



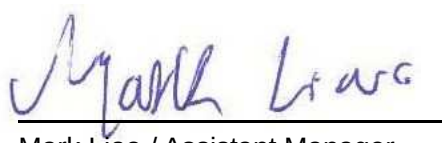
FCC RADIO TEST REPORT

Applicant : Open Mesh, Inc.
Address : 5 Centerpointe Drive, Suite 400, Lake Oswego,
Oregon, United States, 97035
Equipment : WiFi Access Point
Model No. : A60
Trade Name : 
FCC ID : WT8OMA60

I HEREBY CERTIFY THAT :

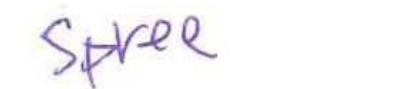
The sample was received on Nov. 12, 2016 and the testing was carried out on Dec. 15, 2016 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:



Mark Liao / Assistant Manager

Tested by:



Spree Yei / Engineer

Laboratory Accreditation:

Cerpass Technology Corporation Test
Laboratory





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History of this test report

Report No.	Issue Date	Description
TEF1609105	Dec. 16, 2016	Original



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

First R&O 14-30

KDB662911

KDB789033

KDB644545

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)	. Output and PPSD	Pass



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Modulation Type	DSSS, OFDM
Frequency Range	802.11b/g/n: 2412-2462MHz 802.11a/an/ac: 5150-5250MHz, 5725-5850MHz
Data Rate	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, VHT 20/40/80)
Antenna Type	PIFA Antenna
Antenna Gain	802.11b/g/n: Antenna 1: 3.0 dBi Antenna 2: 4.6 dBi Antenna 3: 3.3 dBi 802.11a/an/ac: Antenna 1: 5.1 dBi Antenna 2: 4.7 dBi Antenna 3: 4.8 dBi

2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11an HT 20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*36	5180	*44	5220
40	5200	*48	5240

802.11an HT 40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*38	5190	*46	5230

802.11ac VHT80

Channel	Frequency(MHz)
*42	5210

Band: 5725MHz -5850MHz

802.11a, 802.11an HT20, 802.11ac VHT20

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

802.11an HT 40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*151	5755	*159	5795

802.11ac VHT80

Channel	Frequency(MHz)
*155	5775

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 C63.4.
- b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- c. An executive program, "ART2-GUI" under WIN 7 was executed to transmit and receive data via WLAN.
- d. The following test modes were performed for the test:

Test Mode 1: 802.11a (6Mbps)

Test Mode 2: 802.11an HT20 (6.5Mbps)

Test Mode 3: 802.11an HT40 (13.5Mbps)

Test Mode 4: 802.11ac VHT20 (6.5Mbps)

Test Mode 5: 802.11ac VHT40 (13.5Mbps)

Test Mode 6: 802.11ac VHT80 (29.3Mbps)

For conduction test, caused "Test Mode 4" generated the worst case, it was reported as the final data.

For radiated test (below 1GHz), caused "Test Mode 4" generated the worst case, it was reported as the final data.

For radiated test (above 1GHz), caused "Test Mode 1,4,5,6" generated the worst case, they were reported as the final data.

2.4. Description of Test System

Device	Manufacturer	Model No.	Description
Remote workstation			
Notebook	DELL	Latitude E6430	Power Cable, Unshielding, 1.8m



2.5. General Information of Test

Test Site	Cerpass Technology Corporation Test Laboratory 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 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582	
	FCC	TW1079, TW1061, 390316, 228391, 641184
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-4218, R-4399 for Radiated emission test G-812, G-813 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.	

2.6. Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	Line / Neutral	±2.9076 dB
Radiated Emission	9 kHz ~ 25,000 MHz	Vertical / Horizontal	±0.948 dB
Spurious Emission (Conducted)	-	-	±4.011 dB
Maximum Peak and Average Output Power	-	-	±0.322 dB
Power Spectral Density	-	-	±0.322 dB
Bandwidth	-	-	74.224Hz



3. Test Equipment and Ancillaries Used for Tests

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI3	100443	2016/03/28	2017/03/27
LISN	Schwarzbeck	NSLK 8127	8127-740	2016/08/30	2017/08/29
LISN	Schwarzbeck	NSLK 8127	8127-516	2016/09/06	2017/09/05
Pulse Limiter	R&S	ESH3-Z2	101934	2016/03/09	2017/03/08
Bilog Antenna	Schwarzbeck	VULB9168	369	2016/03/22	2017/03/21
Active Loop Antenna	EMCO	6507	40855	2016/05/11	2017/05/10
Horn Antenna	EMCO	3115	31601	2016/09/05	2017/09/04
Horn Antenna	EMCO	3116	31970	2016/03/18	2017/03/17
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2016/03/16	2017/03/15
Preamplifier	EM	EM330	60660	2016/03/16	2017/03/15
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2016/09/13	2017/09/12
Preamplifier	Agilent	8449B	3008A01954	2016/03/04	2017/03/03
Preamplifier	MITEQ	AMF-7D-001010 0-30-10P	1860212	2016/03/16	2017/03/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2016/11/04	2017/11/03
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2016/03/18	2017/03/17
Spectrum Analyzer	R&S	FSP40	100219	2016/09/01	2017/08/31
BLUETOOTH TESTER	R&S	CBT	101133	2016/03/18	2017/03/17
Attenuator	KEYSIGHT	8491B	MY39250703	2016/03/07	2017/03/06
Rotary Attenuator	Agilent	8494B	MY42154466	2016/03/08	2017/03/07
Rotary Attenuator	Agilent	8495B	MY42146680	2016/03/08	2017/03/07
Temp & Humi chamber	T-MACHINE	TMJ-9712	T-12-040111	2016/09/05	2017/09/04
Series Power Meter	Anritsu	ML2495A	1224005	2016/03/03	2017/03/02
Power Sensor	Anritsu	MA2411B	1207295	2016/03/03	2017/03/02
Cable	HUBER SUHNER	SUCOFLEX 102	28422/2	2016/03/15	2017/03/14
Cable	HUBER SUHNER	SUCOFLEX 102	28418/2	2016/03/16	2017/03/15
Cable	HUBER SUHNER	SUCOFLEX 102	28417/2	2016/03/04	2017/03/03
Software	Farad	Ez-EMC	ver.ct3a1	N/A	N/A
Software	AUDIX	E3	V8.2014-8-6	N/A	N/A
Software	Keysight	N7607B Signal Studio	v2.0.0.1	N/A	N/A
Software	Keysight	Inservice MonitorUtility	N/A	N/A	N/A



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	Antenna Gain
PIFA Antenna	Antenna 1: 5.1 dBi
	Antenna 2: 4.7 dBi
	Antenna 3: 4.8 dBi

For Power directional gain= G_{ant} = 5.1 dBi

For PSD directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / NANT]$
= 9.64 (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 (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

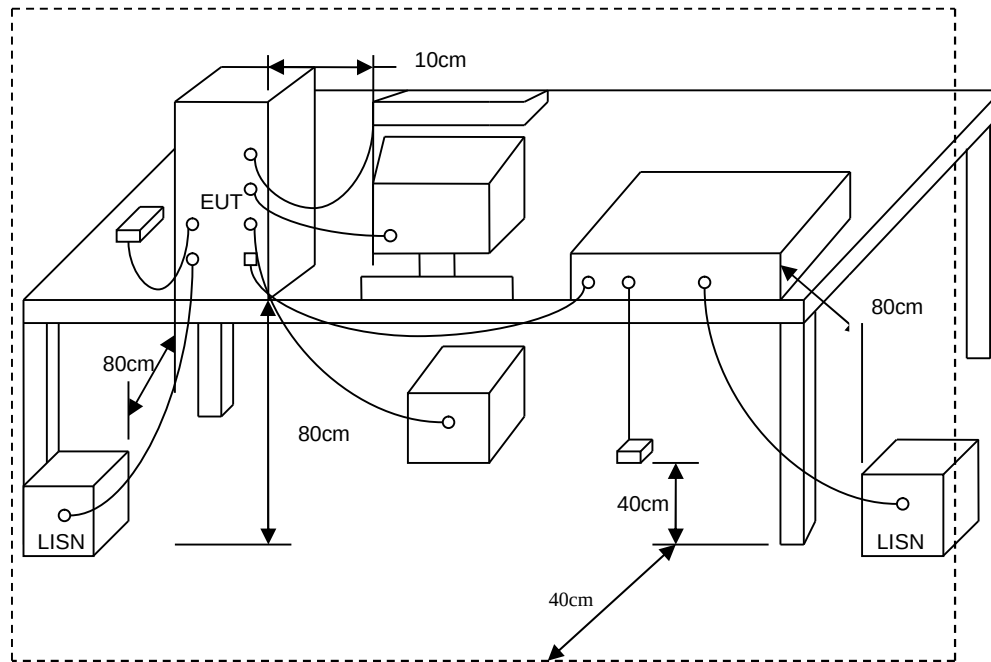
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

- 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.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



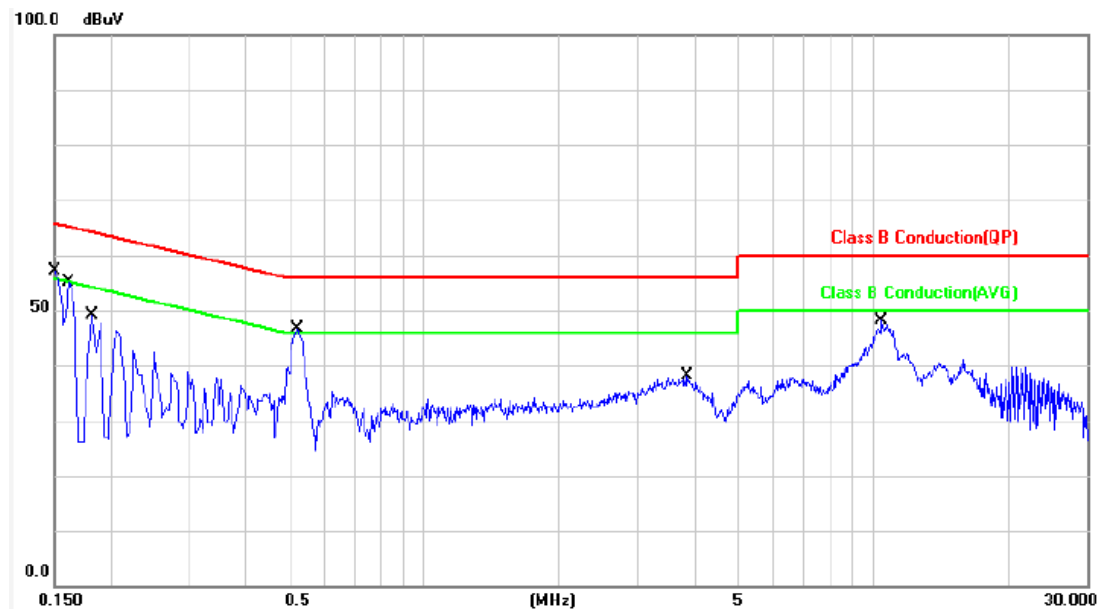
5.3. Typical Test Setup





5.4. Test Result and Data

Power	:	PoE	Pol/Phase	:	LINE
Test Mode	:	Mode 4, CH36	Temperature	:	20 °C
Test date	:	Dec. 15, 2016	Humidity	:	52 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	9.98	44.97	54.95	65.99	-11.04	QP	P
2	0.1500	9.98	26.75	36.73	55.99	-19.26	AVG	P
3	0.1620	9.98	42.15	52.13	65.36	-13.23	QP	P
4	0.1620	9.98	23.08	33.06	55.36	-22.30	AVG	P
5	0.1819	9.97	38.73	48.70	64.39	-15.69	QP	P
6	0.1819	9.97	20.50	30.47	54.39	-23.92	AVG	P
7	0.5220	9.98	35.55	45.53	56.00	-10.47	QP	P
8	0.5220	9.98	30.94	40.92	46.00	-5.08	AVG	P
9	3.8540	10.14	24.06	34.20	56.00	-21.80	QP	P
10	3.8540	10.14	19.45	29.59	46.00	-16.41	AVG	P
11	10.4540	10.28	33.01	43.29	60.00	-16.71	QP	P
12	10.4540	10.28	28.20	38.48	50.00	-11.52	AVG	P

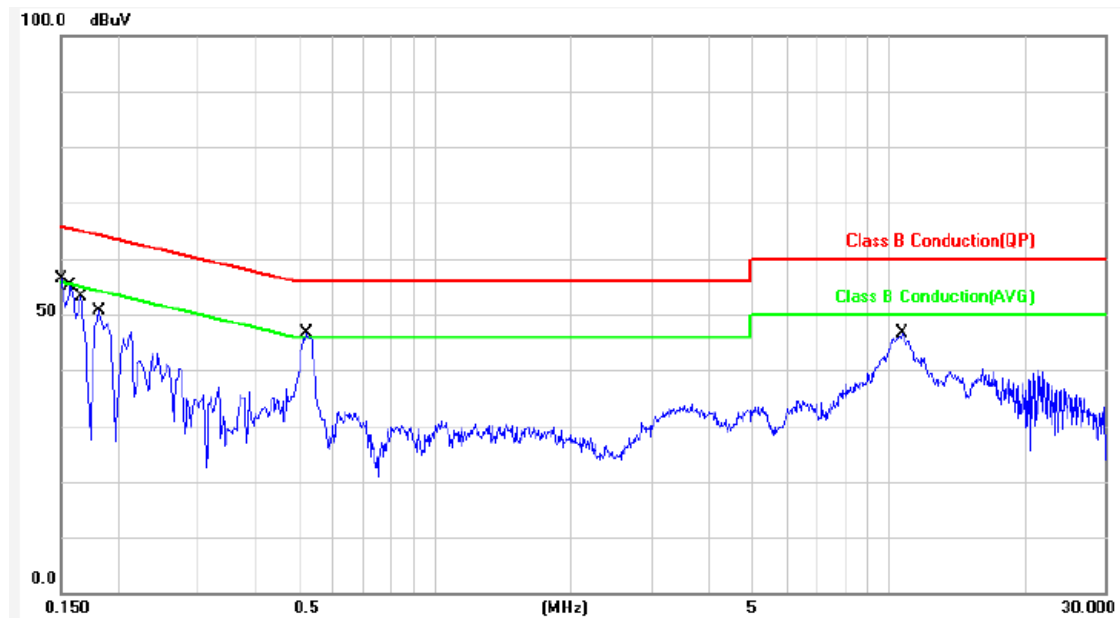
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator



Power	:	PoE	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 4, CH36	Temperature	:	20 °C
Test date	:	Dec. 15, 2016	Humidity	:	52 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	9.98	44.49	54.47	65.99	-11.52	QP	P
2	0.1500	9.98	26.31	36.29	55.99	-19.70	AVG	P
3	0.1580	9.98	42.81	52.79	65.56	-12.77	QP	P
4	0.1580	9.98	23.93	33.91	55.56	-21.65	AVG	P
5	0.1660	9.98	41.08	51.06	65.15	-14.09	QP	P
6	0.1660	9.98	22.90	32.88	55.15	-22.27	AVG	P
7	0.1819	9.98	38.22	48.20	64.39	-16.19	QP	P
8	0.1819	9.98	20.11	30.09	54.39	-24.30	AVG	P
9	0.5220	9.95	35.38	45.33	56.00	-10.67	QP	P
10	0.5220	9.95	30.86	40.81	46.00	-5.19	AVG	P
11	10.7660	10.35	32.11	42.46	60.00	-17.54	QP	P
12	10.7660	10.35	27.26	37.61	50.00	-12.39	AVG	P

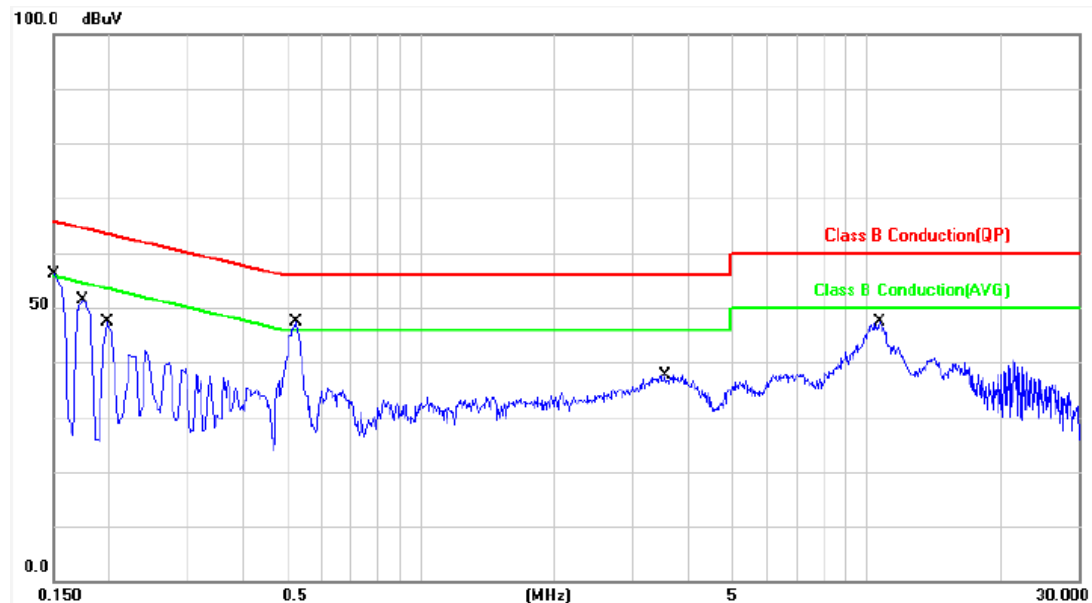
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator



Power	:	PoE	Pol/Phase	:	LINE
Test Mode	:	Mode 4, CH149	Temperature	:	20 °C
Test date	:	Dec. 15, 2016	Humidity	:	52 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	9.98	43.92	53.90	65.99	-12.09	QP	P
2	0.1500	9.98	25.70	35.68	55.99	-20.31	AVG	P
3	0.1740	9.98	39.03	49.01	64.76	-15.75	QP	P
4	0.1740	9.98	20.80	30.78	54.76	-23.98	AVG	P
5	0.1980	9.97	34.20	44.17	63.69	-19.52	QP	P
6	0.1980	9.97	17.11	27.08	53.69	-26.61	AVG	P
7	0.5260	9.98	35.13	45.11	56.00	-10.89	QP	P
8	0.5260	9.98	30.08	40.06	46.00	-5.94	AVG	P
9	3.5460	10.14	24.37	34.51	56.00	-21.49	QP	P
10	3.5460	10.14	19.71	29.85	46.00	-16.15	AVG	P
11	10.7500	10.29	32.87	43.16	60.00	-16.84	QP	P
12	10.7500	10.29	28.06	38.35	50.00	-11.65	AVG	P

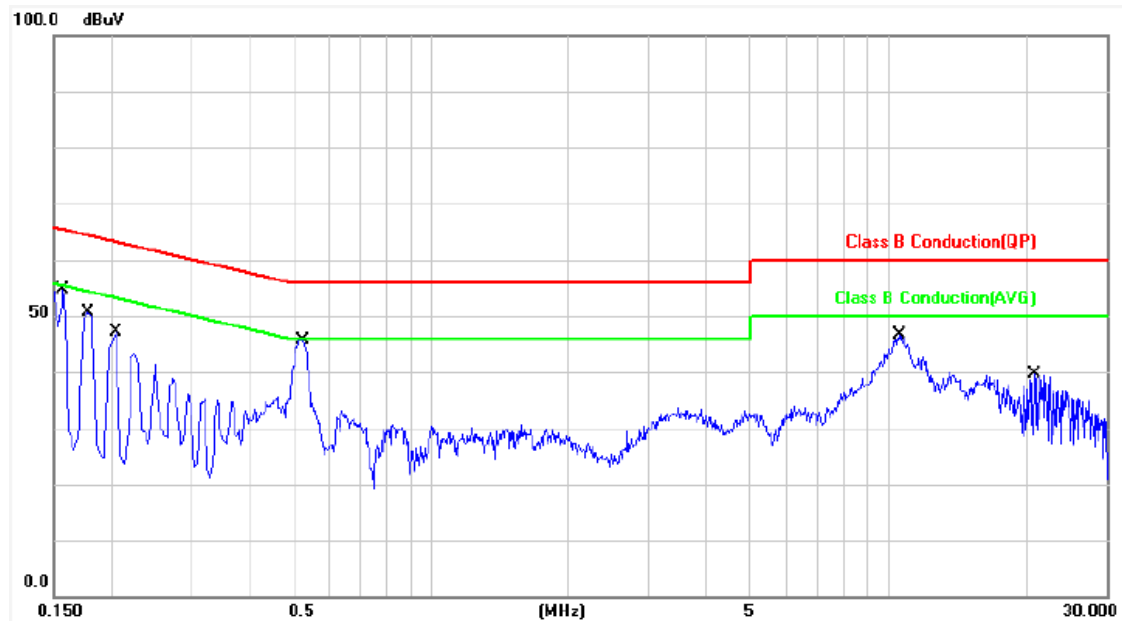
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator



Power	: PoE	Pol/Phase	: NEUTRAL
Test Mode	: Mode 4, CH149	Temperature	: 20 °C
Test date	: Dec. 15, 2016	Humidity	: 52 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	9.98	42.14	52.12	65.56	-13.44	QP	P
2	0.1580	9.98	23.46	33.44	55.56	-22.12	AVG	P
3	0.1780	9.98	37.96	47.94	64.57	-16.63	QP	P
4	0.1780	9.98	19.80	29.78	54.57	-24.79	AVG	P
5	0.2060	9.98	33.56	43.54	63.36	-19.82	QP	P
6	0.2060	9.98	17.73	27.71	53.36	-25.65	AVG	P
7	0.5260	9.95	35.02	44.97	56.00	-11.03	QP	P
8	0.5260	9.95	30.05	40.00	46.00	-6.00	AVG	P
9	10.5900	10.34	32.27	42.61	60.00	-17.39	QP	P
10	10.5900	10.34	27.21	37.55	50.00	-12.45	AVG	P
11	20.8740	10.61	27.64	38.25	60.00	-21.75	QP	P
12	20.8740	10.61	26.37	36.98	50.00	-13.02	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator



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:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 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.

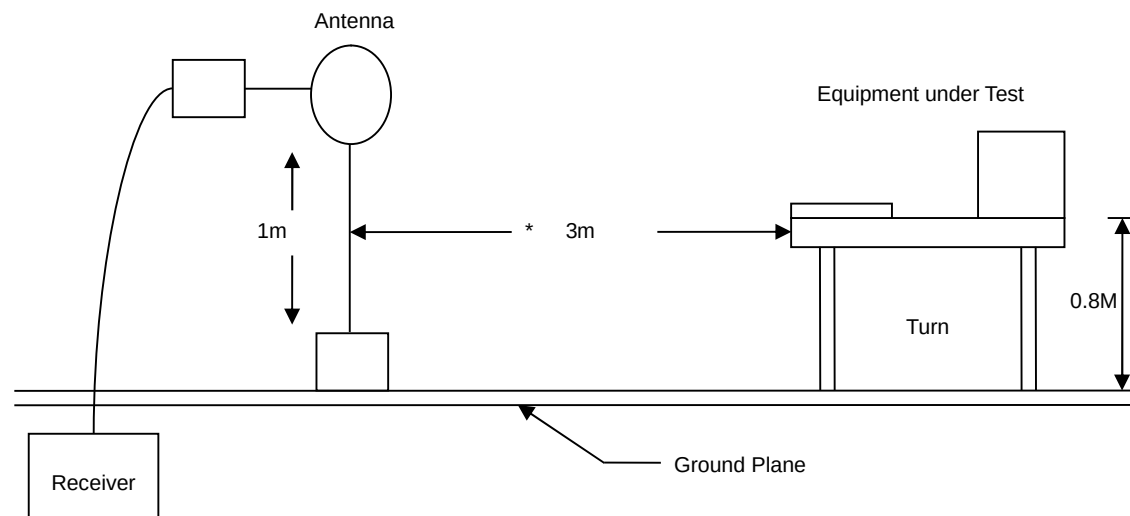
6.2. Test Procedures

- 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.

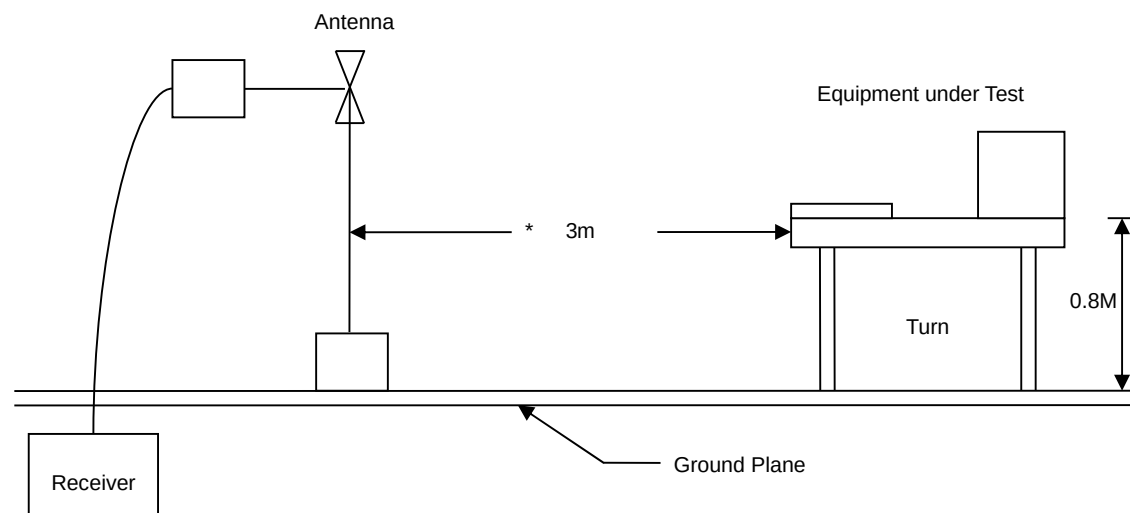


6.3. Typical Test Setup

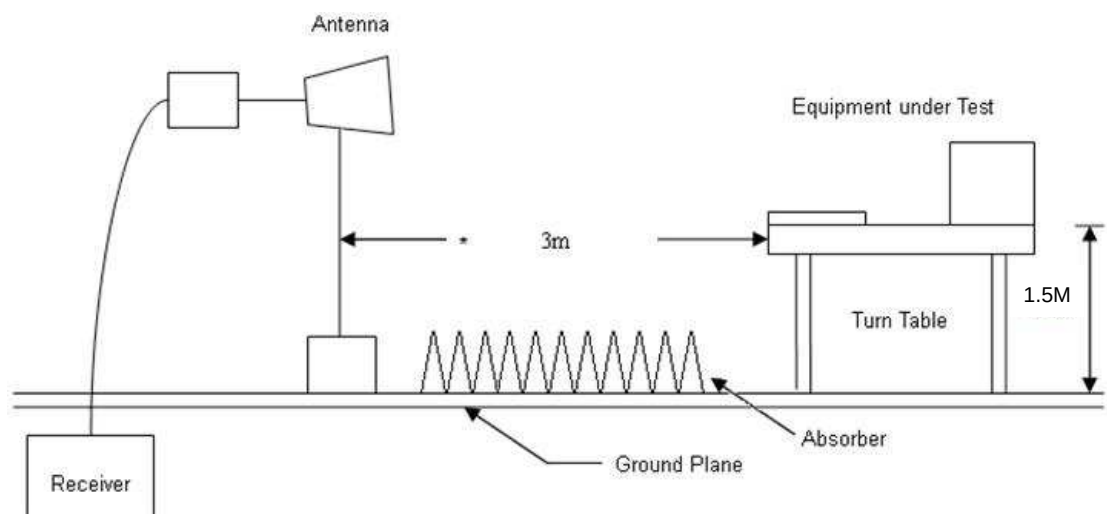
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



