



# FCC RADIO TEST REPORT

Applicant : Ubiquiti Inc.  
Address : 685 Third Avenue, New York, New York 10017 USA  
Equipment : Mesh Points  
Model No. : AFi-P-HD, AFi-P-G  
Trade Name : UBIQUITI  
FCC ID. : SWX-AFPHDP

**I HEREBY CERTIFY THAT :**

The sample was received on Jun. 28, 2019 and the testing was completed on Aug. 27, 2019 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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# 1. Summary of Test Procedure and Test Results

## 1.1. Applicable Standards

**ANSI C63.4:2014**

**ANSI C63.10:2013**

**FCC Rules and Regulations Part 15 Subpart E §15.407**

**KDB789033**

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	PASS
15.207(a)	AC Power Line Conducted Emission	PASS
15.407(b) 15.209	Radiated Spurious Emission	PASS
15.407(a)	26 dB & Occupied Bandwidth	PASS
15.407	6 dB Bandwidth	PASS
15.407 (a) & (a)(3)	Average Power	PASS
15.407(a)	Power Spectral Density	PASS
15.407(g)	Frequency Stability	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
2.1091	Radio Frequency Exposure	PASS

\*The lab has lowered the uncertainty risk of test equipment, environment, and staff technicians according to ISO-IEC17025. Therefore we define test result as compliant when it complies with the standard without further evaluation of test result uncertainty.

\*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD1906240).



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment under Test

Frequency Range	802.11b/g/n: 2400-2483.5MHz 802.11a/n/ac: 5150-5250MHz, 5725-5850MHz
Modulation Type	802.11b: CCK, DQPSK, DBPSK 802.11g/n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM
Data Rate	WLAN: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS23, HT20/40 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	Internal Antenna
Antenna Gain	2400-2483.5MHz: ANT A / B / C: 5dBi 5150-5250MHz: ANT A / B / C: 5dBi 5725-5850MHz: ANT A / B / C: 5dBi
Firmware Number	v3.3.0

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Difference description

Model No.	Remark
AFi-P-HD	The differences between these two model numbers is housing color.
AFi-P-G	



## 2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*36</b>	<b>5180</b>	<b>*44</b>	<b>5220</b>
40	5200	<b>*48</b>	<b>5240</b>

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*38</b>	<b>5190</b>	<b>*46</b>	<b>5230</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*42</b>	<b>5210</b>

Band: 5725MHz -5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*149</b>	<b>5745</b>	161	5805
153	5765	<b>*165</b>	<b>5825</b>
<b>*157</b>	<b>5785</b>		

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*151</b>	<b>5755</b>	<b>*159</b>	<b>5795</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*155</b>	<b>5775</b>

Note: Channels remarked \* are selected to perform test.



### 2.3. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- c. An executive program, " Art2 Command" under WIN 7 was executed to transmit and receive data via WLAN.
- d. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ac VHT20 (6.5Mbps)
3	802.11ac VHT40 (13.5Mbps)
4	802.11ac VHT80 (29.3Mbps)
caused "Test Mode 3" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ac VHT20 (6.5Mbps)
3	802.11ac VHT40 (13.5Mbps)
4	802.11ac VHT80 (29.3Mbps)
caused "Test Mode 3" generated the worst case, they were reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ac VHT20 (6.5Mbps)
3	802.11ac VHT40 (13.5Mbps)
4	802.11ac VHT80 (29.3Mbps)
caused "Test Mode 1~4" generated the worst case, they were reported as the final data.	

### 2.4. Description of Test System

N/A



**2.5. General Information of Test**

Test Site	<b>Cerpass Technology Corporation Test Laboratory</b> Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Finish Date	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2019/08/16	22°C / 62%	Vic Yeh
Radiated Emissions	3M02-NK	2019/08/22	24°C / 60%	Vic Yeh
AC Power Line Conducted Emission	CON01-NK	2019/08/27	22°C / 60%	Leon Huang



### 2.6. Measurement Uncertainty

Measurement Item	Uncertainty
Radiated Spurious Emission(9KHz~30MHz)	±3.405dB
Radiated Spurious Emission(30MHz~1GHz)	±5.326dB
Radiated Spurious Emission(1GHz~40GHz)	±5.011dB
6dB Bandwidth	±4.407%
26dB Bandwidth	±4.459%
Occupied Bandwidth	±4.403%
Peak Output Power(Conducted Power Meter)	±1.31dB
Power Spectral Density	±2.106dB
Duty Cycle	±0.17%
Frequency Stability	±156.543Hz
Temperature	±1.2°C
Humidity	±2.7%



### 3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2018/09/17	2019/09/16
Active Loop Antenna	EMCO	6507	40855	2019/05/24	2020/05/23
Horn Antenna	EMCO	3115	31589	2019/04/01	2020/03/31
Horn Antenna	EMCO	3116	31974	2018/09/07	2019/09/06
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2019/05/14	2020/05/13
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27
Preamplifier	EM Electronics corp.	EM330	60660	2019/03/11	2020/03/10
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2018/09/18	2019/09/17
Preamplifier	Agilent	8449B	3008A01954	2019/03/11	2020/03/10
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2018/09/12	2019/09/11
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805443/4	2019/05/20	2020/05/19
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805796/4	2019/05/20	2020/05/19
Cable-8m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805795/4	2019/05/20	2020/05/19
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Attenuator	KEYSIGHT	8491B	MY39250705	2018/09/04	2019/09/03
TEMP & HUMIDITY CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2018/08/30	2019/08/29
Power Sensor	Anritsu	MA2411B	1207295	2019/04/09	2020/04/08

Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	100443	2019/03/29	2020/03/28
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2019/03/15	2020/03/14
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2019/03/12	2020/03/11
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2019/03/14	2020/03/13
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



### 4. Antenna Requirements

#### 4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 4.2. Antenna Construction and Directional Gain

Antenna Type	Internal Antenna
Antenna Gain	2412-2462MHz: ANT A / B / C : 5dBi 5150MHz -5250MHz: ANT A / B / C : 5dBi 5725MHz -5850MHz: ANT A / B / C : 5dBi

2412-2462MHz

For Power directional gain=  $G_{ant}= 5 \text{ dBi}$

$$\text{For PSD directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 9.77 \text{ (dBi)}$$

5150MHz -5250MHz

For Power directional gain=  $G_{ant}= 5 \text{ dBi}$

$$\text{For PSD directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 9.77 \text{ (dBi)}$$

5725MHz -5850MHz

For Power directional gain=  $G_{ant}= 5 \text{ dBi}$

$$\text{For PSD directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 9.77 \text{ (dBi)}$$



## 5. Test of AC Power Line Conducted Emission

### 5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

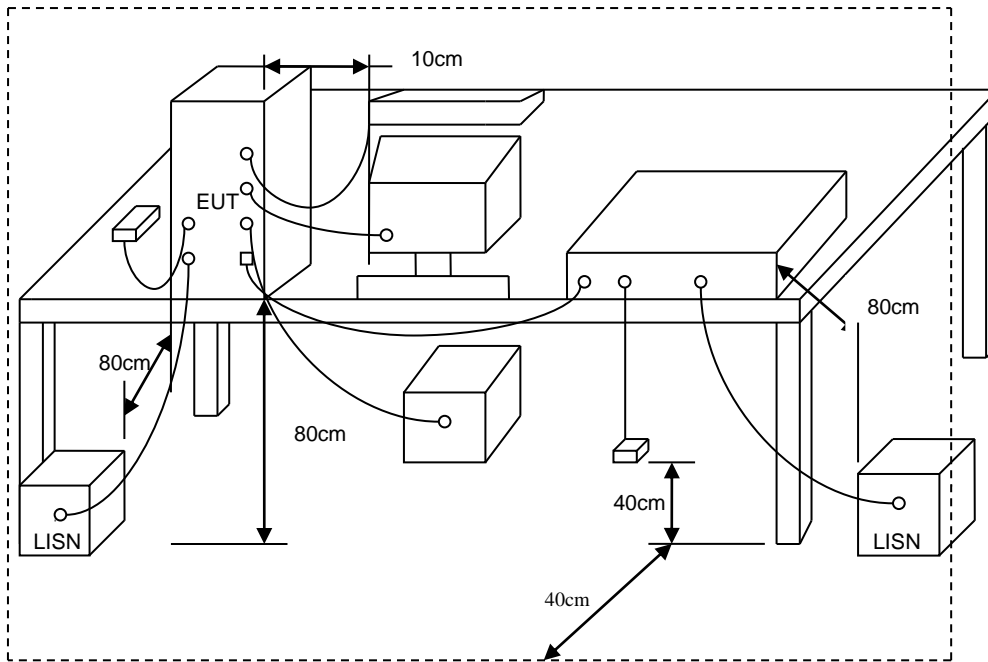
\*Decreases with the logarithm of the frequency.

### 5.2. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



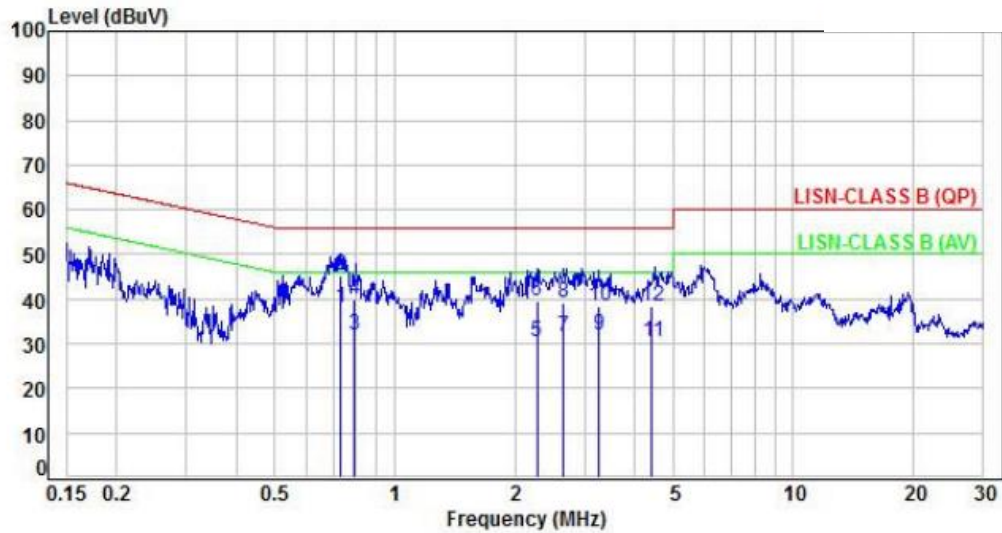
### 5.3. Typical Test Setup





5.4. Test Result and Data

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 3, Band1		:

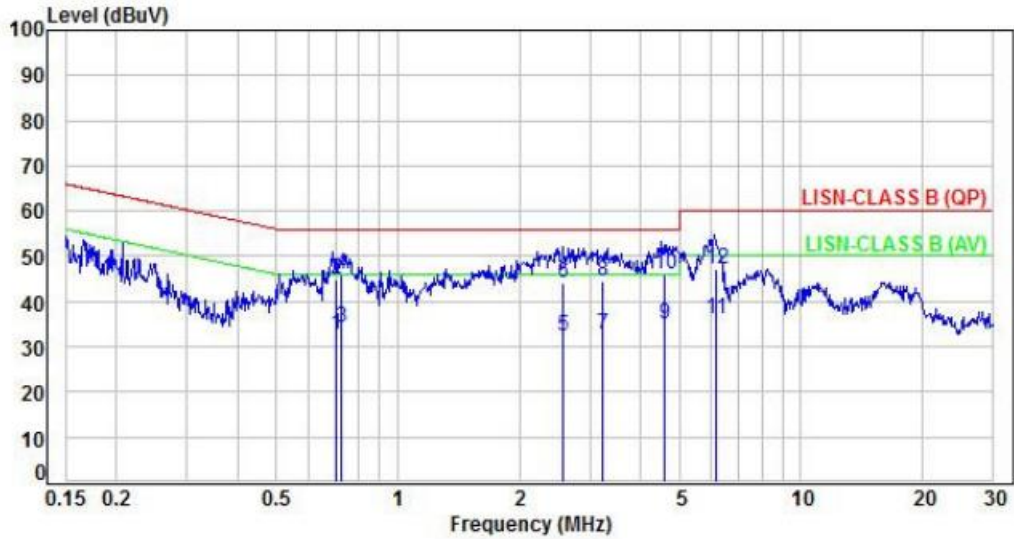


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.73	9.91	28.27	38.18	46.00	-7.82	Average	P
2	0.73	9.91	35.41	45.32	56.00	-10.68	QP	P
3	0.79	9.91	21.92	31.83	46.00	-14.17	Average	P
4	0.79	9.91	30.14	40.05	56.00	-15.95	QP	P
5	2.27	9.97	20.39	30.36	46.00	-15.64	Average	P
6	2.27	9.97	29.66	39.63	56.00	-16.37	QP	P
7	2.65	9.98	21.48	31.46	46.00	-14.54	Average	P
8	2.65	9.98	29.32	39.30	56.00	-16.70	QP	P
9	3.25	10.01	21.79	31.80	46.00	-14.20	Average	P
10	3.25	10.01	28.45	38.46	56.00	-17.54	QP	P
11	4.43	10.03	20.34	30.37	46.00	-15.63	Average	P
12	4.43	10.03	28.31	38.34	56.00	-17.66	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 3, Band1		



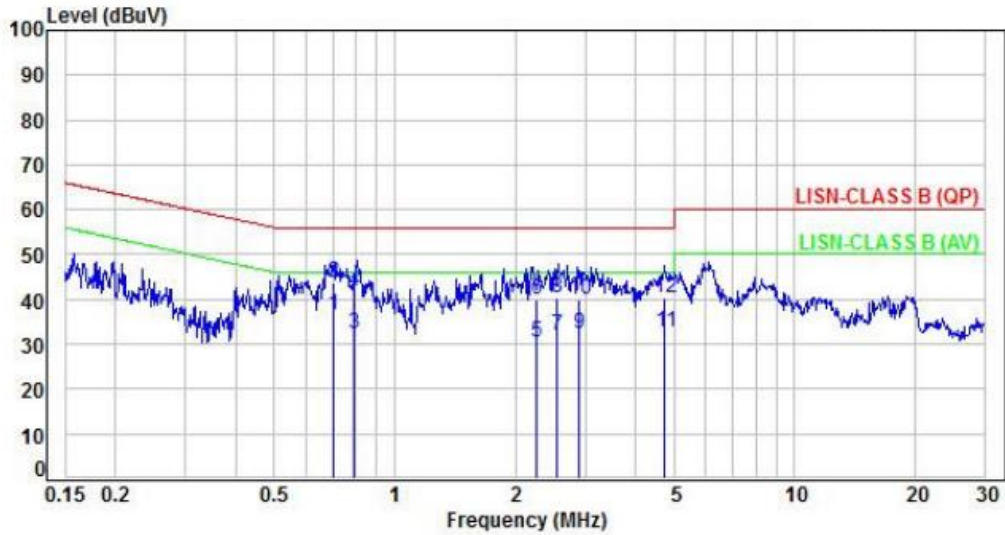
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.70	9.91	22.83	32.74	46.00	-13.26	Average	P
2	0.70	9.91	34.89	44.80	56.00	-11.20	QP	P
3	0.72	9.91	24.30	34.21	46.00	-11.79	Average	P
4	0.72	9.91	36.07	45.98	56.00	-10.02	QP	P
5	2.56	9.98	22.38	32.36	46.00	-13.64	Average	P
6	2.56	9.98	34.22	44.20	56.00	-11.80	QP	P
7	3.21	10.01	22.85	32.86	46.00	-13.14	Average	P
8	3.21	10.01	34.33	44.34	56.00	-11.66	QP	P
9	4.61	10.03	25.12	35.15	46.00	-10.85	Average	P
10	4.61	10.03	35.79	45.82	56.00	-10.18	QP	P
11	6.14	10.06	26.17	36.23	50.00	-13.77	Average	P
12	6.14	10.06	37.15	47.21	60.00	-12.79	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss





Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 3, Band4		:

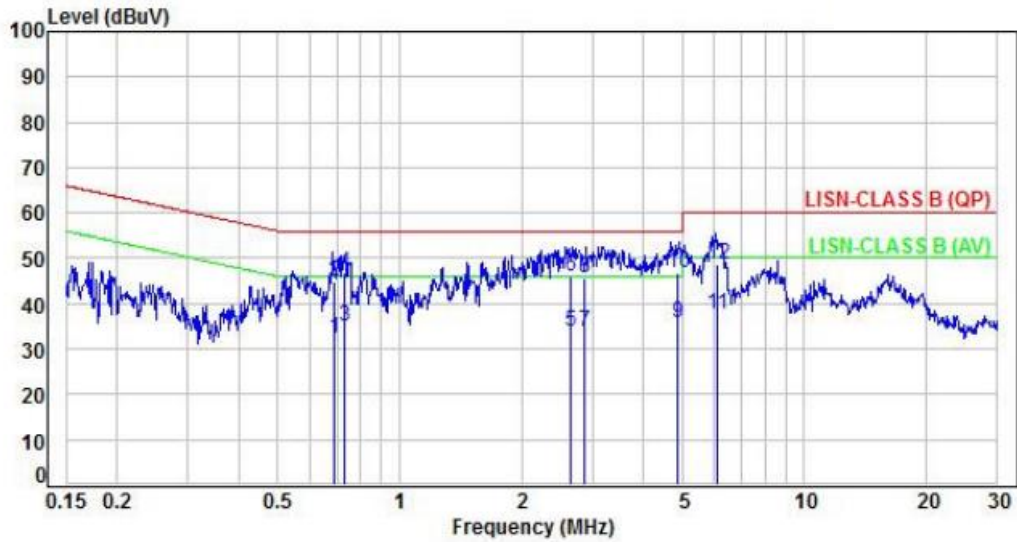


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.70	9.91	26.52	36.43	46.00	-9.57	Average	P
2	0.70	9.91	33.84	43.75	56.00	-12.25	QP	P
3	0.79	9.91	22.52	32.43	46.00	-13.57	Average	P
4	0.79	9.91	32.10	42.01	56.00	-13.99	QP	P
5	2.25	9.97	20.30	30.27	46.00	-15.73	Average	P
6	2.25	9.97	29.94	39.91	56.00	-16.09	QP	P
7	2.54	9.98	21.86	31.84	46.00	-14.16	Average	P
8	2.54	9.98	30.38	40.36	56.00	-15.64	QP	P
9	2.88	10.00	22.25	32.25	46.00	-13.75	Average	P
10	2.88	10.00	29.95	39.95	56.00	-16.05	QP	P
11	4.74	10.04	22.62	32.66	46.00	-13.34	Average	P
12	4.74	10.04	30.11	40.15	56.00	-15.85	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 3, Band4		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.69	9.91	22.41	32.32	46.00	-13.68	Average	P
2	0.69	9.91	34.92	44.83	56.00	-11.17	QP	P
3	0.73	9.91	25.10	35.01	46.00	-10.99	Average	P
4	0.73	9.91	36.93	46.84	56.00	-9.16	QP	P
5	2.63	9.98	23.94	33.92	46.00	-12.08	Average	P
6	2.63	9.98	35.92	45.90	56.00	-10.10	QP	P
7	2.85	10.00	23.97	33.97	46.00	-12.03	Average	P
8	2.85	10.00	35.69	45.69	56.00	-10.31	QP	P
9	4.89	10.04	25.78	35.82	46.00	-10.18	Average	P
10	4.89	10.04	36.72	46.76	56.00	-9.24	QP	P
11	6.08	10.06	27.50	37.56	50.00	-12.44	Average	P
12	6.08	10.06	38.49	48.55	60.00	-11.45	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



## 6. Test of Spurious Emission (Radiated)

### 6.1. Test Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:  
All emissions shall be limited to a level of  $-27$  dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

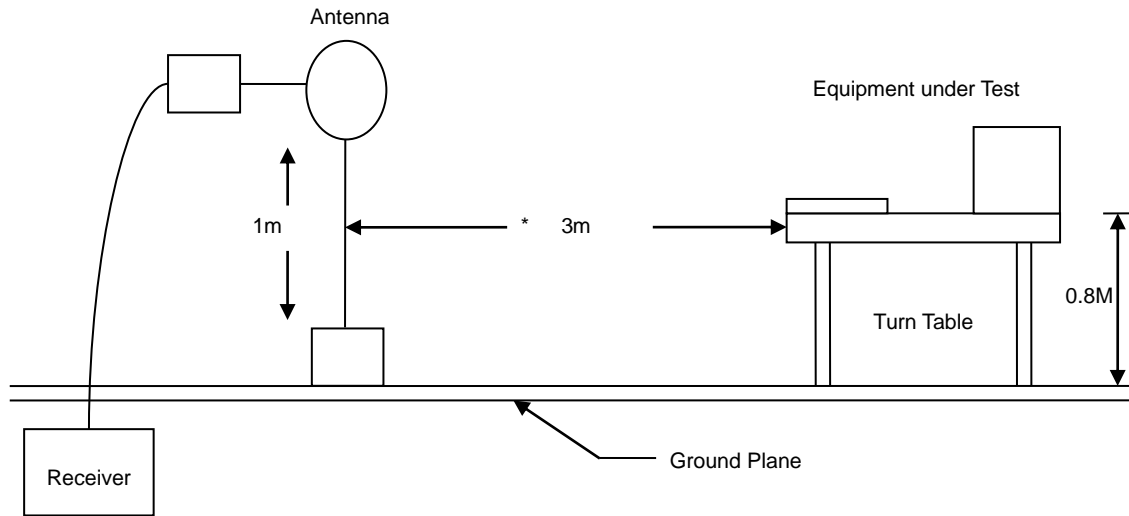
### 6.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

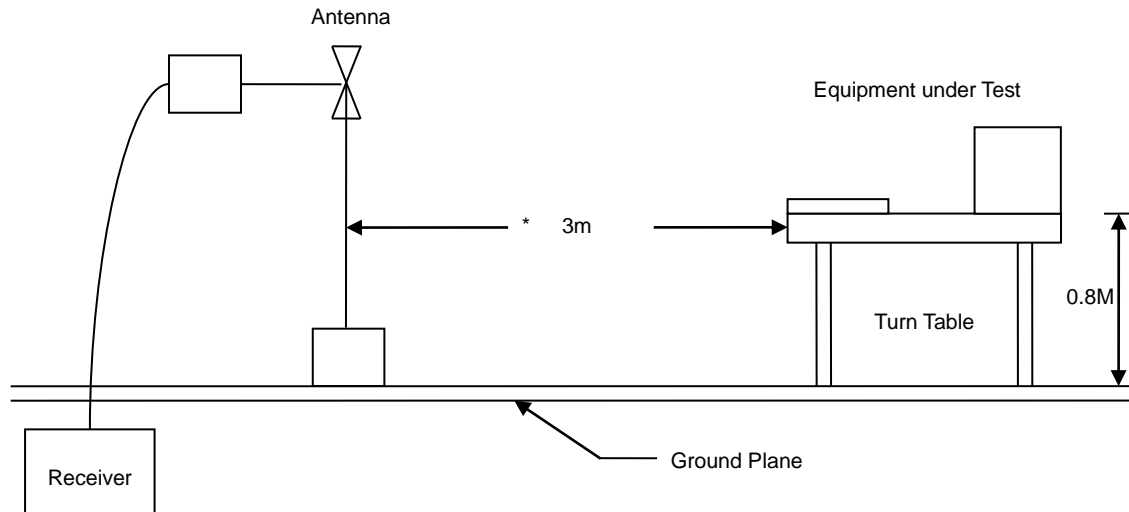


### 6.3. Typical Test Setup

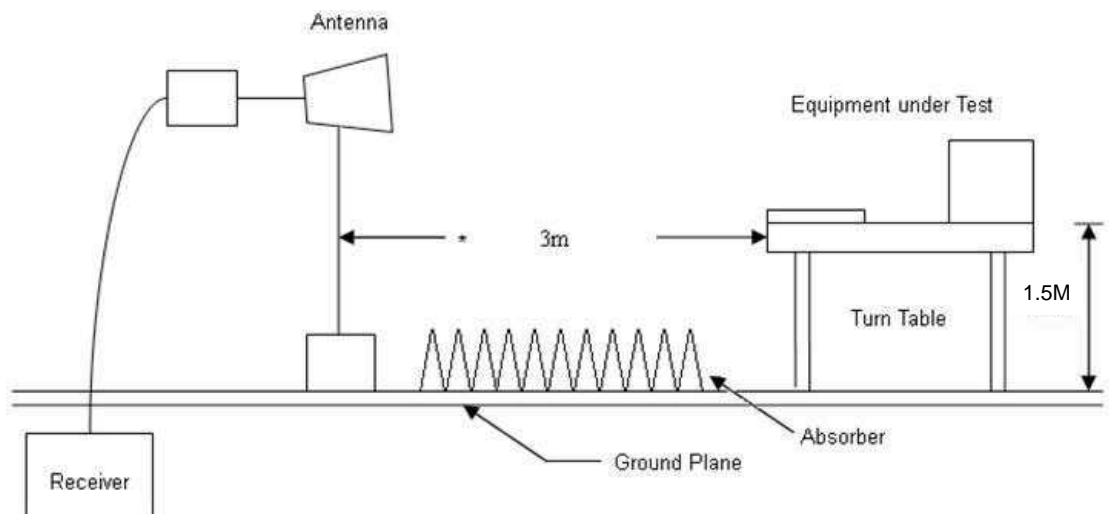
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



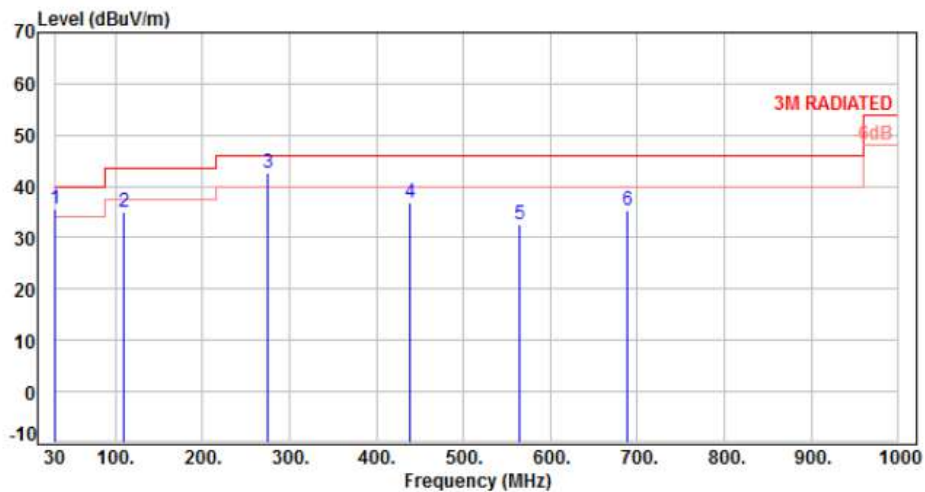


### 6.4. Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

### 6.5. Test Result and Data (30MHz ~ 1GHz)

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 1		:

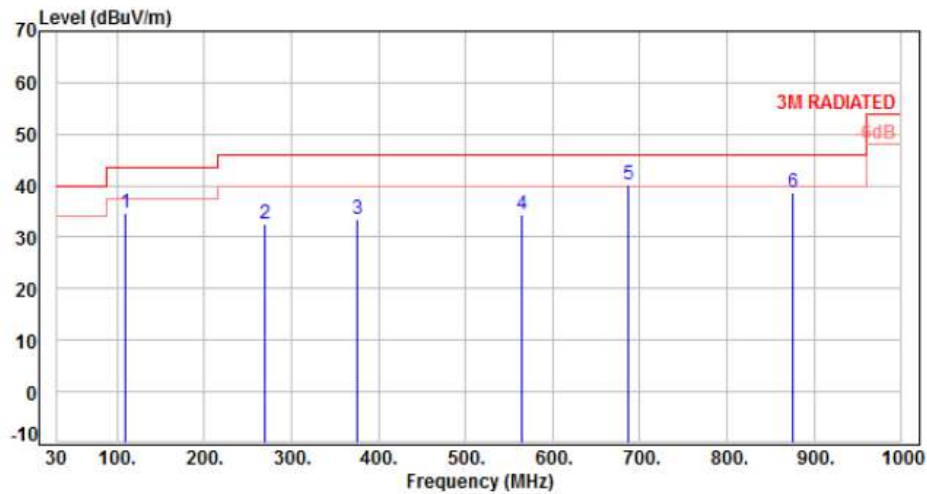


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.29	-10.53	46.15	35.62	40.00	-4.38	Peak	200	0	P
2	110.33	-12.83	47.80	34.97	43.50	-8.53	Peak	200	0	P
3	274.88	-9.37	51.94	42.57	46.00	-3.43	Peak	200	0	P
4	439.15	-5.04	41.87	36.83	46.00	-9.17	Peak	200	0	P
5	563.94	-2.50	35.08	32.58	46.00	-13.42	Peak	200	0	P
6	687.76	-0.27	35.57	35.30	46.00	-10.70	Peak	200	0	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 1		:

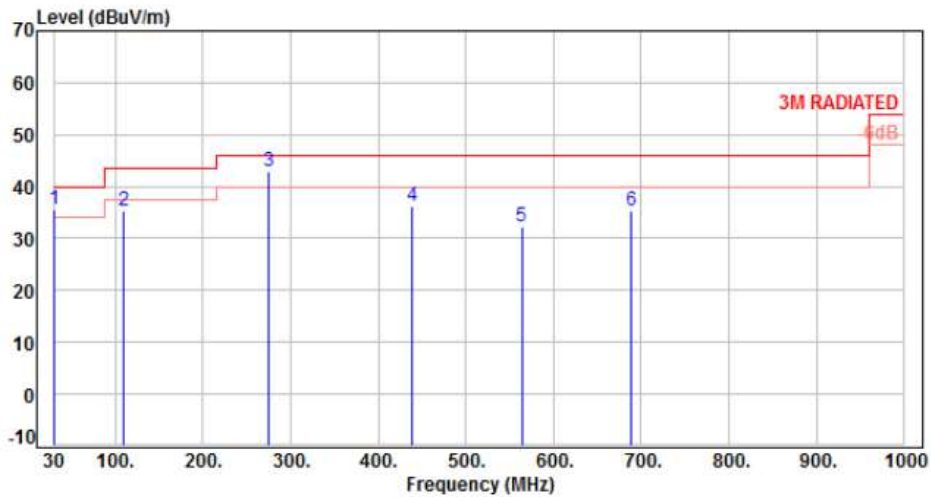


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	109.91	-12.87	47.63	34.76	43.50	-8.74	Peak	100	0	P
2	270.09	-9.60	42.23	32.63	46.00	-13.37	Peak	100	0	P
3	375.68	-6.51	39.88	33.37	46.00	-12.63	Peak	100	0	P
4	563.76	-2.50	37.06	34.56	46.00	-11.44	Peak	100	0	P
5	687.44	-0.28	40.56	40.28	46.00	-5.72	Peak	100	0	P
6	875.37	2.40	36.25	38.65	46.00	-7.35	Peak	100	0	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band4		:

