



FCC RADIO TEST REPORT

Applicant : Frontiir Pte (with Frontiir Co LTD, Myanmar)
Address : 809 Yakima Drive, Fremont, California 94539,
United States
Equipment : 802.11ac 2x2 dual-band AP
Model No. : LCA-C
Trade Name : FRONTiir
FCC ID. : 2AQLFLCC

I HEREBY CERTIFY THAT :

The sample was received on Feb. 14, 2020 and the testing was completed on Mar. 17, 2020 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issue Date	Description
TEFE2002077	Mar. 24, 2020	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB789033

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

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

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD2002077).



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Frequency Range	802.11b/g/n: 2400-2483.5MHz 802.11a/n/ac: 5150-5250MHz, 5725-5850MHz
Modulation Type	802.11b: CCK, DQPSK, DBPSK 802.11g/n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM
Data Rate	WLAN: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	Internal Antenna
Antenna Gain	2400-2483.5MHz: ANT A: 4.6dBi, ANT B: 5.3dBi 5150-5250MHz: ANT A: 4.5dBi, ANT B: 4.7dBi 5725-5850MHz: ANT A: 4.5dBi, ANT B: 4.7dBi

Note:

- 1.For more details, please refer to the User's manual of the EUT.
- 2.MIMO operational in 5GHz and 2.4GHz.



2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20

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

802.11n HT40, 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, 802.11n HT20, 802.11ac VHT20

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

802.11n HT40, 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

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- An executive program, " QRCT ver. 3.0.276.0" under Windows OS system was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps) , Power from Adapter
2	802.11ac VHT20 (6.5Mbps) , Power from Adapter
3	802.11ac VHT40 (13.5Mbps) , Power from Adapter
4	802.11ac VHT80 (29.3Mbps) , Power from Adapter
5	802.11a (6Mbps) , Power from PoE
6	802.11ac VHT20 (6.5Mbps) , Power from PoE
7	802.11ac VHT40 (13.5Mbps) , Power from PoE
8	802.11ac VHT80 (29.3Mbps) , Power from PoE
caused "Test Mode 2, 6" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) , Power from Adapter
2	802.11ac VHT20 (6.5Mbps) , Power from Adapter
3	802.11ac VHT40 (13.5Mbps) , Power from Adapter
4	802.11ac VHT80 (29.3Mbps) , Power from Adapter
5	802.11a (6Mbps) , Power from PoE
6	802.11ac VHT20 (6.5Mbps) , Power from PoE
7	802.11ac VHT40 (13.5Mbps) , Power from PoE
8	802.11ac VHT80 (29.3Mbps) , Power from PoE
caused "Test Mode 2, 6" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ac VHT20 (6.5Mbps)
3	802.11ac VHT40 (13.5Mbps)
4	802.11ac VHT80 (29.3Mbps)
caused "Test Mode 1~4" generated the worst case, they were reported as the final data.	



2.4. Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Vostro 3560	N/A	Adapter / 1.8m / NS
Adapter	APD	WA-36A12U	1.5m / NS	N/A
RJ45 Cable	N/A	N/A	1.2m / NS	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Adapter	APD	WA-36A12U	1.5m / NS	N/A
POE	Gospower	G0720-240-100	N/A	N/A
RJ45 Cable	N/A	N/A	1.2m / NS	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Adapter	APD	WA-36A12U	1.5m / NS	N/A
POE	Gospower	G0720-240-100	N/A	N/A
RJ45 Cable	N/A	N/A	1.2m / NS	N/A
RJ45 Cable	N/A	N/A	1.2m / NS	N/A

**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	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Finish Date	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2020/03/14	22°C / 60%	Nick Guan
Radiated Emissions	3M02-NK	2020/03/17	22°C / 48%	Vic Yeh
AC Power Line Conducted Emission	CON01-NK	2020/02/29	22°C / 49%	Leon Huang

2.6. Measurement Uncertainty

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±1.60dB
Radiated Spurious Emission(9KHz~30MHz)	±3.405dB
Radiated Spurious Emission(30MHz~1GHz)	±5.326dB
Radiated Spurious Emission(1GHz~40GHz)	±5.011dB
6dB Bandwidth	±4.407%
26dB Bandwidth	±4.459%
Occupied Bandwidth	±4.403%
Peak Output Power(Conducted Power Meter)	±1.31dB
Power Spectral Density	±2.106dB
Duty Cycle	±0.17%
Frequency Stability	±156.543Hz



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2019/09/24	2020/09/23
Bilog Antenna	Schwarzbeck	VULB9168	369	2019/03/29	2020/03/28
Active Loop Antenna	EMCO	6507	40855	2019/05/24	2020/05/23
Horn Antenna	EMCO	3115	31589	2019/04/01	2020/03/31
Horn Antenna	EMCO	3116	31974	2019/09/17	2020/09/16
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2019/05/14	2020/05/13
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100219	2019/07/22	2020/07/21
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2019/08/02	2020/08/01
Preamplifier	EM Electronics corp.	EM330	60660	2020/03/16	2021/03/15
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2019/09/20	2020/09/19
Preamplifier	Agilent	8449B	3008A01954	2020/03/16	2021/03/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2019/11/07	2020/11/06
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2019/04/09	2020/04/08
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2019/09/20	2020/09/19
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805443/4	2019/05/20	2020/05/19
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805796/4	2019/05/20	2020/05/19
Cable-8m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805795/4	2019/05/20	2020/05/19
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2019/08/02	2020/08/01
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Attenuator	KEYSIGHT	8491B	MY39250703	2019/09/12	2020/09/11
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2019/08/28	2020/08/27
Power Meter	Anritsu	ML2495A	1224005	2019/04/11	2020/04/10
Power Sensor	Anritsu	MA2411B	1207295	2019/04/09	2020/04/08



Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	100821	2019/09/16	2020/09/15
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2019/03/15	2020/03/14
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2019/03/12	2020/03/11
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2019/03/14	2020/03/13
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Antenna Requirements

4.1. Standard Applicable

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

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

4.2. Antenna Construction and Directional Gain

Antenna Type	Internal Antenna
Antenna Gain	2.4GHz: ANT A: 4.6 dBi ; ANT B: 5.3 dBi 5150MHz-5250MHz: ANT A: 4.5 dBi ; ANT B: 4.7 dBi 5725MHz-5850MHz: ANT A: 4.5 dBi ; ANT B: 4.7 dBi

2412-2462MHz
For Power directional gain= $G_{ant}= 5.30$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ = 7.97 (dBi)
5150MHz -5250MHz
For Power directional gain= $G_{ant}= 4.70$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ = 7.61 (dBi)
5725MHz -5850MHz
For Power directional gain= $G_{ant}= 4.70$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ = 7.61 (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

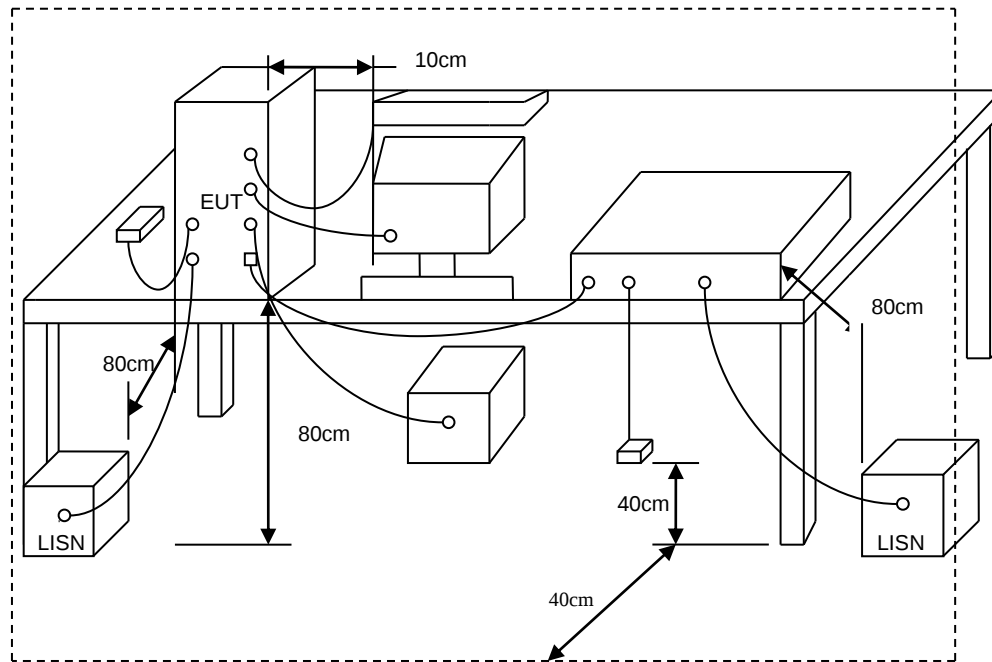
*Decreases with the logarithm of the frequency.

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.



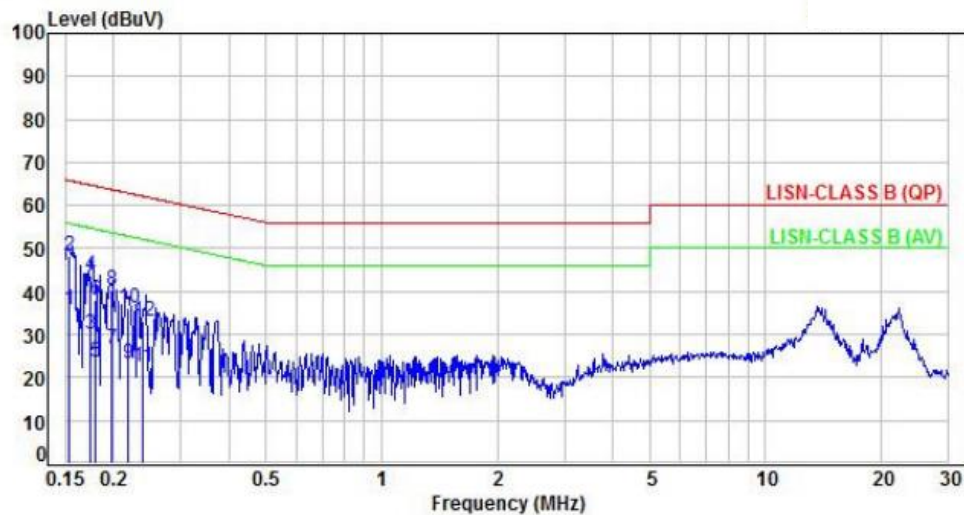
5.3. Typical Test Setup





5.4. Test Result and Data

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 2, CH40		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	25.96	35.88	55.84	-19.96	Average	P
2	0.15	9.92	38.22	48.14	65.84	-17.70	QP	P
3	0.17	9.92	20.27	30.19	54.75	-24.56	Average	P
4	0.17	9.92	33.68	43.60	64.75	-21.15	QP	P
5	0.18	9.92	13.61	23.53	54.48	-30.95	Average	P
6	0.18	9.92	28.17	38.09	64.48	-26.39	QP	P
7	0.20	9.92	16.82	26.74	53.71	-26.97	Average	P
8	0.20	9.92	30.21	40.13	63.71	-23.58	QP	P
9	0.22	9.92	13.30	23.22	52.90	-29.68	Average	P
10	0.22	9.92	26.23	36.15	62.90	-26.75	QP	P
11	0.24	9.92	12.46	22.38	52.14	-29.76	Average	P
12	0.24	9.92	23.07	32.99	62.14	-29.15	QP	P

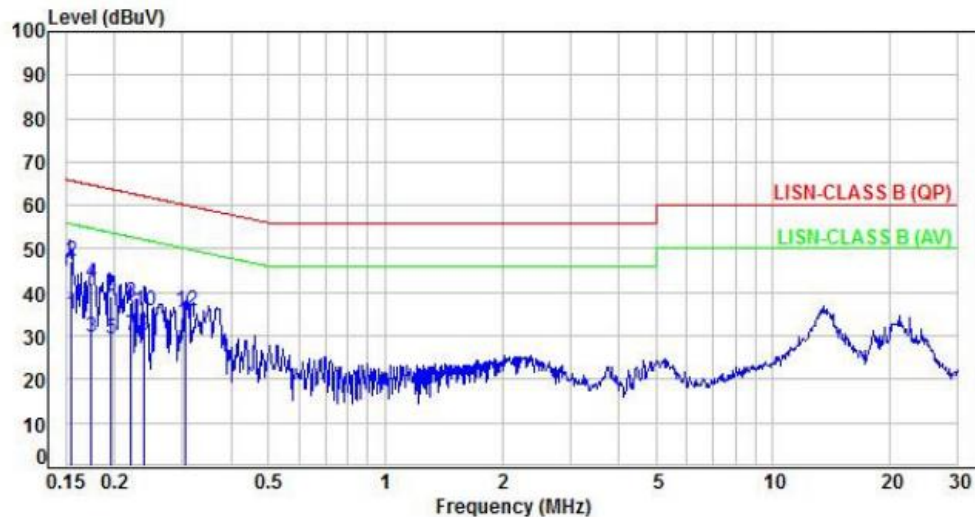
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 2, CH40		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.95	24.89	34.84	55.77	-20.93	Average	P
2	0.15	9.95	37.30	47.25	65.77	-18.52	QP	P
3	0.17	9.95	19.84	29.79	54.79	-25.00	Average	P
4	0.17	9.95	32.31	42.26	64.79	-22.53	QP	P
5	0.20	9.95	19.35	29.30	53.77	-24.47	Average	P
6	0.20	9.95	29.23	39.18	63.77	-24.59	QP	P
7	0.22	9.95	20.16	30.11	52.82	-22.71	Average	P
8	0.22	9.95	27.53	37.48	62.82	-25.34	QP	P
9	0.24	9.95	20.26	30.21	52.11	-21.90	Average	P
10	0.24	9.95	25.83	35.78	62.11	-26.33	QP	P
11	0.31	9.95	23.02	32.97	50.09	-17.12	Average	P
12	0.31	9.95	25.77	35.72	60.09	-24.37	QP	P

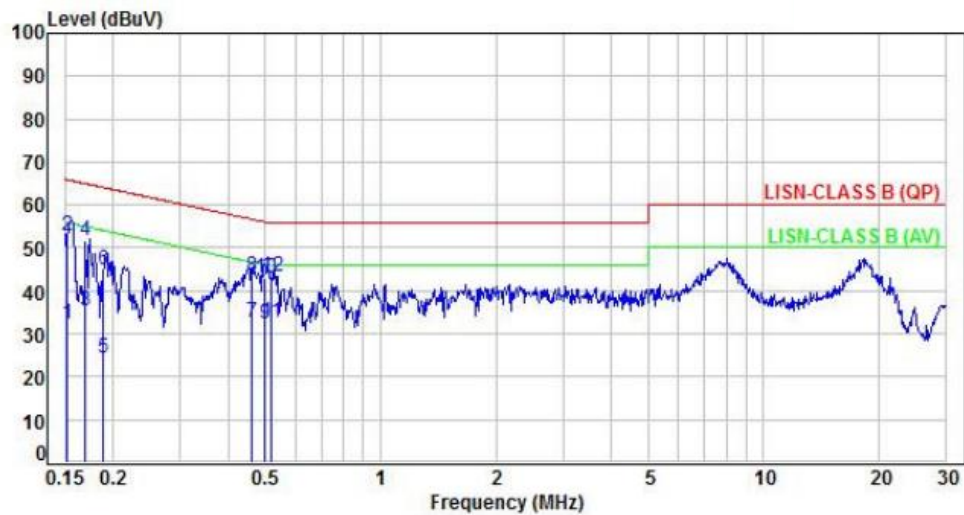
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	:	AC 120V / 60Hz	Pol/Phase	:	LINE
Test Mode	:	Mode 6, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.15	9.92	22.49	32.41	55.89	-23.48	Average	P
2	0.15	9.92	43.12	53.04	65.89	-12.85	QP	P
3	0.17	9.92	25.49	35.41	55.02	-19.61	Average	P
4	0.17	9.92	41.69	51.61	65.02	-13.41	QP	P
5	0.19	9.92	14.29	24.21	54.07	-29.86	Average	P
6	0.19	9.92	35.08	45.00	64.07	-19.07	QP	P
7	0.46	9.94	22.77	32.71	46.71	-14.00	Average	P
8	0.46	9.94	33.22	43.16	56.71	-13.55	QP	P
9	0.50	9.94	22.37	32.31	46.00	-13.69	Average	P
10	0.50	9.94	33.17	43.11	56.00	-12.89	QP	P
11	0.52	9.95	22.83	32.78	46.00	-13.22	Average	P
12	0.52	9.95	33.31	43.26	56.00	-12.74	QP	P

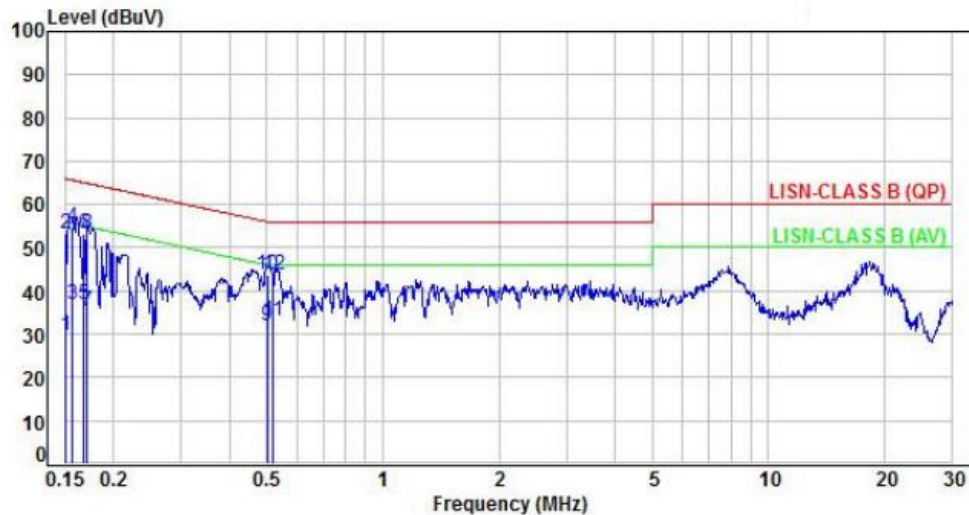
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 6, CH40		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.15	9.95	19.65	29.60	55.96	-26.36	Average	P
2	0.15	9.95	43.45	53.40	65.96	-12.56	QP	P
3	0.16	9.95	26.82	36.77	55.64	-18.87	Average	P
4	0.16	9.95	44.90	54.85	65.64	-10.79	QP	P
5	0.17	9.95	27.04	36.99	55.09	-18.10	Average	P
6	0.17	9.95	43.10	53.05	65.09	-12.04	QP	P
7	0.17	9.95	25.49	35.44	54.88	-19.44	Average	P
8	0.17	9.95	43.23	53.18	64.88	-11.70	QP	P
9	0.50	9.96	21.81	31.77	46.00	-14.23	Average	P
10	0.50	9.96	33.73	43.69	56.00	-12.31	QP	P
11	0.52	9.96	23.14	33.10	46.00	-12.90	Average	P
12	0.52	9.96	33.74	43.70	56.00	-12.30	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Spurious Emission (Radiated)

6.1. Test Limit

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

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



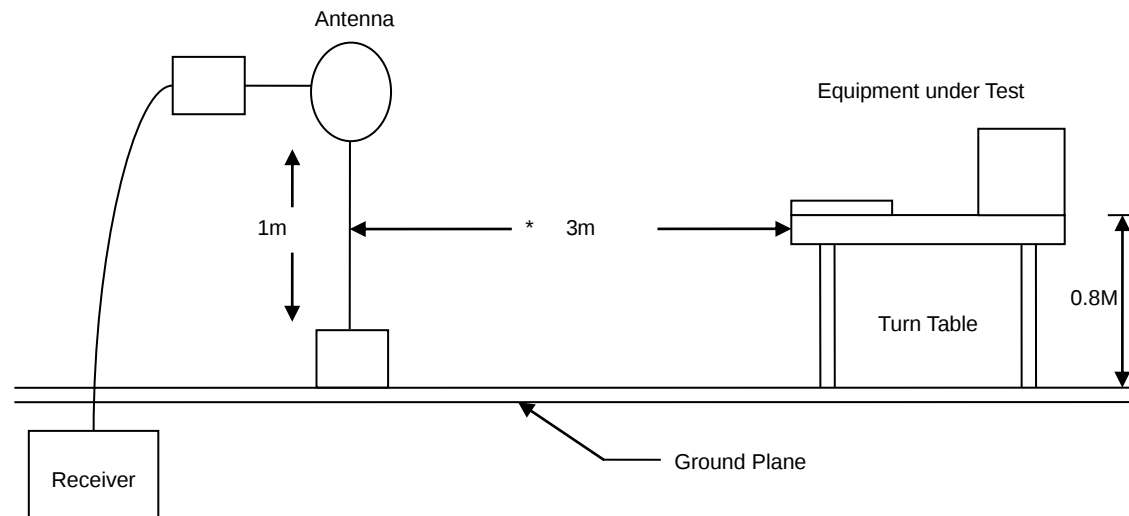
6.2. Test Procedures

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

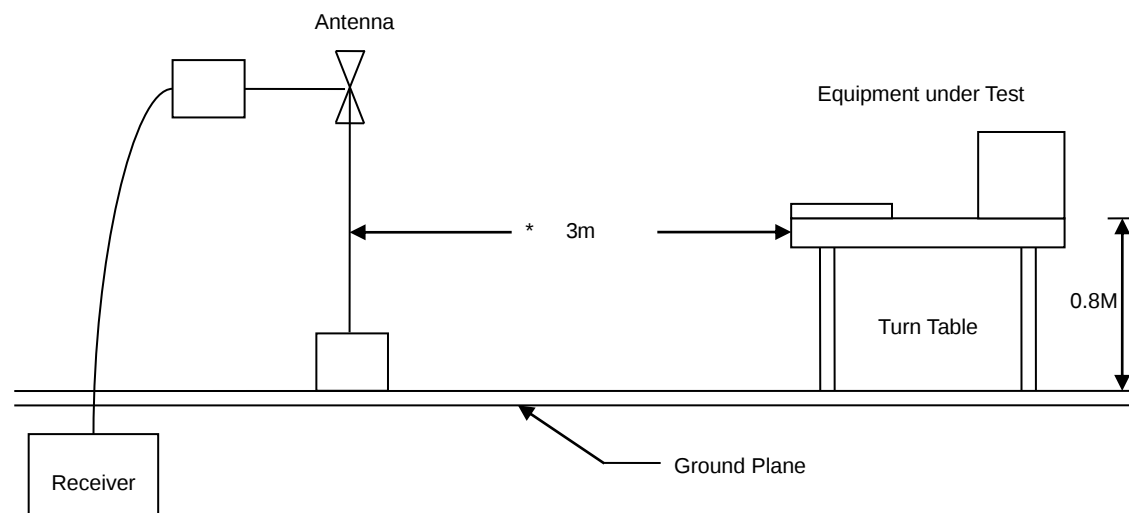


6.3. Typical Test Setup

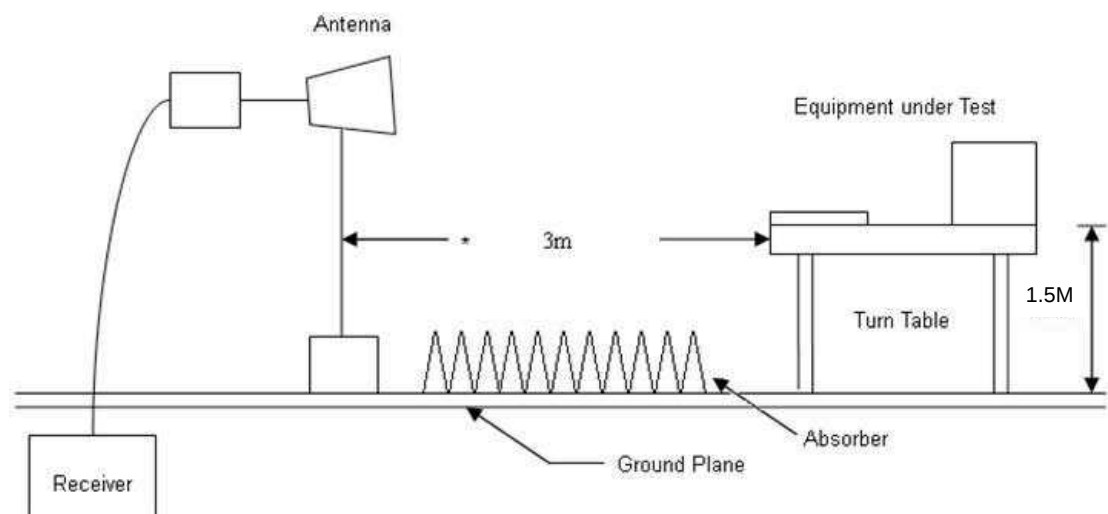
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