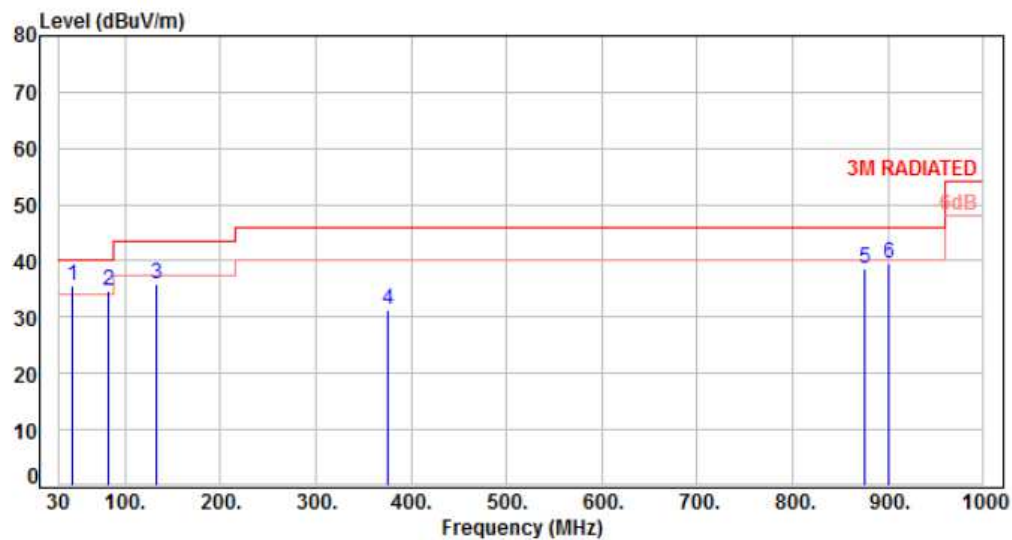


6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

Power	:	PoE	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH36	Temperature	:	23 °C
Test Date	:	Dec. 13, 2016	Humidity	:	66 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	45.52	-9.76	45.38	35.62	40.00	-4.38	QP	100	335	P
2	82.38	-15.21	49.90	34.69	40.00	-5.31	Peak	100	0	P
3	132.82	-11.23	47.23	36.00	43.50	-7.50	100	100	0	P
4	375.32	-7.06	38.44	31.38	46.00	-14.62	100	100	0	P
5	875.84	1.87	36.83	38.70	46.00	-7.30	Peak	100	0	P
6	900.09	2.13	37.44	39.57	46.00	-6.43	Peak	100	0	P

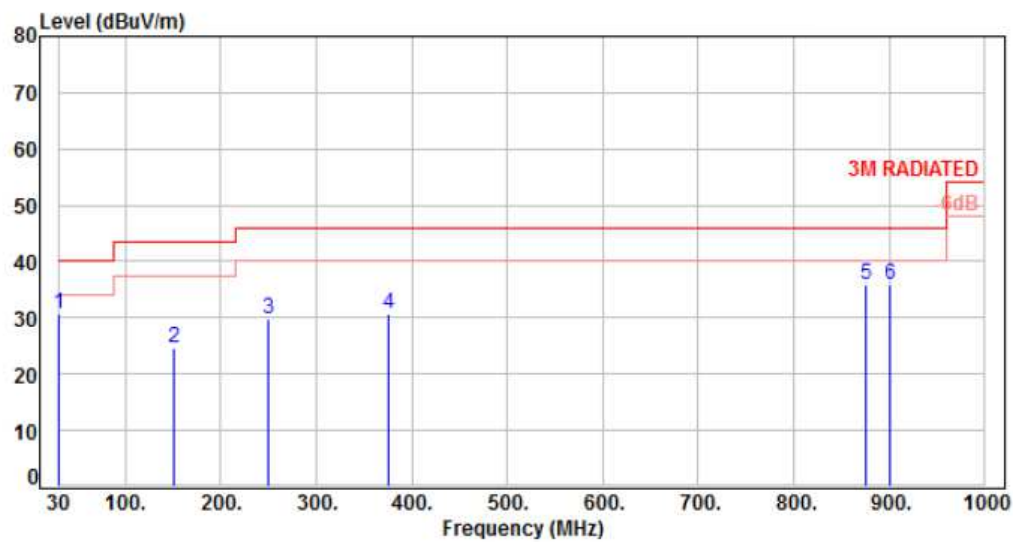
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH36	Temperature	:	23 °C
Test Date	:	Dec. 13, 2016	Humidity	:	66 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.73	41.51	30.78	40.00	-9.22	Peak	400	0	P
2	150.28	-10.03	34.54	24.51	43.50	-18.99	Peak	400	0	P
3	250.19	-10.97	40.80	29.83	46.00	-16.17	Peak	400	0	P
4	375.32	-7.06	37.91	30.85	46.00	-15.15	Peak	400	0	P
5	875.84	1.87	34.04	35.91	46.00	-10.09	Peak	400	0	P
6	900.09	2.13	33.74	35.87	46.00	-10.13	Peak	400	0	P

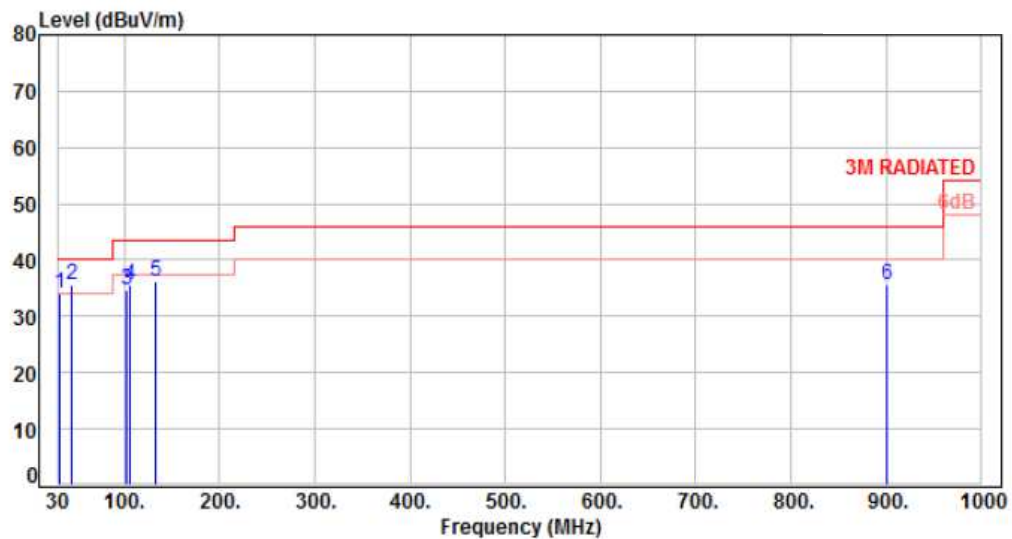
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH149	Temperature	: 23 °C
Test Date	: Dec. 13, 2016	Humidity	: 66 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	31.94	-10.66	44.84	34.18	40.00	-5.82	QP	100	0	P
2	45.52	-9.76	45.26	35.50	40.00	-4.50	QP	100	56	P
3	101.78	-14.52	49.35	34.83	43.50	-8.67	Peak	100	0	P
4	106.63	-13.60	49.06	35.46	43.50	-8.04	Peak	100	0	P
5	132.82	-11.23	47.30	36.07	43.50	-7.43	Peak	100	0	P
6	900.09	2.13	33.54	35.67	46.00	-10.33	Peak	100	0	P

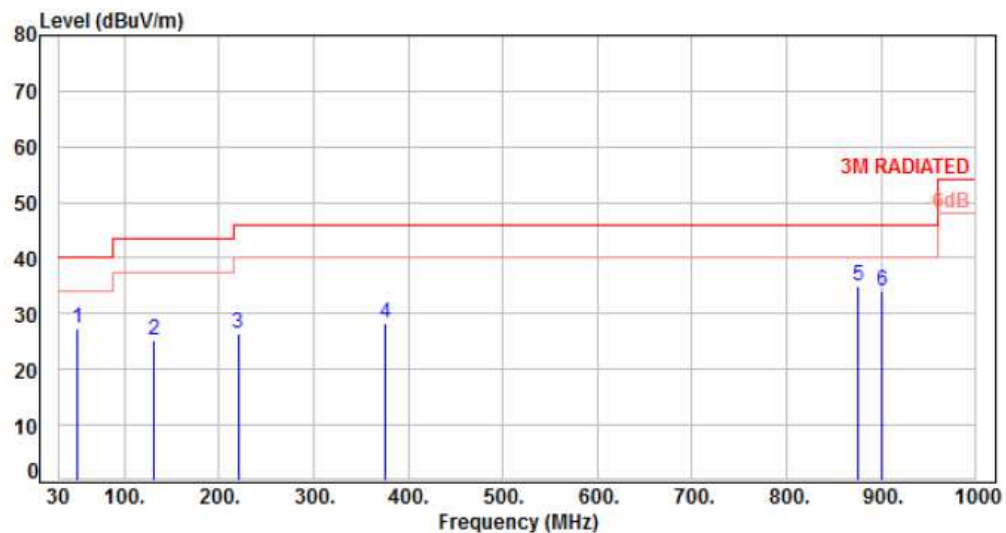
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH149	Temperature	:	23 °C
Test Date	:	Dec. 13, 2016	Humidity	:	66 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	49.40	-9.73	37.04	27.31	40.00	-12.69	Peak	400	0	P
2	130.88	-11.46	36.83	25.37	43.50	-18.13	Peak	400	0	P
3	220.12	-12.67	39.09	26.42	46.00	-19.58	Peak	400	0	P
4	375.32	-7.06	35.48	28.42	46.00	-17.58	Peak	400	0	P
5	875.84	1.87	33.24	35.11	46.00	-10.89	Peak	400	0	P
6	900.09	2.13	31.96	34.09	46.00	-11.91	Peak	400	0	P

Note: Level=Reading+Factor

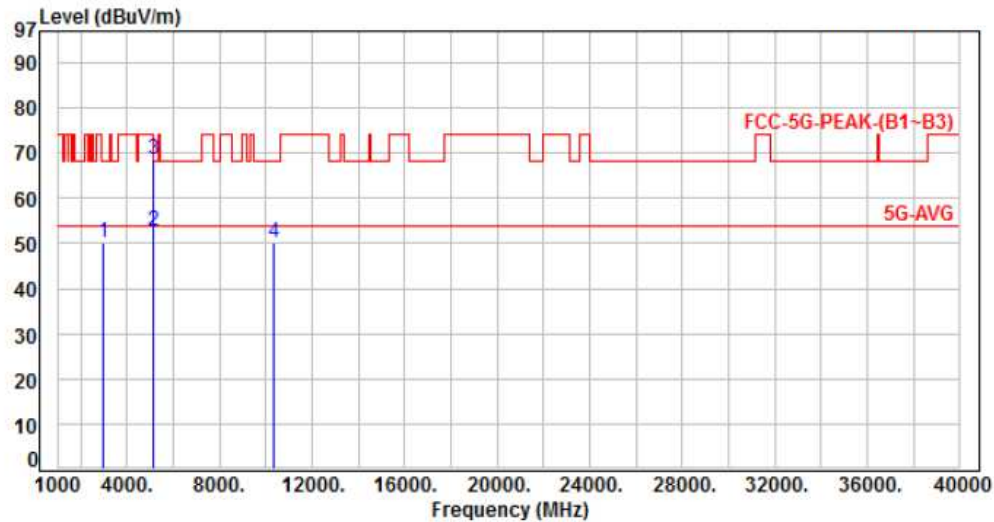
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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

Power	:	PoE	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH36	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3000.00	-12.85	63.06	50.21	68.20	-17.99	Peak	156	219	P
2	5150.00	-6.54	59.13	52.59	54.00	-1.41	Average	188	323	P
3	5150.00	-6.54	75.32	68.78	74.00	-5.22	Peak	188	323	P
4	10360.00	0.66	49.47	50.13	68.20	-18.07	Peak	128	158	P

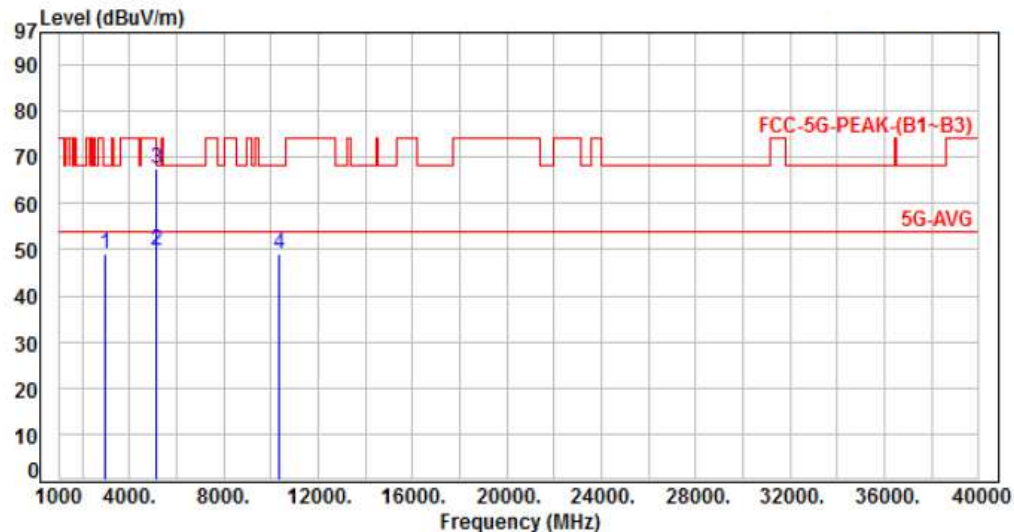
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH36	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3000.00	-12.85	61.90	49.05	68.20	-19.15	Peak	198	296	P
2	5150.00	-6.54	56.32	49.78	54.00	-4.22	Average	276	317	P
3	5150.00	-6.54	73.99	67.45	74.00	-6.55	Peak	276	317	P
4	10360.00	0.66	48.51	49.17	68.20	-19.03	Peak	256	318	P

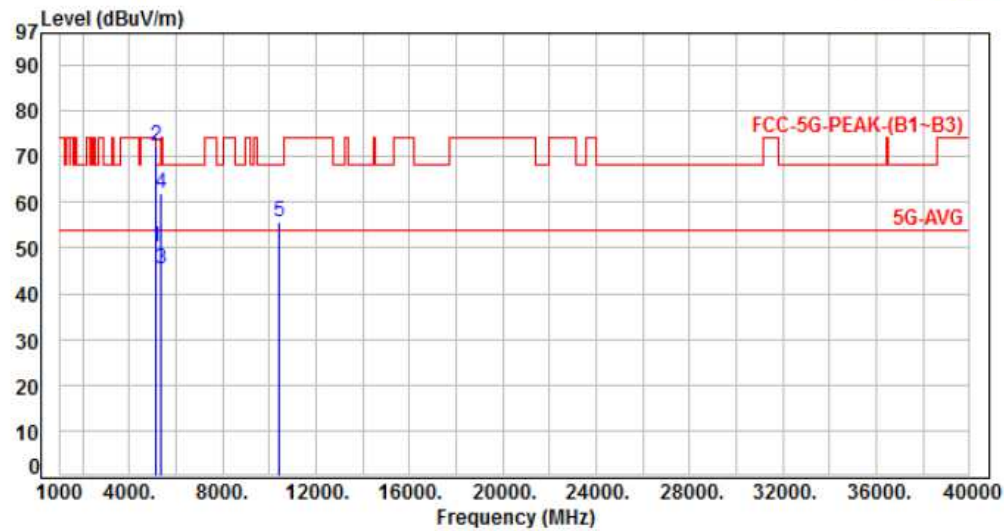
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH44	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	56.70	50.16	54.00	-3.84	Average	197	333	P
2	5150.00	-6.54	78.69	72.15	74.00	-1.85	Peak	197	333	P
3	5350.00	-6.06	51.48	45.42	54.00	-8.58	Average	197	333	P
4	5350.00	-6.06	67.85	61.79	74.00	-12.21	Peak	197	333	P
5	10440.00	0.70	54.82	55.52	68.20	-12.68	Peak	266	160	P

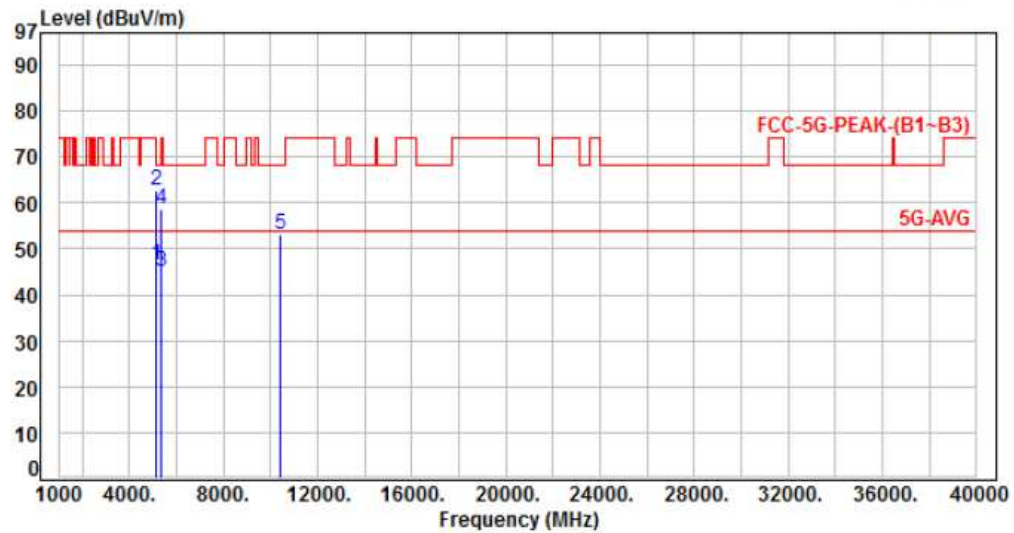
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH44	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	52.86	46.32	54.00	-7.68	Average	296	282	P
2	5150.00	-6.54	69.30	62.76	74.00	-11.24	Peak	296	282	P
3	5350.00	-6.06	51.18	45.12	54.00	-8.88	Average	296	282	P
4	5350.00	-6.06	64.88	58.82	74.00	-15.18	Peak	296	282	P
5	10440.00	0.70	52.27	52.97	68.20	-15.23	Peak	102	313	P

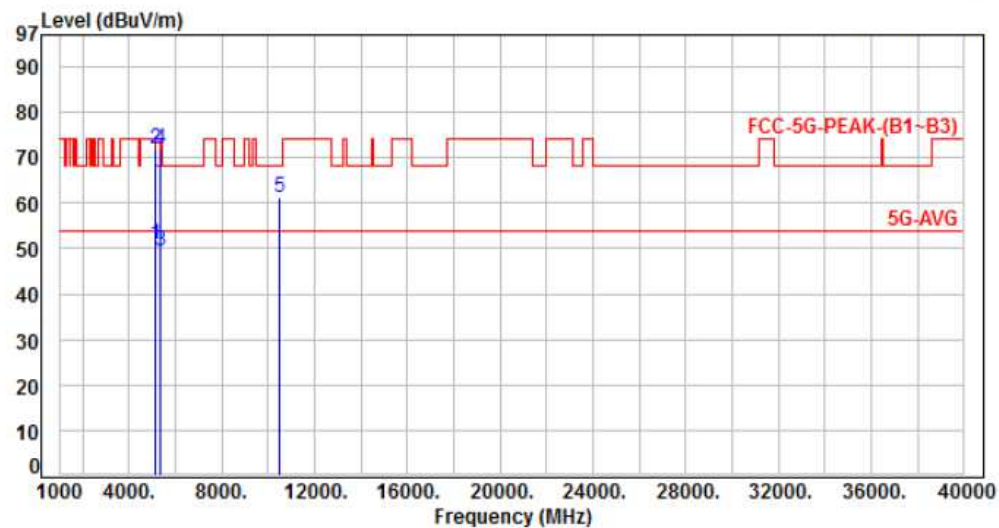
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH48	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	57.37	50.83	54.00	-3.17	Average	192	346	P
2	5150.00	-6.54	78.57	72.03	74.00	-1.97	Peak	192	346	P
3	5350.00	-6.06	55.54	49.48	54.00	-4.52	Average	192	346	P
4	5350.00	-6.06	77.96	71.90	74.00	-2.10	Peak	192	346	P
5	10480.00	0.73	60.65	61.38	68.20	-6.82	Peak	115	159	P

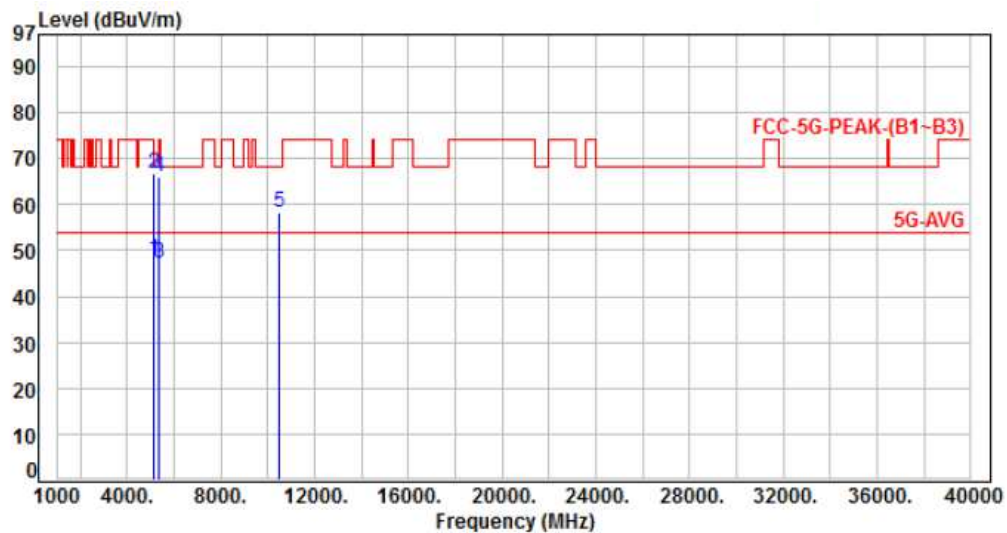
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH48	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	54.61	48.07	54.00	-5.93	Average	276	277	P
2	5150.00	-6.54	73.12	66.58	74.00	-7.42	Peak	276	277	P
3	5350.00	-6.06	53.10	47.04	54.00	-6.96	Average	276	277	P
4	5350.00	-6.06	72.05	65.99	74.00	-8.01	Peak	276	277	P
5	10480.00	0.73	57.67	58.40	68.20	-9.80	Peak	101	214	P

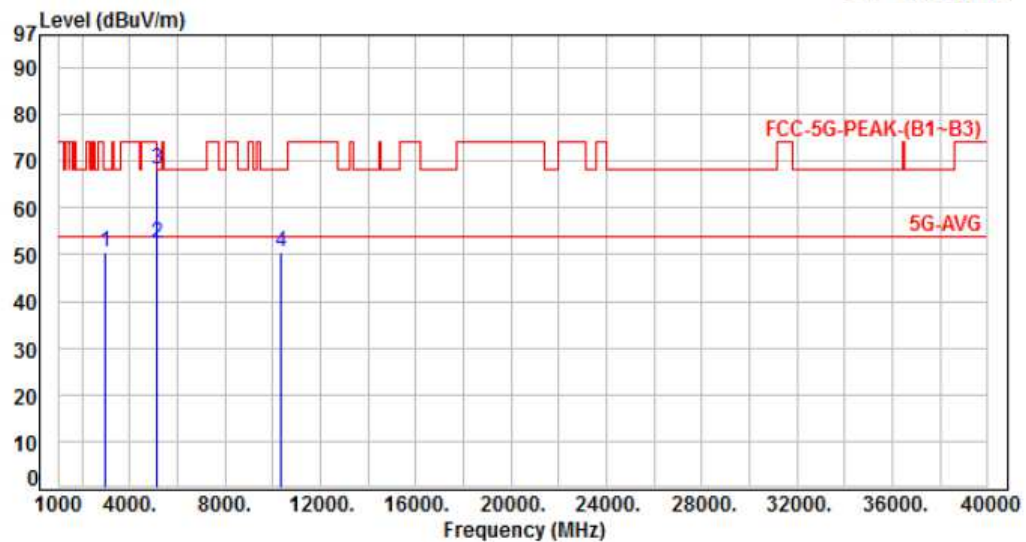
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH36	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3000.00	-12.85	63.48	50.63	68.20	-17.57	Peak	159	224	P
2	5150.00	-6.54	59.04	52.50	54.00	-1.50	Average	189	347	P
3	5150.00	-6.54	74.77	68.23	74.00	-5.77	Peak	189	347	P
4	10360.00	0.66	49.82	50.48	68.20	-17.72	Peak	130	163	P

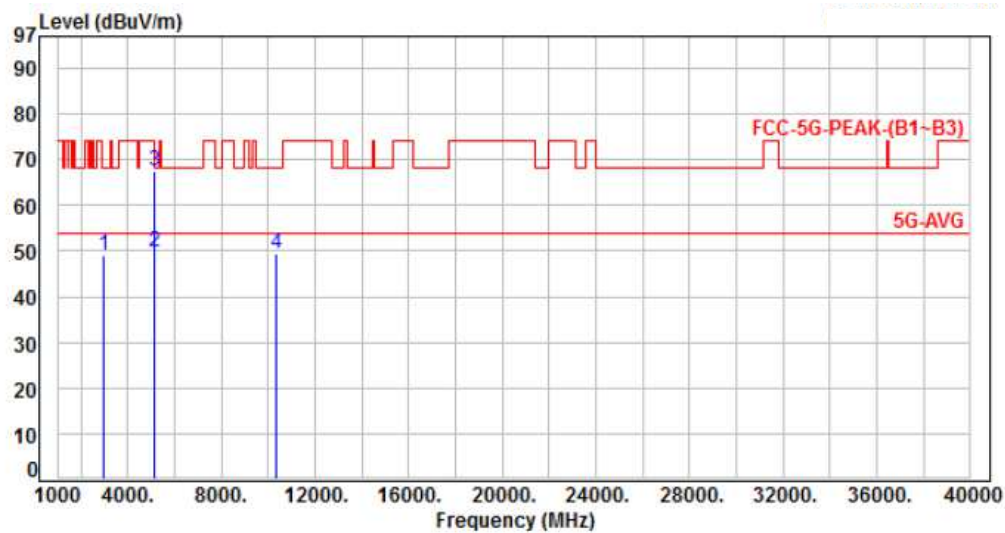
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH36	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3000.00	-12.85	62.03	49.18	68.20	-19.02	Peak	182	291	P
2	5150.00	-6.54	56.18	49.64	54.00	-4.36	Average	261	332	P
3	5150.00	-6.54	74.20	67.66	74.00	-6.34	Peak	261	332	P
4	10360.00	0.66	48.64	49.30	68.20	-18.90	Peak	251	308	P

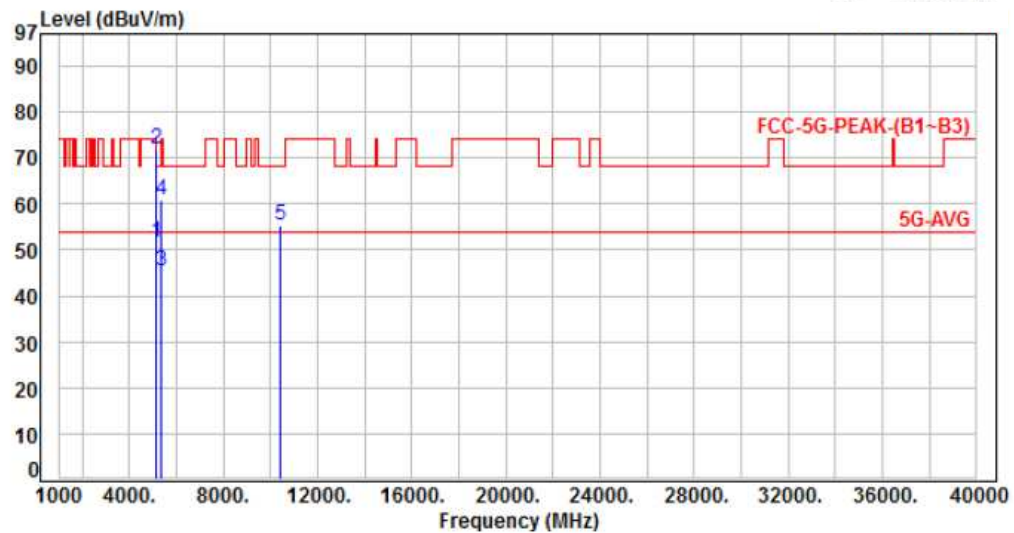
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH44	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	58.33	51.79	54.00	-2.21	Average	199	25	P
2	5150.00	-6.54	78.59	72.05	74.00	-1.95	Peak	199	25	P
3	5350.00	-6.06	51.57	45.51	54.00	-8.49	Average	199	25	P
4	5350.00	-6.06	66.83	60.77	74.00	-13.23	Peak	199	25	P
5	10440.00	0.70	54.66	55.36	68.20	-12.84	Peak	248	192	P