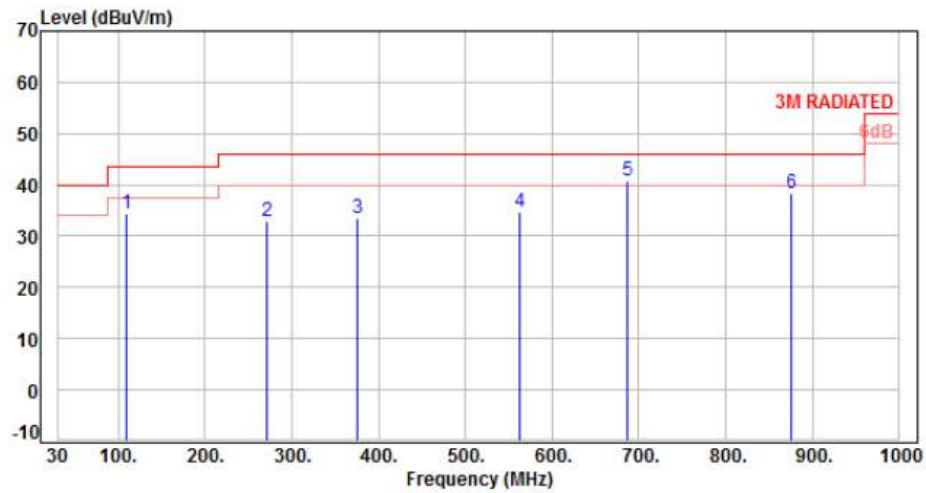


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.42	-10.54	46.31	35.77	40.00	-4.23	Peak	200	0	P
2	110.19	-12.84	48.04	35.20	43.50	-8.30	Peak	200	0	P
3	274.63	-9.38	52.20	42.82	46.00	-3.18	Peak	200	0	P
4	439.46	-5.02	41.32	36.30	46.00	-9.70	Peak	200	0	P
5	563.59	-2.51	34.77	32.26	46.00	-13.74	Peak	200	0	P
6	687.93	-0.27	35.74	35.47	46.00	-10.53	Peak	200	0	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band4		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	109.58	-12.90	47.26	34.36	43.50	-9.14	Peak	100	0	P
2	271.13	-9.54	42.42	32.88	46.00	-13.12	Peak	100	0	P
3	375.21	-6.51	40.09	33.58	46.00	-12.42	Peak	100	0	P
4	563.18	-2.53	37.25	34.72	46.00	-11.28	Peak	100	0	P
5	687.22	-0.29	40.97	40.68	46.00	-5.32	Peak	100	0	P
6	875.63	2.40	35.98	38.38	46.00	-7.62	Peak	100	0	P

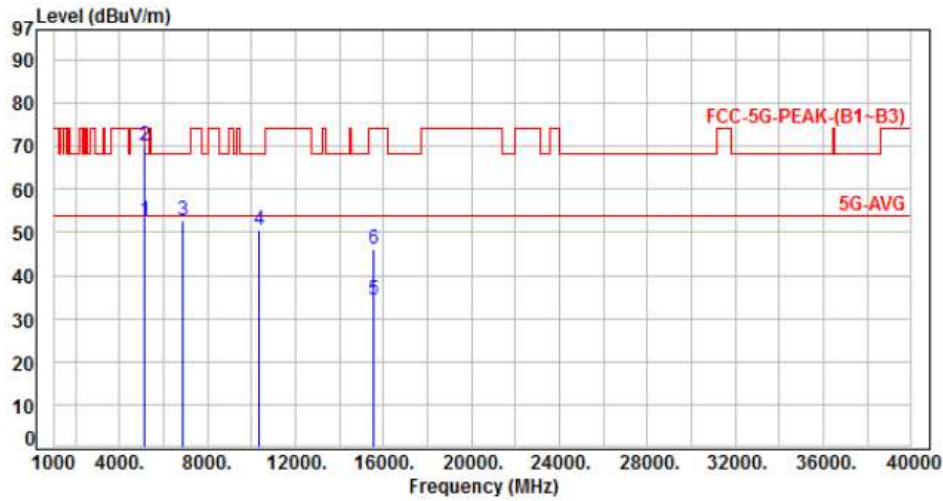
Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





### 6.6. Test Result and Data (1GHz ~ 40GHz)

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 1, CH36		:

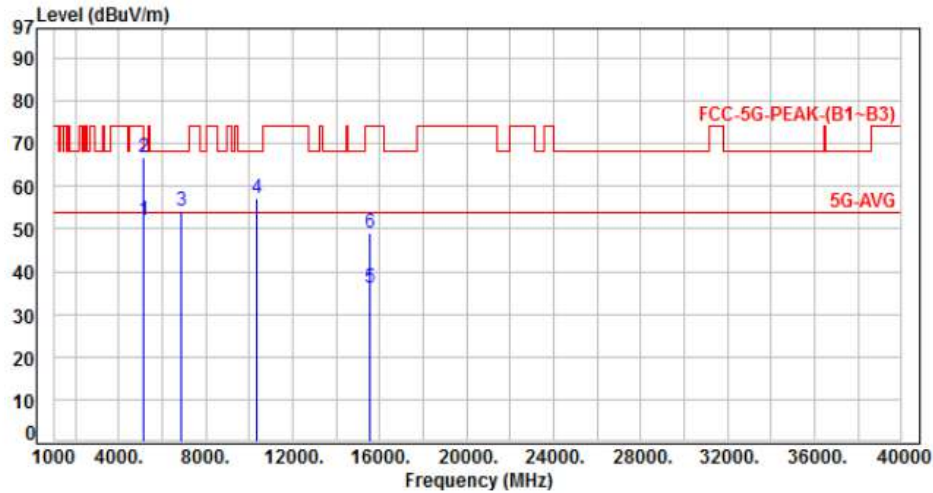


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	64.13	52.87	54.00	-1.13	Average	196	337	P
2	5150.00	-11.26	81.30	70.04	74.00	-3.96	Peak	196	337	P
3	6906.70	-9.01	61.77	52.76	68.20	-15.44	Peak	188	130	P
4	10360.00	-5.30	55.95	50.65	68.20	-17.55	Peak	163	148	P
5	15540.00	-0.68	34.95	34.27	54.00	-19.73	Average	166	144	P
6	15540.00	-0.68	46.70	46.02	74.00	-27.98	Peak	166	144	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 1, CH36		

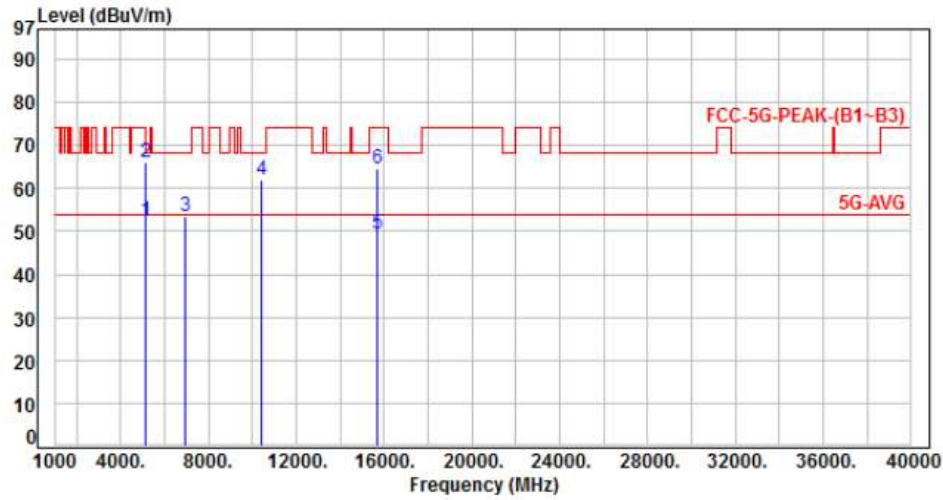


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	63.23	51.97	54.00	-2.03	Average	233	308	P
2	5150.00	-11.26	78.15	66.89	74.00	-7.11	Peak	233	308	P
3	6906.70	-9.01	63.13	54.12	68.20	-14.08	Peak	190	144	P
4	10360.00	-5.30	62.60	57.30	68.20	-10.90	Peak	170	114	P
5	15540.00	-0.68	36.90	36.22	54.00	-17.78	Average	160	194	P
6	15540.00	-0.68	49.80	49.12	74.00	-24.88	Peak	160	194	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 1, CH44		:

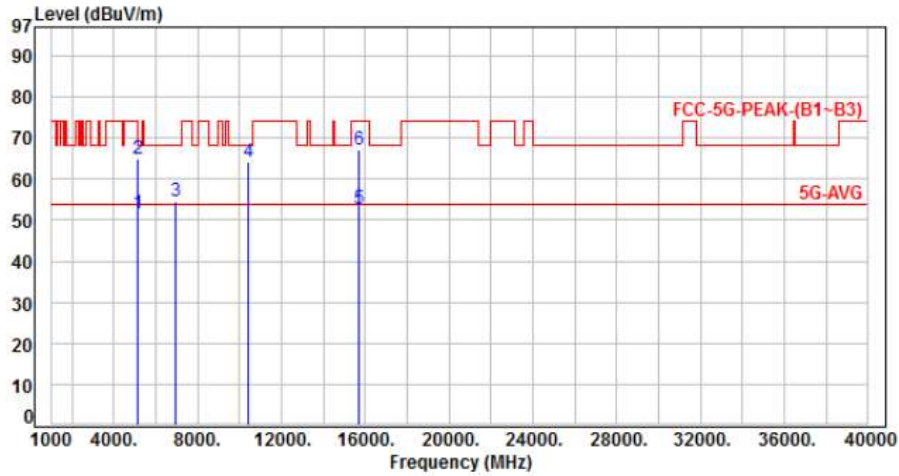


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	63.50	52.24	54.00	-1.76	Average	200	334	P
2	5150.00	-11.26	77.40	66.14	74.00	-7.86	Peak	200	334	P
3	6960.00	-8.86	62.40	53.54	68.20	-14.66	Peak	192	130	P
4	10440.00	-5.23	67.35	62.12	68.20	-6.08	Peak	135	153	P
5	15660.00	-1.02	50.35	49.33	54.00	-4.67	Average	400	121	P
6	15660.00	-1.02	65.40	64.38	74.00	-9.62	Peak	400	121	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 1, CH44		:

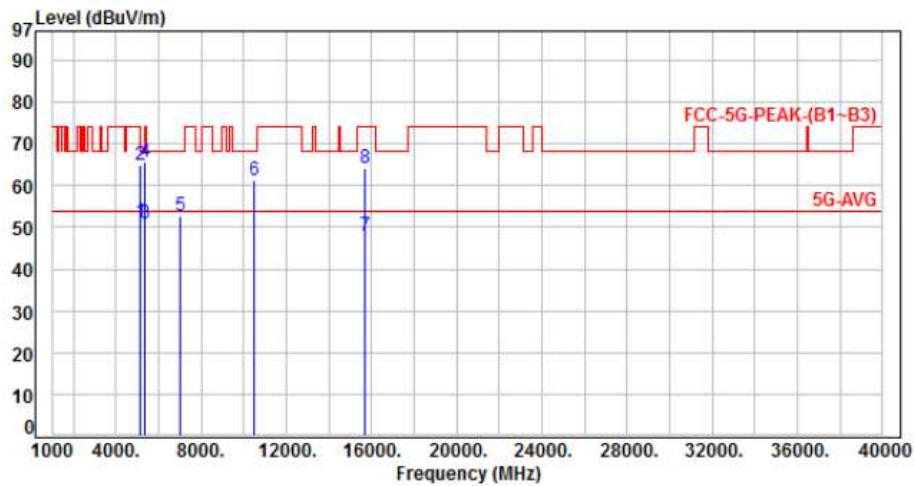


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	62.80	51.54	54.00	-2.46	Average	220	300	P
2	5150.00	-11.26	76.00	64.74	74.00	-9.26	Peak	220	300	P
3	6960.00	-8.86	63.40	54.54	68.20	-13.66	Peak	187	138	P
4	10440.00	-5.23	69.30	64.07	68.20	-4.13	Peak	175	154	P
5	15660.00	-1.02	53.85	52.83	54.00	-1.17	Average	160	200	P
6	15660.00	-1.02	68.20	67.18	74.00	-6.82	Peak	160	200	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 1, CH48		:

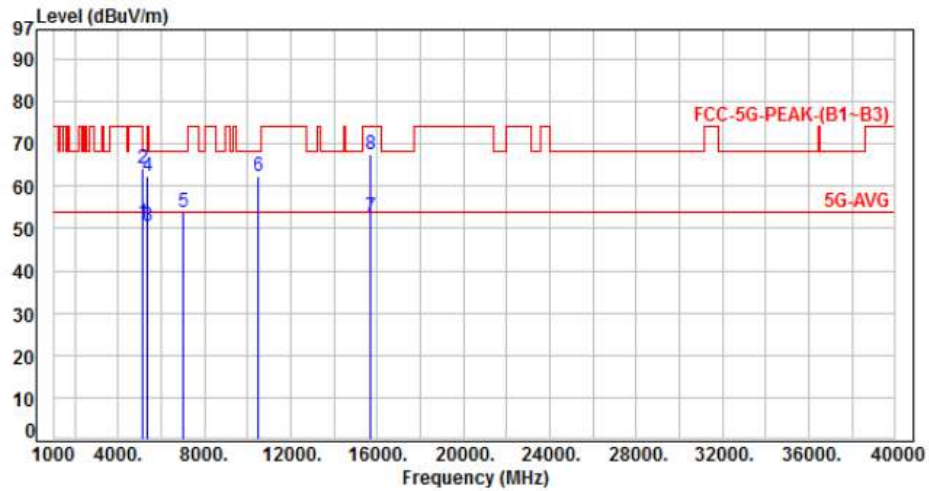


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	62.36	51.10	54.00	-2.90	Average	213	320	P
2	5150.00	-11.26	76.11	64.85	74.00	-9.15	Peak	213	320	P
3	5350.00	-11.01	62.01	51.00	54.00	-3.00	Average	213	320	P
4	5350.00	-11.01	76.54	65.53	74.00	-8.47	Peak	213	320	P
5	6986.60	-8.84	61.68	52.84	68.20	-15.36	Peak	188	131	P
6	10480.00	-5.16	66.34	61.18	68.20	-7.02	Peak	142	147	P
7	15720.00	-1.03	49.12	48.09	54.00	-5.91	Average	395	162	P
8	15720.00	-1.03	65.33	64.30	74.00	-9.70	Peak	395	162	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 1, CH48		:

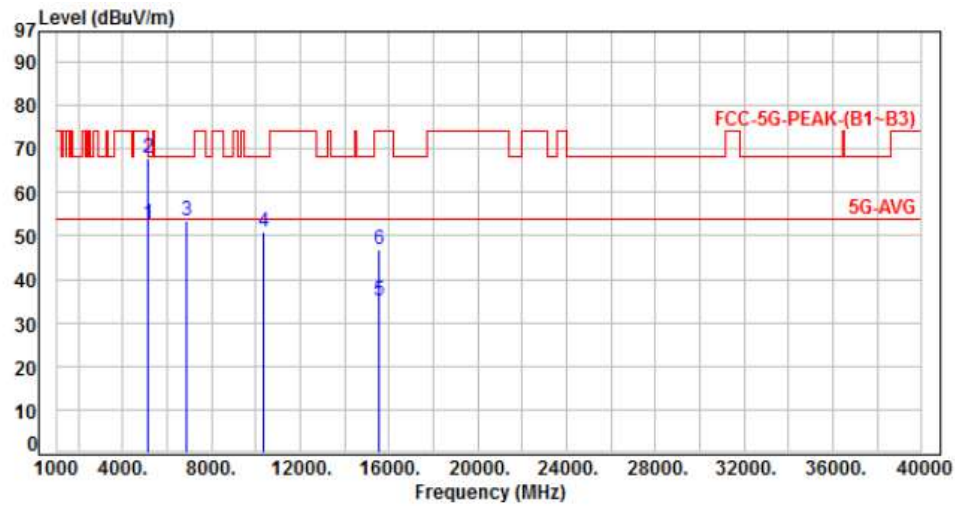


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	62.50	51.24	54.00	-2.76	Average	220	306	P
2	5150.00	-11.26	75.61	64.35	74.00	-9.65	Peak	220	306	P
3	5350.00	-11.01	61.54	50.53	54.00	-3.47	Average	220	306	P
4	5350.00	-11.01	73.44	62.43	74.00	-11.57	Peak	220	306	P
5	6986.60	-8.84	62.54	53.70	68.20	-14.50	Peak	173	144	P
6	10480.00	-5.16	67.32	62.16	68.20	-6.04	Peak	182	118	P
7	15720.00	-1.03	53.67	52.64	54.00	-1.36	Average	167	201	P
8	15720.00	-1.03	68.50	67.47	74.00	-6.53	Peak	167	201	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 1, CH36		:

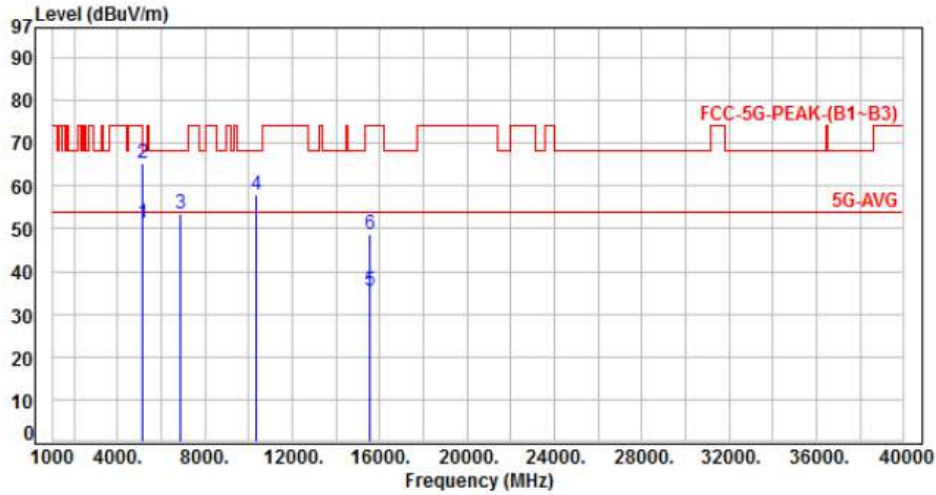


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	64.12	52.86	54.00	-1.14	Average	228	337	P
2	5150.00	-11.26	79.22	67.96	74.00	-6.04	Peak	228	337	P
3	6906.70	-9.01	62.40	53.39	68.20	-14.81	Peak	201	146	P
4	10360.00	-5.30	56.33	51.03	68.20	-17.17	Peak	167	142	P
5	15540.00	-0.68	35.88	35.20	54.00	-18.80	Average	141	163	P
6	15540.00	-0.68	47.52	46.84	74.00	-27.16	Peak	141	163	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 1, CH36		:



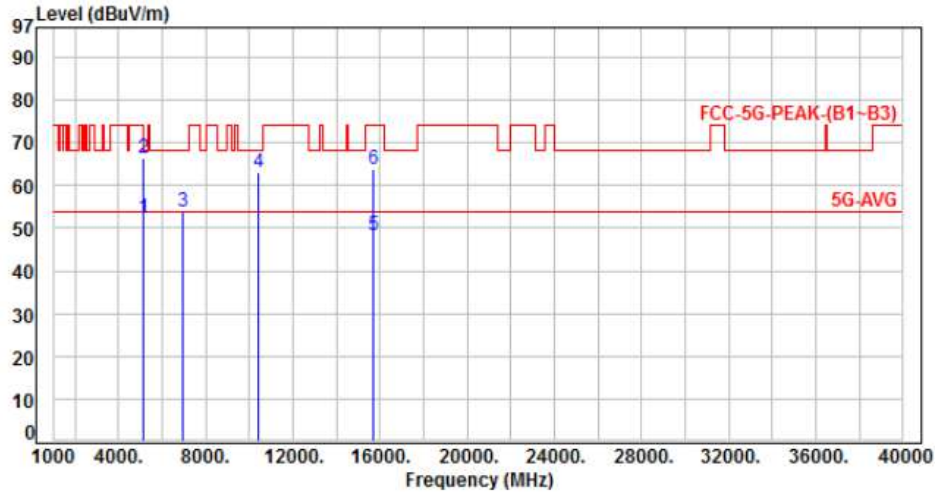
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	62.40	51.14	54.00	-2.86	Average	206	307	P
2	5150.00	-11.26	76.58	65.32	74.00	-8.68	Peak	206	307	P
3	6906.70	-9.01	62.44	53.43	68.20	-14.77	Peak	179	133	P
4	10360.00	-5.30	63.20	57.90	68.20	-10.30	Peak	164	115	P
5	15540.00	-0.68	36.21	35.53	54.00	-18.47	Average	166	201	P
6	15540.00	-0.68	49.41	48.73	74.00	-25.27	Peak	166	201	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 1, CH44		

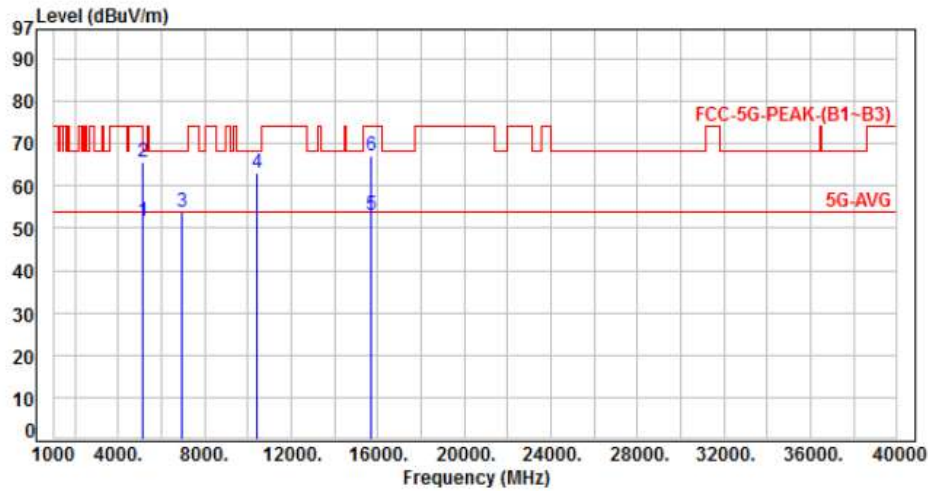


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	63.80	52.54	54.00	-1.46	Average	193	333	P
2	5150.00	-11.26	77.51	66.25	74.00	-7.75	Peak	193	333	P
3	6960.00	-8.86	62.77	53.91	68.20	-14.29	Peak	200	135	P
4	10440.00	-5.23	68.20	62.97	68.20	-5.23	Peak	180	168	P
5	15660.00	-1.02	49.20	48.18	54.00	-5.82	Average	379	106	P
6	15660.00	-1.02	64.92	63.90	74.00	-10.10	Peak	379	106	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 1, CH44		:

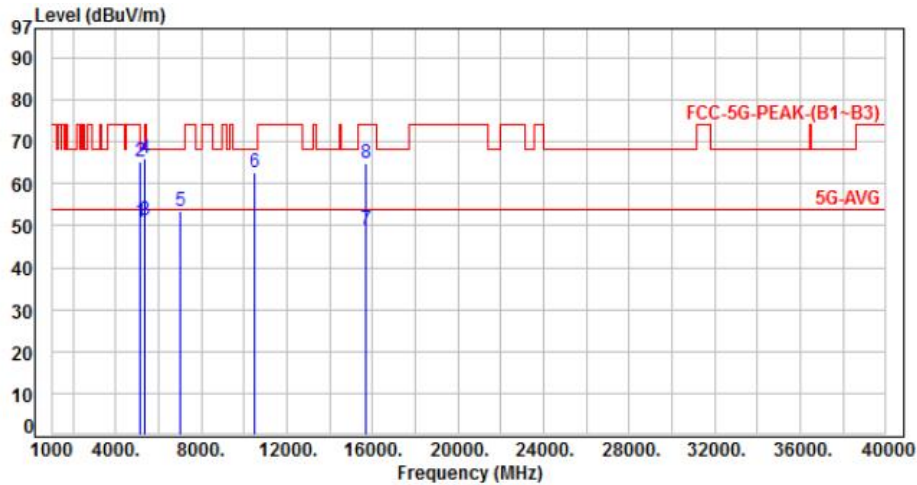


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	62.96	51.70	54.00	-2.30	Average	216	308	P
2	5150.00	-11.26	76.85	65.59	74.00	-8.41	Peak	216	308	P
3	6960.00	-8.86	62.79	53.93	68.20	-14.27	Peak	176	122	P
4	10440.00	-5.23	68.30	63.07	68.20	-5.13	Peak	180	149	P
5	15660.00	-1.02	53.98	52.96	54.00	-1.04	Average	155	203	P
6	15660.00	-1.02	68.21	67.19	74.00	-6.81	Peak	155	203	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 1, CH48		:

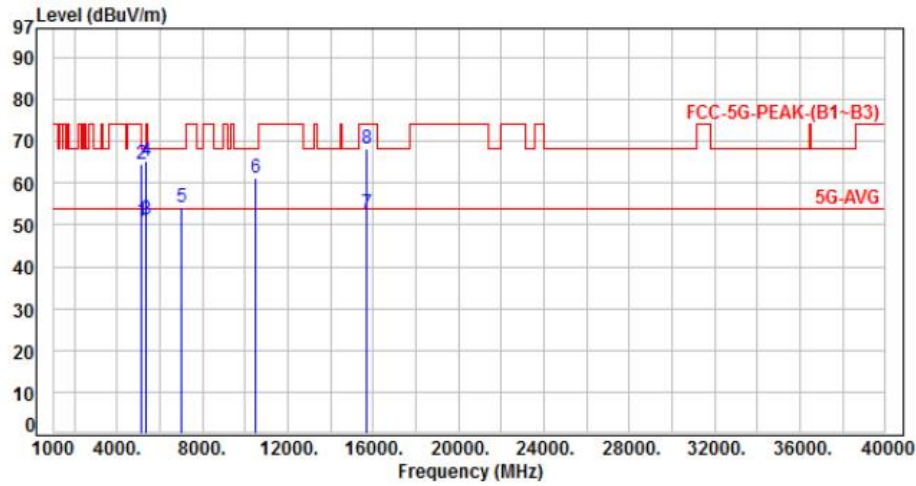


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	62.33	51.07	54.00	-2.93	Average	200	318	P
2	5150.00	-11.26	76.48	65.22	74.00	-8.78	Peak	200	318	P
3	5350.00	-11.01	62.41	51.40	54.00	-2.60	Average	200	318	P
4	5350.00	-11.01	77.03	66.02	74.00	-7.98	Peak	200	318	P
5	6986.78	-8.84	62.48	53.64	68.20	-14.56	Peak	178	121	P
6	10480.00	-5.16	67.98	62.82	68.20	-5.38	Peak	185	154	P
7	15720.00	-1.03	49.95	48.92	54.00	-5.08	Average	182	166	P
8	15720.00	-1.03	66.10	65.07	74.00	-8.93	Peak	182	166	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 1, CH48		:

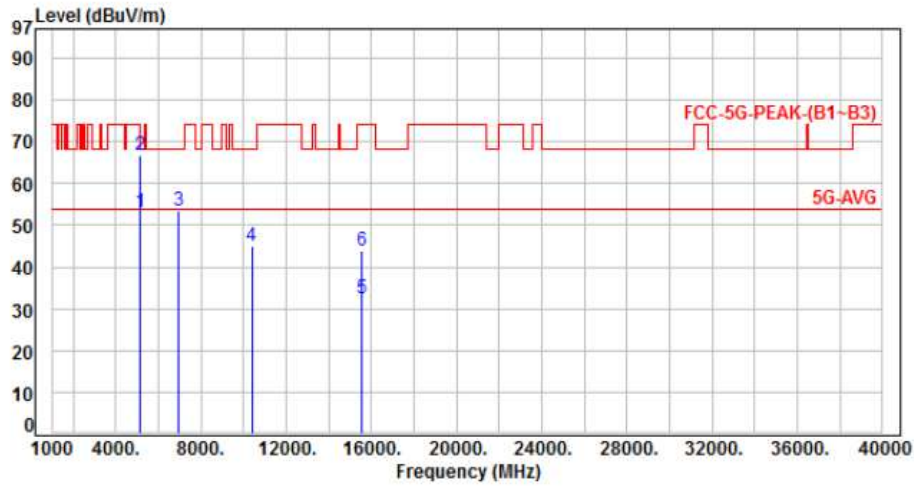


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	62.05	50.79	54.00	-3.21	Average	233	324	P
2	5150.00	-11.26	75.87	64.61	74.00	-9.39	Peak	233	324	P
3	5350.00	-11.01	62.32	51.31	54.00	-2.69	Average	233	324	P
4	5350.00	-11.01	76.39	65.38	74.00	-8.62	Peak	233	324	P
5	6986.78	-8.84	63.22	54.38	68.20	-13.82	Peak	178	145	P
6	10480.00	-5.16	66.56	61.40	68.20	-6.80	Peak	182	117	P
7	15720.00	-1.03	53.79	52.76	54.00	-1.24	Average	161	205	P
8	15720.00	-1.03	69.10	68.07	74.00	-5.93	Peak	161	205	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 1, CH38		:

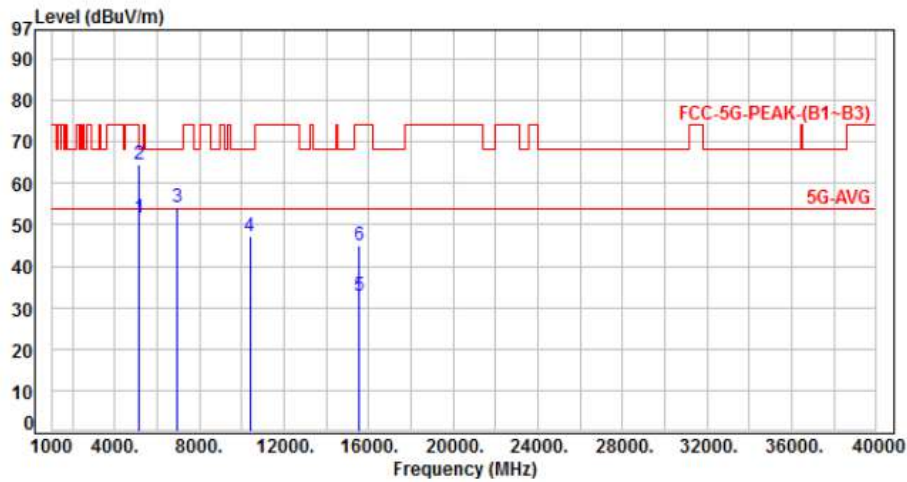


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5144.00	-11.28	64.25	52.97	54.00	-1.03	Average	159	332	P
2	5144.00	-11.28	77.98	66.70	74.00	-7.30	Peak	159	332	P
3	6920.00	-8.96	62.39	53.43	68.20	-14.77	Peak	176	244	P
4	10380.00	-5.30	50.21	44.91	68.20	-23.29	Peak	175	170	P
5	15570.00	-0.82	33.25	32.43	54.00	-21.57	Average	100	73	P
6	15570.00	-0.82	44.80	43.98	74.00	-30.02	Peak	100	73	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 1, CH38		:

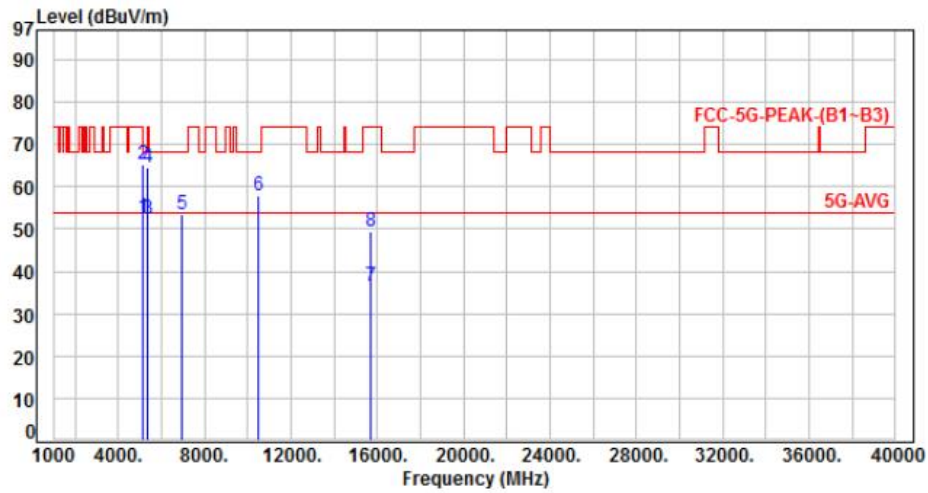


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5144.00	-11.28	63.10	51.82	54.00	-2.18	Average	221	300	P
2	5144.00	-11.28	75.80	64.52	74.00	-9.48	Peak	221	300	P
3	6920.00	-8.96	63.24	54.28	68.20	-13.92	Peak	185	167	P
4	10380.00	-5.30	52.50	47.20	68.20	-21.00	Peak	170	117	P
5	15570.00	-0.82	33.68	32.86	54.00	-21.14	Average	100	211	P
6	15570.00	-0.82	45.66	44.84	74.00	-29.16	Peak	100	211	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 1, CH46		:

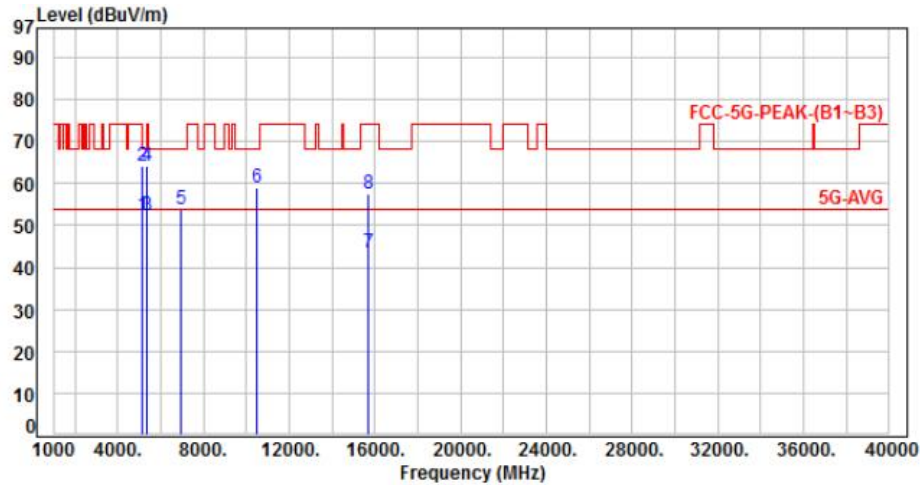


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	64.10	52.84	54.00	-1.16	Average	200	323	P
2	5150.00	-11.26	76.50	65.24	74.00	-8.76	Peak	200	323	P
3	5350.00	-11.01	63.21	52.20	54.00	-1.80	Average	200	323	P
4	5350.00	-11.01	75.50	64.49	74.00	-9.51	Peak	200	323	P
5	6973.31	-8.85	62.45	53.60	68.20	-14.60	Peak	193	122	P
6	10460.00	-5.20	63.13	57.93	68.20	-10.27	Peak	178	166	P
7	15690.00	-1.05	37.54	36.49	54.00	-17.51	Average	395	105	P
8	15690.00	-1.05	50.60	49.55	74.00	-24.45	Peak	395	105	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 1, CH46		



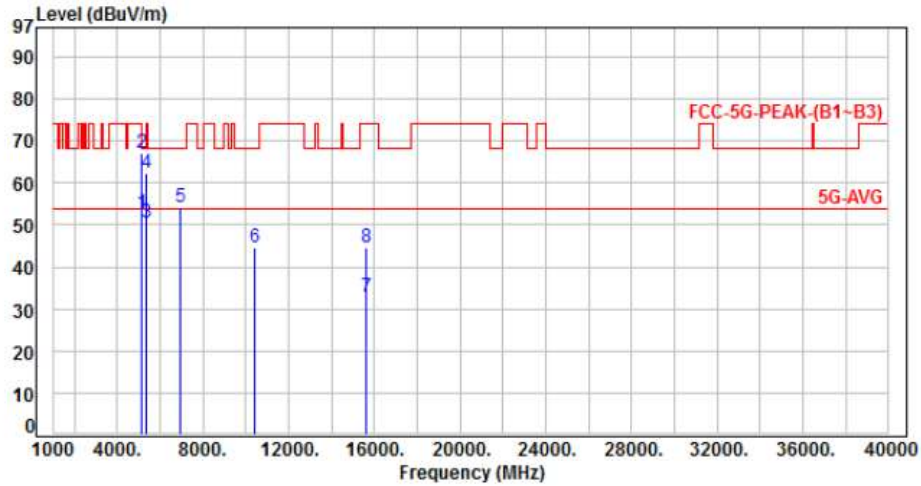
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-11.26	63.73	52.47	54.00	-1.53	Average	245	324	P
2	5150.00	-11.26	75.60	64.34	74.00	-9.66	Peak	245	324	P
3	5350.00	-11.01	63.50	52.49	54.00	-1.51	Average	245	324	P
4	5350.00	-11.01	75.20	64.19	74.00	-9.81	Peak	245	324	P
5	6973.31	-8.85	62.80	53.95	68.20	-14.25	Peak	180	139	P
6	10460.00	-5.20	64.22	59.02	68.20	-9.18	Peak	184	152	P
7	15690.00	-1.05	44.65	43.60	54.00	-10.40	Average	163	201	P
8	15690.00	-1.05	58.42	57.37	74.00	-16.63	Peak	163	201	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 1, CH42		:

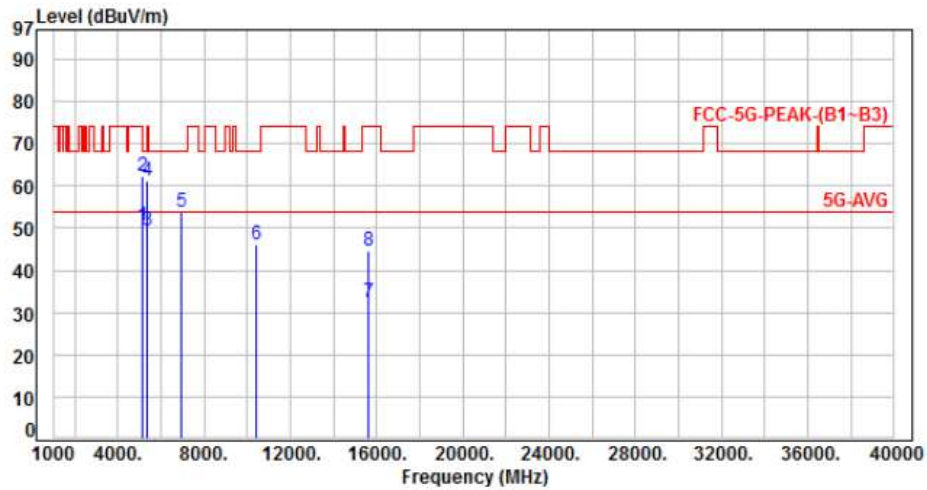


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5141.00	-11.30	63.91	52.61	54.00	-1.39	Average	210	333	P
2	5141.00	-11.30	78.53	67.23	74.00	-6.77	Peak	210	333	P
3	5350.00	-11.01	61.63	50.62	54.00	-3.38	Average	210	333	P
4	5350.00	-11.01	73.20	62.19	74.00	-11.81	Peak	210	333	P
5	6946.70	-8.88	63.10	54.22	68.20	-13.98	Peak	205	136	P
6	10420.00	-5.27	49.88	44.61	68.20	-23.59	Peak	190	211	P
7	15630.00	-1.00	33.68	32.68	54.00	-21.32	Average	100	76	P
8	15630.00	-1.00	45.68	44.68	74.00	-29.32	Peak	100	76	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 1, CH42		

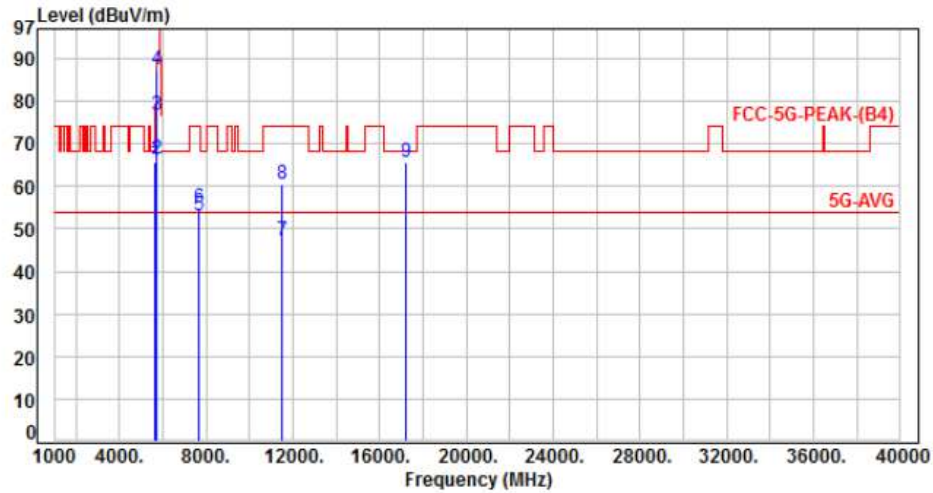


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5141.00	-11.30	61.79	50.49	54.00	-3.51	Average	100	343	P
2	5141.00	-11.30	73.71	62.41	74.00	-11.59	Peak	100	343	P
3	5350.00	-11.01	60.60	49.59	54.00	-4.41	Average	100	343	P
4	5350.00	-11.01	72.30	61.29	74.00	-12.71	Peak	100	343	P
5	6946.70	-8.88	62.67	53.79	68.20	-14.41	Peak	200	151	P
6	10420.00	-5.27	51.40	46.13	68.20	-22.07	Peak	200	151	P
7	15630.00	-1.00	33.53	32.53	54.00	-21.47	Average	100	319	P
8	15630.00	-1.00	45.71	44.71	74.00	-29.29	Peak	100	319	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH149		:

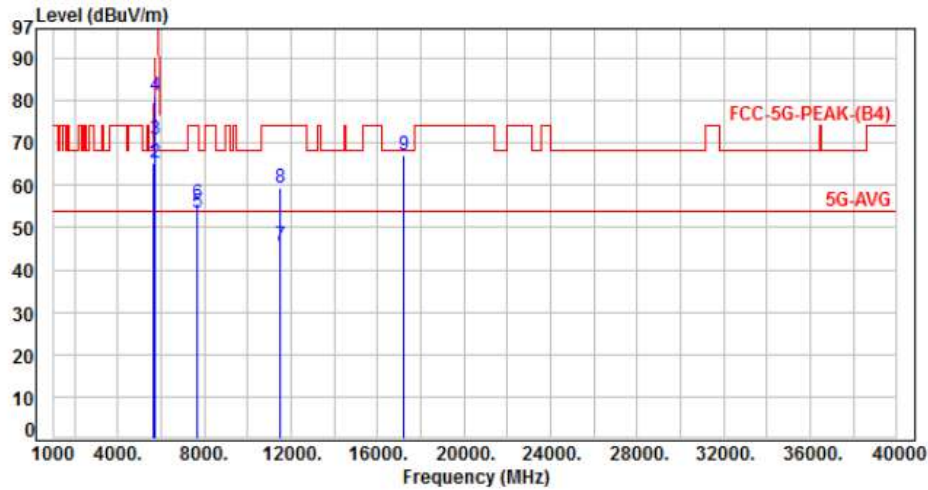


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	76.80	65.79	68.20	-2.41	Peak	233	360	P
2	5700.00	-11.12	77.50	66.38	105.20	-38.82	Peak	233	360	P
3	5720.00	-11.13	87.96	76.83	110.80	-33.97	Peak	233	360	P
4	5725.00	-11.13	98.60	87.47	122.20	-34.73	Peak	233	360	P
5	7660.00	-7.85	60.94	53.09	54.00	-0.91	Average	204	183	P
6	7660.00	-7.85	62.71	54.86	74.00	-19.14	Peak	204	183	P
7	11490.00	-4.06	51.30	47.24	54.00	-6.76	Average	183	169	P
8	11490.00	-4.06	64.70	60.64	74.00	-13.36	Peak	183	169	P
9	17235.00	4.76	60.95	65.71	68.20	-2.49	Peak	174	128	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH149		:

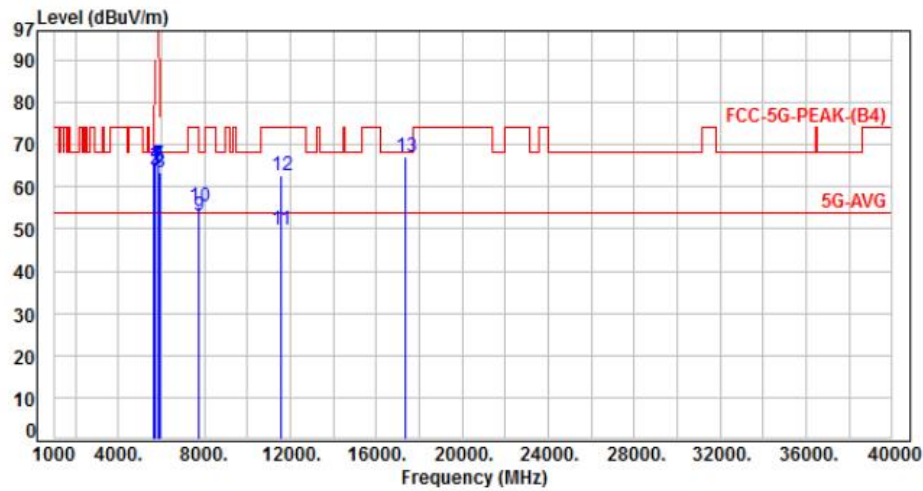


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	76.12	65.11	68.20	-3.09	Peak	230	281	P
2	5700.00	-11.12	76.52	65.40	105.20	-39.80	Peak	230	281	P
3	5720.00	-11.13	82.00	70.87	110.80	-39.93	Peak	230	281	P
4	5725.00	-11.13	92.31	81.18	122.20	-41.02	Peak	230	281	P
5	7660.00	-7.85	61.21	53.36	54.00	-0.64	Average	193	180	P
6	7660.00	-7.85	63.41	55.56	74.00	-18.44	Peak	193	180	P
7	11490.00	-4.06	49.63	45.57	54.00	-8.43	Average	176	261	P
8	11490.00	-4.06	63.47	59.41	74.00	-14.59	Peak	176	261	P
9	17235.00	4.76	62.30	67.06	68.20	-1.14	Peak	126	113	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH157		:

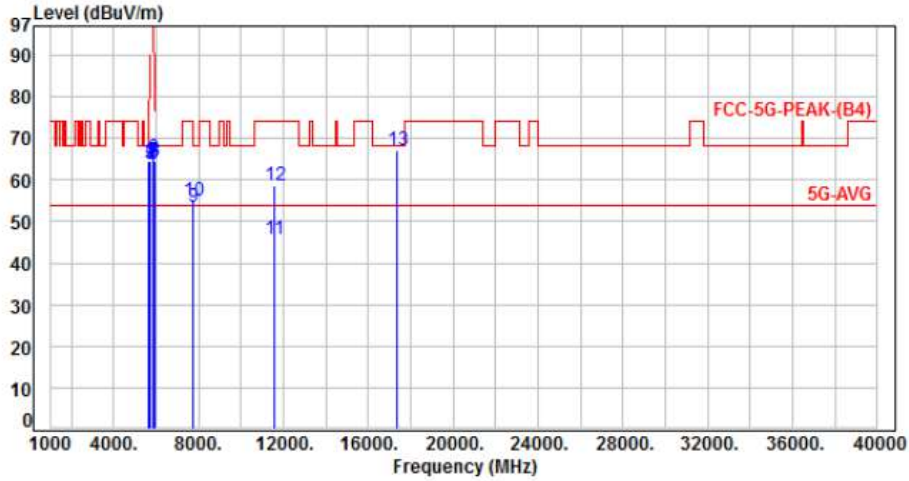


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	76.33	65.32	68.20	-2.88	Peak	230	339	P
2	5700.00	-11.12	75.47	64.35	105.20	-40.85	Peak	230	339	P
3	5720.00	-11.13	74.94	63.81	110.80	-46.99	Peak	230	339	P
4	5725.00	-11.13	76.34	65.21	122.20	-56.99	Peak	230	339	P
5	5850.00	-11.05	75.89	64.84	122.20	-57.36	Peak	230	339	P
6	5855.00	-11.03	75.44	64.41	110.80	-46.39	Peak	230	339	P
7	5875.00	-10.96	76.24	65.28	105.20	-39.92	Peak	230	339	P
8	5925.00	-10.87	74.28	63.41	68.20	-4.79	Peak	230	339	P
9	7713.34	-7.83	61.00	53.17	54.00	-0.83	Average	195	192	P
10	7713.34	-7.83	63.20	55.37	74.00	-18.63	Peak	195	192	P
11	11570.00	-3.75	53.50	49.75	54.00	-4.25	Average	183	162	P
12	11570.00	-3.75	66.60	62.85	74.00	-11.15	Peak	183	162	P
13	17355.00	5.45	61.68	67.13	68.20	-1.07	Peak	160	140	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH157		:

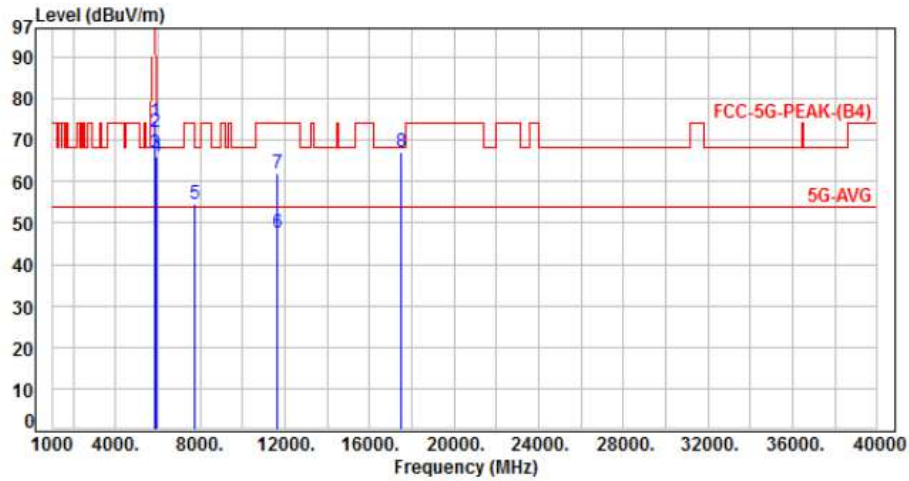


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	75.63	64.62	68.20	-3.58	Peak	220	282	P
2	5700.00	-11.12	75.33	64.21	105.20	-40.99	Peak	220	282	P
3	5720.00	-11.13	74.98	63.85	110.80	-46.95	Peak	220	282	P
4	5725.00	-11.13	75.64	64.51	122.20	-57.69	Peak	220	282	P
5	5850.00	-11.05	74.98	63.93	122.20	-58.27	Peak	220	282	P
6	5855.00	-11.03	76.41	65.38	110.80	-45.42	Peak	220	282	P
7	5875.00	-10.96	75.56	64.60	105.20	-40.60	Peak	220	282	P
8	5925.00	-10.87	75.47	64.60	68.20	-3.60	Peak	220	282	P
9	7713.34	-7.83	61.40	53.57	54.00	-0.43	Average	201	145	P
10	7713.34	-7.83	62.90	55.07	74.00	-18.93	Peak	201	145	P
11	11570.00	-3.75	49.50	45.75	54.00	-8.25	Average	400	209	P
12	11570.00	-3.75	62.51	58.76	74.00	-15.24	Peak	400	209	P
13	17355.00	5.45	61.71	67.16	68.20	-1.04	Peak	166	204	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH165		:

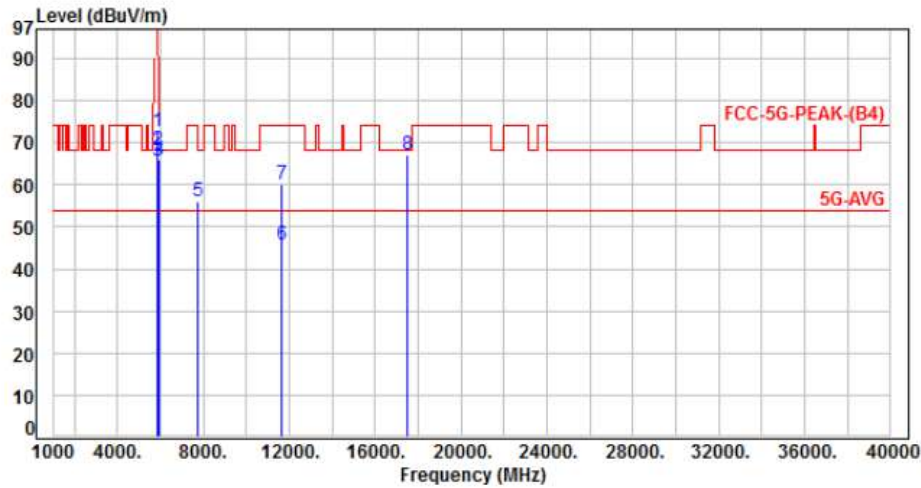


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-11.05	85.70	74.65	122.20	-47.55	Peak	196	347	P
2	5855.00	-11.03	83.10	72.07	110.80	-38.73	Peak	196	347	P
3	5875.00	-10.96	77.60	66.64	105.20	-38.56	Peak	196	347	P
4	5925.00	-10.87	76.80	65.93	68.20	-2.27	Peak	196	347	P
5	7766.70	-7.77	62.44	54.67	68.20	-13.53	Peak	216	200	P
6	11650.00	-3.57	51.30	47.73	54.00	-6.27	Average	180	171	P
7	11650.00	-3.57	65.40	61.83	74.00	-12.17	Peak	180	171	P
8	17475.00	6.36	60.63	66.99	68.20	-1.21	Peak	142	160	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH165		:



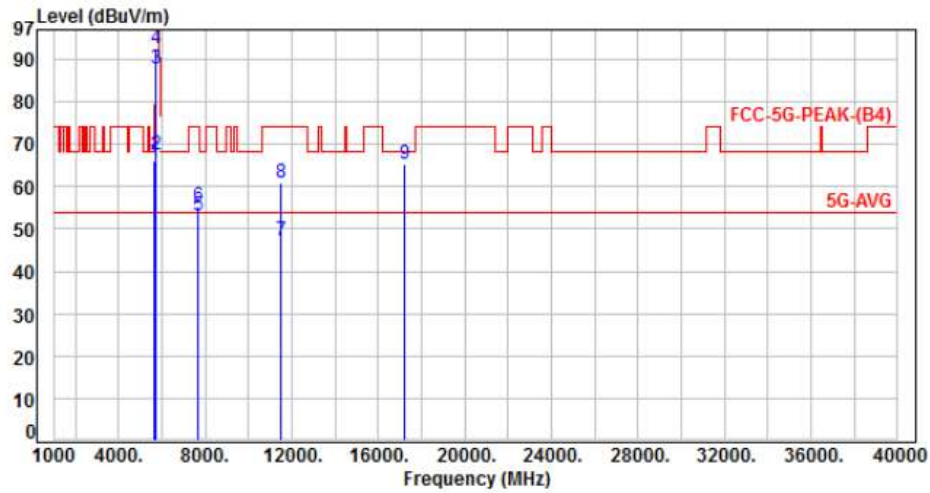
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-11.05	83.66	72.61	122.20	-49.59	Peak	230	280	P
2	5855.00	-11.03	79.30	68.27	110.80	-42.53	Peak	230	280	P
3	5875.00	-10.96	76.53	65.57	105.20	-39.63	Peak	230	280	P
4	5925.00	-10.87	76.77	65.90	68.20	-2.30	Peak	230	280	P
5	7766.70	-7.77	63.70	55.93	68.20	-12.27	Peak	195	144	P
6	11650.00	-3.57	49.22	45.65	54.00	-8.35	Average	188	221	P
7	11650.00	-3.57	63.83	60.26	74.00	-13.74	Peak	188	221	P
8	17475.00	6.36	60.75	67.11	68.20	-1.09	Peak	144	115	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH149		:

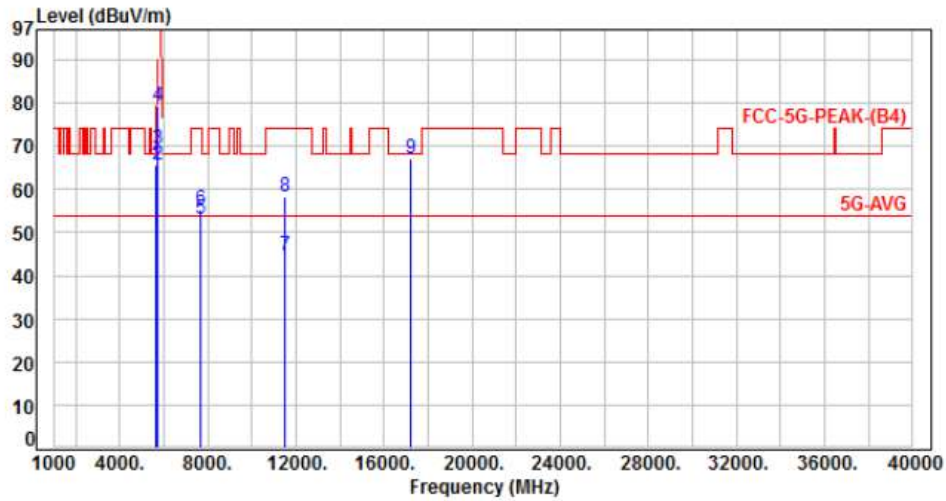


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	77.20	66.19	68.20	-2.01	Peak	180	349	P
2	5700.00	-11.12	78.56	67.44	105.20	-37.76	Peak	180	349	P
3	5720.00	-11.13	98.97	87.84	110.80	-22.96	Peak	180	349	P
4	5725.00	-11.13	103.81	92.68	122.20	-29.52	Peak	180	349	P
5	7660.00	-7.85	60.96	53.11	54.00	-0.89	Average	186	177	P
6	7660.00	-7.85	63.21	55.36	74.00	-18.64	Peak	186	177	P
7	11490.00	-4.06	51.20	47.14	54.00	-6.86	Average	155	144	P
8	11490.00	-4.06	65.10	61.04	74.00	-12.96	Peak	155	144	P
9	17235.00	4.76	60.48	65.24	68.20	-2.96	Peak	150	132	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH149		:

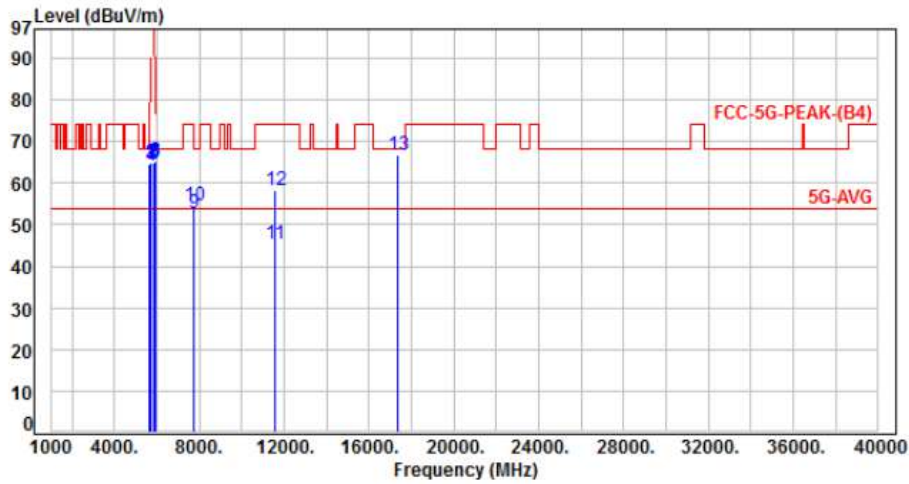


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	76.55	65.54	68.20	-2.66	Peak	211	275	P
2	5700.00	-11.12	76.60	65.48	105.20	-39.72	Peak	211	275	P
3	5720.00	-11.13	80.61	69.48	110.80	-41.32	Peak	211	275	P
4	5725.00	-11.13	90.41	79.28	122.20	-42.92	Peak	211	275	P
5	7660.00	-7.85	61.13	53.28	54.00	-0.72	Average	210	168	P
6	7660.00	-7.85	63.35	55.50	74.00	-18.50	Peak	210	168	P
7	11490.00	-4.06	48.68	44.62	54.00	-9.38	Average	170	214	P
8	11490.00	-4.06	62.50	58.44	74.00	-15.56	Peak	170	214	P
9	17235.00	4.76	62.42	67.18	68.20	-1.02	Peak	396	107	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH157		:

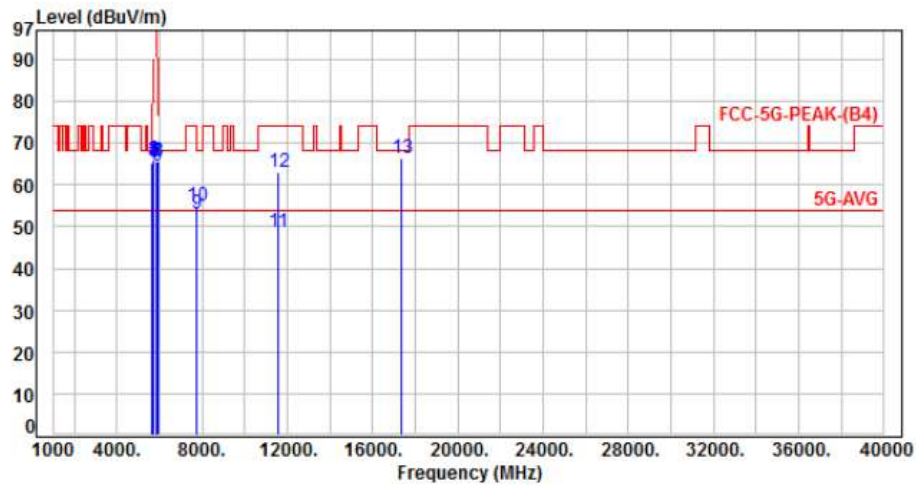


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	75.68	64.67	68.20	-3.53	Peak	226	274	P
2	5700.00	-11.12	75.99	64.87	105.20	-40.33	Peak	226	274	P
3	5720.00	-11.13	75.83	64.70	110.80	-46.10	Peak	226	274	P
4	5725.00	-11.13	75.37	64.24	122.20	-57.96	Peak	226	274	P
5	5850.00	-11.05	75.54	64.49	122.20	-57.71	Peak	226	274	P
6	5855.00	-11.03	75.44	64.41	110.80	-46.39	Peak	226	274	P
7	5875.00	-10.96	75.96	65.00	105.20	-40.20	Peak	226	274	P
8	5925.00	-10.87	76.22	65.35	68.20	-2.85	Peak	226	274	P
9	7713.34	-7.83	60.45	52.62	54.00	-1.38	Average	193	192	P
10	7713.34	-7.83	62.60	54.77	74.00	-19.23	Peak	193	192	P
11	11570.00	-3.75	48.97	45.22	54.00	-8.78	Average	152	219	P
12	11570.00	-3.75	62.20	58.45	74.00	-15.55	Peak	152	219	P
13	17355.00	5.45	61.47	66.92	68.20	-1.28	Peak	164	206	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH157		:

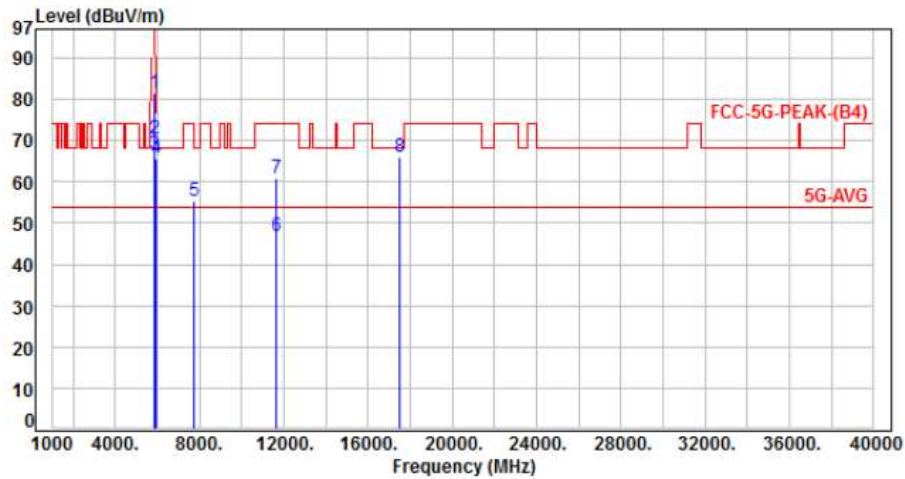


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	76.30	65.29	68.20	-2.91	Peak	200	340	P
2	5700.00	-11.12	77.10	65.98	105.20	-39.22	Peak	200	340	P
3	5720.00	-11.13	76.81	65.68	110.80	-45.12	Peak	200	340	P
4	5725.00	-11.13	76.63	65.50	122.20	-56.70	Peak	200	340	P
5	5850.00	-11.05	76.60	65.55	122.20	-56.65	Peak	200	340	P
6	5855.00	-11.03	75.54	64.51	110.80	-46.29	Peak	200	340	P
7	5875.00	-10.96	76.34	65.38	105.20	-39.82	Peak	200	340	P
8	5925.00	-10.87	76.41	65.54	68.20	-2.66	Peak	200	340	P
9	7713.34	-7.83	60.93	53.10	54.00	-0.90	Average	201	142	P
10	7713.34	-7.83	62.80	54.97	74.00	-19.03	Peak	201	142	P
11	11570.00	-3.75	52.30	48.55	54.00	-5.45	Average	170	163	P
12	11570.00	-3.75	66.80	63.05	74.00	-10.95	Peak	170	163	P
13	17355.00	5.45	60.95	66.40	68.20	-1.80	Peak	152	141	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH165		:

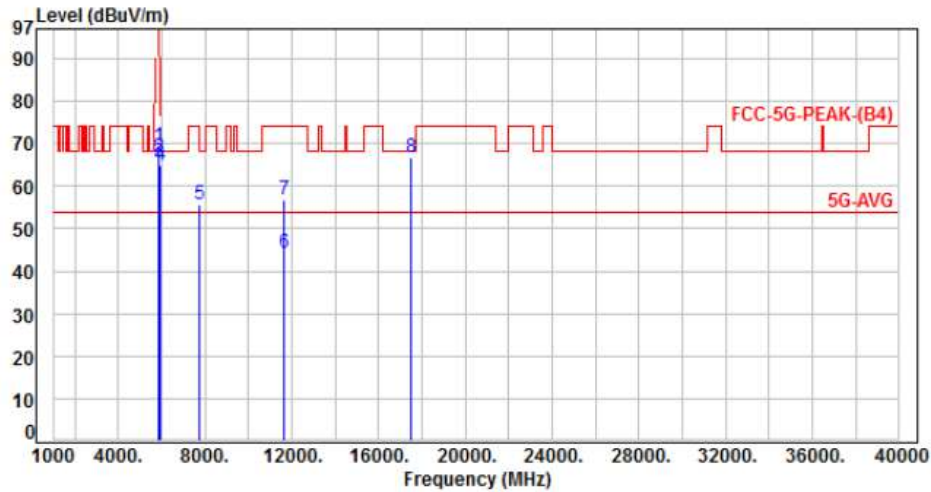


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-11.05	92.60	81.55	122.20	-40.65	Peak	204	346	P
2	5855.00	-11.03	81.60	70.57	110.80	-40.23	Peak	204	346	P
3	5875.00	-10.96	77.71	66.75	105.20	-38.45	Peak	204	346	P
4	5925.00	-10.87	76.61	65.74	68.20	-2.46	Peak	204	346	P
5	7766.80	-7.77	63.08	55.31	68.20	-12.89	Peak	193	137	P
6	11650.00	-3.57	50.47	46.90	54.00	-7.10	Average	163	155	P
7	11650.00	-3.57	64.33	60.76	74.00	-13.24	Peak	163	155	P
8	17475.00	6.36	59.75	66.11	68.20	-2.09	Peak	143	166	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH165		:

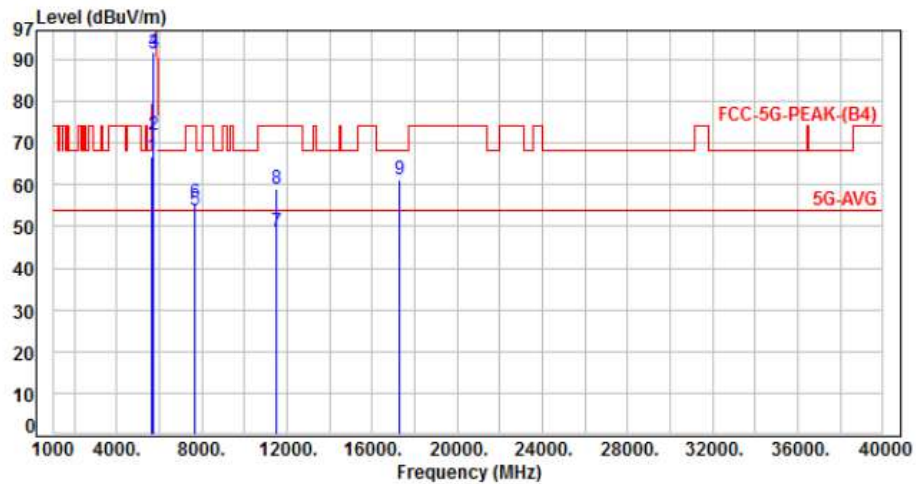


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-11.05	80.25	69.20	122.20	-53.00	Peak	215	187	P
2	5855.00	-11.03	77.95	66.92	110.80	-43.88	Peak	215	187	P
3	5875.00	-10.96	76.65	65.69	105.20	-39.51	Peak	215	187	P
4	5925.00	-10.87	75.72	64.85	68.20	-3.35	Peak	215	187	P
5	7766.80	-7.77	63.55	55.78	68.20	-12.42	Peak	215	187	P
6	11650.00	-3.57	47.66	44.09	54.00	-9.91	Average	180	214	P
7	11650.00	-3.57	60.23	56.66	74.00	-17.34	Peak	180	214	P
8	17475.00	6.36	60.42	66.78	68.20	-1.42	Peak	378	102	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 4, CH151		:

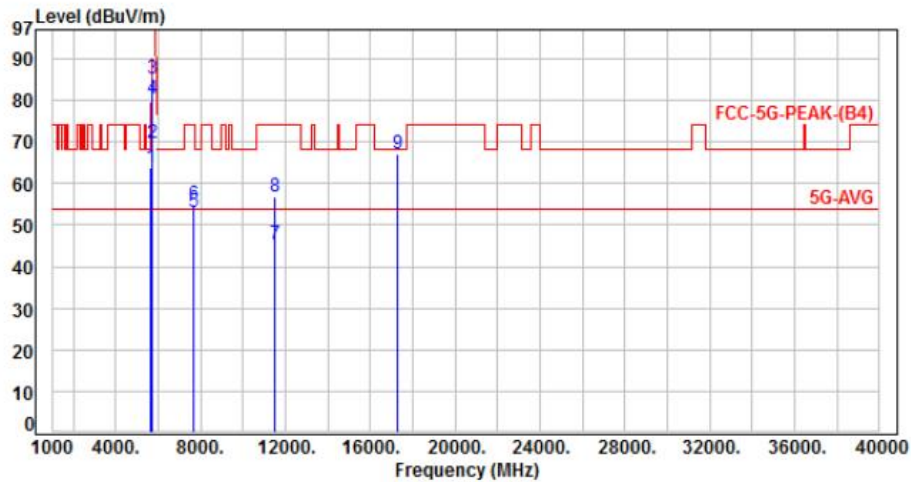


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	77.80	66.79	68.20	-1.41	Peak	244	337	P
2	5700.00	-11.12	82.90	71.78	105.20	-33.42	Peak	244	337	P
3	5720.00	-11.13	102.67	91.54	110.80	-19.26	Peak	244	337	P
4	5725.00	-11.13	102.98	91.85	122.20	-30.35	Peak	244	337	P
5	7673.30	-7.85	61.58	53.73	54.00	-0.27	Average	182	166	P
6	7673.30	-7.85	63.70	55.85	74.00	-18.15	Peak	182	166	P
7	11510.00	-4.01	52.73	48.72	54.00	-5.28	Average	183	168	P
8	11510.00	-4.01	62.96	58.95	74.00	-15.05	Peak	183	168	P
9	17265.00	4.91	56.50	61.41	68.20	-6.79	Peak	148	157	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 4, CH151		:



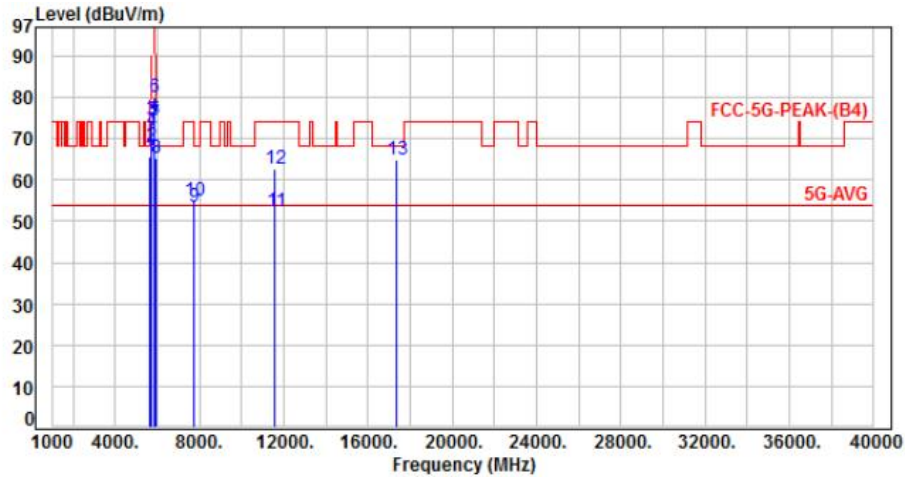
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	74.90	63.89	68.20	-4.31	Peak	216	283	P
2	5700.00	-11.12	80.96	69.84	105.20	-35.36	Peak	216	283	P
3	5720.00	-11.13	96.21	85.08	110.80	-25.72	Peak	216	283	P
4	5725.00	-11.13	91.66	80.53	122.20	-41.67	Peak	216	283	P
5	7673.30	-7.85	60.89	53.04	54.00	-0.96	Average	178	164	P
6	7673.30	-7.85	62.88	55.03	74.00	-18.97	Peak	178	164	P
7	11510.00	-4.01	49.53	45.52	54.00	-8.48	Average	142	171	P
8	11510.00	-4.01	60.76	56.75	74.00	-17.25	Peak	142	171	P
9	17265.00	4.91	62.20	67.11	68.20	-1.09	Peak	155	188	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 4, CH159		:

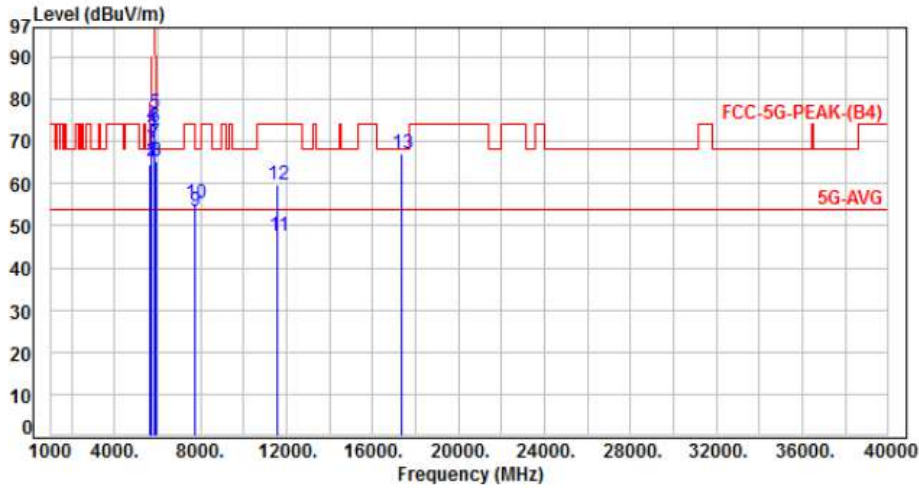


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	76.70	65.69	68.20	-2.51	Peak	200	344	P
2	5700.00	-11.12	79.50	68.38	105.20	-36.82	Peak	200	344	P
3	5720.00	-11.13	85.61	74.48	110.80	-36.32	Peak	200	344	P
4	5725.00	-11.13	83.20	72.07	122.20	-50.13	Peak	200	344	P
5	5850.00	-11.05	85.70	74.65	122.20	-47.55	Peak	200	344	P
6	5855.00	-11.03	90.90	79.87	110.80	-30.93	Peak	200	344	P
7	5875.00	-10.96	84.64	73.68	105.20	-31.52	Peak	200	344	P
8	5925.00	-10.87	76.22	65.35	68.20	-2.85	Peak	200	344	P
9	7726.60	-7.81	61.27	53.46	54.00	-0.54	Average	211	190	P
10	7726.60	-7.81	62.93	55.12	74.00	-18.88	Peak	211	190	P
11	11590.00	-3.67	56.20	52.53	54.00	-1.47	Average	170	167	P
12	11590.00	-3.67	66.30	62.63	74.00	-11.37	Peak	170	167	P
13	17385.00	5.66	59.35	65.01	68.20	-3.19	Peak	134	180	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 4, CH159		:

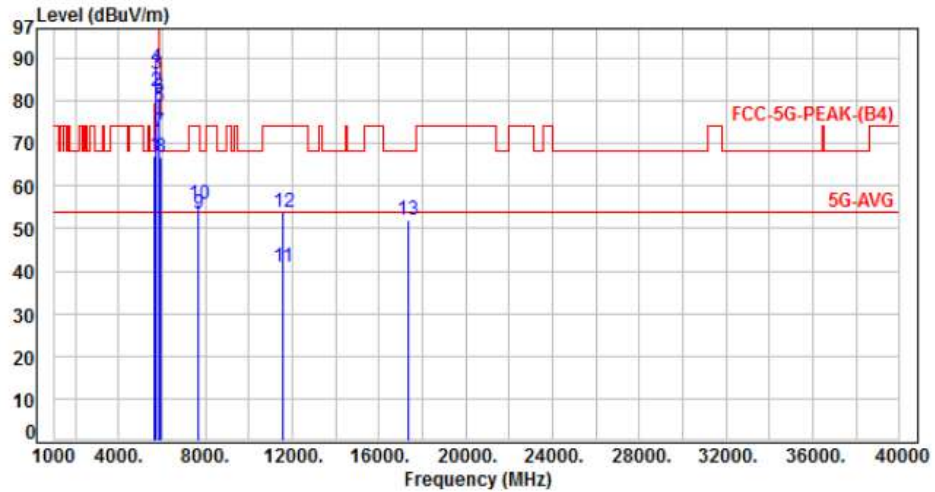


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	75.63	64.62	68.20	-3.58	Peak	220	280	P
2	5700.00	-11.12	76.50	65.38	105.20	-39.82	Peak	220	280	P
3	5720.00	-11.13	82.00	70.87	110.80	-39.93	Peak	220	280	P
4	5725.00	-11.13	84.91	73.78	122.20	-48.42	Peak	220	280	P
5	5850.00	-11.05	87.60	76.55	122.20	-45.65	Peak	220	280	P
6	5855.00	-11.03	84.30	73.27	110.80	-37.53	Peak	220	280	P
7	5875.00	-10.96	80.60	69.64	105.20	-35.56	Peak	220	280	P
8	5925.00	-10.87	76.30	65.43	68.20	-2.77	Peak	220	280	P
9	7726.60	-7.81	61.40	53.59	54.00	-0.41	Average	196	172	P
10	7726.60	-7.81	63.00	55.19	74.00	-18.81	Peak	196	172	P
11	11590.00	-3.67	51.20	47.53	54.00	-6.47	Average	394	211	P
12	11590.00	-3.67	63.60	59.93	74.00	-14.07	Peak	394	211	P
13	17385.00	5.66	61.50	67.16	68.20	-1.04	Peak	160	196	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 4, CH155		:

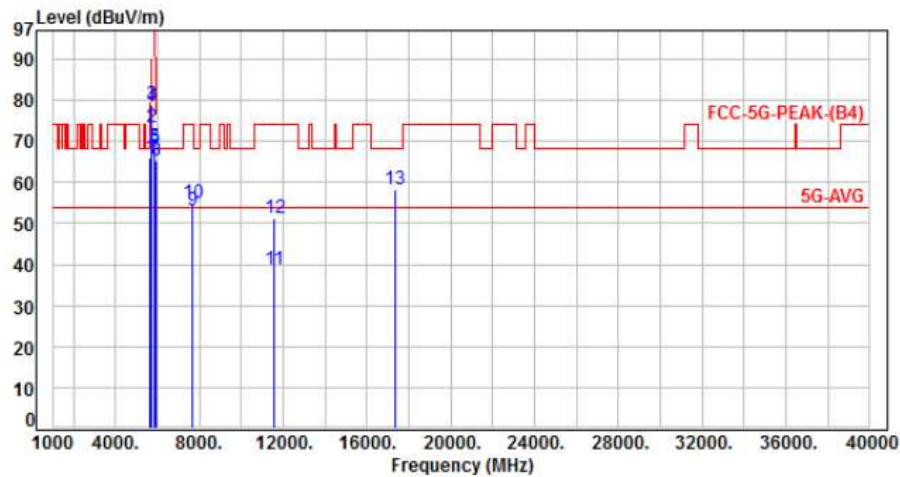


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	78.10	67.09	68.20	-1.11	Peak	220	343	P
2	5700.00	-11.12	93.30	82.18	105.20	-23.02	Peak	220	343	P
3	5720.00	-11.13	97.61	86.48	110.80	-24.32	Peak	220	343	P
4	5725.00	-11.13	98.81	87.68	122.20	-34.52	Peak	220	343	P
5	5850.00	-11.05	89.60	78.55	122.20	-43.65	Peak	220	343	P
6	5855.00	-11.03	91.65	80.62	110.80	-30.18	Peak	220	343	P
7	5875.00	-10.96	83.60	72.64	105.20	-32.56	Peak	220	343	P
8	5925.00	-10.87	77.54	66.67	68.20	-1.53	Peak	220	343	P
9	7700.00	-7.86	61.30	53.44	54.00	-0.56	Average	172	170	P
10	7700.00	-7.86	63.43	55.57	74.00	-18.43	Peak	172	170	P
11	11550.00	-3.84	44.67	40.83	54.00	-13.17	Average	161	164	P
12	11550.00	-3.84	57.80	53.96	74.00	-20.04	Peak	161	164	P
13	17325.00	5.25	46.57	51.82	68.20	-16.38	Peak	178	160	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 4, CH155		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-11.01	77.12	66.11	68.20	-2.09	Peak	212	274	P
2	5700.00	-11.12	84.56	73.44	105.20	-31.76	Peak	212	274	P
3	5720.00	-11.13	89.99	78.86	110.80	-31.94	Peak	212	274	P
4	5725.00	-11.13	89.52	78.39	122.20	-43.81	Peak	212	274	P
5	5850.00	-11.05	79.61	68.56	122.20	-53.64	Peak	212	274	P
6	5855.00	-11.03	79.26	68.23	110.80	-42.57	Peak	212	274	P
7	5875.00	-10.96	76.81	65.85	105.20	-39.35	Peak	212	274	P
8	5925.00	-10.87	76.25	65.38	68.20	-2.82	Peak	212	274	P
9	7700.00	-7.86	61.00	53.14	54.00	-0.86	Average	176	169	P
10	7700.00	-7.86	62.98	55.12	74.00	-18.88	Peak	176	169	P
11	11550.00	-3.84	42.51	38.67	54.00	-15.33	Average	185	204	P
12	11550.00	-3.84	55.20	51.36	74.00	-22.64	Peak	185	204	P
13	17325.00	5.25	53.10	58.35	68.20	-9.85	Peak	160	185	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



### 6.7. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



## 7. On Time, Duty Cycle and Measurement methods

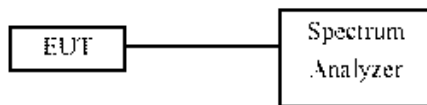
### 7.1. Test Limit

None; for reporting purposes only.

### 7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

### 7.3. Test Setup Layout



### 7.4. Test Result and Data

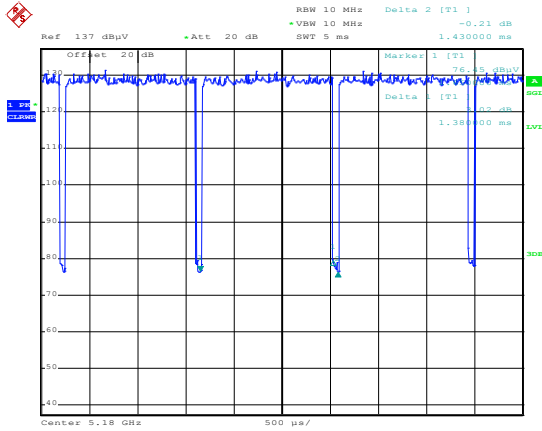
Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
802.11a,6M	1.38	1.43	96.50%
802.11ac VHT20	1.30	1.34	97.01%
802.11ac VHT40	0.56	0.70	79.43%
802.11ac VHT80	0.34	0.49	68.85%

### 7.5. Measurement Methods

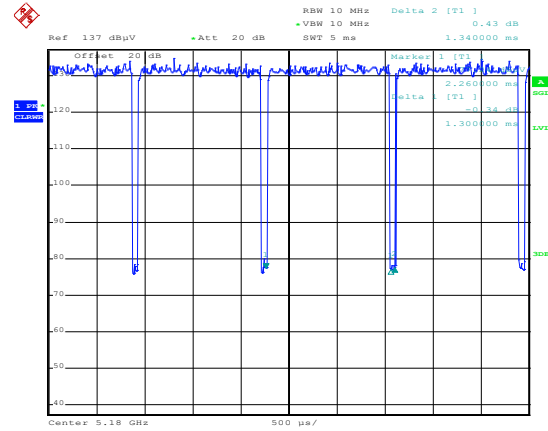
26 dB and 6dB Emission BW	KDB 789033 D02 v02r01, Section C
99% Occupied BW	KDB 789033 D02 v02r01, Section D
Conducted Output Power	KDB 789033 D02 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v02r01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 D02 v02r01, Sections G and H



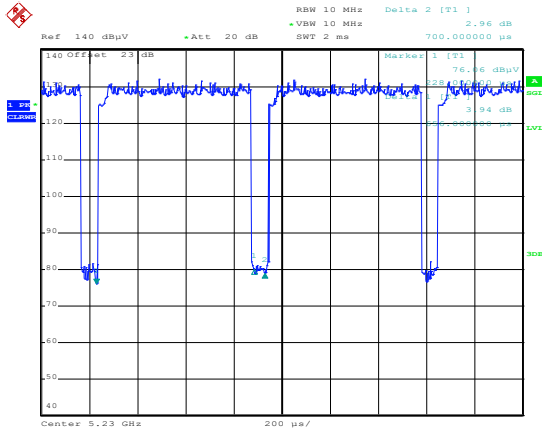
Modulation Type: 802.11a (6Mbps)



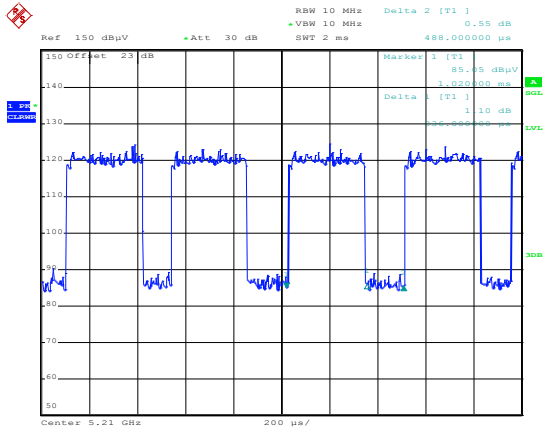
Modulation Type: 802.11ac VHT20 (6.5Mbps)



Modulation Type: 802.11ac VHT40 (13.5Mbps)



Modulation Type: 802.11ac VHT80 (29.3Mbps)





## 8. 6dB Bandwidth & 99% Occupied Bandwidth

### 8.1. Test Limit

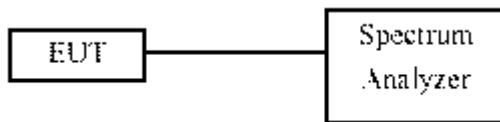
FCC §15.407

The minimum 6 dB bandwidth shall be at least 500 kHz.

### 8.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW >= 3 x RBW, peak detector and max hold.

### 8.3. Test Setup Layout



### 8.4. Test Result and Data (6dB Bandwidth)

#### In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)
			ANT A(J9)	ANT B(J10)	ANT C(J8)	
802.11a	149	5745	16.35	16.35	16.35	0.50
	157	5785	16.35	16.35	16.35	0.50
	165	5825	16.35	16.35	16.05	0.50
802.11ac VHT20	149	5745	17.55	17.55	17.55	0.50
	157	5785	17.55	17.60	17.55	0.50
	165	5825	16.90	17.55	17.55	0.50
802.11ac VHT40	151	5755	35.40	35.30	35.70	0.50
	159	5795	35.00	36.10	36.00	0.50
802.11ac VHT80	155	5775	75.20	<b>75.84</b>	75.20	0.50





### 8.5. Test Result and Data (99% Occupied Bandwidth)

#### In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)		
			ANT A(J9)	ANT B(J10)	ANT C(J8)
802.11a	149	5745	16.74	16.77	16.80
	157	5785	16.65	16.68	16.74
	165	5825	16.65	16.74	16.74
802.11ac VHT20	149	5745	17.82	17.85	17.91
	157	5785	17.79	17.85	17.91
	165	5825	18.00	17.97	17.91
802.11ac VHT40	151	5755	36.72	36.78	37.02
	159	5795	36.84	36.84	37.20
802.11ac VHT80	155	5775	75.48	<b>76.08</b>	75.96

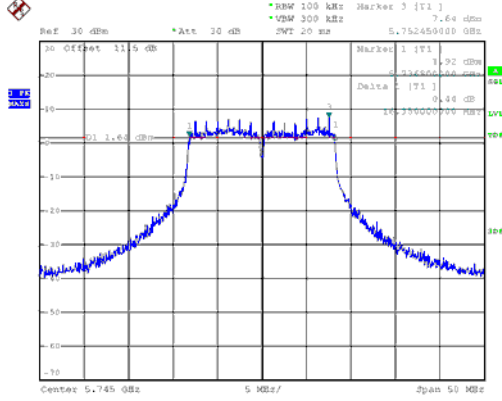


6dB Bandwidth

ANT A

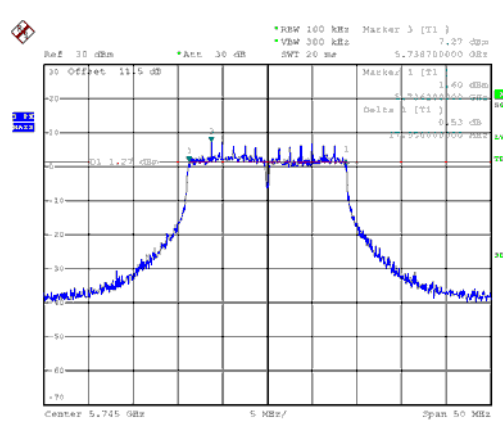
Modulation Type: 802.11a (6Mbps)

CH149

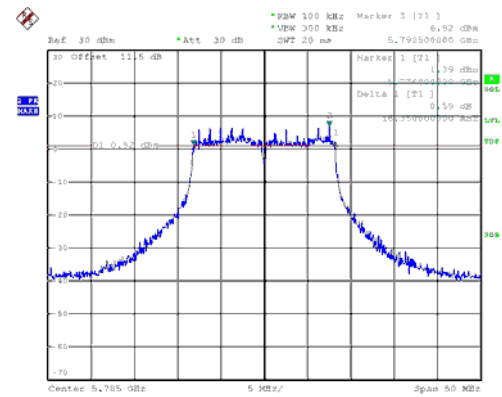


Modulation Type: 802.11ac, VHT20 (6.5Mbps)

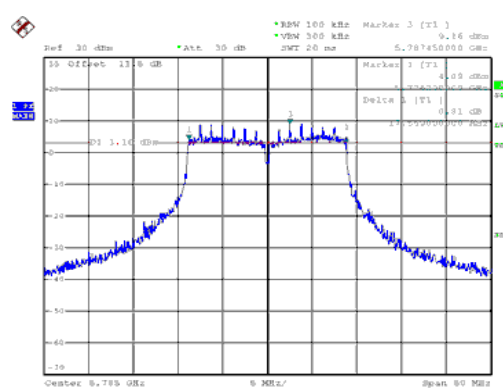
CH149



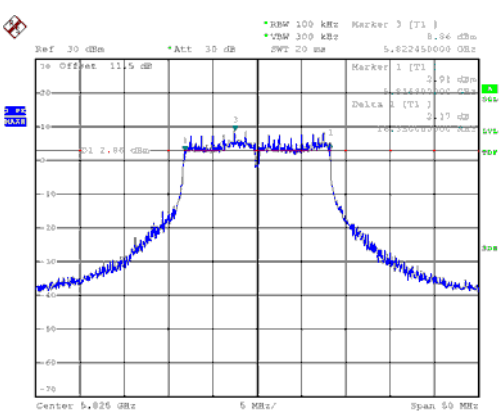
CH157



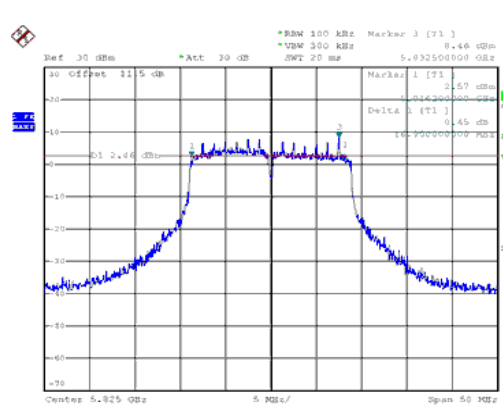
CH157



CH165

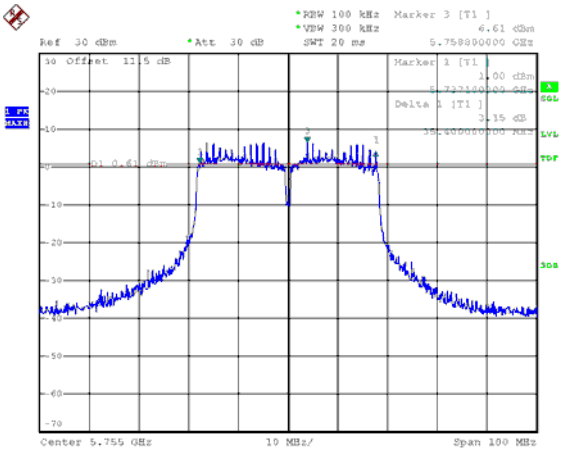


CH165

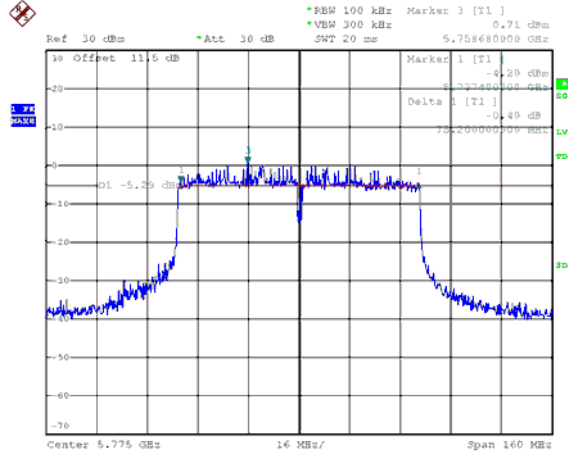




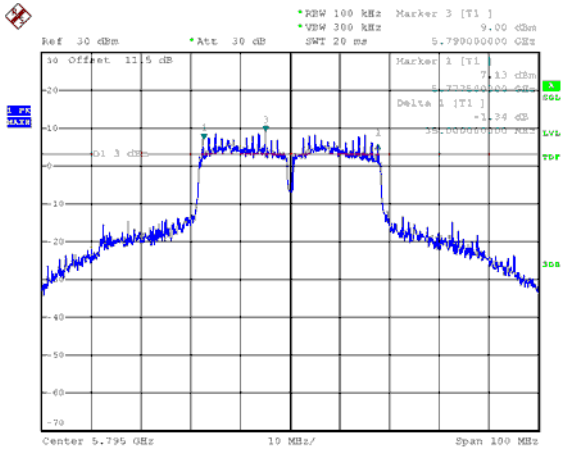
Modulation Type: 802.11ac, VHT40 (13.5Mbps)  
CH151



