



FCC RADIO TEST REPORT

Applicant : Cameo Communications Inc.
Address : 5F, No. 158, Ruihu St., Neihu Dist., Taipei City 114,
Taiwan
Equipment : 11ac 3x3 WIFI Adapter
Model No. : CLM-3000-1300
Trade Name : CAMEO
FCC ID : NHPCLM30001300

I HEREBY CERTIFY THAT :

The sample was received on Sep. 29, 2016 and the testing was carried out on Oct. 07, 2016 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Ray Chou / Assistant Manager

Tested by:

Spree Yei / Engineer

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





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History of this test report

Report No.	Issue Date	Description
TEFE1608215	Oct. 11, 2016	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.4:2014

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

First R&O 14-30

KDB662911

KDB789033

KDB644545

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207(a)	. AC Power Line Conducted Emission	Pass
15.407(b) 15.209	. Radiated Spurious Emission	Pass
15.407(a)	. 26 dB Occupied Bandwidth	Pass
15.407	. 6 dB Bandwidth	Pass
15.407 (a) & (a)(3)	. Average Power	Pass
15.407(a)	. Output and PPSD	Pass



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Equipment	11ac 3x3 WIFI Adapter
Model No.	CLM-3000-1300
Brand Name	CAMEO
Modulation Type	DSSS, OFDM
Frequency Range	802.11b/g/n: 2412-2462MHz 802.11a/an/ac: 5150-5250MHz, 5725-5850MHz
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: 6.5Mbps to 450Mbps (MCS0 – MCS23, HT20/40) 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11ac: 13Mbps to 1300Mbps (MCS0 – MCS9, VHT 20/40/80)
Antenna Type	Dipole Antenna
Antenna Gain	802.11b/g/n/a/an/ac: Antenna 1: 2.0 dBi Antenna 2: 2.0 dBi Antenna 3: 2.0 dBi
Product Description	Please refer to User's Manual.
Connecting I/O Port(s)	Please refer to User's Manual.

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

2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11an HT 20, 802.11ac VHT20

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

802.11an HT 40, 802.11ac VHT40

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

802.11ac VHT80

Channel	Frequency(MHz)
*42	5210

Band: 5725MHz -5850MHz

802.11a, 802.11an HT20, 802.11ac VHT20

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

802.11an HT 40, 802.11ac VHT40

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

802.11ac VHT80

Channel	Frequency(MHz)
*155	5775

Note: Channels remarked * are selected to perform test.



2.3. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
 - b. The complete test system included Notebook and EUT for RF test.
 - c. An executive program," ART2-GUI" under WIN 7 was executed to transmit and receive data via WLAN.
 - d. The following test modes were performed for the test:
 - Test Mode 1. 802.11a (6Mbps)
 - Test Mode 2. 802.11an HT20 (6.5Mbps)
 - Test Mode 3. 802.11an HT40 (13.5Mbps)
 - Test Mode 4. 802.11ac VHT20 (6.5Mbps)
 - Test Mode 5. 802.11ac VHT40 (13.5Mbps)
 - Test Mode 6. 802.11ac VHT80 (29.3Mbps)
- For conducted test, "Test Mode 1" generated the worst case, it was reported as the final data.
- For radiated test (below 1GHz), "Test Mode 1" generated the worst case, it was reported as the final data.
- For radiated test (above 1GHz), "Test Mode 1 、 4 、 5 、 6" were reported as the final data.

2.4. Description of Test System

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



2.5. General Information of Test

Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582	
	FCC	TW1079, TW1061, 390316, 228391, 641184
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-4218, R-4399 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

2.6. Measurement Uncertainty

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



3. Test Equipment and Ancillaries Used for Tests

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI3	100443	2016/03/28	2017/03/27
LISN	Schwarzbeck	NSLK 8127	8127-740	2016/08/30	2017/08/29
LISN	Schwarzbeck	NSLK 8127	8127-516	2016/09/06	2017/09/05
Pulse Limiter	R&S	ESH3-Z2	101934	2016/03/09	2017/03/08
Bilog Antenna	Schwarzbeck	VULB9168	369	2016/03/22	2017/03/21
Active Loop Antenna	EMCO	6507	40855	2016/05/11	2017/05/10
Horn Antenna	EMCO	3115	31601	2016/09/05	2017/09/04
Horn Antenna	EMCO	3116	31970	2016/03/18	2017/03/17
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2016/03/16	2017/03/15
Preamplifier	EM	EM330	60660	2016/03/16	2017/03/15
Preamplifier	EMC INSTRUMENTS	EMC051845 SE	980333	2016/09/13	2017/09/12
Preamplifier	Agilent	8449B	3008A01954	2016/03/04	2017/03/03
Preamplifier	MITEQ	AMF-7D-001 0100-30-10P	1860212	2016/03/16	2017/03/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2015/11/04	2016/11/03
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2016/03/18	2017/03/17
Spectrum Analyzer	R&S	FSP40	100219	2016/09/01	2017/08/31
Bluetooth Tester	R&S	CBT	101133	2016/03/18	2017/03/17
Attenuator	KEYSIGHT	8491B	MY39250703	2016/03/07	2017/03/06
Rotary Attenuator	Agilent	8494B	MY42154466	2016/03/08	2017/03/07
Rotary Attenuator	Agilent	8495B	MY42146680	2016/03/08	2017/03/07
Temp & Humi chamber	T-MACHINE	TMJ-9712	T-12-040111	2016/09/05	2017/09/04
Series Power Meter	Anritsu	ML2495A	1224005	2016/03/03	2017/03/02
Power Sensor	Anritsu	MA2411B	1207295	2016/03/03	2017/03/02
Cable	HUBER SUHNER	SUCOFLEX 102	28422/2	2016/03/15	2017/03/14
Cable	HUBER SUHNER	SUCOFLEX 102	28418/2	2016/03/16	2017/03/15
Cable	HUBER SUHNER	SUCOFLEX 102	28417/2	2016/03/04	2017/03/03
Software	Farad	Ez-EMC	ver.ct3a1	N/A	N/A
Software	AUDIX	E3	V8.2014-8-6	N/A	N/A
Software	Keysight	N7607B Signal Studio	v2.0.0.1	N/A	N/A
Software	Keysight	Inservice MonitorUtility	N/A	N/A	N/A



4. Antenna Requirements

4.1. Standard Applicable

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

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

4.2. Antenna Construction and Directional Gain

Antenna Type	Antenna Gain
Dipole Antenna	Antenna 1: 2.0 dBi
	Antenna 2: 2.0 dBi
	Antenna 3: 2.0 dBi

For Power directional gain= $G_{ant} = 2\text{dBi}$

For PSD directional gain = $G_{ant} + 10\log(N) \text{ dBi}$

$$= 2 + 10\log(3)$$

$$= 6.77 \text{ (dBi)}$$



5. Test of AC Power Line Conducted Emission

5.1. Test Limit

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

Frequency (MHz)	Quasi Peak (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

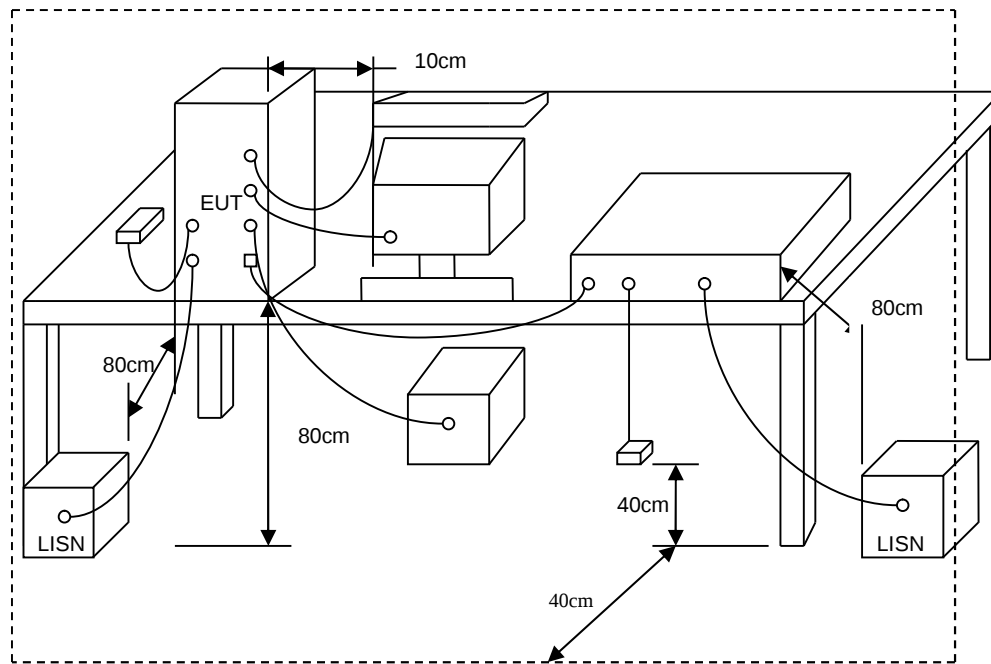
*Decreases with the logarithm of the frequency.

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.



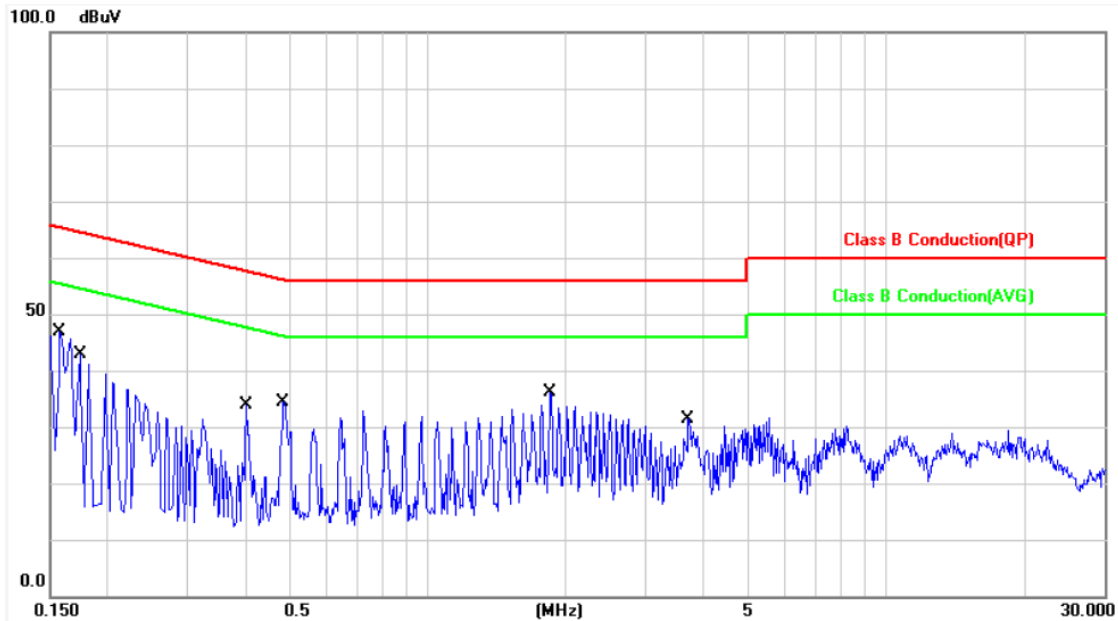
5.3. Typical Test Setup





5.4. Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: Mode 1	Temperature	: 20 °C
Test date	: Oct. 07, 2016	Humidity	: 57 %
Memo	: CH 44	Atmospheric Pressure	: 1008 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	9.98	29.41	39.39	65.56	-26.17	QP	P
2	0.1580	9.98	22.67	32.65	55.56	-22.91	AVG	P
3	0.1740	9.98	26.31	36.29	64.76	-28.47	QP	P
4	0.1740	9.98	3.40	13.38	54.76	-41.38	AVG	P
5	0.4020	9.97	21.22	31.19	57.81	-26.62	QP	P
6	0.4020	9.97	16.24	26.21	47.81	-21.60	AVG	P
7	0.4860	9.98	23.64	33.62	56.24	-22.62	QP	P
8	0.4860	9.98	23.15	33.13	46.24	-13.11	AVG	P
9	1.8580	10.06	23.90	33.96	56.00	-22.04	QP	P
10	1.8580	10.06	21.96	32.02	46.00	-13.98	AVG	P
11	3.7220	10.14	15.82	25.96	56.00	-30.04	QP	P
12	3.7220	10.14	9.72	19.86	46.00	-26.14	AVG	P

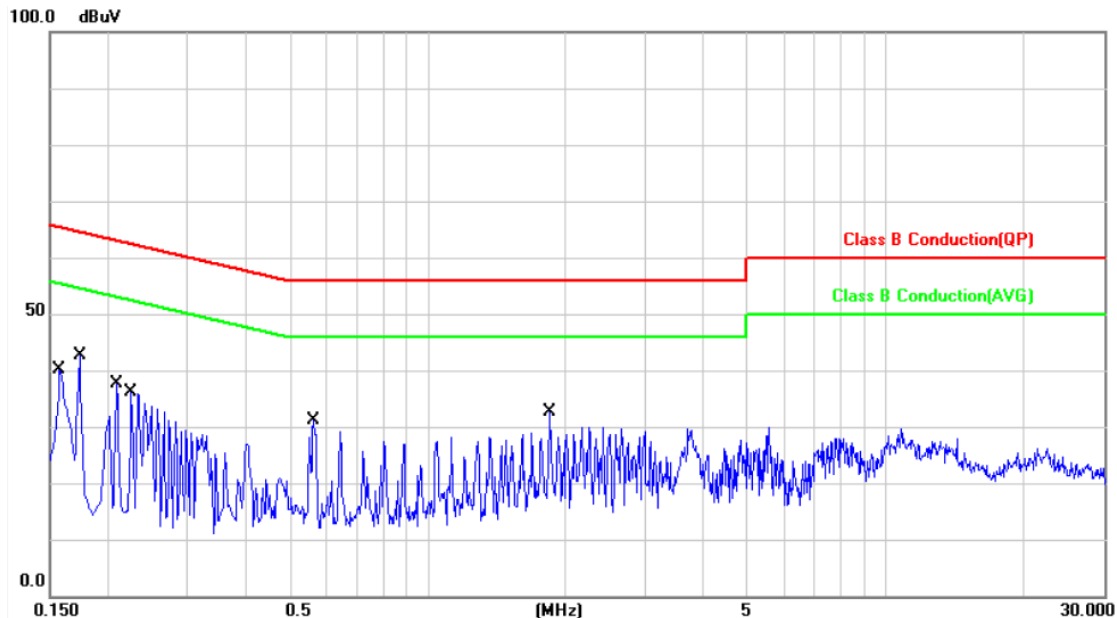
Note: Level = Reading + Factor

Margin = Level – Limit

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



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1	Temperature	: 20 °C
Test date	: Oct. 07, 2016	Humidity	: 57 %
Memo	: CH 44	Atmospheric Pressure	: 1008 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	9.98	28.95	38.93	65.78	-26.85	QP	P
2	0.1539	9.98	8.42	18.40	55.78	-37.38	AVG	P
3	0.1660	9.98	27.65	37.63	65.15	-27.52	QP	P
4	0.1660	9.98	16.48	26.46	55.15	-28.69	AVG	P
5	0.1780	9.98	25.87	35.85	64.57	-28.72	QP	P
6	0.1780	9.98	2.51	12.49	54.57	-42.08	AVG	P
7	0.1940	9.98	23.62	33.60	63.86	-30.26	QP	P
8	0.1940	9.98	1.23	11.21	53.86	-42.65	AVG	P
9	0.4060	9.94	16.12	26.06	57.73	-31.67	QP	P
10	0.4060	9.94	15.25	25.19	47.73	-22.54	AVG	P
11	0.5660	9.95	19.75	29.70	56.00	-26.30	QP	P
12	0.5660	9.95	19.10	29.05	46.00	-16.95	AVG	P

