



FCC RADIO TEST REPORT

Applicant : Cameo Communications Inc.
Address : 5F, No. 158, Ruihu St., Neihsu 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. 30, 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
TEF1608215	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 C §15.247

KDB558074

KDB662911

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. AC Power Line Conducted Emission	Pass
15.209 15.205	. Radiated Spurious Emission	Pass
15.247(d)	. Conducted Spurious Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak and Average Output Power	Pass
15.247(e)	. Power Spectral Density	Pass

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



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

802.11b, 802.11g, 802.11n HT 20, 802.11ac VHT 20 (2412MHz~2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	*11	2462
*06	2437	---	---

802.11n HT40, 802.11ac VHT40 (2422MHz~2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
*03	2422	*09	2452
04	2427	---	---
05	2432	---	---
*06	2437	---	---

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:
 - Mode 1: 802.11b (1Mbps)
 - Mode 2: 802.11g (6Mbps)
 - Mode 3: 802.11n HT20 (6.5Mbps)
 - Mode 4: 802.11n HT40 (13.5Mbps)
 - Mode 5: 802.11ac VHT20 (6.5Mbps)
 - Mode 6: 802.11ac VHT40 (13.5Mbps)
- For conducted test, "Test Mode 2" generated the worst case, it was reported as the final data.
- For radiated test (below 1GHz), "Test Mode 2" generated the worst case, it was reported as the final data.
- For radiated test (above 1GHz), "Test Mode 1 、 2 、 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	CerpPASS 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 25,000MHz	
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 15.247 (b), 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} = 2dBi

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

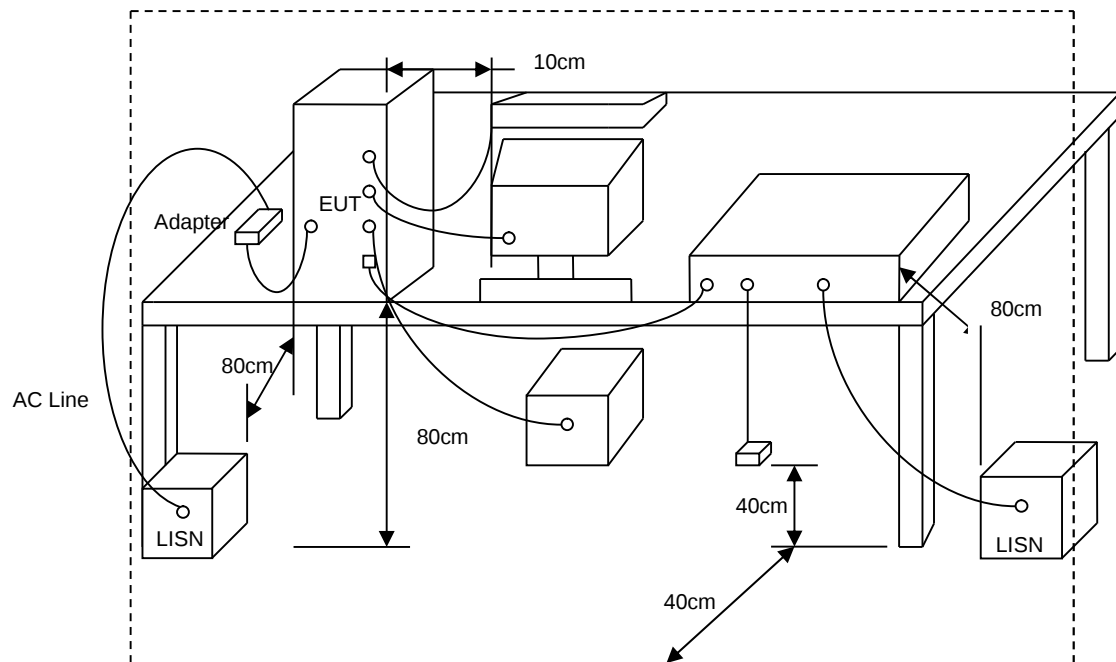
*Decreases with the logarithm of the frequency.

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.



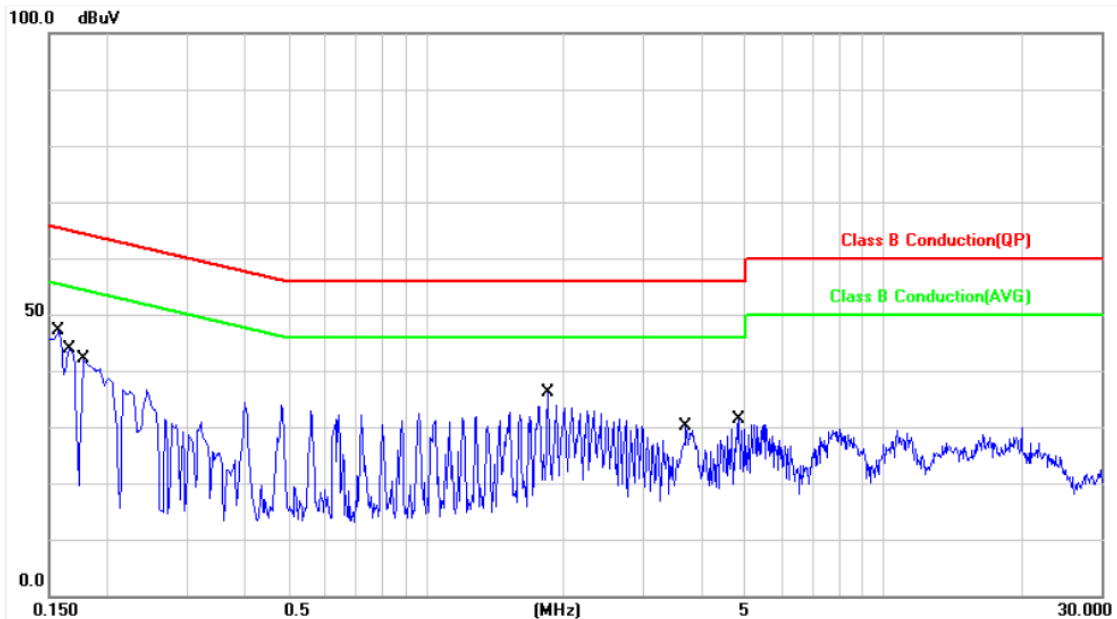
5.3 Typical Test Setup





5.4 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: Mode 2	Temperature	: 20 °C
Test date	: Oct. 07, 2016	Humidity	: 57 %
Memo	: CH 06	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	29.53	39.51	65.56	-26.05	QP	P
2	0.1580	9.98	23.77	33.75	55.56	-21.81	AVG	P
3	0.1660	9.98	27.61	37.59	65.15	-27.56	QP	P
4	0.1660	9.98	19.90	29.88	55.15	-25.27	AVG	P
5	0.1780	9.97	25.65	35.62	64.57	-28.95	QP	P
6	0.1780	9.97	2.40	12.37	54.57	-42.20	AVG	P
7	1.8540	10.06	24.84	34.90	56.00	-21.10	QP	P
8	1.8540	10.06	22.66	32.72	46.00	-13.28	AVG	P
9	3.7060	10.14	16.16	26.30	56.00	-29.70	QP	P
10	3.7060	10.14	9.85	19.99	46.00	-26.01	AVG	P
11	4.8260	10.18	14.67	24.85	56.00	-31.15	QP	P
12	4.8260	10.18	10.14	20.32	46.00	-25.68	AVG	P

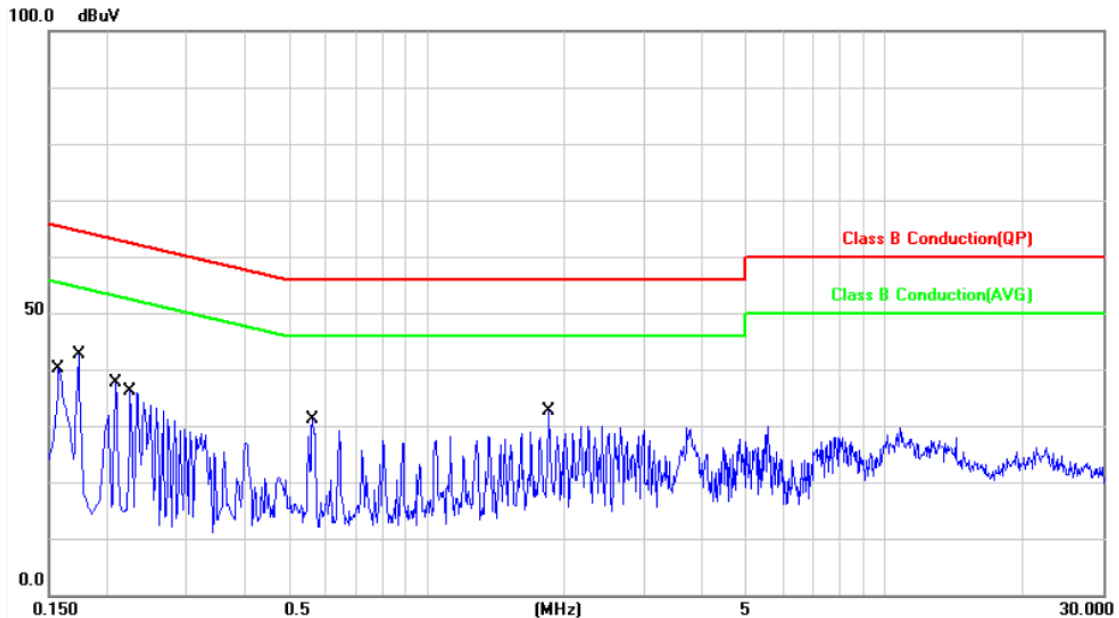
Note: Level = Reading + Factor

Margin = Level – Limit

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



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: Mode 2	Temperature	: 20 °C
Test date	: Oct. 07, 2016	Humidity	: 57 %
Memo	: CH 06	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	28.34	38.32	65.56	-27.24	QP	P
2	0.1580	9.98	17.23	27.21	55.56	-28.35	AVG	P
3	0.1740	9.98	25.89	35.87	64.76	-28.89	QP	P
4	0.1740	9.98	2.76	12.74	54.76	-42.02	AVG	P
5	0.2100	9.98	21.39	31.37	63.20	-31.83	QP	P
6	0.2100	9.98	0.43	10.41	53.20	-42.79	AVG	P
7	0.2260	9.97	19.71	29.68	62.59	-32.91	QP	P
8	0.2260	9.97	0.34	10.31	52.59	-42.28	AVG	P
9	0.5660	9.95	20.01	29.96	56.00	-26.04	QP	P
10	0.5660	9.95	19.21	29.16	46.00	-16.84	AVG	P
11	1.8540	10.03	19.77	29.80	56.00	-26.20	QP	P
12	1.8540	10.03	15.44	25.47	46.00	-20.53	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit

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



6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

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

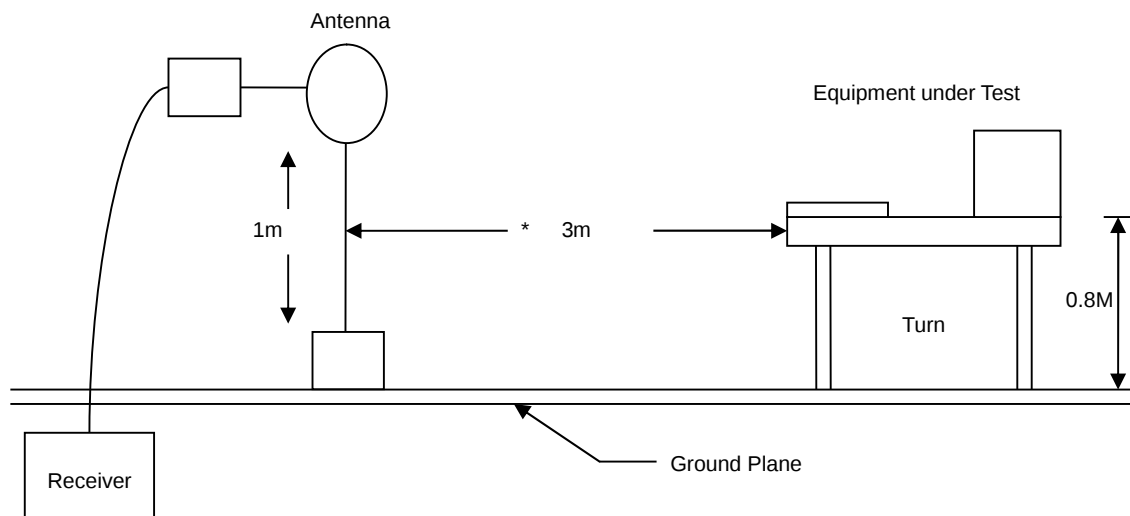
6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 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.
- 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.
- "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

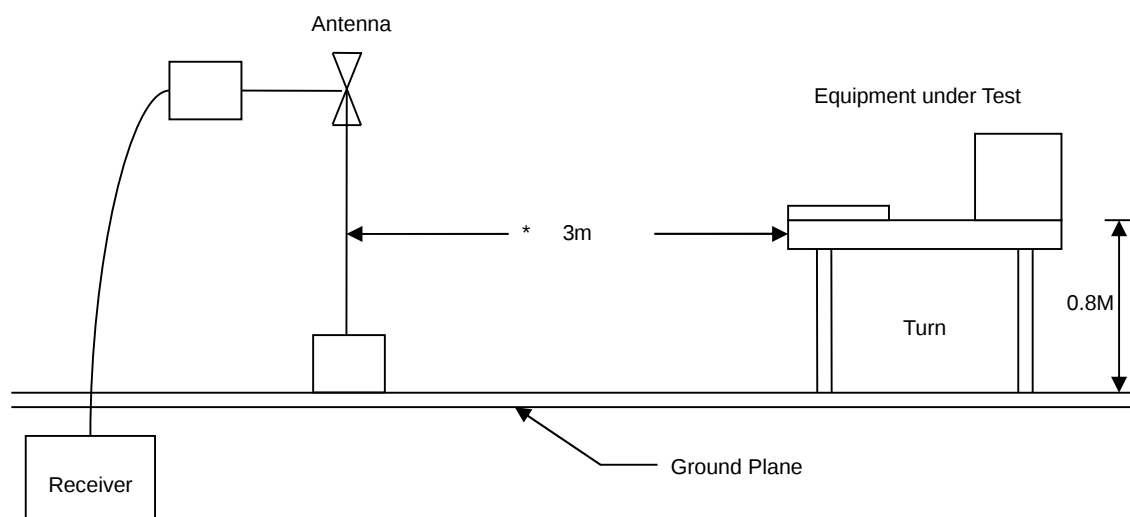


6.3 Typical Test Setup

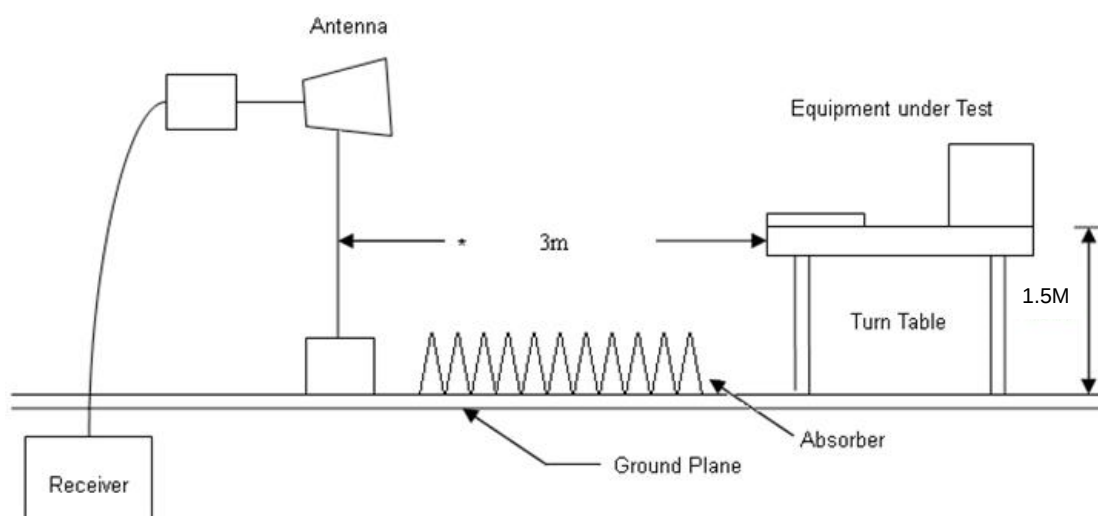
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



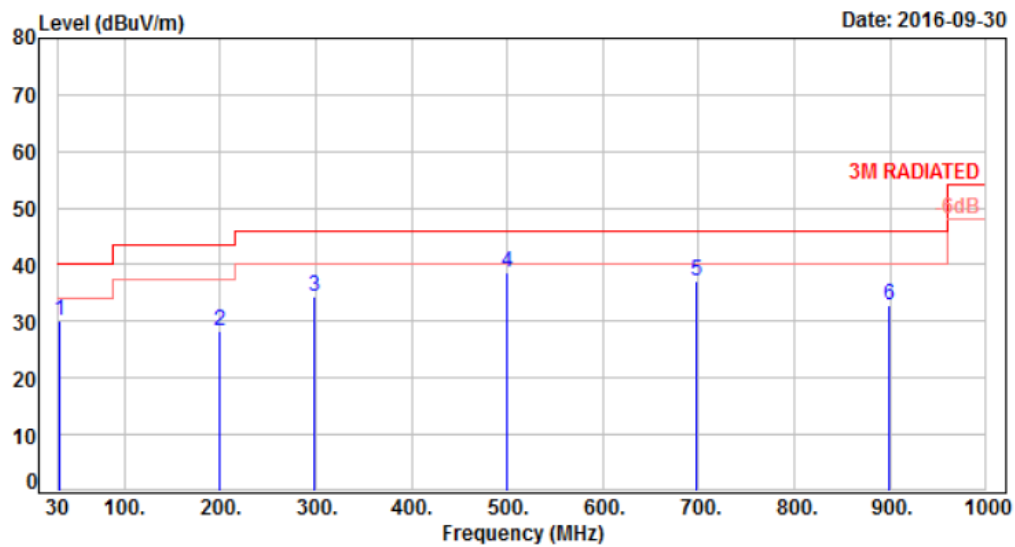


6.4 Test Result and Data (9KHz ~ 30MHz)

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 2	Temperature	: 24 °C
Test Date	: Sep. 30, 2016	Humidity	: 63 %
Memo	: CH 01	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	31.94	-10.66	40.63	29.97	40.00	-10.03	Peak	400	0	P
2	198.78	-12.50	40.71	28.21	43.50	-15.29	Peak	400	0	P
3	297.72	-9.12	43.53	34.41	46.00	-11.59	Peak	400	0	P
4	499.48	-4.19	42.93	38.74	46.00	-7.26	Peak	400	0	P
5	697.36	-0.72	37.68	36.96	46.00	-9.04	Peak	400	0	P
6	899.12	2.12	30.78	32.90	46.00	-13.10	Peak	400	0	P

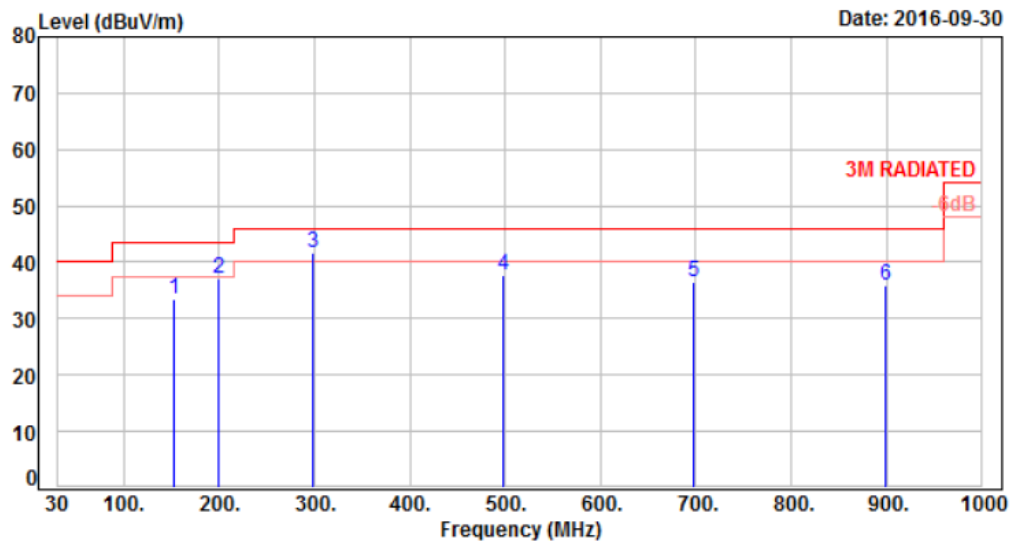
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Sep. 30, 2016	Humidity	: 63 %
Memo	: CH 01	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	43.50	33.51	43.50	-9.99	Peak	400	0	P
2	198.78	-12.50	49.50	37.00	43.50	-6.50	Peak	400	0	P
3	297.72	-9.12	50.80	41.68	46.00	-4.32	QP	124	256	P
4	497.54	-4.22	41.87	37.65	46.00	-8.35	Peak	400	0	P
5	697.36	-0.72	37.19	36.47	46.00	-9.53	Peak	400	0	P
6	899.12	2.12	33.81	35.93	46.00	-10.07	Peak	400	0	P

Note: Level = Reading + Factor

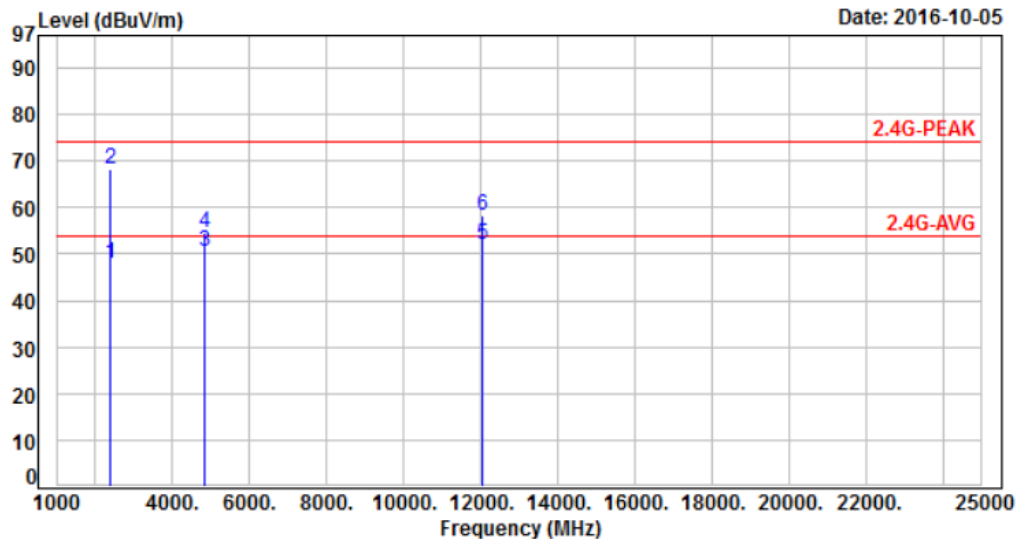
Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



6.6 Test Result and Data (1GHz ~ 25GHz)

Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 24 °C
Test Date	: Oct. 05, 2016	Humidity	: 63 %
Memo	: CH 01	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	2390.00	-15.94	63.81	47.87	54.00	-6.13	Average	130	241	P
2	2390.00	-15.94	84.26	68.32	74.00	-5.68	Peak	130	241	P
3	4824.00	-8.33	58.77	50.44	54.00	-3.56	Average	100	163	P
4	4824.00	-8.33	63.02	54.69	74.00	-19.31	Peak	100	163	P
5	12060.00	1.91	50.12	52.03	54.00	-1.97	Average	206	189	P
6	12060.00	1.91	56.33	58.24	74.00	-15.76	Peak	206	189	P

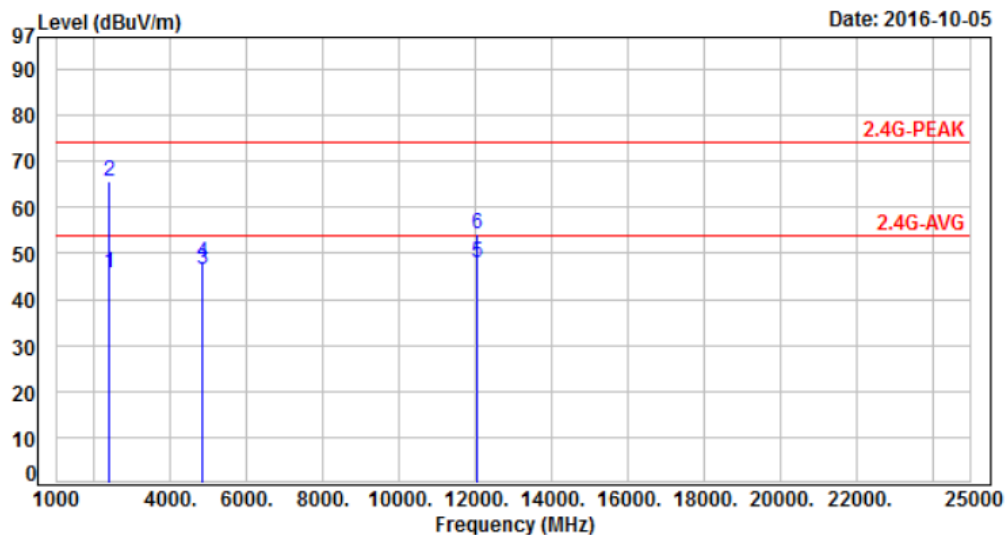
Note: Level = Reading + Factor

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	: Oct. 05, 2016	Humidity	: 63 %
Memo	: CH 01	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	2390.00	-15.94	61.60	45.66	54.00	-8.34	Average	153	256	P
2	2390.00	-15.94	81.54	65.60	74.00	-8.40	Peak	153	256	P
3	4824.00	-8.33	54.77	46.44	54.00	-7.56	Average	179	134	P
4	4824.00	-8.33	56.36	48.03	74.00	-25.97	Peak	179	134	P
5	12060.00	1.91	46.12	48.03	54.00	-5.97	Average	202	194	P
6	12060.00	1.91	52.33	54.24	74.00	-19.76	Peak	202	194	P

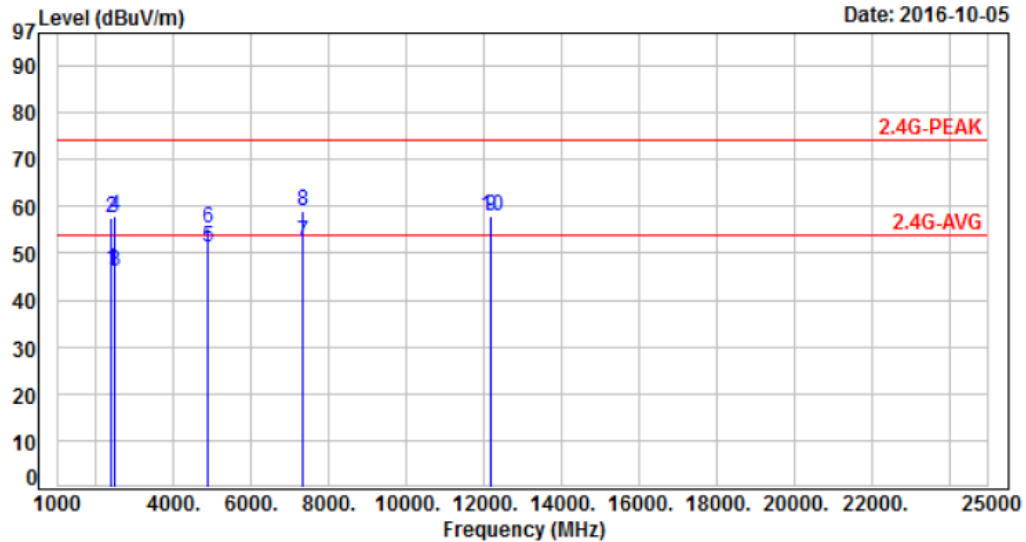
Note: Level = Reading + Factor

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	: Oct. 05, 2016	Humidity	: 63 %
Memo	: CH 06	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	2390.00	-15.75	62.16	46.41	54.00	-7.59	Average	290	55	P
2	2390.00	-15.75	73.46	57.71	74.00	-16.29	Peak	290	55	P
3	2483.50	-15.48	61.62	46.14	54.00	-7.86	Average	394	322	P
4	2483.50	-15.48	73.26	57.78	74.00	-16.22	Peak	394	322	P
5	4874.00	-7.39	58.63	51.24	54.00	-2.76	Average	287	224	P
6	4874.00	-7.39	62.86	55.47	74.00	-18.53	Peak	287	224	P
7	7311.00	-3.50	55.81	52.31	54.00	-1.69	Average	155	271	P
8	7311.00	-3.50	62.58	59.08	74.00	-14.92	Peak	155	271	P
9	12185.00	2.37	55.50	57.87	54.00	3.87	Average	127	229	F
10	12185.00	2.37	55.50	57.87	74.00	-16.13	Peak	127	229	P