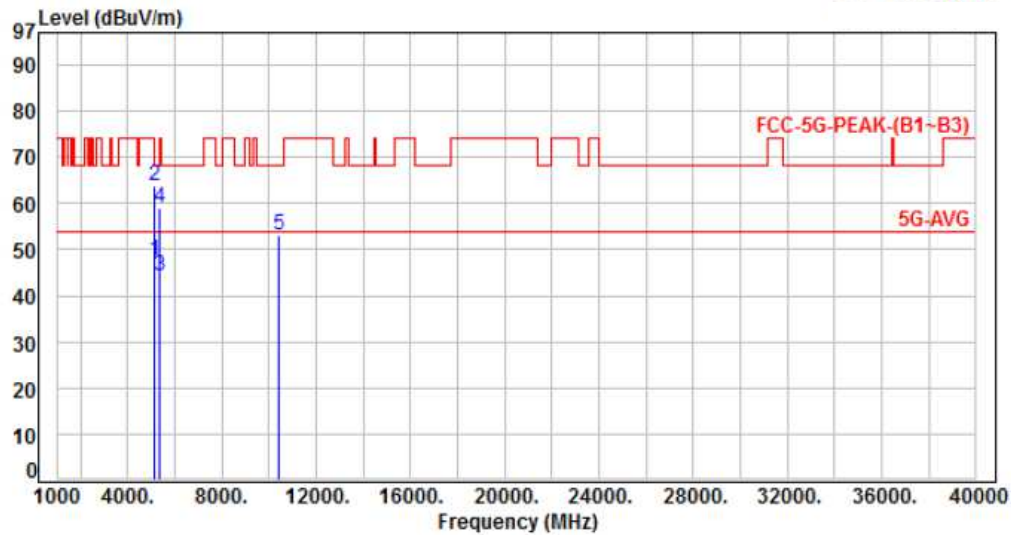
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH44	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	54.12	47.58	54.00	-6.42	Average	300	312	P
2	5150.00	-6.54	70.51	63.97	74.00	-10.03	Peak	300	312	P
3	5350.00	-6.06	50.44	44.38	54.00	-9.62	Average	300	312	P
4	5350.00	-6.06	65.08	59.02	74.00	-14.98	Peak	300	312	P
5	10440.00	0.70	52.54	53.24	68.20	-14.96	Peak	124	325	P

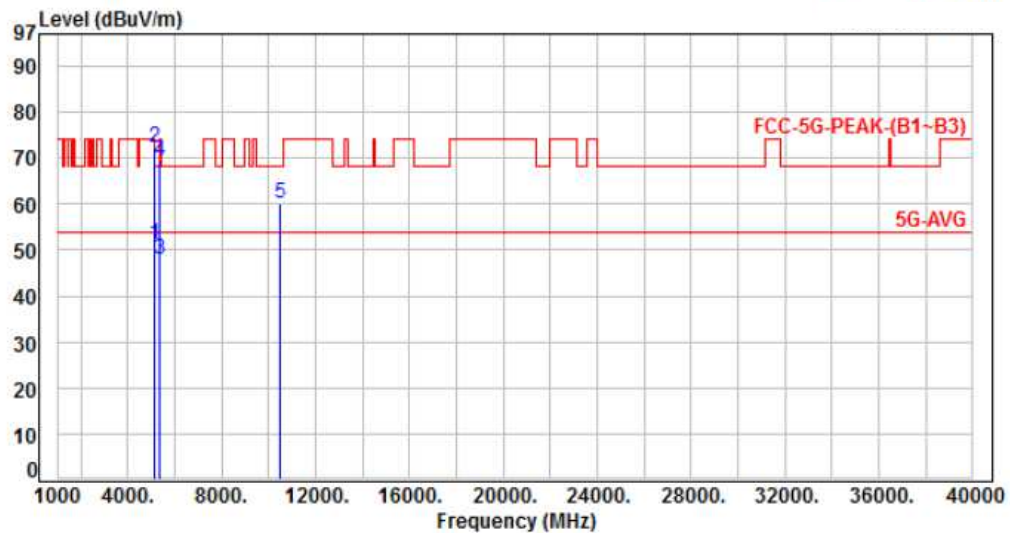
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH48	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	57.97	51.43	54.00	-2.57	Average	195	336	P
2	5150.00	-6.54	78.84	72.30	74.00	-1.70	Peak	195	336	P
3	5350.00	-6.06	53.95	47.89	54.00	-6.11	Average	195	336	P
4	5350.00	-6.06	75.35	69.29	74.00	-4.71	Peak	195	336	P
5	10480.00	0.73	59.48	60.21	68.20	-7.99	Peak	123	162	P

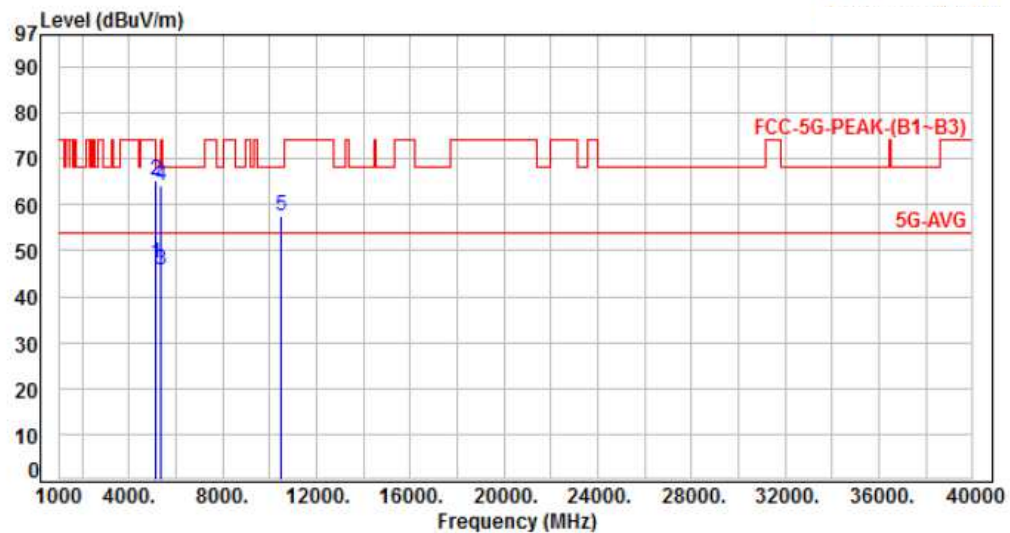
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH48	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	53.89	47.35	54.00	-6.65	Average	288	264	P
2	5150.00	-6.54	71.65	65.11	74.00	-8.89	Peak	288	264	P
3	5350.00	-6.06	51.66	45.60	54.00	-8.40	Average	288	264	P
4	5350.00	-6.06	70.31	64.25	74.00	-9.75	Peak	288	264	P
5	10480.00	0.73	56.81	57.54	68.20	-10.66	Peak	100	226	P

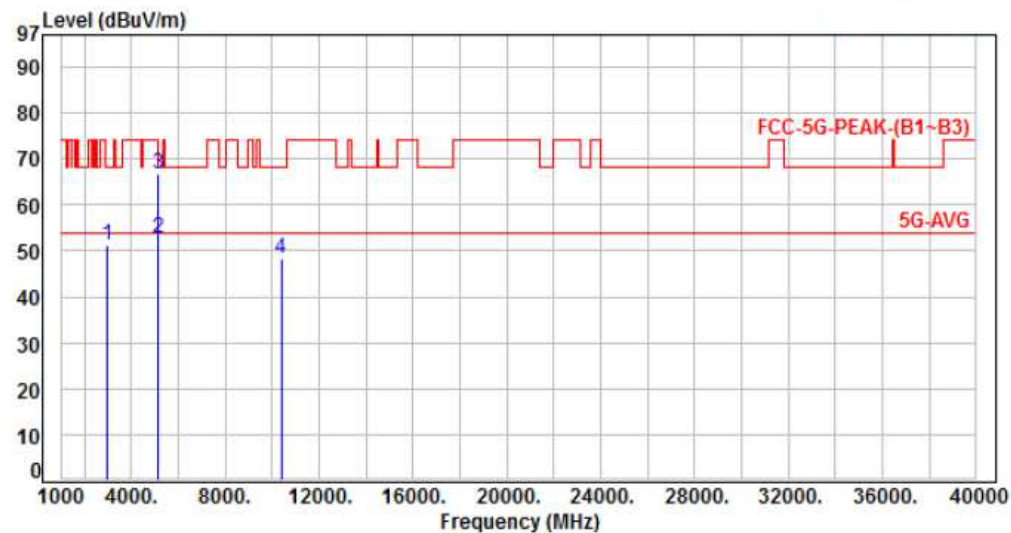
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, CH38	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3000.00	-12.85	64.21	51.36	68.20	-16.84	Peak	158	220	P
2	5150.00	-6.54	59.12	52.58	54.00	-1.42	Average	176	350	P
3	5150.00	-6.54	73.21	66.67	74.00	-7.33	Peak	176	350	P
4	10380.00	0.68	47.78	48.46	68.20	-19.74	Peak	125	331	P

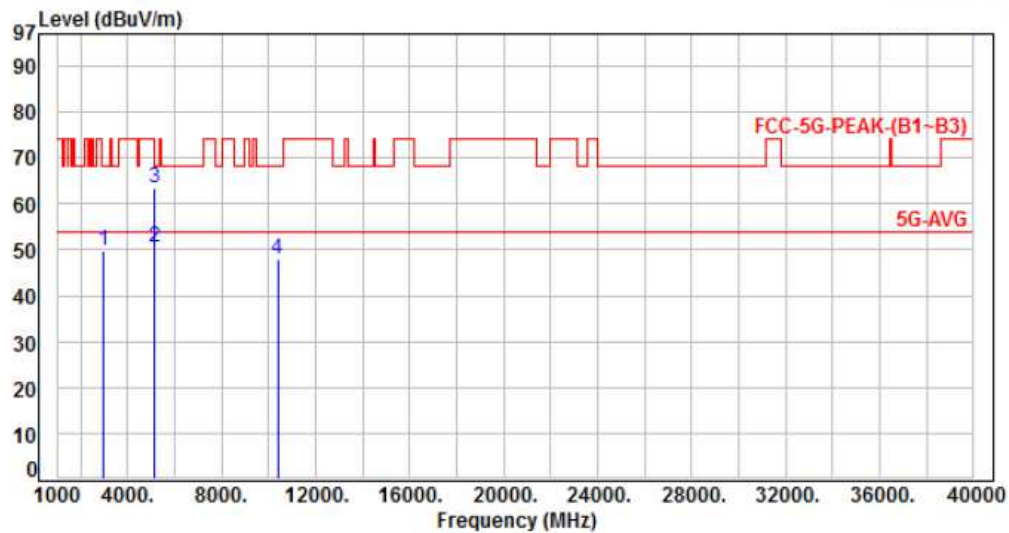
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH38	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3000.00	-12.85	62.77	49.92	68.20	-18.28	Peak	102	298	P
2	5150.00	-6.54	57.12	50.58	54.00	-3.42	Average	191	309	P
3	5150.00	-6.54	69.88	63.34	74.00	-10.66	Peak	191	309	P
4	10380.00	0.68	47.24	47.92	68.20	-20.28	Peak	136	313	P

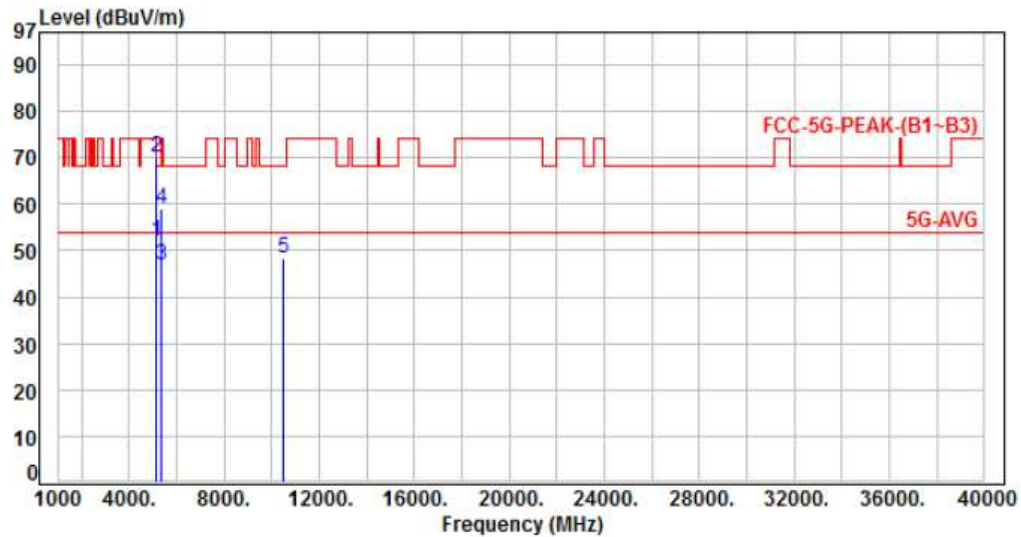
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, CH46	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	58.71	52.17	54.00	-1.83	Average	196	360	P
2	5150.00	-6.54	76.54	70.00	74.00	-4.00	Peak	196	360	P
3	5350.00	-6.06	52.99	46.93	54.00	-7.07	Average	196	360	P
4	5350.00	-6.06	65.11	59.05	74.00	-14.95	Peak	196	360	P
5	10460.00	0.72	47.75	48.47	68.20	-19.73	Peak	198	318	P

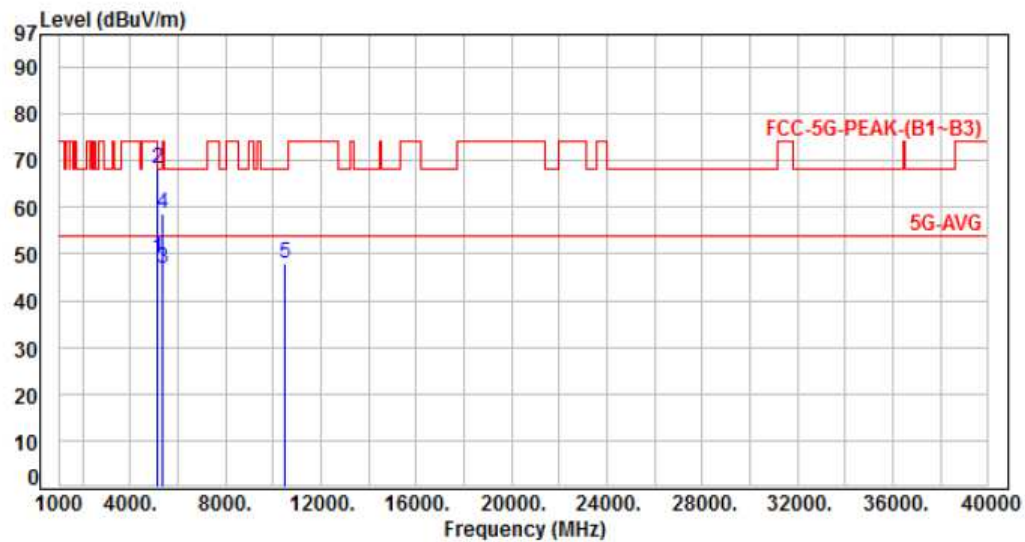
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH46	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	55.70	49.16	54.00	-4.84	Average	276	318	P
2	5150.00	-6.54	74.92	68.38	74.00	-5.62	Peak	276	318	P
3	5350.00	-6.06	52.81	46.75	54.00	-7.25	Average	276	318	P
4	5350.00	-6.06	64.76	58.70	74.00	-15.30	Peak	276	318	P
5	10460.00	0.72	47.26	47.98	68.20	-20.22	Peak	288	324	P

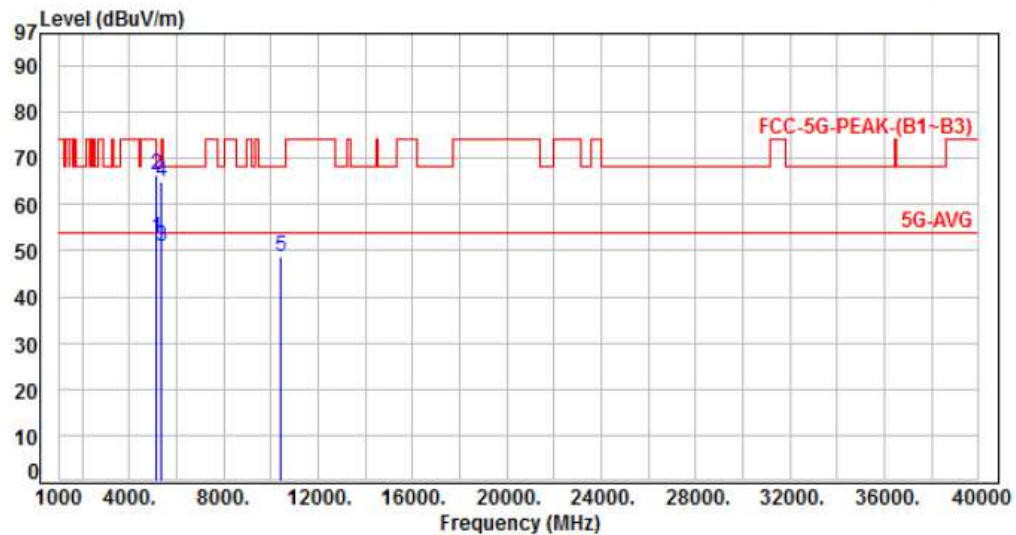
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, CH42	Temperature	: 25°C
Test Date	: Nov. 12, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	59.26	52.72	54.00	-1.28	Average	204	352	P
2	5150.00	-6.54	72.90	66.36	74.00	-7.64	Peak	204	352	P
3	5350.00	-6.06	56.85	50.79	54.00	-3.21	Average	204	352	P
4	5350.00	-6.06	71.13	65.07	74.00	-8.93	Peak	204	352	P
5	10420.00	0.69	48.14	48.83	68.20	-19.37	Peak	137	353	P

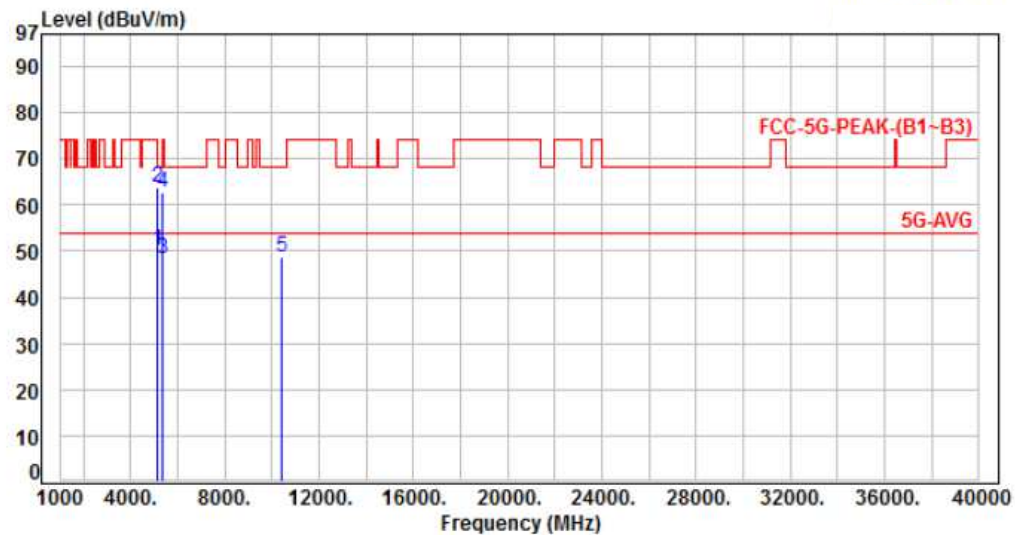
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH42	Temperature	:	25°C
Test Date	:	Nov. 12, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-6.54	56.79	50.25	54.00	-3.75	Average	312	268	P
2	5150.00	-6.54	70.32	63.78	74.00	-10.22	Peak	312	268	P
3	5350.00	-6.06	54.25	48.19	54.00	-5.81	Average	312	268	P
4	5350.00	-6.06	68.78	62.72	74.00	-11.28	Peak	312	268	P
5	10420.00	0.69	47.89	48.58	68.20	-19.62	Peak	100	298	P

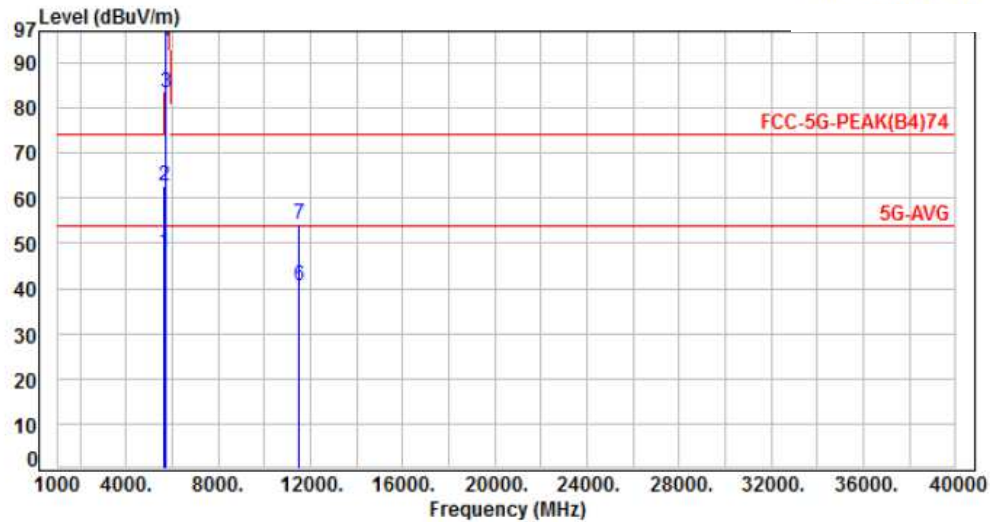
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH149	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	53.62	47.85	54.00	-6.15	Average	198	317	P
2	5650.00	-5.77	68.55	62.78	74.00	-11.22	Peak	198	317	P
3	5700.00	-5.79	89.03	83.24	105.20	-21.96	Peak	198	317	P
4	5720.00	-5.80	100.44	94.64	110.80	-16.16	Peak	198	317	P
5	5725.00	-5.80	111.13	105.33	122.20	-16.87	Peak	198	317	P
6	11490.00	2.06	38.52	40.58	54.00	-13.42	Average	100	130	P
7	11490.00	2.06	52.33	54.39	74.00	-19.61	Peak	100	130	P

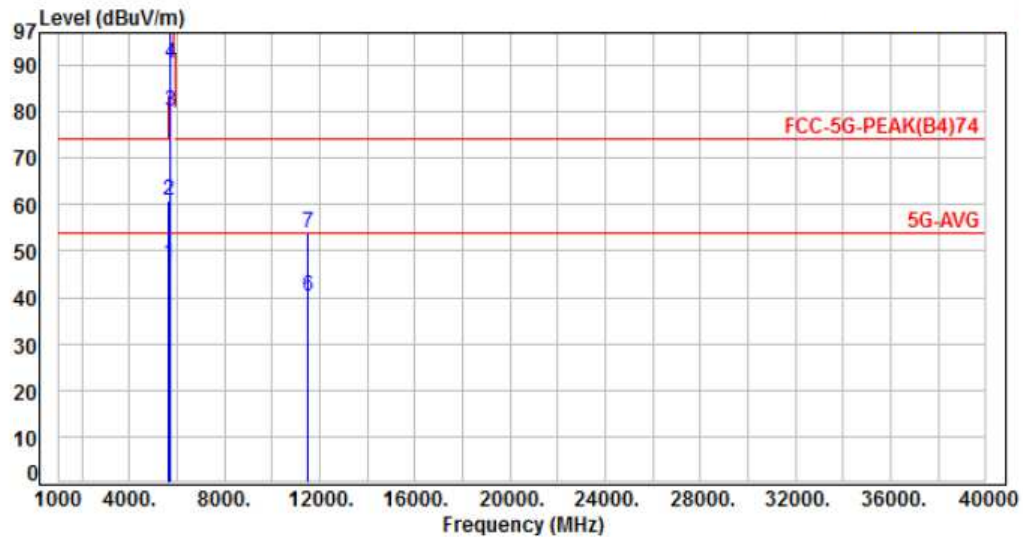
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH149	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	52.87	47.10	54.00	-6.90	Average	294	266	P
2	5650.00	-5.77	66.75	60.98	74.00	-13.02	Peak	294	266	P
3	5700.00	-5.79	85.71	79.92	105.20	-25.28	Peak	294	266	P
4	5720.00	-5.80	96.16	90.36	110.80	-20.44	Peak	294	266	P
5	5725.00	-5.80	105.35	99.55	122.20	-22.65	Peak	294	266	P
6	11490.00	2.06	37.97	40.03	54.00	-13.97	Average	212	198	P
7	11490.00	2.06	51.68	53.74	74.00	-20.26	Peak	212	198	P

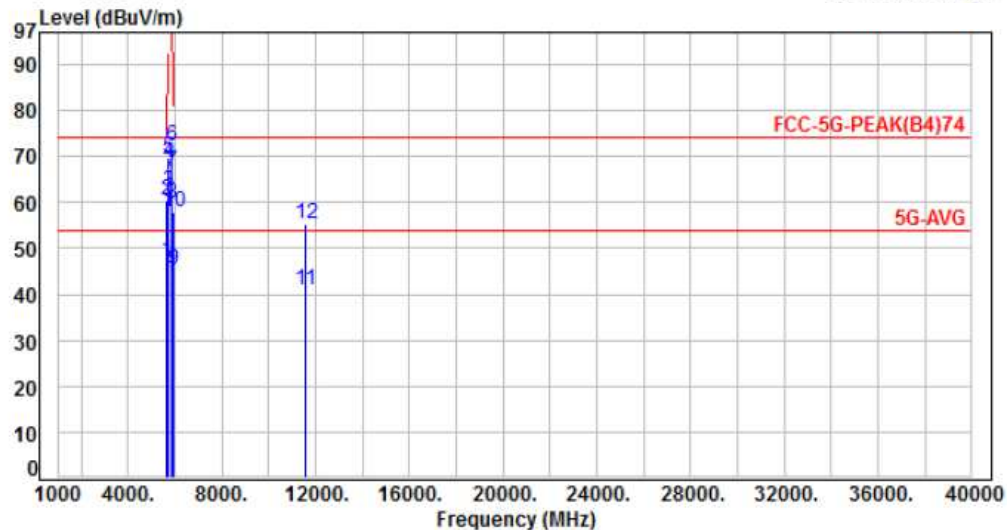
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH157	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	52.84	47.07	54.00	-6.93	Average	130	320	P
2	5650.00	-5.77	66.14	60.37	74.00	-13.63	Peak	130	320	P
3	5700.00	-5.79	68.04	62.25	105.20	-42.95	Peak	130	320	P
4	5720.00	-5.80	74.24	68.44	110.80	-42.36	Peak	130	320	P
5	5725.00	-5.80	75.65	69.85	122.20	-52.35	Peak	130	320	P
6	5850.00	-5.84	78.17	72.33	122.20	-49.87	Peak	130	320	P
7	5855.00	-5.84	72.50	66.66	110.80	-44.14	Peak	130	320	P
8	5875.00	-5.85	65.67	59.82	105.20	-45.38	Peak	130	320	P
9	5925.00	-5.87	51.33	45.46	54.00	-8.54	Average	130	320	P
10	5925.00	-5.87	63.71	57.84	74.00	-16.16	Peak	130	320	P
11	11570.00	2.09	38.87	40.96	54.00	-13.04	Average	149	286	P
12	11570.00	2.09	53.21	55.30	74.00	-18.70	Peak	149	286	P

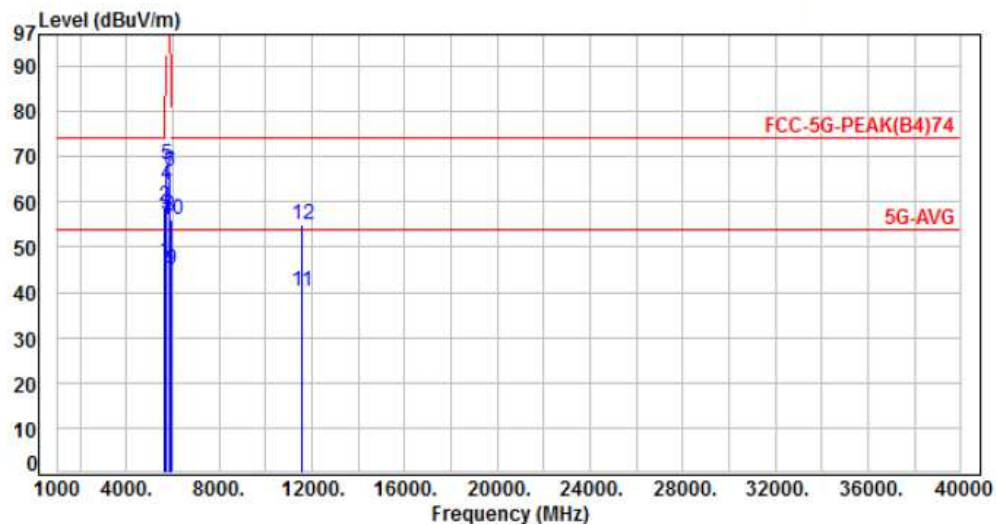
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH157	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	52.66	46.89	54.00	-7.11	Average	100	276	P
2	5650.00	-5.77	64.90	59.13	74.00	-14.87	Peak	100	276	P
3	5700.00	-5.79	62.92	57.13	105.20	-48.07	Peak	100	276	P
4	5720.00	-5.80	69.54	63.74	110.80	-47.06	Peak	100	276	P
5	5725.00	-5.80	74.10	68.30	122.20	-53.90	Peak	100	276	P
6	5850.00	-5.84	72.46	66.62	122.20	-55.58	Peak	100	276	P
7	5855.00	-5.84	72.06	66.22	110.80	-44.58	Peak	100	276	P
8	5875.00	-5.85	62.81	56.96	105.20	-48.24	Peak	100	276	P
9	5925.00	-5.87	50.74	44.87	54.00	-9.13	Average	100	276	P
10	5925.00	-5.87	61.99	56.12	74.00	-17.88	Peak	100	276	P
11	11570.00	2.09	37.98	40.07	54.00	-13.93	Average	100	198	P
12	11570.00	2.09	52.73	54.82	74.00	-19.18	Peak	100	198	P