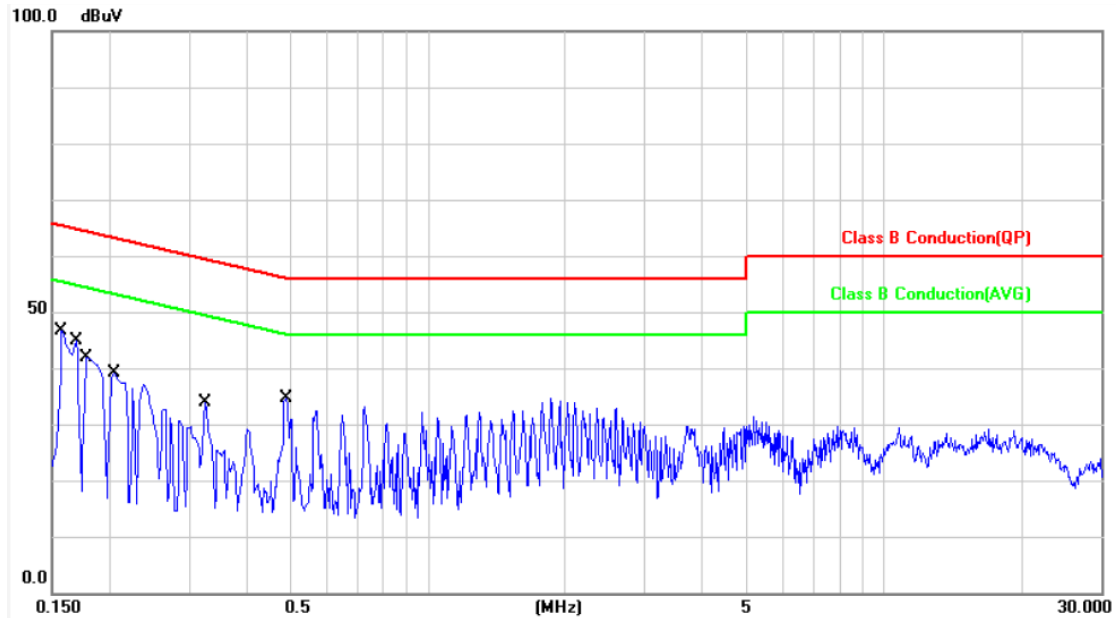
Note: Level = Reading + Factor

Margin = Level – Limit

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



Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: Mode 1	Temperature	: 20 °C
Test date	: Oct. 07, 2016	Humidity	: 57 %
Memo	: CH 149	Atmospheric Pressure	: 1008 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	9.98	28.93	38.91	65.56	-26.65	QP	P
2	0.1580	9.98	21.03	31.01	55.56	-24.55	AVG	P
3	0.1700	9.98	27.06	37.04	64.96	-27.92	QP	P
4	0.1700	9.98	13.45	23.43	54.96	-31.53	AVG	P
5	0.1787	9.97	25.32	35.29	64.54	-29.25	QP	P
6	0.1787	9.97	2.59	12.56	54.54	-41.98	AVG	P
7	0.2060	9.97	22.27	32.24	63.36	-31.12	QP	P
8	0.2060	9.97	0.88	10.85	53.36	-42.51	AVG	P
9	0.3260	9.96	20.13	30.09	59.55	-29.46	QP	P
10	0.3260	9.96	19.47	29.43	49.55	-20.12	AVG	P
11	0.4900	9.98	23.23	33.21	56.17	-22.96	QP	P
12	0.4900	9.98	21.98	31.96	46.17	-14.21	AVG	P

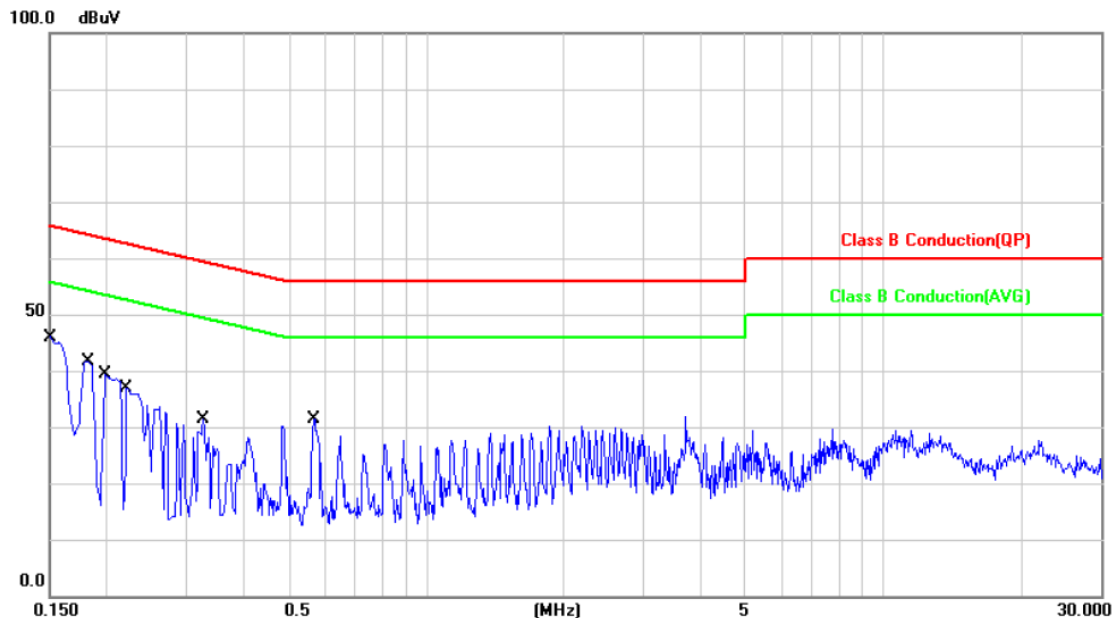
Note: Level = Reading + Factor

Margin = Level – Limit

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



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1	Temperature	: 20 °C
Test date	: Oct. 07, 2016	Humidity	: 57 %
Memo	: CH 149	Atmospheric Pressure	: 1008 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1524	9.98	29.30	39.28	65.86	-26.58	QP	P
2	0.1524	9.98	7.32	17.30	55.86	-38.56	AVG	P
3	0.1819	9.98	25.41	35.39	64.39	-29.00	QP	P
4	0.1819	9.98	2.21	12.19	54.39	-42.20	AVG	P
5	0.1980	9.98	23.48	33.46	63.69	-30.23	QP	P
6	0.1980	9.98	1.32	11.30	53.69	-42.39	AVG	P
7	0.2220	9.97	20.26	30.23	62.74	-32.51	QP	P
8	0.2220	9.97	-0.23	9.74	52.74	-43.00	AVG	P
9	0.3260	9.95	18.28	28.23	59.55	-31.32	QP	P
10	0.3260	9.95	15.07	25.02	49.55	-24.53	AVG	P
11	0.5700	9.95	20.17	30.12	56.00	-25.88	QP	P
12	0.5700	9.95	19.38	29.33	46.00	-16.67	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit

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



6. Test of Spurious Emission (Radiated)

6.1. Test Limit

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

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

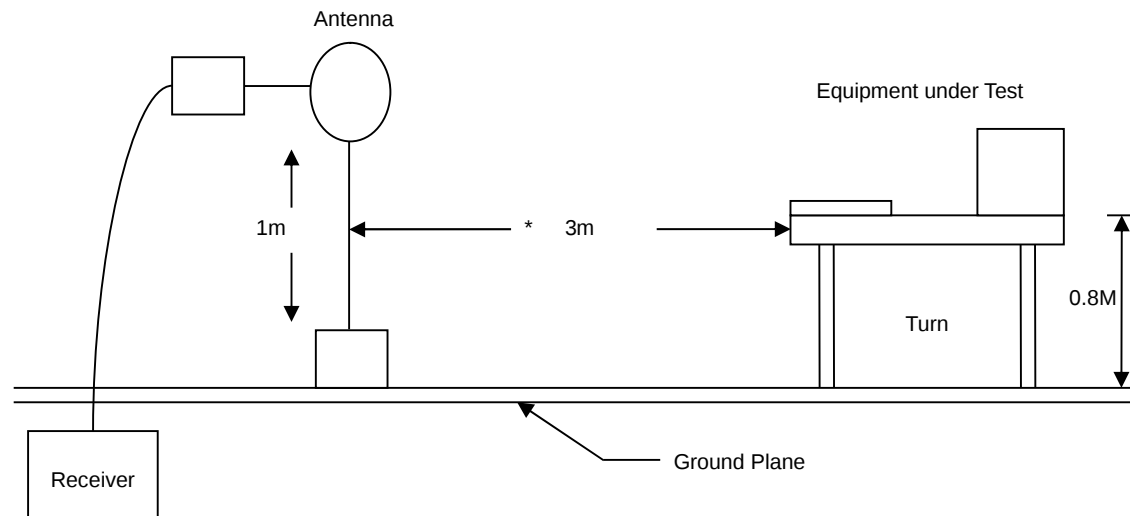
6.2. Test Procedures

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

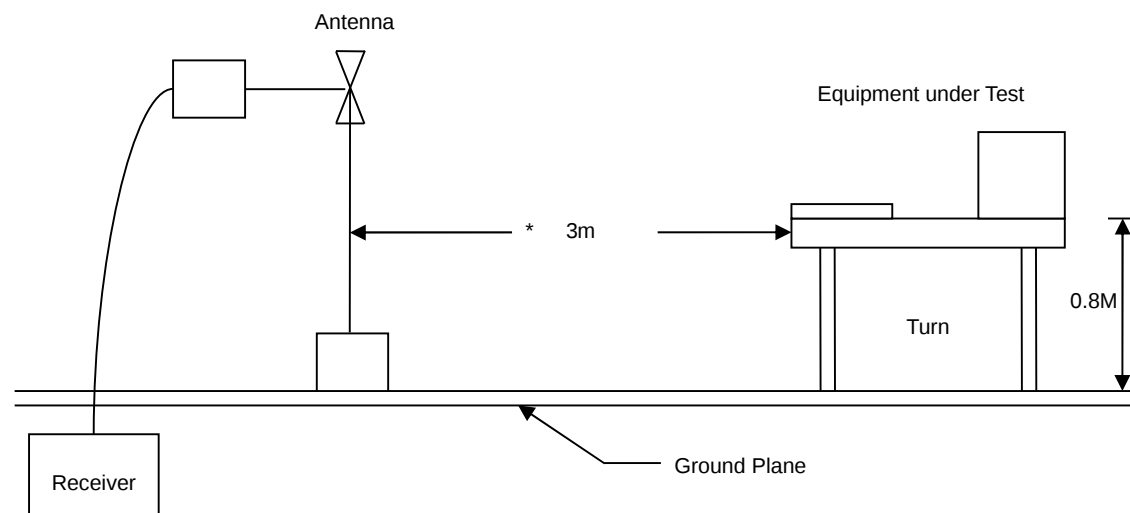


6.3. Typical Test Setup

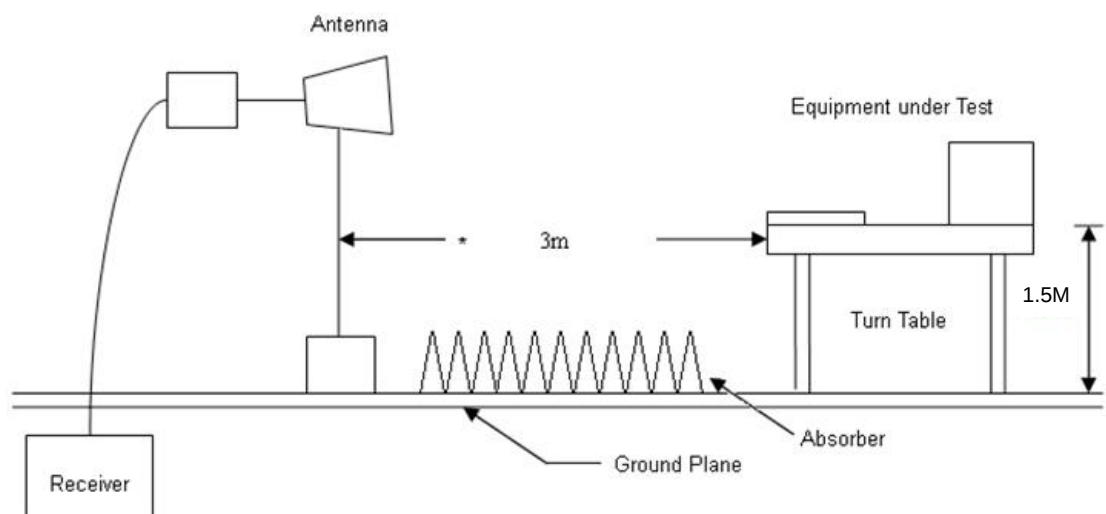
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



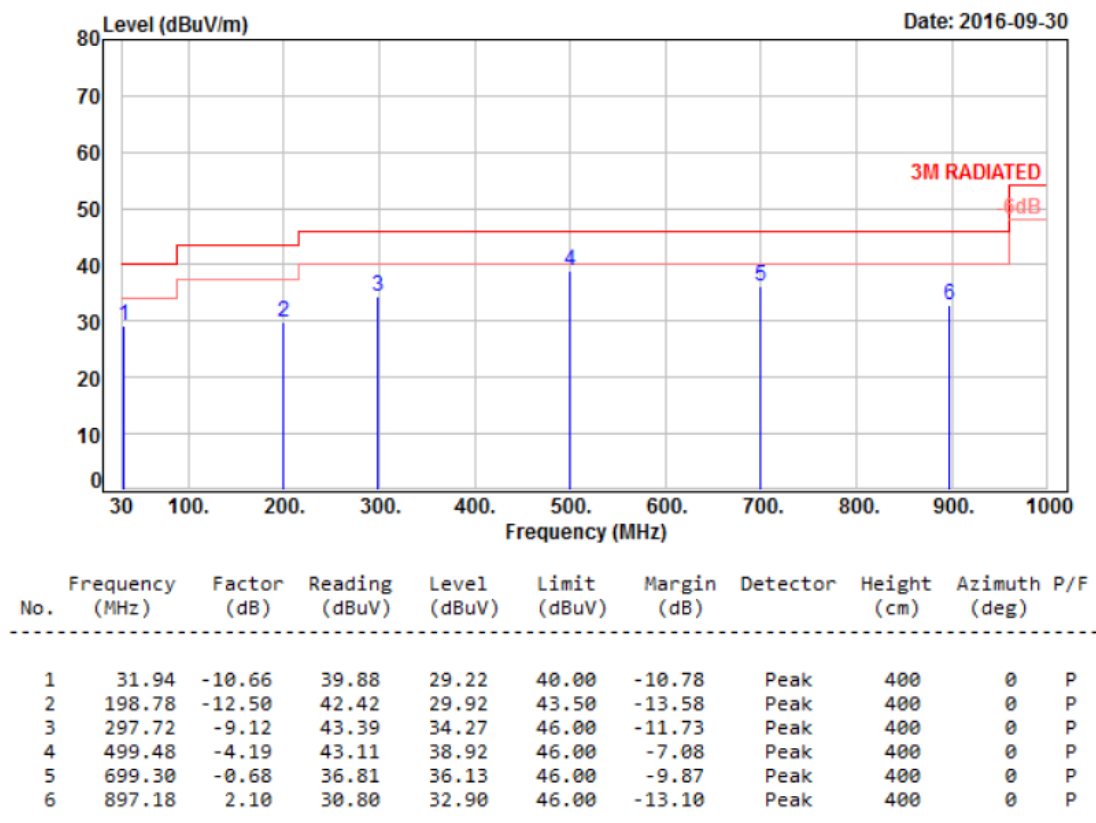


6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

Power	:	DC 5V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1	Temperature	:	24 °C
Test Date	:	Sep. 30, 2016	Humidity	:	63 %
Memo	:	CH 44	Atmospheric Pressure	:	1035 hPa