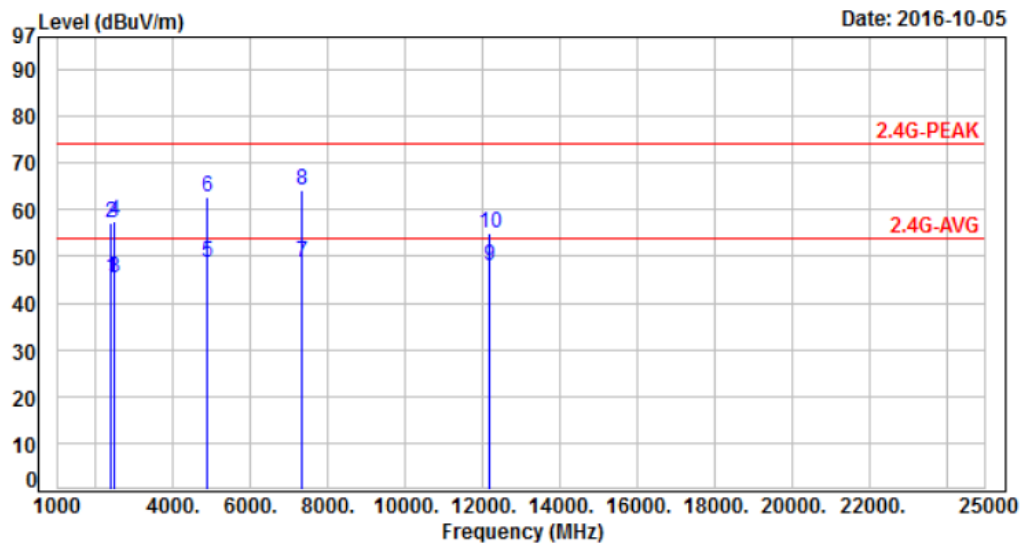
Note: Level = Reading + Factor

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	: Oct. 05, 2016	Humidity	: 63 %
Memo	: CH 06	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	2390.00	-15.75	61.12	45.37	54.00	-8.63	Average	147	102	P
2	2390.00	-15.75	73.03	57.28	74.00	-16.72	Peak	147	102	P
3	2483.50	-15.48	60.92	45.44	54.00	-8.56	Average	305	257	P
4	2483.50	-15.48	73.05	57.57	74.00	-16.43	Peak	305	257	P
5	4874.00	-7.39	55.90	48.51	54.00	-5.49	Average	125	302	P
6	4874.00	-7.39	70.16	62.77	74.00	-11.23	Peak	125	302	P
7	7311.00	-3.50	52.36	48.86	54.00	-5.14	Average	155	135	P
8	7311.00	-3.50	67.55	64.05	74.00	-9.95	Peak	155	135	P
9	12185.00	2.37	45.40	47.77	54.00	-6.23	Average	125	259	P
10	12185.00	2.37	52.50	54.87	74.00	-19.13	Peak	125	259	P

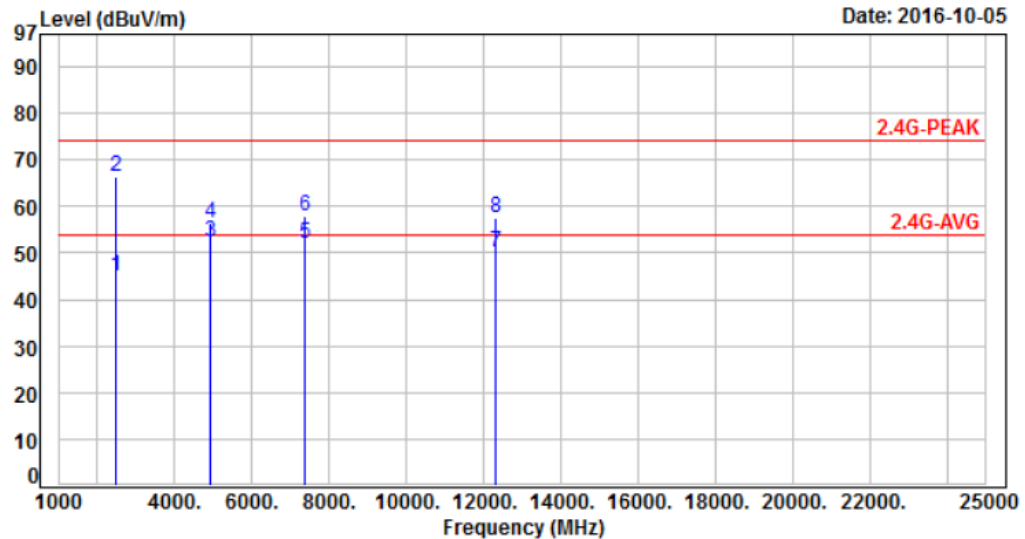
Note: Level = Reading + Factor

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	: Oct. 05, 2016	Humidity	: 63 %
Memo	: CH 11	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	2483.50	-15.68	60.72	45.04	54.00	-8.96	Average	102	167	P
2	2483.50	-15.68	82.19	66.51	74.00	-7.49	Peak	102	167	P
3	4924.00	-7.98	60.45	52.47	54.00	-1.53	Average	215	150	P
4	4924.00	-7.98	64.59	56.61	74.00	-17.39	Peak	215	150	P
5	7386.00	-5.07	57.12	52.05	54.00	-1.95	Average	100	231	P
6	7386.00	-5.07	62.97	57.90	74.00	-16.10	Peak	100	231	P
7	12310.00	1.97	48.35	50.32	54.00	-3.68	Average	389	101	P
8	12310.00	1.97	55.68	57.65	74.00	-16.35	Peak	389	101	P

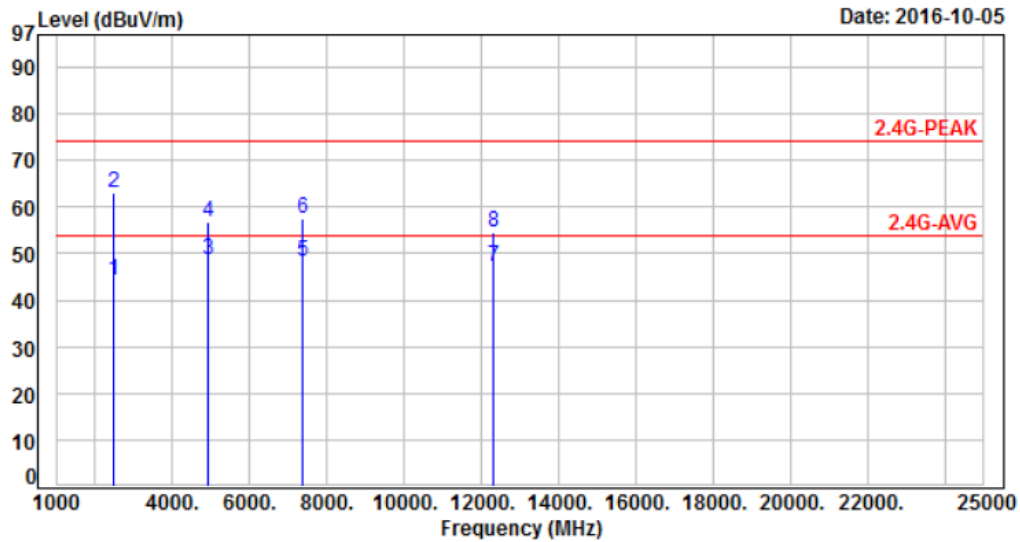
Note: Level = Reading + Factor

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	: Oct. 05, 2016	Humidity	: 63 %
Memo	: CH 11	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	2483.50	-15.68	59.92	44.24	54.00	-9.76	Average	137	224	P
2	2483.50	-15.68	78.59	62.91	74.00	-11.09	Peak	137	224	P
3	4924.00	-7.98	56.62	48.64	54.00	-5.36	Average	198	202	P
4	4924.00	-7.98	64.88	56.90	74.00	-17.10	Peak	198	202	P
5	7386.00	-5.07	53.34	48.27	54.00	-5.73	Average	121	187	P
6	7386.00	-5.07	62.49	57.42	74.00	-16.58	Peak	121	187	P
7	12310.00	1.97	45.35	47.32	54.00	-6.68	Average	160	187	P
8	12310.00	1.97	52.68	54.65	74.00	-19.35	Peak	160	187	P

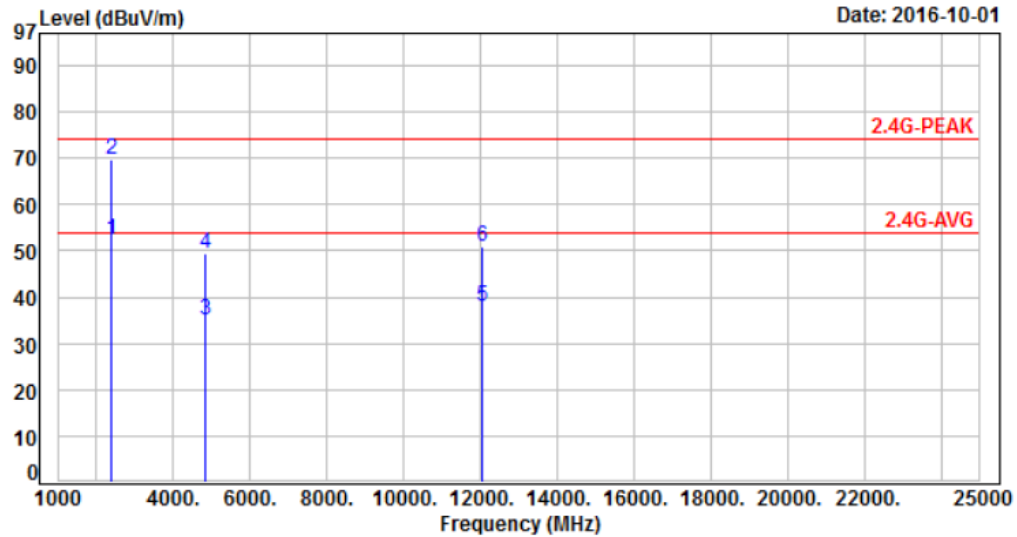
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 01	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	2390.00	-15.94	68.35	52.41	54.00	-1.59	Average	145	250	P
2	2390.00	-15.94	85.56	69.62	74.00	-4.38	Peak	145	250	P
3	4824.00	-8.33	43.41	35.08	54.00	-18.92	Average	173	165	P
4	4824.00	-8.33	57.92	49.59	74.00	-24.41	Peak	173	165	P
5	12060.00	1.91	35.96	37.87	54.00	-16.13	Average	216	105	P
6	12060.00	1.91	49.14	51.05	74.00	-22.95	Peak	216	105	P

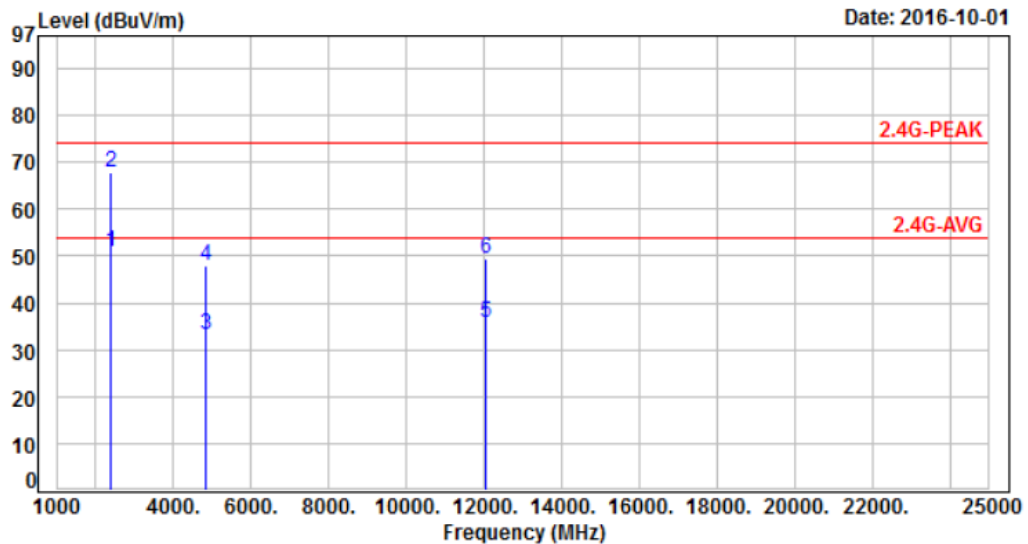
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 01	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	2390.00	-15.94	66.77	50.83	54.00	-3.17	Average	166	183	P
2	2390.00	-15.94	83.79	67.85	74.00	-6.15	Peak	166	183	P
3	4824.00	-8.33	41.64	33.31	54.00	-20.69	Average	152	303	P
4	4824.00	-8.33	56.31	47.98	74.00	-26.02	Peak	152	303	P
5	12060.00	1.91	34.02	35.93	54.00	-18.07	Average	198	185	P
6	12060.00	1.91	47.62	49.53	74.00	-24.47	Peak	198	185	P

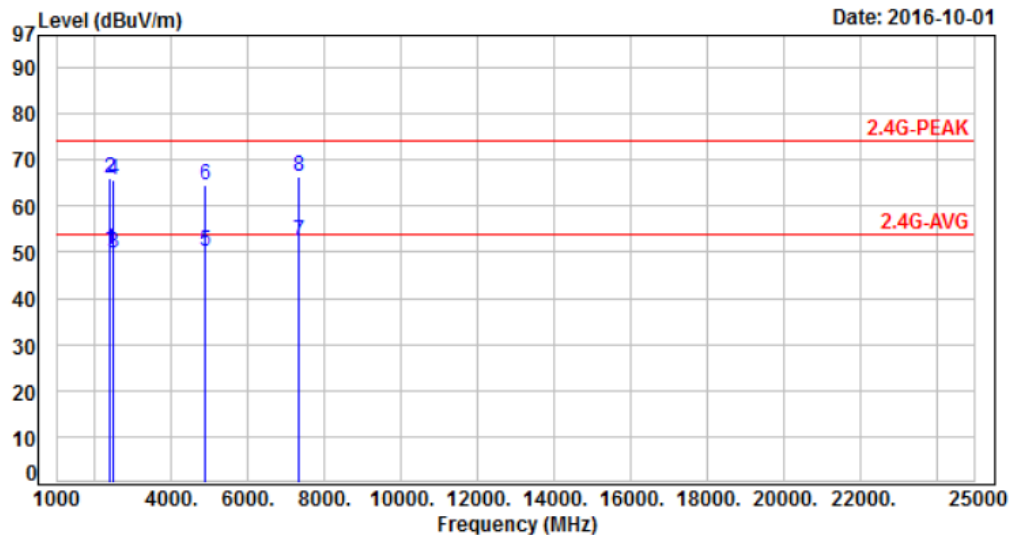
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 06	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	2390.00	-15.94	66.55	50.61	54.00	-3.39	Average	142	162	P
2	2390.00	-15.94	82.12	66.18	74.00	-7.82	Peak	142	162	P
3	2483.50	-15.68	65.31	49.63	54.00	-4.37	Average	165	200	P
4	2483.50	-15.68	81.33	65.65	74.00	-8.35	Peak	165	200	P
5	4874.00	-8.16	58.23	50.07	54.00	-3.93	Average	369	113	P
6	4874.00	-8.16	72.77	64.61	74.00	-9.39	Peak	369	113	P
7	7311.00	-5.23	57.43	52.20	54.00	-1.80	Average	169	316	P
8	7311.00	-5.23	71.69	66.46	74.00	-7.54	Peak	169	316	P

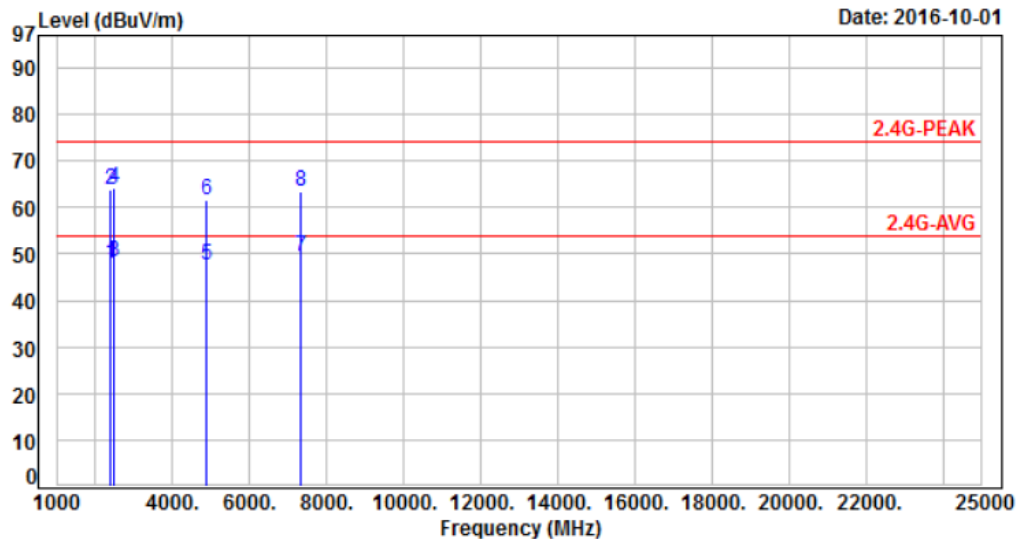
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 06	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	2390.00	-15.94	63.97	48.03	54.00	-5.97	Average	242	189	P
2	2390.00	-15.94	79.63	63.69	74.00	-10.31	Peak	242	189	P
3	2483.50	-15.68	63.87	48.19	54.00	-5.81	Average	124	98	P
4	2483.50	-15.68	79.69	64.01	74.00	-9.99	Peak	124	98	P
5	4874.00	-8.16	55.74	47.58	54.00	-6.42	Average	305	212	P
6	4874.00	-8.16	69.93	61.77	74.00	-12.23	Peak	305	212	P
7	7311.00	-5.23	54.68	49.45	54.00	-4.55	Average	173	245	P
8	7311.00	-5.23	68.81	63.58	74.00	-10.42	Peak	173	245	P

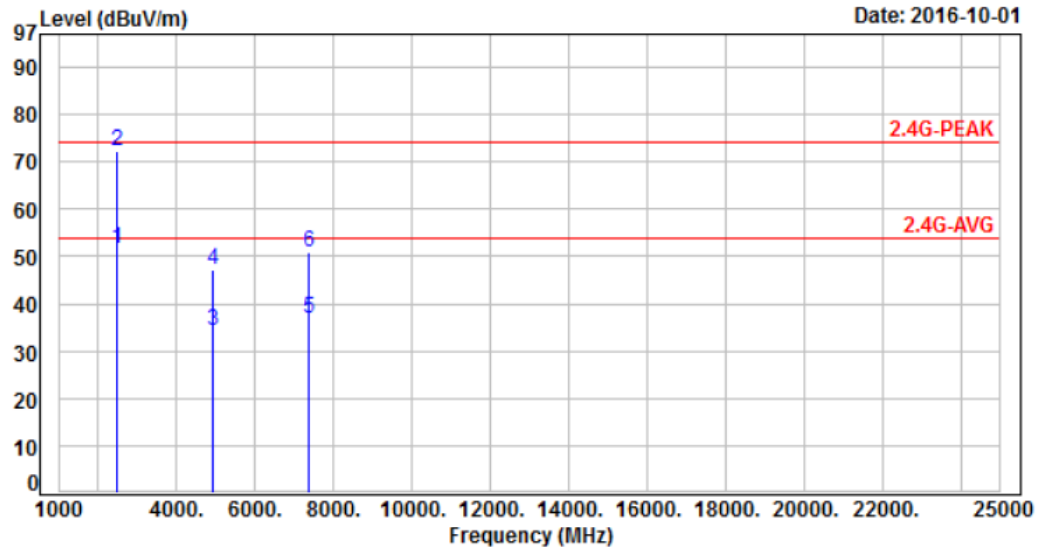
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 11	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	2483.50	-15.68	67.34	51.66	54.00	-2.34	Average	100	138	P
2	2483.50	-15.68	88.07	72.39	74.00	-1.61	Peak	100	138	P
3	4924.00	-7.98	42.30	34.32	54.00	-19.68	Average	305	247	P
4	4924.00	-7.98	55.10	47.12	74.00	-26.88	Peak	305	247	P
5	7386.00	-5.07	41.77	36.70	54.00	-17.30	Average	213	196	P
6	7386.00	-5.07	55.89	50.82	74.00	-23.18	Peak	213	196	P

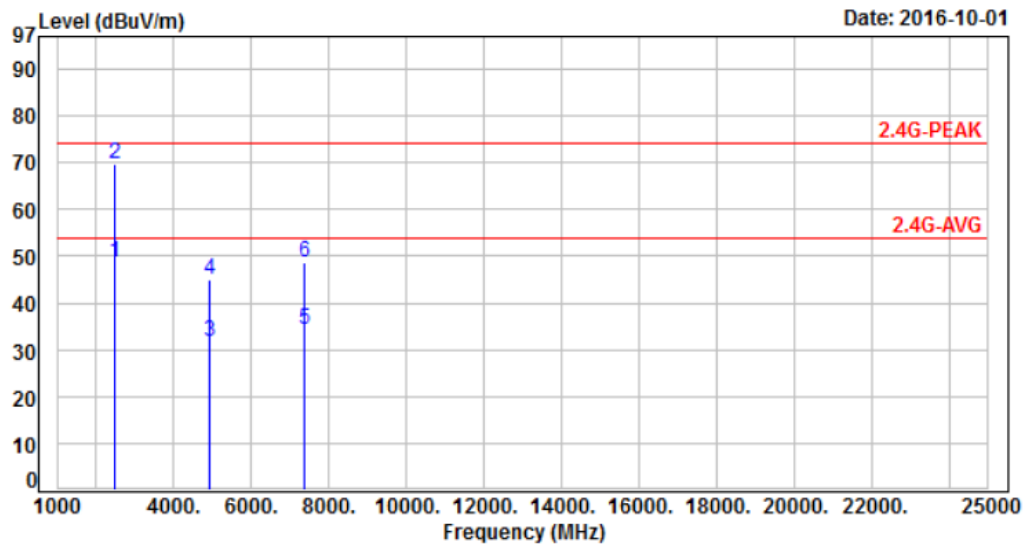
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 11	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	2483.50	-15.68	64.52	48.84	54.00	-5.16	Average	149	206	P
2	2483.50	-15.68	85.24	69.56	74.00	-4.44	Peak	149	206	P
3	4924.00	-7.98	39.79	31.81	54.00	-22.19	Average	212	198	P
4	4924.00	-7.98	52.83	44.85	74.00	-29.15	Peak	212	198	P
5	7386.00	-5.07	39.25	34.18	54.00	-19.82	Average	103	316	P
6	7386.00	-5.07	53.66	48.59	74.00	-25.41	Peak	103	316	P

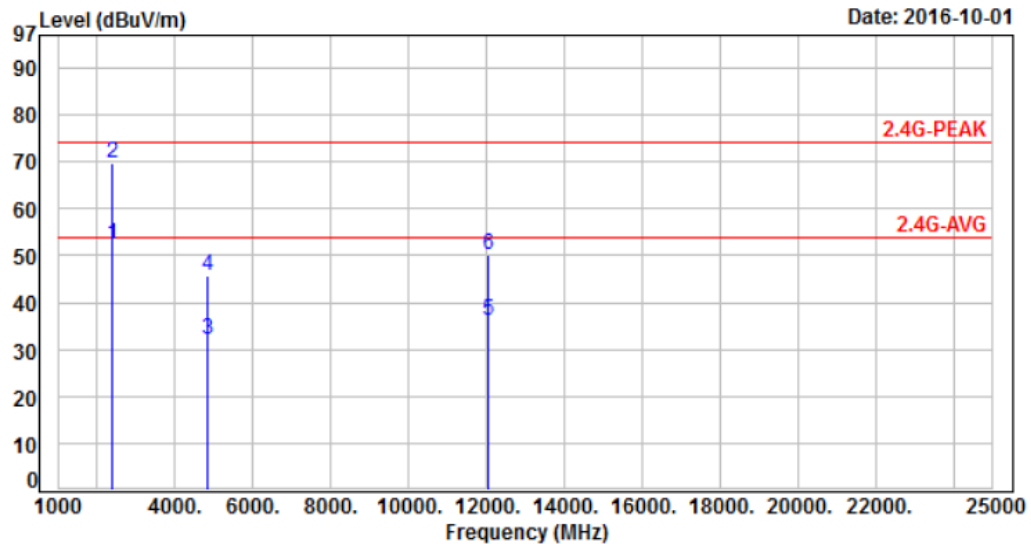
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 5	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 01	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	2390.00	-15.94	68.39	52.45	54.00	-1.55	Average	202	260	P
2	2390.00	-15.94	85.64	69.70	74.00	-4.30	Peak	202	260	P
3	4824.00	-8.33	40.53	32.20	54.00	-21.80	Average	135	206	P
4	4824.00	-8.33	54.11	45.78	74.00	-28.22	Peak	135	206	P
5	12060.00	1.91	34.18	36.09	54.00	-17.91	Average	283	292	P
6	12060.00	1.91	48.17	50.08	74.00	-23.92	Peak	283	292	P

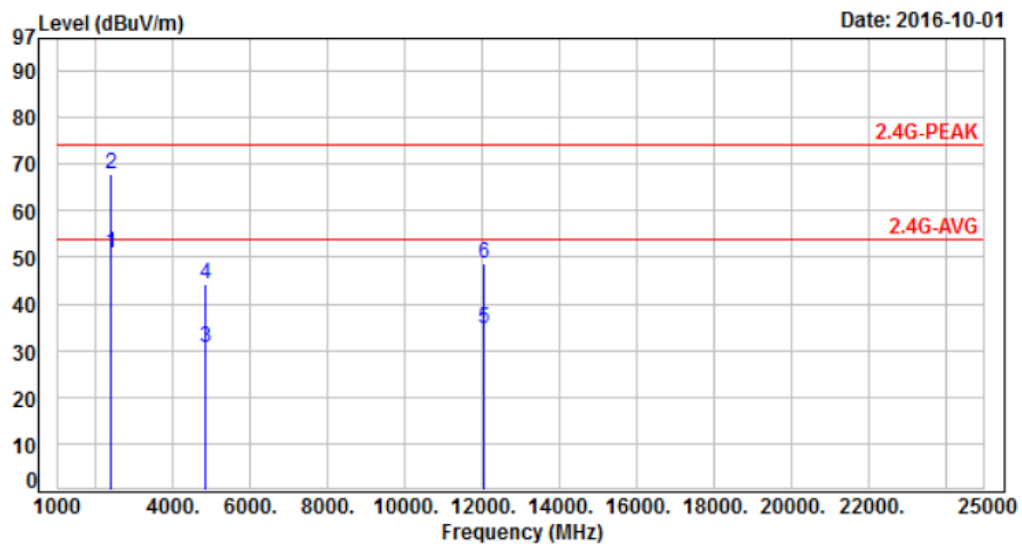
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 01	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	2390.00	-15.94	66.70	50.76	54.00	-3.24	Average	163	155	P
2	2390.00	-15.94	83.92	67.98	74.00	-6.02	Peak	163	155	P
3	4824.00	-8.33	38.84	30.51	54.00	-23.49	Average	187	302	P
4	4824.00	-8.33	52.67	44.34	74.00	-29.66	Peak	187	302	P
5	12060.00	1.91	32.72	34.63	54.00	-19.37	Average	305	119	P
6	12060.00	1.91	46.84	48.75	74.00	-25.25	Peak	305	119	P