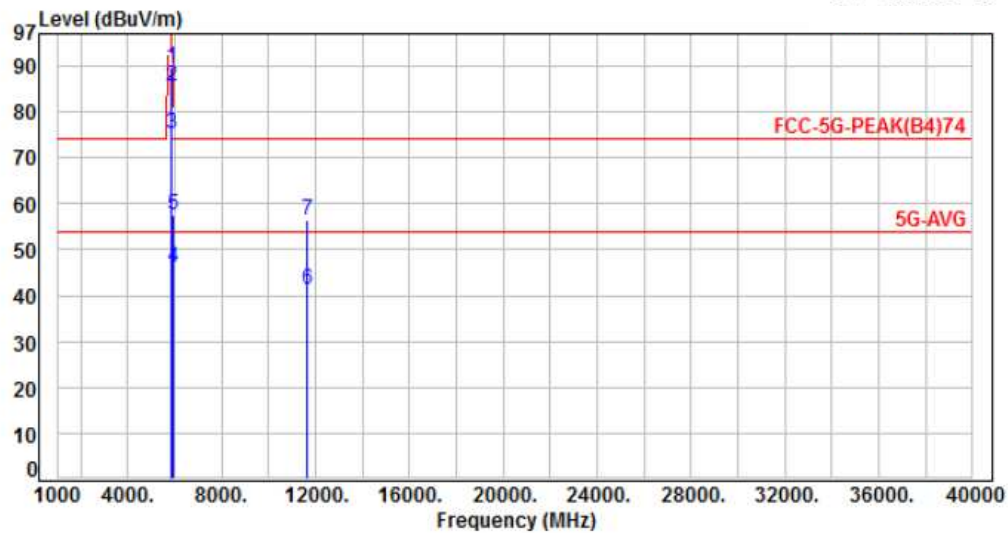
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH165	Temperature	:	25°C
Test Date	:	Nov. 18, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.84	95.54	89.70	122.20	-32.50	Peak	102	337	P
2	5855.00	-5.84	91.53	85.69	110.80	-25.11	Peak	102	337	P
3	5875.00	-5.85	81.15	75.30	105.20	-29.90	Peak	102	337	P
4	5925.00	-5.87	51.97	46.10	54.00	-7.90	Average	102	337	P
5	5925.00	-5.87	63.35	57.48	74.00	-16.52	Peak	102	337	P
6	11650.00	2.12	39.27	41.39	54.00	-12.61	Average	158	246	P
7	11650.00	2.12	54.25	56.37	74.00	-17.63	Peak	158	246	P

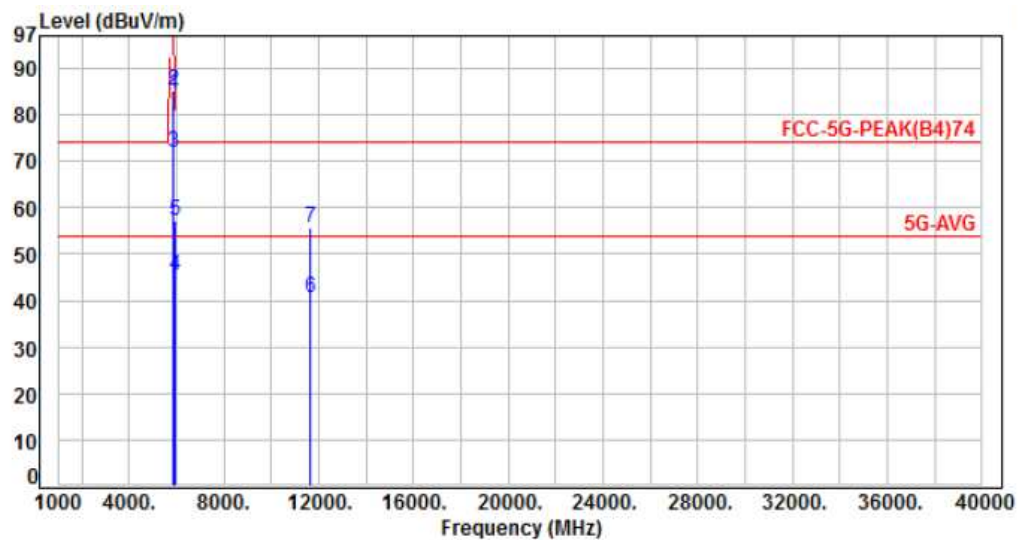
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH165	Temperature	:	25°C
Test Date	:	Nov. 18, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.84	90.12	84.28	122.20	-37.92	Peak	100	262	P
2	5855.00	-5.84	90.92	85.08	110.80	-25.72	Peak	100	262	P
3	5875.00	-5.85	77.73	71.88	105.20	-33.32	Peak	100	262	P
4	5925.00	-5.87	51.39	45.52	54.00	-8.48	Average	100	262	P
5	5925.00	-5.87	62.97	57.10	74.00	-16.90	Peak	100	262	P
6	11650.00	2.12	38.38	40.50	54.00	-13.50	Average	242	258	P
7	11650.00	2.12	53.41	55.53	74.00	-18.47	Peak	242	258	P

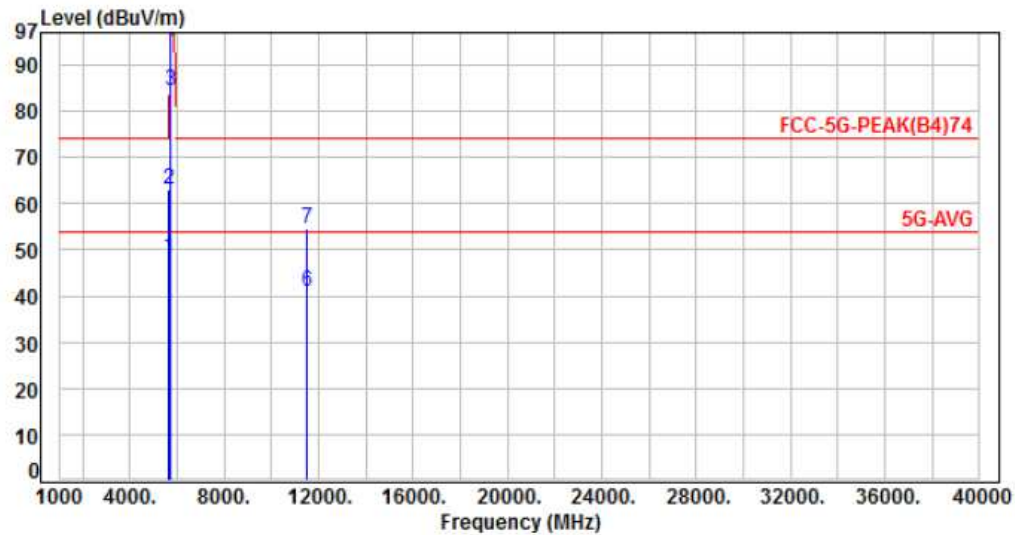
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH149	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	54.13	48.36	54.00	-5.64	Average	211	306	P
2	5650.00	-5.77	68.78	63.01	74.00	-10.99	Peak	211	306	P
3	5700.00	-5.79	90.37	84.58	105.20	-20.62	Peak	211	306	P
4	5720.00	-5.80	101.13	95.33	110.80	-15.47	Peak	211	306	P
5	5725.00	-5.80	111.85	106.05	122.20	-16.15	Peak	211	306	P
6	11490.00	2.06	38.79	40.85	54.00	-13.15	Average	102	148	P
7	11490.00	2.06	52.65	54.71	74.00	-19.29	Peak	102	148	P

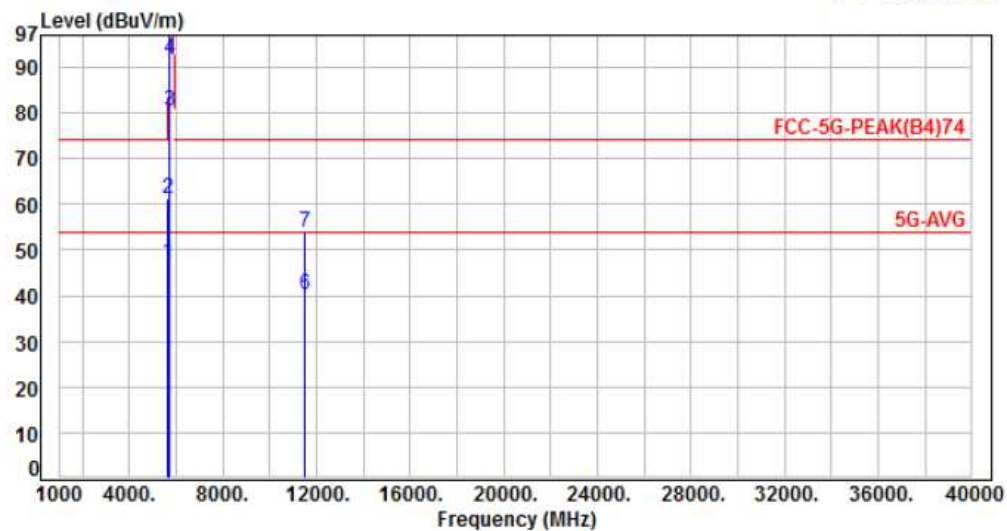
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH149	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	53.15	47.38	54.00	-6.62	Average	288	264	P
2	5650.00	-5.77	66.93	61.16	74.00	-12.84	Peak	288	264	P
3	5700.00	-5.79	86.37	80.58	105.20	-24.62	Peak	288	264	P
4	5720.00	-5.80	97.78	91.98	110.80	-18.82	Peak	288	264	P
5	5725.00	-5.80	105.93	100.13	122.20	-22.07	Peak	288	264	P
6	11490.00	2.06	38.16	40.22	54.00	-13.78	Average	200	214	P
7	11490.00	2.06	51.97	54.03	74.00	-19.97	Peak	200	214	P

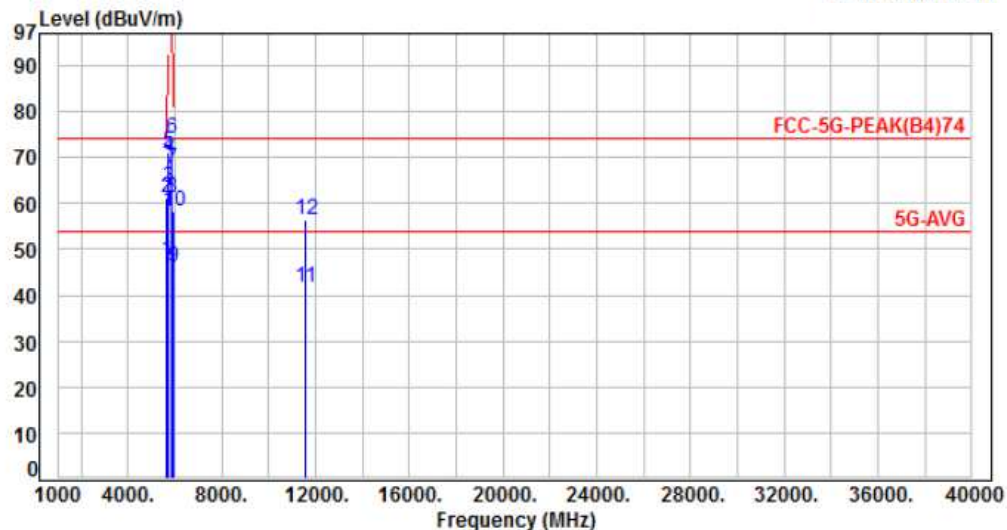
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH157	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	53.36	47.59	54.00	-6.41	Average	124	311	P
2	5650.00	-5.77	66.97	61.20	74.00	-12.80	Peak	124	311	P
3	5700.00	-5.79	69.31	63.52	105.20	-41.68	Peak	124	311	P
4	5720.00	-5.80	75.87	70.07	110.80	-40.73	Peak	124	311	P
5	5725.00	-5.80	77.15	71.35	122.20	-50.85	Peak	124	311	P
6	5850.00	-5.84	79.89	74.05	122.20	-48.15	Peak	124	311	P
7	5855.00	-5.84	73.17	67.33	110.80	-43.47	Peak	124	311	P
8	5875.00	-5.85	66.97	61.12	105.20	-44.08	Peak	124	311	P
9	5925.00	-5.87	51.84	45.97	54.00	-8.03	Average	124	311	P
10	5925.00	-5.87	64.18	58.31	74.00	-15.69	Peak	124	311	P
11	11570.00	2.09	39.45	41.54	54.00	-12.46	Average	156	297	P
12	11570.00	2.09	54.37	56.46	74.00	-17.54	Peak	156	297	P

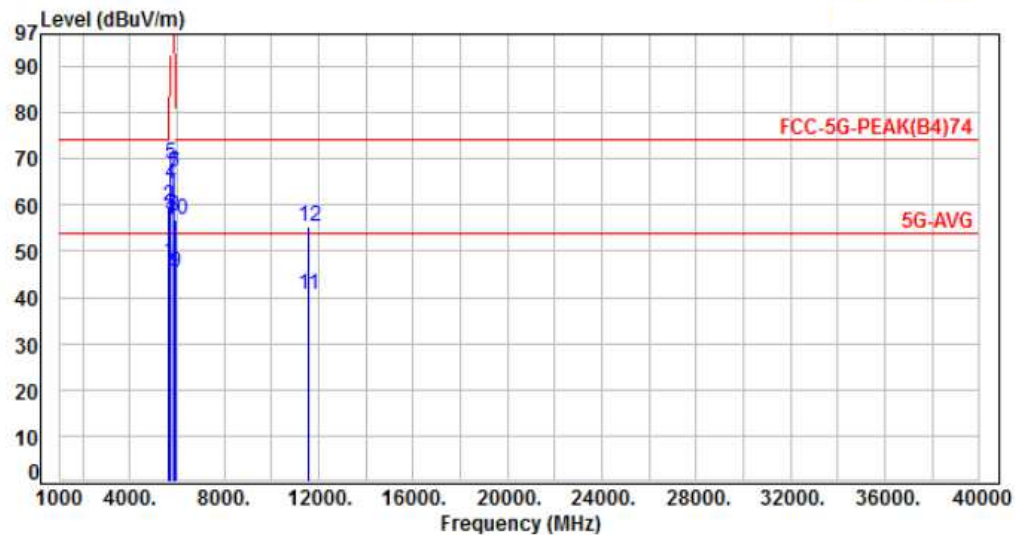
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH157	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	53.18	47.41	54.00	-6.59	Average	102	291	P
2	5650.00	-5.77	65.45	59.68	74.00	-14.32	Peak	102	291	P
3	5700.00	-5.79	63.57	57.78	105.20	-47.42	Peak	102	291	P
4	5720.00	-5.80	70.24	64.44	110.80	-46.36	Peak	102	291	P
5	5725.00	-5.80	74.59	68.79	122.20	-53.41	Peak	102	291	P
6	5850.00	-5.84	73.15	67.31	122.20	-54.89	Peak	102	291	P
7	5855.00	-5.84	72.78	66.94	110.80	-43.86	Peak	102	291	P
8	5875.00	-5.85	63.37	57.52	105.20	-47.68	Peak	102	291	P
9	5925.00	-5.87	51.18	45.31	54.00	-8.69	Average	102	291	P
10	5925.00	-5.87	62.55	56.68	74.00	-17.32	Peak	102	291	P
11	11570.00	2.09	38.61	40.70	54.00	-13.30	Average	100	202	P
12	11570.00	2.09	53.17	55.26	74.00	-18.74	Peak	100	202	P

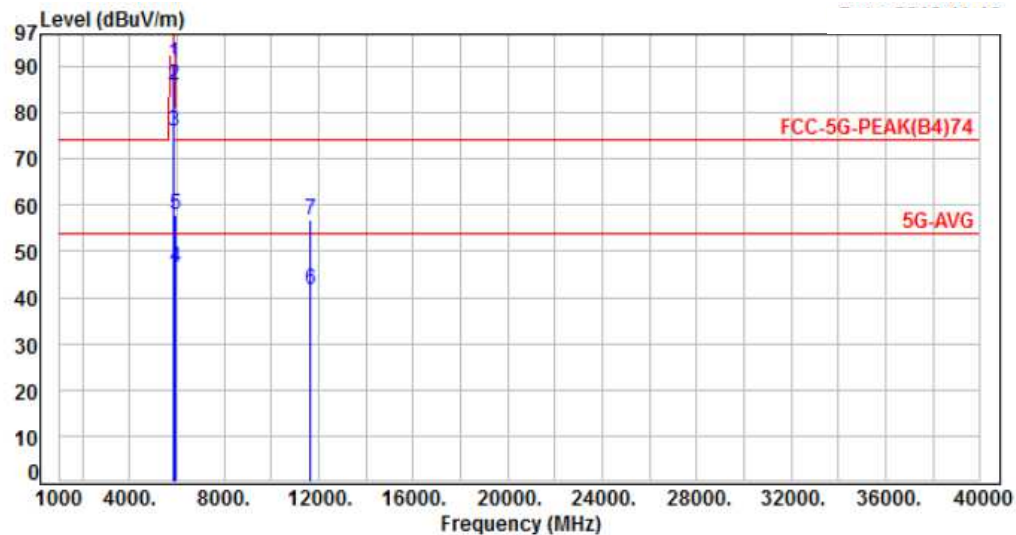
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH165	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.84	96.62	90.78	122.20	-31.42	Peak	110	345	P
2	5855.00	-5.84	91.89	86.05	110.80	-24.75	Peak	110	345	P
3	5875.00	-5.85	81.73	75.88	105.20	-29.32	Peak	110	345	P
4	5925.00	-5.87	52.31	46.44	54.00	-7.56	Average	110	345	P
5	5925.00	-5.87	63.85	57.98	74.00	-16.02	Peak	110	345	P
6	11650.00	2.12	39.67	41.79	54.00	-12.21	Average	162	253	P
7	11650.00	2.12	54.71	56.83	74.00	-17.17	Peak	162	253	P

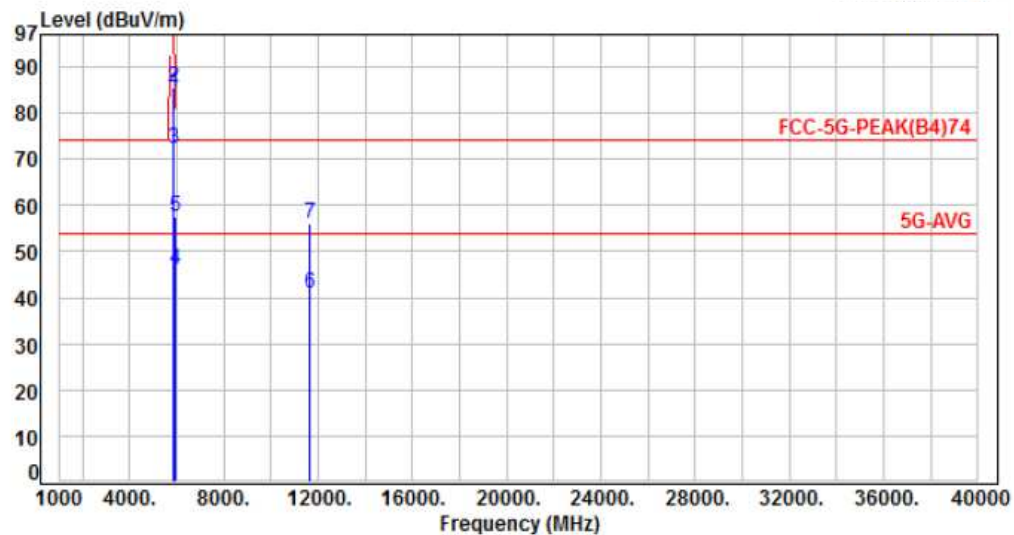
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH165	Temperature	:	25°C
Test Date	:	Nov. 18, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.84	90.45	84.61	122.20	-37.59	Peak	104	278	P
2	5855.00	-5.84	91.37	85.53	110.80	-25.27	Peak	104	278	P
3	5875.00	-5.85	78.25	72.40	105.20	-32.80	Peak	104	278	P
4	5925.00	-5.87	51.79	45.92	54.00	-8.08	Average	104	278	P
5	5925.00	-5.87	63.27	57.40	74.00	-16.60	Peak	104	278	P
6	11650.00	2.12	38.69	40.81	54.00	-13.19	Average	221	265	P
7	11650.00	2.12	53.91	56.03	74.00	-17.97	Peak	221	265	P

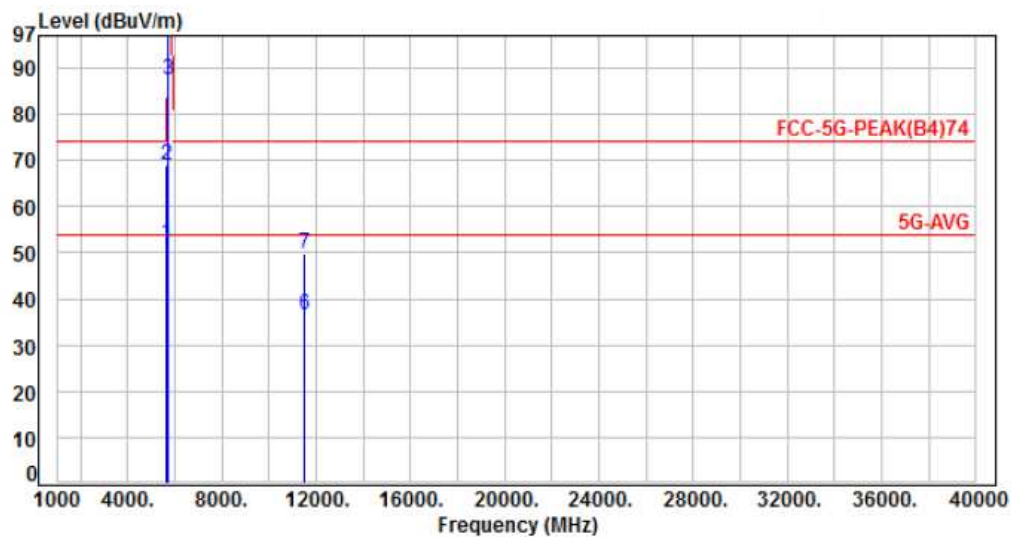
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, CH151	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	57.93	52.16	54.00	-1.84	Average	191	344	P
2	5650.00	-5.77	74.63	68.86	74.00	-5.14	Peak	191	344	P
3	5700.00	-5.79	93.02	87.23	105.20	-17.97	Peak	191	344	P
4	5720.00	-5.80	104.06	98.26	110.80	-12.54	Peak	145	353	P
5	5725.00	-5.80	105.26	99.46	122.20	-22.74	Peak	145	353	P
6	11510.00	2.07	34.53	36.60	54.00	-17.40	Average	100	212	P
7	11510.00	2.07	47.90	49.97	74.00	-24.03	Peak	100	212	P

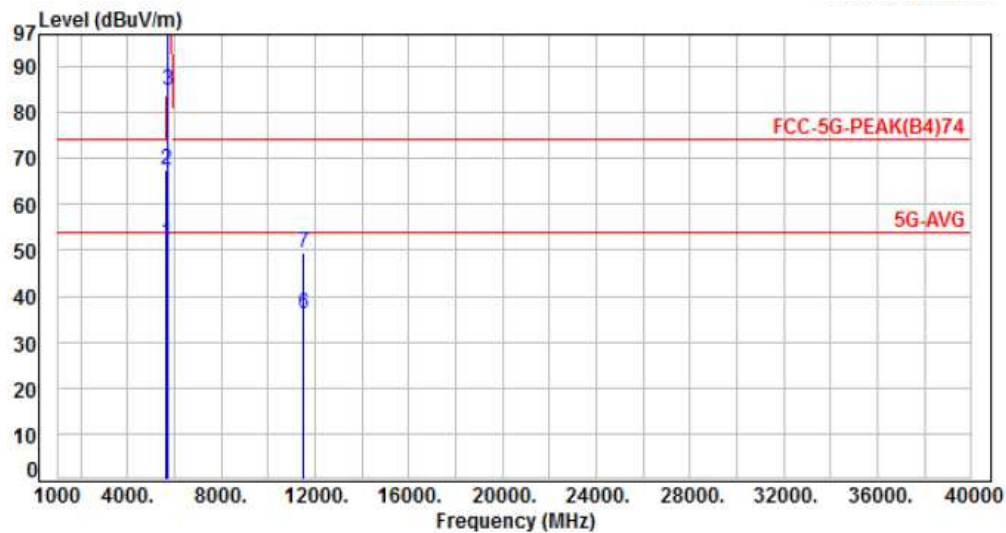
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, CH151	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	57.32	51.55	54.00	-2.45	Average	251	304	P
2	5650.00	-5.77	73.42	67.65	74.00	-6.35	Peak	251	304	P
3	5700.00	-5.79	90.45	84.66	105.20	-20.54	Peak	251	304	P
4	5720.00	-5.80	103.85	98.05	110.80	-12.75	Peak	251	304	P
5	5725.00	-5.80	102.76	96.96	122.20	-25.24	Peak	251	304	P
6	11510.00	2.07	33.97	36.04	54.00	-17.96	Average	255	237	P
7	11510.00	2.07	47.31	49.38	74.00	-24.62	Peak	255	237	P

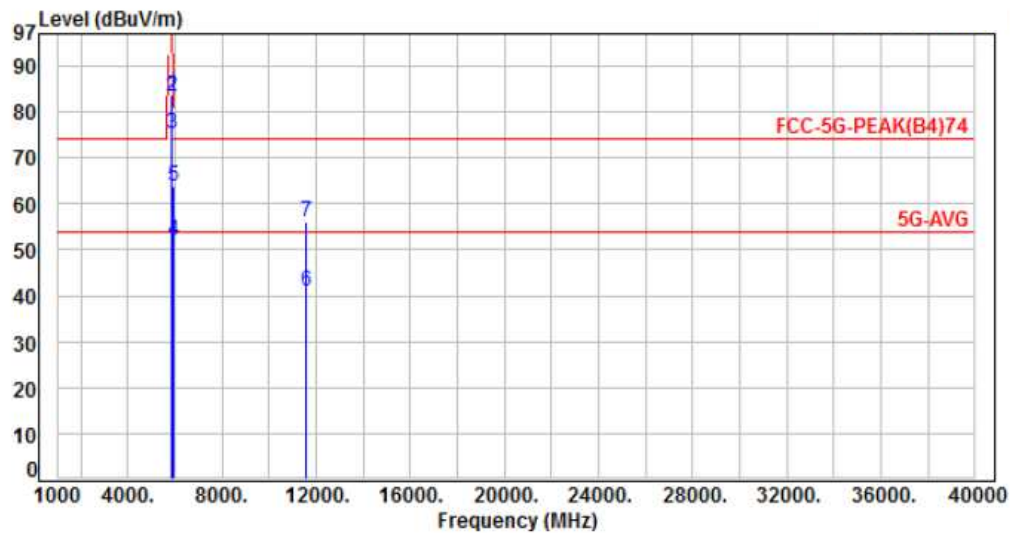
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, CH159	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.84	89.46	83.62	122.20	-38.58	Peak	202	297	P
2	5855.00	-5.84	89.19	83.35	110.80	-27.45	Peak	202	297	P
3	5875.00	-5.85	81.00	75.15	105.20	-30.05	Peak	202	297	P
4	5925.00	-5.87	58.03	52.16	54.00	-1.84	Average	202	297	P
5	5925.00	-5.87	69.67	63.80	74.00	-10.20	Peak	202	297	P
6	11590.00	2.10	38.96	41.06	54.00	-12.94	Average	187	244	P
7	11590.00	2.10	53.92	56.02	74.00	-17.98	Peak	187	244	P