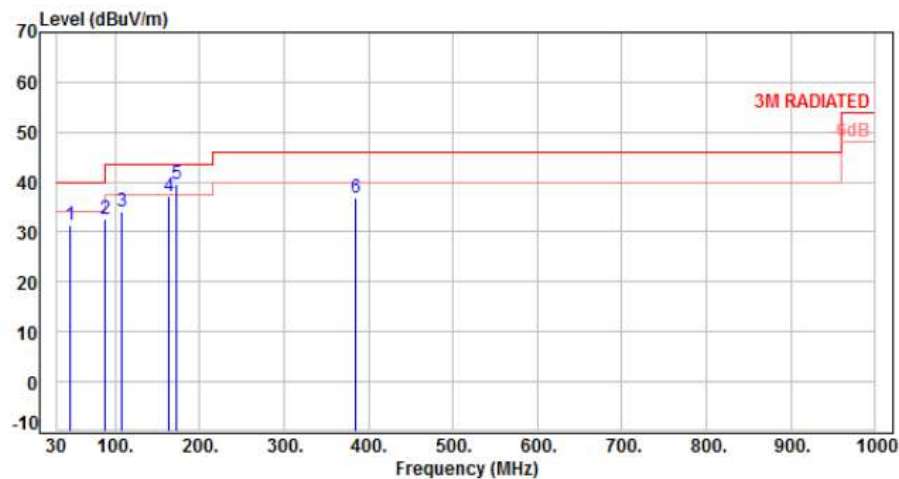


6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

Power	:	AC 120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	46.49	-9.30	40.52	31.22	40.00	-8.78	Peak	400	0	P
2	88.20	-15.45	48.03	32.58	43.50	-10.92	Peak	400	0	P
3	107.60	-12.81	46.80	33.99	43.50	-9.51	Peak	400	0	P
4	163.86	-9.50	46.73	37.23	43.50	-6.27	Peak	400	0	P
5	171.62	-9.90	49.34	39.44	43.50	-4.06	Peak	400	0	P
6	384.05	-6.10	43.09	36.99	46.00	-9.01	Peak	400	0	P

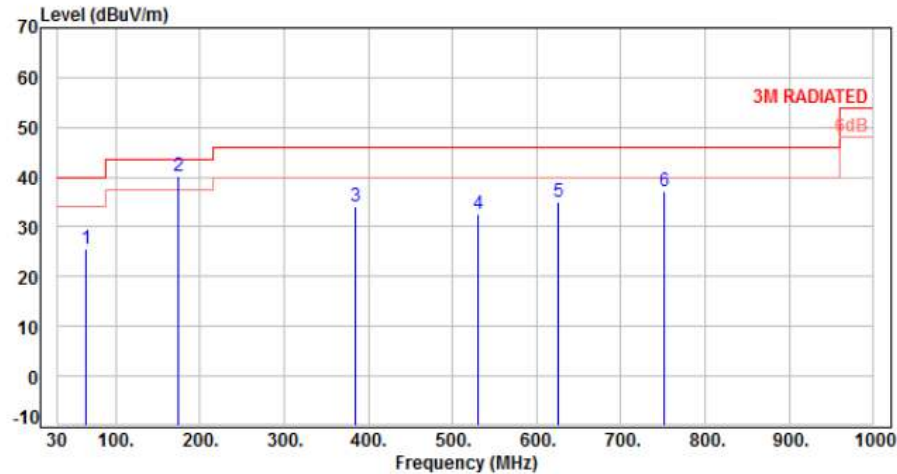
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	64.92	-10.68	36.30	25.62	40.00	-14.38	Peak	100	0	P
2	174.53	-10.19	50.41	40.22	43.50	-3.28	Peak	100	0	P
3	384.05	-6.10	40.09	33.99	46.00	-12.01	Peak	100	0	P
4	529.55	-2.86	35.38	32.52	46.00	-13.48	Peak	100	0	P
5	625.58	-0.71	35.68	34.97	46.00	-11.03	Peak	100	0	P
6	750.71	1.13	36.03	37.16	46.00	-8.84	Peak	100	0	P

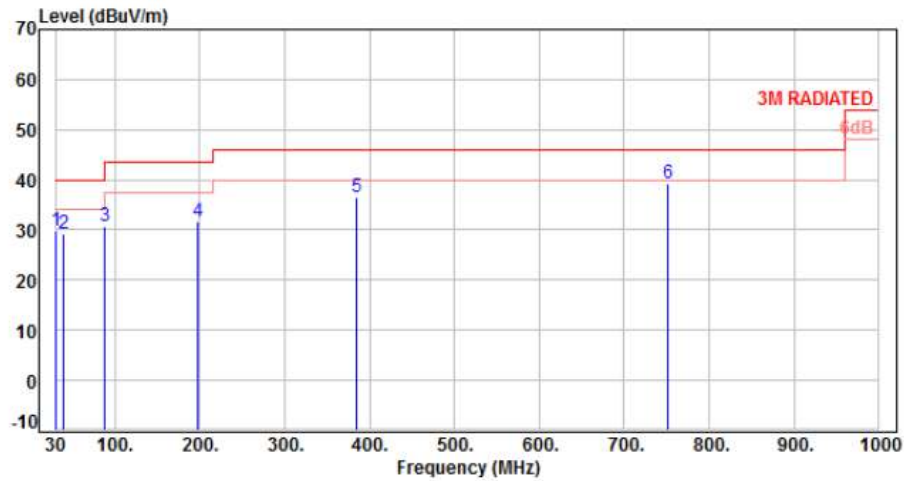
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6, CH40		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.97	-10.26	40.16	29.90	40.00	-10.10	Peak	400	0	P
2	39.70	-9.68	39.01	29.33	40.00	-10.67	Peak	400	0	P
3	87.23	-15.36	46.12	30.76	40.00	-9.24	Peak	400	0	P
4	197.81	-12.03	43.64	31.61	43.50	-11.89	Peak	400	0	P
5	384.05	-6.10	42.59	36.49	46.00	-9.51	Peak	400	0	P
6	750.71	1.13	38.01	39.14	46.00	-6.86	Peak	400	0	P

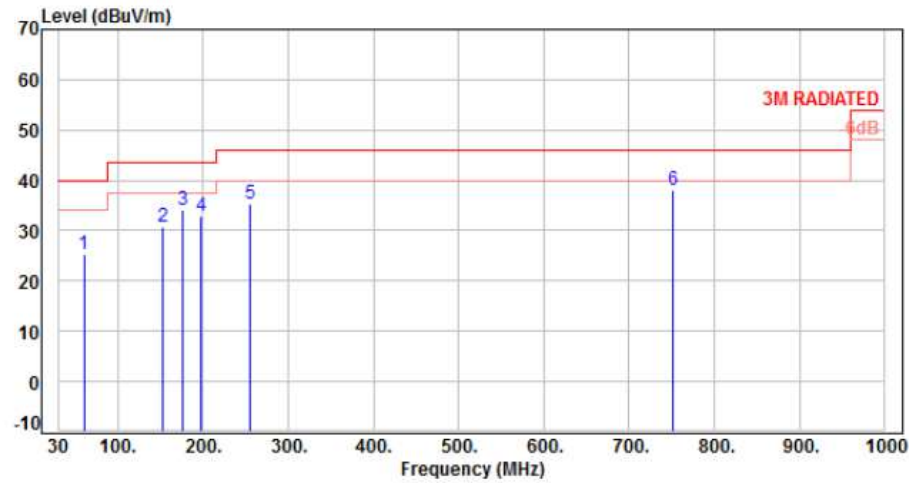
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	60.07	-9.98	35.41	25.43	40.00	-14.57	Peak	100	0	P
2	152.22	-9.52	40.38	30.86	43.50	-12.64	Peak	100	0	P
3	175.50	-10.29	44.34	34.05	43.50	-9.45	Peak	100	0	P
4	197.81	-12.03	45.06	33.03	43.50	-10.47	Peak	100	0	P
5	256.01	-10.14	45.56	35.42	46.00	-10.58	Peak	100	0	P
6	750.71	1.13	37.05	38.18	46.00	-7.82	Peak	100	0	P

Note: Level=Reading+Factor

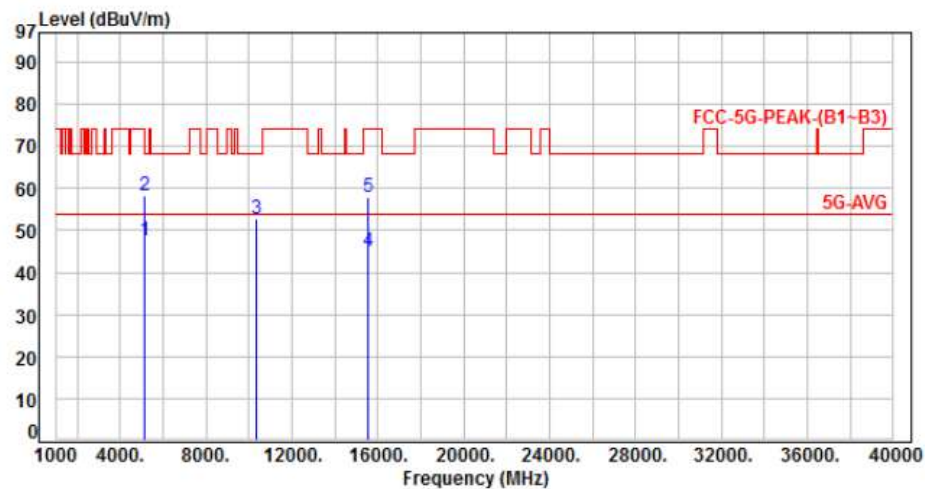
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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

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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	43.02	47.75	54.00	-6.25	Average	100	90	P
2	5150.00	4.73	53.64	58.37	74.00	-15.63	Peak	100	90	P
3	10360.00	11.43	41.22	52.65	68.20	-15.55	Peak	100	90	P
4	15540.00	14.27	30.71	44.98	54.00	-9.02	Average	100	197	P
5	15540.00	14.27	43.81	58.08	74.00	-15.92	Peak	100	197	P

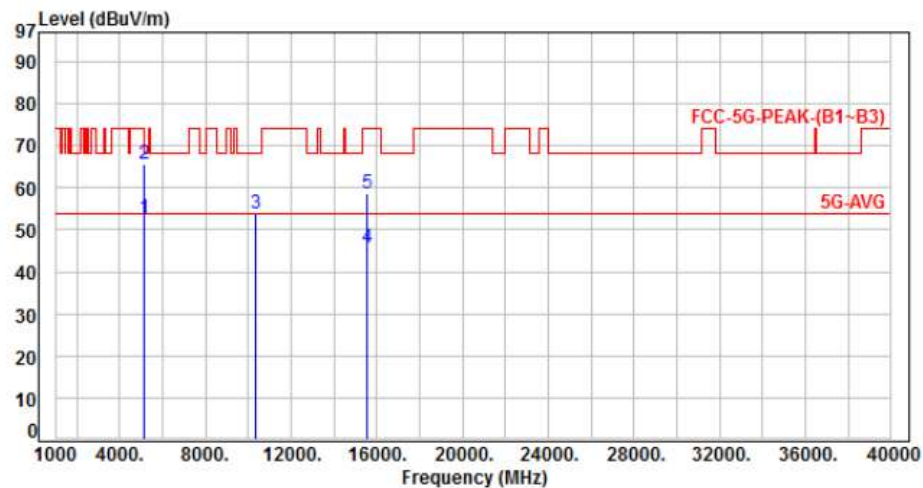
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	48.00	52.73	54.00	-1.27	Average	245	303	P
2	5150.00	4.73	60.88	65.61	74.00	-8.39	Peak	245	303	P
3	10360.00	11.43	42.28	53.71	68.20	-14.49	Peak	100	158	P
4	15540.00	14.27	31.32	45.59	54.00	-8.41	Average	192	42	P
5	15540.00	14.27	44.46	58.73	74.00	-15.27	Peak	192	42	P

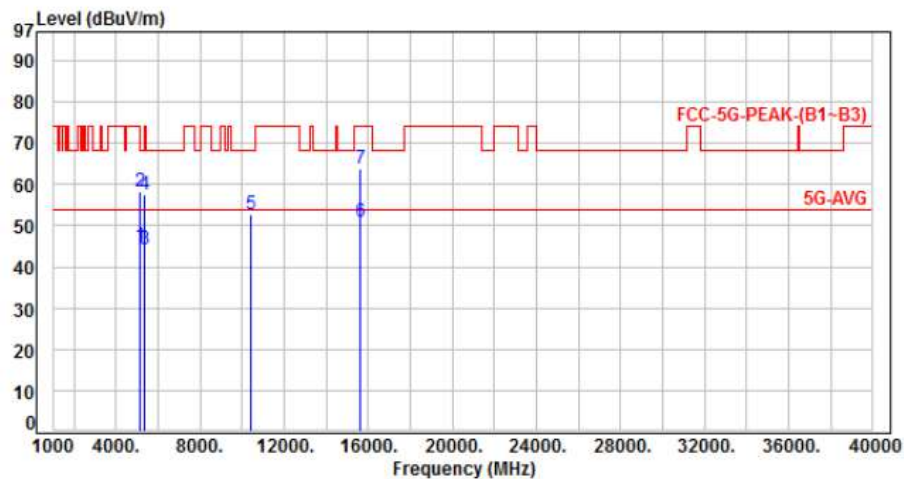
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 1, CH40		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	40.21	44.94	54.00	-9.06	Average	118	88	P
2	5150.00	4.73	53.72	58.45	74.00	-15.55	Peak	118	88	P
3	5350.00	5.07	39.27	44.34	54.00	-9.66	Average	100	122	P
4	5350.00	5.07	52.43	57.50	74.00	-16.50	Peak	100	122	P
5	10400.00	11.45	41.42	52.87	68.20	-15.33	Peak	100	88	P
6	15600.00	13.88	37.05	50.93	54.00	-3.07	Average	100	195	P
7	15600.00	13.88	49.80	63.68	74.00	-10.32	Peak	100	195	P

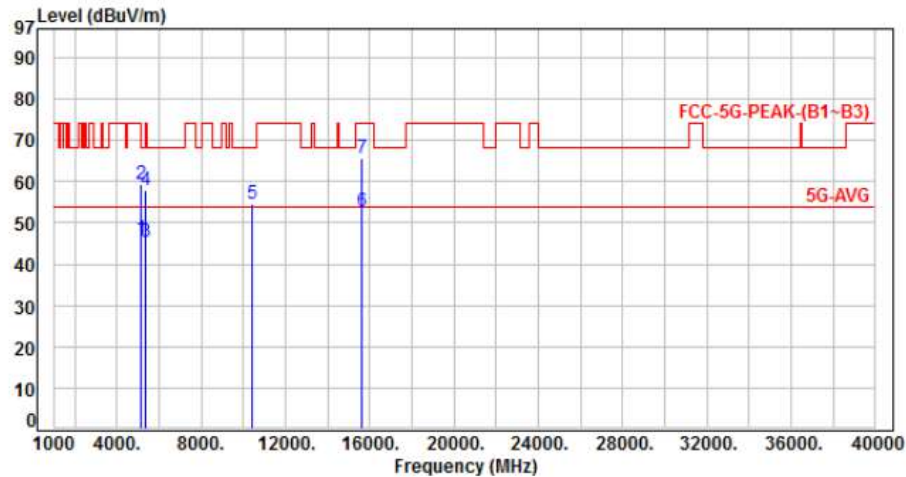
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	41.50	46.23	54.00	-7.77	Average	245	302	P
2	5150.00	4.73	54.69	59.42	74.00	-14.58	Peak	245	302	P
3	5350.00	5.07	40.33	45.40	54.00	-8.60	Average	150	133	P
4	5350.00	5.07	52.81	57.88	74.00	-16.12	Peak	150	133	P
5	10400.00	11.45	43.12	54.57	68.20	-13.63	Peak	100	352	P
6	15600.00	13.88	38.95	52.83	54.00	-1.17	Average	190	40	P
7	15600.00	13.88	51.70	65.58	74.00	-8.42	Peak	190	40	P

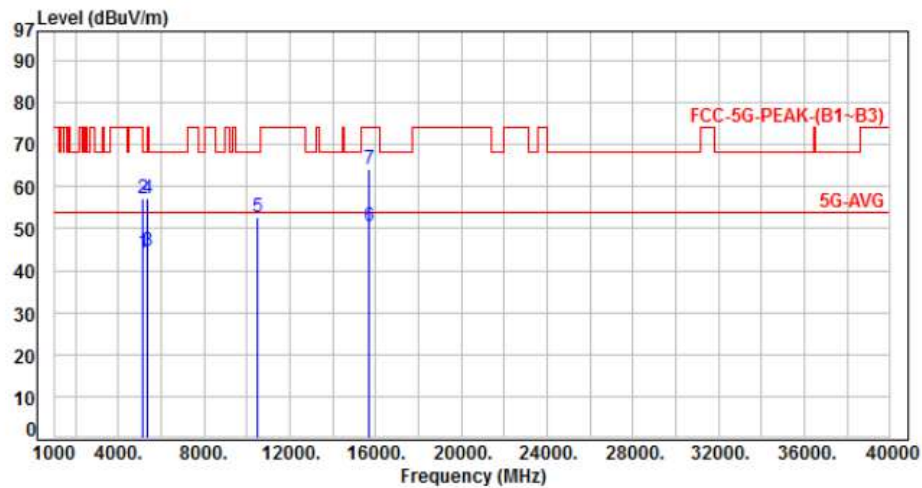
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	39.70	44.43	54.00	-9.57	Average	100	90	P
2	5150.00	4.73	52.30	57.03	74.00	-16.97	Peak	100	90	P
3	5350.00	5.07	39.40	44.47	54.00	-9.53	Average	100	90	P
4	5350.00	5.07	52.06	57.13	74.00	-16.87	Peak	100	90	P
5	10480.00	11.65	41.26	52.91	68.20	-15.29	Peak	100	85	P
6	15720.00	13.60	36.90	50.50	54.00	-3.50	Average	100	193	P
7	15720.00	13.60	50.63	64.23	74.00	-9.77	Peak	100	193	P

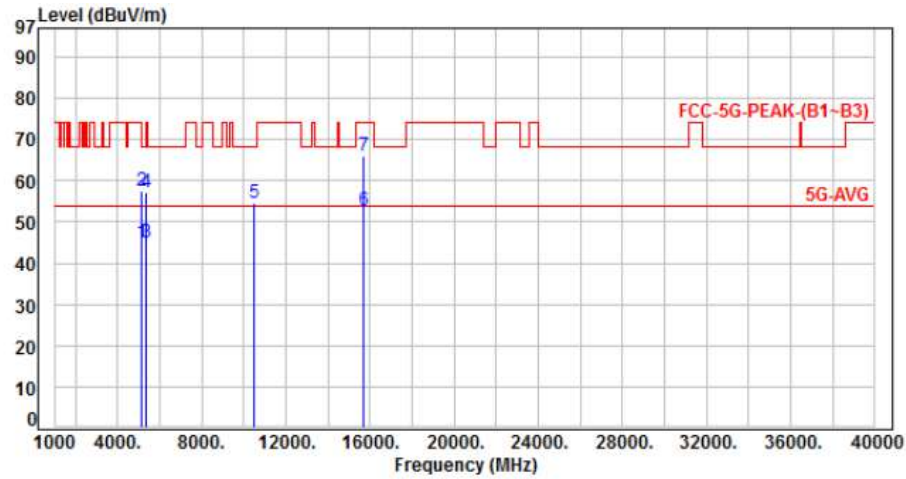
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	40.08	44.81	54.00	-9.19	Average	239	303	P
2	5150.00	4.73	52.92	57.65	74.00	-16.35	Peak	239	303	P
3	5350.00	5.07	39.94	45.01	54.00	-8.99	Average	239	303	P
4	5350.00	5.07	52.28	57.35	74.00	-16.65	Peak	239	303	P
5	10480.00	11.65	42.94	54.59	68.20	-13.61	Peak	100	348	P
6	15720.00	13.60	39.21	52.81	54.00	-1.19	Average	193	40	P
7	15720.00	13.60	52.30	65.90	74.00	-8.10	Peak	193	40	P

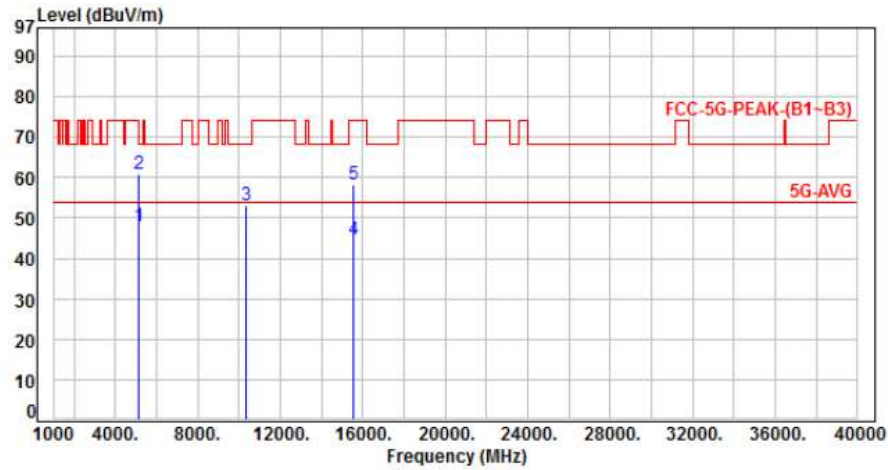
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	43.19	47.92	54.00	-6.08	Average	176	241	P
2	5150.00	4.73	56.30	61.03	74.00	-12.97	Peak	176	241	P
3	10360.00	11.43	41.64	53.07	68.20	-15.13	Peak	100	96	P
4	15540.00	14.27	30.38	44.65	54.00	-9.35	Average	100	194	P
5	15540.00	14.27	44.10	58.37	74.00	-15.63	Peak	100	194	P

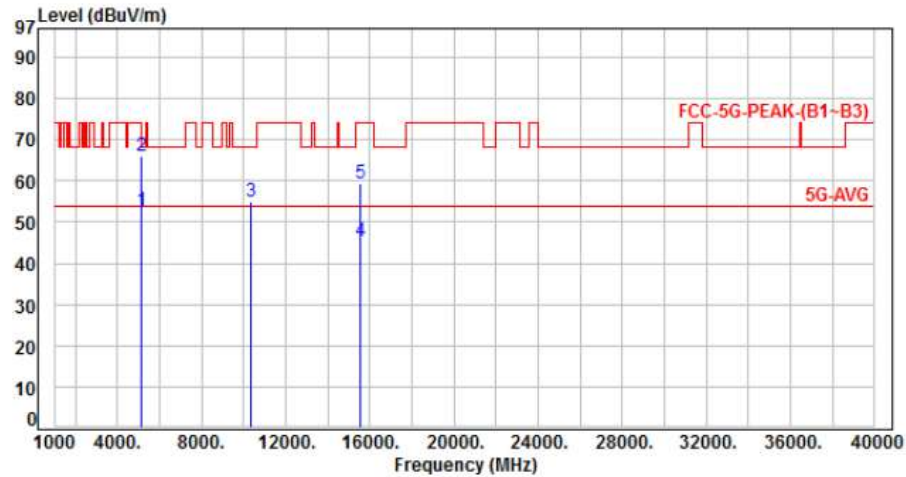
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	48.05	52.78	54.00	-1.22	Average	100	303	P
2	5150.00	4.73	61.12	65.85	74.00	-8.15	Peak	100	303	P
3	10360.00	11.43	43.49	54.92	68.20	-13.28	Peak	100	166	P
4	15540.00	14.27	31.19	45.46	54.00	-8.54	Average	194	43	P
5	15540.00	14.27	45.12	59.39	74.00	-14.61	Peak	194	43	P