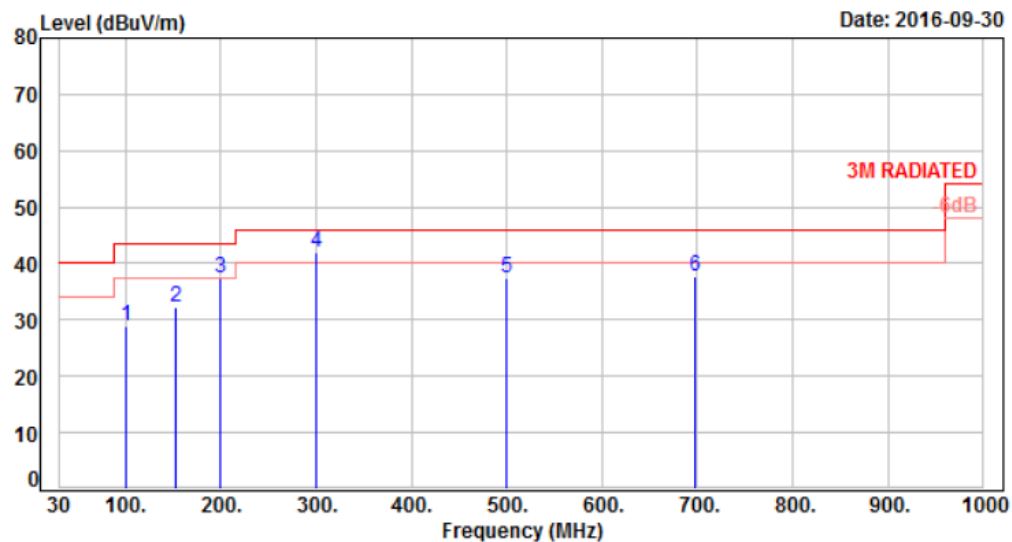
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 24 °C
Test Date	: Sep. 30, 2016	Humidity	: 63 %
Memo	: CH 44	Atmospheric Pressure	: 1035 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	99.84	-14.88	43.93	29.05	43.50	-14.45	Peak	400	0	P
2	152.22	-9.99	42.13	32.14	43.50	-11.36	Peak	400	0	P
3	198.78	-12.50	49.81	37.31	43.50	-6.19	Peak	400	0	P
4	299.66	-9.08	50.96	41.88	46.00	-4.12	QP	106	242	P
5	499.48	-4.19	41.50	37.31	46.00	-8.69	Peak	400	0	P
6	697.36	-0.72	38.29	37.57	46.00	-8.43	Peak	400	0	P

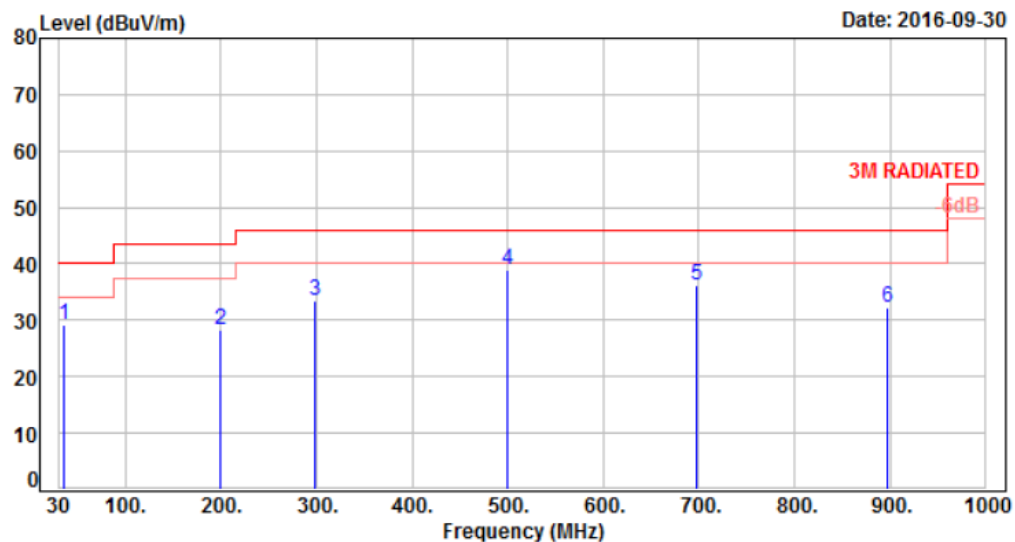
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 24 °C
Test Date	: Sep. 30, 2016	Humidity	: 63 %
Memo	: CH 149	Atmospheric Pressure	: 1035 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	35.82	-10.47	39.59	29.12	40.00	-10.88	Peak	400	0	P
2	198.78	-12.50	40.81	28.31	43.50	-15.19	Peak	400	0	P
3	297.72	-9.12	42.71	33.59	46.00	-12.41	Peak	400	0	P
4	499.48	-4.19	42.98	38.79	46.00	-7.21	Peak	400	0	P
5	697.36	-0.72	36.80	36.08	46.00	-9.92	Peak	400	0	P
6	897.18	2.10	30.08	32.18	46.00	-13.82	Peak	400	0	P

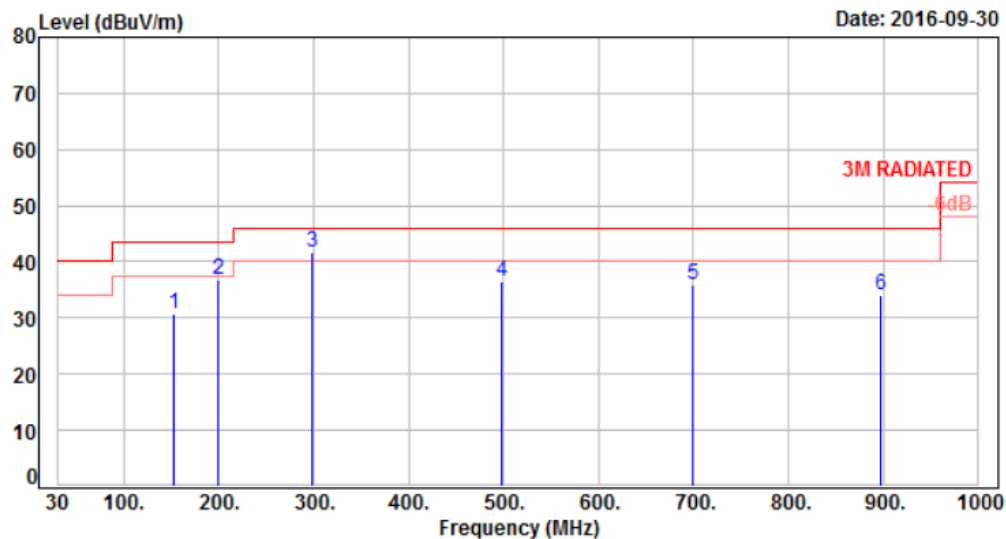
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 24 °C
Test Date	: Sep. 30, 2016	Humidity	: 63 %
Memo	: CH 149	Atmospheric Pressure	: 1035 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	152.22	-9.99	40.66	30.67	43.50	-12.83	Peak	400	0	P
2	198.78	-12.50	49.40	36.90	43.50	-6.60	Peak	400	0	P
3	297.72	-9.12	50.93	41.81	46.00	-4.19	QP	121	248	P
4	497.54	-4.22	40.66	36.44	46.00	-9.56	Peak	400	0	P
5	699.30	-0.68	36.43	35.75	46.00	-10.25	Peak	400	0	P
6	897.18	2.10	31.82	33.92	46.00	-12.08	Peak	400	0	P

Note: Level = Reading + Factor

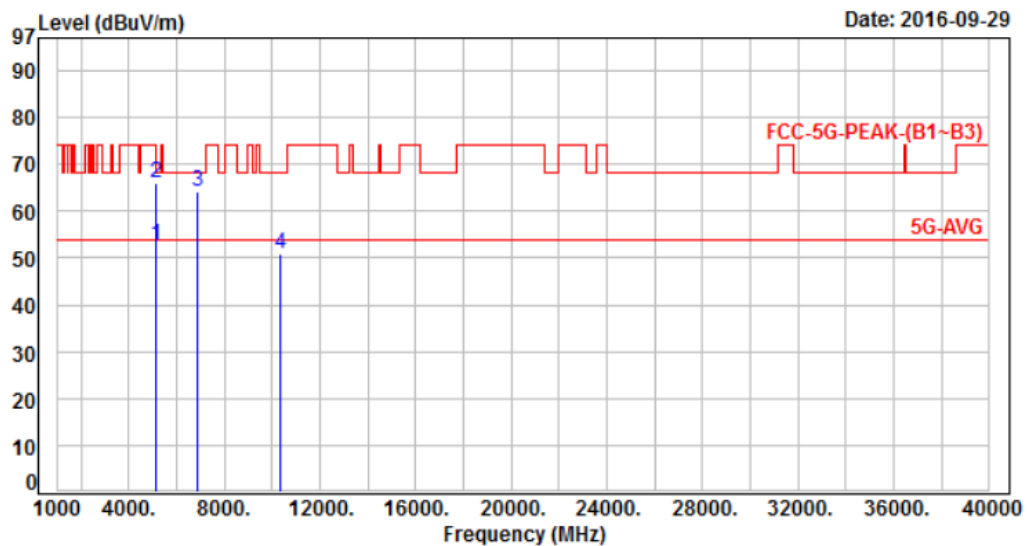
Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



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

Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 36	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	60.14	52.85	54.00	-1.15	Average	100	307	P
2	5150.00	-7.29	73.37	66.08	74.00	-7.92	Peak	100	307	P
3	6906.60	-5.68	69.67	63.99	68.20	-4.21	Peak	162	251	P
4	10360.00	0.23	50.76	50.99	68.20	-17.21	Peak	114	214	P

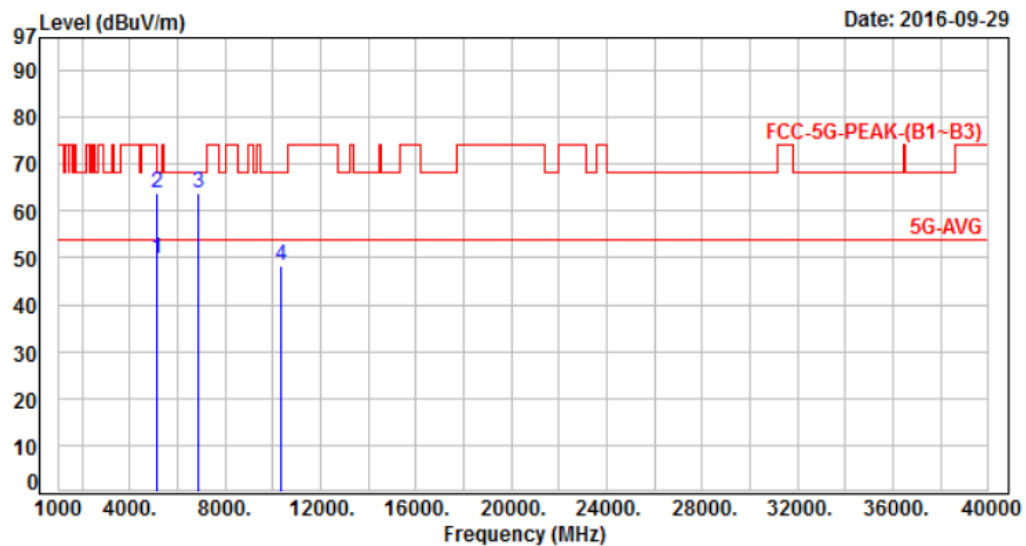
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 36	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	57.26	49.97	54.00	-4.03	Average	175	113	P
2	5150.00	-7.29	71.12	63.83	74.00	-10.17	Peak	175	113	P
3	6906.66	-5.68	69.55	63.87	68.20	-4.33	Peak	102	134	P
4	10360.00	0.23	48.02	48.25	68.20	-19.95	Peak	101	135	P

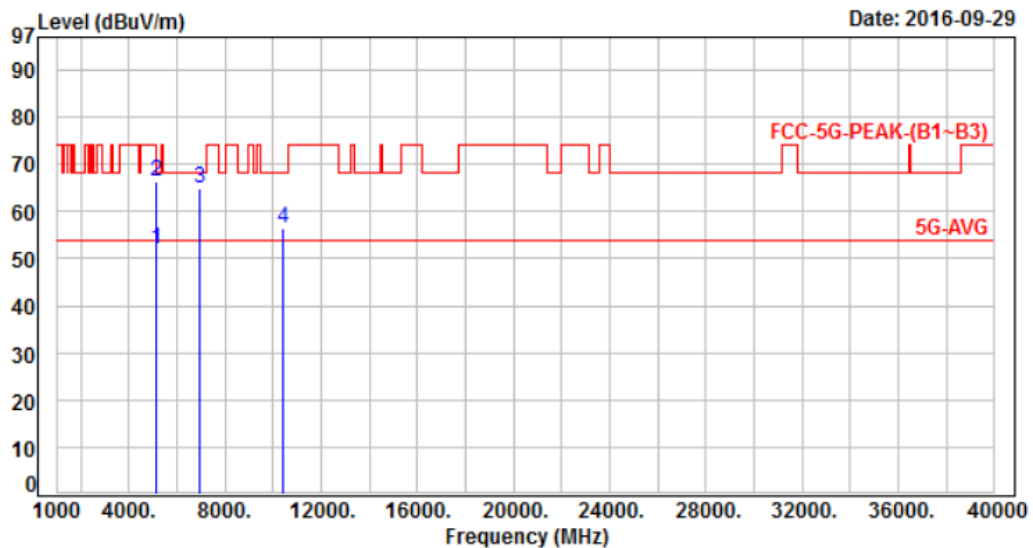
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 44	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.36	59.44	52.08	54.00	-1.92	Average	152	155	P
2	5150.00	-7.36	73.69	66.33	74.00	-7.67	Peak	152	155	P
3	6960.00	-5.87	70.76	64.89	68.20	-3.31	Peak	292	279	P
4	10440.00	0.10	56.44	56.54	68.20	-11.66	Peak	100	219	P