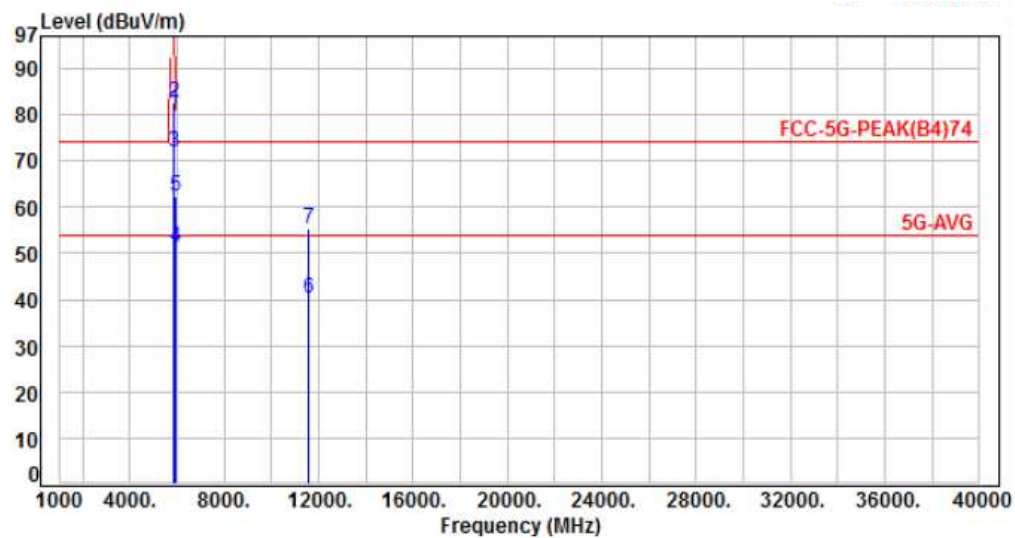
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, CH159	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.84	86.96	81.12	122.20	-41.08	Peak	102	173	P
2	5855.00	-5.84	88.64	82.80	110.80	-28.00	Peak	102	173	P
3	5875.00	-5.85	77.59	71.74	105.20	-33.46	Peak	102	173	P
4	5925.00	-5.87	57.28	51.41	54.00	-2.59	Average	102	173	P
5	5925.00	-5.87	68.18	62.31	74.00	-11.69	Peak	102	173	P
6	11590.00	2.10	38.15	40.25	54.00	-13.75	Average	100	224	P
7	11590.00	2.10	53.37	55.47	74.00	-18.53	Peak	100	224	P

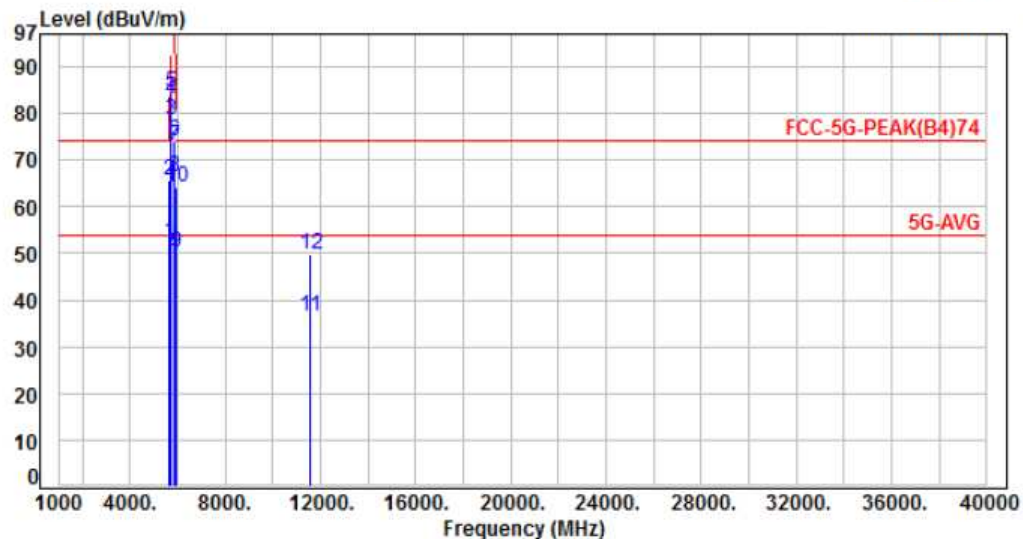
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, CH155	Temperature	: 25°C
Test Date	: Nov. 18, 2016	Humidity	: 60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	58.04	52.27	54.00	-1.73	Average	176	342	P
2	5650.00	-5.77	71.57	65.80	74.00	-8.20	Peak	176	342	P
3	5700.00	-5.79	84.37	78.58	105.20	-26.62	Peak	176	342	P
4	5720.00	-5.80	88.73	82.93	110.80	-27.87	Peak	176	342	P
5	5725.00	-5.80	90.19	84.39	122.20	-37.81	Peak	176	342	P
6	5850.00	-5.84	79.92	74.08	122.20	-48.12	Peak	176	342	P
7	5855.00	-5.84	78.72	72.88	110.80	-37.92	Peak	176	342	P
8	5875.00	-5.85	72.35	66.50	105.20	-38.70	Peak	176	342	P
9	5925.00	-5.87	56.15	50.28	54.00	-3.72	Average	176	342	P
10	5925.00	-5.87	69.99	64.12	74.00	-9.88	Peak	176	342	P
11	11550.00	2.09	34.58	36.67	54.00	-17.33	Average	102	158	P
12	11550.00	2.09	47.73	49.82	74.00	-24.18	Peak	102	158	P

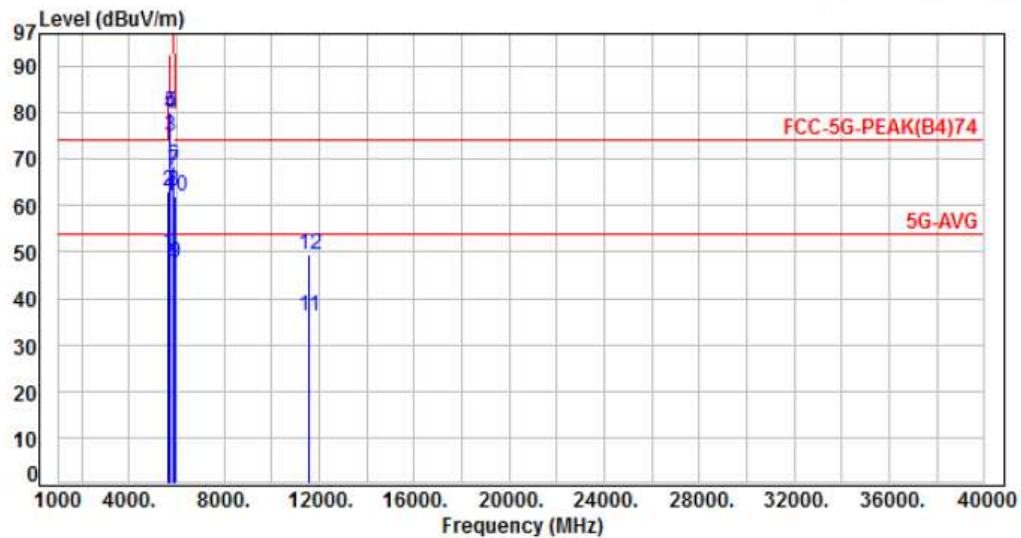
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	PoE	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH155	Temperature	:	25°C
Test Date	:	Nov. 18, 2016	Humidity	:	60%



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.77	55.64	49.87	54.00	-4.13	Average	312	286	P
2	5650.00	-5.77	68.92	63.15	74.00	-10.85	Peak	312	286	P
3	5700.00	-5.79	80.84	75.05	105.20	-30.15	Peak	312	286	P
4	5720.00	-5.80	85.32	79.52	110.80	-31.28	Peak	312	286	P
5	5725.00	-5.80	85.66	79.86	122.20	-42.34	Peak	312	286	P
6	5850.00	-5.84	74.35	68.51	122.20	-53.69	Peak	312	286	P
7	5855.00	-5.84	73.21	67.37	110.80	-43.43	Peak	312	286	P
8	5875.00	-5.85	68.75	62.90	105.20	-42.30	Peak	312	286	P
9	5925.00	-5.87	53.56	47.69	54.00	-6.31	Average	312	286	P
10	5925.00	-5.87	67.69	61.82	74.00	-12.18	Peak	312	286	P
11	11550.00	2.09	34.12	36.21	54.00	-17.79	Average	298	244	P
12	11550.00	2.09	47.31	49.40	74.00	-24.60	Peak	298	244	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

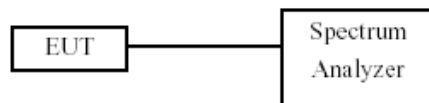
7.1. Test Limit

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

Temperature: 24°C

Humidity: 65%

Test Date: Nov. 30, 2016

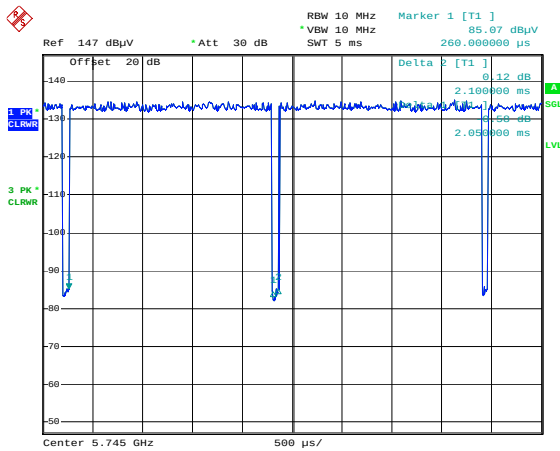
Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)	1/T Minimum VBW(Hz)	Duty Cycle correction Factor (dB)
802.11a	2.05	2.10	97.62%	487.80	0.10
802.11ac VHT20	1.92	1.97	97.46%	520.83	0.11
802.11ac VHT40	0.85	1.00	85.00%	1176.47	0.71
802.11ac VHT80	0.47	0.52	90.00%	2136.75	0.46

7.5. Measurement Methods

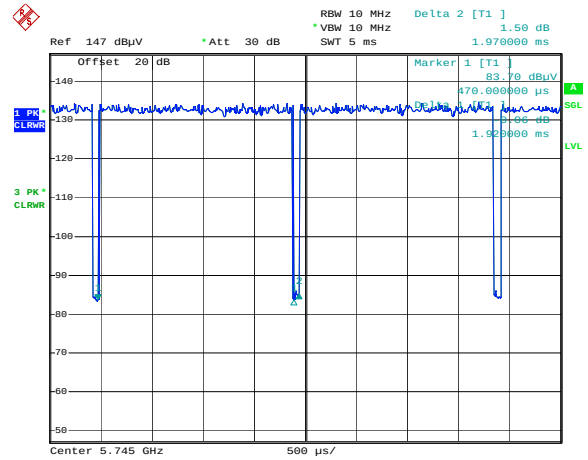
26 dB and 6dB Emission BW	KDB 789033 D02 v01, Section C
99% Occupied BW	KDB 789033 D02 v01, Section D
Conducted Output Power	KDB 789033 D02 v01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 D02 v01, Sections G and H



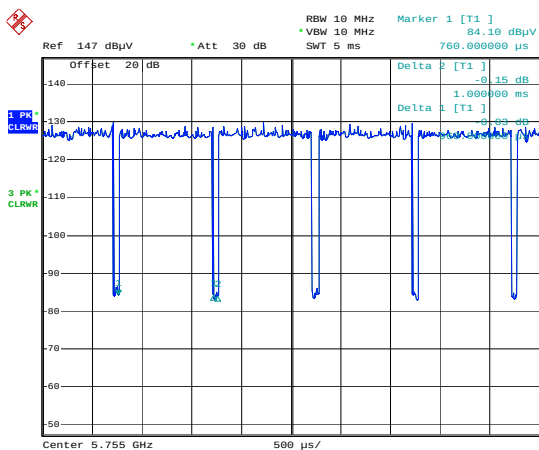
Modulation Standard: 802.11a (6Mbps)



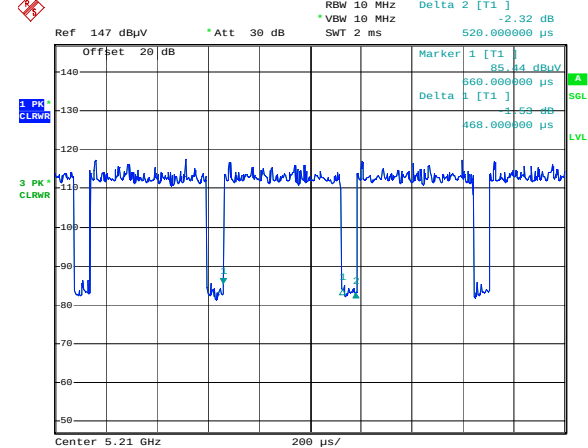
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)



Modulation Standard: 802.11ac, VHT40 (13.5Mbps)



Modulation Standard: 802.11ac, VHT80 (29.3Mbps)





8. 6dB Bandwidth

8.1. Test Limit

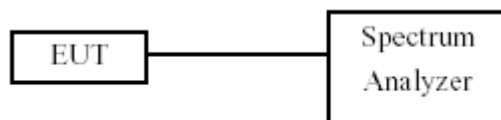
FCC §15.407

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 $\geq 3 \times$ RBW, peak detector and max hold.

8.3. Test Setup Layout



8.4. Test Result and Data

Temperature: 24°C

Humidity: 65%

Test Date: Nov. 30, 2016

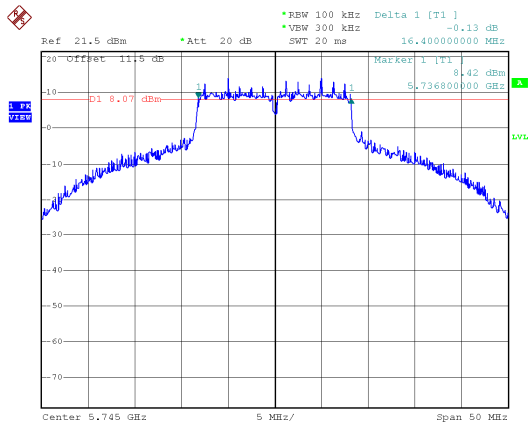
In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Minimum Limit (MHz)
			ANT 1	ANT 2	ANT 3	
802.11a	149	5745	16.40	16.40	16.40	0.50
	157	5785	16.40	16.40	16.40	0.50
	165	5825	16.30	16.30	16.30	0.50
802.11ac VHT20	149	5745	17.60	17.60	17.60	0.50
	157	5785	17.60	17.60	17.60	0.50
	165	5825	17.50	17.50	17.50	0.50
802.11ac VHT40	151	5755	36.20	36.00	36.20	0.50
	159	5795	36.00	36.40	36.40	0.50
802.11ac VHT80	155	5775	73.28	74.56	74.88	0.50

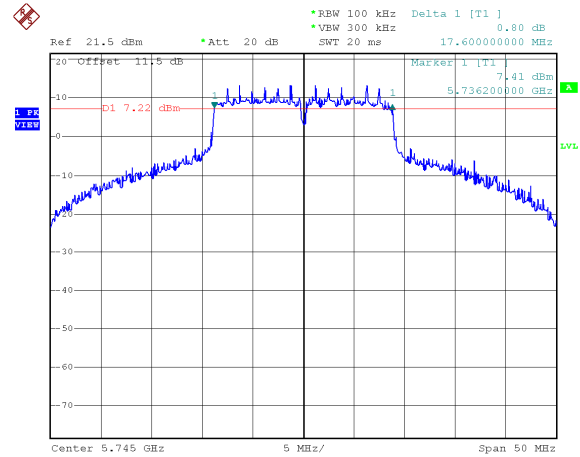


Antenna 1

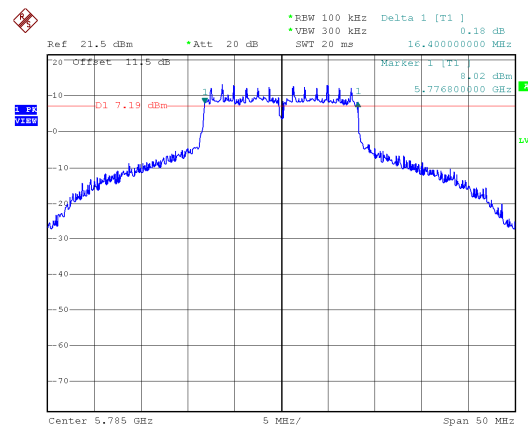
Modulation Standard: 802.11a (6Mbps)
CH149



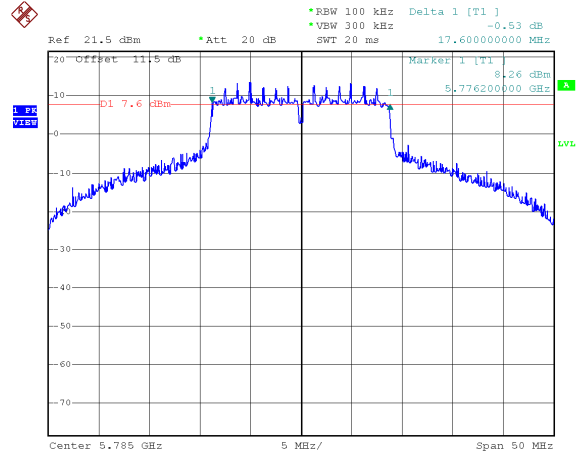
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149



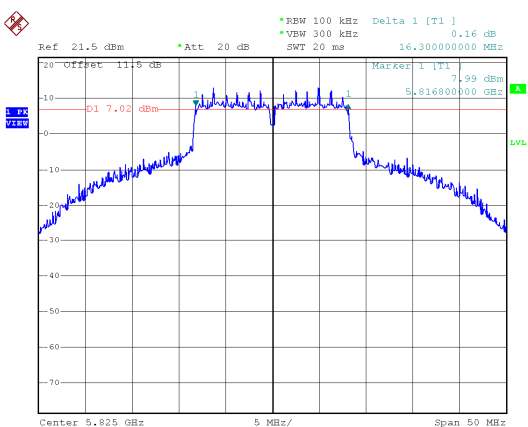
CH157



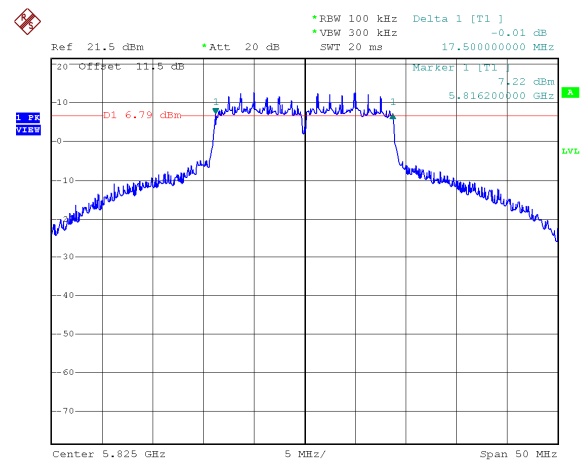
CH157



CH165

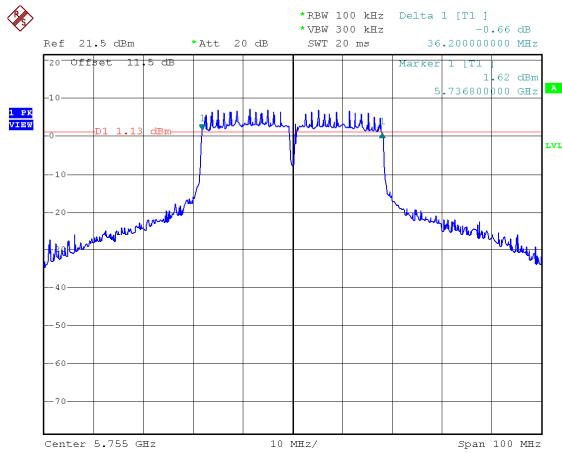
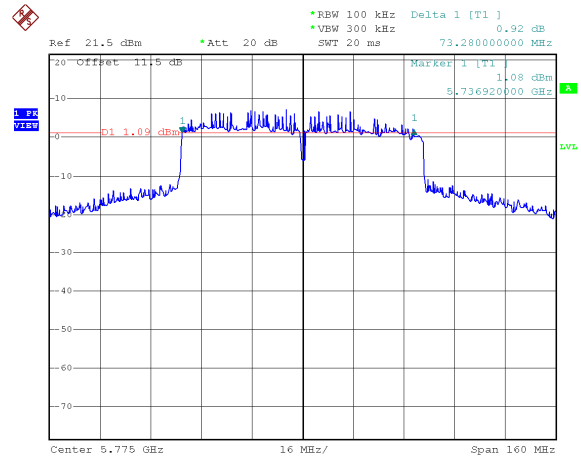


CH165

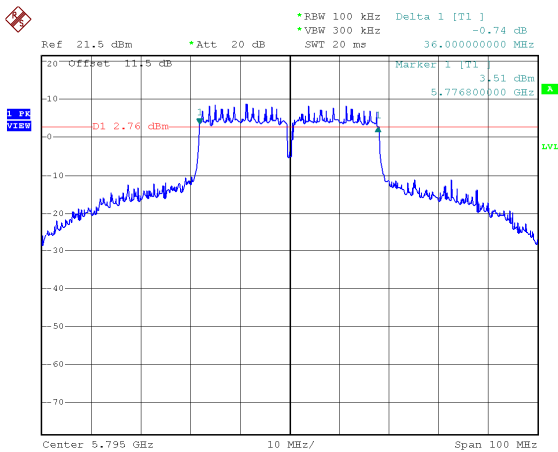




Antenna 1

Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH155

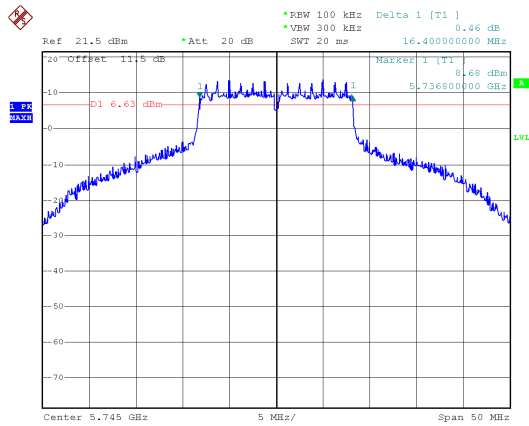
CH159



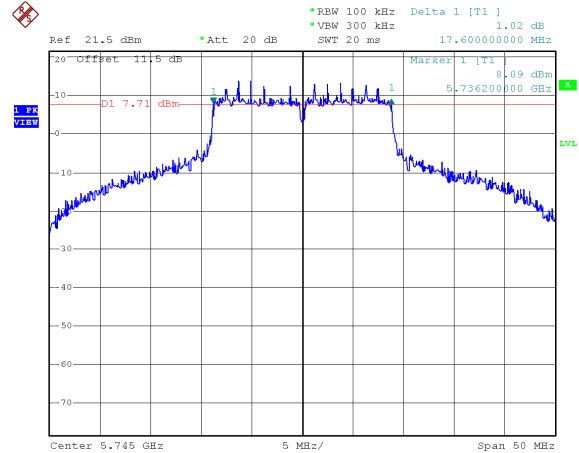


Antenna 2

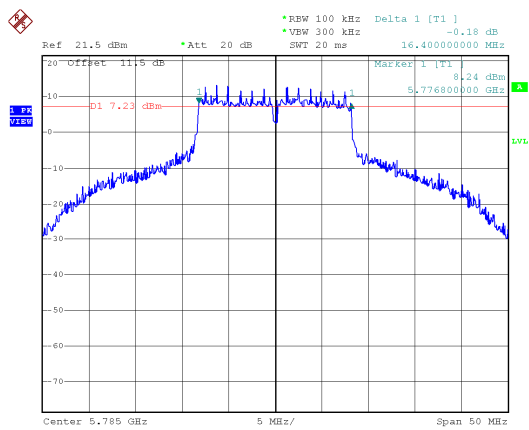
Modulation Standard: 802.11a (6Mbps)
CH149



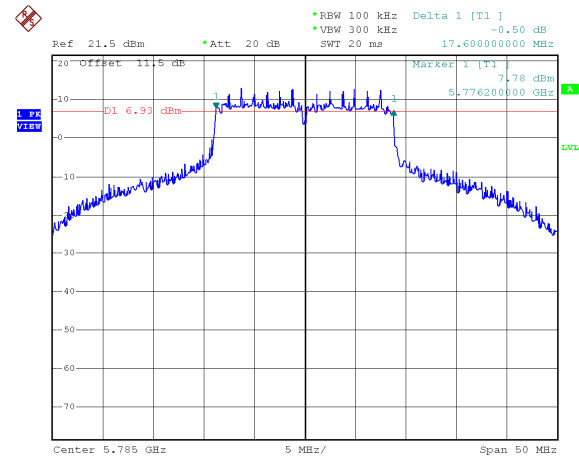
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149



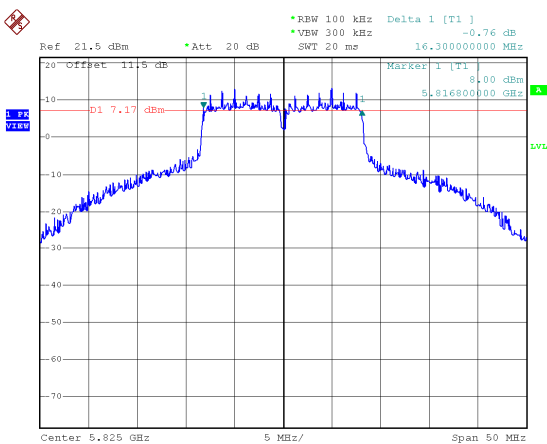
CH157



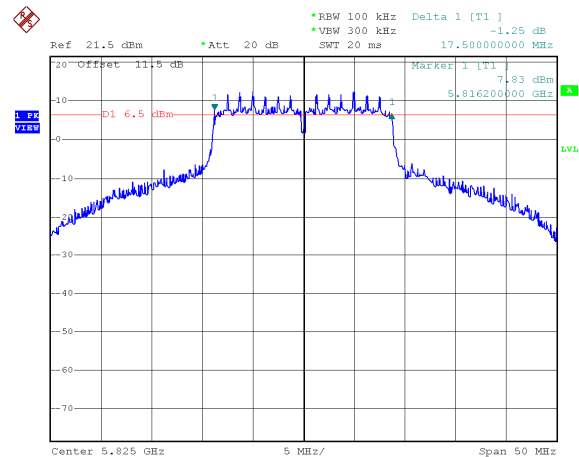
CH157



CH165

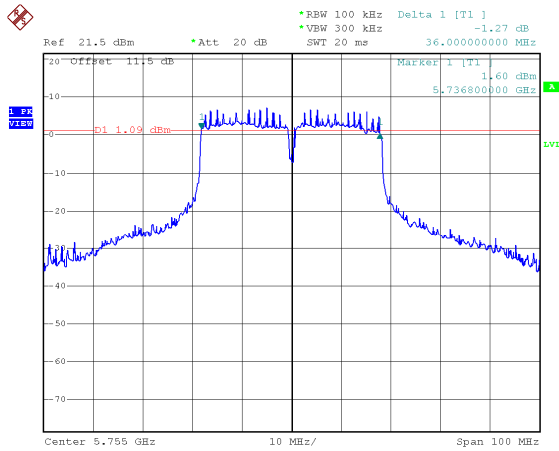
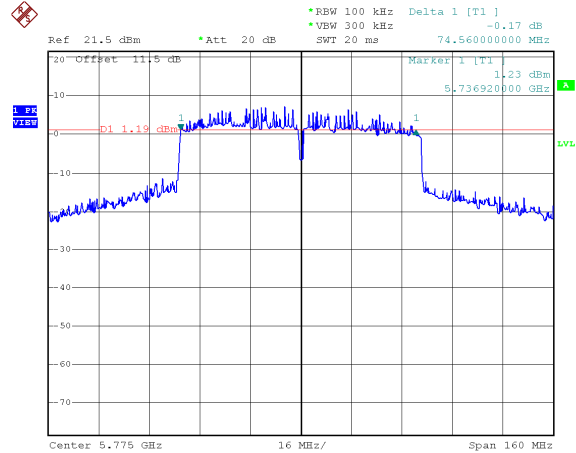


CH165

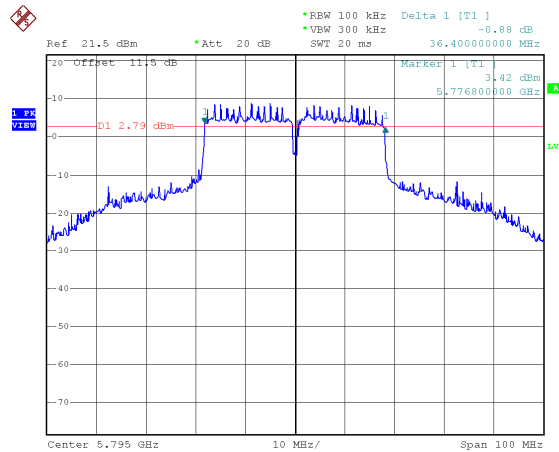




Antenna 2

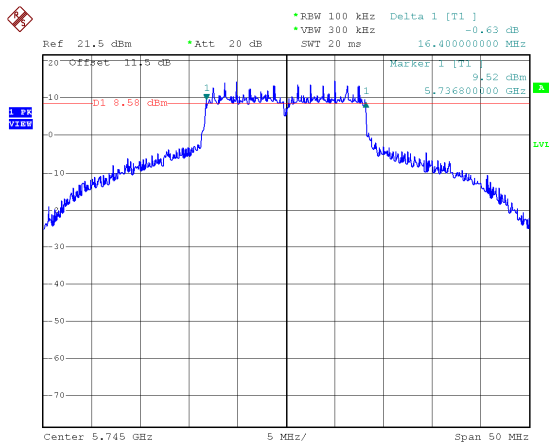
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH155

