



FCC TEST REPORT

According to

FCC Rules and Regulations Part 15 Subpart C

Applicant	: Billion Electric Co., Ltd.
Address	: Floor 8, No. 192, Sec. 2, Chung Hsin Road, Hsin-tien Dist., New Taipei City 231, Taiwan, R.O.C.
Equipment	: ZigBee Wireless-N Broadband Router
Model No.	: Billion SG6200NXL-Std
Series No.	: Billion SG6200NXL-SDK, Billion SG6200NX-SDK BEC SG6200NXL-SDK, BEC SG6200NX-SDK Billion SG6200NX-Std, BEC SG6200NXL-Std BEC SG6200NX-Std, Rosonix RSG-2000
FCC ID	: QI3BIL-SG6200NXL
Trade Name	: BILLION, BEC

- 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.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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CERTIFICATE OF COMPLIANCE

According to

FCC Rules and Regulations Part 15 Subpart C

Applicant	: Billion Electric Co., Ltd.
Address	: Floor 8, No. 192, Sec. 2, Chung Hsin Road, Hsin-tien Dist., New Taipei City 231, Taiwan, R.O.C.
Equipment	: ZigBee Wireless-N Broadband Router
Model No.	: Billion SG6200NXL-Std
Series No.	: Billion SG6200NXL-SDK, Billion SG6200NX-SDK BEC SG6200NXL-SDK, BEC SG6200NX-SDK Billion SG6200NX-Std, BEC SG6200NXL-Std BEC SG6200NX-Std, Rosonix RSG-2000
FCC ID	: QI3BIL-SG6200NXL

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2010)**.

The test was carried out on Oct. 12, 2011 at **Cerpass Technology Corp.**

Signature

Clark Lin
EMC/RF B.U. Deputy Manager



1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209 15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(d)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(e)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Physical Interface

- USB: 2 x USB 2.0 ports
- WLAN: 2T2R antennas
- Ethernet: 3 x 10 / 100Mbps Auto-MDI / MDI-X

RJ-45 Ethernet ports

- WAN: 1 x 10 / 100Mbps Auto-MDI / MDI-X RJ-45

Ethernet port

- Reset button
- WPS/ZigBee push button
- Power jack
- Power switch

Physical Specifications

- Dimensions: 7.28" x 4.86" x 1.38"
(185mm x 123.5mm x 35mm)

Power Requirements

- Input: 12V DC, 1.2A

RF Specifications

- Fully IEEE 802.15.4 / ZigBee PRO compliant
- Operating Band: 2.400 - 2.483 GHz
- 16 channels in the 2.4GHz ISM band
- AES-128 hardware supported encryption

Model name	Billion SG6200NXL-Std Billion SG6200NXL-SDK	Billion SG6200NX-Std Billion SG6200NX-SDK	BEC SG6200NXL-Std BEC SG6200NXL-SDK
Color	White	Gray	White
Housing Pattern	D1	D1	B1-1
VPN		○	

Model name	BEC SG6200NX-Std BEC SG6200NX-SDK	Rosonix RSG-2000
Color	Gray	Black
Housing Pattern	B1-1	NR4
VPN	○	



2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n, HT20

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

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

2.3 Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- The complete test system included remote workstation and EUT. The remote workstation includes Notebook.
- An executive program, "PA Test" under WIN XP was executed to transmit and receive data via wireless.
- The following test mode and test software was performed for conduction and radiation test:

Test mode1:

- 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
- 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz

Because Channel 1(802.11b/g/n HT20) and Channel 3(802.11n HT40) generate the worst case data, evaluate WiFi + Zigbee mode (Radiated Emission only) as Test mode 2, showing as following:

- 802.11b/g/n HT20: CH01: 2412MHz + Zigbee CH01: 2405MHz
- 802.11n HT40: CH03: 2422MHz + Zigbee CH01: 2405MHz

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Remote workstation			
Notebook	ASUS	A8J	Power Cable, Adapter Unshielding 1.8 m

Use Cable:

Cable	Quantity	Description
RJ45	1	Unshielding, 10.0m



2.5 General Information of Test

Test Site :	Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS1-SD):	No. 68-1, Shibachong Si, Shihding Township, Taipei County, Taiwan, R.O.C.
FCC Registration Number :	TW1049, TW1056, TW1061, 390316, 488071, 982971
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number :	T-543 for Telecommunication Test C-3328 for Conducted emission test R-3428 for Radiated emission test G-97 for Radiated emission test above 1GHz
Test Voltage:	AC 120V
Test in Compliance with:	ANSI C63.4-2009 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 24620MHz
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	2.71 dB
Radiated Emission	30 MHz ~ 25GHz	Vertical	4.11 dB
		Horizontal	4.10 dB
6 dB Bandwidth	---	---	7500 Hz
Maximum Peak Output Power	---	---	1.4 dB
100kHz Bandwidth of Frequency Band Edges	---	---	2.2 dB
Power Spectral Density	---	---	2.2 dB



2.7 History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

Attachment No.	Issue Date	Description
TEFI1106205	Oct. 14, 2011	ORIGINAL



3. Antenna Requirements

3.1 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.

3.2 Antenna Construction and Directional Gain

Antenna R:

Antenna type: Dipole Antenna

Antenna Gain: 2.00 dBi

Antenna L:

Antenna type: Dipole Antenna

Antenna Gain: 2.00 dBi



4. Test of Conducted Emission

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. 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

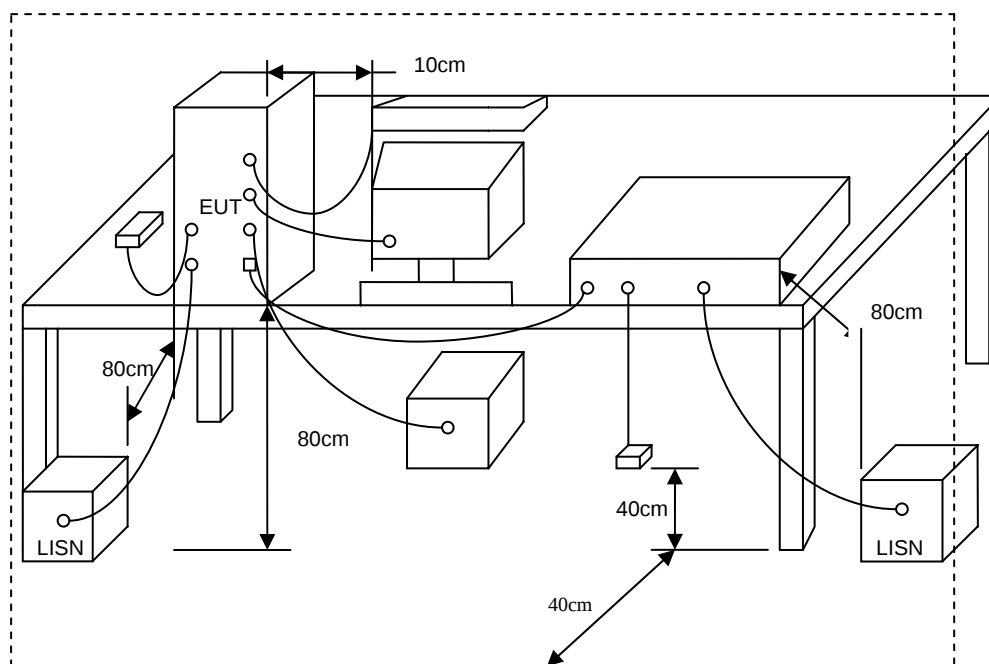
*Decreases with the logarithm of the frequency.

4.2 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.



4.3 Typical Test Setup



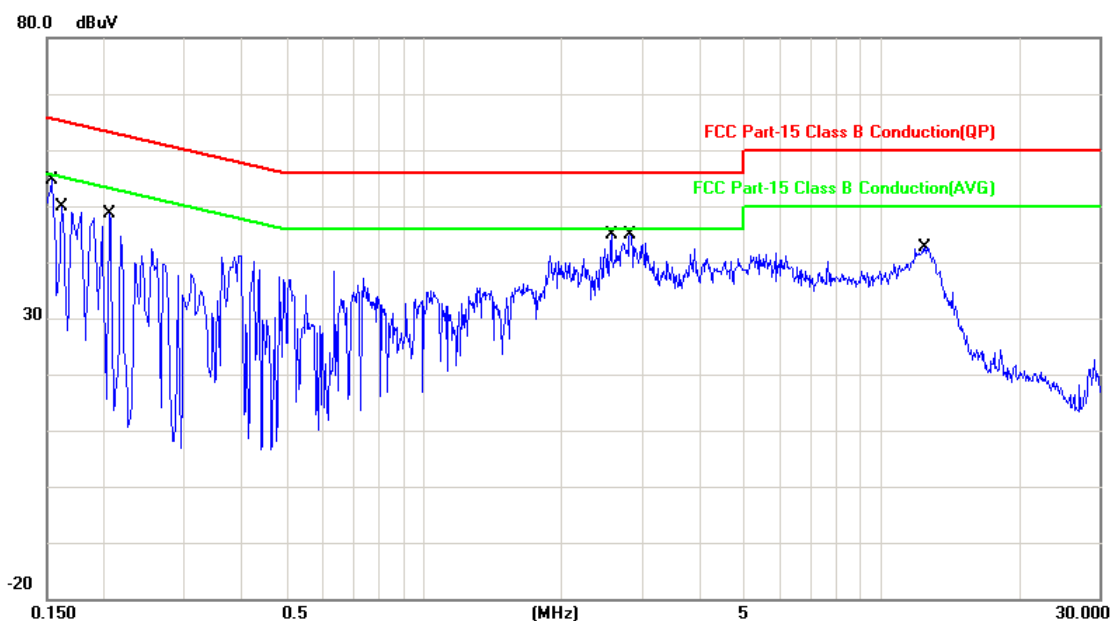
4.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
EMI Receiver	R&S	ESCI	100443	2011/02/08	2012/02/07
LISN	Schwarzbeck	NSLK 8127	8127-516	2011/05/05	2012/05/04
LISN	Schwarzbeck	NSLK 8127	8127-568	2010/09/17	2011/09/16



4.5 Test Result and Data

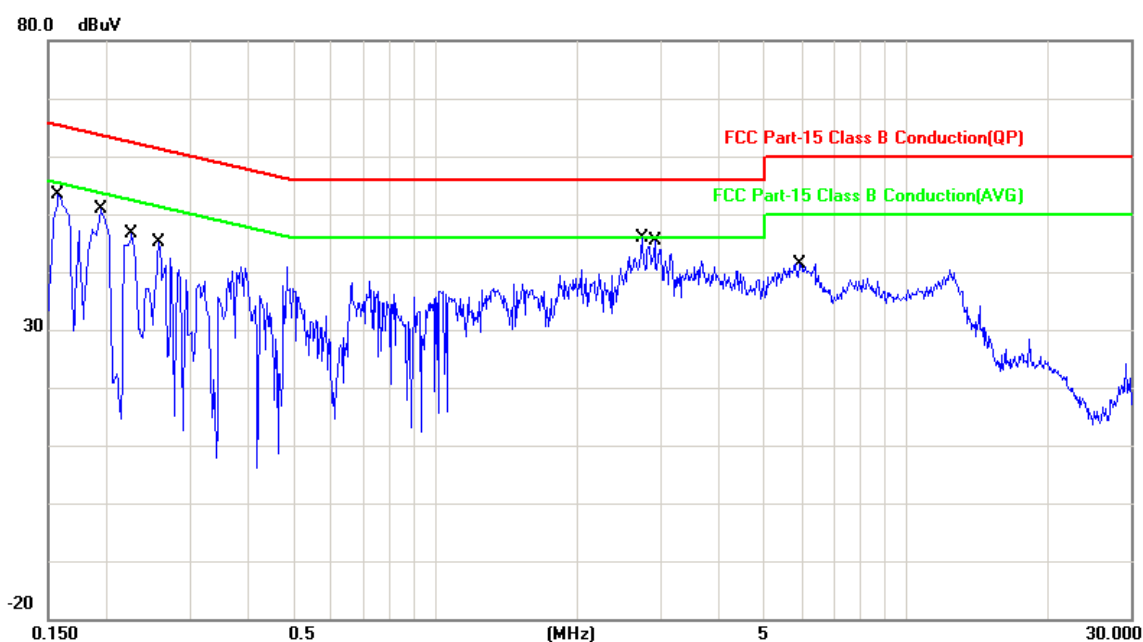
Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11g CH1	Temperature	: 24 °C
Test date	: 2011/08/24	Humidity	: 58 %
Memo			



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	0.12	45.97	46.09	65.78	-19.69	QP	P
2	0.1539	0.12	24.49	24.61	55.78	-31.17	AVG	P
3	0.1620	0.12	44.64	44.76	65.36	-20.60	QP	P
4	0.1620	0.12	21.02	21.14	55.36	-34.22	AVG	P
5	0.2060	0.12	39.56	39.68	63.36	-23.68	QP	P
6	0.2060	0.12	16.53	16.65	53.36	-36.71	AVG	P
7	2.5740	0.28	36.83	37.11	56.00	-18.89	QP	P
8	2.5740	0.28	29.38	29.66	46.00	-16.34	AVG	P
9	2.8260	0.30	37.43	37.73	56.00	-18.27	QP	P
10	2.8260	0.30	29.14	29.44	46.00	-16.56	AVG	P
11	12.5020	0.68	37.32	38.00	60.00	-22.00	QP	P
12	12.5020	0.68	31.63	32.31	50.00	-17.69	AVG	P



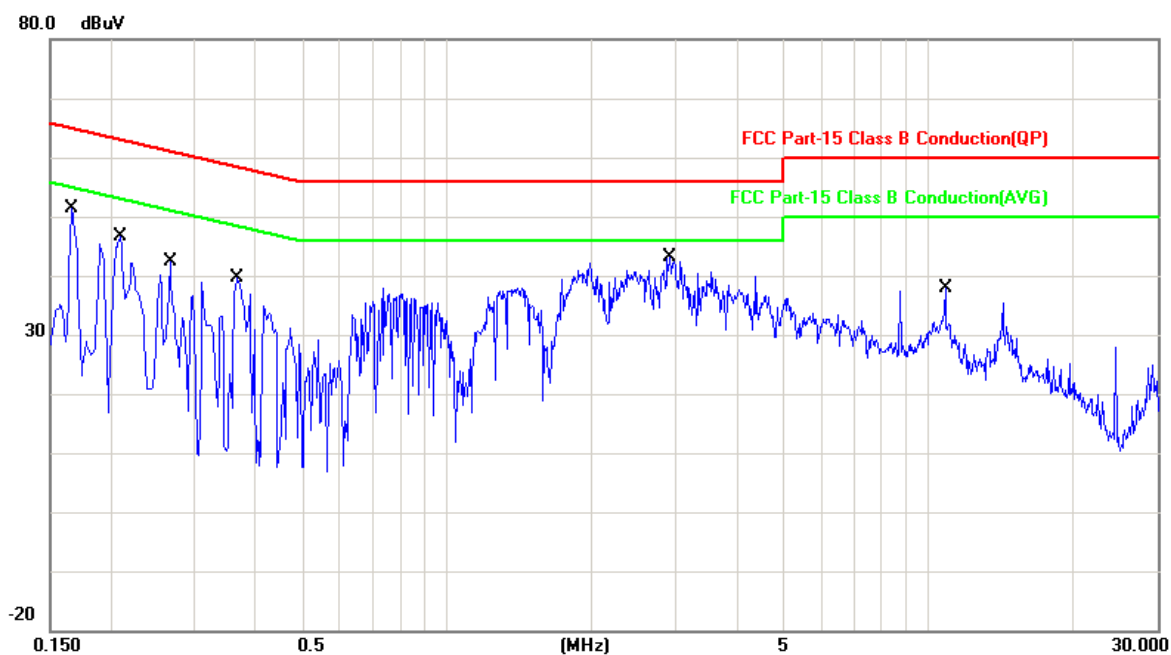
Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11g CH1	Temperature	: 24 °C
Test date	: 2011/08/24	Humidity	: 58 %
Memo			



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	0.10	45.16	45.26	65.56	-20.30	QP	P
2	0.1580	0.10	20.92	21.02	55.56	-34.54	AVG	P
3	0.1940	0.10	46.24	46.34	63.86	-17.52	QP	P
4	0.1940	0.10	29.35	29.45	53.86	-24.41	AVG	P
5	0.2260	0.10	37.47	37.57	62.59	-25.02	QP	P
6	0.2260	0.10	10.91	11.01	52.59	-41.58	AVG	P
7	0.2580	0.10	38.18	38.28	61.49	-23.21	QP	P
8	0.2580	0.10	23.94	24.04	51.49	-27.45	AVG	P
9	2.7500	0.28	38.89	39.17	56.00	-16.83	QP	P
10	2.7500	0.28	29.57	29.85	46.00	-16.15	AVG	P
11	2.9180	0.28	36.89	37.17	56.00	-18.83	QP	P
12	2.9180	0.28	27.13	27.41	46.00	-18.59	AVG	P
13	5.9500	0.39	36.05	36.44	60.00	-23.56	QP	P
14	5.9500	0.39	25.56	25.95	50.00	-24.05	AVG	P



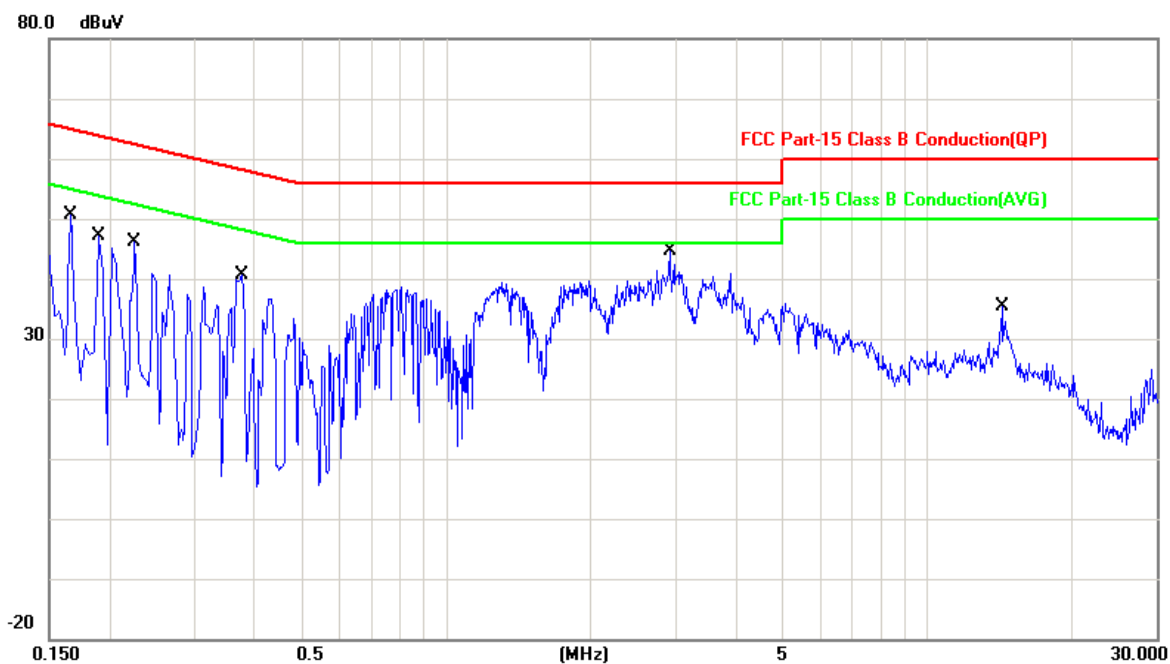
Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11n, HT20 CH1	Temperature	: 24 °C
Test date	: 2011/08/24	Humidity	: 58 %
Memo			



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1660	0.12	46.83	46.95	65.15	-18.20	QP	P
2	0.1660	0.12	30.77	30.89	55.15	-24.26	AVG	P
3	0.2100	0.12	43.41	43.53	63.20	-19.67	QP	P
4	0.2100	0.12	32.69	32.81	53.20	-20.39	AVG	P
5	0.2660	0.12	39.05	39.17	61.24	-22.07	QP	P
6	0.2660	0.12	32.74	32.86	51.24	-18.38	AVG	P
7	0.3660	0.13	39.56	39.69	58.59	-18.90	QP	P
8	0.3660	0.13	31.72	31.85	48.59	-16.74	AVG	P
9	2.9140	0.30	37.68	37.98	56.00	-18.02	QP	P
10	2.9140	0.30	31.04	31.34	46.00	-14.66	AVG	P
11	10.8979	0.62	27.67	28.29	60.00	-31.71	QP	P
12	10.8979	0.62	22.02	22.64	50.00	-27.36	AVG	P



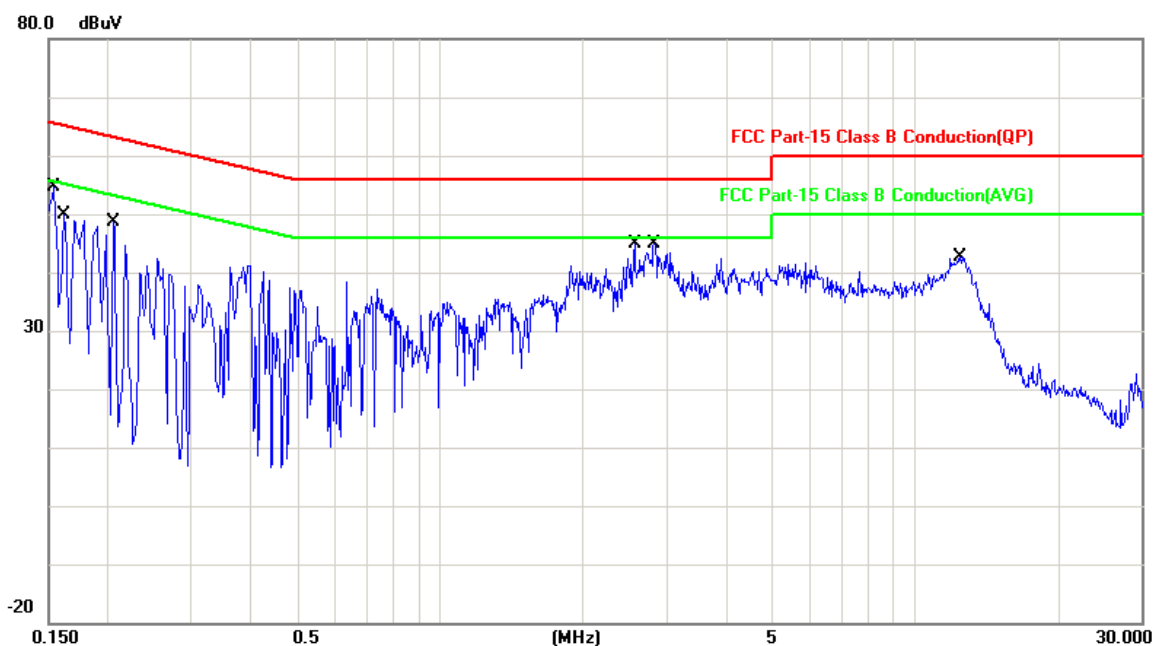
Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11n, HT20 CH1	Temperature	: 24 °C
Test date	: 2011/08/24	Humidity	: 58 %
Memo			



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1660	0.10	46.39	46.49	65.15	-18.66	QP	P
2	0.1660	0.10	29.88	29.98	55.15	-25.17	AVG	P
3	0.1900	0.10	39.04	39.14	64.03	-24.89	QP	P
4	0.1900	0.10	16.31	16.41	54.03	-37.62	AVG	P
5	0.2260	0.10	38.32	38.42	62.59	-24.17	QP	P
6	0.2260	0.10	18.95	19.05	52.59	-33.54	AVG	P
7	0.3780	0.12	39.25	39.37	58.32	-18.95	QP	P
8	0.3780	0.12	31.63	31.75	48.32	-16.57	AVG	P
9	2.9180	0.28	38.52	38.80	56.00	-17.20	QP	P
10	2.9180	0.28	29.79	30.07	46.00	-15.93	AVG	P
11	14.3340	0.61	33.91	34.52	60.00	-25.48	QP	P
12	14.3340	0.61	29.45	30.06	50.00	-19.94	AVG	P



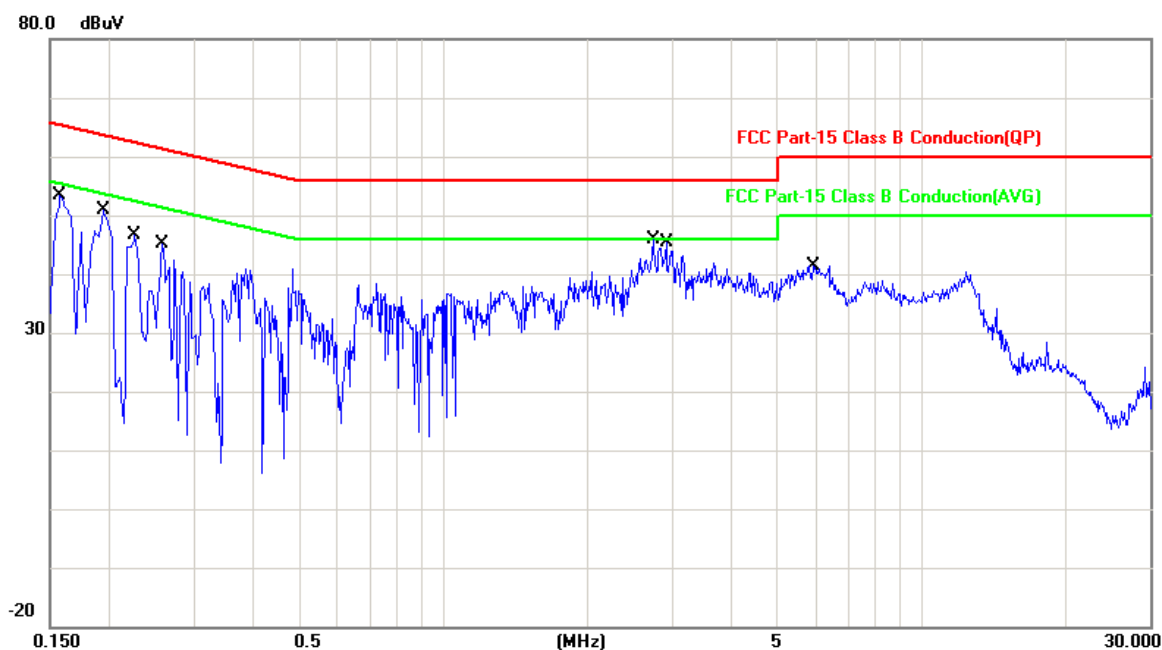
Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11n HT40 CH3	Temperature	: 24 °C
Test date	: 2011/08/24	Humidity	: 58 %
Memo			



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	0.12	45.98	46.10	65.78	-19.68	QP	P
2	0.1539	0.12	24.82	24.94	55.78	-30.84	AVG	P
3	0.1620	0.12	44.71	44.83	65.36	-20.53	QP	P
4	0.1620	0.12	21.50	21.62	55.36	-33.74	AVG	P
5	0.2060	0.12	39.65	39.77	63.36	-23.59	QP	P
6	0.2060	0.12	16.66	16.78	53.36	-36.58	AVG	P
7	2.5740	0.28	36.47	36.75	56.00	-19.25	QP	P
8	2.5740	0.28	29.32	29.60	46.00	-16.40	AVG	P
9	2.8260	0.30	37.47	37.77	56.00	-18.23	QP	P
10	2.8260	0.30	29.16	29.46	46.00	-16.54	AVG	P
11	12.5020	0.68	37.41	38.09	60.00	-21.91	QP	P
12	12.5020	0.68	31.33	32.01	50.00	-17.99	AVG	P



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11n HT40 CH3	Temperature	: 24 °C
Test date	: 2011/08/24	Humidity	: 58 %
Memo			



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	0.10	45.64	45.74	65.56	-19.82	QP	P
2	0.1580	0.10	20.76	20.86	55.56	-34.70	AVG	P
3	0.1940	0.10	46.55	46.65	63.86	-17.21	QP	P
4	0.1940	0.10	29.63	29.73	53.86	-24.13	AVG	P
5	0.2260	0.10	37.89	37.99	62.59	-24.60	QP	P
6	0.2260	0.10	10.62	10.72	52.59	-41.87	AVG	P
7	0.2580	0.10	38.15	38.25	61.49	-23.24	QP	P
8	0.2580	0.10	23.78	23.88	51.49	-27.61	AVG	P
9	2.7500	0.28	38.65	38.93	56.00	-17.07	QP	P
10	2.7500	0.28	29.37	29.65	46.00	-16.35	AVG	P
11	2.9180	0.28	36.65	36.93	56.00	-19.07	QP	P
12	2.9180	0.28	27.36	27.64	46.00	-18.36	AVG	P
13	5.9500	0.39	36.46	36.85	60.00	-23.15	QP	P
14	5.9500	0.39	25.79	26.18	50.00	-23.82	AVG	P

Test engineer: Ben

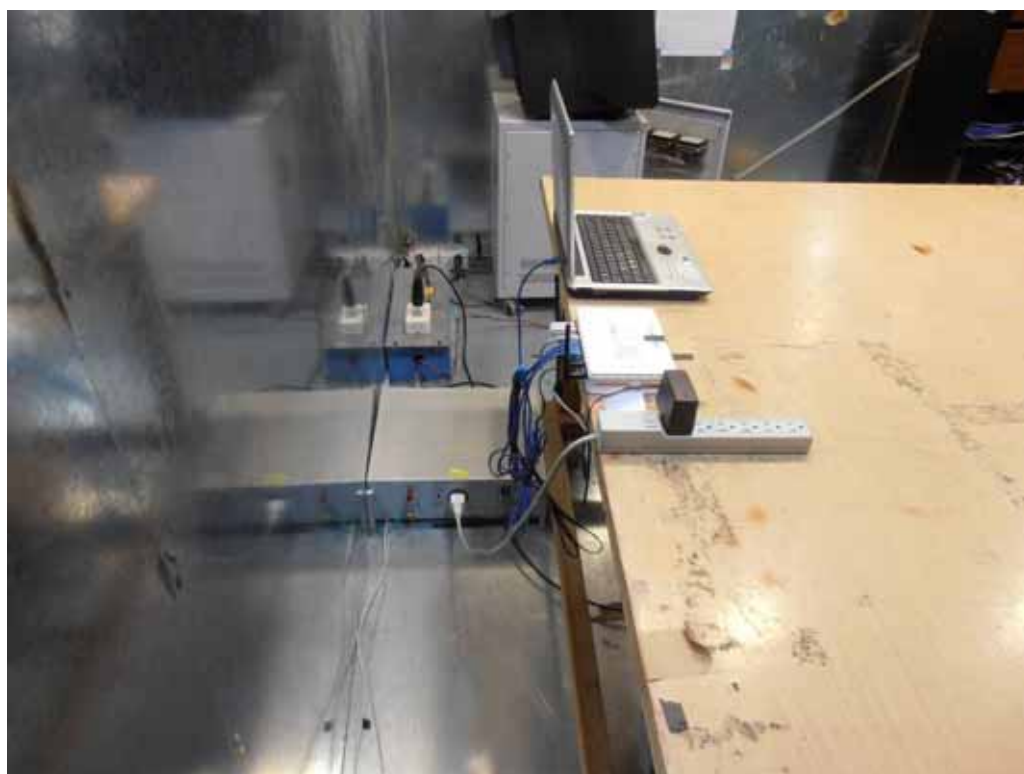


4.6 Test Photographs

Front View



Rear View





5. Test of Radiated Emission

5.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2009. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated ($\mu V / M$)	Radiated (dB $\mu V / M$)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

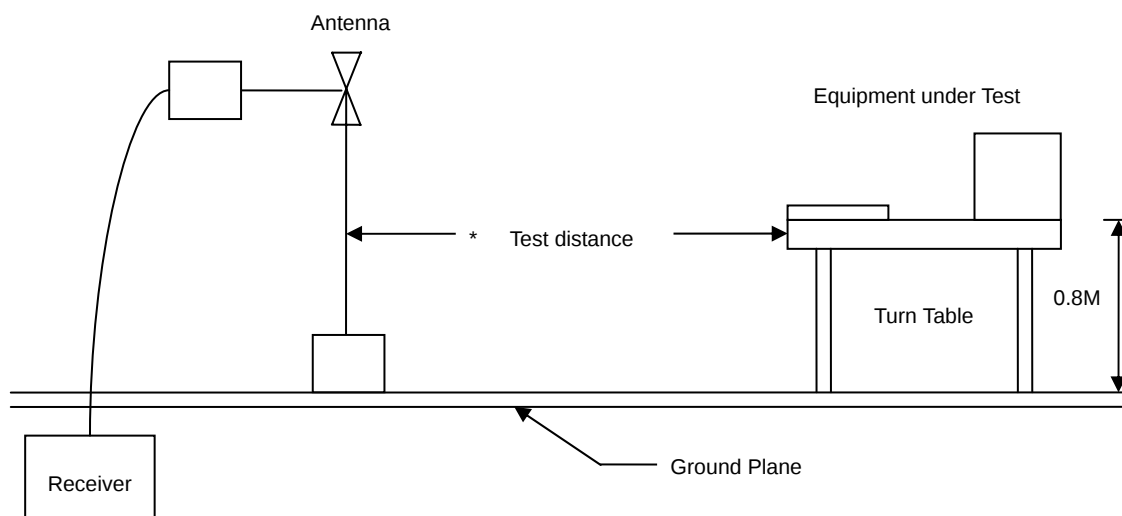
Frequency (MHz)	Distance Meters	Radiated (dB $\mu V / M$)
30-230	10	30
230-1000	10	37

5.2 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.



5.3 Typical Test Setup



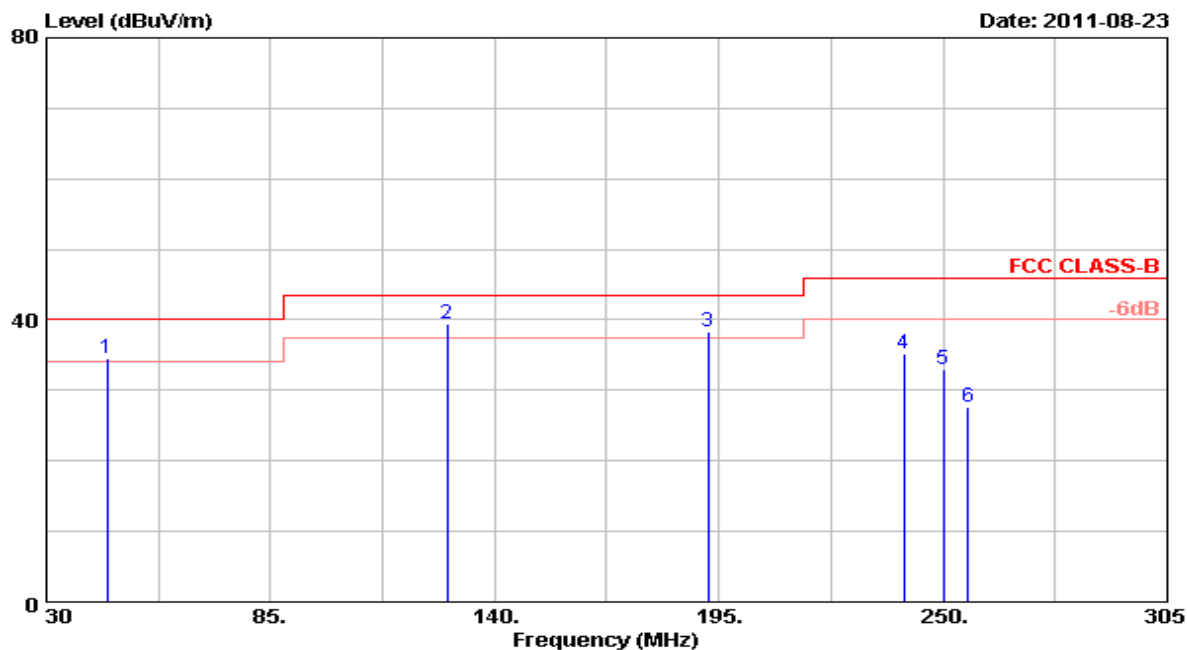
5.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Amplifier	Agilent	8447D	2944A10531	2011/01/21	2012/01/20
Bilog Antenna	Schaffner	CBL6112D	22242	2011/02/09	2012/02/08
EMI Receiver	R&S	ESCI	101200	2011/07/26	2012/07/25
SPECTRUM ANALYZER	R&S	FSP40	100219	2010/11/05	2011/11/04
HORN ANTENNA	EMCO	3115	31589	2011/05/02	2012/05/01
Preamplifier	Agilent	8449B	3008A01954	2011/03/02	2012/03/01



5.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



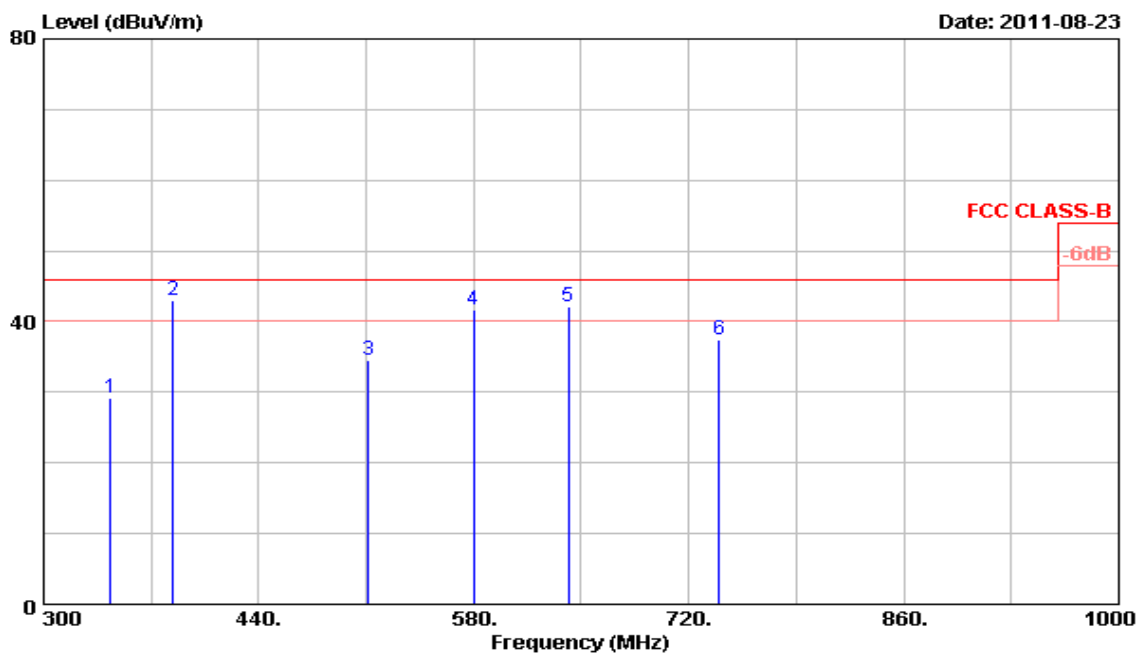
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.85	30.81	3.66	34.47	40.00	-5.53	QP	100	0
2	128.45	36.26	3.20	39.46	43.50	-4.04	QP	100	0
3	192.25	37.93	0.41	38.34	43.50	-5.16	QP	100	0
4	240.38	40.46	-5.17	35.29	46.00	-10.71	Peak	100	0
5	250.00	38.63	-5.74	32.89	46.00	-13.11	Peak	100	0
6	256.05	32.17	-4.58	27.59	46.00	-18.41	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



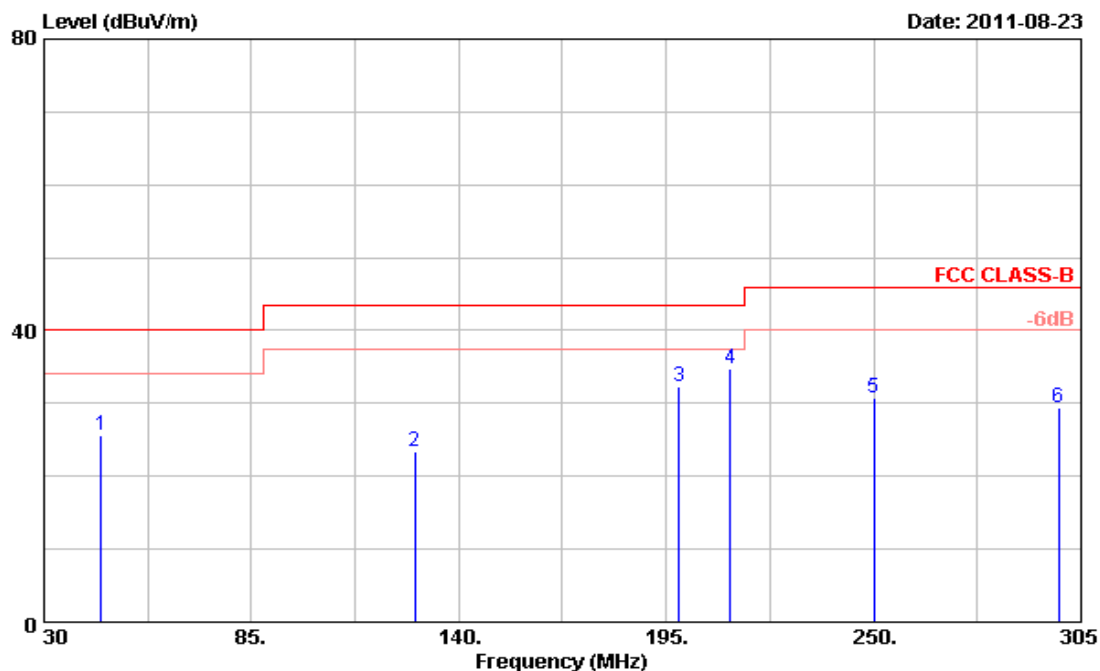
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	343.40	32.92	-3.82	29.10	46.00	-16.90	Peak	100	360
2	384.00	44.81	-1.88	42.93	46.00	-3.07	QP	100	360
3	511.40	33.63	0.90	34.53	46.00	-11.47	Peak	100	360
4	580.00	32.68	8.89	41.57	46.00	-4.43	QP	100	360
5	641.60	38.49	3.73	42.22	46.00	-3.78	QP	100	360
6	739.60	26.97	10.48	37.45	46.00	-8.55	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



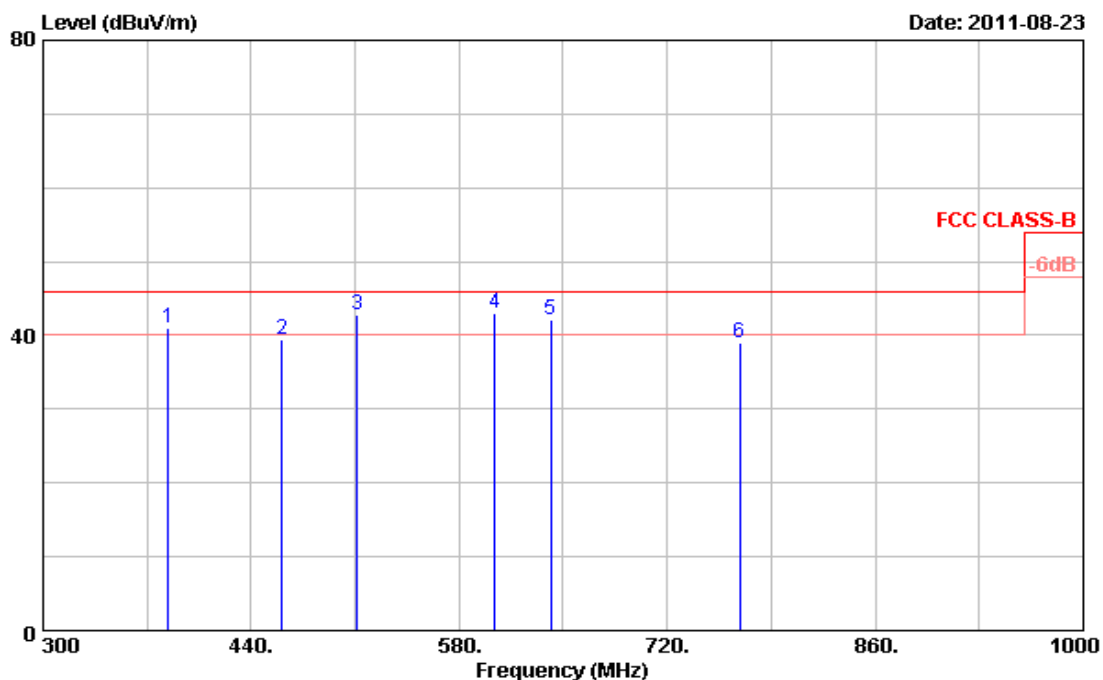
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	45.13	30.40	-4.85	25.55	40.00	-14.45	Peak	100	0
2	128.45	32.23	-8.89	23.34	43.50	-20.16	Peak	100	0
3	198.30	43.56	-11.32	32.24	43.50	-11.26	Peak	100	0
4	212.05	45.06	-10.39	34.67	43.50	-8.83	Peak	100	0
5	250.00	36.04	-5.38	30.66	46.00	-15.34	Peak	100	0
6	298.95	35.31	-5.95	29.36	46.00	-16.64	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



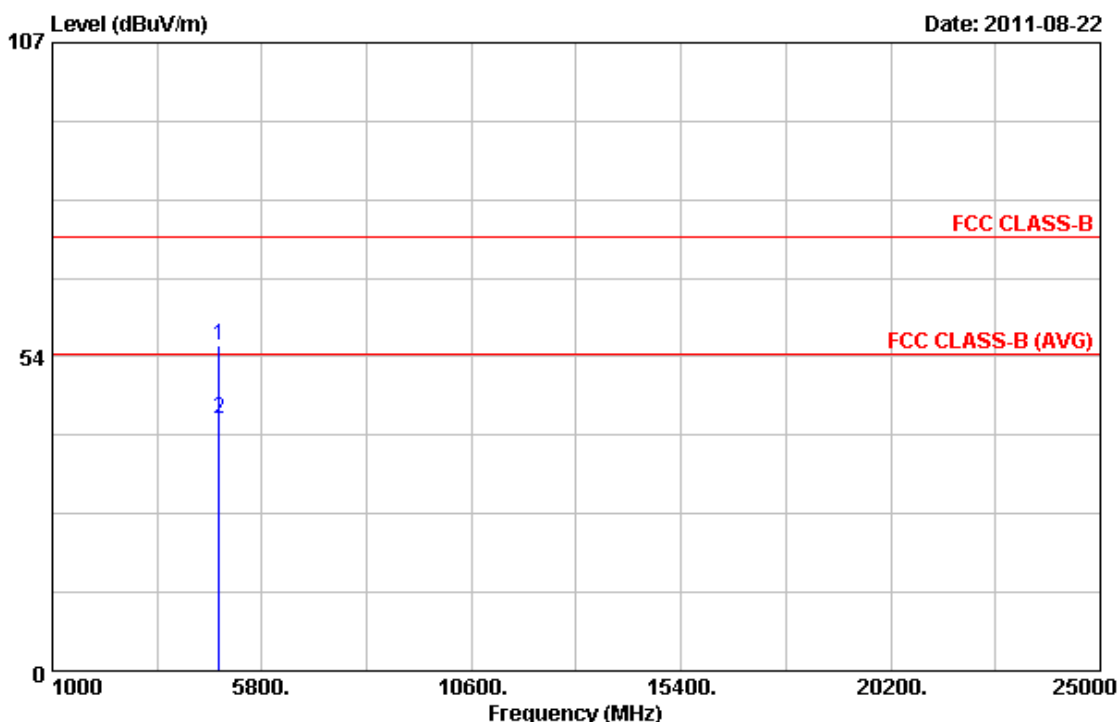
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	384.00	48.18	-7.26	40.92	46.00	-5.08	QP	100	360
2	461.00	38.84	0.62	39.46	46.00	-6.54	Peak	100	360
3	511.40	39.59	3.21	42.80	46.00	-3.20	QP	100	360
4	603.80	35.80	7.20	43.00	46.00	-3.00	QP	100	360
5	641.60	37.15	4.94	42.09	46.00	-3.91	QP	100	360
6	769.00	30.62	8.36	38.98	46.00	-7.02	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11b	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 11 Mbps



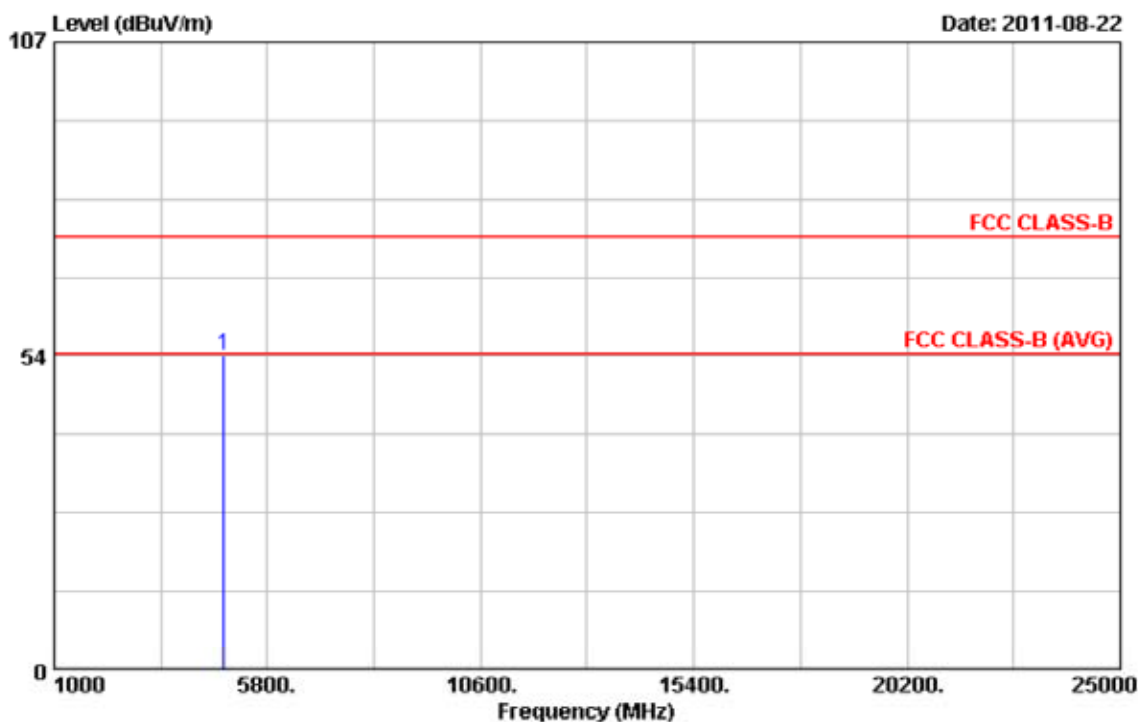
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.75	46.91	8.60	55.51	74.00	-18.49	Peak	100	54
2	4825.75	34.28	8.62	42.90	54.00	-11.10	Average	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11b	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 11 Mbps



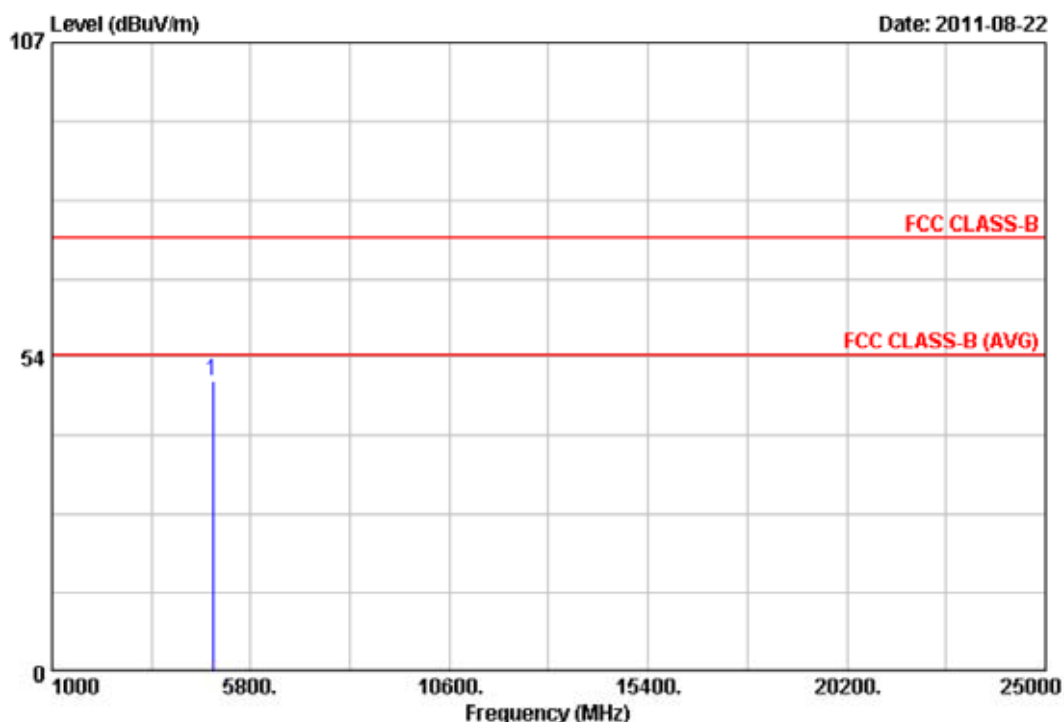
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4821.63	44.94	8.60	53.54	74.00	-20.46	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 6	Humidity	: 65 %
Modulation Type	: 802.11b	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 11 Mbps