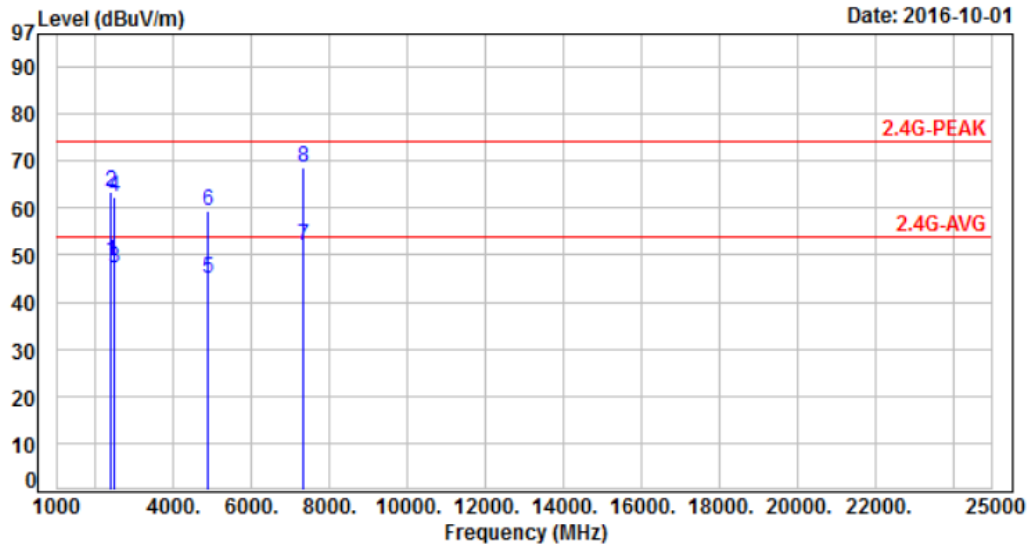
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 5	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 06	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	2390.00	-15.94	64.76	48.82	54.00	-5.18	Average	149	164	P
2	2390.00	-15.94	79.26	63.32	74.00	-10.68	Peak	149	164	P
3	2483.50	-15.68	63.02	47.34	54.00	-6.66	Average	100	265	P
4	2483.50	-15.68	77.91	62.23	74.00	-11.77	Peak	100	265	P
5	4874.00	-8.16	53.29	45.13	54.00	-8.87	Average	100	169	P
6	4874.00	-8.16	67.45	59.29	74.00	-14.71	Peak	100	169	P
7	7311.00	-5.23	57.29	52.06	54.00	-1.94	Average	129	285	P
8	7311.00	-5.23	73.87	68.64	74.00	-5.36	Peak	129	285	P

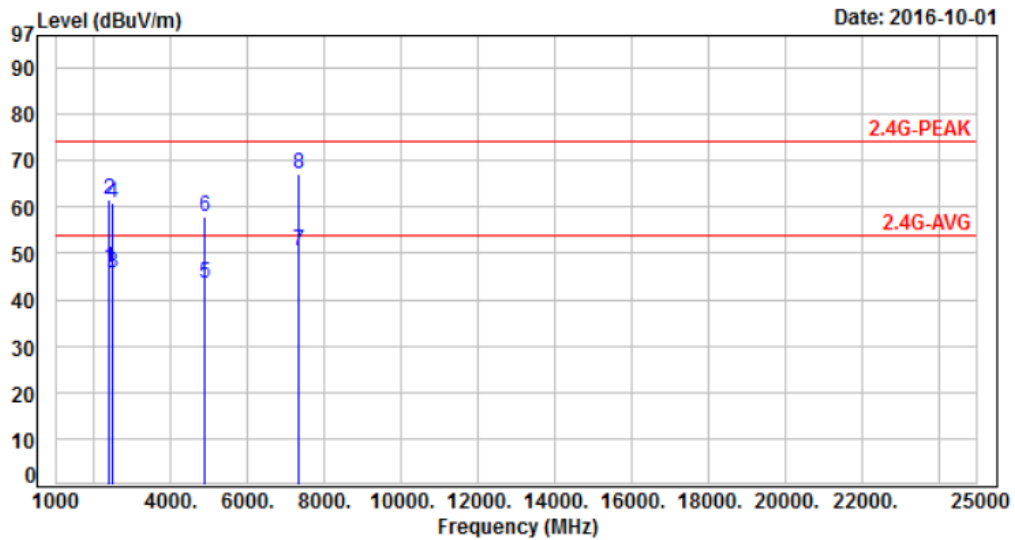
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 06	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	2390.00	-15.94	62.91	46.97	54.00	-7.03	Average	162	224	P
2	2390.00	-15.94	77.63	61.69	74.00	-12.31	Peak	162	224	P
3	2483.50	-15.68	61.37	45.69	54.00	-8.31	Average	169	145	P
4	2483.50	-15.68	76.48	60.80	74.00	-13.20	Peak	169	145	P
5	4874.00	-8.16	51.75	43.59	54.00	-10.41	Average	125	302	P
6	4874.00	-8.16	65.89	57.73	74.00	-16.27	Peak	125	302	P
7	7311.00	-5.23	55.64	50.41	54.00	-3.59	Average	137	299	P
8	7311.00	-5.23	72.25	67.02	74.00	-6.98	Peak	137	299	P

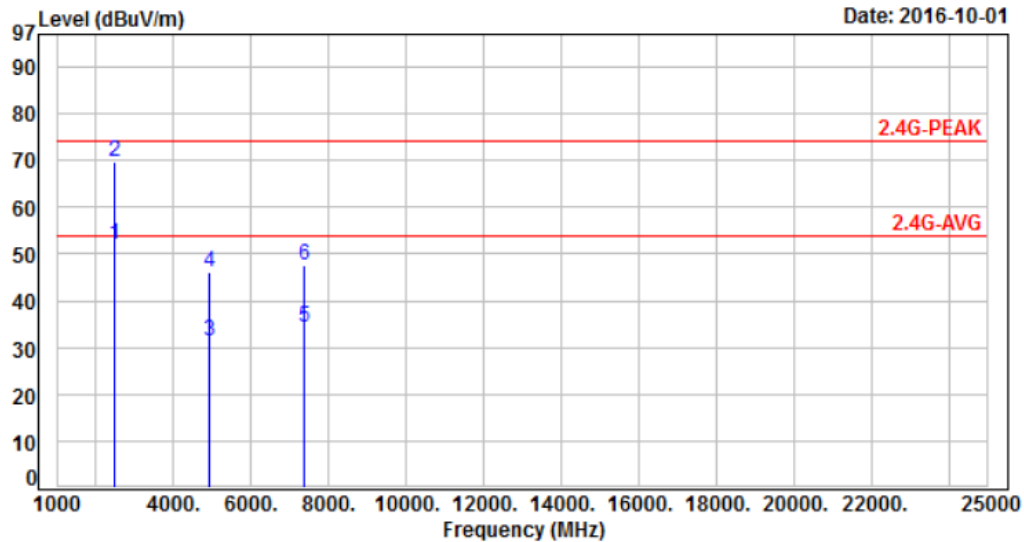
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 5	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 11	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	2483.50	-15.68	67.71	52.03	54.00	-1.97	Average	139	246	P
2	2483.50	-15.68	85.42	69.74	74.00	-4.26	Peak	139	246	P
3	4924.00	-7.98	39.40	31.42	54.00	-22.58	Average	188	248	P
4	4924.00	-7.98	53.98	46.00	74.00	-28.00	Peak	188	248	P
5	7386.00	-5.07	39.39	34.32	54.00	-19.68	Average	241	324	P
6	7386.00	-5.07	52.72	47.65	74.00	-26.35	Peak	241	324	P

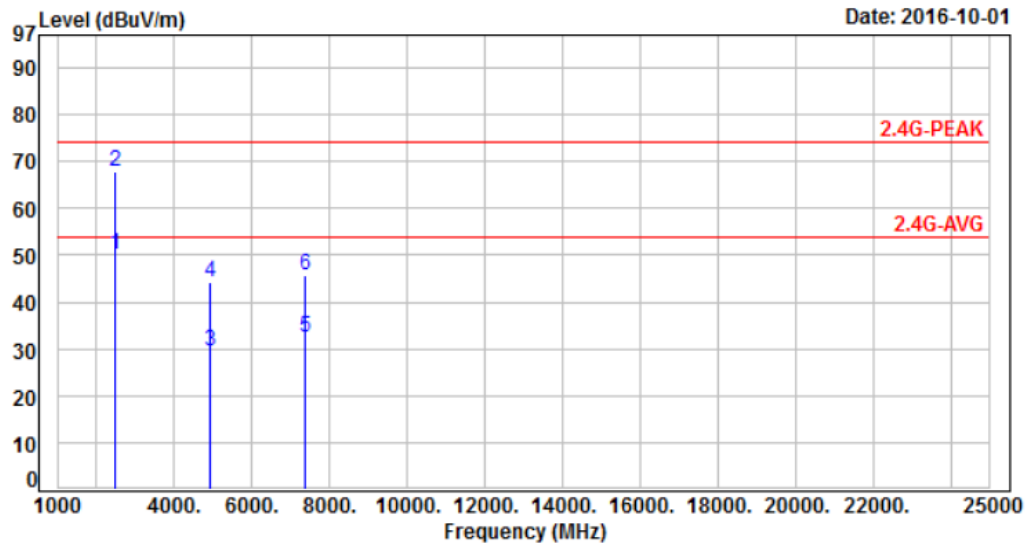
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 11	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	2483.50	-15.68	65.96	50.28	54.00	-3.72	Average	198	311	P
2	2483.50	-15.68	83.71	68.03	74.00	-5.97	Peak	198	311	P
3	4924.00	-7.98	37.64	29.66	54.00	-24.34	Average	202	218	P
4	4924.00	-7.98	52.39	44.41	74.00	-29.59	Peak	202	218	P
5	7386.00	-5.07	37.64	32.57	54.00	-21.43	Average	302	183	P
6	7386.00	-5.07	50.94	45.87	74.00	-28.13	Peak	302	183	P

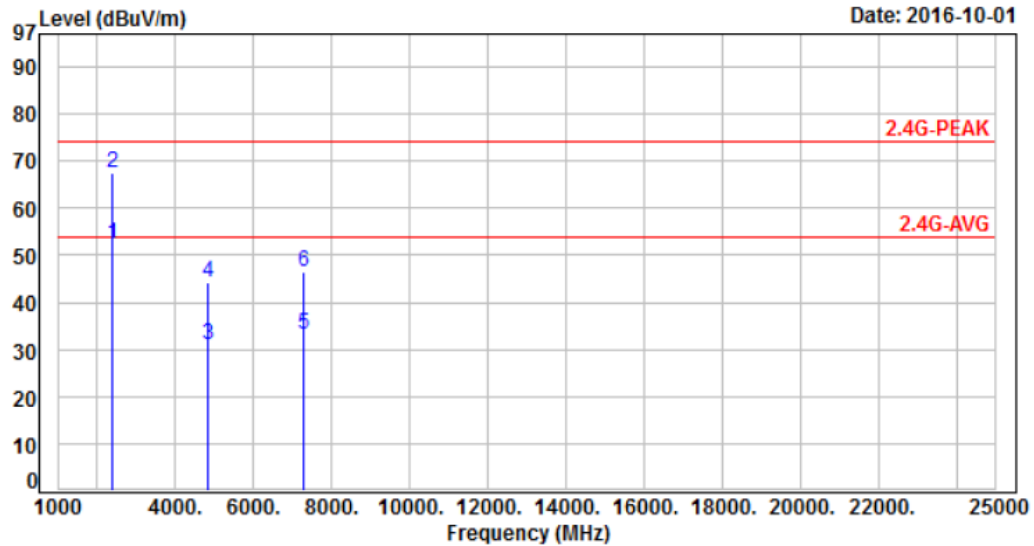
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 6	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 03	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	2390.00	-15.94	68.42	52.48	54.00	-1.52	Average	203	261	P
2	2390.00	-15.94	83.43	67.49	74.00	-6.51	Peak	203	261	P
3	4844.00	-8.26	39.41	31.15	54.00	-22.85	Average	325	188	P
4	4844.00	-8.26	52.38	44.12	74.00	-29.88	Peak	325	188	P
5	7266.00	-5.32	38.50	33.18	54.00	-20.82	Average	289	256	P
6	7266.00	-5.32	51.89	46.57	74.00	-27.43	Peak	289	256	P

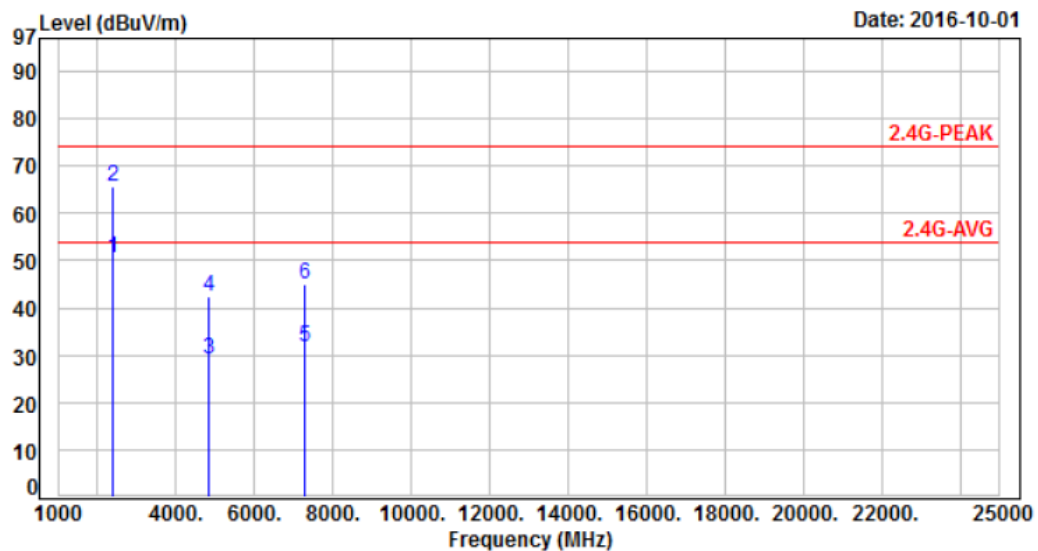
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 03	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	2390.00	-15.94	66.58	50.64	54.00	-3.36	Average	198	110	P
2	2390.00	-15.94	81.69	65.75	74.00	-8.25	Peak	198	110	P
3	4844.00	-8.26	37.58	29.32	54.00	-24.68	Average	252	237	P
4	4844.00	-8.26	50.49	42.23	74.00	-31.77	Peak	252	237	P
5	7266.00	-5.32	36.98	31.66	54.00	-22.34	Average	131	162	P
6	7266.00	-5.32	50.21	44.89	74.00	-29.11	Peak	131	162	P

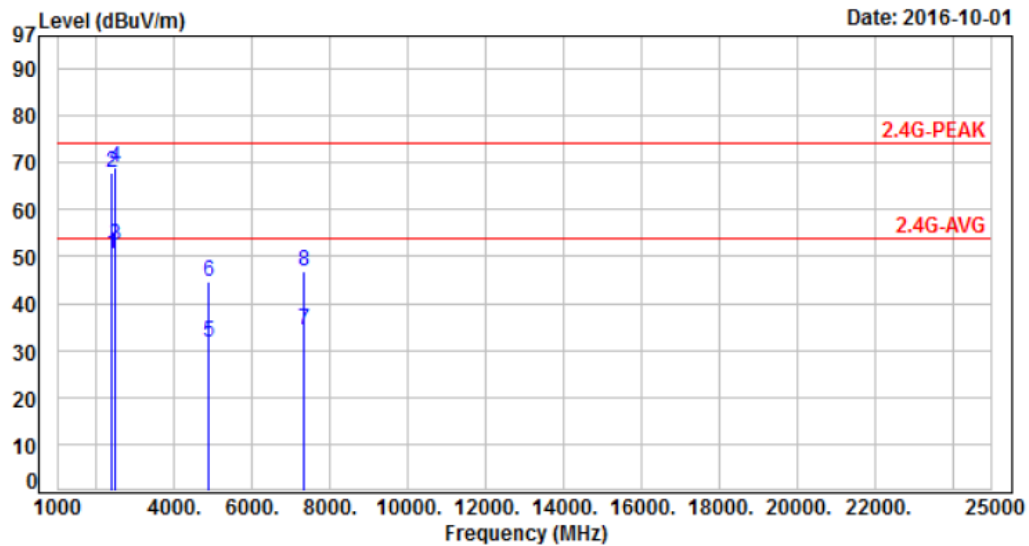
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 6	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 06	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	2390.00	-15.94	66.33	50.39	54.00	-3.61	Average	218	240	P
2	2390.00	-15.94	83.74	67.80	74.00	-6.20	Peak	218	240	P
3	2483.50	-15.68	68.16	52.48	54.00	-1.52	Average	116	192	P
4	2483.50	-15.68	84.66	68.98	74.00	-5.02	Peak	116	192	P
5	4874.00	-8.16	39.89	31.73	54.00	-22.27	Average	312	148	P
6	4874.00	-8.16	52.62	44.46	74.00	-29.54	Peak	312	148	P
7	7311.00	-5.23	39.44	34.21	54.00	-19.79	Average	249	118	P
8	7311.00	-5.23	52.21	46.98	74.00	-27.02	Peak	249	118	P

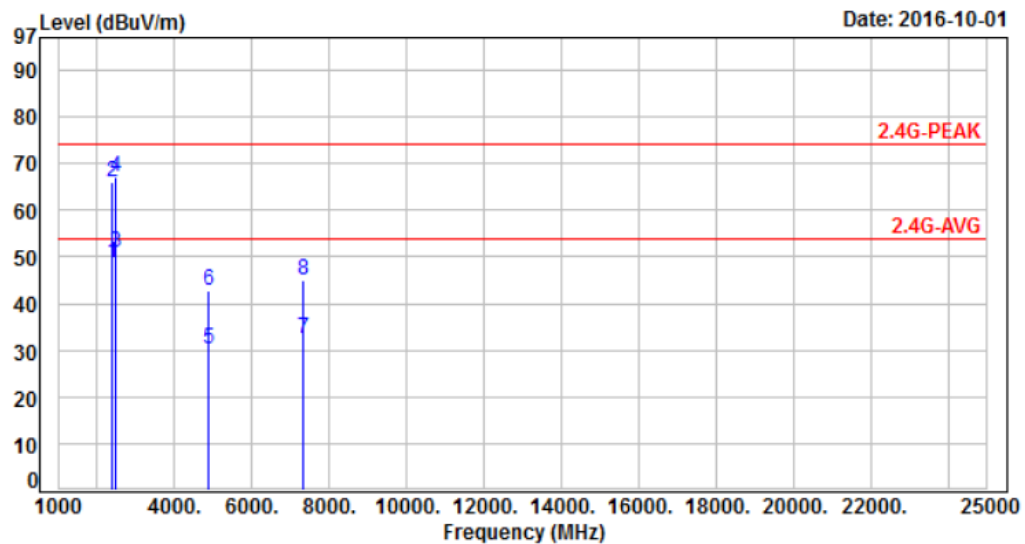
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 06	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	2390.00	-15.94	64.48	48.54	54.00	-5.46	Average	137	122	P
2	2390.00	-15.94	81.92	65.98	74.00	-8.02	Peak	137	122	P
3	2483.50	-15.68	66.55	50.87	54.00	-3.13	Average	202	211	P
4	2483.50	-15.68	82.81	67.13	74.00	-6.87	Peak	202	211	P
5	4874.00	-8.16	38.26	30.10	54.00	-23.90	Average	288	165	P
6	4874.00	-8.16	50.99	42.83	74.00	-31.17	Peak	288	165	P
7	7311.00	-5.23	37.68	32.45	54.00	-21.55	Average	300	198	P
8	7311.00	-5.23	50.37	45.14	74.00	-28.86	Peak	300	198	P

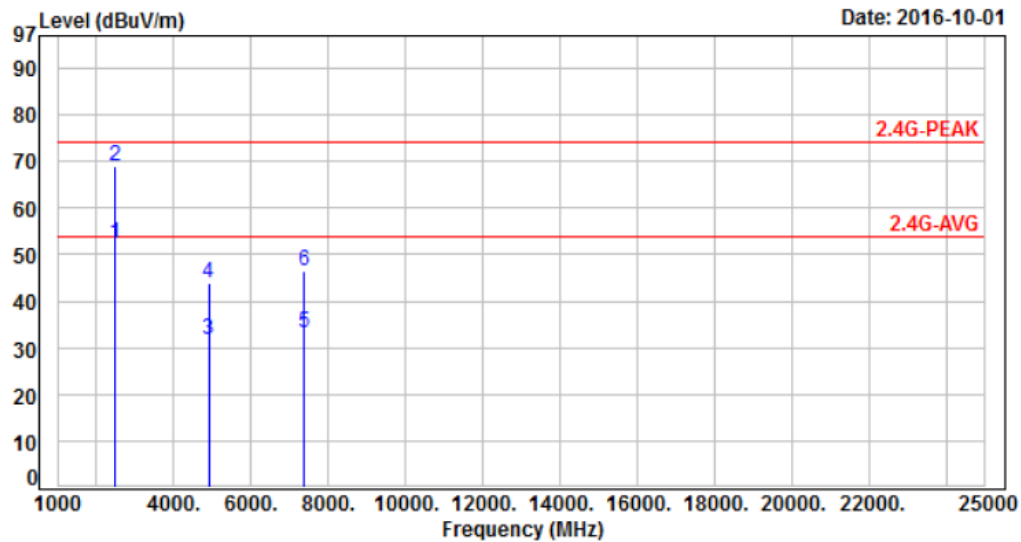
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: VERTICAL
Test Mode	: Mode 6	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 09	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	2483.50	-15.68	68.03	52.35	54.00	-1.65	Average	149	163	P
2	2483.50	-15.68	84.57	68.89	74.00	-5.11	Peak	149	163	P
3	4904.00	-8.04	39.94	31.90	54.00	-22.10	Average	202	198	P
4	4904.00	-8.04	52.09	44.05	74.00	-29.95	Peak	202	198	P
5	7356.00	-5.12	38.45	33.33	54.00	-20.67	Average	246	209	P
6	7356.00	-5.12	51.49	46.37	74.00	-27.63	Peak	246	209	P

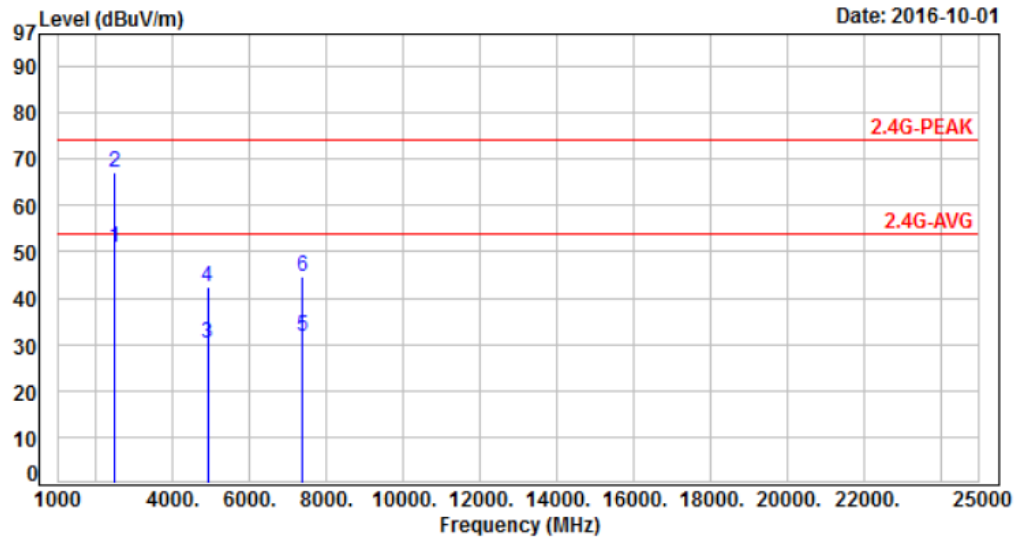
Note: Level = Reading + Factor

Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6	Temperature	: 24 °C
Test Date	: Oct. 01, 2016	Humidity	: 63 %
Memo	: CH 09	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	2483.50	-15.68	66.62	50.94	54.00	-3.06	Average	183	211	P
2	2483.50	-15.68	82.92	67.24	74.00	-6.76	Peak	183	211	P
3	4904.00	-8.04	38.34	30.30	54.00	-23.70	Average	302	225	P
4	4904.00	-8.04	50.60	42.56	74.00	-31.44	Peak	302	225	P
5	7356.00	-5.12	36.83	31.71	54.00	-22.29	Average	152	149	P
6	7356.00	-5.12	49.76	44.64	74.00	-29.36	Peak	152	149	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 – 5.250
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. Test of Conducted Spurious Emission

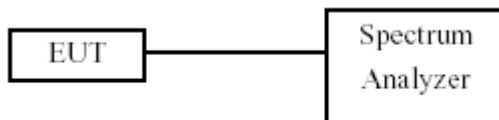
7.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

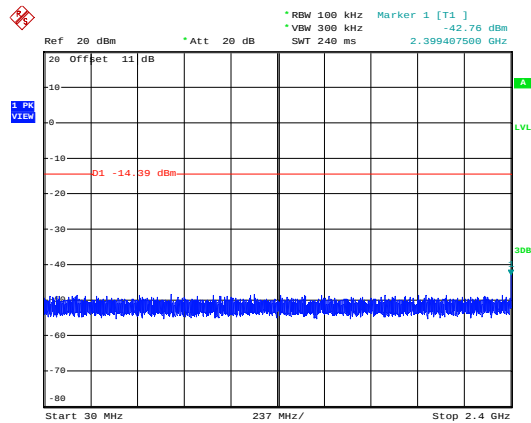
Test Date	: Oct. 04, 2016	Temperature	: 23°C
Atmospheric pressure	: 1015 hPa	Humidity	: 64%
Test Result	: PASS		

Note: Test plots refers to the following pages.