CH159

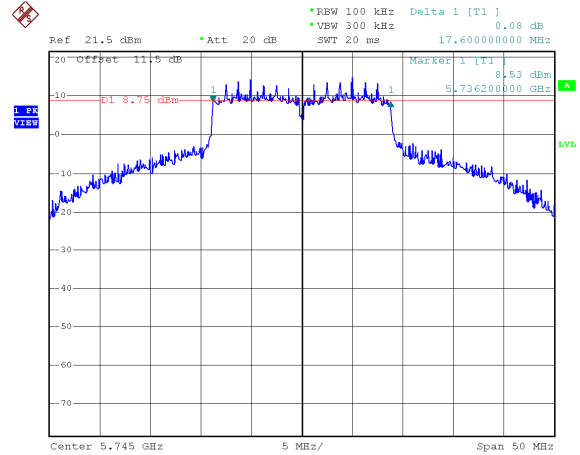




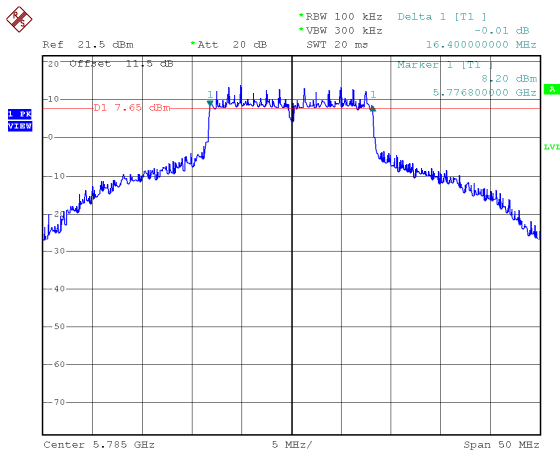
Antenna 3
Modulation Standard: 802.11a (6Mbps)
CH149



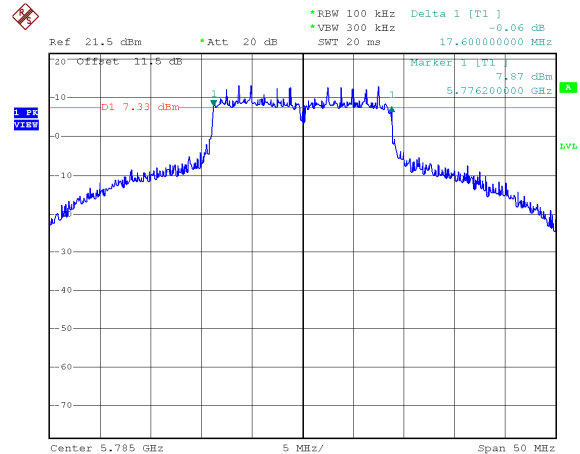
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149



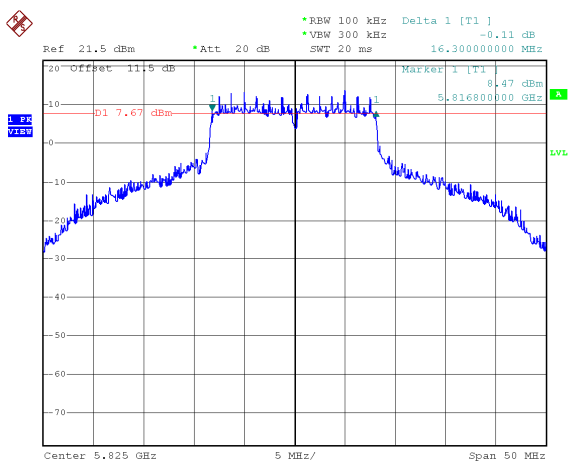
CH157



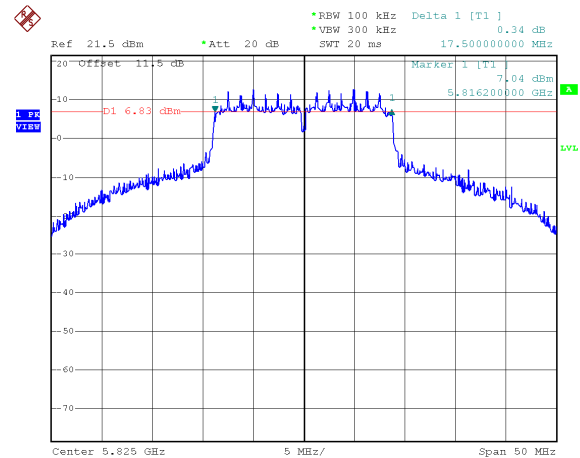
CH157



CH165

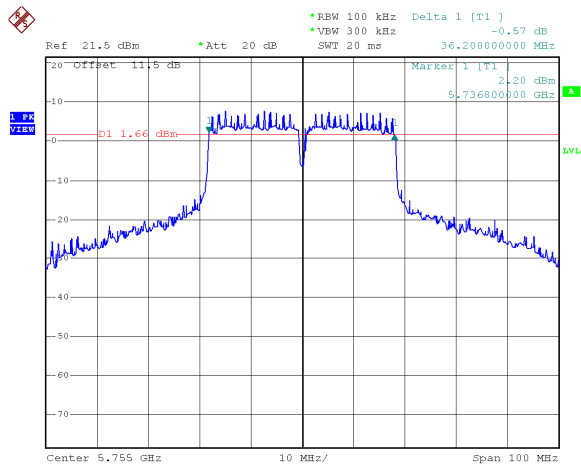
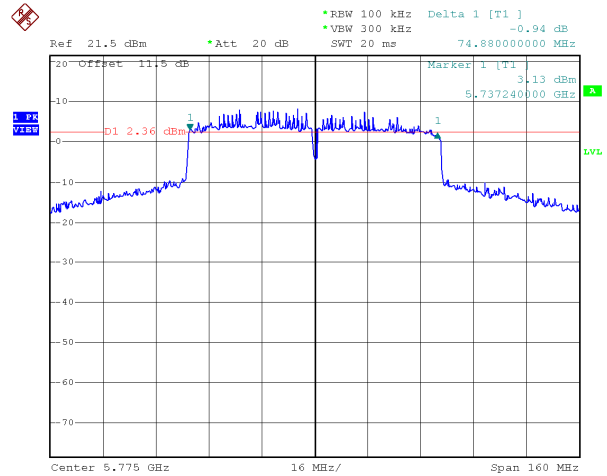


CH165

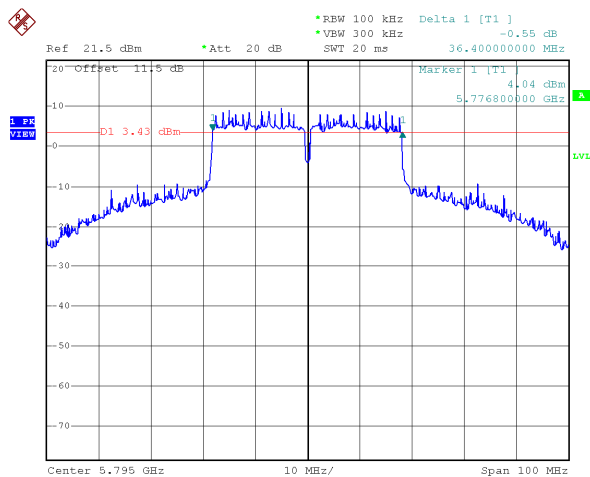




Antenna 3

Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH155

CH159





9. 26dB Bandwidth

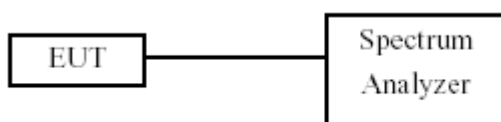
9.1. Test Limit

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 $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout



9.4. Test Result and Data

Temperature: 24°C

Humidity: 65%

Test Date: Nov. 30, 2016

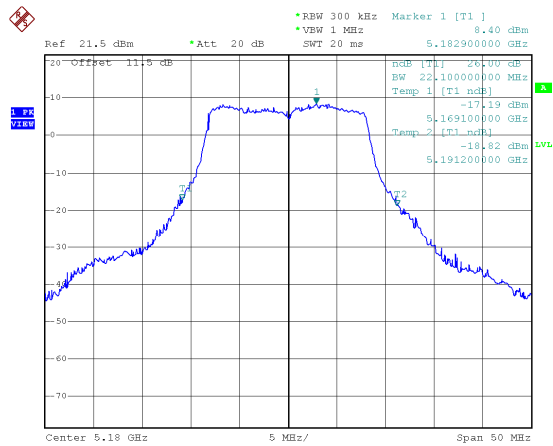
In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
			ANT 1	ANT 2	ANT 3
802.11a	36	5180	22.10	21.70	21.90
	44	5220	23.30	23.00	23.30
	48	5240	23.60	22.70	22.50
802.11ac VHT20	36	5180	23.20	23.10	23.60
	44	5220	24.20	26.00	25.80
	48	5240	25.00	25.80	23.70
802.11ac VHT40	38	5190	45.60	45.00	44.60
	46	5230	45.30	45.60	45.00
802.11ac VHT80	42	5210	84.96	86.24	85.92

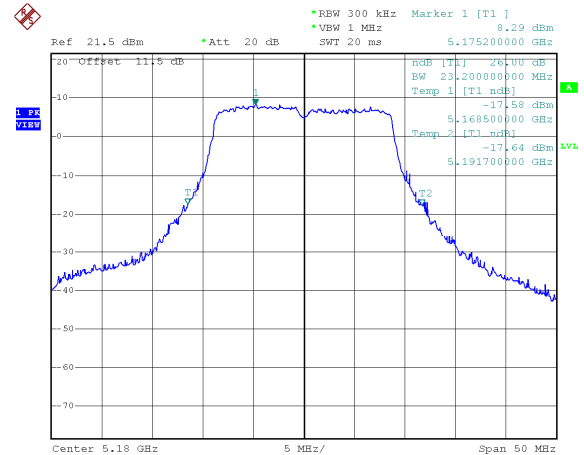


Antenna 1

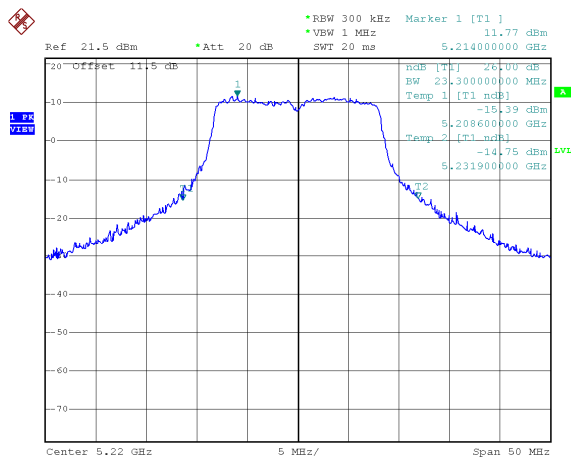
Modulation Standard: 802.11a (6Mbps)
CH36



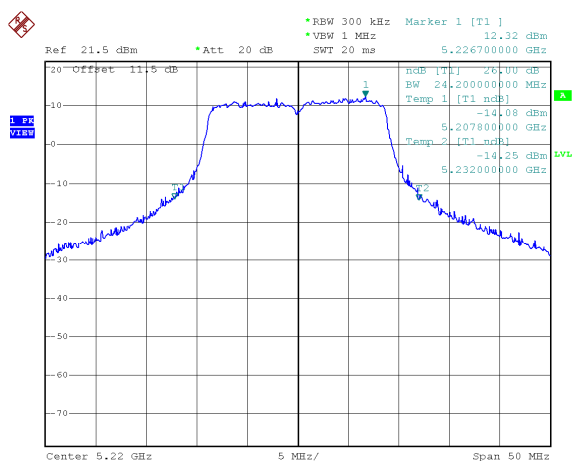
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH36



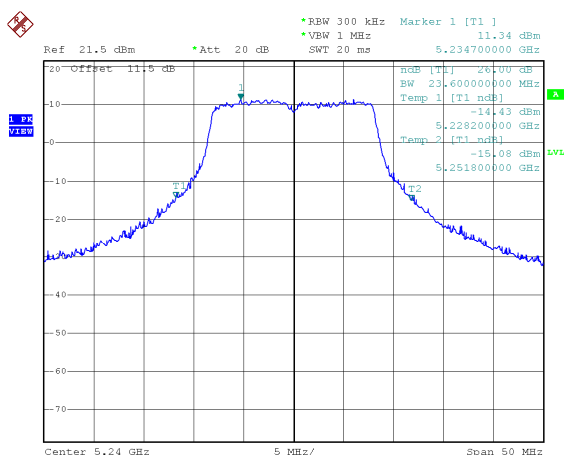
CH44



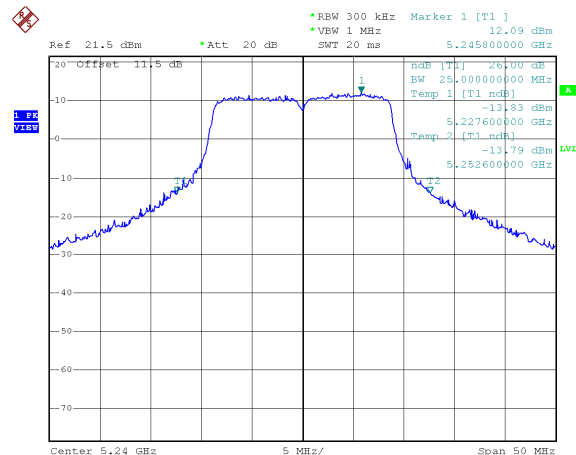
CH44



CH48

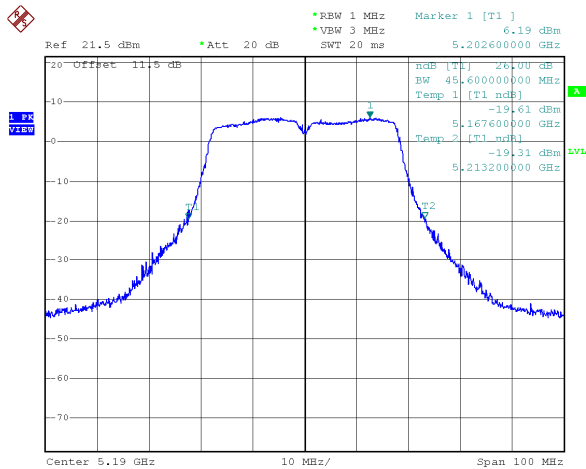
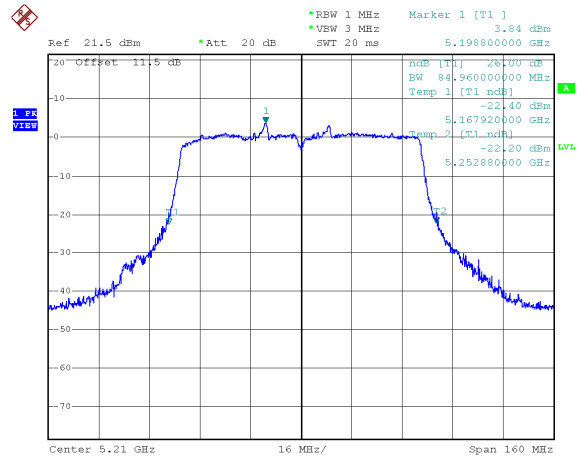


CH48

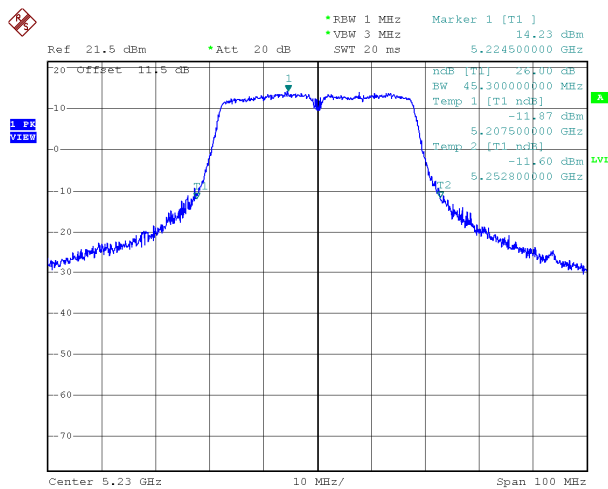




Antenna 1

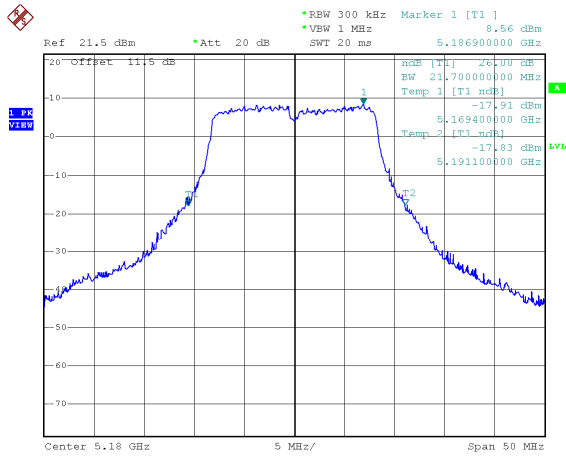
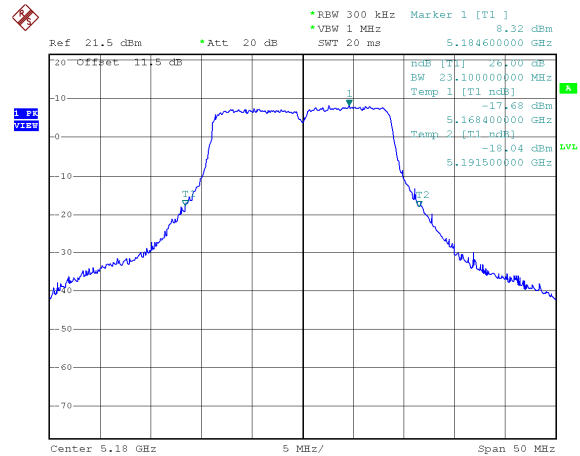
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH38Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH42

CH46

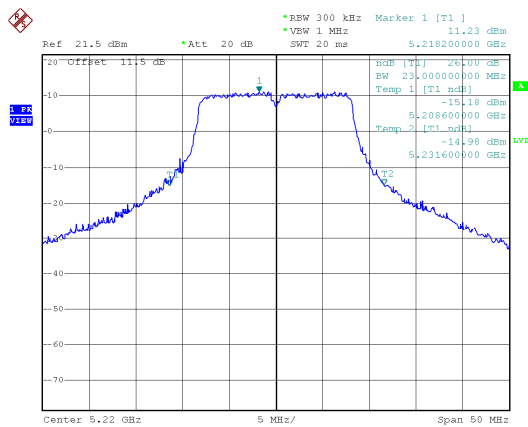




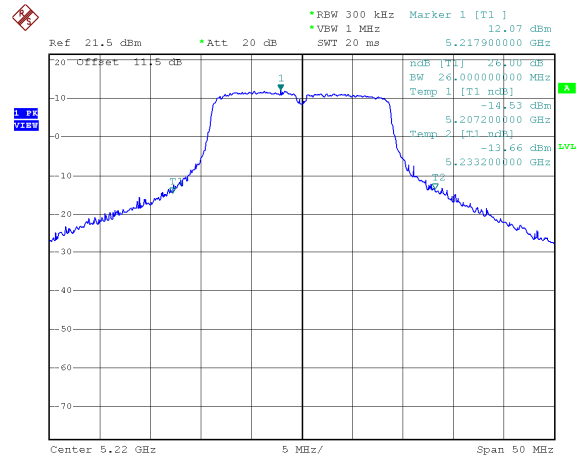
Antenna 2

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH36

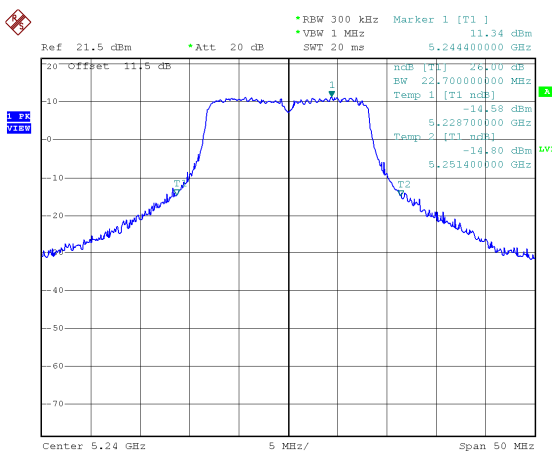
CH44



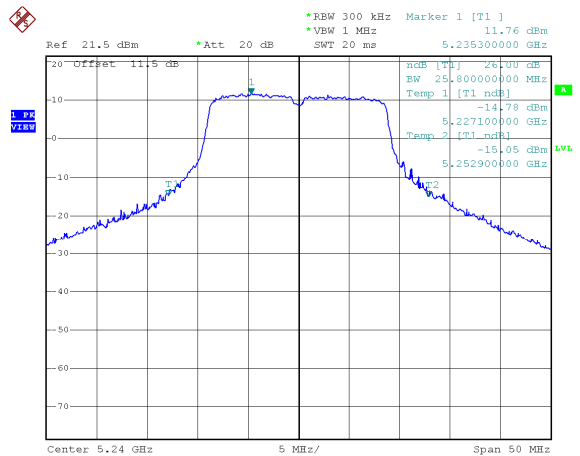
CH44



CH48

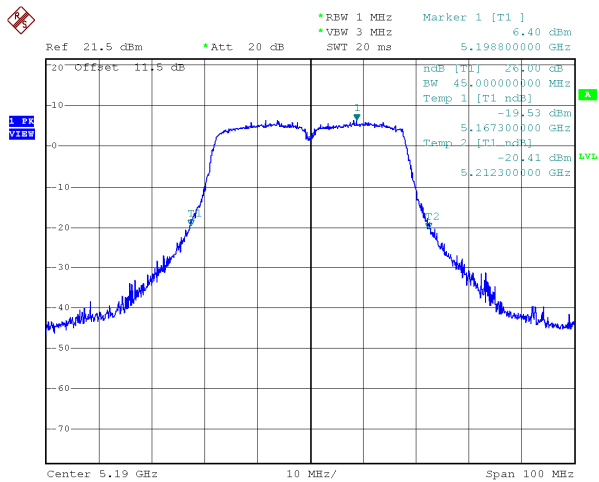
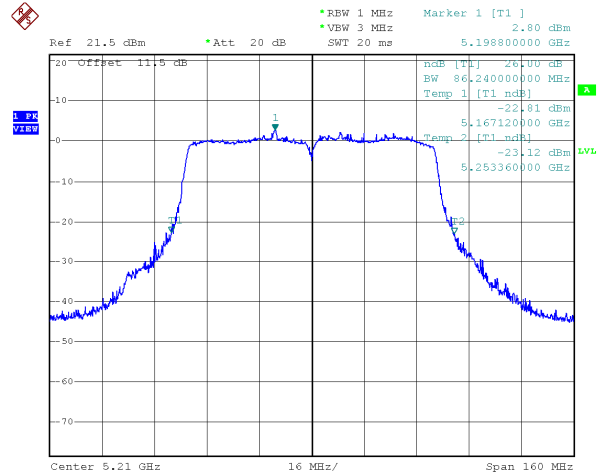


CH48

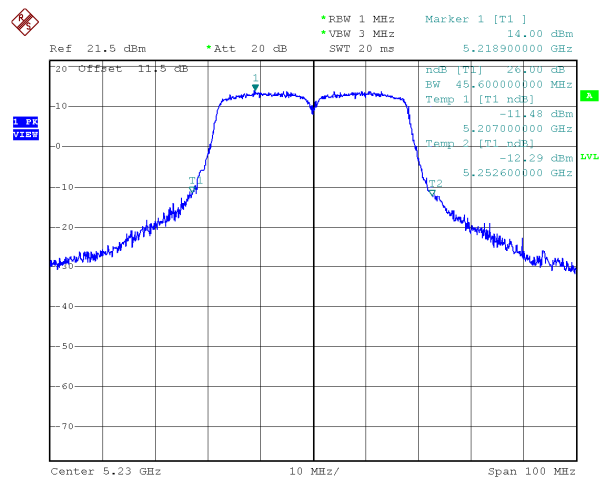




Antenna 2

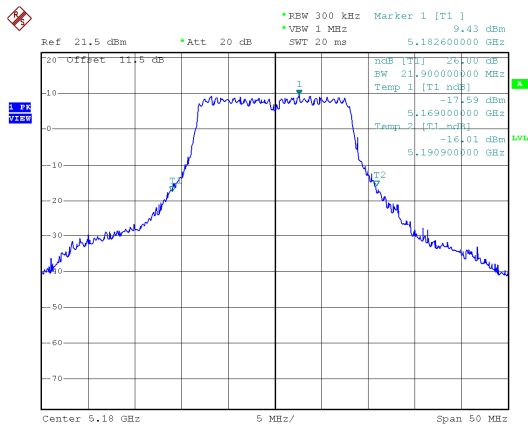
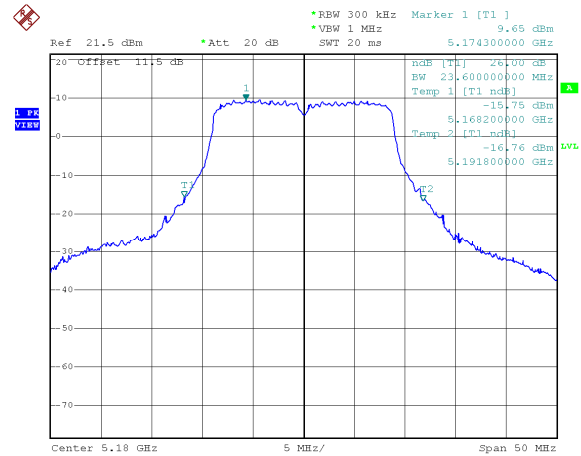
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH38Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH42

CH46

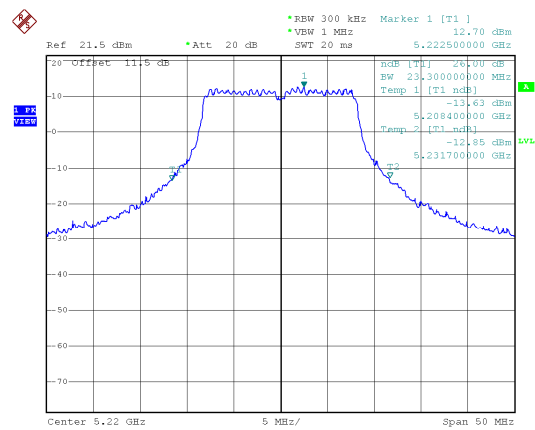




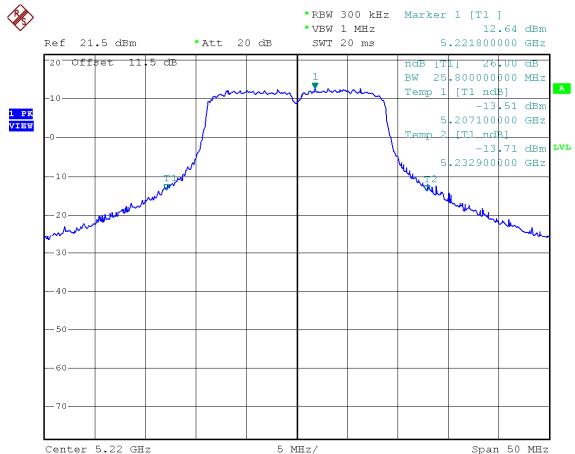
Antenna 3

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH36

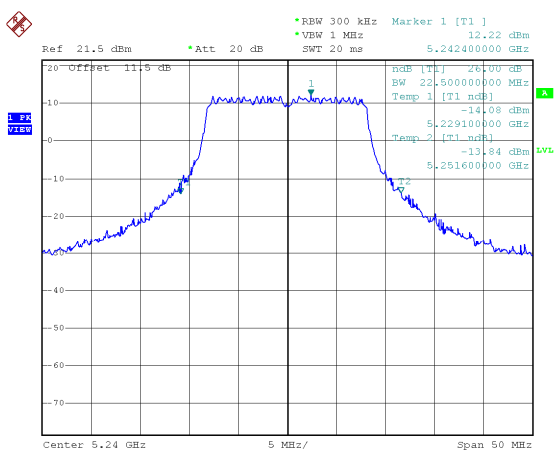
CH44



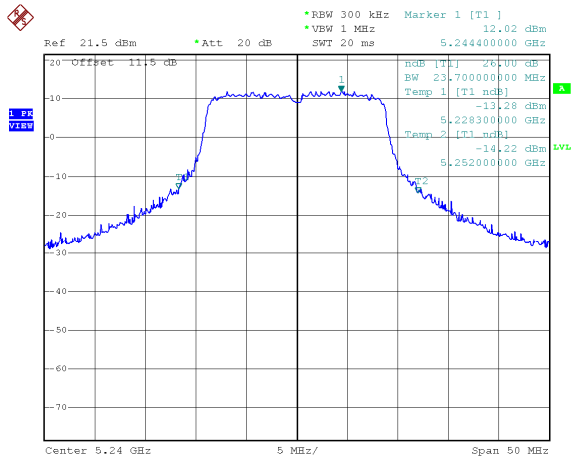
CH44



CH48

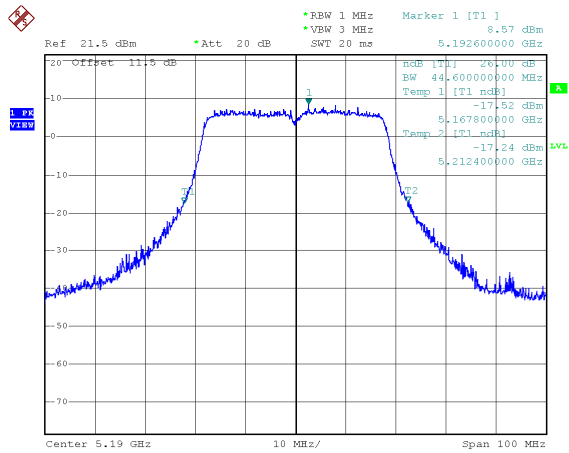
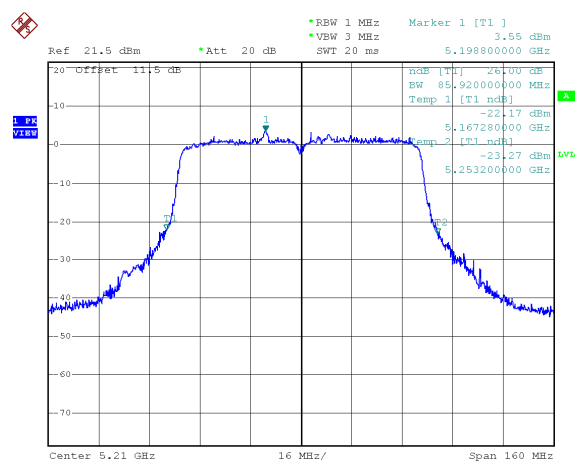


CH48

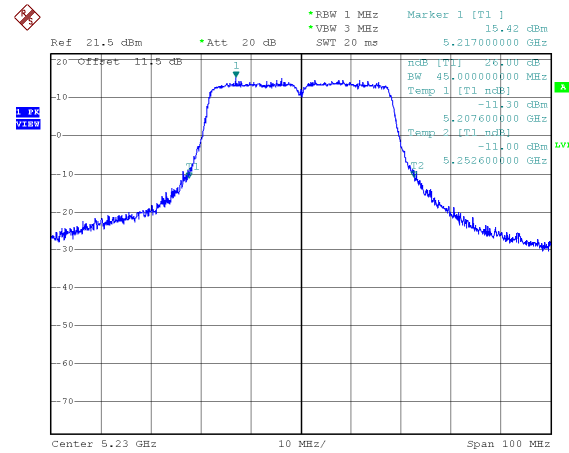




Antenna 3

Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH38Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH42

CH46





10. Average Power

10.1. Test Limit

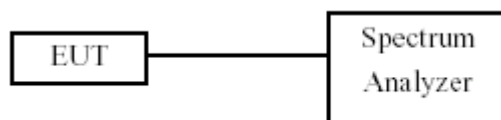
None; for reporting purposes only.