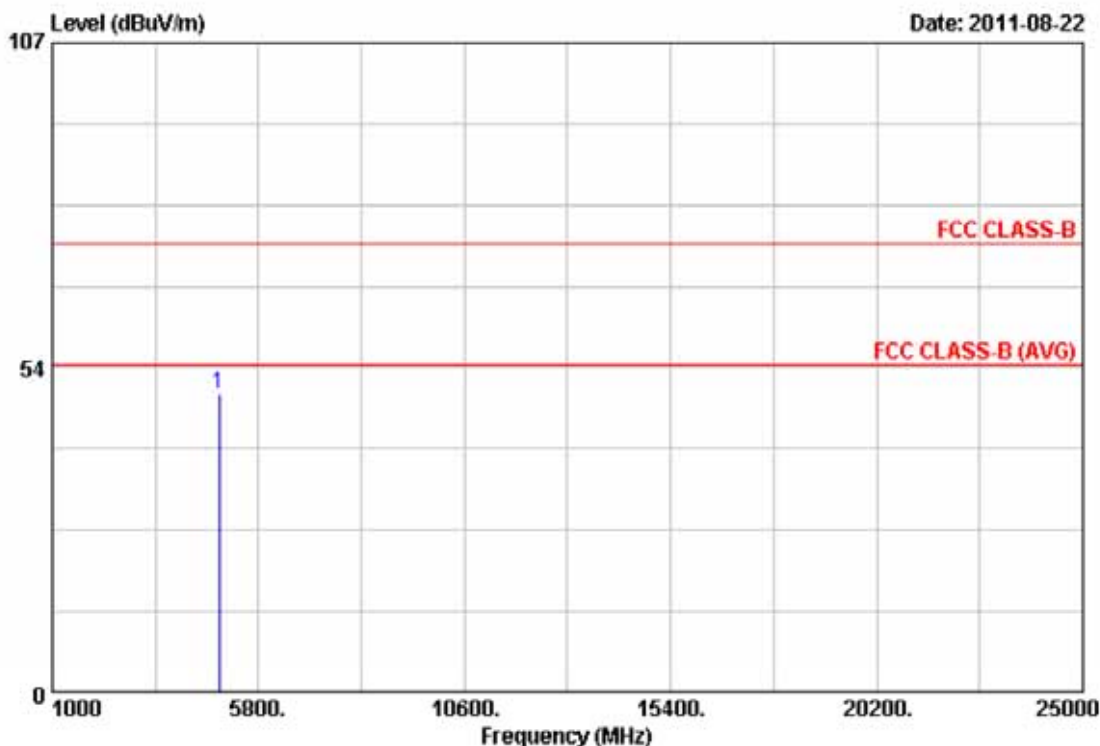
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	40.79	8.80	49.59	74.00	-24.41	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 6	Humidity	: 65 %
Modulation Type	: 802.11b	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 11 Mbps



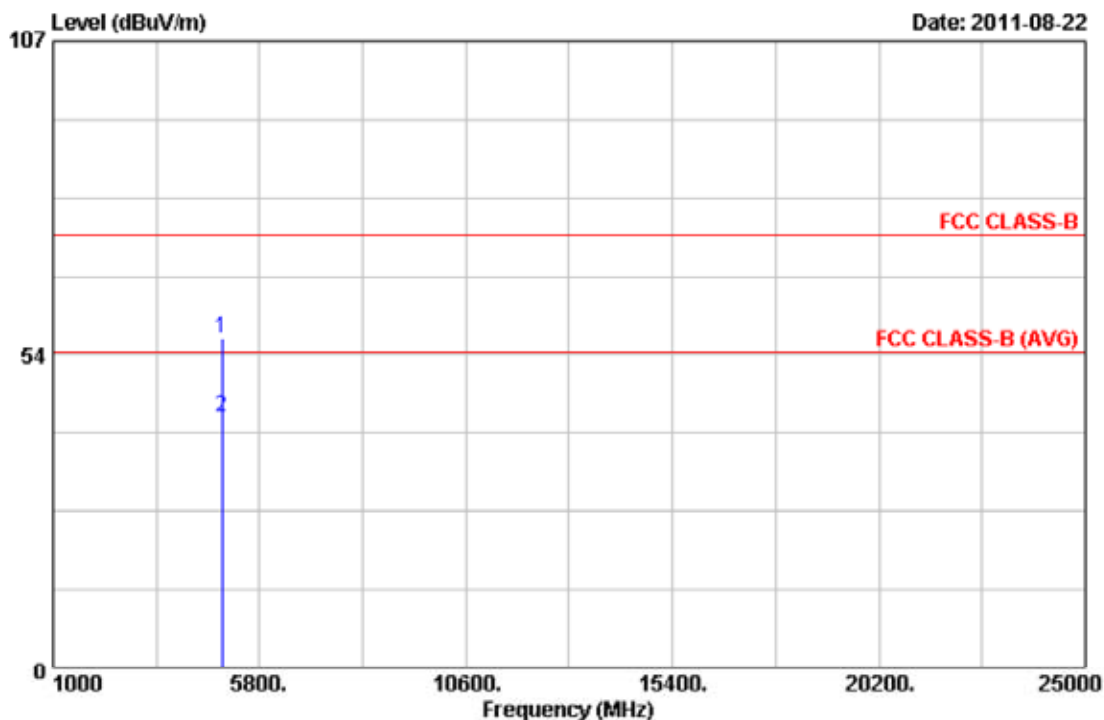
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	40.52	8.80	49.32	74.00	-24.68	Peak	100	118

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 11	Humidity	: 65 %
Modulation Type	: 802.11b	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 11 Mbps



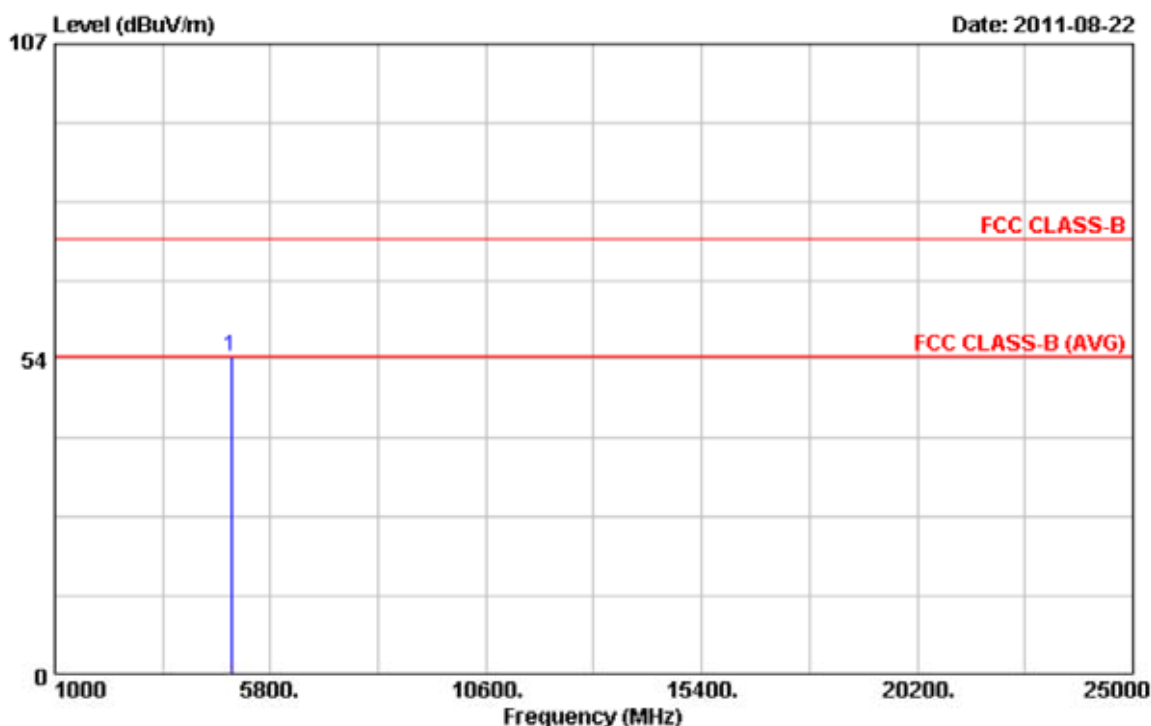
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.88	47.40	8.99	56.39	74.00	-17.61	Peak	100	214
2	4925.63	33.76	9.02	42.78	54.00	-11.22	Average	100	180

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 11	Humidity	: 65 %
Modulation Type	: 802.11b	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 11 Mbps



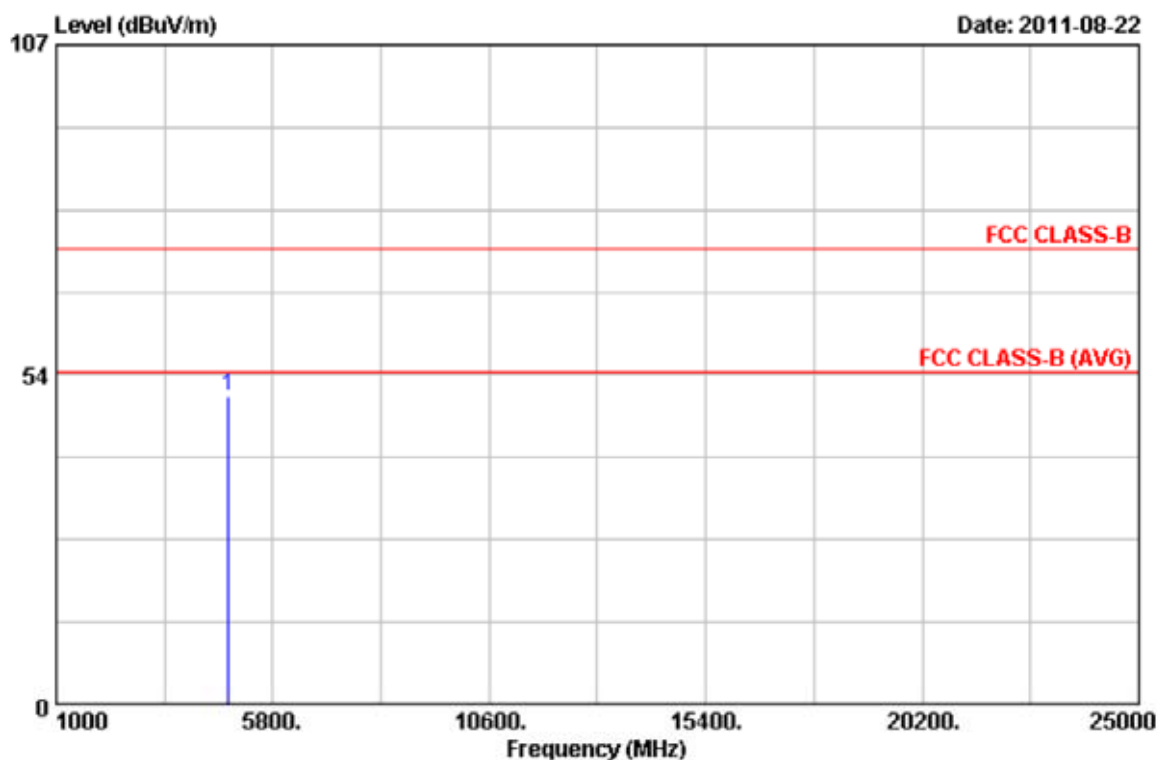
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.88	44.83	8.99	53.82	74.00	-20.18	Peak	100	330

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



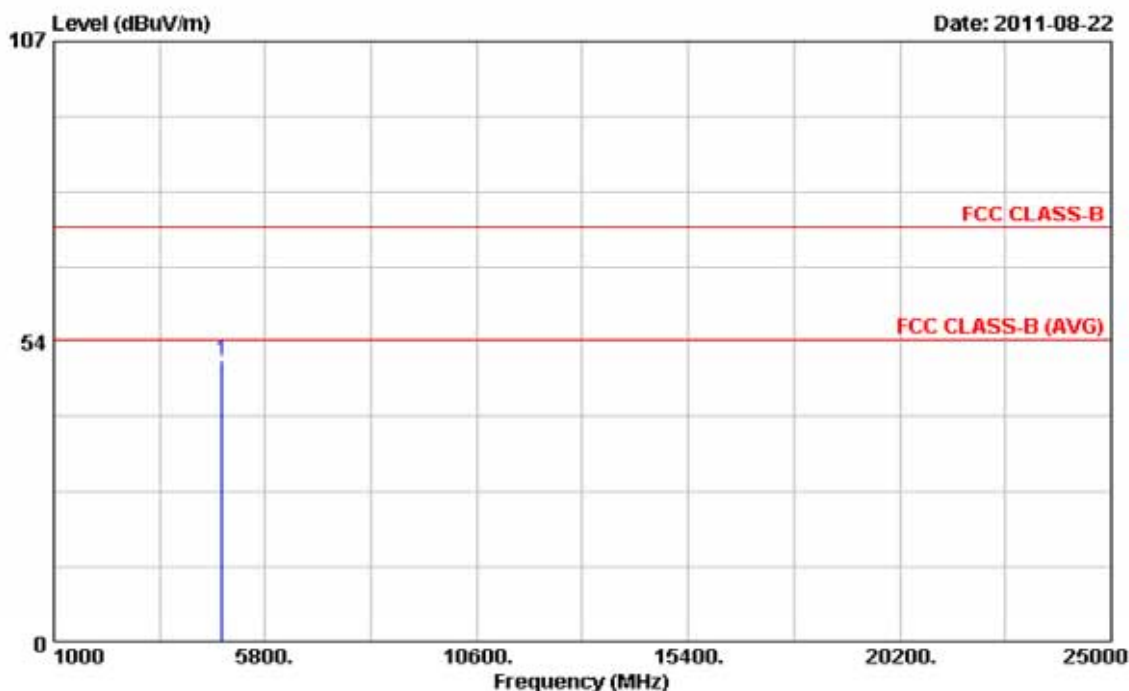
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	41.56	8.60	50.16	74.00	-23.84	Peak	102	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



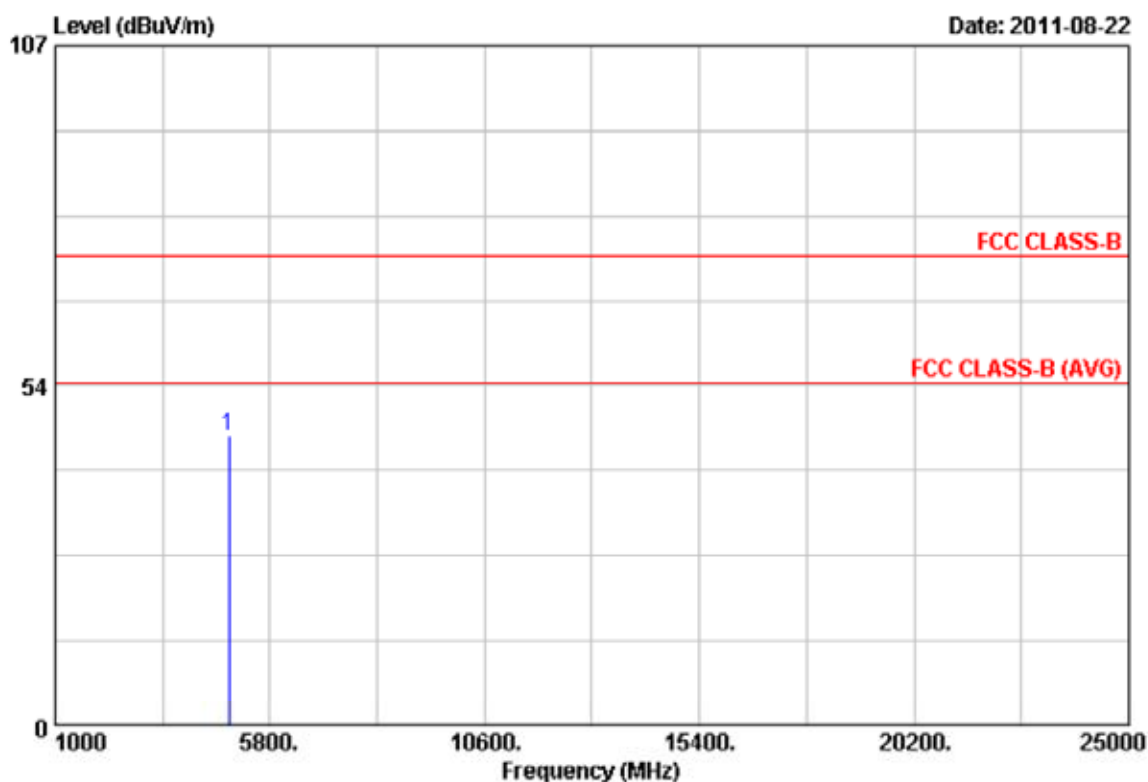
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	41.41	8.60	50.01	74.00	-23.99	Peak	102	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 6	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



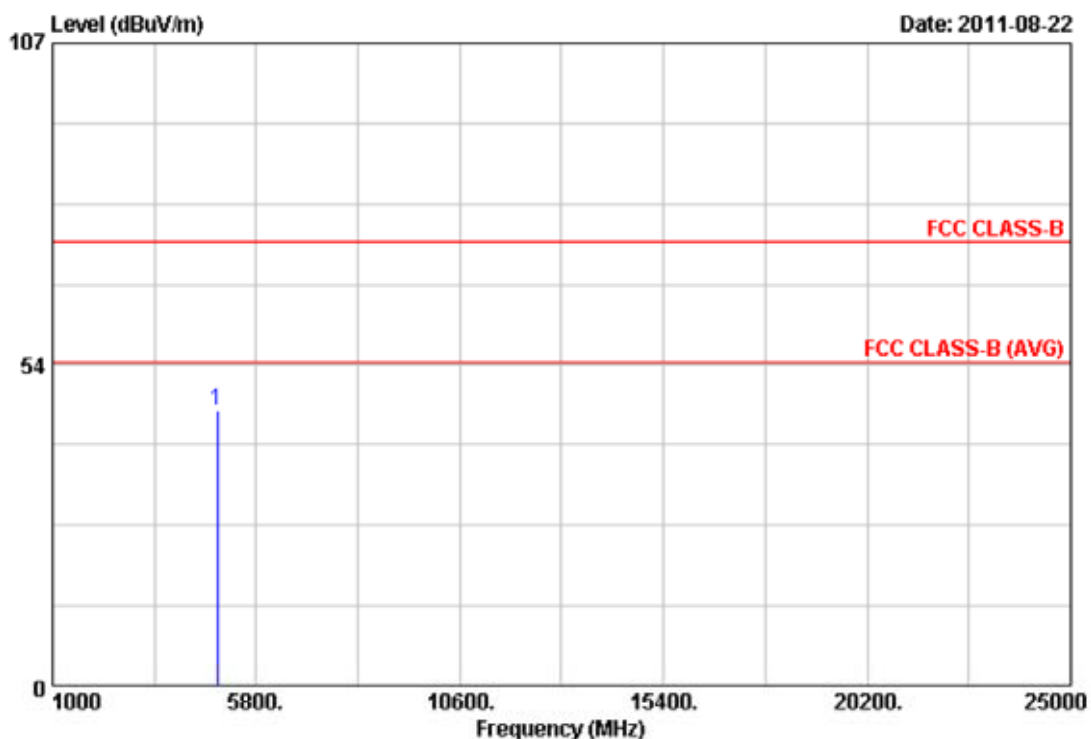
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	36.89	8.80	45.69	74.00	-28.31	Peak	102	261

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 6	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



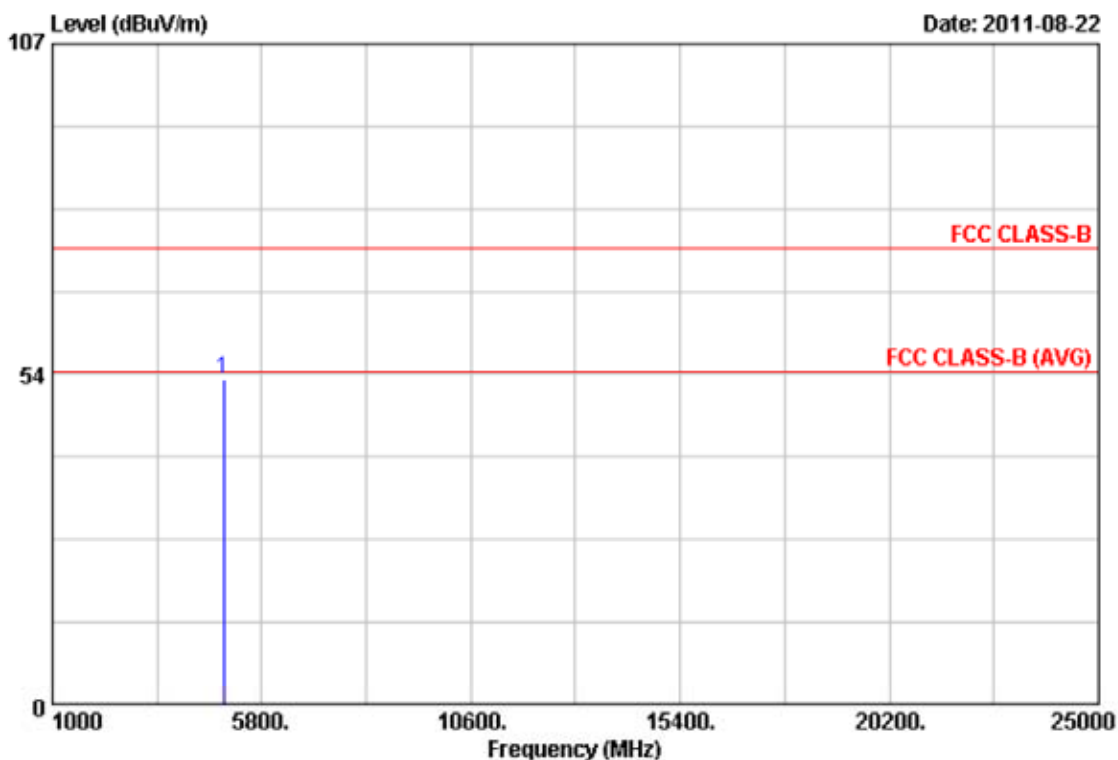
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	37.12	8.80	45.92	74.00	-28.08	Peak	102	210

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 11	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



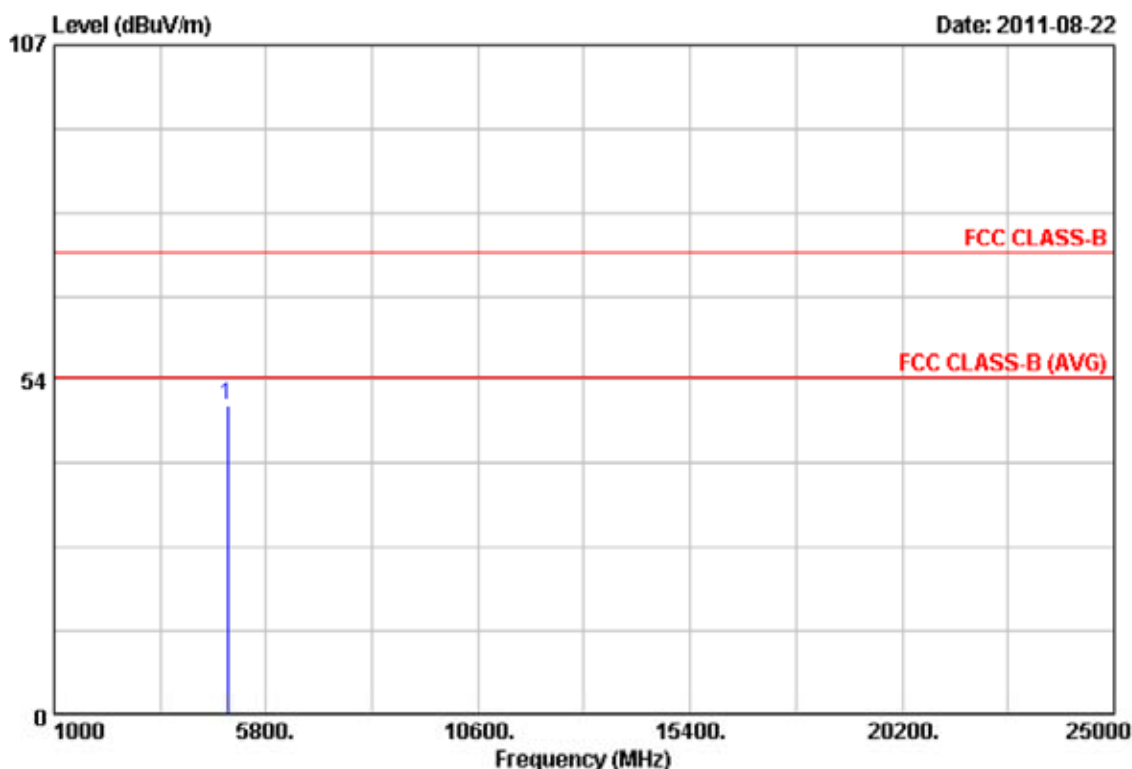
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	43.74	8.99	52.73	74.00	-21.27	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 11	Humidity	: 65 %
Modulation Type	: 802.11g	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



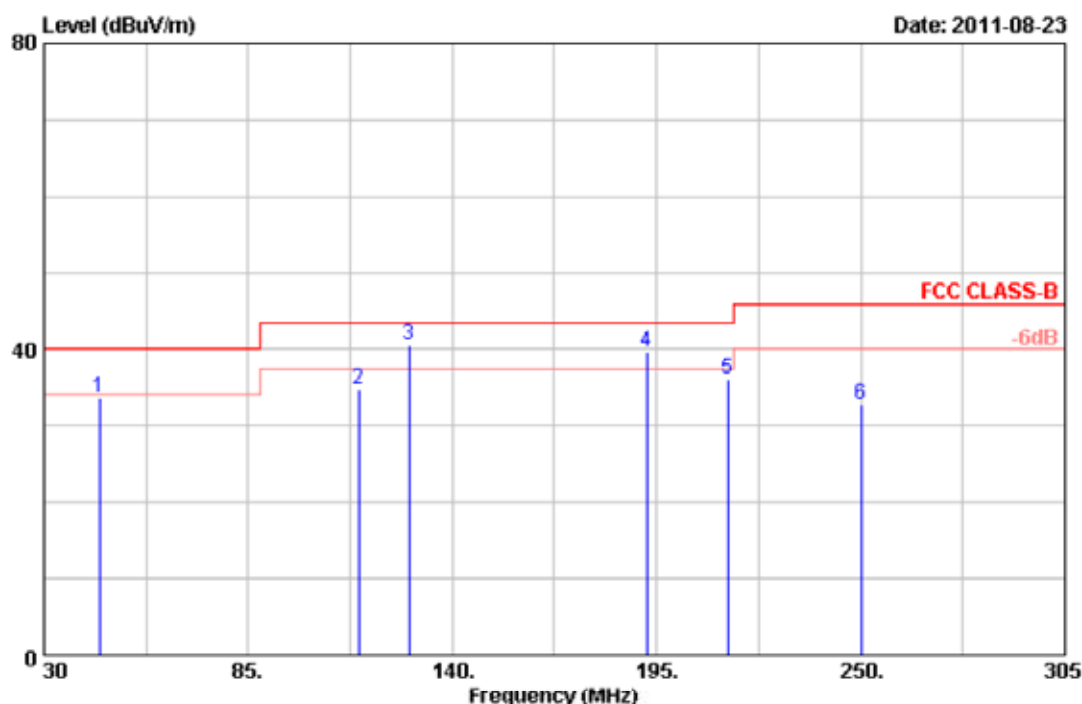
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	40.54	8.99	49.53	74.00	-24.47	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



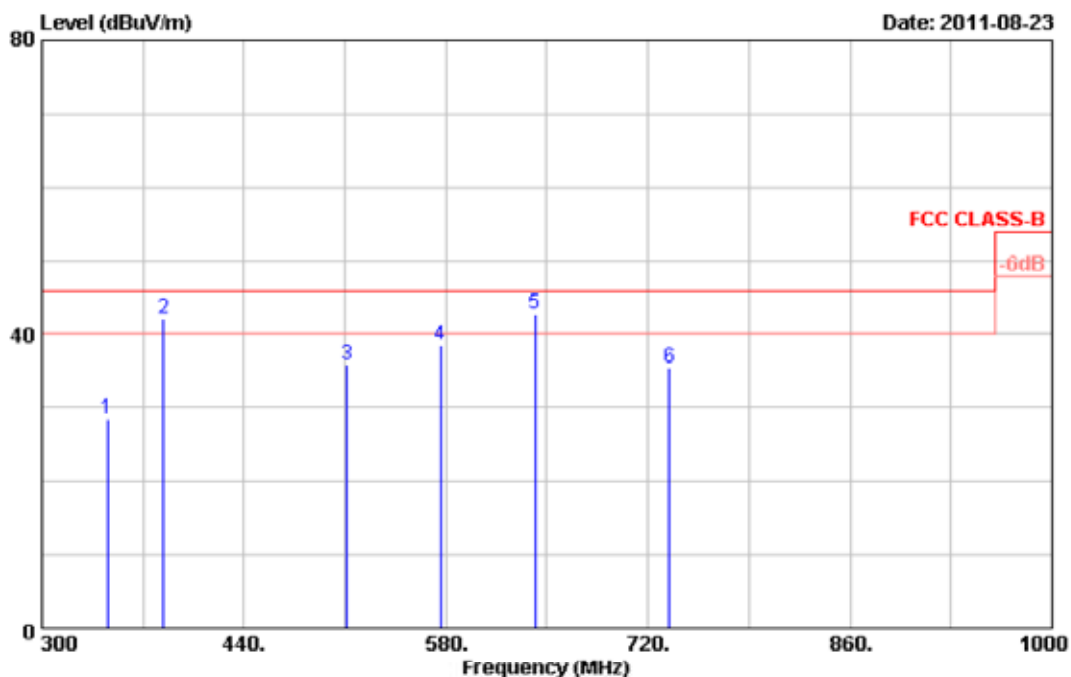
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.85	30.01	3.66	33.67	40.00	-6.33	Peak	100	0
2	114.70	32.55	2.31	34.86	43.50	-8.64	Peak	100	0
3	128.45	37.26	3.20	40.46	43.50	-3.04	QP	100	0
4	192.25	39.26	0.41	39.67	43.50	-3.83	QP	100	0
5	214.25	38.43	-2.37	36.06	43.50	-7.44	Peak	100	0
6	250.00	38.43	-5.74	32.69	46.00	-13.31	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



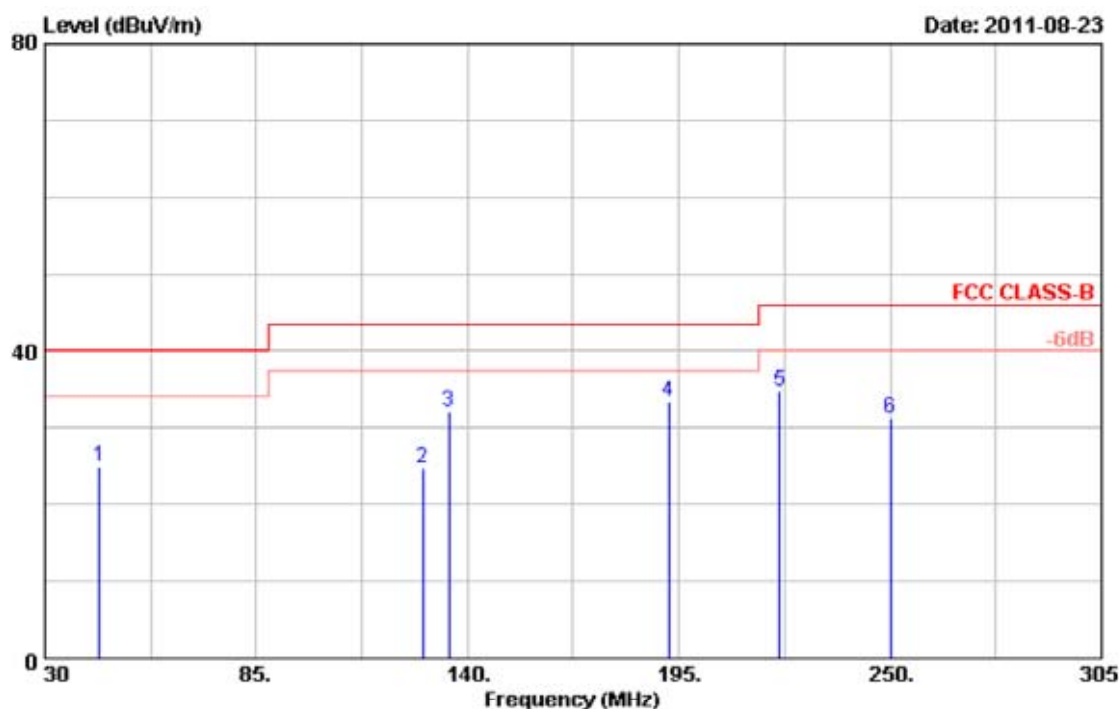
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	345.50	32.36	-3.83	28.53	46.00	-17.47	Peak	100	360
2	384.00	44.08	-1.88	42.20	46.00	-3.80	QP	100	360
3	511.40	35.04	0.90	35.94	46.00	-10.06	Peak	100	360
4	576.50	30.68	7.81	38.49	46.00	-7.51	Peak	100	360
5	641.60	39.00	3.73	42.73	46.00	-3.27	QP	100	360
6	734.70	24.16	11.36	35.52	46.00	-10.48	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



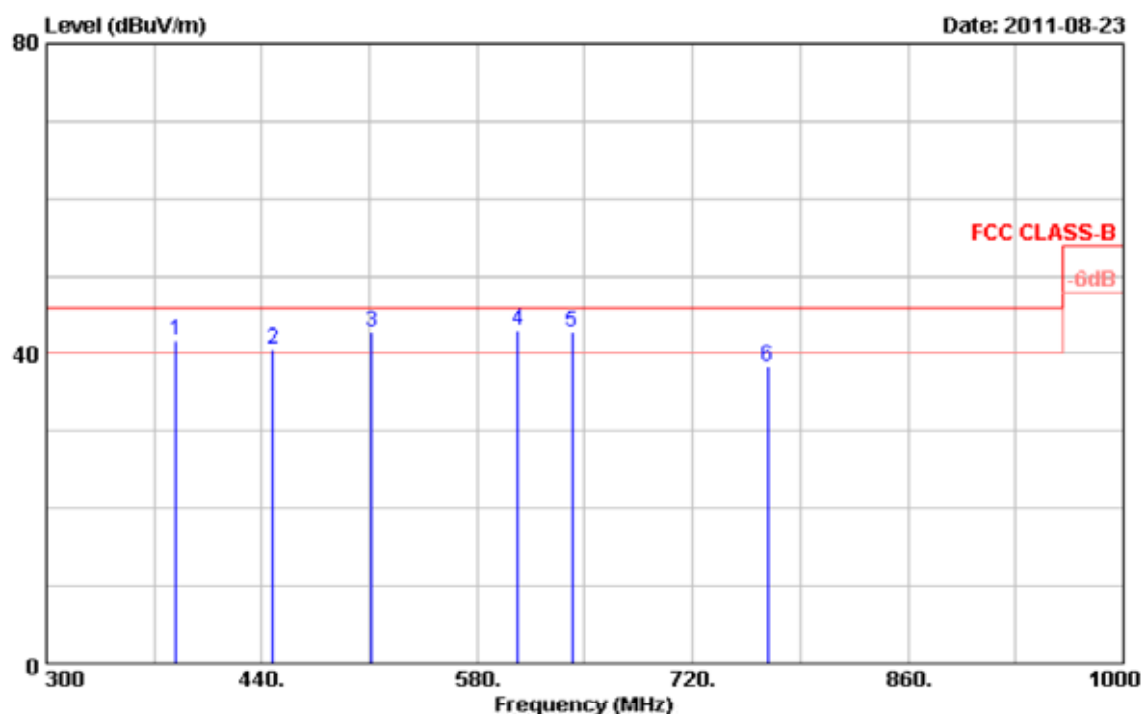
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.30	30.33	-5.29	25.04	40.00	-14.96	Peak	100	0
2	128.45	33.63	-8.89	24.74	43.50	-18.76	Peak	100	0
3	135.05	41.97	-9.91	32.06	43.50	-11.44	Peak	100	0
4	192.25	45.21	-11.74	33.47	43.50	-10.03	Peak	100	0
5	221.13	42.31	-7.54	34.77	46.00	-11.23	Peak	100	0
6	250.00	36.51	-5.38	31.13	46.00	-14.87	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



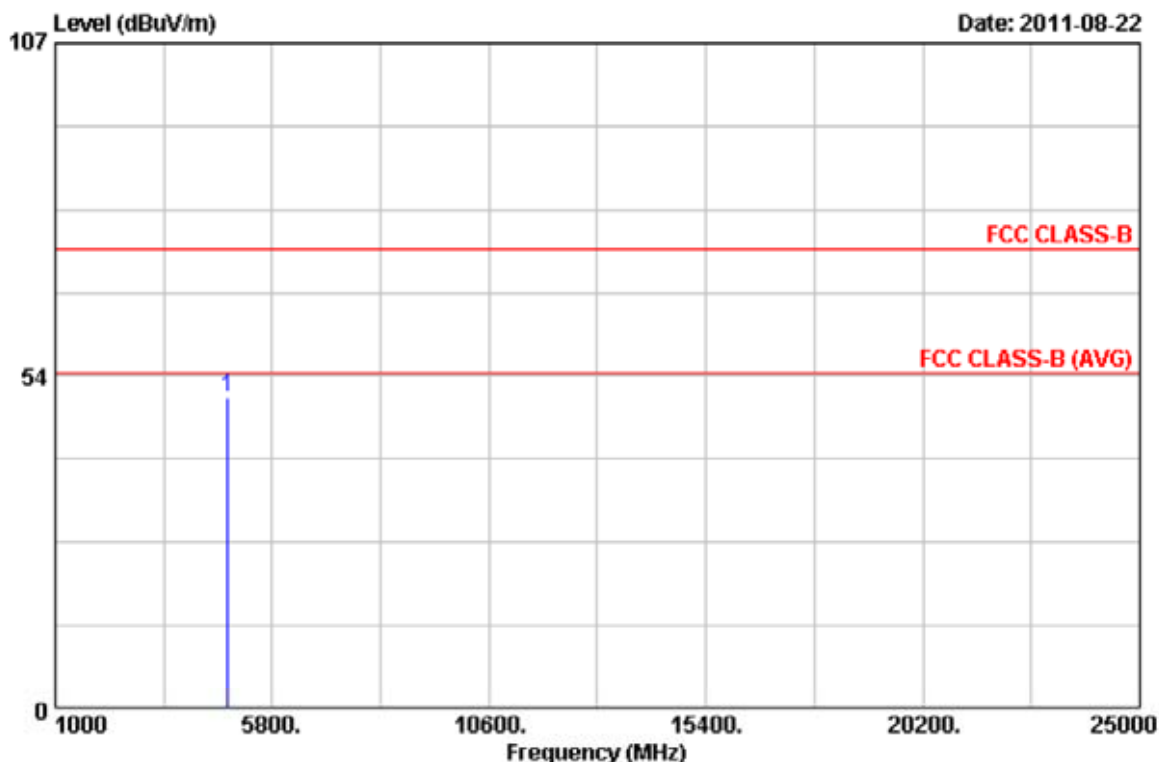
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	384.00	48.84	-7.26	41.58	46.00	-4.42	QP	100	360
2	447.00	39.88	0.61	40.49	46.00	-5.51	QP	100	360
3	511.40	39.61	3.21	42.82	46.00	-3.18	QP	100	360
4	606.60	35.76	7.15	42.91	46.00	-3.09	Peak	100	360
5	641.60	37.94	4.94	42.88	46.00	-3.12	Peak	100	360
6	769.00	29.97	8.36	38.33	46.00	-7.67	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	23 °C
Operation Channel	:	1	Humidity	:	65 %
Modulation Type	:	802.11n HT20	Atmospheric Pressure	:	1020 hPa
Memo	:		Rate	:	130 Mbps



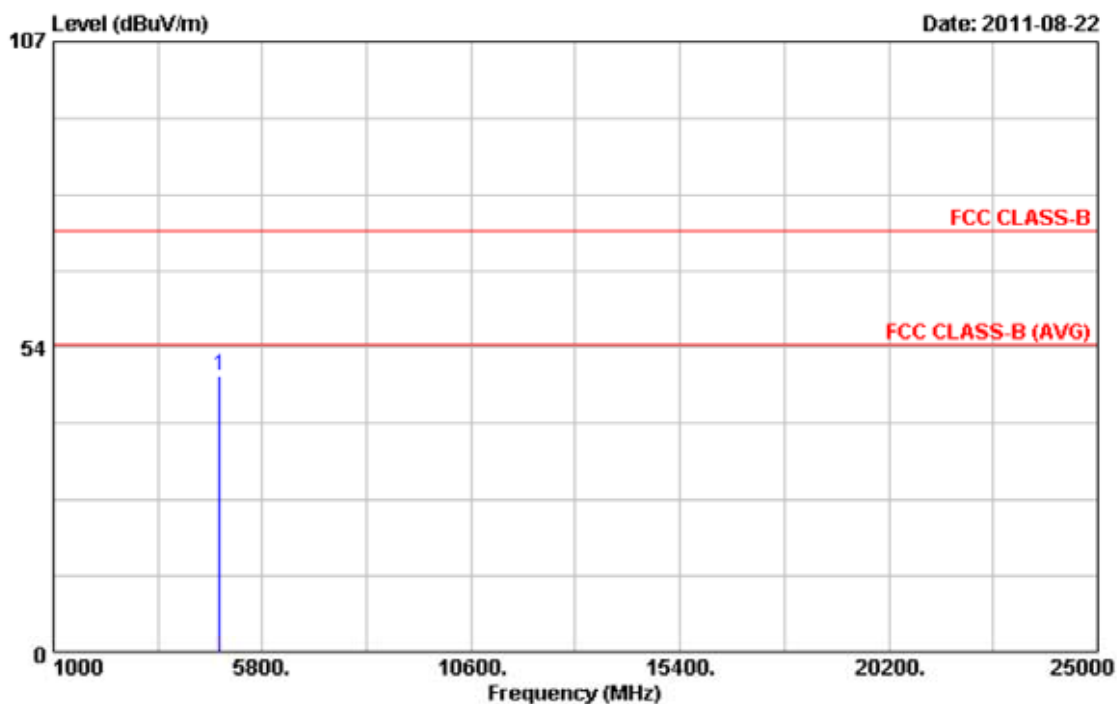
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	41.47	8.60	50.07	74.00	-23.93	Peak	100	317

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo		Rate	: 130 Mbps



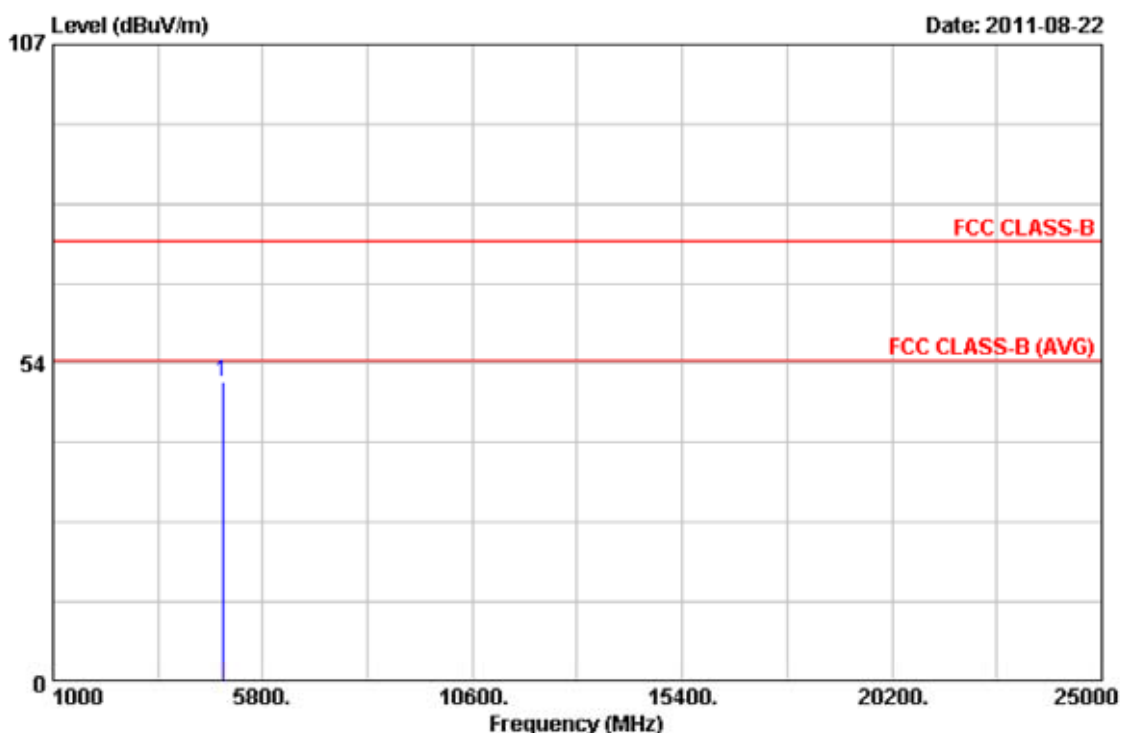
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	40.09	8.60	48.69	74.00	-25.31	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 6	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



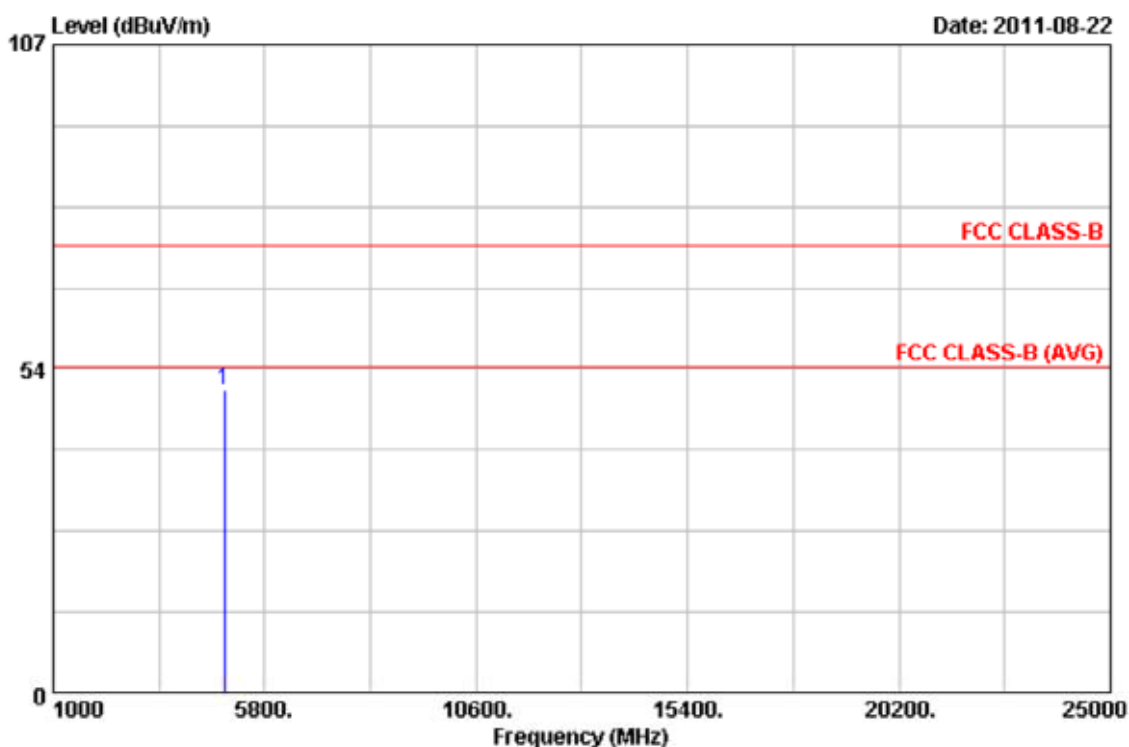
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	41.71	8.80	50.51	74.00	-23.49	Peak	100	50

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 6	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



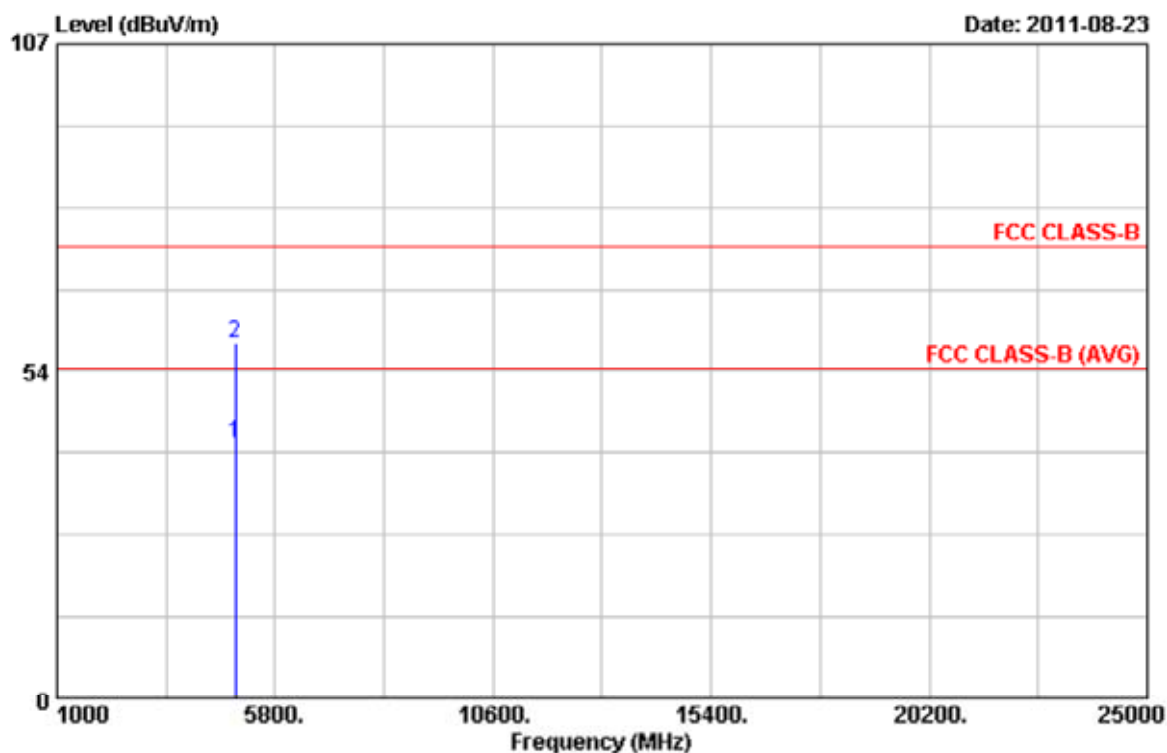
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	41.28	8.80	50.08	74.00	-23.92	Peak	100	343

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 11	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



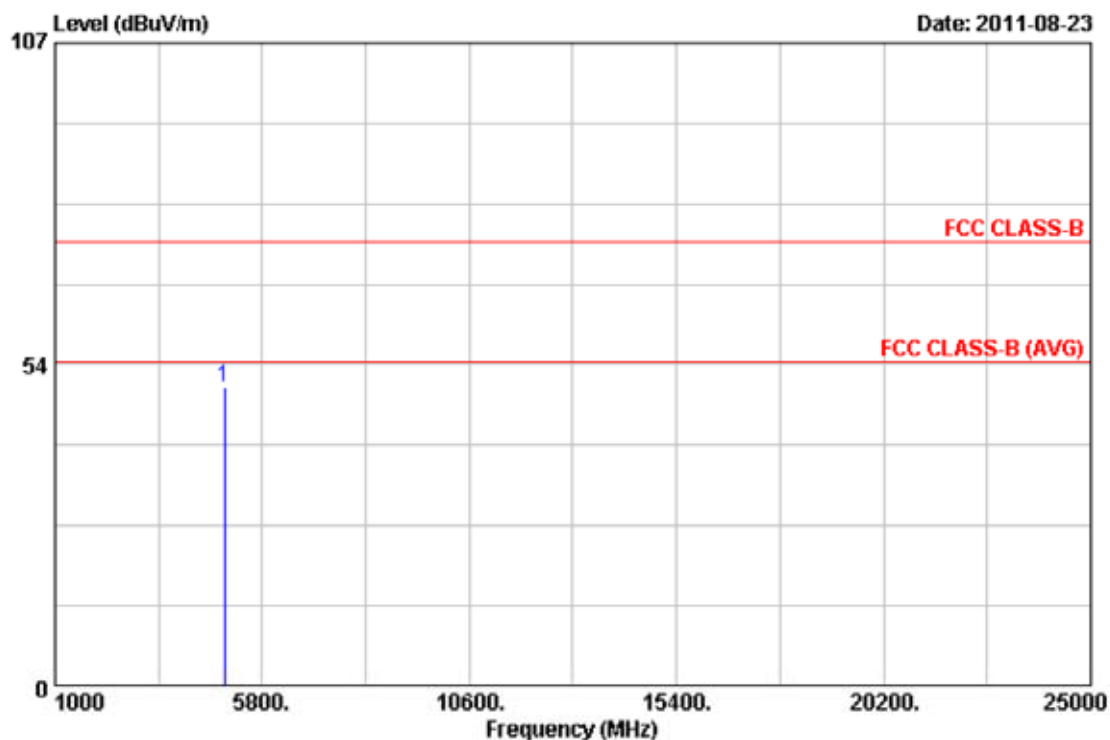
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.40	32.59	8.99	41.58	54.00	-12.42	Average	100	109
2	4924.50	49.14	8.99	58.13	74.00	-15.87	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 11	Humidity	: 65 %
Modulation Type	: 802.11n HT20	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



