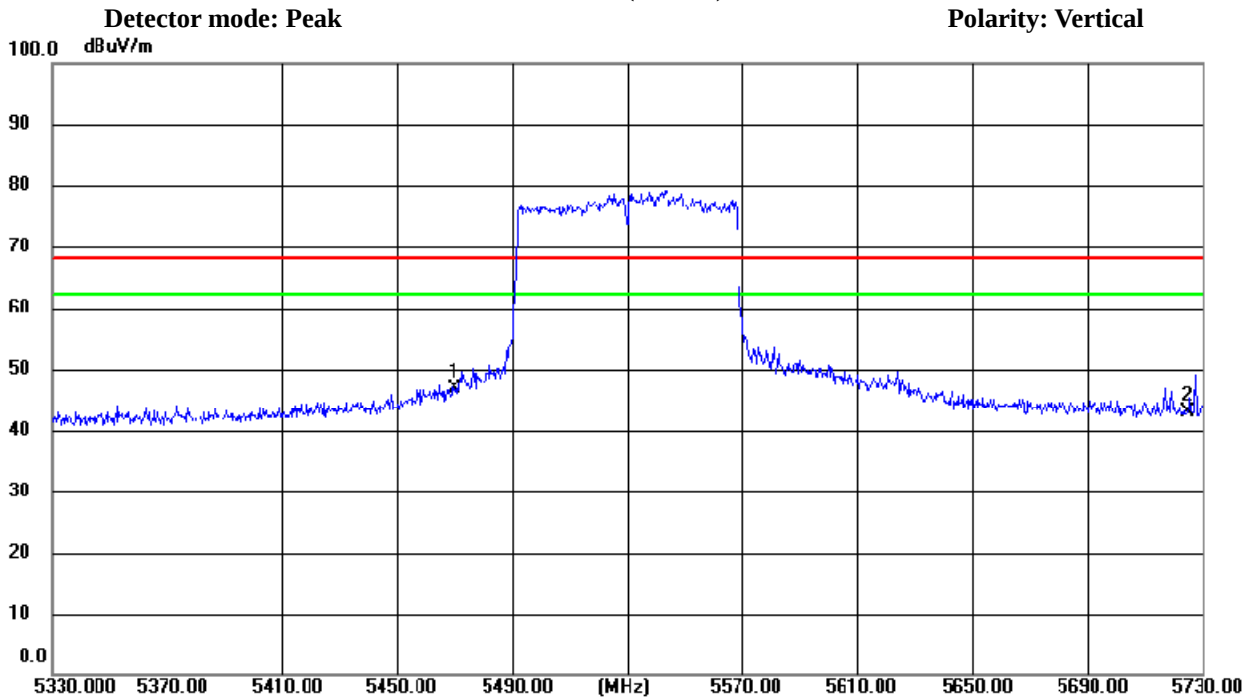
802.11ac(80M) (5.15GHz-5.25GHz) CH 42 Data rate 7.2Mbps



Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80)

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5470.000	V	42.94	3.96	46.90	68.20	CH 106
5725.000	V	39.17	3.95	43.12	68.20	CH 106
5470.000	H	43.75	3.96	47.71	68.20	CH 106
5725.000	H	39.14	3.95	43.09	68.20	CH 106

802.11ac(80M) (5.31GHz-5.775GHz)
CH 106 (Lower)

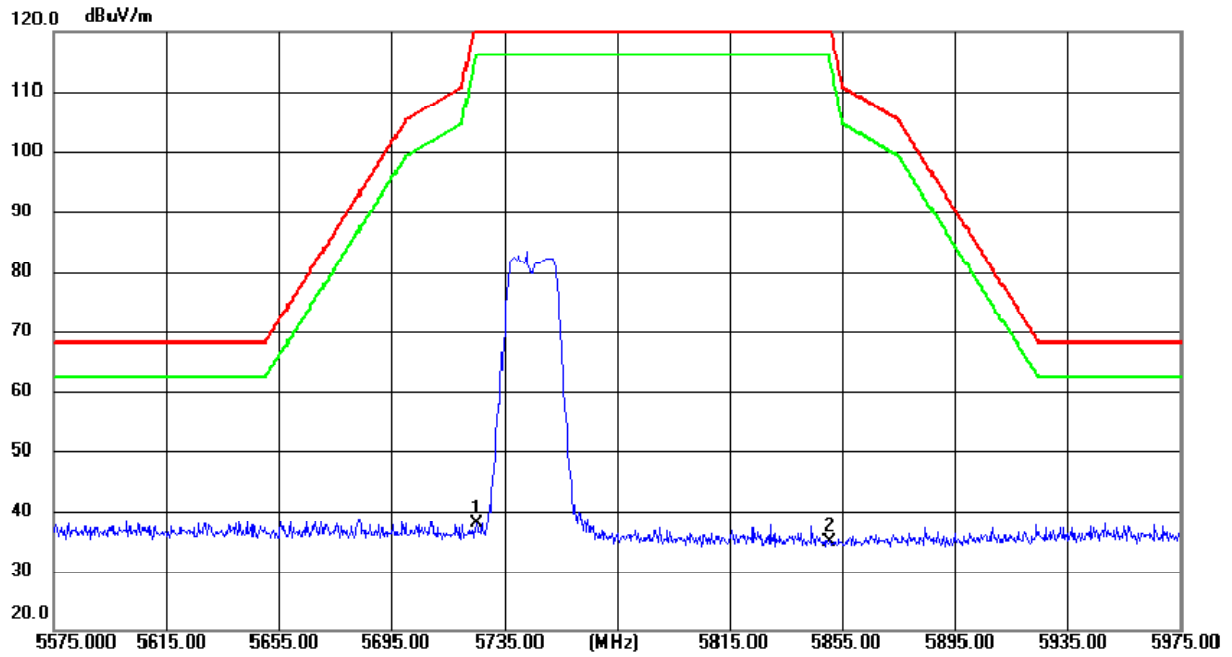


Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuV)	Ant/CF (dB)	Act (dBuV/m)	Limit (dBuV/m)	Note
5725.000	V	33.76	3.95	37.71	122.20	CH 149
5850.000	V	31.03	3.96	34.99	122.20	CH 149
5725.000	H	34.57	3.95	38.52	122.20	CH 149
5850.000	H	30.2	3.96	34.16	122.20	CH 149

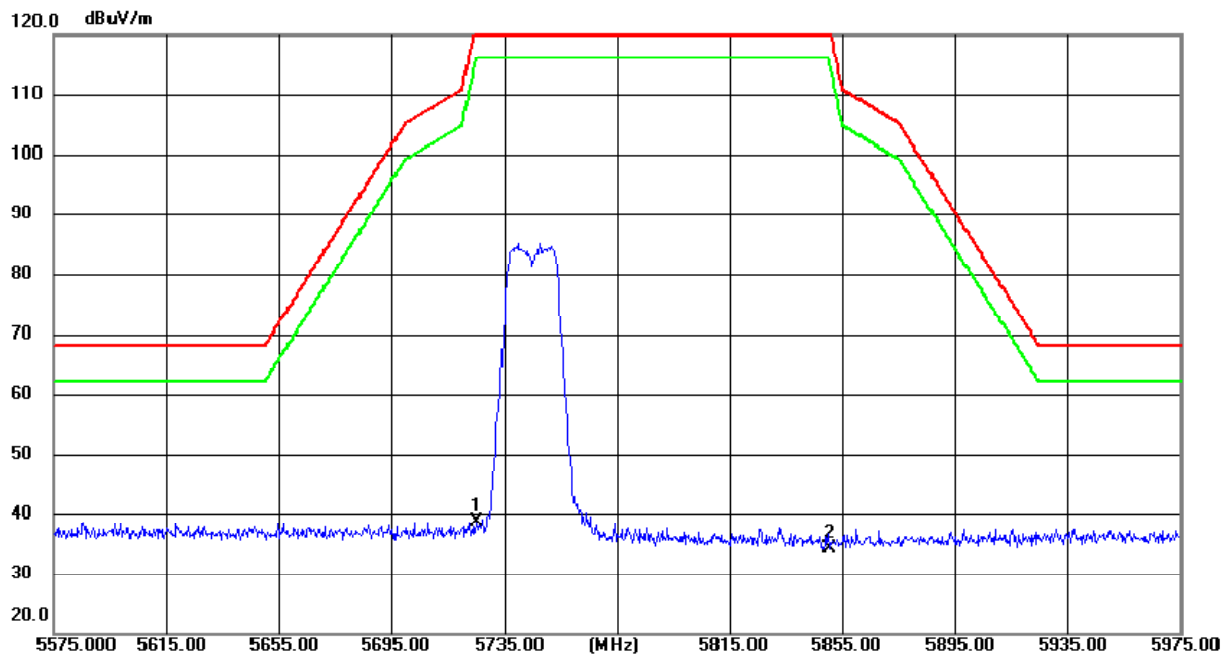
Detector mode: Peak

Polarity: Vertical



Detector mode: Peak

Polarity: Horizontal

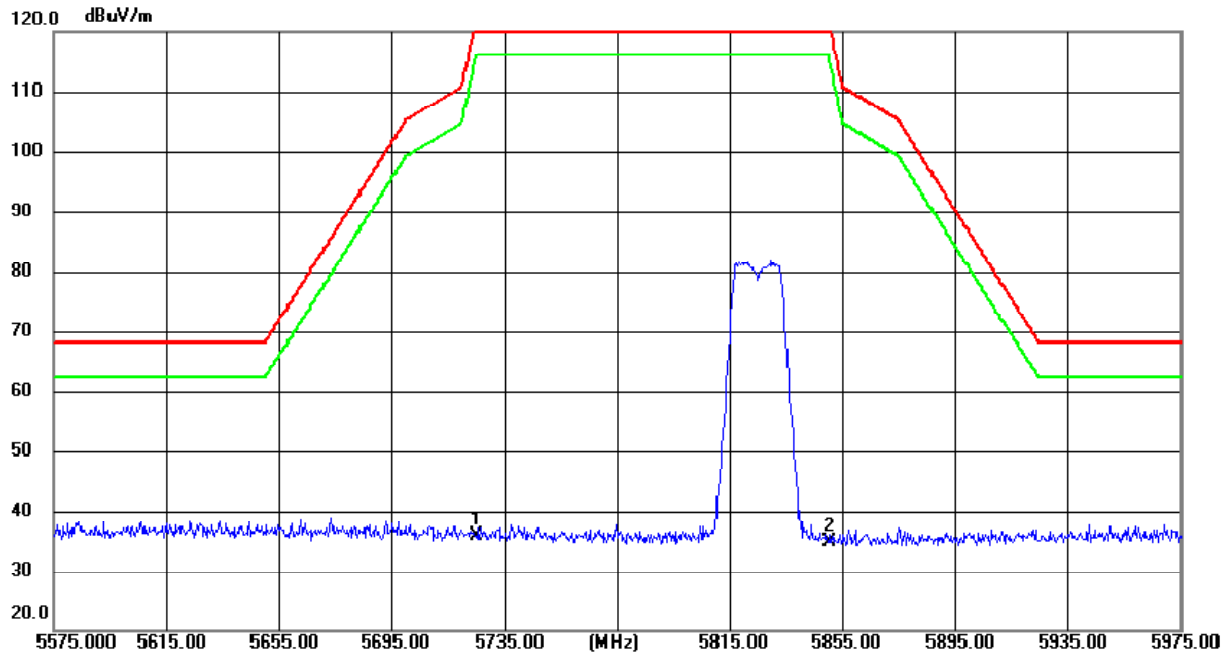


Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5725.000	V	31.83	3.95	35.78	122.20	CH 165
5850.000	V	31.02	3.96	34.98	122.20	CH 165
5725.000	H	33.06	3.95	37.01	122.20	CH 165
5850.000	H	31.65	3.96	35.61	122.20	CH 165

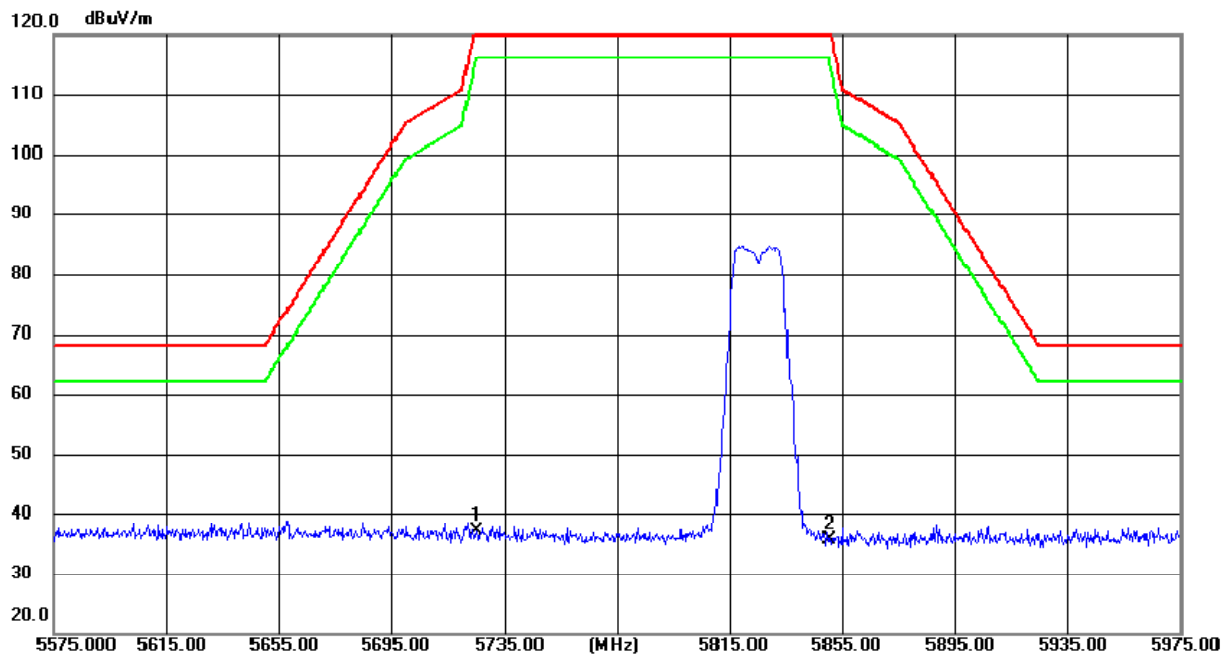
Detector mode: Peak

Polarity: Vertical



Detector mode: Peak

Polarity: Horizontal

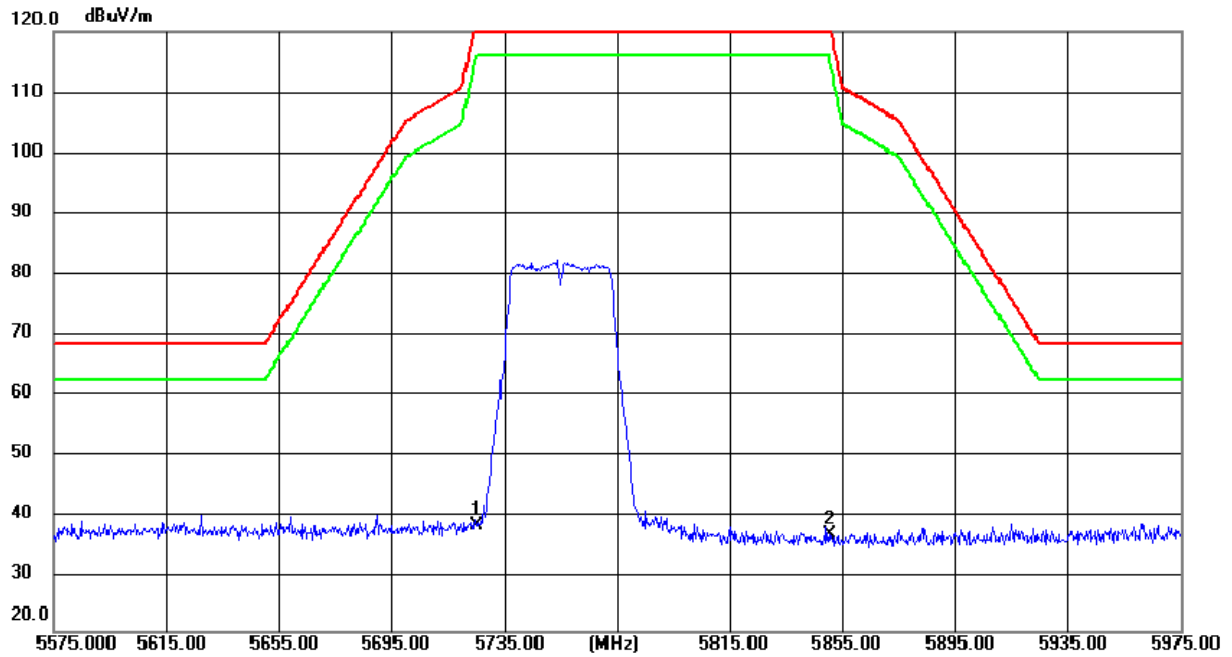


Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuV)	Ant/CF (dB)	Act (dBuV/m)	Limit (dBuV/m)	Note
5725.000	V	33.93	3.95	37.88	122.20	CH 149
5850.000	V	32.41	3.96	36.37	122.20	CH 149
5725.000	H	35.24	3.95	39.19	122.20	CH 149
5850.000	H	32.4	3.96	36.36	122.20	CH 149

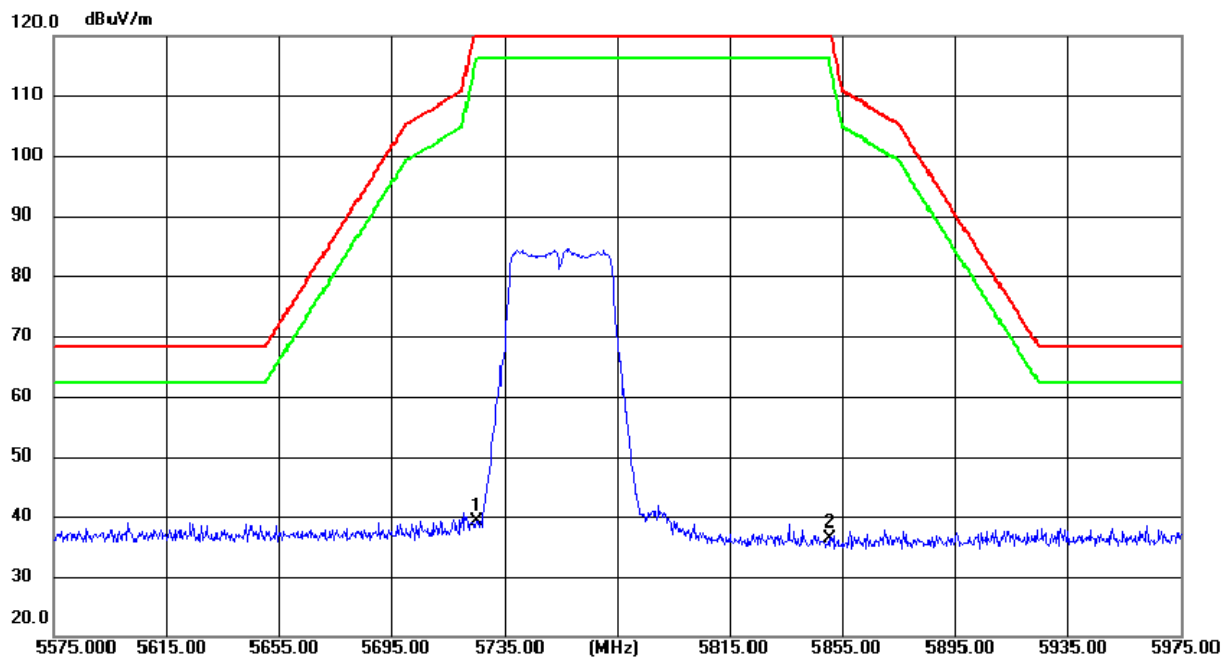
Detector mode: Peak

Polarity: Vertical



Detector mode: Peak

Polarity: Horizontal

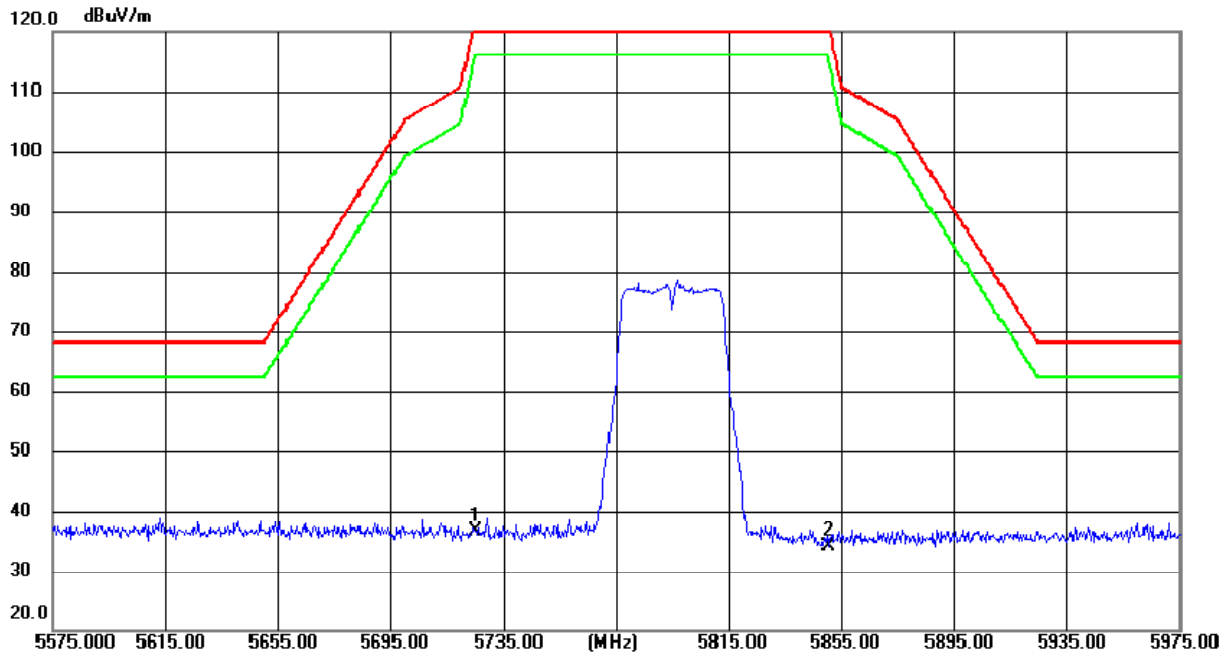


Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5725.000	V	32.6	3.95	36.55	122.20	CH 159
5850.000	V	30.31	3.96	34.27	122.20	CH 159
5725.000	H	32.77	3.95	36.72	122.20	CH 159
5850.000	H	31.93	3.96	35.89	122.20	CH 159

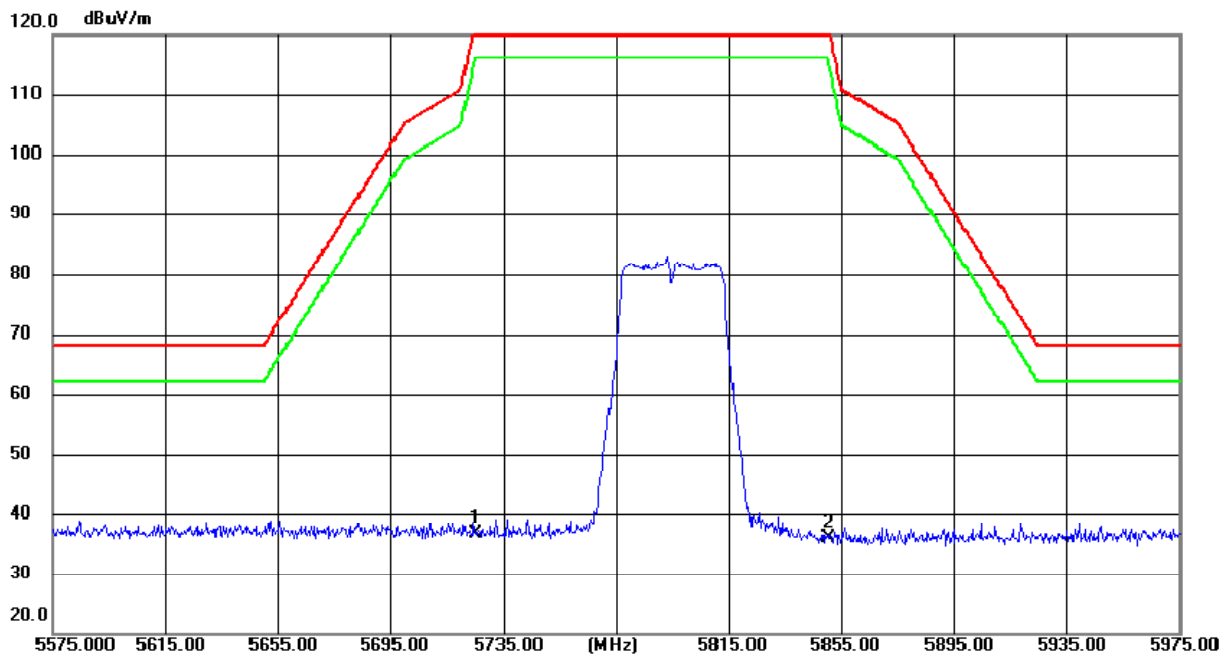
Detector mode: Peak

Polarity: Vertical



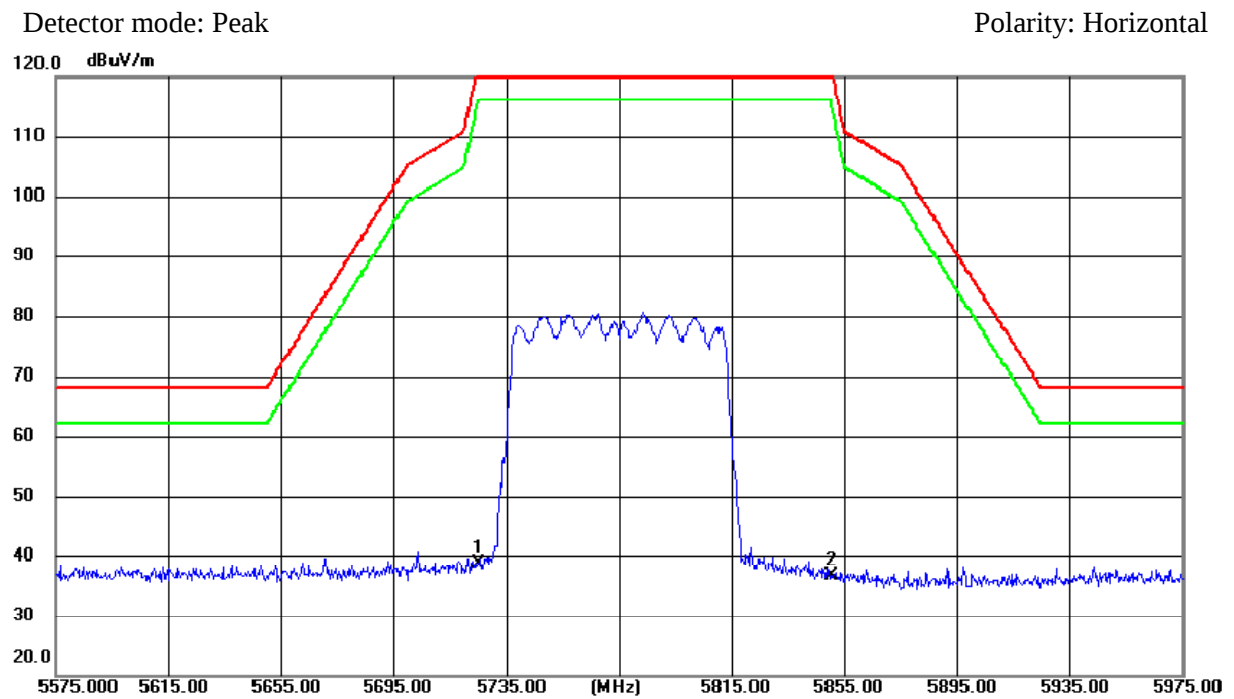
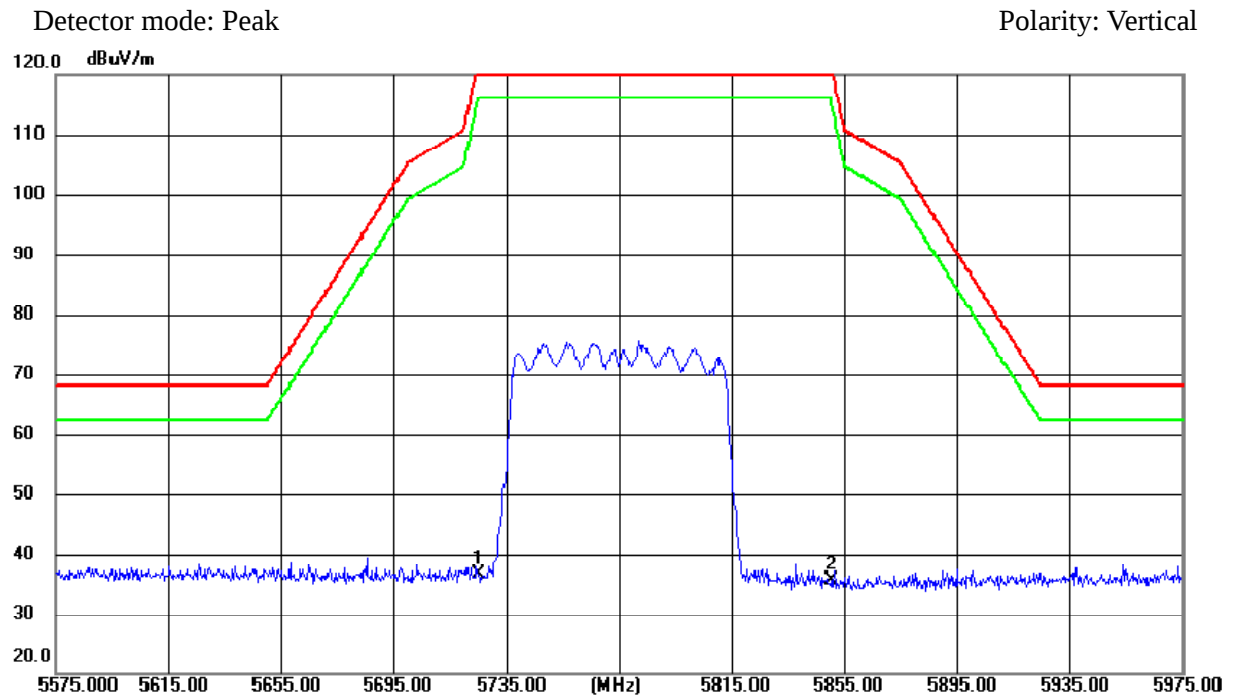
Detector mode: Peak

Polarity: Horizontal



Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Freq. (MHz)	Ant.Pol. H/V	Reading (dBuv)	Ant/CF (dB)	Act (dBuv/m)	Limit (dBuv/m)	Note
5725.000	V	32.64	3.95	36.59	122.20	CH 155
5850.000	V	31.52	3.96	35.48	122.20	CH 155
5725.000	H	34.56	3.95	38.51	122.20	CH 155
5850.000	H	32.73	3.96	36.69	122.20	CH 155



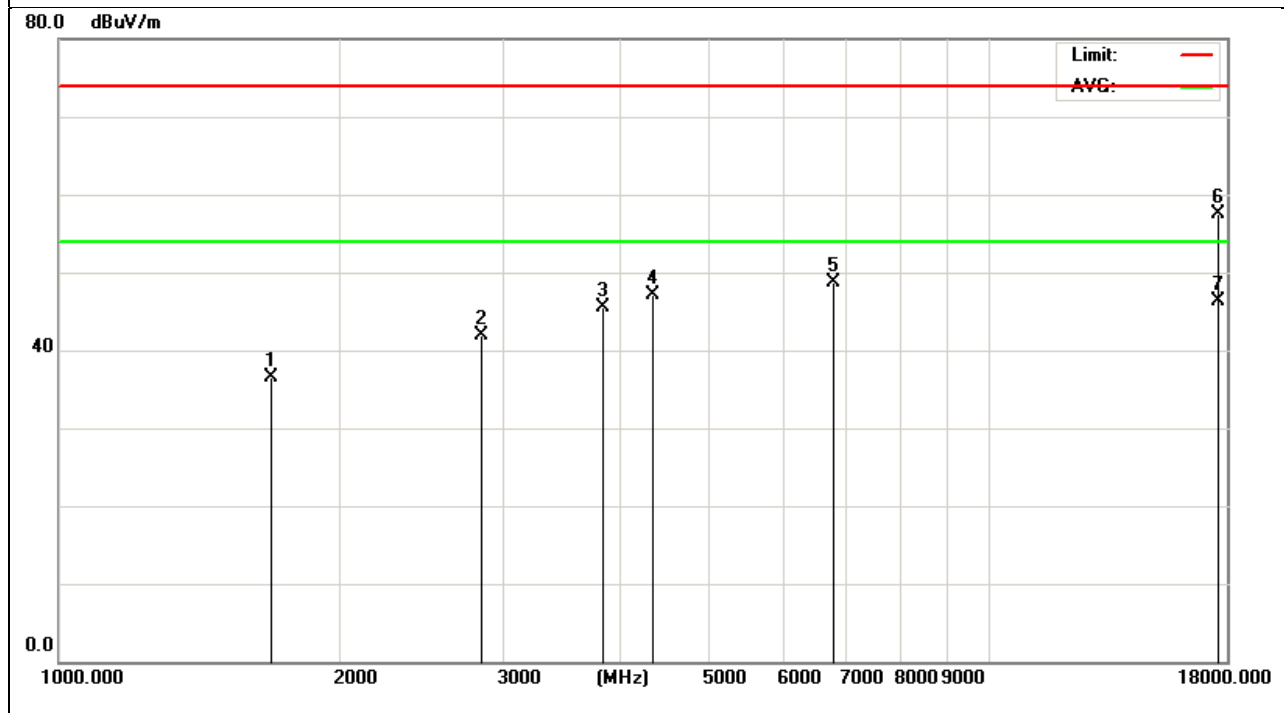
5.9 TEST RESULTS - ABOVE 1000 MHz (HARMONIC)

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1688.541	46.41	-9.66	36.75	74.00	-37.25	peak
2844.156	44.54	-2.65	41.89	74.00	-32.11	peak
3844.002	42.95	2.69	45.64	74.00	-28.36	peak
4330.157	42.83	4.39	47.22	74.00	-26.78	peak
6785.874	42.96	6.03	48.99	74.00	-25.01	peak
17626.069	32.44	24.94	57.38	74.00	-16.62	peak
17626.069	21.63	24.94	46.57	54.00	-7.43	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

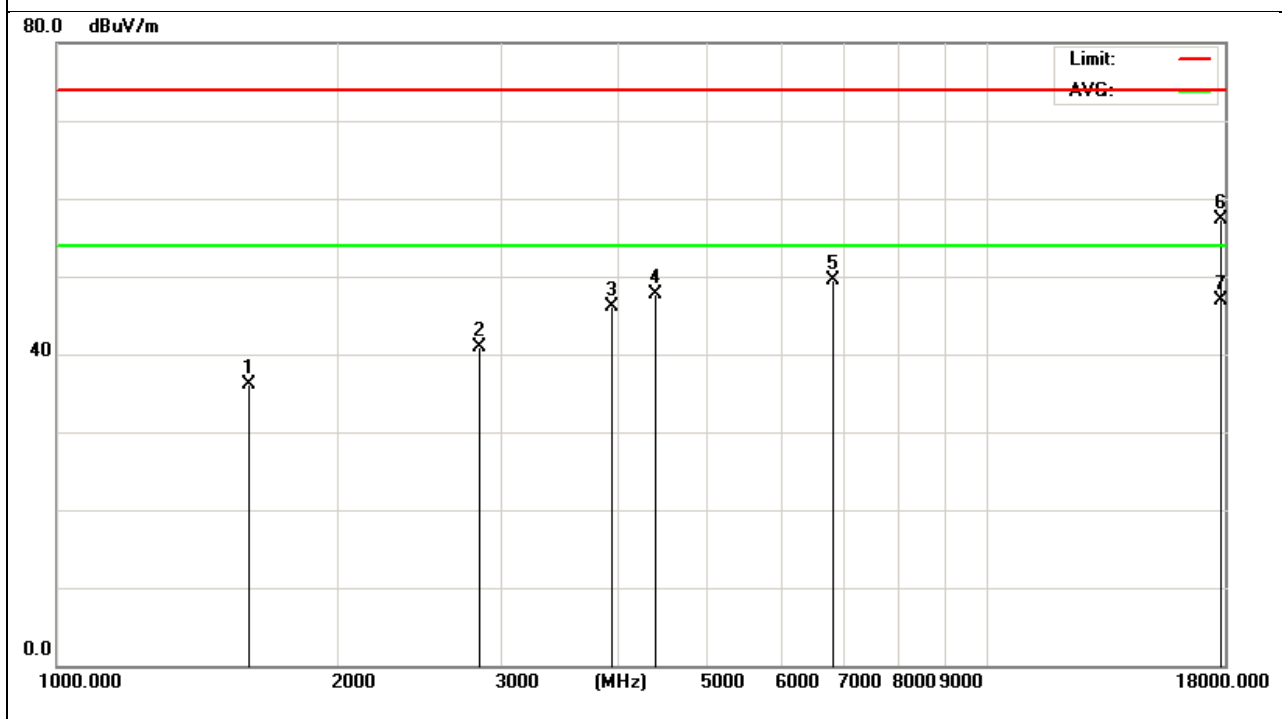


Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1603.514	46.12	-9.89	36.23	74.00	-37.77	peak
2843.274	43.62	-2.64	40.98	74.00	-33.02	peak
3944.115	42.71	3.43	46.14	74.00	-27.86	peak
4388.389	43.29	4.50	47.79	74.00	-26.21	peak
6832.440	43.48	6.08	49.56	74.00	-24.44	peak
17756.554	32.57	24.85	57.42	74.00	-16.58	peak
17756.554	22.17	24.85	47.02	54.00	-6.98	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

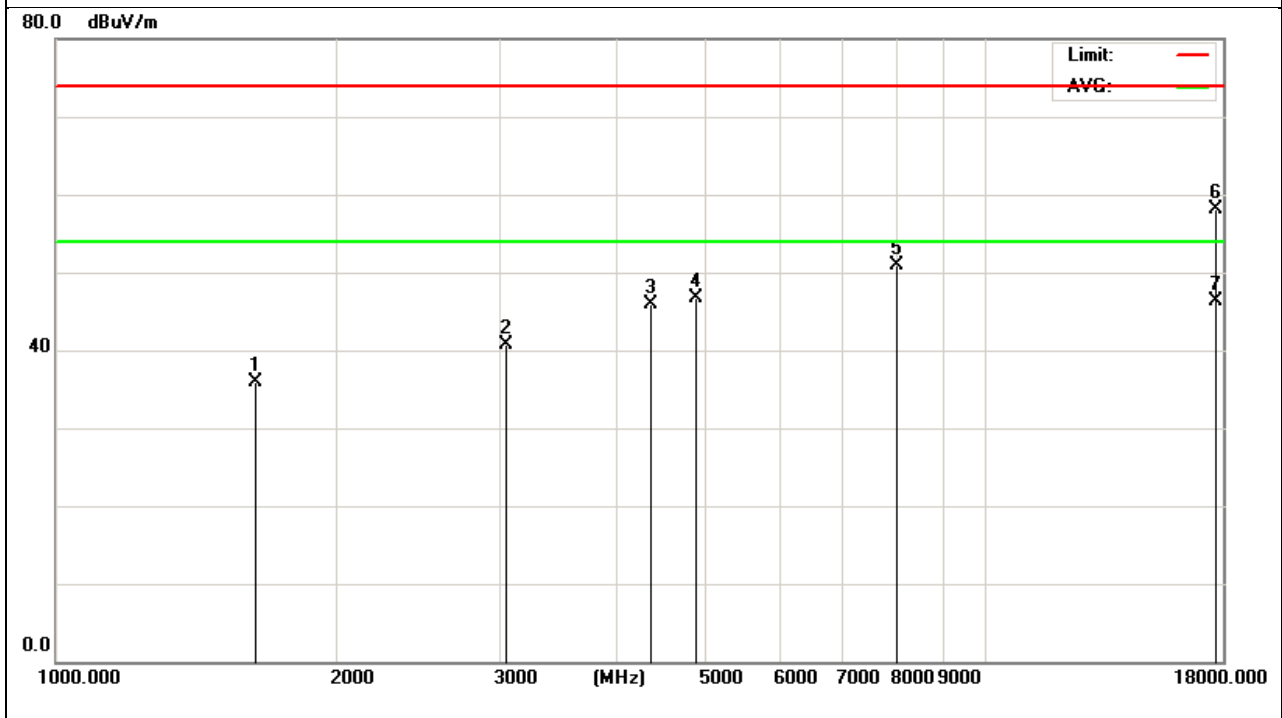


Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1637.886	45.77	-9.80	35.97	74.00	-38.03	peak
3046.768	42.19	-1.57	40.62	74.00	-33.38	peak
4366.998	41.36	4.46	45.82	74.00	-28.18	peak
4860.054	41.55	5.12	46.67	74.00	-27.33	peak
8016.224	40.58	10.40	50.98	74.00	-23.02	peak
17689.857	33.26	24.90	58.16	74.00	-15.84	peak
17689.857	21.46	24.90	46.36	54.00	-7.64	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