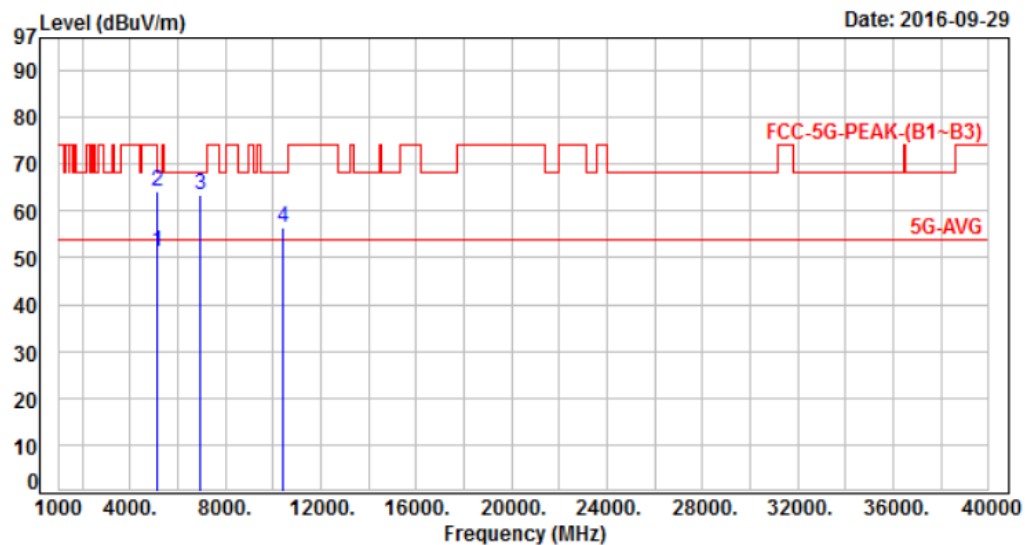
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 44	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	58.44	51.15	54.00	-2.85	Average	102	272	P
2	5150.00	-7.29	71.36	64.07	74.00	-9.93	Peak	102	272	P
3	6960.00	-5.68	69.25	63.57	68.20	-4.63	Peak	104	140	P
4	10440.00	0.29	55.98	56.27	68.20	-11.93	Peak	392	95	P

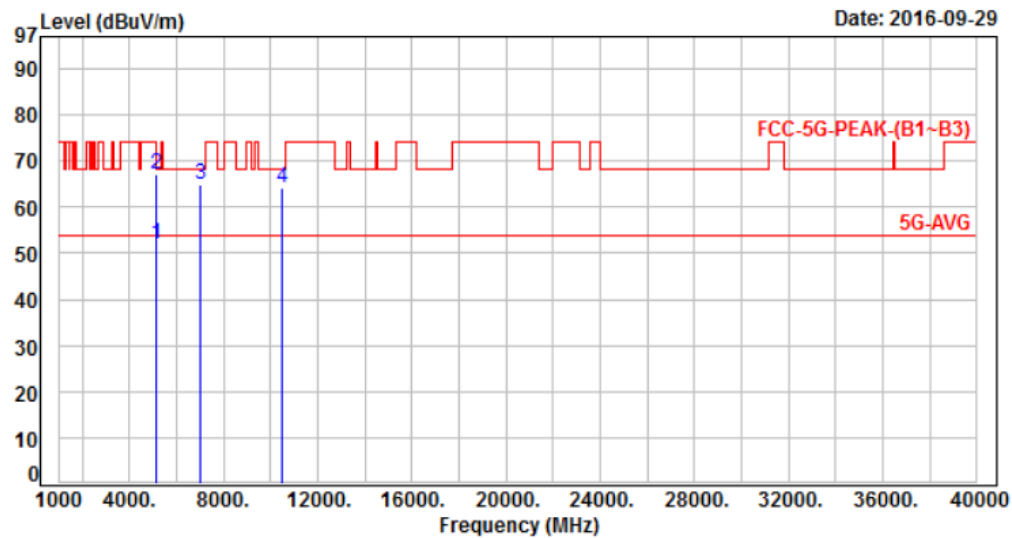
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 48	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.36	59.36	52.00	54.00	-2.00	Average	399	290	P
2	5150.00	-7.36	74.61	67.25	74.00	-6.75	Peak	399	290	P
3	6986.66	-5.88	70.97	65.09	68.20	-3.11	Peak	400	327	P
4	10480.00	0.13	63.92	64.05	68.20	-4.15	Peak	346	221	P

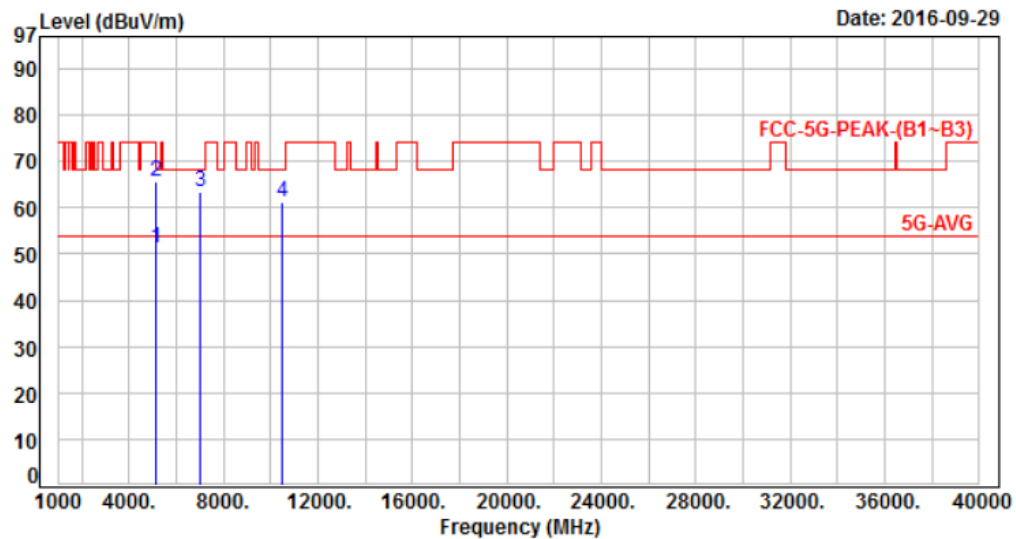
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 48	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	58.66	51.37	54.00	-2.63	Average	103	281	P
2	5150.00	-7.29	72.87	65.58	74.00	-8.42	Peak	103	281	P
3	6986.66	-5.69	69.26	63.57	68.20	-4.63	Peak	100	134	P
4	10480.00	0.32	60.74	61.06	68.20	-7.14	Peak	234	320	P

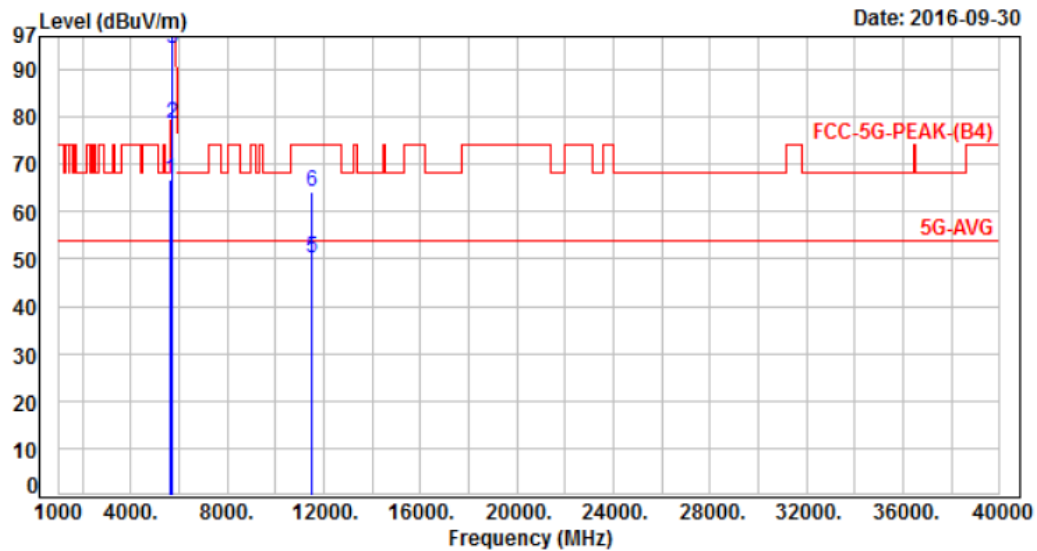
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 149	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.62	73.29	66.67	68.20	-1.53	Peak	186	242	P
2	5700.00	-6.64	85.29	78.65	105.20	-26.55	Peak	186	242	P
3	5720.00	-6.65	100.91	94.26	110.80	-16.54	Peak	186	242	P
4	5725.00	-6.65	109.26	102.61	122.20	-19.59	Peak	186	242	P
5	11490.00	1.37	48.82	50.19	54.00	-3.81	Average	388	143	P
6	11490.00	1.37	62.68	64.05	74.00	-9.95	Peak	388	143	P

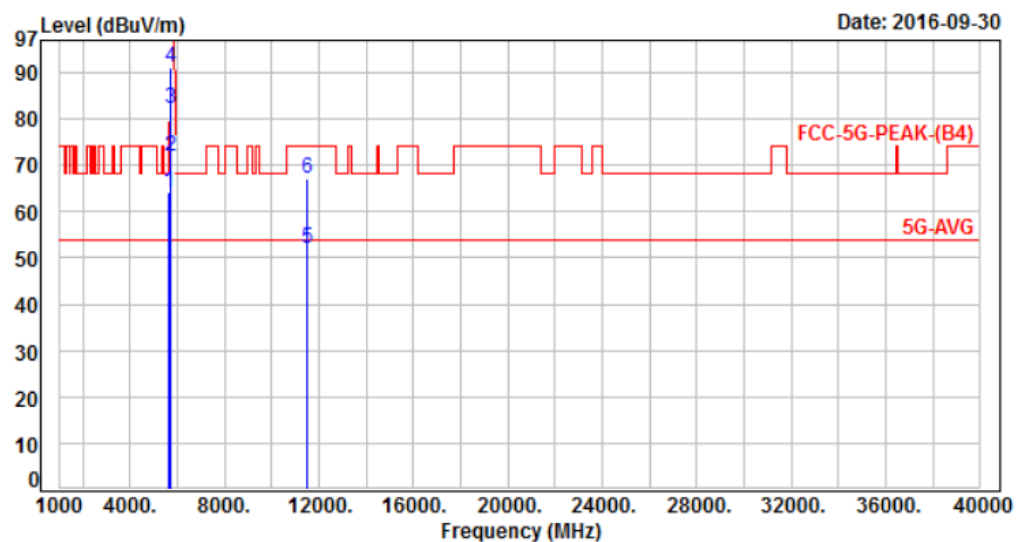
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 149	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.59	70.83	64.24	68.20	-3.96	Peak	356	157	P
2	5700.00	-6.60	78.37	71.77	105.20	-33.43	Peak	356	157	P
3	5720.00	-6.61	88.98	82.37	110.80	-28.43	Peak	356	157	P
4	5725.00	-6.61	97.89	91.28	122.20	-30.92	Peak	356	157	P
5	11490.00	1.65	50.30	51.95	54.00	-2.05	Average	400	78	P
6	11490.00	1.65	65.46	67.11	74.00	-6.89	Peak	400	78	P

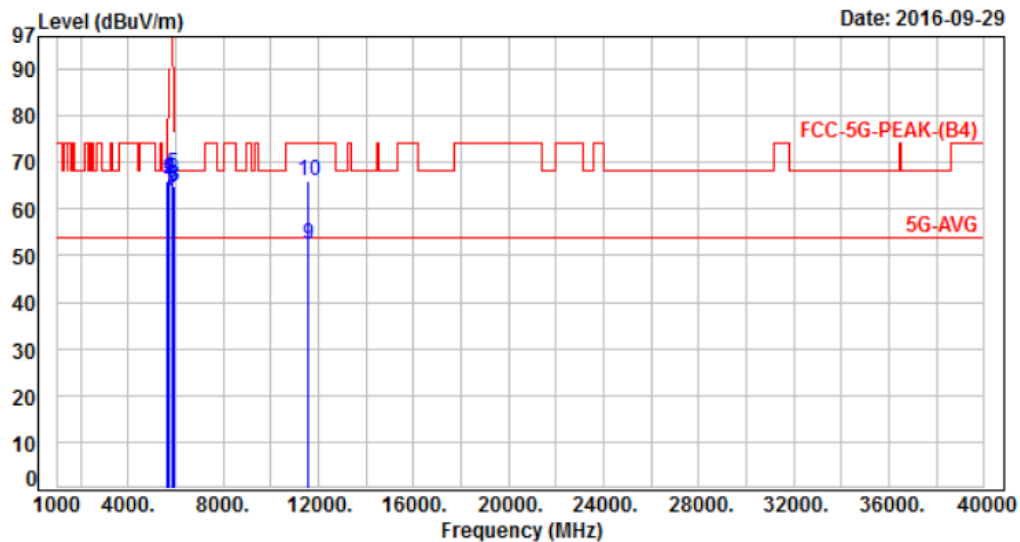
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 157	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.62	72.74	66.12	68.20	-2.08	Peak	262	139	P
2	5700.00	-6.64	73.11	66.47	105.20	-38.73	Peak	262	139	P
3	5720.00	-6.65	72.89	66.24	110.80	-44.56	Peak	262	139	P
4	5725.00	-6.65	73.52	66.87	122.20	-55.33	Peak	262	139	P
5	5850.00	-6.69	74.13	67.44	122.20	-54.76	Peak	155	203	P
6	5855.00	-6.69	71.14	64.45	110.80	-46.35	Peak	155	203	P
7	5875.00	-6.70	70.52	63.82	105.20	-41.38	Peak	155	203	P
8	5925.00	-6.72	71.71	64.99	68.20	-3.21	Peak	155	203	P
9	11570.00	1.44	50.79	52.23	54.00	-1.77	Average	281	143	P
10	11570.00	1.44	64.40	65.84	74.00	-8.16	Peak	281	143	P

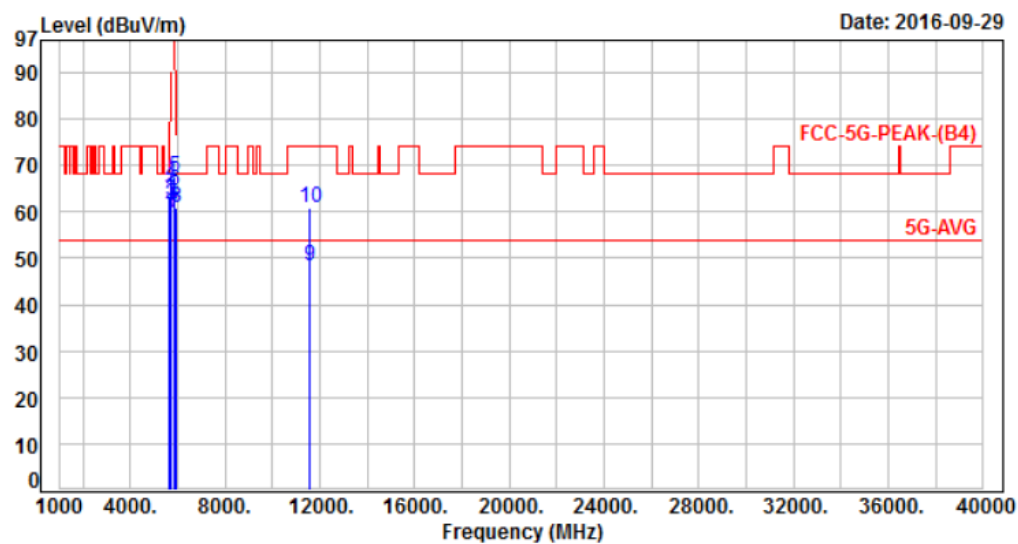
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 157	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.59	69.71	63.12	68.20	-5.08	Peak	262	139	P
2	5700.00	-6.60	68.07	61.47	105.20	-43.73	Peak	262	139	P
3	5720.00	-6.61	68.85	62.24	110.80	-48.56	Peak	262	139	P
4	5725.00	-6.61	72.48	65.87	122.20	-56.33	Peak	262	139	P
5	5850.00	-6.62	74.06	67.44	122.20	-54.76	Peak	155	203	P
6	5855.00	-6.62	71.07	64.45	110.80	-46.35	Peak	155	203	P
7	5875.00	-6.63	66.45	59.82	105.20	-45.38	Peak	155	203	P
8	5925.00	-6.64	67.63	60.99	68.20	-7.21	Peak	155	203	P
9	11570.00	1.76	46.45	48.21	54.00	-5.79	Average	321	140	P
10	11570.00	1.76	58.96	60.72	74.00	-13.28	Peak	321	140	P