10.2. Test Procedure

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 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

Temperature: 24°C

Humidity: 65%

Test Date: Nov. 30, 2016

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	Avg Power Output (dBm)			Total Power (dBm)	Power Limit (dBm)
			ANT 1	ANT 2	ANT 3	1+2+3	
802.11a	36	5180	16.91	16.72	17.88	21.97	30.00
	44	5220	20.31	20.09	20.91	25.22	30.00
	48	5240	20.12	20.05	20.43	24.97	30.00
802.11an HT20	36	5180	17.02	17.01	17.85	22.08	30.00
	44	5220	20.52	20.41	21.12	25.47	30.00
	48	5240	20.51	20.48	20.88	25.40	30.00
802.11an HT40	38	5190	11.34	10.88	11.87	16.15	30.00
	46	5230	19.47	19.25	19.88	24.31	30.00
802.11ac VHT20	36	5180	17.09	17.07	17.96	22.16	30.00
	44	5220	20.60	20.46	21.18	25.53	30.00
	48	5240	20.56	20.43	20.93	25.42	30.00
802.11ac VHT40	38	5190	11.38	10.95	11.92	16.21	30.00
	46	5230	19.53	19.33	19.91	24.37	30.00
802.11ac VHT80	42	5210	10.06	9.69	10.02	14.70	30.00



Temperature: 24°C

Humidity: 65%

Test Date: Nov. 30, 2016

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	Avg Power Output (dBm)			Total Power (dBm)	Power Limit (dBm)
			ANT 1	ANT 2	ANT 3	1+2+3	
802.11a	149	5745	23.79	23.36	23.95	28.48	30.00
	157	5785	23.42	22.93	23.35	28.01	30.00
	165	5825	23.26	22.92	23.29	27.93	30.00
802.11an HT20	149	5745	23.86	23.44	23.70	28.44	30.00
	157	5785	23.39	23.01	23.32	28.01	30.00
	165	5825	23.33	22.89	23.21	27.92	30.00
802.11an HT40	151	5755	21.05	20.42	21.48	25.78	30.00
	159	5795	23.01	22.77	23.24	27.78	30.00
802.11ac VHT20	149	5745	23.91	23.51	23.77	28.50	30.00
	157	5785	23.44	23.04	23.35	28.05	30.00
	165	5825	23.36	22.93	23.23	27.95	30.00
802.11ac VHT40	151	5755	21.09	20.46	21.52	25.82	30.00
	159	5795	23.05	22.83	23.29	27.83	30.00
802.11ac VHT80	155	5775	16.22	15.86	16.75	21.06	30.00



11. Output Power and PPSD

11.1. Test Limit

Output Power:

Frequency Band		Limit
☒	5.15~5.25GHz	
	Operating Mode	
☐	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).
☒	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.
☐	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.
☐	Mobile and portable 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
☐	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.
☐	5.470-5.725 GHz	
☒	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

PSD:

Frequency Band		Limit
☒	5.15~5.25GHz	
	Operating Mode	
☐	Outdoor access point	17 dBm/MHz
☒	Indoor access point	17 dBm/MHz
☐	Fixed point-to-point access points	17 dBm/MHz
☐	Mobile and portable client devices	11 dBm/MHz
☐	5.725~5.85 GHz	11 dBm/MHz
☐	5.470-5.725 GHz	11 dBm/MHz
☒	5.725~5.85 GHz	30 dBm/500kHz



11.2. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was Measured with an average power meter employing a video bandwidth greater than 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

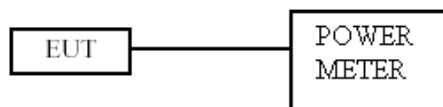
802.11an ($BW \leq 40\text{MHz}$) Maximum conducted output power using KDB 789033 section E)3)b) Method PM-G (Measurement using a gated RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac ($BW=80\text{MHz}$) Maximum conducted output power using KDB 789033 section E)2)b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D01 section F) procedure is used for measurements.

11.3. Test Setup Layout





11.4. Test Result and Data

Temperature: 24°C

Humidity: 65%

Test Date: Nov. 30, 2016

In the 5.2G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)			Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
			ANT 1	ANT 2	ANT 3				
802.11a	36	5180	5.31	5.36	5.99	10.34	0.10	10.44	13.36
	44	5220	8.35	8.09	8.66	13.14	0.10	13.25	13.36
	48	5240	8.19	8.14	8.06	12.90	0.10	13.01	13.36
802.11ac VHT20	36	5180	5.11	5.01	5.77	10.08	0.11	10.19	13.36
	44	5220	8.53	7.59	8.66	13.06	0.11	13.17	13.36
	48	5240	5.80	5.55	8.55	11.63	0.11	11.74	13.36
802.11ac VHT40	38	5190	-3.75	-5.11	-3.57	0.68	0.71	1.39	13.36
	46	5230	4.08	3.86	4.62	8.97	0.71	9.68	13.36
802.11ac VHT80	42	5210	-8.27	-8.56	-8.52	-3.68	0.46	-3.22	13.36

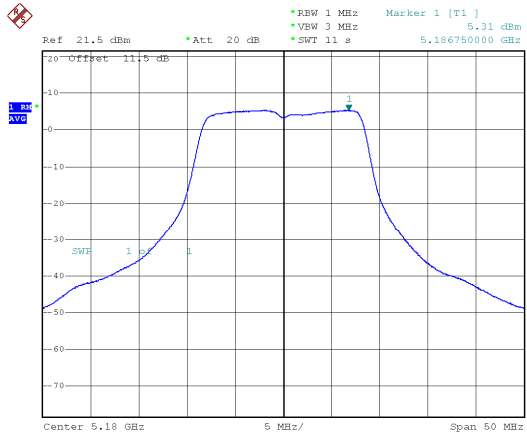
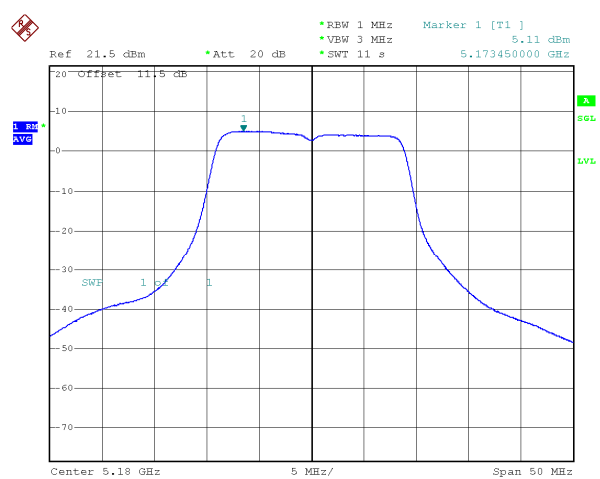
In the 5.8G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)			Sum chain (dBm)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSD (dBm/500KHz)	PPSD Limit (dBm/500KHz)
			ANT 1	ANT 2	ANT 3					
802.11a	149	5745	12.26	12.06	12.54	17.06	0.10	-3.01	14.15	26.36
	157	5785	11.71	11.68	12.17	16.63	0.10	-3.01	13.72	26.36
	165	5825	11.31	11.36	11.76	16.25	0.10	-3.01	13.34	26.36
802.11ac VHT20	149	5745	11.60	11.73	12.27	16.65	0.11	-3.01	13.75	26.36
	157	5785	11.31	11.38	11.79	16.27	0.11	-3.01	13.37	26.36
	165	5825	10.99	10.88	11.33	15.84	0.11	-3.01	12.94	26.36
802.11ac VHT40	151	5755	6.39	6.62	7.03	11.46	0.71	-3.01	9.16	26.36
	159	5795	7.89	8.08	8.69	13.00	0.71	-3.01	10.70	26.36
802.11ac VHT80	155	5775	4.98	5.28	5.77	10.13	0.46	-3.01	7.58	26.36

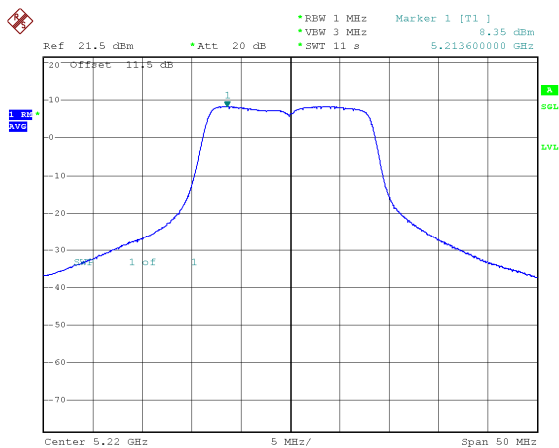


5.2G Band

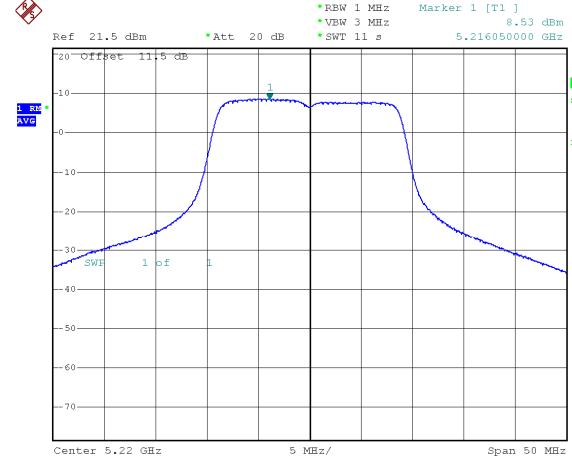
Antenna 1

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH36

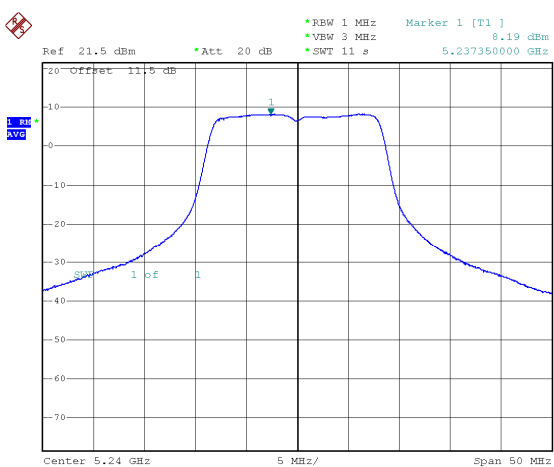
CH44



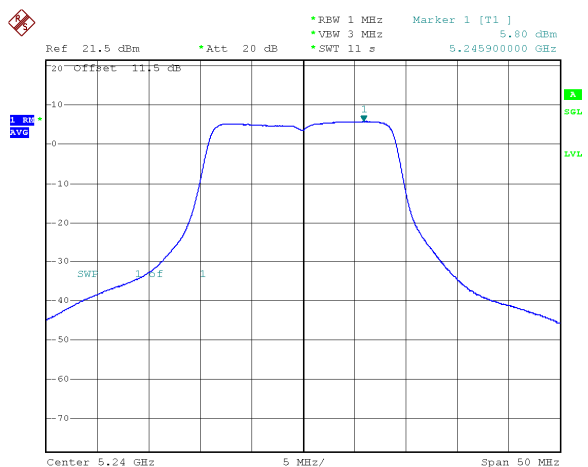
CH44



CH48

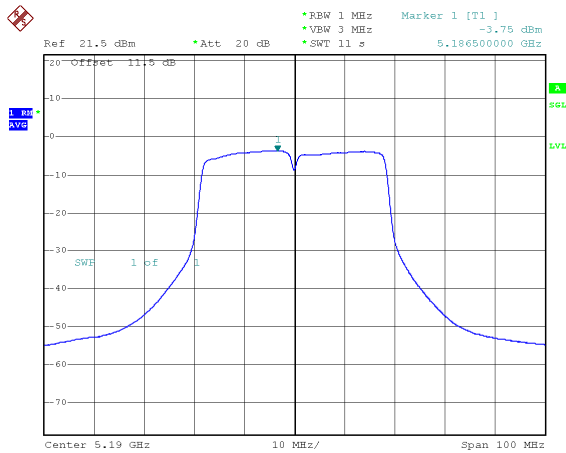
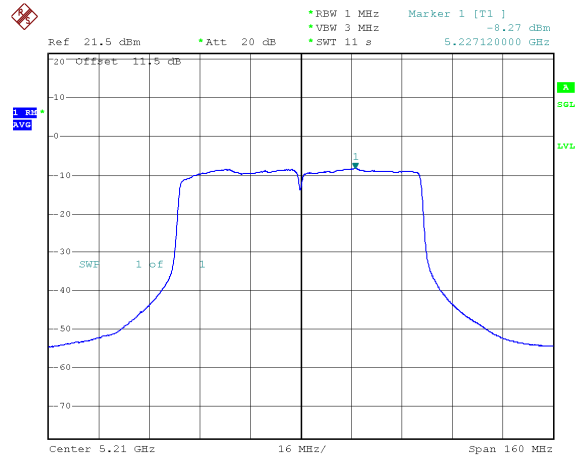


CH48

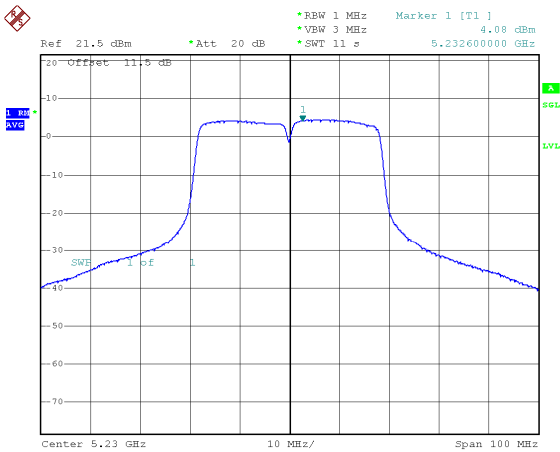




Antenna 1

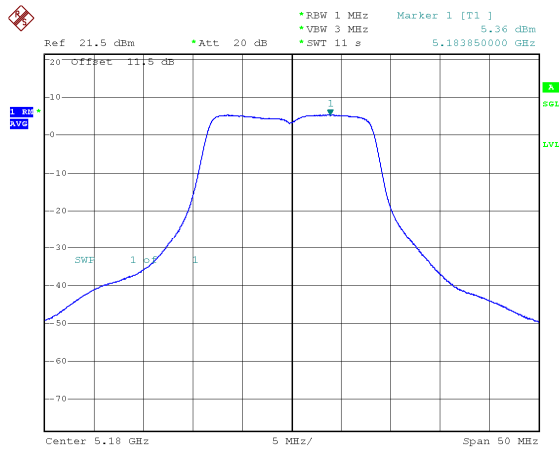
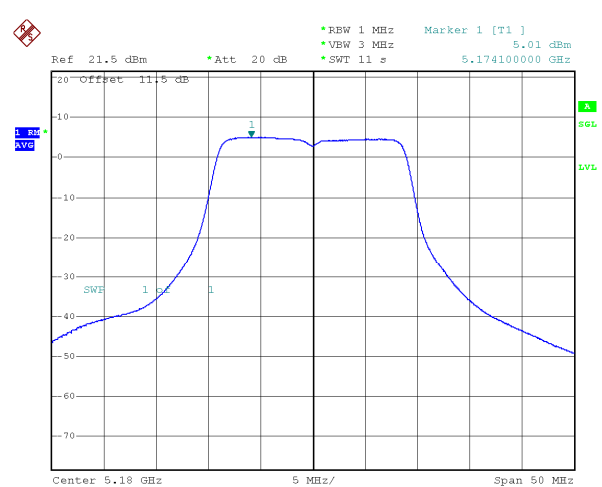
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH38Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH42

CH46

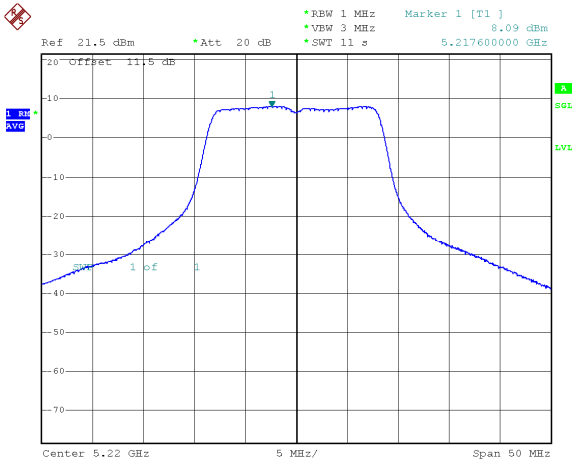




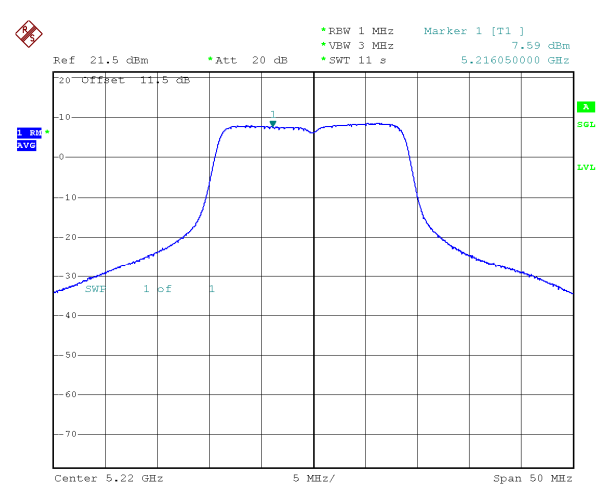
Antenna 2

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH36

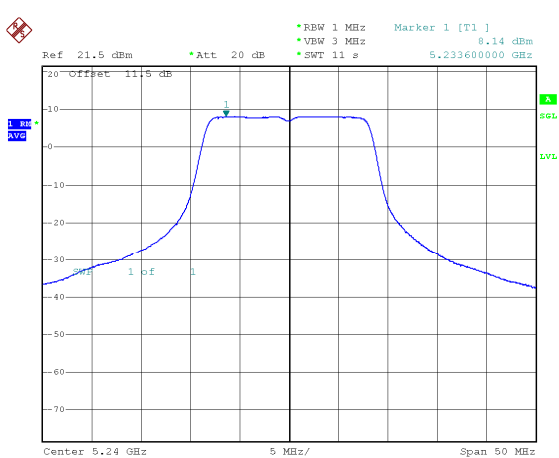
CH44



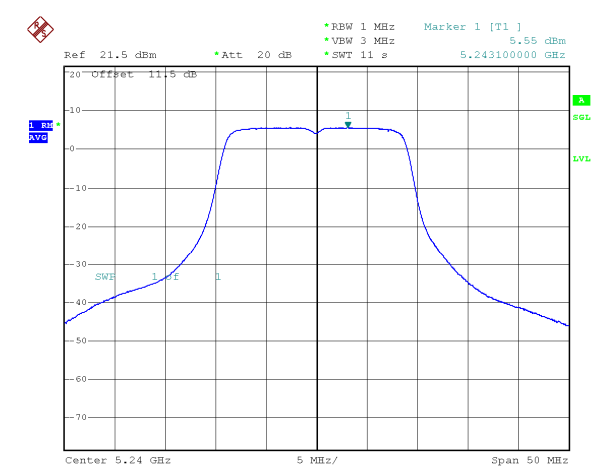
CH44



CH48



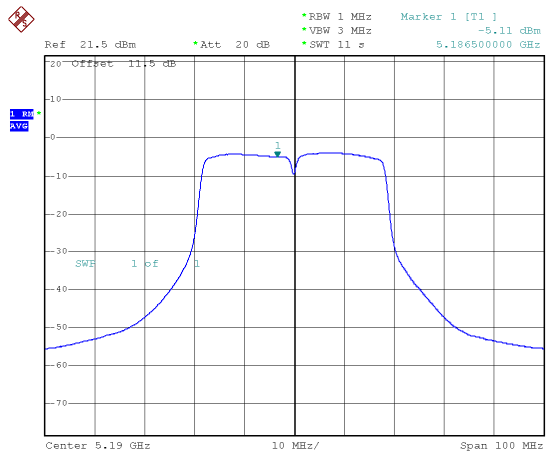
CH48



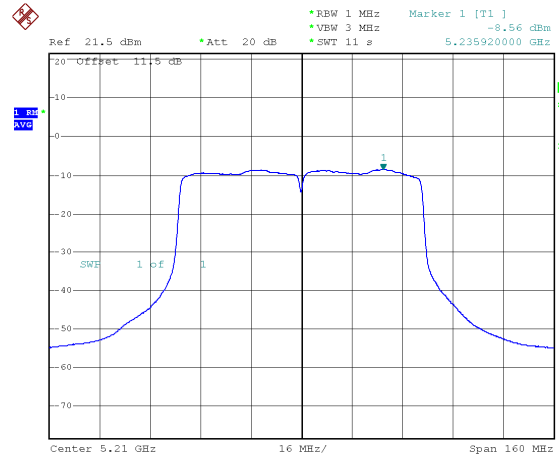


Antenna 2

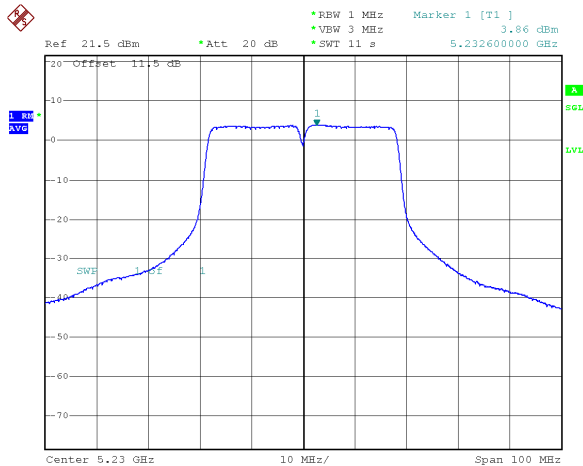
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH38



Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH42

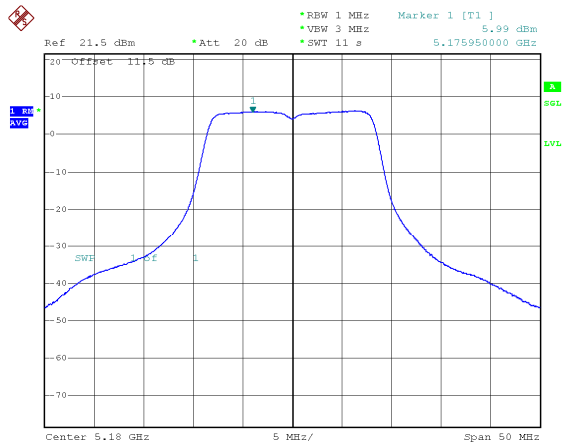
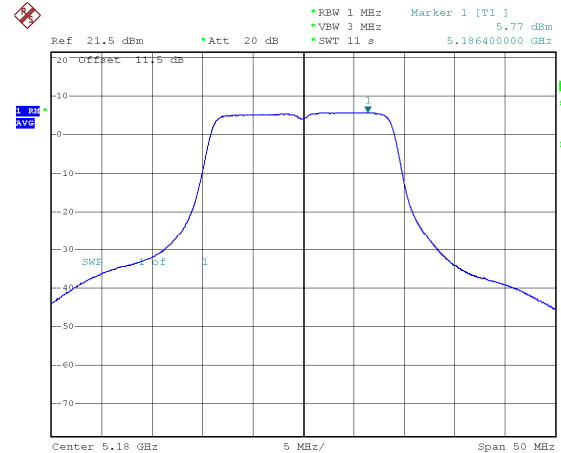