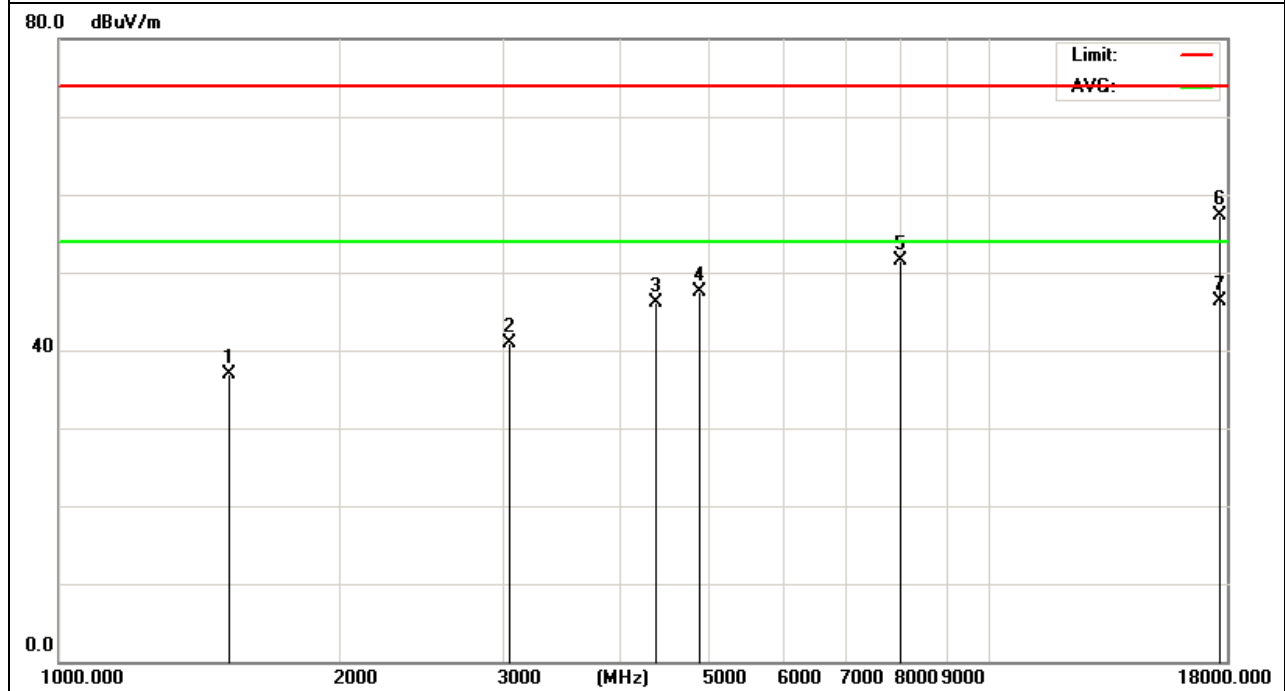


Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1521.369	46.74	-9.86	36.88	74.00	-37.12	peak
3045.528	42.39	-1.57	40.82	74.00	-33.18	peak
4369.493	41.58	4.47	46.05	74.00	-27.95	peak
4866.065	42.36	5.13	47.49	74.00	-26.51	peak
8014.432	41.15	10.40	51.55	74.00	-22.45	peak
17689.301	32.49	24.90	57.39	74.00	-16.61	peak
17689.301	21.46	24.90	46.36	54.00	-7.64	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

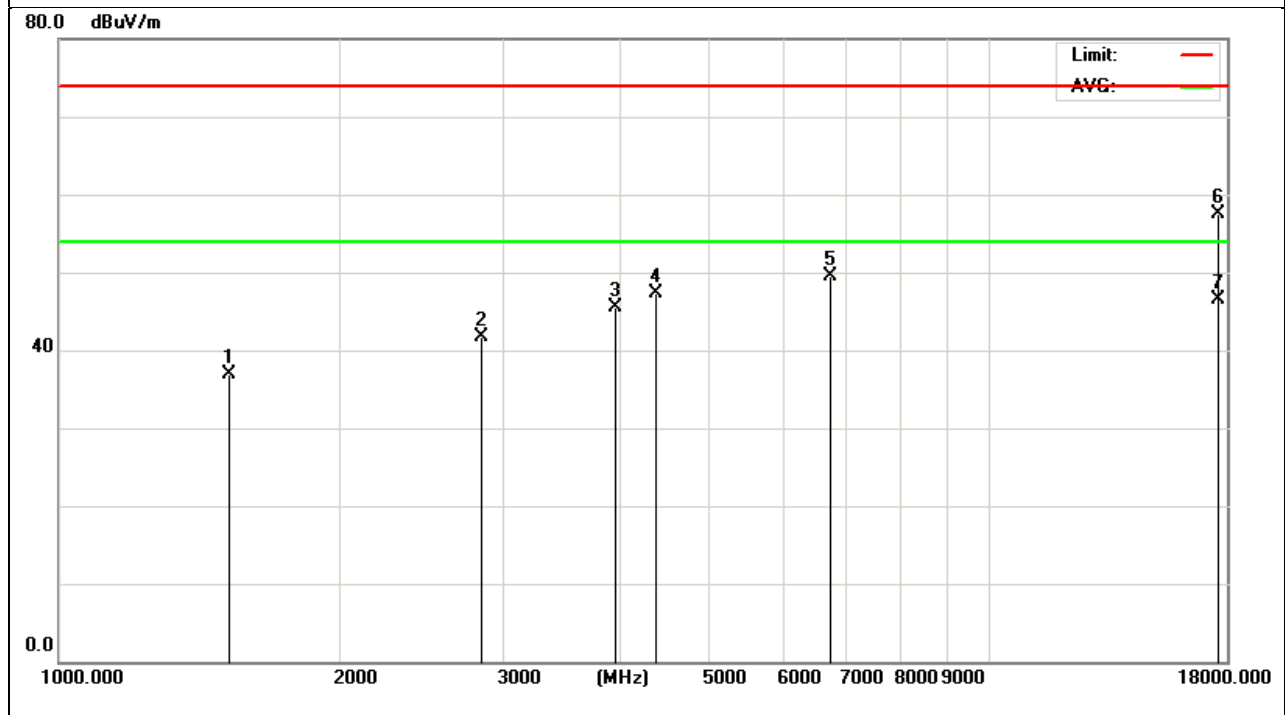


Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1521.557	46.67	-9.86	36.81	74.00	-37.19	peak
2843.314	44.25	-2.64	41.61	74.00	-32.39	peak
3948.565	42.13	3.46	45.59	74.00	-28.41	peak
4367.528	42.89	4.46	47.35	74.00	-26.65	peak
6749.631	43.46	6.01	49.47	74.00	-24.53	peak
17596.587	32.58	24.97	57.55	74.00	-16.45	peak
17596.587	21.63	24.97	46.60	54.00	-7.40	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

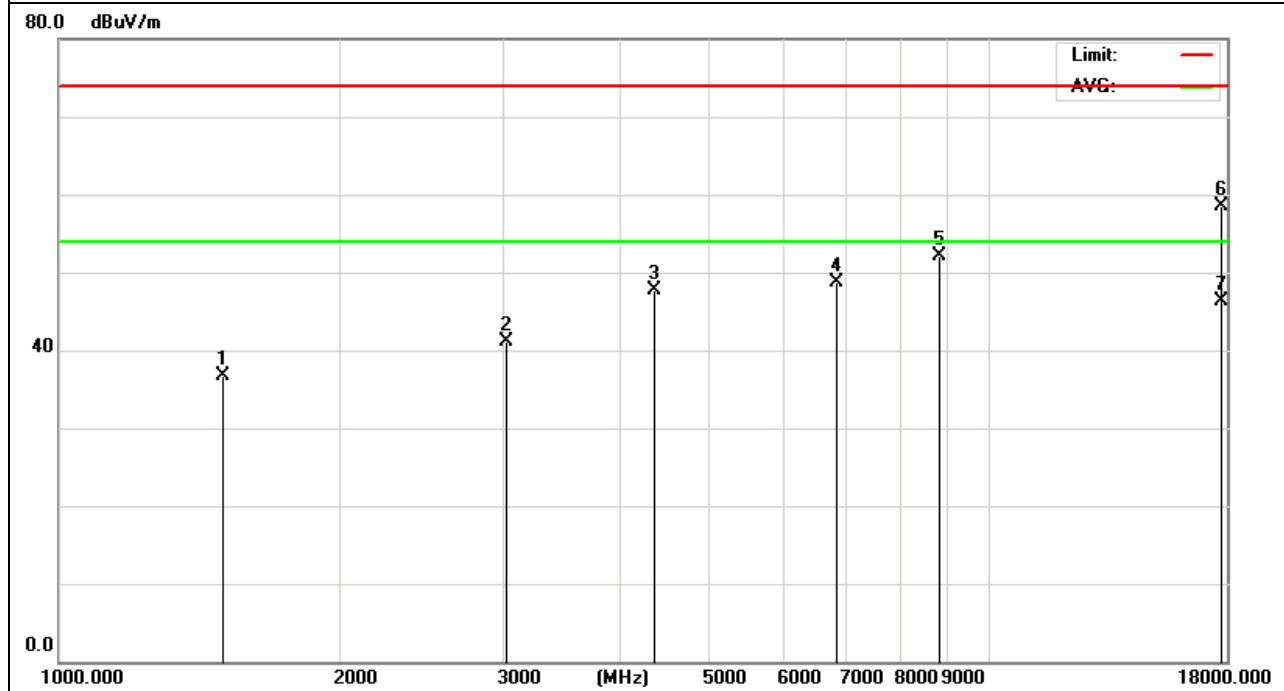


Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1496.891	46.57	-9.86	36.71	74.00	-37.29	peak
3018.546	42.79	-1.64	41.15	74.00	-32.85	peak
4362.247	43.15	4.46	47.61	74.00	-26.39	peak
6842.566	42.63	6.08	48.71	74.00	-25.29	peak
8826.203	41.49	10.62	52.11	74.00	-21.89	peak
17691.152	33.58	24.90	58.48	74.00	-15.52	peak
17691.152	21.36	24.90	46.26	54.00	-7.74	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

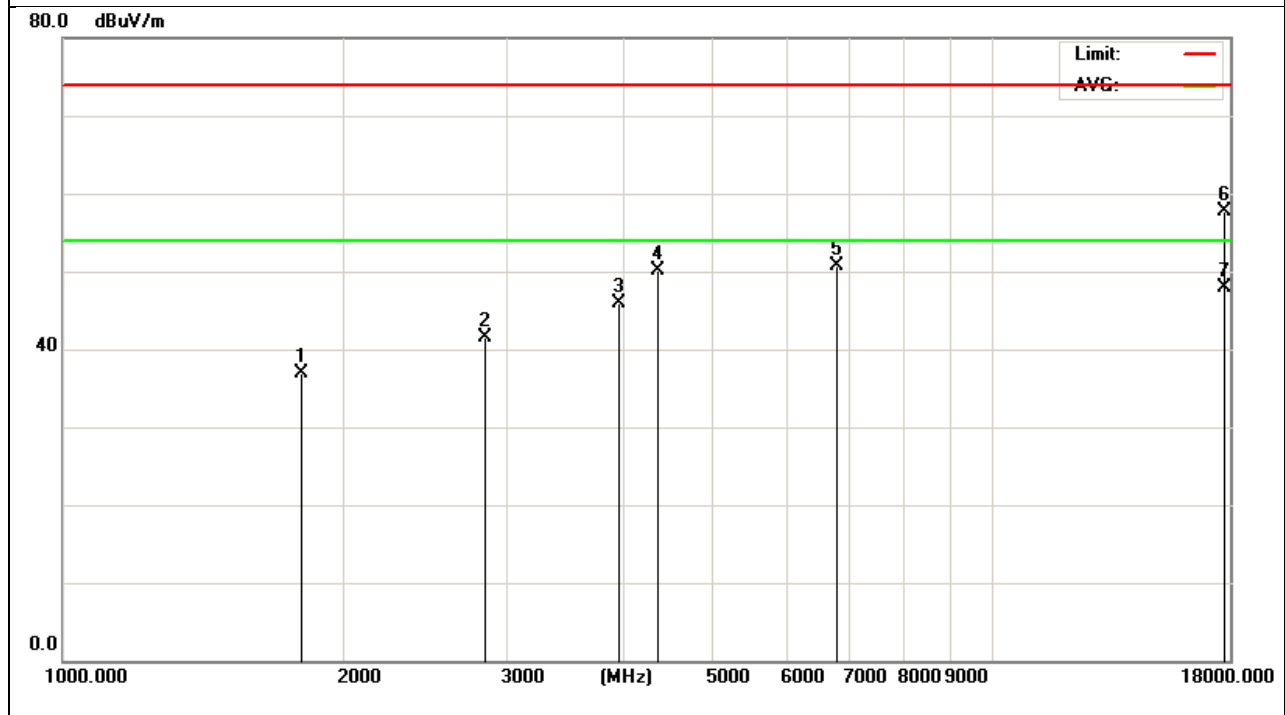


Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1799.248	46.27	-9.34	36.93	74.00	-37.07	peak
2839.636	44.22	-2.66	41.56	74.00	-32.44	peak
3955.024	42.39	3.51	45.90	74.00	-28.10	peak
4365.258	45.56	4.46	50.02	74.00	-23.98	peak
6788.631	44.71	6.04	50.75	74.00	-23.25	peak
17696.323	32.89	24.89	57.78	74.00	-16.22	peak
17696.323	23.05	24.89	47.94	54.00	-6.06	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

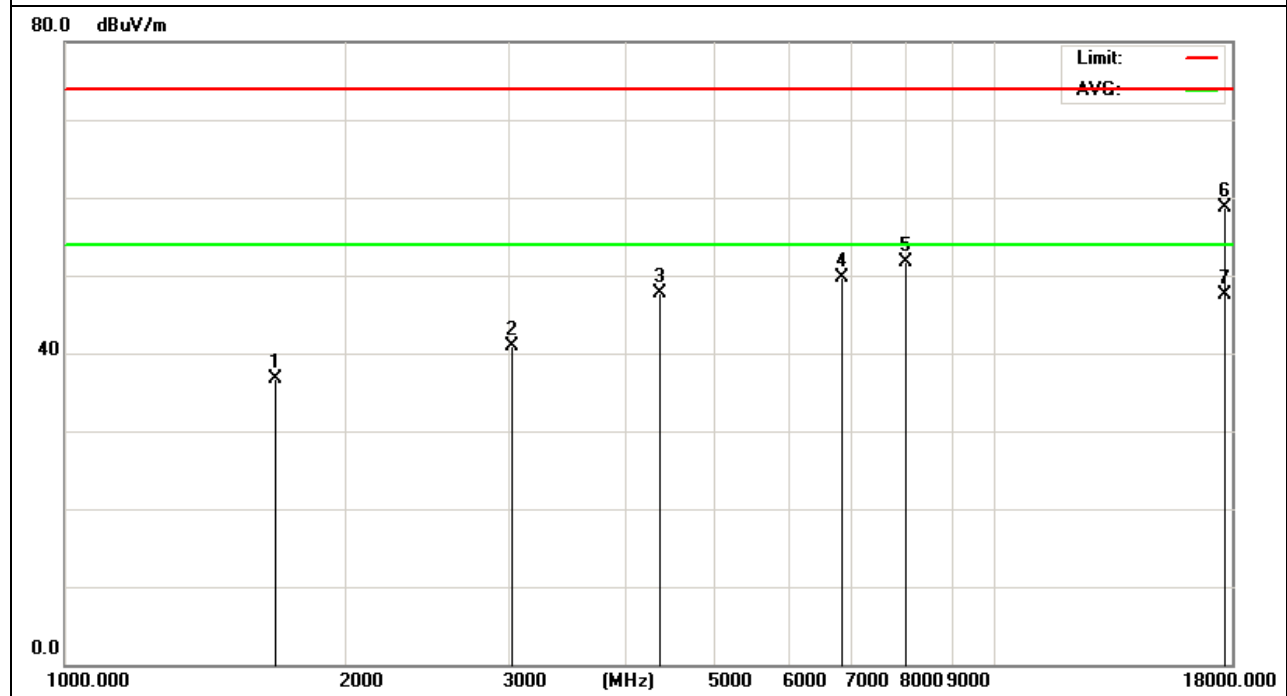


Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1687.229	46.28	-9.66	36.62	74.00	-37.38	peak
3016.679	42.59	-1.64	40.95	74.00	-33.05	peak
4358.264	43.17	4.45	47.62	74.00	-26.38	peak
6846.542	43.54	6.08	49.62	74.00	-24.38	peak
8001.326	41.23	10.38	51.61	74.00	-22.39	peak
17669.158	33.78	24.91	58.69	74.00	-15.31	peak
17669.158	22.63	24.91	47.54	54.00	-6.46	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

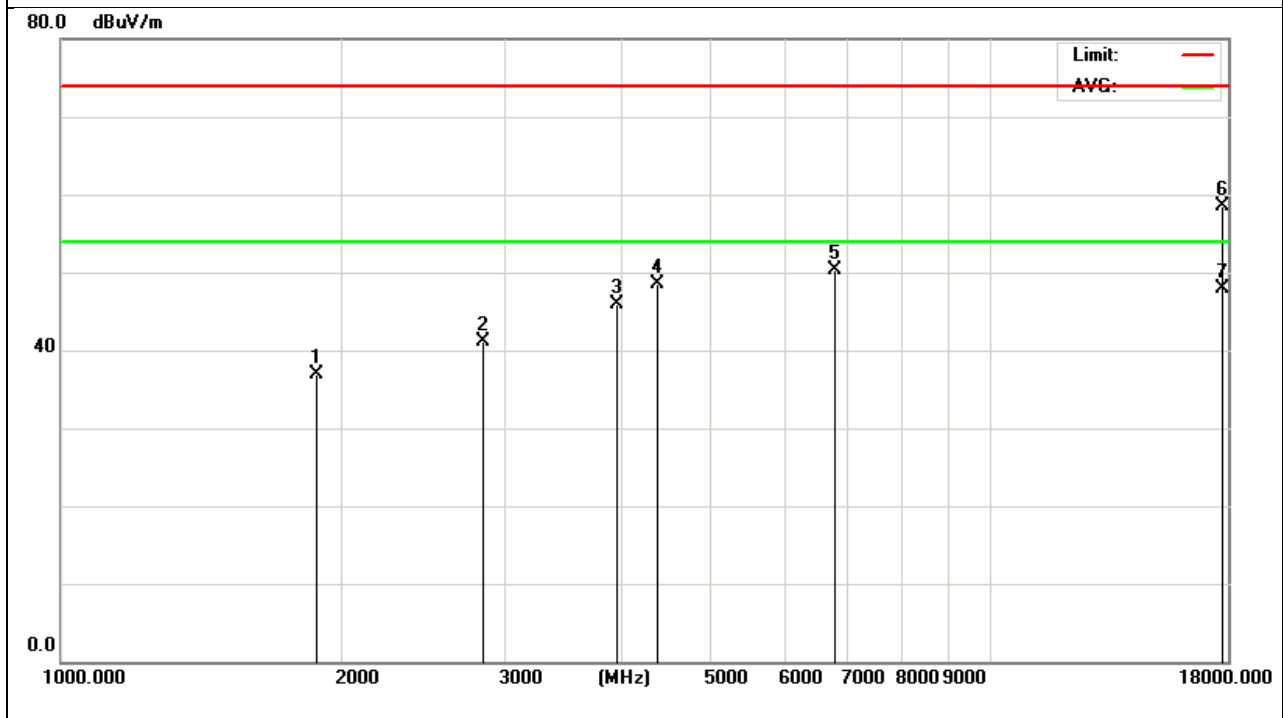


Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1881.329	46.41	-9.49	36.92	74.00	-37.08	peak
2844.362	43.67	-2.64	41.03	74.00	-32.97	peak
3948.206	42.50	3.46	45.96	74.00	-28.04	peak
4377.478	43.97	4.49	48.46	74.00	-25.54	peak
6780.319	44.32	6.04	50.36	74.00	-23.64	peak
17702.898	33.63	24.89	58.52	74.00	-15.48	peak
17702.898	22.98	24.89	47.87	54.00	-6.13	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

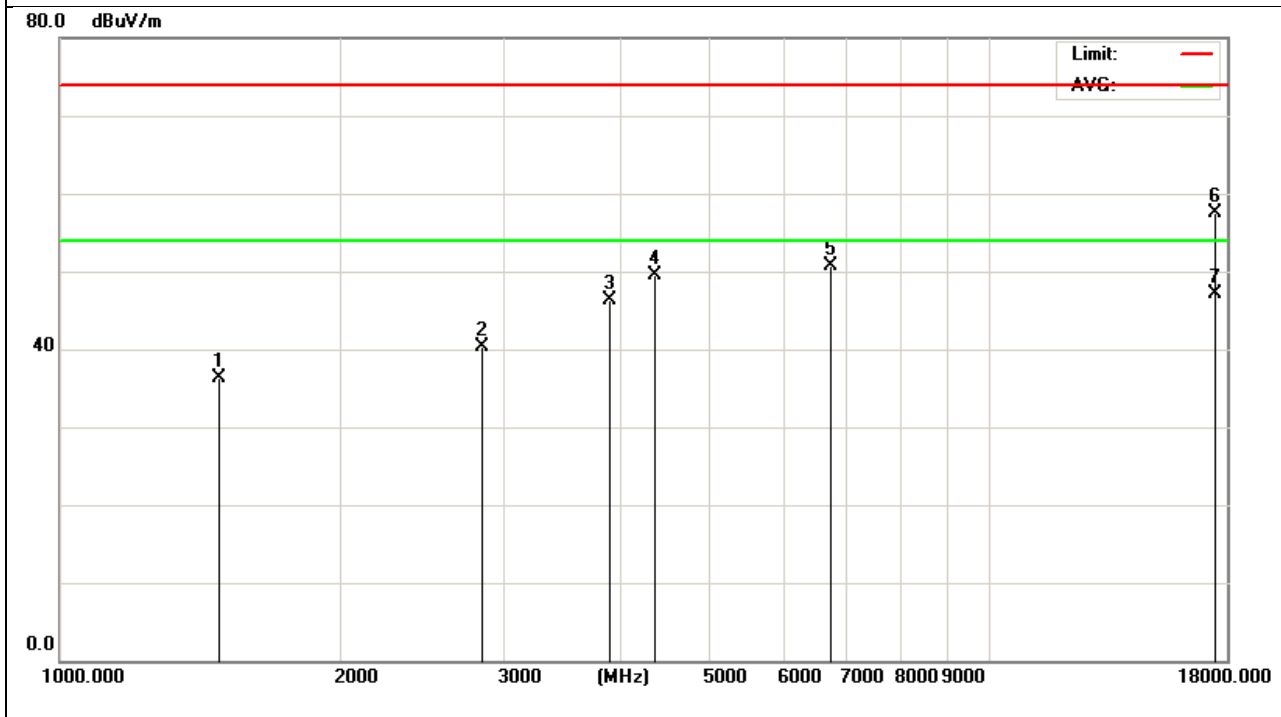


Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1478.524	46.23	-9.95	36.28	74.00	-37.72	peak
2844.687	42.97	-2.64	40.33	74.00	-33.67	peak
3899.986	43.11	3.11	46.22	74.00	-27.78	peak
4358.360	45.03	4.45	49.48	74.00	-24.52	peak
6733.691	44.69	6.01	50.70	74.00	-23.30	peak
17458.224	32.58	24.98	57.56	74.00	-16.44	peak
17458.224	22.22	24.98	47.20	54.00	-6.80	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

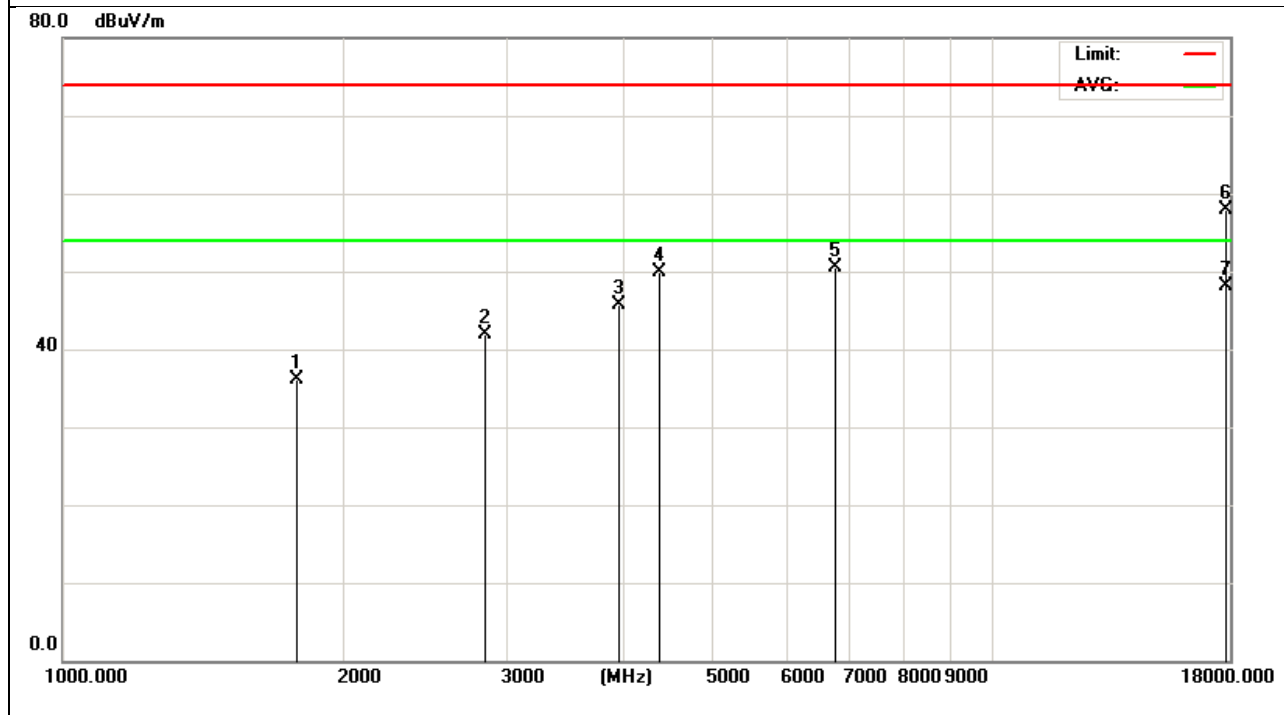


Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1778.659	45.44	-9.40	36.04	74.00	-37.96	peak
2846.647	44.53	-2.63	41.90	74.00	-32.10	peak
3955.418	42.28	3.51	45.79	74.00	-28.21	peak
4369.269	45.36	4.47	49.83	74.00	-24.17	peak
6775.004	44.56	6.03	50.59	74.00	-23.41	peak
17785.000	33.00	24.83	57.83	74.00	-16.17	peak
17785.000	23.36	24.83	48.19	54.00	-5.81	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

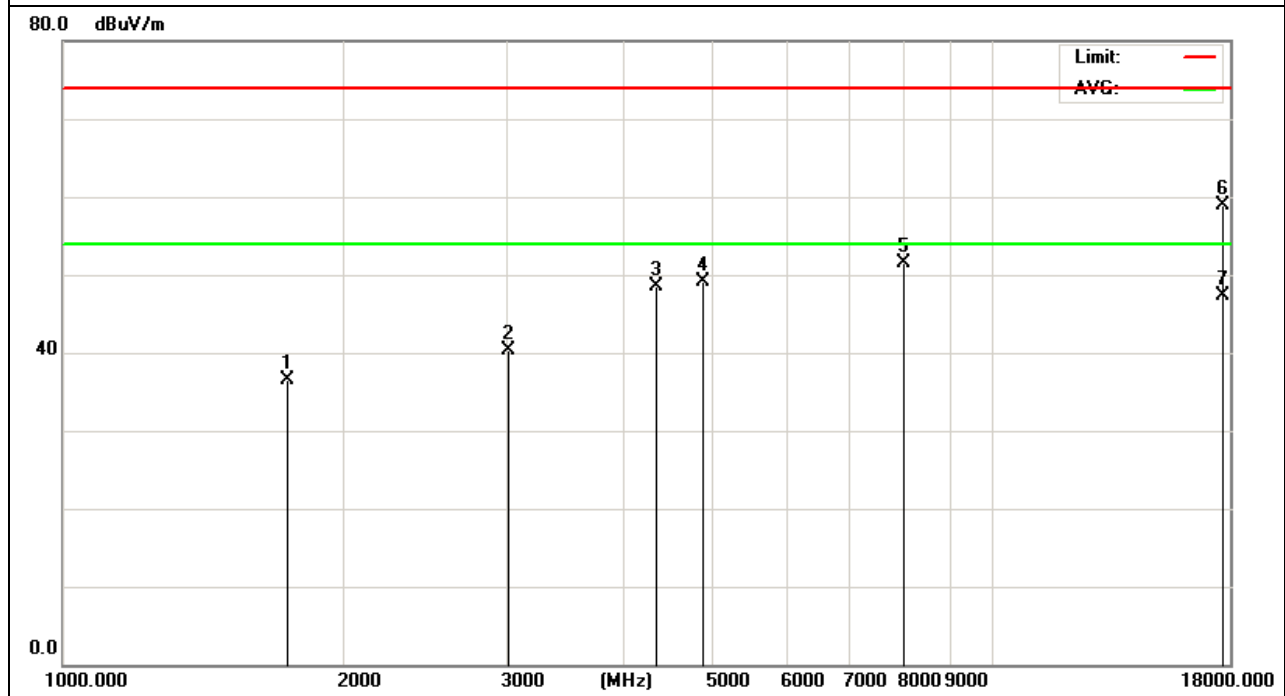


Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1741.203	46.03	-9.52	36.51	74.00	-37.49	peak
3011.256	41.89	-1.65	40.24	74.00	-33.76	peak
4354.269	44.02	4.44	48.46	74.00	-25.54	peak
4863.479	43.97	5.13	49.10	74.00	-24.90	peak
8014.547	41.02	10.40	51.42	74.00	-22.58	peak
17668.230	33.98	24.91	58.89	74.00	-15.11	peak
17668.230	22.36	24.91	47.27	54.00	-6.73	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

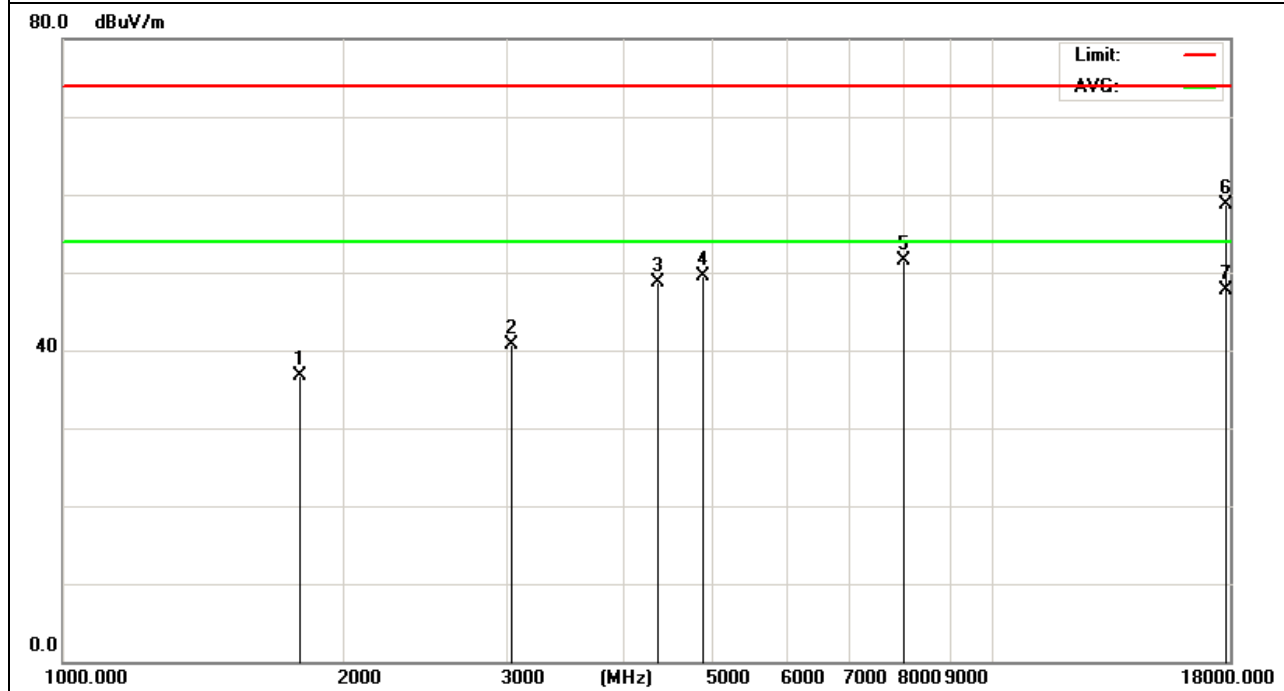


Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1795.255	46.11	-9.35	36.76	74.00	-37.24	peak
3026.136	42.26	-1.62	40.64	74.00	-33.36	peak
4357.225	44.27	4.45	48.72	74.00	-25.28	peak
4865.977	44.36	5.13	49.49	74.00	-24.51	peak
8022.647	41.15	10.41	51.56	74.00	-22.44	peak
17789.265	33.94	24.83	58.77	74.00	-15.23	peak
17789.265	22.97	24.83	47.80	54.00	-6.20	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

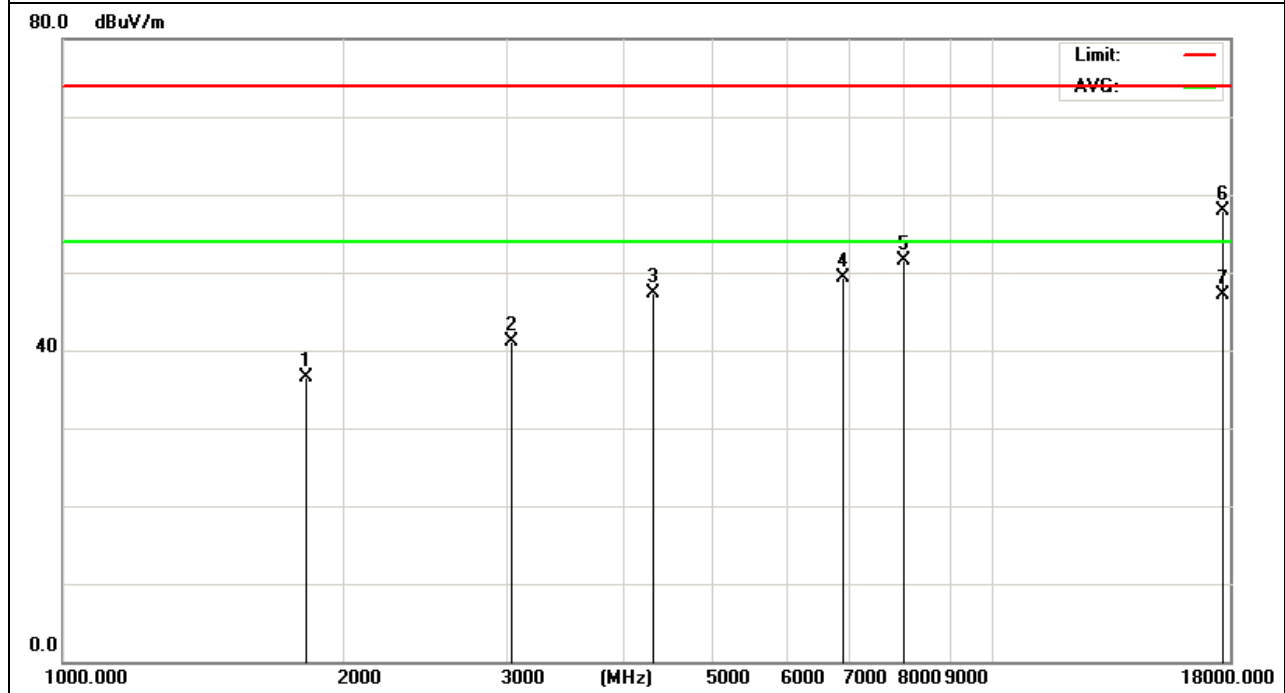


Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1821.113	45.88	-9.38	36.50	74.00	-37.50	peak
3026.028	42.69	-1.62	41.07	74.00	-32.93	peak
4316.677	43.02	4.36	47.38	74.00	-26.62	peak
6887.079	43.27	6.11	49.38	74.00	-24.62	peak
8014.188	41.16	10.40	51.56	74.00	-22.44	peak
17689.059	33.04	24.90	57.94	74.00	-16.06	peak
17689.059	22.17	24.90	47.07	54.00	-6.93	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

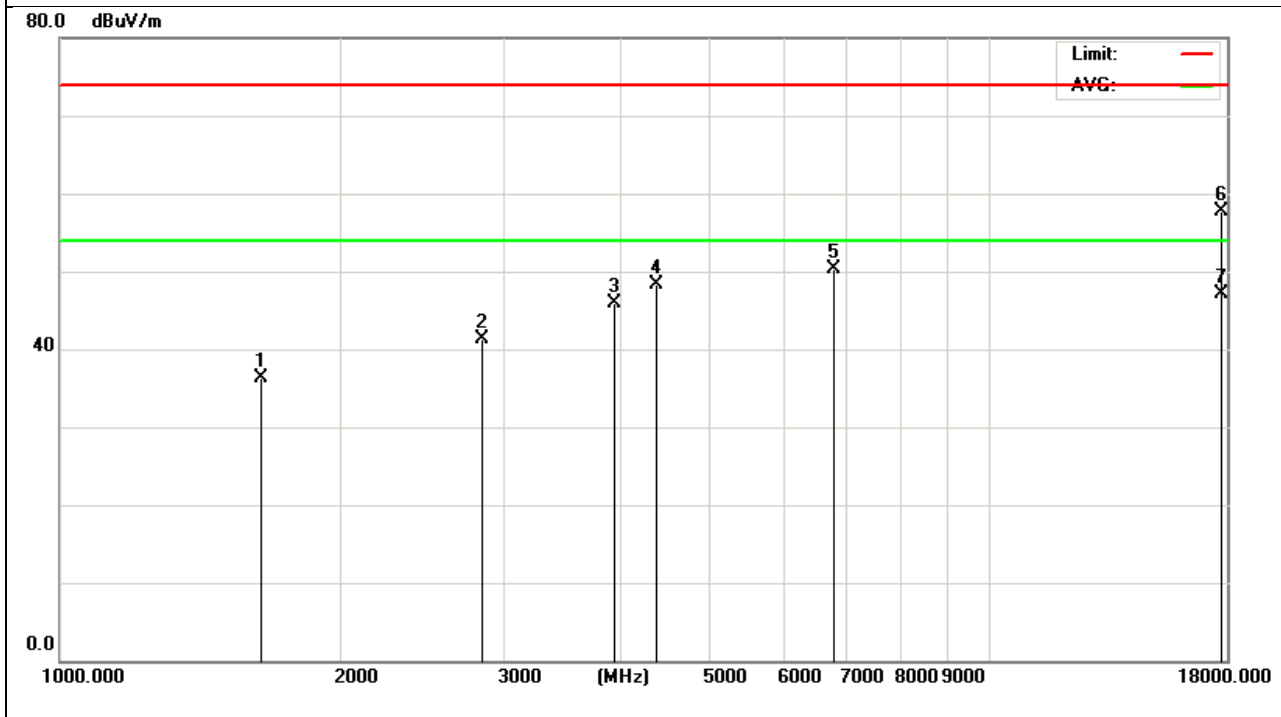


Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5600 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1647.528	46.16	-9.77	36.39	74.00	-37.61	peak
2846.331	44.02	-2.63	41.39	74.00	-32.61	peak
3946.648	42.38	3.44	45.82	74.00	-28.18	peak
4368.851	43.89	4.47	48.36	74.00	-25.64	peak
6789.954	44.26	6.04	50.30	74.00	-23.70	peak
17698.024	32.87	24.89	57.76	74.00	-16.24	peak
17698.024	22.16	24.89	47.05	54.00	-6.95	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