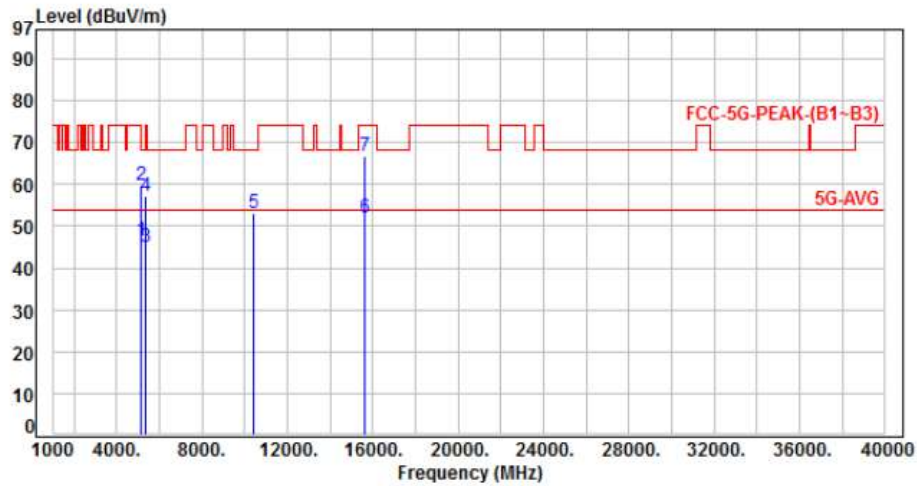
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 1, CH40		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	41.87	46.60	54.00	-7.40	Average	174	308	P
2	5150.00	4.73	55.16	59.89	74.00	-14.11	Peak	174	308	P
3	5350.00	5.07	39.76	44.83	54.00	-9.17	Average	100	130	P
4	5350.00	5.07	52.13	57.20	74.00	-16.80	Peak	100	130	P
5	10400.00	11.45	41.63	53.08	68.20	-15.12	Peak	100	83	P
6	15600.00	13.88	38.08	51.96	54.00	-2.04	Average	100	194	P
7	15600.00	13.88	53.05	66.93	74.00	-7.07	Peak	100	194	P

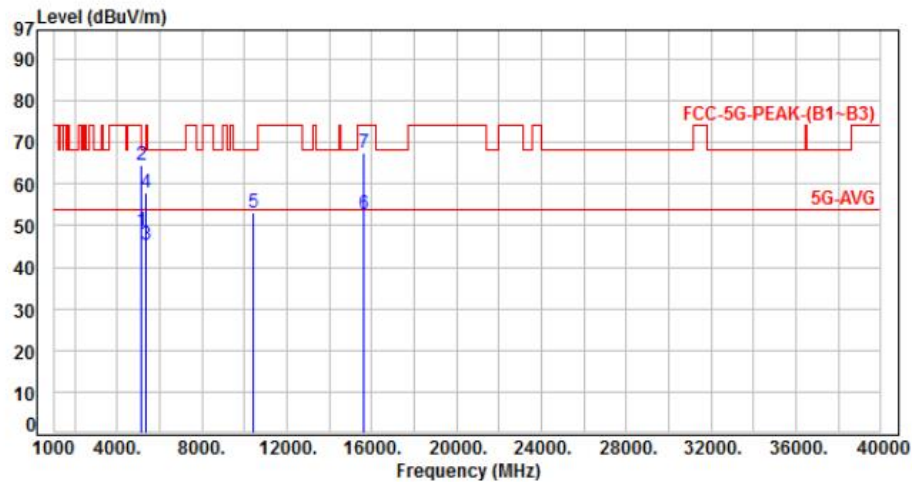
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	44.08	48.81	54.00	-5.19	Average	122	303	P
2	5150.00	4.73	59.68	64.41	74.00	-9.59	Peak	122	303	P
3	5350.00	5.07	40.24	45.31	54.00	-8.69	Average	120	300	P
4	5350.00	5.07	52.84	57.91	74.00	-16.09	Peak	120	300	P
5	10400.00	11.45	41.52	52.97	68.20	-15.23	Peak	100	85	P
6	15600.00	13.88	38.96	52.84	54.00	-1.16	Average	188	40	P
7	15600.00	13.88	53.52	67.40	74.00	-6.60	Peak	188	40	P

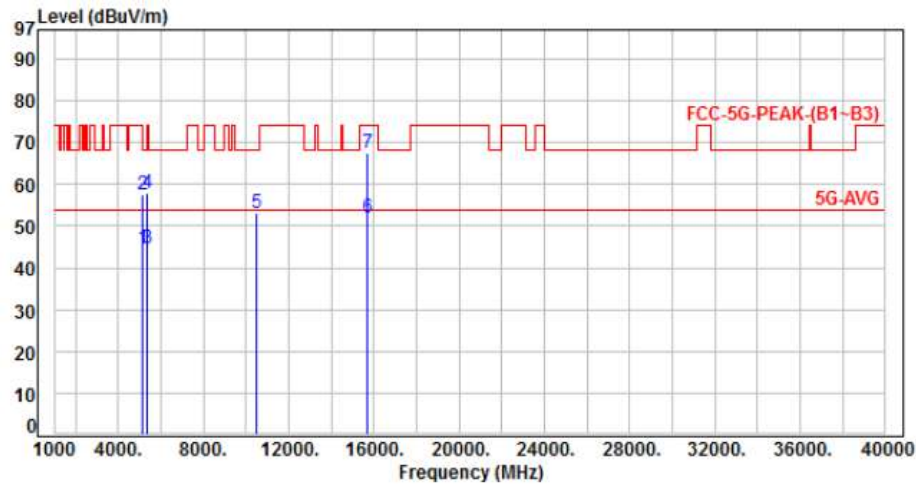
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	39.86	44.59	54.00	-9.41	Average	100	93	P
2	5150.00	4.73	52.98	57.71	74.00	-16.29	Peak	100	93	P
3	5350.00	5.07	39.58	44.65	54.00	-9.35	Average	100	93	P
4	5350.00	5.07	52.85	57.92	74.00	-16.08	Peak	100	93	P
5	10480.00	11.65	41.48	53.13	68.20	-15.07	Peak	100	83	P
6	15720.00	13.60	38.25	51.85	54.00	-2.15	Average	100	192	P
7	15720.00	13.60	53.75	67.35	74.00	-6.65	Peak	100	192	P

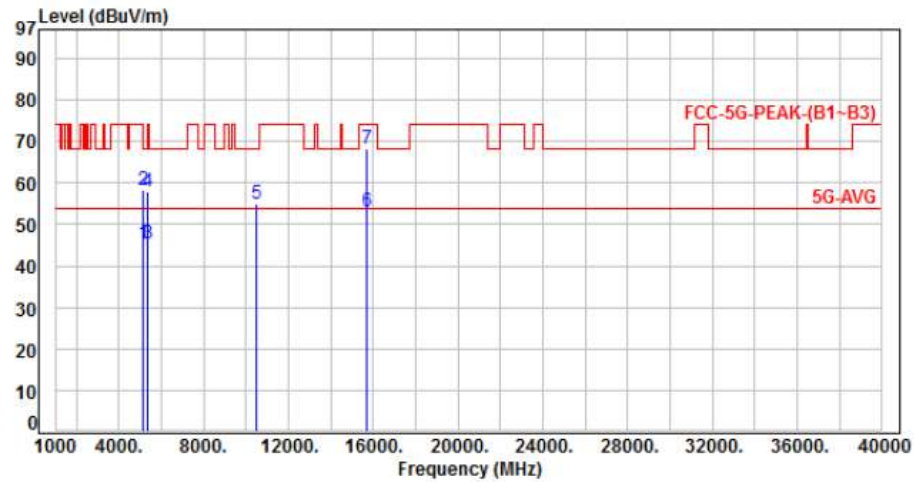
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	40.79	45.52	54.00	-8.48	Average	100	302	P
2	5150.00	4.73	53.40	58.13	74.00	-15.87	Peak	100	302	P
3	5350.00	5.07	40.25	45.32	54.00	-8.68	Average	100	302	P
4	5350.00	5.07	52.70	57.77	74.00	-16.23	Peak	100	302	P
5	10480.00	11.65	43.16	54.81	68.20	-13.39	Peak	100	351	P
6	15720.00	13.60	39.39	52.99	54.00	-1.01	Average	192	40	P
7	15720.00	13.60	54.81	68.41	74.00	-5.59	Peak	192	40	P

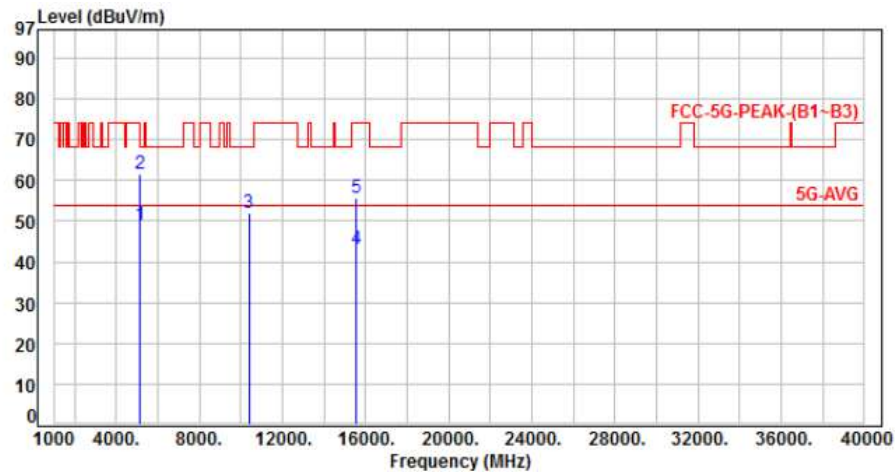
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	44.18	48.91	54.00	-5.09	Average	206	233	P
2	5150.00	4.73	56.70	61.43	74.00	-12.57	Peak	206	233	P
3	10380.00	11.44	40.61	52.05	68.20	-16.15	Peak	100	91	P
4	15570.00	14.07	29.16	43.23	54.00	-10.77	Average	100	196	P
5	15570.00	14.07	41.61	55.68	74.00	-18.32	Peak	100	196	P

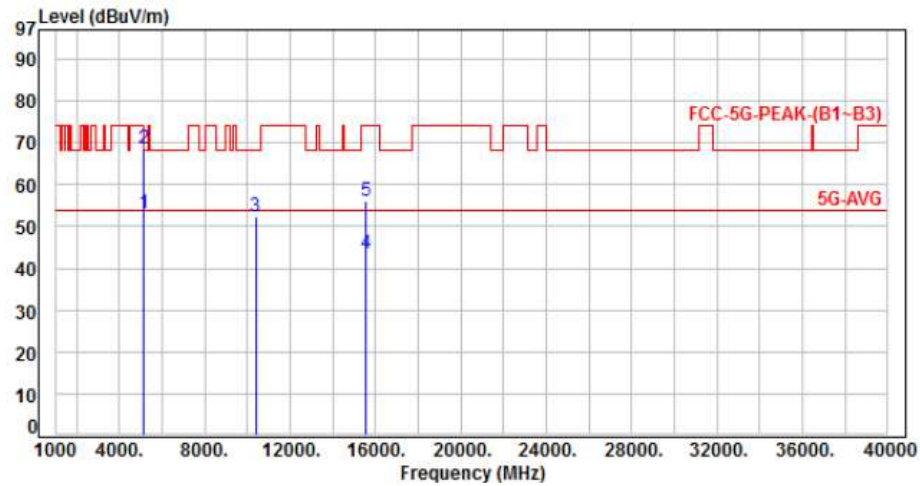
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	48.23	52.96	54.00	-1.04	Average	100	302	P
2	5150.00	4.73	63.80	68.53	74.00	-5.47	Peak	100	302	P
3	10380.00	11.44	41.06	52.50	68.20	-15.70	Peak	100	355	P
4	15570.00	14.07	29.37	43.44	54.00	-10.56	Average	188	43	P
5	15570.00	14.07	41.96	56.03	74.00	-17.97	Peak	188	43	P

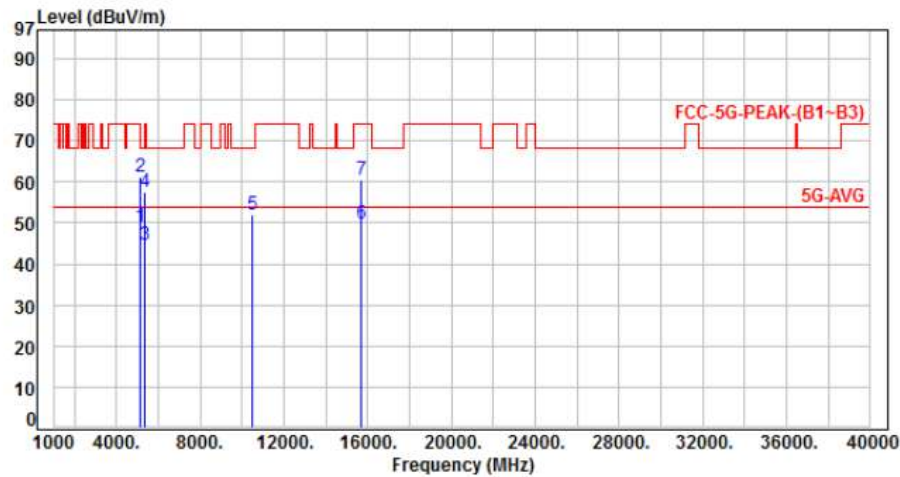
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	44.42	49.15	54.00	-4.85	Average	183	122	P
2	5150.00	4.73	56.31	61.04	74.00	-12.96	Peak	183	122	P
3	5350.00	5.07	39.60	44.67	54.00	-9.33	Average	183	122	P
4	5350.00	5.07	52.60	57.67	74.00	-16.33	Peak	183	122	P
5	10460.00	11.60	40.52	52.12	68.20	-16.08	Peak	100	86	P
6	15690.00	13.64	36.20	49.84	54.00	-4.16	Average	100	194	P
7	15690.00	13.64	46.90	60.54	74.00	-13.46	Peak	100	194	P

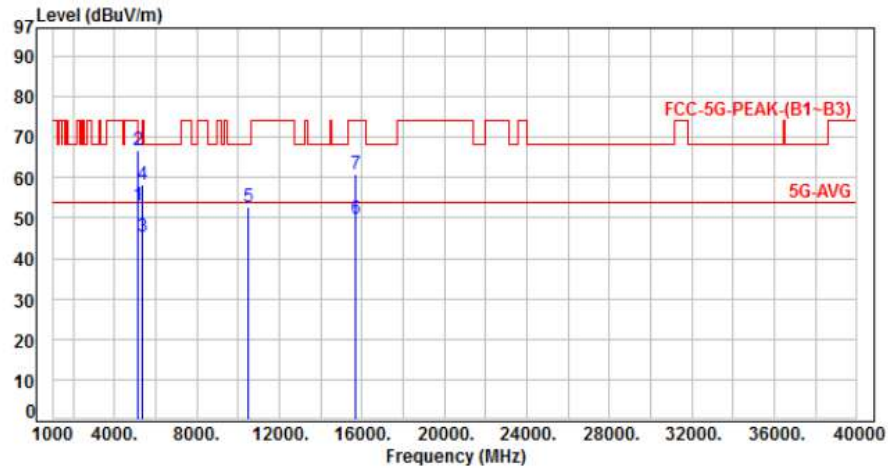
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	48.26	52.99	54.00	-1.01	Average	122	311	P
2	5150.00	4.73	62.07	66.80	74.00	-7.20	Peak	122	311	P
3	5350.00	5.07	40.32	45.39	54.00	-8.61	Average	122	311	P
4	5350.00	5.07	53.20	58.27	74.00	-15.73	Peak	122	311	P
5	10460.00	11.60	40.96	52.56	68.20	-15.64	Peak	178	62	P
6	15690.00	13.64	36.23	49.87	54.00	-4.13	Average	178	62	P
7	15690.00	13.64	47.05	60.69	74.00	-13.31	Peak	178	62	P

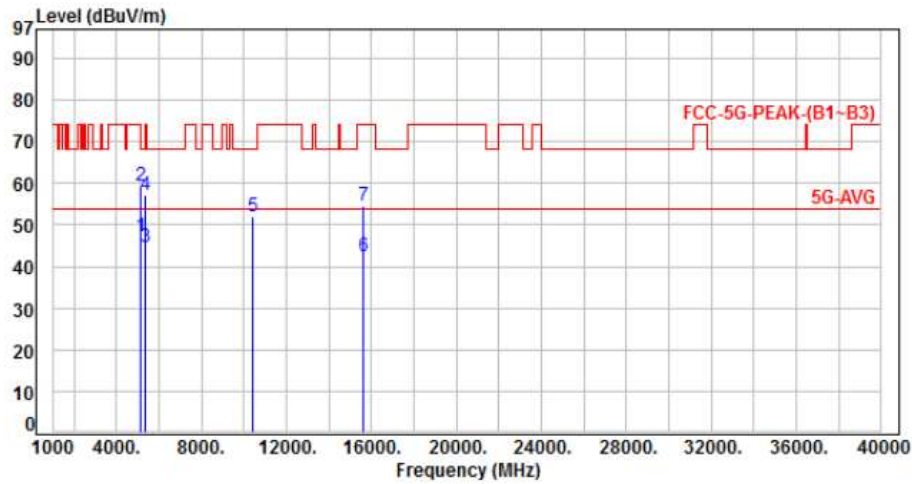
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	42.53	47.26	54.00	-6.74	Average	150	123	P
2	5150.00	4.73	54.53	59.26	74.00	-14.74	Peak	150	123	P
3	5350.00	5.07	39.55	44.62	54.00	-9.38	Average	150	123	P
4	5350.00	5.07	52.13	57.20	74.00	-16.80	Peak	150	123	P
5	10420.00	11.49	40.52	52.01	68.20	-16.19	Peak	100	96	P
6	15630.00	13.80	28.76	42.56	54.00	-11.44	Average	100	191	P
7	15630.00	13.80	40.72	54.52	74.00	-19.48	Peak	100	191	P

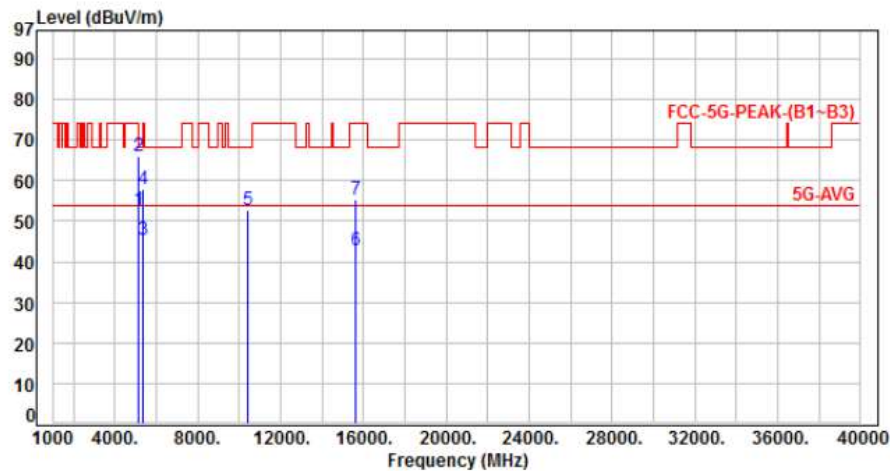
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	48.15	52.88	54.00	-1.12	Average	163	306	P
2	5150.00	4.73	61.16	65.89	74.00	-8.11	Peak	163	306	P
3	5350.00	5.07	40.16	45.23	54.00	-8.77	Average	163	306	P
4	5350.00	5.07	52.74	57.81	74.00	-16.19	Peak	163	306	P
5	10420.00	11.49	41.30	52.79	68.20	-15.41	Peak	100	318	P
6	15630.00	13.80	29.16	42.96	54.00	-11.04	Average	190	42	P
7	15630.00	13.80	41.59	55.39	74.00	-18.61	Peak	190	42	P

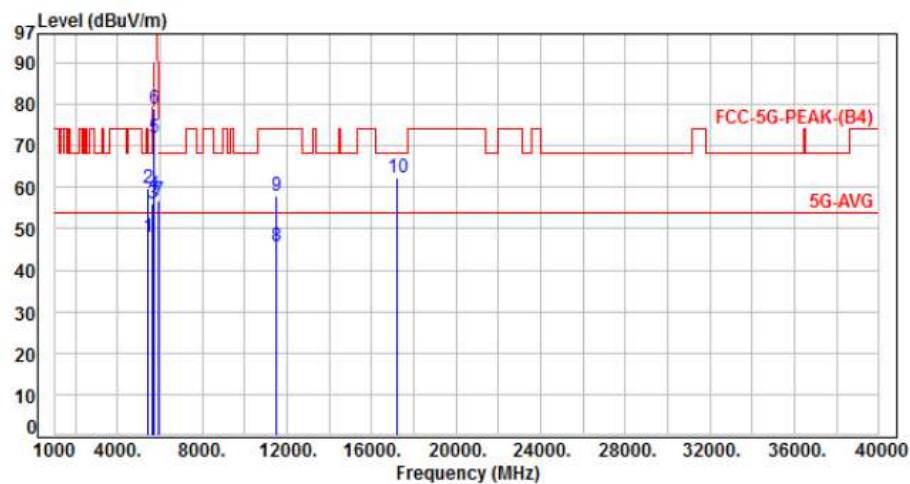
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5425.00	5.22	42.57	47.79	54.00	-6.21	Average	163	306	P
2	5425.00	5.22	54.70	59.92	74.00	-14.08	Peak	163	306	P
3	5650.00	5.25	50.67	55.92	68.20	-12.28	Peak	163	306	P
4	5700.00	5.18	53.16	58.34	105.20	-46.86	Peak	163	306	P
5	5720.00	5.19	66.69	71.88	110.80	-38.92	Peak	163	306	P
6	5725.00	5.19	73.79	78.98	122.20	-43.22	Peak	163	306	P
7	5925.00	5.60	51.34	56.94	68.20	-11.26	Peak	163	306	P
8	11490.00	13.16	32.65	45.81	54.00	-8.19	Average	194	322	P
9	11490.00	13.16	44.84	58.00	74.00	-16.00	Peak	194	322	P
10	17235.00	19.21	42.98	62.19	68.20	-6.01	Peak	100	201	P

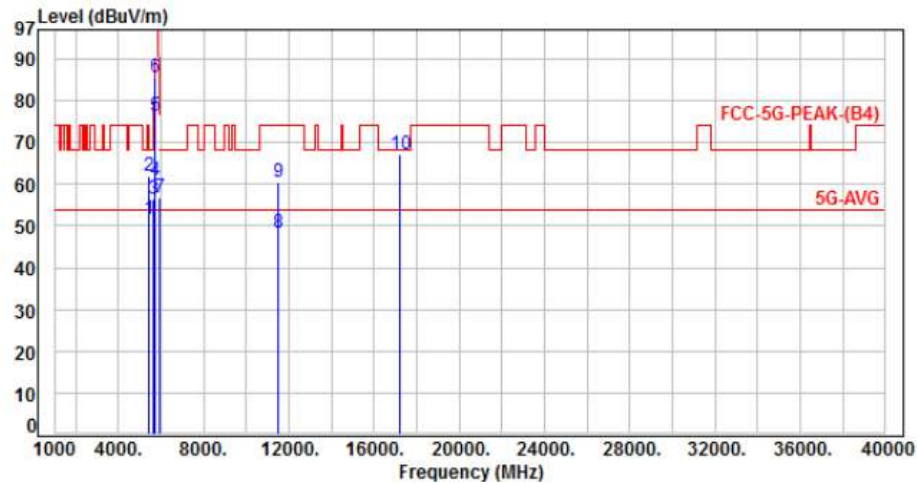
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5425.00	5.22	46.60	51.82	54.00	-2.18	Average	100	300	P
2	5425.00	5.22	56.90	62.12	74.00	-11.88	Peak	100	300	P
3	5650.00	5.25	51.16	56.41	68.20	-11.79	Peak	100	300	P
4	5700.00	5.18	55.60	60.78	105.20	-44.42	Peak	100	300	P
5	5720.00	5.19	71.19	76.38	110.80	-34.42	Peak	100	300	P
6	5725.00	5.19	80.27	85.46	122.20	-36.74	Peak	100	300	P
7	5925.00	5.60	51.19	56.79	68.20	-11.41	Peak	100	300	P
8	11490.00	13.16	35.29	48.45	54.00	-5.55	Average	100	53	P
9	11490.00	13.16	47.19	60.35	74.00	-13.65	Peak	100	53	P
10	17235.00	19.21	47.85	67.06	68.20	-1.14	Peak	201	48	P