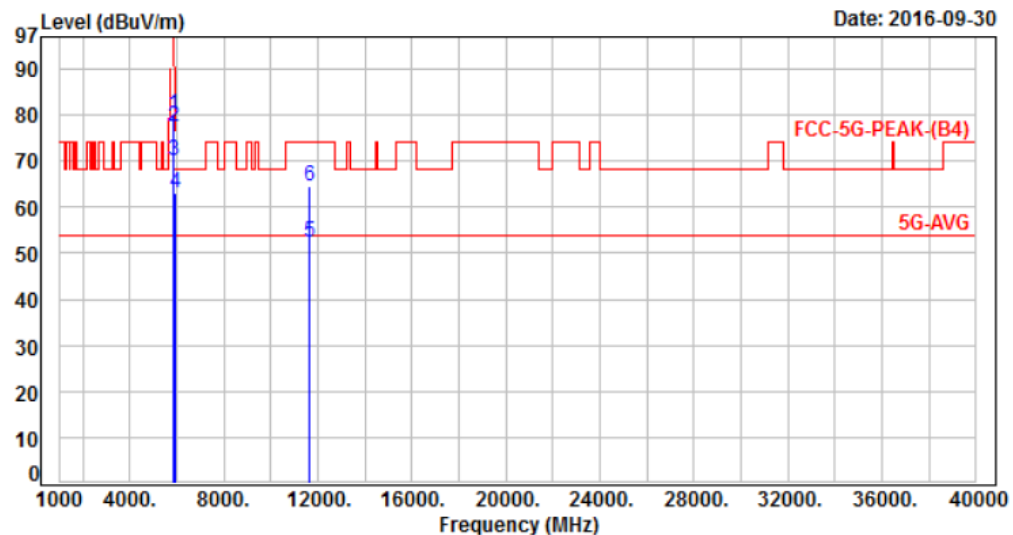
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 165	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-6.69	86.76	80.07	122.20	-42.13	Peak	149	302	P
2	5855.00	-6.69	84.22	77.53	110.80	-33.27	Peak	149	302	P
3	5875.00	-6.70	76.88	70.18	105.20	-35.02	Peak	149	302	P
4	5925.00	-6.72	69.73	63.01	68.20	-5.19	Peak	149	302	P
5	11650.00	1.53	50.70	52.23	54.00	-1.77	Average	390	144	P
6	11650.00	1.53	62.84	64.37	74.00	-9.63	Peak	390	144	P

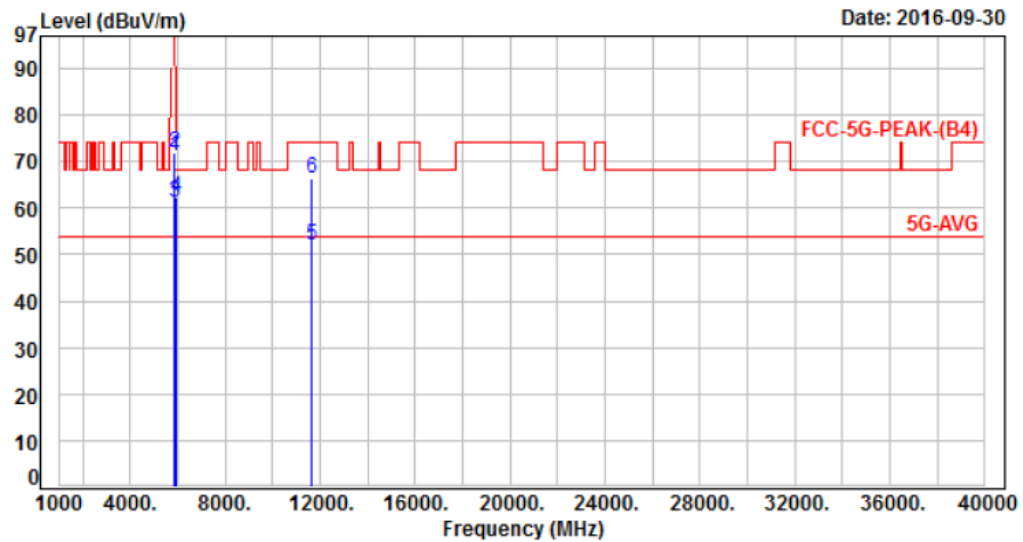
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 165	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-6.62	77.80	71.18	122.20	-51.02	Peak	168	252	P
2	5855.00	-6.62	78.49	71.87	110.80	-38.93	Peak	168	252	P
3	5875.00	-6.63	67.81	61.18	105.20	-44.02	Peak	168	252	P
4	5925.00	-6.64	68.92	62.28	68.20	-5.92	Peak	168	252	P
5	11650.00	1.86	50.08	51.94	54.00	-2.06	Average	400	79	P
6	11650.00	1.86	64.51	66.37	74.00	-7.63	Peak	400	79	P

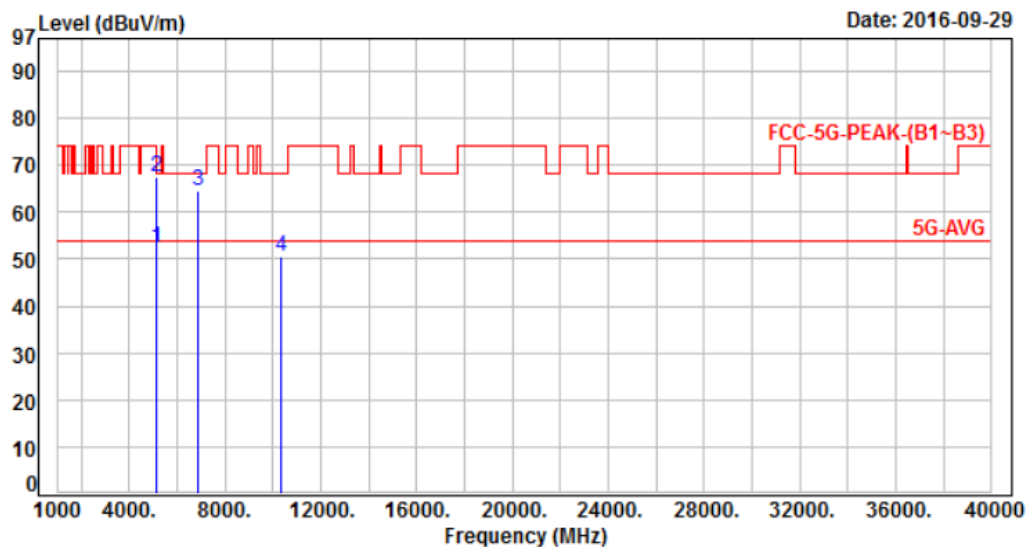
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 36	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	59.49	52.20	54.00	-1.80	Average	218	176	P
2	5150.00	-7.29	74.91	67.62	74.00	-6.38	Peak	218	176	P
3	6906.66	-5.68	70.30	64.62	68.20	-3.58	Peak	158	254	P
4	10360.00	0.23	50.43	50.66	68.20	-17.54	Peak	100	265	P

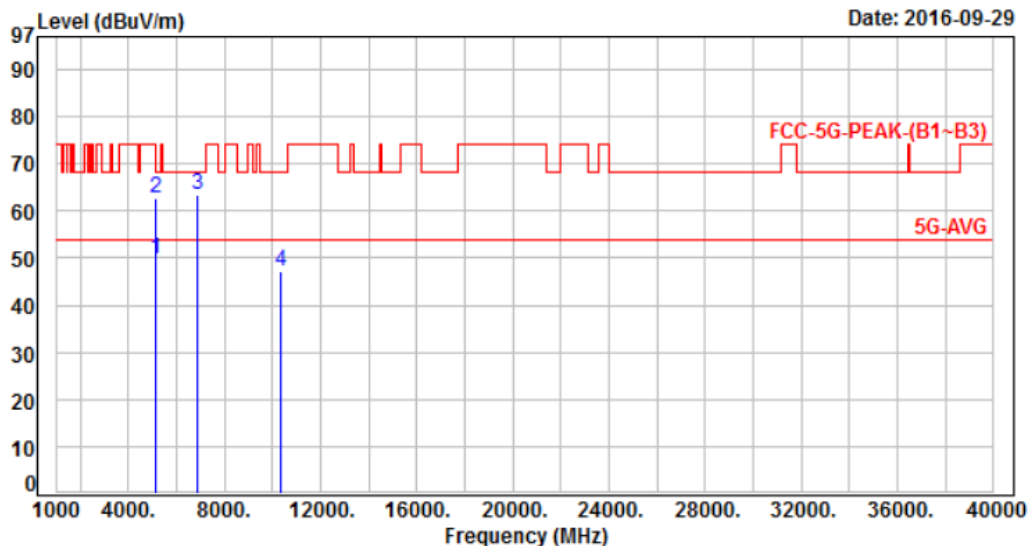
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 36	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	56.99	49.70	54.00	-4.30	Average	171	110	P
2	5150.00	-7.29	70.03	62.74	74.00	-11.26	Peak	171	110	P
3	6906.66	-5.68	69.01	63.33	68.20	-4.87	Peak	100	130	P
4	10360.00	0.23	47.10	47.33	68.20	-20.87	Peak	100	133	P

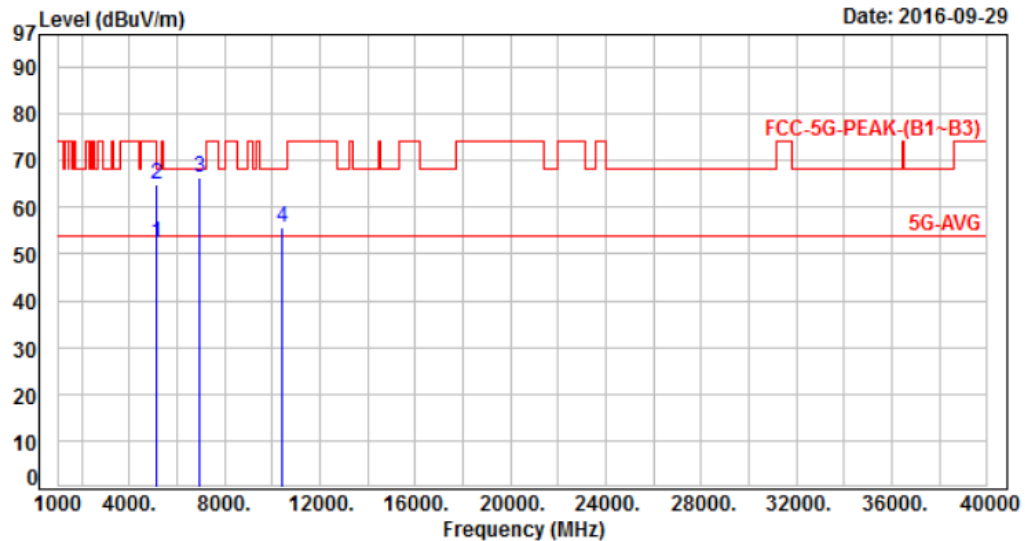
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 44	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	59.69	52.40	54.00	-1.60	Average	100	157	P
2	5150.00	-7.29	72.03	64.74	74.00	-9.26	Peak	100	157	P
3	6960.00	-5.68	71.97	66.29	68.20	-1.91	Peak	248	102	P
4	10440.00	0.29	55.26	55.55	68.20	-12.65	Peak	212	222	P

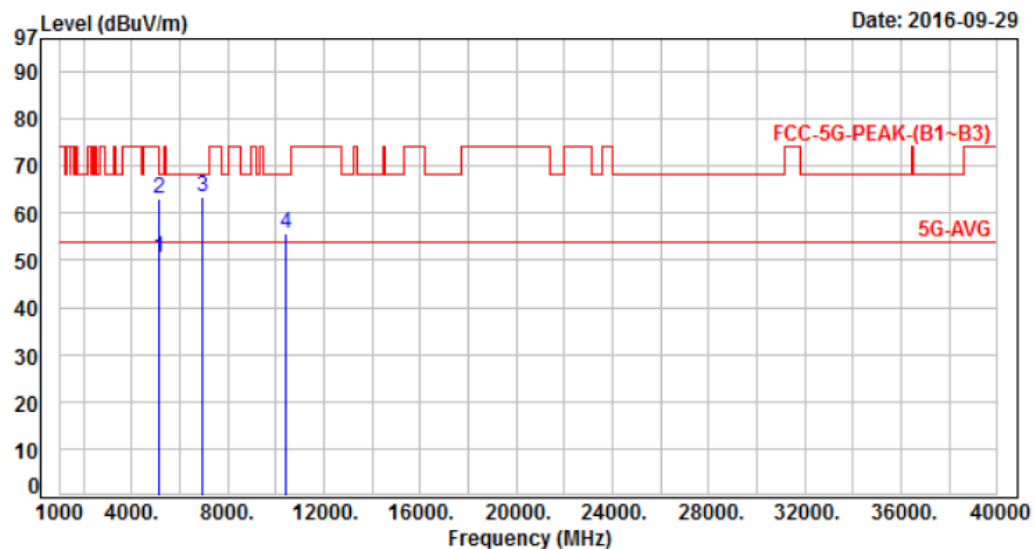
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 44	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	57.99	50.70	54.00	-3.30	Average	100	271	P
2	5150.00	-7.29	70.48	63.19	74.00	-10.81	Peak	100	271	P
3	6960.00	-5.68	68.98	63.30	68.20	-4.90	Peak	100	136	P
4	10440.00	0.29	55.51	55.80	68.20	-12.40	Peak	394	91	P

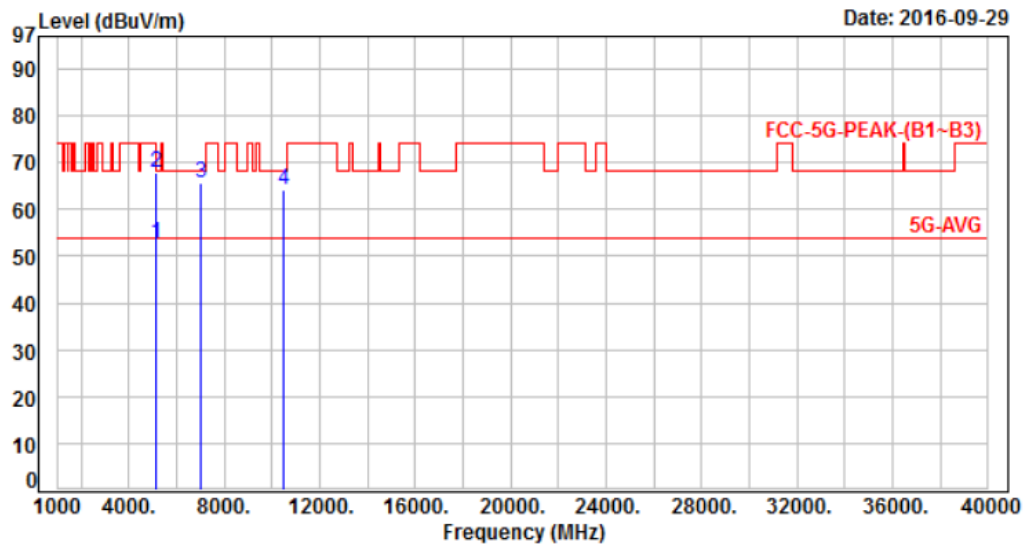
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 48	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	59.98	52.69	54.00	-1.31	Average	339	285	P
2	5150.00	-7.29	75.11	67.82	74.00	-6.18	Peak	339	285	P
3	6986.66	-5.69	71.22	65.53	68.20	-2.67	Peak	195	311	P
4	10480.00	0.32	63.76	64.08	68.20	-4.12	Peak	255	167	P