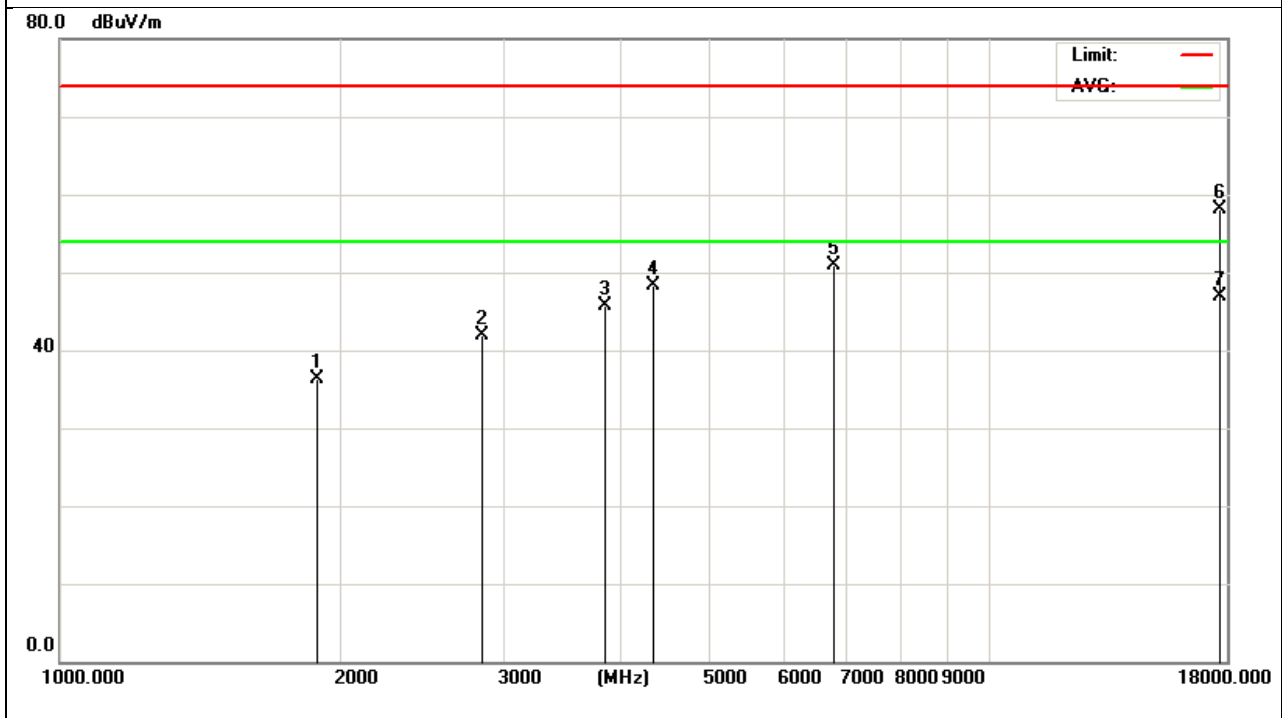


Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5600 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1894.021	45.85	-9.52	36.33	74.00	-37.67	peak
2843.364	44.51	-2.64	41.87	74.00	-32.13	peak
3846.249	43.02	2.71	45.73	74.00	-28.27	peak
4332.024	43.87	4.39	48.26	74.00	-25.74	peak
6789.931	44.89	6.04	50.93	74.00	-23.07	peak
17653.201	33.24	24.93	58.17	74.00	-15.83	peak
17653.201	22.02	24.93	46.95	54.00	-7.05	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

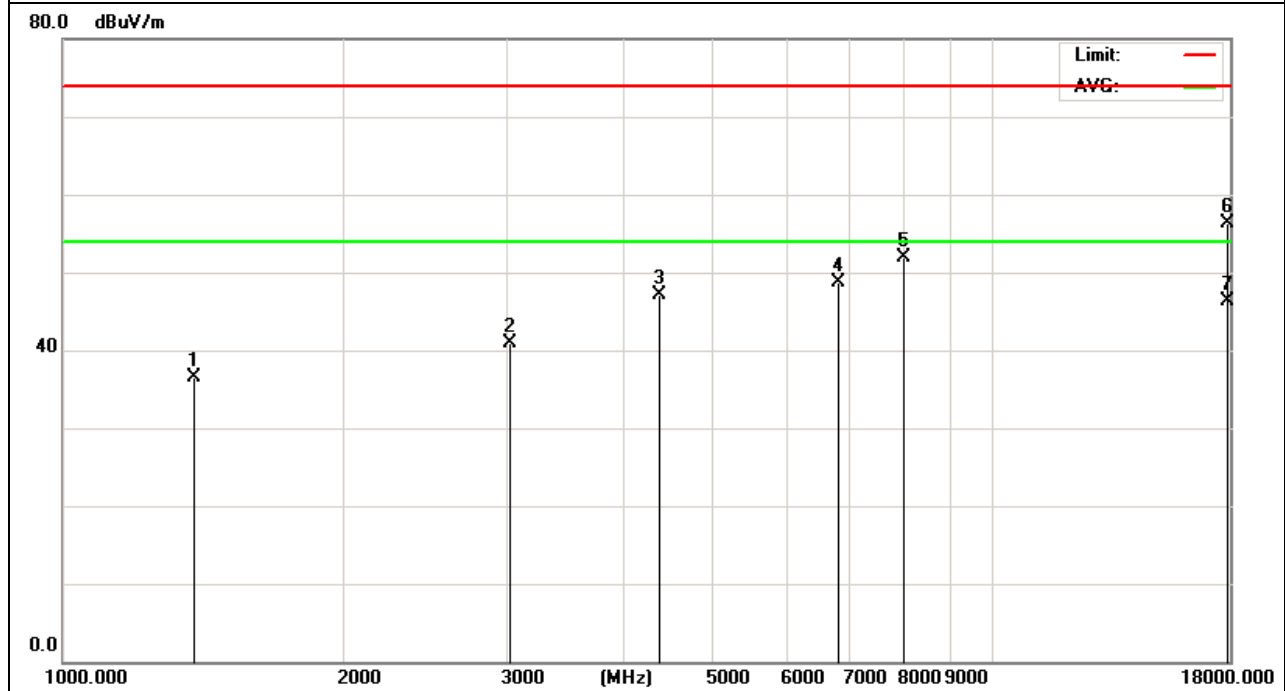


Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1384.226	46.74	-10.30	36.44	74.00	-37.56	peak
3024.247	42.49	-1.62	40.87	74.00	-33.13	peak
4369.785	42.57	4.47	47.04	74.00	-26.96	peak
6829.014	42.63	6.07	48.70	74.00	-25.30	peak
8016.314	41.59	10.40	51.99	74.00	-22.01	peak
17881.032	31.58	24.77	56.35	74.00	-17.65	peak
17881.032	21.63	24.77	46.40	54.00	-7.60	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

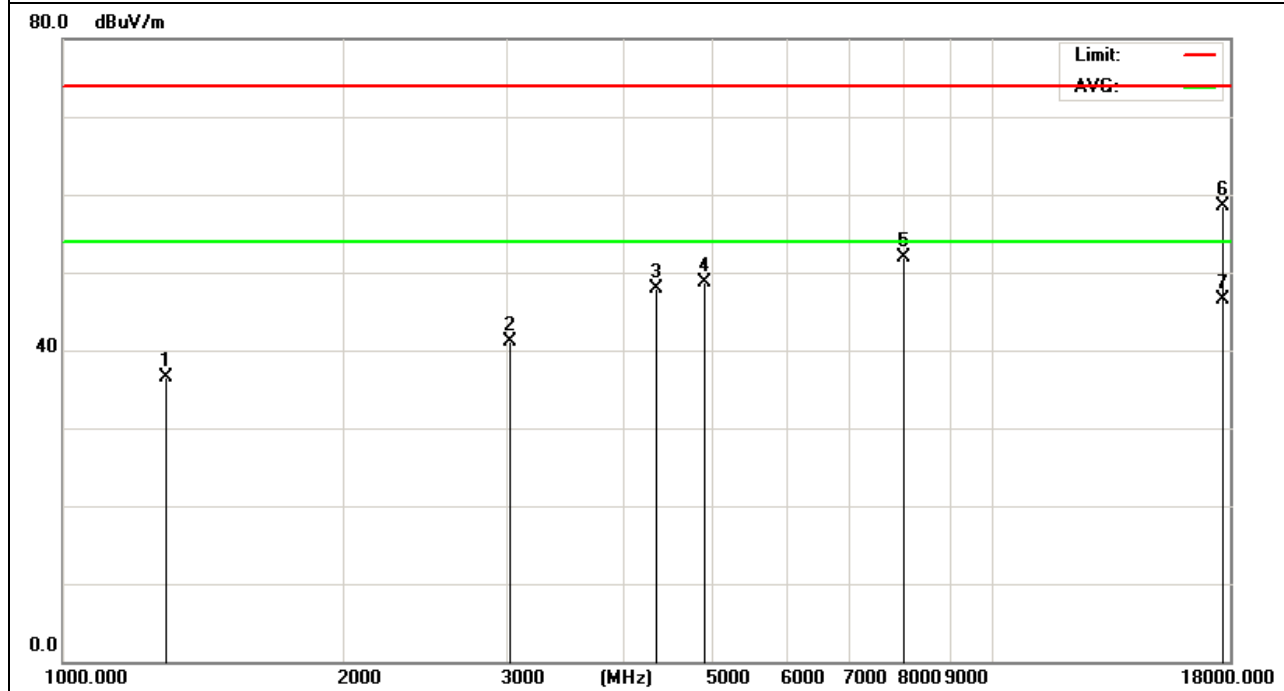


Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1287.631	46.79	-10.37	36.42	74.00	-37.58	peak
3016.983	42.74	-1.64	41.10	74.00	-32.90	peak
4334.752	43.58	4.40	47.98	74.00	-26.02	peak
4889.320	43.63	5.15	48.78	74.00	-25.22	peak
8016.427	41.49	10.40	51.89	74.00	-22.11	peak
17644.328	33.56	24.93	58.49	74.00	-15.51	peak
17644.328	21.57	24.93	46.50	54.00	-7.50	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

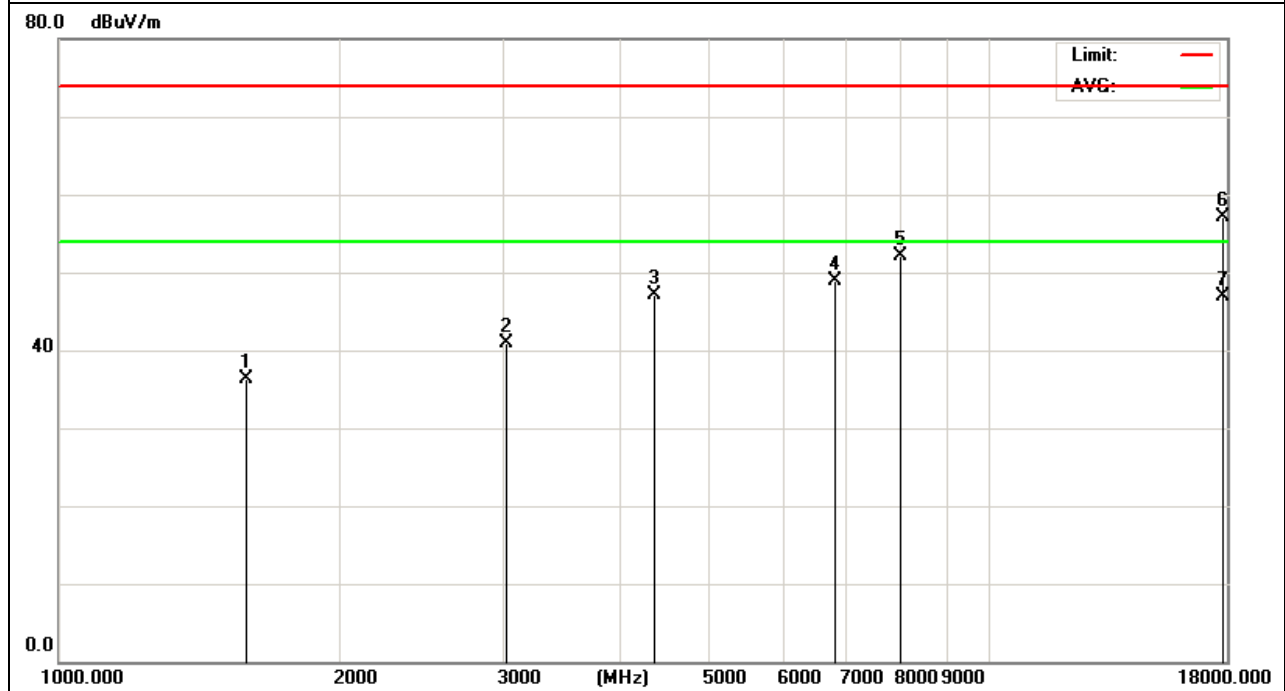


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1592.387	46.14	-9.89	36.25	74.00	-37.75	peak
3025.249	42.55	-1.62	40.93	74.00	-33.07	peak
4365.525	42.63	4.46	47.09	74.00	-26.91	peak
6832.018	42.80	6.07	48.87	74.00	-25.13	peak
8012.642	41.63	10.40	52.03	74.00	-21.97	peak
17801.011	32.25	24.82	57.07	74.00	-16.93	peak
17801.011	22.16	24.82	46.98	54.00	-7.02	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

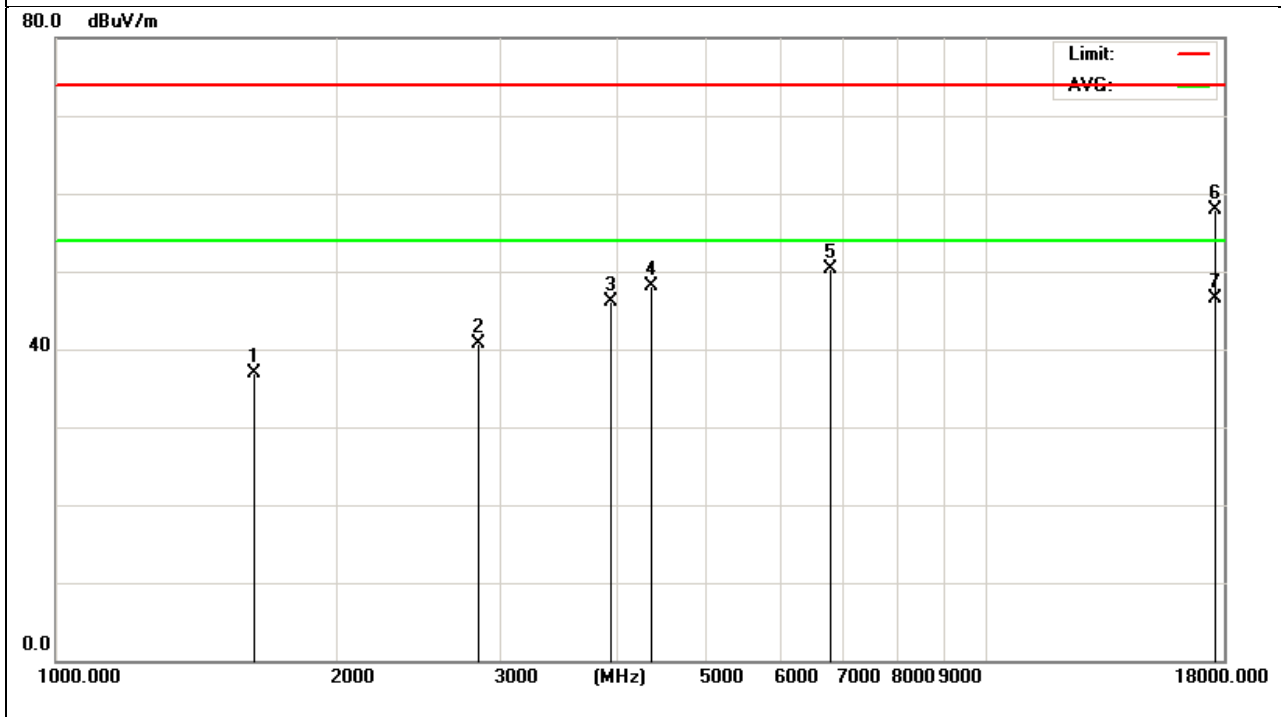


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1631.296	46.63	-9.81	36.82	74.00	-37.18	peak
2841.347	43.41	-2.65	40.76	74.00	-33.24	peak
3946.652	42.58	3.44	46.02	74.00	-27.98	peak
4362.287	43.63	4.46	48.09	74.00	-25.91	peak
6784.693	44.25	6.04	50.29	74.00	-23.71	peak
17583.145	32.89	24.97	57.86	74.00	-16.14	peak
17583.145	21.49	24.97	46.46	54.00	-7.54	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

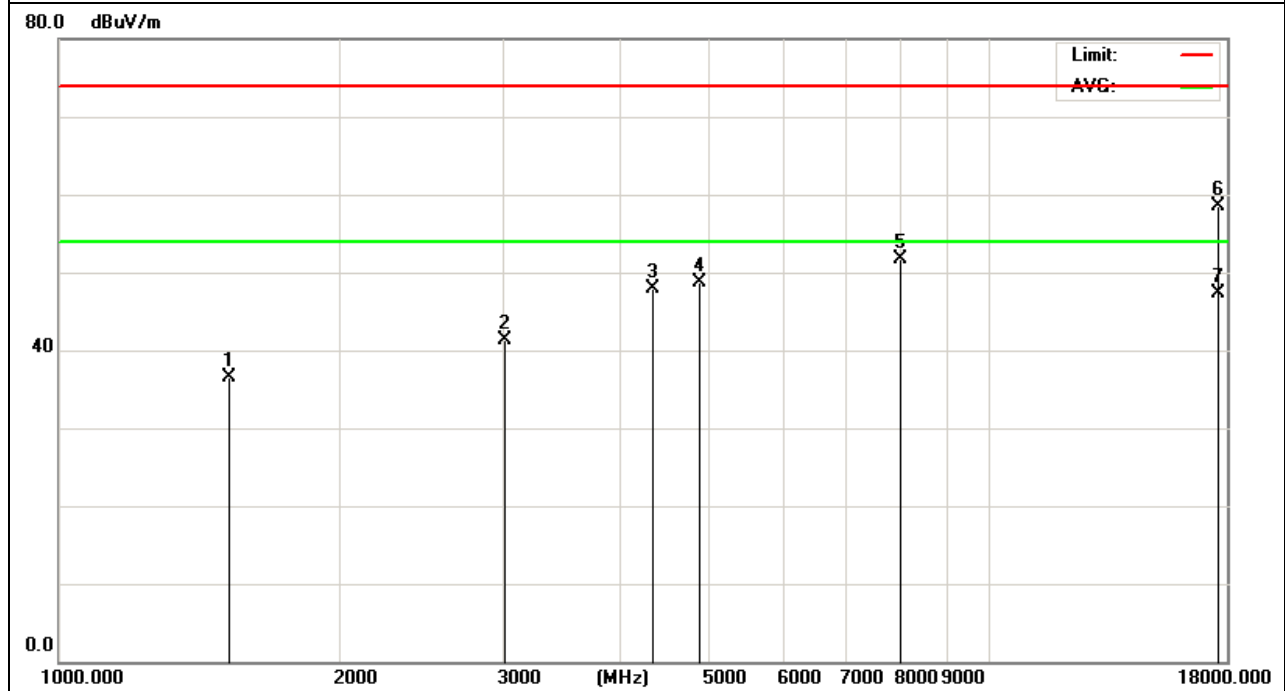


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1521.966	46.37	-9.86	36.51	74.00	-37.49	peak
3015.044	42.86	-1.65	41.21	74.00	-32.79	peak
4339.665	43.54	4.42	47.96	74.00	-26.04	peak
4887.964	43.58	5.15	48.73	74.00	-25.27	peak
8012.632	41.36	10.40	51.76	74.00	-22.24	peak
17593.225	33.57	24.97	58.54	74.00	-15.46	peak
17593.225	22.36	24.97	47.33	54.00	-6.67	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

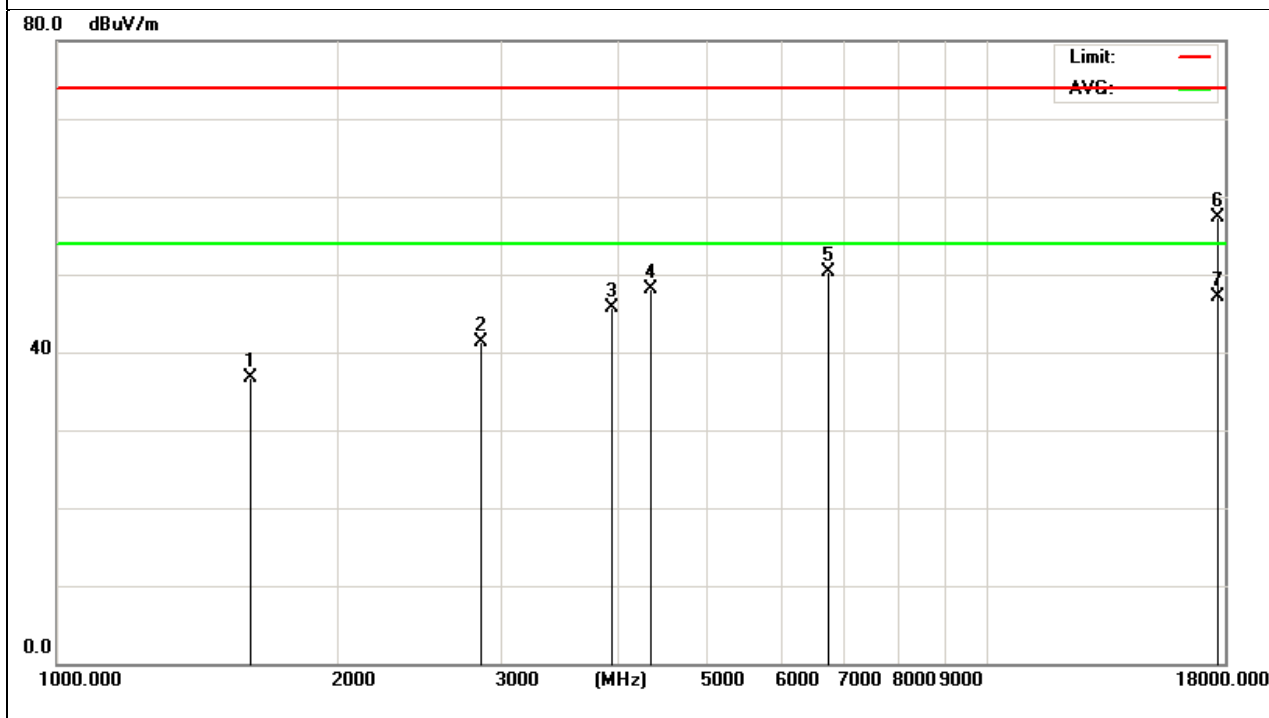


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1611.248	46.54	-9.86	36.68	74.00	-37.32	peak
2849.935	43.87	-2.61	41.26	74.00	-32.74	peak
3946.665	42.36	3.44	45.80	74.00	-28.20	peak
4336.358	43.74	4.40	48.14	74.00	-25.86	peak
6748.625	44.34	6.01	50.35	74.00	-23.65	peak
17687.014	32.36	24.90	57.26	74.00	-16.74	peak
17687.014	22.24	24.90	47.14	54.00	-6.86	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

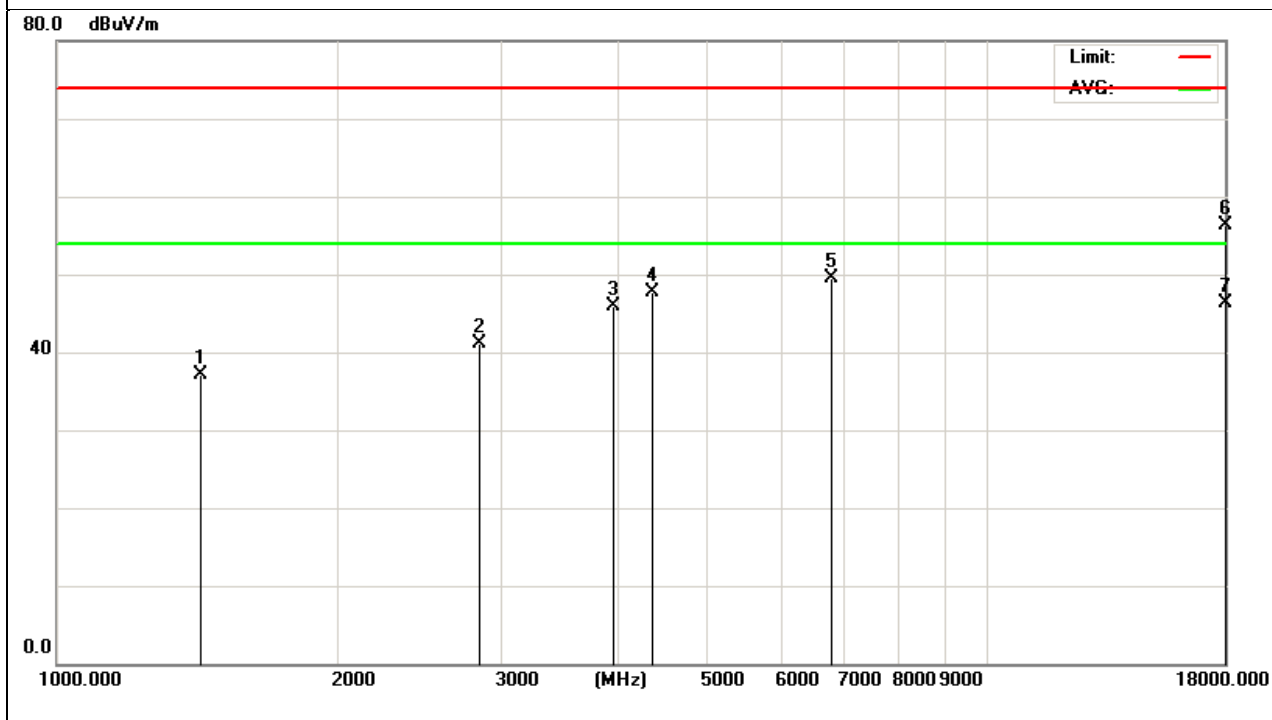


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1423.692	47.25	-10.20	37.05	74.00	-36.95	peak
2846.547	43.69	-2.63	41.06	74.00	-32.94	peak
3949.663	42.34	3.47	45.81	74.00	-28.19	peak
4365.528	43.25	4.46	47.71	74.00	-26.29	peak
6785.664	43.49	6.04	49.53	74.00	-24.47	peak
17951.365	31.58	24.71	56.29	74.00	-17.71	peak
17951.365	21.65	24.71	46.36	54.00	-7.64	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

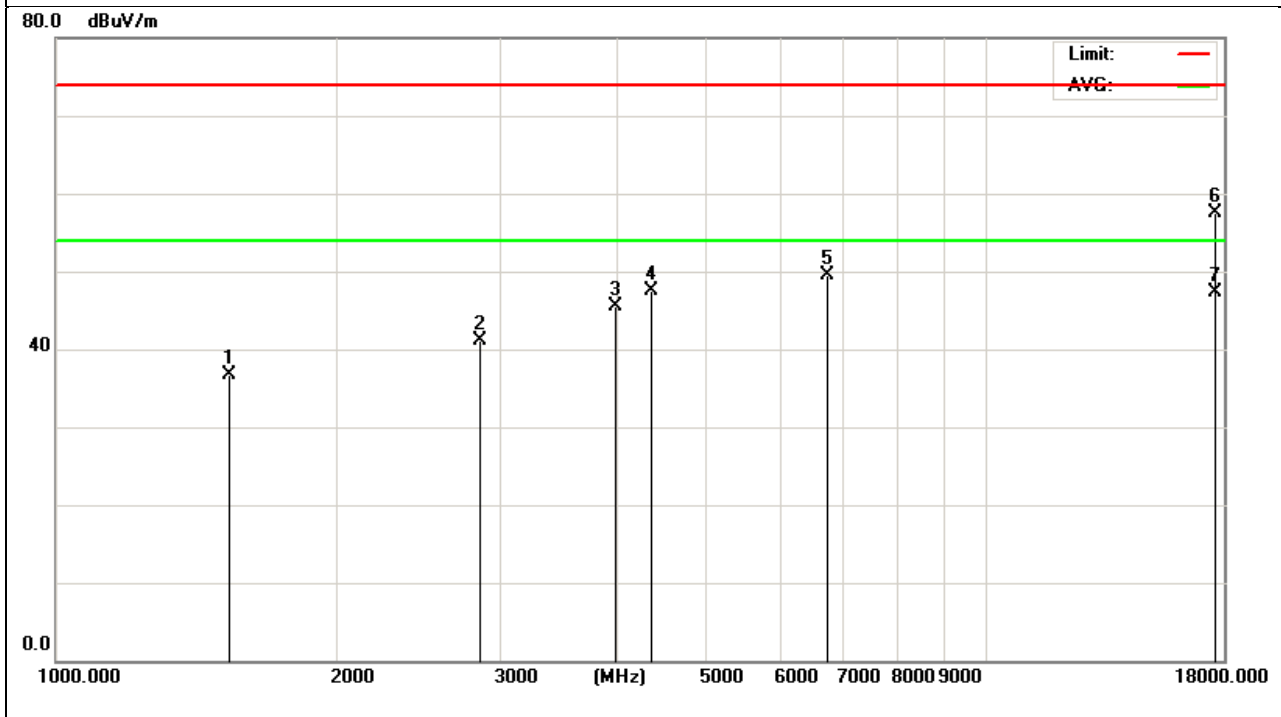


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1532.326	46.57	-9.86	36.71	74.00	-37.29	peak
2847.549	43.63	-2.62	41.01	74.00	-32.99	peak
3985.436	41.85	3.74	45.59	74.00	-28.41	peak
4366.587	42.98	4.46	47.44	74.00	-26.56	peak
6749.325	43.47	6.01	49.48	74.00	-24.52	peak
17546.365	32.58	25.00	57.58	74.00	-16.42	peak
17546.365	22.24	25.00	47.24	54.00	-6.76	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

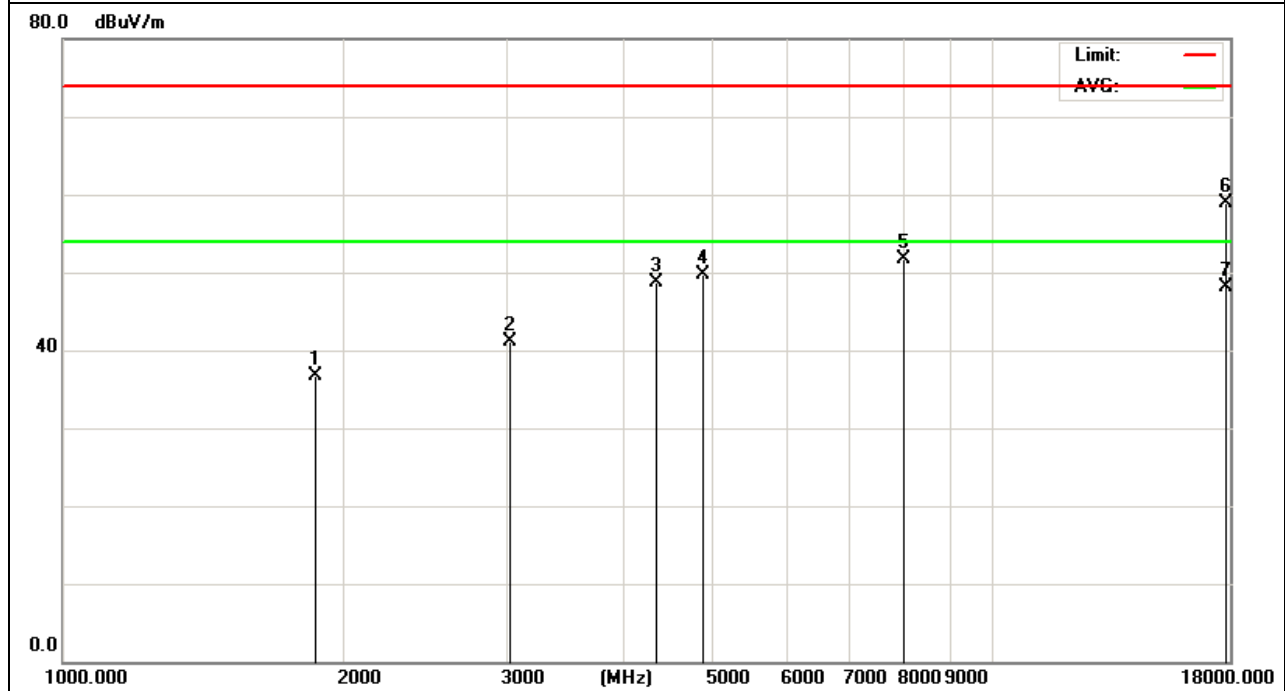


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5260 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1869.567	46.26	-9.46	36.80	74.00	-37.20	peak
3021.248	42.71	-1.63	41.08	74.00	-32.92	peak
4335.206	44.28	4.40	48.68	74.00	-25.32	peak
4887.559	44.56	5.14	49.70	74.00	-24.30	peak
8011.547	41.33	10.40	51.73	74.00	-22.27	peak
17789.000	34.05	24.83	58.88	74.00	-15.12	peak
17789.000	23.36	24.83	48.19	54.00	-5.81	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

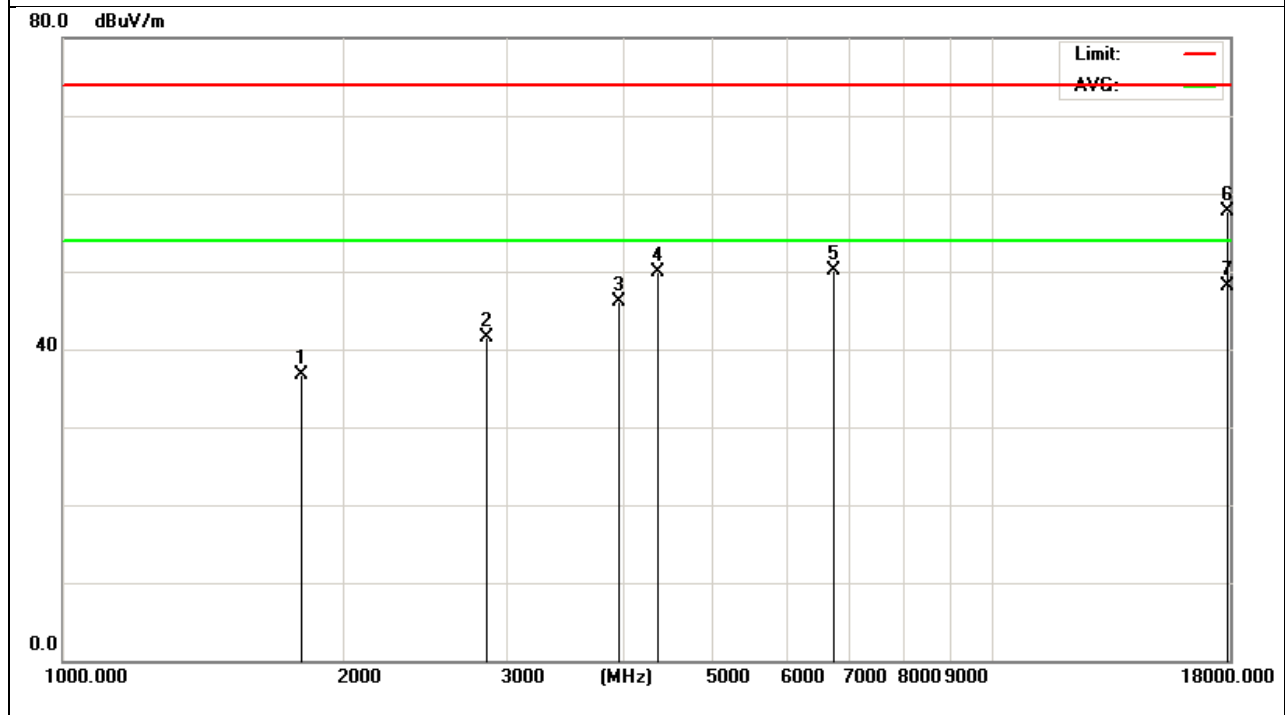


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5260 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1798.367	46.13	-9.34	36.79	74.00	-37.21	peak
2854.159	44.01	-2.59	41.42	74.00	-32.58	peak
3955.650	42.58	3.51	46.09	74.00	-27.91	peak
4356.591	45.36	4.45	49.81	74.00	-24.19	peak
6744.258	44.17	6.02	50.19	74.00	-23.81	peak
17889.232	33.02	24.76	57.78	74.00	-16.22	peak
17889.232	23.41	24.76	48.17	54.00	-5.83	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

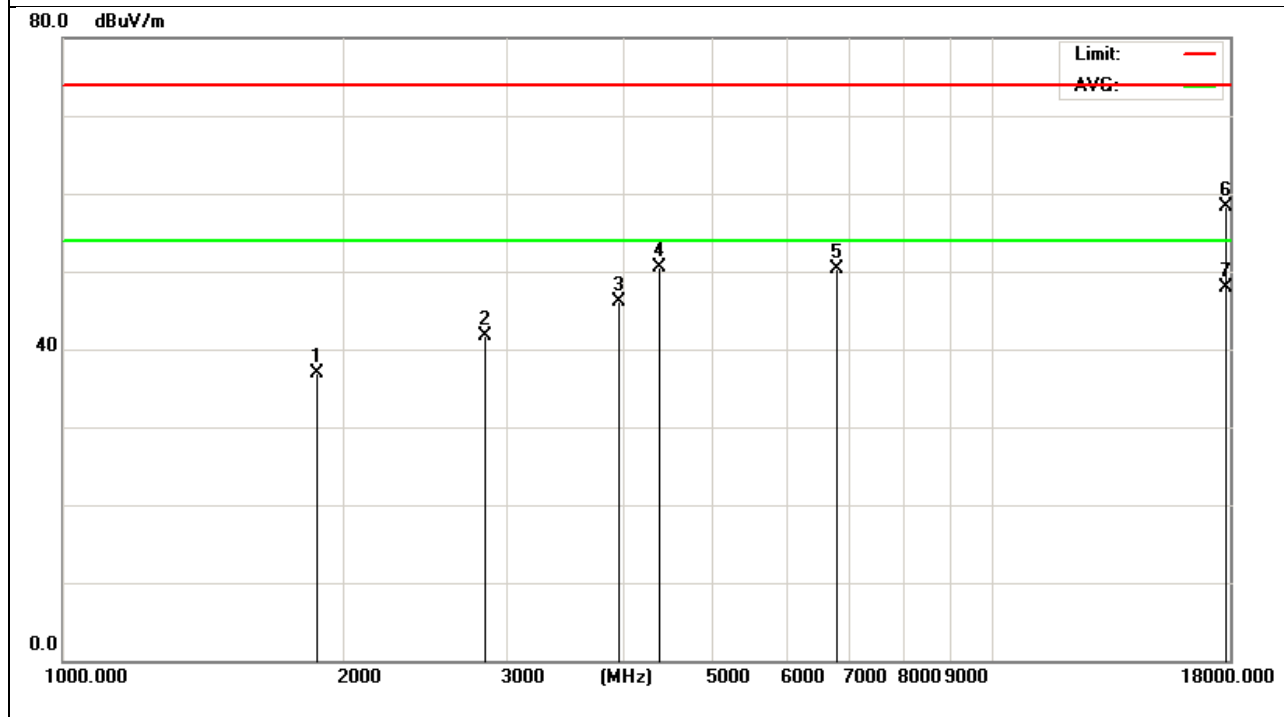


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5300 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1875.447	46.36	-9.48	36.88	74.00	-37.12	peak
2845.235	44.28	-2.64	41.64	74.00	-32.36	peak
3947.559	42.74	3.45	46.19	74.00	-27.81	peak
4368.664	46.09	4.47	50.56	74.00	-23.44	peak
6788.029	44.26	6.04	50.30	74.00	-23.70	peak
17748.361	33.41	24.86	58.27	74.00	-15.73	peak
17748.361	23.06	24.86	47.92	54.00	-6.08	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