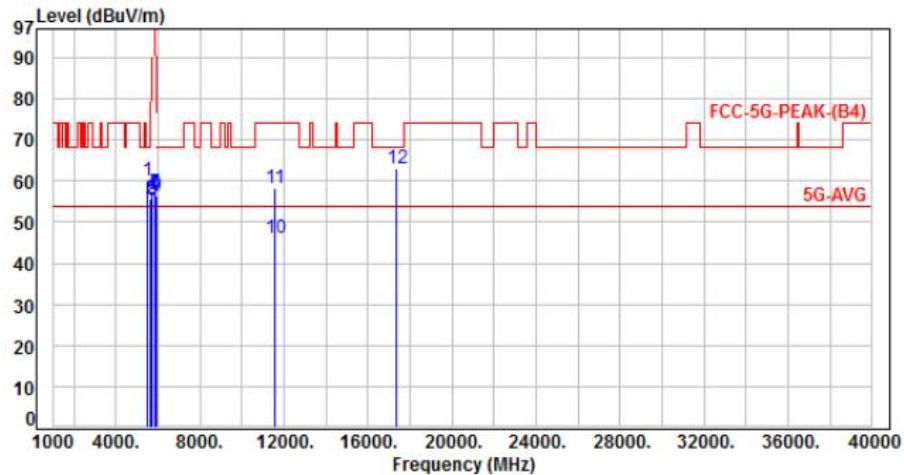
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5465.00	5.32	54.74	60.06	68.20	-8.14	Peak	164	304	P
2	5650.00	5.25	50.37	55.62	68.20	-12.58	Peak	164	304	P
3	5700.00	5.18	50.12	55.30	105.20	-49.90	Peak	164	304	P
4	5720.00	5.19	51.75	56.94	110.80	-53.86	Peak	164	304	P
5	5725.00	5.19	50.69	55.88	122.20	-66.32	Peak	164	304	P
6	5850.00	5.37	51.36	56.73	122.20	-65.47	Peak	164	304	P
7	5855.00	5.39	51.69	57.08	110.80	-53.72	Peak	164	304	P
8	5875.00	5.47	51.86	57.33	105.20	-47.87	Peak	164	304	P
9	5925.00	5.60	50.91	56.51	68.20	-11.69	Peak	164	304	P
10	11570.00	13.44	32.52	45.96	54.00	-8.04	Average	193	320	P
11	11570.00	13.44	44.66	58.10	74.00	-15.90	Peak	193	320	P
12	17355.00	19.83	43.16	62.99	68.20	-5.21	Peak	100	197	P

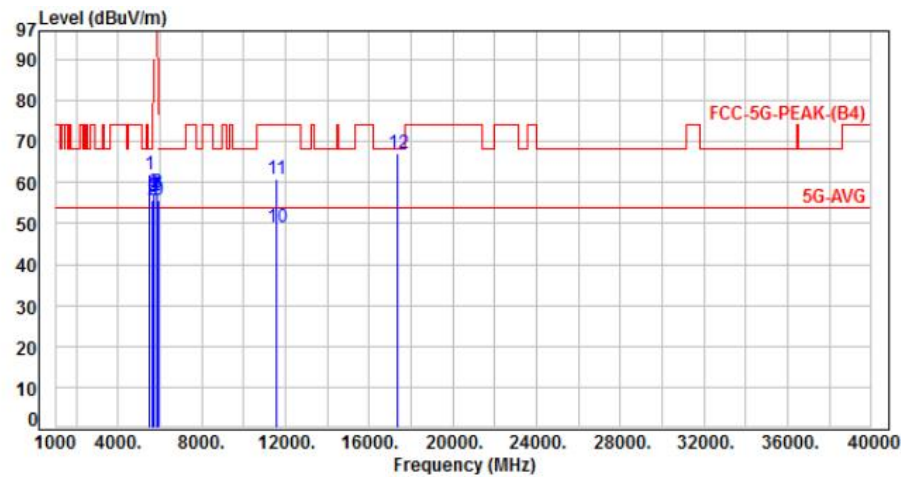
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5465.00	5.32	56.57	61.89	68.20	-6.31	Peak	100	304	P
2	5650.00	5.25	50.42	55.67	68.20	-12.53	Peak	100	304	P
3	5700.00	5.18	51.32	56.50	105.20	-48.70	Peak	100	304	P
4	5720.00	5.19	50.73	55.92	110.80	-54.88	Peak	100	304	P
5	5725.00	5.19	52.35	57.54	122.20	-64.66	Peak	100	304	P
6	5850.00	5.37	52.01	57.38	122.20	-64.82	Peak	100	304	P
7	5855.00	5.39	51.58	56.97	110.80	-53.83	Peak	100	304	P
8	5875.00	5.47	52.09	57.56	105.20	-47.64	Peak	100	304	P
9	5925.00	5.60	50.05	55.65	68.20	-12.55	Peak	100	304	P
10	11570.00	13.44	35.43	48.87	54.00	-5.13	Average	100	62	P
11	11570.00	13.44	47.35	60.79	74.00	-13.21	Peak	100	62	P
12	17355.00	19.83	47.37	67.20	68.20	-1.00	Peak	328	225	P

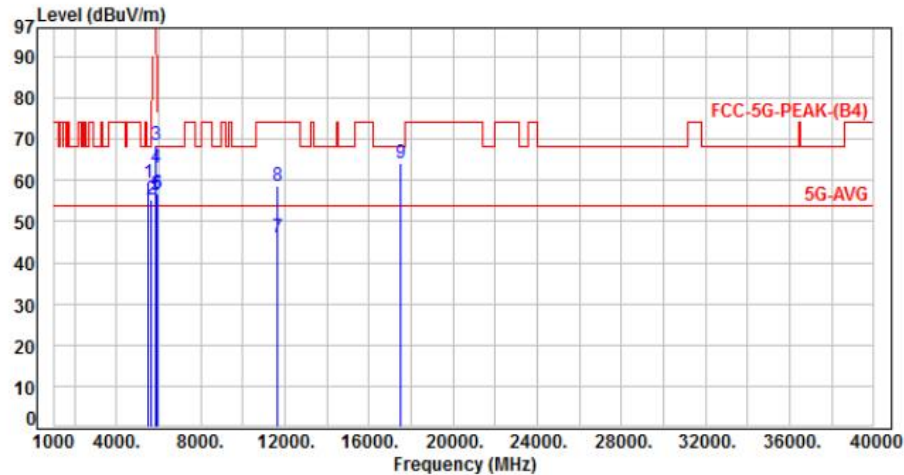
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5505.00	5.27	53.95	59.22	68.20	-8.98	Peak	160	305	P
2	5650.00	5.25	50.25	55.50	68.20	-12.70	Peak	160	305	P
3	5850.00	5.37	63.07	68.44	122.20	-53.76	Peak	160	305	P
4	5855.00	5.39	57.50	62.89	110.80	-47.91	Peak	160	305	P
5	5875.00	5.47	50.83	56.30	105.20	-48.90	Peak	160	305	P
6	5925.00	5.60	51.09	56.69	68.20	-11.51	Peak	160	305	P
7	11650.00	13.60	32.41	46.01	54.00	-7.99	Average	191	317	P
8	11650.00	13.60	44.95	58.55	74.00	-15.45	Peak	191	317	P
9	17475.00	20.67	43.39	64.06	68.20	-4.14	Peak	100	202	P

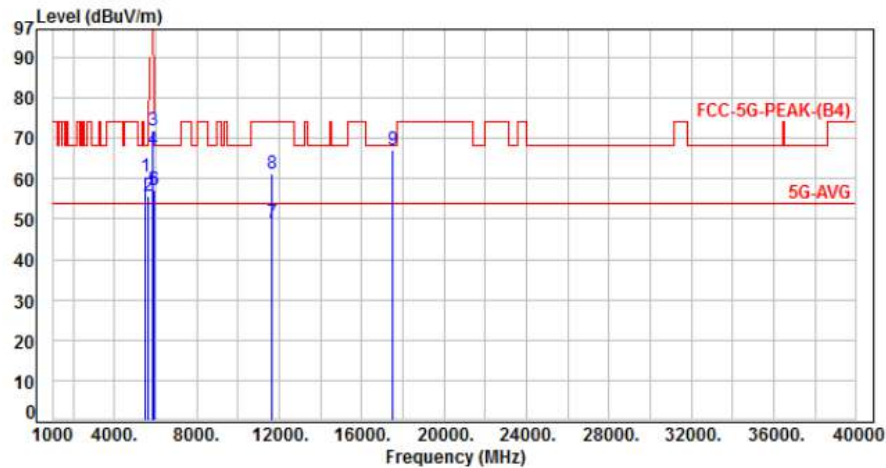
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5505.00	5.27	55.16	60.43	68.20	-7.77	Peak	100	305	P
2	5650.00	5.25	50.58	55.83	68.20	-12.37	Peak	100	305	P
3	5850.00	5.37	66.67	72.04	122.20	-50.16	Peak	100	305	P
4	5855.00	5.39	61.57	66.96	110.80	-43.84	Peak	100	305	P
5	5875.00	5.47	51.68	57.15	105.20	-48.05	Peak	100	305	P
6	5925.00	5.60	51.50	57.10	68.20	-11.10	Peak	100	305	P
7	11650.00	13.60	35.36	48.96	54.00	-5.04	Average	100	61	P
8	11650.00	13.60	47.51	61.11	74.00	-12.89	Peak	100	61	P
9	17475.00	20.67	46.52	67.19	68.20	-1.01	Peak	326	223	P

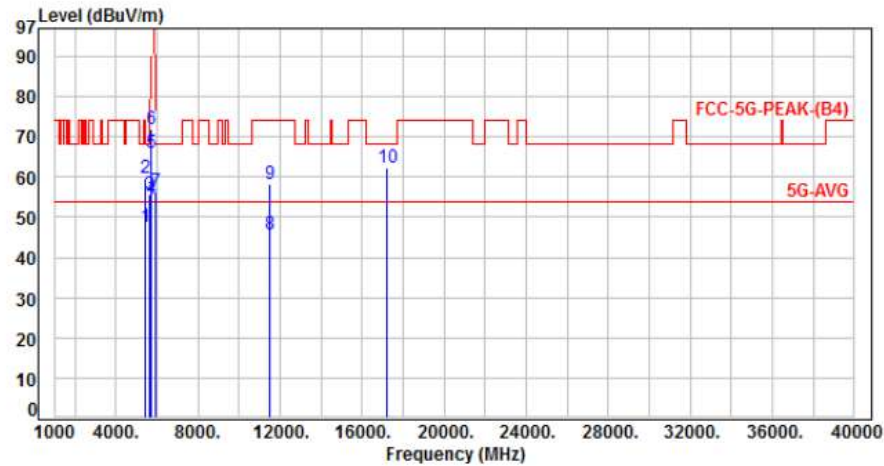
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5425.00	5.22	42.19	47.41	54.00	-6.59	Average	184	308	P
2	5425.00	5.22	54.46	59.68	74.00	-14.32	Peak	184	308	P
3	5650.00	5.25	50.38	55.63	68.20	-12.57	Peak	184	308	P
4	5700.00	5.18	49.56	54.74	105.20	-50.46	Peak	184	308	P
5	5720.00	5.19	60.92	66.11	110.80	-44.69	Peak	184	308	P
6	5725.00	5.19	66.85	72.04	122.20	-50.16	Peak	184	308	P
7	5925.00	5.60	50.81	56.41	68.20	-11.79	Peak	184	308	P
8	11490.00	13.16	32.50	45.66	54.00	-8.34	Average	193	318	P
9	11490.00	13.16	44.96	58.12	74.00	-15.88	Peak	193	318	P
10	17235.00	19.21	43.26	62.47	68.20	-5.73	Peak	100	206	P

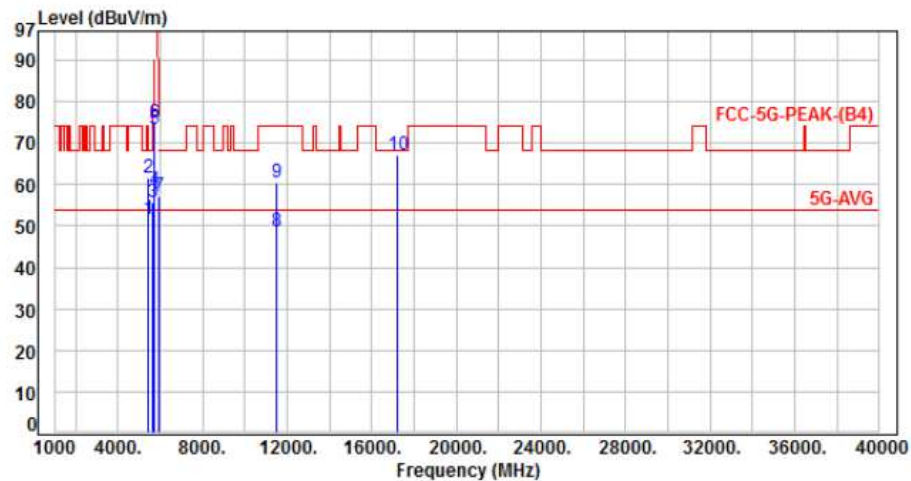
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5425.00	5.22	46.32	51.54	54.00	-2.46	Average	100	304	P
2	5425.00	5.22	56.28	61.50	74.00	-12.50	Peak	100	304	P
3	5650.00	5.25	50.48	55.73	68.20	-12.47	Peak	100	304	P
4	5700.00	5.18	53.48	58.66	105.20	-46.54	Peak	100	304	P
5	5720.00	5.19	68.33	73.52	110.80	-37.28	Peak	100	304	P
6	5725.00	5.19	69.81	75.00	122.20	-47.20	Peak	100	304	P
7	5925.00	5.60	51.74	57.34	68.20	-10.86	Peak	100	304	P
8	11490.00	13.16	35.48	48.64	54.00	-5.36	Average	100	55	P
9	11490.00	13.16	47.38	60.54	74.00	-13.46	Peak	100	55	P
10	17235.00	19.21	47.91	67.12	68.20	-1.08	Peak	327	226	P

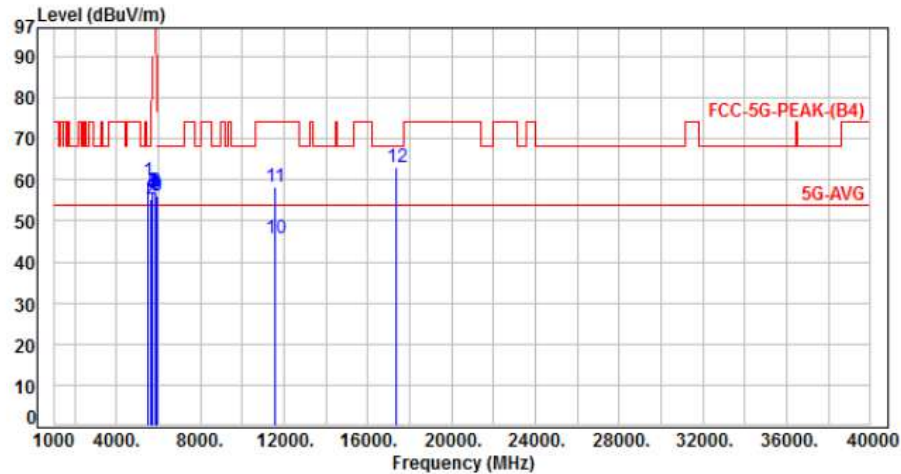
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5465.00	5.32	54.49	59.81	68.20	-8.39	Peak	165	301	P
2	5650.00	5.25	50.25	55.50	68.20	-12.70	Peak	165	301	P
3	5700.00	5.18	52.12	57.30	105.20	-47.90	Peak	165	301	P
4	5720.00	5.19	51.66	56.85	110.80	-53.95	Peak	165	301	P
5	5725.00	5.19	51.65	56.84	122.20	-65.36	Peak	165	301	P
6	5850.00	5.37	51.12	56.49	122.20	-65.71	Peak	165	301	P
7	5855.00	5.39	50.66	56.05	110.80	-54.75	Peak	165	301	P
8	5875.00	5.47	51.56	57.03	105.20	-48.17	Peak	165	301	P
9	5925.00	5.60	50.39	55.99	68.20	-12.21	Peak	165	301	P
10	11570.00	13.44	32.39	45.83	54.00	-8.17	Average	192	298	P
11	11570.00	13.44	44.85	58.29	74.00	-15.71	Peak	192	298	P
12	17355.00	19.83	43.42	63.25	68.20	-4.95	Peak	100	202	P

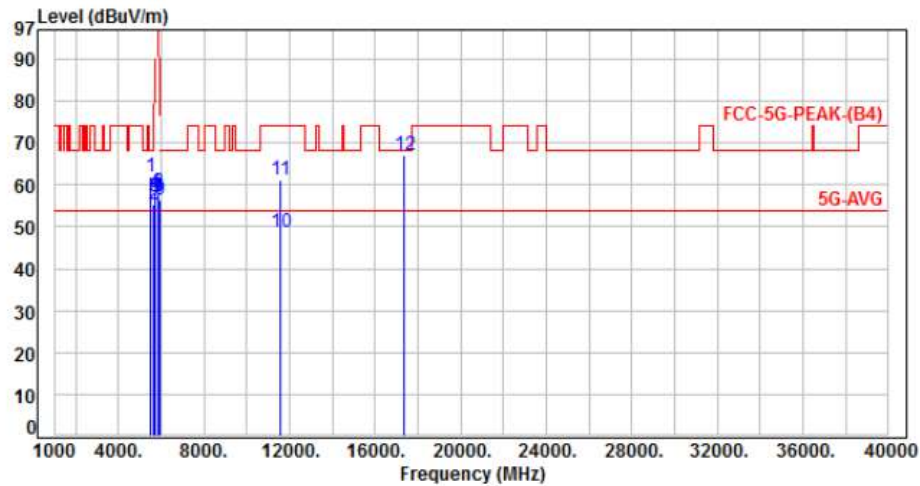
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5465.00	5.32	56.70	62.02	68.20	-6.18	Peak	100	301	P
2	5650.00	5.25	50.21	55.46	68.20	-12.74	Peak	100	301	P
3	5700.00	5.18	52.03	57.21	105.20	-47.99	Peak	100	301	P
4	5720.00	5.19	53.03	58.22	110.80	-52.58	Peak	100	301	P
5	5725.00	5.19	52.15	57.34	122.20	-64.86	Peak	100	301	P
6	5850.00	5.37	51.89	57.26	122.20	-64.94	Peak	100	301	P
7	5855.00	5.39	51.41	56.80	110.80	-54.00	Peak	100	301	P
8	5875.00	5.47	52.78	58.25	105.20	-46.95	Peak	100	301	P
9	5925.00	5.60	50.93	56.53	68.20	-11.67	Peak	100	301	P
10	11570.00	13.44	35.29	48.73	54.00	-5.27	Average	100	59	P
11	11570.00	13.44	47.66	61.10	74.00	-12.90	Peak	100	59	P
12	17355.00	19.83	47.33	67.16	68.20	-1.04	Peak	325	226	P

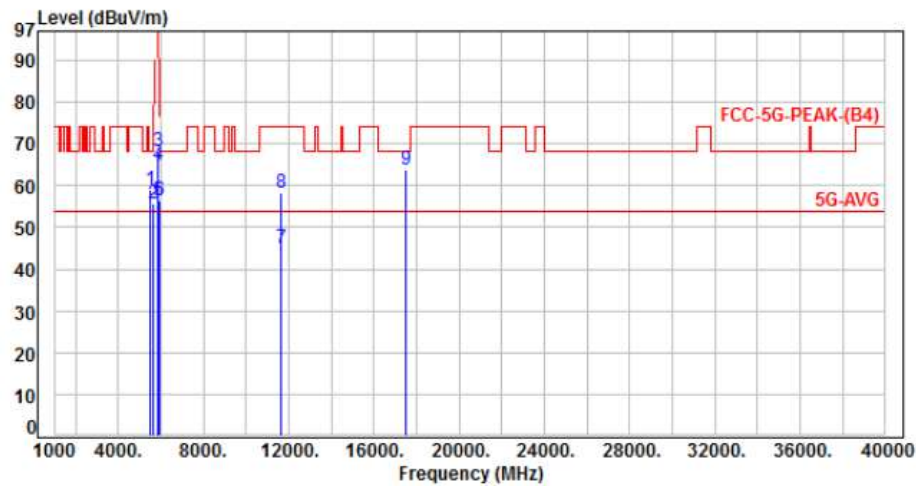
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5505.00	5.27	53.66	58.93	68.20	-9.27	Peak	162	301	P
2	5650.00	5.25	50.39	55.64	68.20	-12.56	Peak	162	301	P
3	5850.00	5.37	62.74	68.11	122.20	-54.09	Peak	162	301	P
4	5855.00	5.39	59.34	64.73	110.80	-46.07	Peak	162	301	P
5	5875.00	5.47	51.10	56.57	105.20	-48.63	Peak	162	301	P
6	5925.00	5.60	50.79	56.39	68.20	-11.81	Peak	162	301	P
7	11650.00	13.60	31.33	44.93	54.00	-9.07	Average	100	150	P
8	11650.00	13.60	44.51	58.11	74.00	-15.89	Peak	100	150	P
9	17475.00	20.67	43.22	63.89	68.20	-4.31	Peak	138	136	P

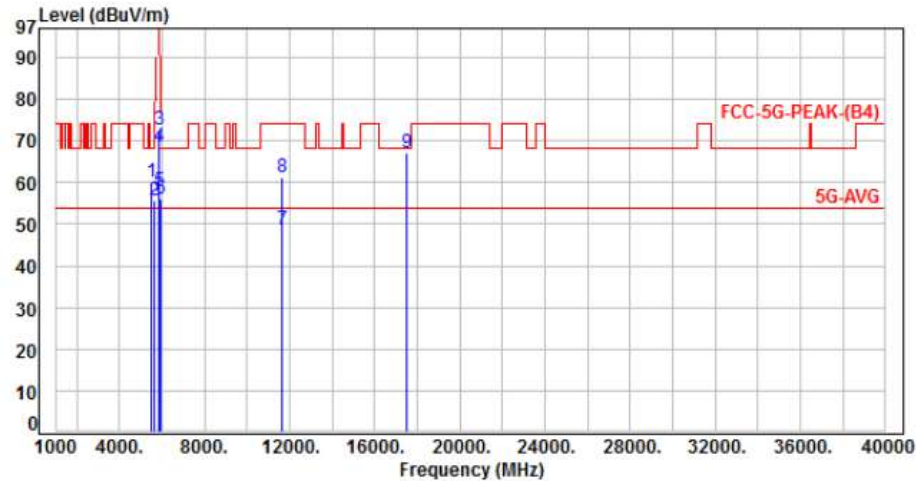
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5505.00	5.27	54.96	60.23	68.20	-7.97	Peak	100	303	P
2	5650.00	5.25	50.42	55.67	68.20	-12.53	Peak	100	303	P
3	5850.00	5.37	67.15	72.52	122.20	-49.68	Peak	100	303	P
4	5855.00	5.39	63.19	68.58	110.80	-42.22	Peak	100	303	P
5	5875.00	5.47	52.33	57.80	105.20	-47.40	Peak	100	303	P
6	5925.00	5.60	50.63	56.23	68.20	-11.97	Peak	100	303	P
7	11650.00	13.60	35.22	48.82	54.00	-5.18	Average	100	64	P
8	11650.00	13.60	47.72	61.32	74.00	-12.68	Peak	100	64	P
9	17475.00	20.67	46.45	67.12	68.20	-1.08	Peak	322	223	P

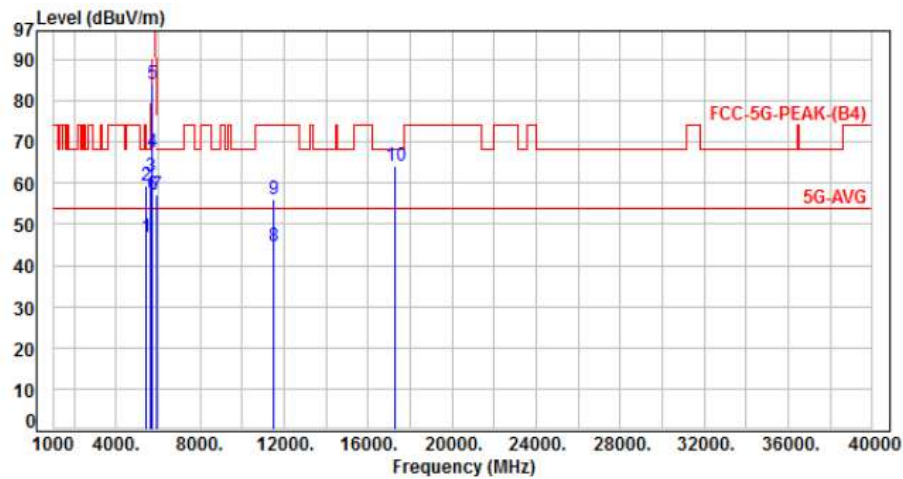
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5435.00	5.27	41.59	46.86	54.00	-7.14	Average	162	310	P
2	5435.00	5.27	54.24	59.51	74.00	-14.49	Peak	162	310	P
3	5650.00	5.25	56.24	61.49	68.20	-6.71	Peak	162	310	P
4	5700.00	5.18	62.18	67.36	105.20	-37.84	Peak	162	310	P
5	5720.00	5.19	78.90	84.09	110.80	-26.71	Peak	162	310	P
6	5725.00	5.19	51.81	57.00	122.20	-65.20	Peak	162	310	P
7	5925.00	5.60	51.75	57.35	68.20	-10.85	Peak	162	310	P
8	11510.00	13.20	31.27	44.47	54.00	-9.53	Average	196	318	P
9	11510.00	13.20	42.96	56.16	74.00	-17.84	Peak	196	318	P
10	17265.00	19.34	44.70	64.04	68.20	-4.16	Peak	100	208	P