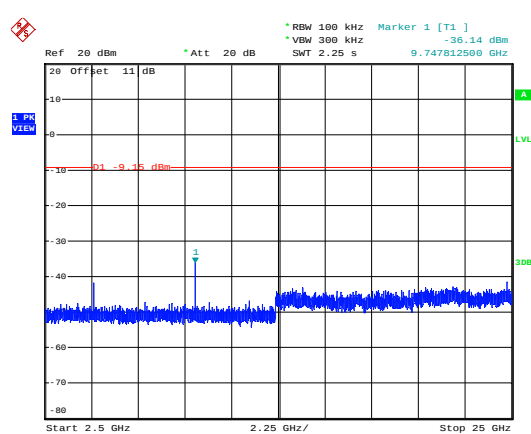
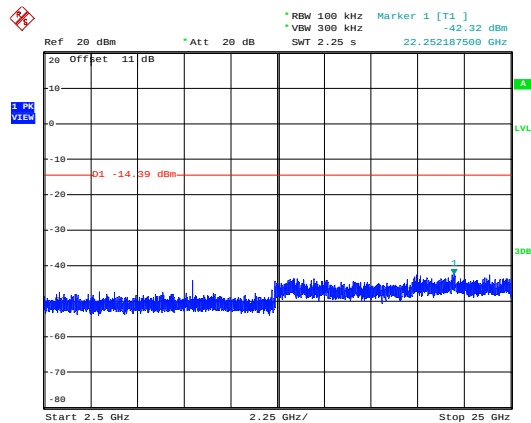
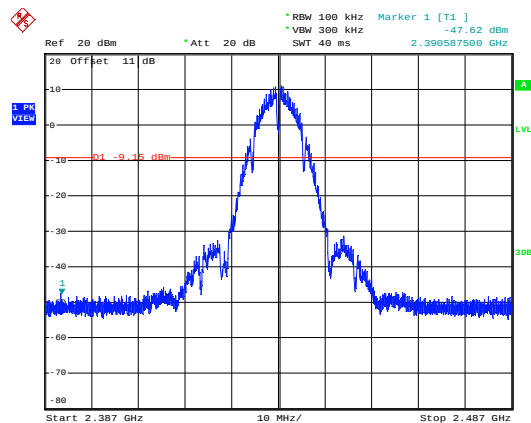
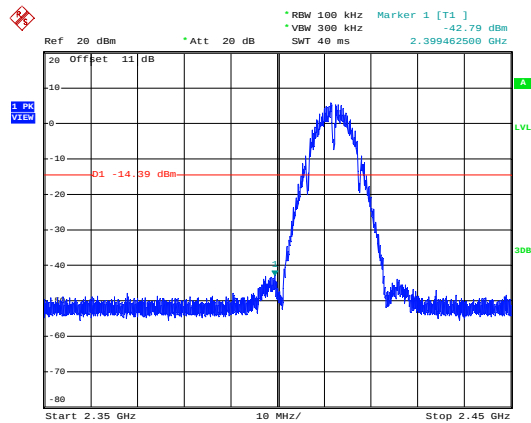
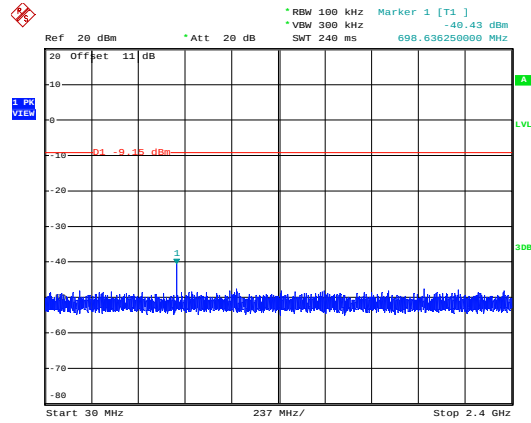


Antenna 1

Modulation Type: 802.11b, CH 01



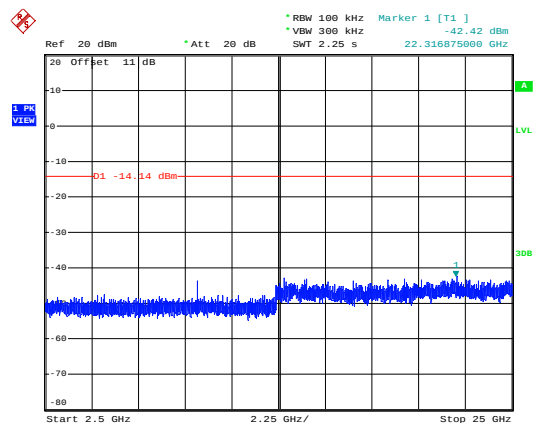
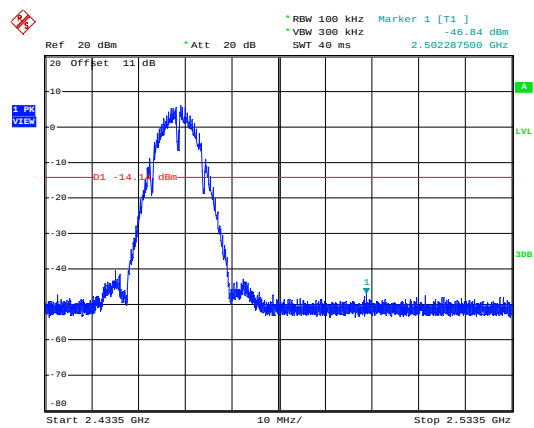
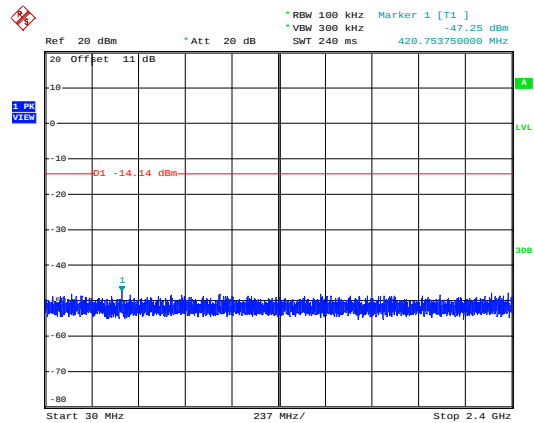
Modulation Type: 802.11b, CH 06





Antenna 1

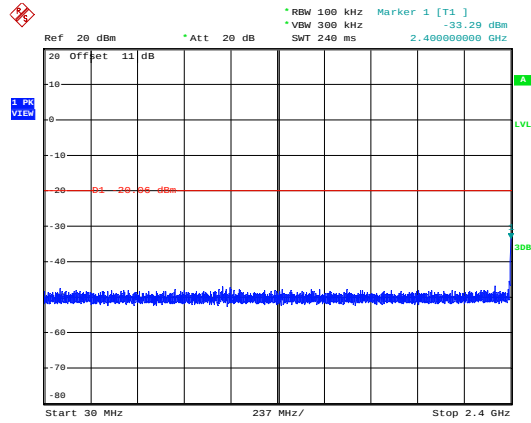
Modulation Type: 802.11b, CH 11



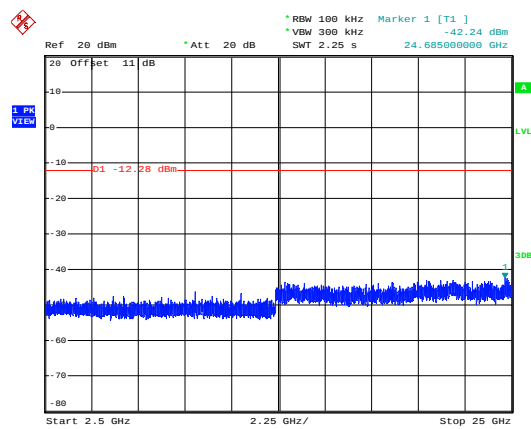
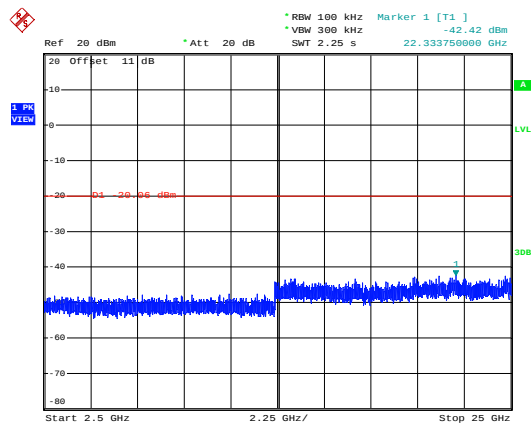
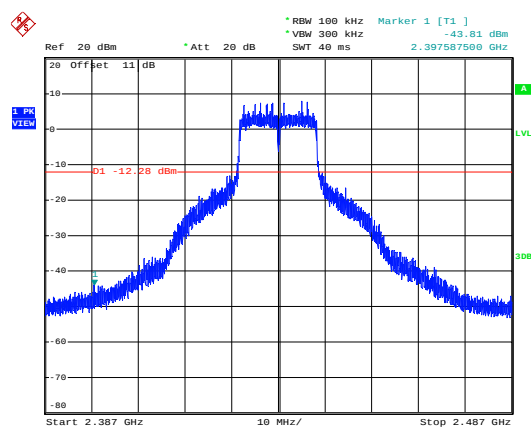
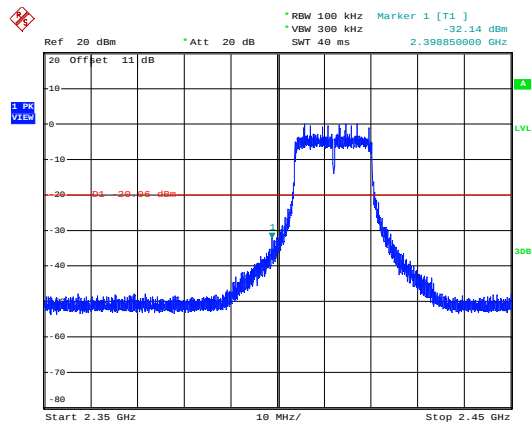
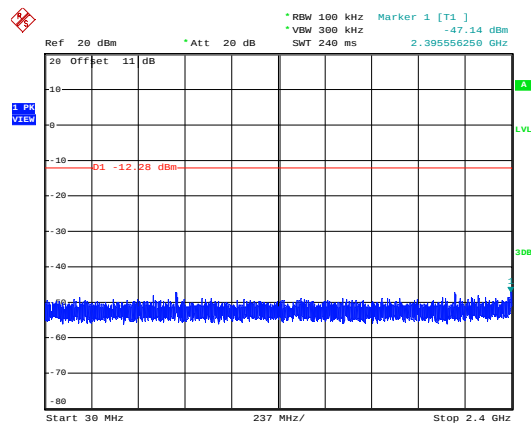


Antenna 1

Modulation Type: 802.11g, CH 01



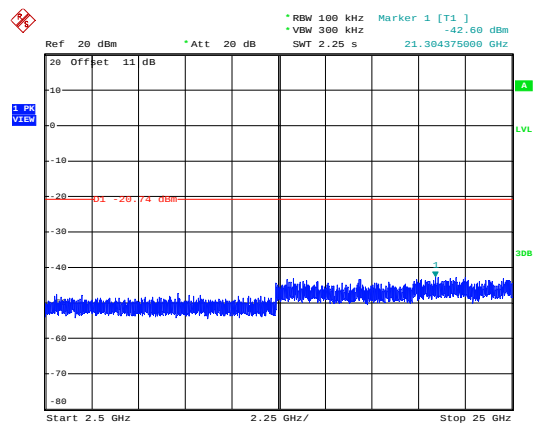
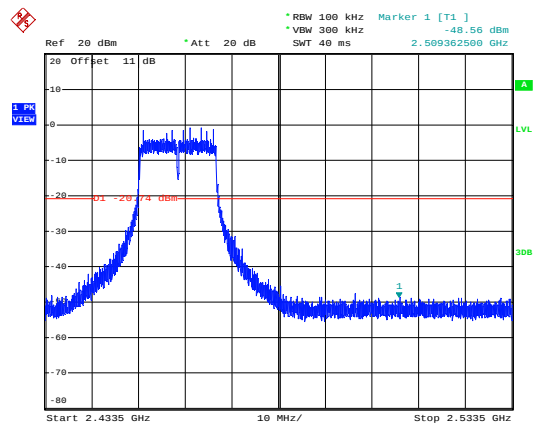
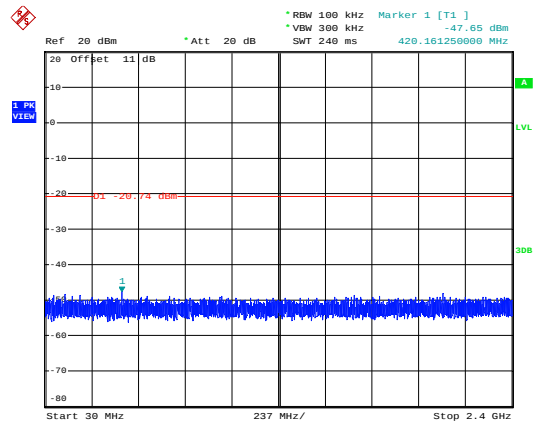
Modulation Type: 802.11g, CH 06





Antenna 1

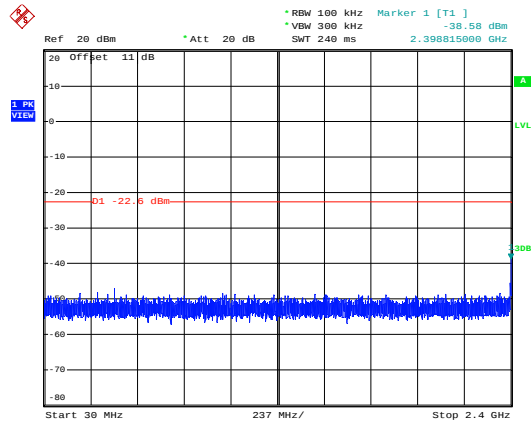
Modulation Type: 802.11g, CH 11



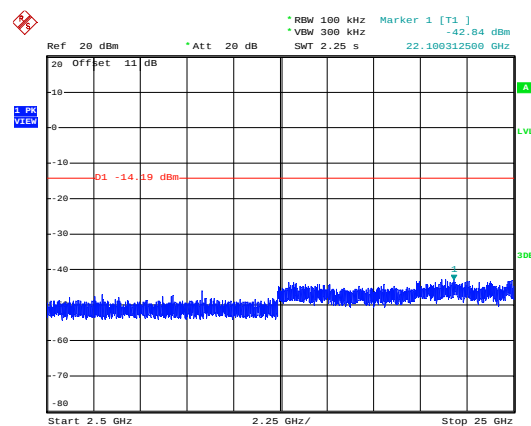
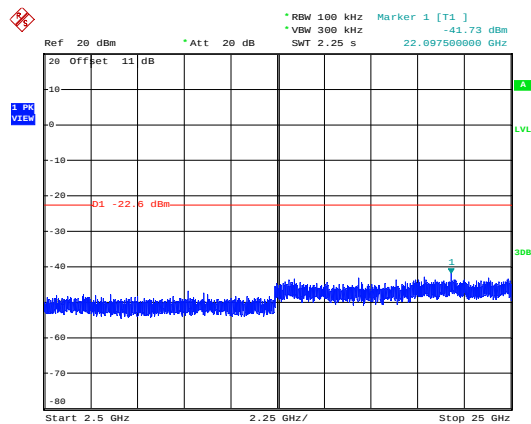
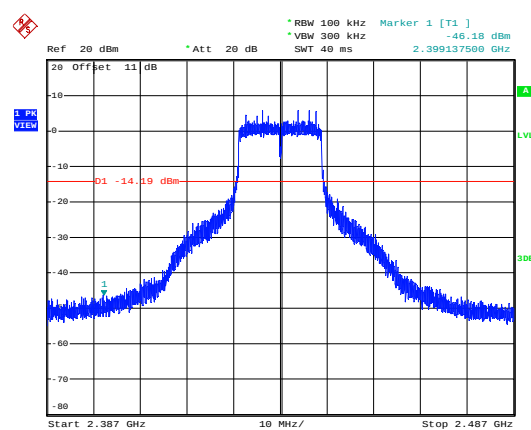
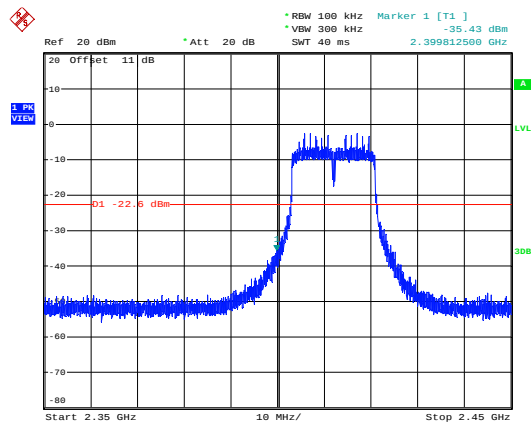
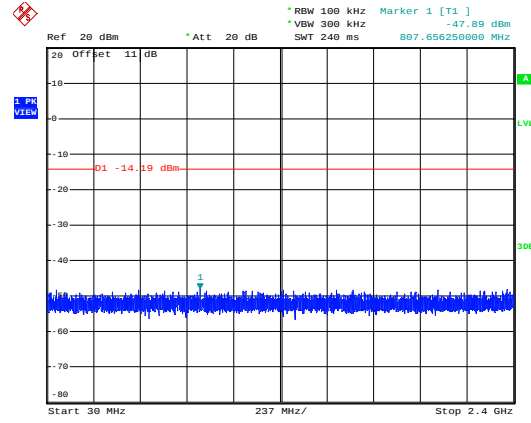


Antenna 1

Modulation Type: 802.11ac VHT20, CH 01



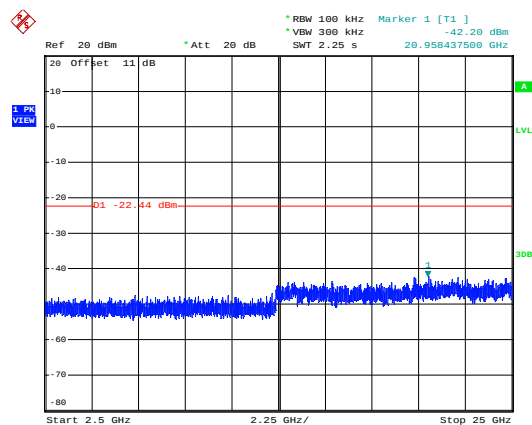
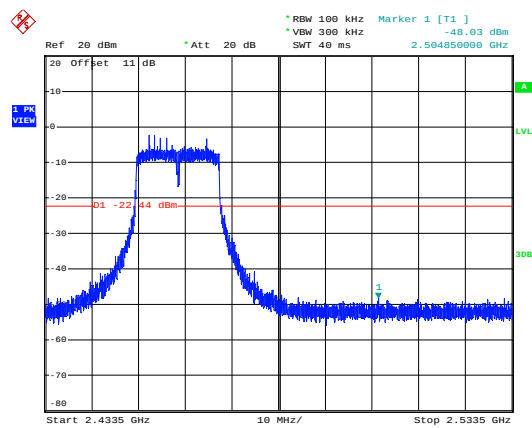
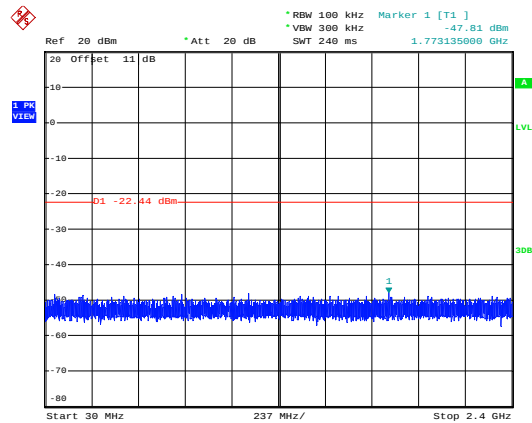
Modulation Type: 802.11ac VHT20, CH 06





Antenna 1

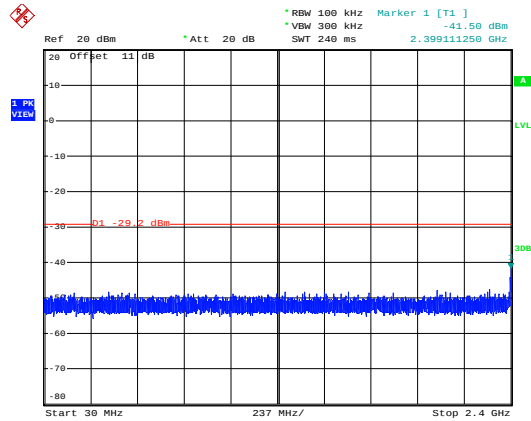
Modulation Type: 802.11ac VHT20, CH 11



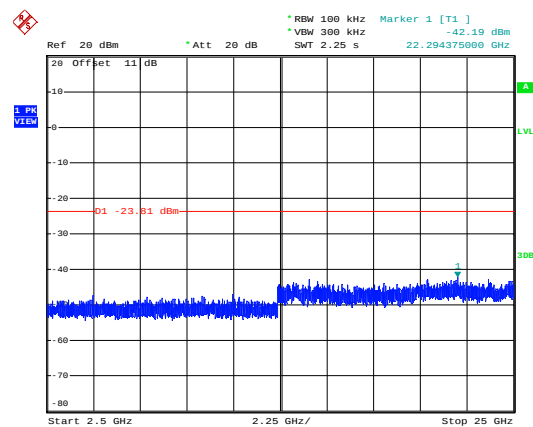
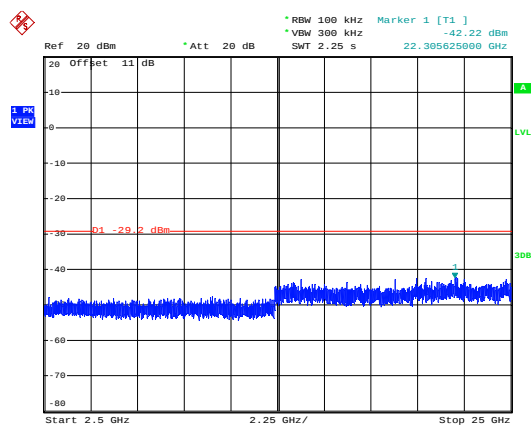
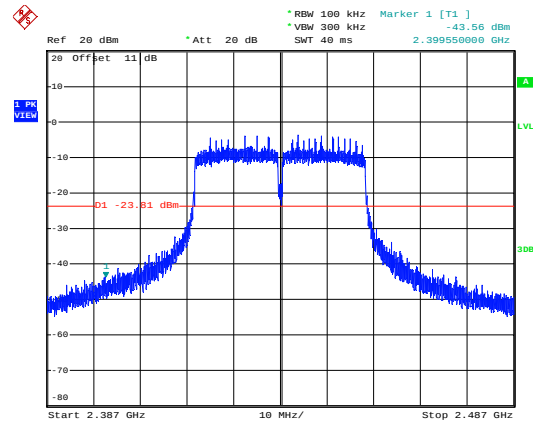
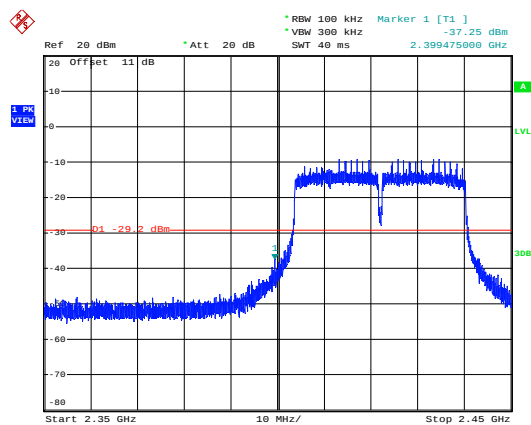
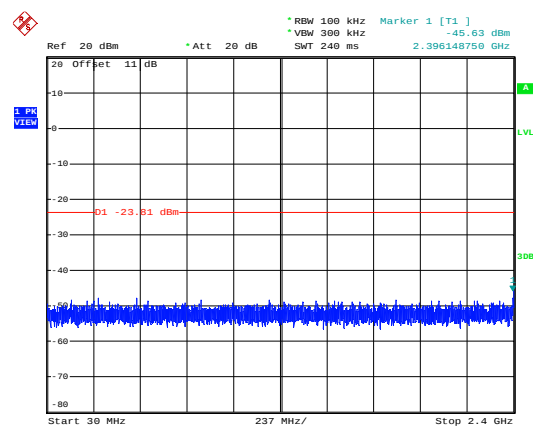


Antenna 1

Modulation Type: 802.11ac VHT40, CH 03



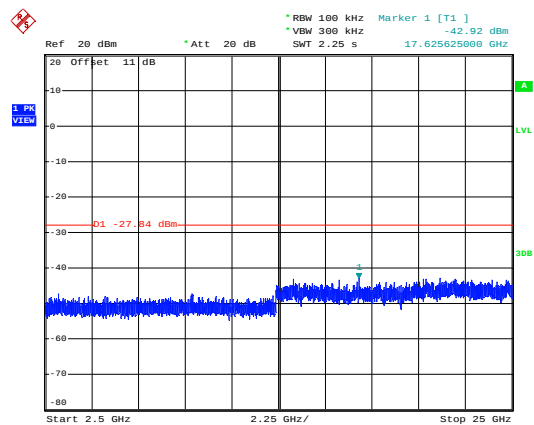
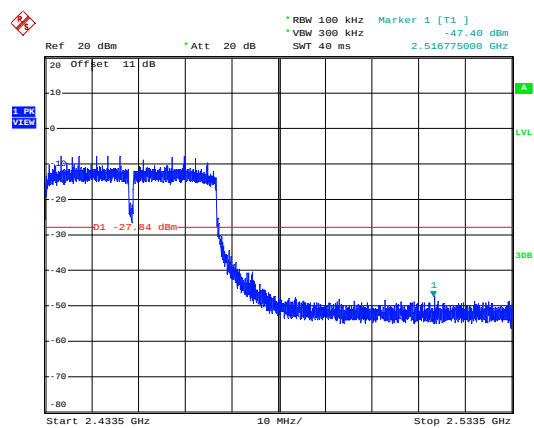
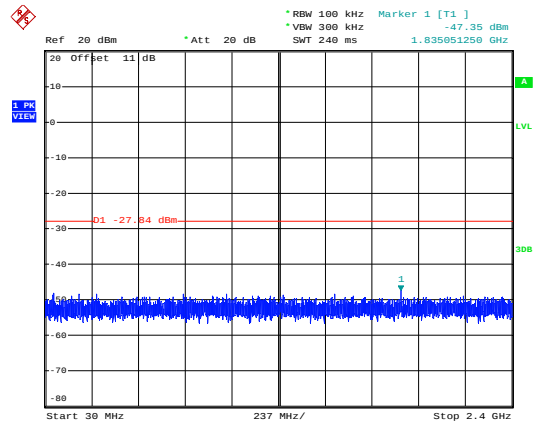
Modulation Type: 802.11ac VHT40, CH 06





Antenna 1

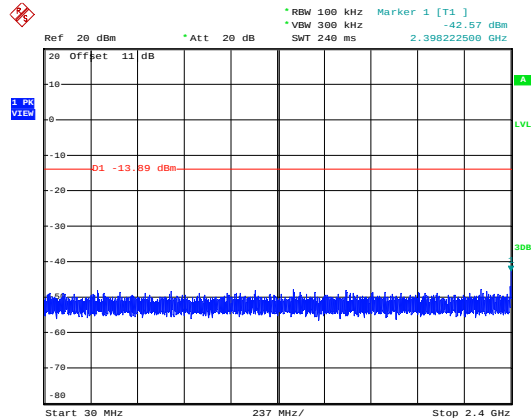
Modulation Type: 802.11ac VHT40, CH 09



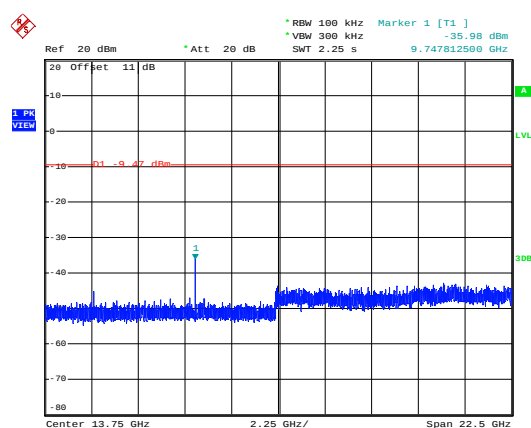
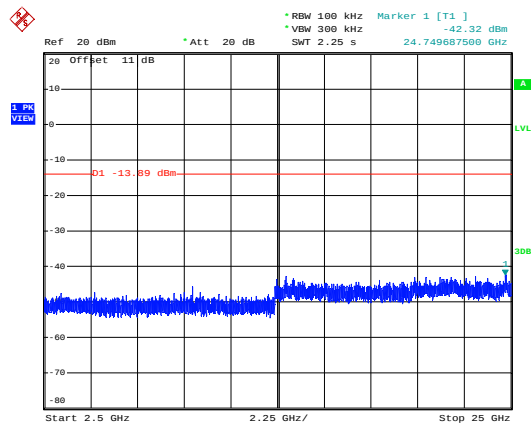
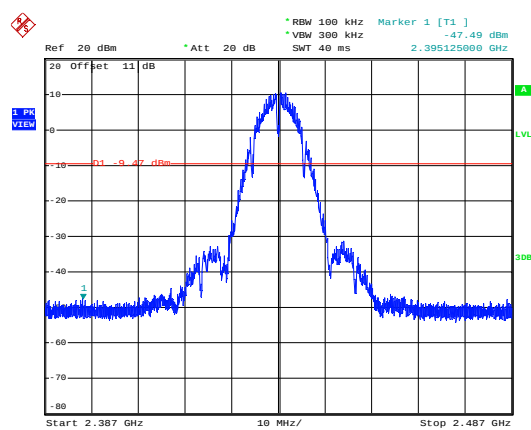
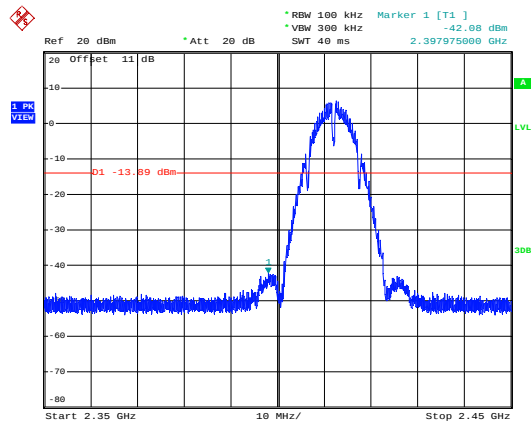
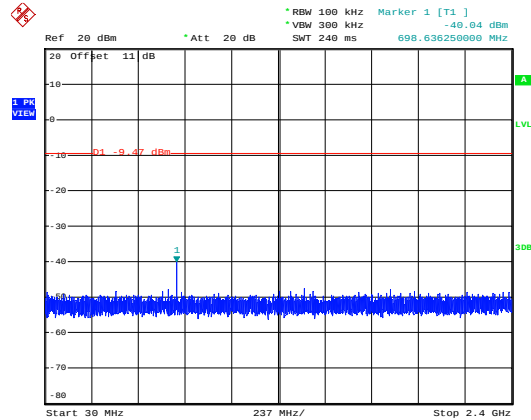