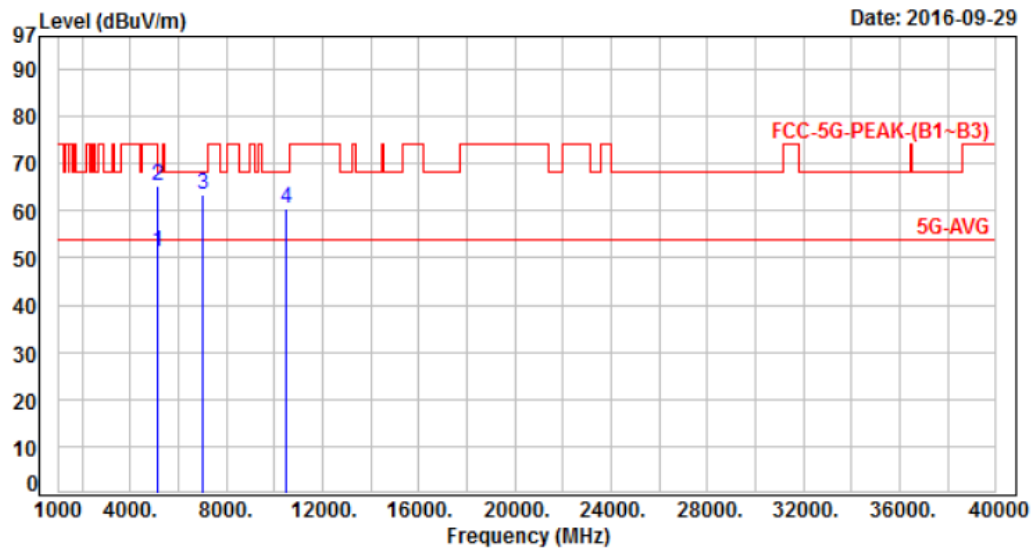
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 48	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	58.41	51.12	54.00	-2.88	Average	100	279	P
2	5150.00	-7.29	72.47	65.18	74.00	-8.82	Peak	100	279	P
3	6986.66	-5.69	68.99	63.30	68.20	-4.90	Peak	100	132	P
4	10480.00	0.32	60.15	60.47	68.20	-7.73	Peak	231	316	P

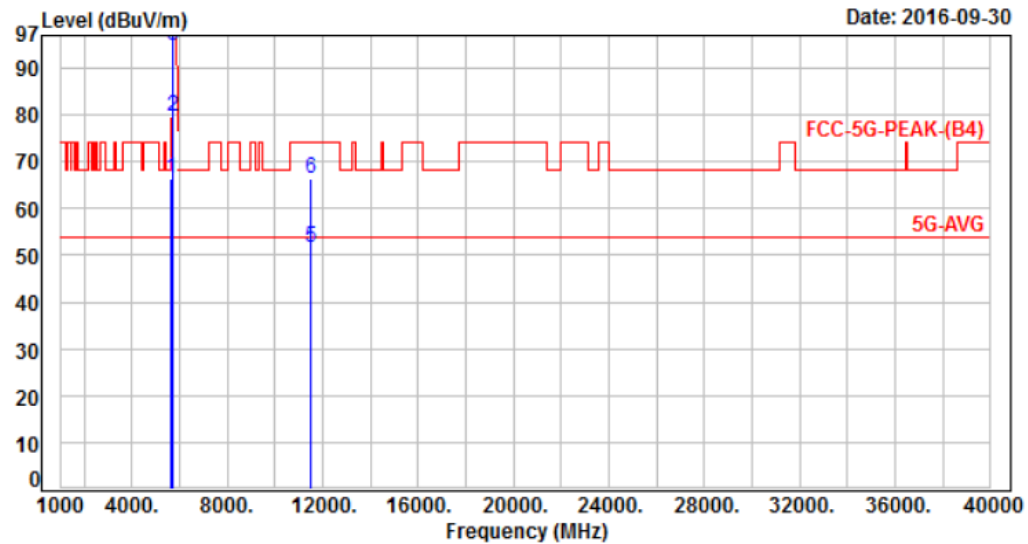
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 149	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.62	73.15	66.53	68.20	-1.67	Peak	192	255	P
2	5700.00	-6.64	86.31	79.67	105.20	-25.53	Peak	192	255	P
3	5720.00	-6.65	101.55	94.90	110.80	-15.90	Peak	192	255	P
4	5725.00	-6.65	110.34	103.69	122.20	-18.51	Peak	192	255	P
5	11490.00	1.37	50.27	51.64	54.00	-2.36	Average	400	138	P
6	11490.00	1.37	64.84	66.21	74.00	-7.79	Peak	400	138	P

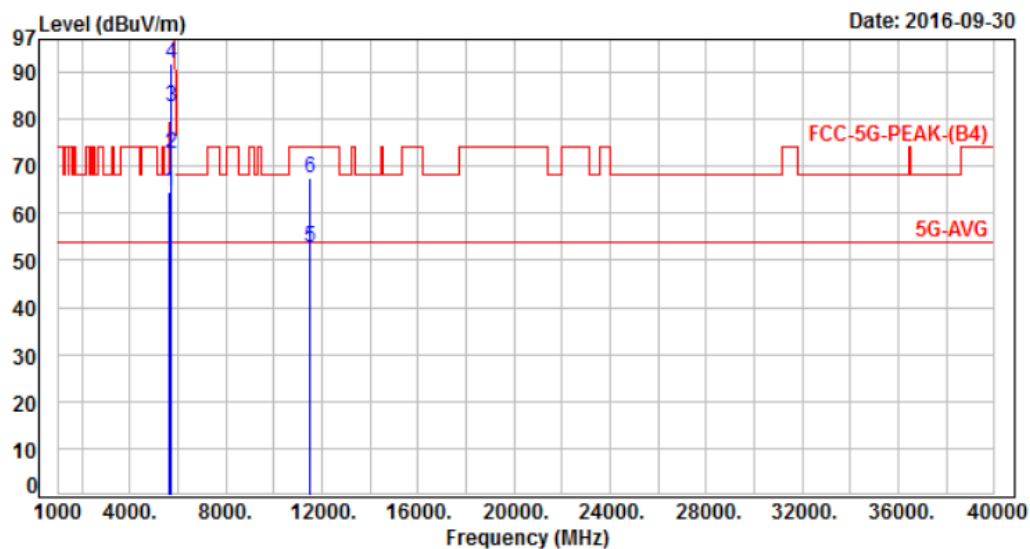
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 149	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.59	71.31	64.72	68.20	-3.48	Peak	322	164	P
2	5700.00	-6.60	79.25	72.65	105.20	-32.55	Peak	322	164	P
3	5720.00	-6.61	89.36	82.75	110.80	-28.05	Peak	322	164	P
4	5725.00	-6.61	98.46	91.85	122.20	-30.35	Peak	322	164	P
5	11490.00	1.65	50.97	52.62	54.00	-1.38	Average	400	77	P
6	11490.00	1.65	65.96	67.61	74.00	-6.39	Peak	400	77	P

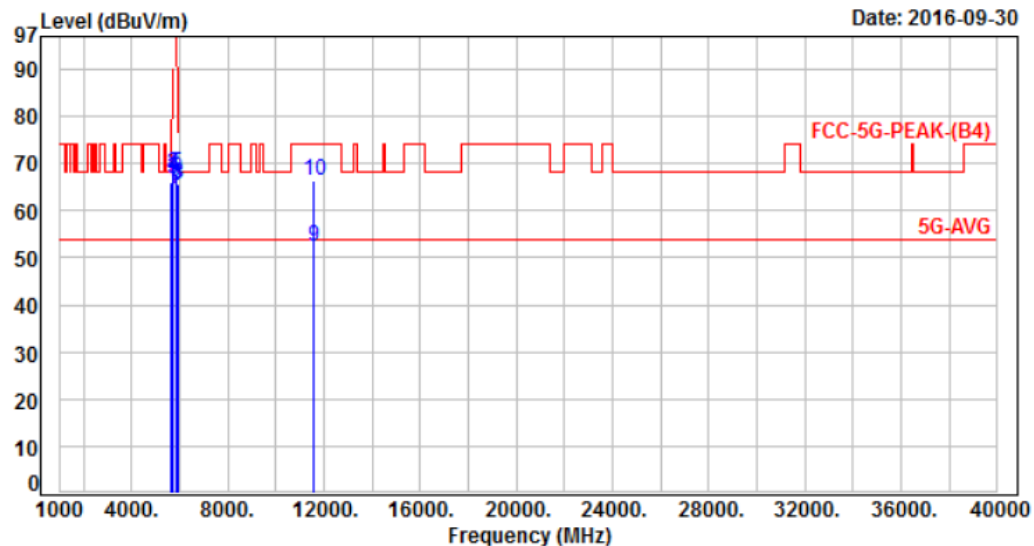
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 157	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.62	72.69	66.07	68.20	-2.13	Peak	255	148	P
2	5700.00	-6.64	74.39	67.75	105.20	-37.45	Peak	255	148	P
3	5720.00	-6.65	73.50	66.85	110.80	-43.95	Peak	255	148	P
4	5725.00	-6.65	74.31	67.66	122.20	-54.54	Peak	255	148	P
5	5850.00	-6.69	74.62	67.93	122.20	-54.27	Peak	151	198	P
6	5855.00	-6.69	71.98	65.29	110.80	-45.51	Peak	151	198	P
7	5875.00	-6.70	71.13	64.43	105.20	-40.77	Peak	151	198	P
8	5925.00	-6.72	72.24	65.52	68.20	-2.68	Peak	151	198	P
9	11570.00	1.44	50.91	52.35	54.00	-1.65	Average	283	145	P
10	11570.00	1.44	65.12	66.56	74.00	-7.44	Peak	283	145	P

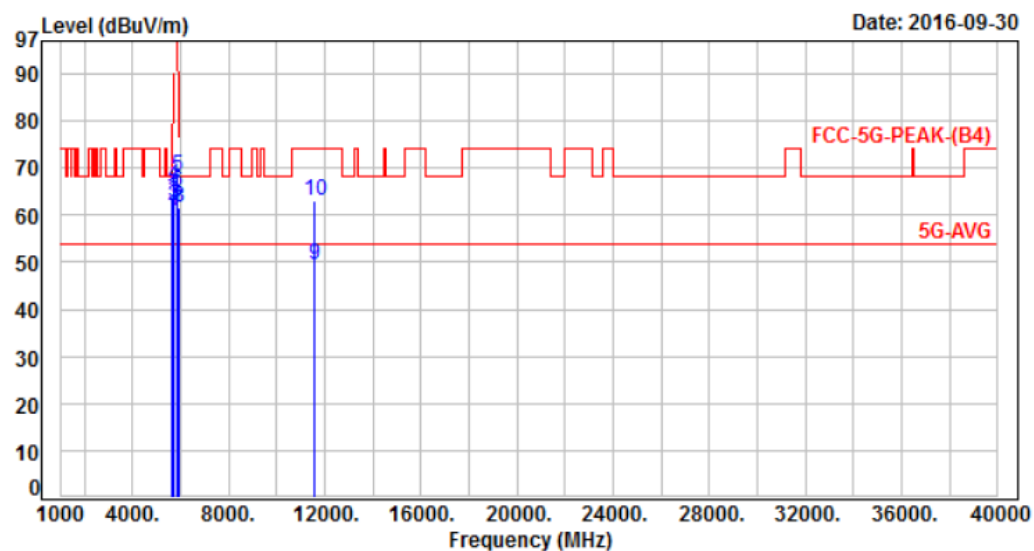
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 157	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.59	70.23	63.64	68.20	-4.56	Peak	252	149	P
2	5700.00	-6.60	68.47	61.87	105.20	-43.33	Peak	252	149	P
3	5720.00	-6.61	69.36	62.75	110.80	-48.05	Peak	252	149	P
4	5725.00	-6.61	73.13	66.52	122.20	-55.68	Peak	252	149	P
5	5850.00	-6.62	74.69	68.07	122.20	-54.13	Peak	162	214	P
6	5855.00	-6.62	71.44	64.82	110.80	-45.98	Peak	162	214	P
7	5875.00	-6.63	67.31	60.68	105.20	-44.52	Peak	162	214	P
8	5925.00	-6.64	68.23	61.59	68.20	-6.61	Peak	162	214	P
9	11570.00	1.76	47.51	49.27	54.00	-4.73	Average	316	218	P
10	11570.00	1.76	61.22	62.98	74.00	-11.02	Peak	316	218	P

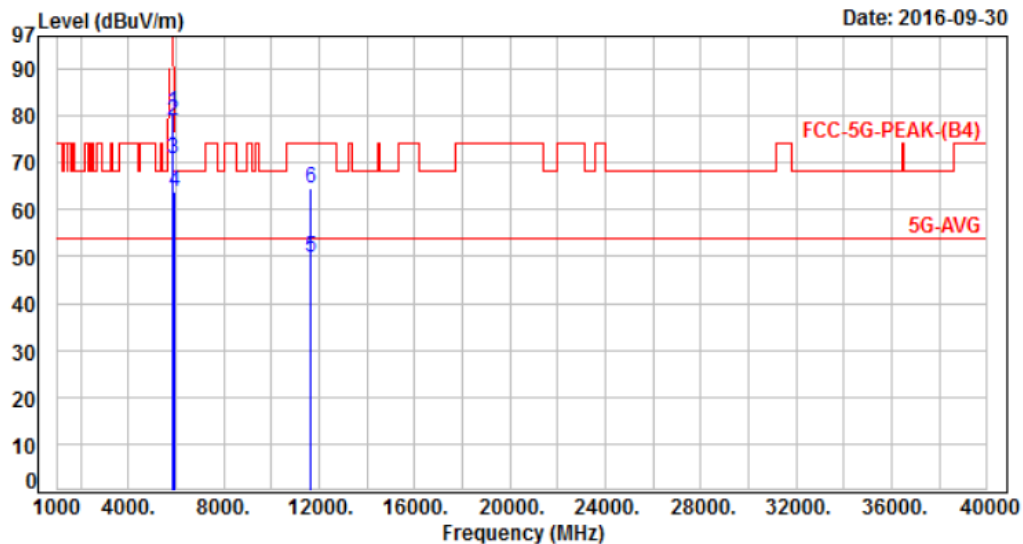
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 165	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-6.69	87.31	80.62	122.20	-41.58	Peak	150	303	P
2	5855.00	-6.69	85.62	78.93	110.80	-31.87	Peak	150	303	P
3	5875.00	-6.70	77.58	70.88	105.20	-34.32	Peak	150	303	P
4	5925.00	-6.72	70.55	63.83	68.20	-4.37	Peak	150	303	P
5	11650.00	1.53	48.32	49.85	54.00	-4.15	Average	308	219	P
6	11650.00	1.53	62.89	64.42	74.00	-9.58	Peak	308	219	P