CH46

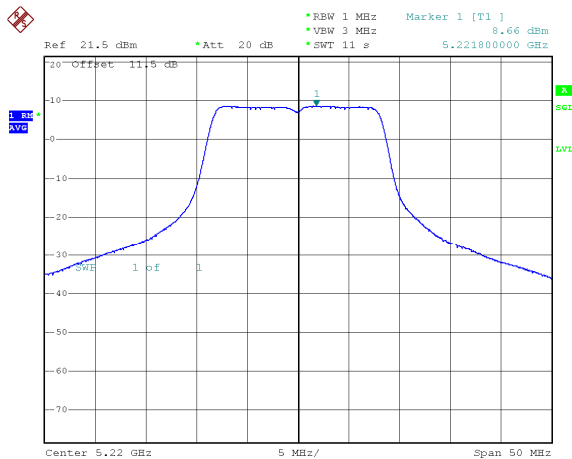




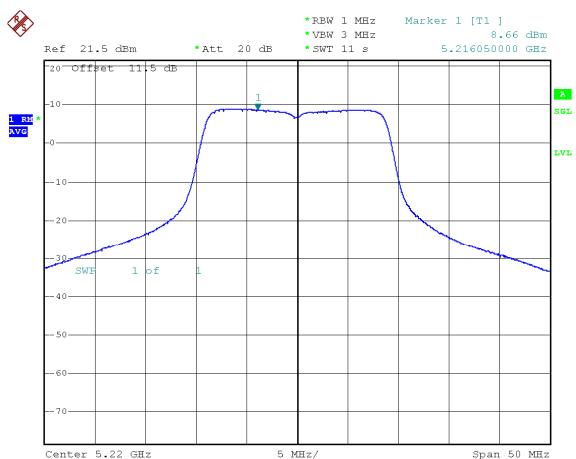
Antenna 3

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH36

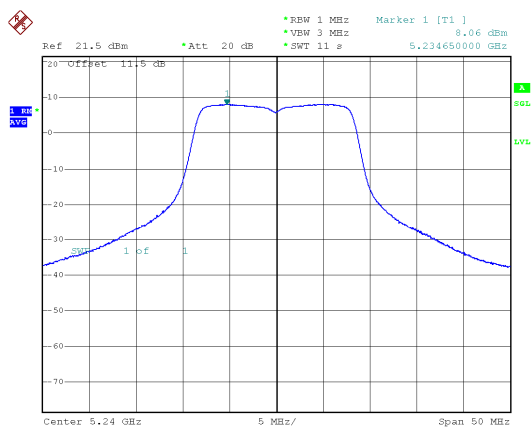
CH44



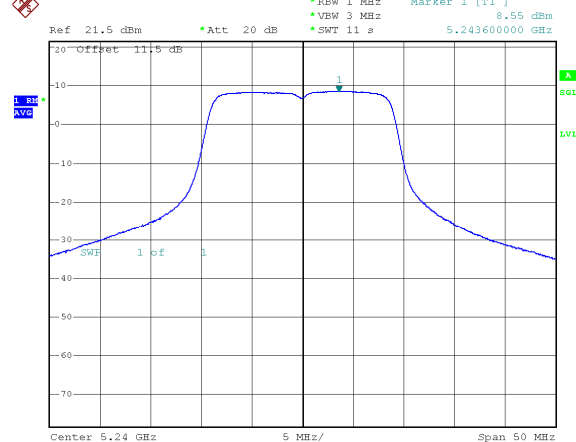
CH44



CH48



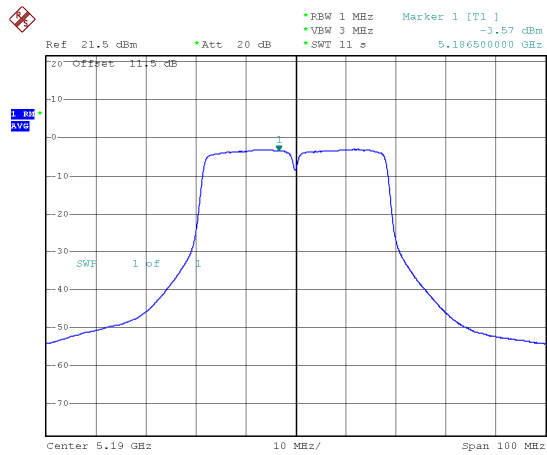
CH48



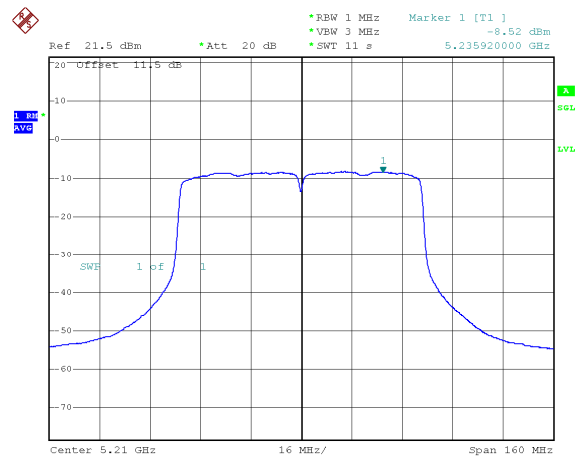


Antenna 3

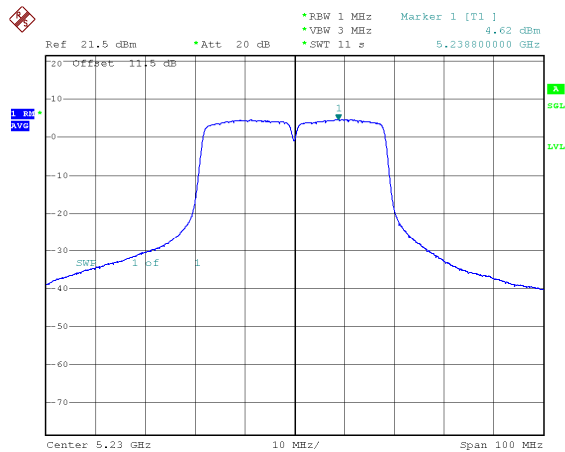
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH38



Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH42



CH46

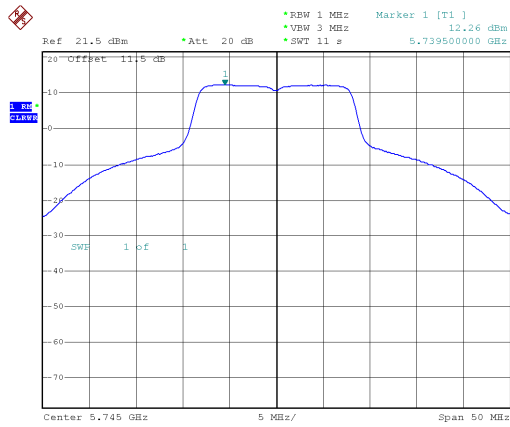




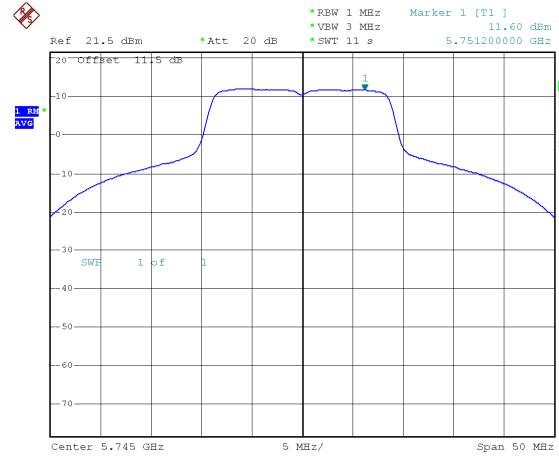
5.8G Band

Antenna 1

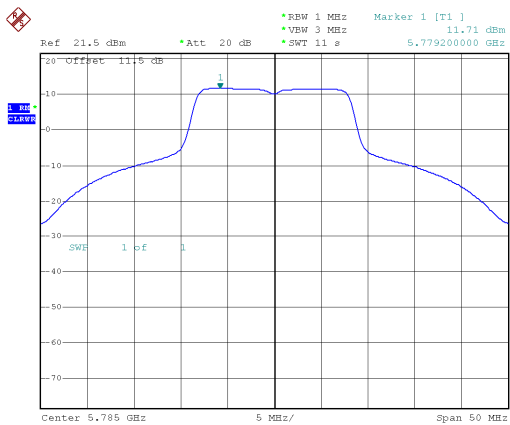
Modulation Standard: 802.11a (6Mbps)
CH149



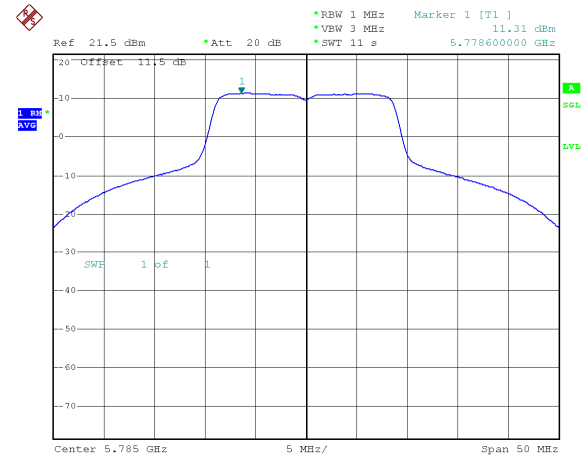
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149



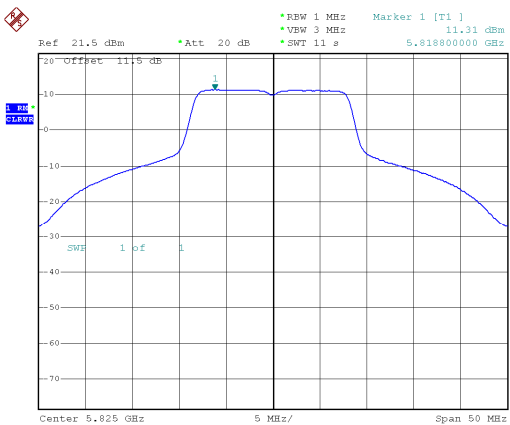
CH157



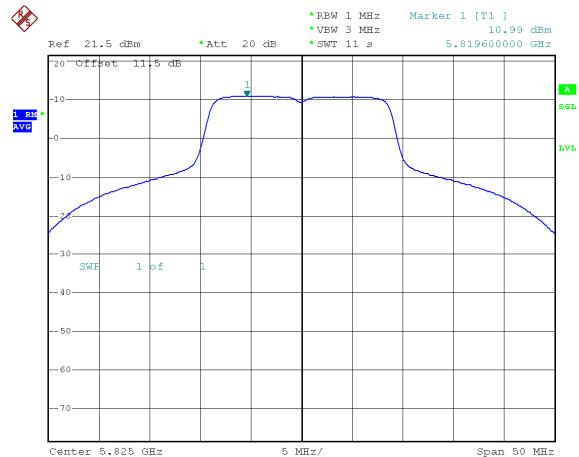
CH157



CH165



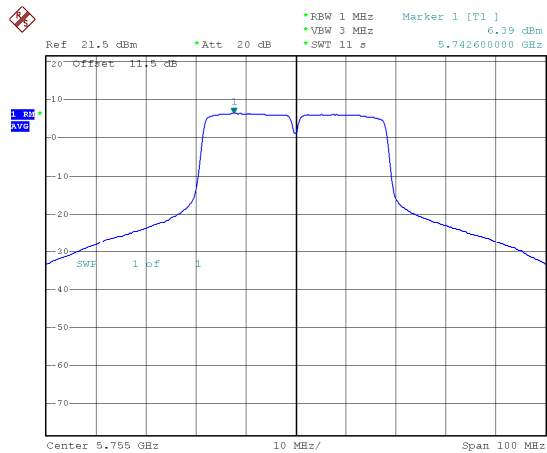
CH165



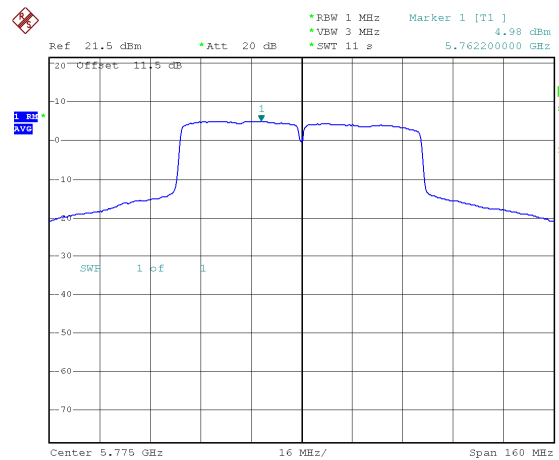


Antenna 1

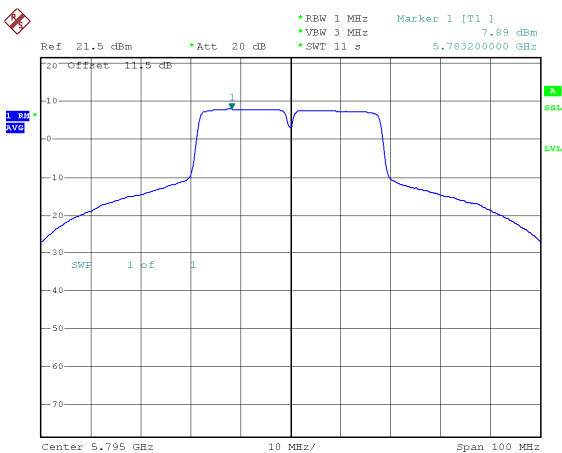
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151



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



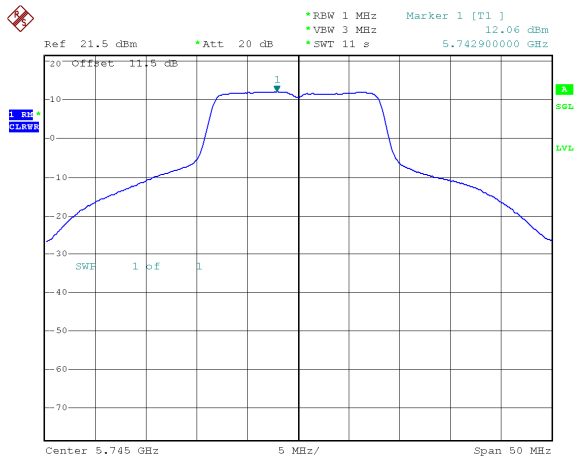
CH159



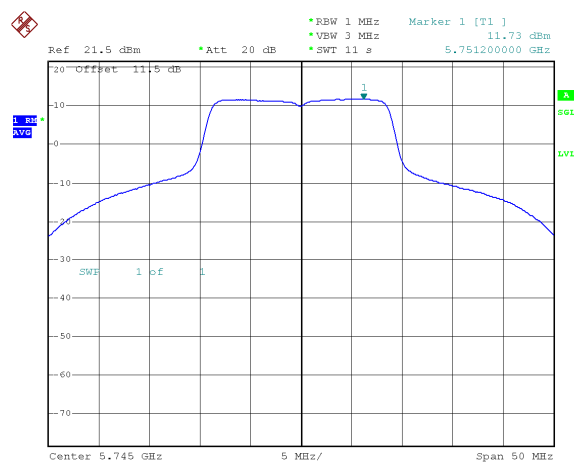


Antenna 2

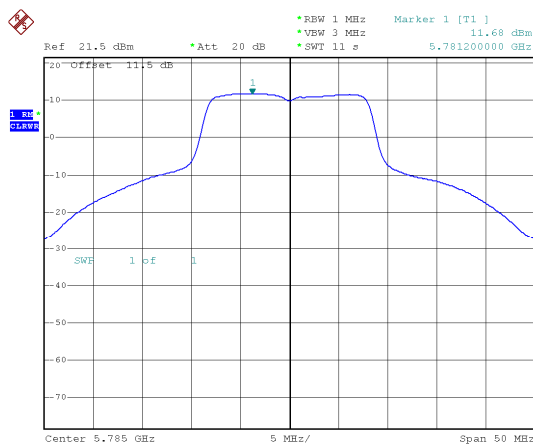
Modulation Standard: 802.11a (6Mbps)
CH149



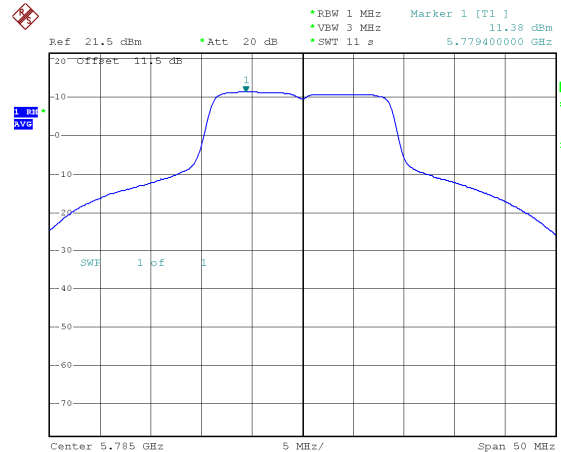
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149



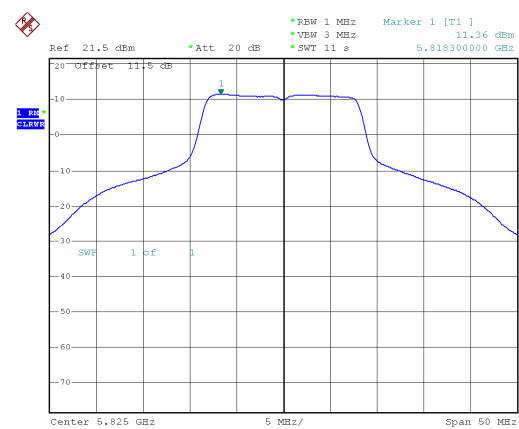
CH157



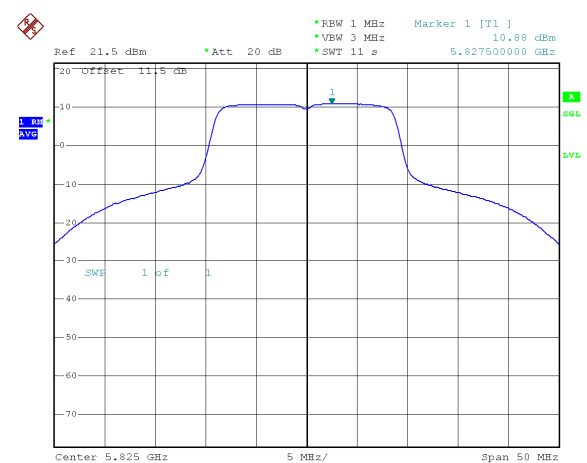
CH157



CH165

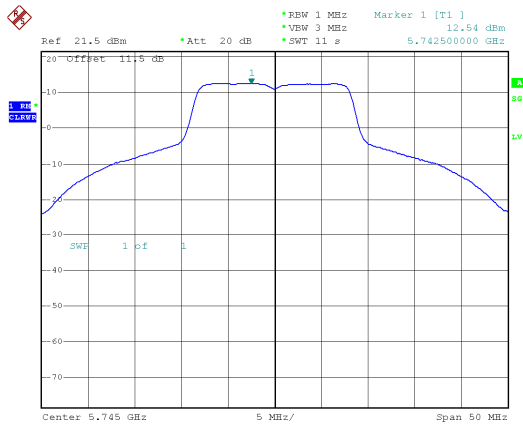


CH165

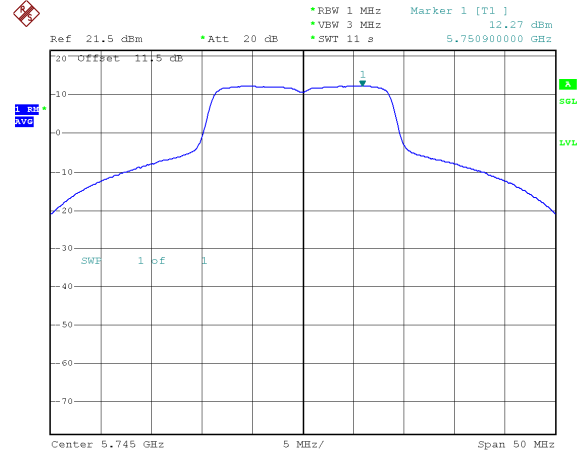




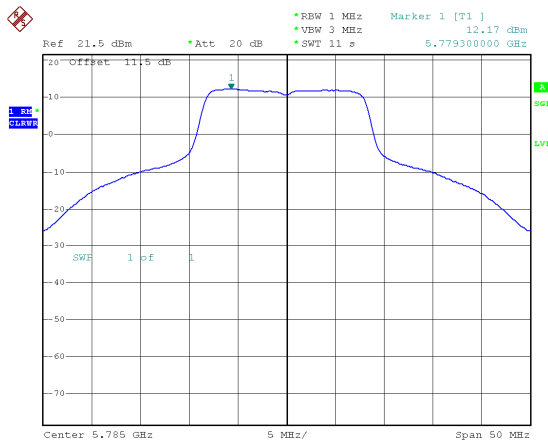
Antenna 3
Modulation Standard: 802.11a (6Mbps)
CH149



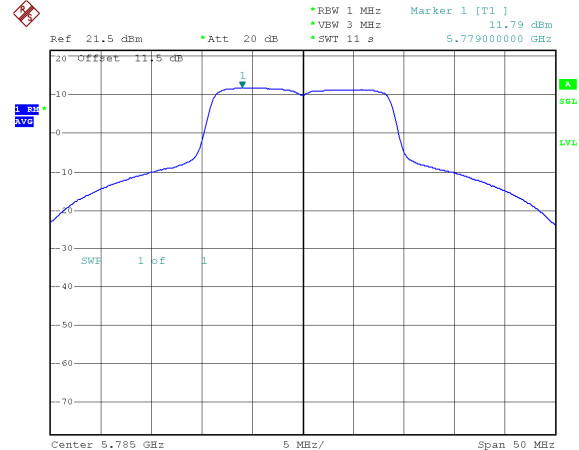
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149



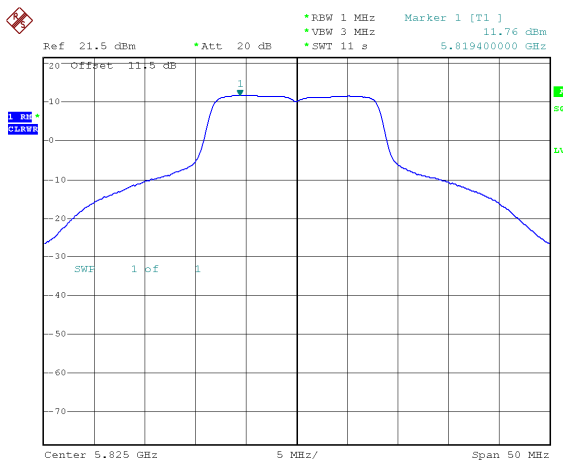
CH157



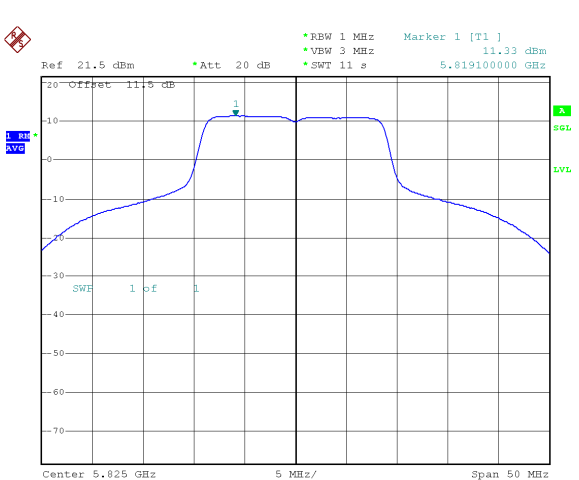
CH157



CH165



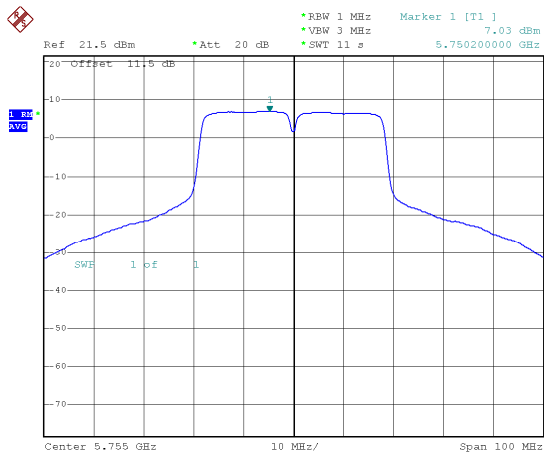
CH165



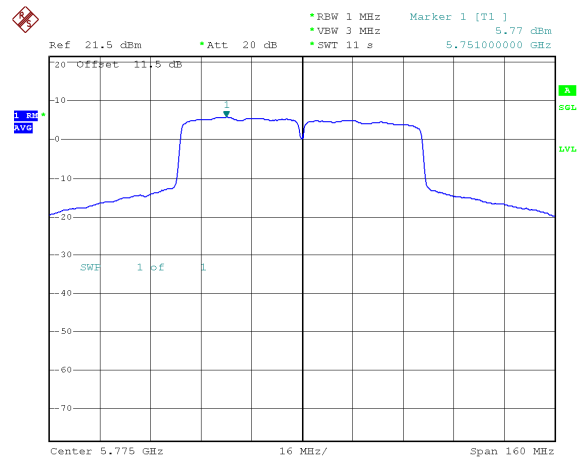


Antenna 3

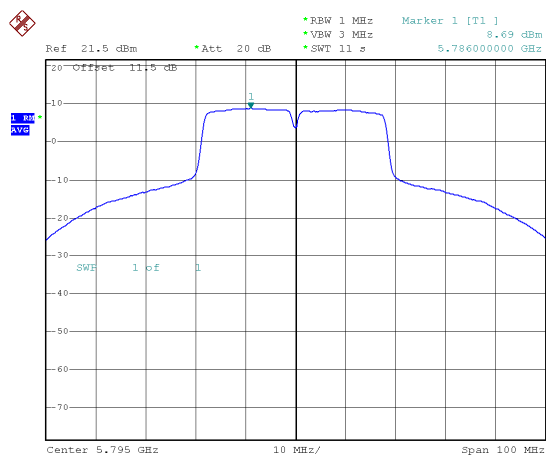
Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151



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



CH159



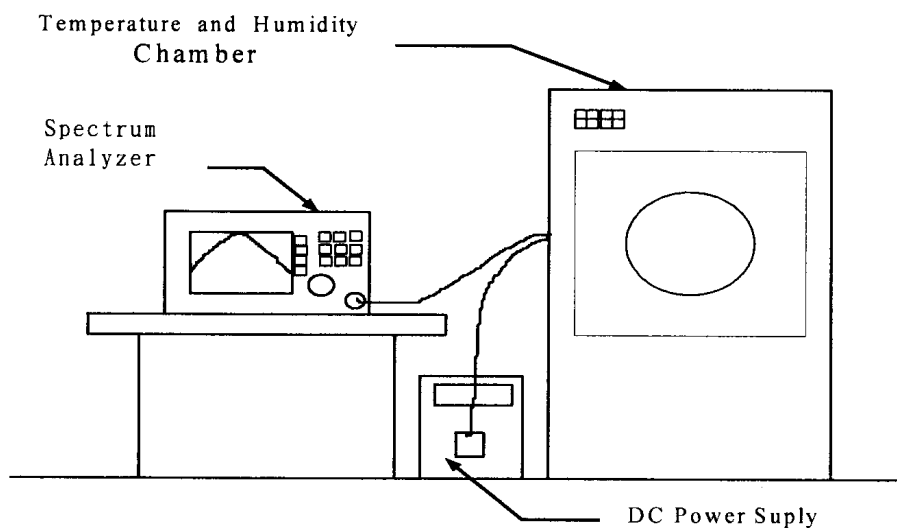


12. Frequency Stability

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**

Temperature: 24°C

Humidity: 65%

Test Date: Nov. 30, 2016

Operating frequency: 5180 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(°C)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
55	102	5179.9905	-0.000183	5179.6964	-0.005862	5179.9106	-0.017256
	120	5179.1772	-0.015884	5179.0394	-0.018545	5179.5705	-0.082924
	138	5179.5429	-0.008824	5179.6522	-0.006715	5179.2216	-0.150267
40	102	5179.5595	-0.008504	5179.8270	-0.003340	5179.4093	-0.114038
	120	5179.4599	-0.010426	5179.0546	-0.018251	5179.8926	-0.020732
	138	5179.8581	-0.002739	5179.7115	-0.005569	5179.5289	-0.090947
30	102	5179.3769	-0.012029	5179.6699	-0.006373	5179.0823	-0.177157
	120	5179.9169	-0.001604	5179.6403	-0.006944	5179.9184	-0.015751
	138	5179.0564	-0.018216	5179.0924	-0.017522	5179.3792	-0.119846
20	102	5179.4268	-0.011067	5179.7717	-0.004408	5179.9101	-0.017355
	120	5179.9354	-0.001247	5179.8947	-0.002033	5179.6562	-0.066374
	138	5179.7828	-0.004193	5179.0535	-0.018273	5179.9636	-0.007037
10	102	5179.9391	-0.001176	5179.7599	-0.004636	5179.1767	-0.158945
	120	5179.8723	-0.002465	5179.0996	-0.017382	5179.8226	-0.034243
	138	5179.7792	-0.004263	5179.4824	-0.009992	5179.6730	-0.063123
0	102	5179.2982	-0.013548	5179.4101	-0.011389	5179.0718	-0.179188
	120	5179.4308	-0.010988	5179.9450	-0.001063	5179.6967	-0.058556
	138	5179.4532	-0.010556	5179.1615	-0.016188	5179.3222	-0.130854
-10	102	5179.3832	-0.011908	5179.1097	-0.017187	5179.8043	-0.037788
	120	5179.2259	-0.014944	5179.2812	-0.013877	5179.6869	-0.060436
	138	5179.7606	-0.004621	5179.1119	-0.017144	5179.7414	-0.049916
-20	102	5179.4970	-0.009711	5179.6696	-0.006379	5179.3358	-0.128225
	120	5179.4398	-0.010815	5179.5995	-0.007733	5179.4248	-0.111045
	138	5179.8862	-0.002196	5179.7869	-0.004114	5179.7340	-0.051355
-30	102	5179.5837	-0.008037	5179.9724	-0.000533	5179.7676	-0.044861
	120	5179.9357	-0.001241	5179.1066	-0.017248	5179.7421	-0.049780
	138	5179.3405	-0.012732	5179.2267	-0.014928	5179.9182	-0.015785

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.



13. Automatically Discontinue Transmission

13.1.Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

13.2.Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.