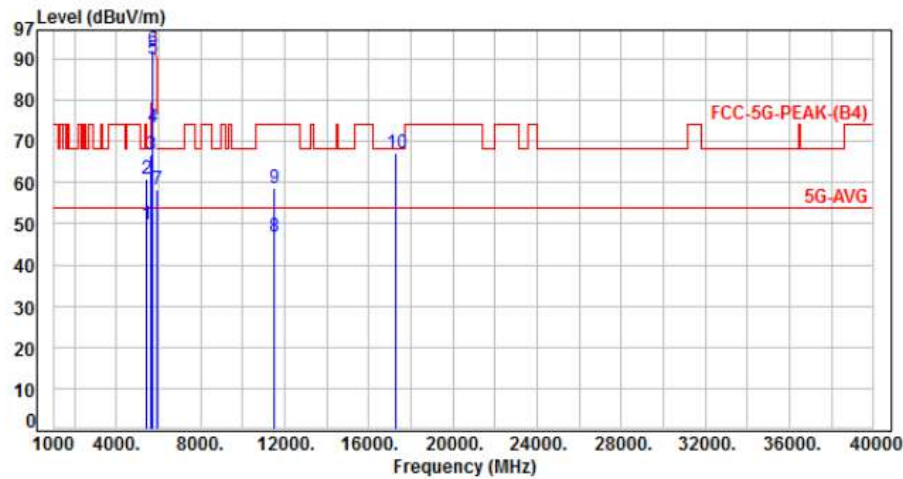
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5435.00	5.27	44.50	49.77	54.00	-4.23	Average	133	298	P
2	5435.00	5.27	55.60	60.87	74.00	-13.13	Peak	133	298	P
3	5650.00	5.25	61.50	66.75	68.20	-1.45	Peak	133	298	P
4	5700.00	5.18	68.30	73.48	105.20	-31.72	Peak	133	298	P
5	5720.00	5.19	84.89	90.08	110.80	-20.72	Peak	133	298	P
6	5725.00	5.19	87.13	92.32	122.20	-29.88	Peak	133	298	P
7	5925.00	5.60	52.51	58.11	68.20	-10.09	Peak	133	298	P
8	11510.00	13.20	33.61	46.81	54.00	-7.19	Average	100	52	P
9	11510.00	13.20	45.46	58.66	74.00	-15.34	Peak	100	52	P
10	17265.00	19.34	47.80	67.14	68.20	-1.06	Peak	318	225	P

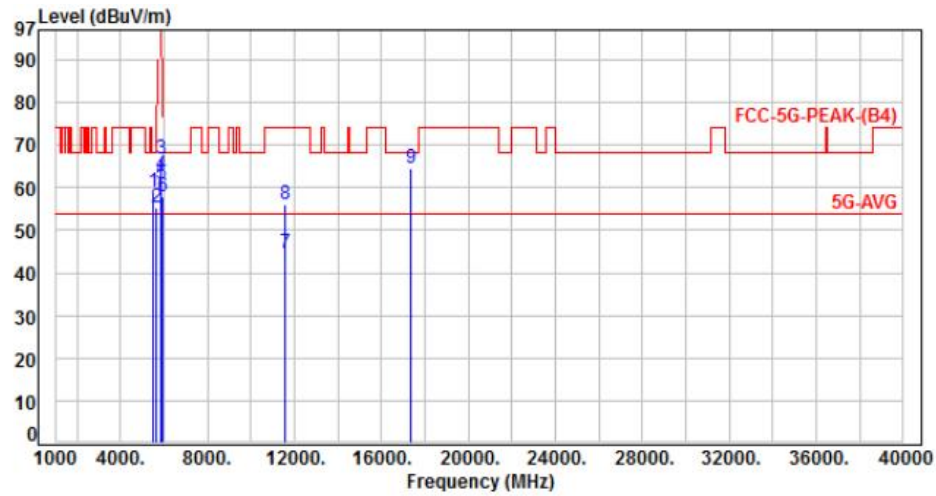
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5475.00	5.30	53.80	59.10	68.20	-9.10	Peak	164	295	P
2	5650.00	5.25	50.06	55.31	68.20	-12.89	Peak	164	295	P
3	5850.00	5.37	61.52	66.89	122.20	-55.31	Peak	164	295	P
4	5855.00	5.39	57.72	63.11	110.80	-47.69	Peak	164	295	P
5	5875.00	5.47	55.39	60.86	105.20	-44.34	Peak	164	295	P
6	5925.00	5.60	52.23	57.83	68.20	-10.37	Peak	164	295	P
7	11590.00	13.52	31.06	44.58	54.00	-9.42	Average	194	318	P
8	11590.00	13.52	42.55	56.07	74.00	-17.93	Peak	194	318	P
9	17385.00	20.03	44.51	64.54	68.20	-3.66	Peak	100	210	P

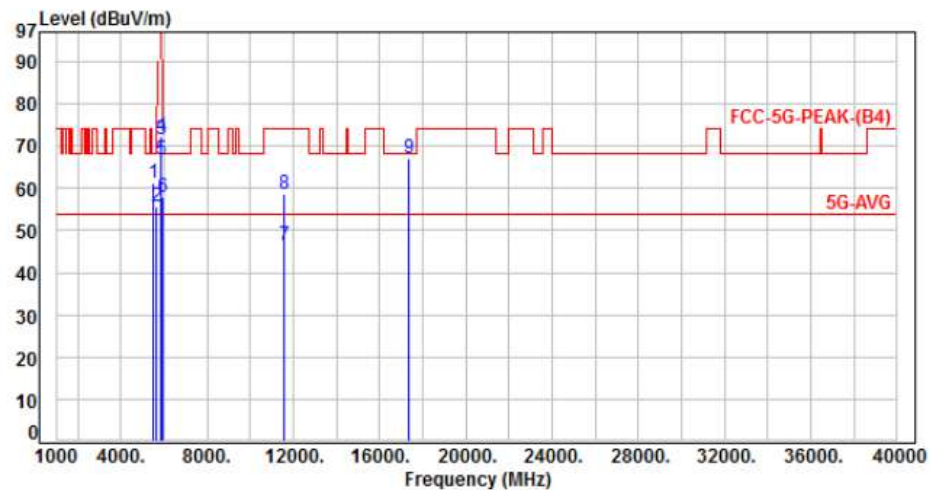
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5475.00	5.30	55.85	61.15	68.20	-7.05	Peak	110	299	P
2	5650.00	5.25	50.33	55.58	68.20	-12.62	Peak	110	299	P
3	5850.00	5.37	66.07	71.44	122.20	-50.76	Peak	110	299	P
4	5855.00	5.39	66.80	72.19	110.80	-38.61	Peak	110	299	P
5	5875.00	5.47	61.34	66.81	105.20	-38.39	Peak	110	299	P
6	5925.00	5.60	52.27	57.87	68.20	-10.33	Peak	110	299	P
7	11590.00	13.52	33.05	46.57	54.00	-7.43	Average	100	55	P
8	11590.00	13.52	45.16	58.68	74.00	-15.32	Peak	100	55	P
9	17385.00	20.03	47.15	67.18	68.20	-1.02	Peak	320	217	P

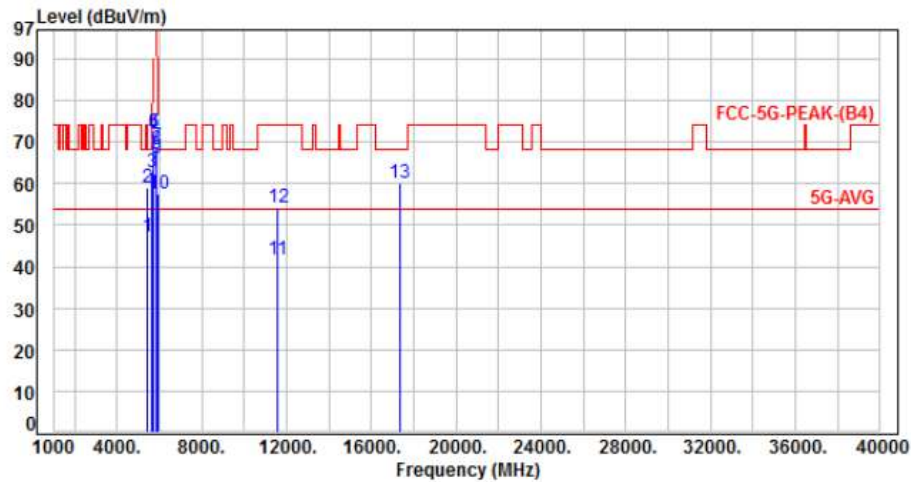
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5455.00	5.33	41.80	47.13	54.00	-6.87	Average	198	302	P
2	5455.00	5.33	53.52	58.85	74.00	-15.15	Peak	198	302	P
3	5650.00	5.25	57.37	62.62	68.20	-5.58	Peak	198	302	P
4	5700.00	5.18	66.91	72.09	105.20	-33.11	Peak	198	302	P
5	5720.00	5.19	67.13	72.32	110.80	-38.48	Peak	198	302	P
6	5725.00	5.19	67.21	72.40	122.20	-49.80	Peak	198	302	P
7	5850.00	5.37	63.45	68.82	122.20	-53.38	Peak	198	302	P
8	5855.00	5.39	62.93	68.32	110.80	-42.48	Peak	198	302	P
9	5875.00	5.47	60.58	66.05	105.20	-39.15	Peak	198	302	P
10	5925.00	5.60	51.86	57.46	68.20	-10.74	Peak	198	302	P
11	11550.00	13.36	28.45	41.81	54.00	-12.19	Average	195	315	P
12	11550.00	13.36	40.71	54.07	74.00	-19.93	Peak	195	315	P
13	17325.00	19.64	40.37	60.01	68.20	-8.19	Peak	100	205	P

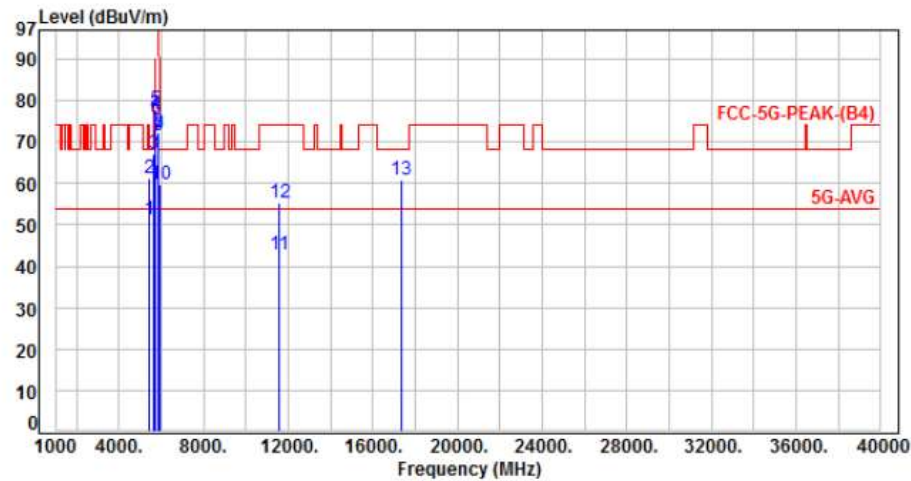
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5455.00	5.33	45.90	51.23	54.00	-2.77	Average	169	299	P
2	5455.00	5.33	55.88	61.21	74.00	-12.79	Peak	169	299	P
3	5650.00	5.25	61.78	67.03	68.20	-1.17	Peak	169	299	P
4	5700.00	5.18	71.45	76.63	105.20	-28.57	Peak	169	299	P
5	5720.00	5.19	72.66	77.85	110.80	-32.95	Peak	169	299	P
6	5725.00	5.19	70.53	75.72	122.20	-46.48	Peak	169	299	P
7	5850.00	5.37	66.33	71.70	122.20	-50.50	Peak	169	299	P
8	5855.00	5.39	67.07	72.46	110.80	-38.34	Peak	169	299	P
9	5875.00	5.47	66.06	71.53	105.20	-33.67	Peak	169	299	P
10	5925.00	5.60	54.24	59.84	68.20	-8.36	Peak	169	299	P
11	11550.00	13.36	29.25	42.61	54.00	-11.39	Average	100	55	P
12	11550.00	13.36	42.14	55.50	74.00	-18.50	Peak	100	55	P
13	17325.00	19.64	41.31	60.95	68.20	-7.25	Peak	169	299	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.7. Restricted Bands of Operation

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

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

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



7. On Time, Duty Cycle and Measurement methods

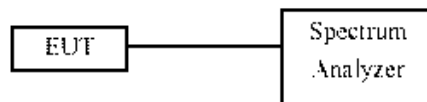
7.1. Test Limit

None; for reporting purposes only.

7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.3. Test Setup Layout



7.4. Test Result and Data

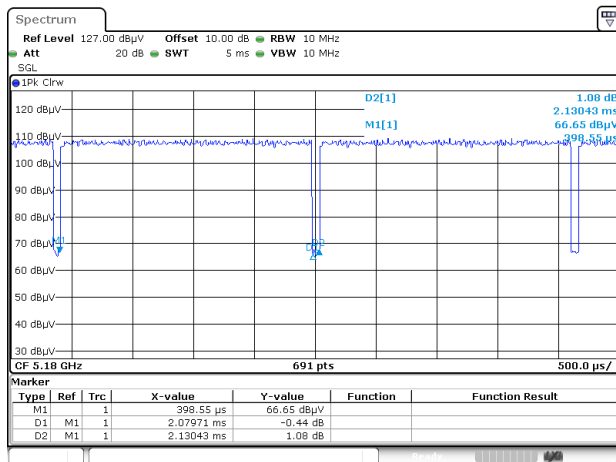
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11a,6M	2.08	2.13	97.62%
802.11ac VHT20	5.06	5.10	99.32%
802.11ac VHT40	2.45	2.50	97.92%
802.11ac VHT80	1.16	1.22	95.36%

7.5. Measurement Methods

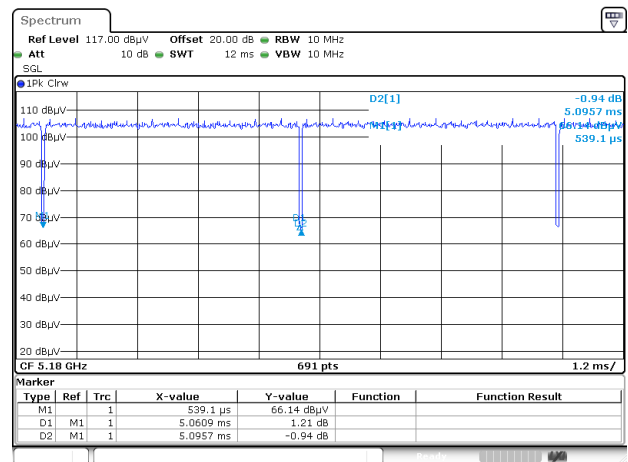
26 dB and 6dB Emission BW	KDB 789033 D02 v02r01, Section C
99% Occupied BW	KDB 789033 D02 v02r01, Section D
Conducted Output Power	KDB 789033 D02 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02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



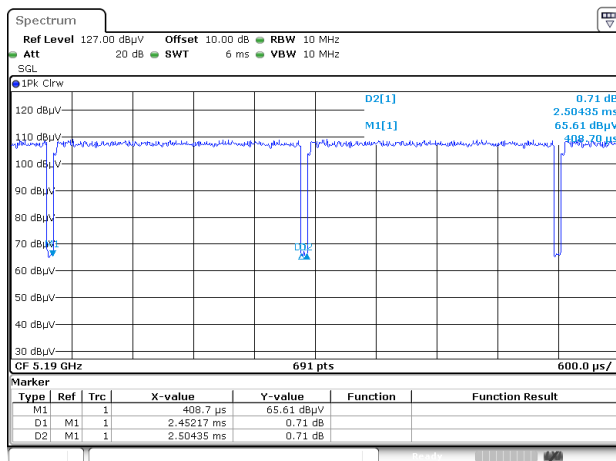
Modulation Type: 802.11a (6Mbps)



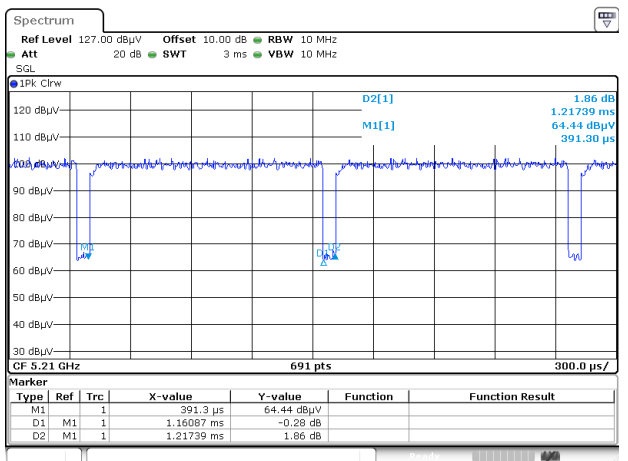
Modulation Type: 802.11ac VHT20 (6.5Mbps)



Modulation Type: 802.11ac VHT40 (13.5Mbps)



Modulation Type: 802.11ac VHT80 (29.3Mbps)





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

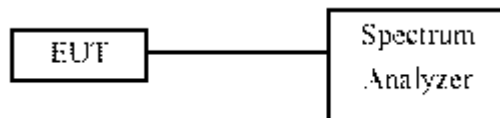
FCC §15.407

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

8.2. Test Procedure

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

8.3. Test Setup Layout



8.4. Test Result and Data (6dB Bandwidth)

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth(MHz)		Minimum Limit (MHz)
			ANT A	ANT B	
11a	149	5745	16.05	16.10	0.50
11a	157	5785	16.30	16.30	0.50
11a	165	5825	16.30	16.30	0.50
11ac VHT20	149	5745	17.25	17.55	0.50
11ac VHT20	157	5785	17.55	16.55	0.50
11ac VHT20	165	5825	16.55	16.55	0.50
11ac VHT40	151	5755	33.80	31.30	0.50
11ac VHT40	159	5795	35.80	35.00	0.50
11ac VHT80	155	5775	75.68	75.84	0.50

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

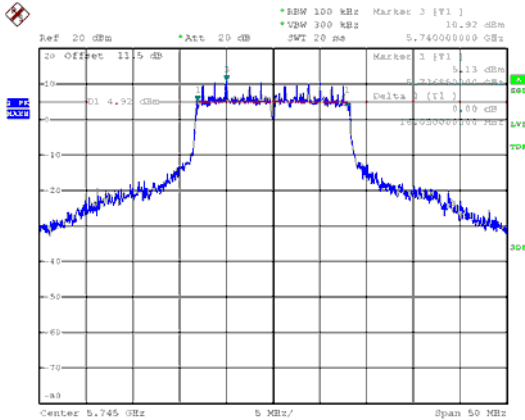
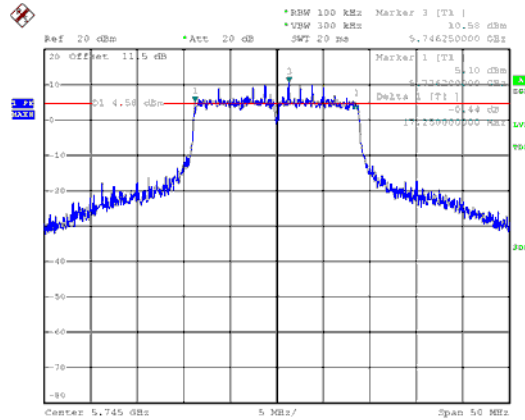
In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	149	5745	16.80	16.50
11a	157	5785	17.30	16.55
11a	165	5825	16.80	16.55
11ac VHT20	149	5745	17.95	17.70
11ac VHT20	157	5785	18.00	17.70
11ac VHT20	165	5825	17.75	17.70
11ac VHT40	151	5755	42.90	44.40
11ac VHT40	159	5795	37.10	38.90
11ac VHT80	155	5775	76.16	75.84

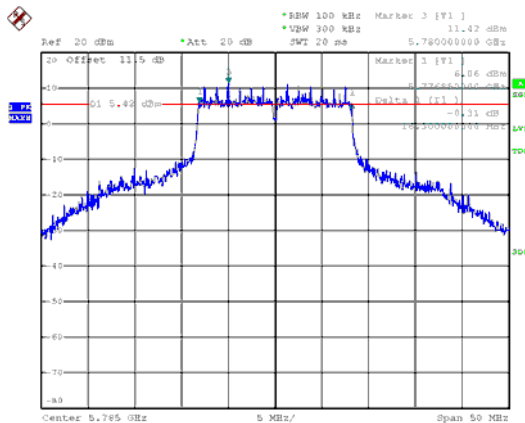


6dB Bandwidth

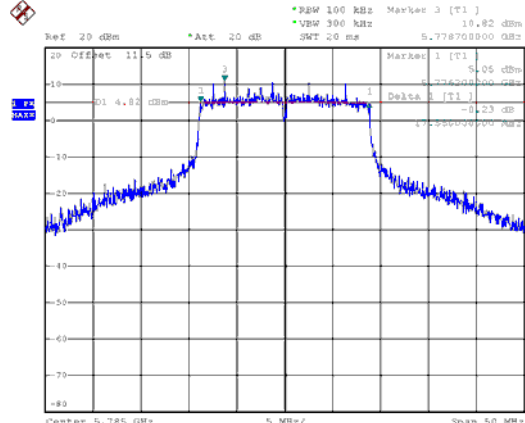
ANT A

Modulation Type: 802.11a (6Mbps)
CH149Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149

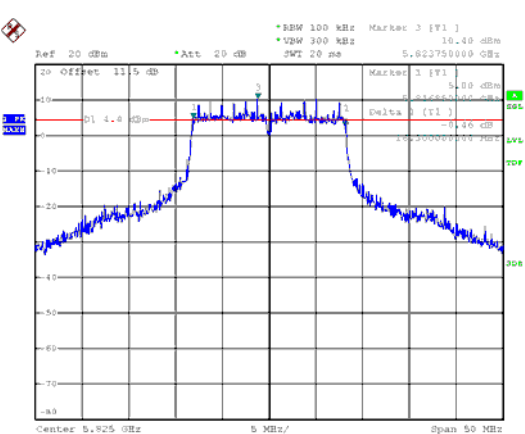
CH157



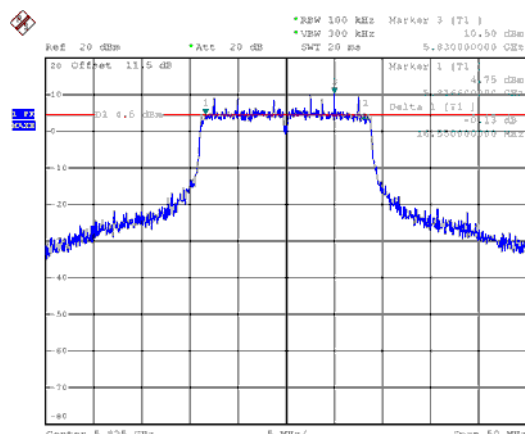
CH157



CH165

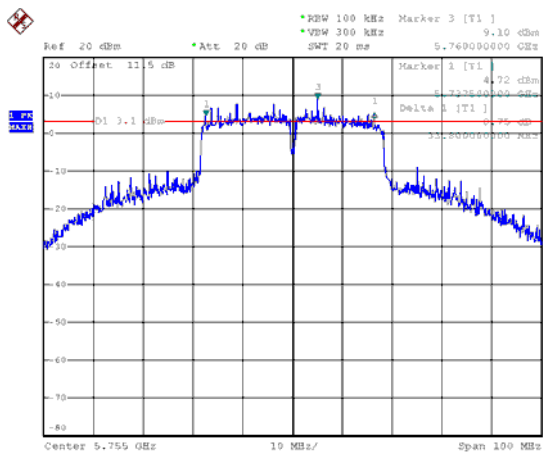


CH165

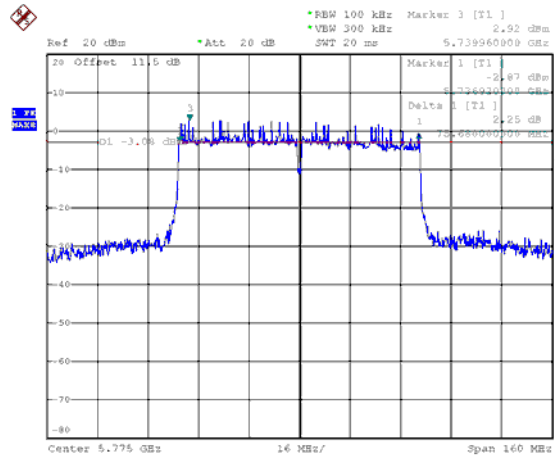




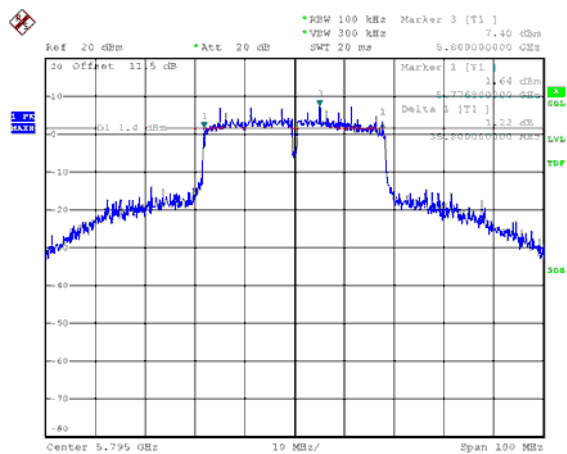
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