Antenna 2

Modulation Type: 802.11b, CH 01



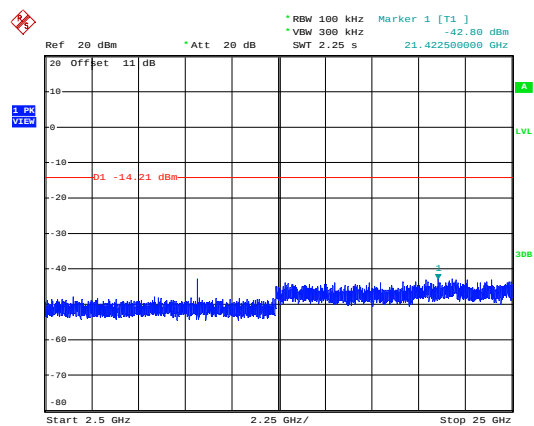
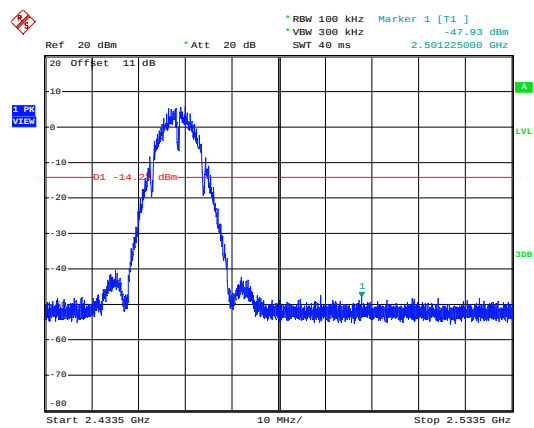
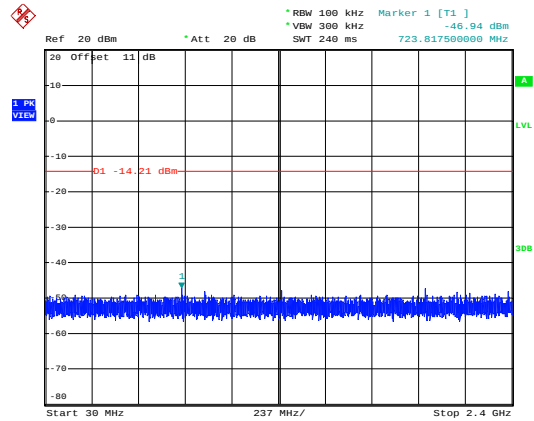
Modulation Type: 802.11b, CH 06





Antenna 2

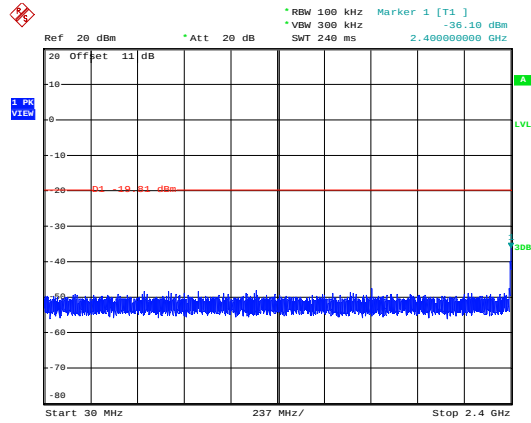
Modulation Type: 802.11b, CH 11



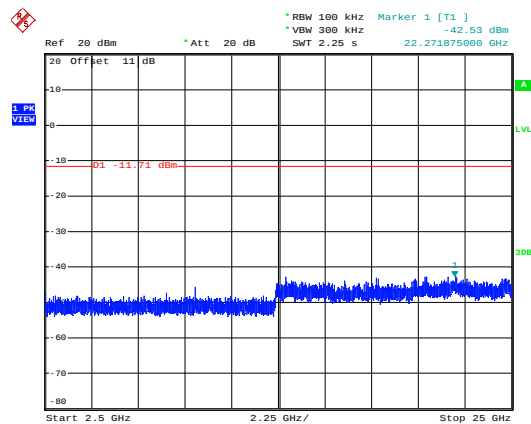
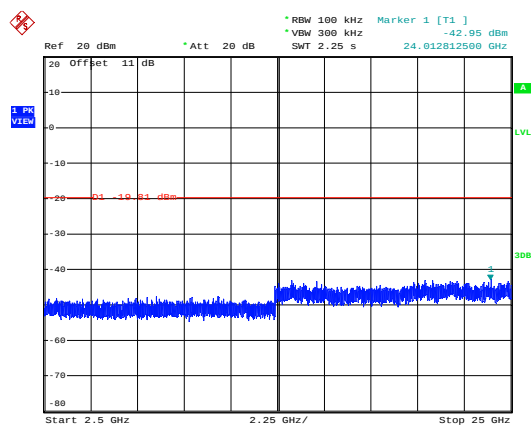
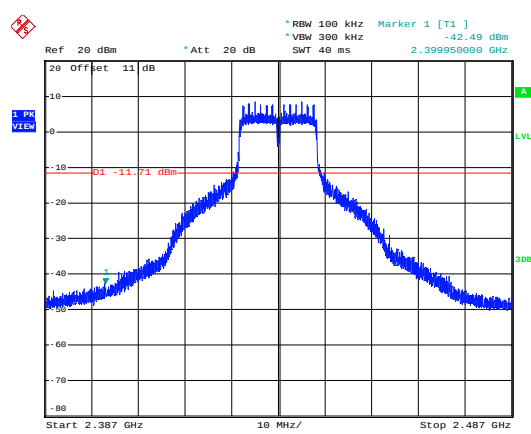
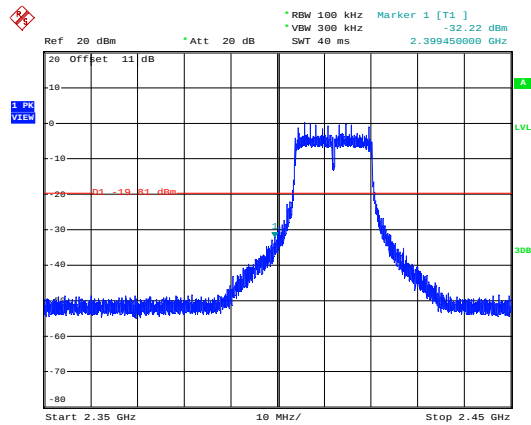
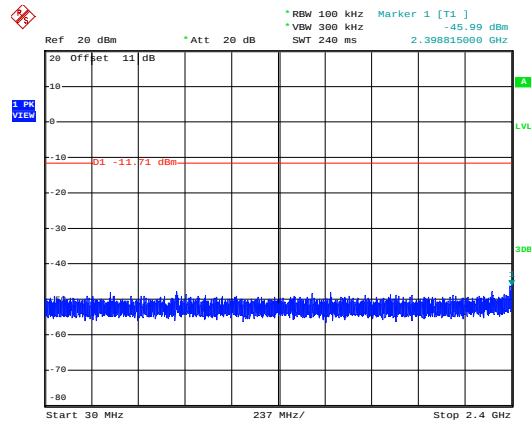


Antenna 2

Modulation Type: 802.11g, CH 01



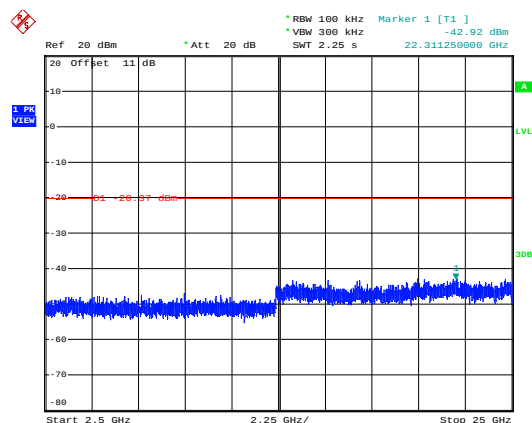
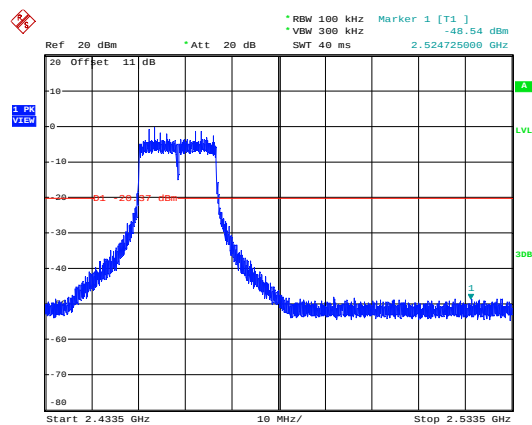
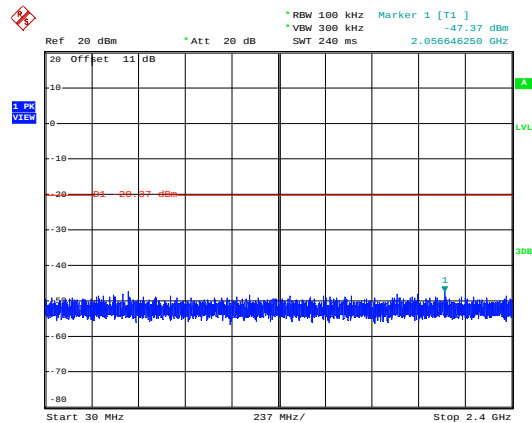
Modulation Type: 802.11g, CH 06





Antenna 2

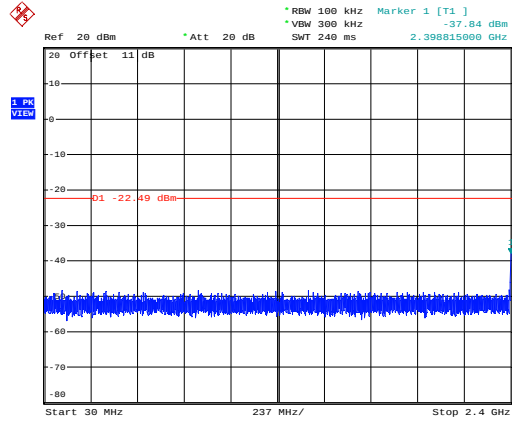
Modulation Type: 802.11g, CH 11



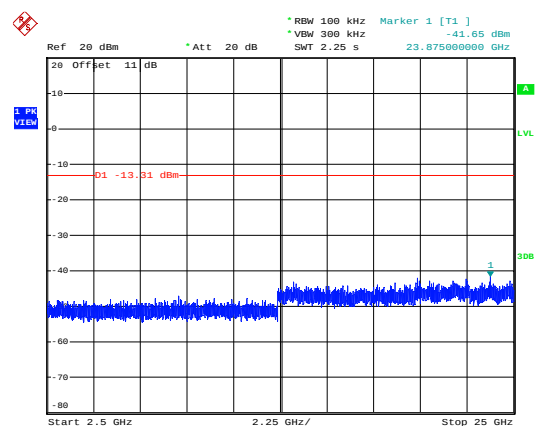
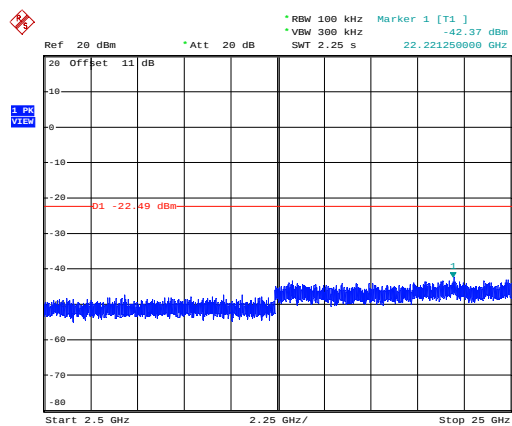
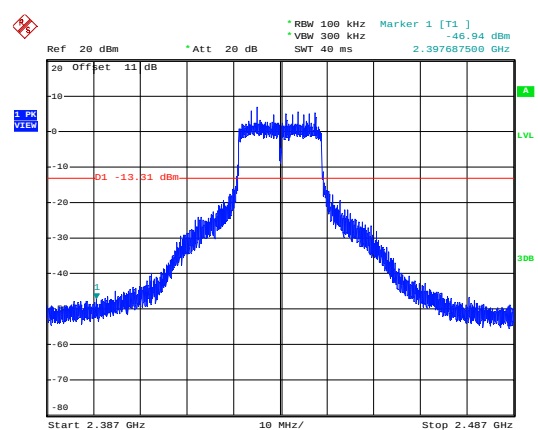
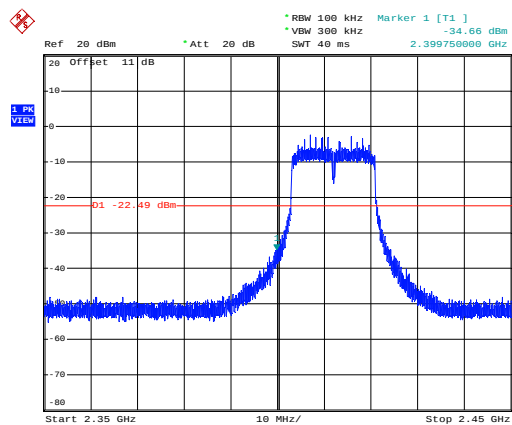
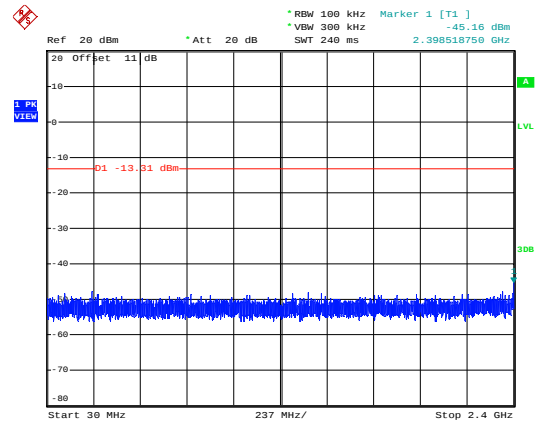


Antenna 2

Modulation Type: 802.11ac VHT20, CH 01



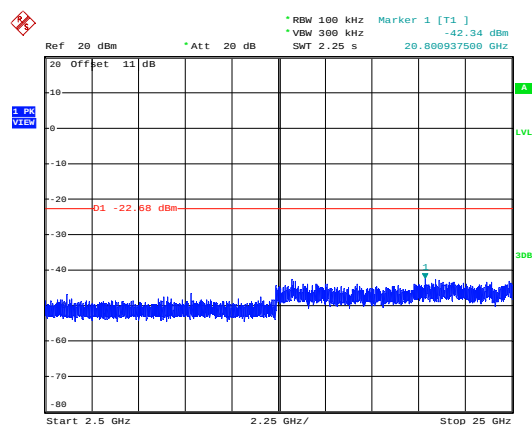
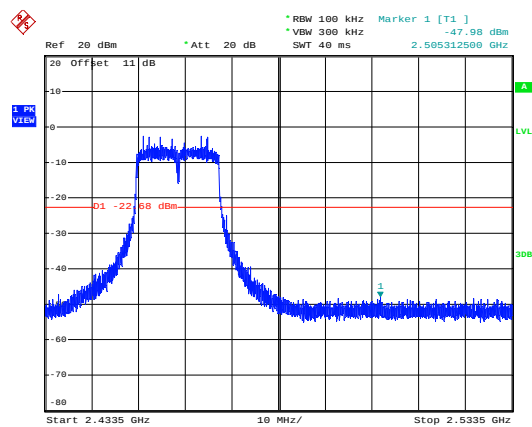
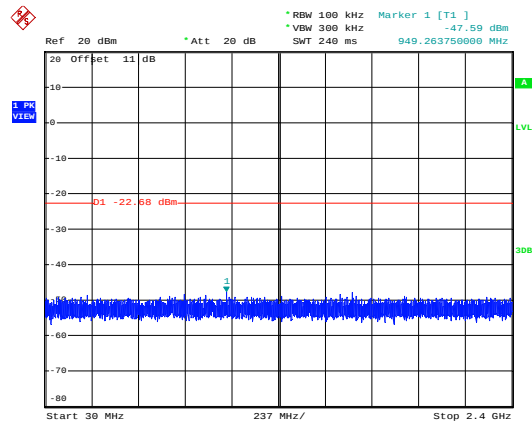
Modulation Type: 802.11ac VHT20, CH 06





Antenna 2

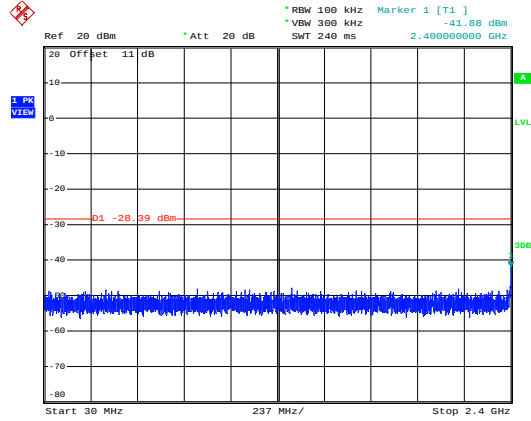
Modulation Type: 802.11ac VHT20, CH 11



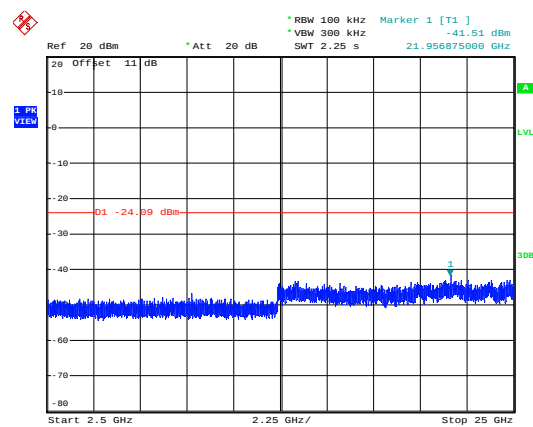
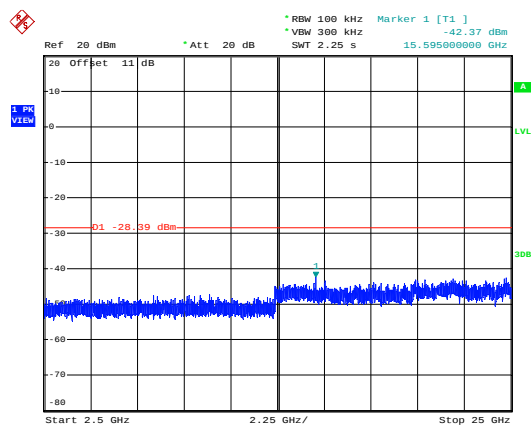
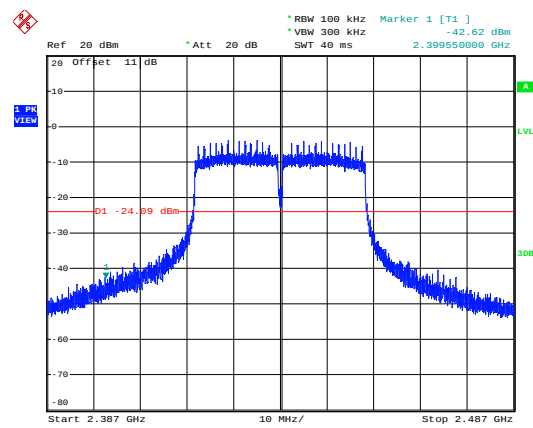
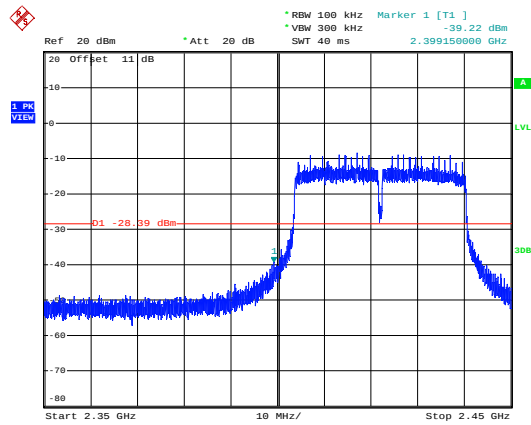
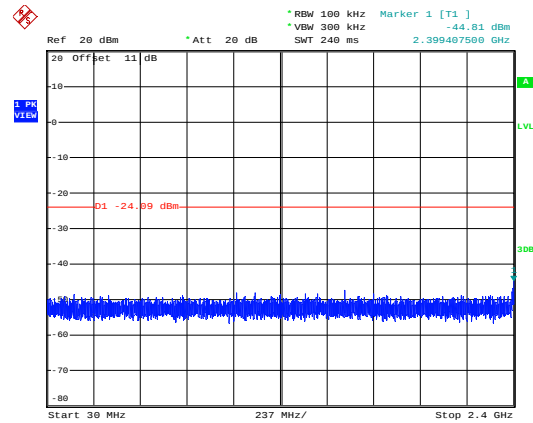


Antenna 2

Modulation Type: 802.11ac VHT40, CH 03



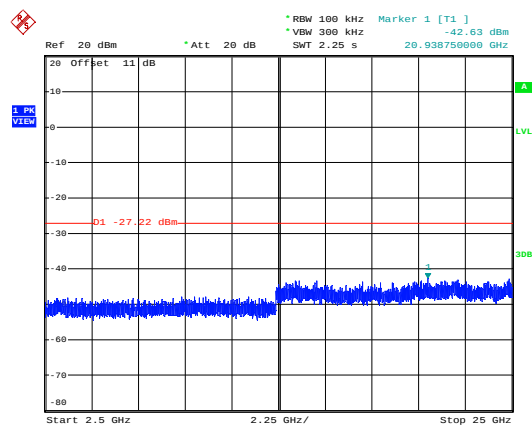
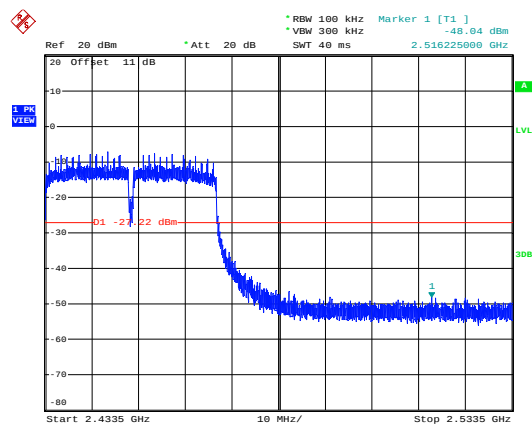
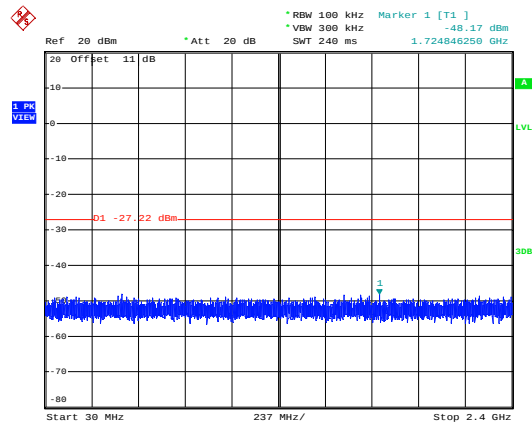
Modulation Type: 802.11ac VHT40, CH 06





Antenna 2

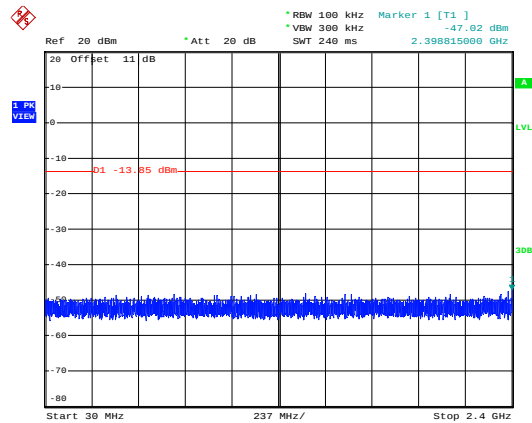
Modulation Type: 802.11ac VHT40, CH 09



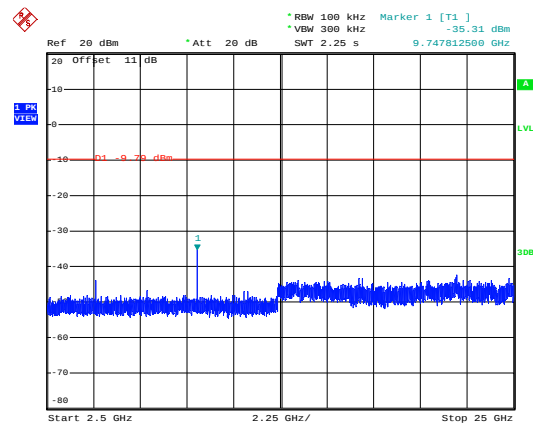
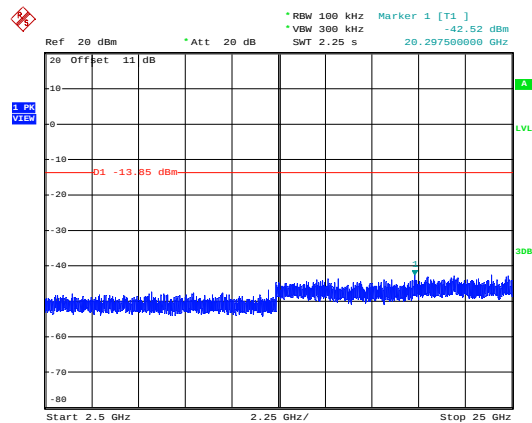
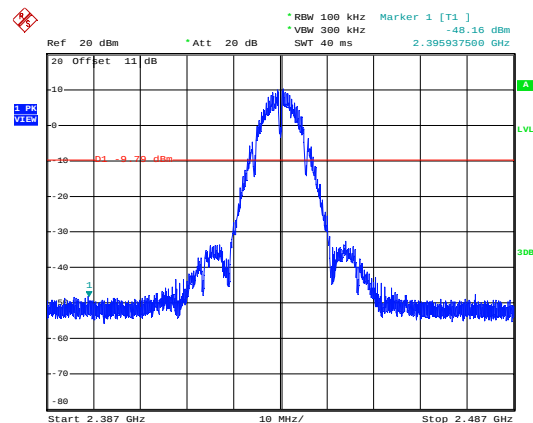
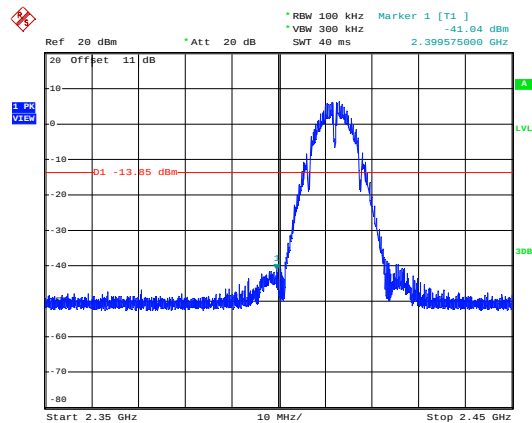
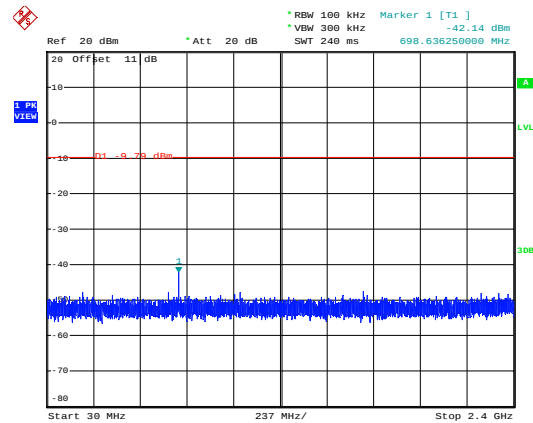