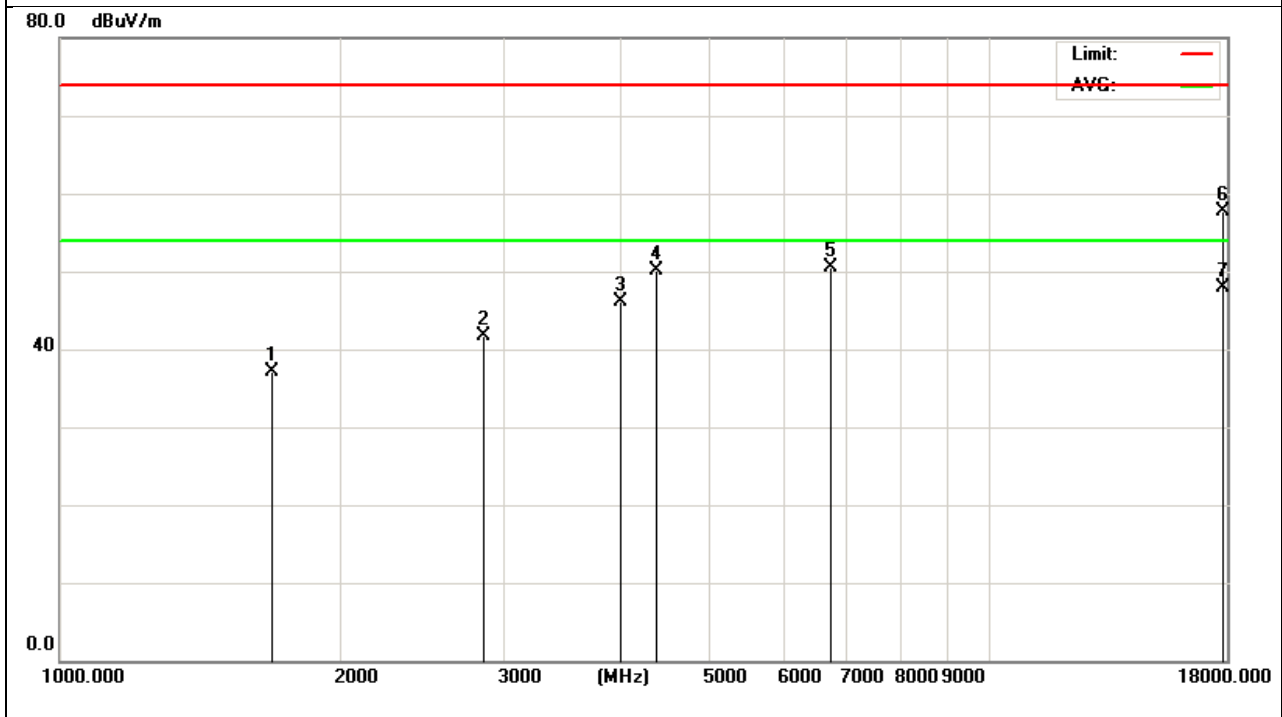


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5300 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1687.914	46.69	-9.66	37.03	74.00	-36.97	peak
2848.236	44.33	-2.62	41.71	74.00	-32.29	peak
3997.481	42.26	3.82	46.08	74.00	-27.92	peak
4367.219	45.55	4.46	50.01	74.00	-23.99	peak
6755.220	44.56	6.01	50.57	74.00	-23.43	peak
17787.000	32.87	24.83	57.70	74.00	-16.30	peak
17787.000	23.02	24.83	47.85	54.00	-6.15	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

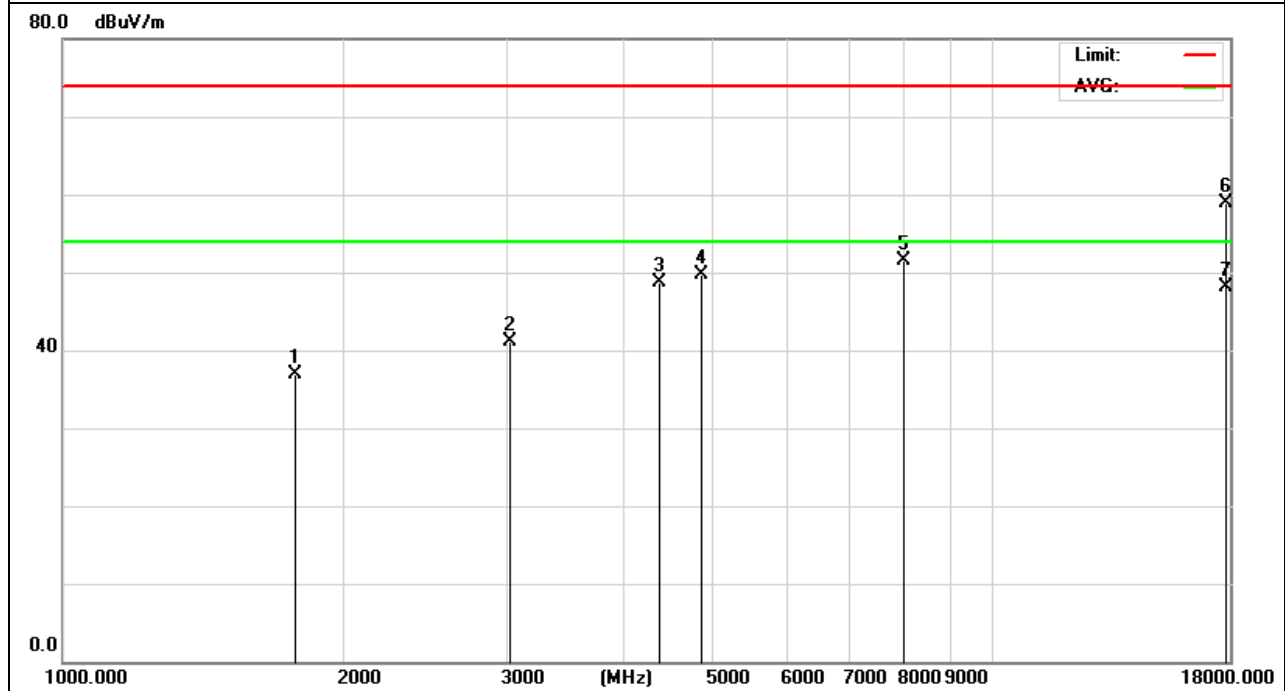


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5320 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1776.592	46.34	-9.40	36.94	74.00	-37.06	peak
3022.336	42.69	-1.62	41.07	74.00	-32.93	peak
4369.657	44.25	4.47	48.72	74.00	-25.28	peak
4855.548	44.68	5.11	49.79	74.00	-24.21	peak
8022.032	41.02	10.41	51.43	74.00	-22.57	peak
17789.000	34.14	24.83	58.97	74.00	-15.03	peak
17789.000	23.26	24.83	48.09	54.00	-5.91	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

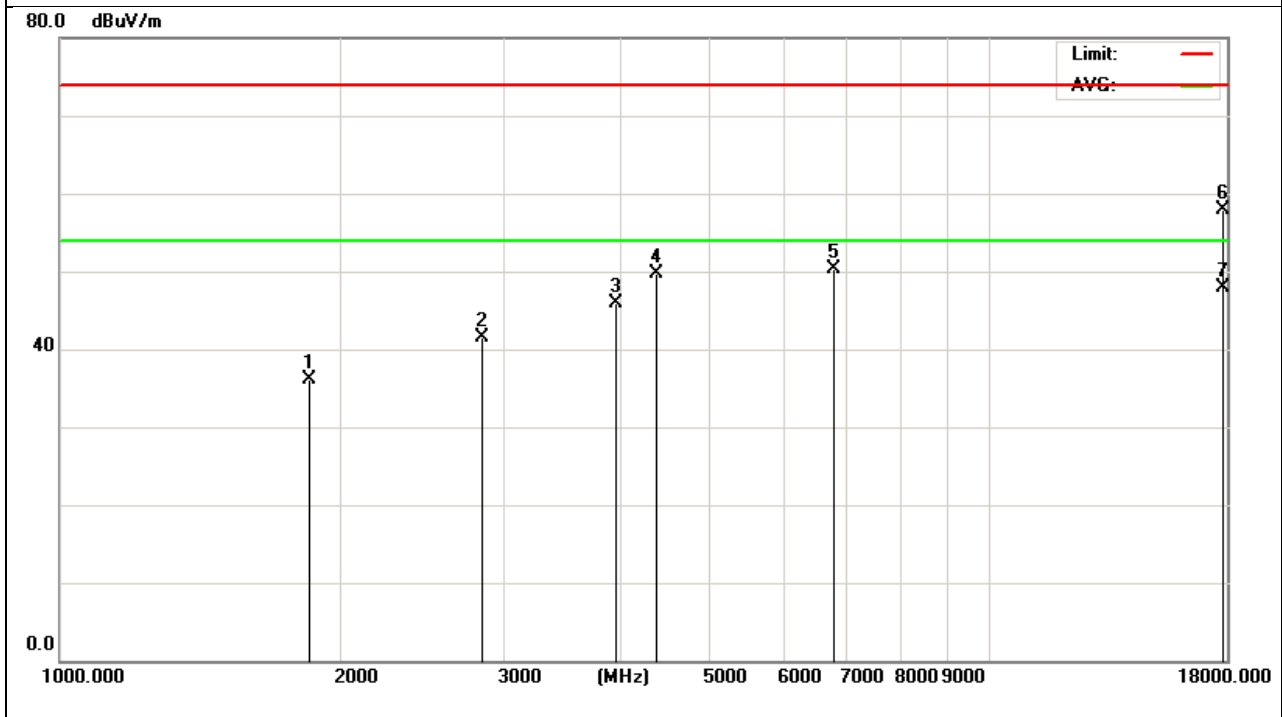


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT20) Mode 5320 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1854.258	45.55	-9.45	36.10	74.00	-37.90	peak
2844.567	44.18	-2.64	41.54	74.00	-32.46	peak
3947.669	42.37	3.45	45.82	74.00	-28.18	peak
4369.326	45.26	4.47	49.73	74.00	-24.27	peak
6788.025	44.26	6.04	50.30	74.00	-23.70	peak
17789.636	33.02	24.83	57.85	74.00	-16.15	peak
17789.636	23.11	24.83	47.94	54.00	-6.06	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

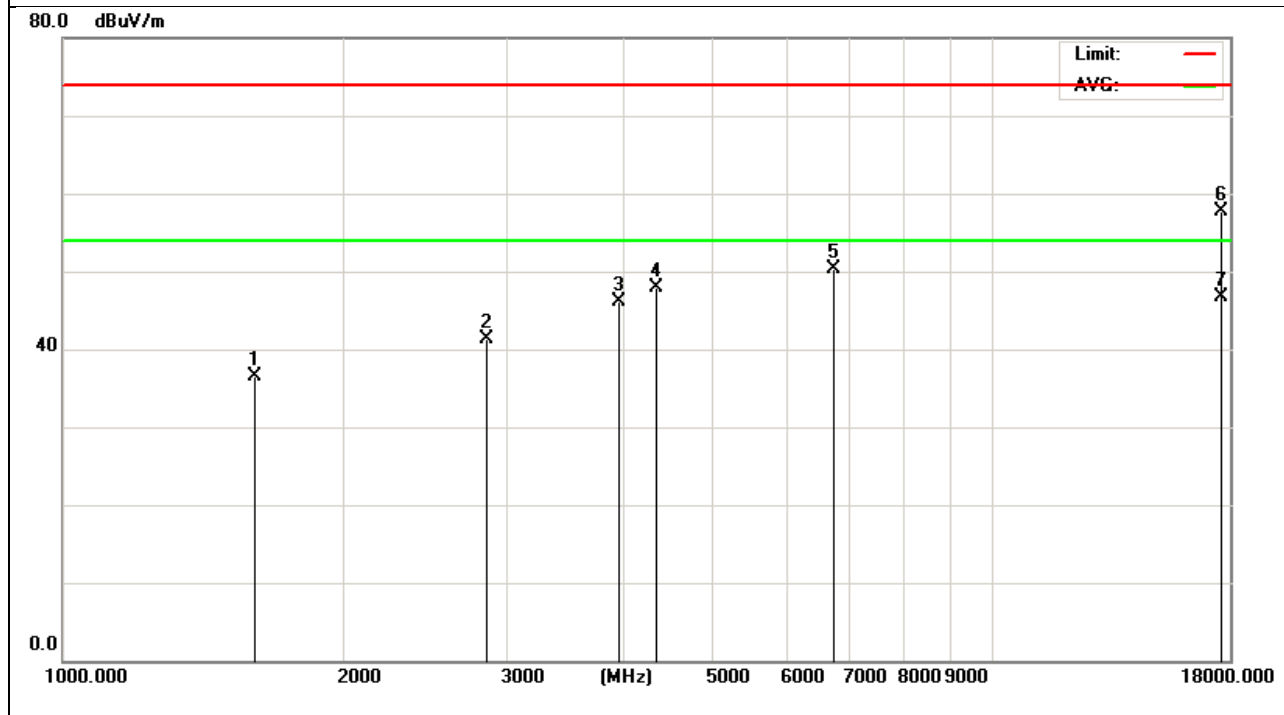


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5500 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1603.325	46.42	-9.88	36.54	74.00	-37.46	peak
2849.665	43.89	-2.61	41.28	74.00	-32.72	peak
3947.014	42.63	3.45	46.08	74.00	-27.92	peak
4332.145	43.47	4.40	47.87	74.00	-26.13	peak
6750.983	44.25	6.02	50.27	74.00	-23.73	peak
17561.221	32.63	24.99	57.62	74.00	-16.38	peak
17561.221	21.68	24.99	46.67	54.00	-7.33	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

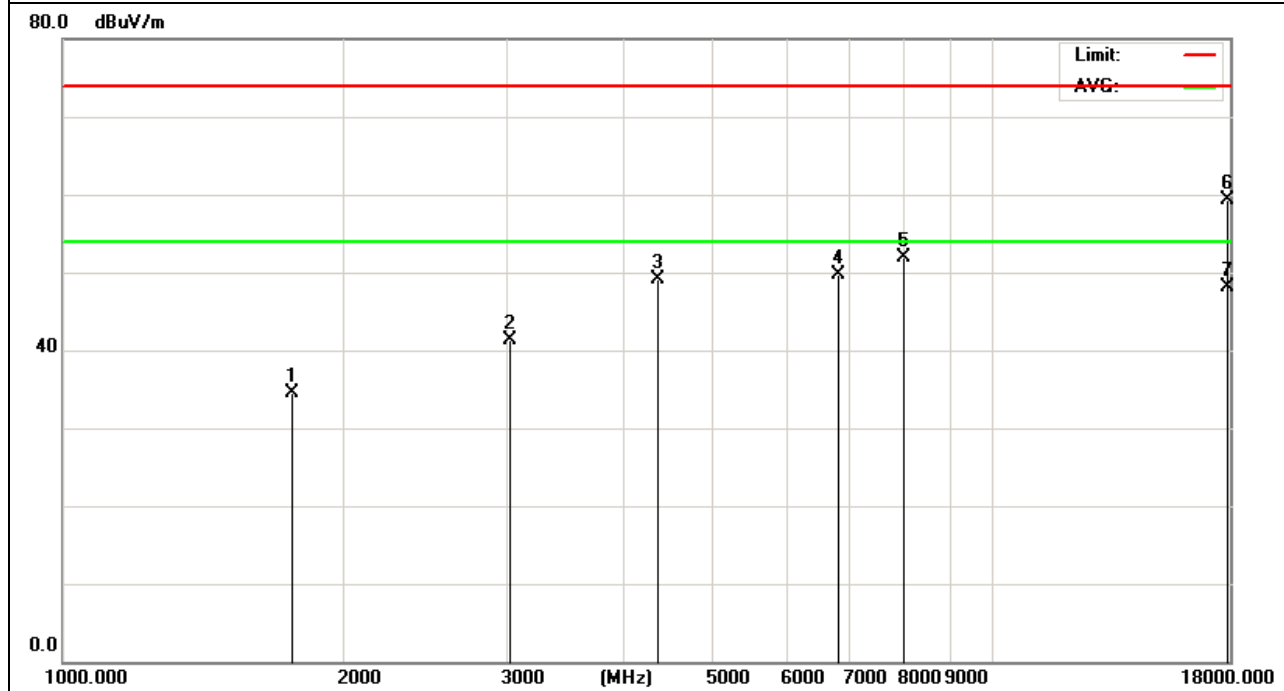


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5500 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1757.564	44.03	-9.46	34.57	74.00	-39.43	peak
3024.225	42.89	-1.62	41.27	74.00	-32.73	peak
4356.259	44.67	4.45	49.12	74.00	-24.88	peak
6834.579	43.55	6.08	49.63	74.00	-24.37	peak
8011.994	41.41	10.40	51.81	74.00	-22.19	peak
17852.024	34.56	24.79	59.35	74.00	-14.65	peak
17852.024	23.33	24.79	48.12	54.00	-5.88	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

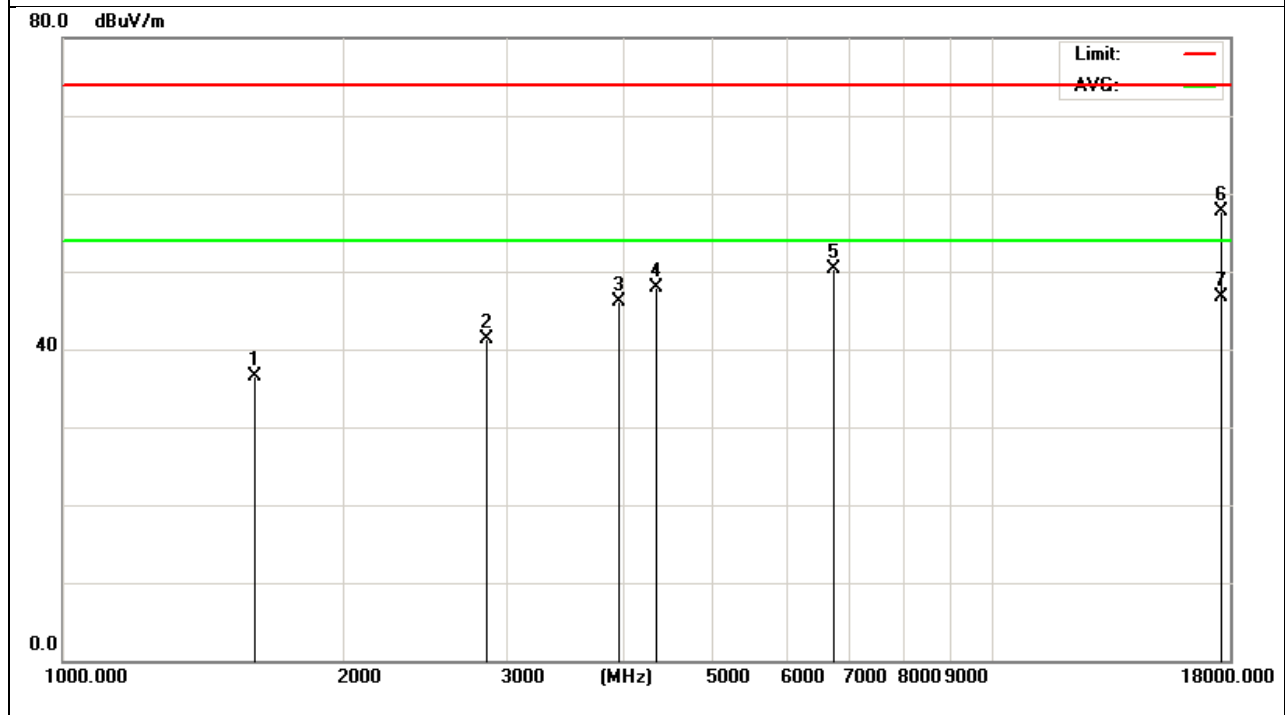


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5600 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1603.325	46.42	-9.88	36.54	74.00	-37.46	peak
2849.665	43.89	-2.61	41.28	74.00	-32.72	peak
3947.014	42.63	3.45	46.08	74.00	-27.92	peak
4332.145	43.47	4.40	47.87	74.00	-26.13	peak
6750.983	44.25	6.02	50.27	74.00	-23.73	peak
17561.221	32.63	24.99	57.62	74.00	-16.38	peak
17561.221	21.68	24.99	46.67	54.00	-7.33	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

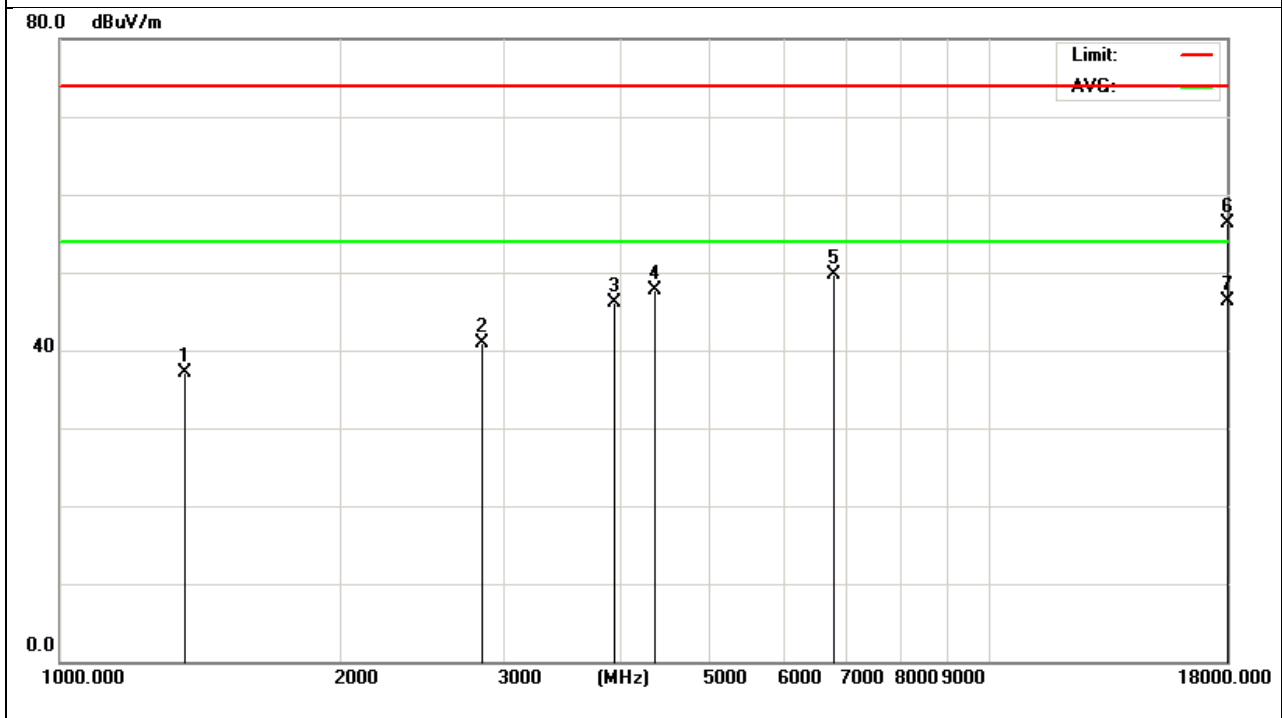


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5600 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1358.914	47.33	-10.29	37.04	74.00	-36.96	peak
2846.221	43.58	-2.63	40.95	74.00	-33.05	peak
3946.582	42.65	3.44	46.09	74.00	-27.91	peak
4367.014	43.19	4.46	47.65	74.00	-26.35	peak
6789.336	43.62	6.04	49.66	74.00	-24.34	peak
17951.201	31.67	24.71	56.38	74.00	-17.62	peak
17951.201	21.55	24.71	46.26	54.00	-7.74	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

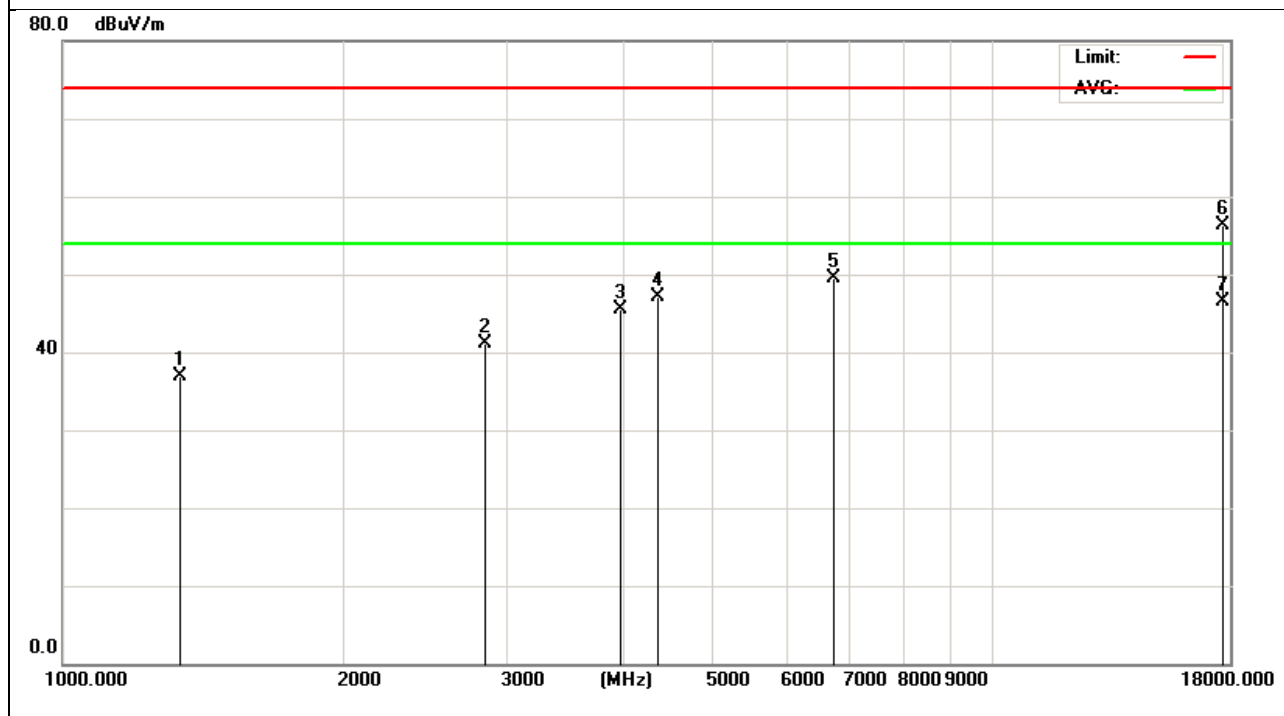


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5700 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1332.988	47.25	-10.30	36.95	74.00	-37.05	peak
2846.321	43.66	-2.63	41.03	74.00	-32.97	peak
3980.423	41.85	3.70	45.55	74.00	-28.45	peak
4362.698	42.68	4.46	47.14	74.00	-26.86	peak
6749.855	43.56	6.01	49.57	74.00	-24.43	peak
17658.628	31.47	24.92	56.39	74.00	-17.61	peak
17658.628	21.68	24.92	46.60	54.00	-7.40	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

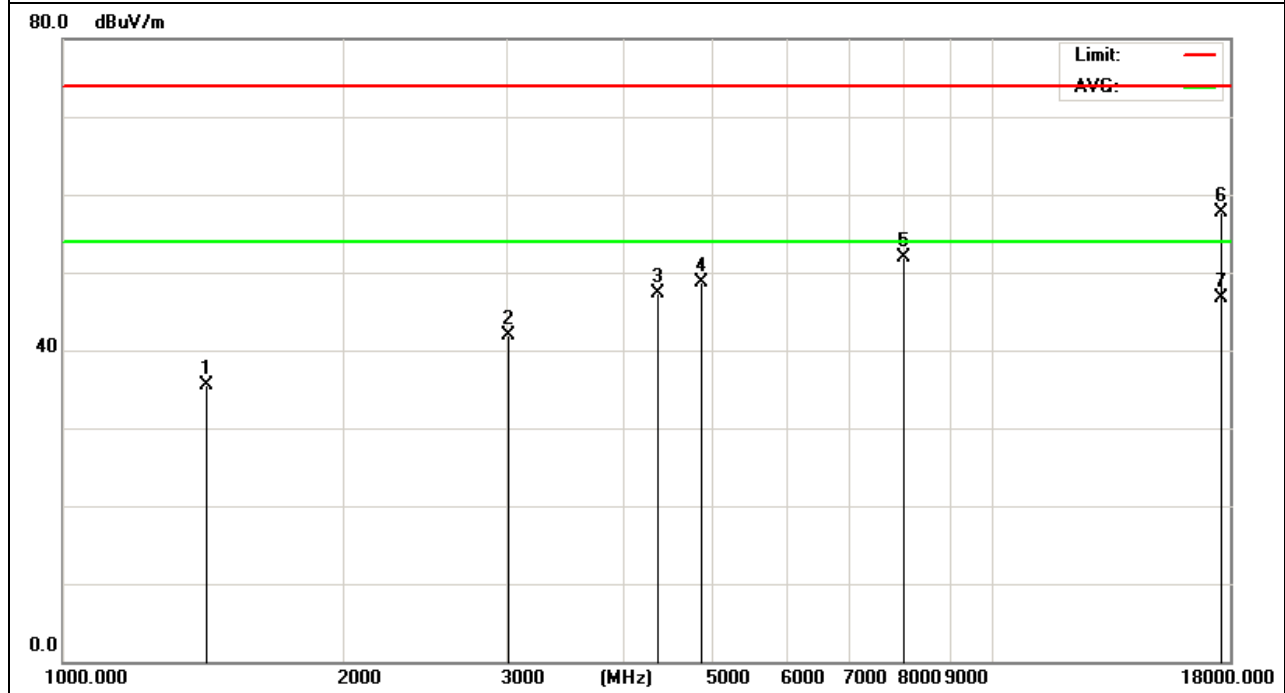


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT20) Mode 5700 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1422.931	45.72	-10.21	35.51	74.00	-38.49	peak
3016.549	43.63	-1.64	41.99	74.00	-32.01	peak
4365.872	42.87	4.46	47.33	74.00	-26.67	peak
4850.064	43.59	5.11	48.70	74.00	-25.30	peak
8019.658	41.57	10.41	51.98	74.00	-22.02	peak
17557.243	32.65	24.99	57.64	74.00	-16.36	peak
17557.243	21.69	24.99	46.68	54.00	-7.32	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

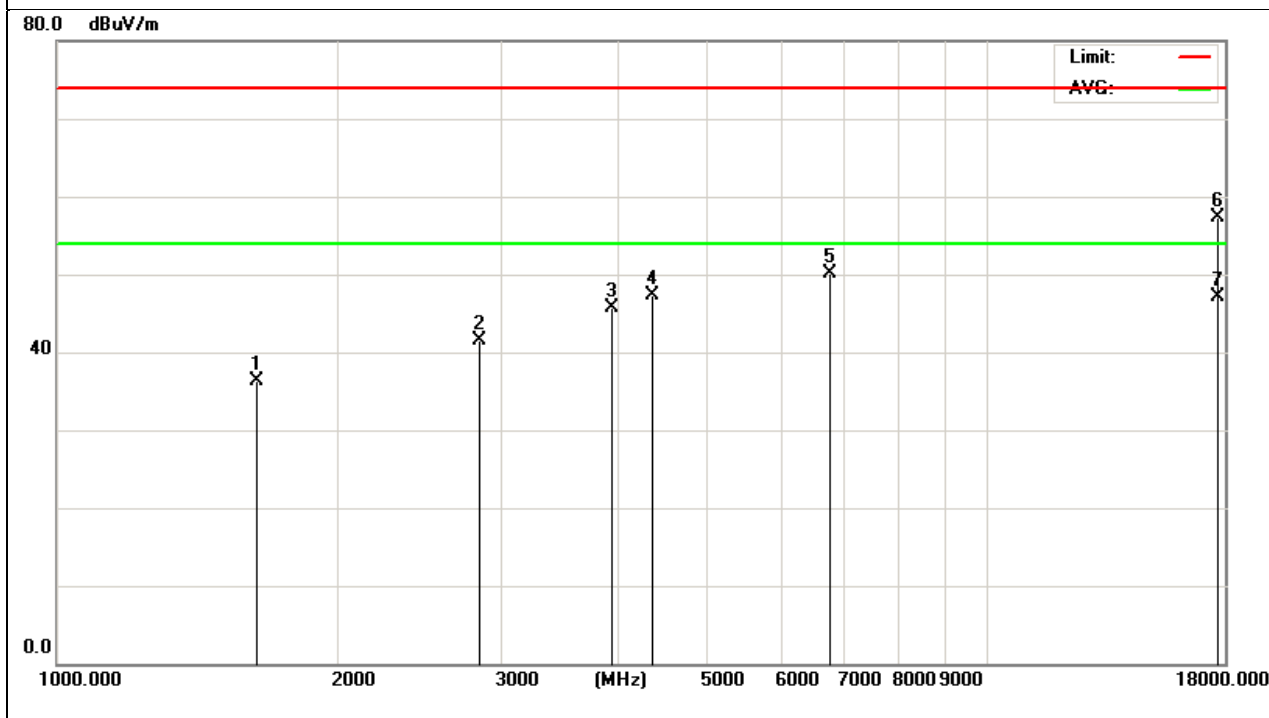


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1635.247	46.11	-9.79	36.32	74.00	-37.68	peak
2846.635	44.06	-2.63	41.43	74.00	-32.57	peak
3946.587	42.36	3.44	45.80	74.00	-28.20	peak
4363.453	42.88	4.46	47.34	74.00	-26.66	peak
6775.496	44.16	6.03	50.19	74.00	-23.81	peak
17653.428	32.48	24.92	57.40	74.00	-16.60	peak
17653.428	22.16	24.92	47.08	54.00	-6.92	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

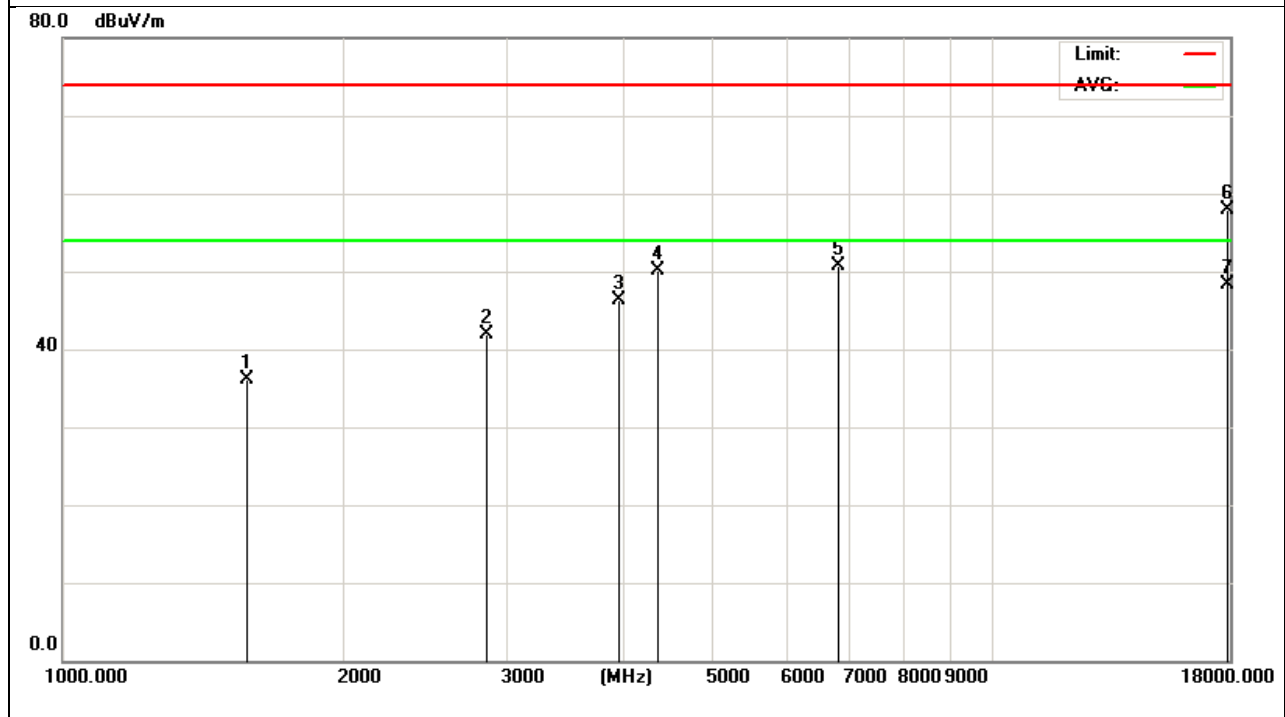


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1578.520	46.06	-9.88	36.18	74.00	-37.82	peak
2847.694	44.53	-2.62	41.91	74.00	-32.09	peak
3966.428	42.62	3.60	46.22	74.00	-27.78	peak
4358.024	45.60	4.45	50.05	74.00	-23.95	peak
6822.004	44.70	6.07	50.77	74.00	-23.23	peak
17891.554	33.15	24.76	57.91	74.00	-16.09	peak
17891.554	23.53	24.76	48.29	54.00	-5.71	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

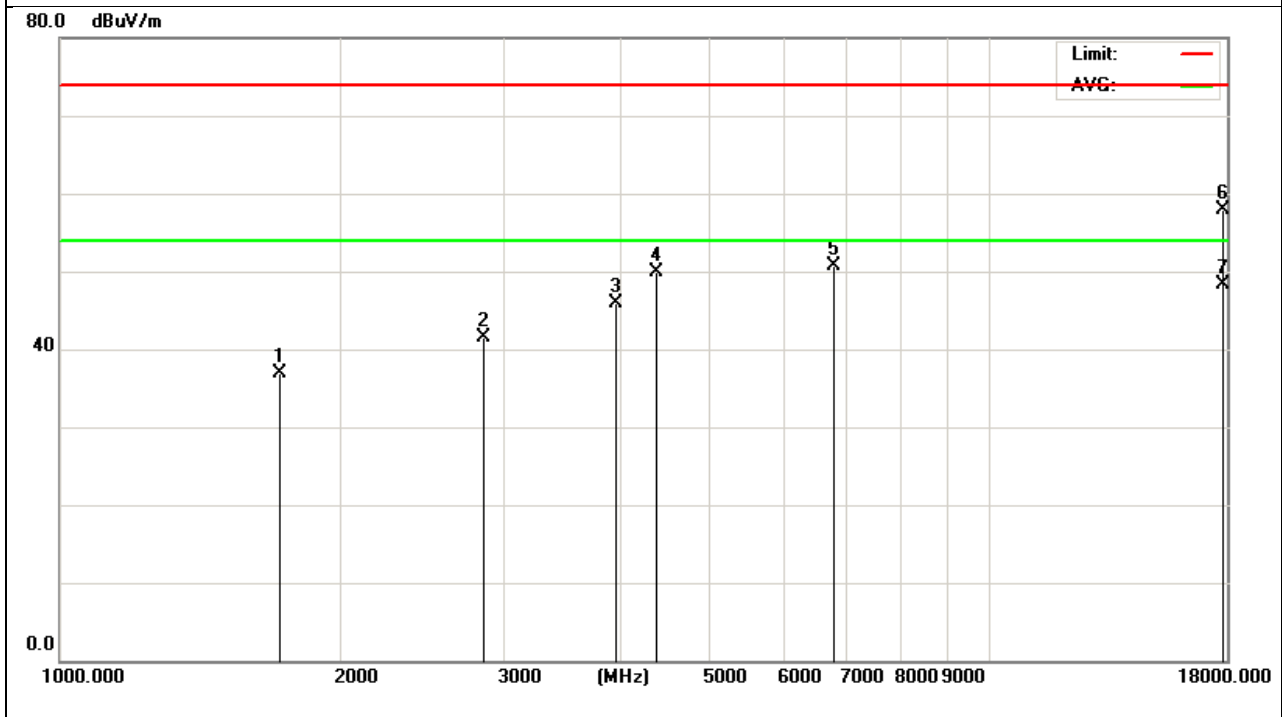


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1720.114	46.38	-9.57	36.81	74.00	-37.19	peak
2848.659	44.19	-2.62	41.57	74.00	-32.43	peak
3956.202	42.47	3.52	45.99	74.00	-28.01	peak
4367.336	45.36	4.46	49.82	74.00	-24.18	peak
6780.257	44.58	6.04	50.62	74.00	-23.38	peak
17754.000	33.10	24.85	57.95	74.00	-16.05	peak
17754.000	23.54	24.85	48.39	54.00	-5.61	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