Modulation Type: 802.11ac, VHT80 (29.3Mbps)  
CH155

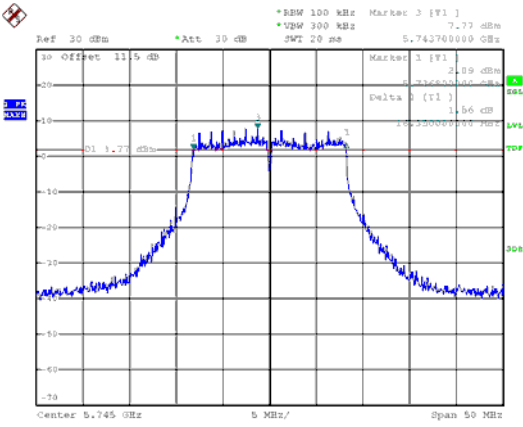


CH159

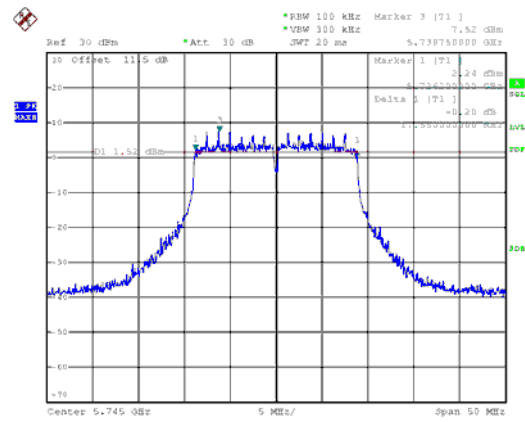




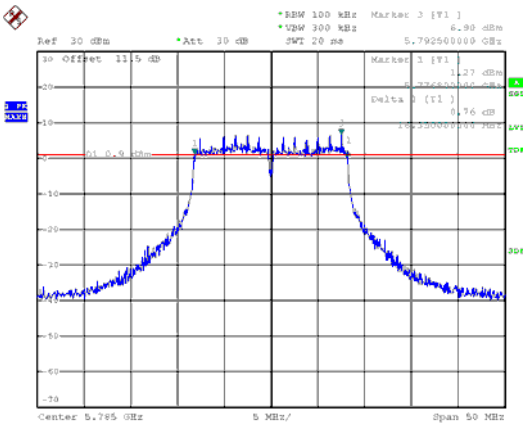
ANT B  
Modulation Type: 802.11a (6Mbps)  
CH149



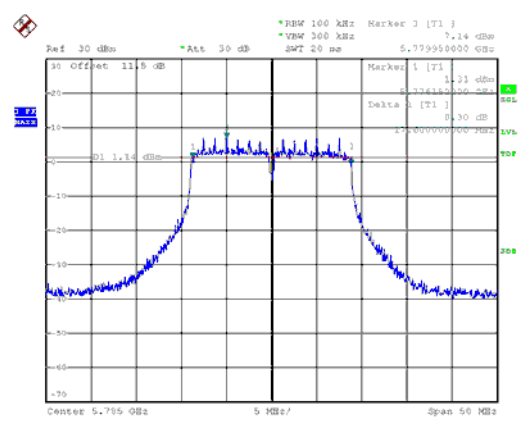
Modulation Type: 802.11ac, VHT20 (6.5Mbps)  
CH149



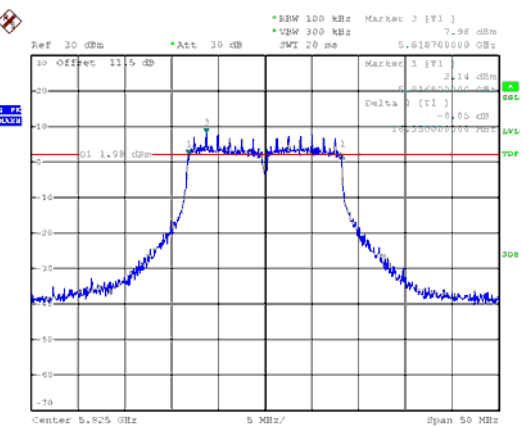
CH157



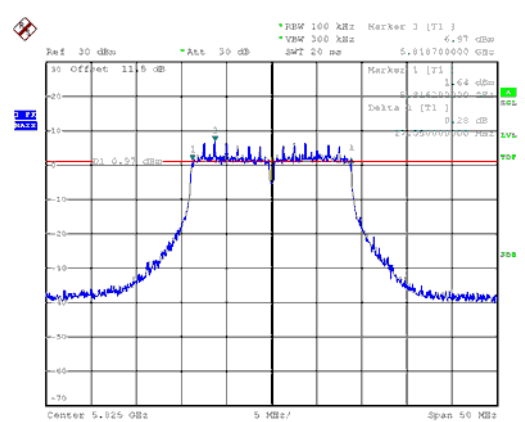
CH157



CH165

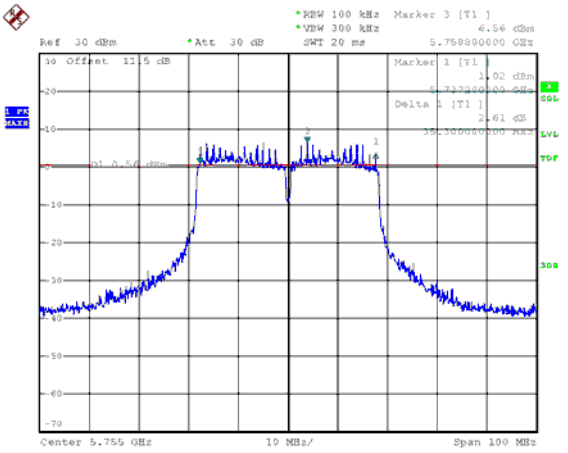


CH165

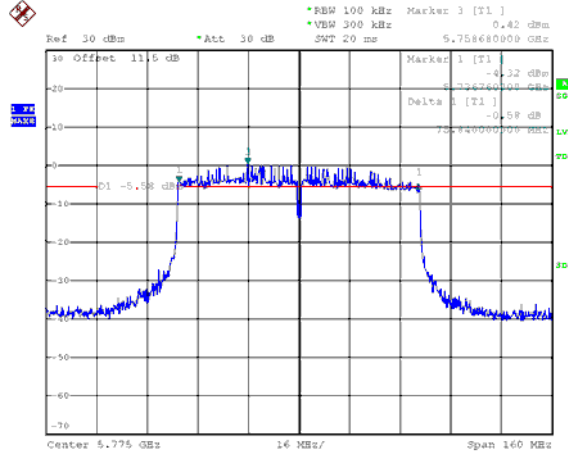




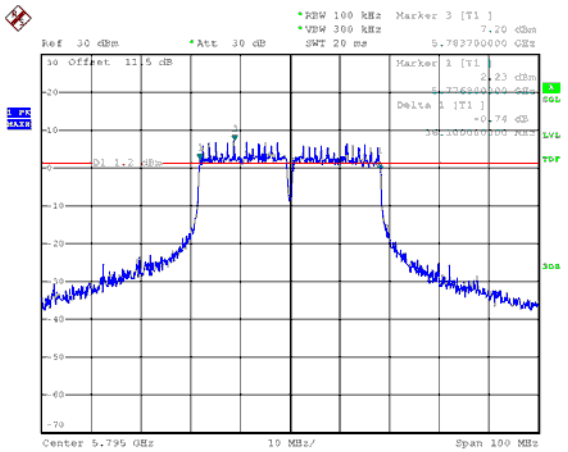
Modulation Type: 802.11ac, VHT40 (13.5Mbps)  
CH151



Modulation Type: 802.11ac, VHT80 (29.3Mbps)  
CH155

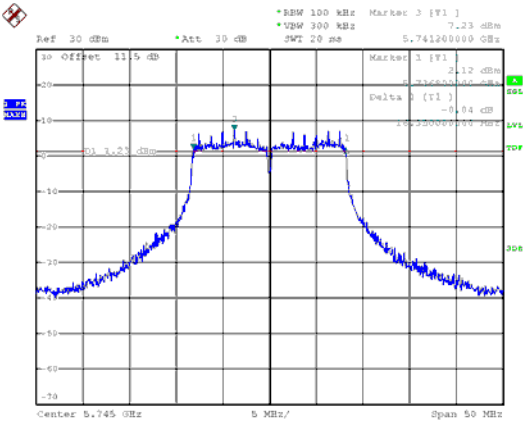


CH159

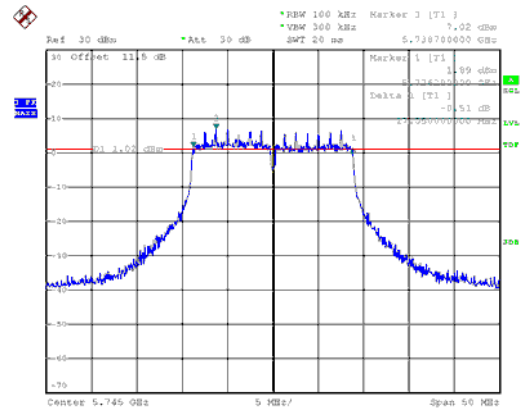




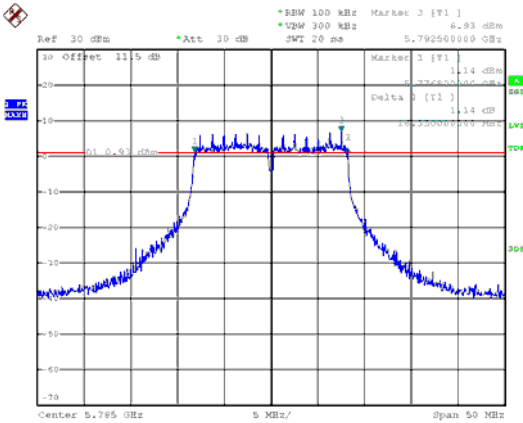
ANT C  
Modulation Type: 802.11a (6Mbps)  
CH149



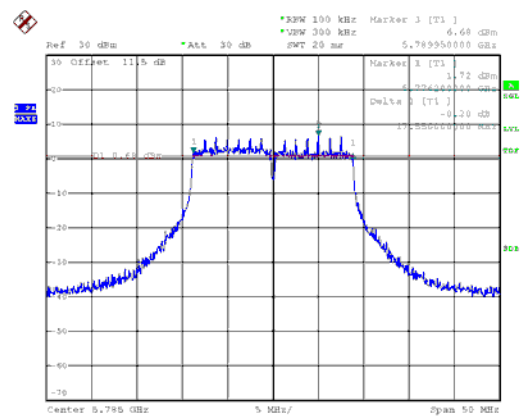
Modulation Type: 802.11ac, VHT20 (6.5Mbps)  
CH149



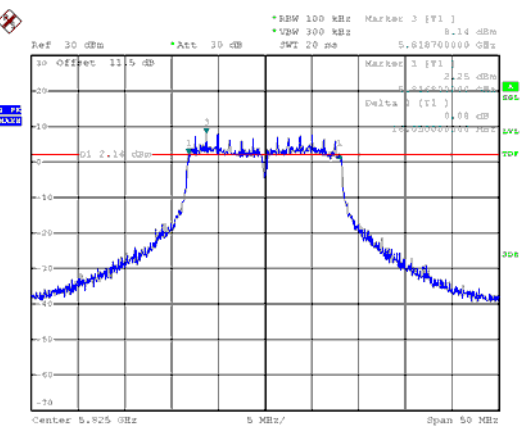
CH157



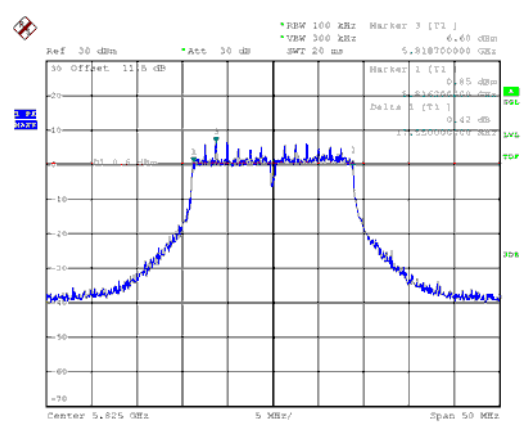
CH157



CH165

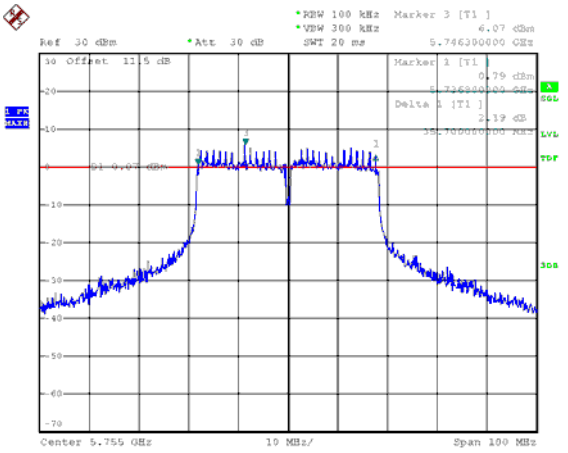


CH165

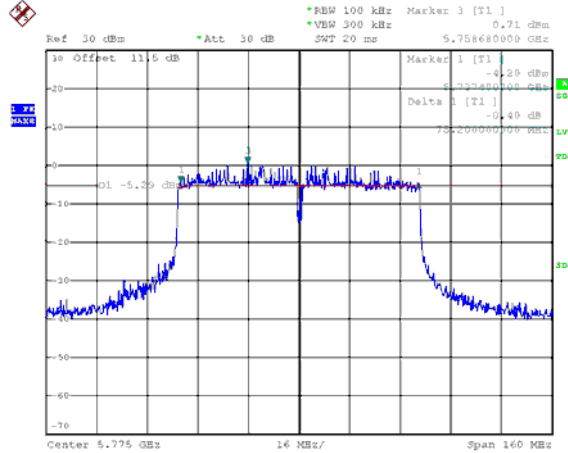




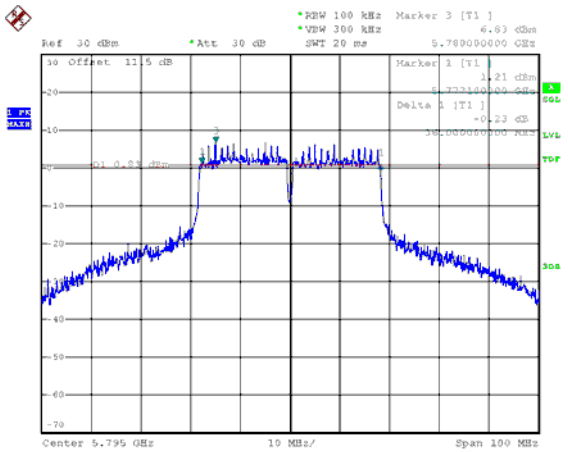
Modulation Type: 802.11ac, VHT40 (13.5Mbps)  
CH151



Modulation Type: 802.11ac, VHT80 (29.3Mbps)  
CH155

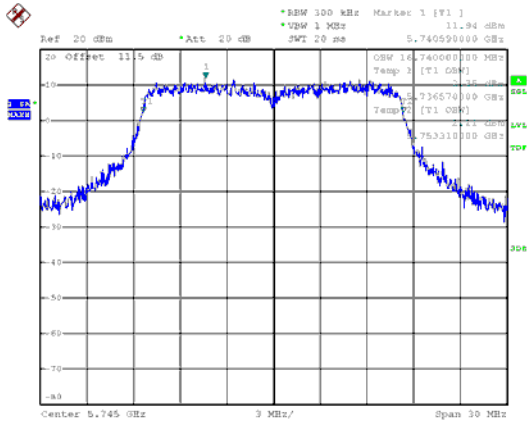


CH159

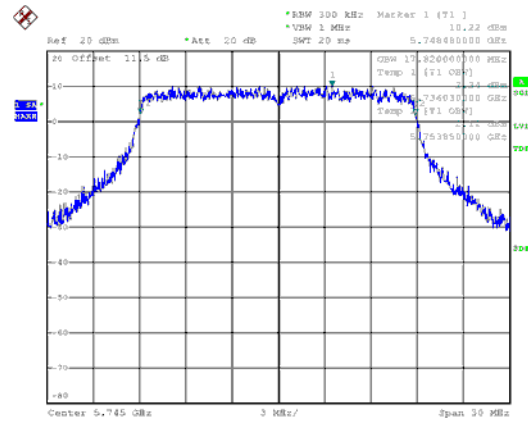




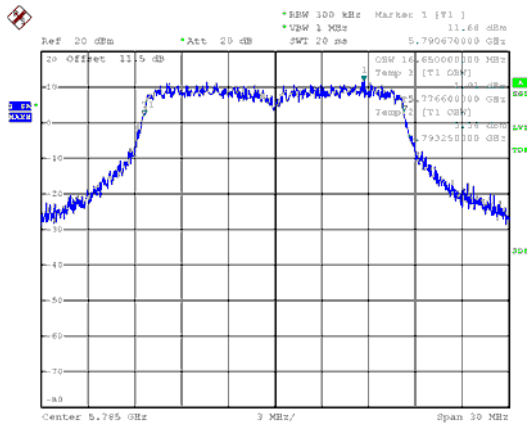
99% Occupied Bandwidth ANT A  
Modulation Type: 802.11a (6Mbps)  
CH149



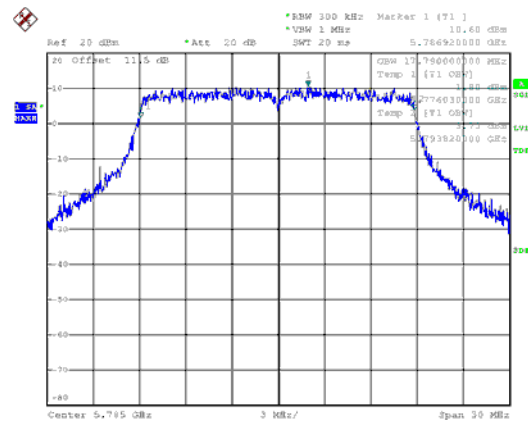
Modulation Type: 802.11ac, VHT20 (6.5Mbps)  
CH149



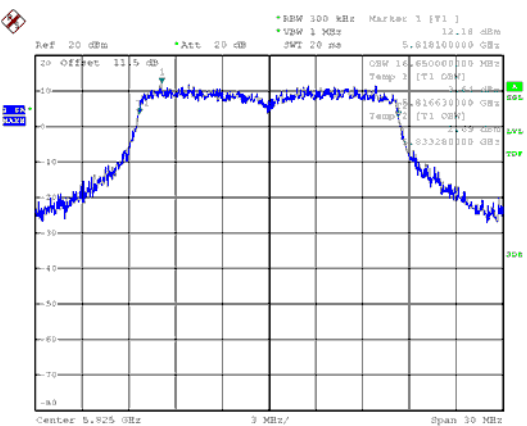
CH157



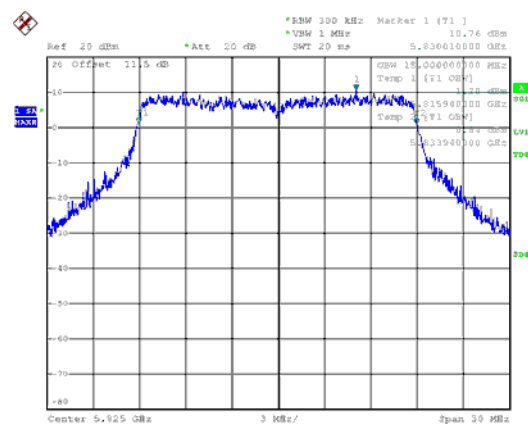
CH157



CH165



CH165

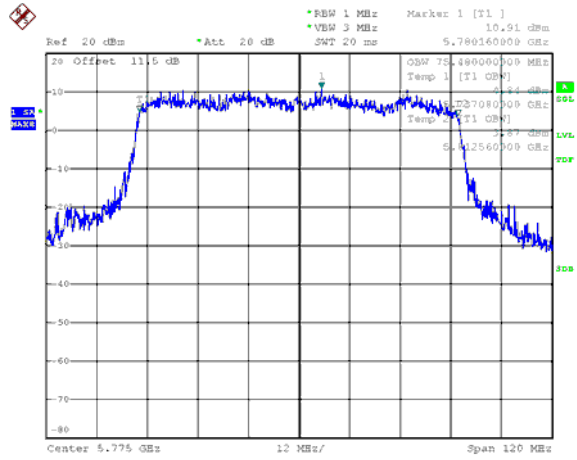
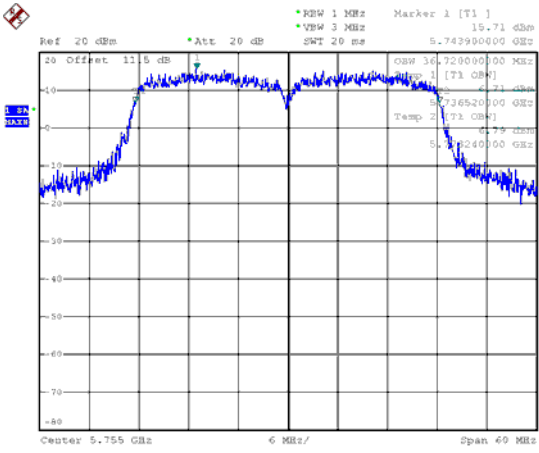




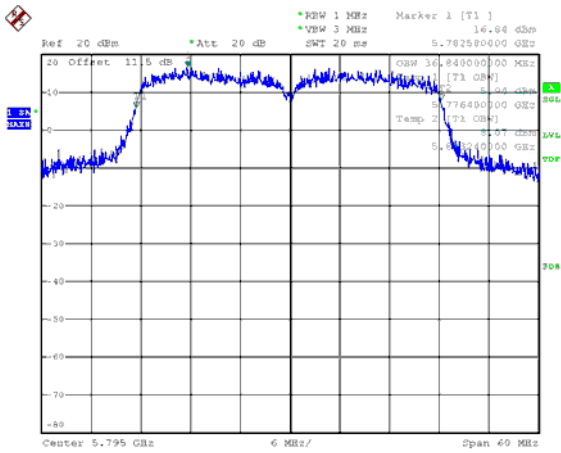


99% Occupied Bandwidth ANT A  
Modulation Type: 802.11ac, VHT40 (13.5Mbps)  
CH151

Modulation Type: 802.11ac, VHT80 (29.3Mbps)  
CH155



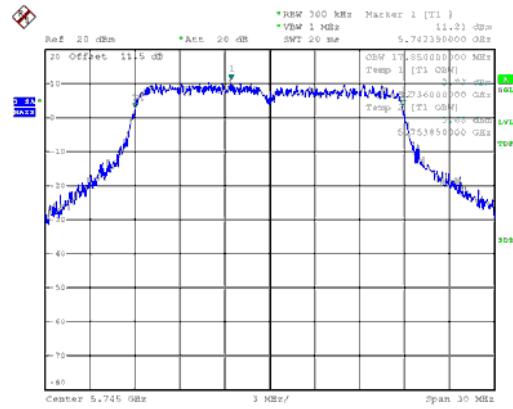
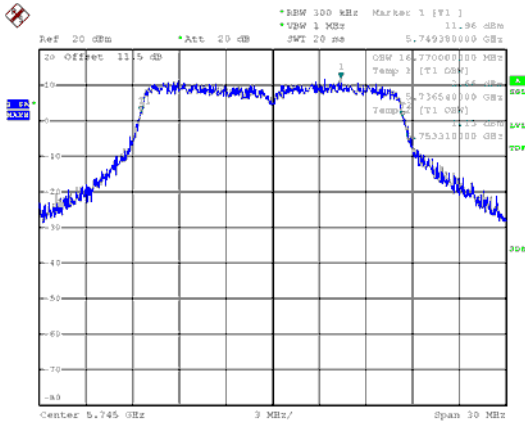
CH159





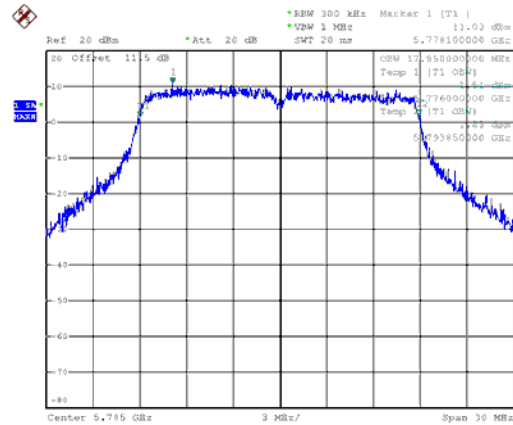
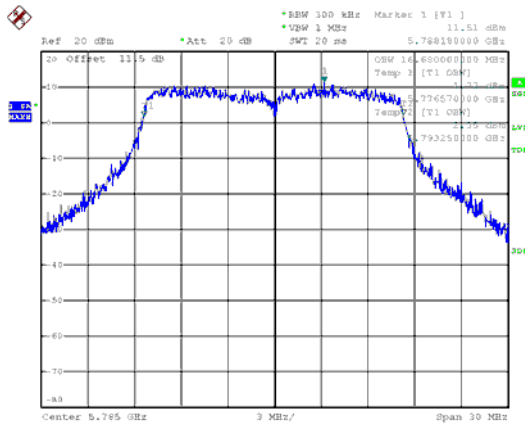
99% Occupied Bandwidth ANT B  
Modulation Type: 802.11a (6Mbps)  
CH149

Modulation Type: 802.11ac, VHT20 (6.5Mbps)  
CH149



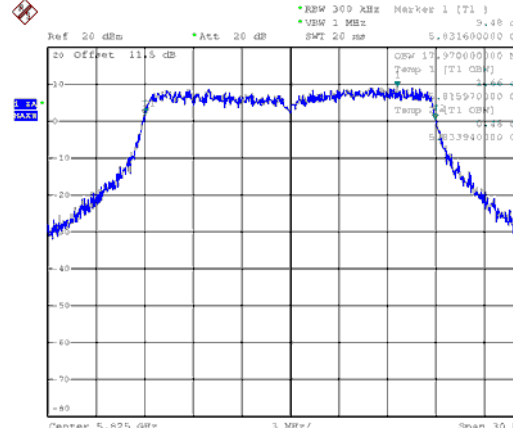
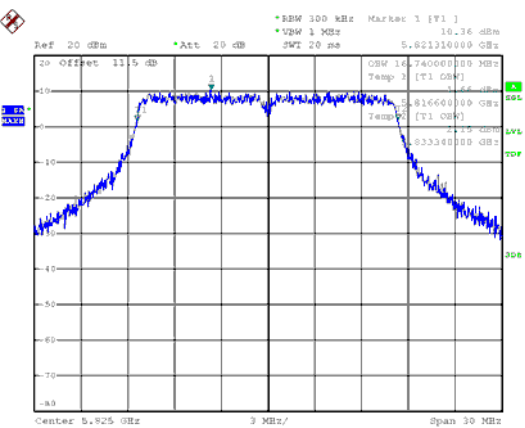
CH157

CH157



CH165

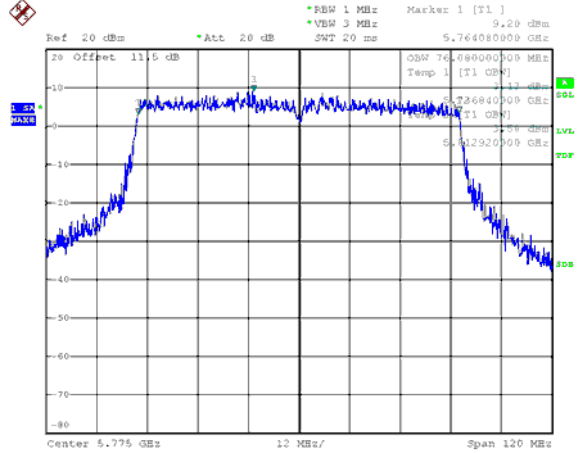
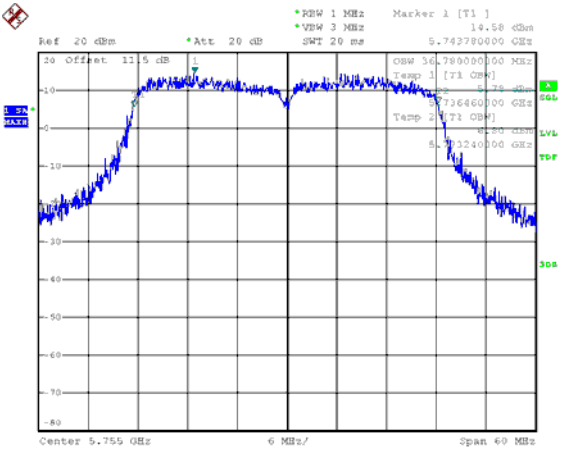
CH165



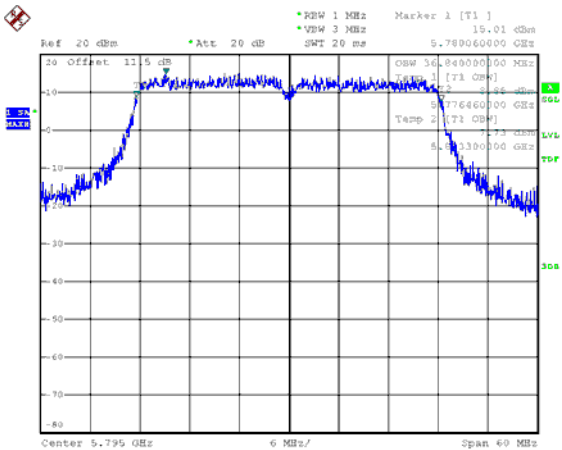


99% Occupied Bandwidth ANT B  
Modulation Type: 802.11ac, VHT40 (13.5Mbps)  
CH151

Modulation Type: 802.11ac, VHT80 (29.3Mbps)  
CH155



CH159









### 9. 26dB Bandwidth & 99% Occupied Bandwidth

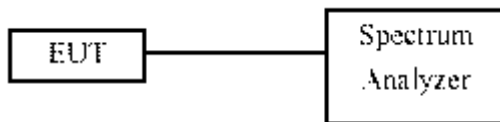
#### 9.1. Test Limit

None; for reporting purposes only.