Antenna 3

Modulation Type: 802.11b, CH 01



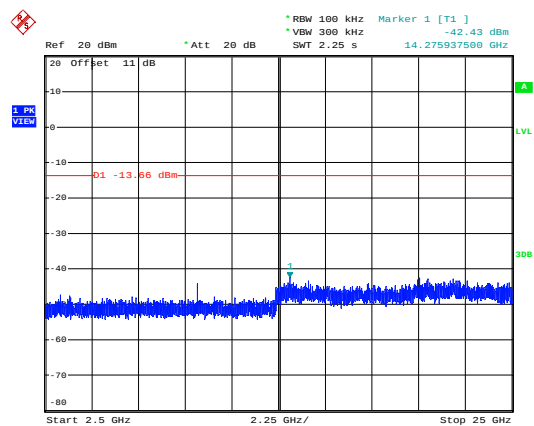
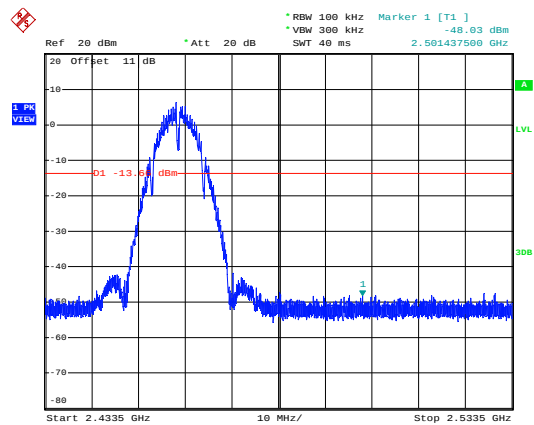
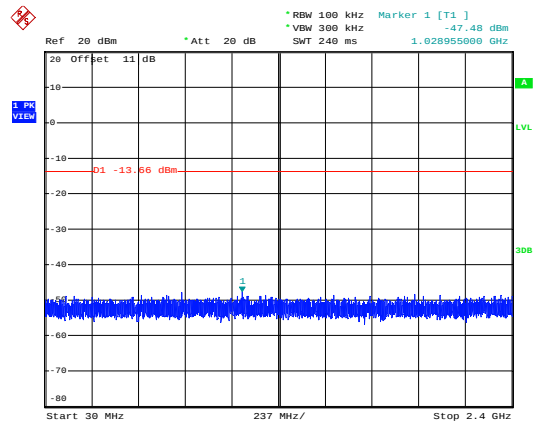
Modulation Type: 802.11b, CH 06





Antenna 3

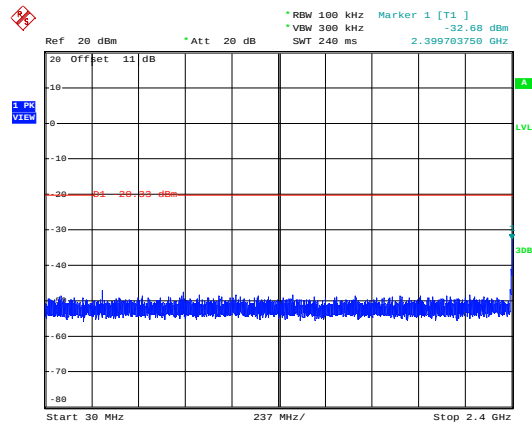
Modulation Type: 802.11b, CH 11



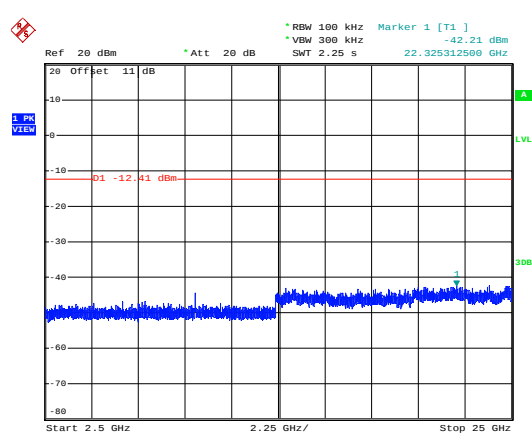
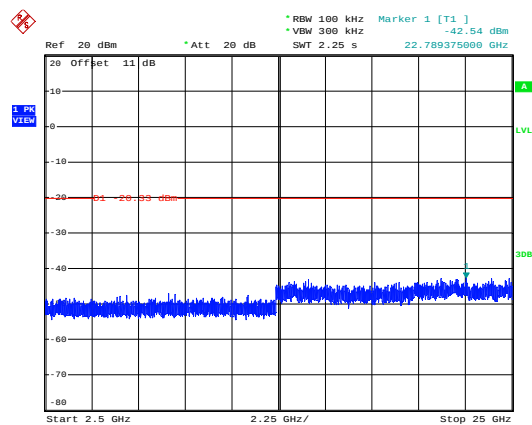
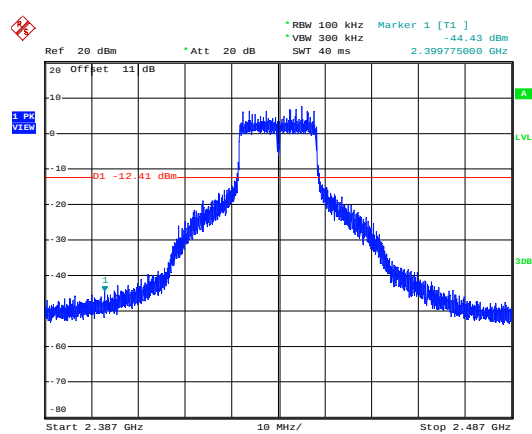
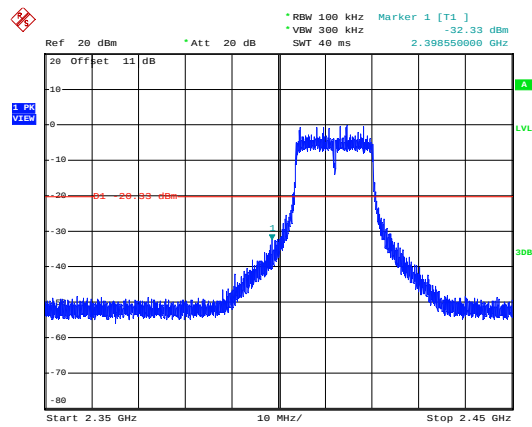
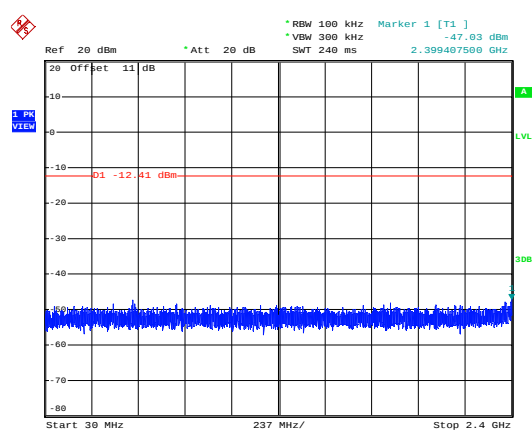


Antenna 3

Modulation Type: 802.11g, CH 01



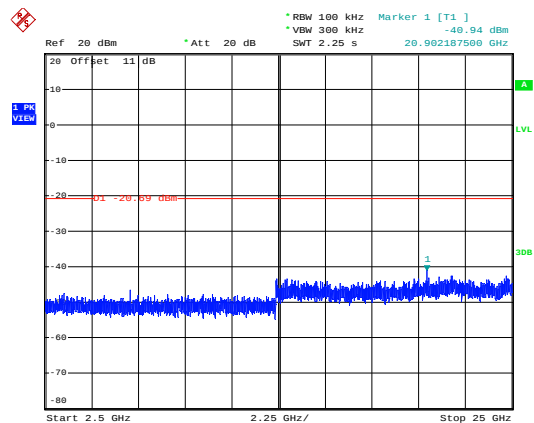
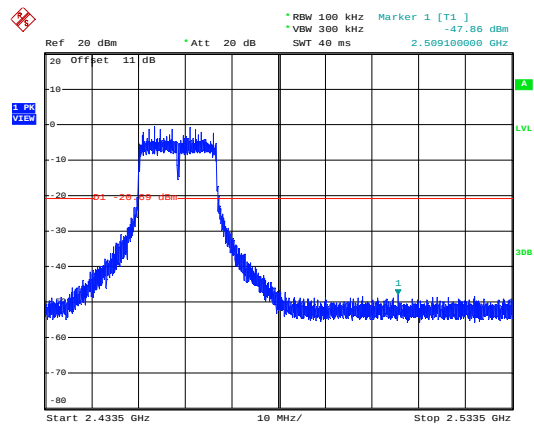
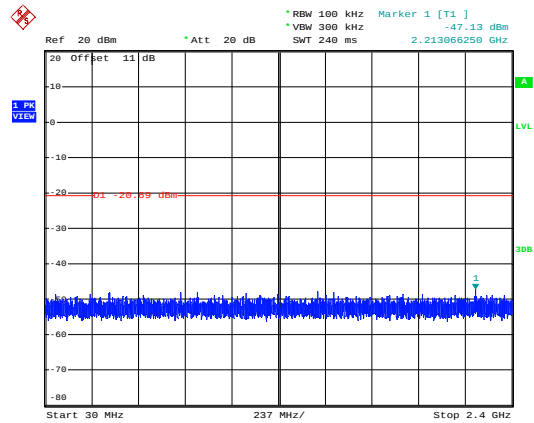
Modulation Type: 802.11g, CH 06





Antenna 3

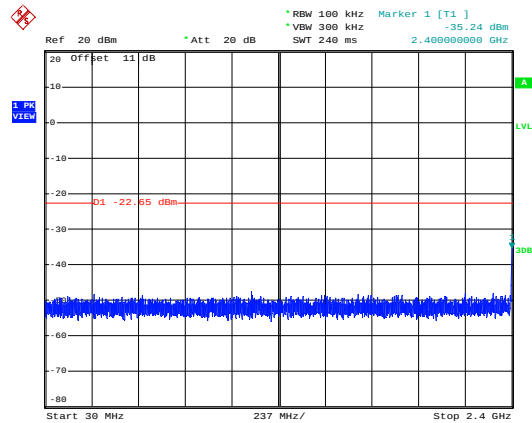
Modulation Type: 802.11g, CH 11



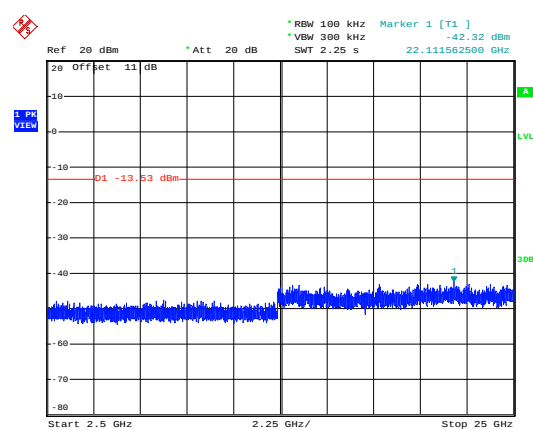
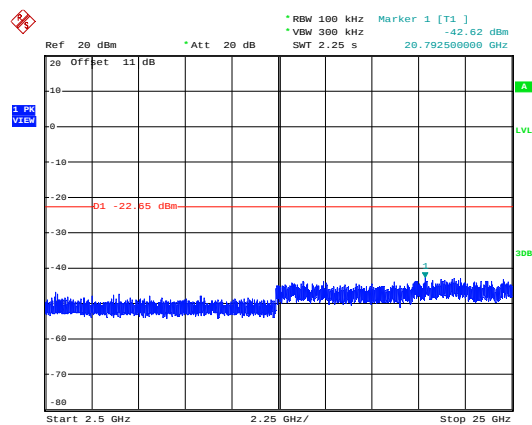
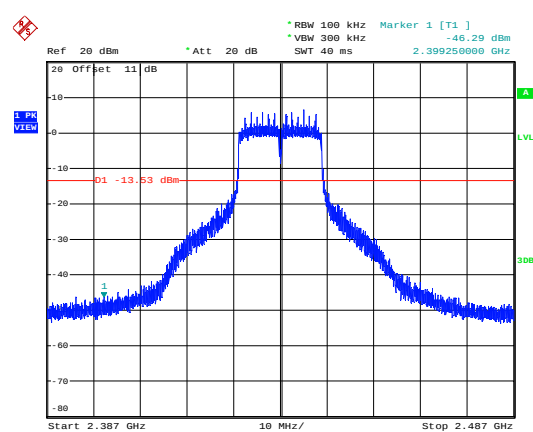
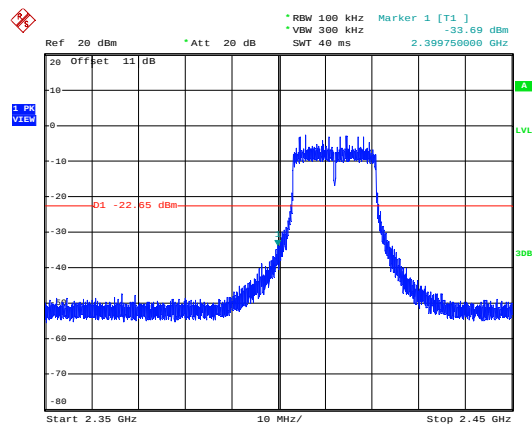
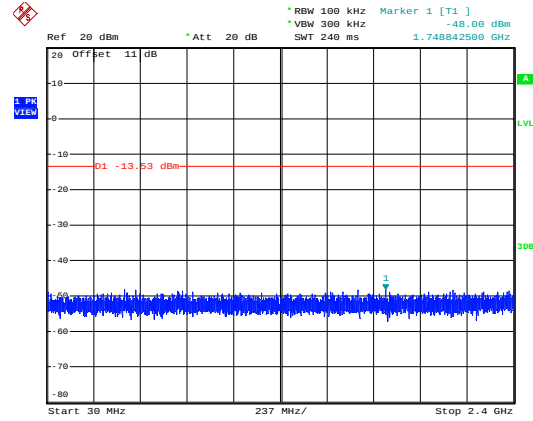


Antenna 3

Modulation Type: 802.11ac VHT20, CH 01



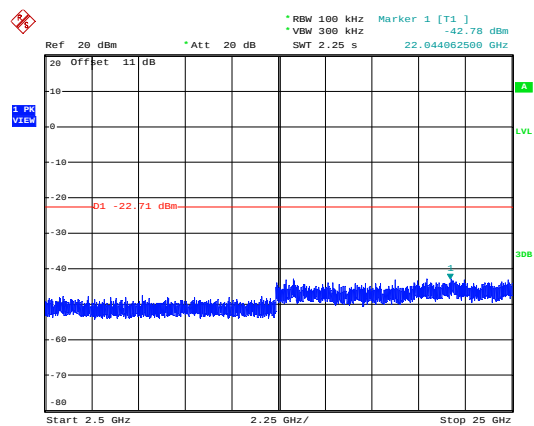
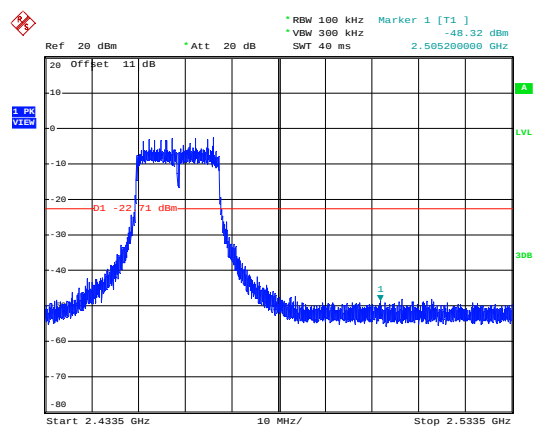
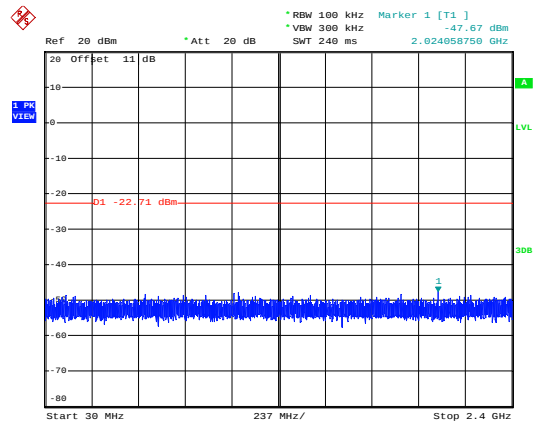
Modulation Type: 802.11ac VHT20, CH 06





Antenna 3

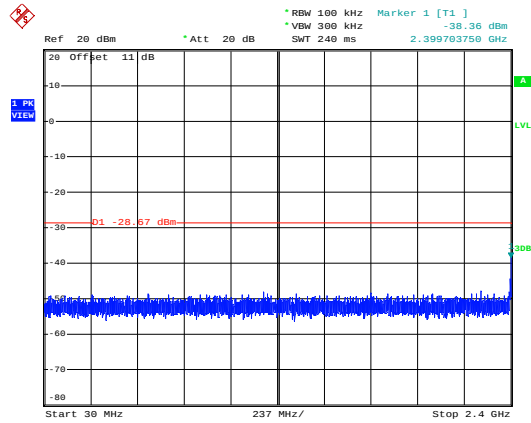
Modulation Type: 802.11ac VHT20, CH 11



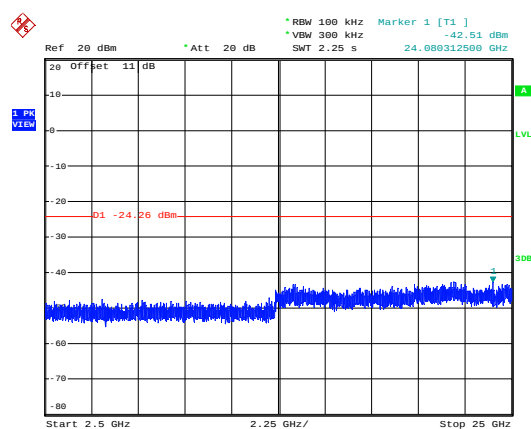
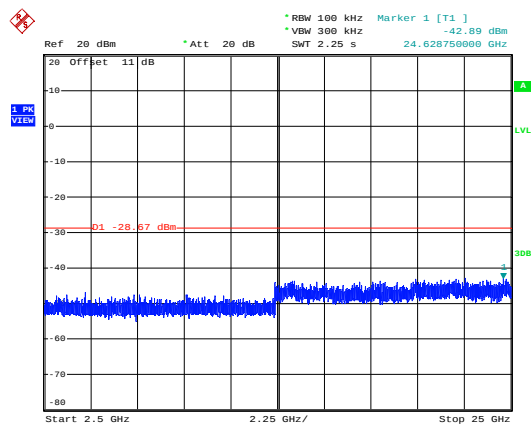
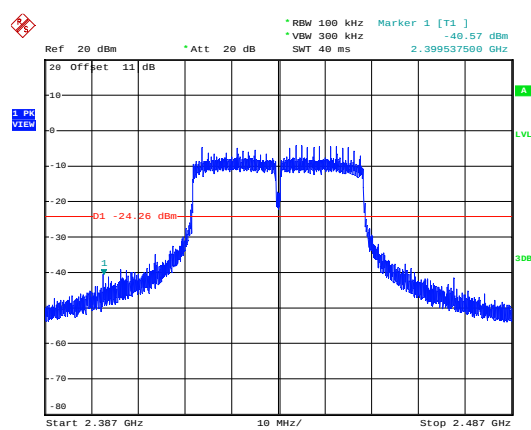
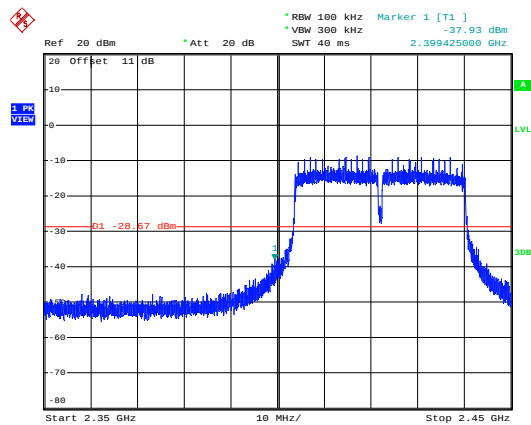
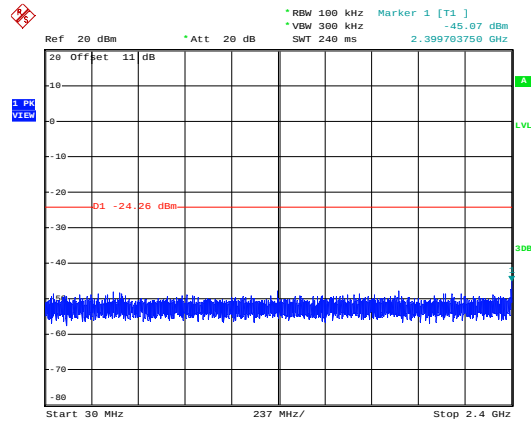


Antenna 3

Modulation Type: 802.11ac VHT40, CH 03



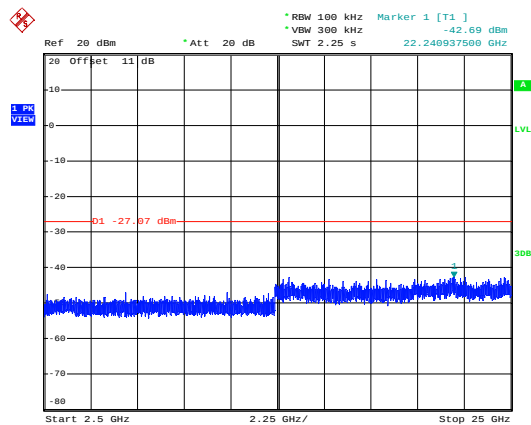
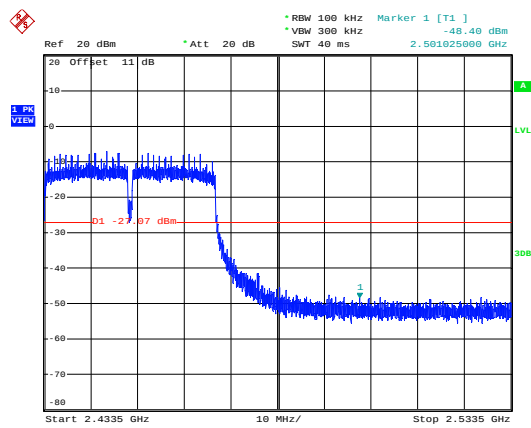
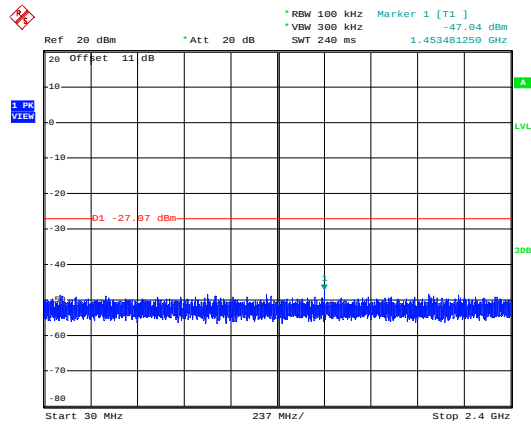
Modulation Type: 802.11ac VHT40, CH 06





Antenna 3

Modulation Type: 802.11ac VHT40, CH 09





8. 6dB Bandwidth Measurement Data

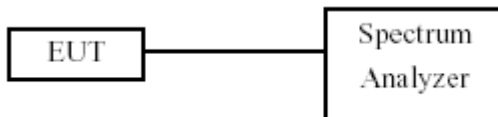
8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

8.2 Test Procedures

- j. The transmitter output was connected to the spectrum analyzer.
- k. Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW $\geq 3 \times$ RBW.
- l. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- m. The 6dB Bandwidth was measured and recorded.

8.3 Test Setup Layout



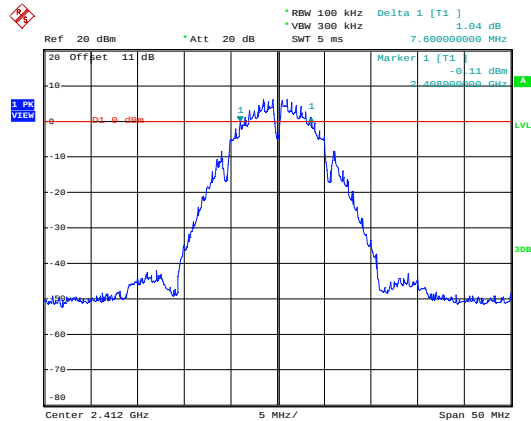
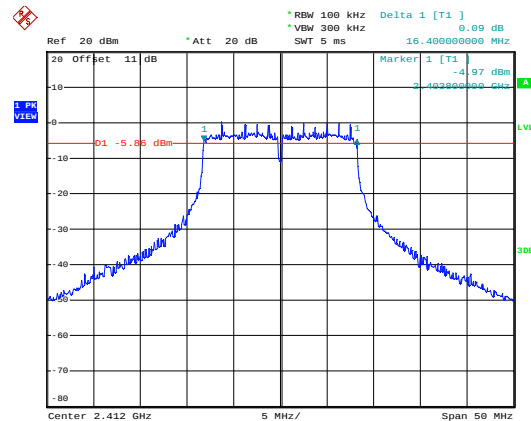
8.4 Test Result and Data

Test Date : Oct. 04, 2016 Temperature : 23°C
Atmospheric pressure : 1015 hPa Humidity : 64%

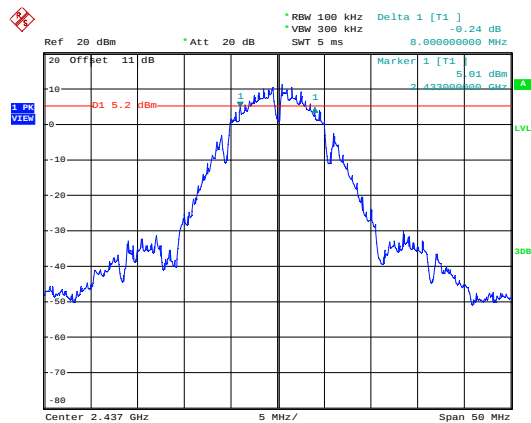
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		
			ANT 1	ANT 2	ANT 3
IEEE 802.11b (1Mbps)	01	2412	7.60	7.10	8.00
	06	2437	8.00	7.50	8.00
	11	2462	7.50	7.50	8.00
IEEE 802.11g (6Mbps)	01	2412	16.40	16.40	16.40
	06	2437	16.40	16.40	16.40
	11	2462	16.30	16.40	16.40
IEEE 802.11ac VHT20 (6.5Mbps)	01	2412	17.60	17.60	17.60
	06	2437	17.60	17.60	17.60
	11	2462	17.50	17.60	17.60
IEEE 802.11ac VHT40 (13.5Mbps)	03	2422	36.20	36.40	36.00
	06	2437	36.40	36.20	36.20
	09	2452	36.40	36.20	36.40