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

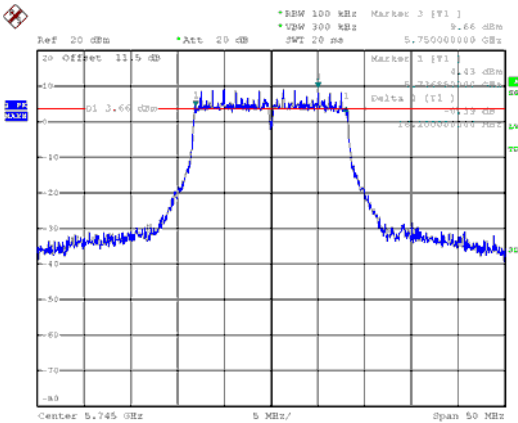


CH159

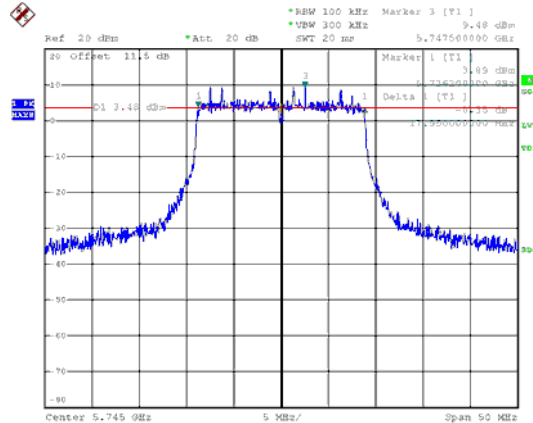




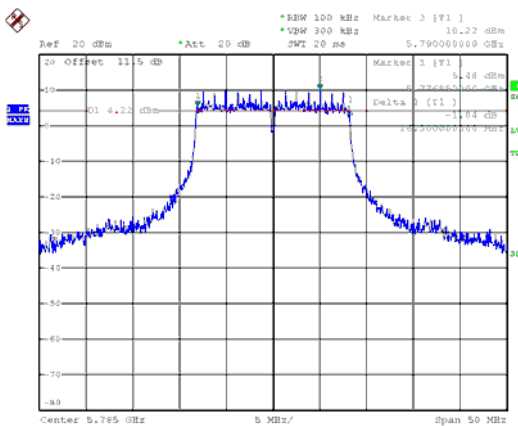
ANT B
Modulation Type: 802.11a (6Mbps)
CH149



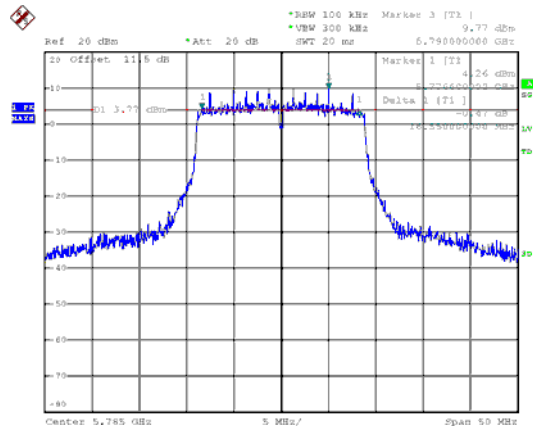
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



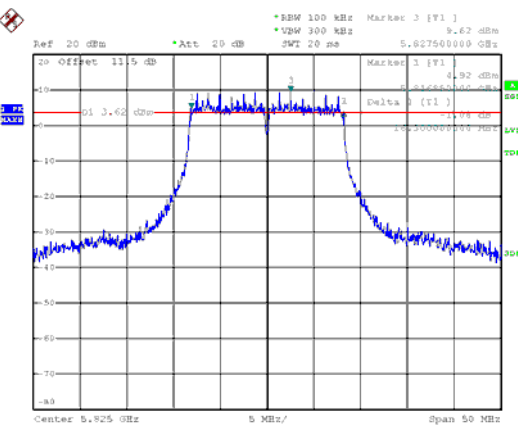
CH157



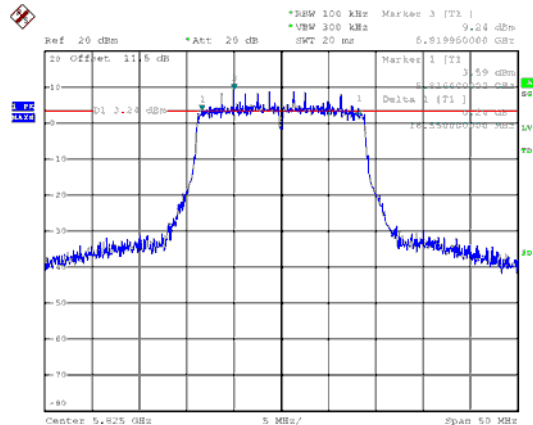
CH157



CH165

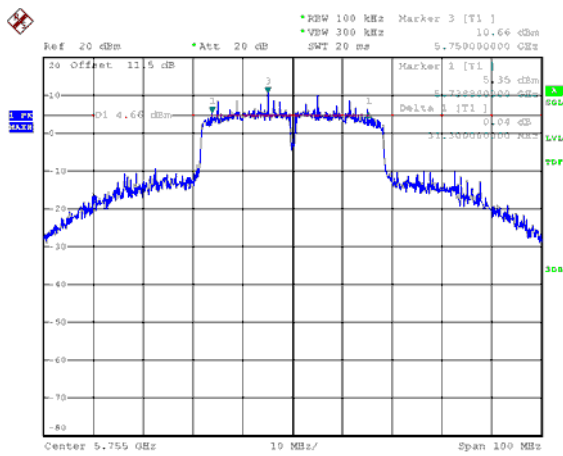


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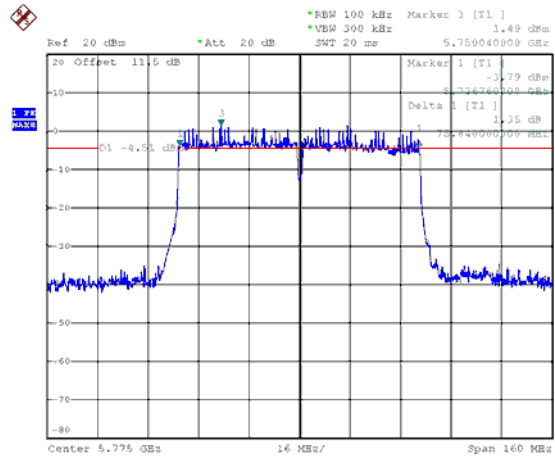




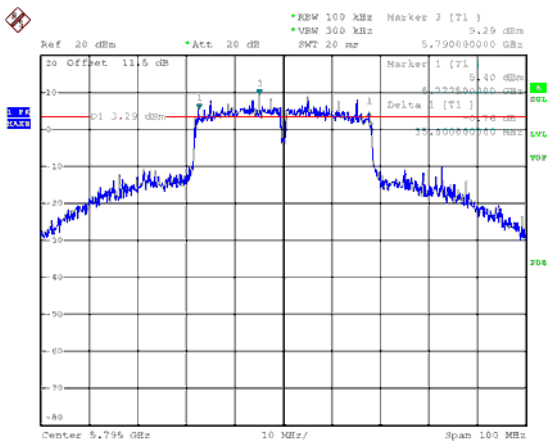
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



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



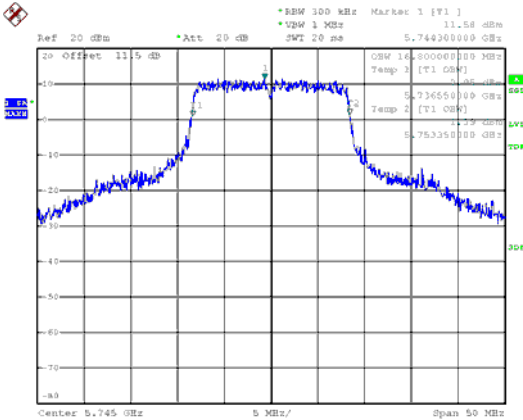
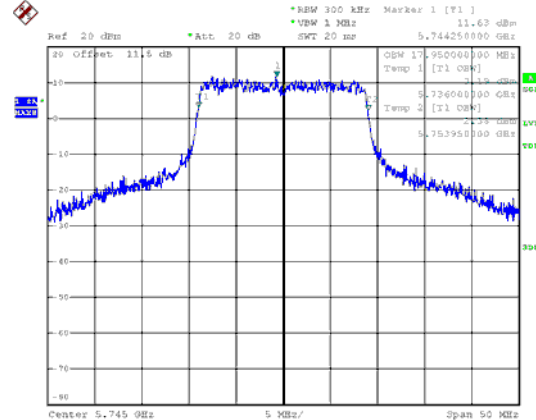
CH159



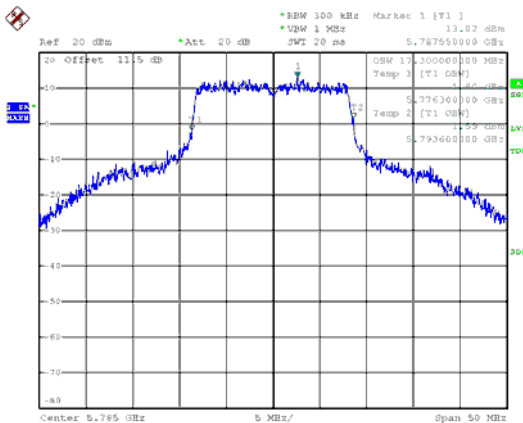


99% Occupied Bandwidth

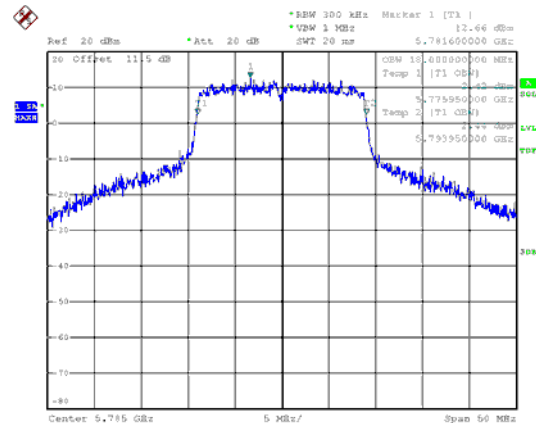
ANT A

Modulation Type: 802.11a (6Mbps)
CH149Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149

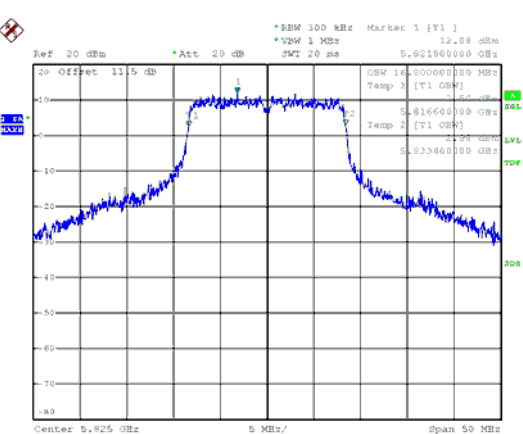
CH157



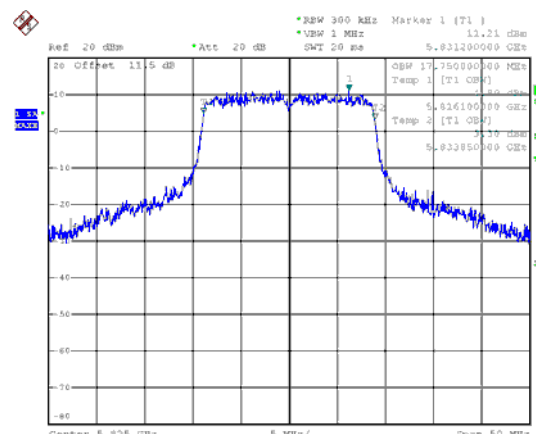
CH157



CH165

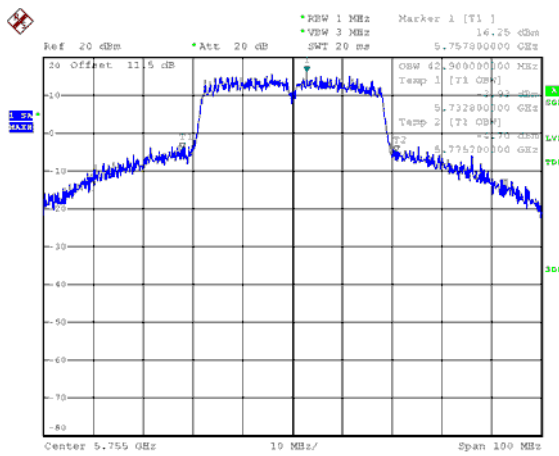


CH165

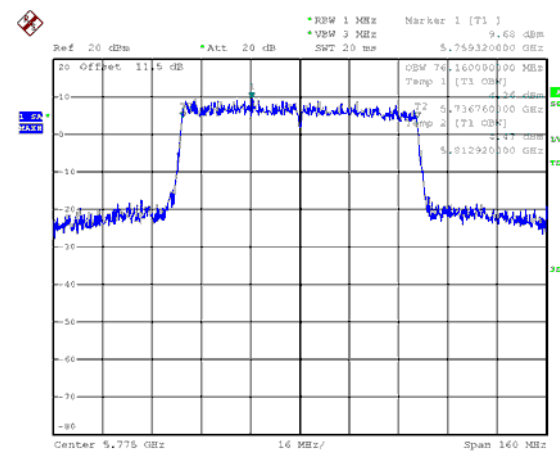




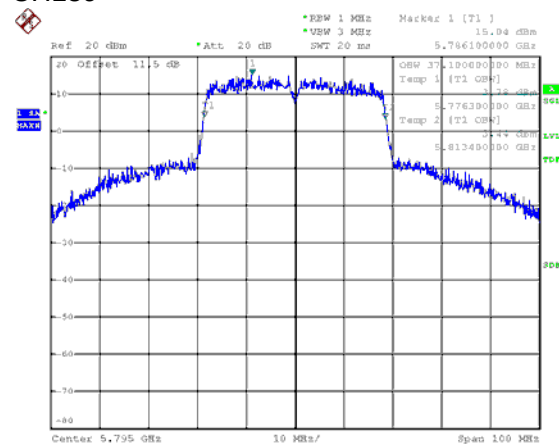
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



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



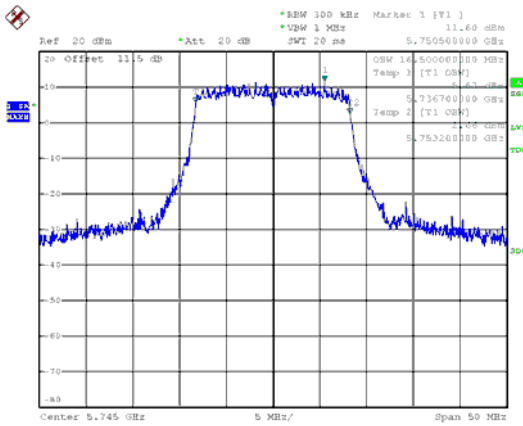
CH159



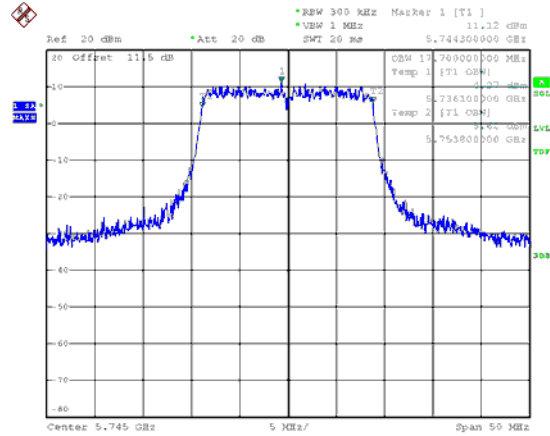


ANT B

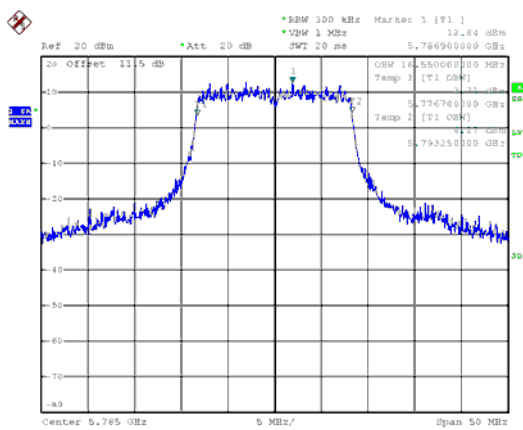
Modulation Type: 802.11a (6Mbps)
CH149



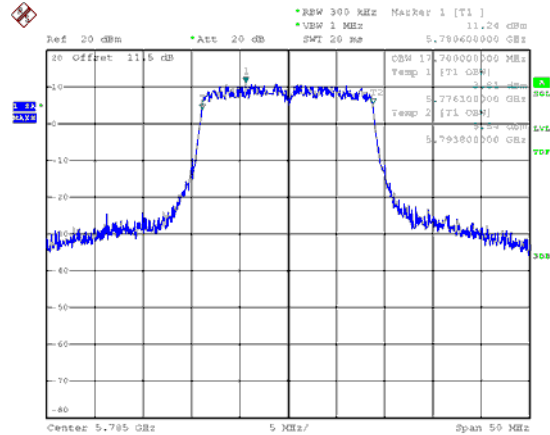
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



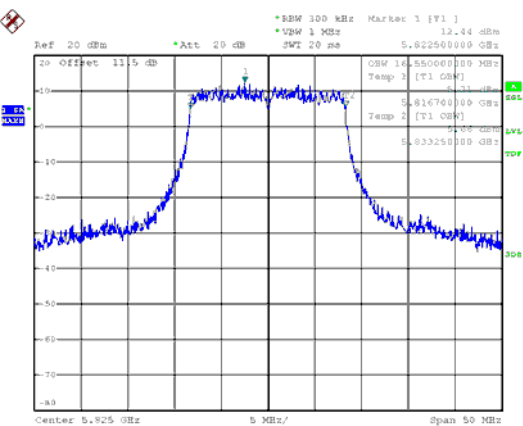
CH157



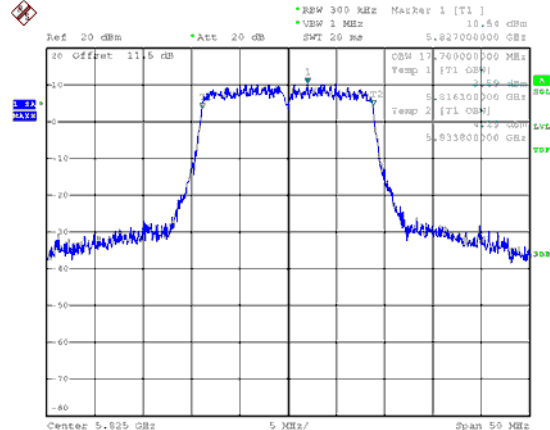
CH157



CH165

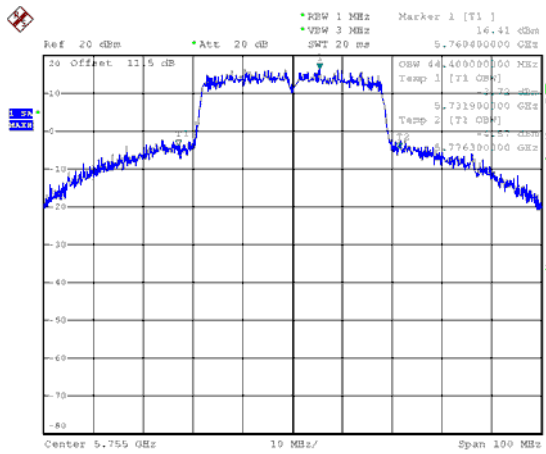


CH165

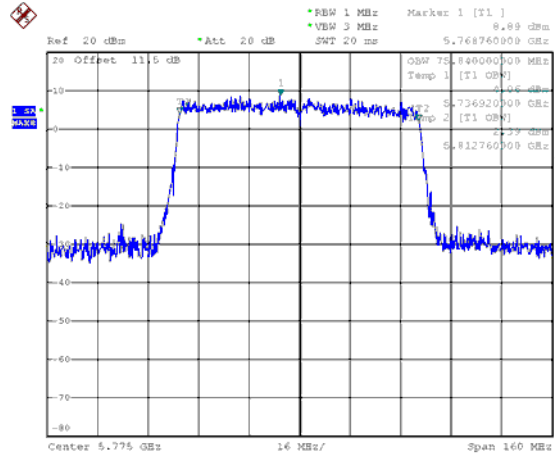




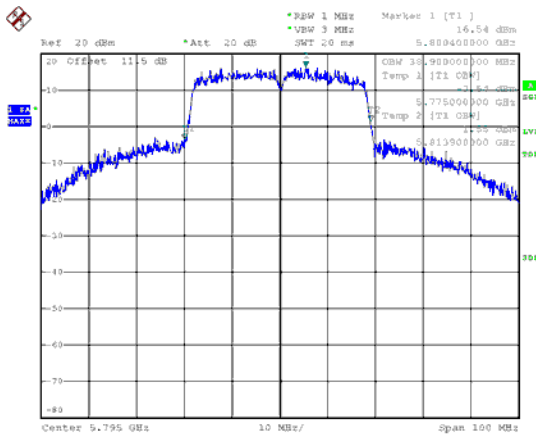
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



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



CH159





9. 26dB Bandwidth & 99% Occupied Bandwidth

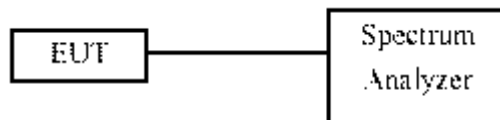
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

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

9.3. Test Setup Layout



9.4. Test Result and Data (26dB Bandwidth)

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11a	36	5180	19.65	19.50
11a	40	5200	21.05	22.65
11a	48	5240	22.30	22.15
11ac VHT20	36	5180	20.65	20.60
11ac VHT20	40	5200	24.25	29.30
11ac VHT20	48	5240	23.50	24.10
11ac VHT40	38	5190	40.80	40.80
11ac VHT40	46	5230	41.90	43.80
11ac VHT80	42	5210	83.36	83.84

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

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11a	36	5180	16.55	16.55
11a	40	5200	16.70	16.85
11a	48	5240	16.65	16.65
11ac VHT20	36	5180	17.75	17.75
11ac VHT20	40	5200	17.95	18.45
11ac VHT20	48	5240	17.85	17.90
11ac VHT40	38	5190	36.10	36.20
11ac VHT40	46	5230	36.50	36.60
11ac VHT80	42	5210	75.84	75.84