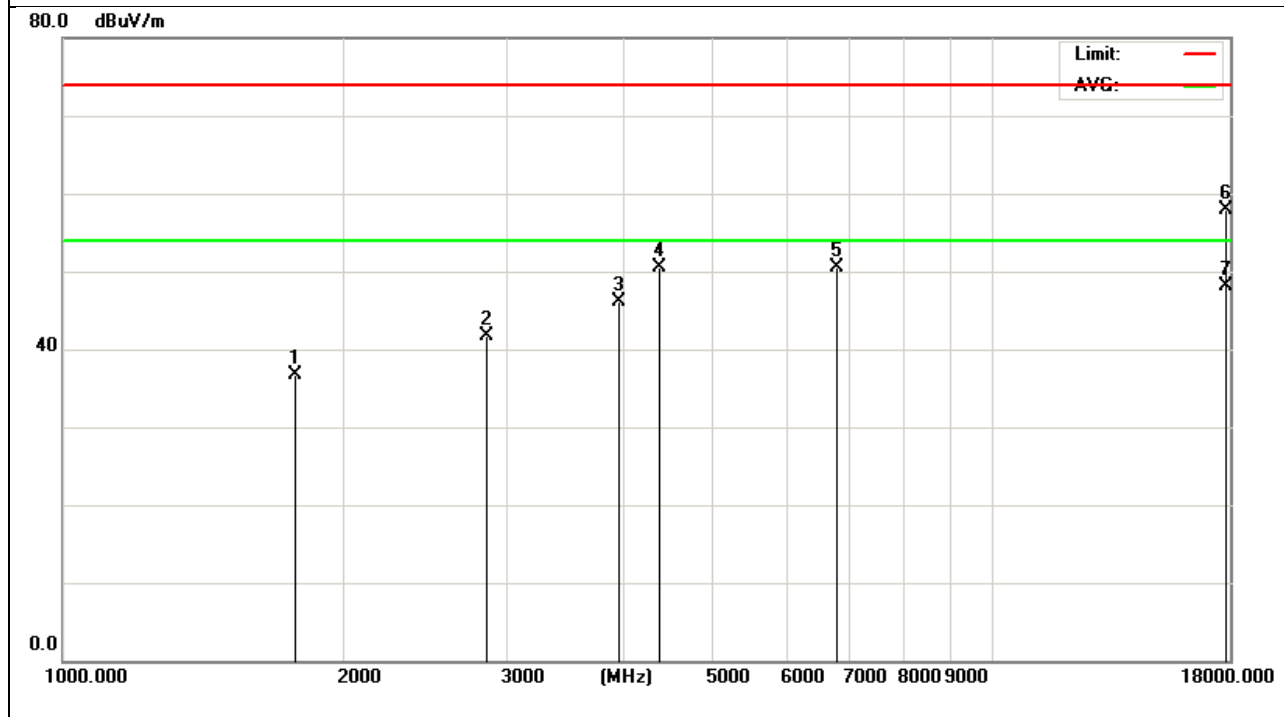


Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1775.241	46.15	-9.41	36.74	74.00	-37.26	peak
2848.552	44.23	-2.62	41.61	74.00	-32.39	peak
3954.274	42.58	3.50	46.08	74.00	-27.92	peak
4368.657	46.06	4.47	50.53	74.00	-23.47	peak
6780.249	44.47	6.04	50.51	74.00	-23.49	peak
17756.228	33.01	24.85	57.86	74.00	-16.14	peak
17756.228	23.26	24.85	48.11	54.00	-5.89	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

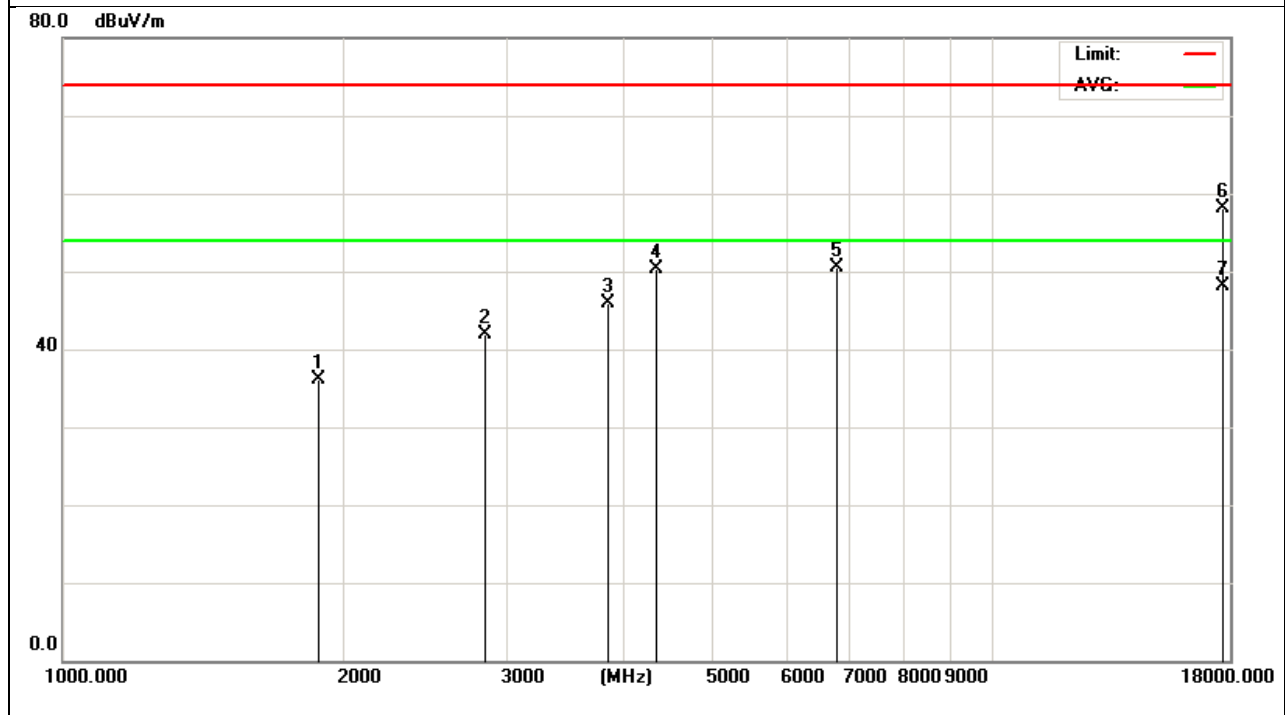


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5270 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1880.264	45.69	-9.49	36.20	74.00	-37.80	peak
2844.179	44.55	-2.64	41.91	74.00	-32.09	peak
3846.352	43.29	2.71	46.00	74.00	-28.00	peak
4333.252	45.97	4.40	50.37	74.00	-23.63	peak
6788.921	44.56	6.04	50.60	74.00	-23.40	peak
17653.266	33.14	24.93	58.07	74.00	-15.93	peak
17653.266	23.26	24.93	48.19	54.00	-5.81	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

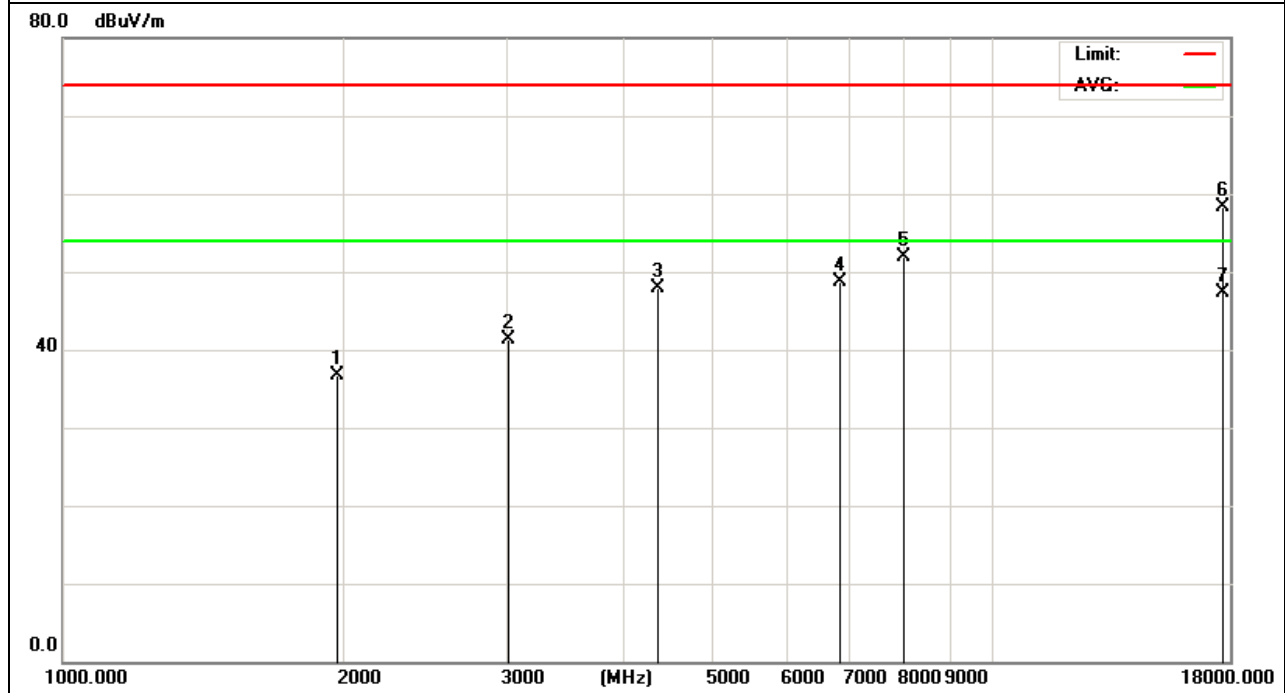


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5270 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1967.331	46.01	-9.22	36.79	74.00	-37.21	peak
3011.247	42.87	-1.65	41.22	74.00	-32.78	peak
4355.023	43.41	4.45	47.86	74.00	-26.14	peak
6855.007	42.55	6.08	48.63	74.00	-25.37	peak
8012.326	41.56	10.40	51.96	74.00	-22.04	peak
17659.000	33.47	24.92	58.39	74.00	-15.61	peak
17659.000	22.36	24.92	47.28	54.00	-6.72	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

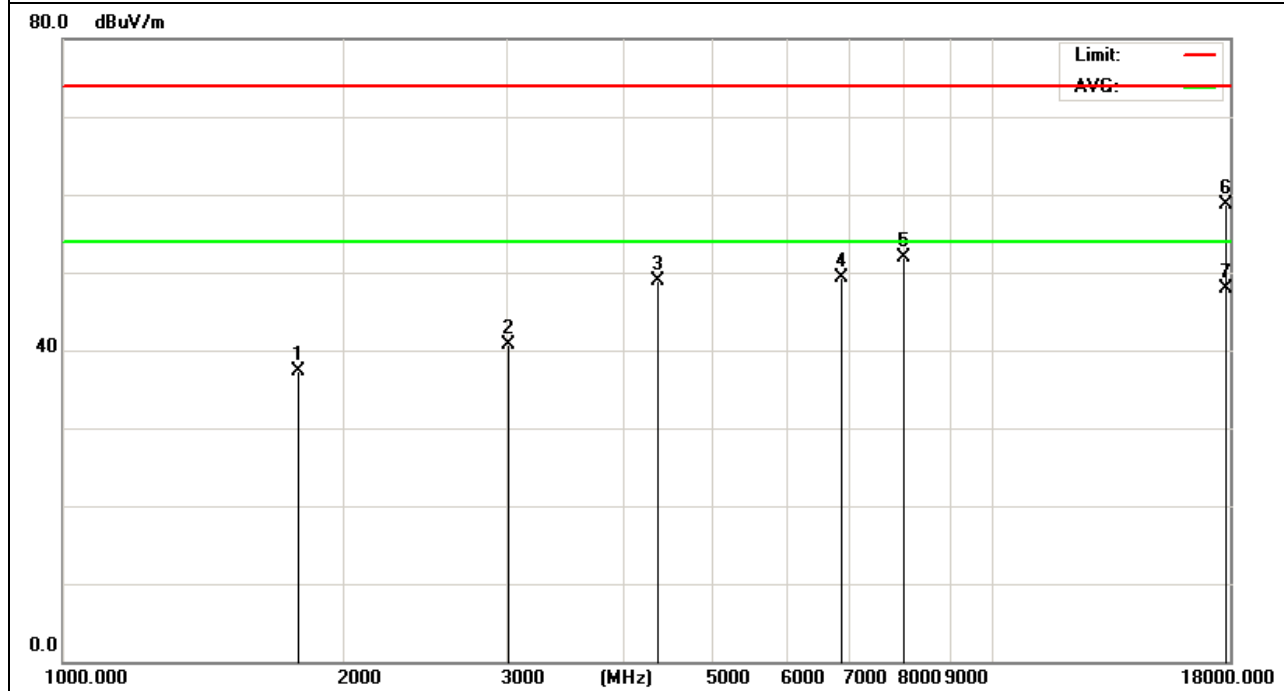


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5310 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1789.264	46.69	-9.37	37.32	74.00	-36.68	peak
3011.482	42.44	-1.65	40.79	74.00	-33.21	peak
4355.279	44.39	4.45	48.84	74.00	-25.16	peak
6855.361	43.25	6.08	49.33	74.00	-24.67	peak
8022.164	41.56	10.41	51.97	74.00	-22.03	peak
17750.014	33.87	24.85	58.72	74.00	-15.28	peak
17750.014	23.14	24.85	47.99	54.00	-6.01	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

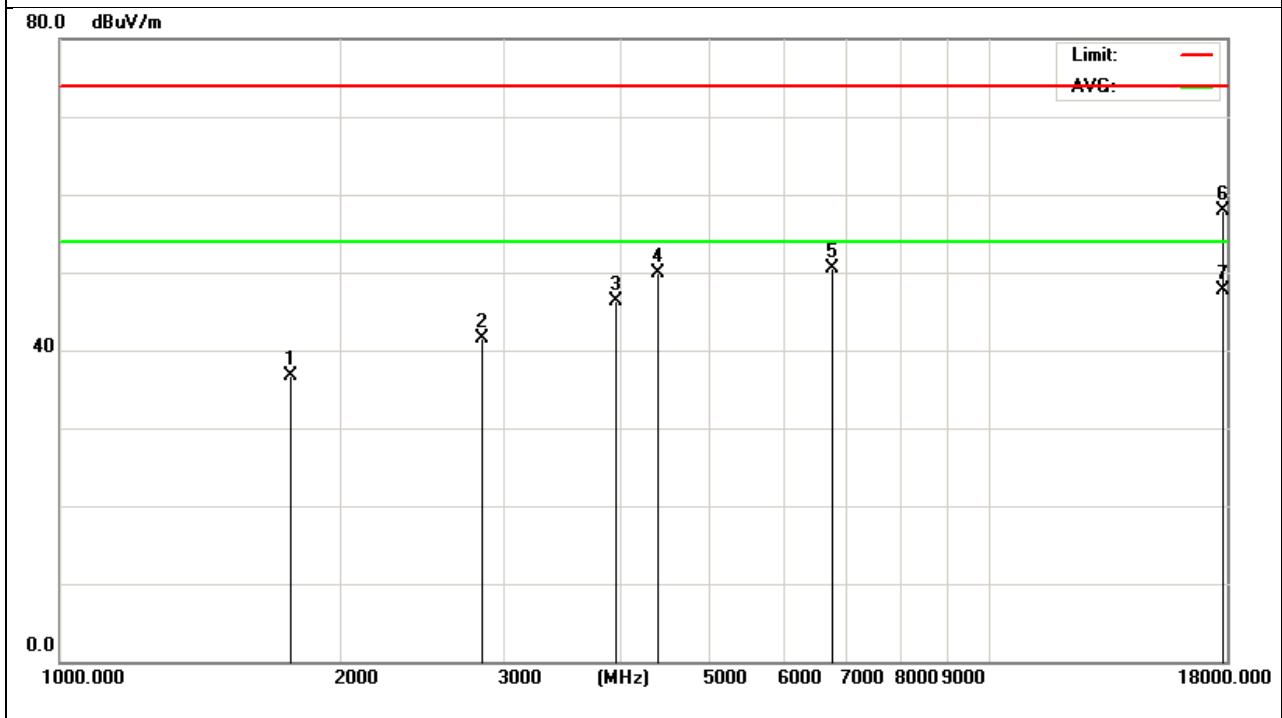


Orthogonal Axis	X
Test Mode	UNII-2A_TX N (HT40) Mode 5310 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1768.216	46.21	-9.43	36.78	74.00	-37.22	peak
2845.693	44.15	-2.64	41.51	74.00	-32.49	peak
3948.274	42.84	3.46	46.30	74.00	-27.70	peak
4382.659	45.34	4.50	49.84	74.00	-24.16	peak
6774.265	44.52	6.04	50.56	74.00	-23.44	peak
17786.027	33.15	24.83	57.98	74.00	-16.02	peak
17786.027	22.87	24.83	47.70	54.00	-6.30	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

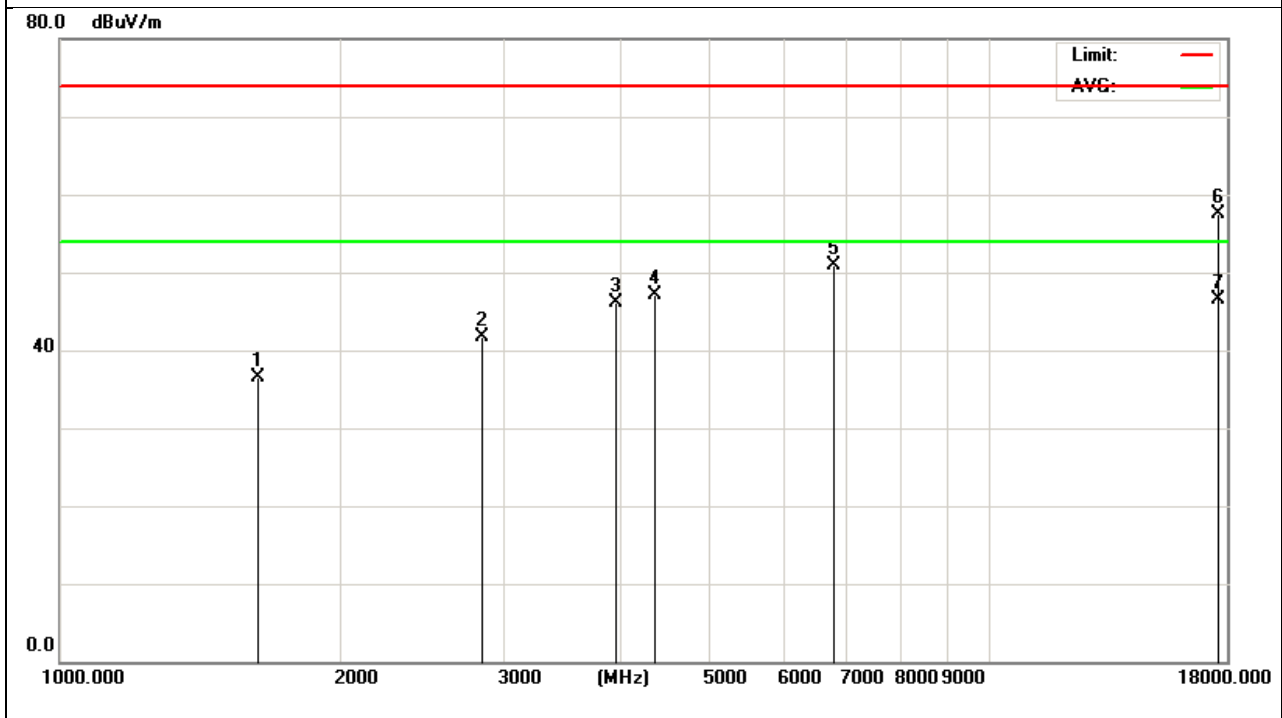


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5510 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1632.088	46.35	-9.81	36.54	74.00	-37.46	peak
2846.653	44.27	-2.63	41.64	74.00	-32.36	peak
3949.742	42.56	3.47	46.03	74.00	-27.97	peak
4363.520	42.63	4.46	47.09	74.00	-26.91	peak
6784.069	44.85	6.04	50.89	74.00	-23.11	peak
17542.639	32.41	25.01	57.42	74.00	-16.58	peak
17542.639	21.56	25.01	46.57	54.00	-7.43	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

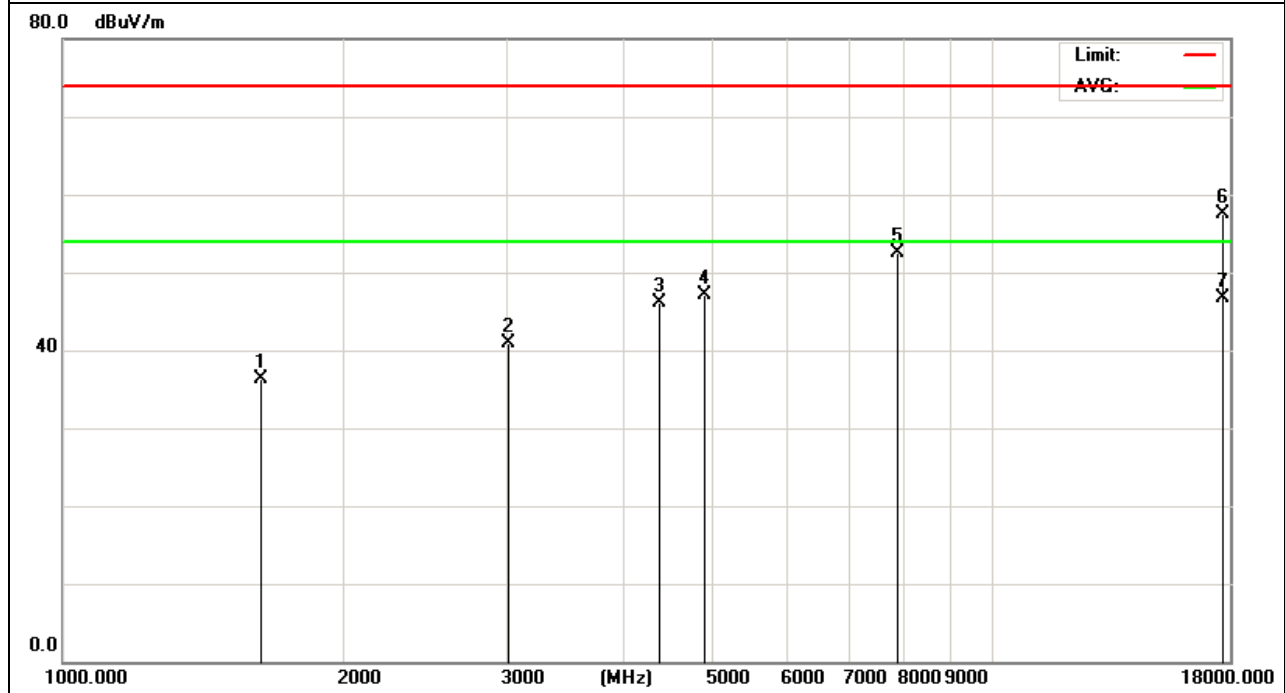


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5510 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1632.657	46.16	-9.81	36.35	74.00	-37.65	peak
3014.004	42.57	-1.65	40.92	74.00	-33.08	peak
4369.687	41.66	4.47	46.13	74.00	-27.87	peak
4892.537	42.02	5.16	47.18	74.00	-26.82	peak
7888.353	42.58	9.92	52.50	74.00	-21.50	peak
17654.189	32.63	24.92	57.55	74.00	-16.45	peak
17654.189	21.76	24.92	46.68	54.00	-7.32	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

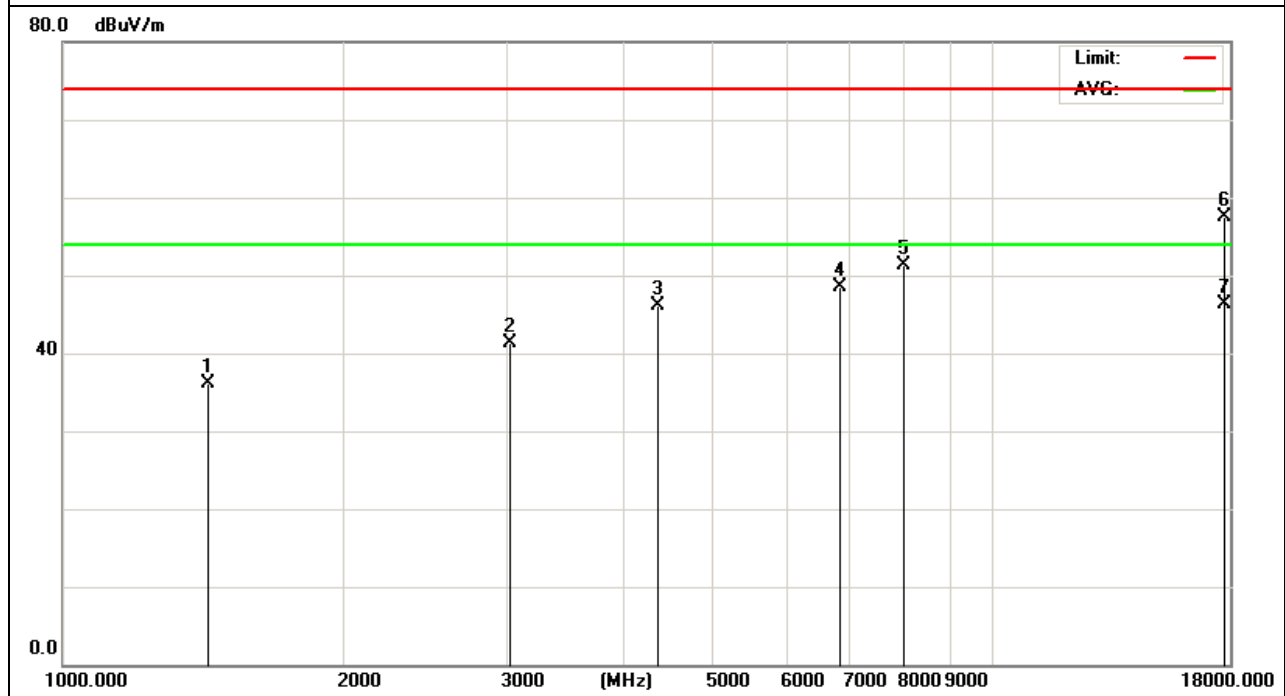


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5590 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1427.013	46.32	-10.18	36.14	74.00	-37.86	peak
3016.988	42.87	-1.64	41.23	74.00	-32.77	peak
4364.821	41.63	4.46	46.09	74.00	-27.91	peak
6849.332	42.49	6.08	48.57	74.00	-25.43	peak
8014.505	40.87	10.40	51.27	74.00	-22.73	peak
17695.350	32.56	24.90	57.46	74.00	-16.54	peak
17695.350	21.49	24.90	46.39	54.00	-7.61	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

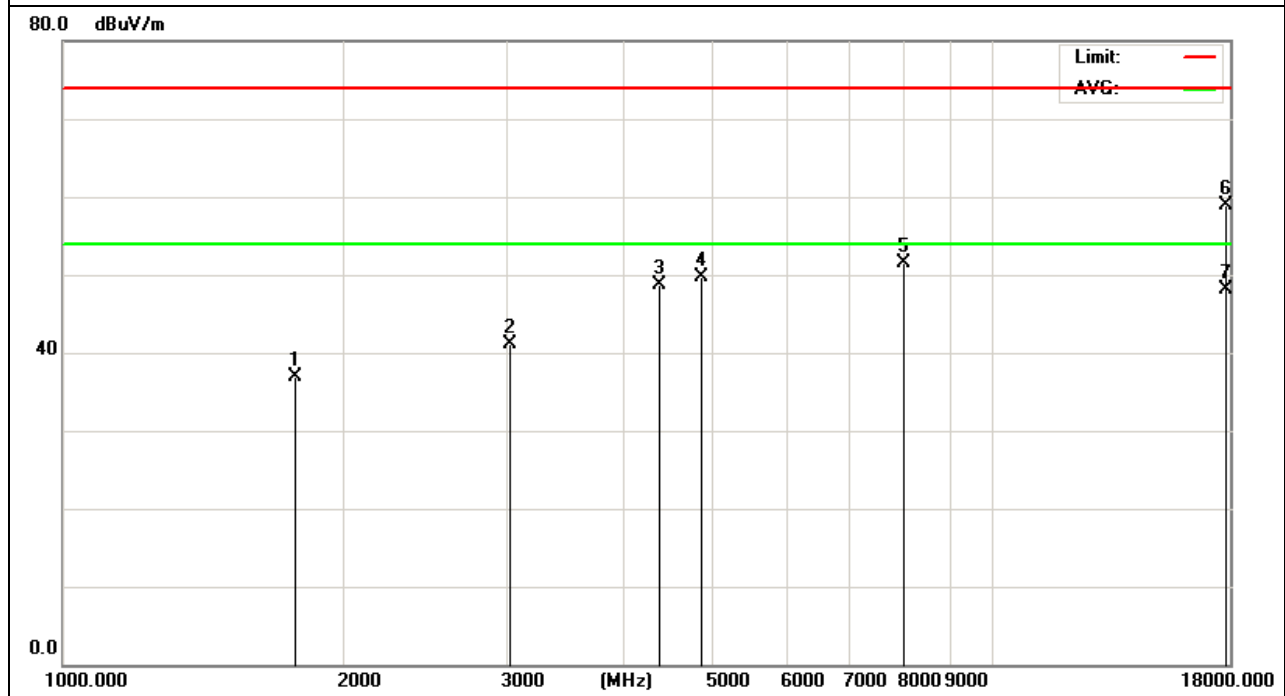


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5590 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1776.592	46.34	-9.40	36.94	74.00	-37.06	peak
3022.336	42.69	-1.62	41.07	74.00	-32.93	peak
4369.657	44.25	4.47	48.72	74.00	-25.28	peak
4855.548	44.68	5.11	49.79	74.00	-24.21	peak
8022.032	41.02	10.41	51.43	74.00	-22.57	peak
17789.000	34.14	24.83	58.97	74.00	-15.03	peak
17789.000	23.26	24.83	48.09	54.00	-5.91	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

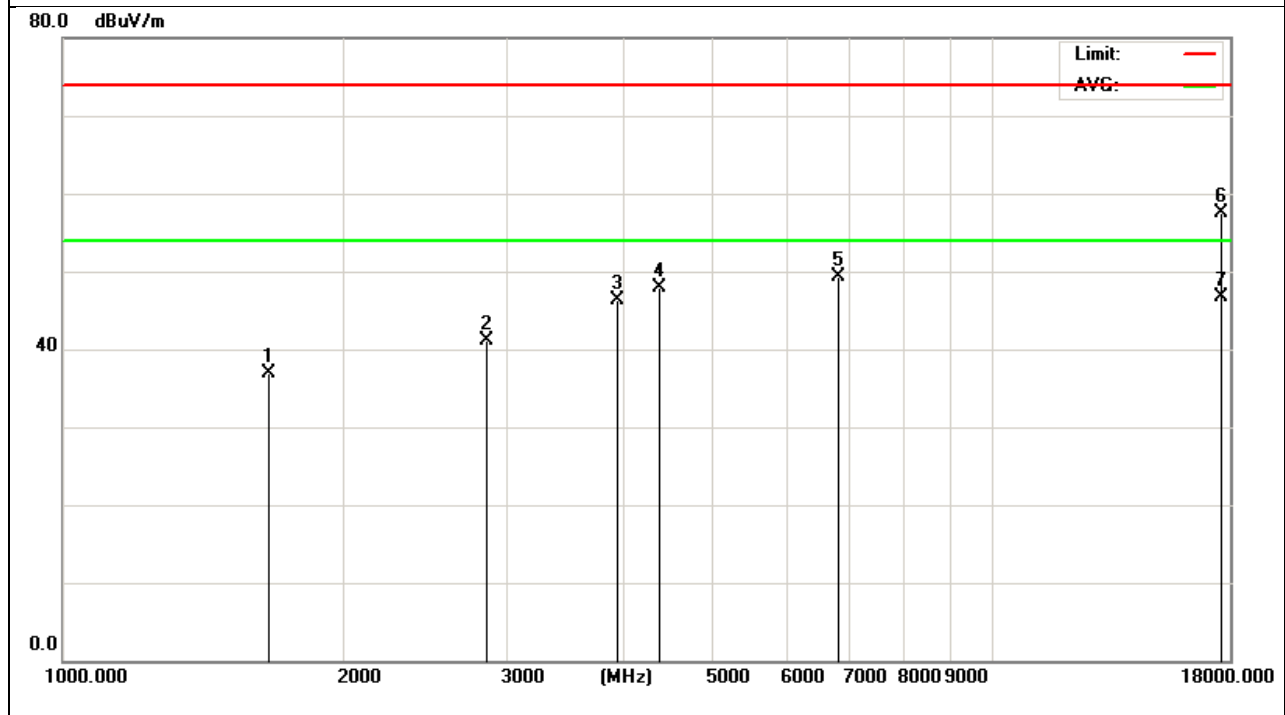


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5670 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1662.471	46.57	-9.73	36.84	74.00	-37.16	peak
2849.336	43.63	-2.61	41.02	74.00	-32.98	peak
3942.202	42.98	3.42	46.40	74.00	-27.60	peak
4379.662	43.37	4.49	47.86	74.00	-26.14	peak
6811.491	43.25	6.06	49.31	74.00	-24.69	peak
17547.638	32.49	25.00	57.49	74.00	-16.51	peak
17547.638	21.63	25.00	46.63	54.00	-7.37	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

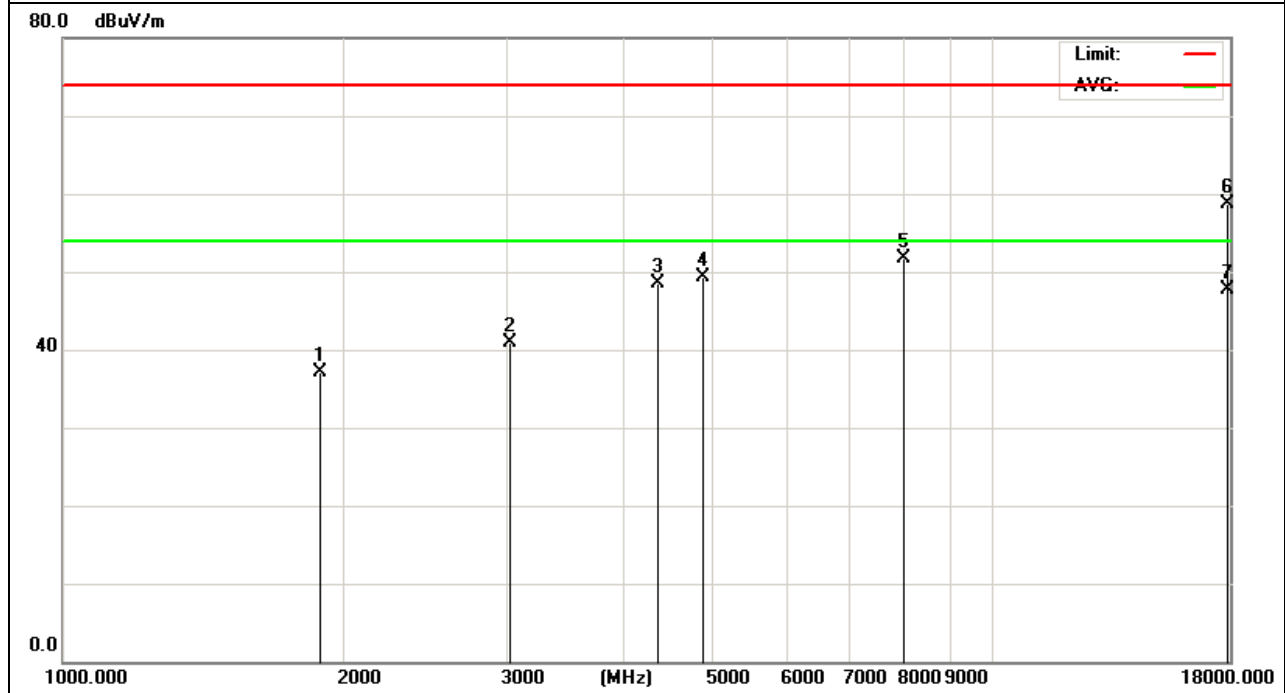


Orthogonal Axis	X
Test Mode	UNII-2C_TX N (HT40) Mode 5670 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1889.569	46.62	-9.50	37.12	74.00	-36.88	peak
3021.224	42.47	-1.63	40.84	74.00	-33.16	peak
4365.198	44.02	4.46	48.48	74.00	-25.52	peak
4887.565	44.23	5.14	49.37	74.00	-24.63	peak
8026.234	41.26	10.41	51.67	74.00	-22.33	peak
17896.199	33.97	24.75	58.72	74.00	-15.28	peak
17896.199	23.03	24.75	47.78	54.00	-6.22	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

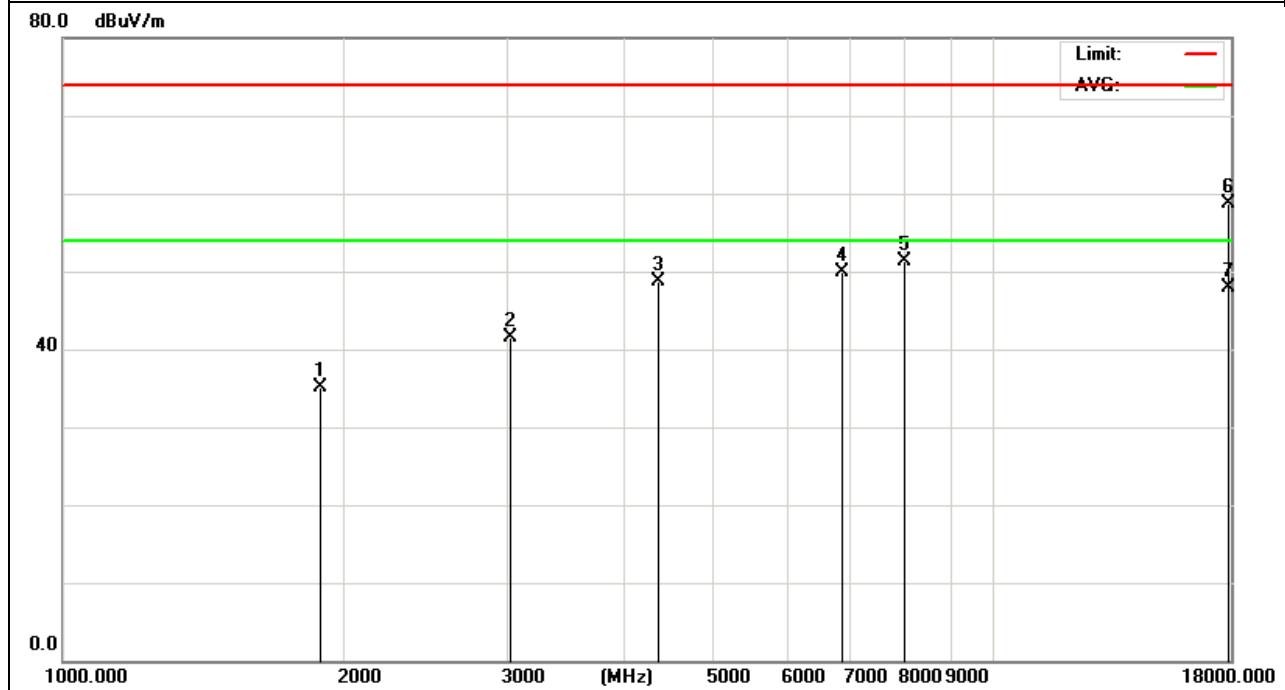


Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1892.065	44.78	-9.51	35.27	74.00	-38.73	peak
3021.115	43.16	-1.63	41.53	74.00	-32.47	peak
4362.745	44.65	4.46	49.11	74.00	-24.89	peak
6855.355	43.87	6.08	49.95	74.00	-24.05	peak
8030.841	40.71	10.41	51.12	74.00	-22.88	peak
17886.047	34.06	24.76	58.82	74.00	-15.18	peak
17886.047	23.17	24.76	47.93	54.00	-6.07	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

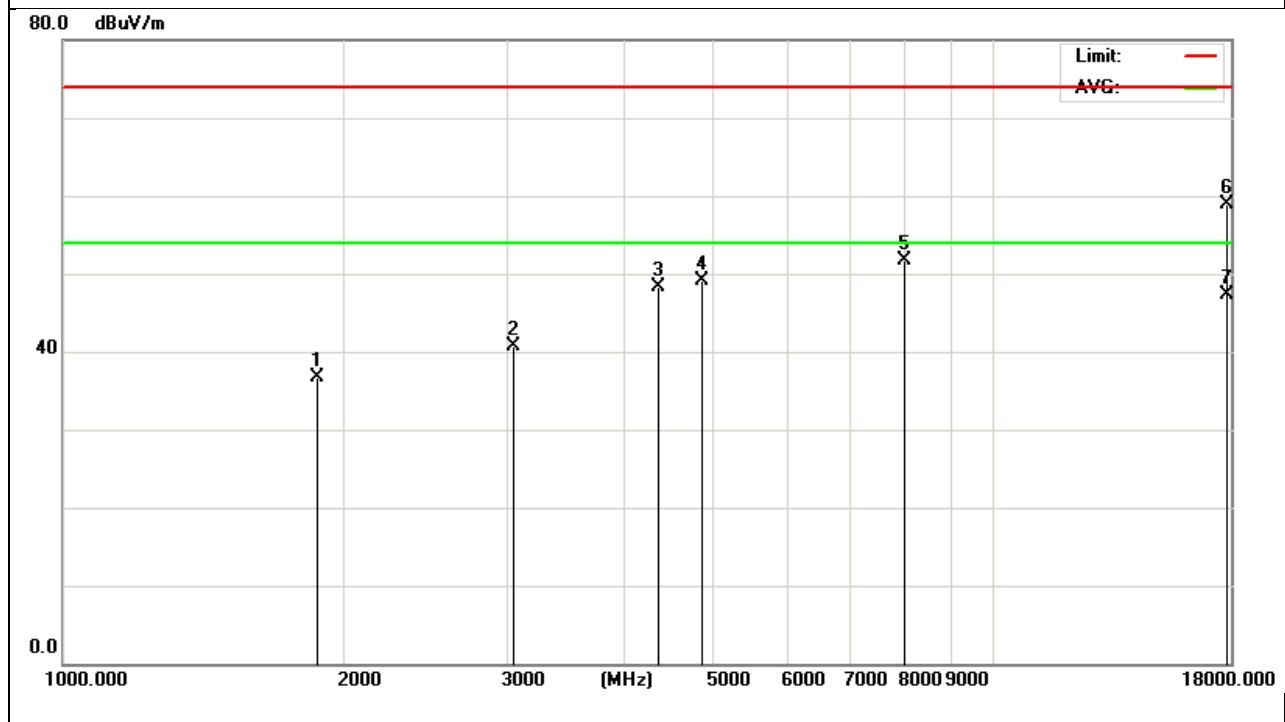


Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1874.177	46.36	-9.47	36.89	74.00	-37.11	peak
3044.856	42.41	-1.57	40.84	74.00	-33.16	peak
4355.521	44.07	4.45	48.52	74.00	-25.48	peak
4857.655	44.02	5.11	49.13	74.00	-24.87	peak
8024.123	41.33	10.41	51.74	74.00	-22.26	peak
17765.774	34.11	24.84	58.95	74.00	-15.05	peak
17765.774	22.6	24.84	47.44	54.00	-6.56	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