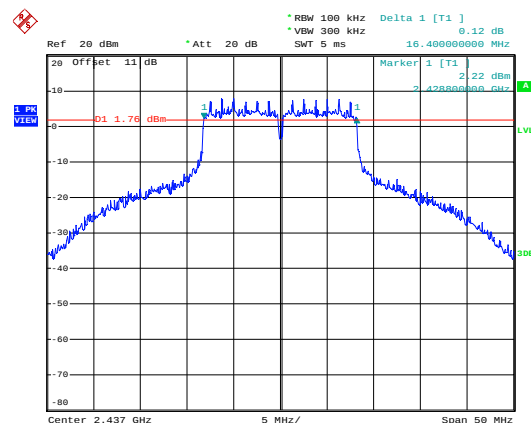
Antenna 1

Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01

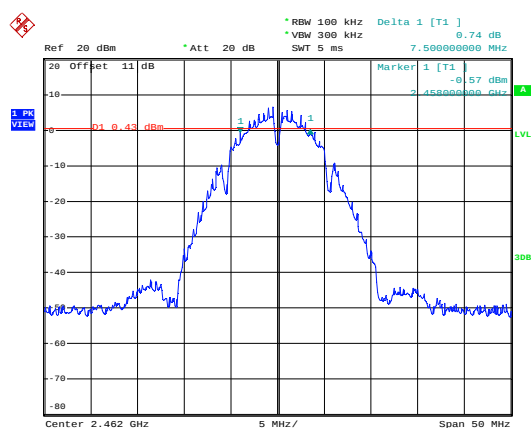
CH06



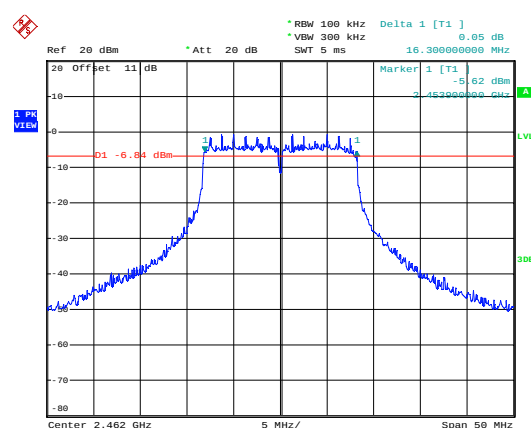
CH06



CH11

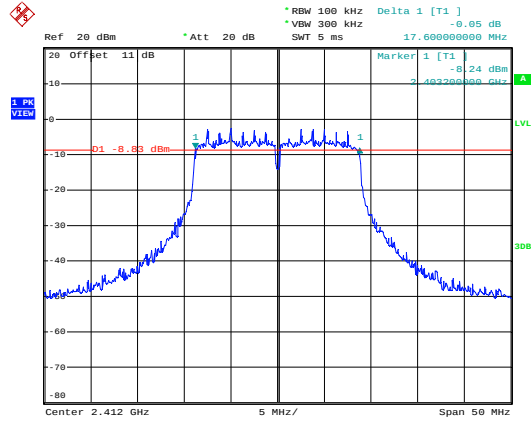
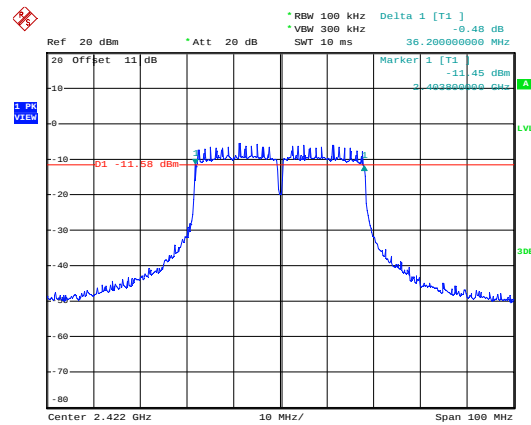


CH11

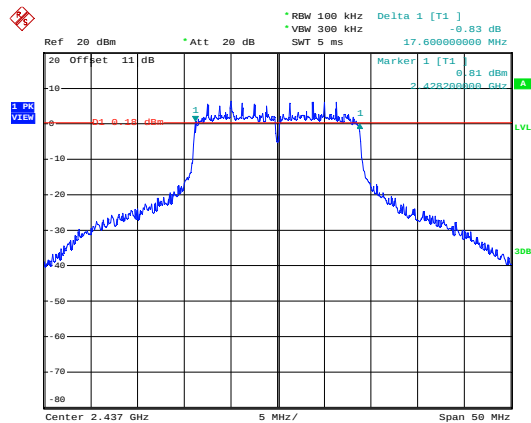




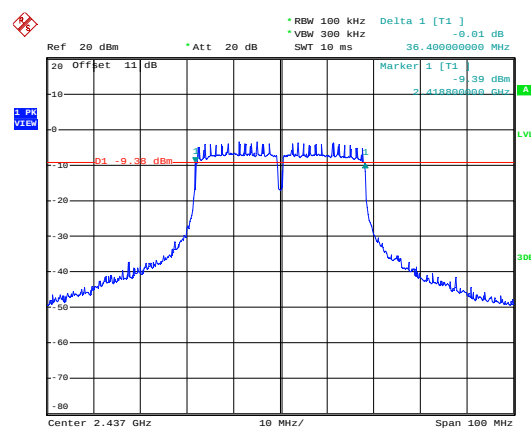
Antenna 1

Modulation Type: 802.11ac VHT20
CH01Modulation Type: 802.11ac VHT40
CH03

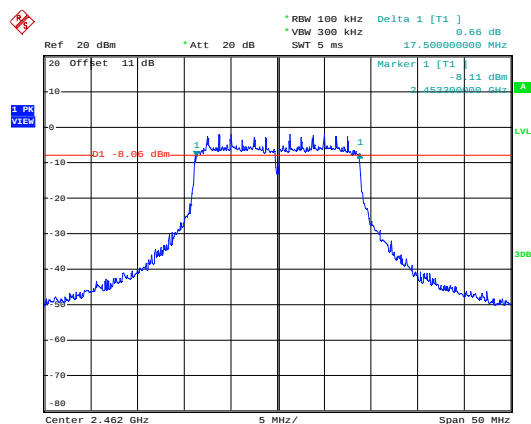
CH06



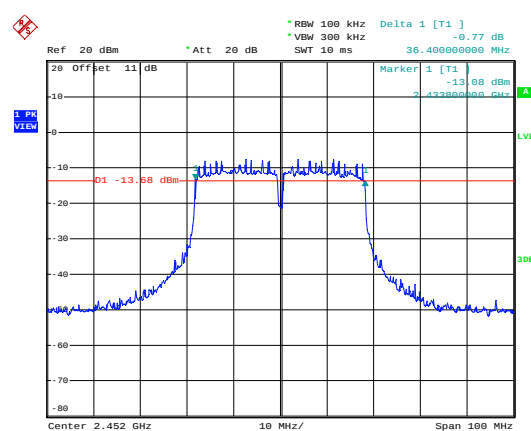
CH06



CH11

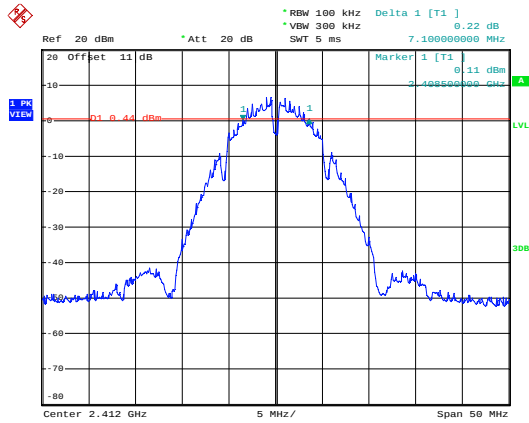
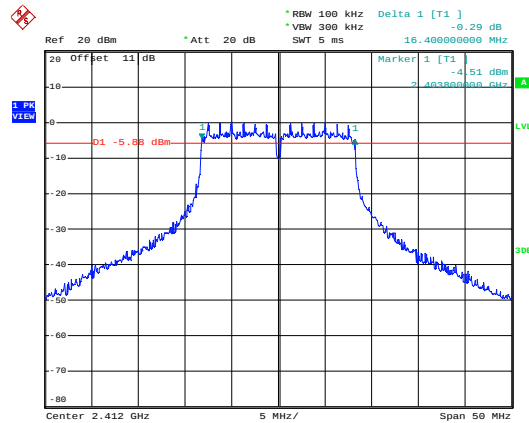


CH09

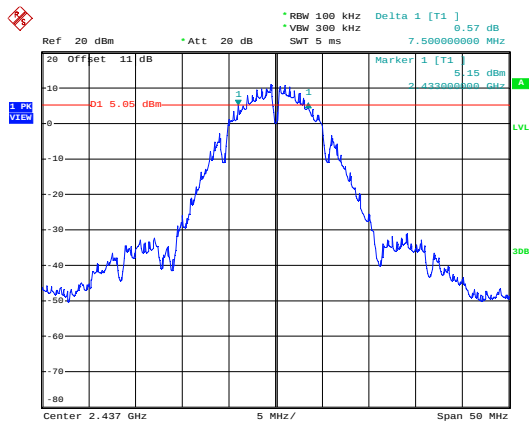




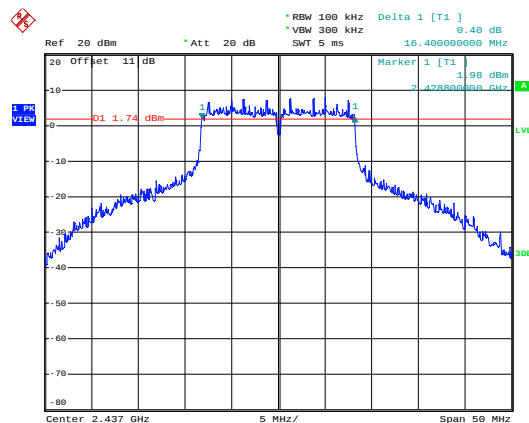
Antenna 2

Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01

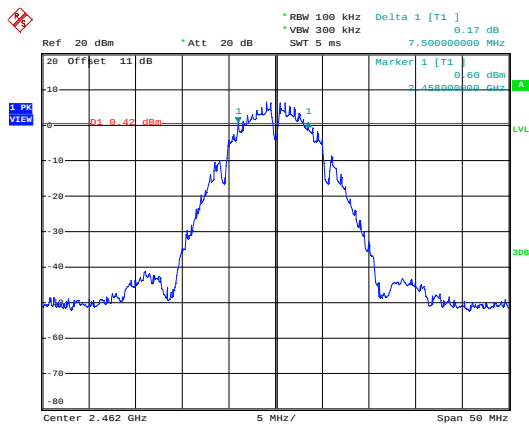
CH06



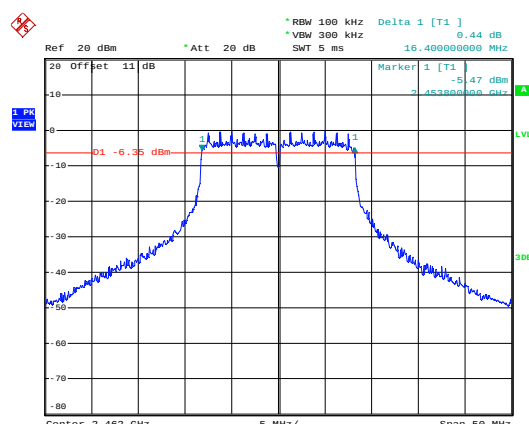
CH06



CH11

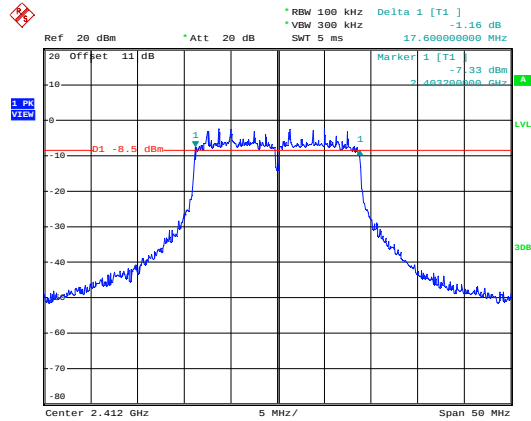
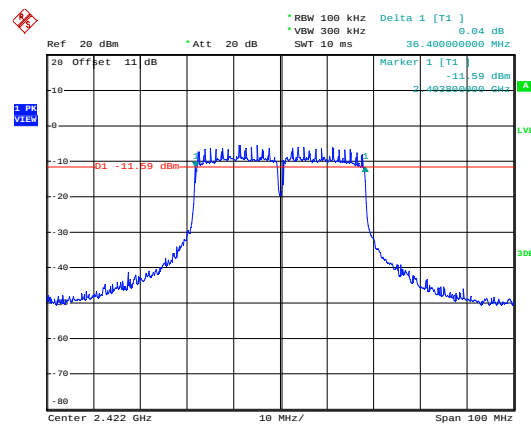


CH11

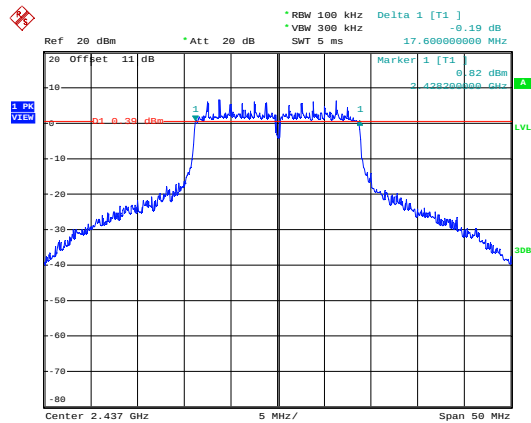




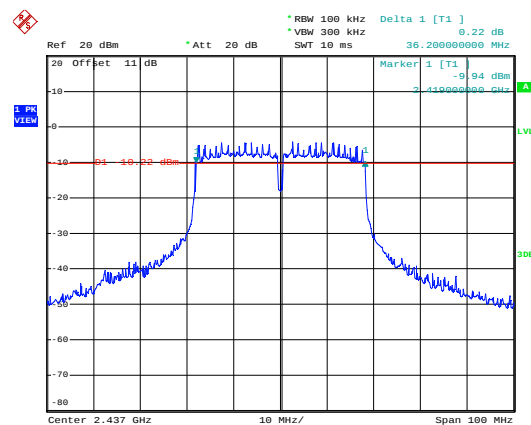
Antenna 2

Modulation Type: 802.11ac VHT20
CH01Modulation Type: 802.11ac VHT40
CH03

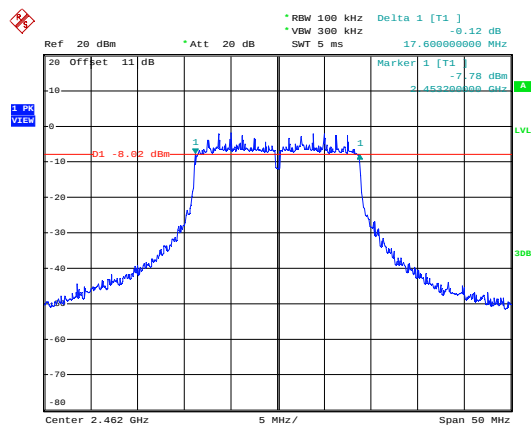
CH06



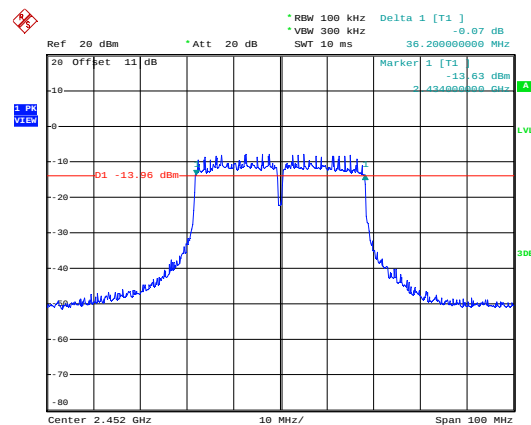
CH06



CH11

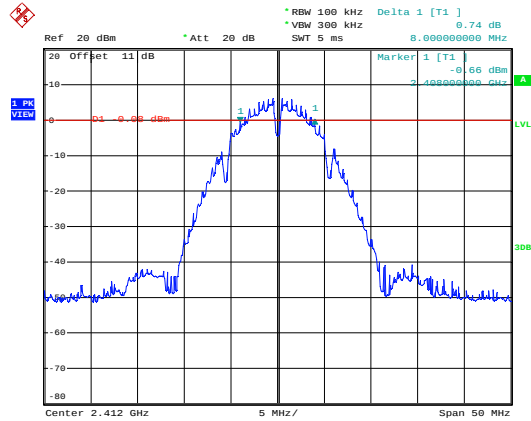
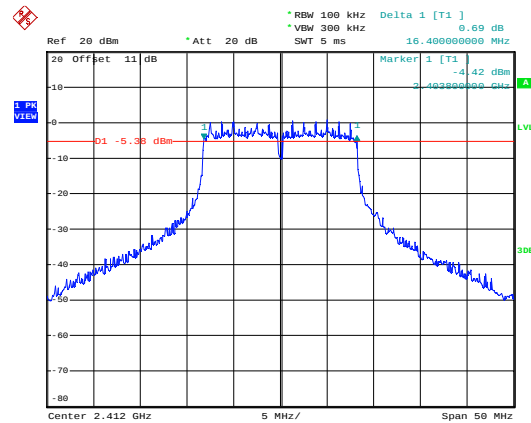


CH09

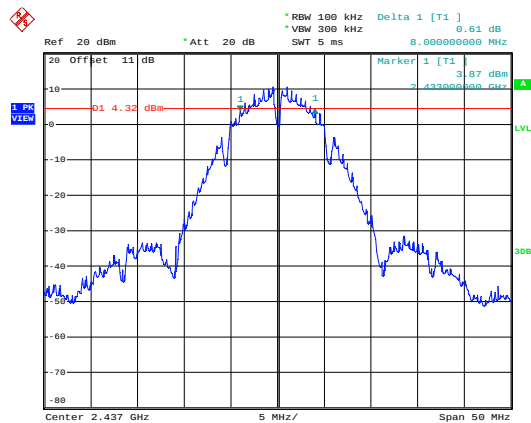




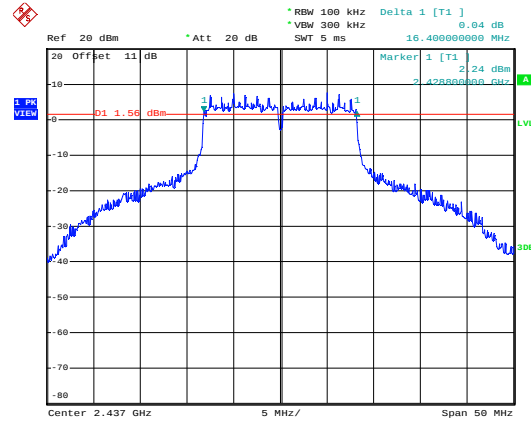
Antenna 3

Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01

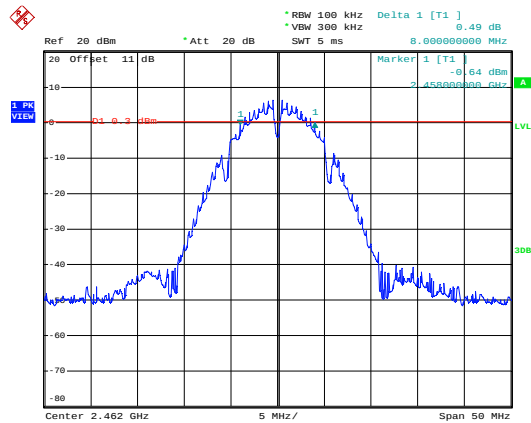
CH06



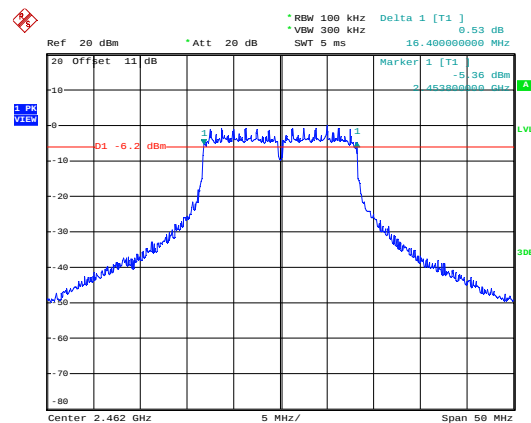
CH06



CH11

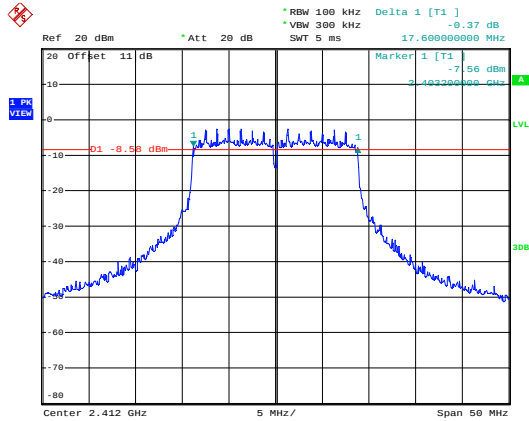
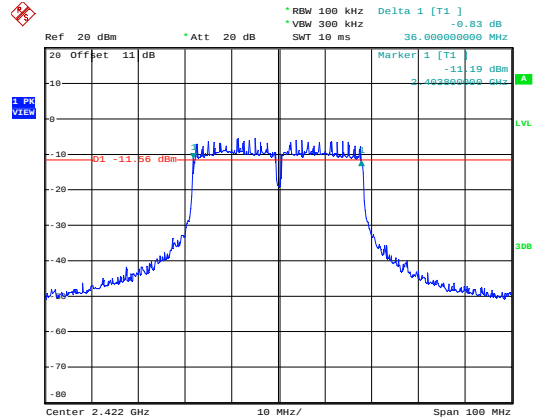


CH11

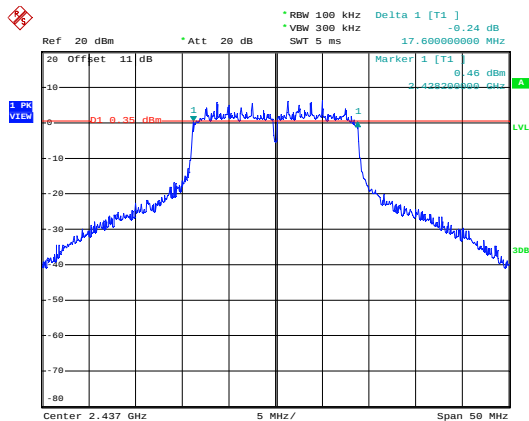




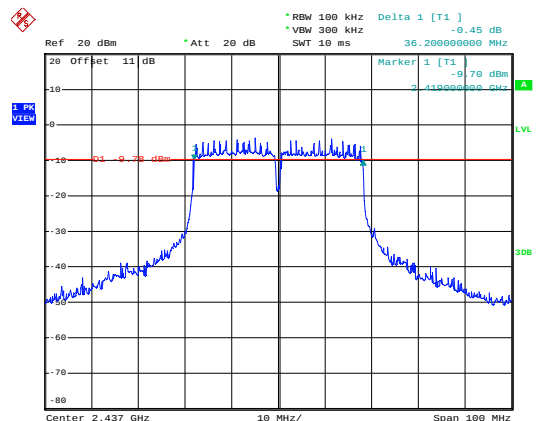
Antenna 3

Modulation Type: 802.11ac VHT20
CH01Modulation Type: 802.11ac VHT40
CH03

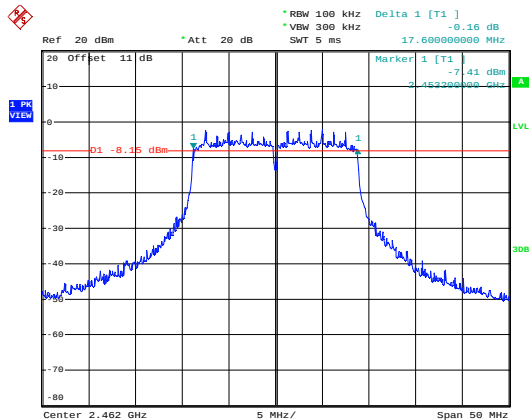
CH06



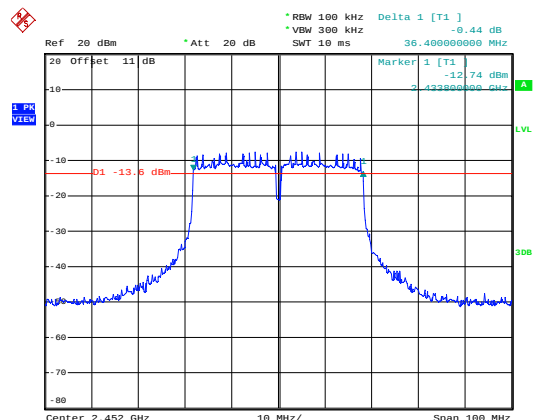
CH06



CH11



CH09





9. Maximum Peak and Average Output Power

9.1 Test Limit

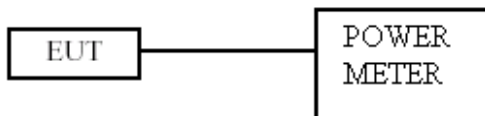
The Maximum Peak Output Power Measurement is 30dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

9.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

9.3 Test Setup Layout





9.4 Test Result and Data

Test Date : Oct. 04, 2016

Temperature : 23°C

Atmospheric pressure : 1015 hPa

Humidity : 64%

Modulation Type	Channel	Frequency (MHz)	Peak Power Output (dBm)				Peak Power Output (mW)			
			ANT 1	ANT 2	ANT 3	1+2+3	ANT 1	ANT 2	ANT 3	1+2+3
IEEE 802.11b (1Mbps)	01	2412	16.67	17.01	16.79	21.60	46.45	50.23	47.75	144.44
	06	2437	21.49	21.55	21.07	26.15	140.93	142.89	127.94	411.76
	11	2462	16.13	16.49	16.33	21.09	41.02	44.57	42.95	128.54
IEEE 802.11g (6Mbps)	01	2412	16.07	16.57	16.48	21.15	40.46	45.39	44.46	130.31
	06	2437	22.23	22.58	21.98	27.04	167.11	181.13	157.76	506.00
	11	2462	15.55	15.97	15.73	20.52	35.89	39.54	37.41	112.84
IEEE 802.11n HT20 (6.5Mbps)	01	2412	13.67	14.08	14.12	18.73	23.28	25.59	25.82	74.69
	06	2437	21.67	22.01	21.49	26.50	146.89	158.85	140.93	446.68
	11	2462	14.12	14.48	14.28	19.07	25.82	28.05	26.79	80.67
IEEE 802.11n HT40 (13.5Mbps)	03	2422	10.49	10.88	10.91	15.54	11.19	12.25	12.33	35.77
	06	2437	15.62	15.73	15.43	20.37	36.48	37.41	34.91	108.80
	09	2452	11.88	12.19	12.24	16.88	15.42	16.56	16.75	48.72
IEEE 802.11ac VHT20 (6.5Mbps)	01	2412	13.7	14.13	14.15	18.77	23.44	25.88	26.00	75.33
	06	2437	21.7	22.03	21.54	26.53	147.91	159.59	142.56	450.06
	11	2462	14.14	14.56	14.31	19.11	25.94	28.58	26.98	81.50
IEEE 802.11ac VHT40 (13.5Mbps)	03	2422	10.52	10.94	10.95	15.58	11.27	12.42	12.45	36.13
	06	2437	15.67	15.8	15.5	20.43	36.90	38.02	35.48	110.40
	09	2452	11.92	12.23	12.28	16.92	15.56	16.71	16.90	49.17



Modulation Type	Channel	Frequency (MHz)	Avg. Power Output (dBm)				Avg. Power Output (mW)			
			ANT 1	ANT 2	ANT 3	1+2+3	ANT 1	ANT 2	ANT 3	1+2+3
IEEE 802.11b (1Mbps)	01	2412	10.83	11.16	11.03	15.78	12.11	13.06	12.68	37.84
	06	2437	16.06	16.05	15.61	20.68	40.36	40.27	36.39	117.03
	11	2462	10.2	10.59	10.48	15.20	10.47	11.46	11.17	33.10
IEEE 802.11g (6Mbps)	01	2412	10.2	10.76	10.73	15.34	10.47	11.91	11.83	34.21
	06	2437	17.92	18.29	17.67	22.74	61.94	67.45	58.48	187.88
	11	2462	9.67	10.12	9.96	14.69	9.27	10.28	9.91	29.46
IEEE 802.11n HT20 (6.5Mbps)	01	2412	7.79	8.21	8.31	12.88	6.01	6.62	6.78	19.41
	06	2437	16.61	17.01	16.51	21.49	45.81	50.23	44.77	140.82
	11	2462	8.19	8.61	8.41	13.18	6.59	7.26	6.93	20.79
IEEE 802.11n HT40 (13.5Mbps)	03	2422	4.51	4.97	4.99	9.60	2.82	3.14	3.16	9.12
	06	2437	9.69	9.78	9.61	14.47	9.31	9.51	9.14	27.96
	09	2452	5.85	6.18	6.28	10.88	3.85	4.15	4.25	12.24
IEEE 802.11ac VHT20 (6.5Mbps)	01	2412	7.81	8.28	8.35	12.92	6.04	6.73	6.84	19.61
	06	2437	16.65	17.04	16.54	21.52	46.24	50.58	45.08	141.90
	11	2462	8.23	8.67	8.49	13.24	6.65	7.36	7.06	21.08
IEEE 802.11ac VHT40 (13.5Mbps)	03	2422	4.59	5.01	5.02	9.65	2.88	3.17	3.18	9.22
	06	2437	9.72	9.86	9.65	14.52	9.38	9.68	9.23	28.28
	09	2452	5.89	6.21	6.34	10.92	3.88	4.18	4.31	12.37



10. Power Spectral Density

10.1 Test Limit

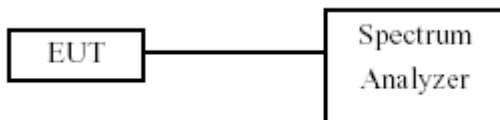
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

- The transmitter output was connected to spectrum analyzer.
- The spectrum analyzer's resolution bandwidth were set at 3kHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- The power spectral density was measured and recorded.