#### 9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW >= 3 x RBW, peak detector and max hold.

#### 9.3. Test Setup Layout



#### 9.4. Test Result and Data (26dB Bandwidth)

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
			ANT A(J9)	ANT B(J10)	ANT C(J8)
802.11a	36	5180	21.27	21.27	21.57
	44	5220	21.00	21.48	21.63
	48	5240	21.12	21.03	21.36
802.11ac VHT20	36	5180	22.08	22.41	22.47
	44	5220	22.14	22.38	22.32
	48	5240	22.23	22.47	22.56
802.11ac VHT40	38	5190	44.52	43.68	45.24
	46	5230	44.22	44.82	45.24
802.11ac VHT80	42	5210	86.76	87.84	<b>88.44</b>



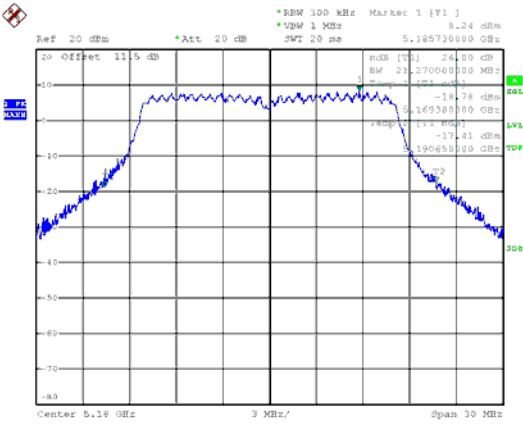
## 9.5. Test Result and Data (99% Occupied Bandwidth)

### In the 5.2G Band

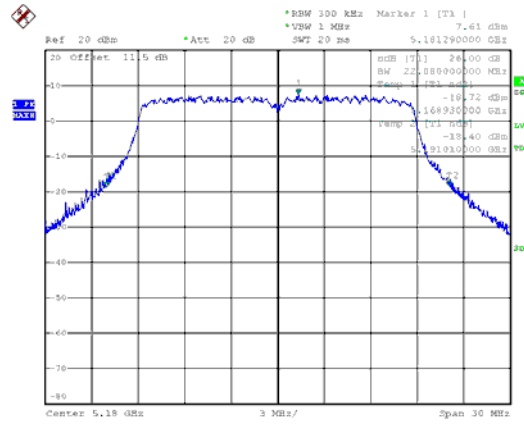
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)		
			ANT A(J9)	ANT B(J10)	ANT C(J8)
802.11a	36	5180	16.68	16.74	16.77
	44	5220	16.68	16.71	16.71
	48	5240	16.68	16.68	16.74
802.11ac VHT20	36	5180	17.85	17.88	17.91
	44	5220	17.85	17.85	17.94
	48	5240	17.85	17.88	17.88
802.11ac VHT40	38	5190	36.78	36.66	36.72
	46	5230	36.66	36.72	36.72
802.11ac VHT80	42	5210	75.84	<b>75.96</b>	75.84



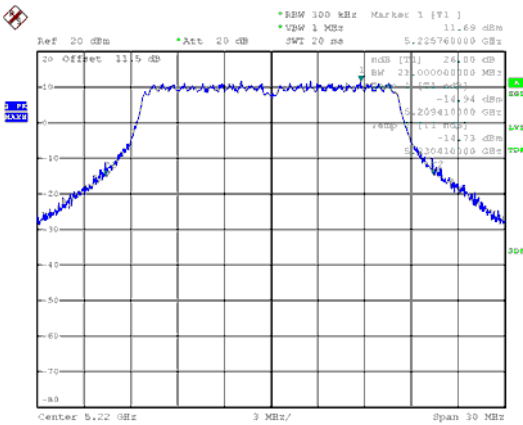
26dB Bandwidth Band 1, ANT A  
Modulation Type: 802.11a (6Mbps)  
CH36



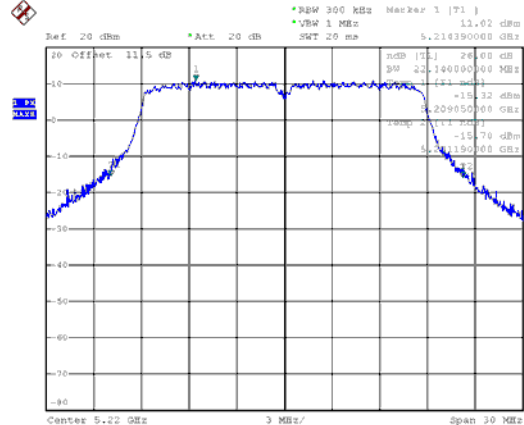
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



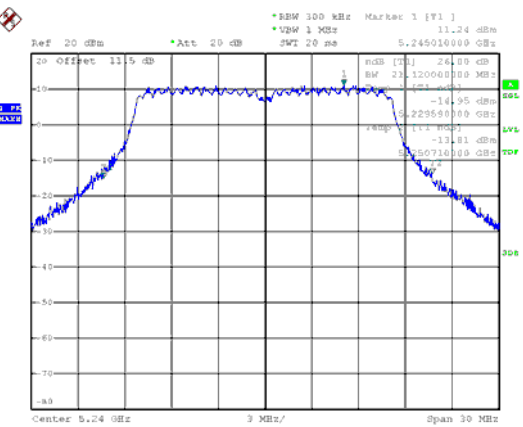
CH44



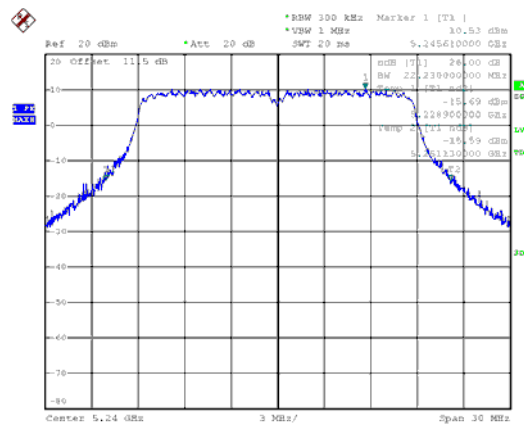
CH44



CH48



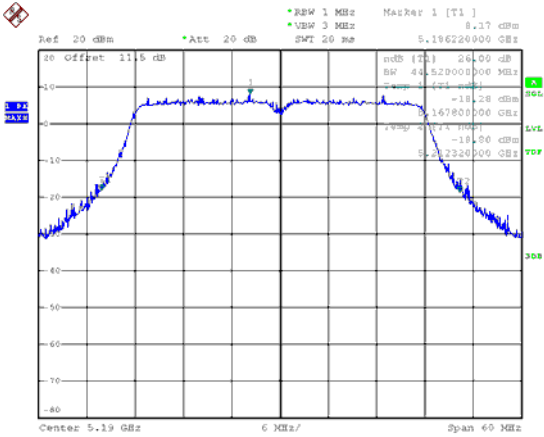
CH48



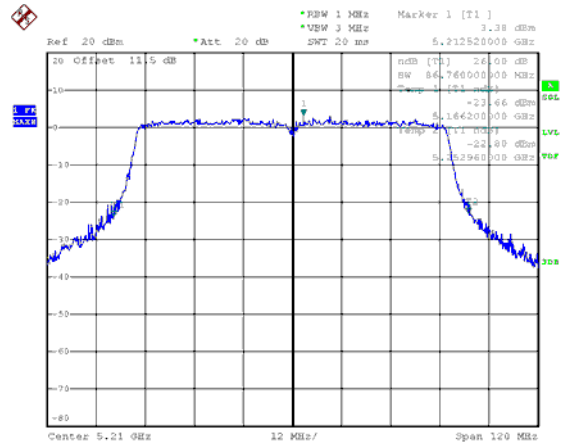




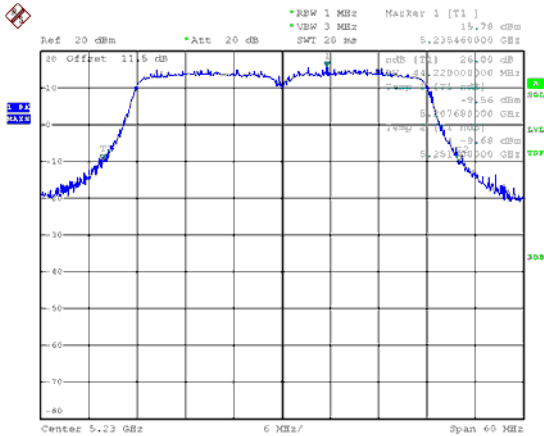
26dB Bandwidth Band 1, ANT A  
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42



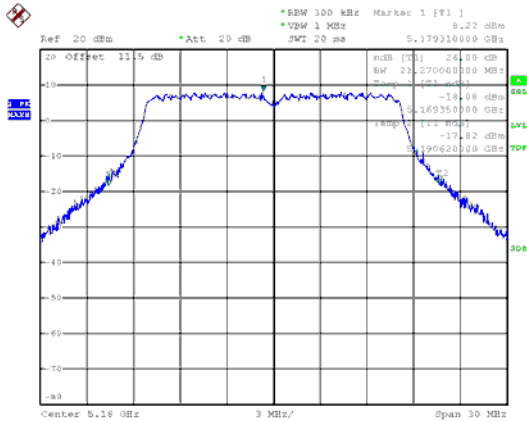
CH46



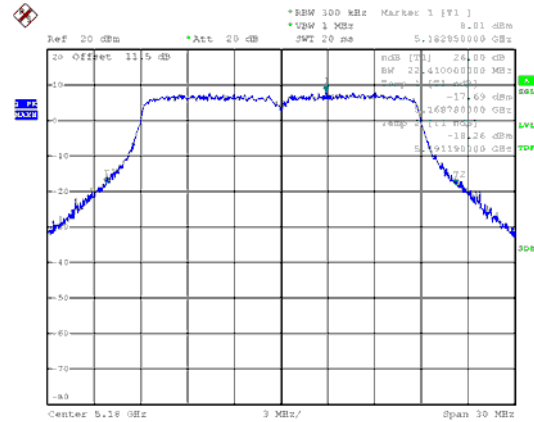


26dB Bandwidth Band 1, ANT B

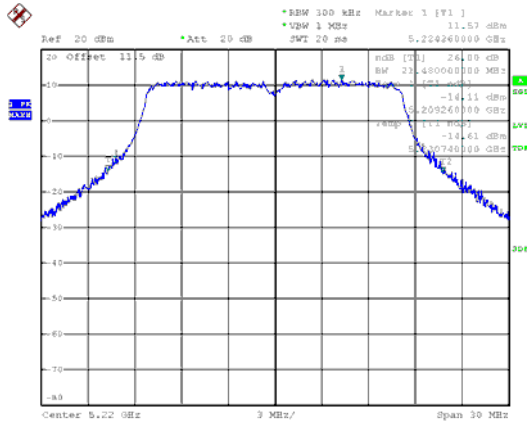
Modulation Type: 802.11a (6Mbps)  
CH36



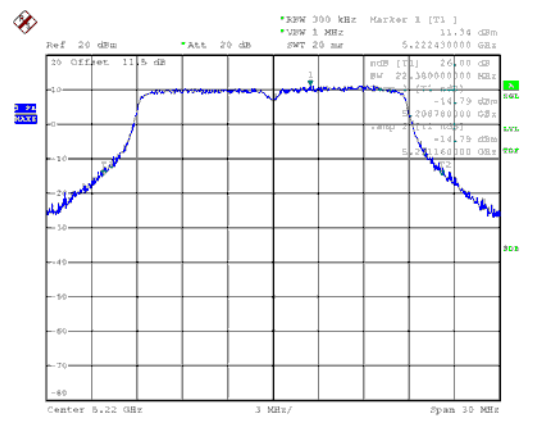
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



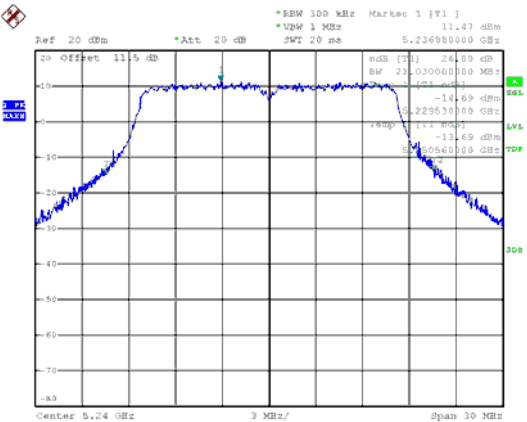
CH44



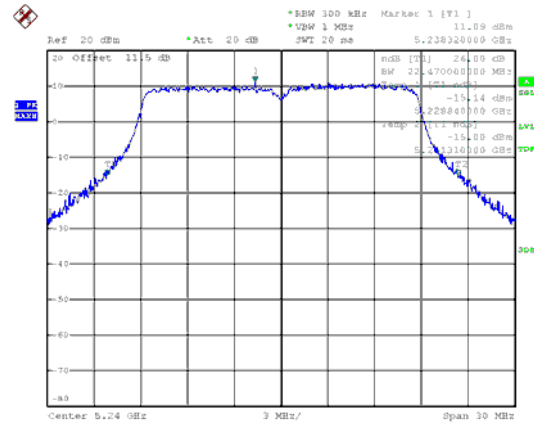
CH44



CH48



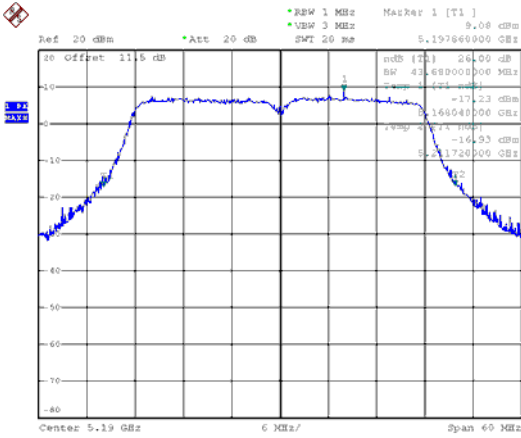
CH48



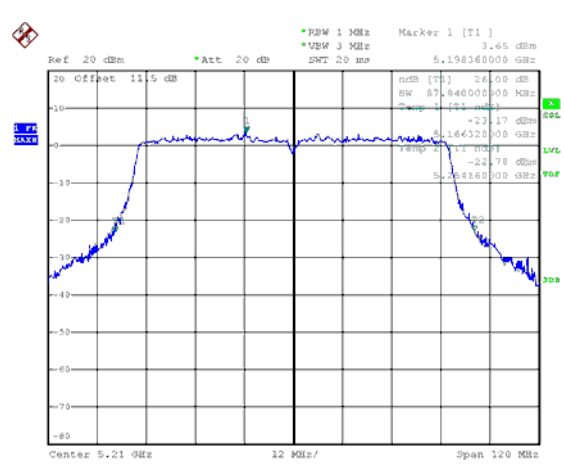


26dB Bandwidth Band 1, ANT B

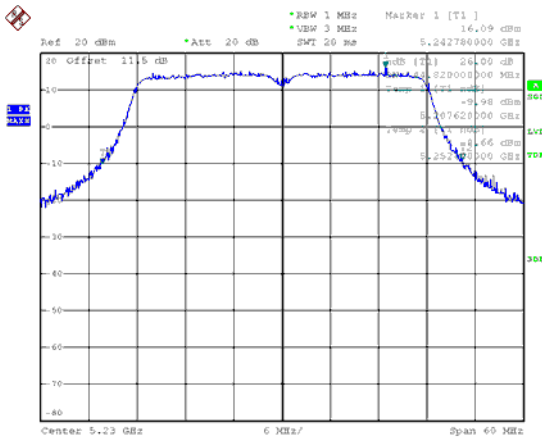
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42



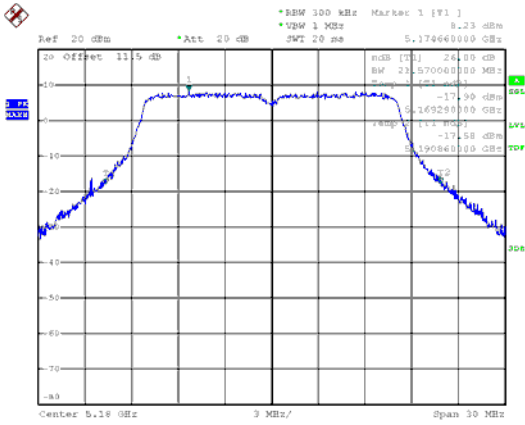
CH46



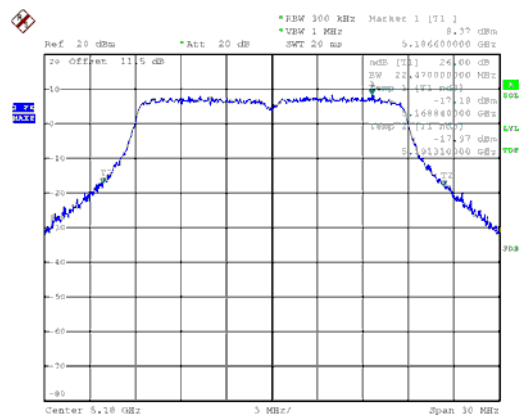


26dB Bandwidth Band 1, ANT C

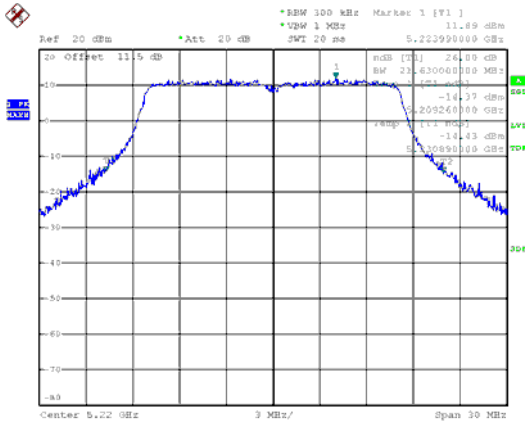
Modulation Type: 802.11a (6Mbps)  
CH36



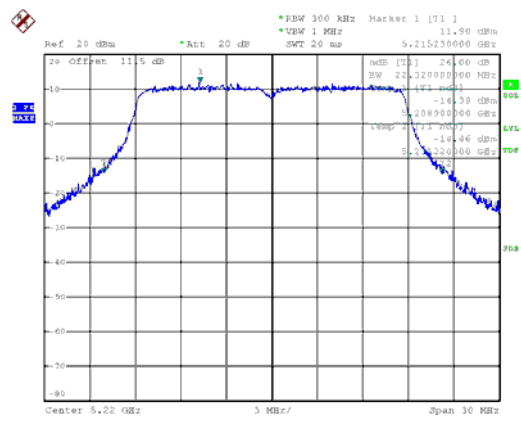
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



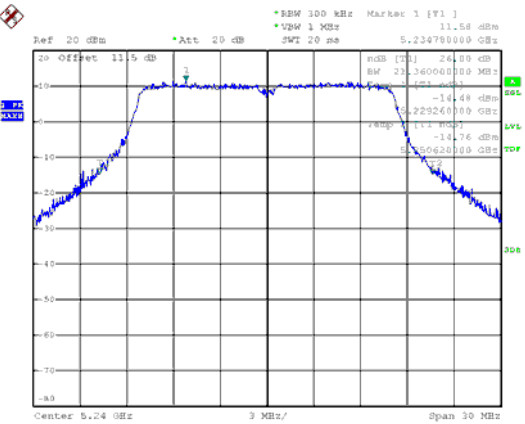
CH44



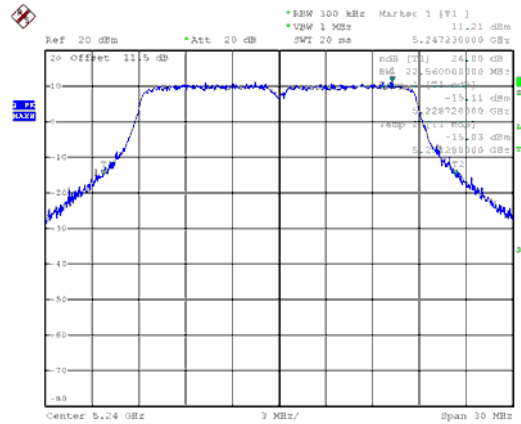
CH44



CH48



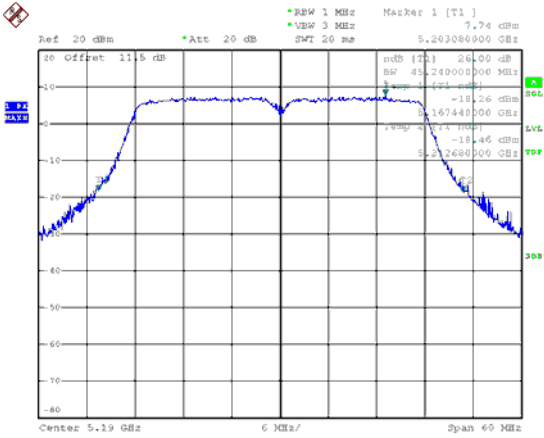
CH48



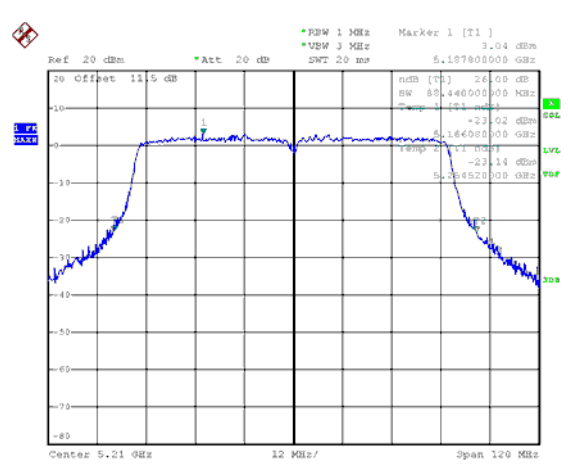


26dB Bandwidth Band 1, ANT C

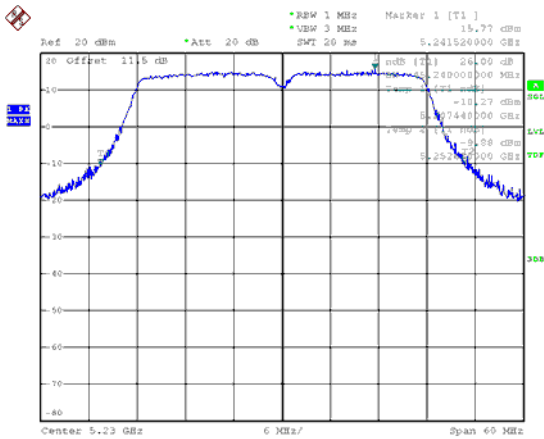
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42



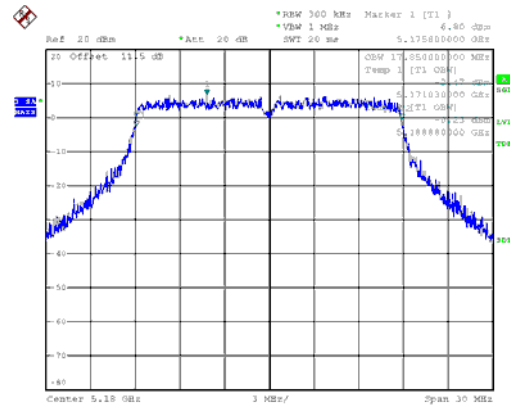
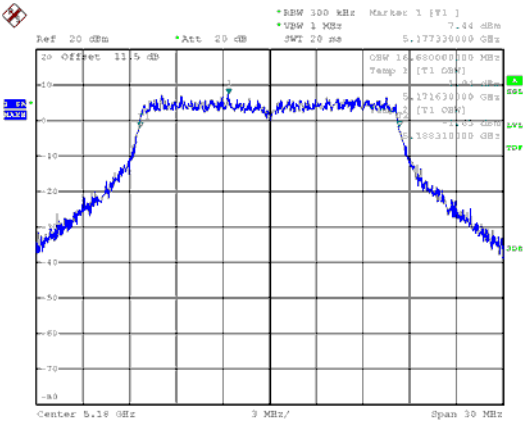
CH46





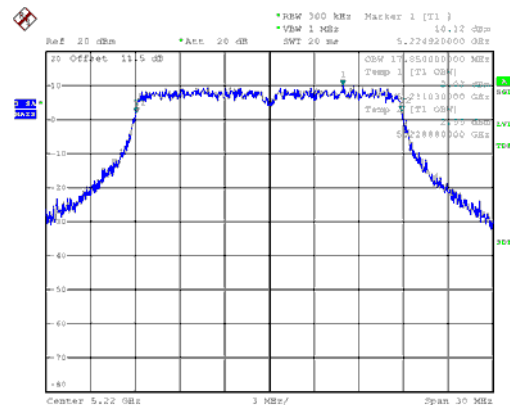
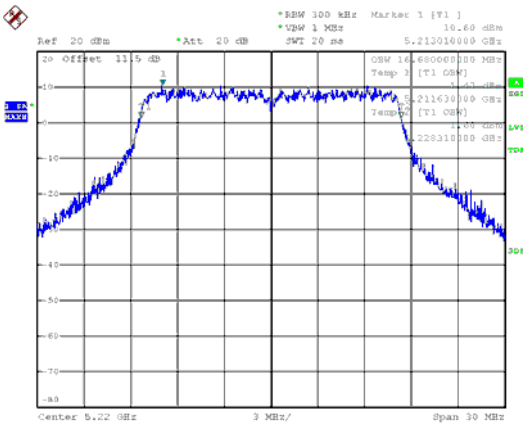
99% Bandwidth Band 1, ANT A  
Modulation Type: 802.11a (6Mbps)  
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



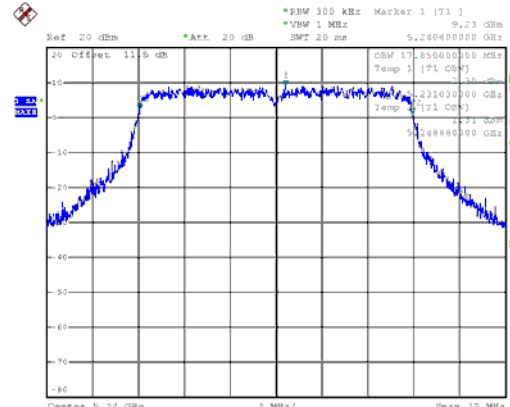
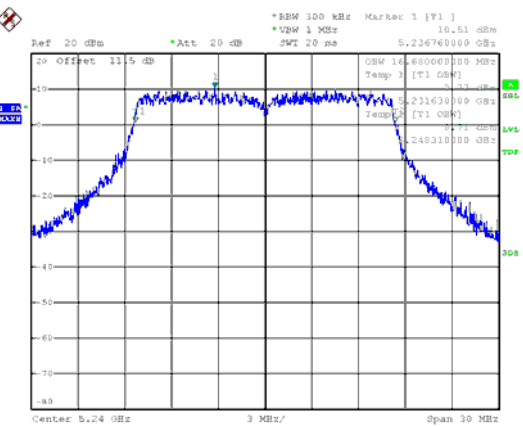
CH44

CH44



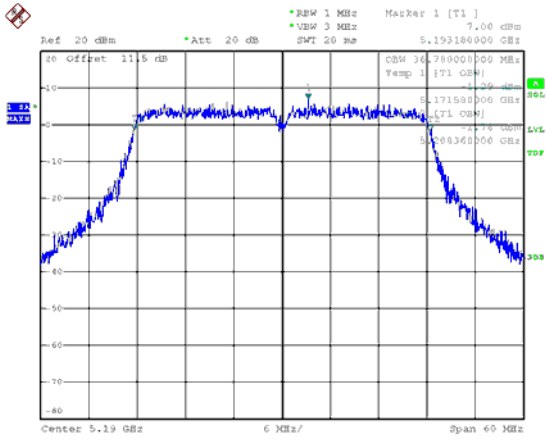
CH48

CH48

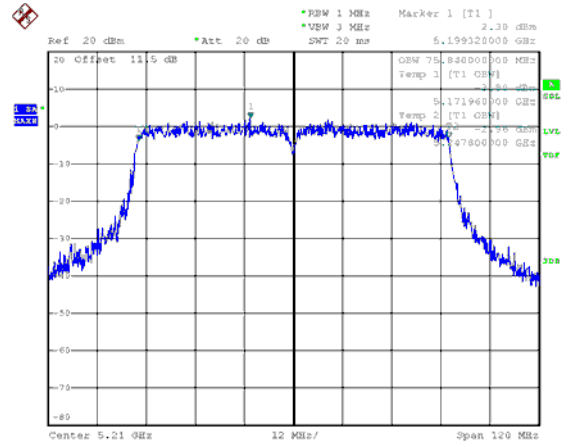




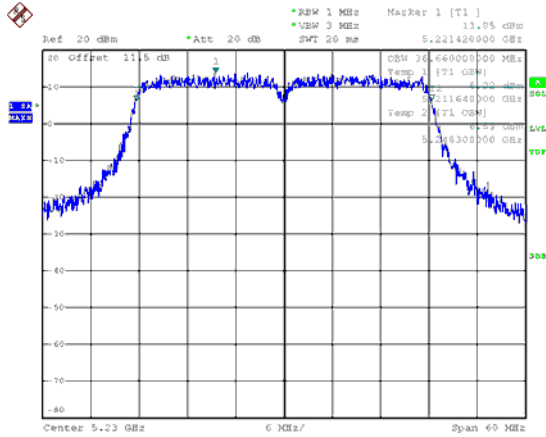
99% Bandwidth Band 1, ANT A  
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42



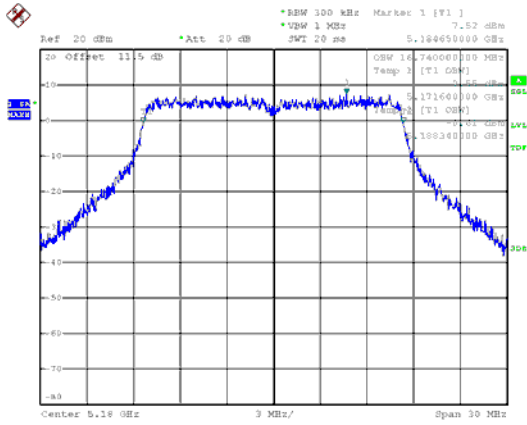
CH46



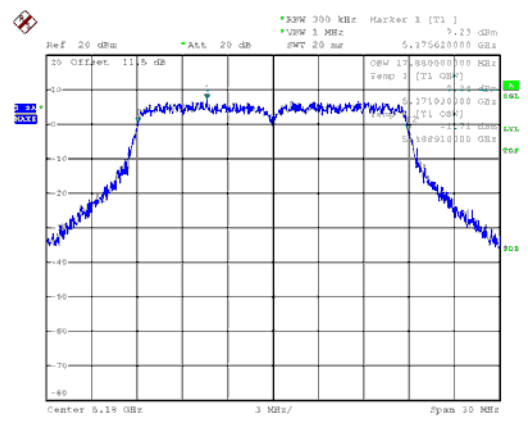


99% Bandwidth Band 1, ANT B

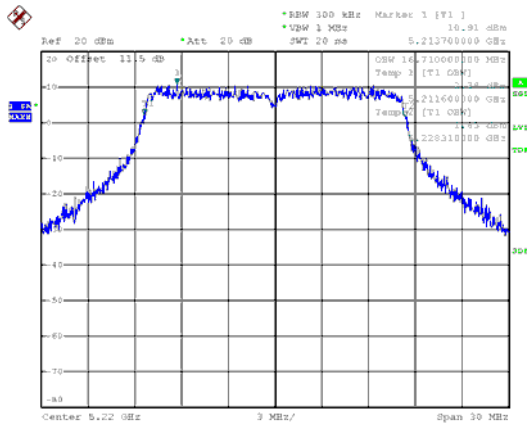
Modulation Type: 802.11a (6Mbps)  
CH36



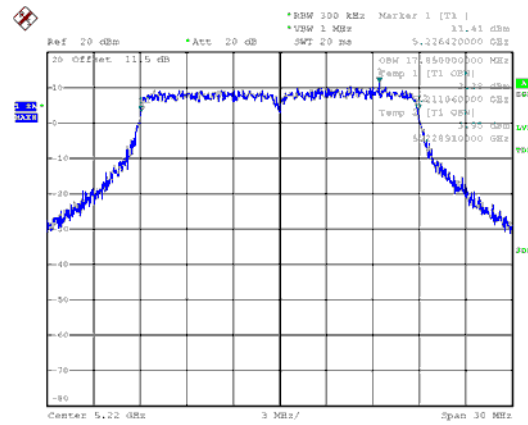
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