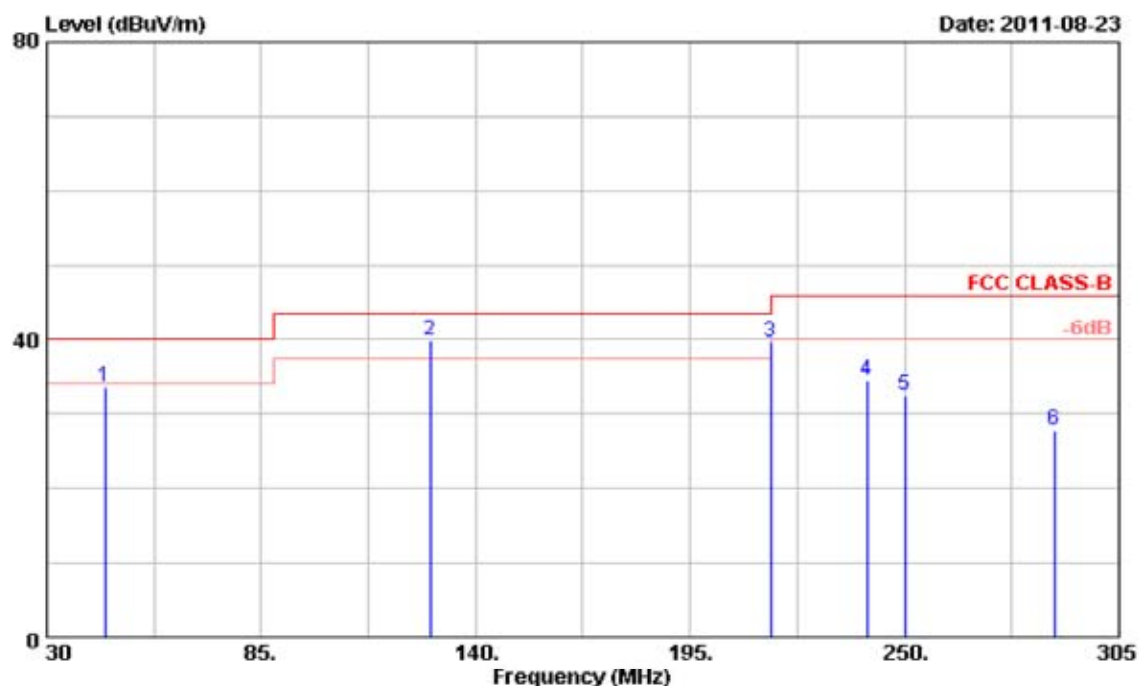
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	40.72	8.99	49.71	74.00	-24.29	Peak	100	291

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	23 °C
Operation Channel	:	3	Humidity	:	65 %
Modulation Type	:	802.11n HT40	Atmospheric Pressure	:	1020 hPa
Memo	:		Rate	:	270 Mbps



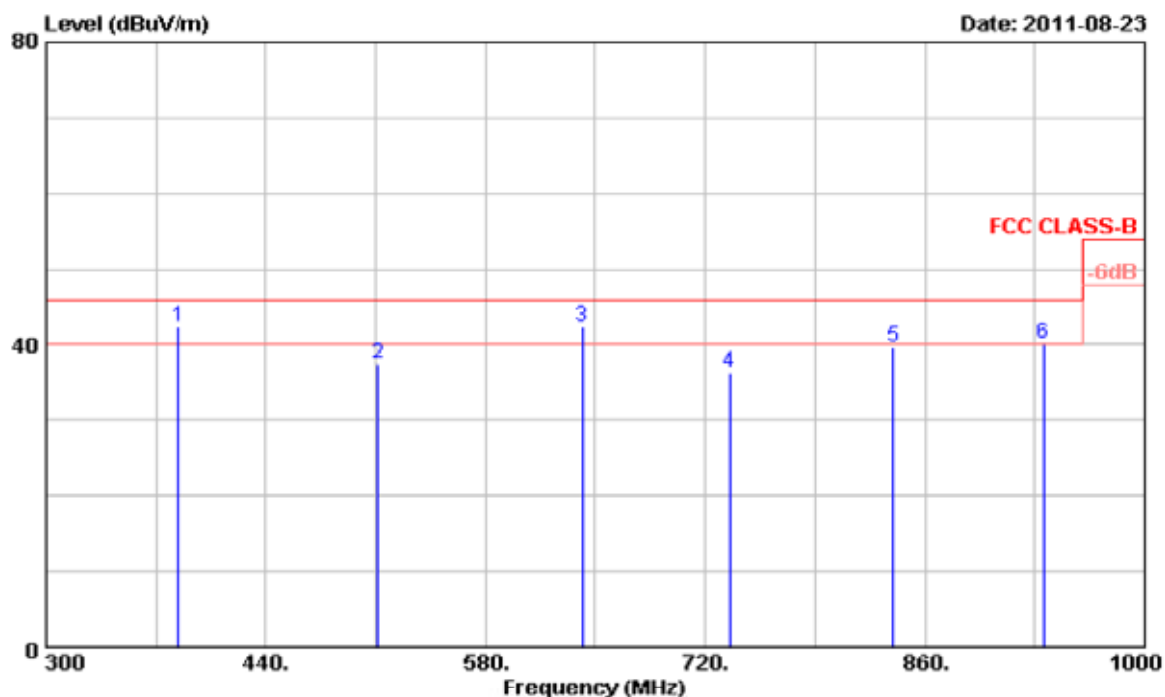
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.85	30.04	3.66	33.70	40.00	-6.30	Peak	100	0
2	128.45	36.60	3.20	39.80	43.50	-3.70	QP	100	0
3	215.63	41.68	-2.01	39.67	43.50	-3.83	QP	100	0
4	240.38	39.73	-5.17	34.56	46.00	-11.44	Peak	100	0
5	250.00	38.22	-5.74	32.48	46.00	-13.52	Peak	100	0
6	288.50	30.83	-3.01	27.82	46.00	-18.18	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



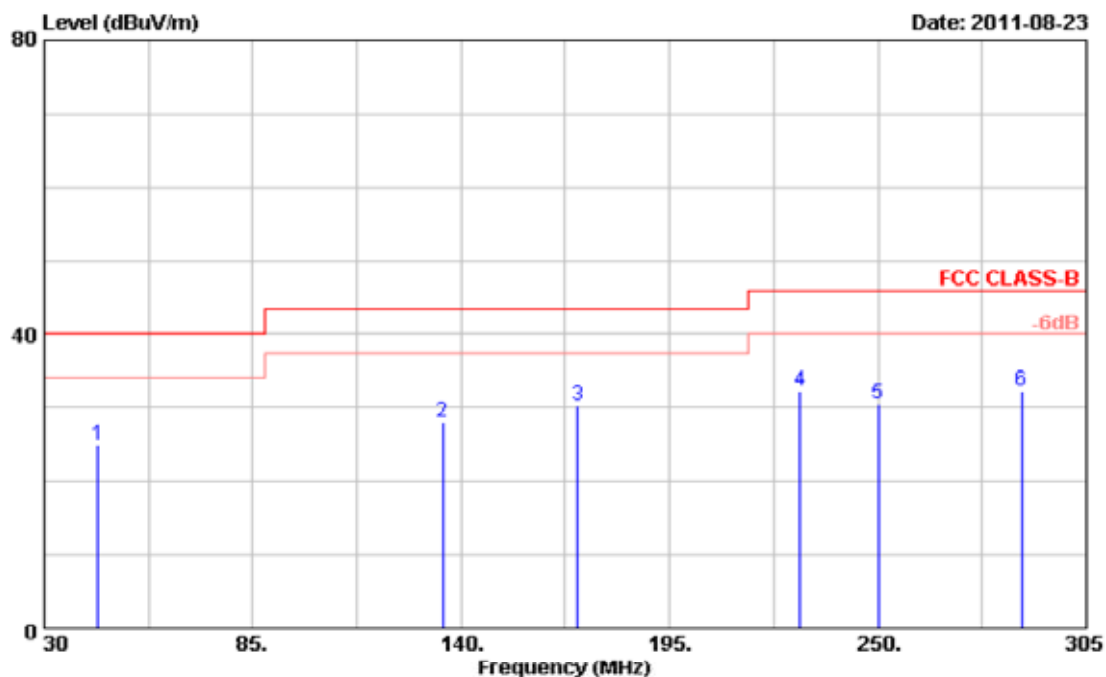
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	384.00	44.19	-1.88	42.31	46.00	-3.69	QP	100	360
2	511.40	36.56	0.90	37.46	46.00	-8.54	Peak	100	360
3	641.60	38.64	3.73	42.37	46.00	-3.63	QP	100	360
4	735.40	25.04	11.32	36.36	46.00	-9.64	Peak	100	360
5	839.70	24.14	15.49	39.63	46.00	-6.37	Peak	100	360
6	935.60	25.24	14.79	40.03	46.00	-5.97	QP	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo		Rate	: 270 Mbps



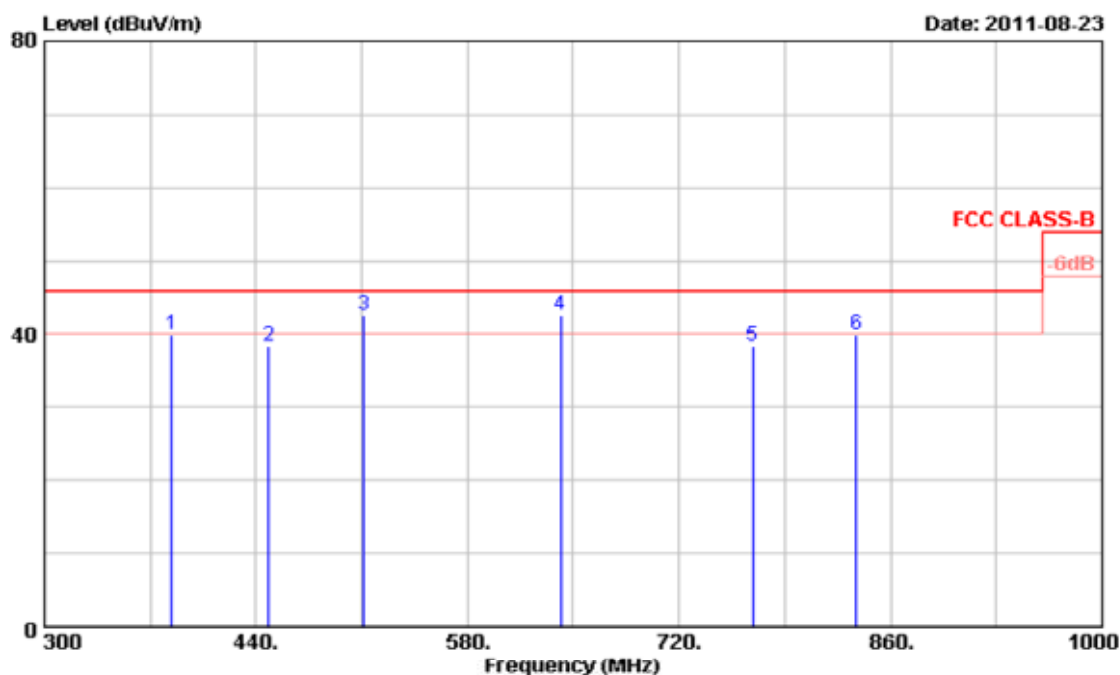
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.30	30.31	-5.29	25.02	40.00	-14.98	Peak	100	0
2	135.05	38.02	-9.91	28.11	43.50	-15.39	Peak	100	0
3	170.80	41.91	-11.65	30.26	43.50	-13.24	Peak	100	0
4	229.38	38.69	-6.36	32.33	46.00	-13.67	Peak	100	0
5	250.00	35.97	-5.38	30.59	46.00	-15.41	Peak	100	0
6	287.95	38.72	-6.46	32.26	46.00	-13.74	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo		Rate	: 270 Mbps



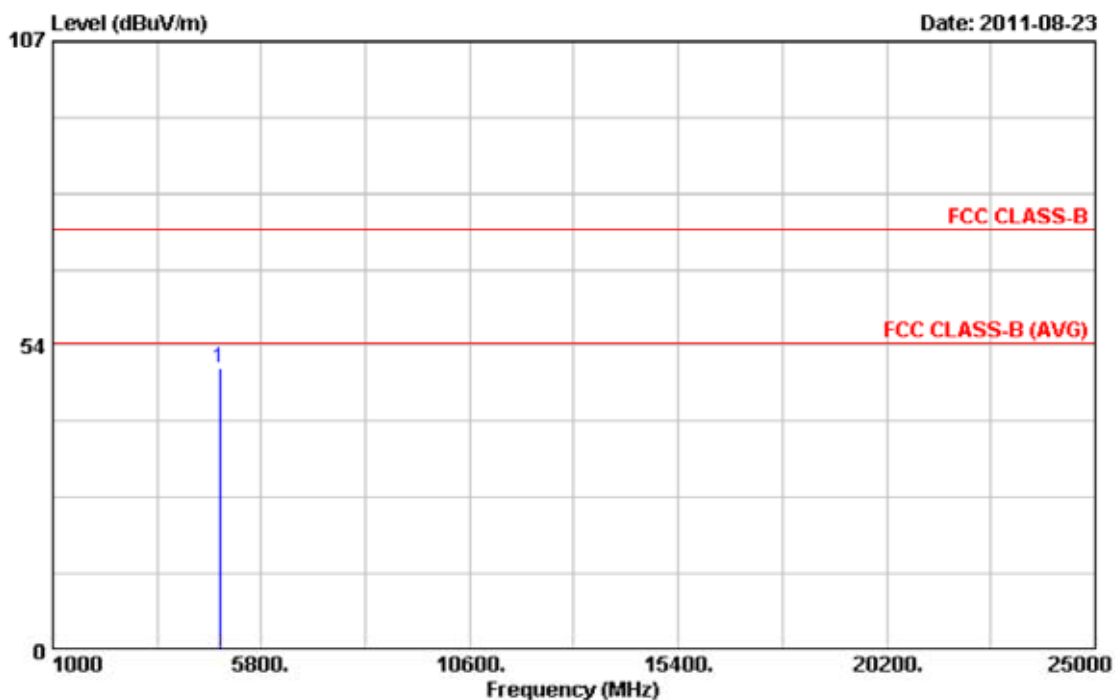
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	384.00	47.17	-7.26	39.91	46.00	-6.09	Peak	100	360
2	448.40	37.52	0.74	38.26	46.00	-7.74	Peak	100	360
3	511.40	39.32	3.21	42.53	46.00	-3.47	QP	100	360
4	641.60	37.71	4.94	42.65	46.00	-3.35	QP	100	360
5	769.00	30.03	8.36	38.39	46.00	-7.61	Peak	100	360
6	837.60	26.63	13.26	39.89	46.00	-6.11	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



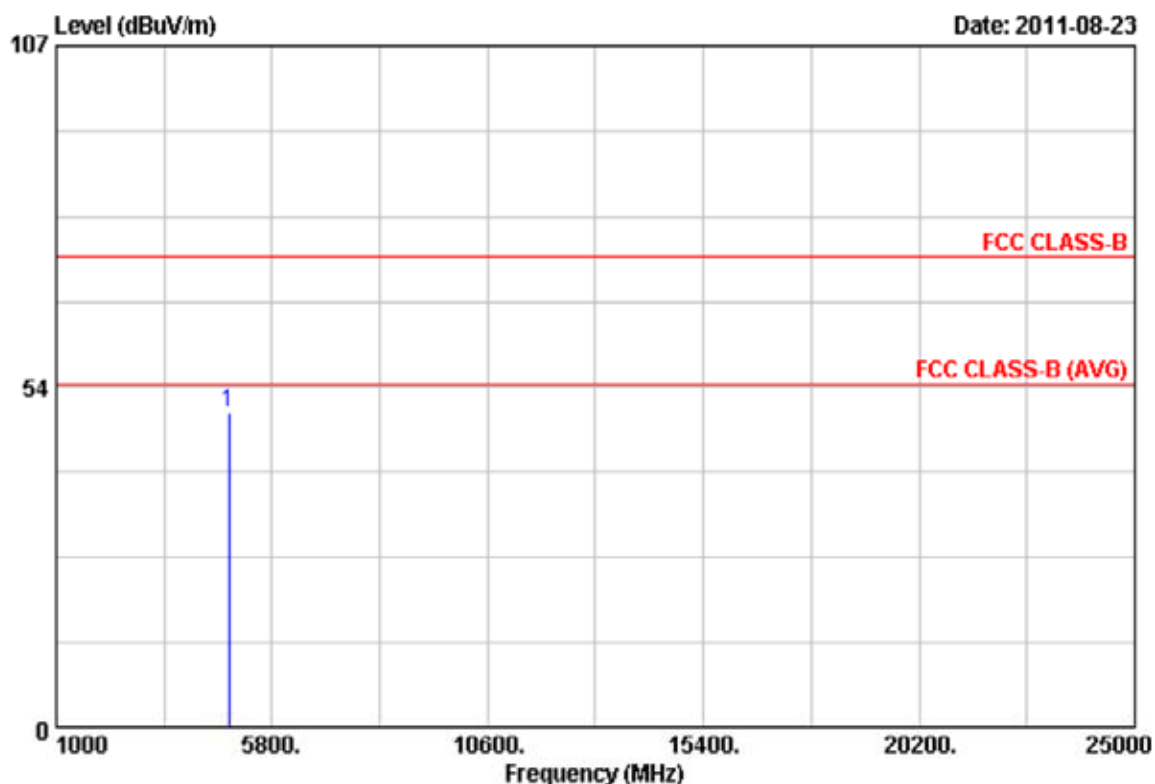
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.00	40.90	8.69	49.59	74.00	-24.41	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo		Rate	: 270 Mbps



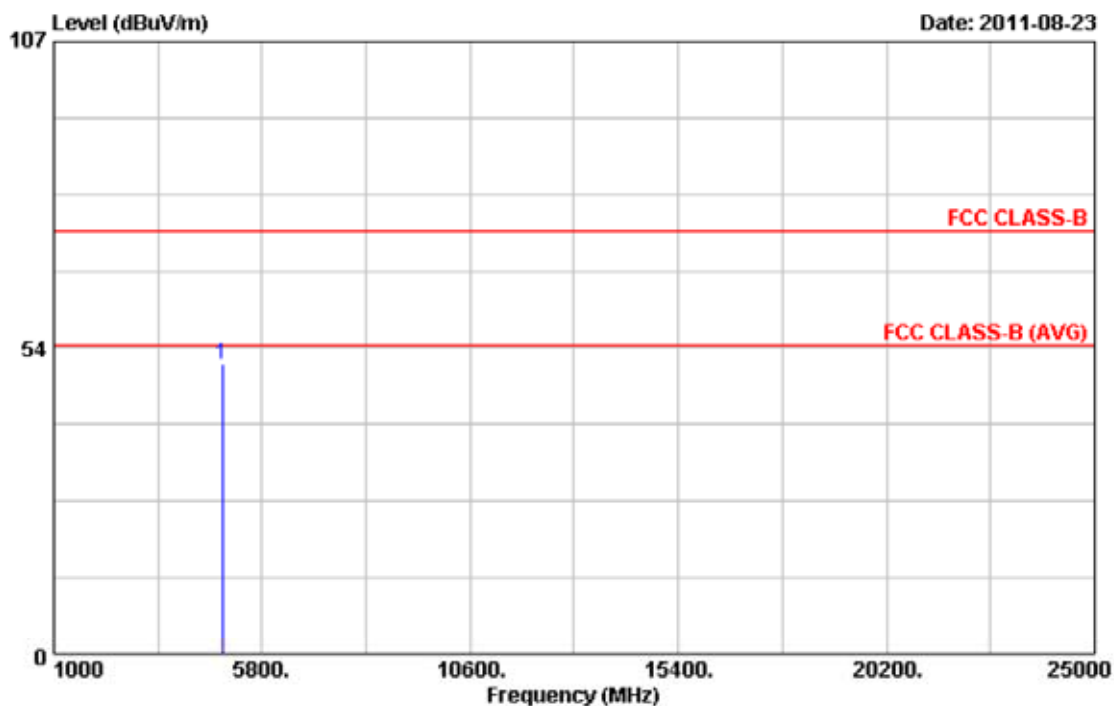
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.00	40.78	8.69	49.47	74.00	-24.53	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 6	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



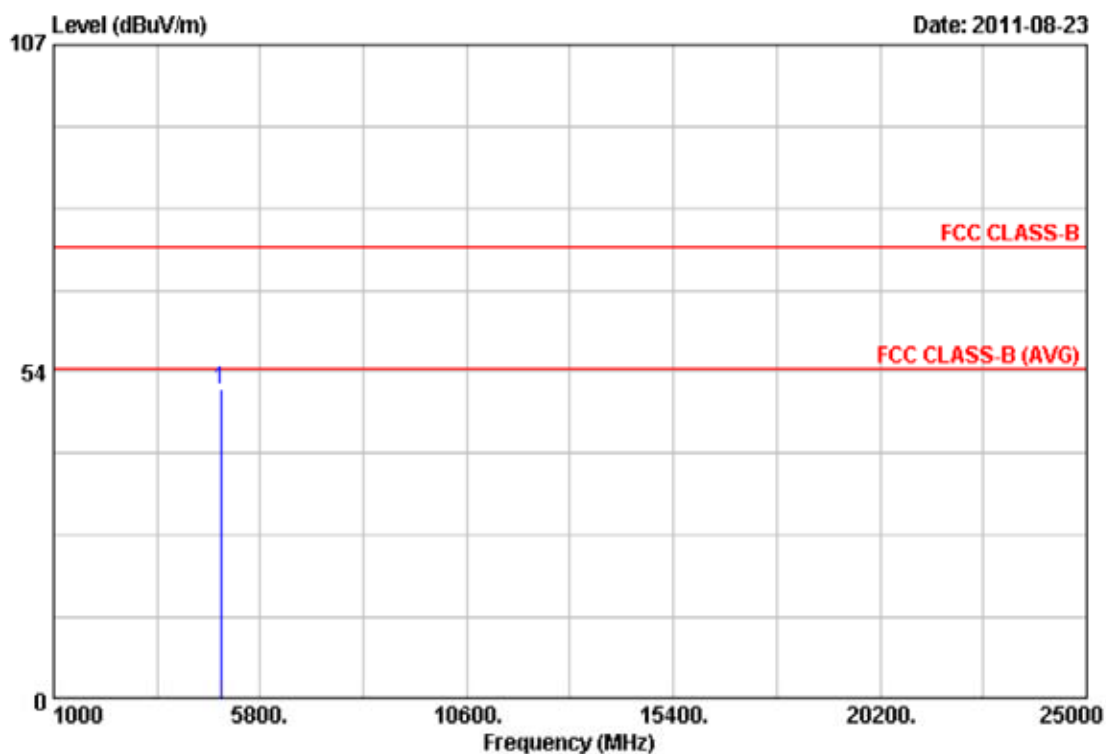
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	41.74	8.80	50.54	74.00	-23.46	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 6	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



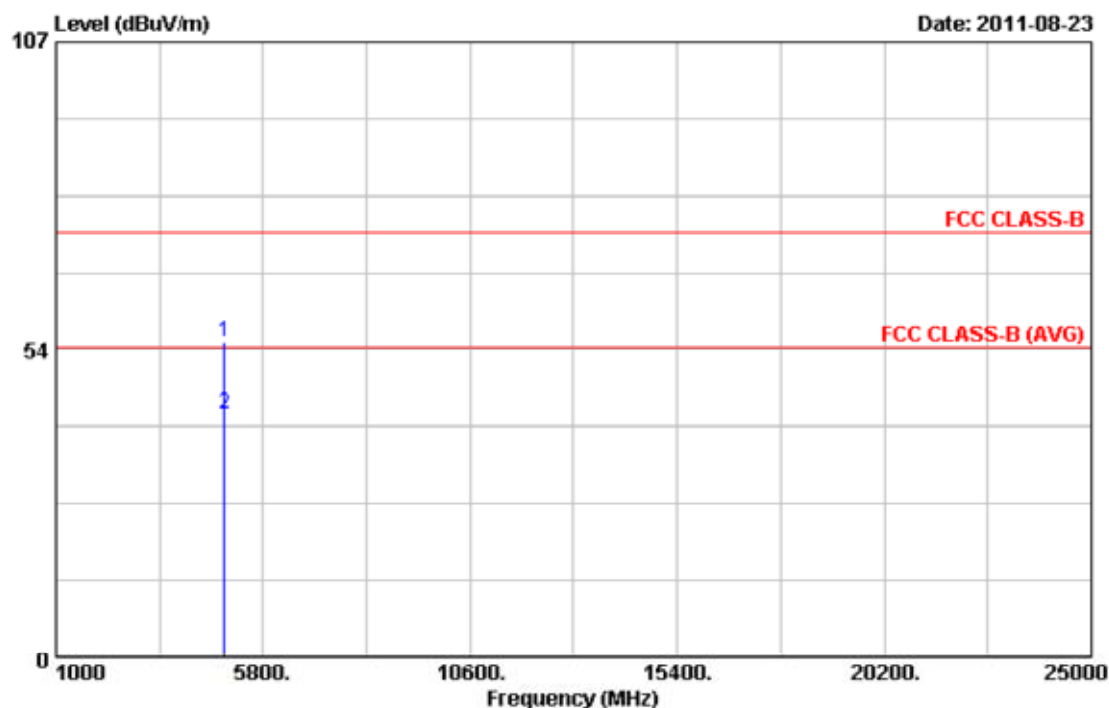
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	41.90	8.80	50.70	74.00	-23.30	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 9	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



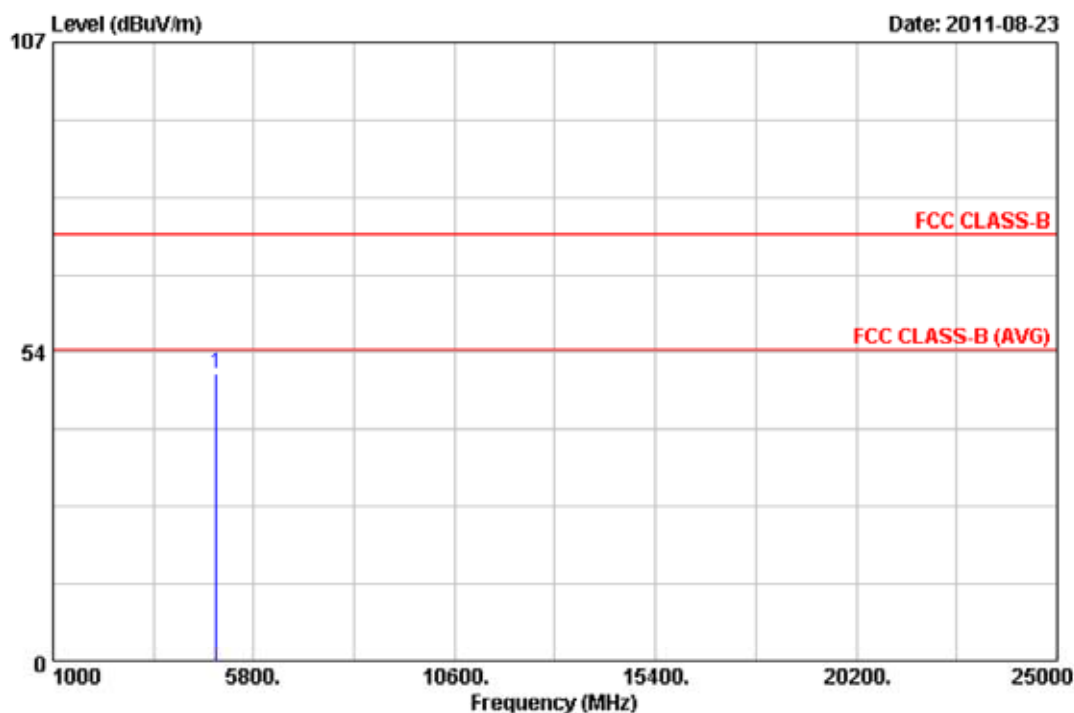
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4898.75	46.04	8.91	54.95	74.00	-19.05	Peak	100	0
2	4908.75	33.24	8.94	42.18	54.00	-11.82	Average	100	117

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 23 °C
Operation Channel	: 9	Humidity	: 65 %
Modulation Type	: 802.11n HT40	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



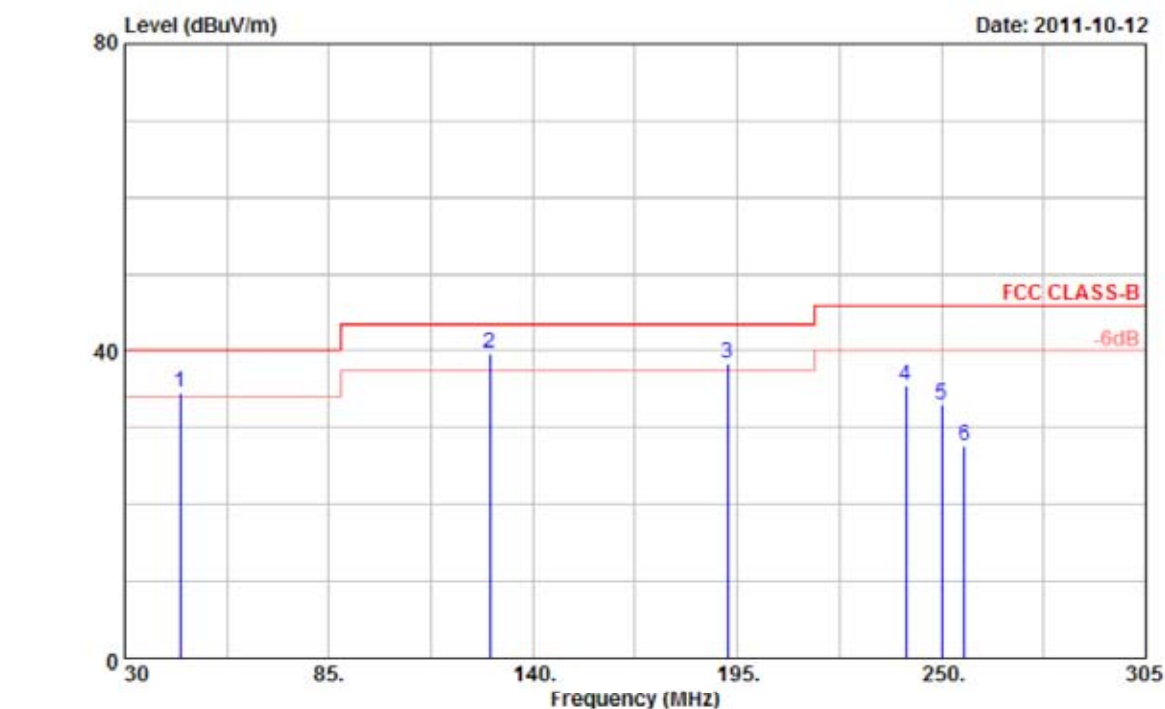
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4904.00	40.98	8.92	49.90	74.00	-24.10	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



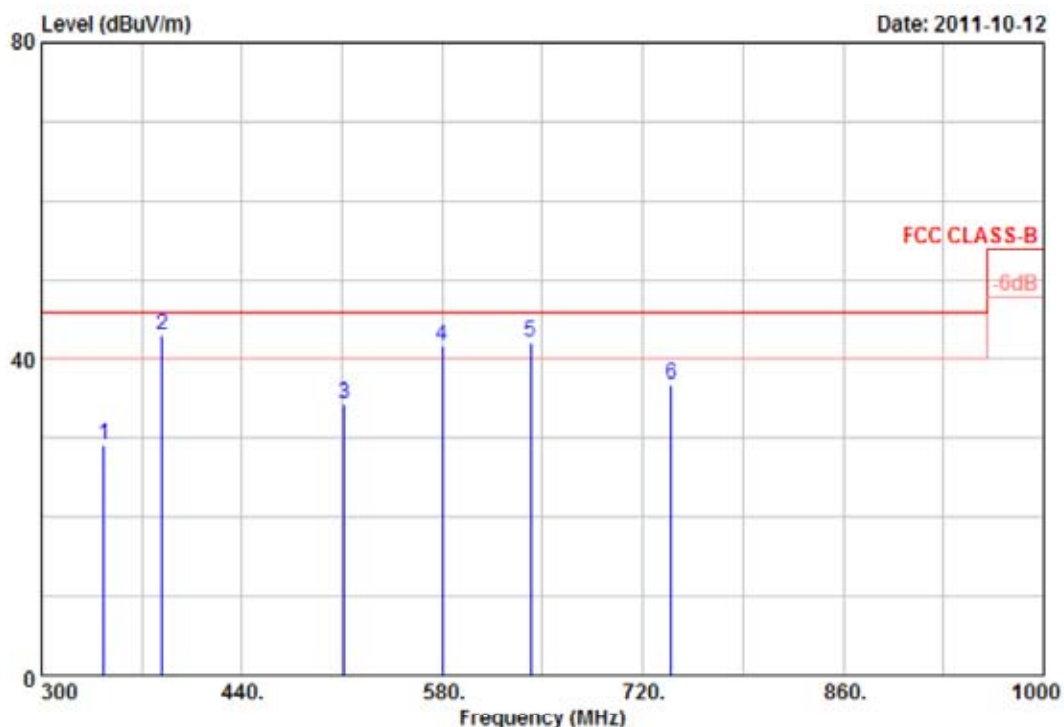
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.85	30.88	3.66	34.54	40.00	-5.46	QP	100	0
2	128.45	36.36	3.20	39.56	43.50	-3.94	QP	100	0
3	192.25	37.92	0.41	38.33	43.50	-5.17	QP	100	0
4	240.38	40.65	-5.17	35.48	46.00	-10.52	Peak	100	0
5	250.00	38.63	-5.74	32.89	46.00	-13.11	Peak	100	0
6	256.05	32.29	-4.58	27.71	46.00	-18.29	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



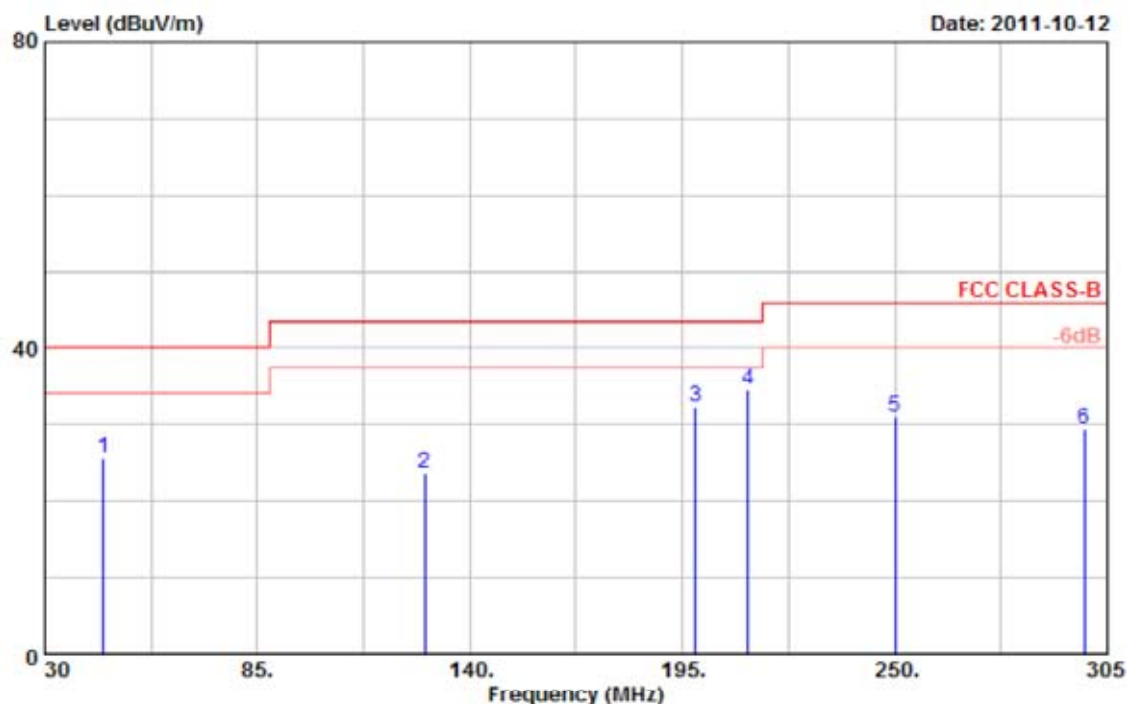
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	343.40	32.96	-3.82	29.14	46.00	-16.86	Peak	100	360
2	384.00	44.84	-1.88	42.96	46.00	-3.04	QP	100	360
3	511.40	33.34	0.90	34.24	46.00	-11.76	Peak	100	360
4	580.00	32.79	8.89	41.68	46.00	-4.32	QP	100	360
5	641.60	38.43	3.73	42.16	46.00	-3.84	QP	100	360
6	739.60	26.35	10.48	36.83	46.00	-9.17	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



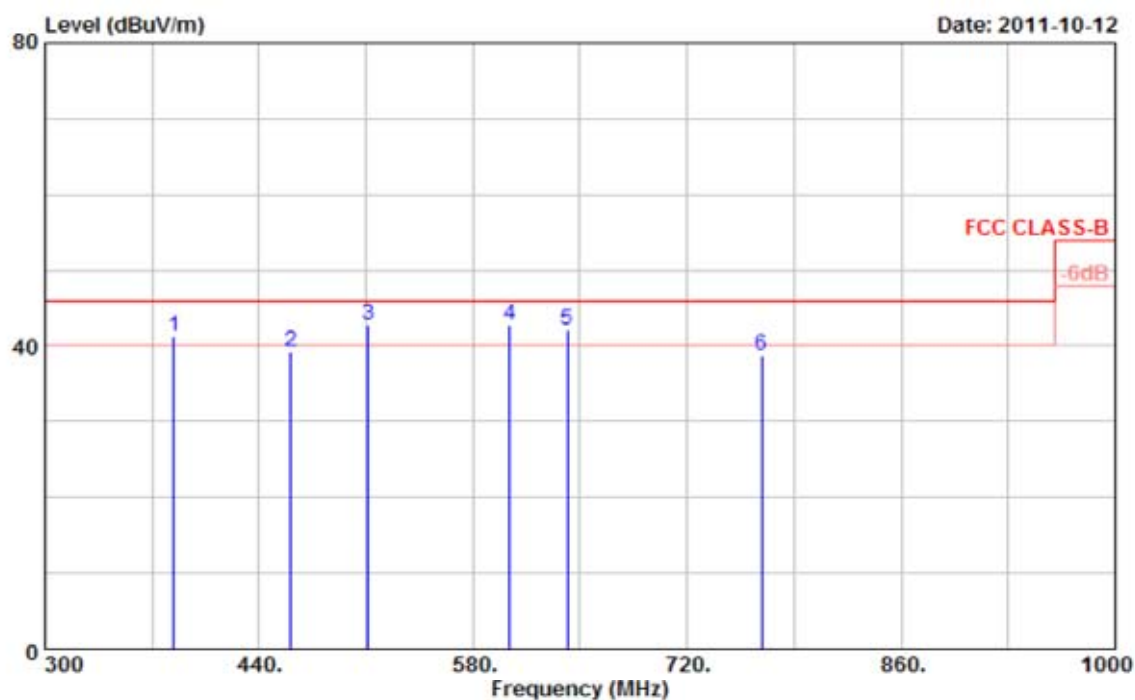
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	45.13	30.53	-4.85	25.68	40.00	-14.32	Peak	100	0
2	128.45	32.51	-8.89	23.62	43.50	-19.88	Peak	100	0
3	198.30	43.59	-11.32	32.27	43.50	-11.23	Peak	100	0
4	212.05	45.03	-10.39	34.64	43.50	-8.86	Peak	100	0
5	250.00	36.32	-5.38	30.94	46.00	-15.06	Peak	100	0
6	298.95	35.47	-5.95	29.52	46.00	-16.48	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



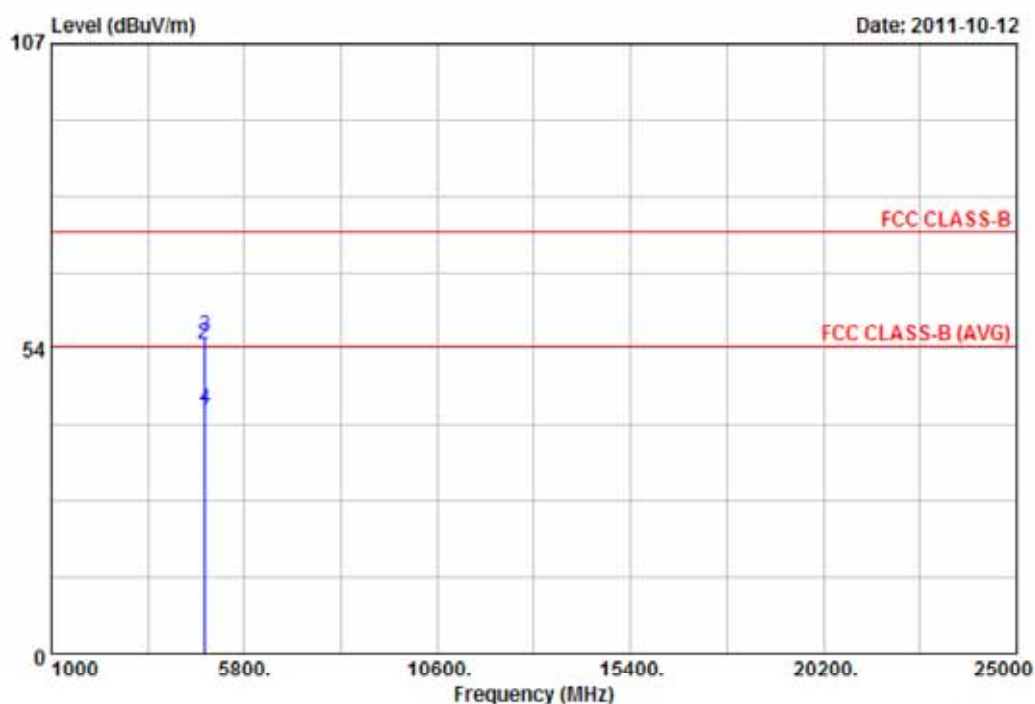
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	384.00	48.57	-7.26	41.31	46.00	-4.69	QP	100	360
2	461.00	38.56	0.62	39.18	46.00	-6.82	Peak	100	360
3	511.40	39.60	3.21	42.81	46.00	-3.19	QP	100	360
4	603.80	35.65	7.20	42.85	46.00	-3.15	QP	100	360
5	641.60	37.14	4.94	42.08	46.00	-3.92	QP	100	360
6	769.00	30.43	8.36	38.79	46.00	-7.21	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit Wifi+Zigbee	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11b+O-QPSK	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 11 Mbps



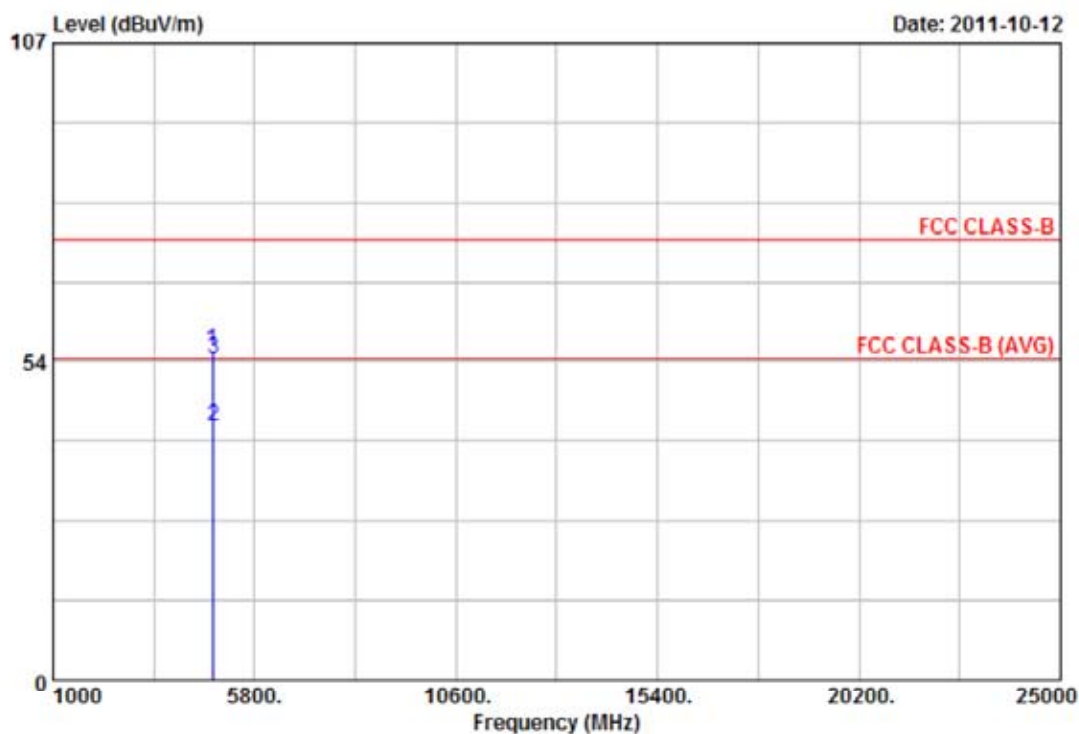
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4808.63	30.15	11.58	41.73	54.00	-12.27	Average	100	0
2	4808.78	42.63	11.58	54.21	74.00	-19.79	Peak	100	360
3	4823.75	43.82	11.85	55.67	74.00	-18.33	Peak	100	54
4	4825.75	31.02	11.91	42.93	54.00	-11.07	Average	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit Wifi+Zigbee	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11b+O-QPSK	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 11 Mbps



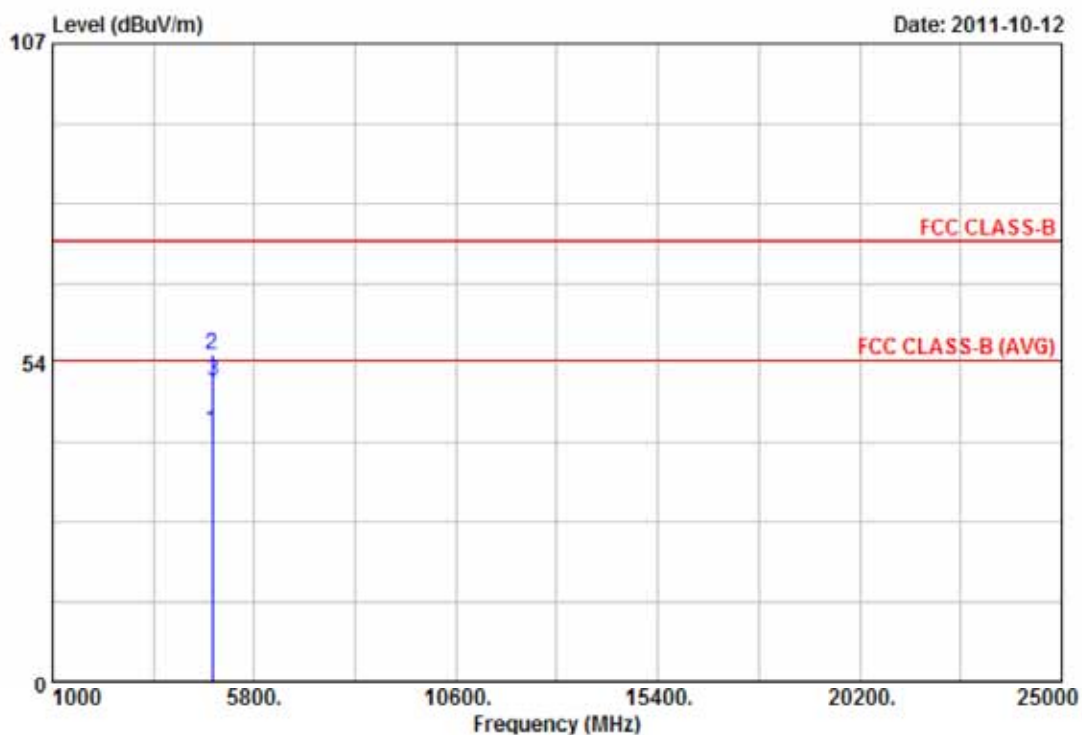
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4808.65	45.39	9.98	55.37	74.00	-18.63	Peak	150	144
2	4810.60	32.65	10.00	42.65	54.00	-11.35	Average	150	144
3	4821.63	43.65	10.17	53.82	74.00	-20.18	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit Wifi+Zigbee	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g+O-QPSK	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



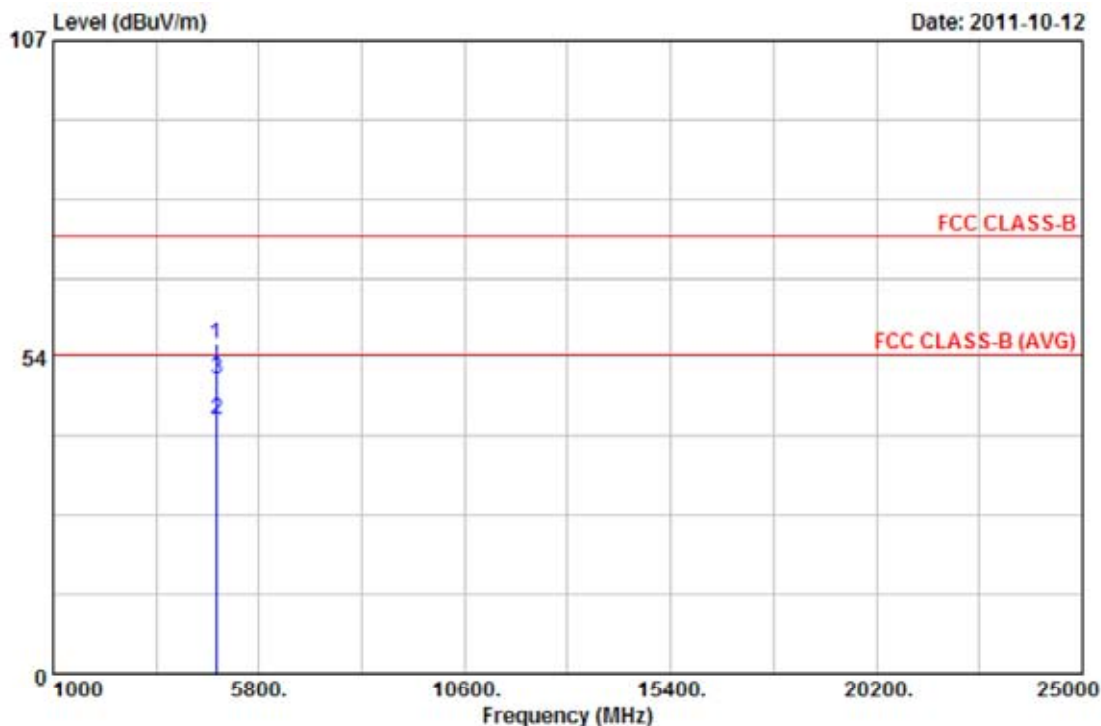
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4808.63	30.35	11.58	41.93	54.00	-12.07	Average	100	0
2	4808.78	43.16	11.58	54.74	74.00	-19.26	Peak	100	360
3	4824.00	38.36	11.86	50.22	74.00	-23.78	Peak	102	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit Wifi+Zigbee	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11g+O-QPSK	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 54 Mbps



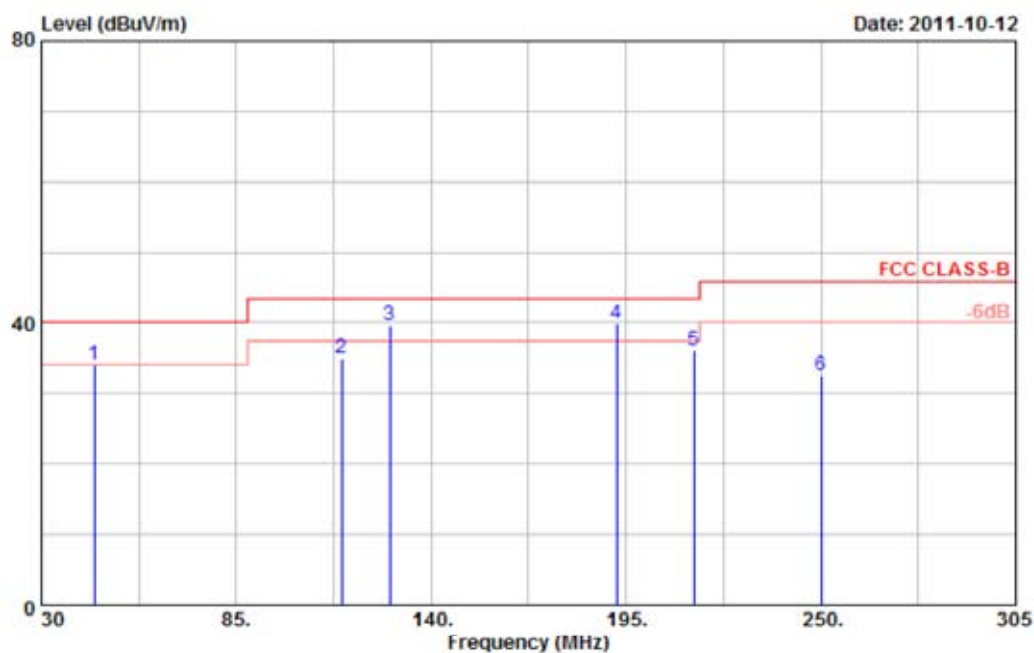
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4808.65	45.65	9.98	55.63	74.00	-18.37	Peak	150	144
2	4810.60	32.80	10.00	42.80	54.00	-11.20	Average	150	144
3	4824.00	39.62	10.20	49.82	74.00	-24.18	Peak	102	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