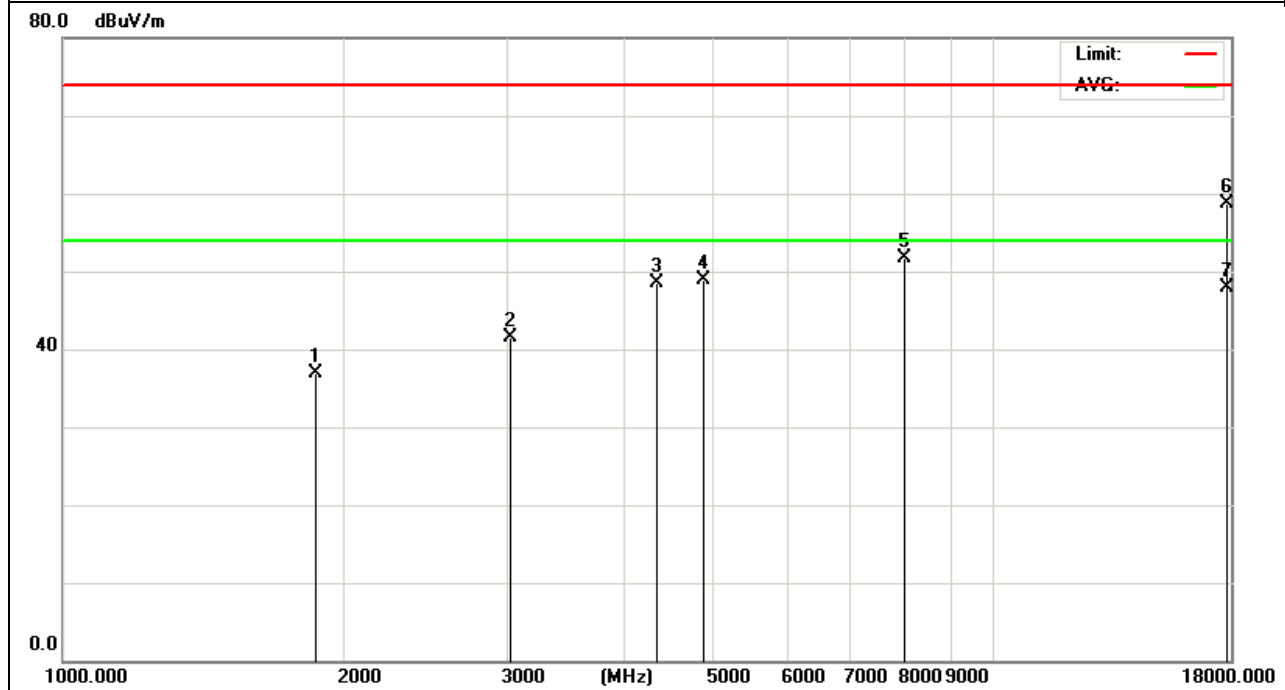


Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1865.331	46.31	-9.45	36.86	74.00	-37.14	peak
3019.486	43.15	-1.63	41.52	74.00	-32.48	peak
4349.313	44.09	4.43	48.52	74.00	-25.48	peak
4862.479	43.85	5.12	48.97	74.00	-25.03	peak
8029.699	41.32	10.41	51.73	74.00	-22.27	peak
17799.910	33.91	24.82	58.73	74.00	-15.27	peak
17799.910	23.08	24.82	47.90	54.00	-6.10	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

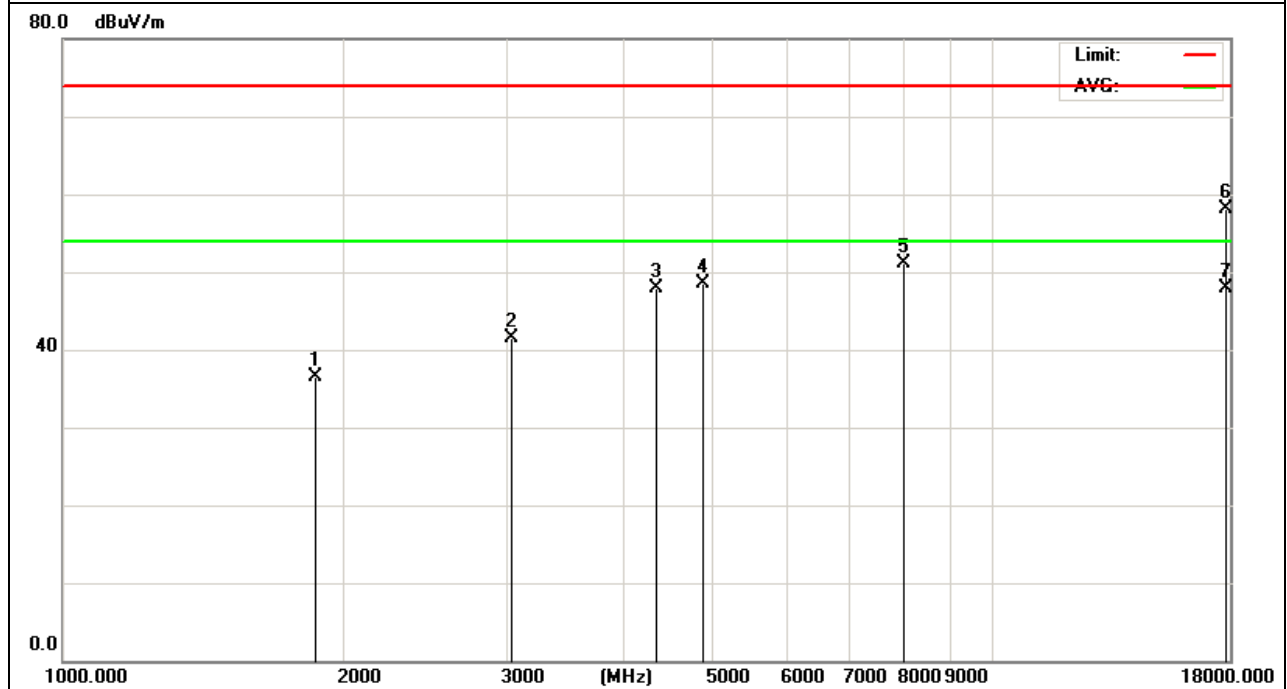


Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1869.541	45.97	-9.46	36.51	74.00	-37.49	peak
3035.662	43.03	-1.59	41.44	74.00	-32.56	peak
4352.314	43.41	4.43	47.84	74.00	-26.16	peak
4862.975	43.34	5.13	48.47	74.00	-25.53	peak
8017.689	40.74	10.40	51.14	74.00	-22.86	peak
17774.741	33.34	24.84	58.18	74.00	-15.82	peak
17774.741	23.02	24.84	47.86	54.00	-6.14	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

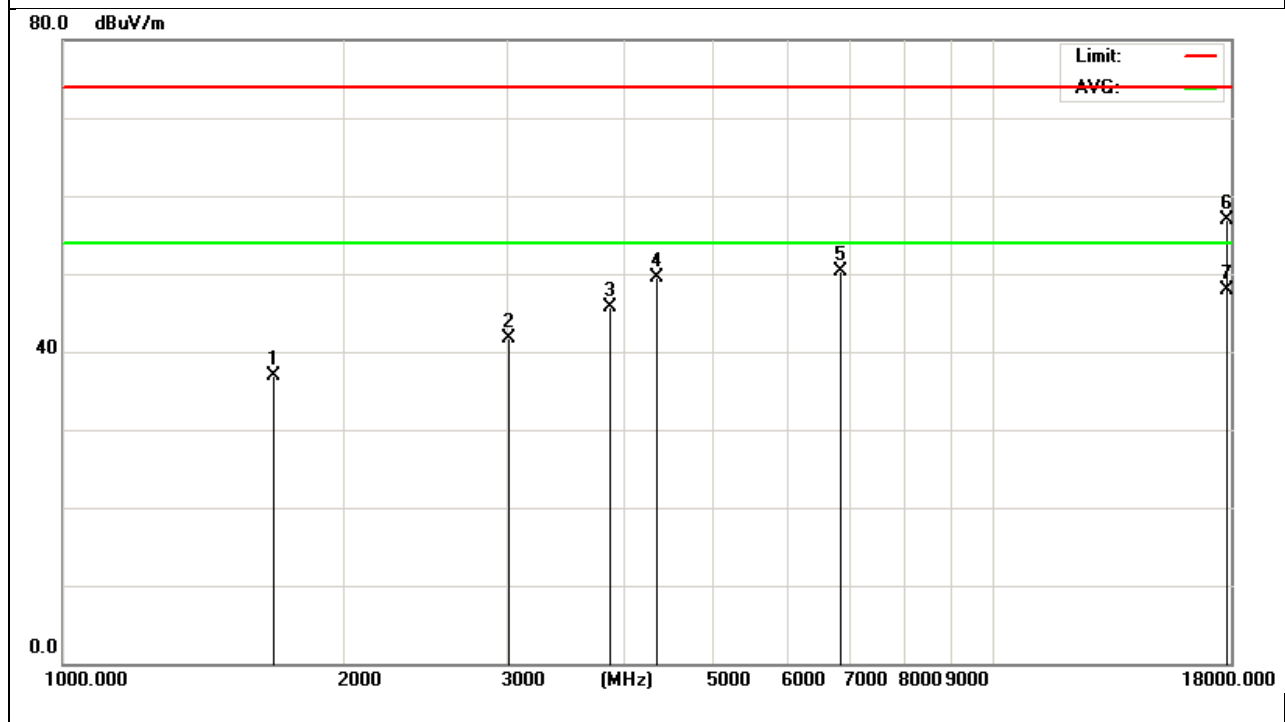


Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1684.054	46.54	-9.68	36.86	74	-37.14	peak
3011.592	43.36	-1.65	41.71	74	-32.29	peak
3869.964	42.88	2.89	45.77	74	-28.23	peak
4333.257	45.19	4.4	49.59	74	-24.41	peak
6846.658	44.26	6.08	50.34	74	-23.66	peak
17781.021	32.05	24.84	56.89	74	-17.11	peak
17781.021	23.04	24.84	47.88	54	-6.12	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

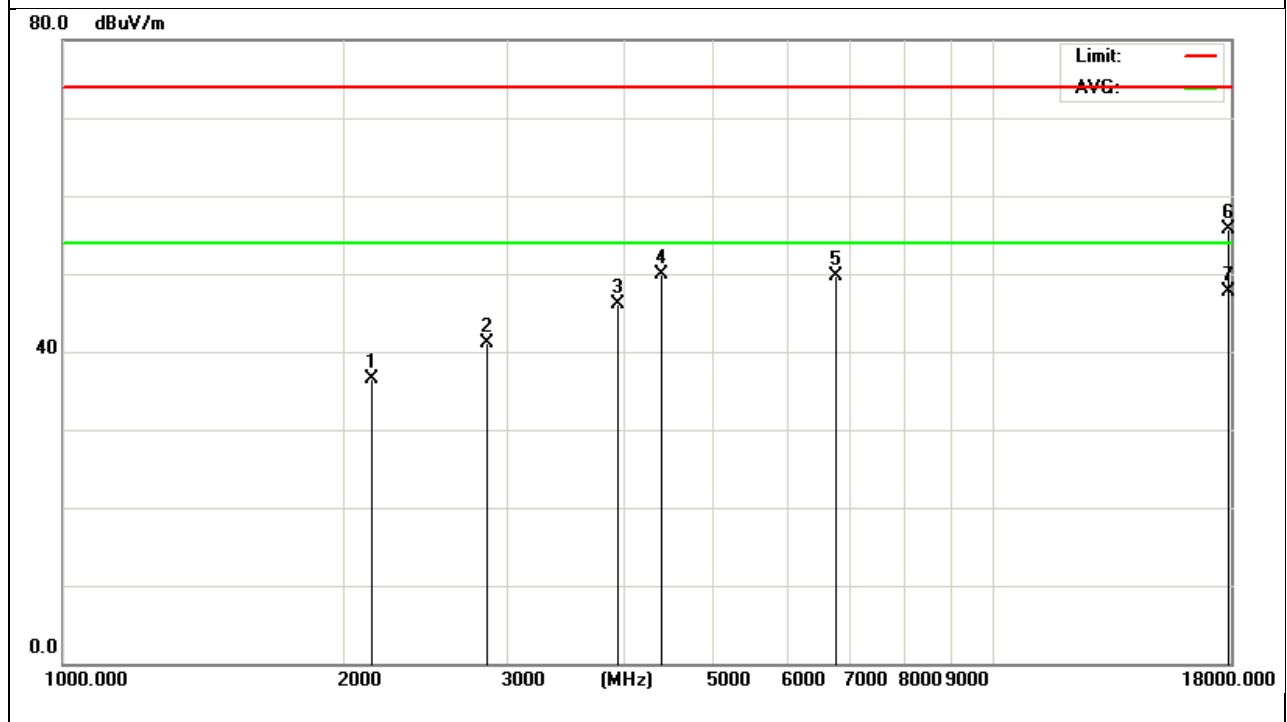


Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2150.357	44.28	-7.83	36.45	74.00	-37.55	peak
2848.248	43.69	-2.62	41.07	74.00	-32.93	peak
3940.389	42.74	3.41	46.15	74.00	-27.85	peak
4388.224	45.36	4.50	49.86	74.00	-24.14	peak
6762.340	43.74	6.03	49.77	74.00	-24.23	peak
17858.311	31.02	24.78	55.80	74.00	-18.20	peak
17858.311	22.85	24.78	47.63	54.00	-6.37	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

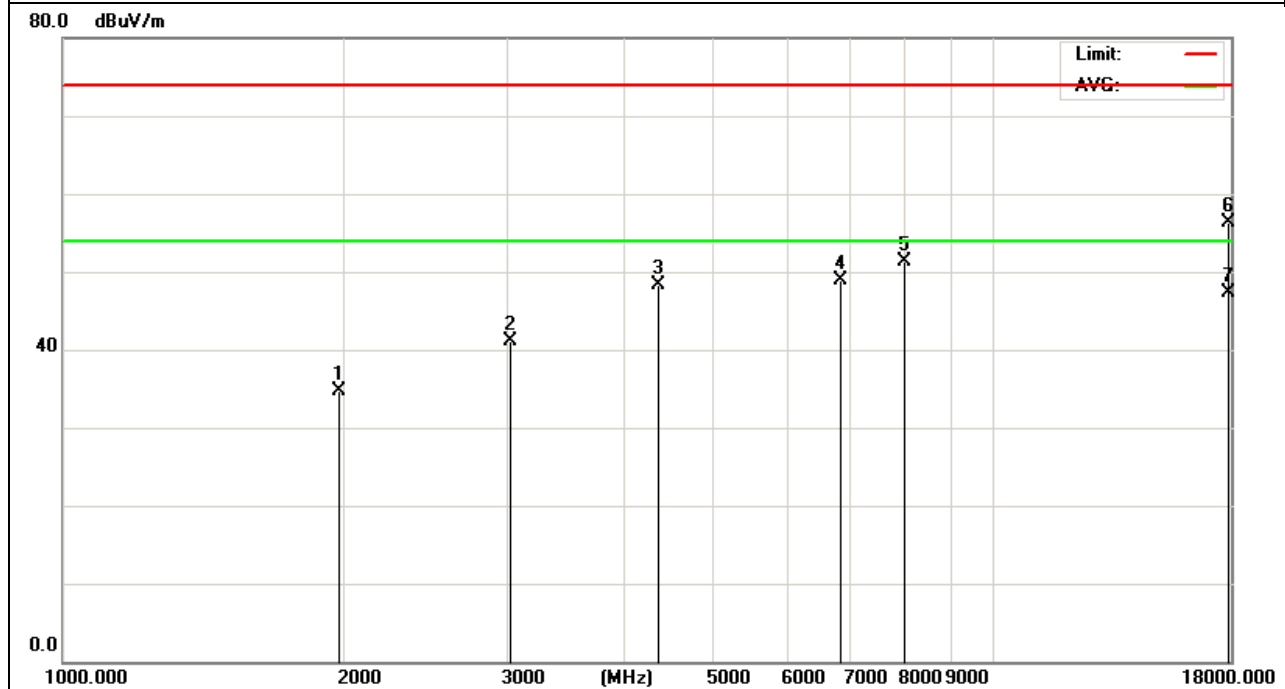


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1983.221	43.93	-9.15	34.78	74.00	-39.22	peak
3018.417	42.81	-1.64	41.17	74.00	-32.83	peak
4355.691	43.77	4.45	48.22	74.00	-25.78	peak
6839.147	42.86	6.08	48.94	74.00	-25.06	peak
8010.279	40.85	10.40	51.25	74.00	-22.75	peak
17871.259	31.46	24.77	56.23	74.00	-17.77	peak
17871.259	22.58	24.77	47.35	54.00	-6.65	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

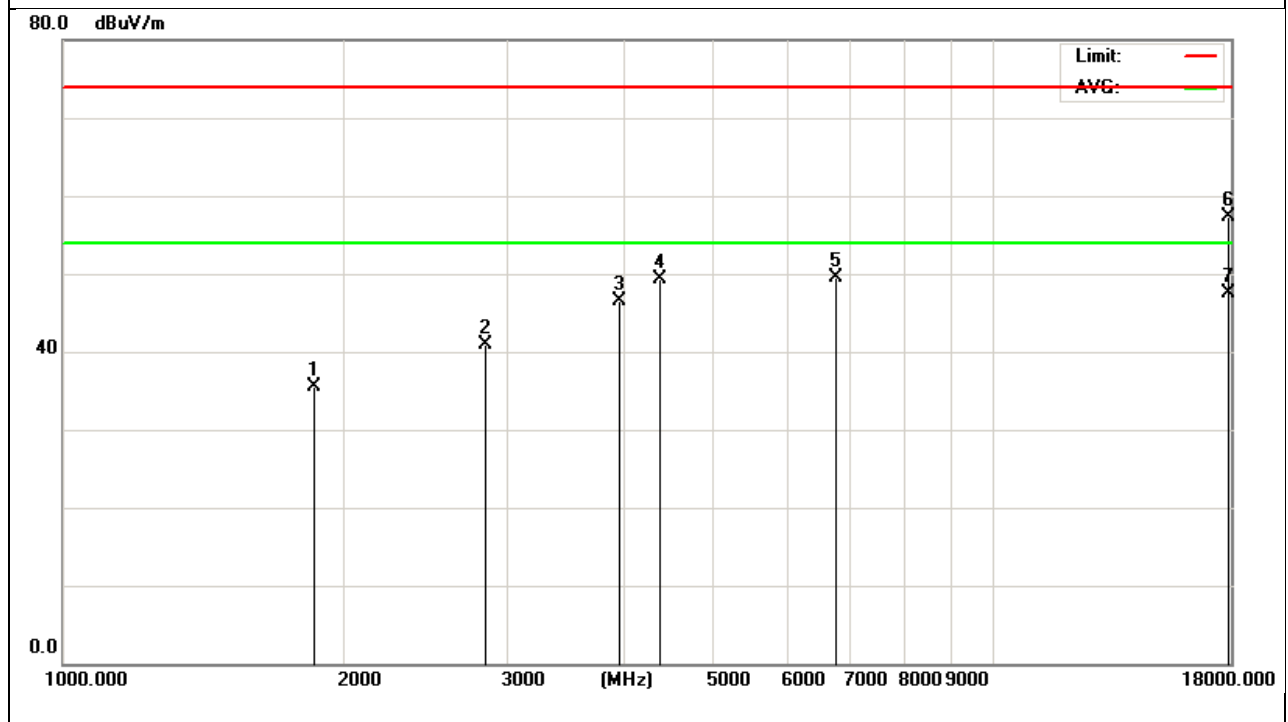


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1860.242	44.99	-9.45	35.54	74.00	-38.46	peak
2840.674	43.61	-2.65	40.96	74.00	-33.04	peak
3950.281	43.02	3.47	46.49	74.00	-27.51	peak
4375.945	44.76	4.49	49.25	74.00	-24.75	peak
6775.847	43.47	6.03	49.50	74.00	-24.50	peak
17888.640	32.64	24.76	57.40	74.00	-16.60	peak
17888.640	22.84	24.76	47.60	54.00	-6.40	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

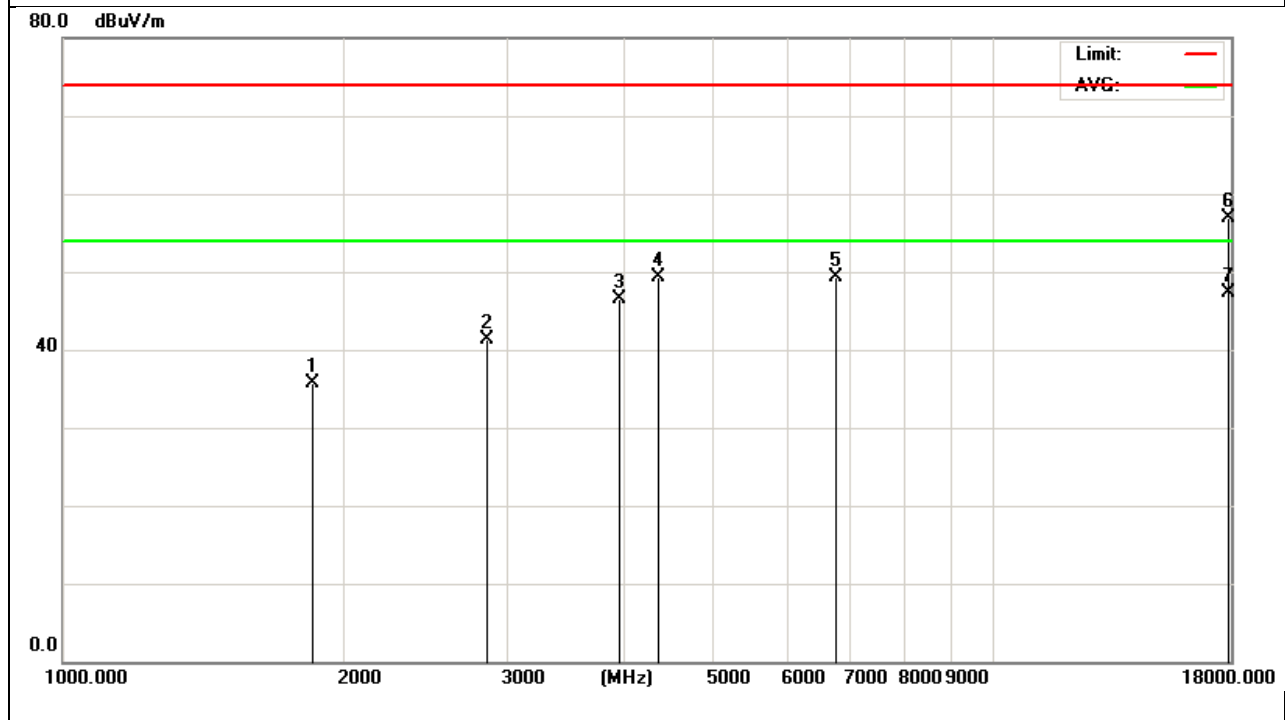


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1855.462	45.10	-9.44	35.66	74.00	-38.34	peak
2854.614	43.92	-2.58	41.34	74.00	-32.66	peak
3957.234	43.01	3.53	46.54	74.00	-27.46	peak
4362.712	44.86	4.46	49.32	74.00	-24.68	peak
6770.369	43.29	6.03	49.32	74.00	-24.68	peak
17864.241	32.14	24.77	56.91	74.00	-17.09	peak
17864.241	22.45	24.77	47.22	54.00	-6.78	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

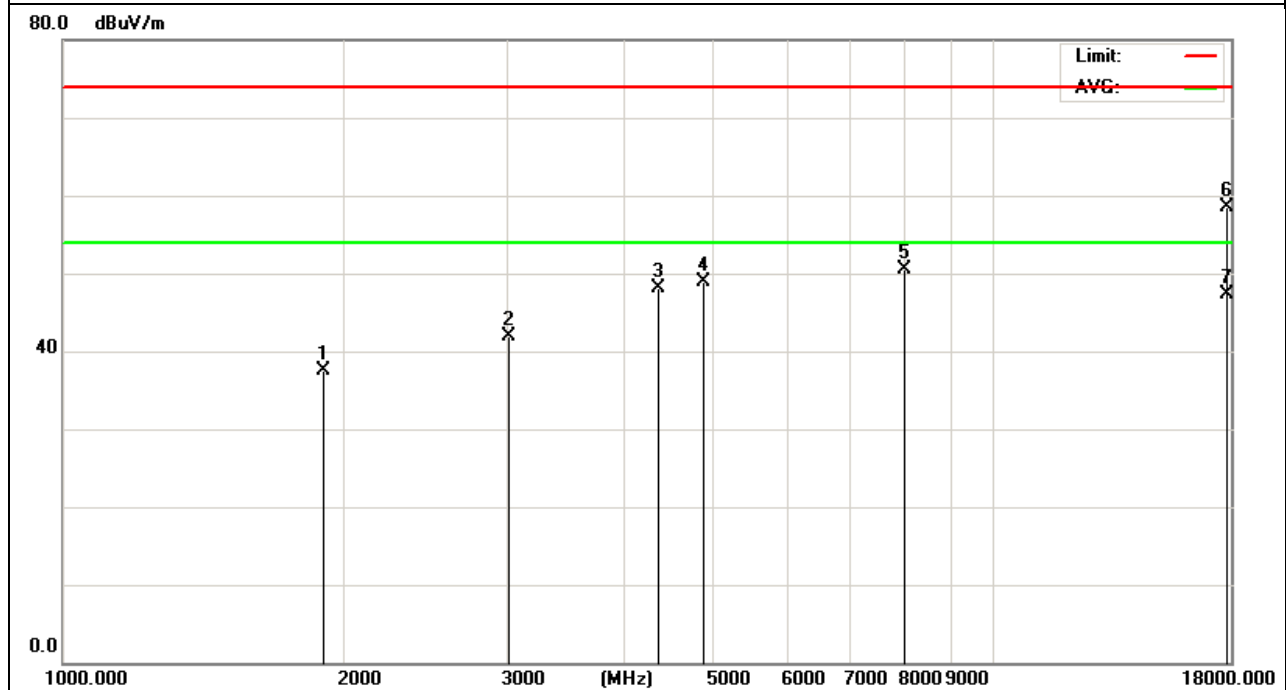


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1900.248	47.06	-9.52	37.54	74.00	-36.46	peak
3011.441	43.50	-1.65	41.85	74.00	-32.15	peak
4365.258	43.66	4.46	48.12	74.00	-25.88	peak
4860.147	43.84	5.12	48.96	74.00	-25.04	peak
8001.394	40.12	10.38	50.50	74.00	-23.50	peak
17805.678	33.64	24.82	58.46	74.00	-15.54	peak
17805.678	22.51	24.82	47.33	54.00	-6.67	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

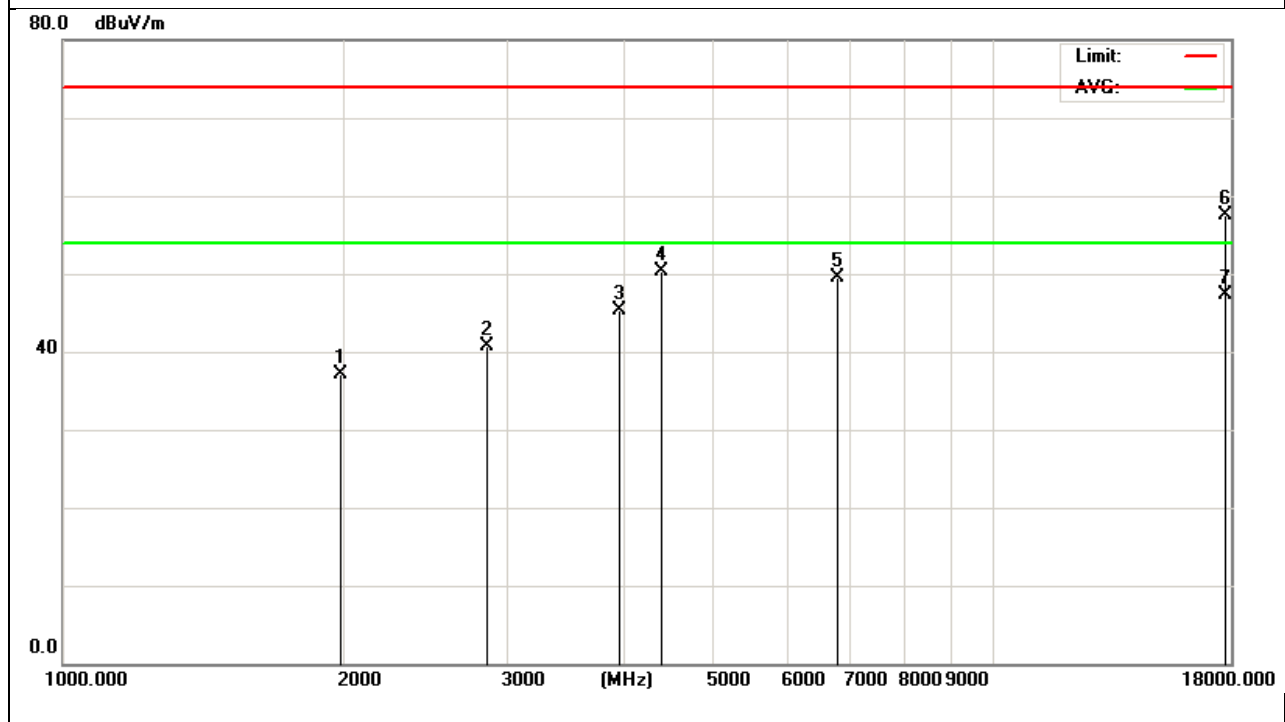


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1988.410	46.28	-9.13	37.15	74.00	-36.85	peak
2851.941	43.37	-2.60	40.77	74.00	-33.23	peak
3955.147	41.89	3.51	45.40	74.00	-28.60	peak
4386.214	45.87	4.50	50.37	74.00	-23.63	peak
6779.515	43.55	6.04	49.59	74.00	-24.41	peak
17735.520	32.68	24.87	57.55	74.00	-16.45	peak
17735.520	22.34	24.87	47.21	54.00	-6.79	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

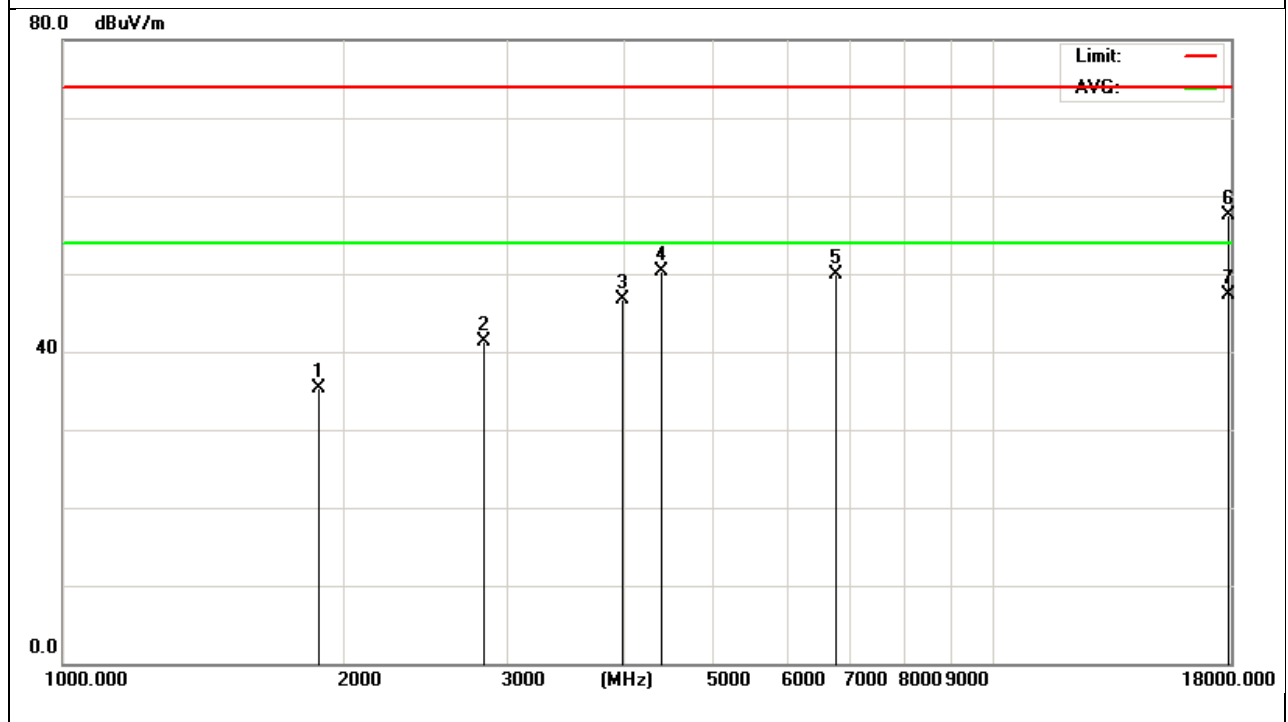


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1881.254	44.78	-9.49	35.29	74.00	-38.71	peak
2834.224	43.90	-2.68	41.22	74.00	-32.78	peak
3990.338	43.02	3.76	46.78	74.00	-27.22	peak
4396.784	45.81	4.53	50.34	74.00	-23.66	peak
6762.666	43.83	6.03	49.86	74.00	-24.14	peak
17859.634	32.67	24.78	57.45	74.00	-16.55	peak
17859.634	22.54	24.78	47.32	54.00	-6.68	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

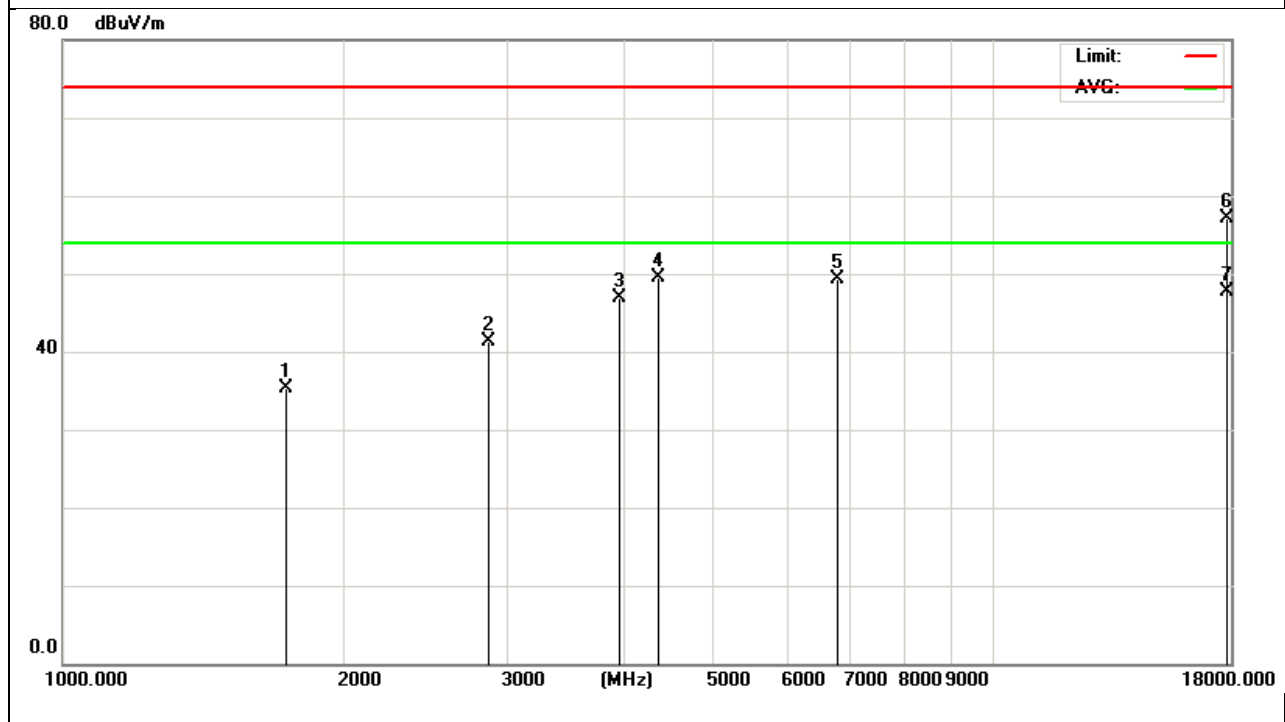


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1736.241	44.80	-9.52	35.28	74.00	-38.72	peak
2855.468	43.87	-2.58	41.29	74.00	-32.71	peak
3966.411	43.31	3.60	46.91	74.00	-27.09	peak
4361.274	44.99	4.46	49.45	74.00	-24.55	peak
6779.627	43.31	6.04	49.35	74.00	-24.65	peak
17784.941	32.24	24.83	57.07	74.00	-16.93	peak
17784.941	22.78	24.83	47.61	54.00	-6.39	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

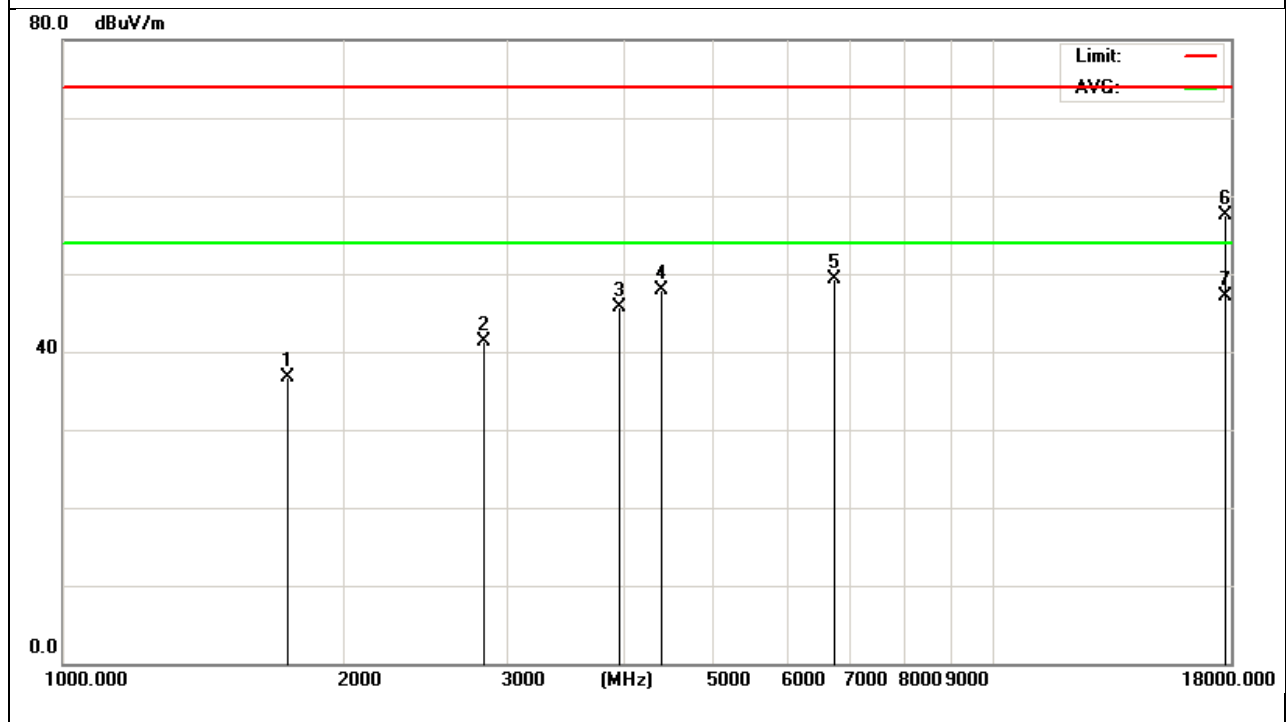


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1744.204	46.26	-9.51	36.75	74.00	-37.25	peak
2834.659	43.89	-2.68	41.21	74.00	-32.79	peak
3955.026	42.22	3.51	45.73	74.00	-28.27	peak
4387.796	43.32	4.50	47.82	74.00	-26.18	peak
6755.045	43.28	6.01	49.29	74.00	-24.71	peak
17692.165	32.54	24.90	57.44	74.00	-16.56	peak
17692.165	22.16	24.90	47.06	54.00	-6.94	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