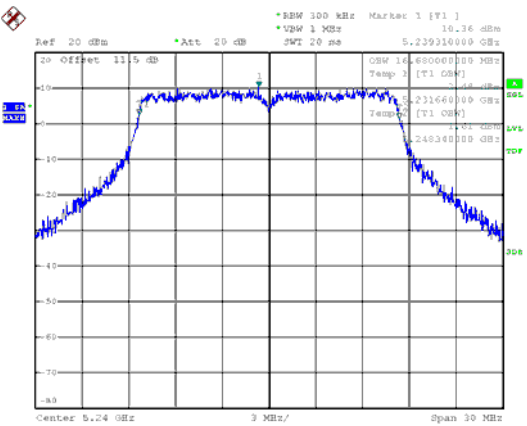
CH44



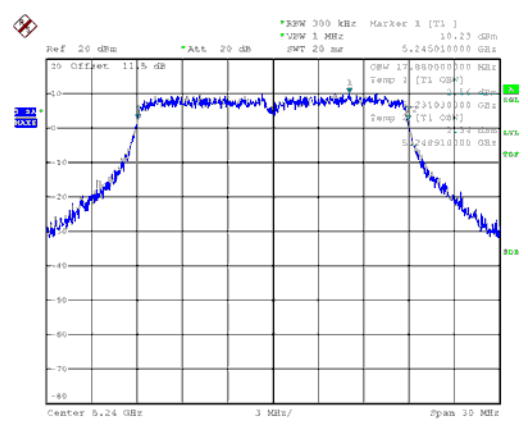
CH44



CH48



CH48

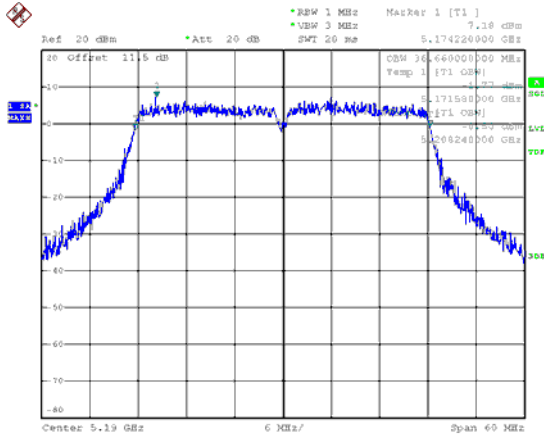




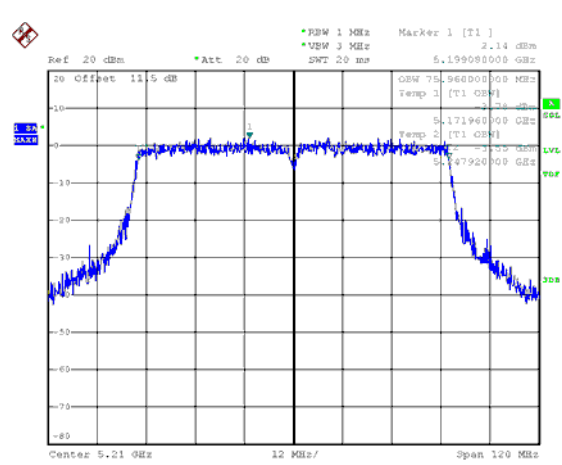


99% Bandwidth Band 1, ANT B

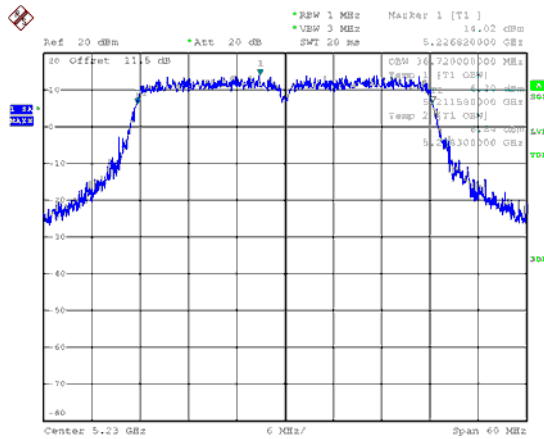
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42



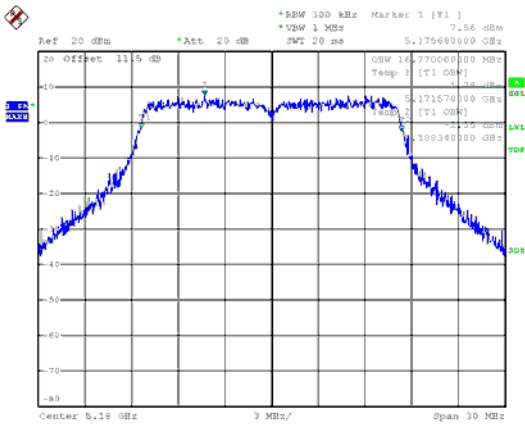
CH46



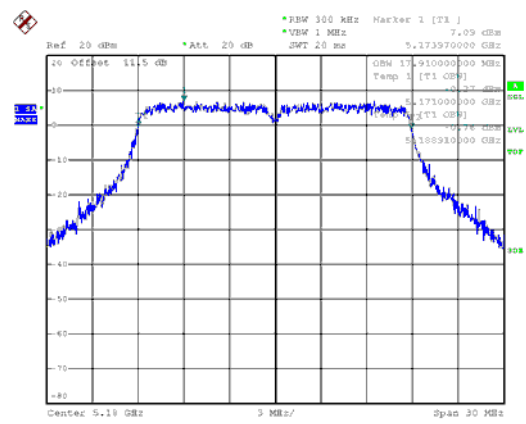


99% Bandwidth Band 1, ANT C

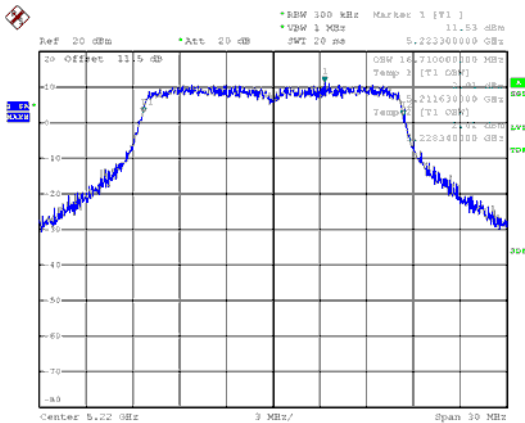
Modulation Type: 802.11a (6Mbps)  
CH36



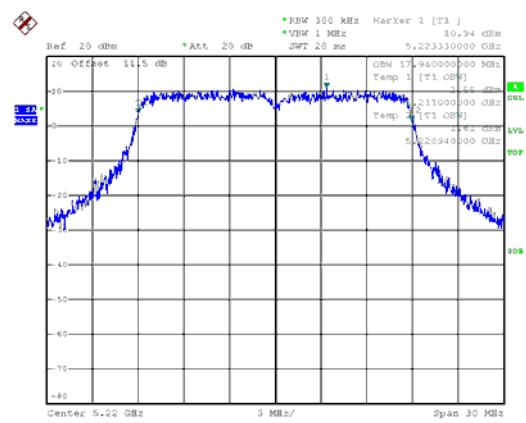
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



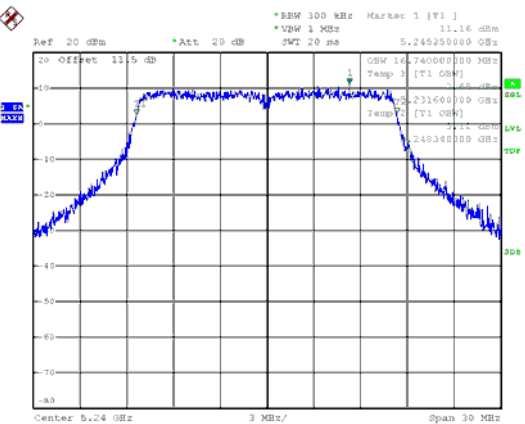
CH44



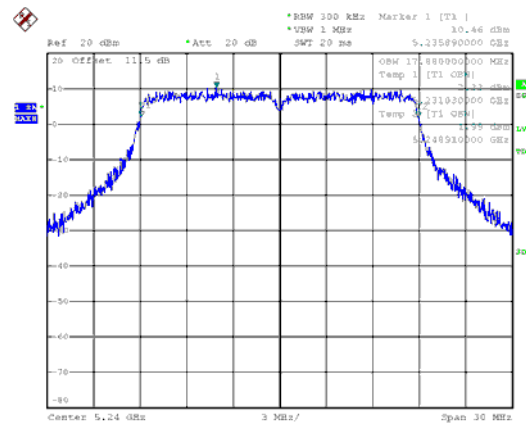
CH44



CH48



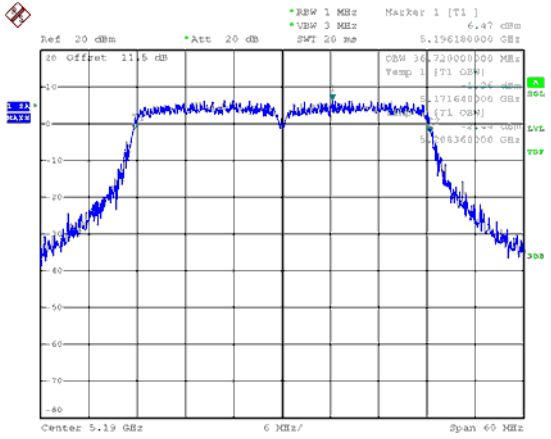
CH48



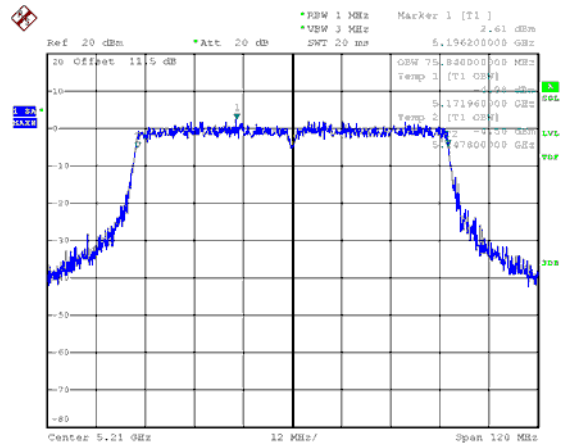


99% Bandwidth Band 1, ANT C

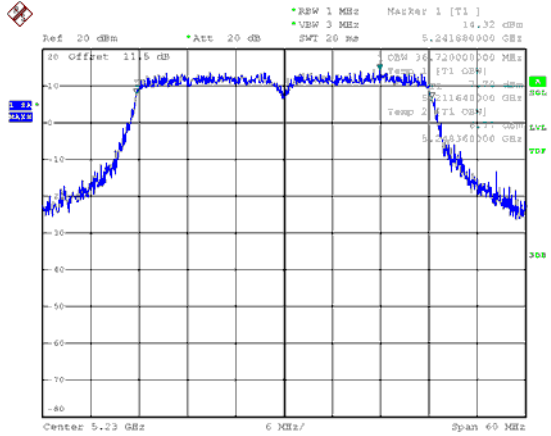
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42



CH46





## 10. Average Power

### 10.1. Test Limit

**Output Power:**

Frequency Band		Limit
<input checked="" type="checkbox"/>	5.15~5.25GHz	
Operating Mode		
<input type="checkbox"/>	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. 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. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed 125 mW (21 dBm).
<input checked="" type="checkbox"/>	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. 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.
<input type="checkbox"/>	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
<input type="checkbox"/>	client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. 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.

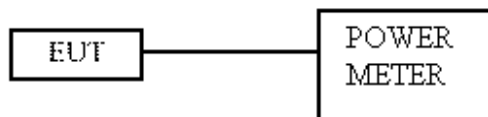


Frequency Band		Limit
<input type="checkbox"/>	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater 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.
<input type="checkbox"/>	5.470-5.725 GHz	
<input checked="" type="checkbox"/>	5.725~5.85 GHz	

### 10.2. Test Procedure

The transmitter output is connected to a power meter.  
The cable assembly insertion loss of 11.5 dB (including 10 dB pad and 1.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

### 10.3. Test Setup Layout





## 10.4. Test Result and Data

### In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	Avg Power Output (dBm)			Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A(J9)	ANT B(J10)	ANT C(J8)			
802.11a	36	5180	16.23	17.05	17.21	21.62	145.277	30.00
	44	5220	19.41	20.16	20.42	24.79	301.204	30.00
	48	5240	18.77	19.09	19.78	24.01	251.492	30.00
802.11an HT20	36	5180	15.99	16.84	16.87	21.36	136.666	30.00
	44	5220	19.15	19.89	20.12	24.51	282.525	30.00
	48	5240	18.65	18.97	19.69	23.90	245.279	30.00
802.11an HT40	38	5190	12.42	13.20	13.16	17.71	59.053	30.00
	46	5230	19.97	20.32	20.53	25.05	319.938	30.00
802.11ac VHT20	36	5180	16.19	17.04	17.08	21.56	143.224	30.00
	44	5220	19.37	20.11	20.37	24.74	297.955	30.00
	48	5240	18.85	19.23	19.91	24.12	258.438	30.00
802.11ac VHT40	38	5190	12.65	13.41	13.38	17.93	62.113	30.00
	46	5230	20.18	20.55	20.77	25.28	337.132	30.00
802.11ac VHT80	42	5210	11.32	11.96	12.14	16.59	45.624	30.00

### In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	Avg Power Output (dBm)			Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A(J9)	ANT B(J10)	ANT C(J8)			
802.11a	149	5745	20.06	20.81	21.26	25.51	355.554	30.00
	157	5785	19.75	19.71	20.15	24.65	291.461	30.00
	165	5825	20.16	19.88	20.42	24.93	311.181	30.00
802.11an HT20	149	5745	19.46	19.96	20.63	24.81	303.002	30.00
	157	5785	19.77	19.41	20.12	24.55	284.941	30.00
	165	5825	18.60	18.62	19.35	23.64	231.321	30.00
802.11an HT40	151	5755	21.20	20.62	19.90	25.38	344.895	30.00
	159	5795	22.01	21.98	22.29	26.87	486.050	30.00
802.11ac VHT20	149	5745	19.66	20.16	20.73	24.98	314.527	30.00
	157	5785	19.87	19.61	20.22	24.68	293.659	30.00
	165	5825	18.80	18.85	19.45	23.81	240.699	30.00
802.11ac VHT40	151	5755	21.40	20.82	20.00	25.55	358.820	30.00
	159	5795	22.21	22.18	22.49	<b>27.07</b>	508.956	30.00
802.11ac VHT80	155	5775	19.40	18.93	18.20	23.64	231.328	30.00



### 11. Power Spectral Density

#### 11.1. Test Limit

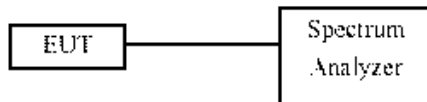
PSD:

Frequency Band		Limit
<input checked="" type="checkbox"/>	5.15~5.25GHz	
	Operating Mode	
<input type="checkbox"/>	Outdoor access point	17 dBm/MHz
<input checked="" type="checkbox"/>	Indoor access point	17 dBm/MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm/MHz
<input type="checkbox"/>	Mobile and portable client devices	11 dBm/MHz
<input type="checkbox"/>	5.725~5.85 GHz	11 dBm/MHz
<input type="checkbox"/>	5.470-5.725 GHz	11 dBm/MHz
<input checked="" type="checkbox"/>	5.725~5.85 GHz	30 dBm/500kHz

#### 11.2. Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

#### 11.3. Test Setup Layout



**11.4. Test Result and Data****In the 5.2G Band**

Modulation Type	CH	Freq. (MHz)	Meas PSD (dBm/MHz)			Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A(J9)	ANT B(J10)	ANT C(J8)				
802.11a	36	5180	4.40	4.74	4.96	9.48	0.15	9.63	13.23
	44	5220	7.67	8.10	8.73	12.96	0.15	13.11	13.23
	48	5240	7.30	7.79	8.63	12.71	0.15	12.86	13.23
802.11ac VHT20	36	5180	4.14	4.54	4.90	9.31	0.13	9.44	13.23
	44	5220	7.62	7.99	8.53	12.83	0.13	12.96	13.23
	48	5240	7.03	7.64	8.69	12.61	0.13	12.74	13.23
802.11ac VHT40	38	5190	-2.78	-2.35	-1.91	2.44	1.00	3.44	13.23
	46	5230	5.33	5.56	5.96	10.40	1.00	11.40	13.23
802.11ac VHT80	42	5210	-7.81	-7.60	-7.46	-2.85	1.62	-1.23	13.23

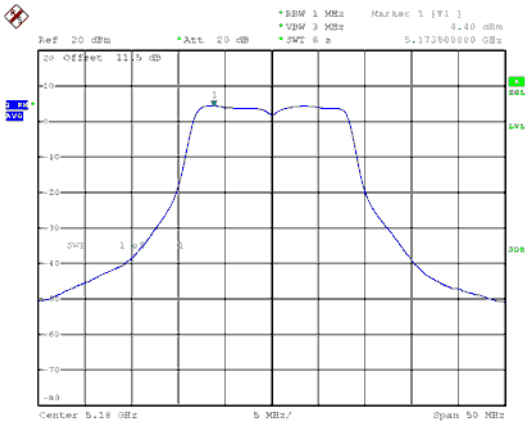
**In the 5.8G Band**

Modulation Type	CH	Freq. (MHz)	Meas PSD (dBm/MHz)			Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz/RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A(J9)	ANT B(J10)	ANT C(J8)					
802.11a	149	5745	8.66	8.70	8.95	13.54	0.15	-3.01	10.68	26.23
	157	5785	8.44	8.13	8.37	13.09	0.15	-3.01	10.23	26.23
	165	5825	8.99	7.58	8.58	13.19	0.15	-3.01	10.33	26.23
802.11ac VHT20	149	5745	7.42	7.92	8.31	12.67	0.13	-3.01	9.79	26.23
	157	5785	7.94	7.81	8.30	12.79	0.13	-3.01	9.91	26.23
	165	5825	7.20	6.83	7.55	11.97	0.13	-3.01	9.09	26.23
802.11ac VHT40	155	5755	4.27	4.63	4.28	9.17	1.00	-3.01	7.16	26.23
	159	5795	5.72	6.37	5.75	10.73	1.00	-3.01	8.72	26.23
802.11ac VHT80	155	5775	0.98	-0.22	-0.75	4.84	1.62	-3.01	3.45	26.23

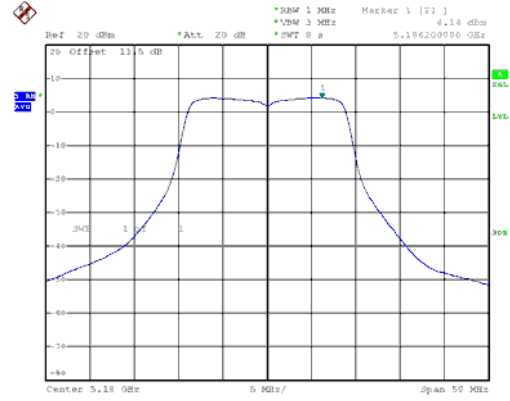




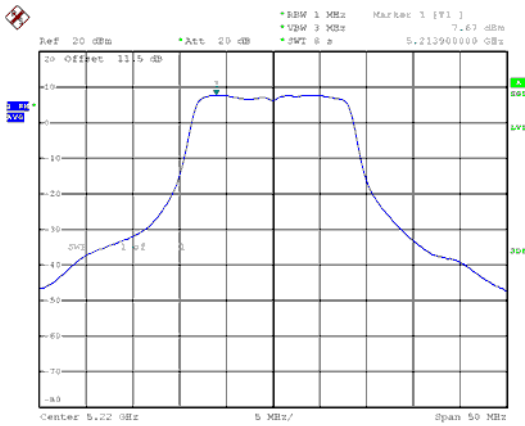
Band 1, ANT A  
Modulation Type: 802.11a (6Mbps)  
CH36



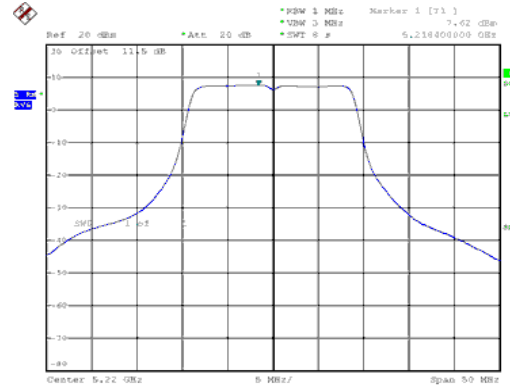
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



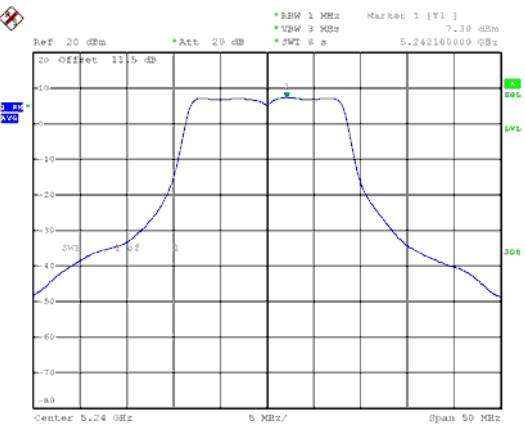
CH44



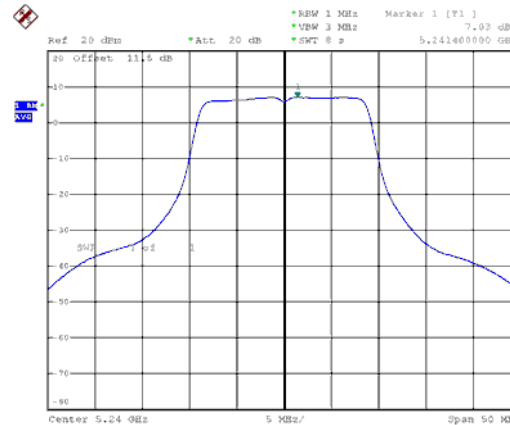
CH44



CH48

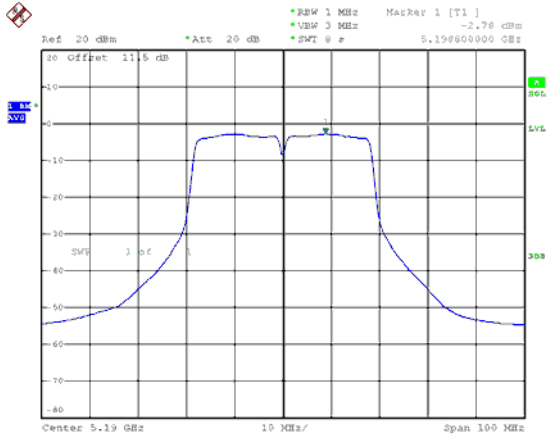


CH48

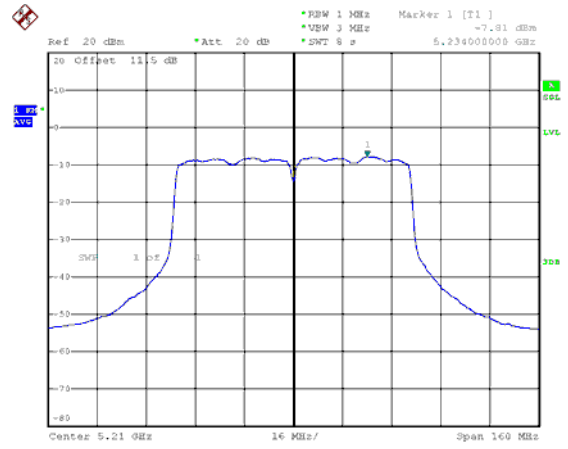




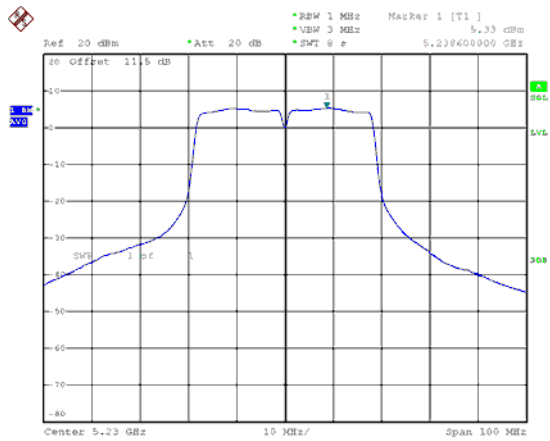
Band 1, ANT A  
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42



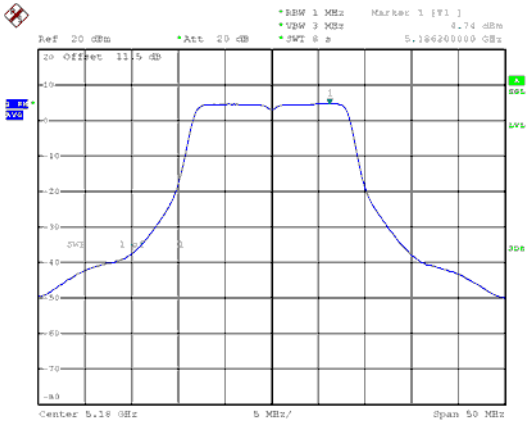
CH46



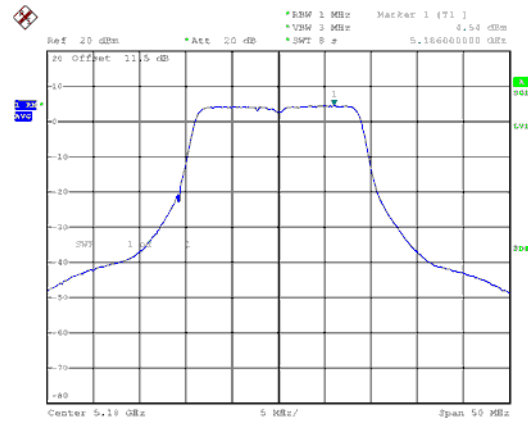


Band 1, ANT B

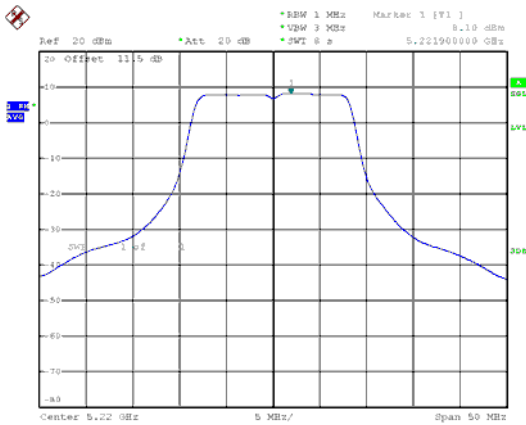
Modulation Type: 802.11a (6Mbps)  
CH36



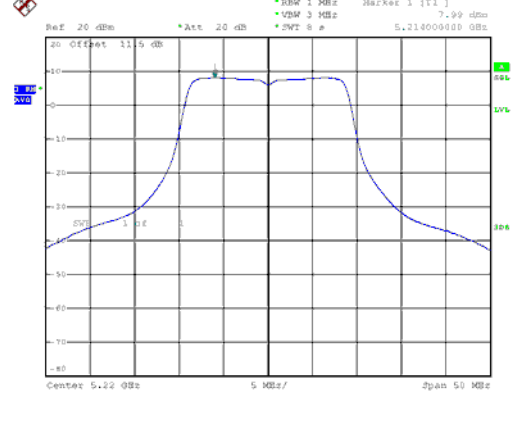
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



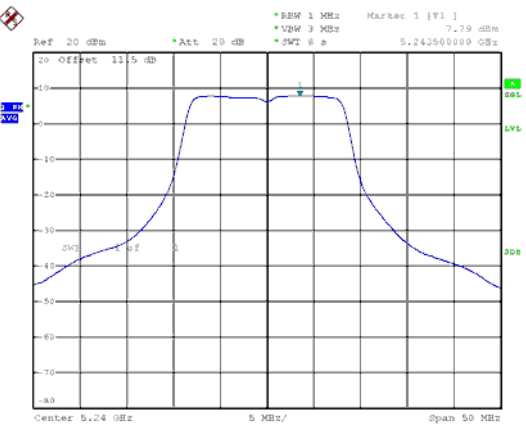
CH44



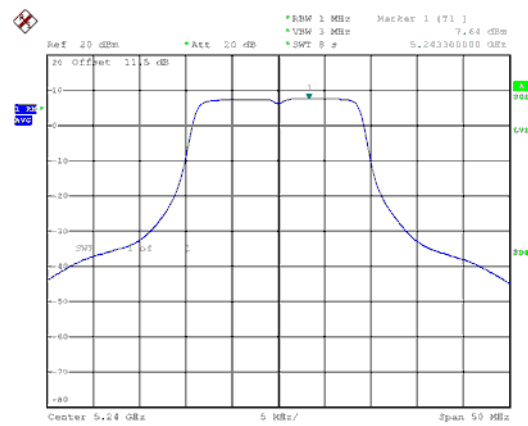
CH44



CH48



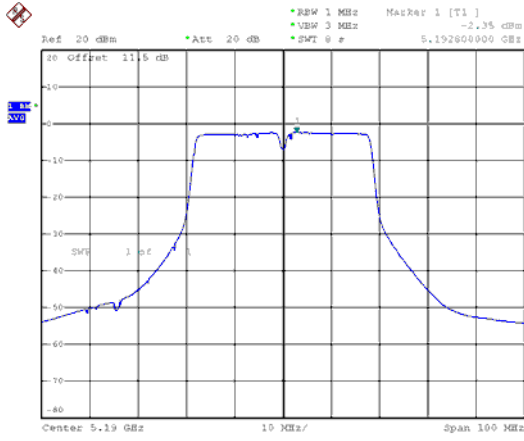
CH48



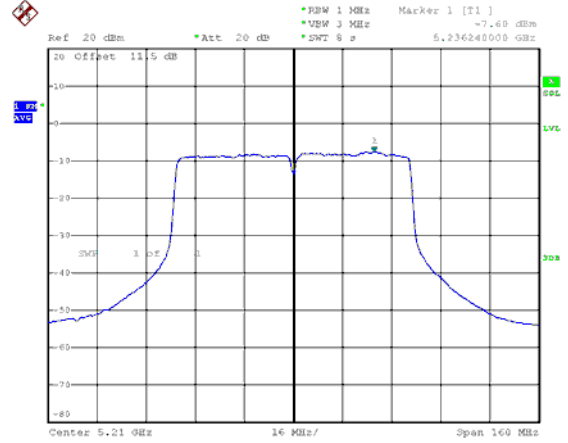


Band 1, ANT B

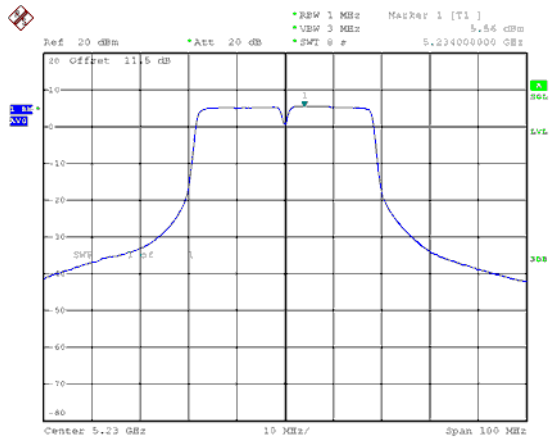
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42



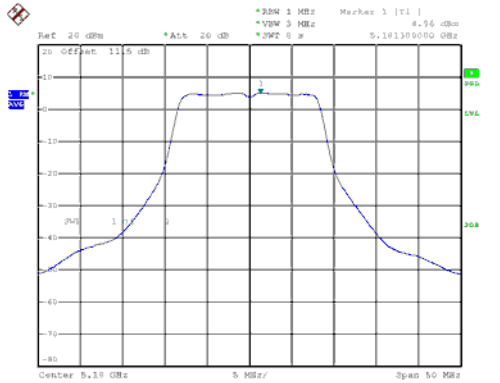
CH46



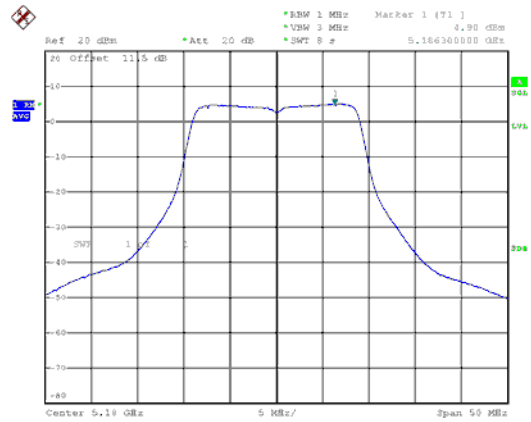


Band 1, ANT C

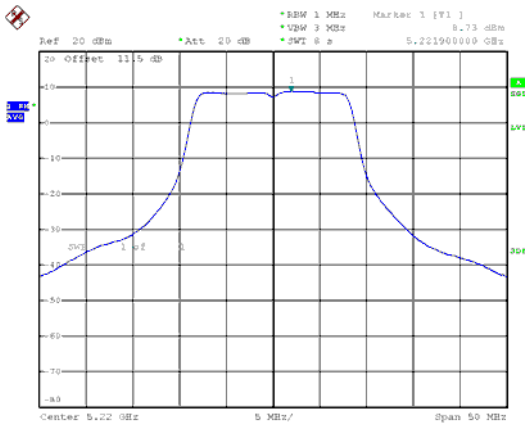
Modulation Type: 802.11a (6Mbps)  
CH36



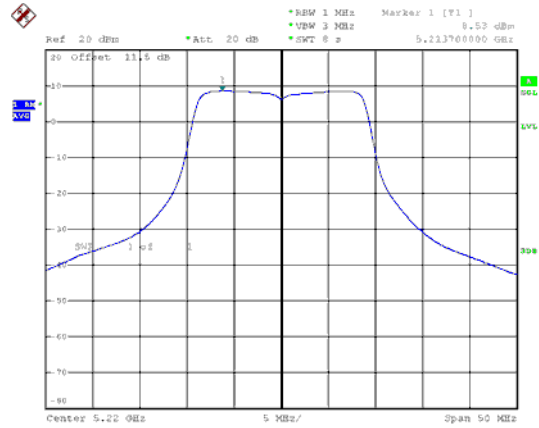
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH36