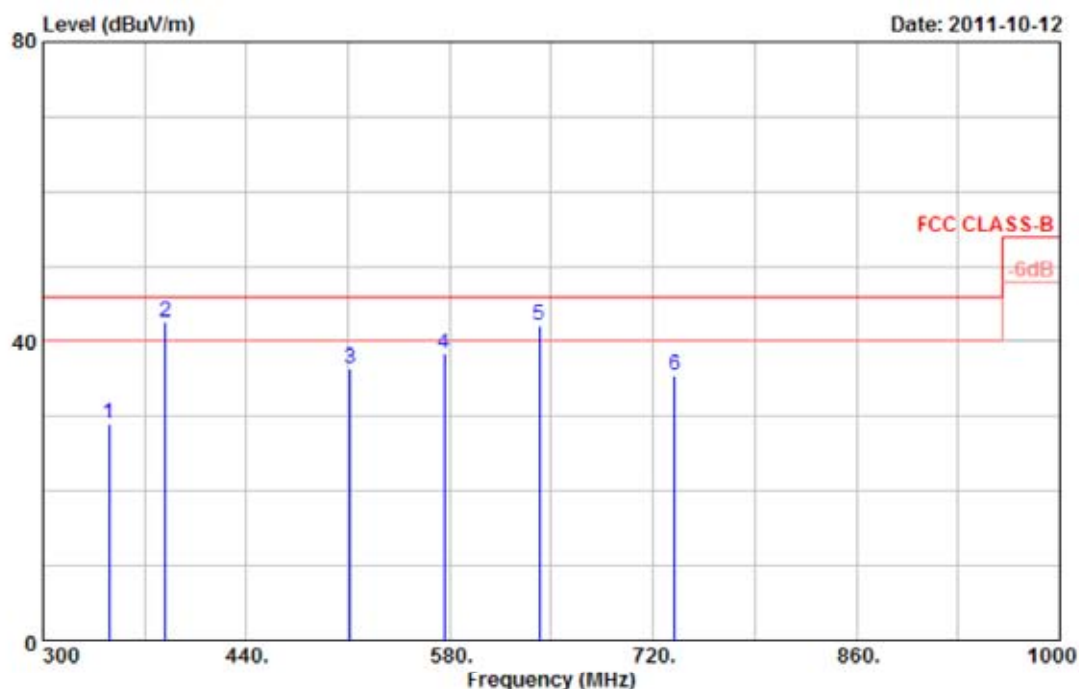
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.85	30.41	3.66	34.07	40.00	-5.93	QP	100	0
2	114.70	32.62	2.31	34.93	43.50	-8.57	Peak	100	0
3	128.45	36.47	3.20	39.67	43.50	-3.83	QP	100	0
4	192.25	39.43	0.41	39.84	43.50	-3.66	QP	100	0
5	214.25	38.55	-2.37	36.18	43.50	-7.32	Peak	100	0
6	250.00	38.25	-5.74	32.51	46.00	-13.49	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



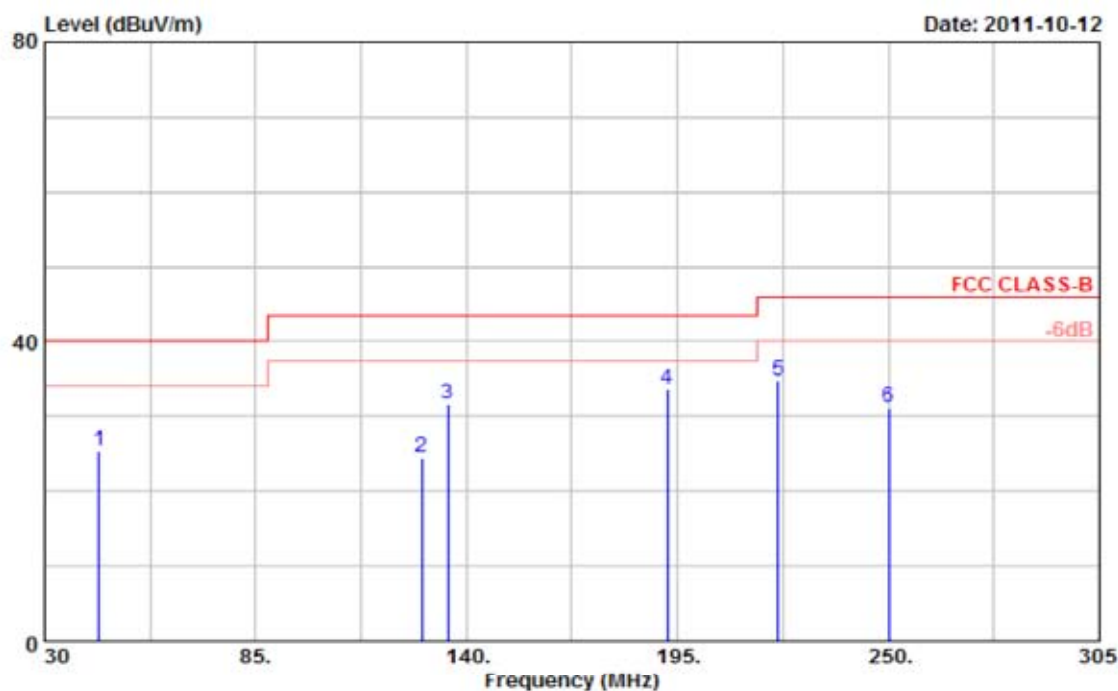
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	345.50	32.69	-3.83	28.86	46.00	-17.14	Peak	100	360
2	384.00	44.49	-1.88	42.61	46.00	-3.39	QP	100	360
3	511.40	35.33	0.90	36.23	46.00	-9.77	Peak	100	360
4	576.50	30.43	7.81	38.24	46.00	-7.76	Peak	100	360
5	641.60	38.35	3.73	42.08	46.00	-3.92	QP	100	360
6	734.70	24.16	11.36	35.52	46.00	-10.48	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



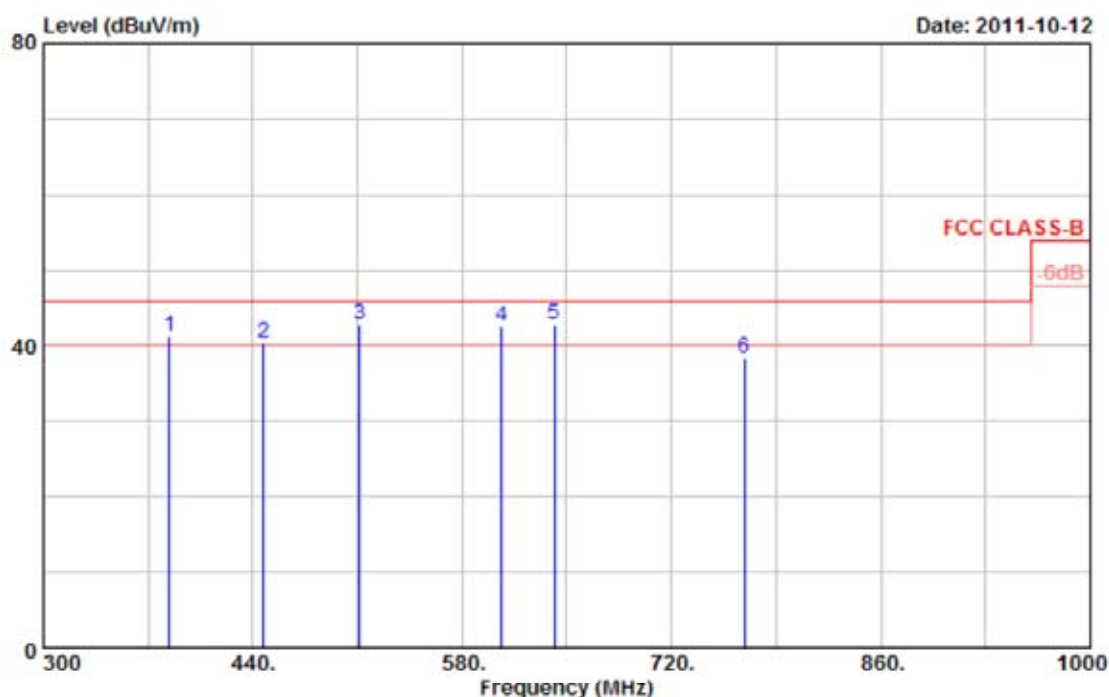
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.30	30.60	-5.29	25.31	40.00	-14.69	Peak	100	0
2	128.45	33.32	-8.89	24.43	43.50	-19.07	Peak	100	0
3	135.05	41.51	-9.91	31.60	43.50	-11.90	Peak	100	0
4	192.25	45.32	-11.74	33.58	43.50	-9.92	Peak	100	0
5	221.13	42.37	-7.54	34.83	46.00	-11.17	Peak	100	0
6	250.00	36.54	-5.38	31.16	46.00	-14.84	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



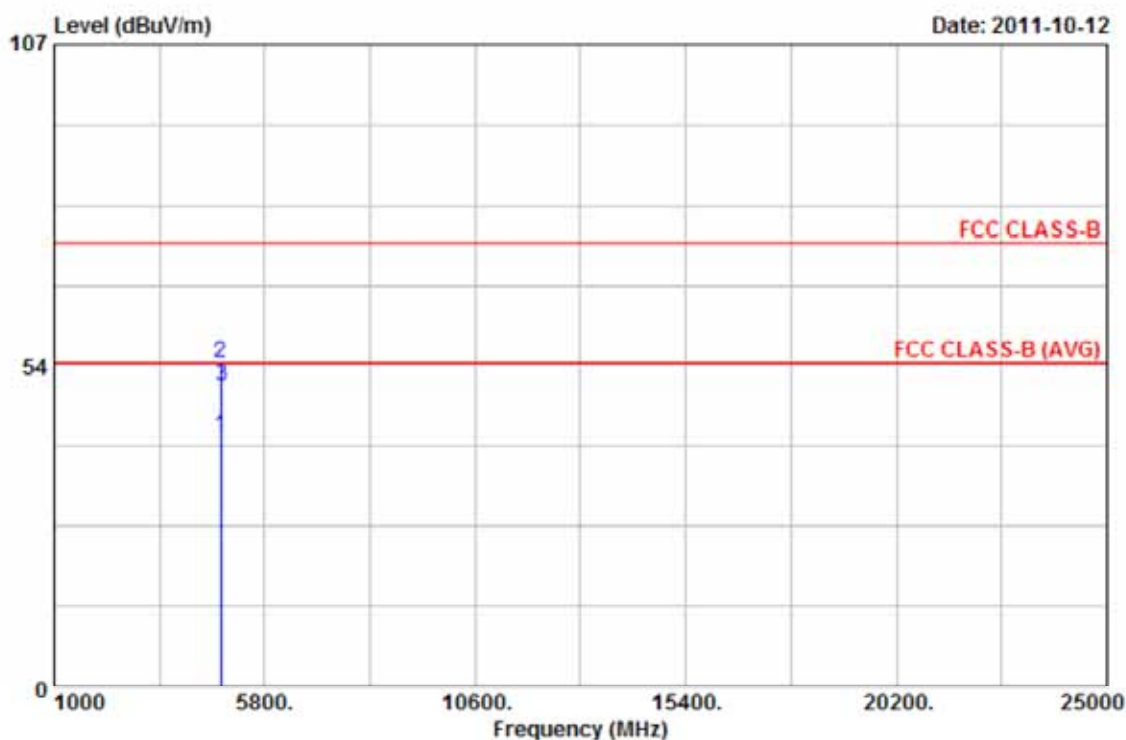
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	384.00	48.50	-7.26	41.24	46.00	-4.76	QP	100	360
2	447.00	39.67	0.61	40.28	46.00	-5.72	QP	100	360
3	511.40	39.53	3.21	42.74	46.00	-3.26	QP	100	360
4	606.60	35.47	7.15	42.62	46.00	-3.38	QP	100	360
5	641.60	37.77	4.94	42.71	46.00	-3.29	QP	100	360
6	769.00	29.97	8.36	38.33	46.00	-7.67	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit Wifi+Zigbee	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20+O-QPSK	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



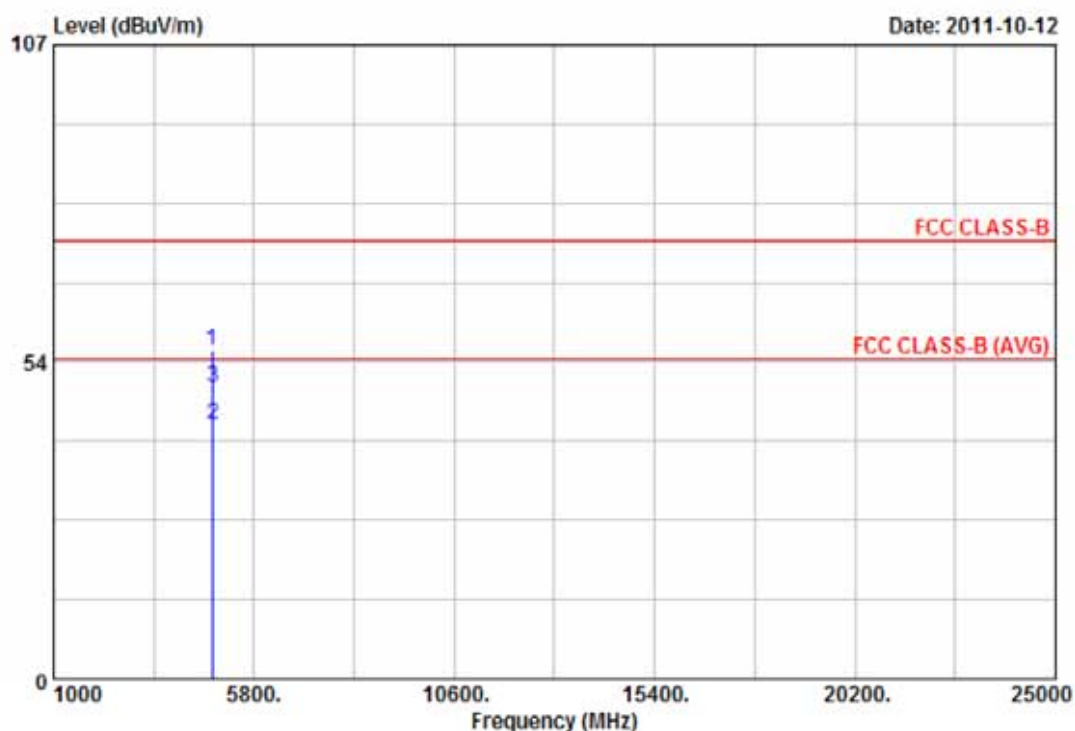
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4808.63	30.15	11.58	41.73	54.00	-12.27	Average	100	0
2	4808.78	42.46	11.58	54.04	74.00	-19.96	Peak	100	360
3	4824.00	38.26	11.86	50.12	74.00	-23.88	Peak	100	317

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit Wifi+Zigbee	Temperature	: 23 °C
Operation Channel	: 1	Humidity	: 65 %
Modulation Type	: 802.11n HT20+O-QPSK	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 130 Mbps



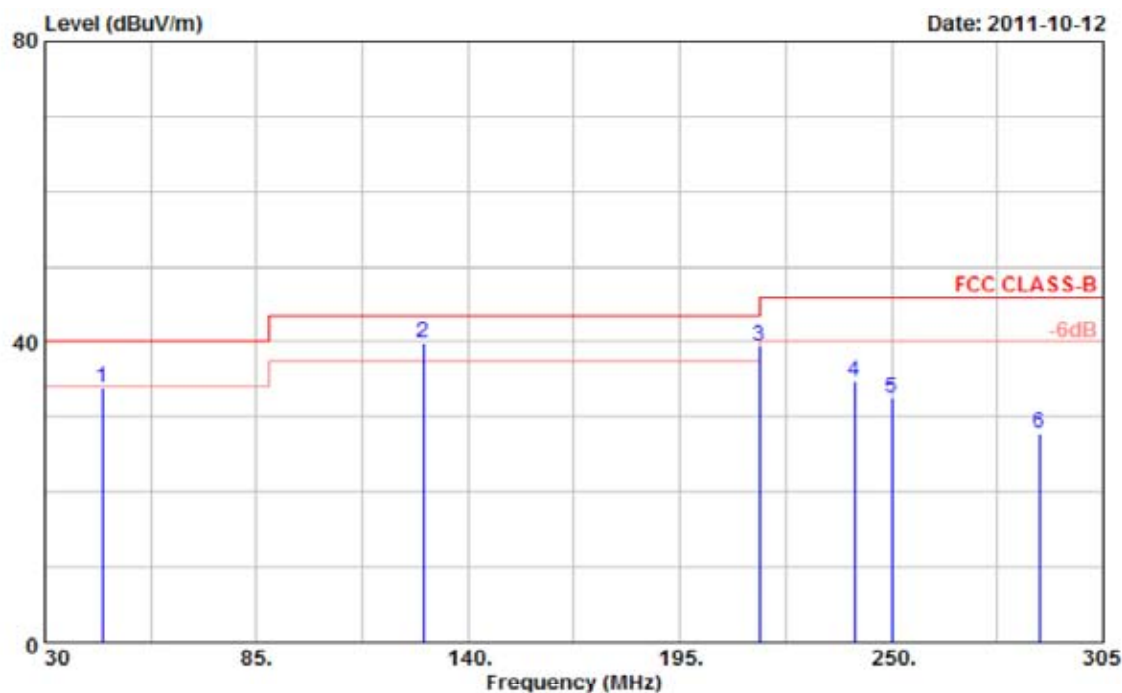
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4808.65	45.56	9.98	55.54	74.00	-18.46	Peak	150	144
2	4810.60	32.90	10.00	42.90	54.00	-11.10	Average	150	144
3	4824.00	38.84	10.20	49.04	74.00	-24.96	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



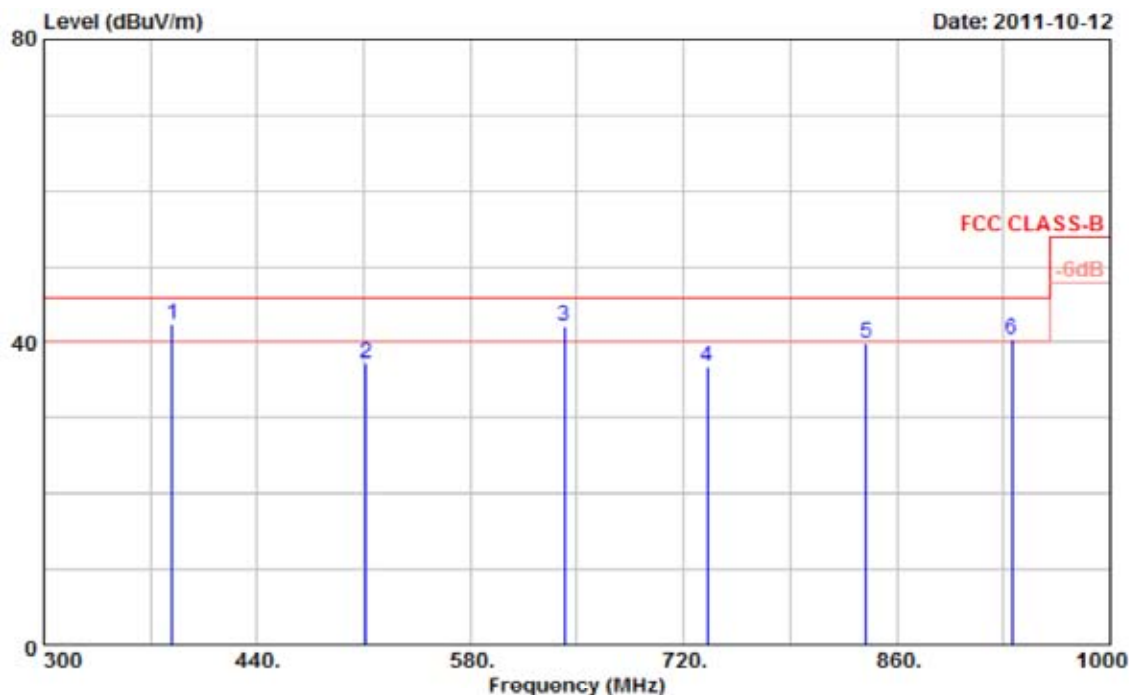
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.85	30.27	3.66	33.93	40.00	-6.07	Peak	100	0
2	128.45	36.62	3.20	39.82	43.50	-3.68	QP	100	0
3	215.63	41.47	-2.01	39.46	43.50	-4.04	QP	100	0
4	240.38	39.89	-5.17	34.72	46.00	-11.28	Peak	100	0
5	250.00	38.38	-5.74	32.64	46.00	-13.36	Peak	100	0
6	288.50	30.87	-3.01	27.86	46.00	-18.14	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo		Rate	: 270 Mbps



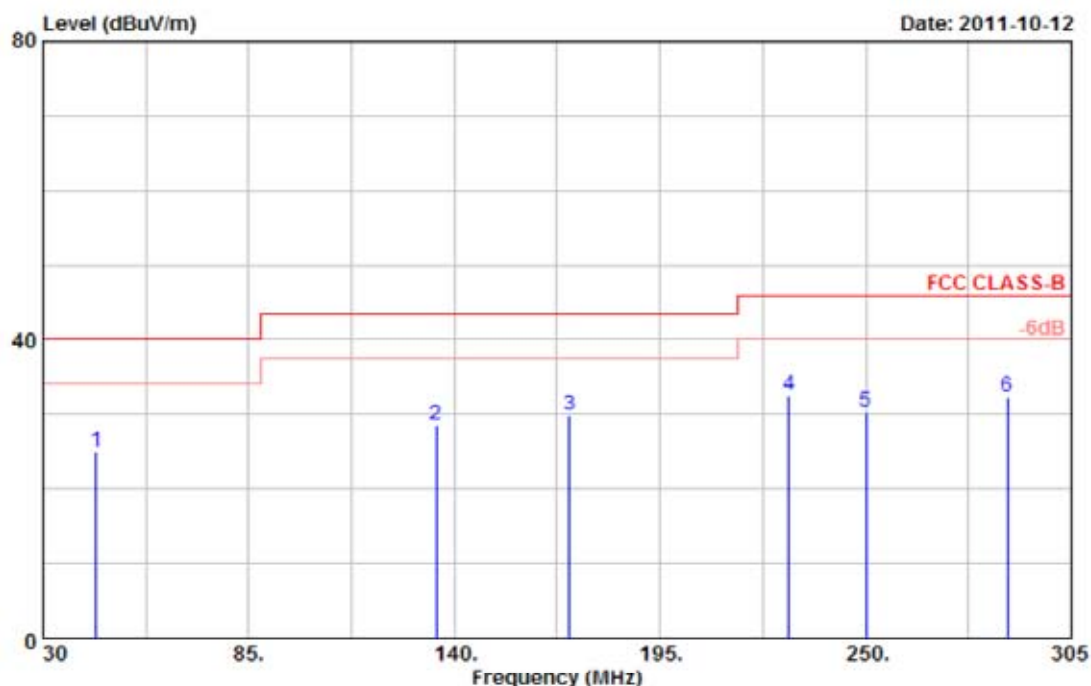
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	384.00	44.13	-1.88	42.25	46.00	-3.75	QP	100	360
2	511.40	36.35	0.90	37.25	46.00	-8.75	Peak	100	360
3	641.60	38.32	3.73	42.05	46.00	-3.95	QP	100	360
4	735.40	25.48	11.32	36.80	46.00	-9.20	Peak	100	360
5	839.70	24.33	15.49	39.82	46.00	-6.18	Peak	100	360
6	935.60	25.47	14.79	40.26	46.00	-5.74	QP	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



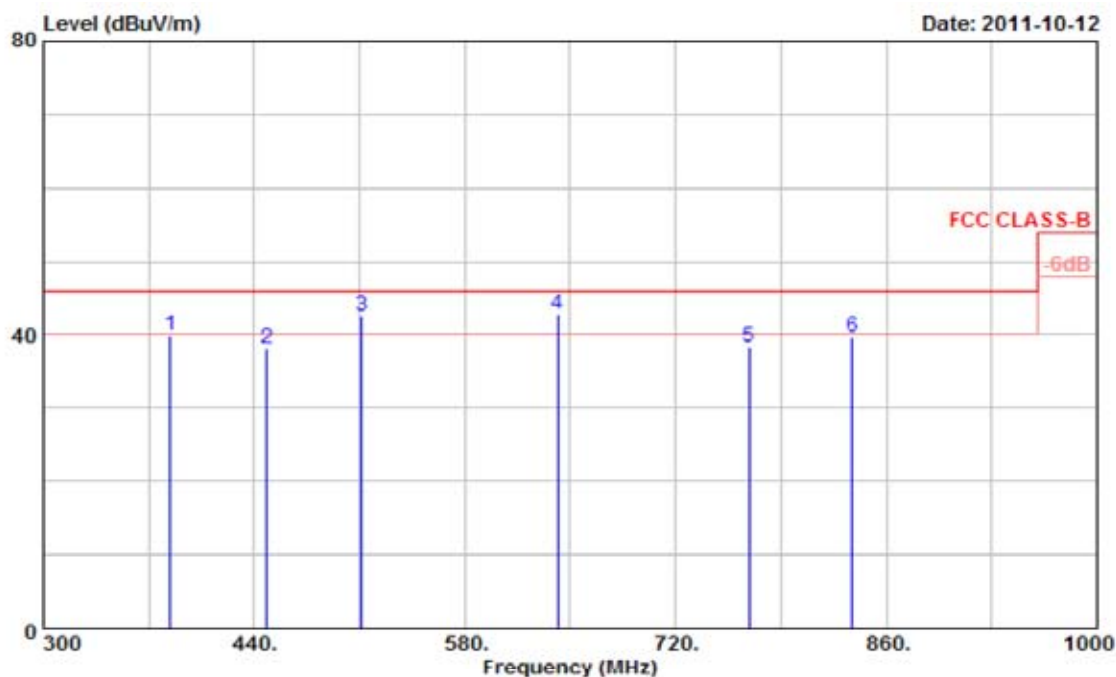
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	44.30	30.17	-5.29	24.88	40.00	-15.12	Peak	100	0
2	135.05	38.37	-9.91	28.46	43.50	-15.04	Peak	100	0
3	170.80	41.43	-11.65	29.78	43.50	-13.72	Peak	100	0
4	229.38	38.85	-6.36	32.49	46.00	-13.51	Peak	100	0
5	250.00	35.66	-5.38	30.28	46.00	-15.72	Peak	100	0
6	287.95	38.74	-6.46	32.28	46.00	-13.72	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40+Zigbee	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



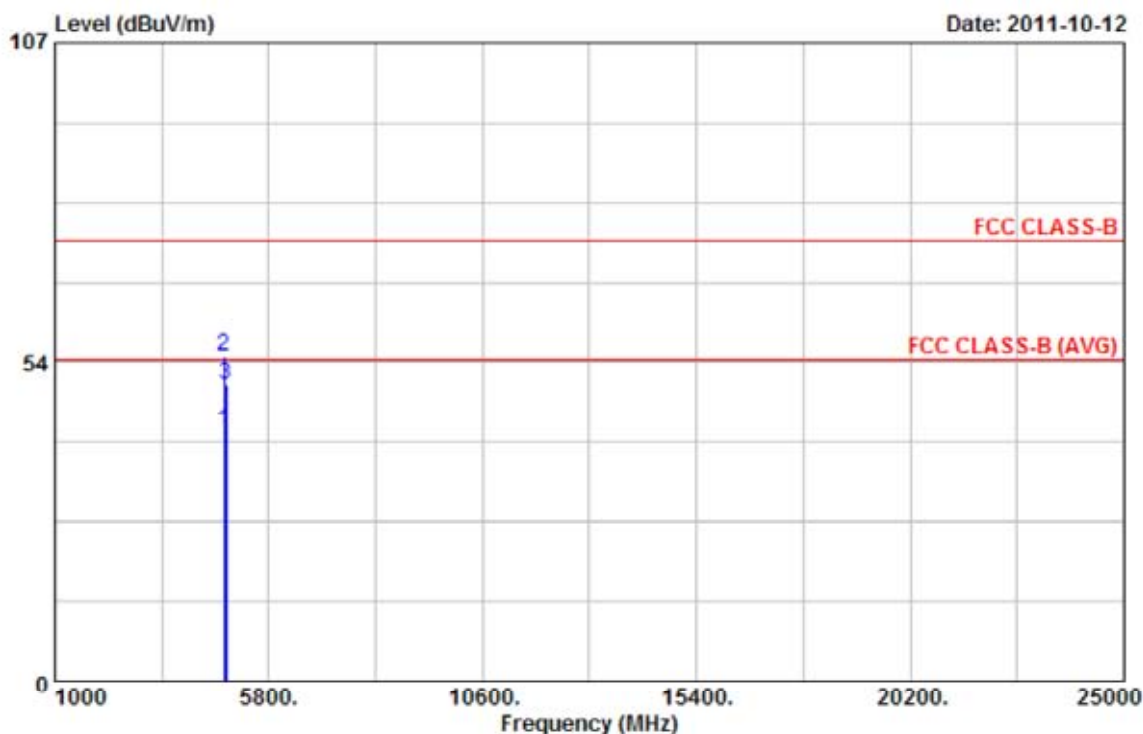
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	384.00	47.13	-7.26	39.87	46.00	-6.13	Peak	100	360
2	448.40	37.33	0.74	38.07	46.00	-7.93	Peak	100	360
3	511.40	39.32	3.21	42.53	46.00	-3.47	QP	100	360
4	641.60	37.76	4.94	42.70	46.00	-3.30	QP	100	360
5	769.00	30.06	8.36	38.42	46.00	-7.58	Peak	100	360
6	837.60	26.33	13.26	39.59	46.00	-6.41	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit Wifi+Zigbee	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40+O-QPSK	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



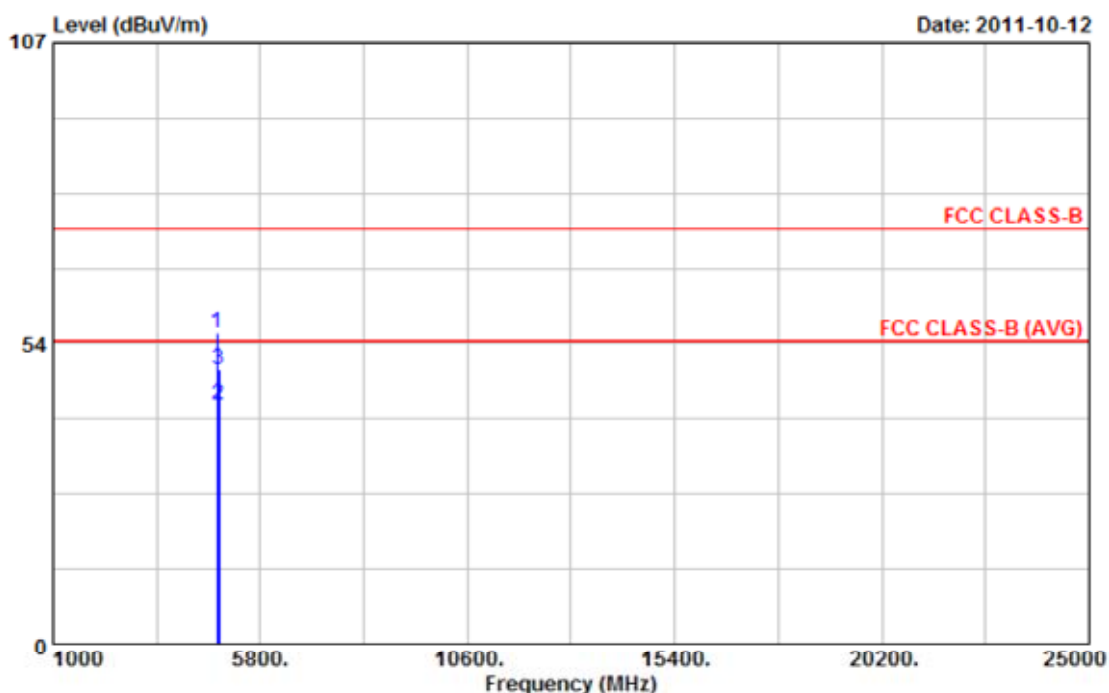
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4808.63	30.45	11.58	42.03	54.00	-11.97	Average	100	0
2	4808.78	42.87	11.58	54.45	74.00	-19.55	Peak	100	360
3	4844.00	37.56	12.24	49.80	74.00	-24.20	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit Wifi+Zigbee	Temperature	: 23 °C
Operation Channel	: 3	Humidity	: 65 %
Modulation Type	: 802.11n HT40+O-QPSK	Atmospheric Pressure	: 1020 hPa
Memo	:	Rate	: 270 Mbps



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4808.65	45.46	9.98	55.44	74.00	-18.56	Peak	150	144
2	4810.60	32.70	10.00	42.70	54.00	-11.30	Average	150	144
3	4844.00	38.46	10.50	48.96	74.00	-25.04	Peak	100	360

Notes:

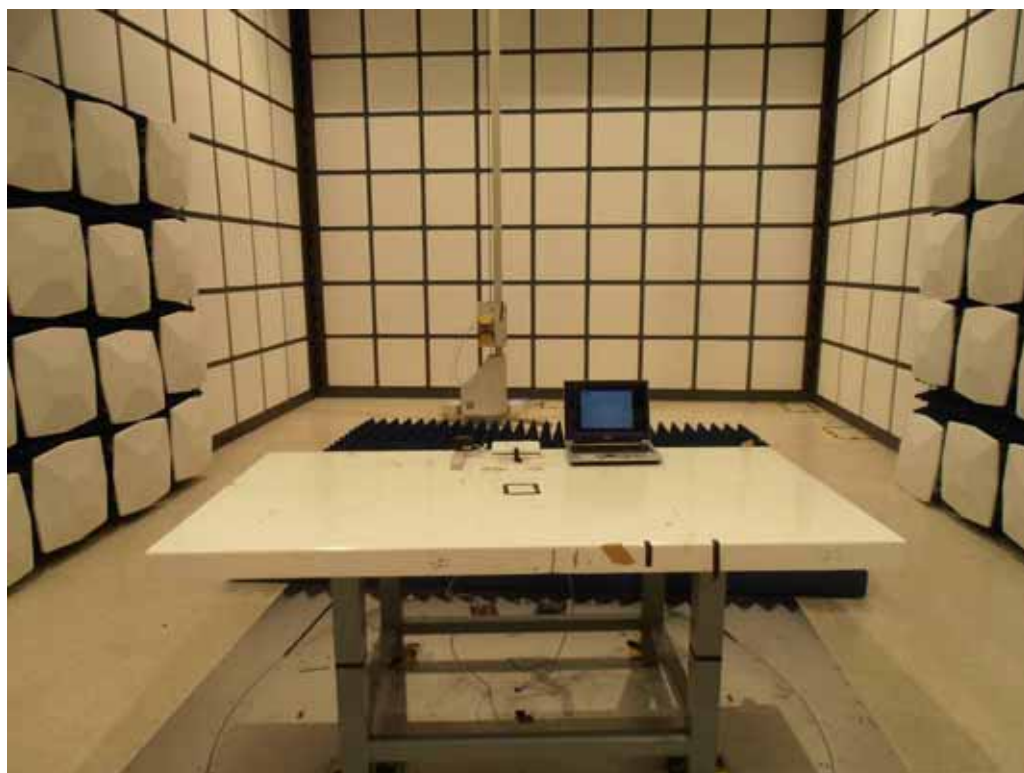
1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.

Test engineer: Ben

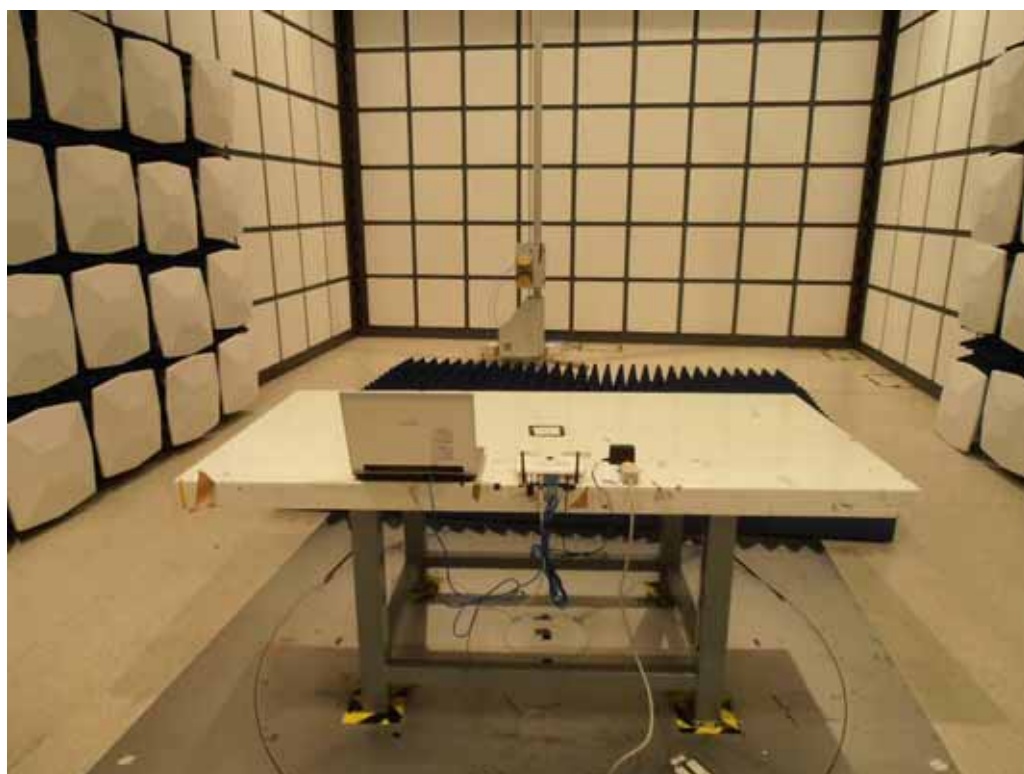


5.6 Test Photographs

Front View



Rear View





6. 6dB Bandwidth Measurement Data

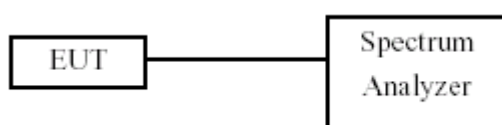
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2011/05/05	2012/05/04

6.5 Test Result and Data

Test Date: Aug. 16, 2011

Temperature: 25

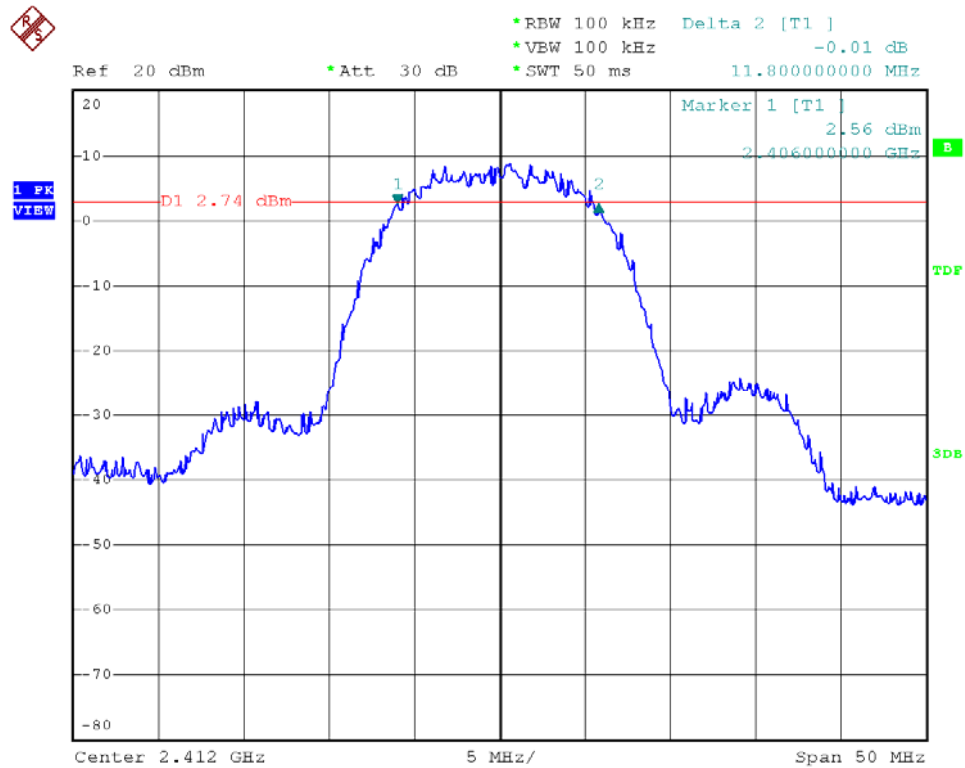
Atmospheric pressure: 1020 hPa

Humidity: 46%

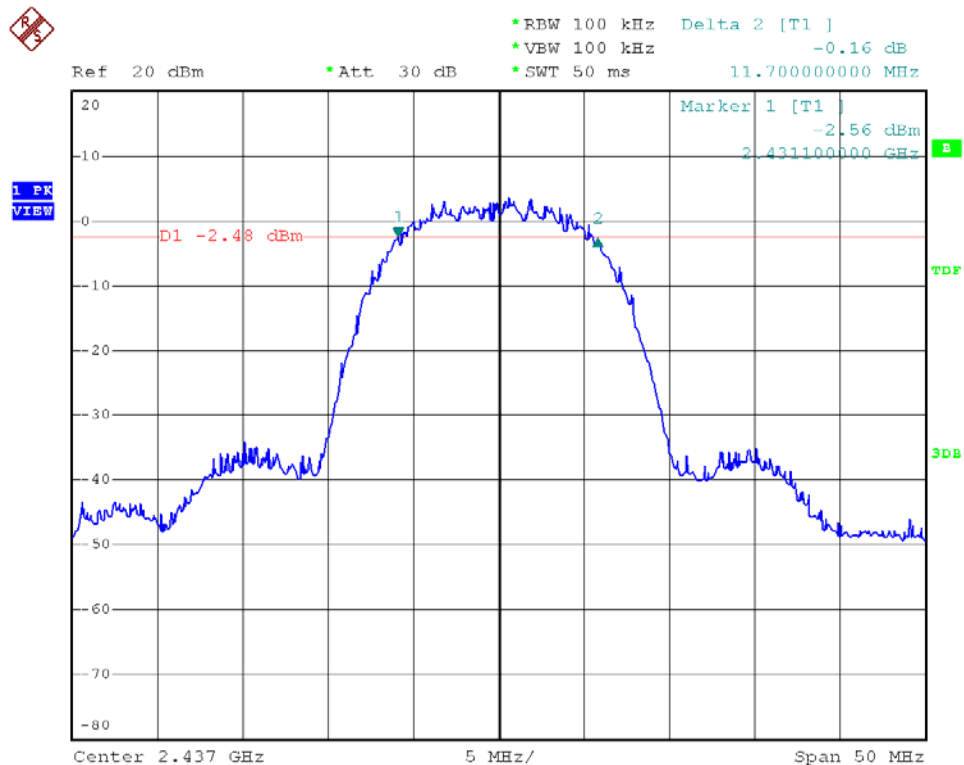
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			ANT R	ANT L
802.11b (11Mbps)	01	2412	11.8	12.0
	06	2437	11.7	11.9
	11	2462	11.8	11.9
802.11g (54Mbps)	01	2412	16.5	16.5
	06	2437	16.5	16.4
	11	2462	16.5	16.4
802.11n HT20 (130Mbps)	01	2412	16.8	17.3
	06	2437	16.6	17.3
	11	2462	16.8	16.9
802.11n HT40 (270Mbps)	03	2422	35.4	34.4
	06	2437	35.2	34.4
	09	2452	35.4	34.0



Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 01

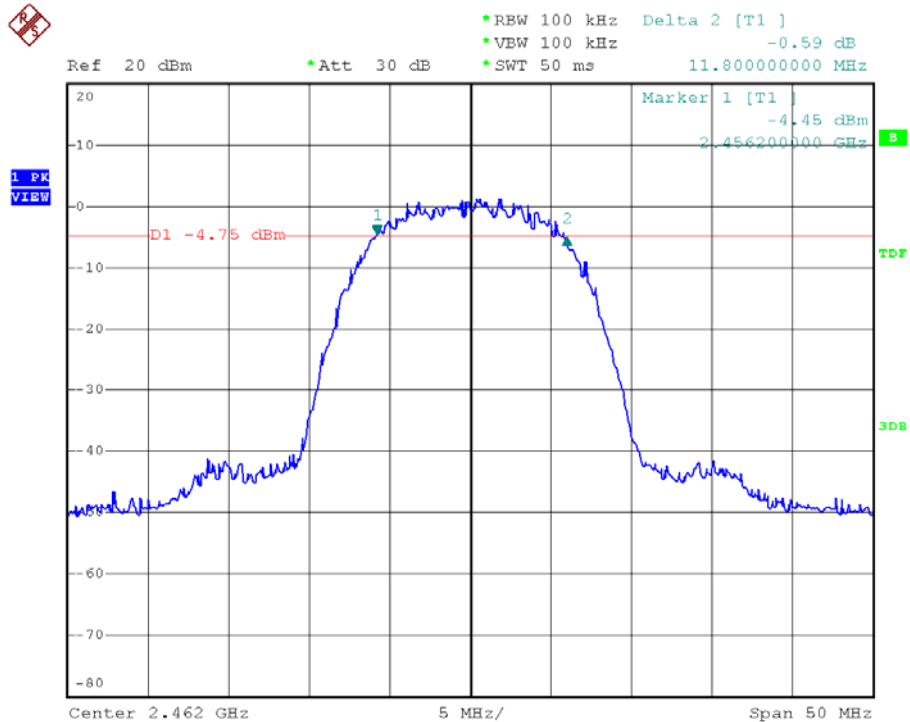


Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 06

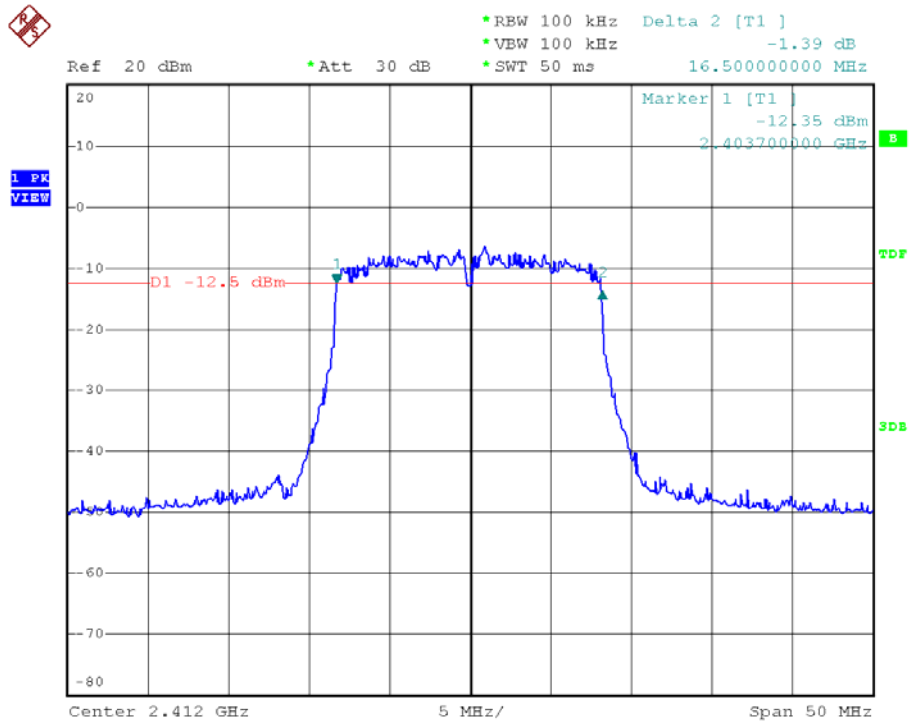




Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 11

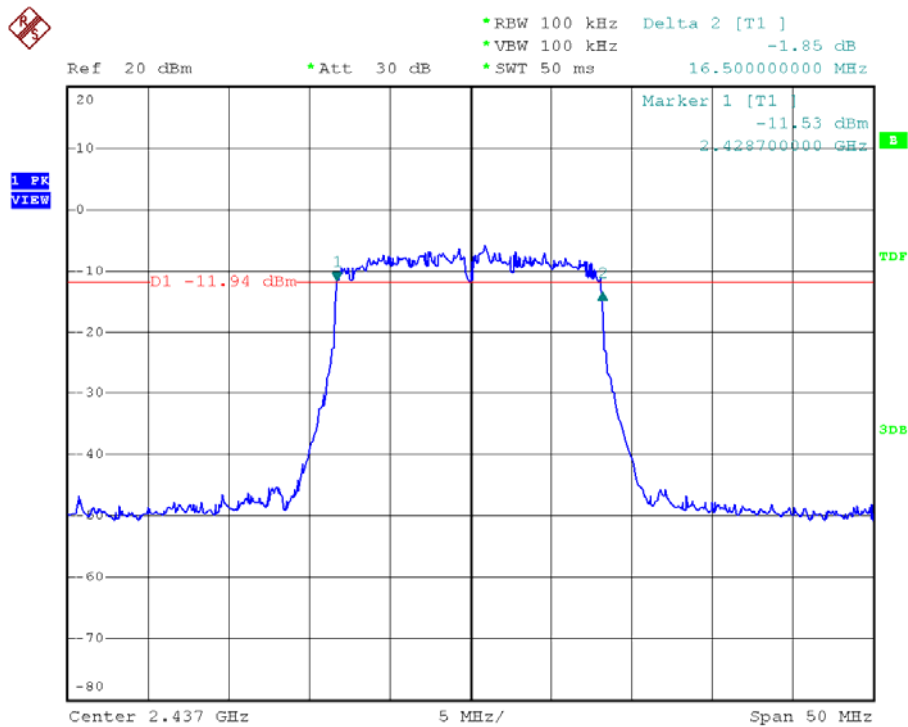


Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 01

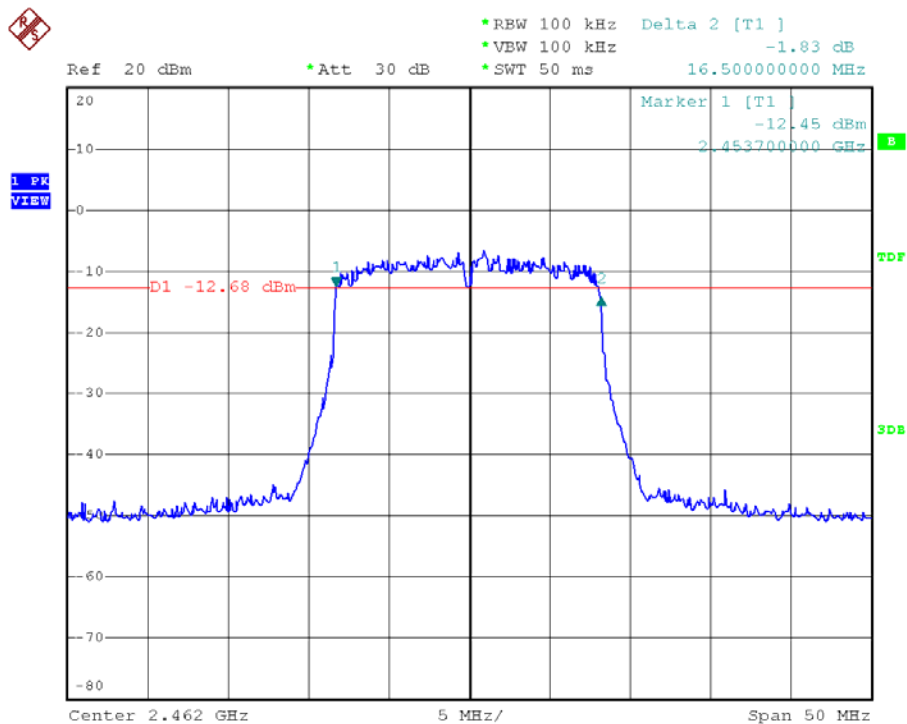




Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 06

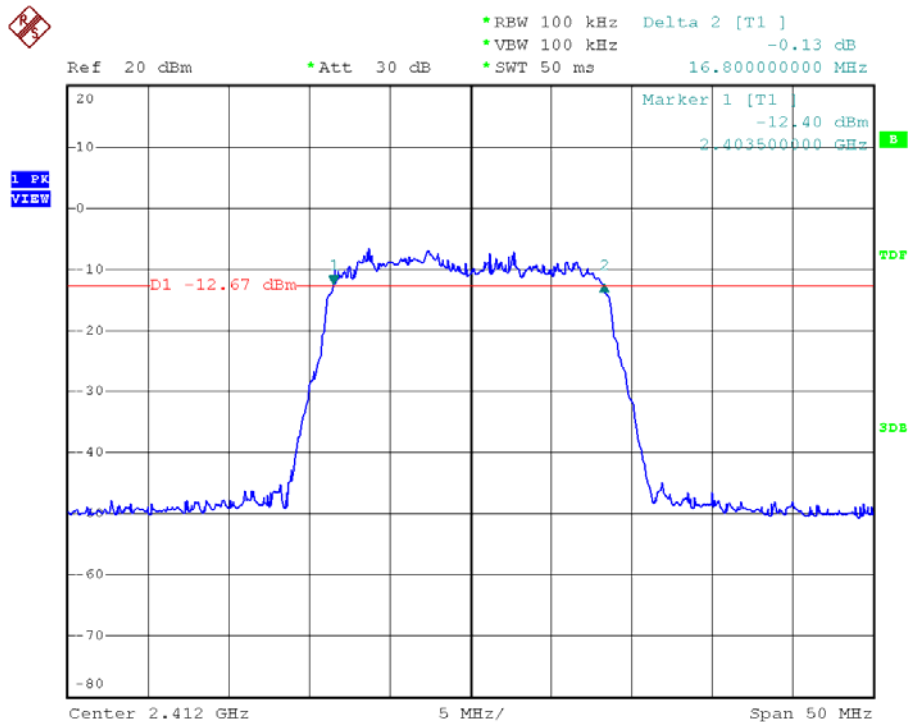


Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 11

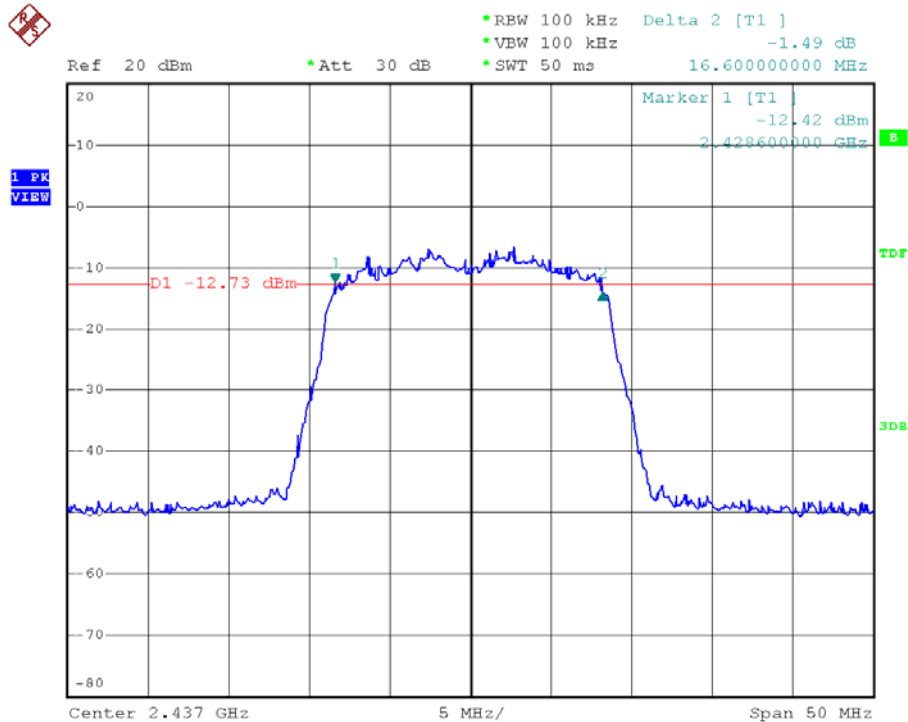




Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 01

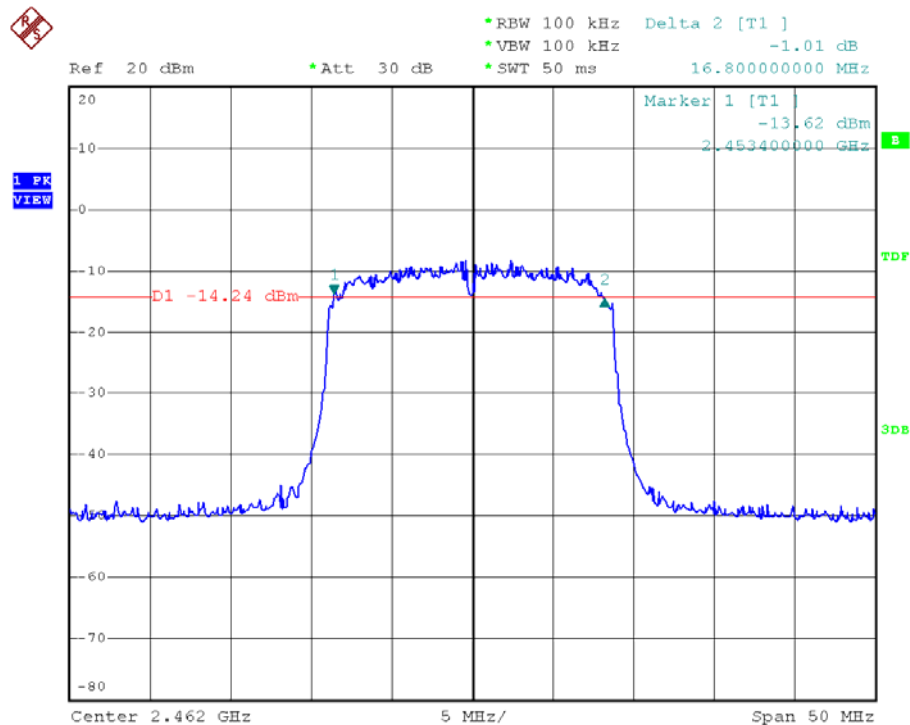


Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 06

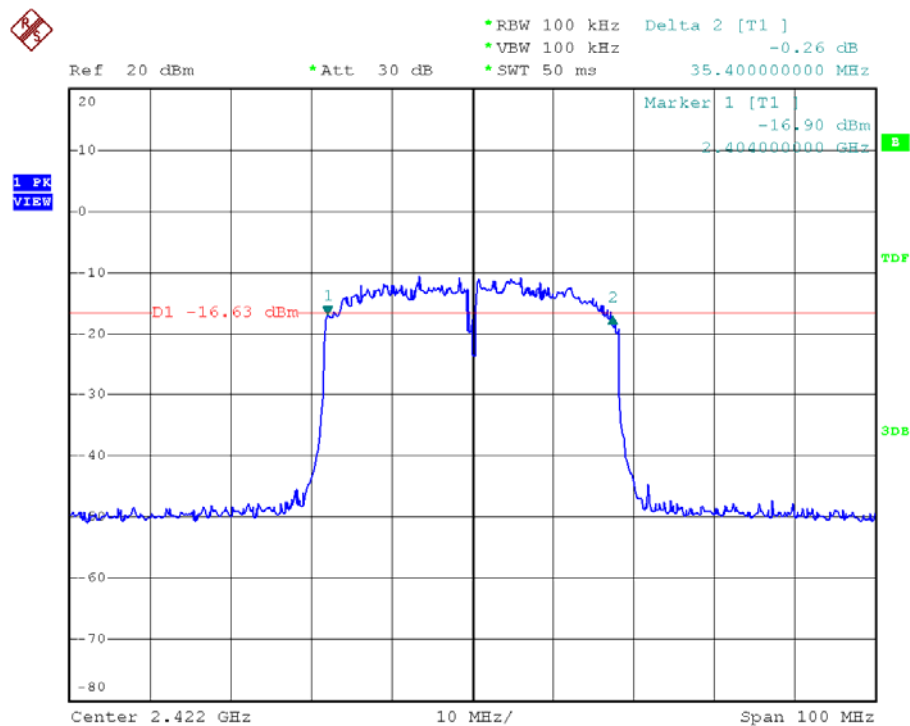




Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 11

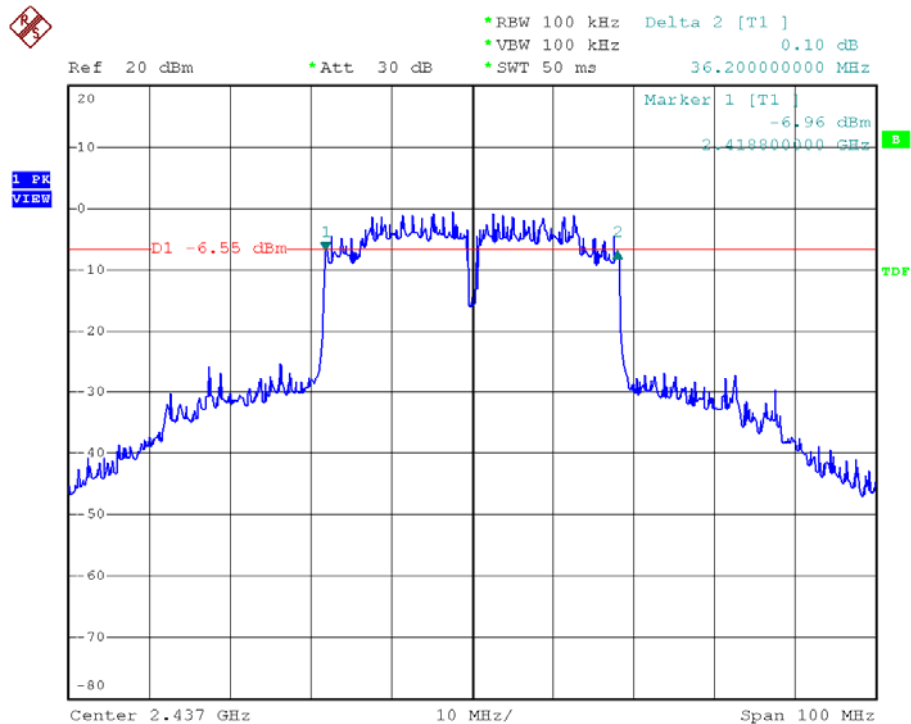


Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 03

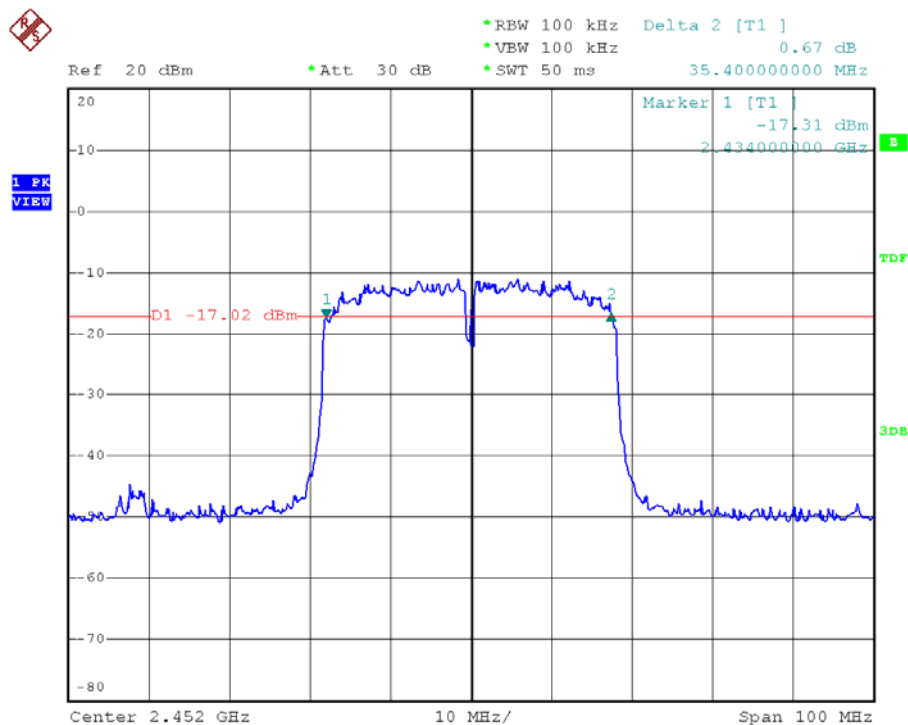




Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 06

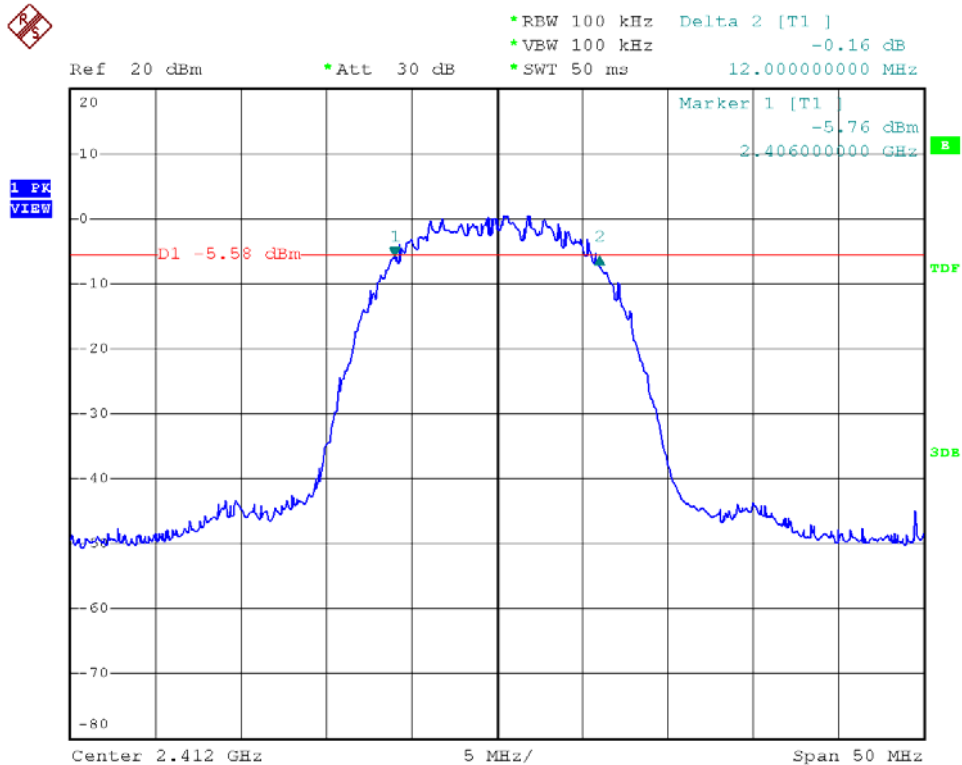


Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 09

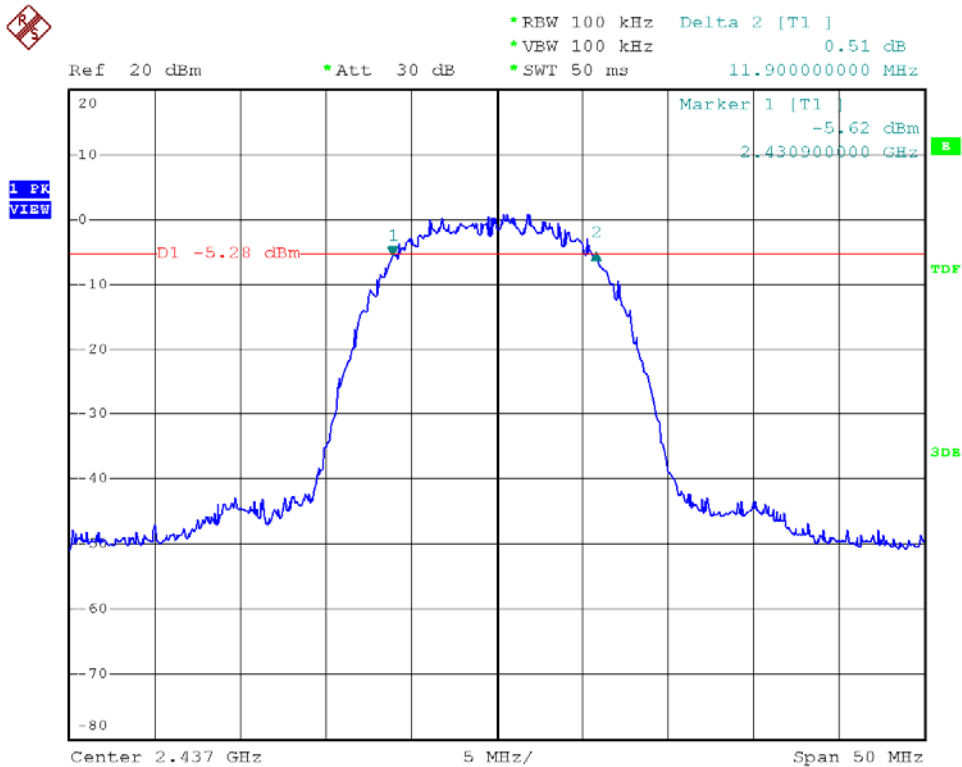




Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 01

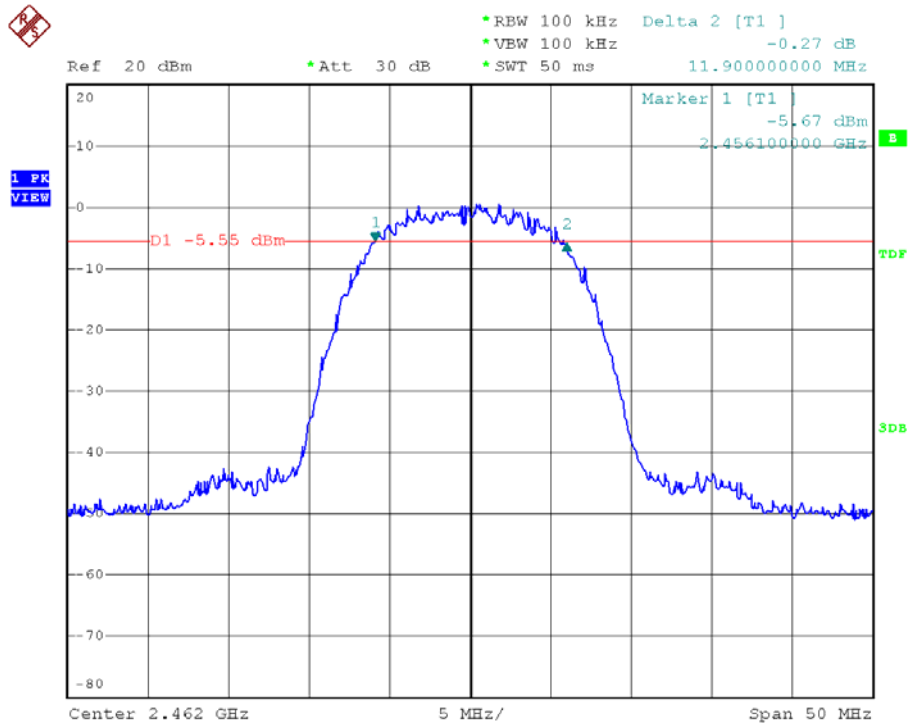


Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 06

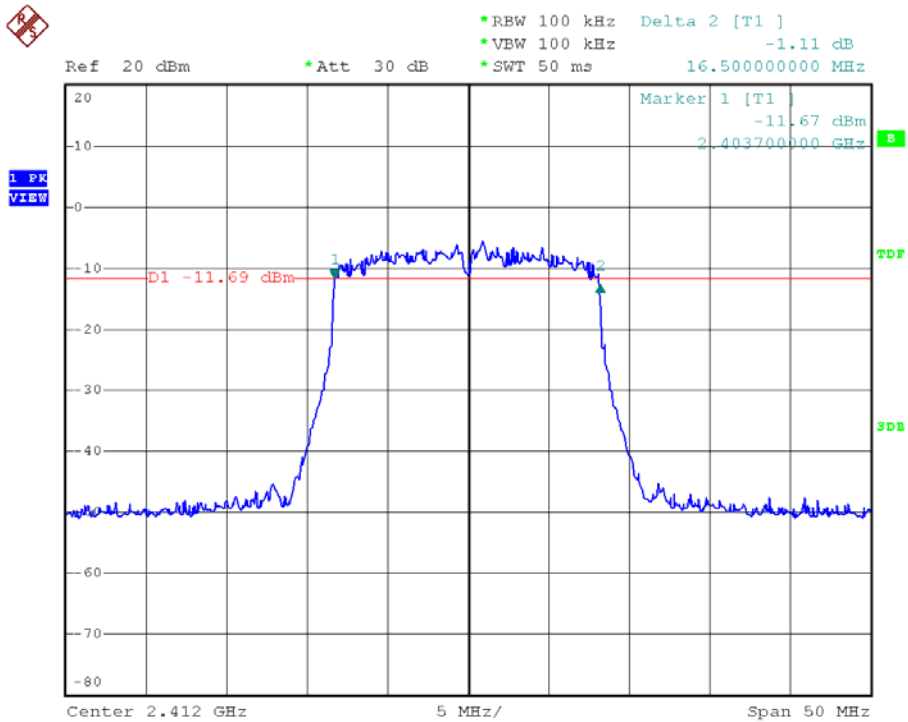




Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 11

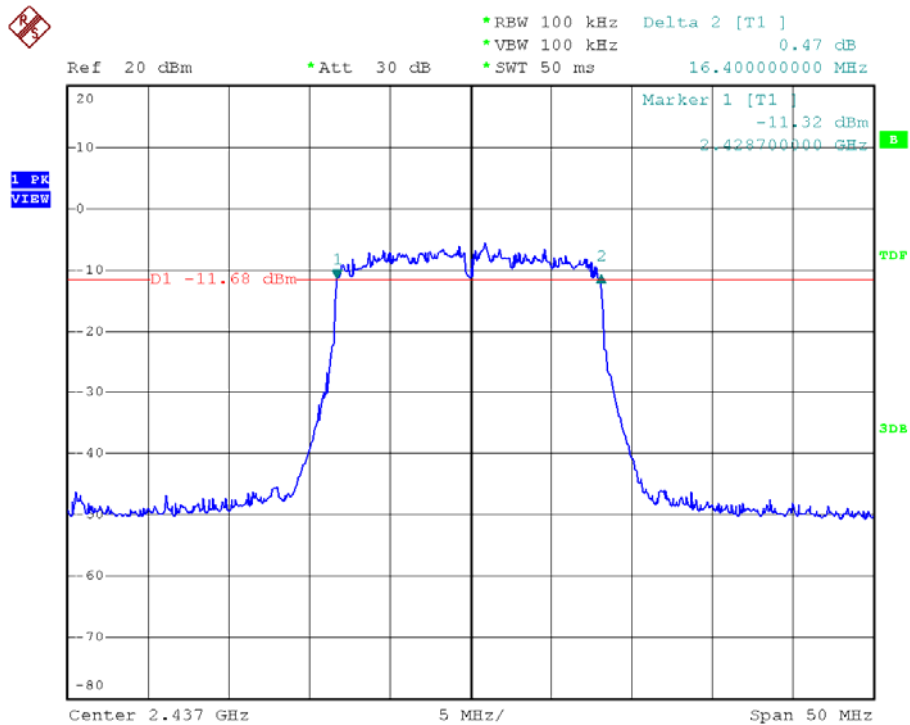


Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 01

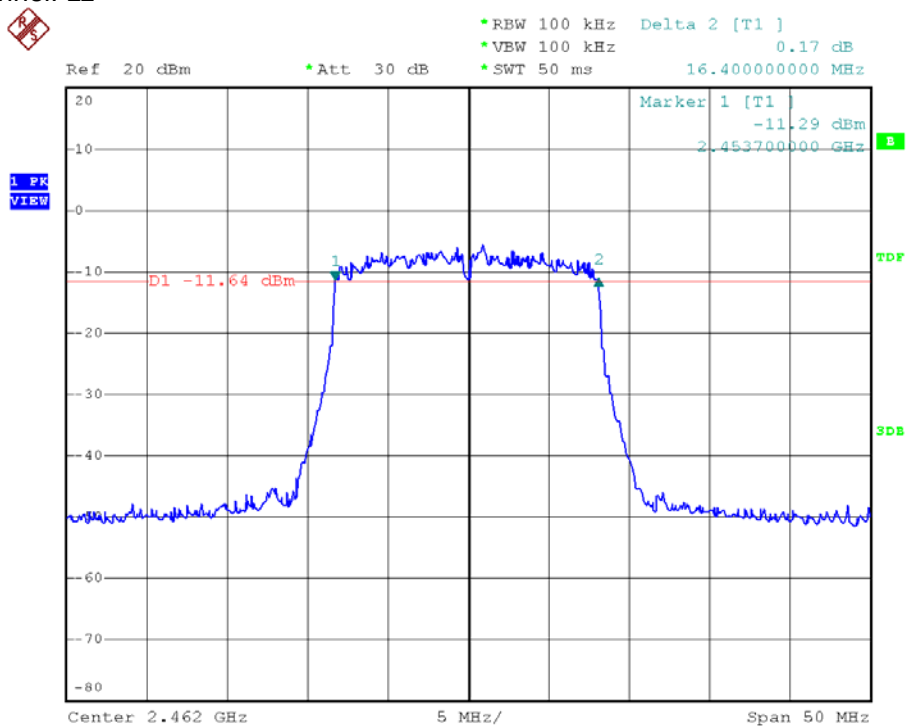




Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 06

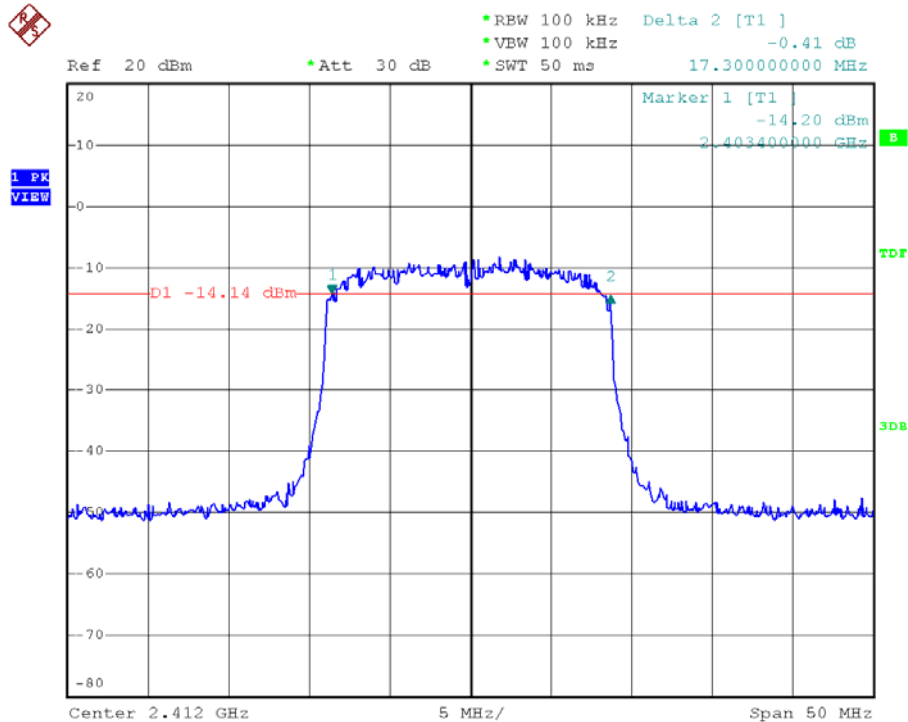


Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 11

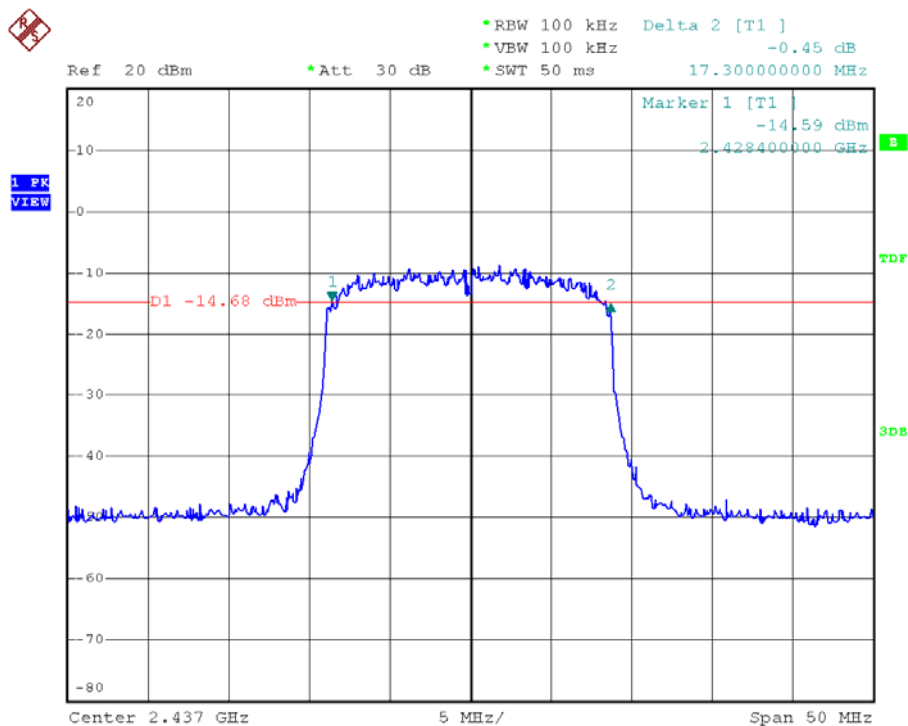




Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 01

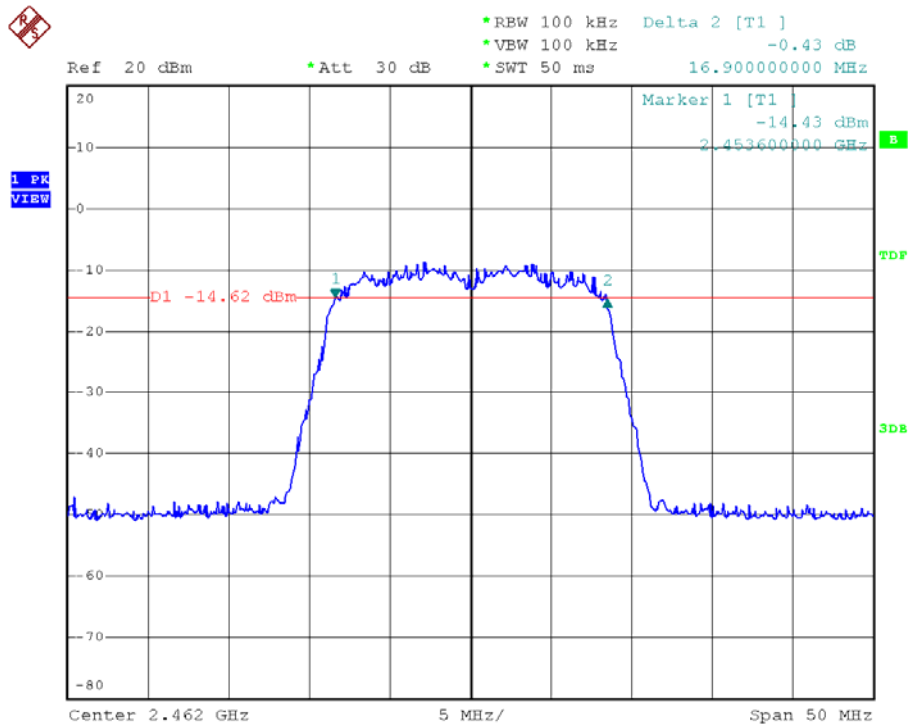


Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 06

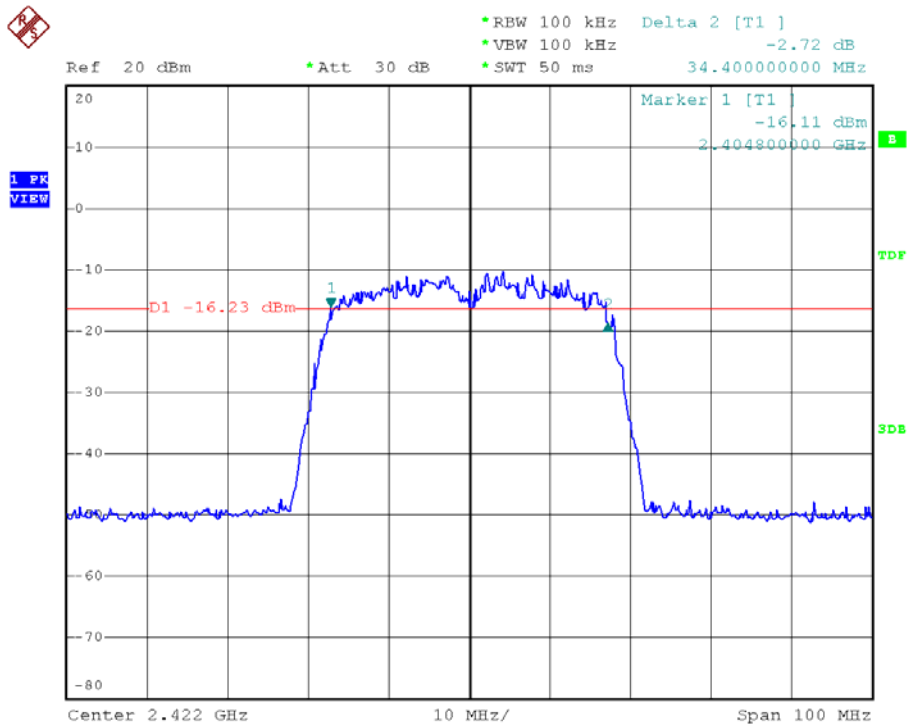




Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 11

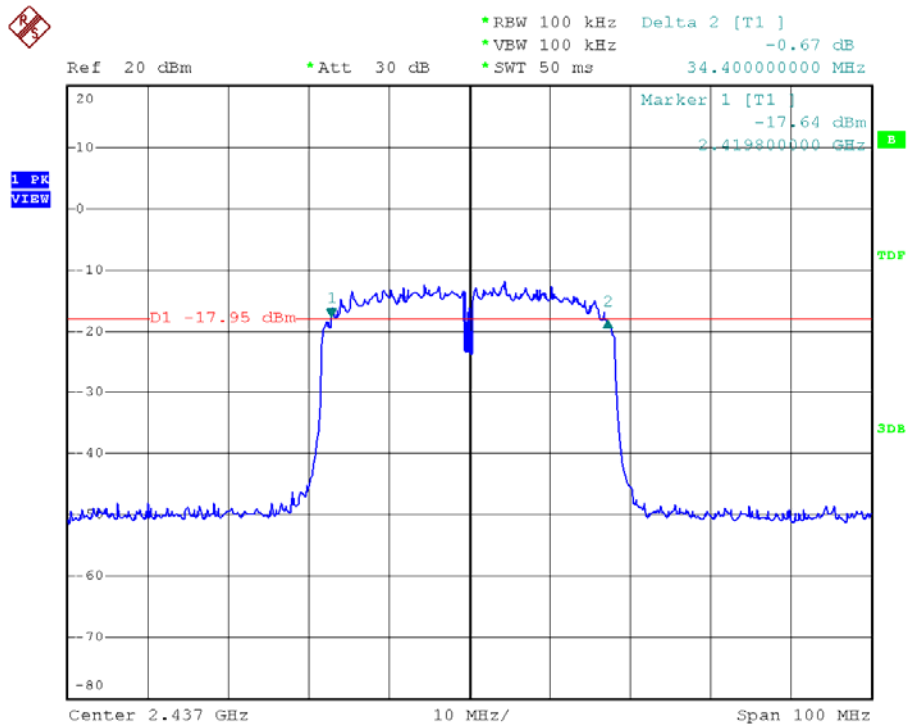


Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 03

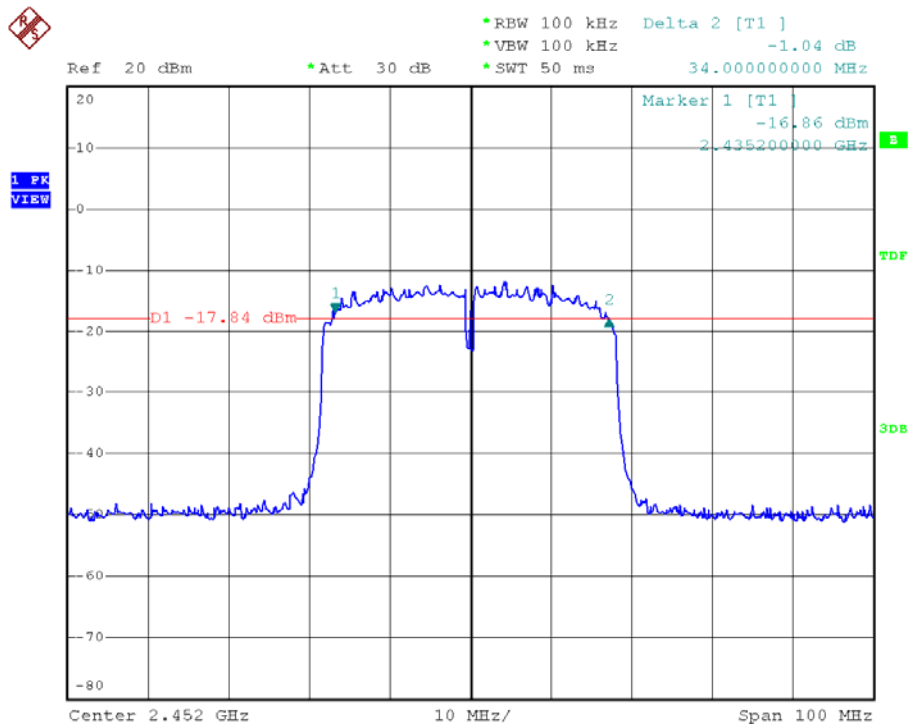




Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 06



Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 09





7. Maximum Peak Output Power

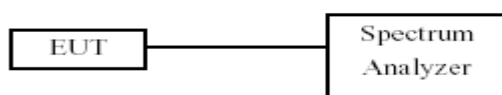
7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 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.

7.3 Test Setup Layout



7.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2011/05/05	2012/05/04

7.5 Test Result and Data

Test Date: Aug. 16, 2011

Temperature: 25

Atmospheric pressure: 1020 hPa

Humidity: 46%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)		Peak Power Output (mW)	
			ANT R	ANT L	ANT R	ANT L
802.11b (11Mbps)	01	2412	17.52	17.88	56.49	61.38
	06	2437	17.66	17.91	58.34	61.80
	11	2462	17.78	17.74	59.98	59.43
802.11g (54Mbps)	01	2412	14.73	14.68	29.72	29.38
	06	2437	14.69	14.66	29.44	29.24
	11	2462	14.56	14.88	28.58	30.76



Test Date: Aug. 16, 2011

Temperature: 25

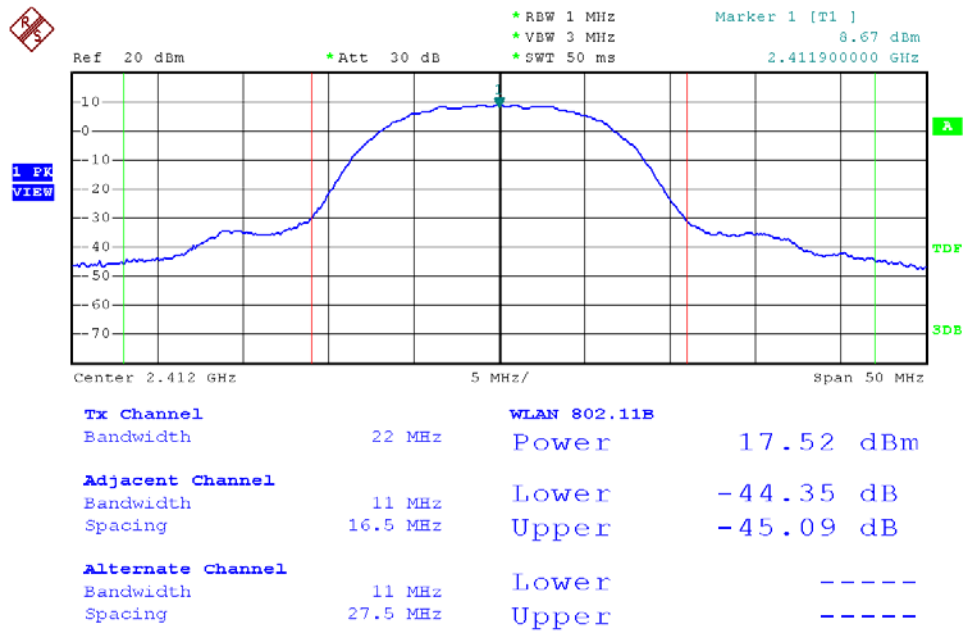
Atmospheric pressure: 1020 hPa

Humidity: 46%

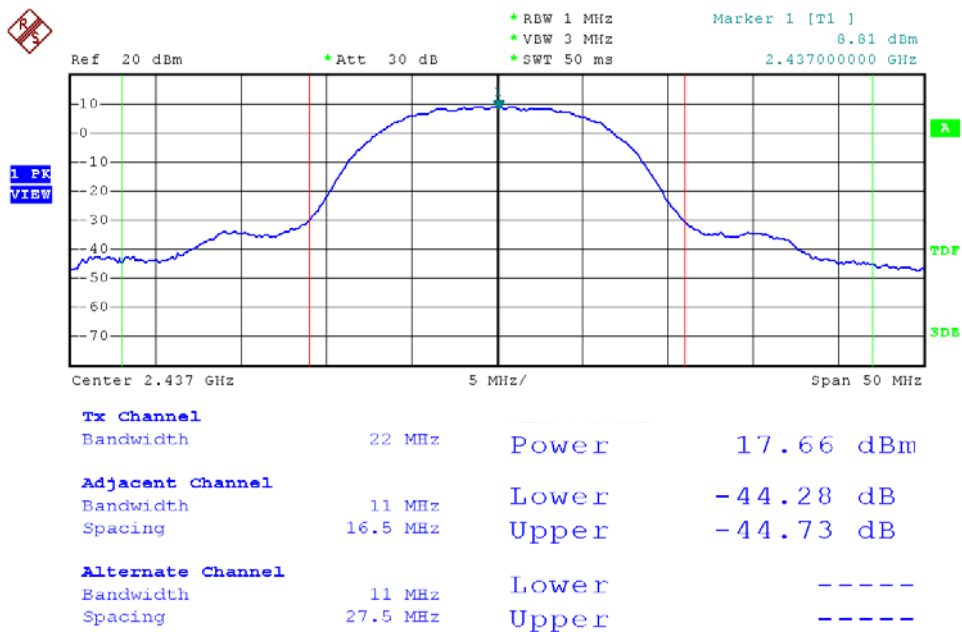
Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			ANT R	ANT L	R + L	R + L
802.11n HT20 (130Mbps)	01	2412	11.55	12.18	14.89	30.81
	06	2437	11.12	11.85	14.51	28.25
	11	2462	11.59	11.54	14.58	28.68
802.11n HT40 (270Mbps)	03	2422	11.69	11.79	14.75	29.86
	06	2437	11.22	11.08	14.16	26.07
	09	2452	11.30	11.35	14.34	27.14



Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 01

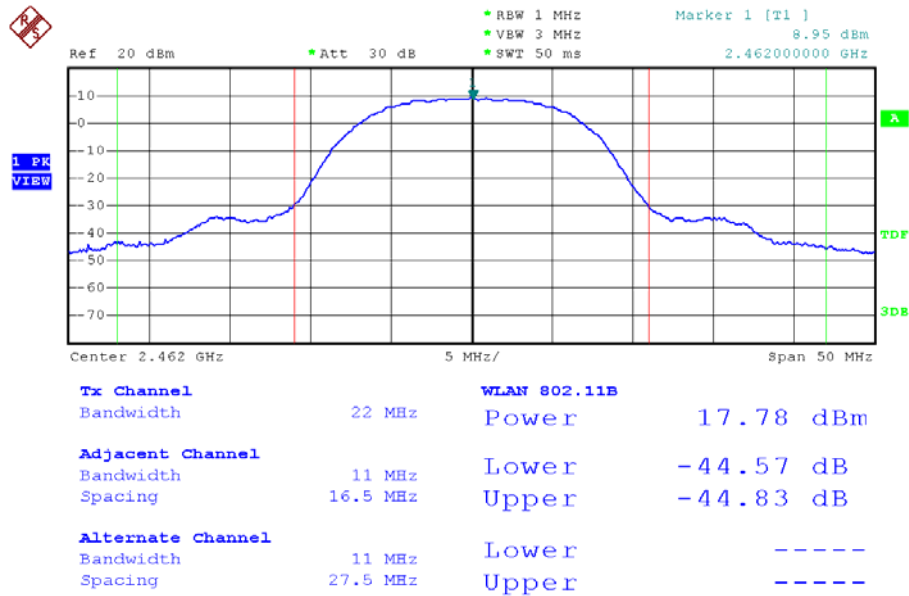


Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 06

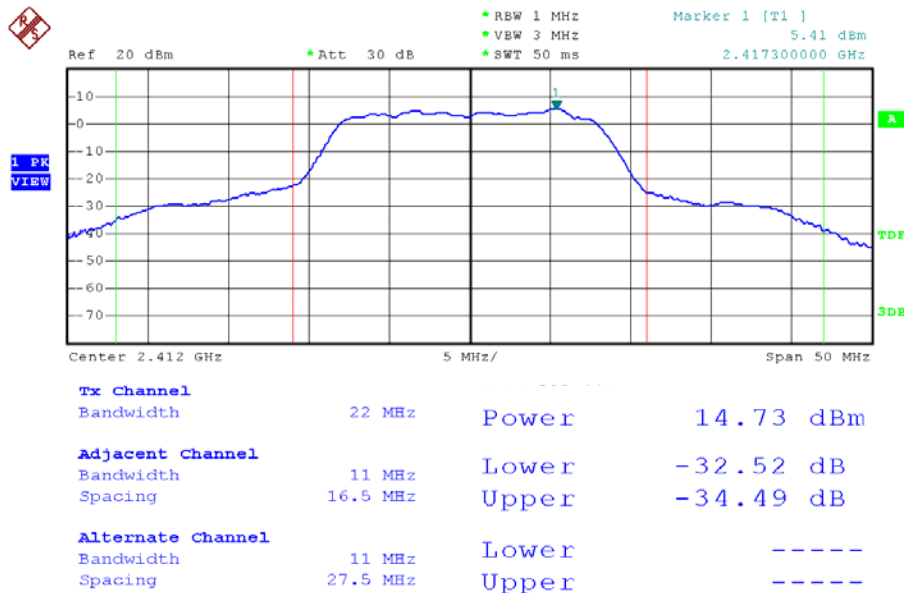




Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 11

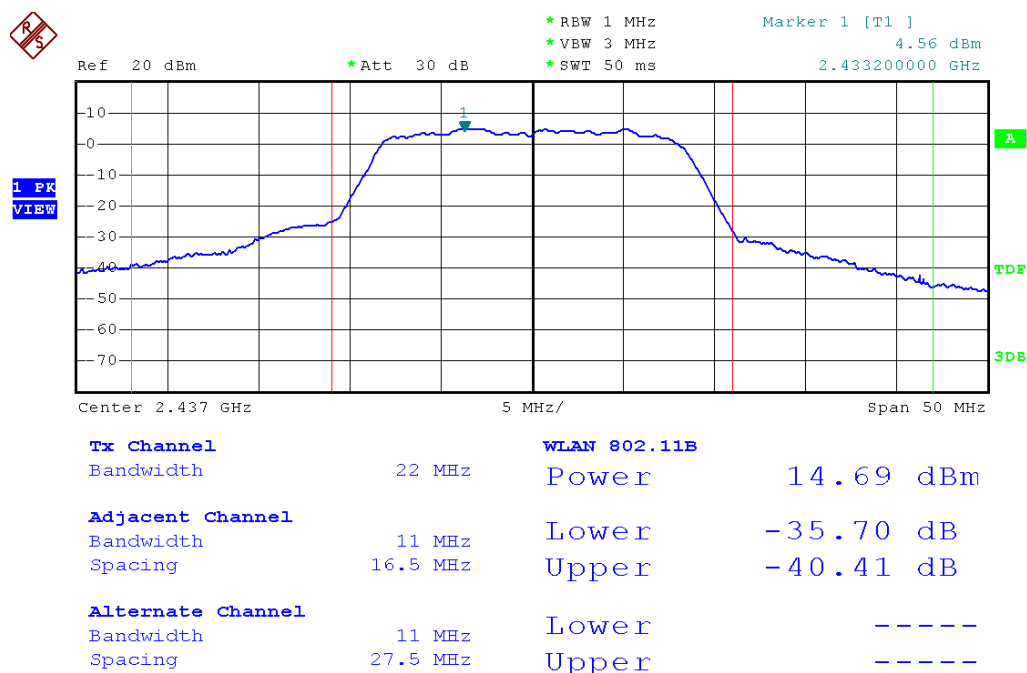


Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 01

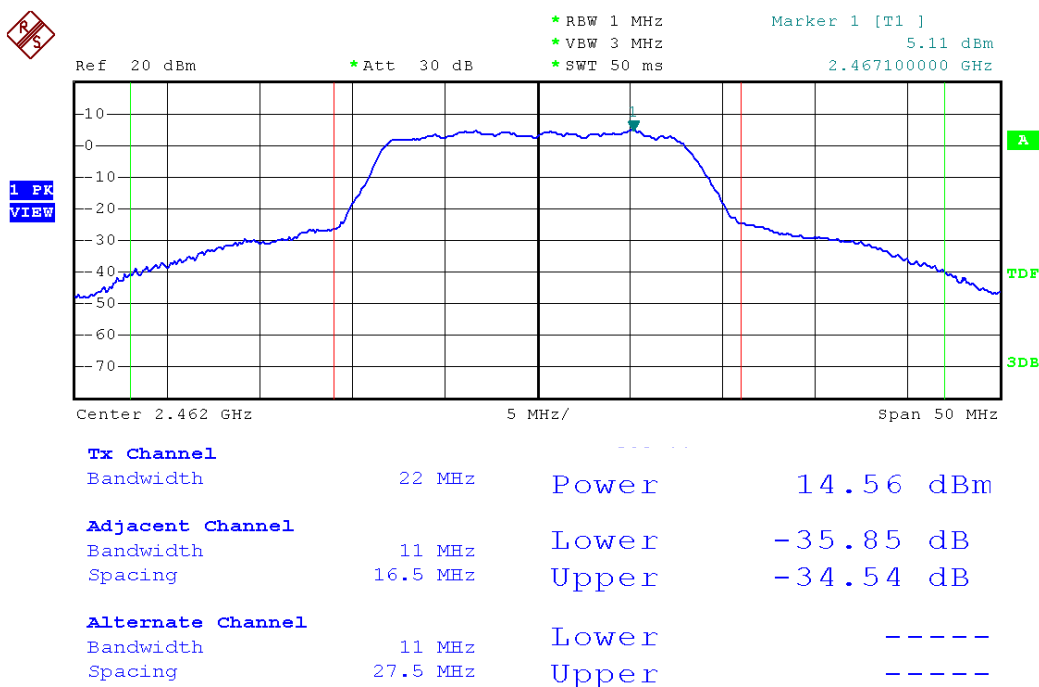




Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 06

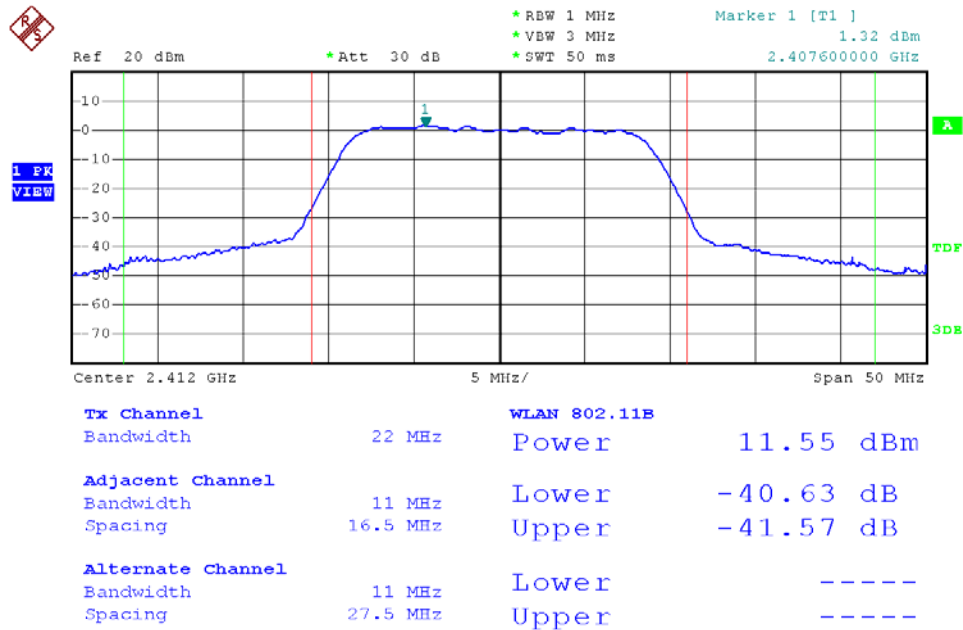


Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 11

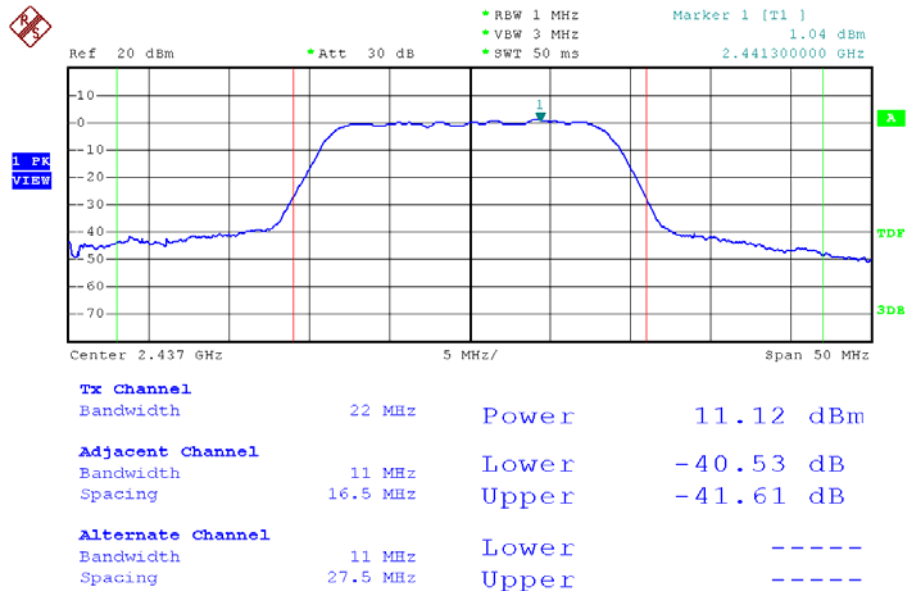




Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 01

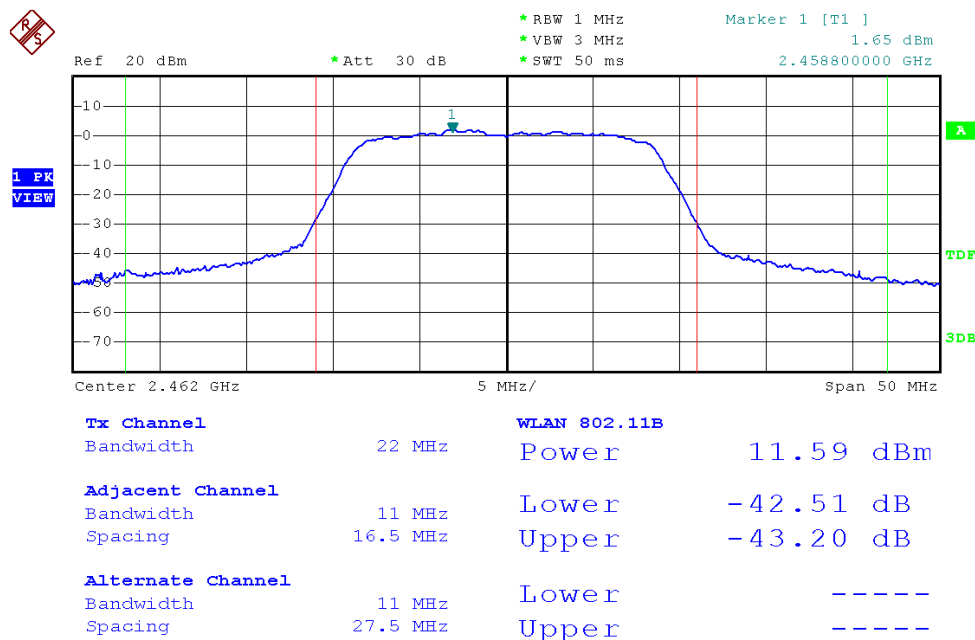


Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 06

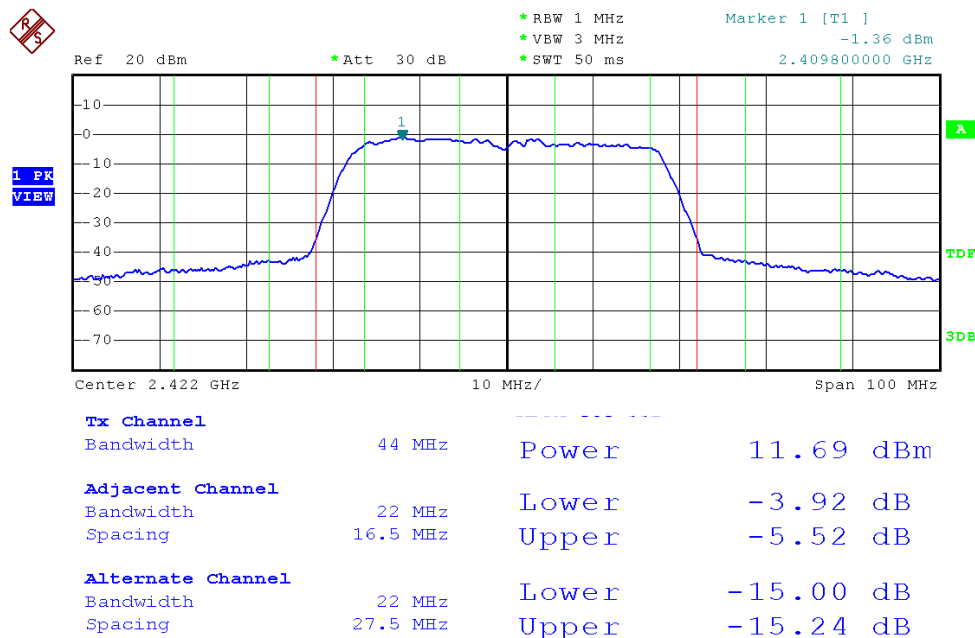




Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 11

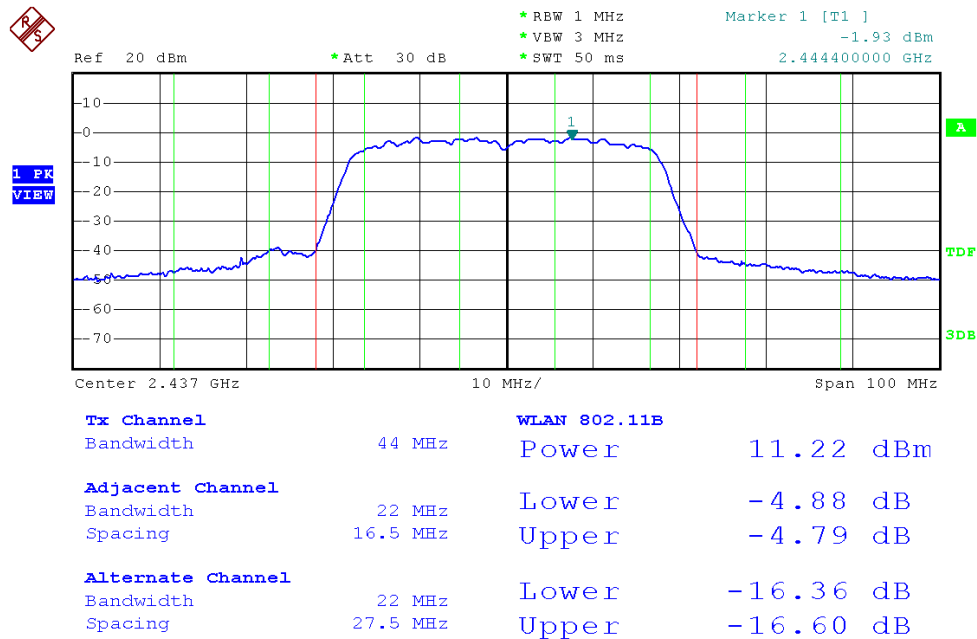


Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 03

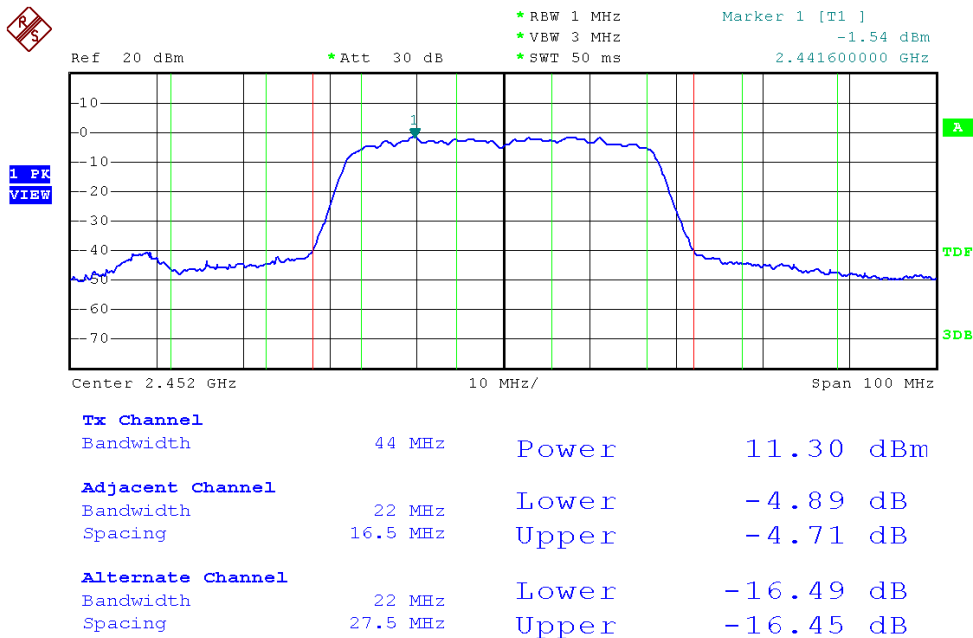




Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 06

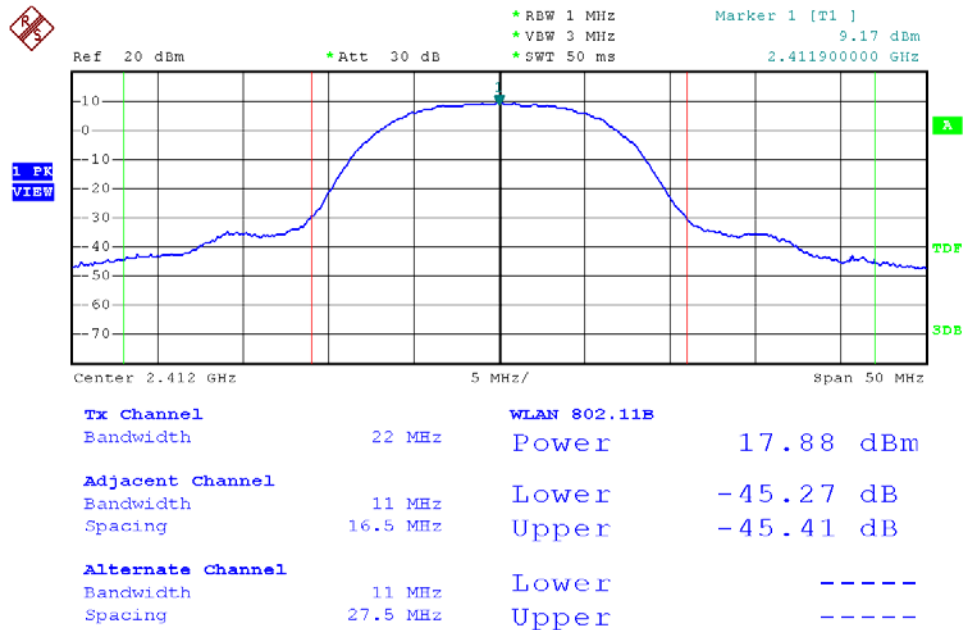


Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 09

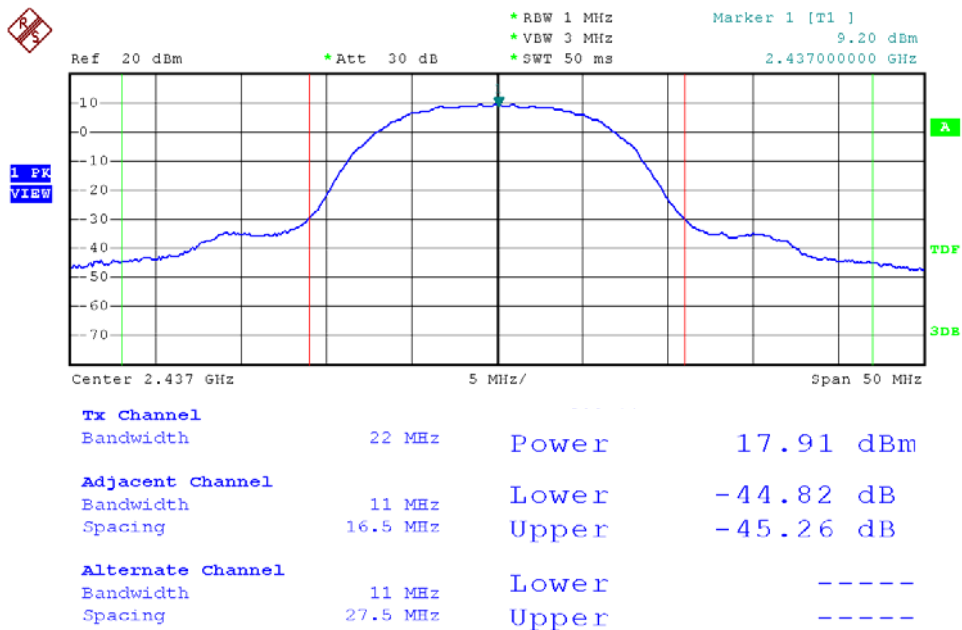




Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 01

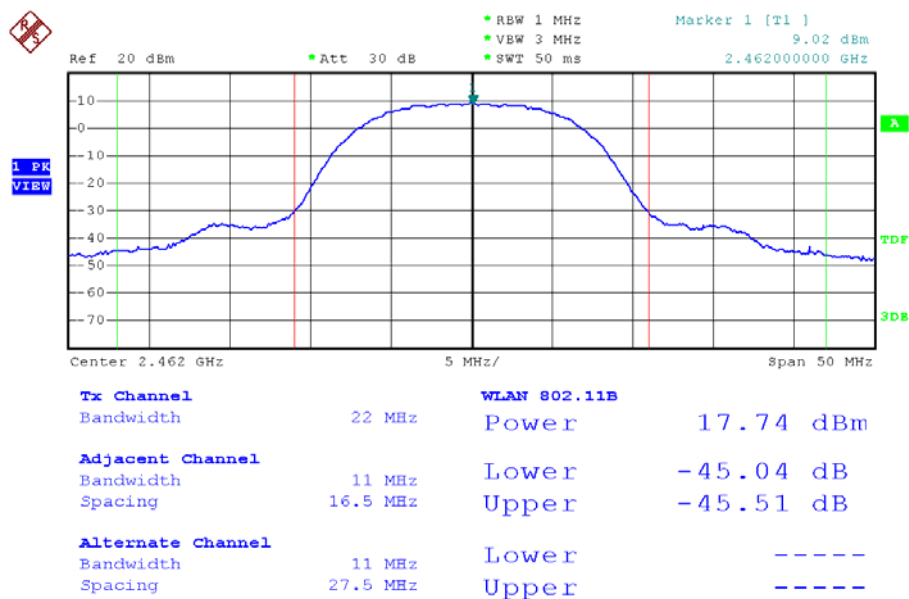


Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 06

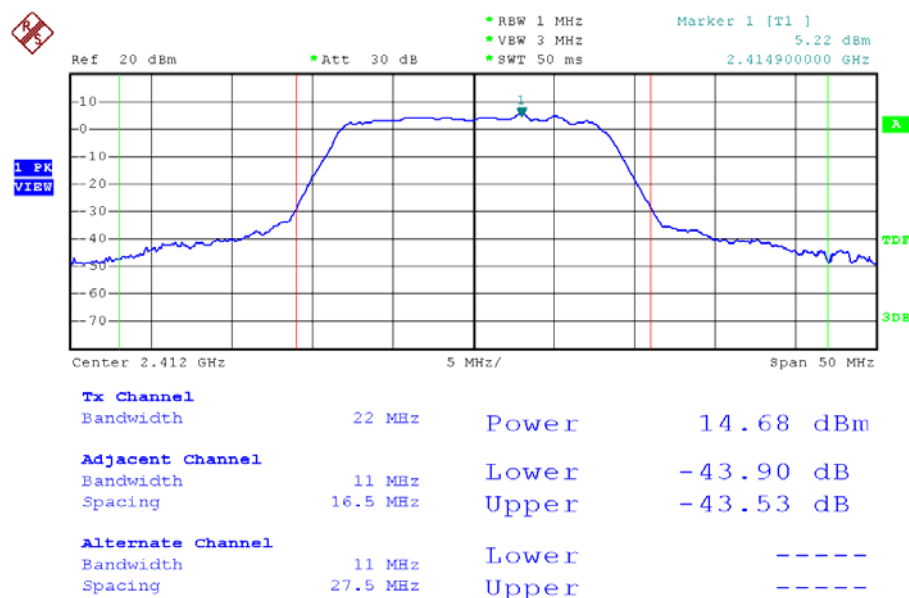




Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 11

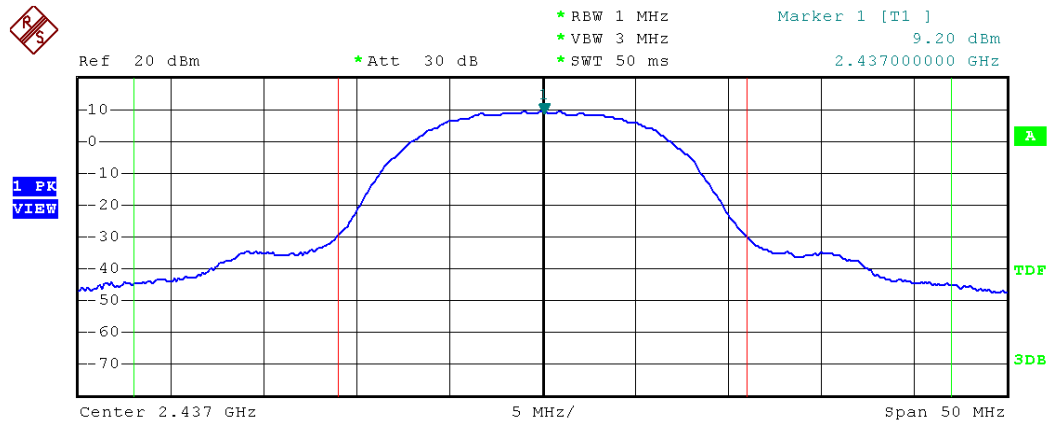


Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 01



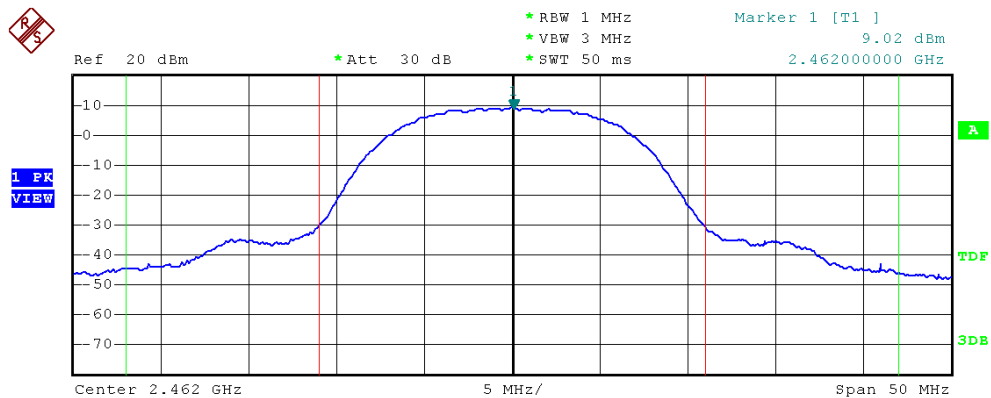


Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 06



Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	17.91 dBm
Adjacent Channel		Lower	-44.82 dB
Bandwidth	11 MHz	Upper	-45.26 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	----
Bandwidth	11 MHz	Upper	----
Spacing	27.5 MHz		

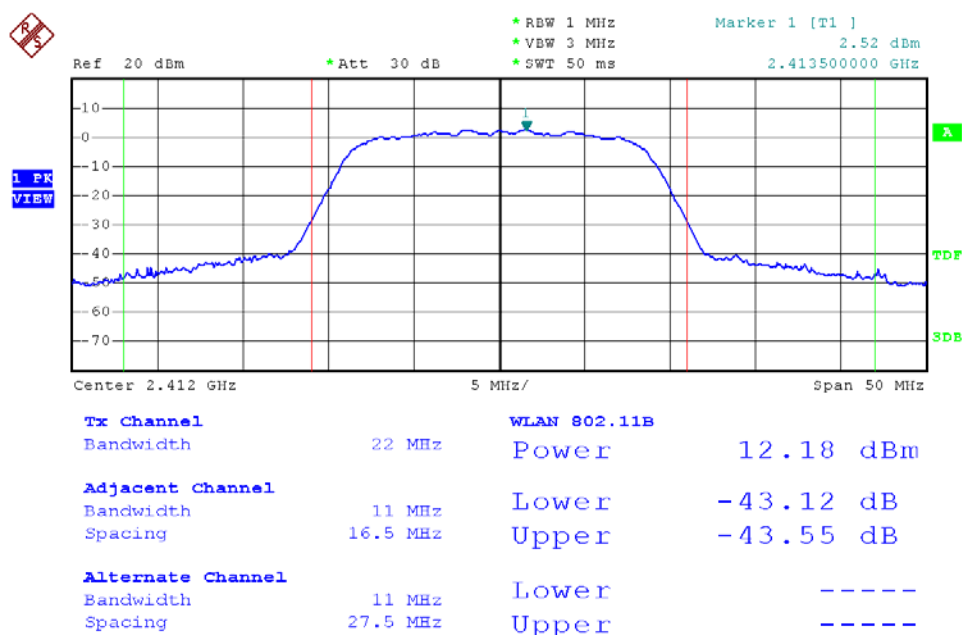
Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 11



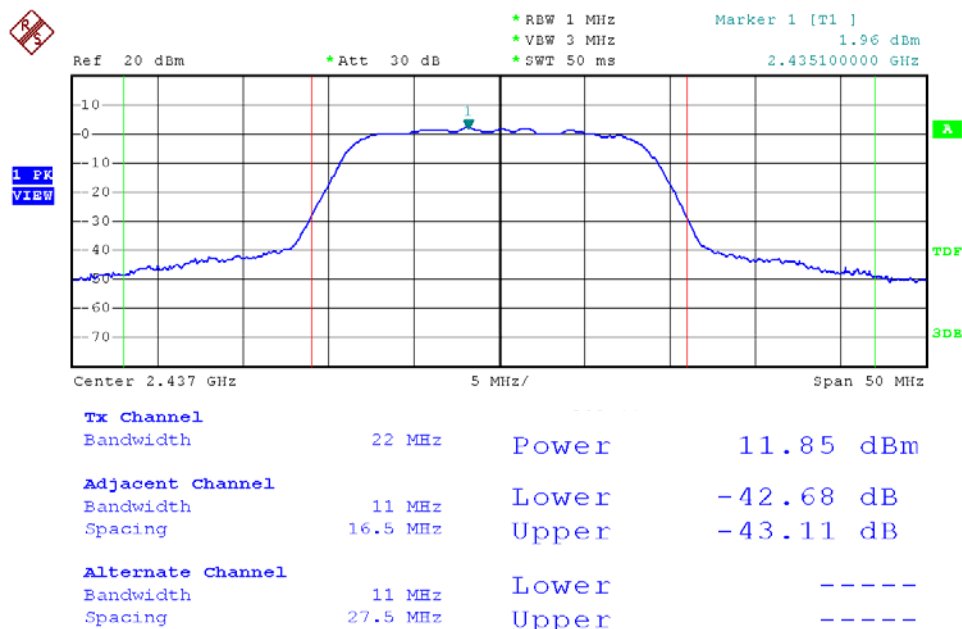
Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	17.74 dBm
Adjacent Channel		Lower	-45.04 dB
Bandwidth	11 MHz	Upper	-45.51 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	----
Bandwidth	11 MHz	Upper	----
Spacing	27.5 MHz		



Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 01

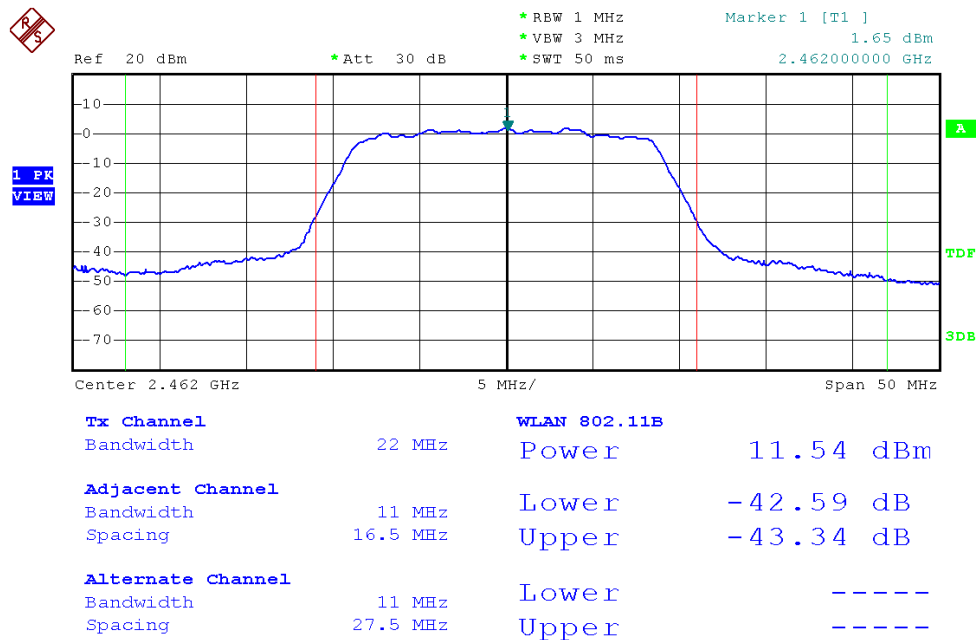


Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 06

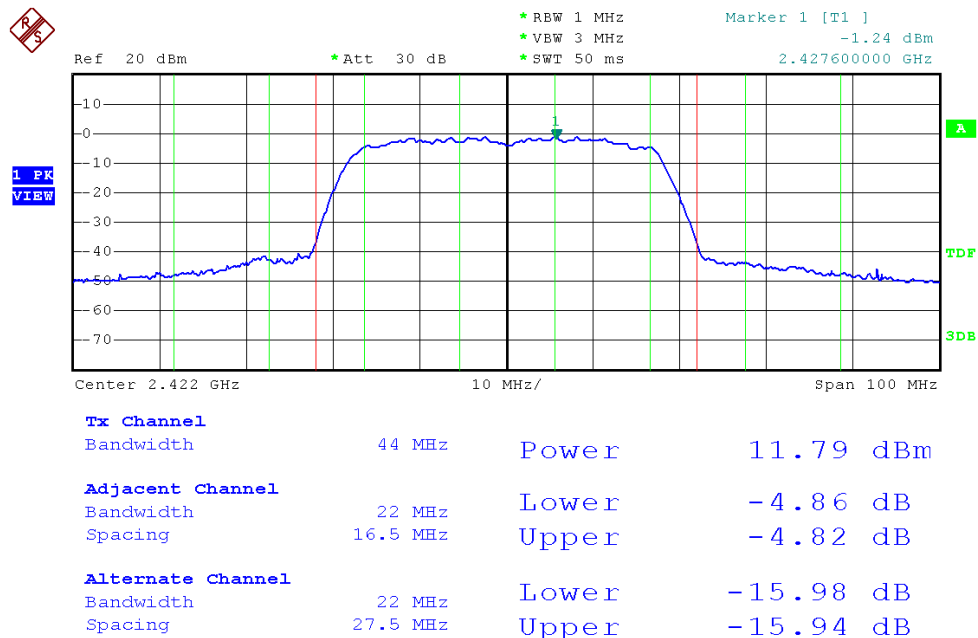




Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 11

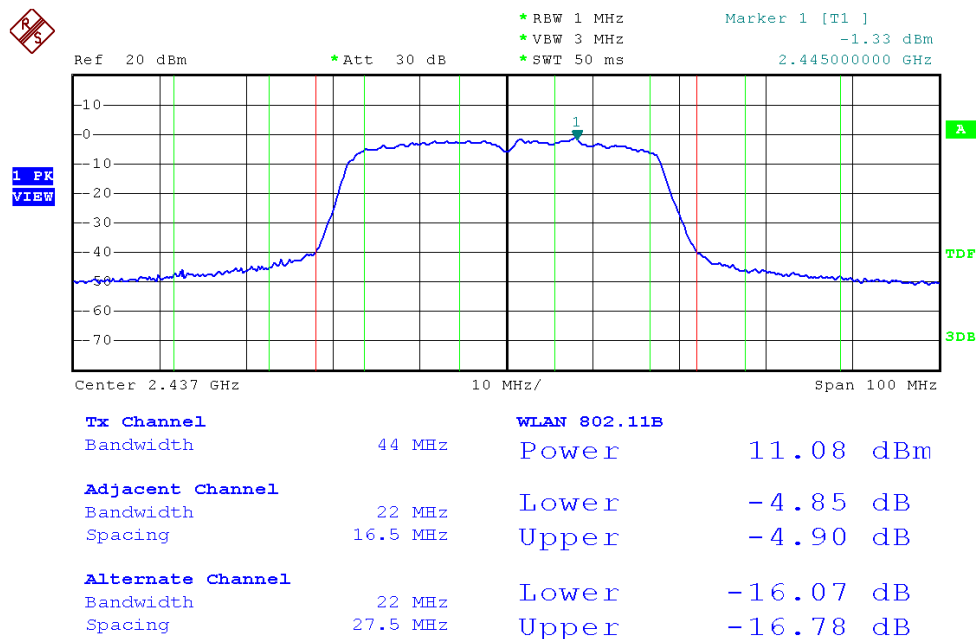


Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 03

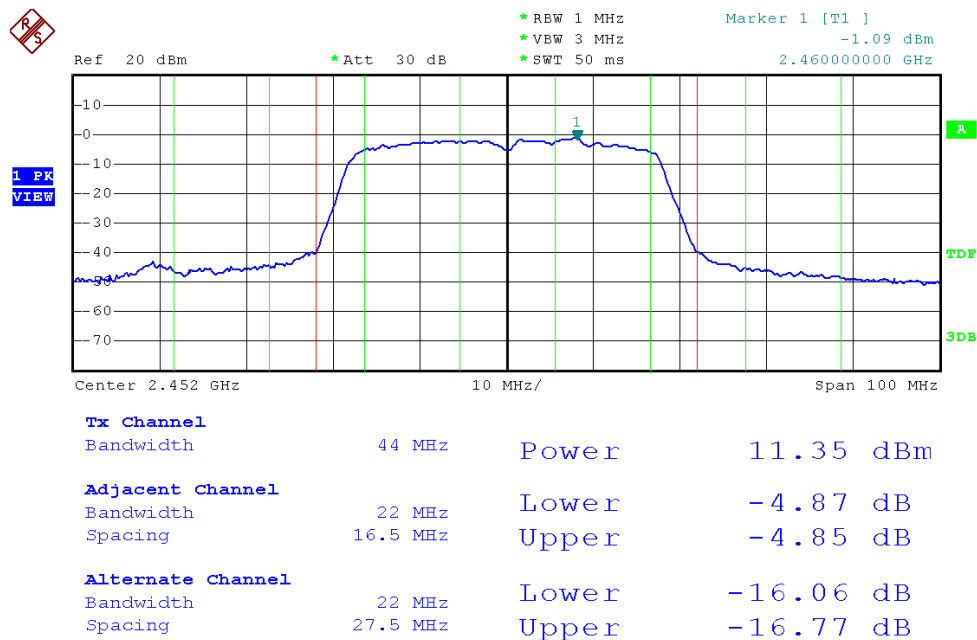




Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 06



Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 09





8. Band Edges Measurement

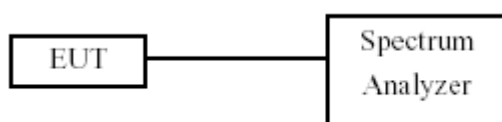
8.1 Test Limit

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

8.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- The band edges was measured and recorded.

8.3 Test Setup Layout



8.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2011/05/05	2012/05/04

8.5 Test Result and Data

Test Date: Aug. 17, 2011

Temperature: 25

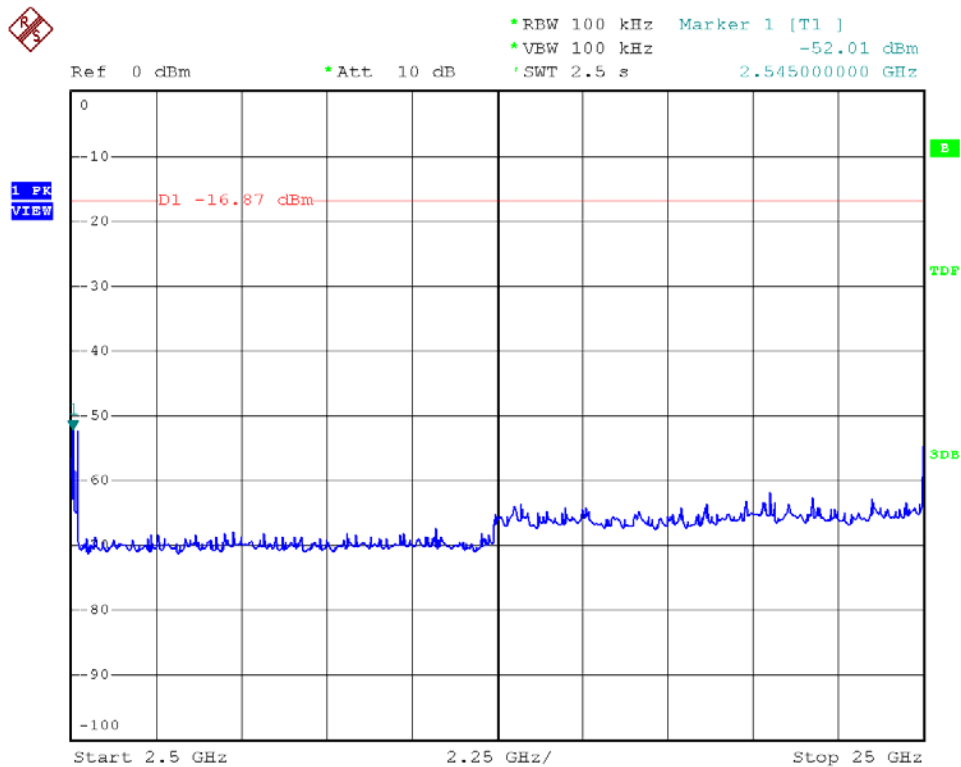
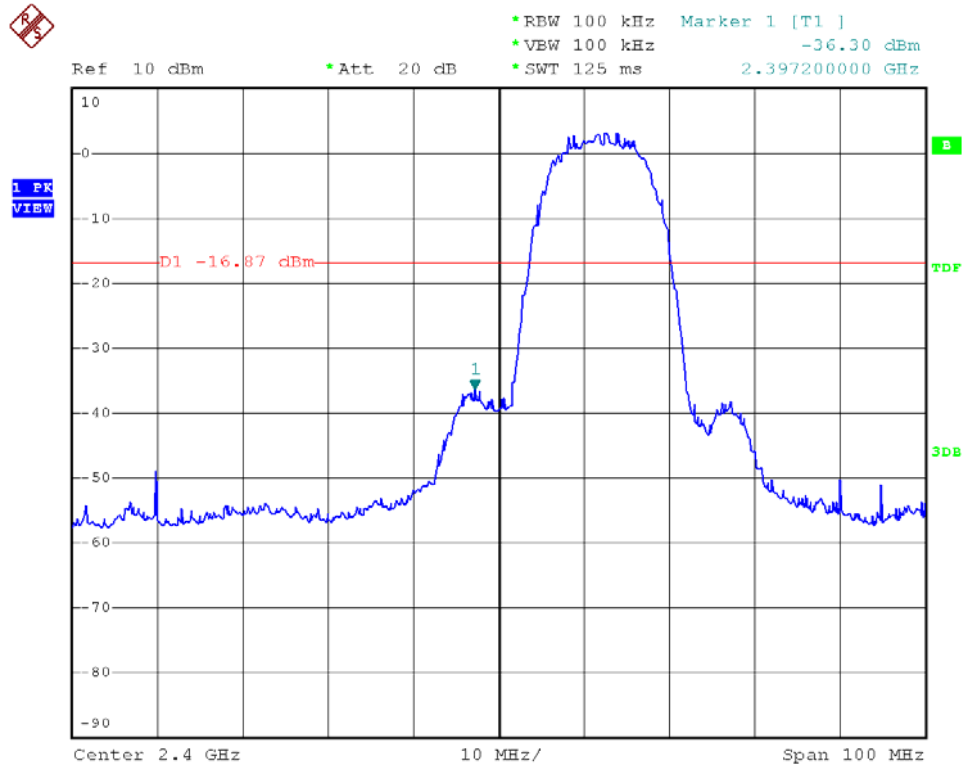
Atmospheric pressure: 1020 hPa

Humidity: 46 %

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			ANT R	ANT L	ANT R	ANT L
802.11b (11Mbps)	01	2412	2397.2	2396.8	-36.30	-37.79
	11	2462	2860.0	2860.0	-47.25	-48.33
802.11g (54Mbps)	01	2412	2400.0	2397.0	-43.69	-32.65
	11	2462	2520.1	2483.9	-53.24	-49.70
802.11n HT20 (130Mbps)	01	2412	2400.0	2399.8	-45.04	-23.41
	11	2462	2520.1	2483.7	-51.57	-46.85
802.11n HT40 (270Mbps)	03	2422	2393.6	2395.2	-41.83	-33.62
	09	2452	2485.7	2484.1	-51.61	-42.82

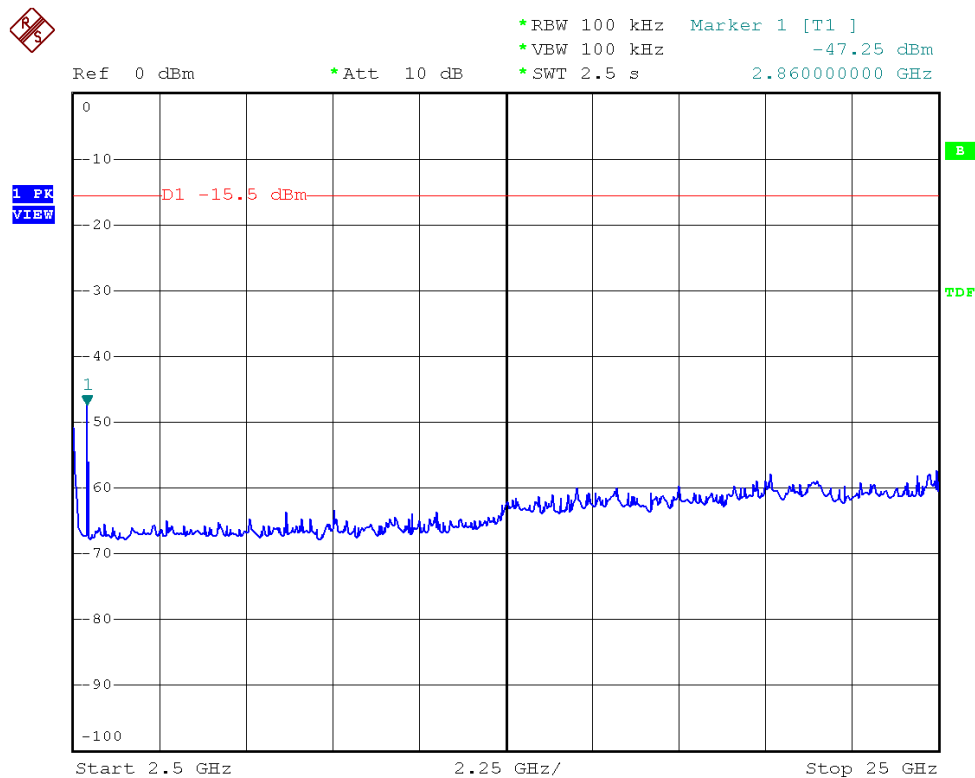
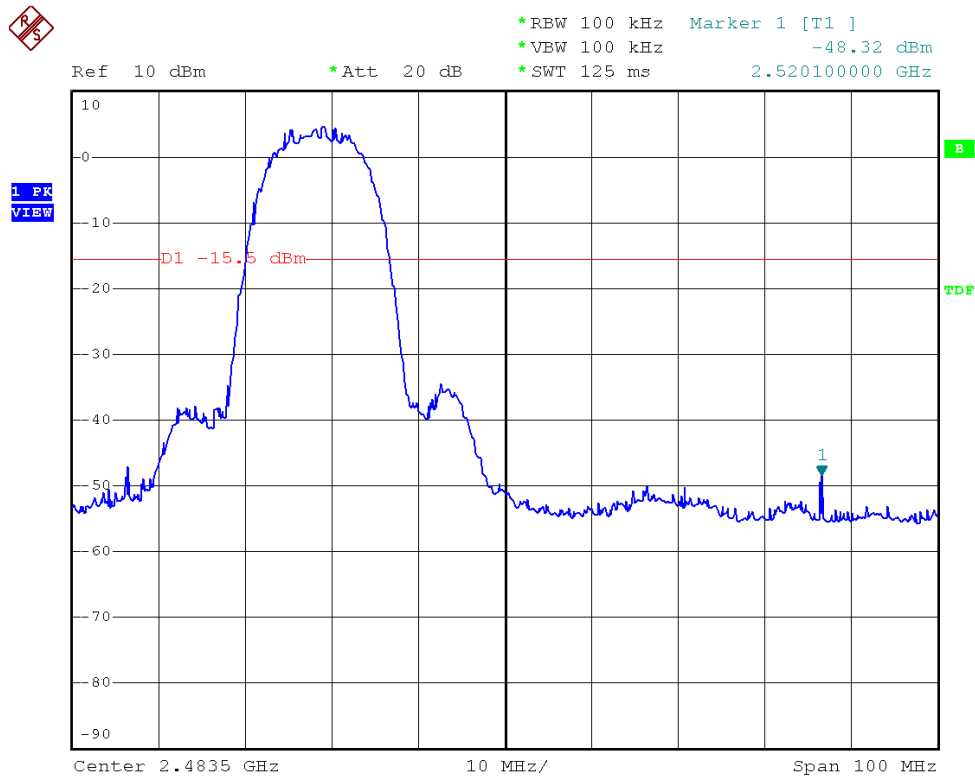


Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 01



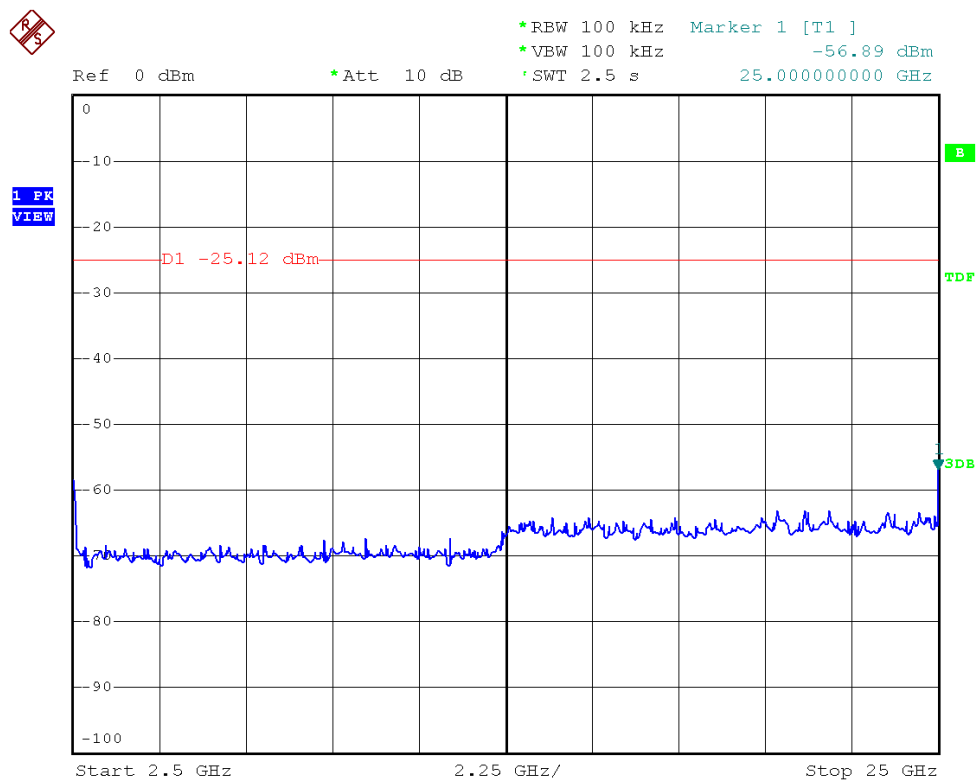
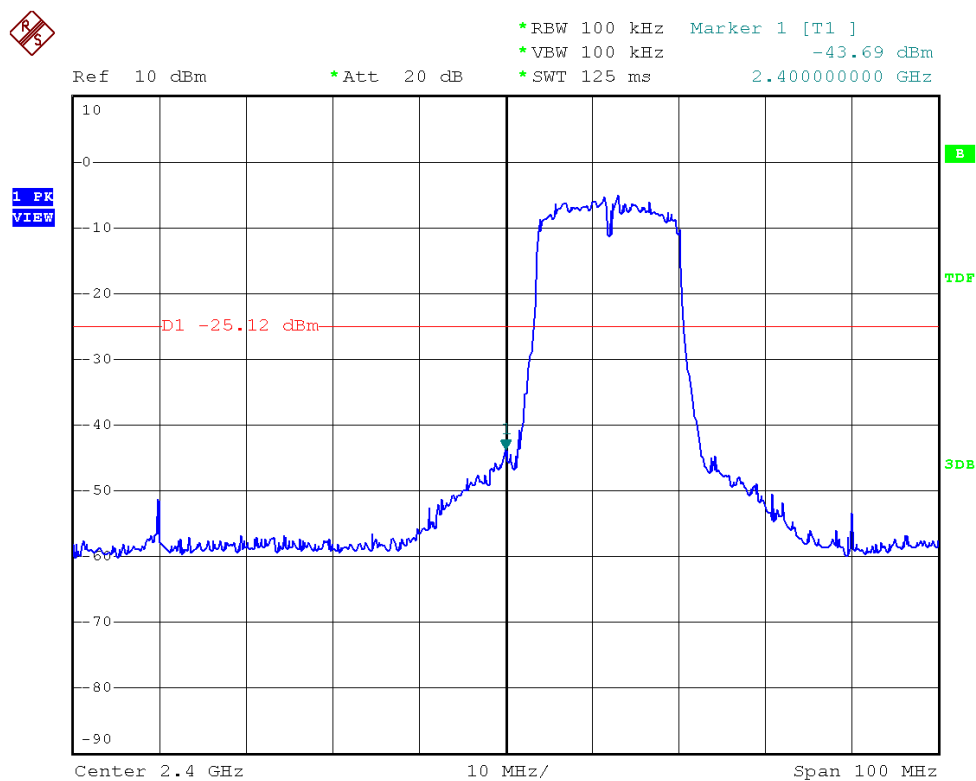


Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 11



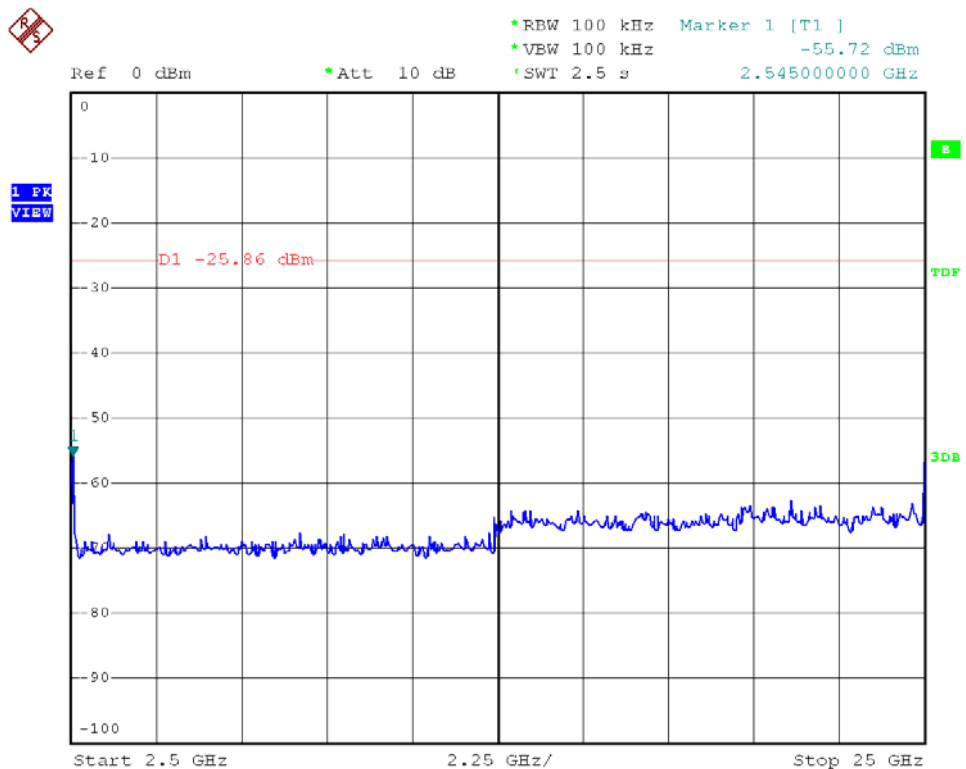
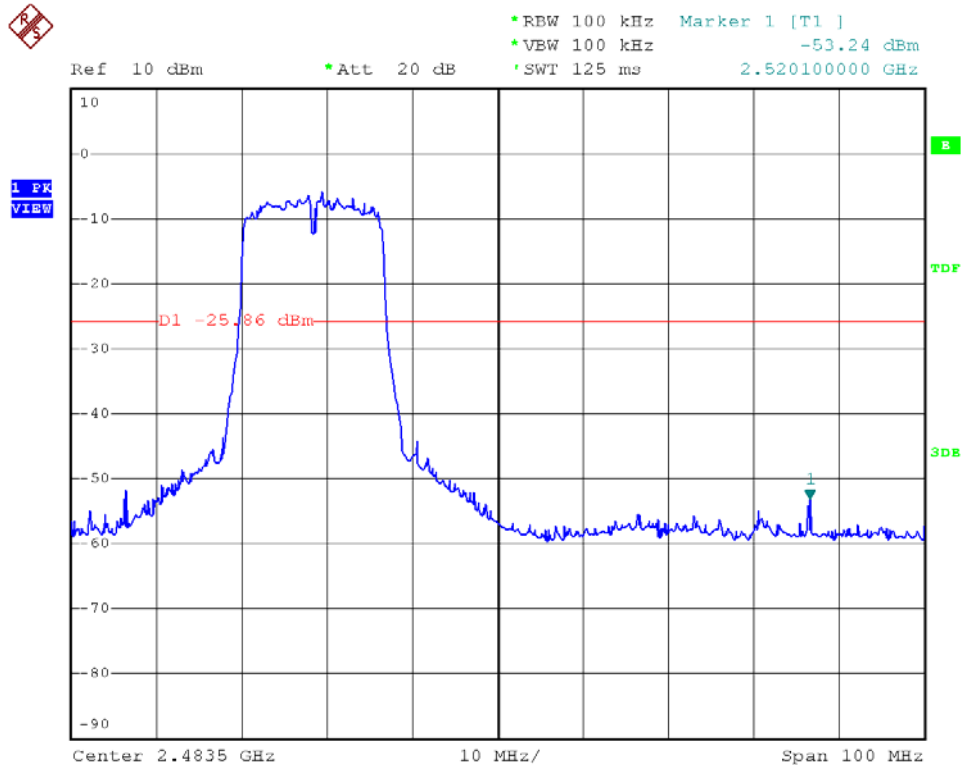


Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 01



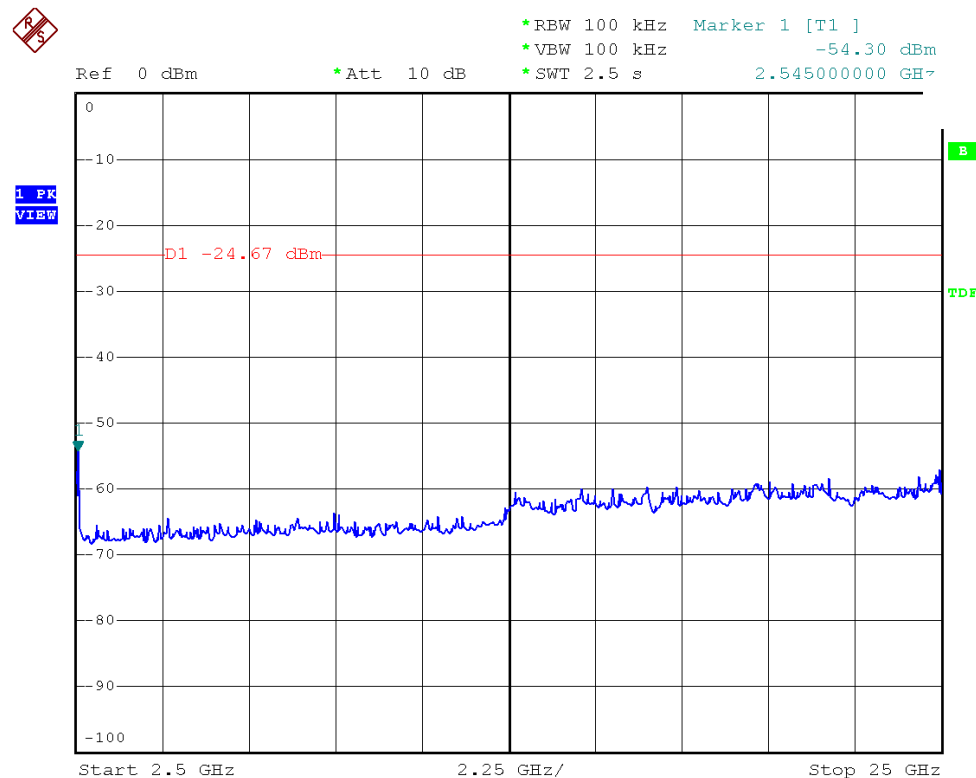
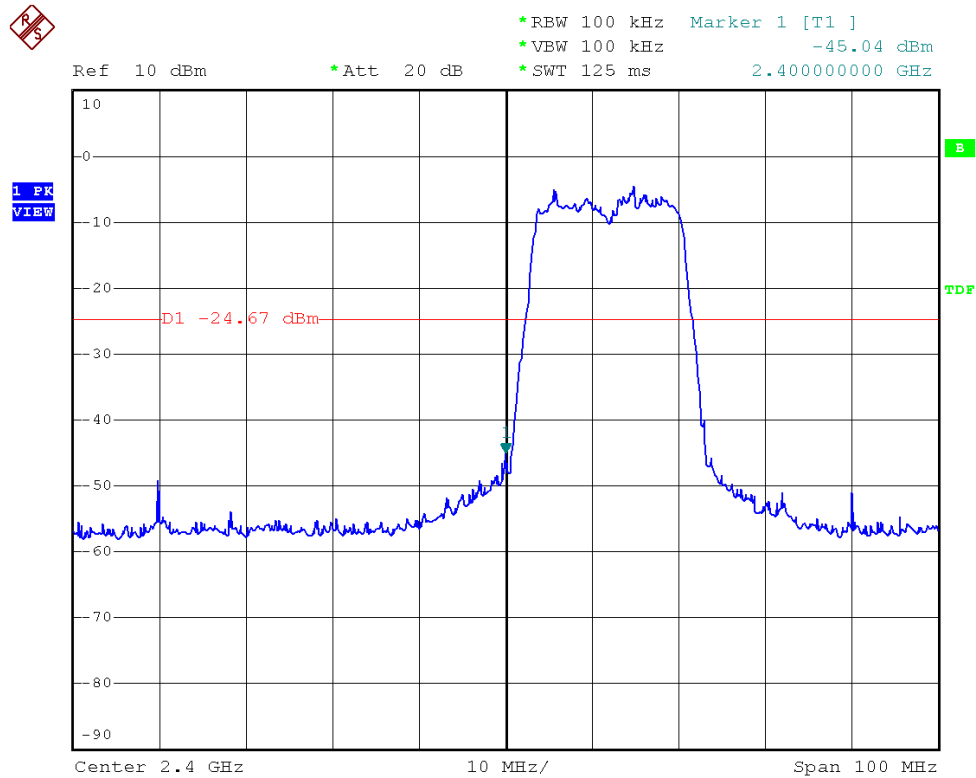


Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 11



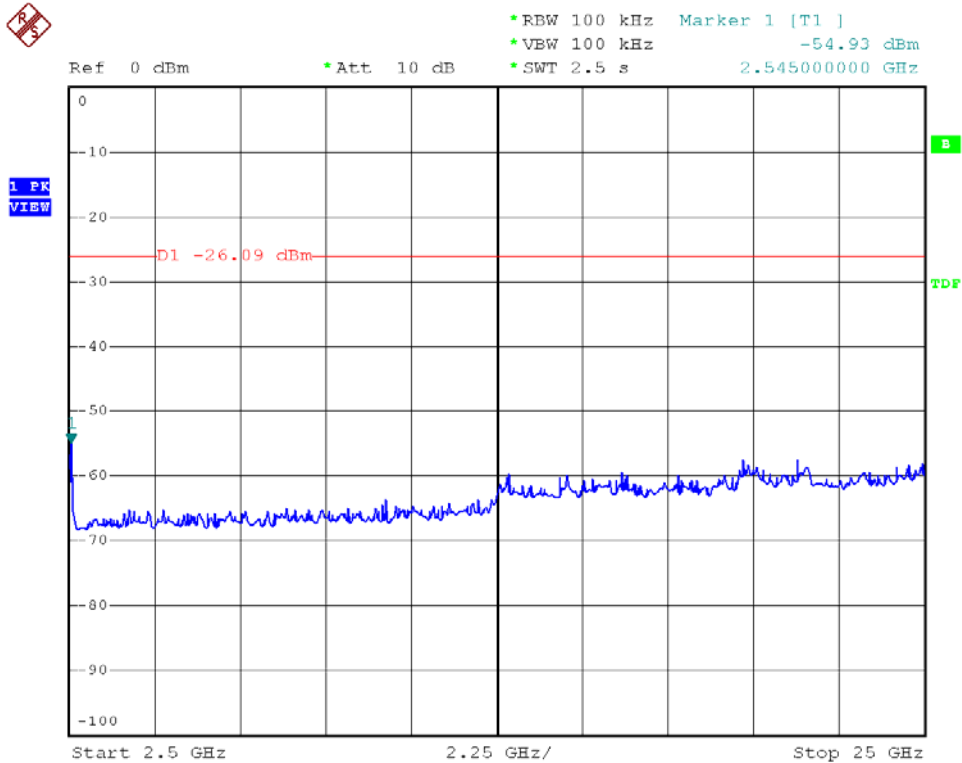
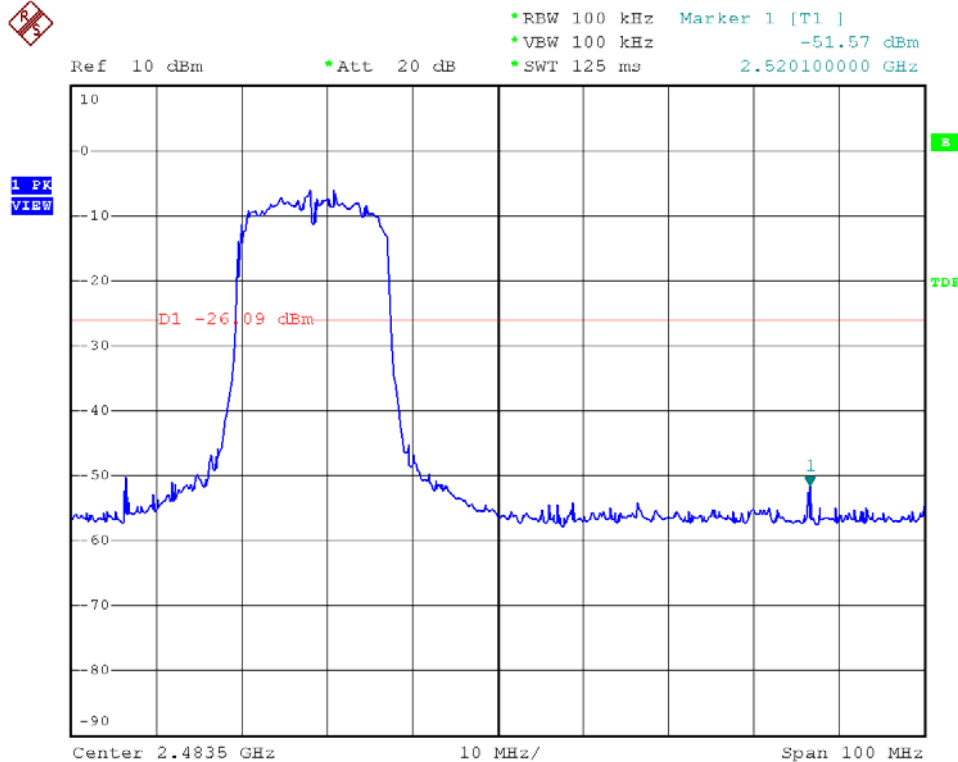


Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 01



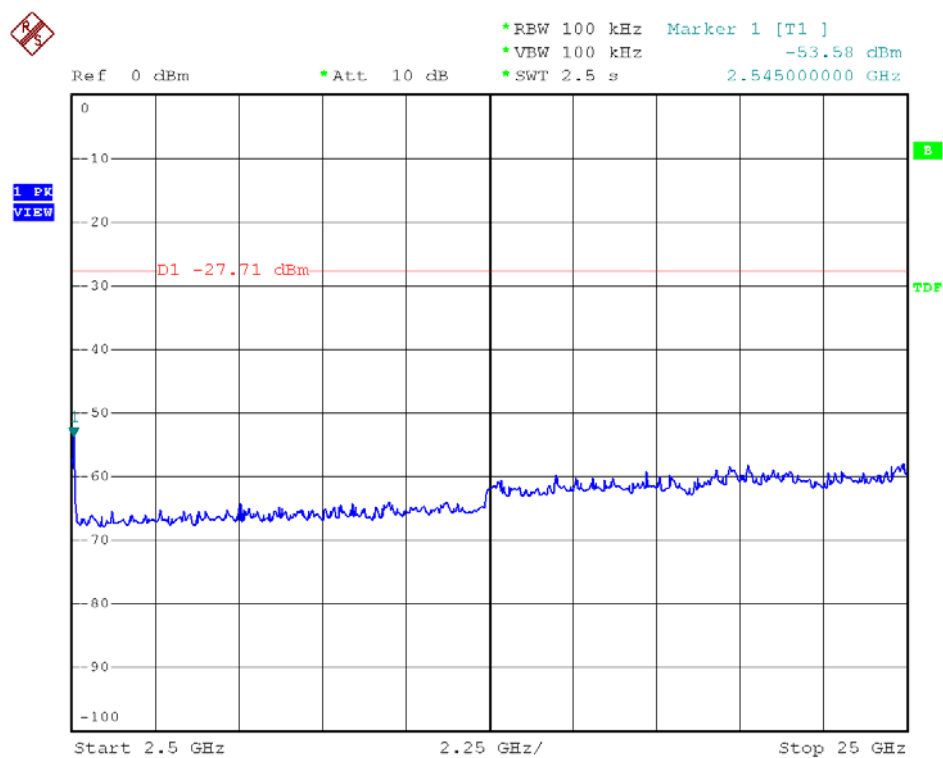
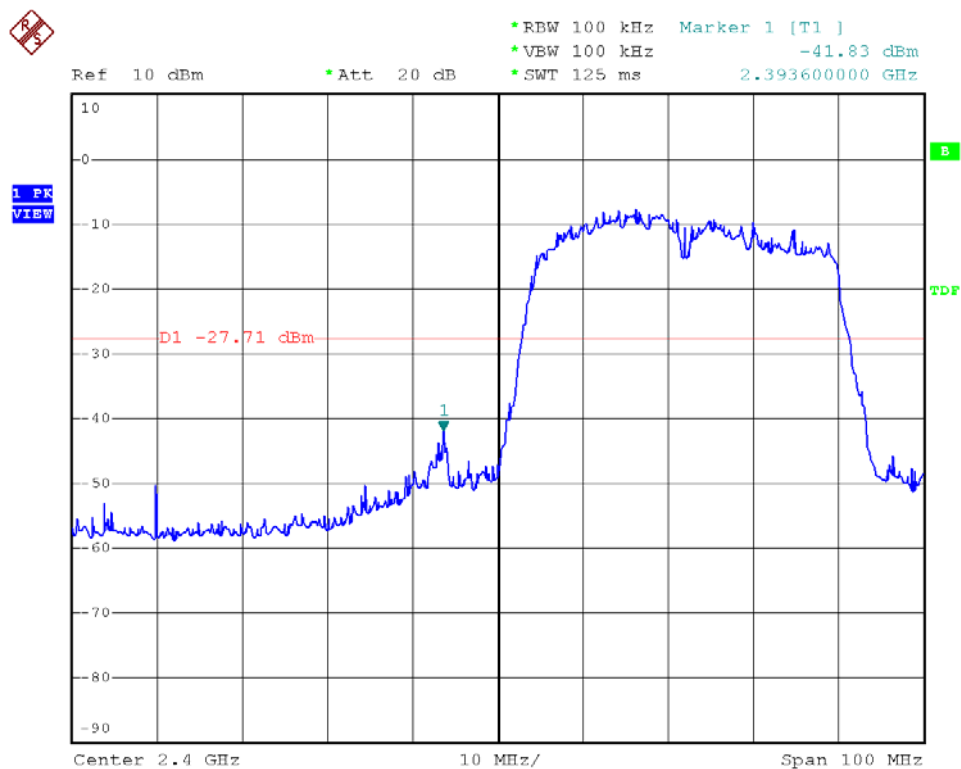


Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 11



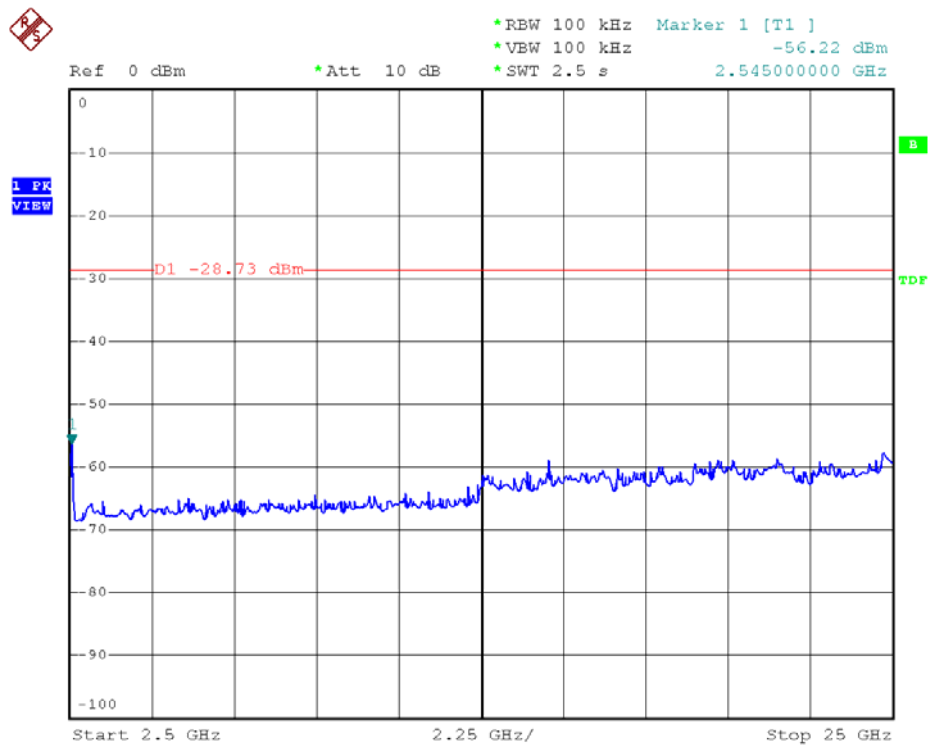
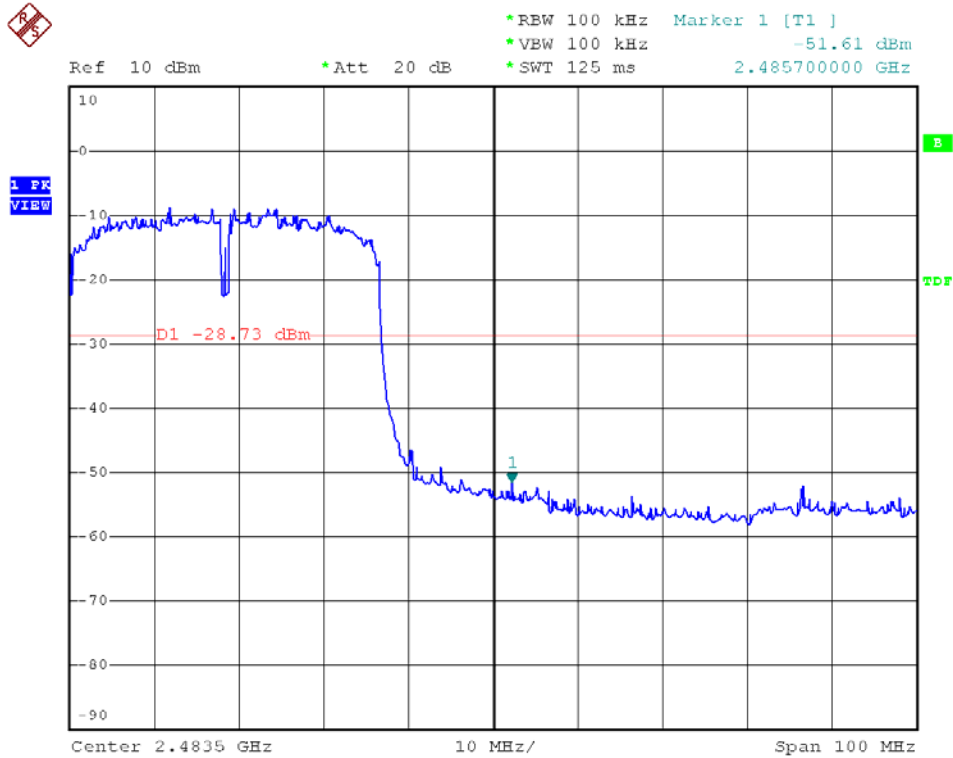


Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 03



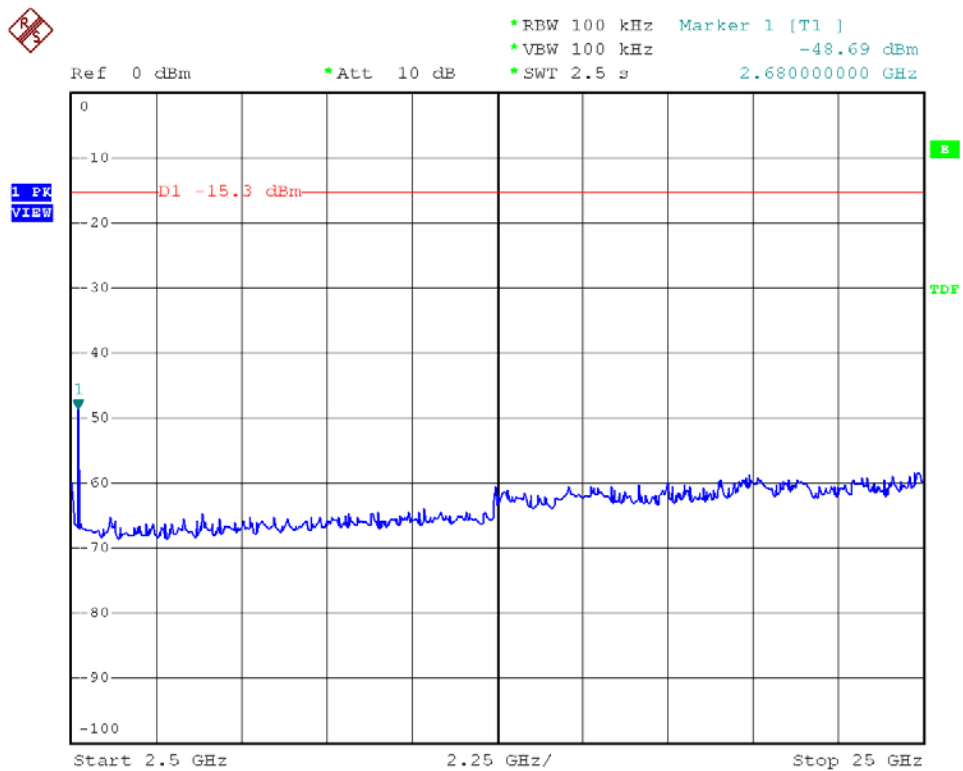
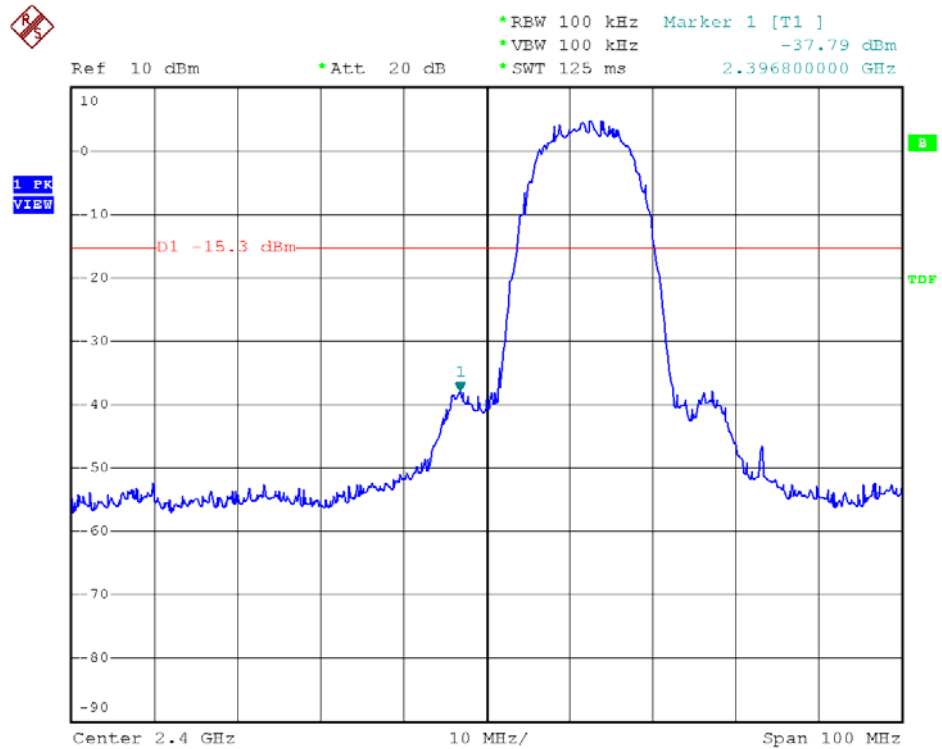


Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 09



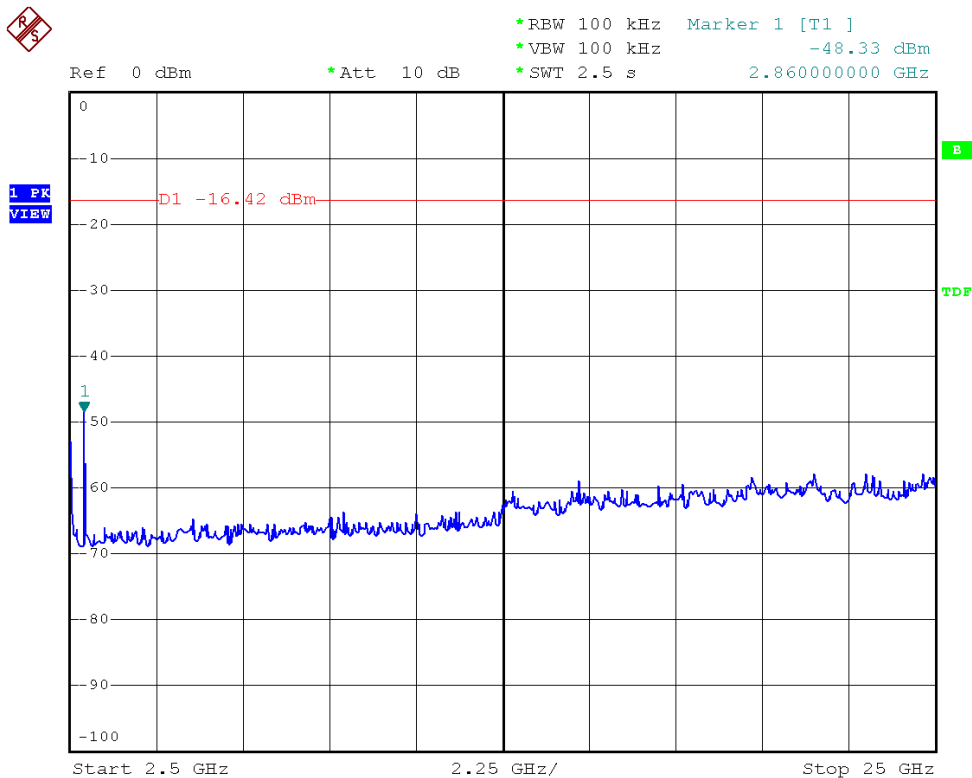
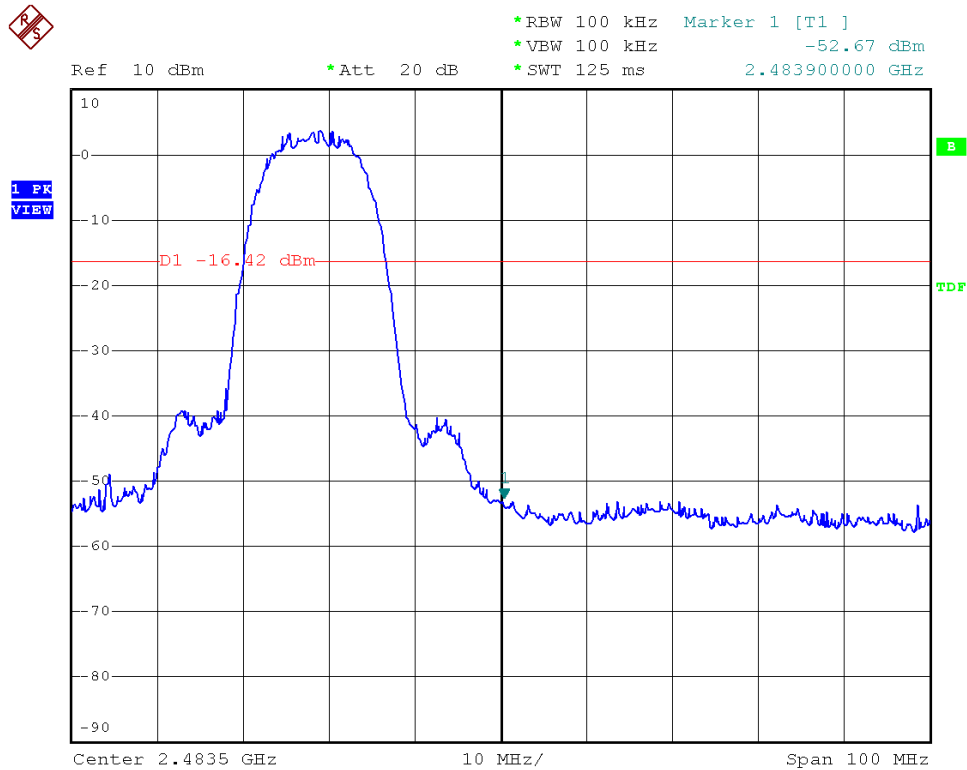


Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 01



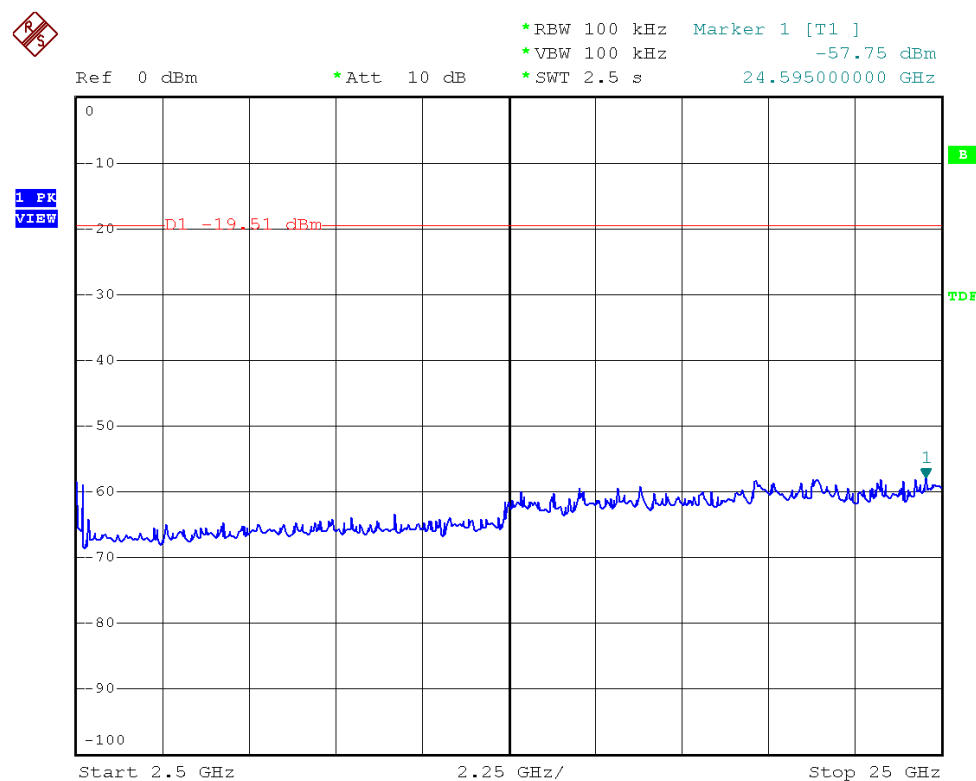
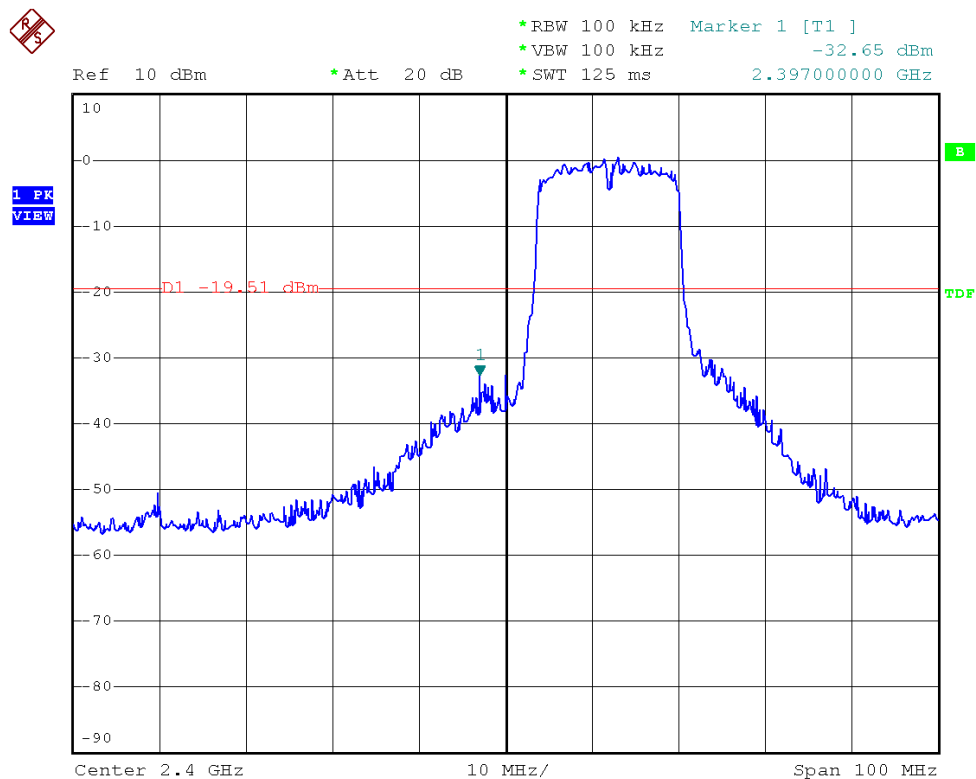


Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 11



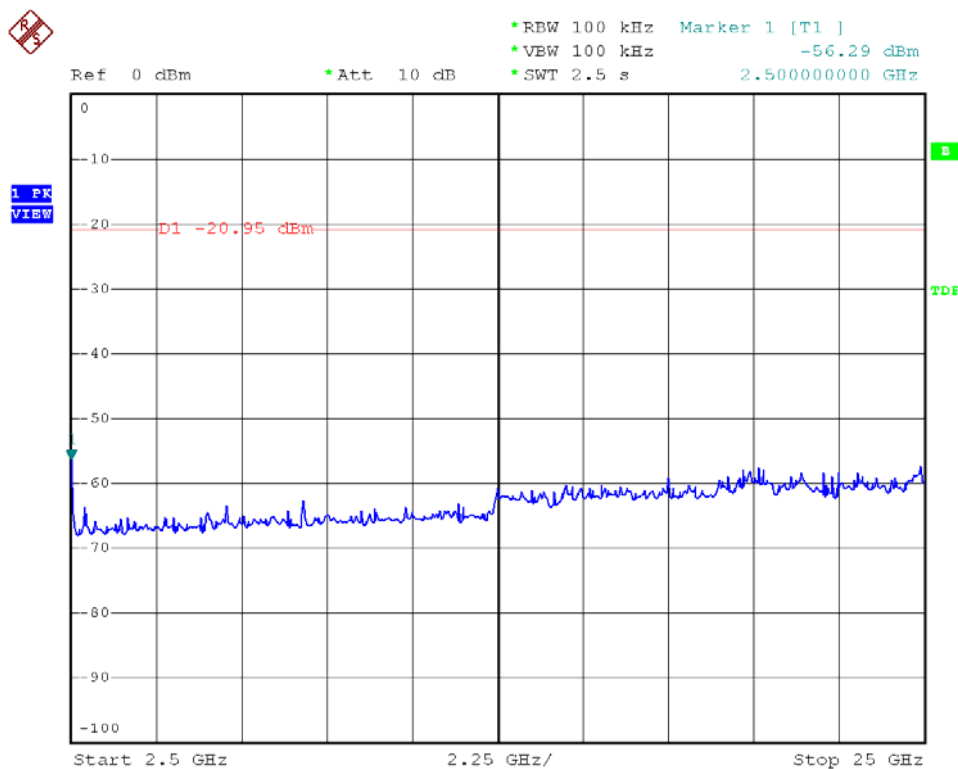
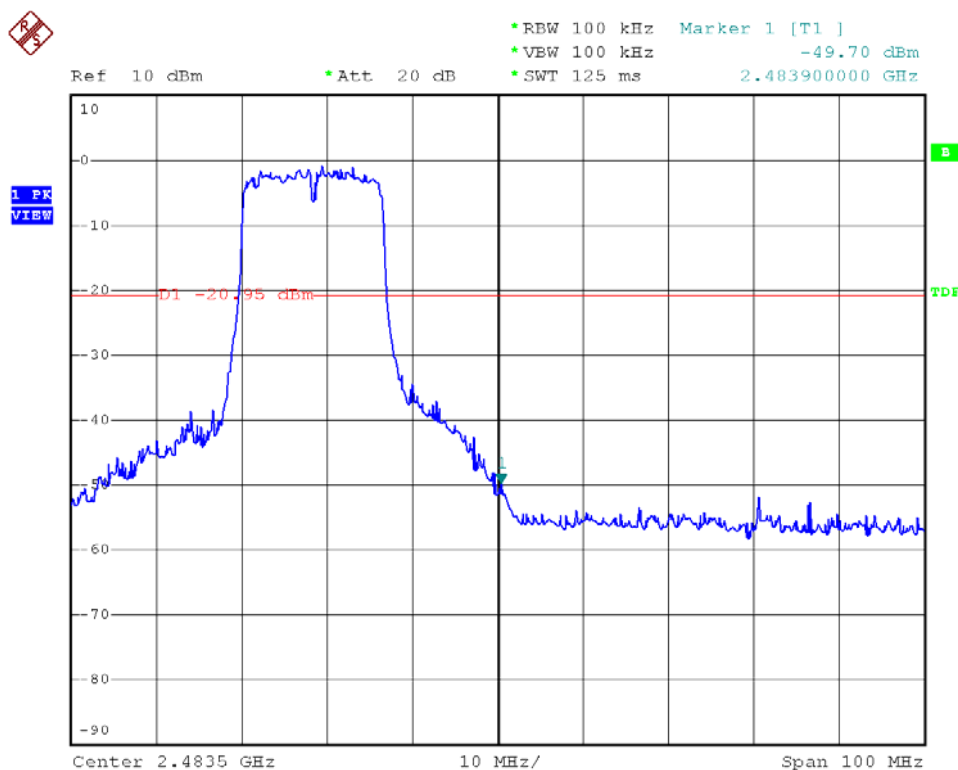


Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 01



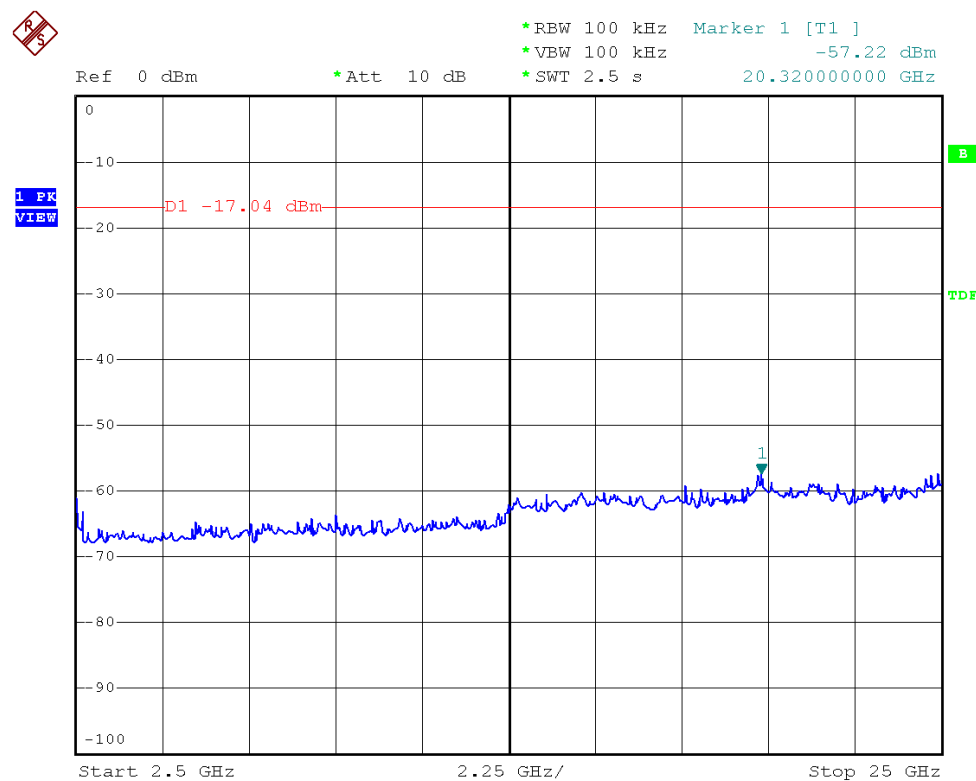
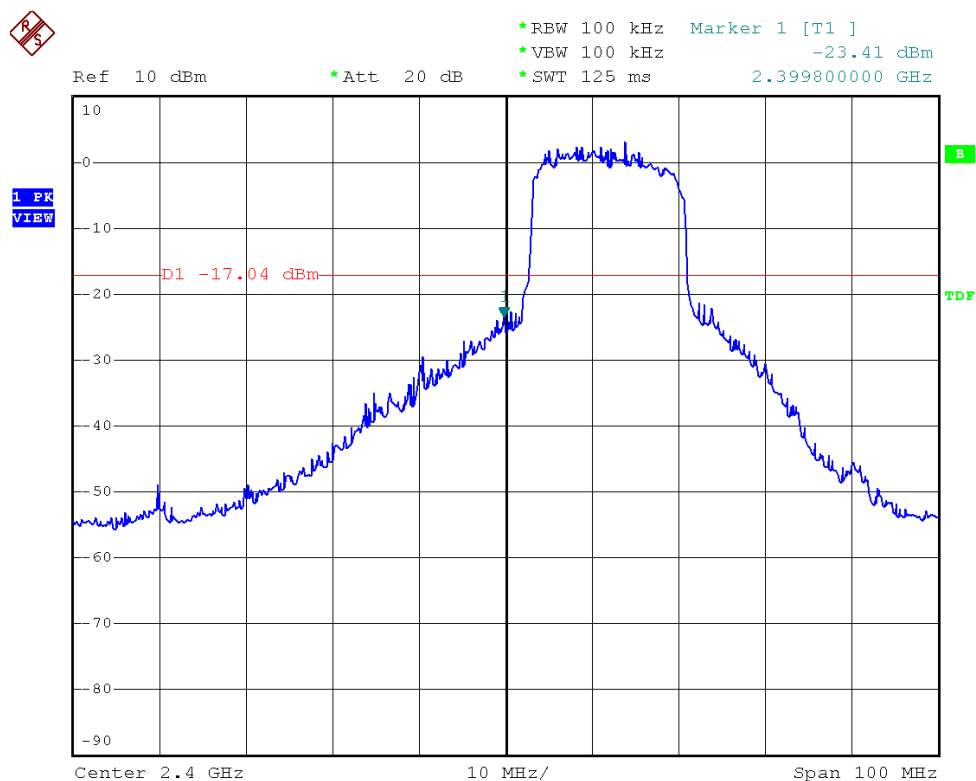


Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 11



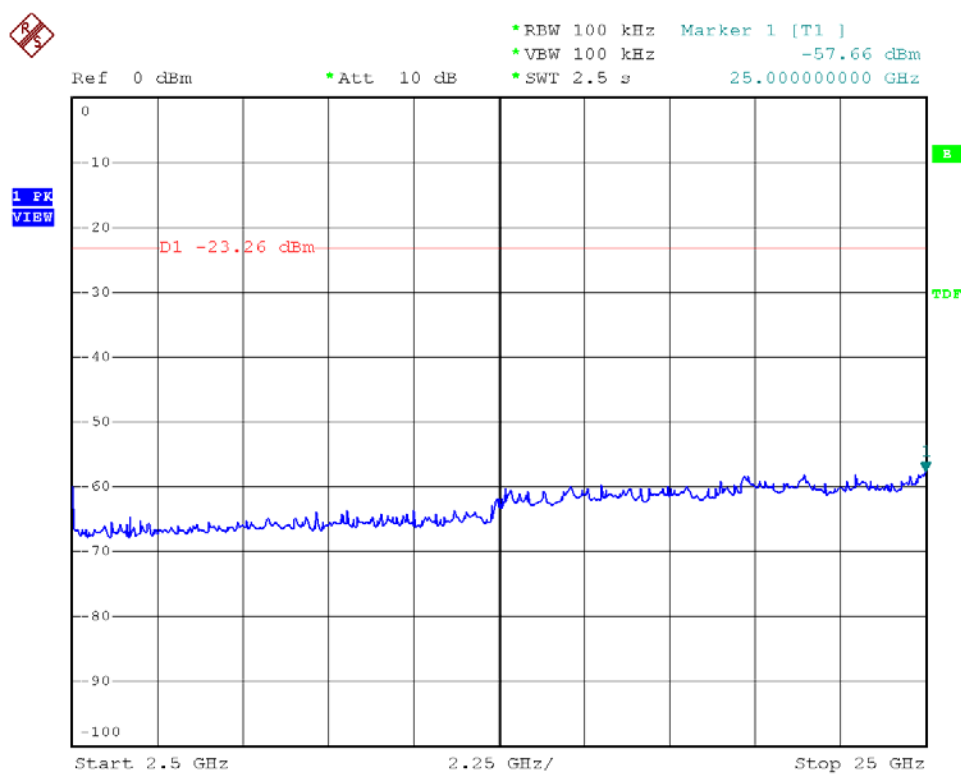
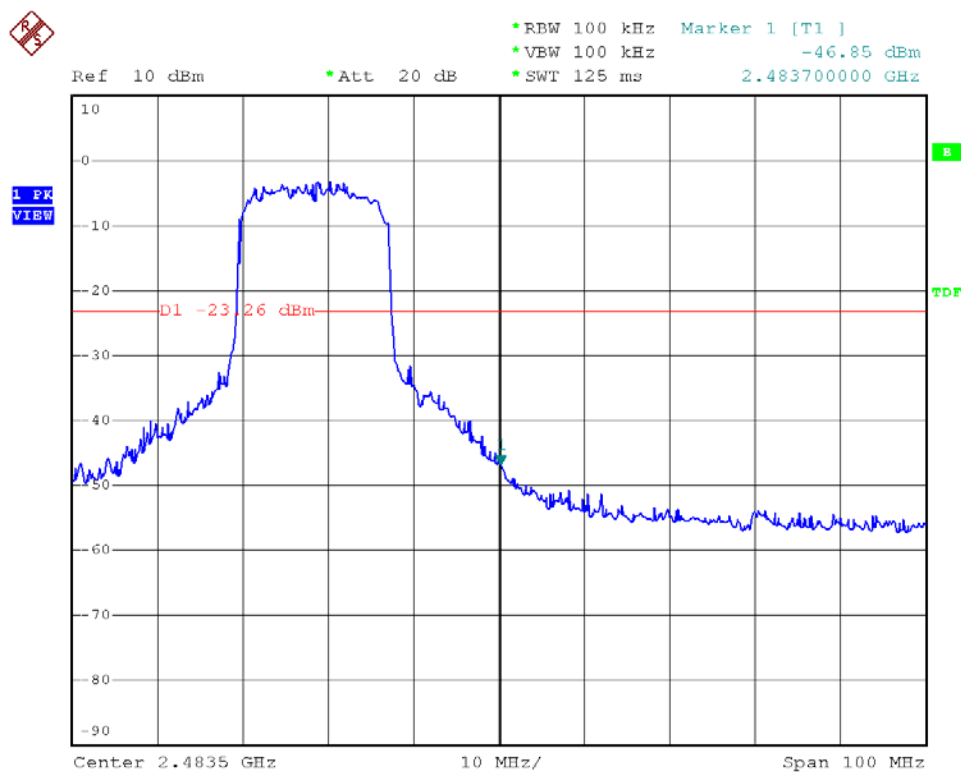


Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 01





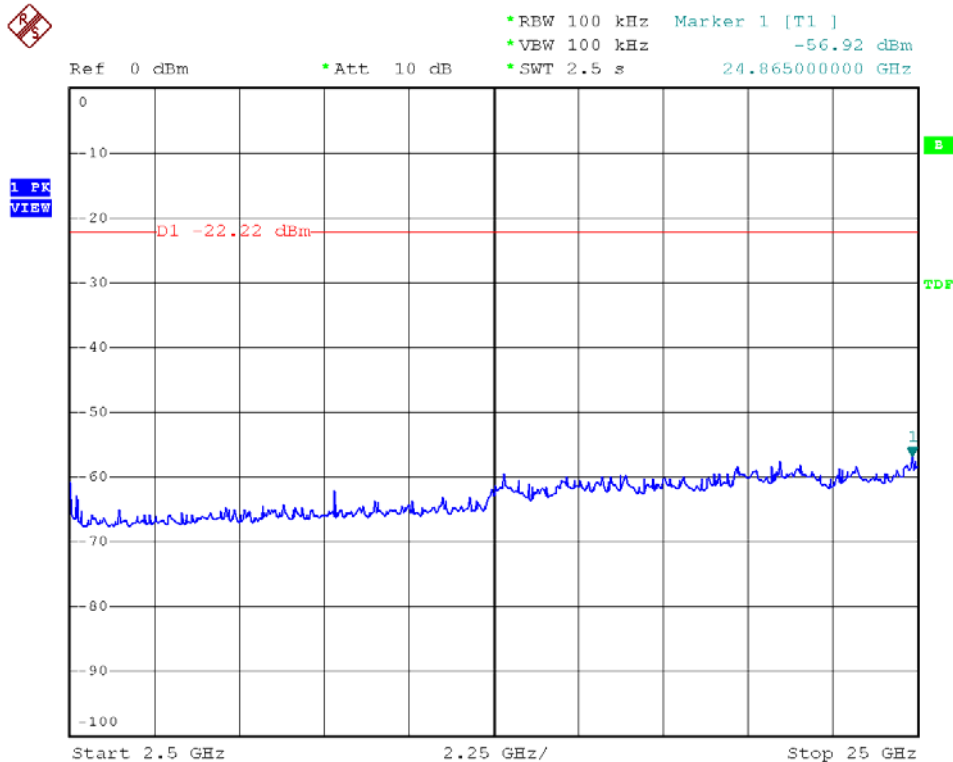
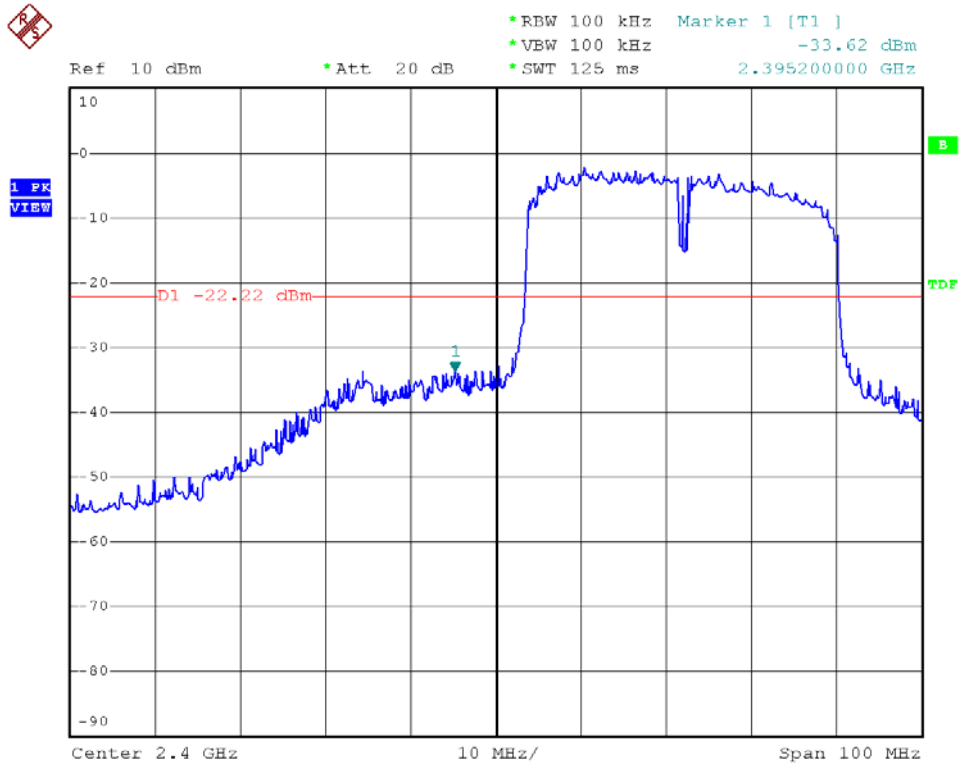
Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 11





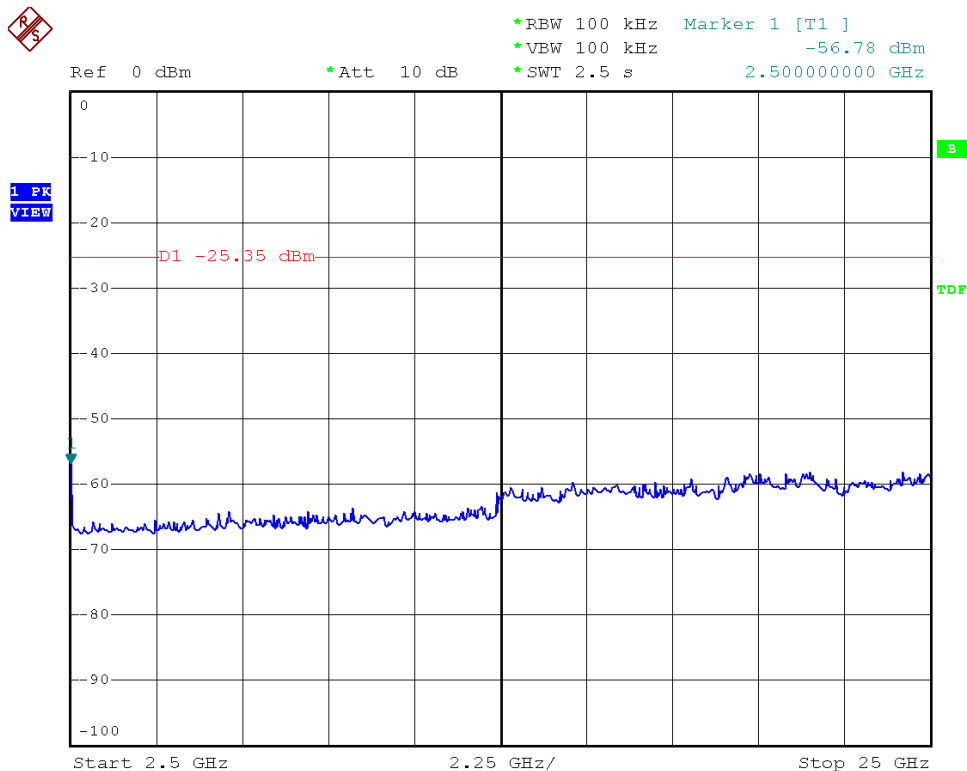
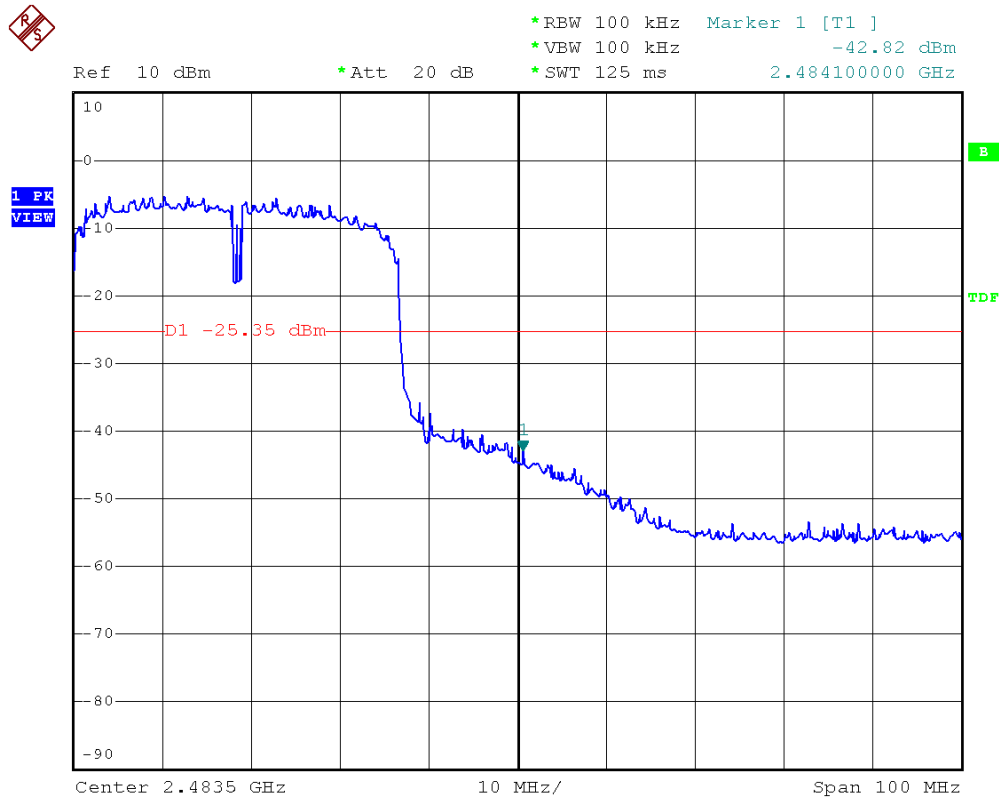
Modulation Standard: 802.11n HT40 (270Mbps), ANT L

Channel: 03





Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 09





8.6 Restrict Band Emission Measurement Data

Test Date : Aug. 23, 2011
 Temperature : 24
 Humidity : 52 %
 Atmospheric Pressure : 1023 hPa
 Test Mode 1 :

Modulation Standard: IEEE 802.11b (11Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2329.89	H	49.69	-0.73	48.96	Peak	74	54	-25.04	360	100
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2359.98	V	56.26	-0.63	55.63	Peak	74	54	-18.37	360	100
2359.98	V	48.82	-0.63	48.19	Ave	74	54	-5.81	0	100
Channel 11						Fundamental Frequency: 2462 MHz				
2499.24	H	49.99	-0.13	49.86	Peak	74	54	-24.14	46	100
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2483.96	V	57.86	-0.19	57.67	Peak	74	54	-16.33	0	100
2483.87	V	41.39	-0.19	41.20	Ave	74	54	-12.80	184	102

Modulation Standard: IEEE 802.11g (54Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2312.86	H	49.53	-0.79	48.74	Peak	74	54	-25.26	34	100
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2359.47	V	53.71	-0.63	53.08	Peak	74	54	-20.92	266	100
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----
Channel 11						Fundamental Frequency: 2462 MHz				
2499.70	H	50.16	-0.13	50.03	Peak	74	54	-23.97	360	100
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2483.96	V	51.06	-0.19	50.87	Peak	74	54	-23.13	103	100
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



Test Date : Aug. 23, 2011
Temperature : 24
Humidity : 52 %
Atmospheric Pressure : 1023 hPa
Test Mode 1 :

Modulation Standard: IEEE 802.11n HT20 (130Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2340.09	H	49.80	-0.70	49.10	Peak	74	54	-24.90	0	100
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2359.78	V	54.51	-0.63	53.88	Peak	74	54	-20.12	360	100
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----
Channel 11						Fundamental Frequency: 2462 MHz				
2496.20	H	49.91	-0.14	49.77	Peak	74	54	-24.23	360	100
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2496.20	V	50.63	-0.14	50.49	Peak	74	54	-23.51	0	100
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----

Modulation Standard: IEEE 802.11n HT40 (270Mbps)

Channel 3						Fundamental Frequency: 2422 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2323.06	H	49.97	-0.75	49.22	Peak	74	54	-24.78	0	100
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2388.34	V	54.12	-0.52	53.60	Peak	74	54	-20.40	358	100
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----
Channel 9						Fundamental Frequency: 2452 MHz				
2494.87	H	49.48	-0.16	49.32	Peak	74	54	-24.68	360	100
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2483.58	V	54.76	-0.19	54.57	Peak	74	54	-19.43	360	100
2483.58	V	41.71	-0.19	41.52	Ave	74	54	-12.48	0	100

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.