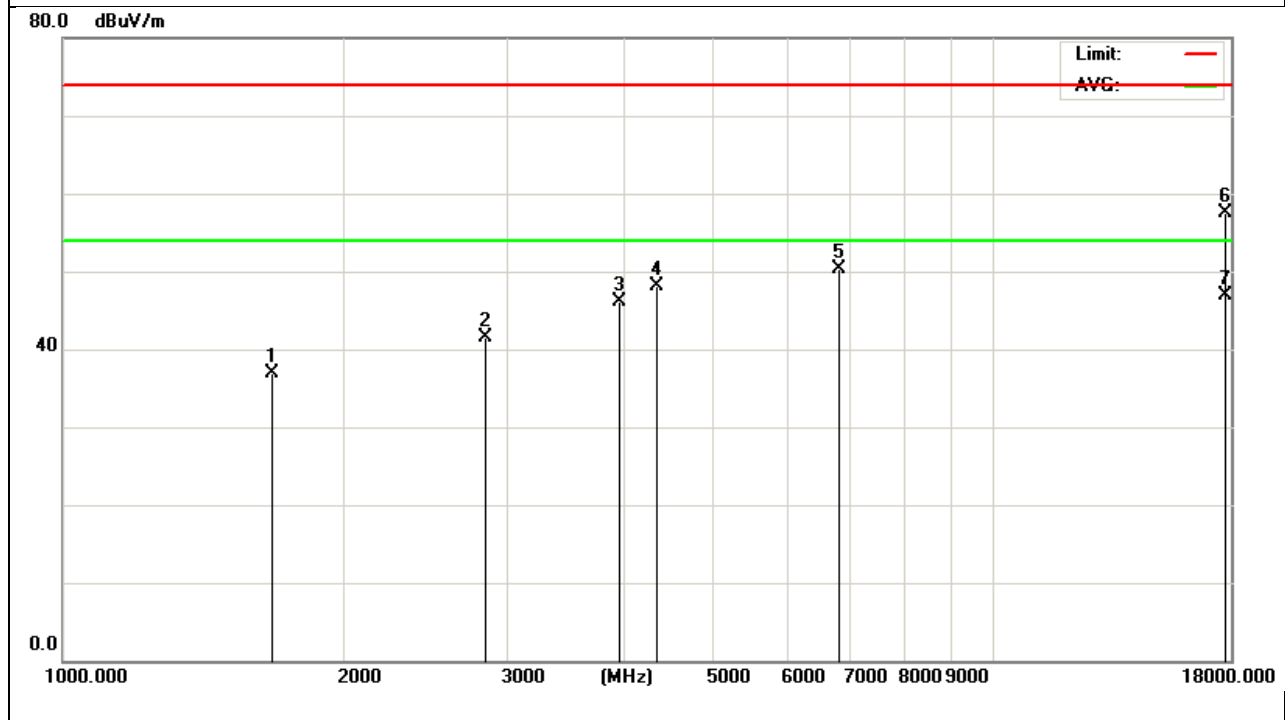


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1674.088	46.54	-9.70	36.84	74.00	-37.16	peak
2843.564	44.24	-2.65	41.59	74.00	-32.41	peak
3949.658	42.63	3.47	46.10	74.00	-27.90	peak
4353.541	43.58	4.43	48.01	74.00	-25.99	peak
6798.425	44.26	6.05	50.31	74.00	-23.69	peak
17696.652	32.54	24.89	57.43	74.00	-16.57	peak
17696.652	22.11	24.89	47.00	54.00	-7.00	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

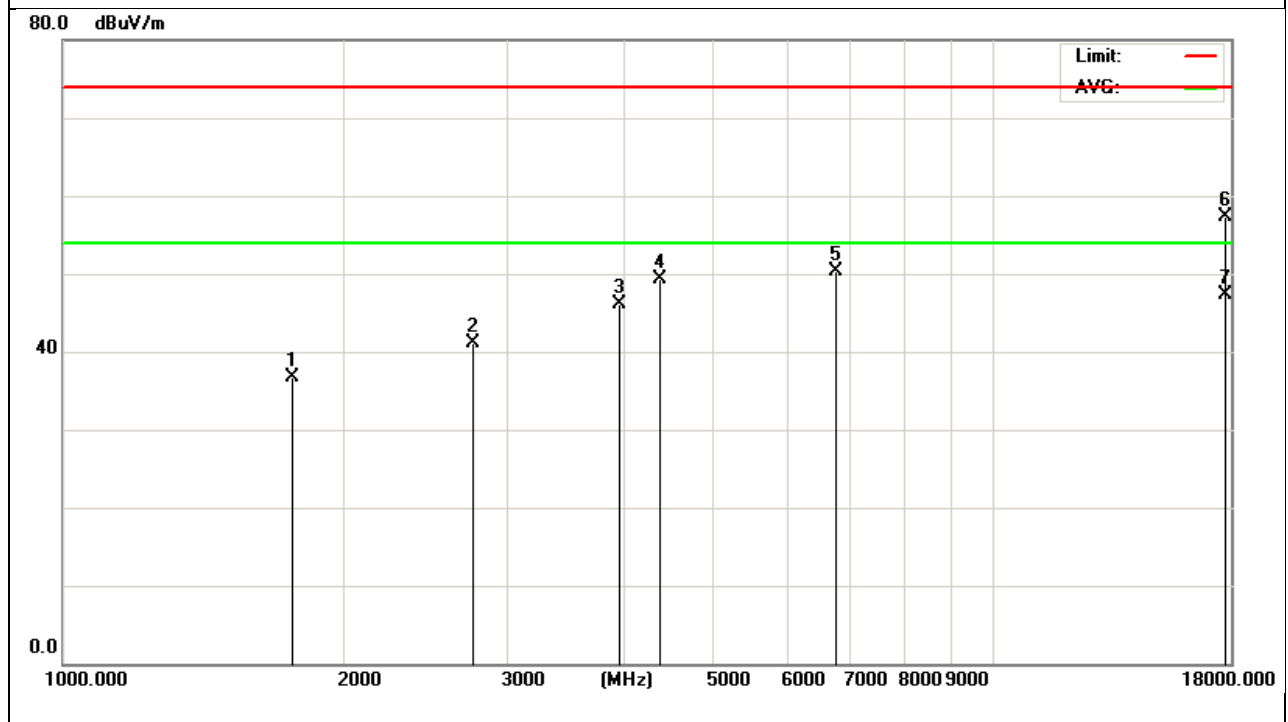


Orthogonal Axis	X
Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1765.592	46.21	-9.44	36.77	74.00	-37.23	peak
2755.064	44.27	-3.17	41.10	74.00	-32.90	peak
3949.234	42.56	3.46	46.02	74.00	-27.98	peak
4378.525	44.85	4.49	49.34	74.00	-24.66	peak
6773.026	44.36	6.03	50.39	74.00	-23.61	peak
17698.584	32.47	24.90	57.37	74.00	-16.63	peak
17698.584	22.32	24.90	47.22	54.00	-6.78	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

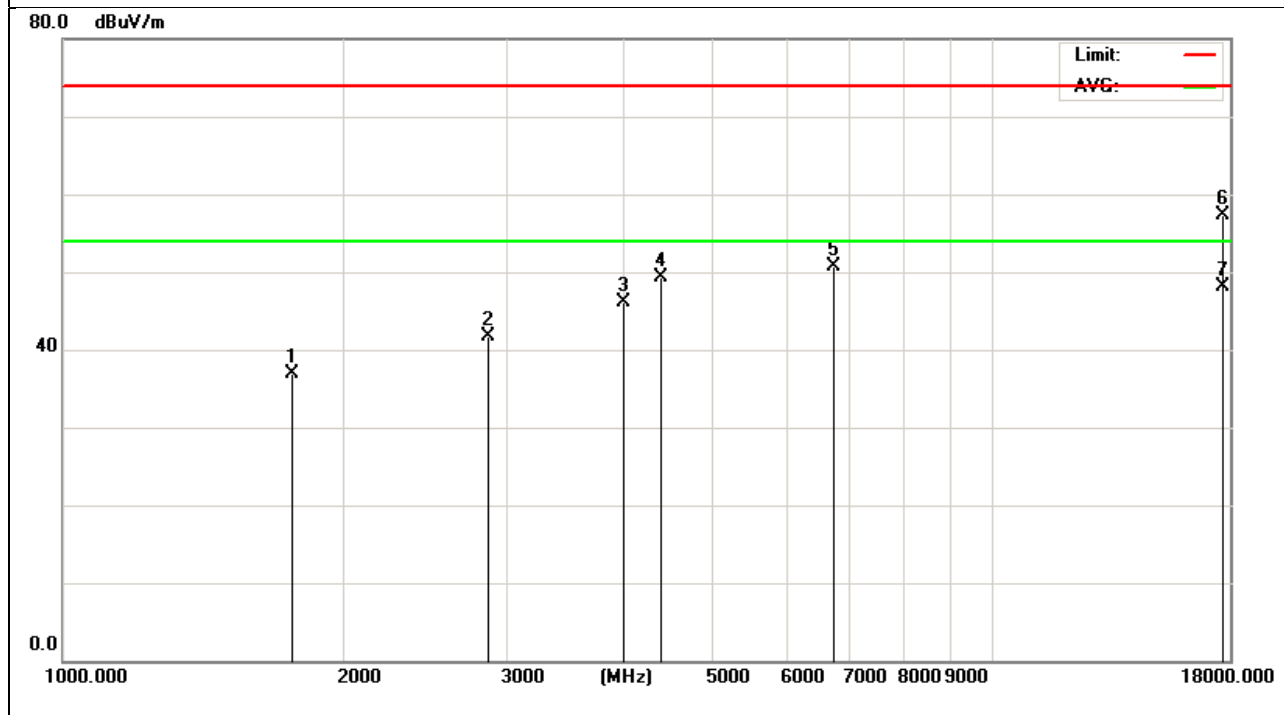


Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1763.249	46.39	-9.45	36.94	74.00	-37.06	peak
2864.232	44.33	-2.55	41.78	74.00	-32.22	peak
3994.019	42.32	3.79	46.11	74.00	-27.89	peak
4385.301	44.88	4.50	49.38	74.00	-24.62	peak
6755.583	44.65	6.01	50.66	74.00	-23.34	peak
17653.325	32.47	24.92	57.39	74.00	-16.61	peak
17653.325	23.14	24.92	48.06	54.00	-5.94	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

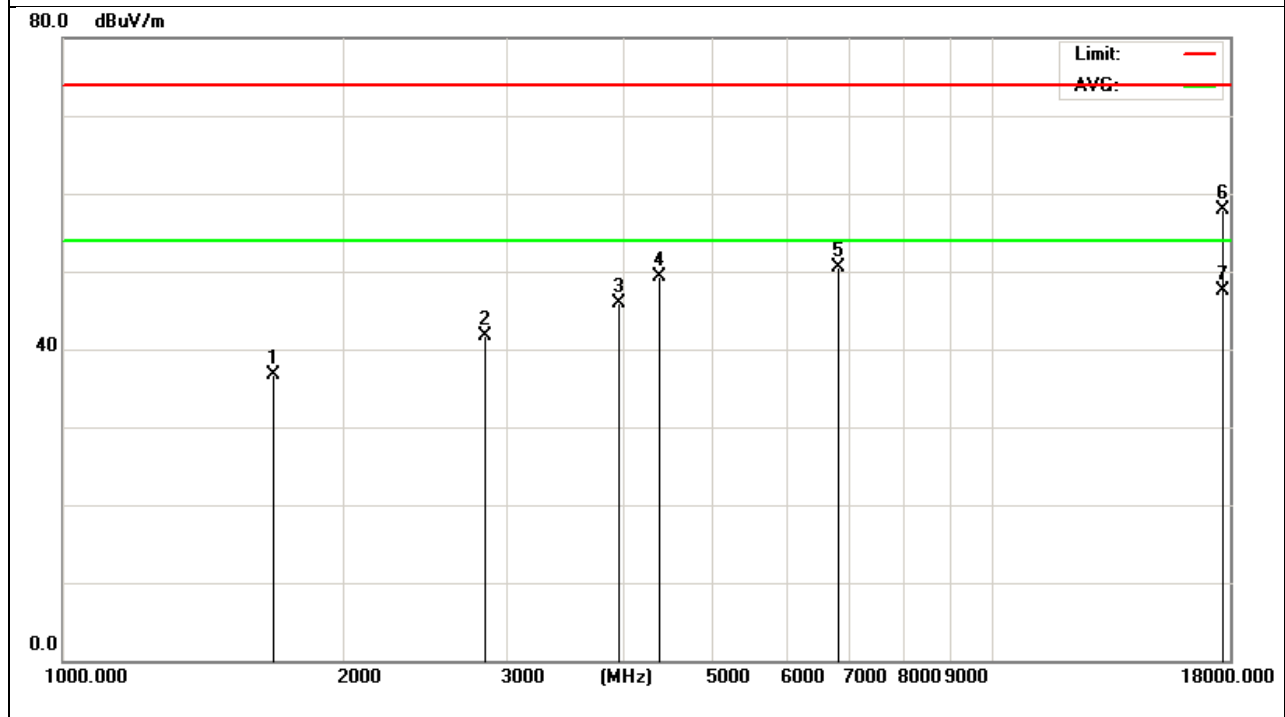


Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1682.334	46.32	-9.68	36.64	74.00	-37.36	peak
2846.169	44.26	-2.63	41.63	74.00	-32.37	peak
3965.367	42.26	3.59	45.85	74.00	-28.15	peak
4368.116	44.82	4.47	49.29	74.00	-24.71	peak
6796.021	44.56	6.04	50.60	74.00	-23.40	peak
17654.224	32.97	24.92	57.89	74.00	-16.11	peak
17654.224	22.63	24.92	47.55	54.00	-6.45	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

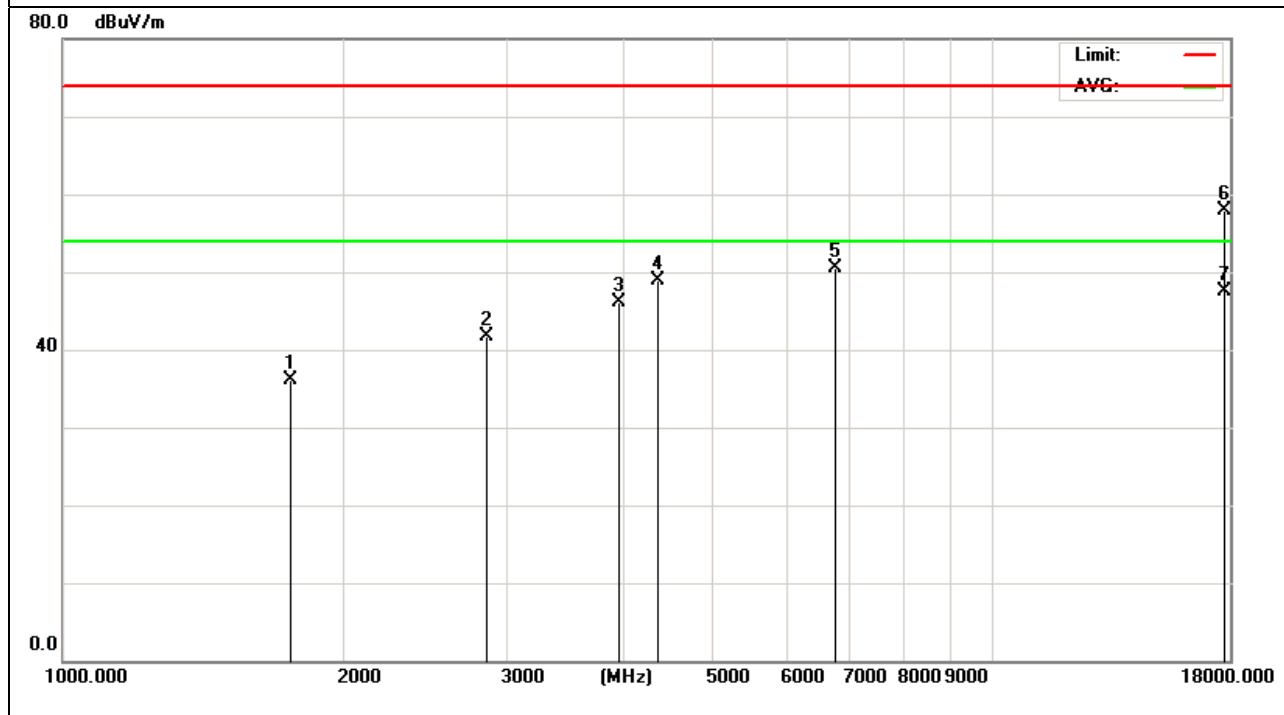


Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1754.258	45.63	-9.48	36.15	74.00	-37.85	peak
2848.364	44.26	-2.62	41.64	74.00	-32.36	peak
3952.006	42.57	3.49	46.06	74.00	-27.94	peak
4365.097	44.36	4.46	48.82	74.00	-25.18	peak
6765.692	44.57	6.02	50.59	74.00	-23.41	peak
17691.639	33.03	24.90	57.93	74.00	-16.07	peak
17691.639	22.55	24.90	47.45	54.00	-6.55	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

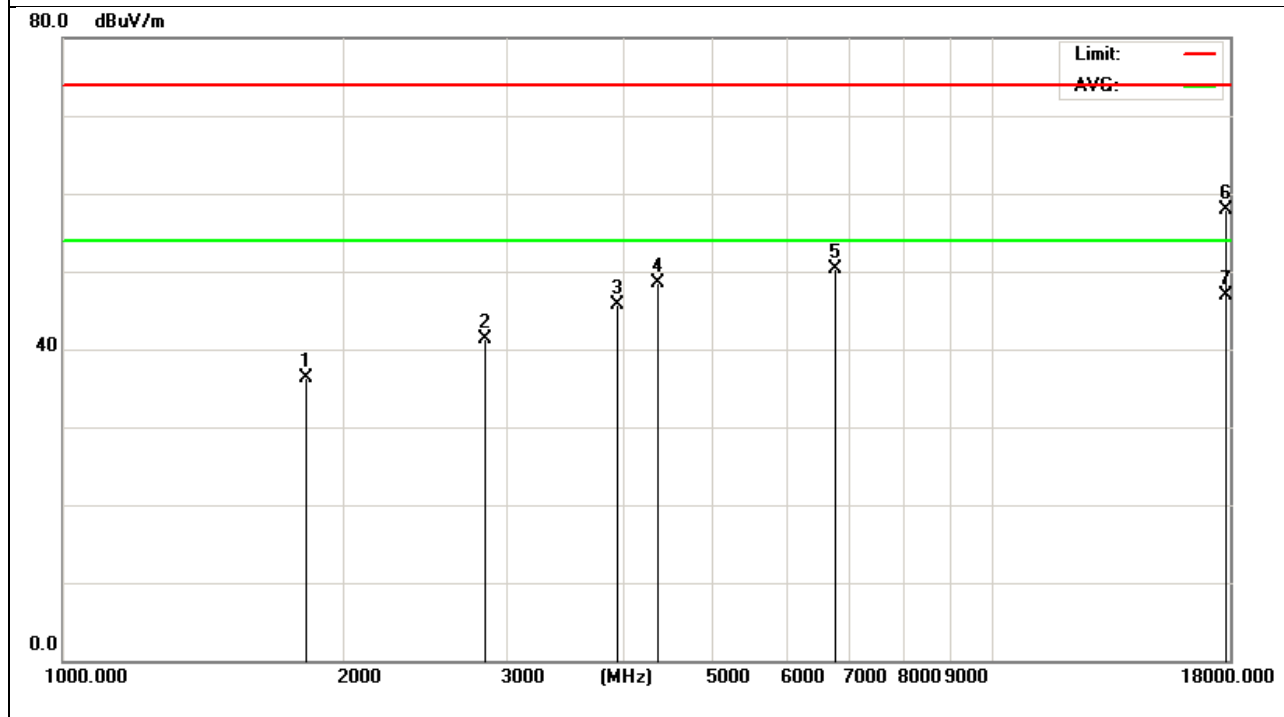


Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1821.026	45.76	-9.38	36.38	74.00	-37.62	peak
2844.679	43.97	-2.64	41.33	74.00	-32.67	peak
3945.669	42.36	3.44	45.80	74.00	-28.20	peak
4364.258	44.02	4.46	48.48	74.00	-25.52	peak
6775.037	44.32	6.03	50.35	74.00	-23.65	peak
17785.105	33.02	24.83	57.85	74.00	-16.15	peak
17785.105	22.14	24.83	46.97	54.00	-7.03	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

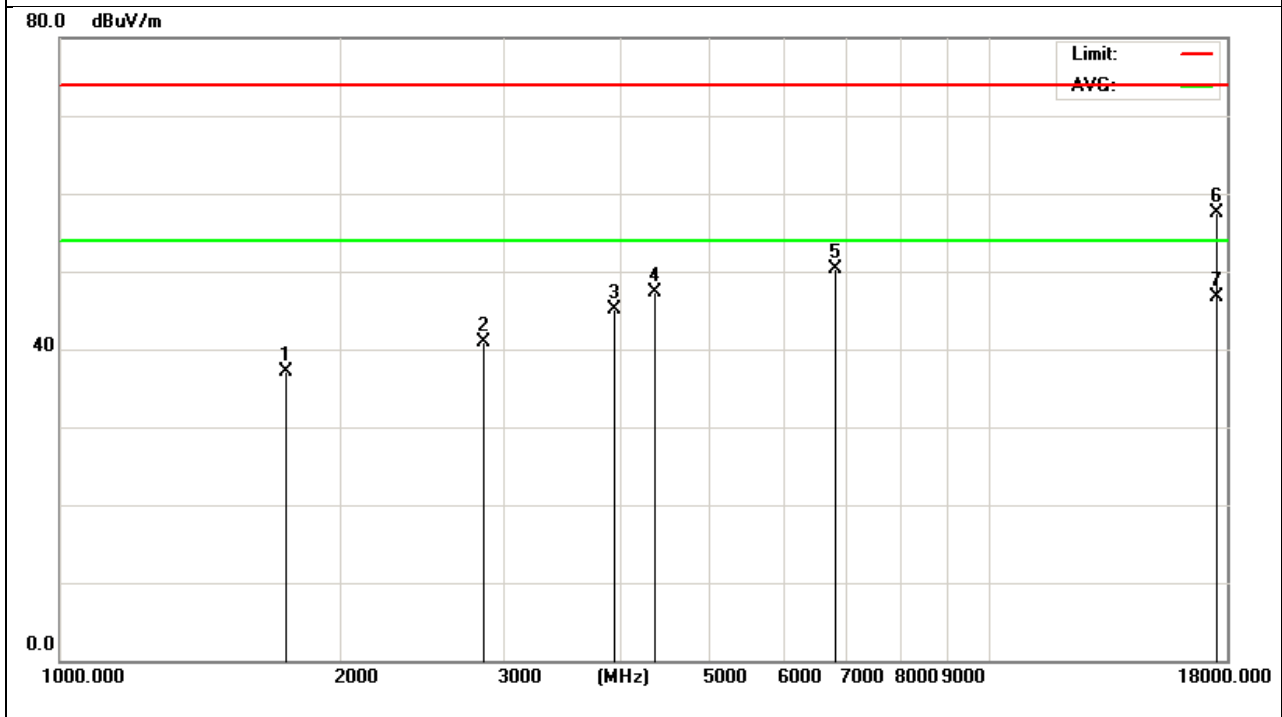


Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 MHz

Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1750.265	46.62	-9.48	37.14	74.00	-36.86	peak
2849.631	43.57	-2.61	40.96	74.00	-33.04	peak
3945.725	41.63	3.44	45.07	74.00	-28.93	peak
4366.024	42.87	4.46	47.33	74.00	-26.67	peak
6796.326	44.28	6.04	50.32	74.00	-23.68	peak
17525.982	32.49	25.01	57.50	74.00	-16.50	peak
17525.982	21.63	25.01	46.64	54.00	-7.36	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

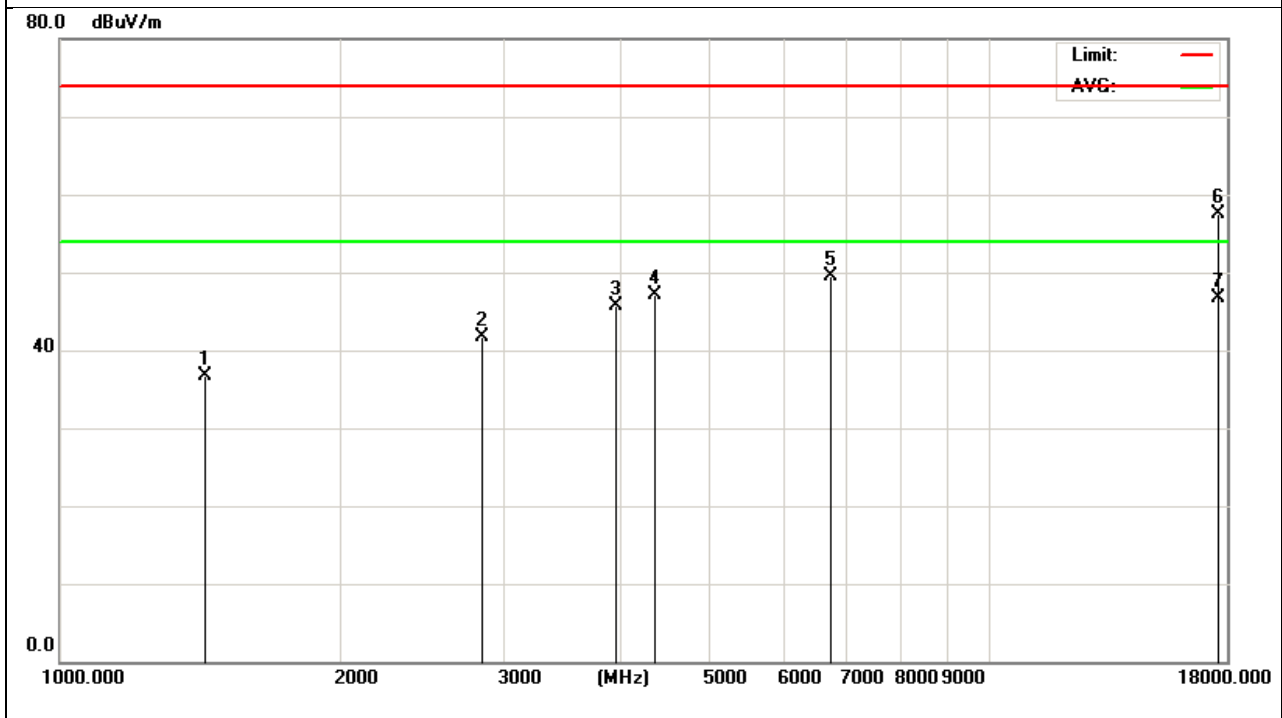


Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1432.689	46.87	-10.15	36.72	74.00	-37.28	peak
2846.778	44.36	-2.63	41.73	74.00	-32.27	peak
3947.514	42.22	3.45	45.67	74.00	-28.33	peak
4361.320	42.74	4.46	47.20	74.00	-26.80	peak
6749.663	43.56	6.01	49.57	74.00	-24.43	peak
17597.547	32.49	24.96	57.45	74.00	-16.55	peak
17597.547	21.68	24.96	46.64	54.00	-7.36	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

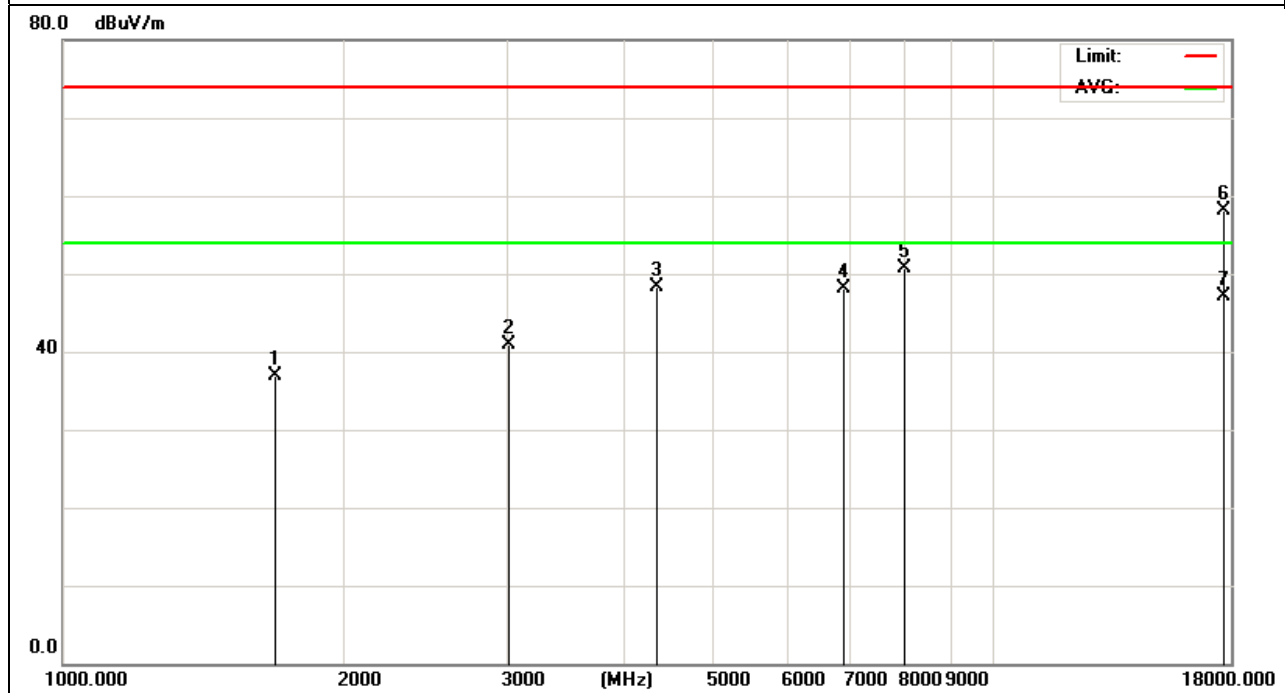


Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1689.203	46.48	-9.66	36.82	74.00	-37.18	peak
3016.132	42.54	-1.64	40.90	74.00	-33.10	peak
4335.258	43.89	4.40	48.29	74.00	-25.71	peak
6879.659	42.05	6.11	48.16	74.00	-25.84	peak
8008.684	40.22	10.40	50.62	74.00	-23.38	peak
17659.354	33.14	24.92	58.06	74.00	-15.94	peak
17659.354	22.23	24.92	47.15	54.00	-6.85	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

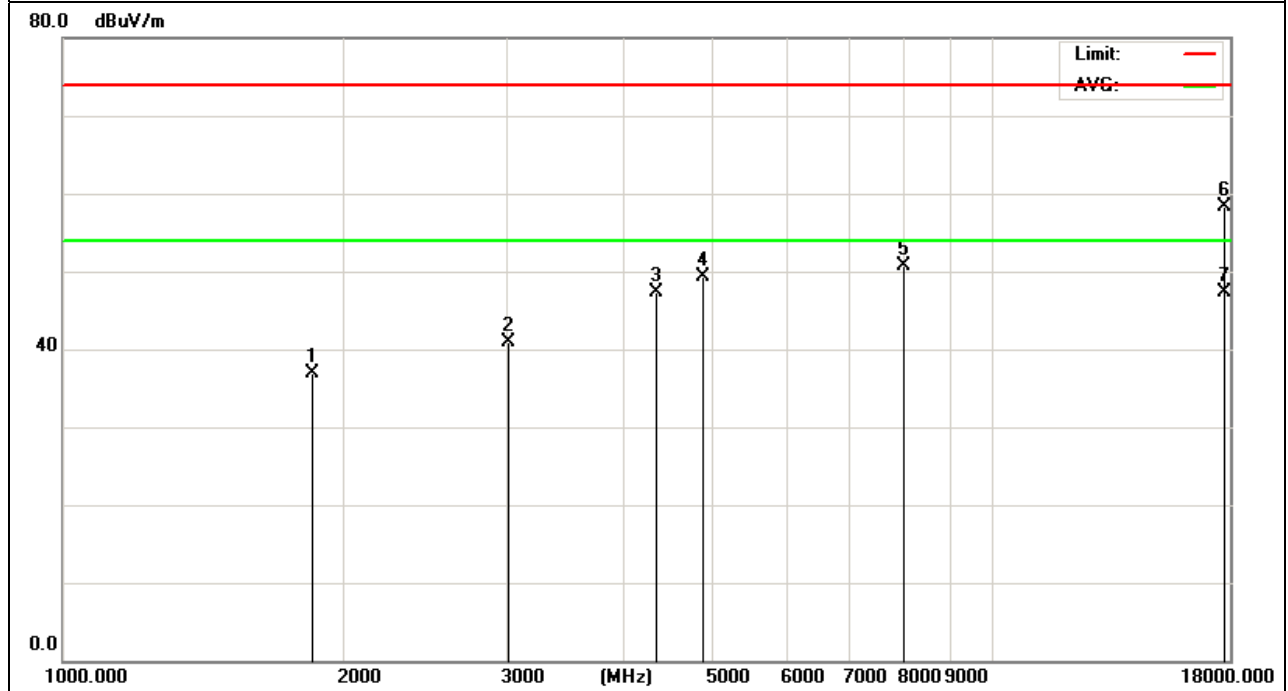


Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1854.021	46.32	-9.45	36.87	74.00	-37.13	peak
3012.554	42.57	-1.65	40.92	74.00	-33.08	peak
4352.293	42.89	4.43	47.32	74.00	-26.68	peak
4865.502	44.19	5.13	49.32	74.00	-24.68	peak
8011.246	40.26	10.40	50.66	74.00	-23.34	peak
17702.021	33.44	24.89	58.33	74.00	-15.67	peak
17702.021	22.32	24.89	47.21	54.00	-6.79	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



6BANDWIDTH TEST

6.1LIMIT

FCC Part15, Subpart E (15.407) RSS-Gen and RSS-247			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a) 15.407(e) RSS-247 6.2.1.1 RSS-247 6.2.4.1	26 dB Bandwidth	-	5150-5250
	6dB Bandwidth	Minimum 500 kHz	5725-5850

6.2TEST PROCEDURE AND SETTING

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- Spectrum Setting:
For UNII-1:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz (Bandwidth 20 MHz) 510 KHz (Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz (Bandwidth 20 MHz) 2 MHz (Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

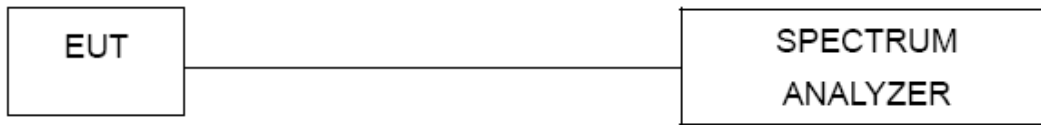
For UNII-3:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	6dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- Measured the spectrum width with power higher than 26dB / 6dB below carrier.

6.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/23	2023/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A	N/A

6.4 TEST SETUP**6.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

ANT 1(2) Represent the value of antenna 1 and 2, The worst data is 1 Antenna a ,only shown Antenna 1 Plot.

UNII-1_TX A Mode			
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	20.57	16.777
40	5200	20.55	16.621
48	5240	20.22	16.666

CH36



CH40

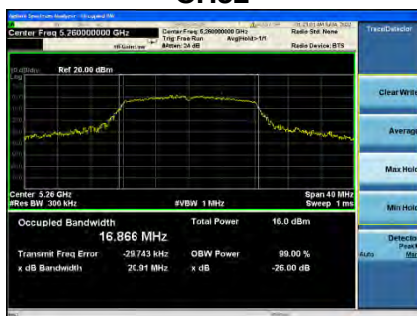


CH48



UNII-2A_TX A Mode			
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
52	5260	20.91	16.866
60	5300	20.72	16.738
64	5320	21.63	16.747

CH52



CH60



CH64



UNII-2C_TX A Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
100	5500	20.32	16.846
120	5600	20.82	16.705
140	5700	20.37	16.723

CH100



CH120



CH140



UNII-1_TX N (HT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	20.48	17.596
40	5200	21.93	17.603
48	5240	22.93	17.636

CH36



CH40



CH48



UNII-2A_TX N (HT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
52	5260	22.80	17.673
60	5300	25.13	17.768
64	5320	25.13	17.726

CH52



CH60



CH64



UNII-2C_TX N (HT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
100	5500	21.69	17.669
120	5600	22.97	17.699
140	5700	20.86	17.604

CH100



CH120



CH140



UNII-1_TX N (HT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	40.98	36.169
46	5230	41.22	36.204

CH38



CH46



UNII-2A_TX N (HT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
54	5270	47.94	36.204
62	5310	57.15	36.345

CH54

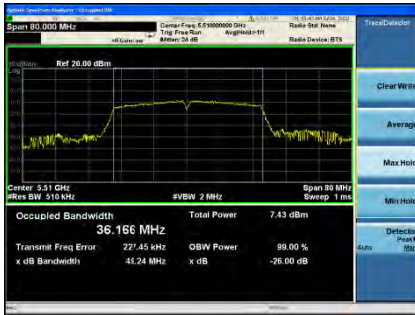


CH62



UNII-2C_TX N (HT40) Mode			
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
102	5510	49.24	36.166
118	5590	43.36	36.269
134	5670	40.61	36.002

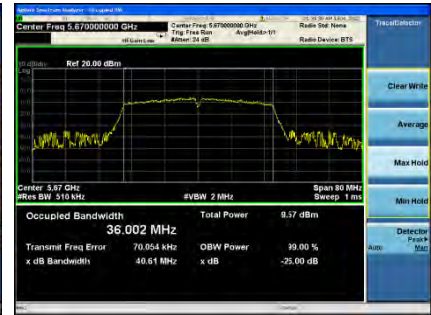
CH102



CH118



CH134



UNII-3_TX A Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
149	5745	15.14	16.336	500	PASS
157	5785	15.14	16.687	500	PASS
165	5825	15.09	16.919	500	PASS

CH149



6 dB Bandwidth
CH157



CH165



UNII-3_TX N (HT20) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
149	5745	15.14	17.810	500	PASS
157	5785	15.10	17.833	500	PASS
165	5825	15.16	17.880	500	PASS

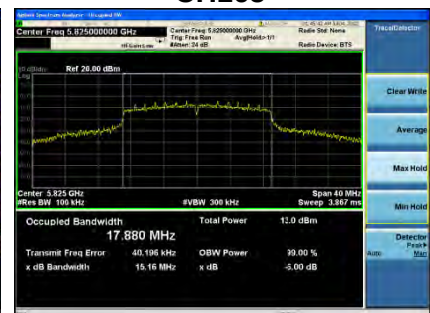
CH149



6 dB Bandwidth
CH157



CH165



UNII-3_TX N (HT40) Mode					
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
151	5755	35.14	36.336	500	PASS
159	5795	32.60	36.353	500	PASS

6 dB Bandwidth

CH151



CH159



UNII-1_TX AC (VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	20.38	17.596
40	5200	20.18	17.578
48	5240	20.37	17.617

CH36



CH40



CH48



UNII-2A_TX AC (VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
52	5260	20.93	17.652
60	5300	20.48	17.687
64	5320	21.10	17.715

CH52



CH60



CH64



UNII-2C_TX AC (VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
100	5500	20.41	17.606
120	5600	20.30	17.604
140	5700	20.15	17.605

CH100



CH120



CH140



UNII-1_TX AC (VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	40.83	36.007
46	5230	40.63	36.046

CH38



CH46



UNII-2A_TX AC (VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
54	5270	43.08	36.078
62	5310	51.70	36.146

CH54



CH62



UNII-2C_TX AC (VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
102	5510	40.34	35.957
118	5590	40.15	35.875
134	5670	40.48	35.966

CH102



CH118



CH134



UNII-1_TX AC (VHT80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
42	5210	81.98	75.627

CH42



UNII-2A_TX AC (VHT80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
58	5290	87.21	75.785

CH58



UNII-2C_TX AC (VHT80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
106	5530	81.59	75.634

CH106



UNII-3_TX AC (VHT20) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
149	5745	15.13	17.778	500	PASS
157	5785	15.16	17.866	500	PASS
165	5825	15.09	17.845	500	PASS

CH149



6 dB Bandwidth
CH157



CH165



UNII-3_TX AC (VHT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
151	5755	35.00	36.309	500	PASS
159	5795	35.12	36.405	500	PASS

6 dB Bandwidth

CH151



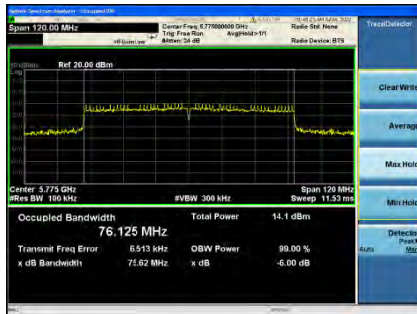
CH159



UNII-3_TX AC (VHT80) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Emission Bandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
155	5775	75.62	76.125	500	PASS

6 dB Bandwidth CH155



7 MAXIMUM OUTPUT POWER TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)&RSS-247			
Section	Test Item	Limit	Frequency Range (MHz)
RSS-247 6.2.1.1	EIRP Output Power	not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less	5150-5250
15.407(a)	Maximum Output Power	AP device: 1 Watt (30dBm) Client device: 250mW (24dBm)	5150-5250
15.407(a) RSS-247 6.2.4.1	Maximum Output Power	1 Watt (30dBm)	5725-5850

Note:

- For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- B is the 99% emission bandwidth in megahertz.