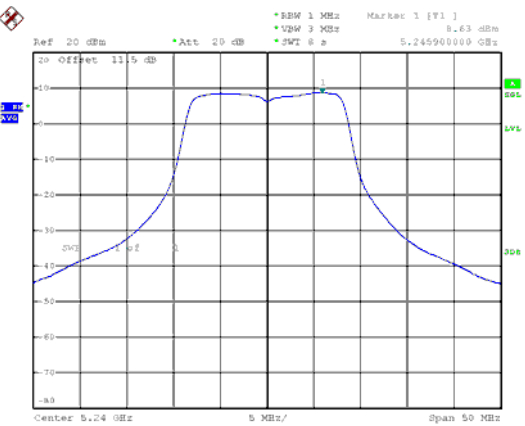
CH44



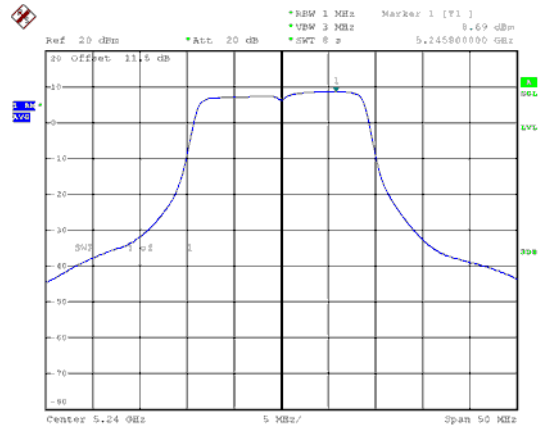
CH44



CH48



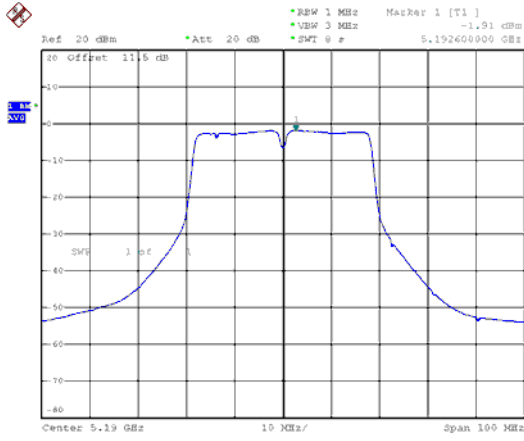
CH48



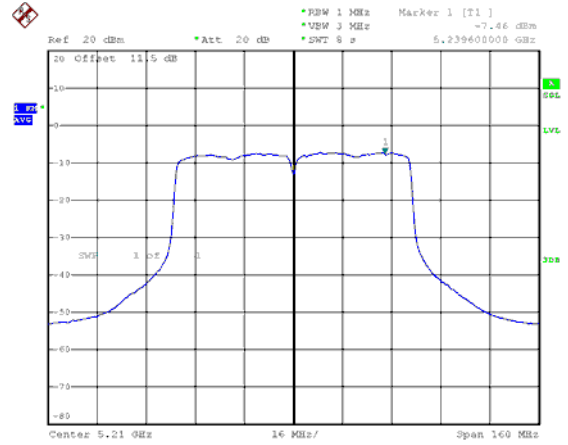


Band 1, ANT C

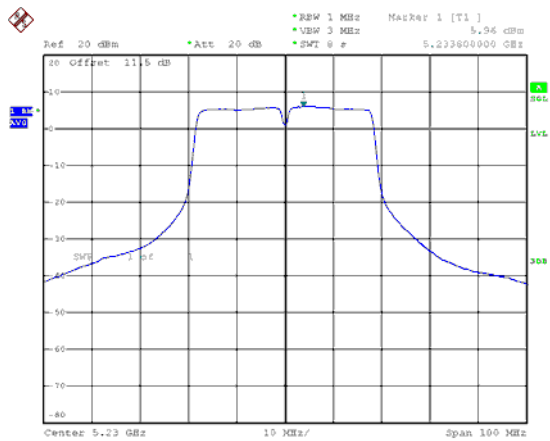
Modulation Type: 802.11ac VHT40 (6.5Mbps)  
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)  
CH42

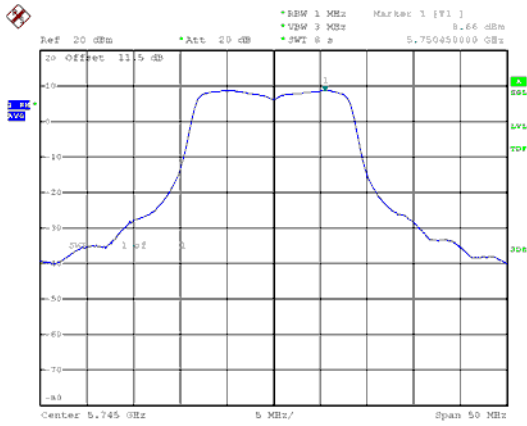


CH46

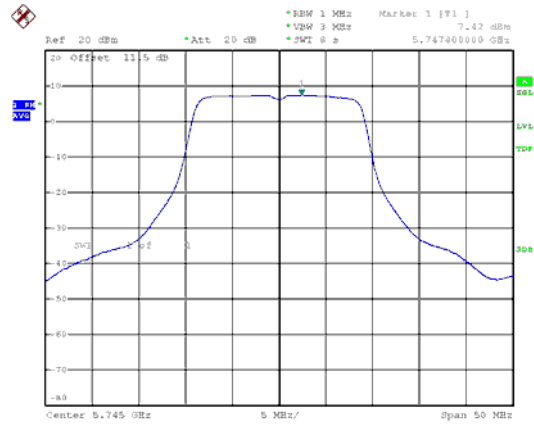




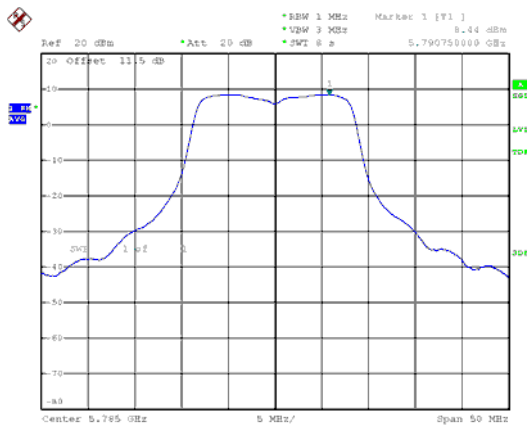
Band 4, ANT A  
Modulation Type: 802.11a (6Mbps)  
CH149



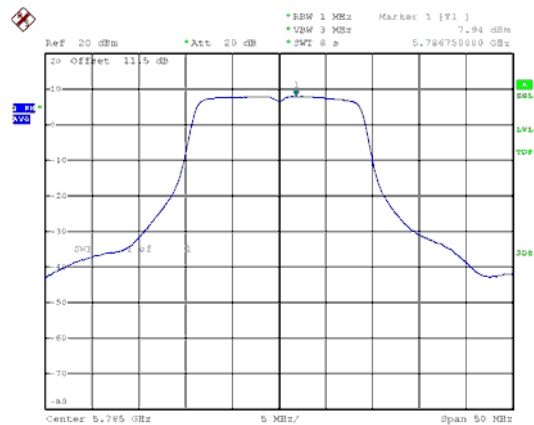
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH149



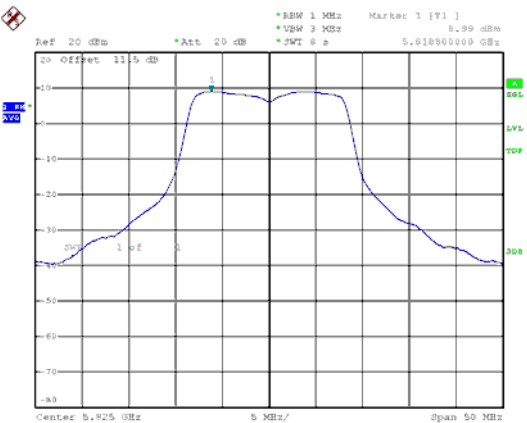
CH157



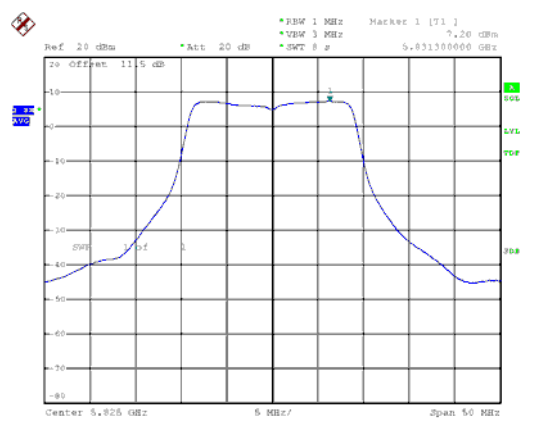
CH157



CH165



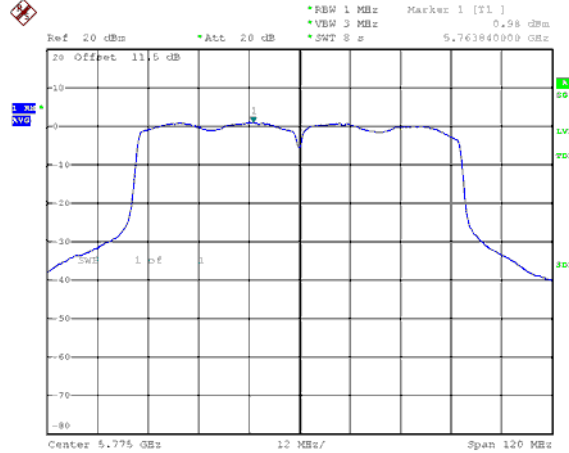
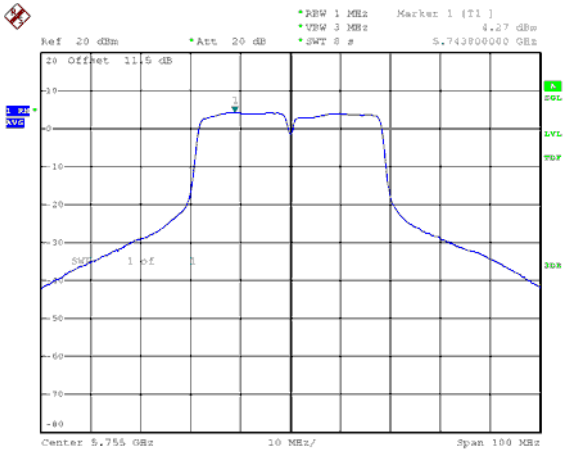
CH165



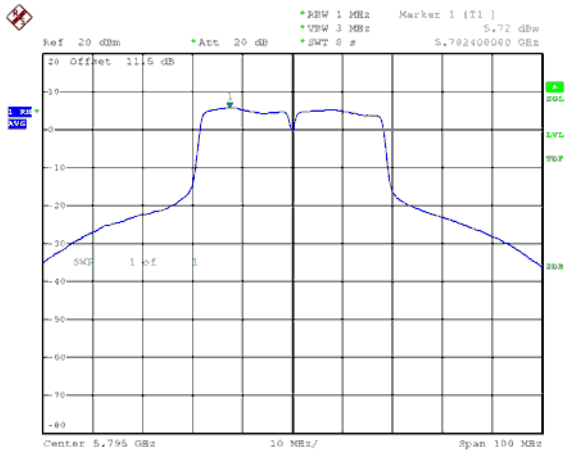


Band 4, ANT A  
Modulation Type: 802.11ac VHT40 (13.5Mbps)  
CH151

Modulation Type: 802.11ac VHT80 (29.3Mbps)  
CH155



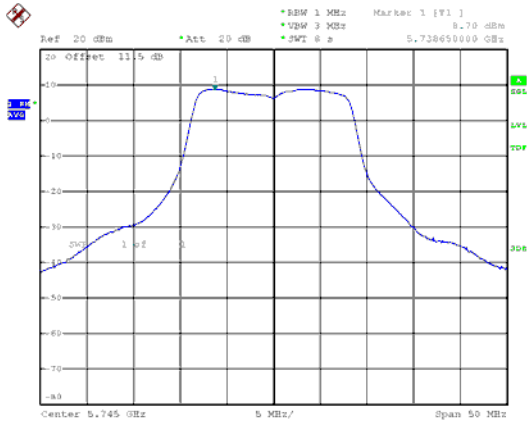
CH159



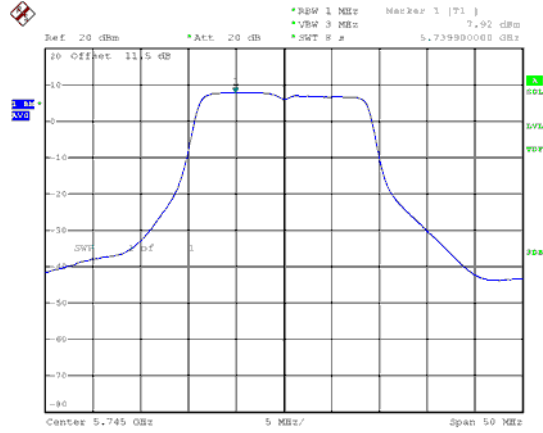




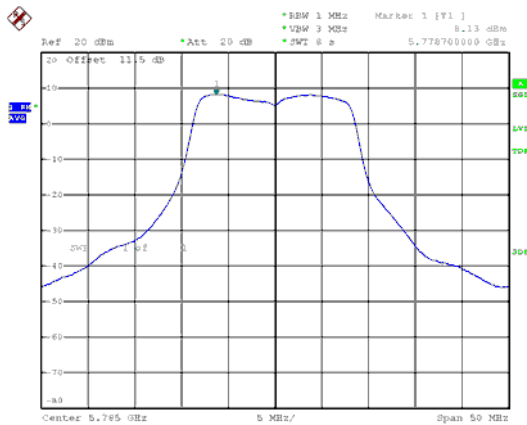
Band 4, ANT B  
Modulation Type: 802.11a (6Mbps)  
CH149



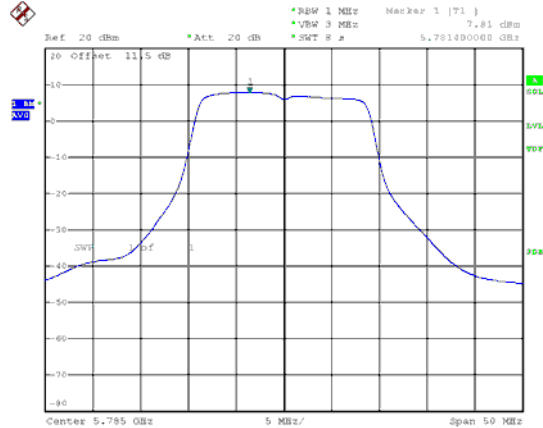
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH149



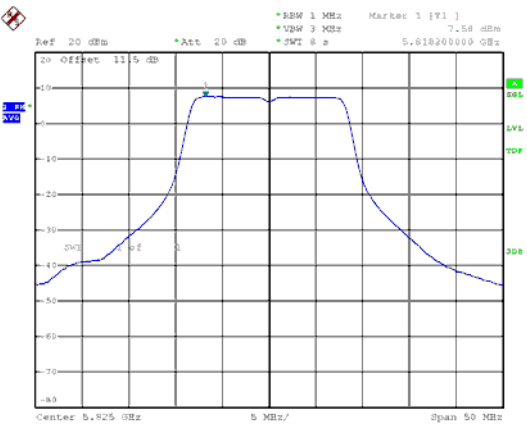
CH157



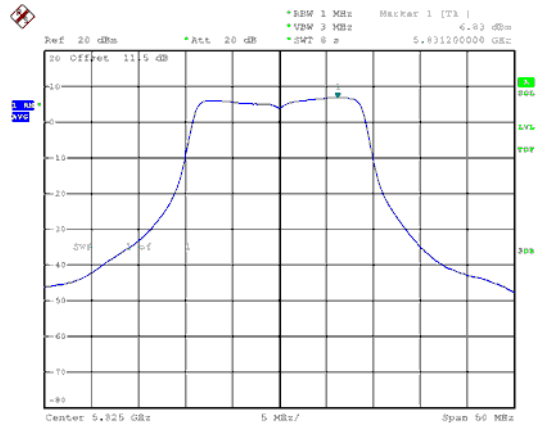
CH157



CH165

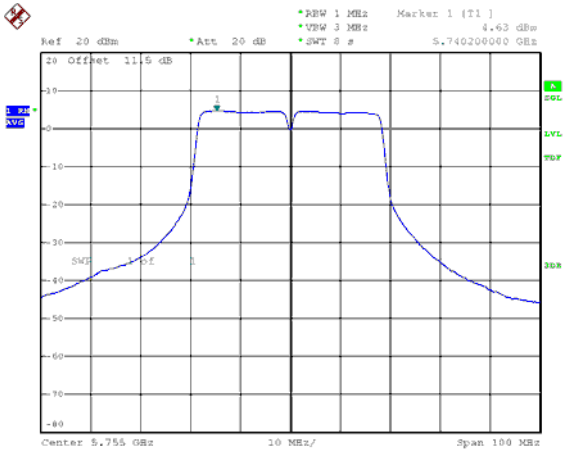


CH165

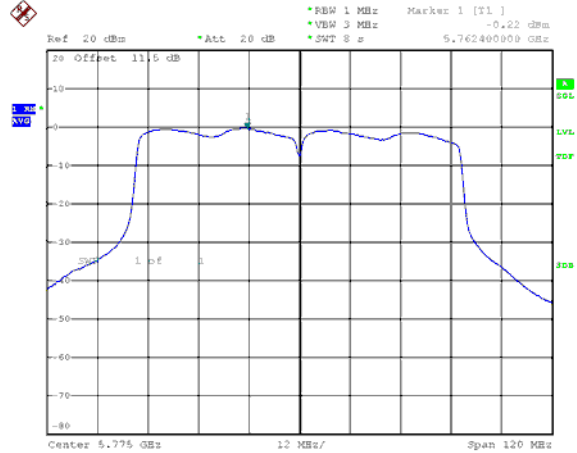




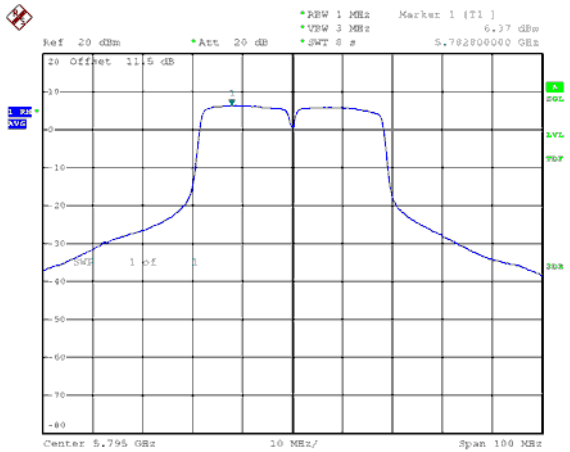
Band 4, ANT A  
Modulation Type: 802.11ac VHT40 (13.5Mbps)  
CH151



Modulation Type: 802.11ac VHT80 (29.3Mbps)  
CH155

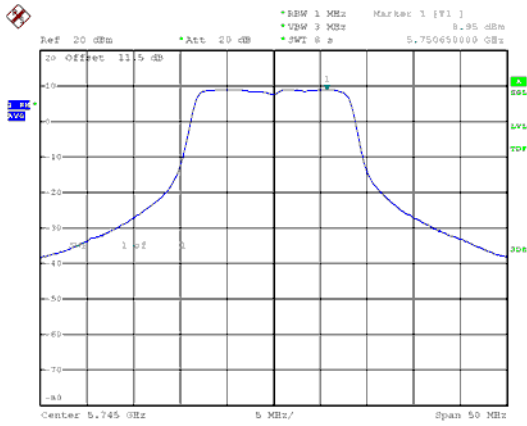


CH159

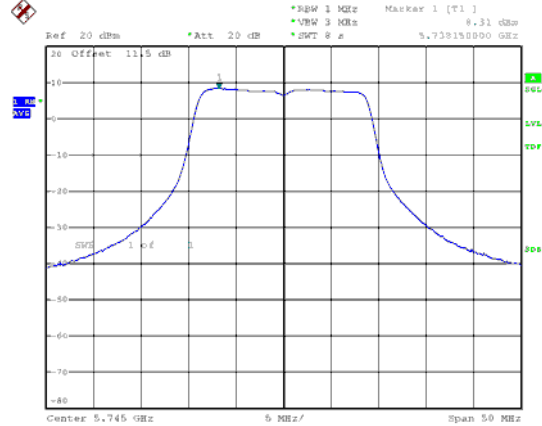




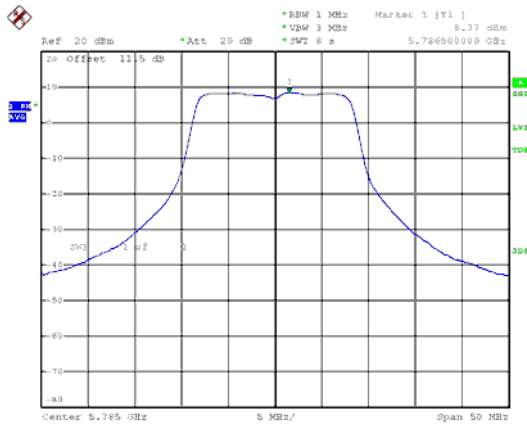
Band 4, ANT C  
Modulation Type: 802.11a (6Mbps)  
CH149



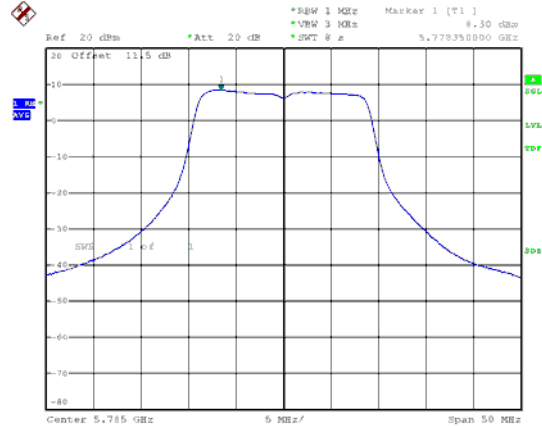
Modulation Type: 802.11ac VHT20 (6.5Mbps)  
CH149



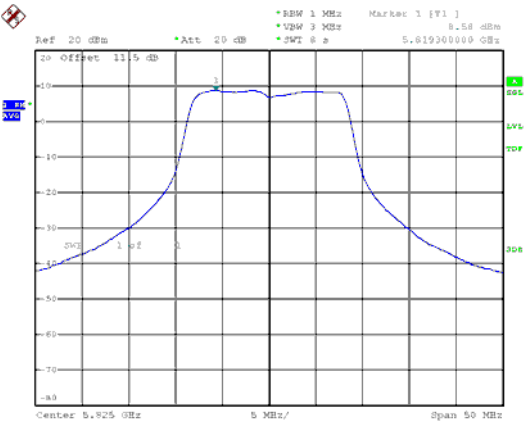
CH157



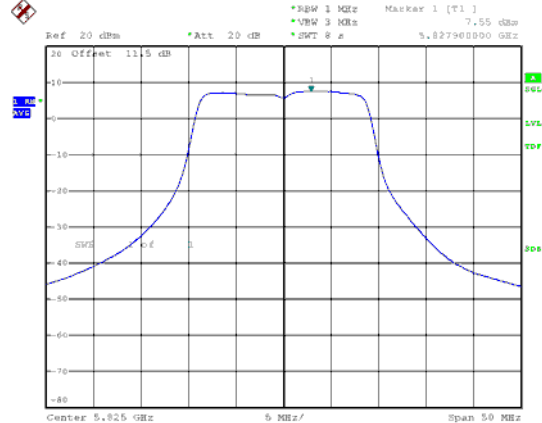
CH157



CH165



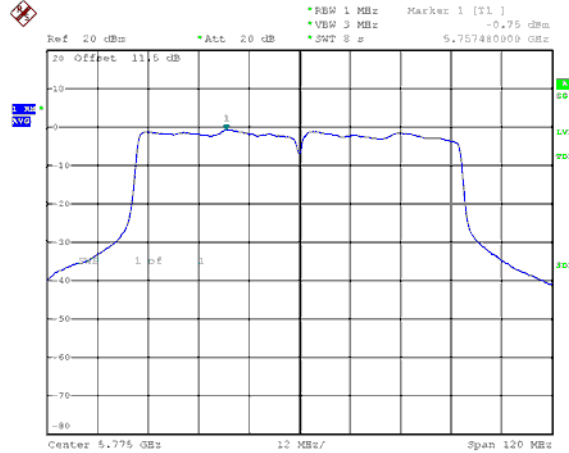
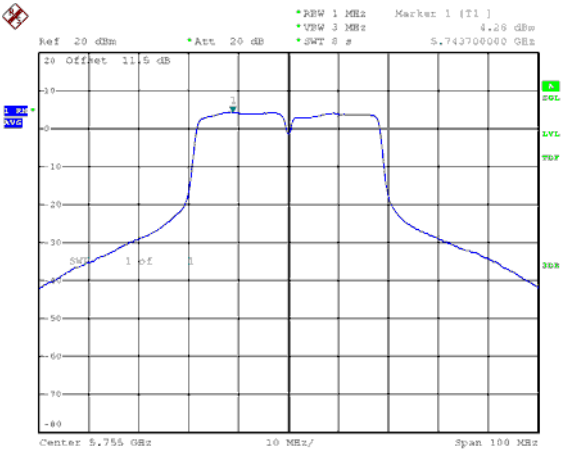
CH165



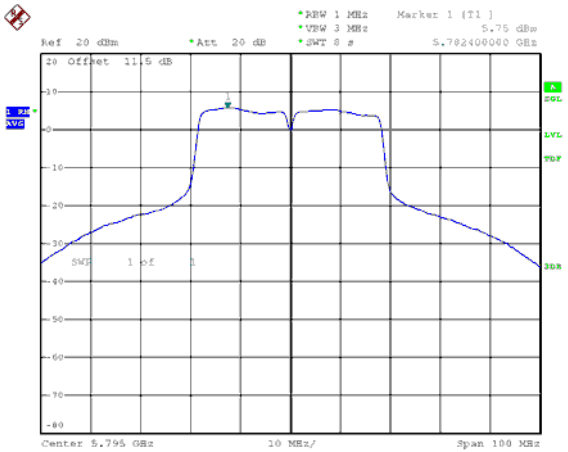


Band 4, ANT C  
Modulation Type: 802.11ac VHT40 (13.5Mbps)  
CH151

Modulation Type: 802.11ac VHT80 (29.3Mbps)  
CH155



CH159



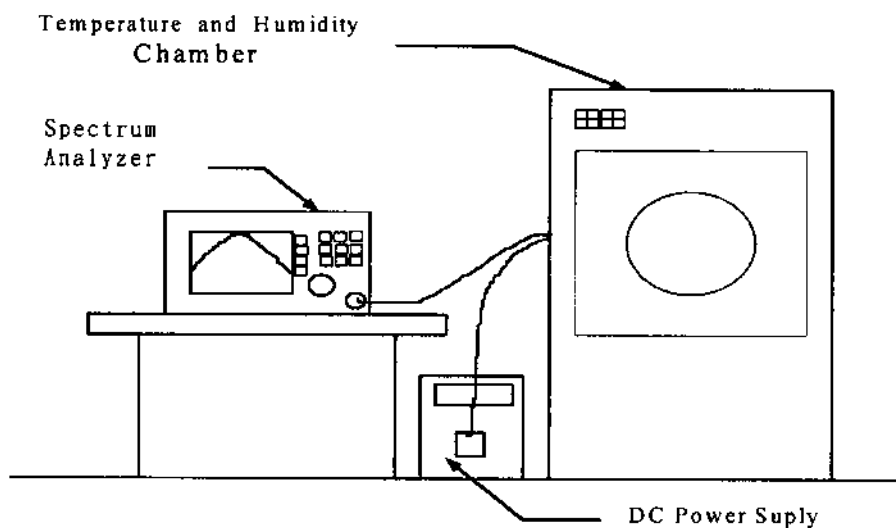


## 12. Frequency Stability

### 12.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

### 12.2. Test Setup Layout





12.3. Test Result and Data

Operating frequency: 5180 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(°C)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	102	5179.9469	-0.001025	5179.9790	-0.000405	5179.9765	-0.000455
	120	5180.0601	0.001161	5180.0174	0.000337	5179.9806	-0.000375
	138	5179.9984	-0.000031	5180.0887	0.001712	5179.9015	-0.001902
40	102	5180.0061	0.000117	5179.9960	-0.000077	5179.9554	-0.000861
	120	5179.9971	-0.000055	5180.0387	0.000746	5179.9449	-0.001065
	138	5180.0625	0.001206	5180.0594	0.001147	5179.9874	-0.000243
30	102	5179.9567	-0.000835	5179.9125	-0.001690	5179.9887	-0.000217
	120	5180.0759	0.001465	5179.9862	-0.000267	5180.0445	0.000858
	138	5180.0722	0.001393	5179.9957	-0.000084	5179.9365	-0.001226
20	102	5179.9731	-0.000519	5179.9591	-0.000789	5179.9846	-0.000297
	120	5180.0020	0.000039	5179.9224	-0.001497	5180.0126	0.000243
	138	5180.0011	0.000022	5179.9481	-0.001001	5179.9014	-0.001903
10	102	5180.0196	0.000379	5180.0119	0.000229	5180.0171	0.000331
	120	5180.0870	0.001679	5179.9799	-0.000387	5179.9801	-0.000384
	138	5179.9125	-0.001689	5180.0101	0.000194	5180.0121	0.000233
0	102	5179.9876	-0.000239	5180.0058	0.000112	5180.0218	0.000422
	120	5180.0279	0.000539	5180.0005	0.000010	5180.0195	0.000377
	138	5179.9724	-0.000532	5180.0308	0.000595	5180.0005	0.000010
-10	102	5180.0366	0.000707	5180.0701	0.001353	5179.9041	-0.001852
	120	5180.0182	0.000352	5180.0402	0.000777	5180.0254	0.000490
	138	5179.9257	-0.001434	5179.9990	-0.000019	5179.9645	-0.000685
-20	102	5179.9698	-0.000583	5179.9192	-0.001559	5179.9860	-0.000270
	120	5179.9745	-0.000493	5180.0335	0.000646	5179.9413	-0.001132
	138	5180.0010	0.000019	5180.0449	0.000866	5179.9889	-0.000215
-30	102	5179.9374	-0.001209	5180.0366	0.000706	5179.9135	-0.001671
	120	5179.9489	-0.000986	5180.0656	0.001266	5180.0302	0.000584
	138	5179.9950	-0.000096	5179.9232	-0.001483	5180.0004	0.000009

Limit:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.