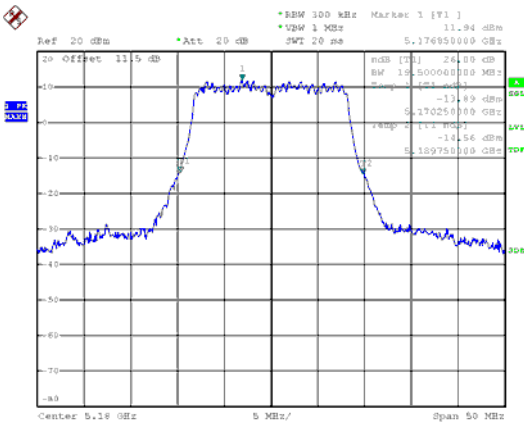




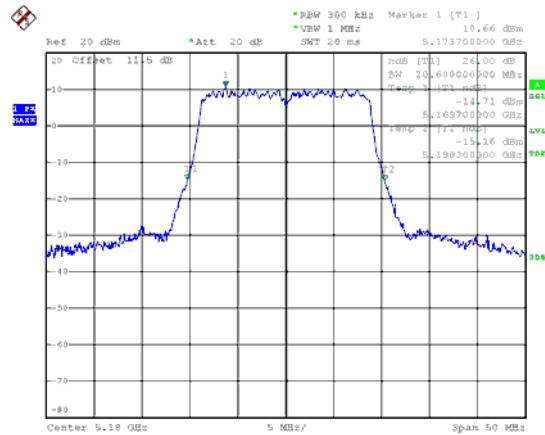


ANT B

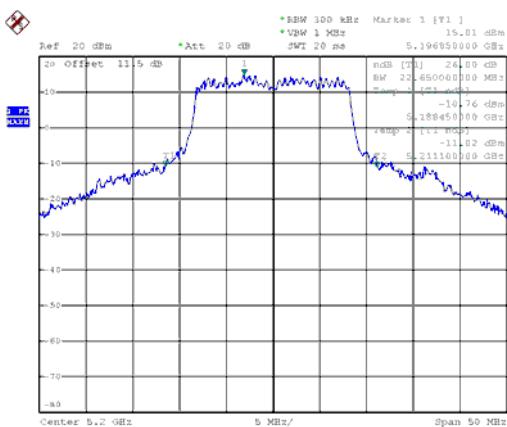
Modulation Type: 802.11a (6Mbps)
CH36



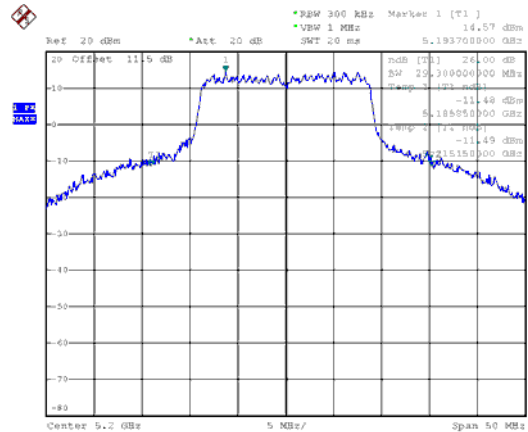
802.11ac VHT20 (6.5Mbps)
CH36



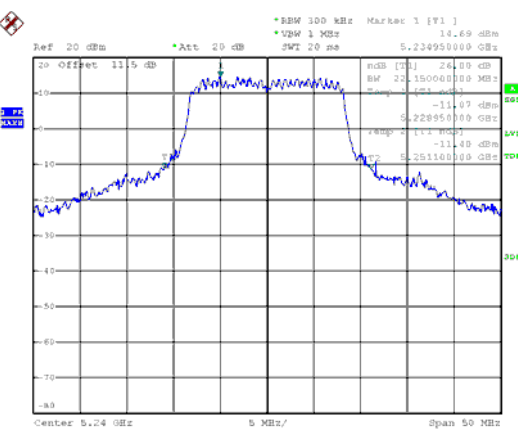
CH40



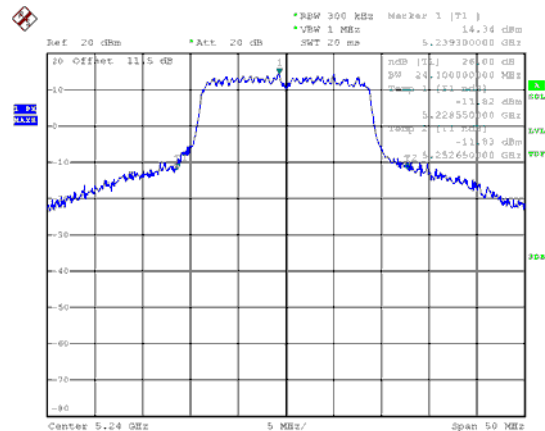
CH40

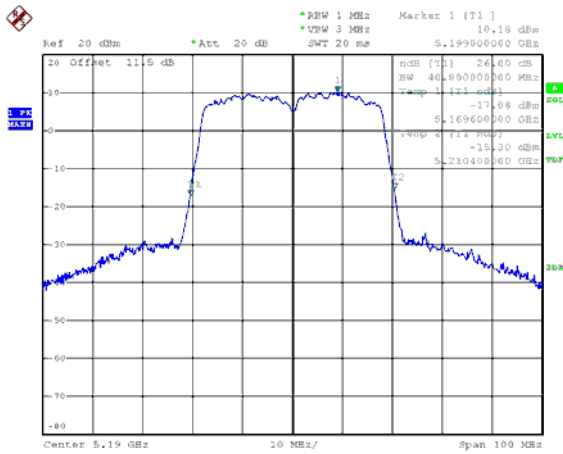
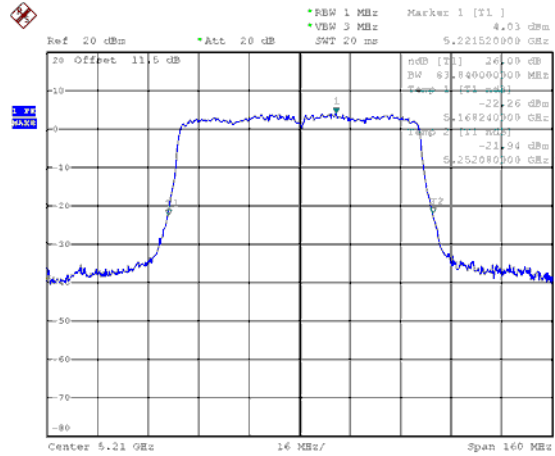


CH48

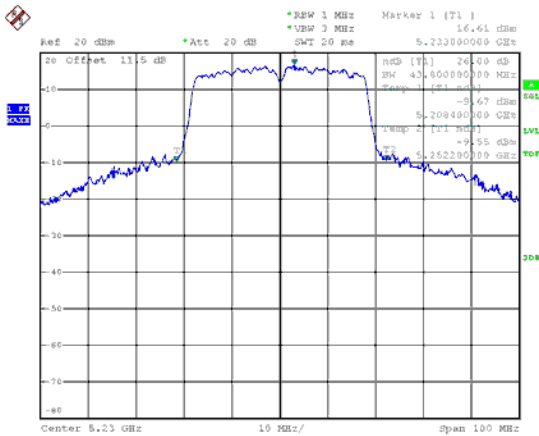


CH48



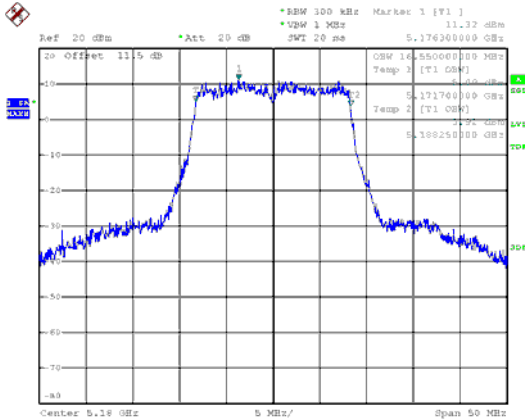
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

CH46

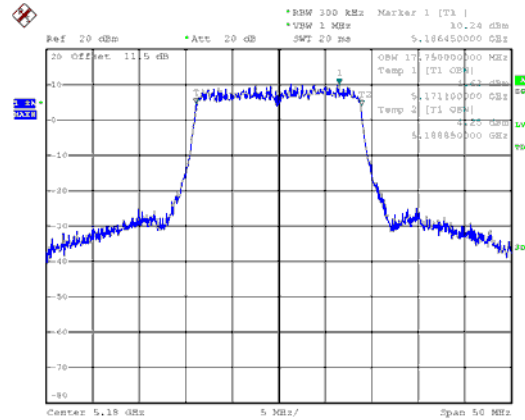




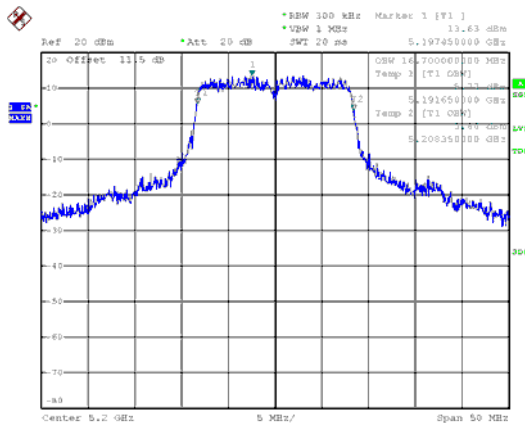
99% Occupied Bandwidth
ANT A
Modulation Type: 802.11a (6Mbps)
CH36



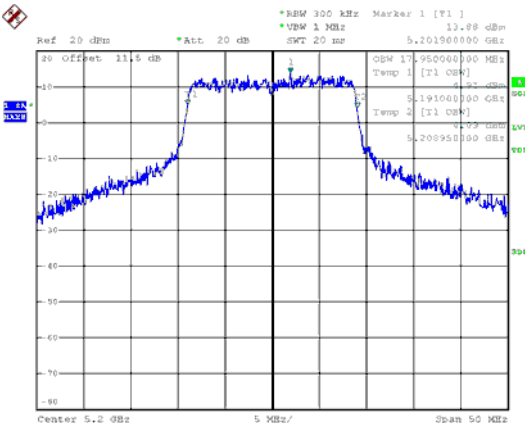
802.11ac VHT20 (6.5Mbps)
CH36



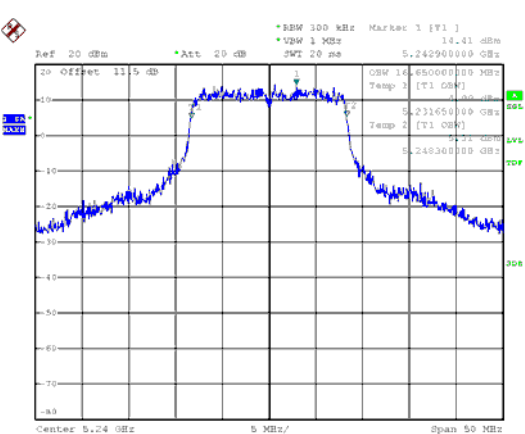
CH40



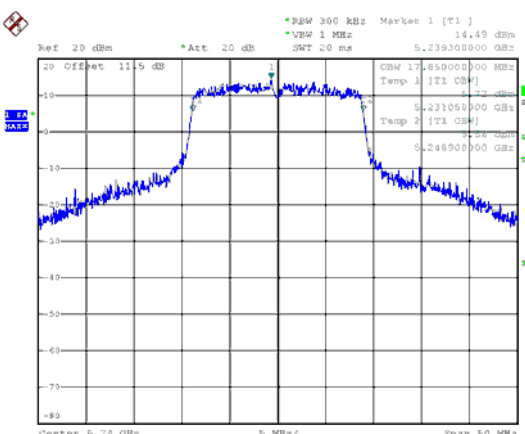
CH40



CH48

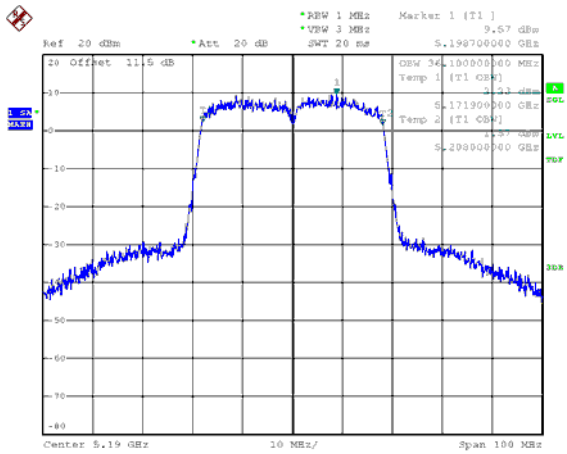


CH48

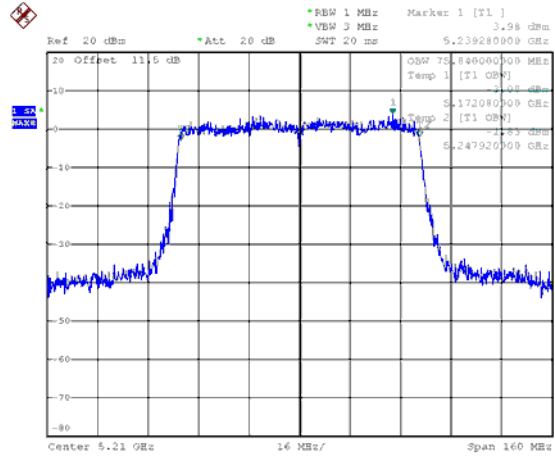




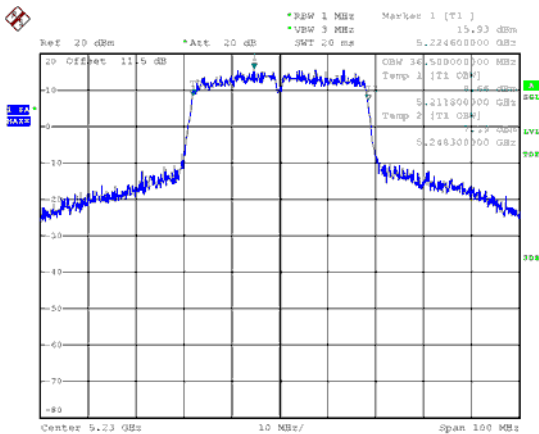
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



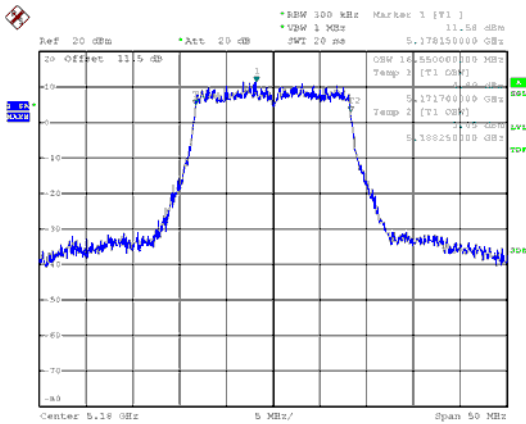
CH46



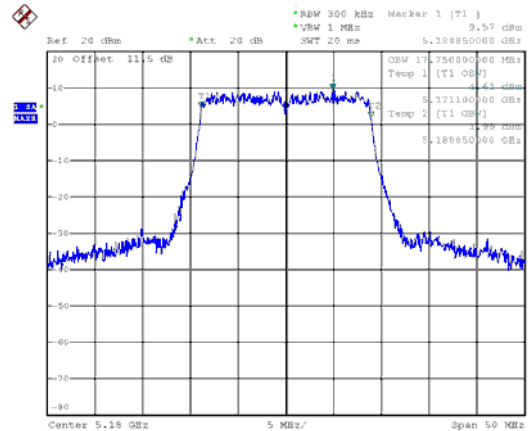


ANT B

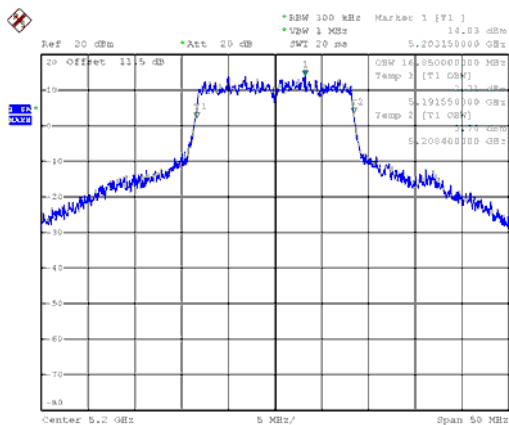
Modulation Type: 802.11a (6Mbps)
CH36



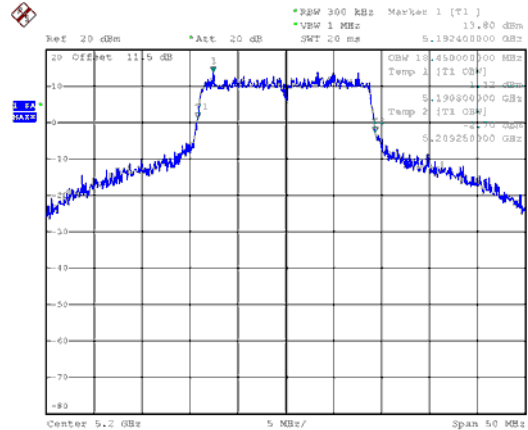
802.11ac VHT20 (6.5Mbps)
CH36



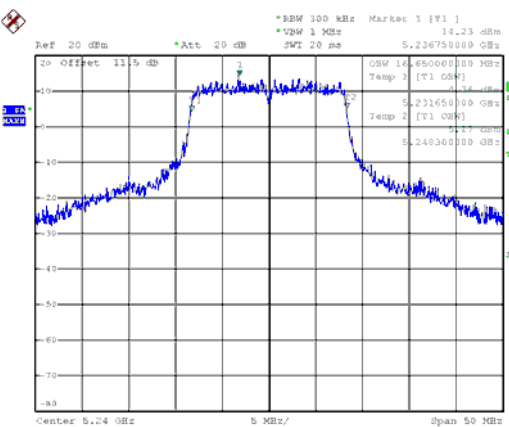
CH40



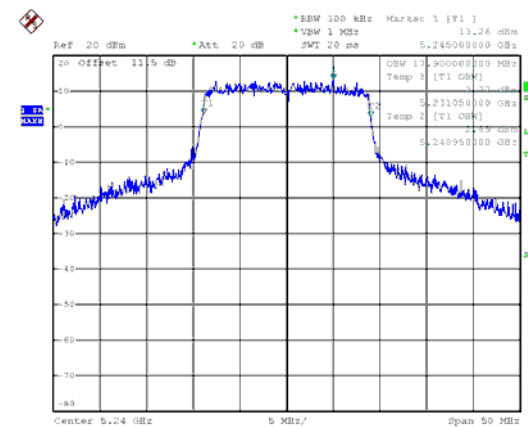
CH40



CH48

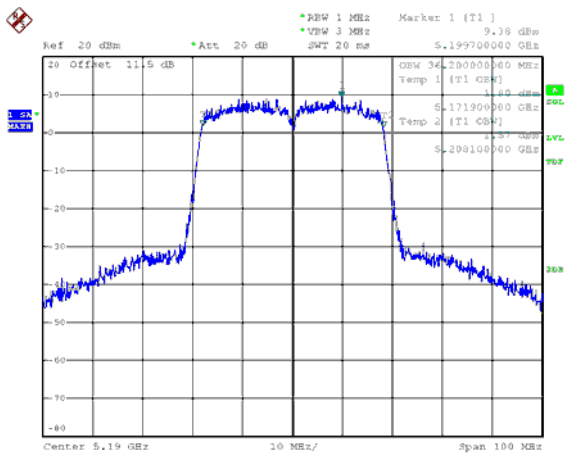


CH48

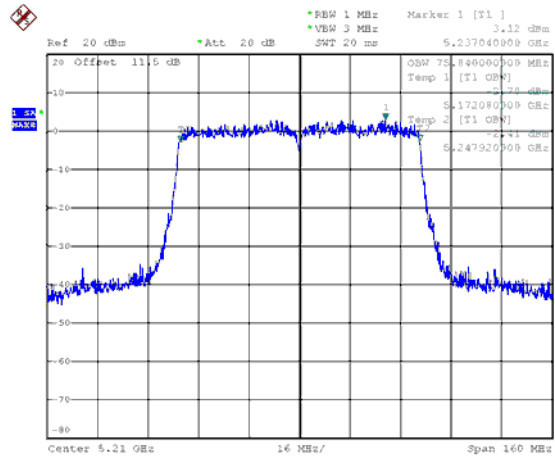




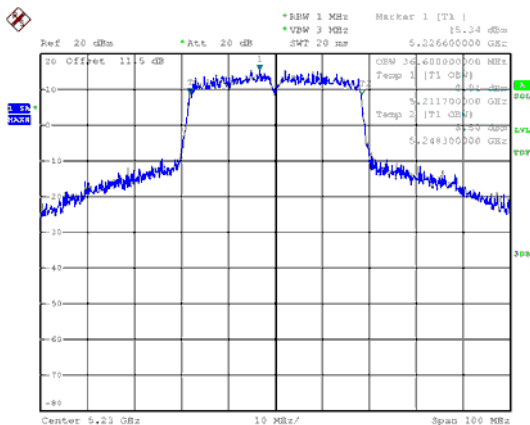
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



CH46





10. Average Power

10.1. 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.
☐	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.



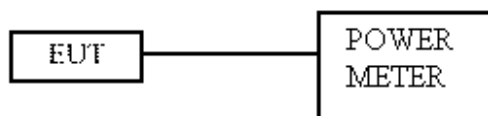
Frequency Band		Limit
☐	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, 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.

10.2. Test Procedure

The transmitter output is connected to a power meter.