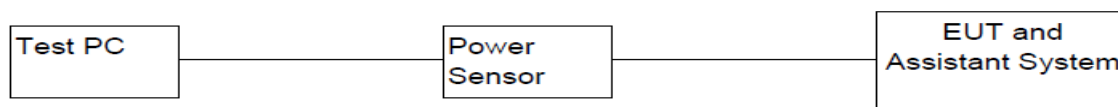
7.2 TEST PROCEDURE AND SETTING

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- EIRP Power=Output Power+Directional Gain
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=1.2dBi+1.2dBi=4.21dBi

7.3 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Power Sensor	KEYSIGHT	U2021XA	MY55240009	2022/05/23	2023/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A	N/A
3	RF Cable	Micable	C10-01-01-1	100309	N/A	N/A
4	Test Software	KEYSIGHT	Power Panel	V3.11	N/A	N/A

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

CH. No.	Frequency	Conducted Average Power(dBm)		total power (dBm)	Limit (dBm/MHz)	Result
		ANT A	ANT B			
TX 802.11a Mode						
CH36	5180	21.53	20.81	--	24	Pass
CH40	5200	21.24	20.64	--	24	Pass
CH48	5240	21.69	20.43	--	24	Pass
CH 52	5260	21.14	20.92	--	24	Pass
CH 56	5280	21.25	20.33	--	24	Pass
CH 64	5320	21.72	20.31	--	24	Pass
CH 100	5500	21.78	20.10	--	24	Pass
CH 120	5600	22.20	20.53	--	24	Pass
CH 140	5700	22.18	20.30	--	24	Pass
CH 149	5745	22.55	20.20	--	30	Pass
CH 157	5785	22.37	21.71	--	30	Pass
CH 165	5825	22.44	21.24	--	30	Pass
TX 802.11n20 Mode						
CH36	5180	18.58	17.36	21.02	24	Pass
CH40	5200	18.71	17.37	21.10	24	Pass
CH48	5240	18.64	18.20	21.44	24	Pass
CH 52	5260	19.15	18.02	21.63	24	Pass
CH 56	5280	19.55	17.63	21.71	24	Pass
CH 64	5320	19.42	18.71	22.09	24	Pass
CH 100	5500	19.20	17.79	21.56	24	Pass
CH 120	5600	19.33	17.67	21.59	24	Pass
CH 140	5700	18.67	17.99	21.35	24	Pass
CH 149	5745	18.58	17.89	21.26	30	Pass
CH 157	5785	18.28	17.68	21.00	30	Pass
CH 165	5825	18.68	17.19	21.01	30	Pass
TX 802.11n40 Mode						
CH38	5190	18.13	16.59	20.44	24	Pass
CH46	5230	18.81	16.84	20.95	24	Pass
CH 54	5270	19.65	18.11	21.96	24	Pass
CH 62	5310	18.84	17.23	21.12	24	Pass
CH 102	5510	18.81	17.82	21.35	24	Pass
CH 110	5550	19.38	16.90	21.32	24	Pass
CH 134	5670	19.21	17.92	21.62	24	Pass
CH151	5755	18.85	16.83	20.38	30	Pass
CH159	5795	18.05	16.41	20.32	30	Pass

CH. No.	Frequency	Conducted Average Power(dBm)		total power (dBm)	Limit (dBm)	Result
		ANT A	ANT B			
TX 802.11 ac(VHT20) Mode						
CH 36	5180	19.12	16.45	21.00	24	Pass
CH 40	5200	18.96	17.70	21.39	24	Pass
CH 48	5240	18.91	17.70	21.36	24	Pass
CH 52	5260	19.05	18.07	21.60	24	Pass
CH 56	5280	18.76	16.97	20.97	24	Pass
CH 64	5320	19.43	17.57	21.61	24	Pass
CH 100	5500	19.46	17.44	21.58	24	Pass
CH 120	5600	18.81	17.90	21.39	24	Pass
CH 140	5700	19.07	17.62	21.42	24	Pass
CH 149	5745	18.88	17.84	21.40	30	Pass
CH 157	5785	18.82	17.16	20.51	30	Pass
CH 165	5825	18.57	16.78	20.20	30	Pass
TX 802.11 ac(VHT40) Mode						
CH38	5190	17.20	16.07	19.68	24	Pass
CH46	5230	17.77	16.85	20.34	24	Pass
CH 54	5270	16.57	16.56	19.58	24	Pass
CH 62	5310	16.13	16.76	19.47	24	Pass
CH 102	5510	17.47	16.70	20.11	24	Pass
CH 110	5550	17.38	16.25	19.86	24	Pass
CH 134	5670	17.23	16.38	19.84	24	Pass
CH 151	5755	17.04	16.95	20.01	30	Pass
CH 159	5795	17.03	16.26	19.67	30	Pass
TX 802.11 ac(VHT80) Mode						
CH42	5210	14.19	13.58	16.91	24	Pass
CH 58	5290	14.99	13.40	17.28	24	Pass
CH 106	5530	14.90	13.17	17.13	24	Pass
CH 138	5690	14.72	13.34	17.09	24	Pass
CH155	5775	14.36	13.90	17.15	30	Pass

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

8 POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart E (15.407)&RSS-247			
Section	Test Item	Limit	Frequency Range (MHz)
RSS-247 6.2.1.2	EIRP Power Spectral Density	10dBm/MHz	5150-5250
15.407(a)	Power Spectral Density	AP device:17dBm/MHz Client device:11dBm/MHz	5150-5250
15.407(a) RSS-247 6.2.4.2	Power Spectral Density	30dBm/500kHz	5725-5850

8.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.
- EIRP Power Spectral Density = Power Spectral Density+Antenna Gain
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=1.2dBi+1.2dBi=4.21dBi

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/23	2023/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A	N/A

8.4 TEST SETUP



8.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

ANT 1(2) Represent the value of antenna 1 and 2, The worst data is 1 Antenna a ,only shown Antenna 1 Plot.

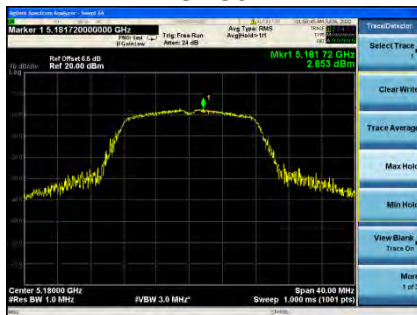
UNII-1_TX A Mode_Ant 1 For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	2.853	0.00	2.853	11.00	PASS
40	5200	3.376	0.00	3.376	11.00	PASS
48	5240	4.304	0.00	4.304	11.00	PASS

UNII-1_TX A Mode_Ant 1 For IC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	EIRP Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	4.053	0.00	4.053	10.00	PASS
40	5200	4.576	0.00	4.576	10.00	PASS
48	5240	5.504	0.00	5.504	10.00	PASS

CH36



CH40



CH48



UNII-1_TX A Mode_Ant2 For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	2.024	0.00	2.024	11.00	PASS
40	5200	2.745	0.00	2.745	11.00	PASS
48	5240	3.071	0.00	3.071	11.00	PASS

UNII-1_TX A Mode_Ant2 For IC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	EIRP Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	3.224	0.00	3.224	10.00	PASS
40	5200	3.945	0.00	3.945	10.00	PASS
48	5240	4.271	0.00	4.271	10.00	PASS

UNII-2A_TX A Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	0.853	0.00	0.853	11.00	PASS
60	5300	-0.043	0.00	-0.043	11.00	PASS
64	5320	-0.816	0.00	-0.816	11.00	PASS

CH52



CH60



CH64



UNII-2A_TX A Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	-0.257	0.00	-0.257	11.00	PASS
60	5300	-1.126	0.00	-1.126	11.00	PASS
64	5320	-1.662	0.00	-1.662	11.00	PASS

UNII-2C_TX A Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	-2.451	0.00	-2.451	11.00	PASS
120	5600	0.828	0.00	0.828	11.00	PASS
140	5700	1.201	0.00	1.201	11.00	PASS

CH100



CH120



CH140



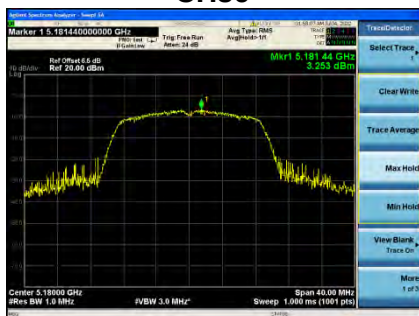
UNII-2C_TX A Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	-3.157	0.00	-3.157	11.00	PASS
120	5600	-0.847	0.00	-0.847	11.00	PASS
140	5700	-1.009	0.00	-1.009	11.00	PASS

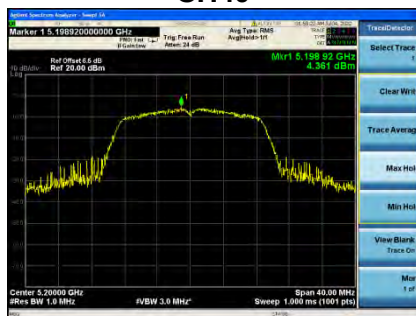
UNII-1_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	3.253	0.00	3.253	11.00	PASS
40	5200	4.361	0.00	4.361	11.00	PASS
48	5240	4.592	0.00	4.592	11.00	PASS

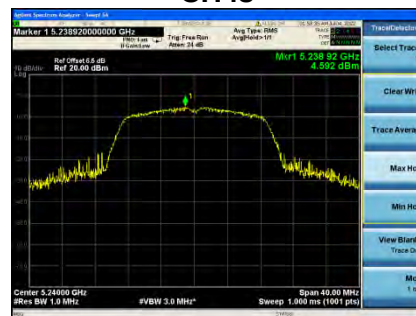
CH36



CH40



CH48



UNII-1_TX N (HT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	-0.714	0.00	1.057	11.00	PASS
40	5200	-1.335	0.00	0.587	11.00	PASS
48	5240	-1.224	0.00	1.475	11.00	PASS

UNII-1_TX N (HT20) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	4.72	11.00	PASS
40	5200	5.40	11.00	PASS
48	5240	5.60	11.00	PASS

UNII-1_TX N (HT20) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.93	10.00	PASS
40	5200	9.61	10.00	PASS
48	5240	9.81	10.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-2A_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	1.274	0.00	1.274	11.00	PASS
60	5300	-0.094	0.00	-0.094	11.00	PASS
64	5320	-0.571	0.00	-0.571	11.00	PASS

CH52



CH60



CH64



UNII-2A_TX N (HT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	-0.147	0.00	-0.147	11.00	PASS
60	5300	-1.229	0.00	-1.229	11.00	PASS
64	5320	-1.156	0.00	-1.156	11.00	PASS

UNII-2A_TX N (HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	3.63	11.00	PASS
60	5300	2.39	11.00	PASS
64	5320	2.16	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-2C_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	-1.652	0.00	-1.652	11.00	PASS
120	5600	0.522	0.00	0.522	11.00	PASS
140	5700	1.535	0.00	1.535	11.00	PASS

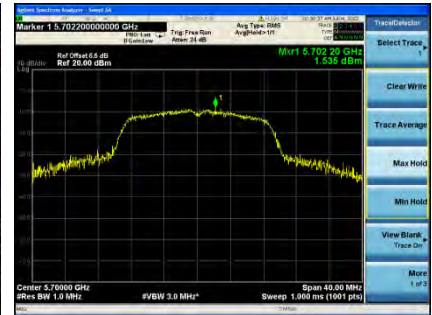
CH100



CH120



CH140



UNII-2C_TX N (HT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	-2.635	0.00	4.95	11.00	PASS
120	5600	-1.005	0.00	3.09	11.00	PASS
140	5700	0.736	0.00	0.83	11.00	PASS

UNII-2C_TX N (HT20) Mode_Total

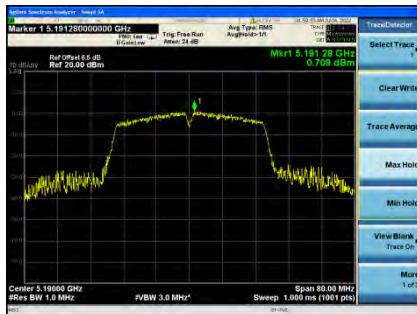
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	0.89	11.00	PASS
120	5600	2.84	11.00	PASS
140	5700	4.16	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-1_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	0.709	0.00	0.709	11.00	PASS
46	5230	1.840	0.00	1.840	11.00	PASS

CH38



CH46



UNII-1_TX N (HT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-0.225	0.00	-5.841	11.00	PASS
46	5230	0.687	0.00	-5.663	11.00	PASS

UNII-1_TX N (HT40) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	3.28	11.00	PASS
46	5230	4.31	11.00	PASS

UNII-1_TX N (HT40) Mode_Total For IC

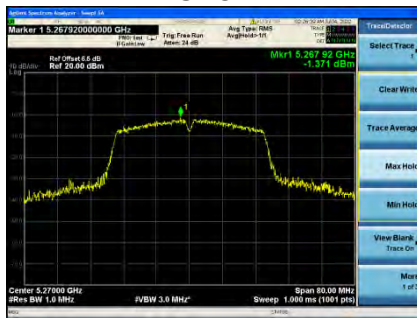
Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	7.49	10.00	PASS
46	5230	8.52	10.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-2A_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-1.371	0.00	-1.371	11.00	PASS
62	5310	-3.433	0.00	-3.433	11.00	PASS

CH54



CH62



UNII-2A_TX N (HT40) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-2.663	0.00	-2.663	11.00	PASS
62	5310	-3.987	0.00	-3.987	11.00	PASS

UNII-2A_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	1.04	11.00	PASS
62	5310	-0.69	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-2C_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-5.607	0.00	-5.607	11.00	PASS
118	5590	-1.437	0.00	-1.437	11.00	PASS
134	5670	-0.407	0.00	-0.407	11.00	PASS

CH102



CH118



CH134



UNII-2C_TX N (HT40) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-6.741	0.00	-6.741	11.00	PASS
118	5590	-2.448	0.00	-2.448	11.00	PASS
134	5670	-1.578	0.00	-1.578	11.00	PASS

UNII-2C_TX N (HT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-3.13	11.00	PASS
118	5590	1.10	11.00	PASS
134	5670	2.06	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-3_TX A Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-1.652	0.00	-1.652	30.00	PASS
157	5785	-2.819	0.00	-2.819	30.00	PASS
165	5825	-3.529	0.00	-3.529	30.00	PASS

CH149



CH157



CH165



UNII-3_TX A Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-2.774	0.00	-2.774	30.00	PASS
157	5785	-2.962	0.00	-2.962	30.00	PASS
165	5825	-4.258	0.00	-4.258	30.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-3_TX N (HT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-1.704	0.00	-1.704	30.00	PASS
157	5785	-3.585	0.00	-3.585	30.00	PASS
165	5825	-2.546	0.00	-2.546	30.00	PASS

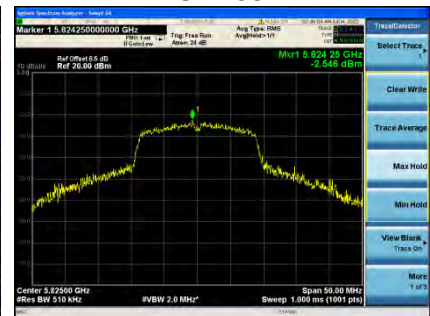
CH149



CH157



CH165



UNII-3_TX N (HT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-2.051	0.00	-2.051	30.00	PASS
157	5785	-4.663	0.00	-4.663	30.00	PASS
165	5825	-3.789	0.00	-3.789	30.00	PASS

UNII-3_TX N (HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	1.14	30.00	PASS
157	5785	-1.08	30.00	PASS
165	5825	-0.11	30.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-3_TX N (HT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-4.967	0.00	-4.967	30.00	PASS
159	5795	-5.376	0.00	-5.376	30.00	PASS

CH151



CH159



UNII-3_TX N (HT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-5.336	0.00	-2.52	30.00	PASS
159	5795	-6.023	0.00	-1.55	30.00	PASS

UNII-3_TX N (HT40) Mode_Total

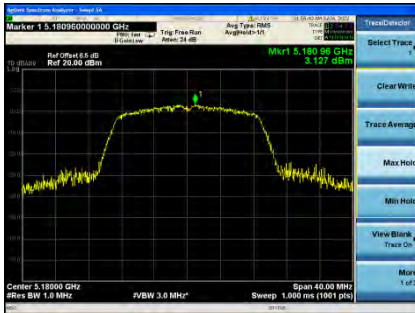
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-2.14	30.00	PASS
159	5795	-2.68	30.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-1_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	3.127	0.00	3.127	11.00	PASS
40	5200	3.676	0.00	3.676	11.00	PASS
48	5240	4.588	0.00	4.588	11.00	PASS

CH36



CH40



CH48



UNII-1_TX AC (VHT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	-0.568	0.00	-0.05	11.00	PASS
40	5200	-1.258	0.00	-0.48	11.00	PASS
48	5240	-0.748	0.00	-1.27	11.00	PASS

UNII-1_TX AC (VHT20) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	4.67	11.00	PASS
40	5200	4.89	11.00	PASS
48	5240	5.70	11.00	PASS

UNII-1_TX AC (VHT20) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.88	10.00	PASS
40	5200	9.10	10.00	PASS
48	5240	9.91	10.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-2A_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	1.264	0.00	1.264	11.00	PASS
60	5300	0.399	0.00	0.399	11.00	PASS
64	5320	-0.379	0.00	-0.379	11.00	PASS

CH52



CH60



CH64



UNII-2A_TX AC (VHT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	-1.087	0.00	-1.087	11.00	PASS
60	5300	-0.669	0.00	-0.669	11.00	PASS
64	5320	-1.957	0.00	-1.957	11.00	PASS

UNII-2A_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	3.26	11.00	PASS
60	5300	2.91	11.00	PASS
64	5320	1.91	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

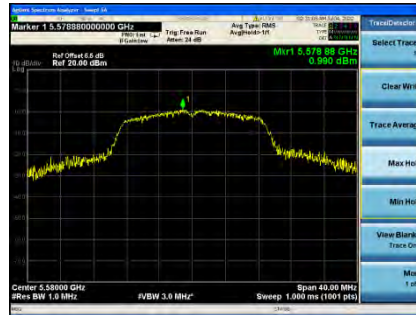
UNII-2C_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	-1.733	0.00	-1.733	11.00	PASS
120	5600	0.990	0.00	0.990	11.00	PASS
140	5700	1.050	0.00	1.050	11.00	PASS

CH100



CH120



CH140



UNII-2C_TX AC (VHT20) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	-2.035	0.00	-2.035	11.00	PASS
120	5600	-1.574	0.00	-1.574	11.00	PASS
140	5700	-0.559	0.00	-0.559	11.00	PASS

UNII-2C_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	1.13	11.00	PASS
120	5600	2.90	11.00	PASS
140	5700	3.33	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

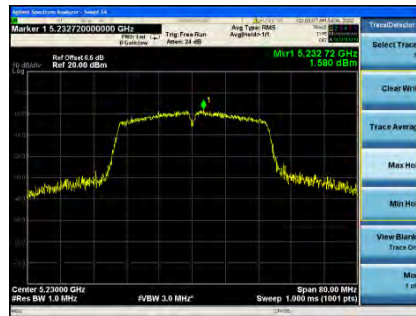
UNII-1_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	0.101	0.00	0.101	11.00	PASS
46	5230	1.580	0.00	1.580	11.00	PASS

CH38



CH46



UNII-1_TX AC (VHT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	-0.814	0.00	-3.50	11.00	PASS
46	5230	0.321	0.00	-3.94	11.00	PASS

UNII-1_TX AC (VHT40) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	2.68	11.00	PASS
46	5230	4.01	11.00	PASS

UNII-1_TX AC (VHT40) Mode_Total For IC

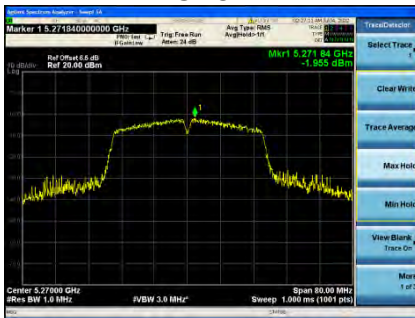
Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	6.89	10.00	PASS
46	5230	8.22	10.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

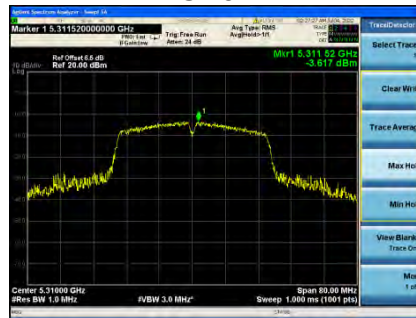
UNII-2A_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-1.955	0.00	-1.955	11.00	PASS
62	5310	-3.617	0.00	-3.617	11.00	PASS

CH54



CH62



UNII-2A_TX AC (VHT40) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	-2.789	0.00	-2.789	11.00	PASS
62	5310	-4.258	0.00	-4.258	11.00	PASS

UNII-2A_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	0.66	11.00	PASS
62	5310	-0.92	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-2C_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-4.758	0.00	-4.758	11.00	PASS
118	5590	-1.835	0.00	-1.835	11.00	PASS
134	5670	-1.017	0.00	-1.017	11.00	PASS

CH102



CH118



CH134



UNII-2C_TX AC (VHT40) Mode_Ant 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-5.728	0.00	-5.728	11.00	PASS
118	5590	-3.041	0.00	-3.041	11.00	PASS
134	5670	-2.335	0.00	-2.335	11.00	PASS

UNII-2C_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-2.21	11.00	PASS
118	5590	0.61	11.00	PASS
134	5670	1.38	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-1_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-1.317	0.00	-1.317	11.00	PASS

CH42



UNII-1_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-2.598	0.00	-6.55	11.00	PASS

UNII-1_TX AC (VHT80) Mode_Total For FCC

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	1.10	11.00	PASS

UNII-1_TX AC (VHT80) Mode_Total For IC

Channel	Frequency (MHz)	EIRP Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	5.31	10.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-2A_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290	-5.958	0.00	-5.958	11.00	PASS

CH58



UNII-2A_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290	-6.357	0.00	-7.27	11.00	PASS

UNII-2A_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290	-3.14	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-2C_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
106	5530	-7.623	0.00	-7.623	11.00	PASS

CH106



UNII-2C_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
106	5530	-8.654	0.00	-4.99	11.00	PASS

UNII-2C_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
106	5530	-5.10	11.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-3_TX AC (VHT20) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-2.090	0.00	-2.090	30.00	PASS
157	5785	-2.542	0.00	-2.542	30.00	PASS
165	5825	-2.464	0.00	-2.464	30.00	PASS

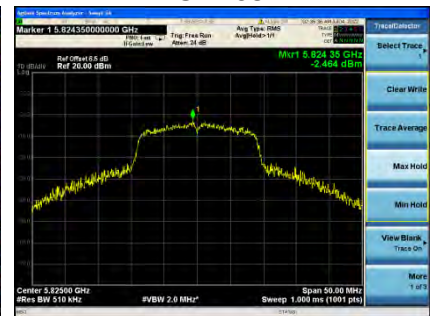
CH149



CH157



CH165



UNII-3_TX AC (VHT20) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-3.665	0.00	-3.665	30.00	PASS
157	5785	-3.085	0.00	-3.085	30.00	PASS
165	5825	-3.747	0.00	-3.747	30.00	PASS

UNII-3_TX AC (VHT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	0.20	30.00	PASS
157	5785	0.21	30.00	PASS
165	5825	-0.05	30.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-3_TX AC (VHT40) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-4.756	0.00	-4.756	30.00	PASS
159	5795	-6.203	0.00	-6.203	30.00	PASS

CH151



CH159



UNII-3_TX AC (VHT40) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-5.774	0.00	-5.774	30.00	PASS
159	5795	-7.052	0.00	-7.052	30.00	PASS

UNII-3_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-1.75	30.00	PASS
159	5795	-3.19	30.00	PASS

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =4.21dBi

UNII-3_TX AC (VHT80) Mode_Ant 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-8.433	0.00	-8.433	30.00	PASS

CH155



UNII-3_TX AC (VHT80) Mode_Ant2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-8.902	0.00	-7.40	30.00	PASS

UNII-3_TX AC (VHT80) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-5.65	30.00	PASS

Note: For MIMO mode: Directional gain= $G_{ANT} + 10\log(N)$ dBi =4.21dBi

9.FREQUENCY STABILITY MEASUREMENT

9.1LIMIT

FCC Part15, Subpart E (15.407)&RSS-GEN			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g) RSS-GEN 6.11	Frequency Stability	Specified in the user's manual	5150-5250
			5725-5850

9.2TEST PROCEDURE AND SETTING

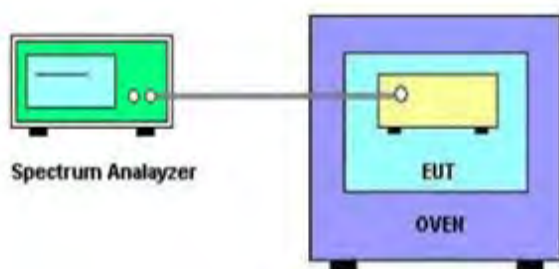
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulationemissionsbandwidth
RBW	10 kHz
VBW	10kHz
Sweep Time	Auto

9.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/23	2023/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A	N/A
4	Temperature conditioning	Guan Jian.HTH1000	-20-130℃	GJ1000-10D001	N/A	N/A
5	DC Power Supply	G.KE	IPR-10010D	010931954	N/A	N/A

9.4TEST SETUP



9.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Temperature vs. Frequency Stability-UNII-1		
Voltage	Temperature	Measurement Frequency (MHz)
5.0V	(°C)	5180
	-20	5180.0027
	25	5180.0021
	50	5180.0016
3.7V	25	5180.0025
Max. Deviation (MHz)		0.0027
Max. Deviation (ppm)		0.52

Temperature vs. Frequency Stability-UNII-2A		
Voltage	Temperature	Measurement Frequency (MHz)
5.0V	(°C)	5260
	-20	5260.0023
	25	5260.0019
	50	5260.0022
3.7V	25	5260.0021
Max. Deviation (MHz)		0.0023
Max. Deviation (ppm)		0.44

Temperature vs. Frequency Stability-UNII-2C		
Voltage	Temperature	Measurement Frequency (MHz)
5.0V	(°C)	5500
	-20	5500.0035
	25	5500.0027
	50	5500.0021
3.7V	25	5500.0012
Max. Deviation (MHz)		0.0035
Max. Deviation (ppm)		0.64

Temperature vs. Frequency Stability-UNII-3		
Voltage	Temperature	Measurement Frequency (MHz)
5.0V	(°C)	5745
	-20	5745.0032
	25	5745.0014
	50	5745.0024
3.7V	25	5745.0025
Max. Deviation (MHz)		0.0032
Max. Deviation (ppm)		0.56

Note: 3.7V is the end point voltage, and products below 3.7V will cease working.

10. DYNAMIC FREQUENCY SELECTION (DFS)

10.1 APPLICABILITY OF DFS REQUIREMENTS

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

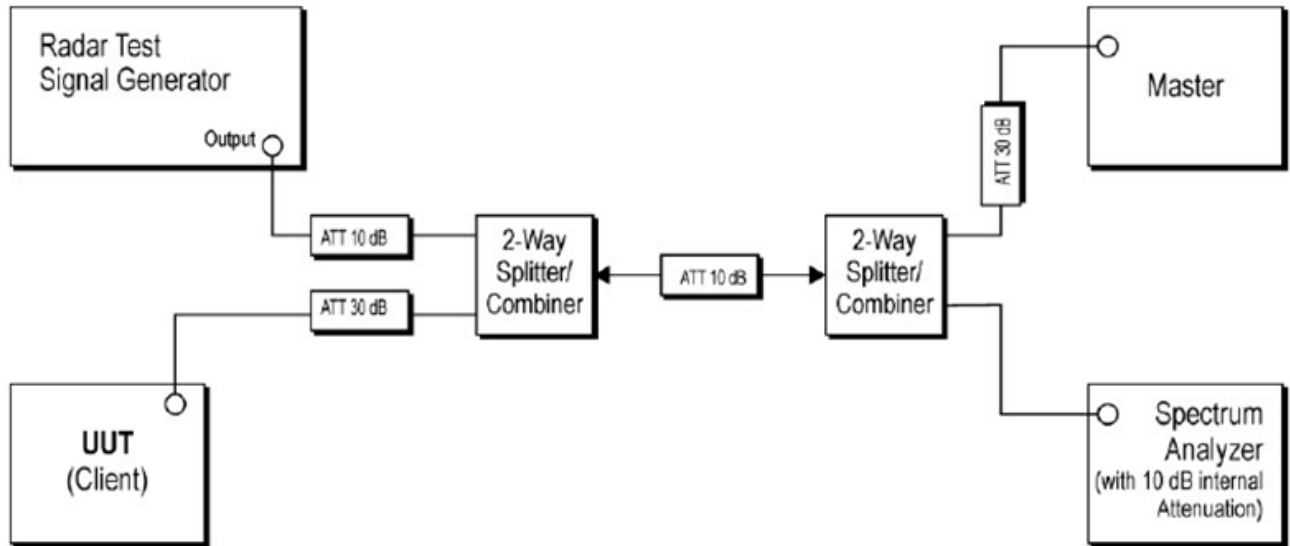
Requirement	Operational Mode		
	☐ Master	☒ Client Without Radar Detection	☐ Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	☒ Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	☒ Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel centerfrequency.		

10.2 TEST SET-UP



10.3 LIMITS

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value(See Notes 1, 2, and 3)
$EIRP \geq 200$ milliwatt	-64 dBm
$EIRP < 200$ milliwatt and power spectral density $< 10\text{dBm/MHz}$	-62 dBm
$EIRP < 200$ milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1

10.4 TEST PROCEDURE

1. When a Client Device without Radar Detection is the UUT, the Master Device is the Radar Detection Device.
2. A spectrum analyzer is used to establish the test signal level for each radar type.
3. During this process, there are no transmissions by either the Master Device or Client Device.
4. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) are set to at least 3MHz.
5. The measured channels are 5530MHz in 80MHz Bandwidth and 5290MHz in 80MHz Bandwidth.

The Radar signal was the same as transmitted channels, and injected into the antenna port of

AP(master) , measured the DFS parameters. The master transmitted the test data to client, the

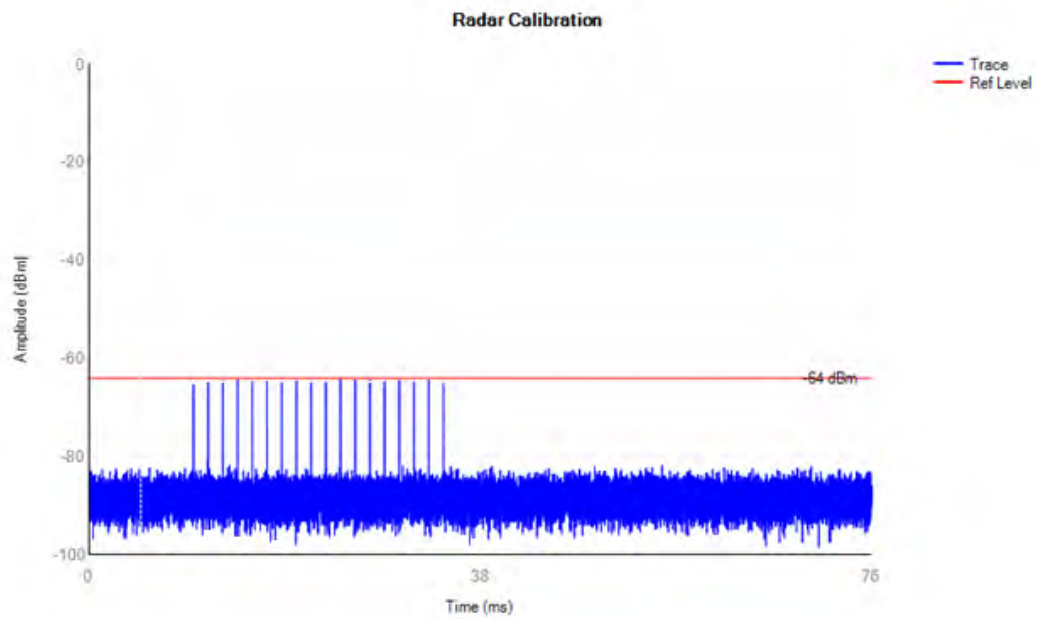
transmitted duty cycle is 30.8%.

10.5 TEST INSTRUMENTS

DESCRIPTION	MANUFACTURER	MODEL NO.	Serial No/FCC ID/IC	Calibration Until
Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	05/24/2023
Signal Generator	KEYSIGHT	N5182B	MY53052051	05/24/2023
POWER SPLITTER	Mini-Circuits	ZN3PD-622W-S+	N/A	N/A
POWER SPLITTER	Mini-Circuits	ZN3PD-622W-S+	N/A	N/A
Attenuator	MCL	BW-N20W5+	N/A	N/A
AP	Wavlink	WN575A3	FCC ID: MSQ-RTAXJ300 IC: 3568A-RTAXJ300	N/A

10.6 TEST RESULT

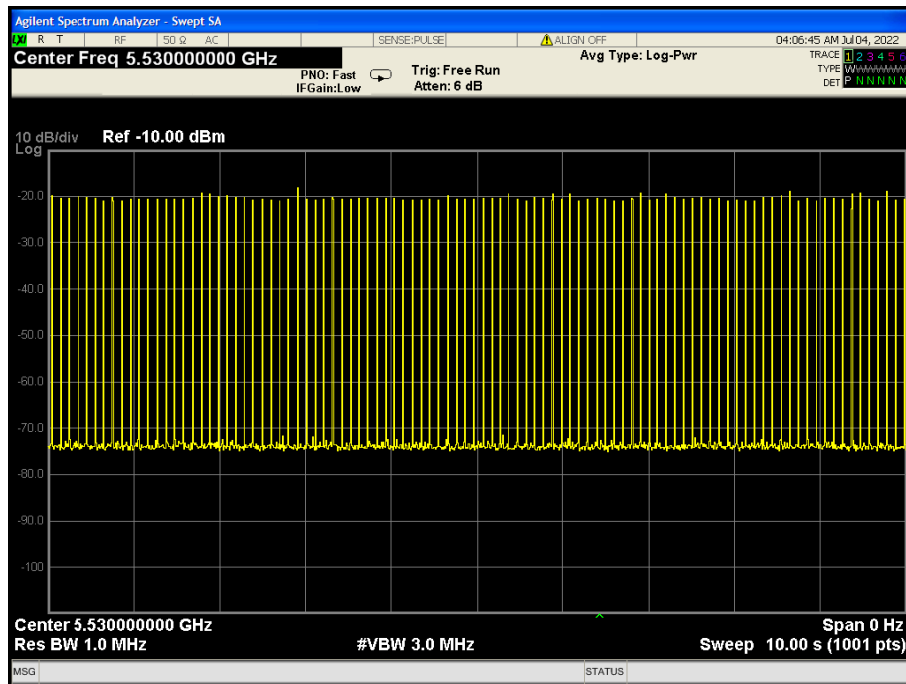
Radar Type 0



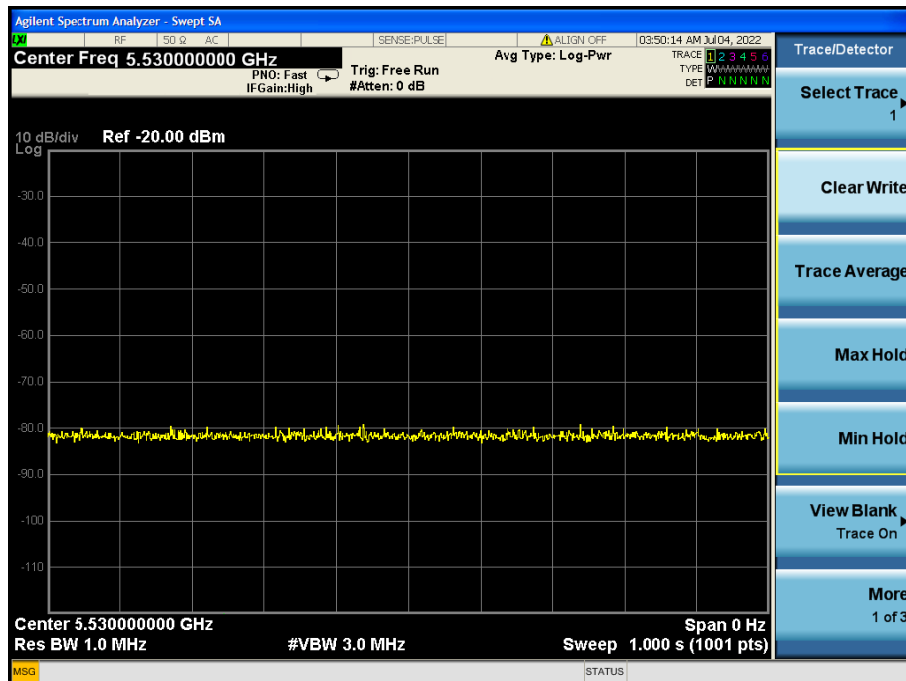
Note: The report only displays Radar Type 0.

10.6 TEST RESULT

Data Traffic Plot



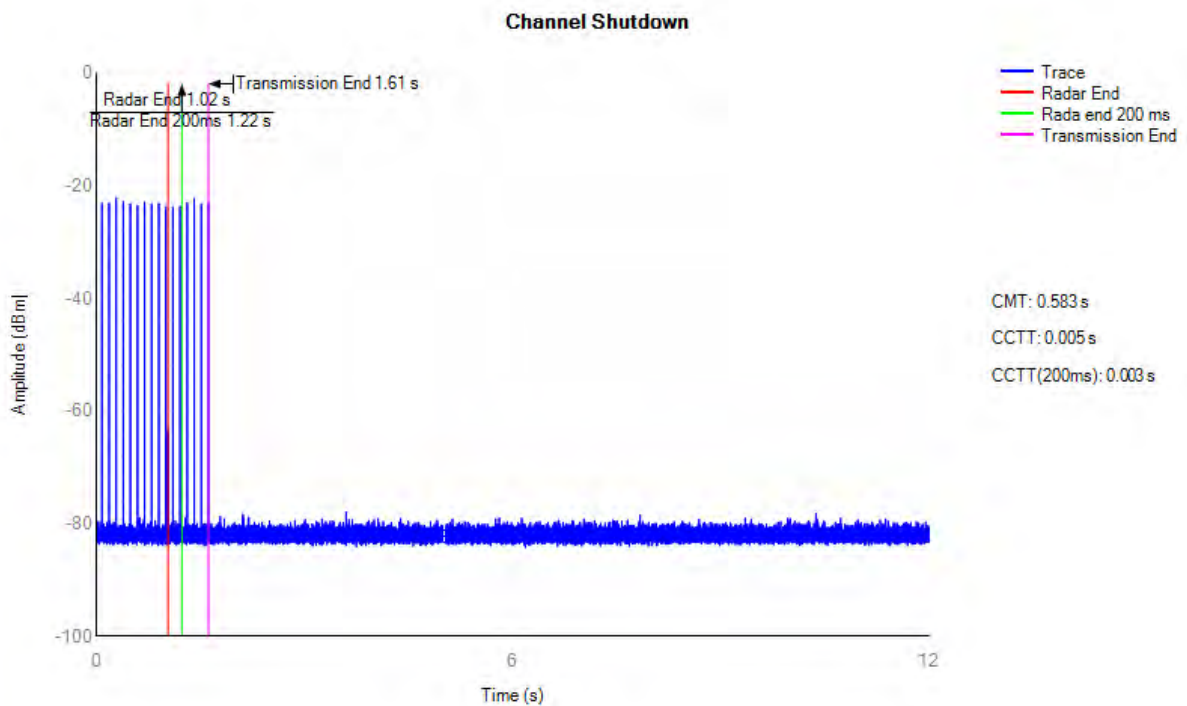
Noise Floor (No transmission)



Channel Move Time and Channel Closing Transmission Time

Test Frequency	Requirement	Measurement Level	Limit
5530MHz	Channel Closing Transmission Time	0.005s	≤ 10 s
	Channel Move Time	0.583s	≤ 0.2 6 s

Radar Type 0(ac80MHz/5530MHz) Channel Shutdown



END OF TEST REPORT