10.3 Test Setup Layout



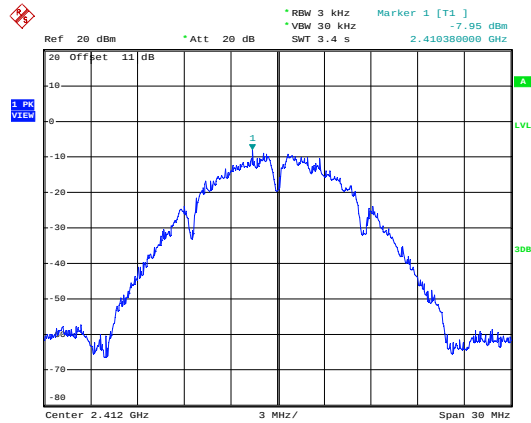
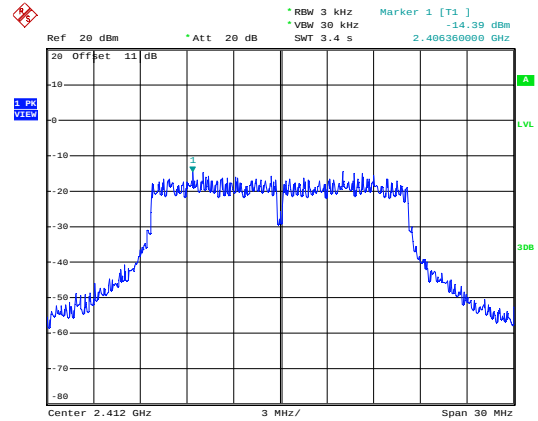
10.4 Test Result and Data

Test Date : Oct. 04, 2016 Temperature : 23°C
Atmospheric pressure : 1015 hPa Humidity : 64%

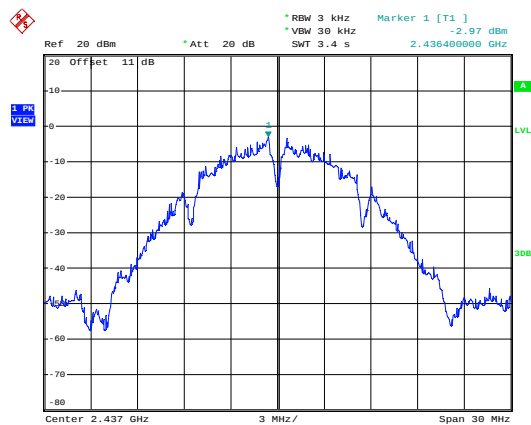
Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)			
			ANT1	ANT 2	ANT 3	1+2+3
IEEE 802.11b (1Mbps)	01	2412	-7.95	-6.59	-8.13	-2.73
	06	2437	-2.97	-4.1	-3.53	1.26
	11	2462	-8.65	-7.41	-7.42	-3.02
IEEE 802.11g (6Mbps)	01	2412	-14.39	-14.66	-14.08	-9.60
	06	2437	-7.42	-5.46	-7.44	-1.90
	11	2462	-14.55	-15.22	-15.12	-10.18
IEEE 802.11ac VHT20 (6.5Mbps)	01	2412	-17.02	-18.18	-16.88	-12.55
	06	2437	-8.91	-8.83	-7.8	-3.71
	11	2462	-15.76	-17.26	-15.84	-11.46
IEEE 802.11ac VHT40 (13.5Mbps)	03	2422	-20.33	-20.49	-20.63	-15.71
	06	2437	-17.57	-18.48	-18.81	-13.48
	09	2452	-22.23	-22.13	-22.45	-17.50



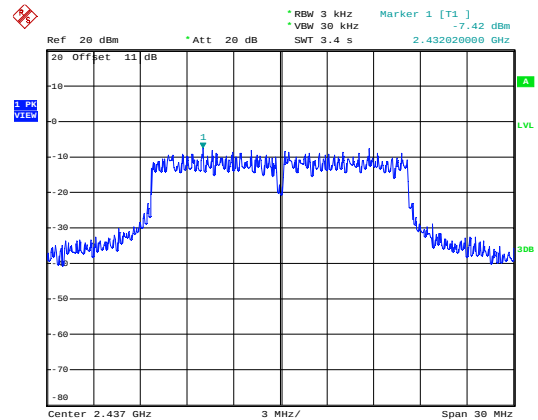
Antenna 1

Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01

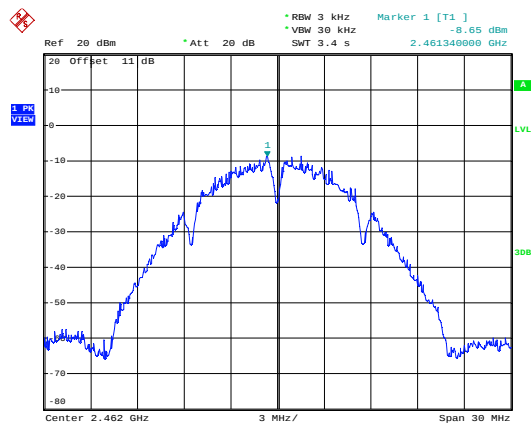
CH06



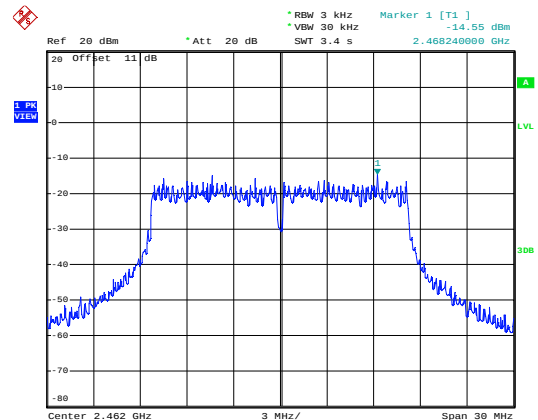
CH06



CH11



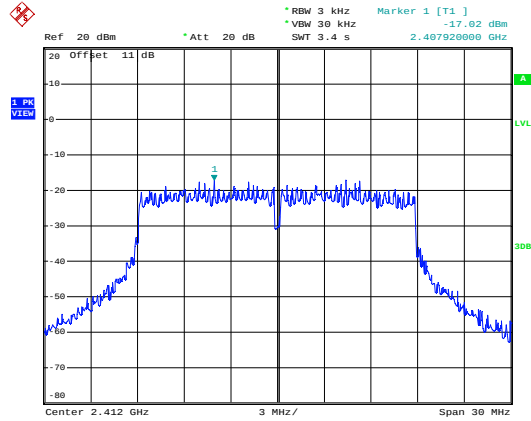
CH11



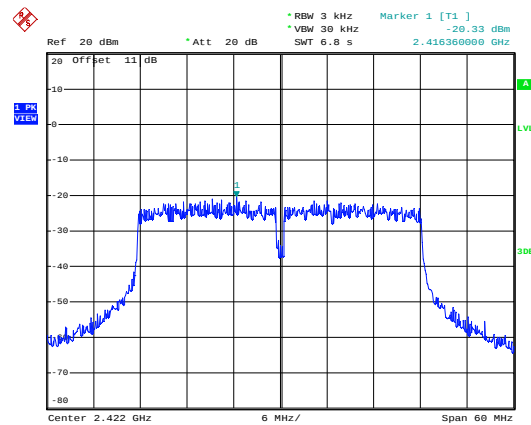


Antenna 1

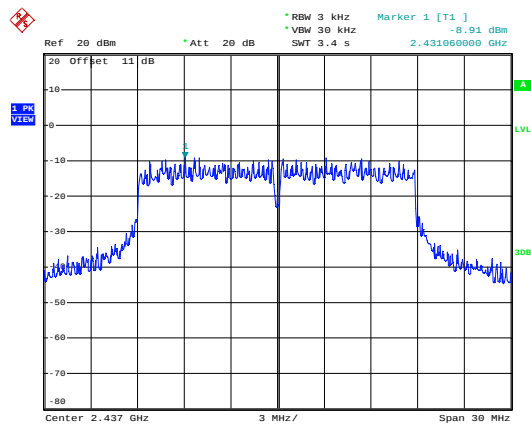
Modulation Type: 802.11ac VHT20
CH01



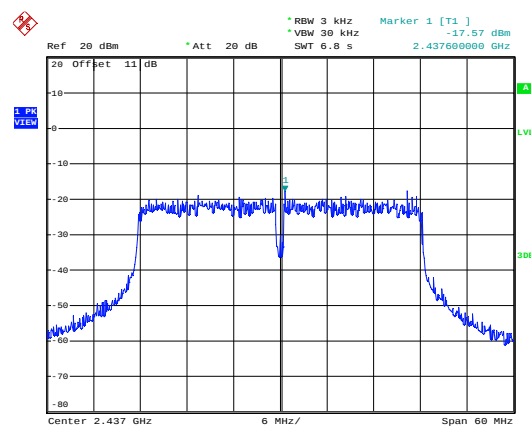
Modulation Type: 802.11ac VHT40
CH03



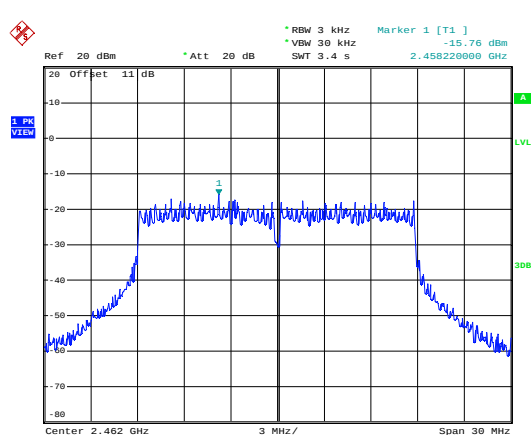
CH06



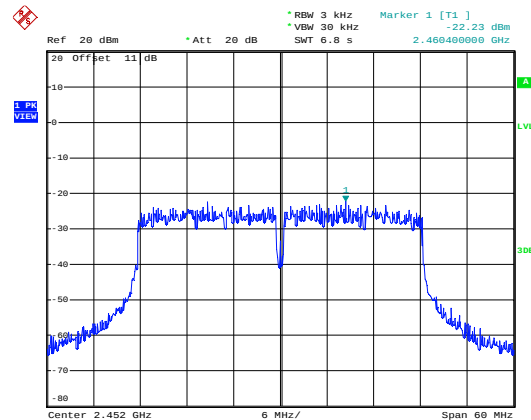
CH06



CH11



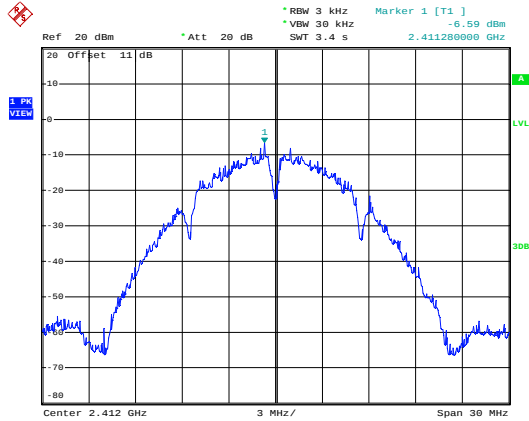
CH09



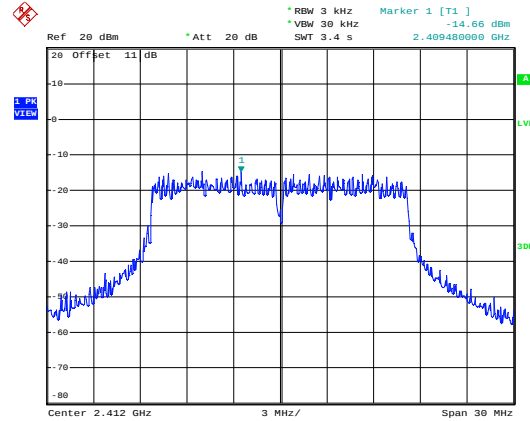


Antenna 2

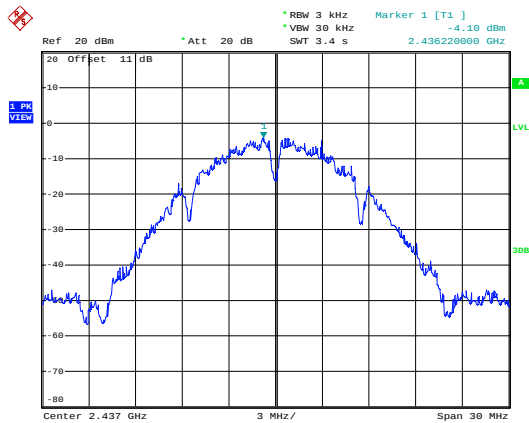
Modulation Type: 802.11b
CH01



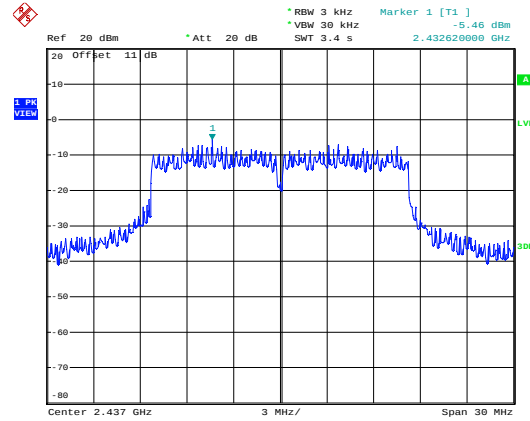
Modulation Type: 802.11b
CH01



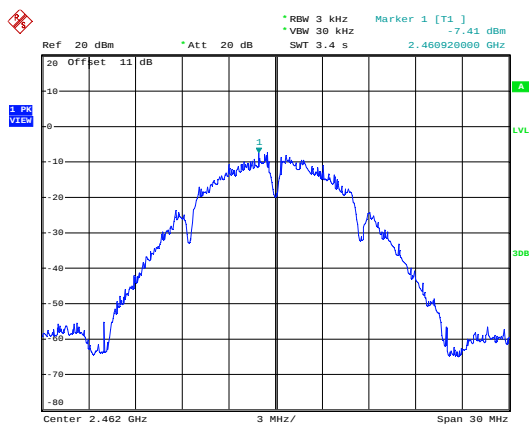
CH06



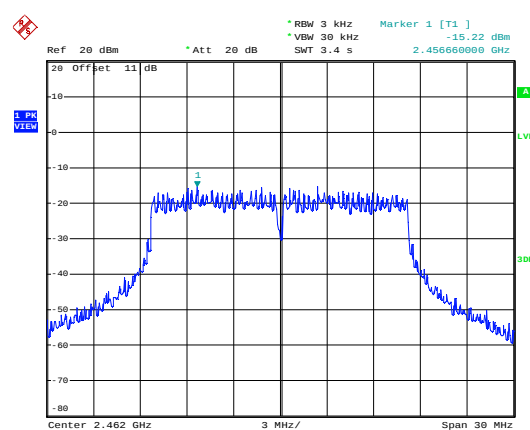
CH06



CH11

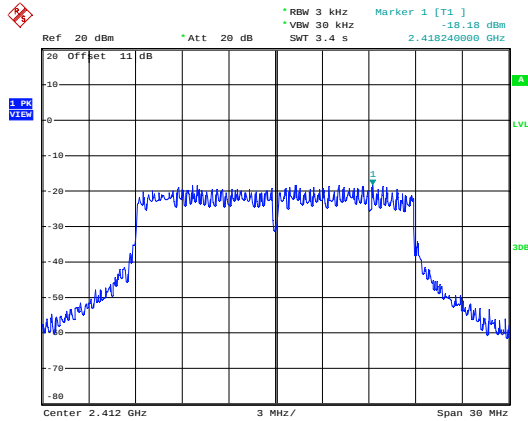
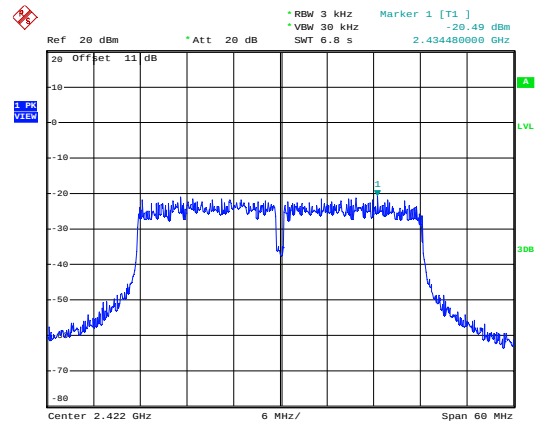


CH11

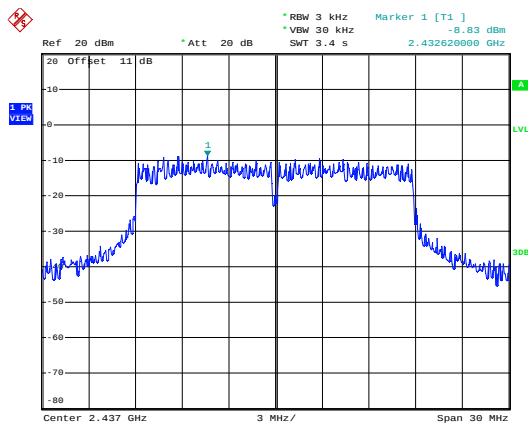




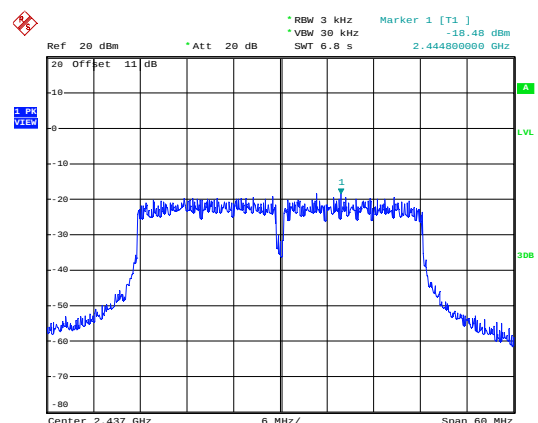
Antenna 2

Modulation Type: 802.11ac VHT20
CH01Modulation Type: 802.11ac VHT40
CH03

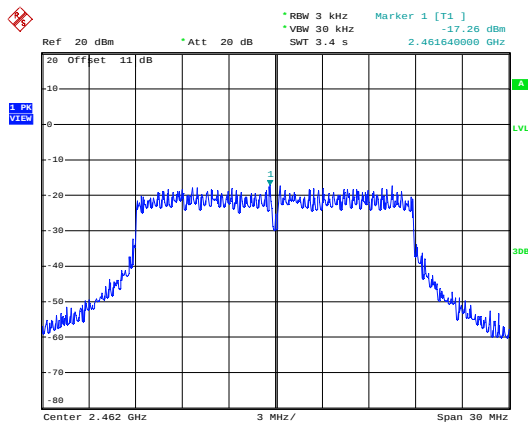
CH06



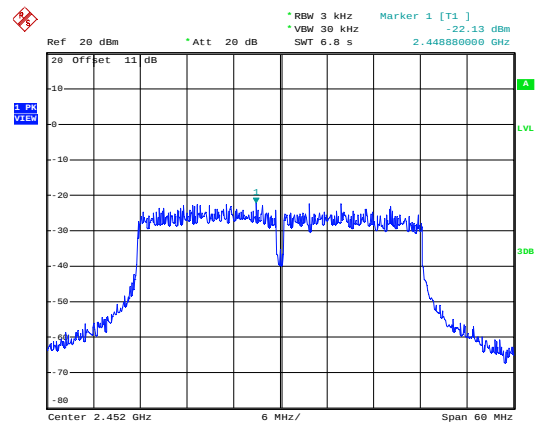
CH06



CH11



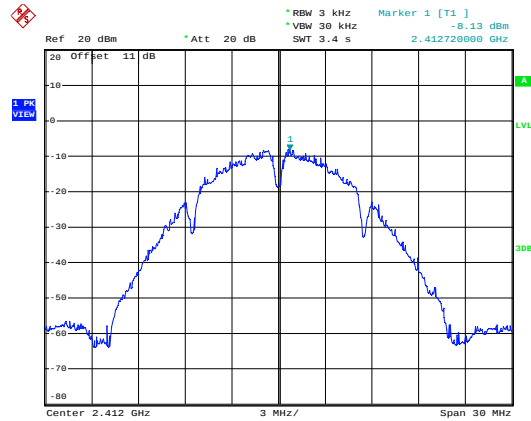
CH09



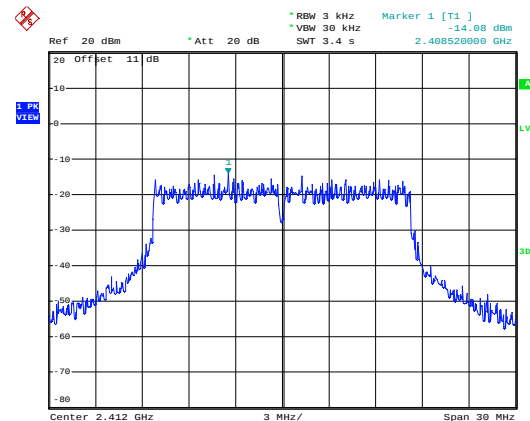


Antenna 3

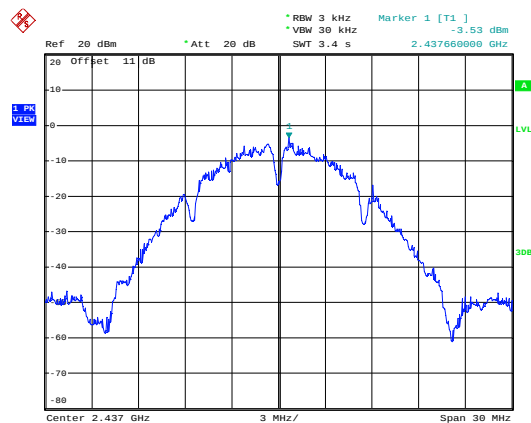
Modulation Type: 802.11b
CH01



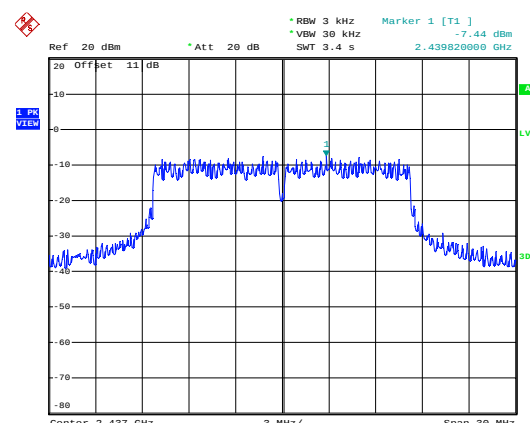
Modulation Type: 802.11g
CH01



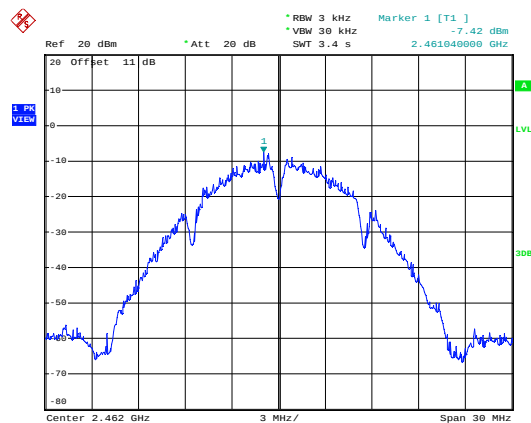
CH06



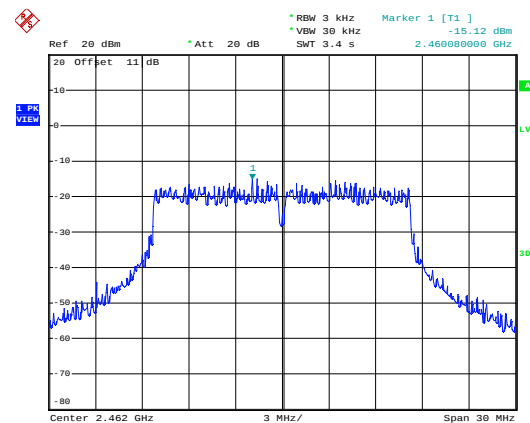
CH06



CH11

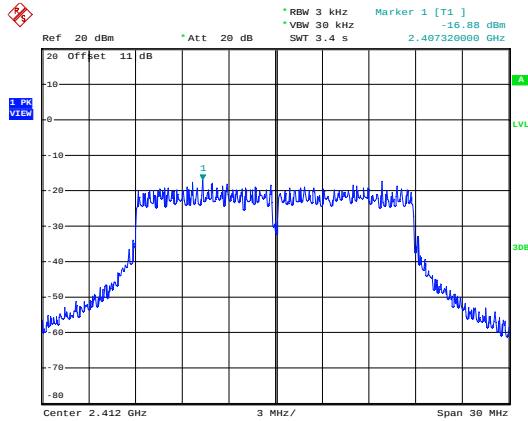
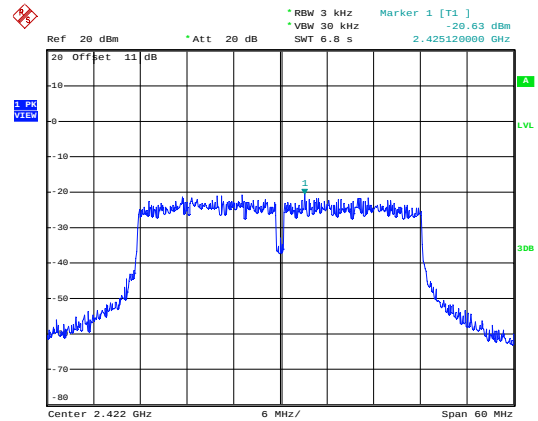


CH11

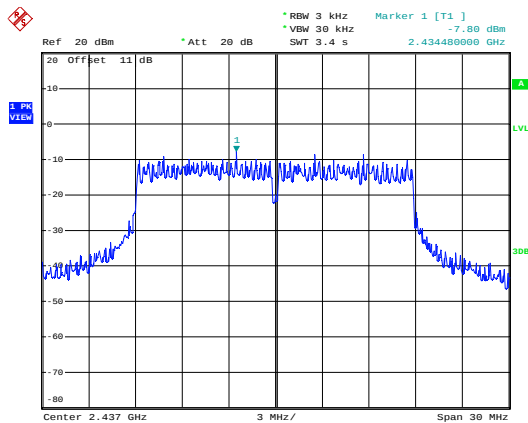




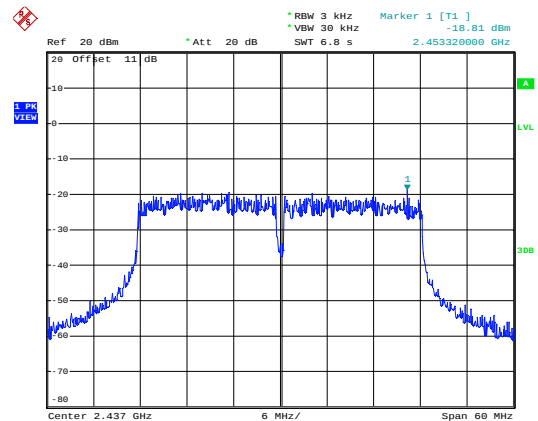
Antenna 3

Modulation Type: 802.11av VHT20
CH01Modulation Type: 802.11ac VHT40
CH03

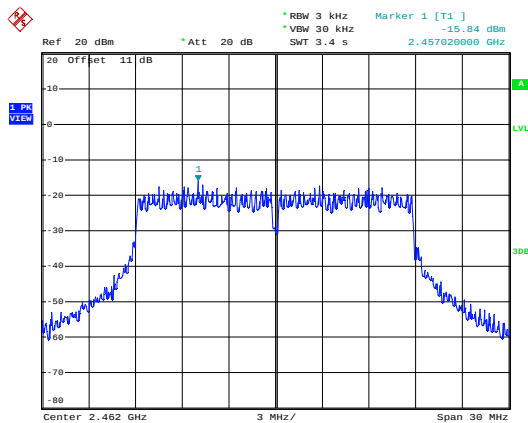
CH06



CH06



CH11



CH09