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

10.3. Test Setup Layout



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

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	20.5	36	5180	19.51	19.21	22.37	172.699	30.00
11a	6 Mbps	23.5	40	5200	22.27	22.05	25.17	328.980	30.00
11a	6 Mbps	23.5	48	5240	22.14	21.85	25.01	316.790	30.00
11n HT20	MCS 0	20.5	36	5180	19.34	19.01	22.19	165.517	30.00
11n HT20	MCS 0	24	40	5200	22.48	22.82	25.66	368.436	30.00
11n HT20	MCS 0	24	48	5240	22.39	21.89	25.16	327.906	30.00
11n HT40	MCS 0	16.5	38	5190	15.51	15.33	18.43	69.682	30.00
11n HT40	MCS 0	22.5	46	5230	21.65	21.43	24.55	285.213	30.00
11ac VHT20	NSS1 MCS0	20.5	36	5180	19.39	19.06	22.24	167.434	30.00
11ac VHT20	NSS1 MCS0	24	40	5200	22.56	22.89	25.74	374.838	30.00
11ac VHT20	NSS1 MCS0	24	48	5240	22.46	22.01	25.25	335.052	30.00
11ac VHT40	NSS1 MCS0	16.5	38	5190	15.89	15.41	18.67	73.569	30.00
11ac VHT40	NSS1 MCS0	22.5	46	5230	21.72	21.51	24.63	290.173	30.00
11ac VHT80	NSS1 MCS0	14	42	5210	13.04	12.66	15.86	38.587	30.00

**In the 5.8G Band**

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	22.5	149	5745	20.61	19.72	23.20	208.836	30.00
11a	6 Mbps	22.5	157	5785	21.46	20.31	23.93	247.358	30.00
11a	6 Mbps	22	165	5825	19.63	19.22	22.44	175.394	30.00
11n HT20	MCS 0	22.5	149	5745	20.42	19.81	23.14	205.873	30.00
11n HT20	MCS 0	22.5	157	5785	20.53	19.98	23.27	212.520	30.00
11n HT20	MCS 0	22	165	5825	19.57	18.95	22.28	169.097	30.00
11n HT40	MCS 0	24.5	151	5755	21.85	22.78	25.35	342.779	30.00
11n HT40	MCS 0	24	159	5795	21.16	22.32	24.79	301.225	30.00
11ac VHT20	NSS1 MCS0	22.5	149	5745	20.51	19.91	23.23	210.409	30.00
11ac VHT20	NSS1 MCS0	22.5	157	5785	20.67	20.03	23.37	217.374	30.00
11ac VHT20	NSS1 MCS0	22	165	5825	19.65	19.03	22.36	172.241	30.00
11ac VHT40	NSS1 MCS0	24.5	151	5755	21.92	22.89	25.44	350.133	30.00
11ac VHT40	NSS1 MCS0	24	159	5795	21.21	22.45	24.88	307.922	30.00
11ac VHT80	NSS1 MCS0	20	155	5775	18.69	18.21	21.47	140.182	30.00



11. Power Spectral Density

11.1. Test Limit

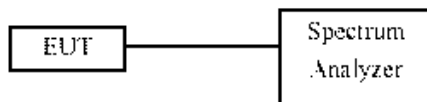
PSD:

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

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

11.3. Test Setup Layout





11.4. Test Result and Data

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
11a	36	5180	8.14	7.70	10.94	0.10	11.04	15.39
11a	40	5200	10.88	10.46	13.69	0.10	13.79	15.39
11a	48	5240	11.15	10.37	13.79	0.10	13.89	15.39
11ac VHT20	36	5180	7.24	6.60	9.94	0.00	9.94	15.39
11ac VHT20	40	5200	10.91	10.34	13.64	0.00	13.64	15.39
11ac VHT20	48	5240	11.28	10.54	13.94	0.00	13.94	15.39
11ac VHT40	38	5190	1.46	0.85	4.18	0.09	4.27	15.39
11ac VHT40	46	5230	7.60	7.08	10.36	0.09	10.45	15.39
11ac VHT80	42	5210	-4.61	-5.29	-1.93	0.21	-1.72	15.39

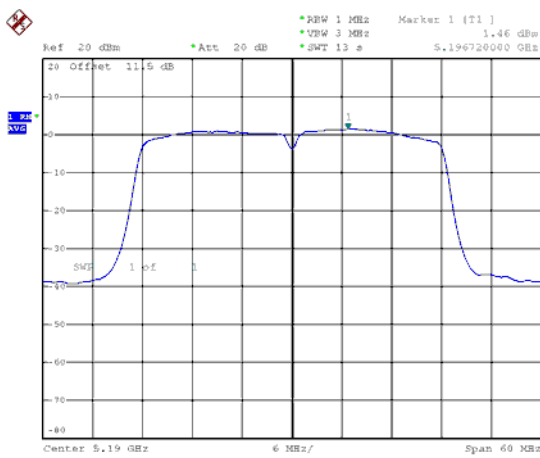
In the 5.8G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz/RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A	ANT B					
11a	149	5745	8.82	7.97	11.43	0.10	-3.01	8.52	28.39
11a	157	5785	9.68	8.93	12.33	0.10	-3.01	9.42	28.39
11a	165	5825	8.77	8.39	11.59	0.10	-3.01	8.68	28.39
11ac VHT20	149	5745	8.46	7.82	11.16	0.00	-3.01	8.15	28.39
11ac VHT20	157	5785	9.11	8.18	11.68	0.00	-3.01	8.67	28.39
11ac VHT20	165	5825	8.20	7.55	10.90	0.00	-3.01	7.89	28.39
11ac VHT40	151	5755	6.93	8.03	10.53	0.09	-3.01	7.60	28.39
11ac VHT40	159	5795	6.38	8.06	10.31	0.09	-3.01	7.39	28.39
11ac VHT80	155	5775	1.11	-0.10	3.56	0.21	-3.01	0.76	28.39

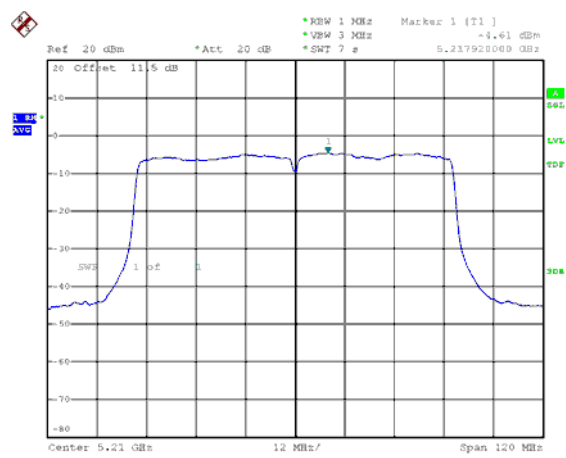




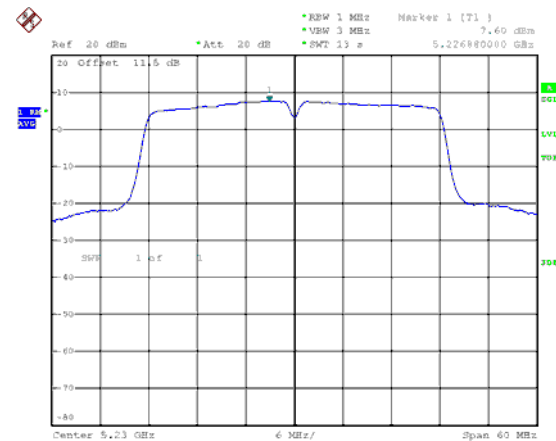
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42

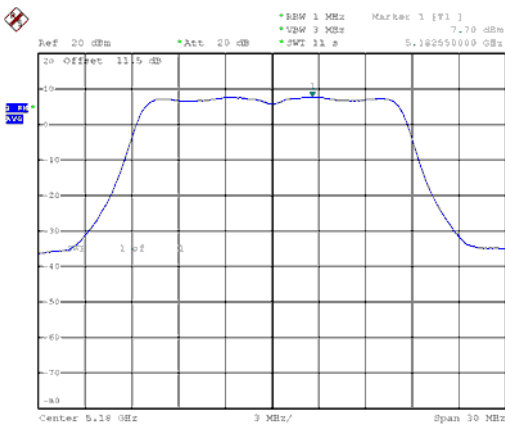


CH46

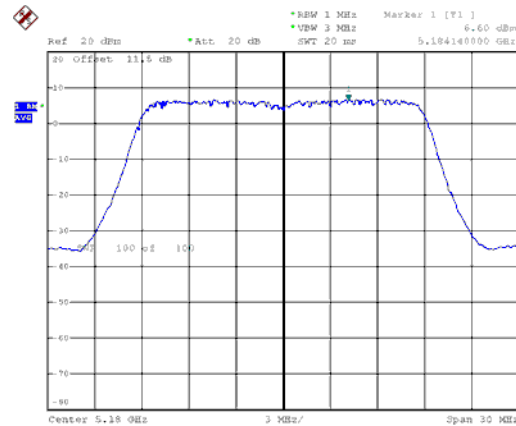




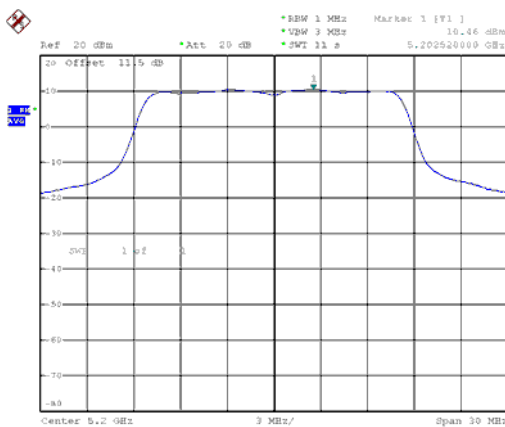
5.2G Band 1, ANT B
Modulation Type: 802.11a (6Mbps)
CH36



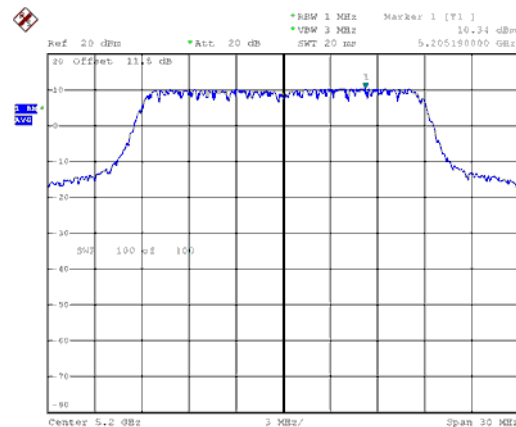
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



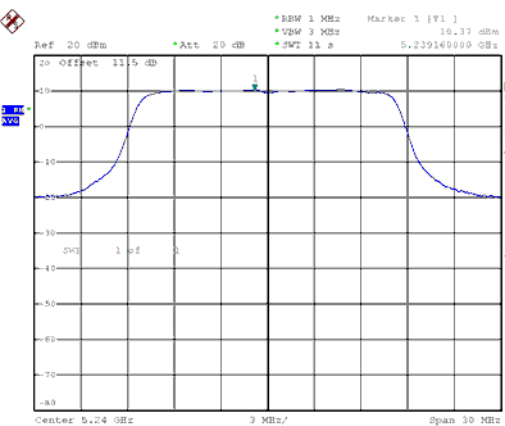
CH40



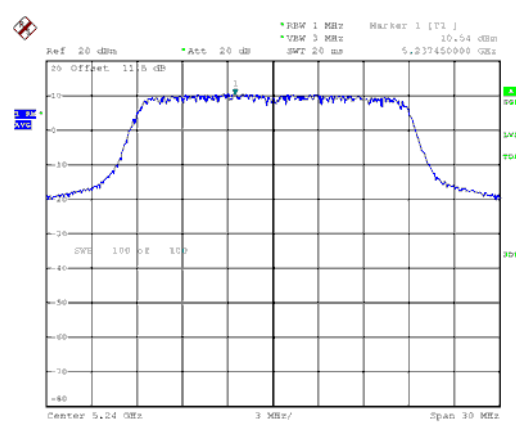
CH40



CH48

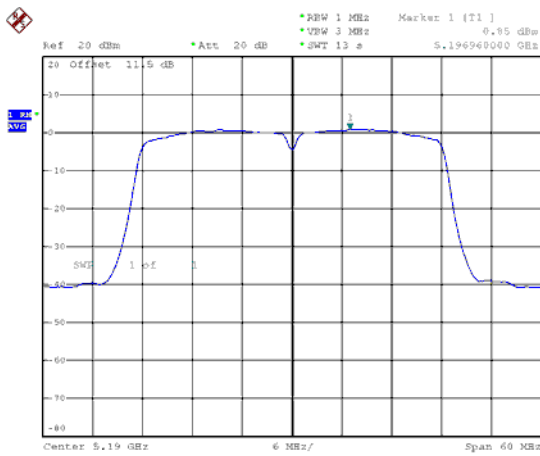


CH48

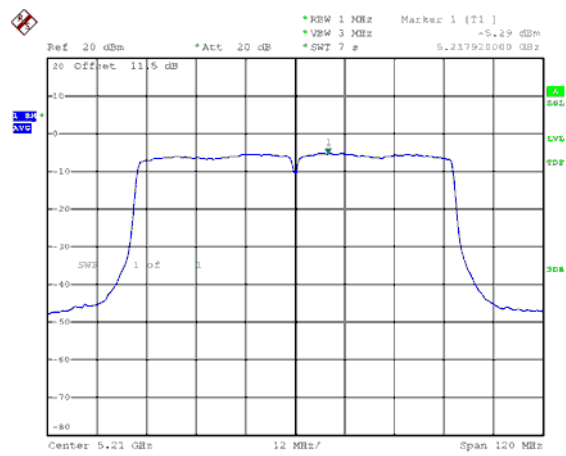




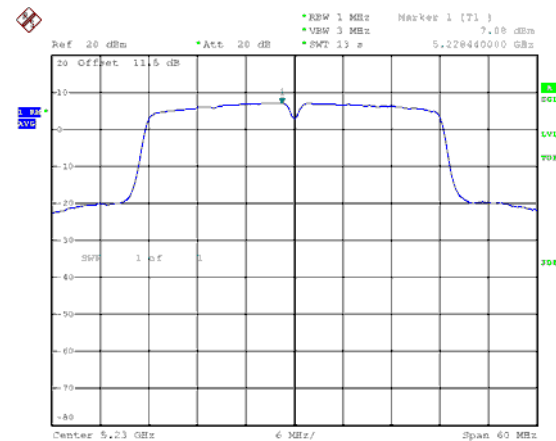
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



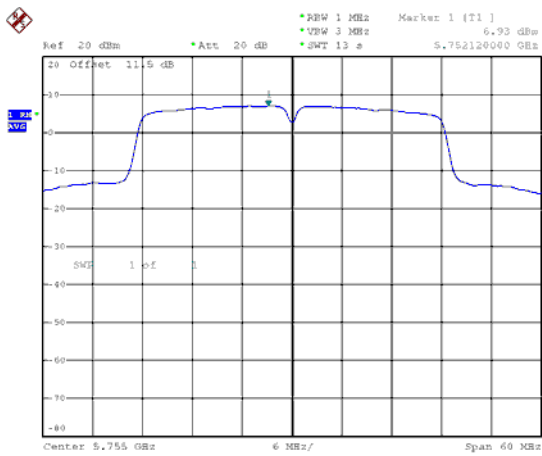
CH46



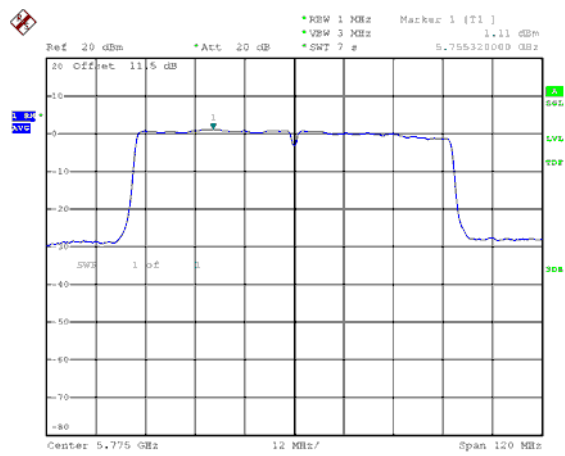




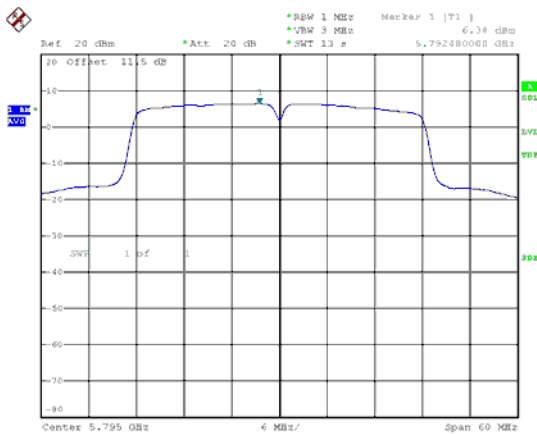
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155

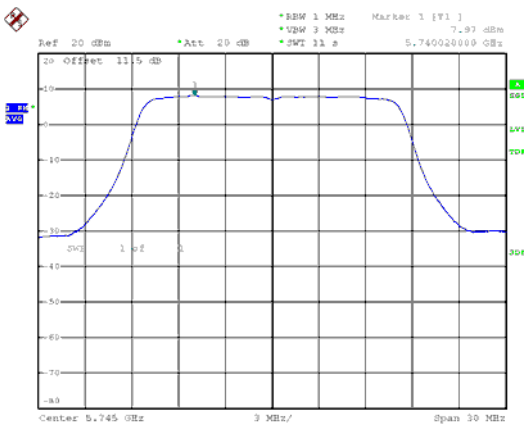


CH159

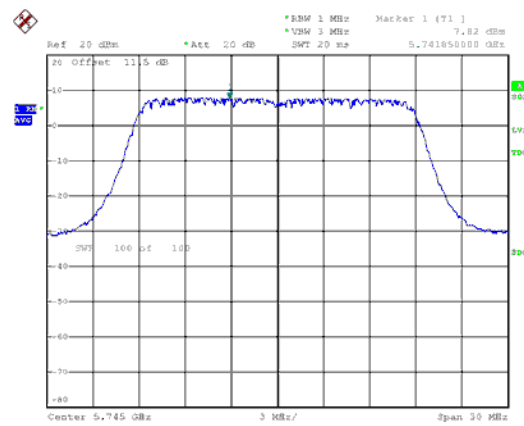




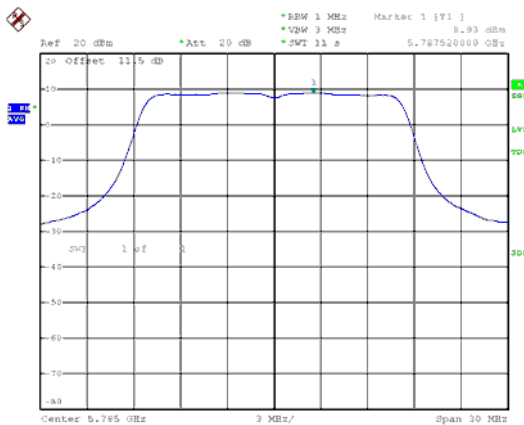
5.8G Band 4, ANT B
Modulation Type: 802.11a (6Mbps)
CH149



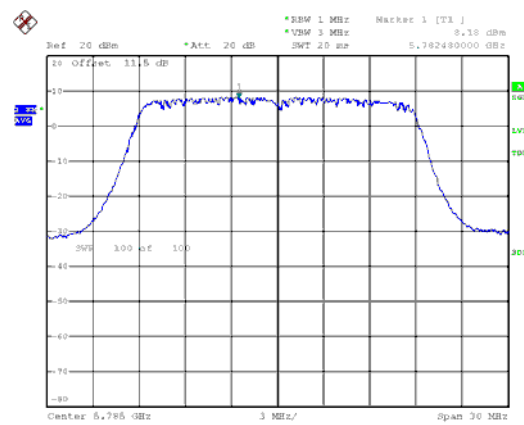
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149



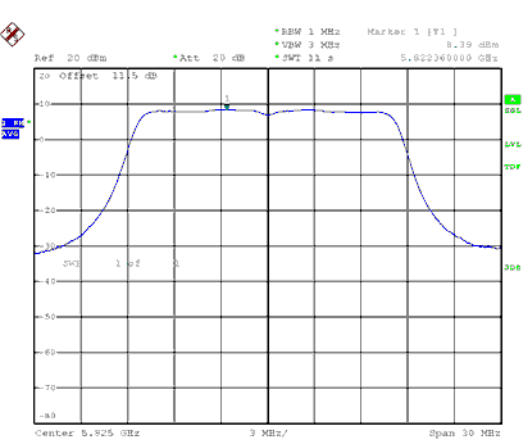
CH157



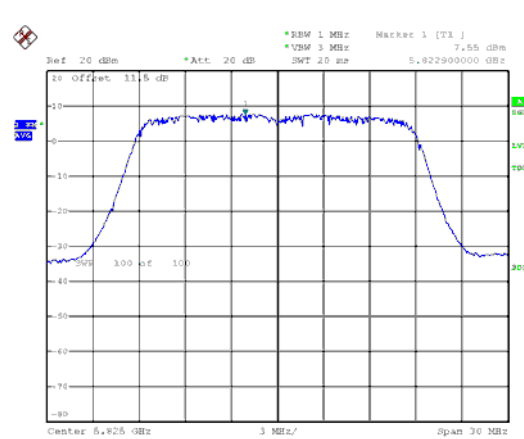
CH157



CH165

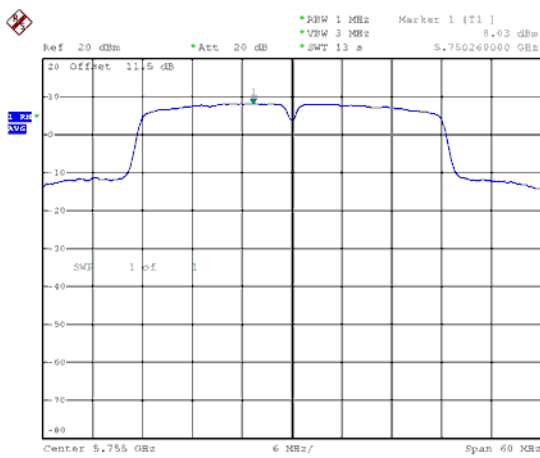


CH165

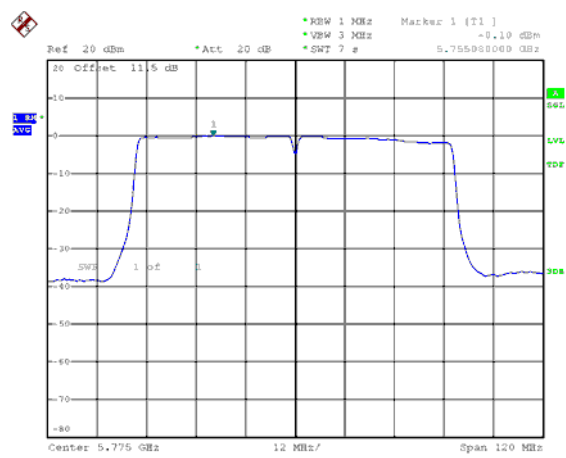




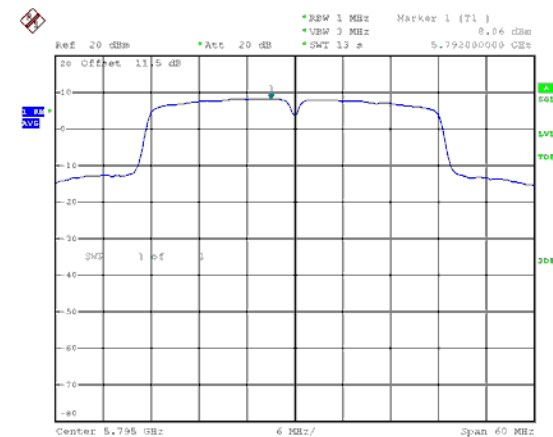
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155



CH159



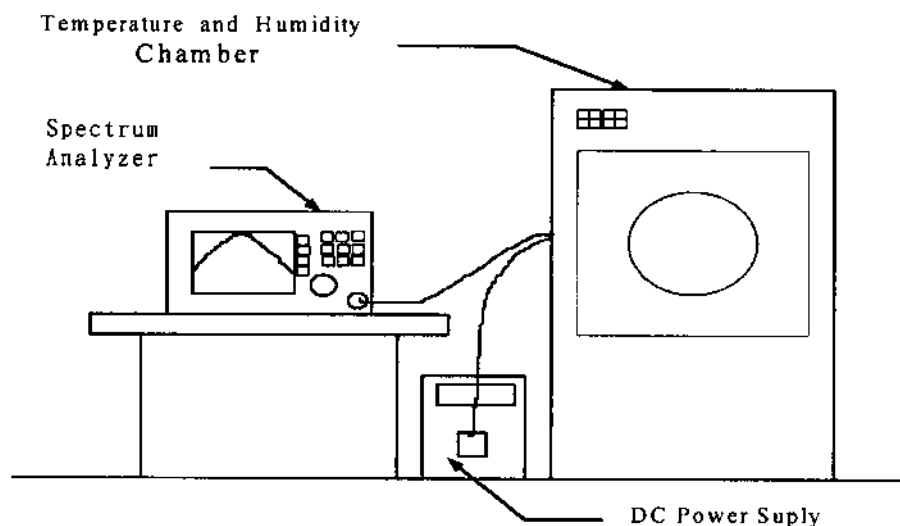


12. Frequency Stability

12.1. Test Procedure

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

12.2. Test Setup Layout





12.3. Test Result and Data

Operating frequency: 5180 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
45	102	5179.9989	-0.000021	5179.9981	-0.000037	5180.0032	0.000062
	120	5179.9901	-0.000191	5179.9985	-0.000029	5180.0040	0.000077
	138	5179.9905	-0.000183	5179.9999	-0.000002	5180.0027	0.000052
30	102	5179.9878	-0.000236	5179.9886	-0.000220	5179.9888	-0.000216
	120	5179.9870	-0.000251	5179.9872	-0.000247	5179.9876	-0.000239
	138	5179.9879	-0.000234	5179.9882	-0.000228	5179.9883	-0.000226
20	102	5179.9866	-0.000259	5179.9866	-0.000259	5179.9862	-0.000266
	120	5179.9852	-0.000286	5179.9849	-0.000292	5179.9850	-0.000290
	138	5179.9861	-0.000268	5179.9855	-0.000280	5179.9859	-0.000272
10	102	5179.9899	-0.000195	5179.9890	-0.000212	5179.9967	-0.000064
	120	5179.9890	-0.000212	5179.9895	-0.000203	5179.9950	-0.000097
	138	5179.9886	-0.000220	5179.9888	-0.000216	5179.9960	-0.000077
0	102	5179.9984	-0.000031	5179.9990	-0.000019	5180.0010	0.000019
	120	5179.9974	-0.000050	5179.9984	-0.000031	5180.0004	0.000008
	138	5179.9978	-0.000042	5179.9991	-0.000017	5179.9981	-0.000037

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.