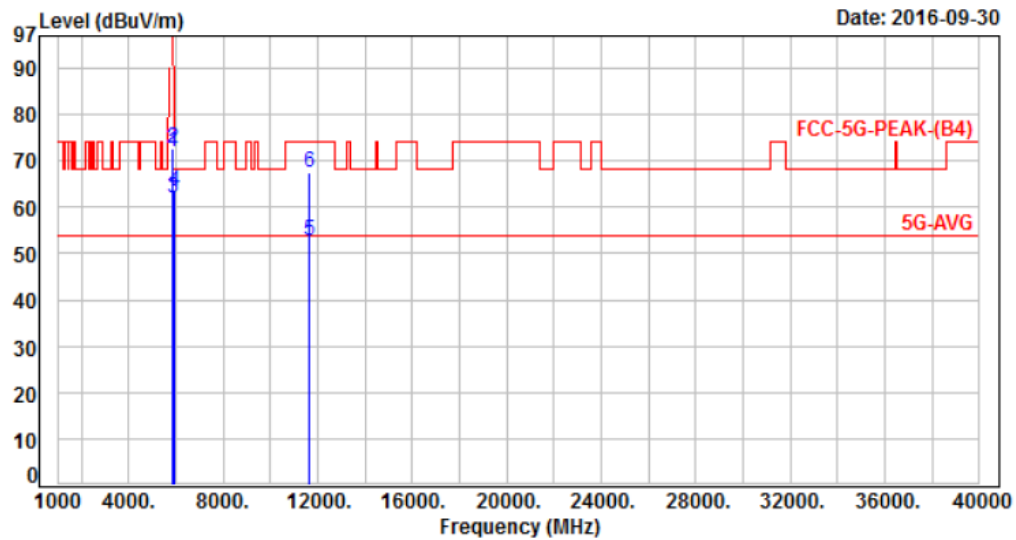
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 165	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-6.62	78.60	71.98	122.20	-50.22	Peak	172	260	P
2	5855.00	-6.62	79.21	72.59	110.80	-38.21	Peak	172	260	P
3	5875.00	-6.63	68.45	61.82	105.20	-43.38	Peak	172	260	P
4	5925.00	-6.64	70.03	63.39	68.20	-4.81	Peak	172	260	P
5	11650.00	1.86	50.79	52.65	54.00	-1.35	Average	400	78	P
6	11650.00	1.86	65.51	67.37	74.00	-6.63	Peak	400	78	P

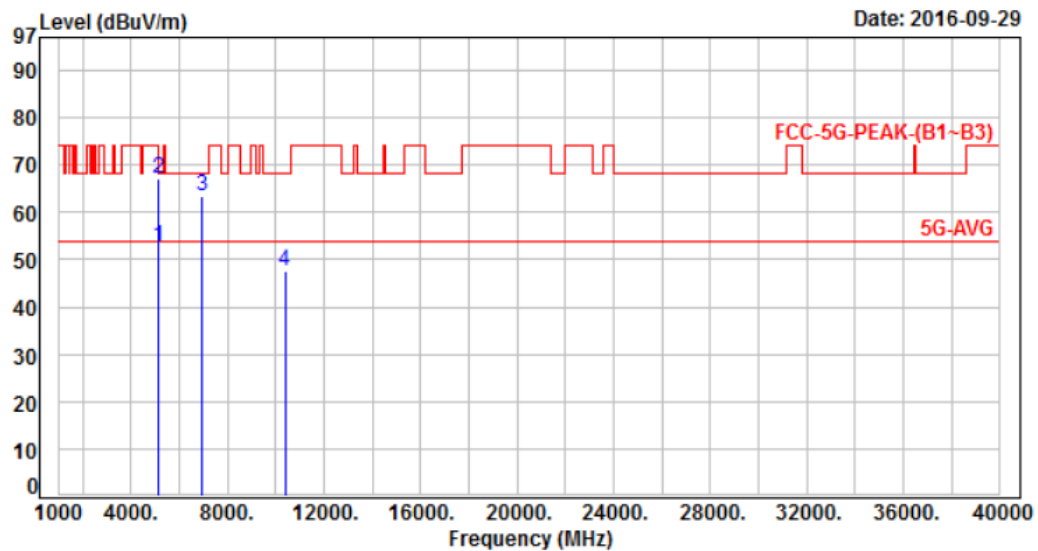
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 5	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 38	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	59.98	52.69	54.00	-1.31	Average	100	275	P
2	5150.00	-7.29	74.37	67.08	74.00	-6.92	Peak	100	275	P
3	6920.00	-5.67	69.14	63.47	68.20	-4.73	Peak	176	255	P
4	10380.00	0.24	47.27	47.51	68.20	-20.69	Peak	100	260	P

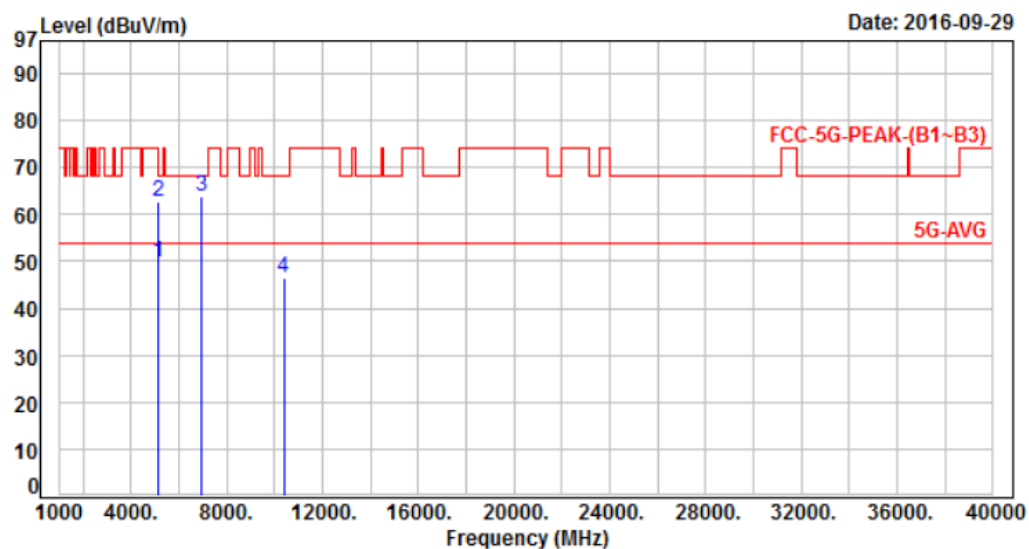
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 38	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	57.12	49.83	54.00	-4.17	Average	100	146	P
2	5150.00	-7.29	70.01	62.72	74.00	-11.28	Peak	100	146	P
3	6920.00	-5.67	69.34	63.67	68.20	-4.53	Peak	100	0	P
4	10380.00	0.24	46.39	46.63	68.20	-21.57	Peak	100	130	P

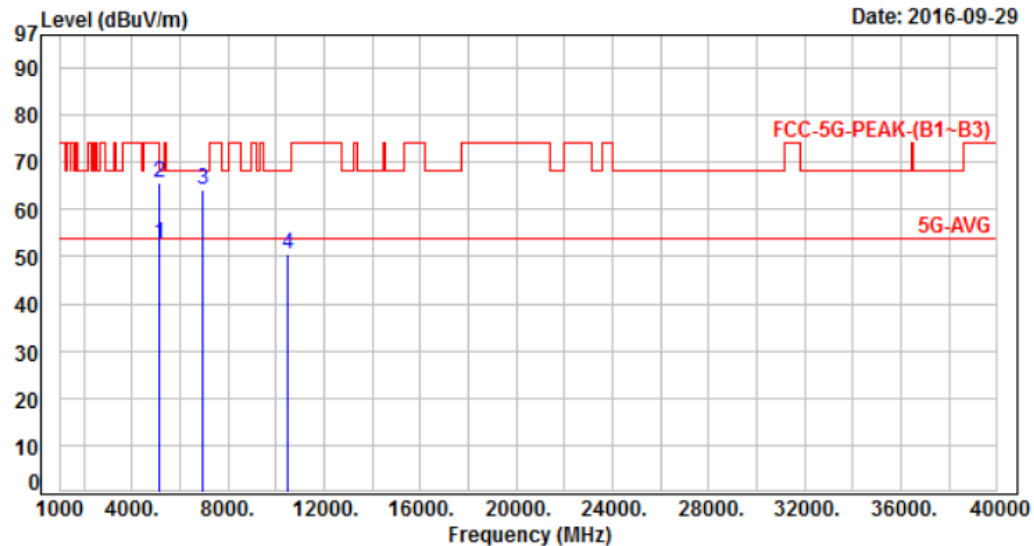
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 5	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 46	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	59.85	52.56	54.00	-1.44	Average	100	157	P
2	5150.00	-7.29	73.05	65.76	74.00	-8.24	Peak	100	157	P
3	6973.33	-5.67	69.76	64.09	68.20	-4.11	Peak	159	257	P
4	10460.00	0.31	50.35	50.66	68.20	-17.54	Peak	400	277	P

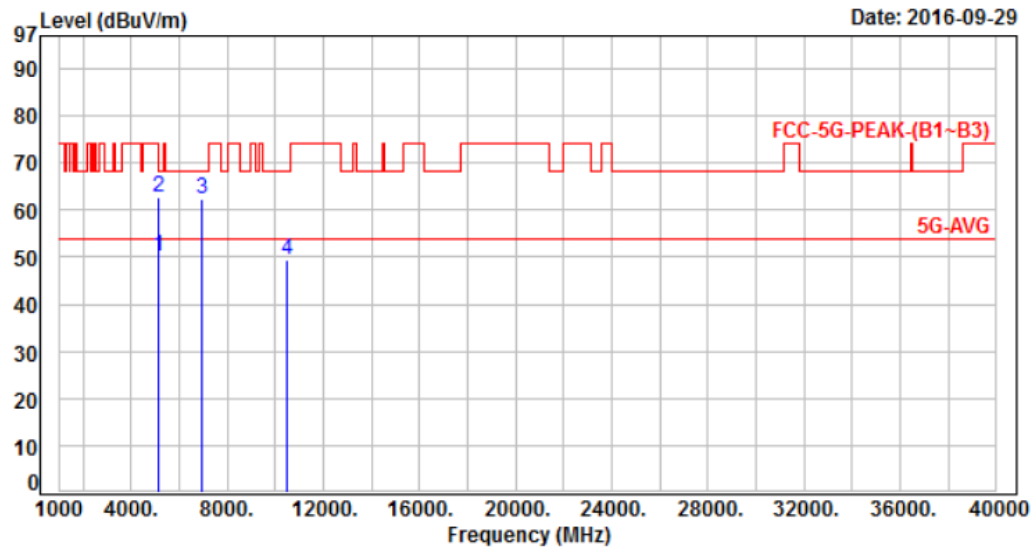
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 46	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	57.44	50.15	54.00	-3.85	Average	100	113	P
2	5150.00	-7.29	69.83	62.54	74.00	-11.46	Peak	100	113	P
3	6973.33	-5.67	68.05	62.38	68.20	-5.82	Peak	100	141	P
4	10460.00	0.31	49.09	49.40	68.20	-18.80	Peak	393	98	P

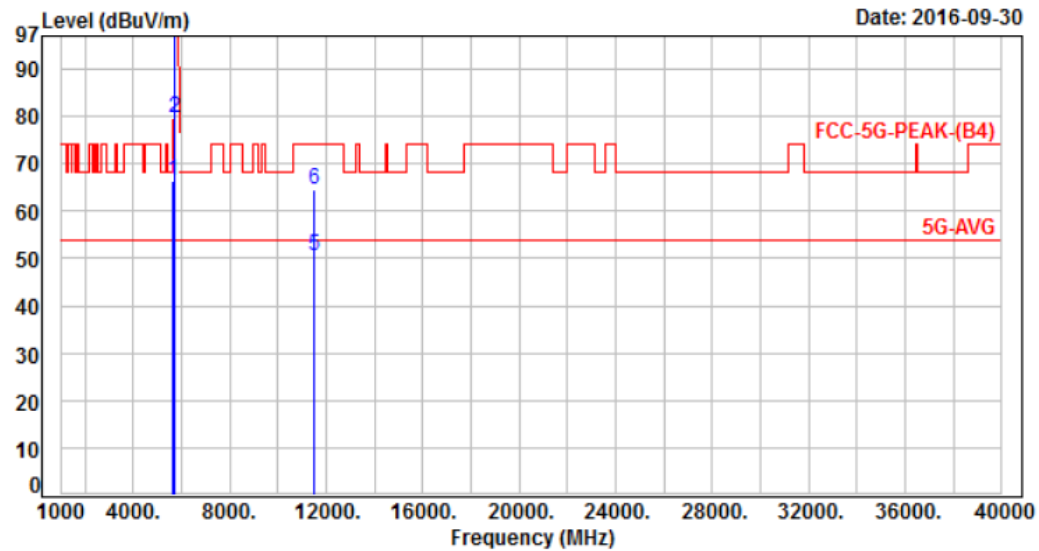
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 5	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 151	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.59	73.03	66.44	68.20	-1.76	Peak	165	242	P
2	5700.00	-6.60	86.09	79.49	105.20	-25.71	Peak	165	242	P
3	5720.00	-6.61	102.29	95.68	110.80	-15.12	Peak	165	242	P
4	5720.00	-6.61	104.04	97.43	110.80	-13.37	Peak	165	242	P
5	11510.00	1.68	48.96	50.64	54.00	-3.36	Average	349	263	P
6	11510.00	1.68	62.85	64.53	74.00	-9.47	Peak	349	263	P

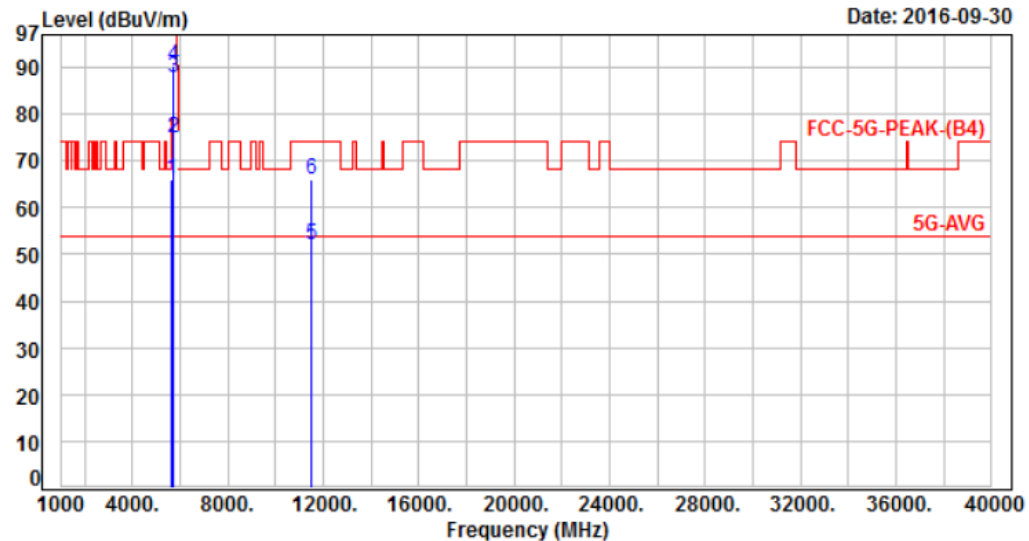
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 151	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.59	72.67	66.08	68.20	-2.12	Peak	149	248	P
2	5700.00	-6.60	81.49	74.89	105.20	-30.31	Peak	149	248	P
3	5720.00	-6.61	94.52	87.91	110.80	-22.89	Peak	149	248	P
4	5720.00	-6.61	96.97	90.36	110.80	-20.44	Peak	149	248	P
5	11510.00	1.68	50.34	52.02	54.00	-1.98	Average	399	80	P
6	11510.00	1.68	64.47	66.15	74.00	-7.85	Peak	399	80	P

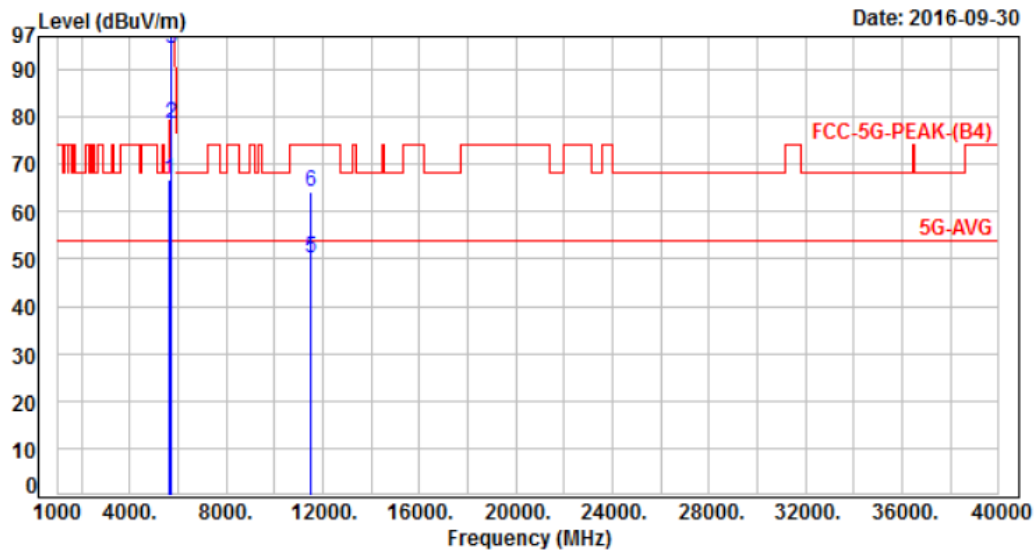
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 5	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 159	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.62	73.29	66.67	68.20	-1.53	Peak	186	242	P
2	5700.00	-6.64	85.29	78.65	105.20	-26.55	Peak	186	242	P
3	5720.00	-6.65	100.91	94.26	110.80	-16.54	Peak	186	242	P
4	5725.00	-6.65	109.26	102.61	122.20	-19.59	Peak	186	242	P
5	11490.00	1.37	48.82	50.19	54.00	-3.81	Average	388	143	P
6	11490.00	1.37	62.68	64.05	74.00	-9.95	Peak	388	143	P

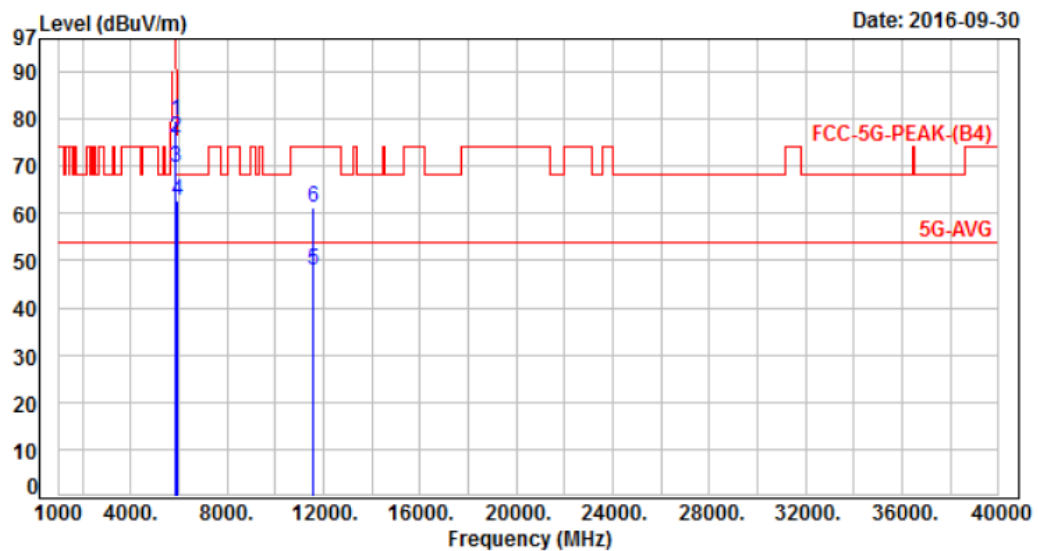
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 159	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-6.62	86.45	79.83	122.20	-42.37	Peak	241	302	P
2	5855.00	-6.62	82.47	75.85	110.80	-34.95	Peak	241	302	P
3	5875.00	-6.63	76.35	69.72	105.20	-35.48	Peak	241	302	P
4	5925.00	-6.64	69.30	62.66	68.20	-5.54	Peak	241	302	P
5	11590.00	1.78	46.34	48.12	54.00	-5.88	Average	347	121	P
6	11590.00	1.78	59.41	61.19	74.00	-12.81	Peak	347	121	P

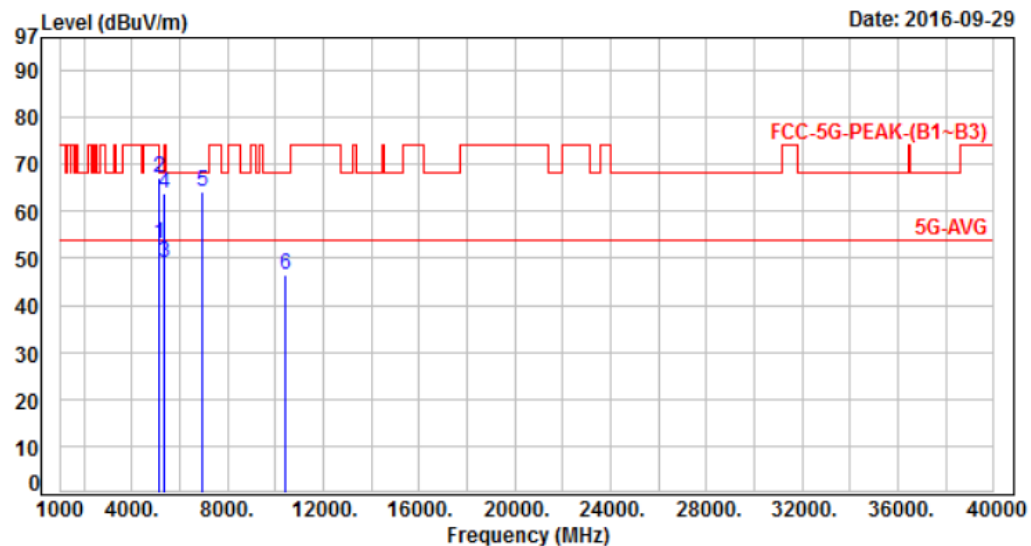
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 6	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 42	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	60.23	52.94	54.00	-1.06	Average	235	232	P
2	5150.00	-7.29	74.25	66.96	74.00	-7.04	Peak	235	232	P
3	5350.00	-6.88	55.87	48.99	54.00	-5.01	Average	142	106	P
4	5350.00	-6.88	70.57	63.69	74.00	-10.31	Peak	142	106	P
5	6946.66	-5.68	69.68	64.00	68.20	-4.20	Peak	122	255	P
6	10420.00	0.28	46.18	46.46	68.20	-21.74	Peak	100	265	P

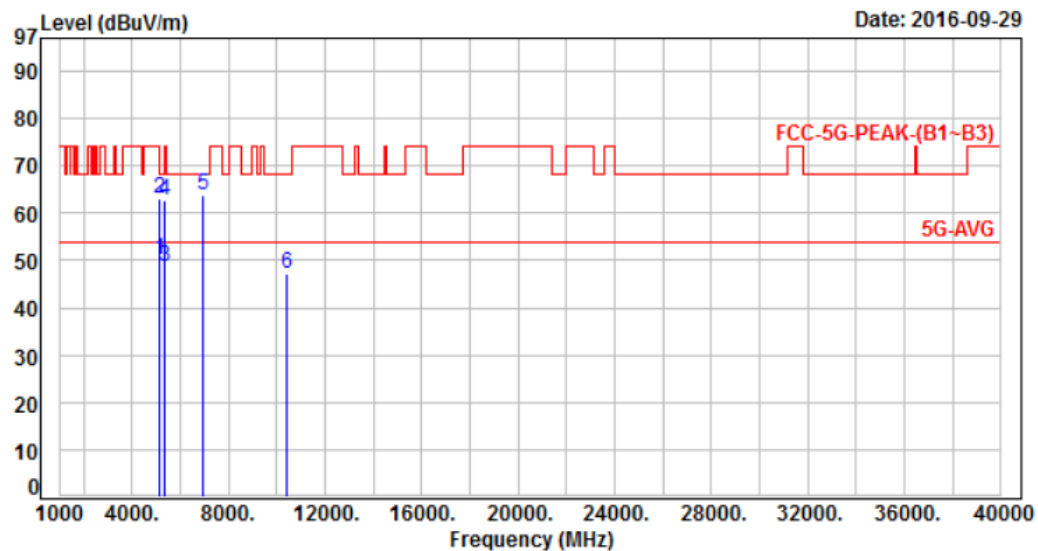
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6	Temperature	: 25°C
Test Date	: Sep. 29, 2016	Humidity	: 60%
Memo	: CH 42	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-7.29	57.37	50.08	54.00	-3.92	Average	100	277	P
2	5150.00	-7.29	70.41	63.12	74.00	-10.88	Peak	100	277	P
3	5350.00	-6.88	55.48	48.60	54.00	-5.40	Average	168	242	P
4	5350.00	-6.88	69.46	62.58	74.00	-11.42	Peak	168	242	P
5	6946.66	-5.68	69.50	63.82	68.20	-4.38	Peak	100	120	P
6	10420.00	0.28	47.09	47.37	68.20	-20.83	Peak	100	135	P

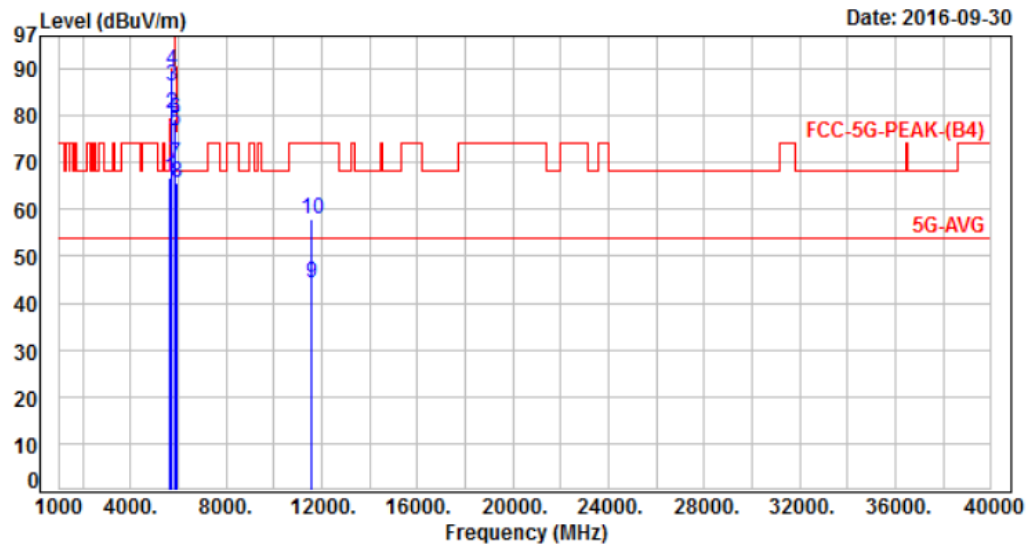
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 6	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 155	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.59	73.24	66.65	68.20	-1.55	Peak	149	256	P
2	5700.00	-6.60	87.02	80.42	105.20	-24.78	Peak	149	256	P
3	5720.00	-6.61	93.01	86.40	110.80	-24.40	Peak	149	256	P
4	5725.00	-6.61	96.15	89.54	122.20	-32.66	Peak	149	256	P
5	5850.00	-6.62	83.41	76.79	122.20	-45.41	Peak	242	286	P
6	5855.00	-6.62	85.77	79.15	110.80	-31.65	Peak	242	286	P
7	5875.00	-6.63	76.40	69.77	105.20	-35.43	Peak	242	286	P
8	5925.00	-6.64	72.36	65.72	68.20	-2.48	Peak	242	286	P
9	11550.00	1.73	42.57	44.30	54.00	-9.70	Average	382	263	P
10	11550.00	1.73	56.22	57.95	74.00	-16.05	Peak	382	263	P

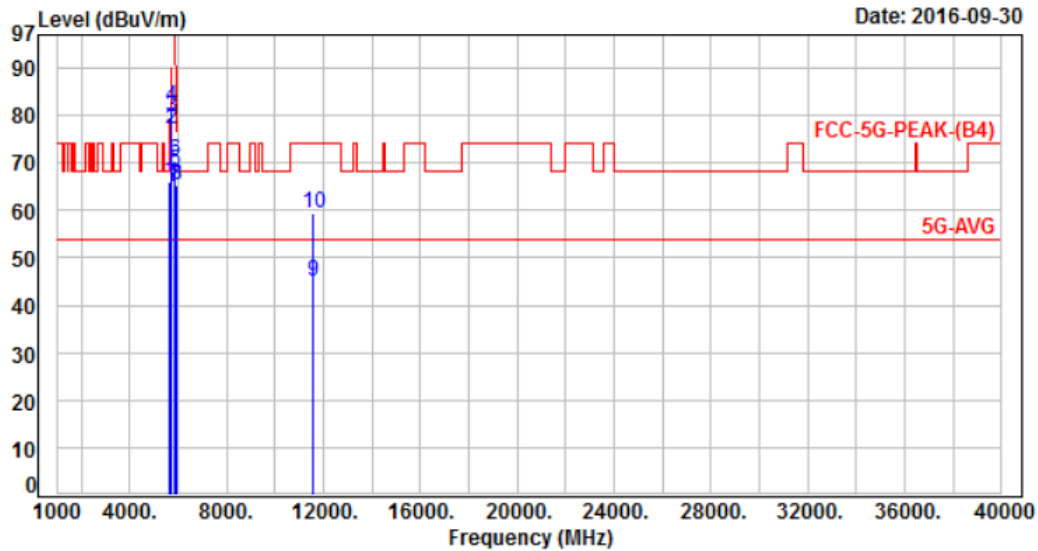
Note: Level = Reading + Factor

Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6	Temperature	: 25°C
Test Date	: Sep. 30, 2016	Humidity	: 60%
Memo	: CH 155	Atmospheric Pressure	: 1028 hPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.59	72.53	65.94	68.20	-2.26	Peak	144	202	P
2	5700.00	-6.60	83.69	77.09	105.20	-28.11	Peak	144	202	P
3	5720.00	-6.61	86.32	79.71	110.80	-31.09	Peak	144	202	P
4	5725.00	-6.61	88.63	82.02	122.20	-40.18	Peak	144	202	P
5	5850.00	-6.62	75.01	68.39	122.20	-53.81	Peak	184	266	P
6	5855.00	-6.62	76.95	70.33	110.80	-40.47	Peak	184	266	P
7	5875.00	-6.63	71.62	64.99	105.20	-40.21	Peak	184	266	P
8	5925.00	-6.64	72.02	65.38	68.20	-2.82	Peak	184	266	P
9	11550.00	1.73	43.10	44.83	54.00	-9.17	Average	400	75	P
10	11550.00	1.73	57.52	59.25	74.00	-14.75	Peak	400	75	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