Test Date : Oct. 12, 2011
Temperature : 24
Humidity : 52 %
Atmospheric Pressure : 1023 hPa
Test Mode 2 :

Modulation Standard: IEEE 802.11b+Zigbee (11Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2330.55	H	49.89	-0.73	49.16	Peak	74	54	-24.84	360	1.00
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2387.50	V	51.65	-0.36	51.29	Peak	74	54	-22.71	188	1.00
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----
Channel 11						Fundamental Frequency: 2462 MHz				
2483.50	H	59.86	0.00	59.86	Peak	74	54	-14.14	216	1.50
2483.50	H	49.46	0.00	49.46	Ave	74	54	-4.54	216	1.50
2483.50	V	61.73	0.00	61.73	Peak	74	54	-12.27	214	1.50
2483.50	V	50.68	0.00	50.68	Ave	74	54	-3.32	214	1.50

Modulation Standard: IEEE 802.11g+Zigbee (54Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2312.86	H	49.59	-0.79	48.80	Peak	74	54	-25.20	34	1.00
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2387.43	V	51.46	-0.36	51.10	Peak	74	54	-22.90	188	1.00
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----
Channel 11						Fundamental Frequency: 2462 MHz				
2483.50	H	59.65	0.00	59.65	Peak	74	54	-14.35	216	1.50
2483.50	H	49.85	0.00	49.85	Ave	74	54	-4.15	216	1.50
2483.50	V	61.65	0.00	61.65	Peak	74	54	-12.35	214	1.50
2483.50	V	50.47	0.00	50.47	Ave	74	54	-3.53	214	1.50

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



Test Date : Oct. 12, 2011
Temperature : 24
Humidity : 52 %
Atmospheric Pressure : 1023 hPa
Test Mode 2 :

Modulation Standard: IEEE 802.11n HT20+Zigbee (130Mbps)

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2340.10	H	49.75	-0.70	49.05	Peak	74	54	-24.95	0	1.00
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2387.50	V	51.63	-0.36	51.27	Peak	74	54	-22.73	188	1.00
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----
Channel 11						Fundamental Frequency: 2462 MHz				
2483.60	H	59.75	0.00	59.75	Peak	74	54	-14.25	216	1.50
2483.50	H	49.65	0.00	49.65	Ave	74	54	-4.35	216	1.50
2483.50	V	61.56	0.00	61.56	Peak	74	54	-12.44	214	1.50
2483.50	V	50.74	0.00	50.74	Ave	74	54	-3.26	214	1.50

Modulation Standard: IEEE 802.11n HT40+Zigbee (270Mbps)

Channel 3						Fundamental Frequency: 2422 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2323.06	H	49.62	-0.75	48.87	Peak	74	54	-25.13	0	1.00
-----	H	-----	-----	-----	Ave	74	54	-----	-----	-----
2387.43	V	51.59	-0.36	51.23	Peak	74	54	-22.77	188	1.00
-----	V	-----	-----	-----	Ave	74	54	-----	-----	-----
Channel 9						Fundamental Frequency: 2452 MHz				
2483.50	H	59.82	0.00	59.82	Peak	74	54	-14.18	216	1.50
2483.50	H	49.76	0.00	49.76	Ave	74	54	-7.24	216	1.50
2483.50	V	61.69	0.00	61.69	Peak	74	54	-12.31	214	1.50
2483.50	V	50.74	0.00	50.74	Ave	74	54	-3.26	214	1.50

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.



9. Power Spectral Density

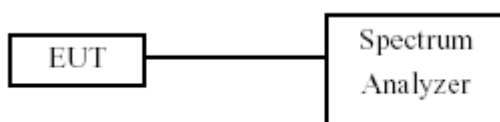
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 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=span/3KHz.
- The power spectral density was measured and recorded.
- The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

9.3 Test Setup Layout



9.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2011/05/05	2012/05/04

9.5 Test Result and Data

Test Date: Aug. 17, 2011

Temperature: 25

Atmospheric pressure: 1020 hPa

Humidity: 46 %

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)	
			ANT R	ANT L
802.11b (11Mbps)	01	2412	-10.70	-11.17
	06	2437	-10.72	-9.92
	11	2462	-10.91	-10.33
802.11g (54Mbps)	01	2412	-17.86	-14.81
	06	2437	-16.71	-14.55
	11	2462	-18.35	-14.83



Test Date: Aug. 17, 2011

Temperature: 25

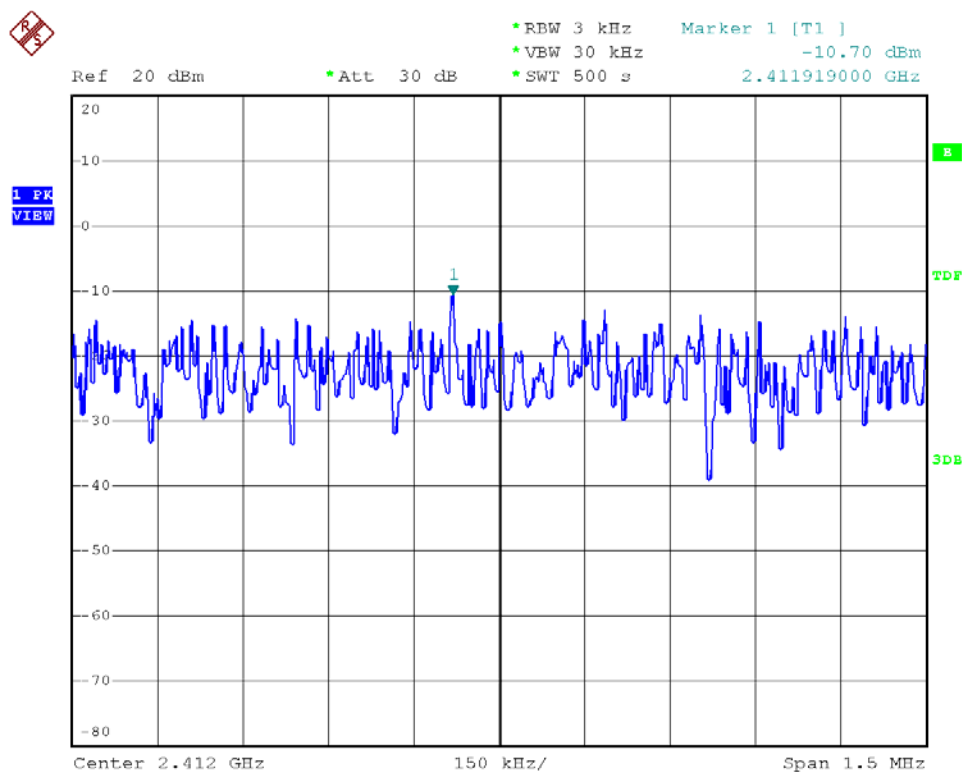
Atmospheric pressure: 1020 hPa

Humidity: 46 %

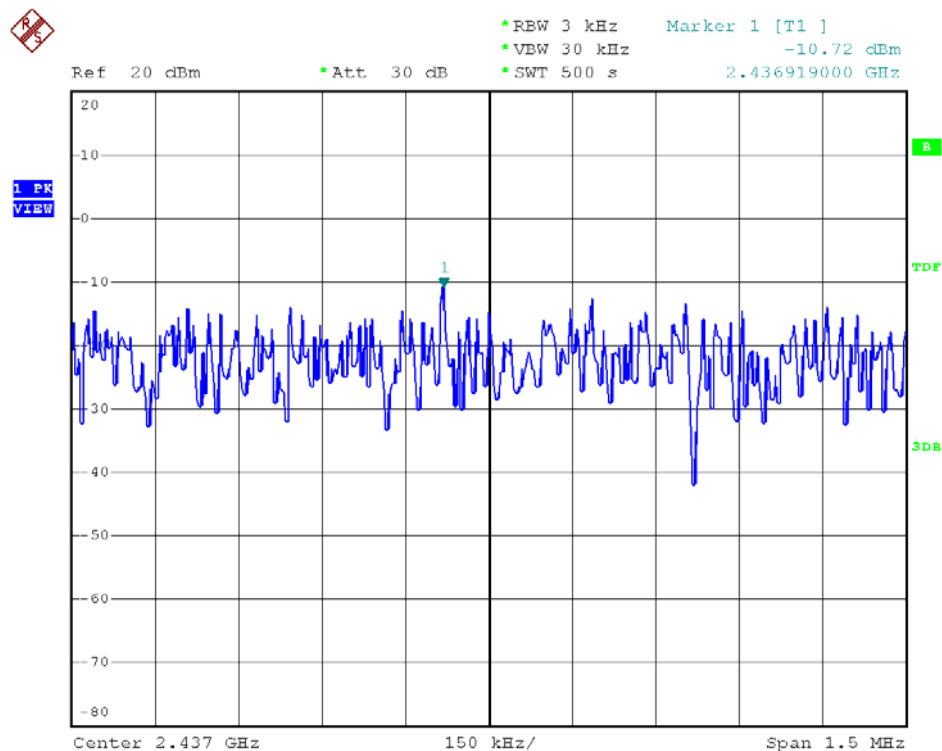
Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			ANT R	ANT L	R+L
802.11n HT20 (130Mbps)	01	2412	-20.98	-16.98	-15.52
	06	2437	-17.29	-17.02	-14.14
	11	2462	-18.72	-17.65	-15.14
802.11n HT40 (270Mbps)	03	2422	-21.96	-17.71	-16.32
	06	2437	-18.82	-13.18	-12.13
	09	2452	-19.65	-14.81	-13.58



Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 01

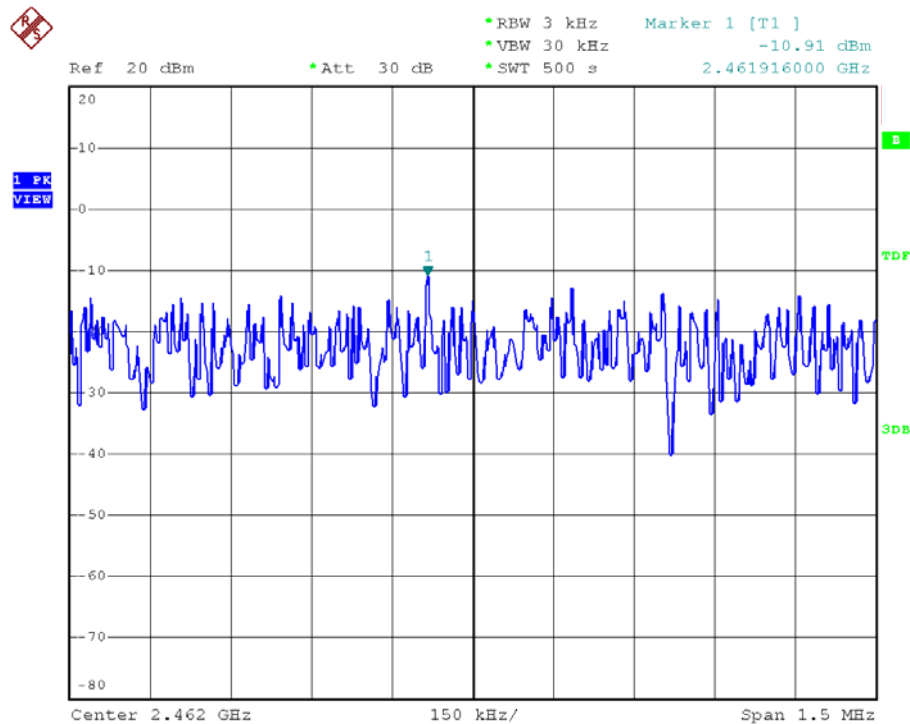


Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 06

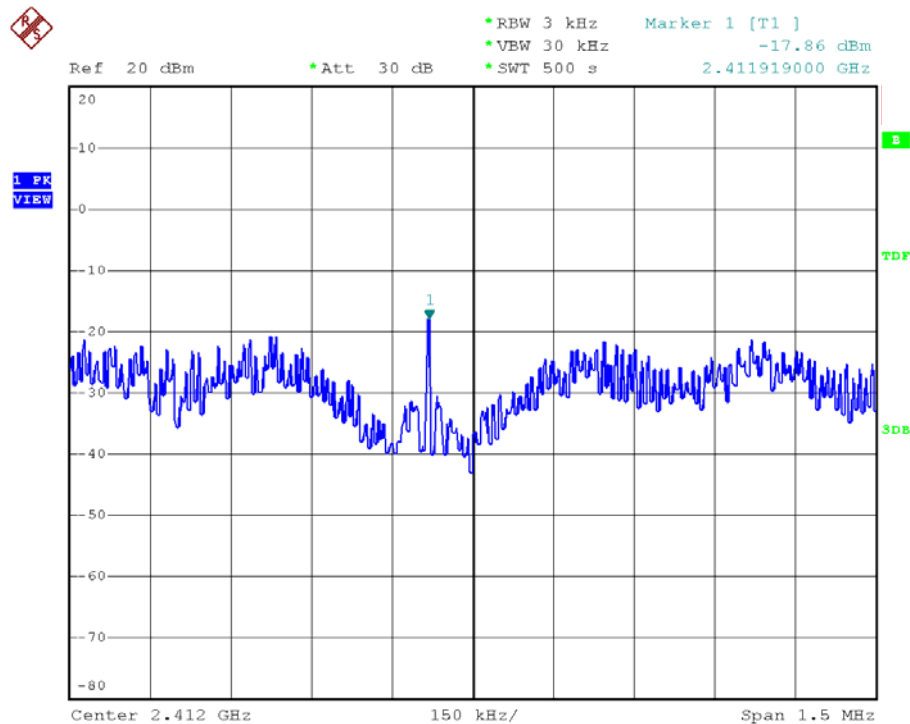




Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 11

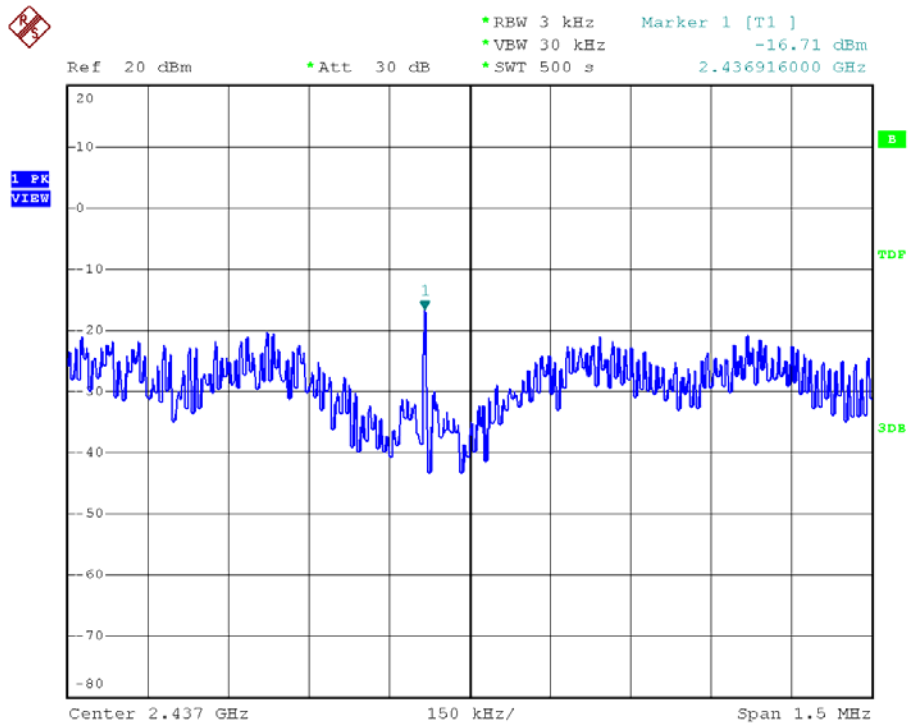


Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 01

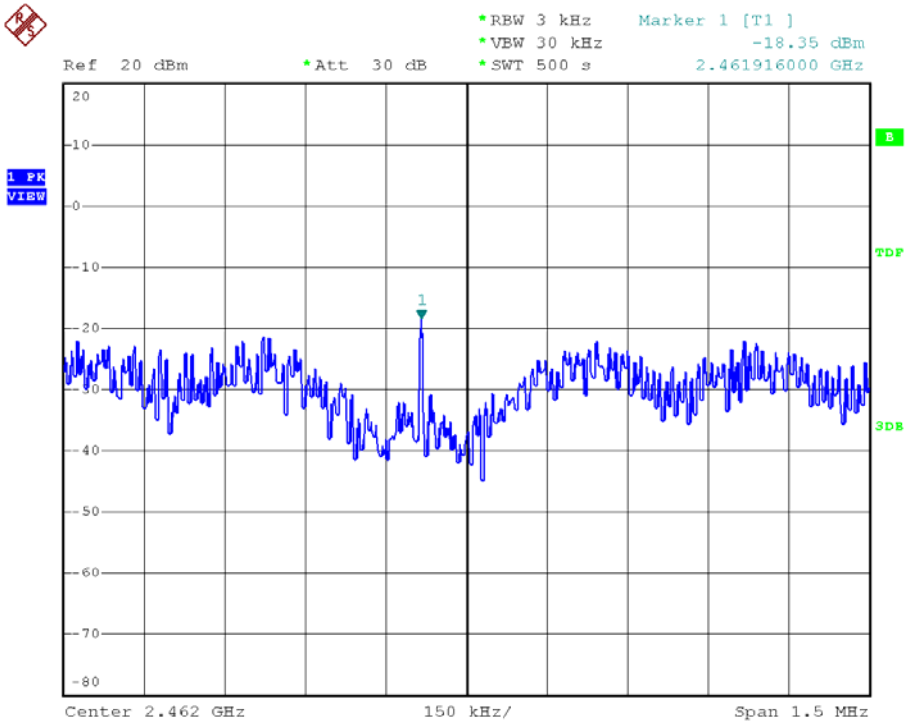




Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 06

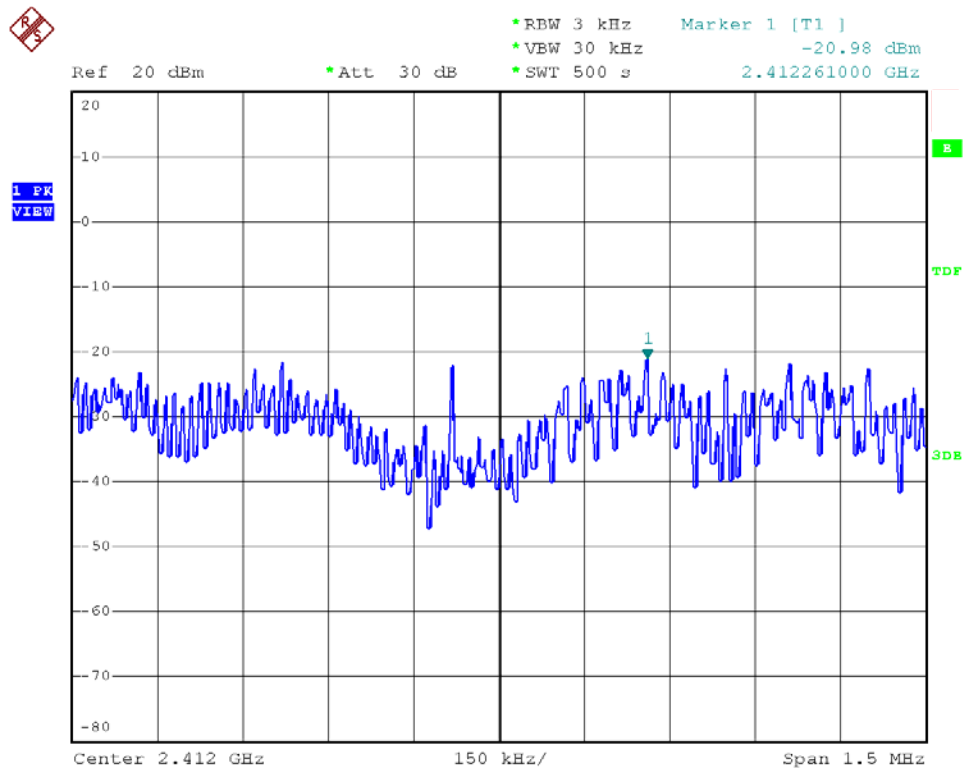


Modulation Standard: 802.11g (54Mbps), ANT R
Channel: 11

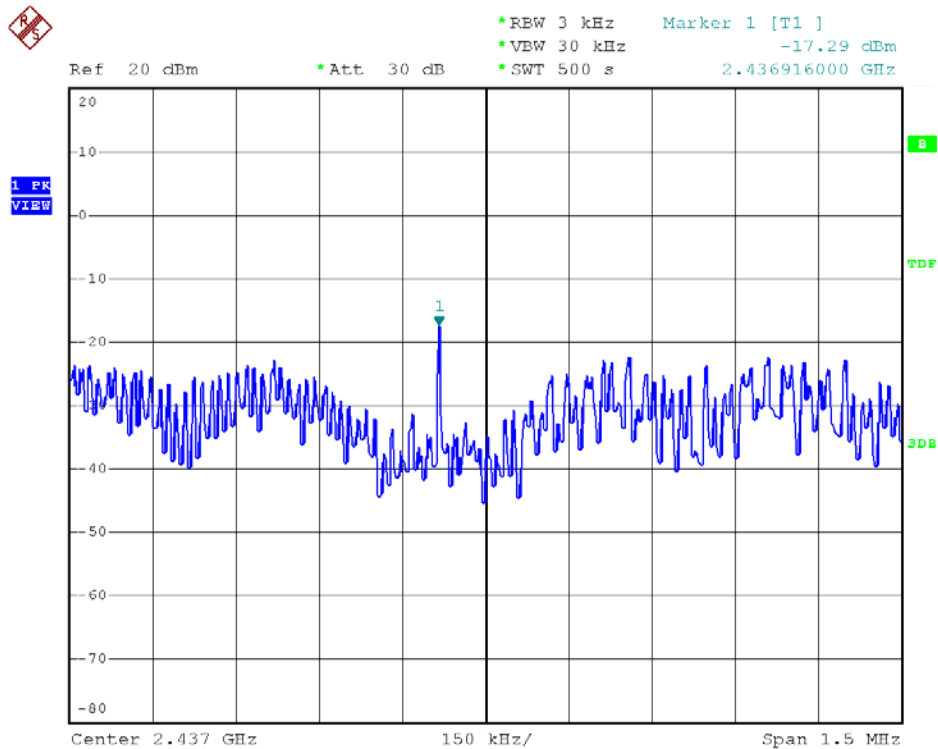




Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 01

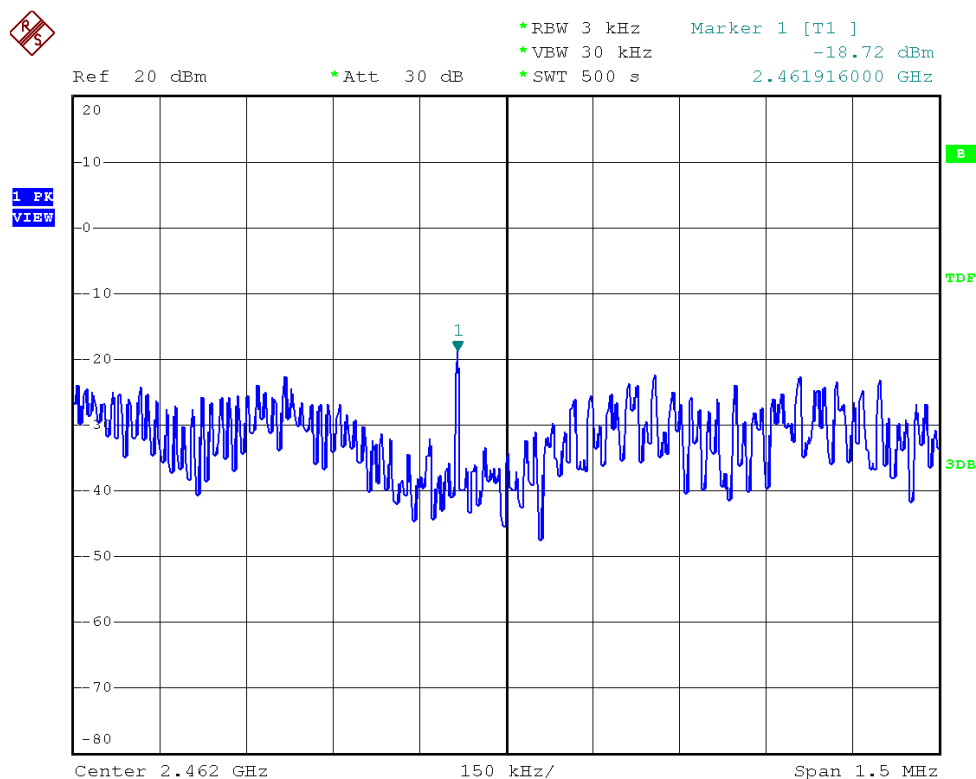


Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 06

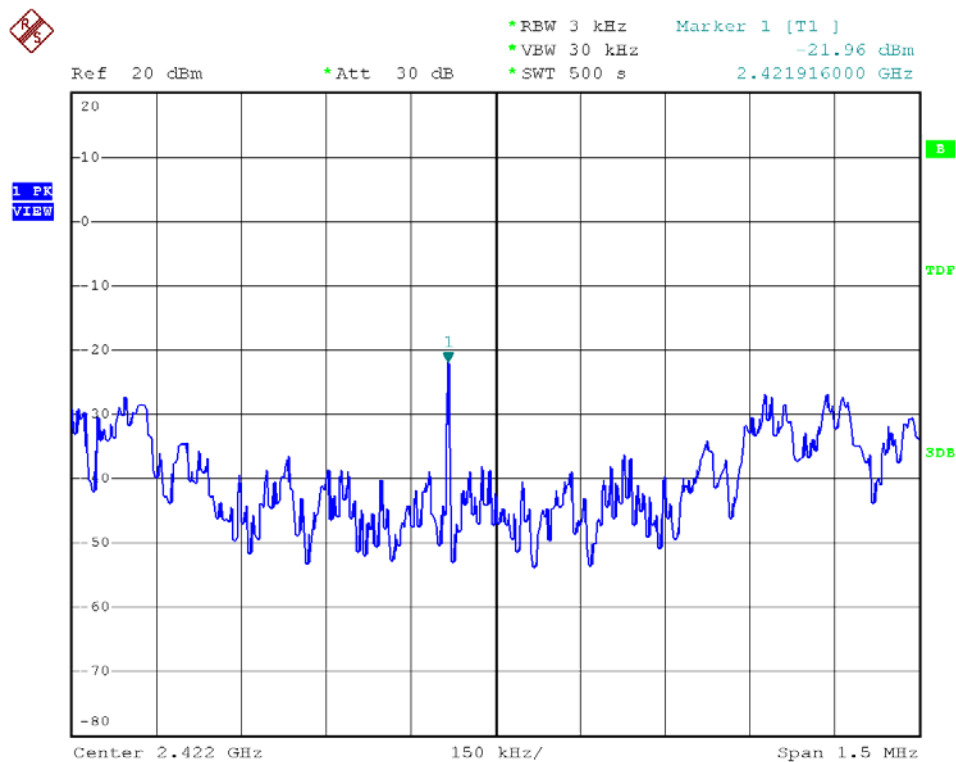




Modulation Standard: 802.11n HT20 (130Mbps), ANT R
Channel: 11

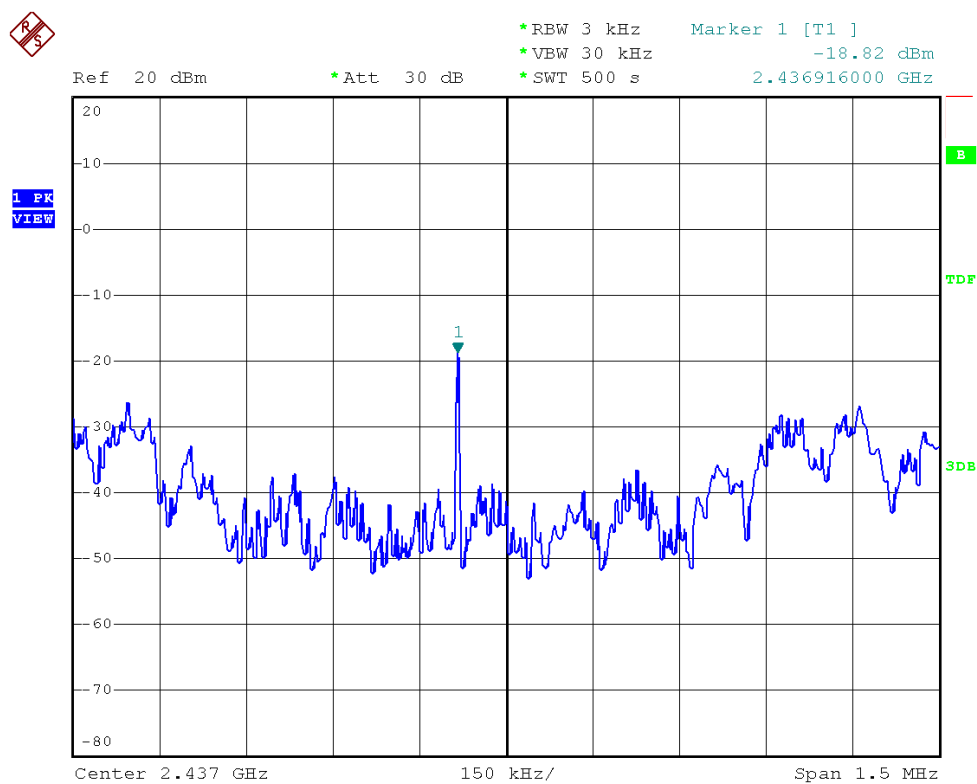


Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 03

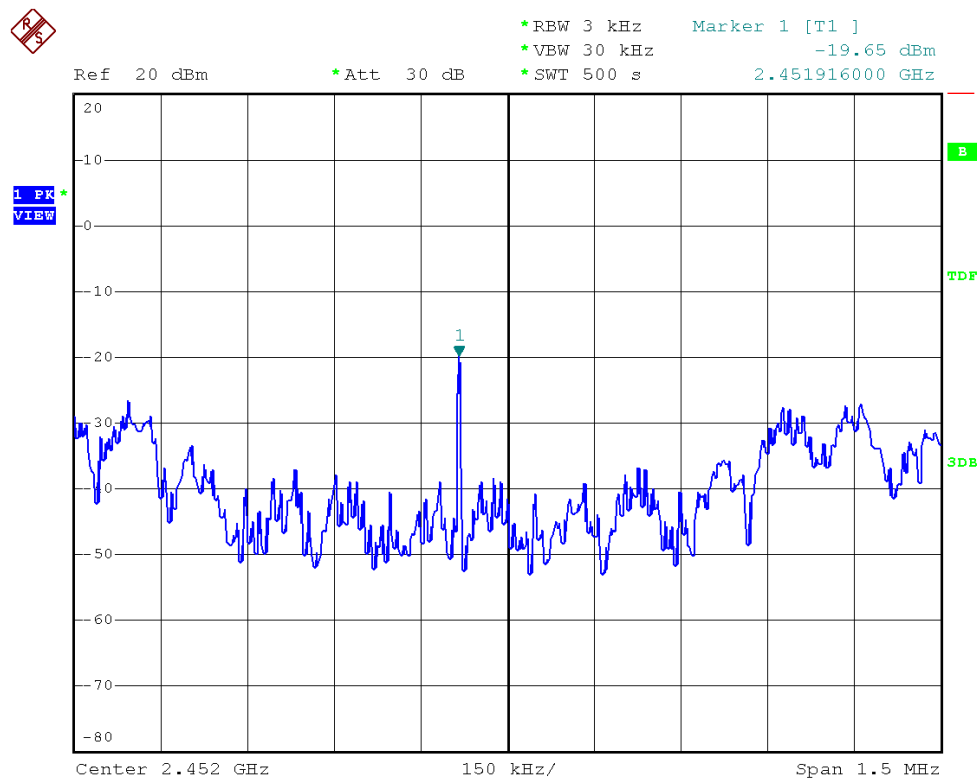




Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 06

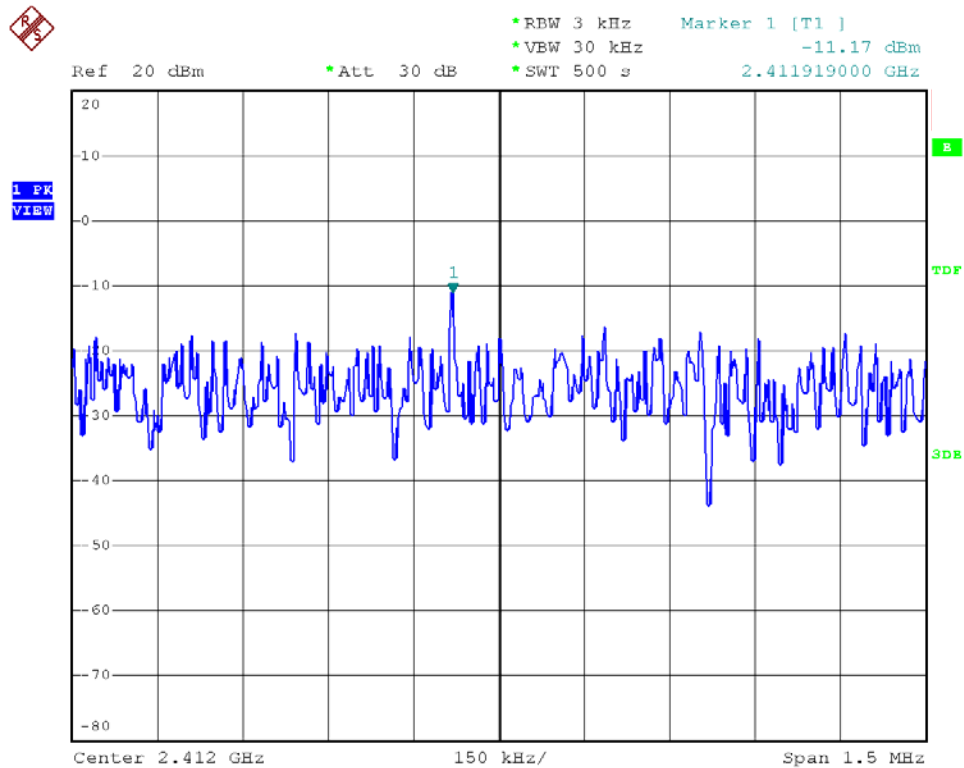


Modulation Standard: 802.11n HT40 (270Mbps), ANT R
Channel: 09

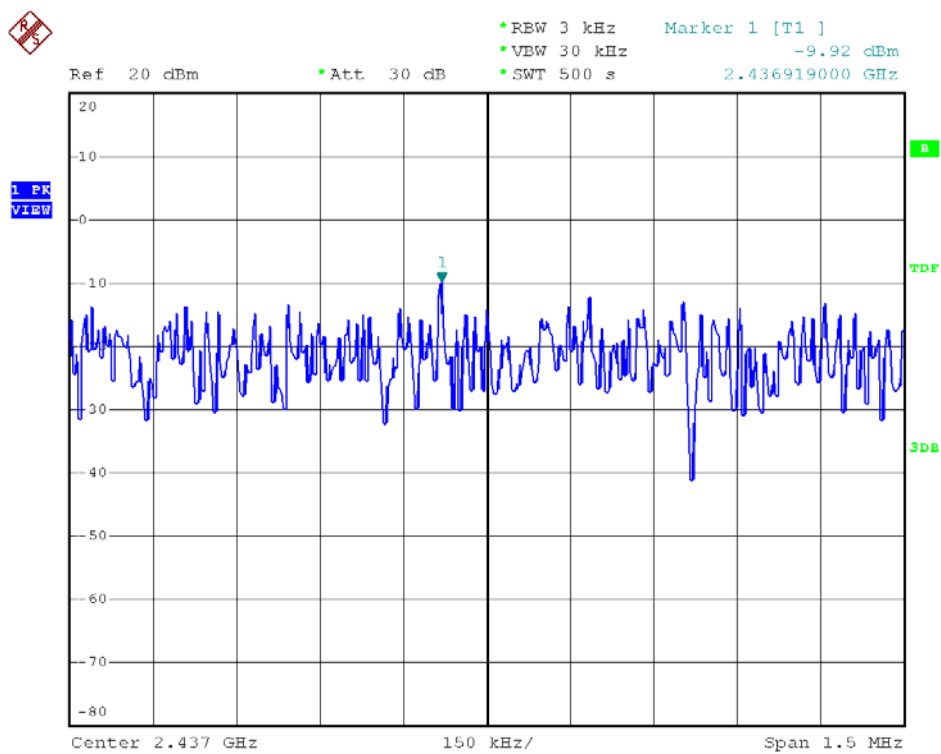




Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 01

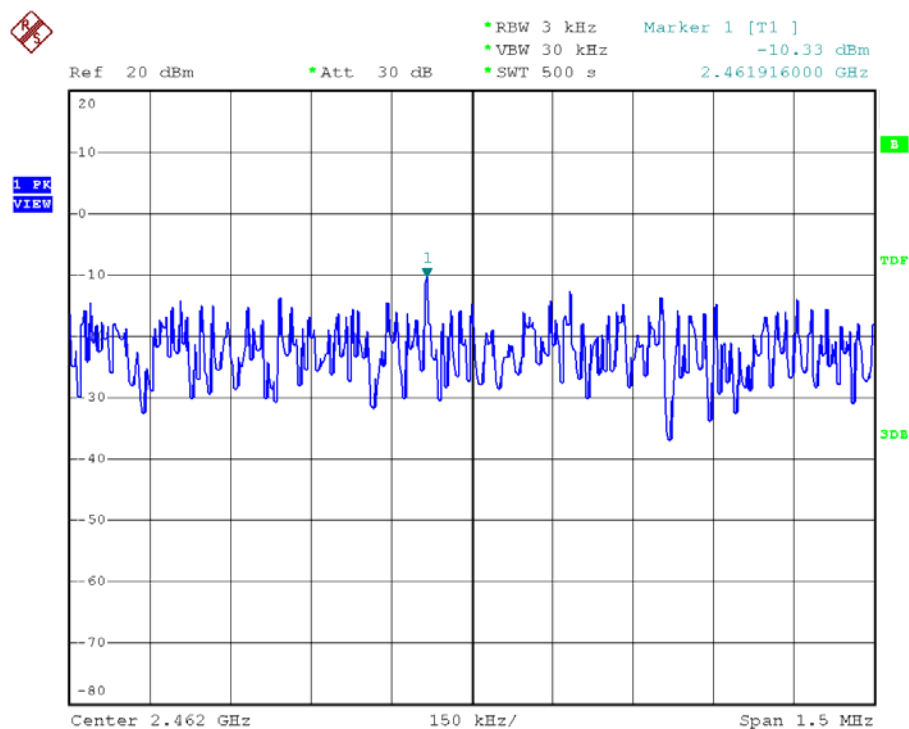


Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 06

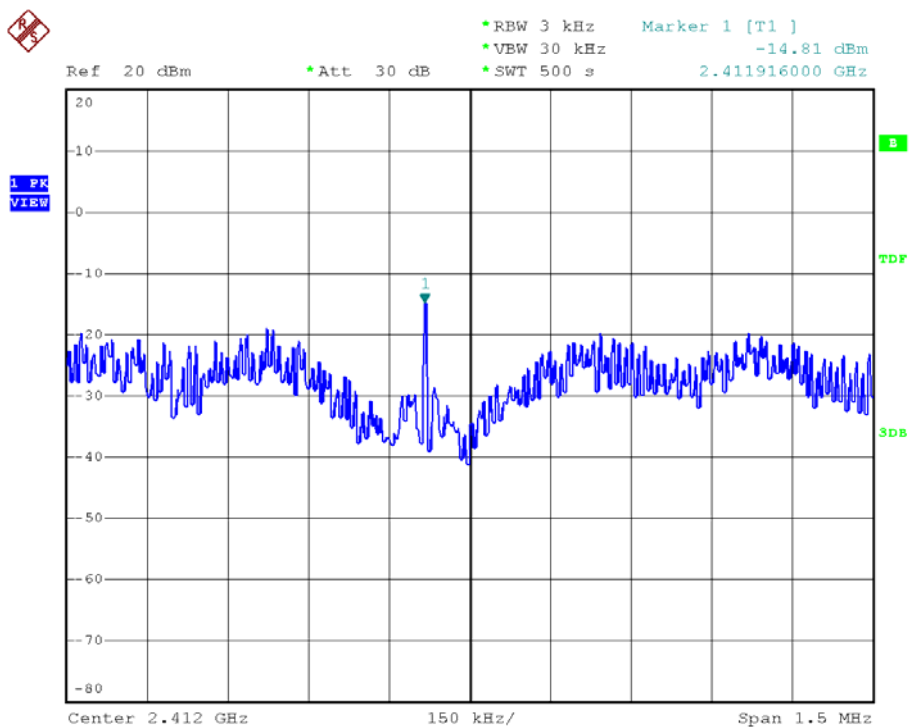




Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 11

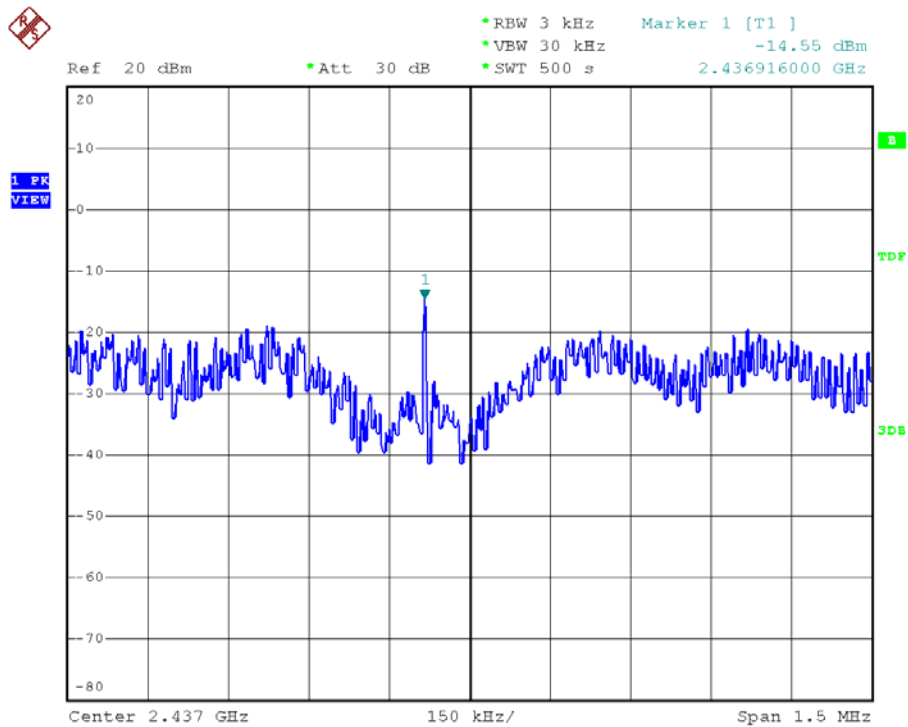


Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 01

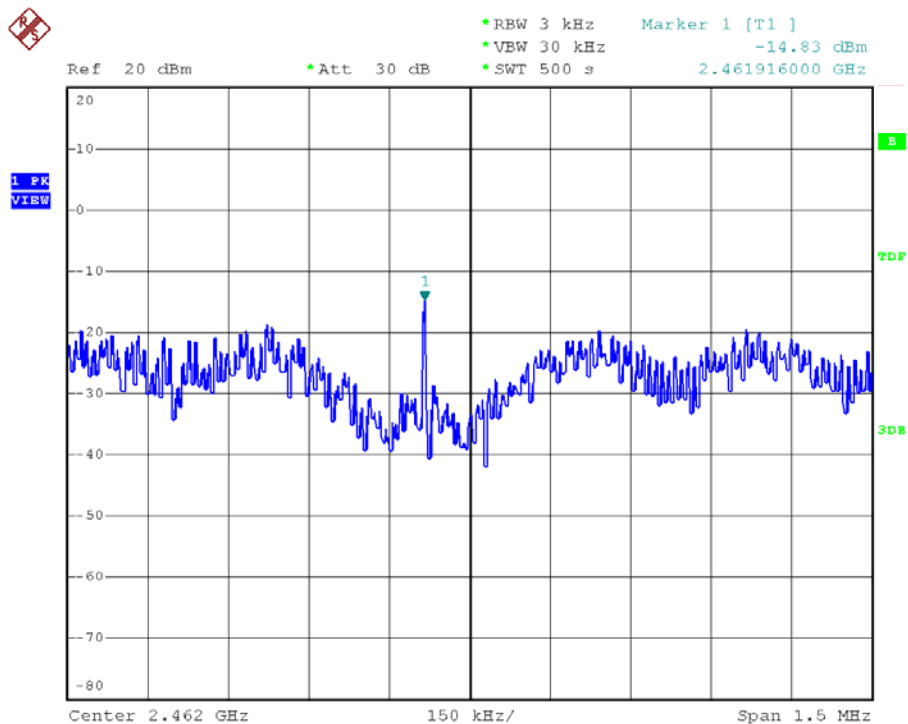




Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 06

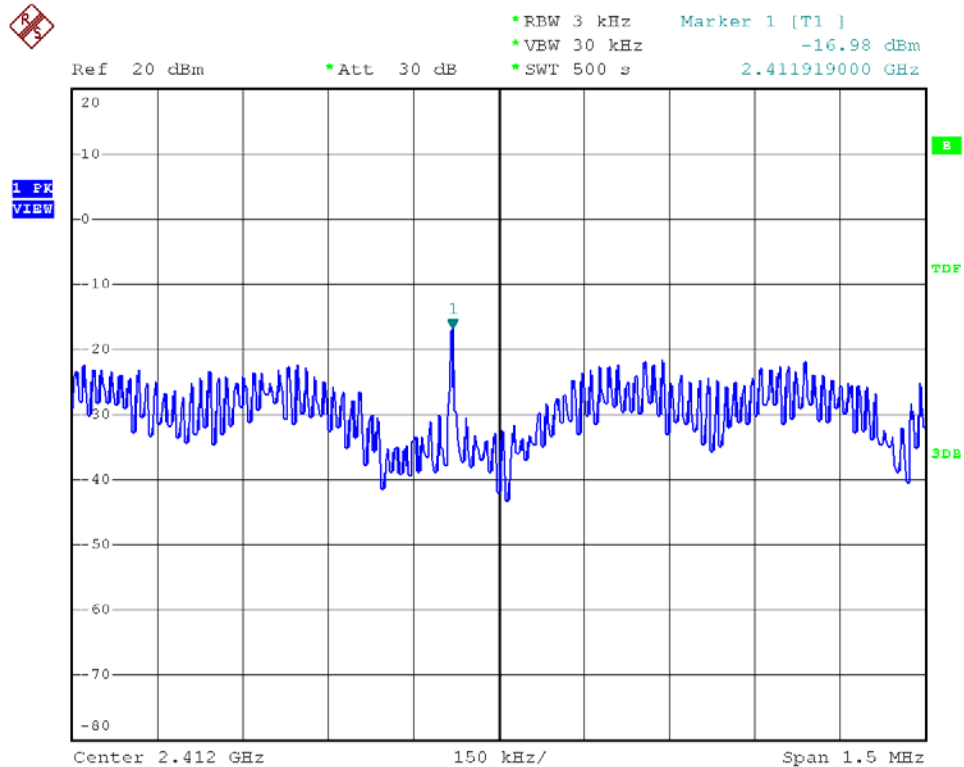


Modulation Standard: 802.11g (54Mbps), ANT L
Channel: 11

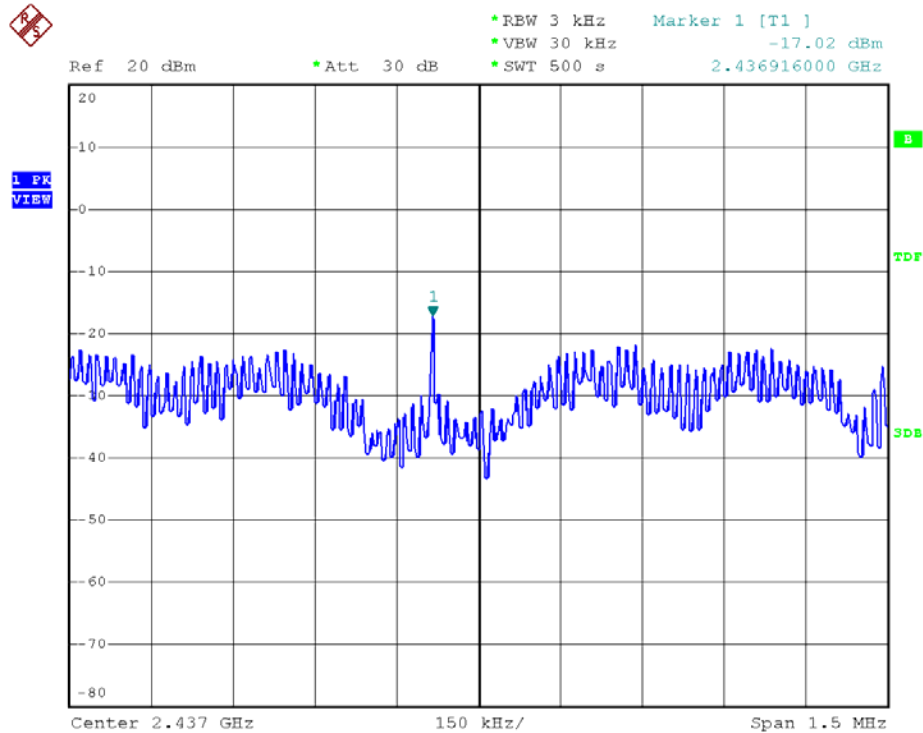




Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 01

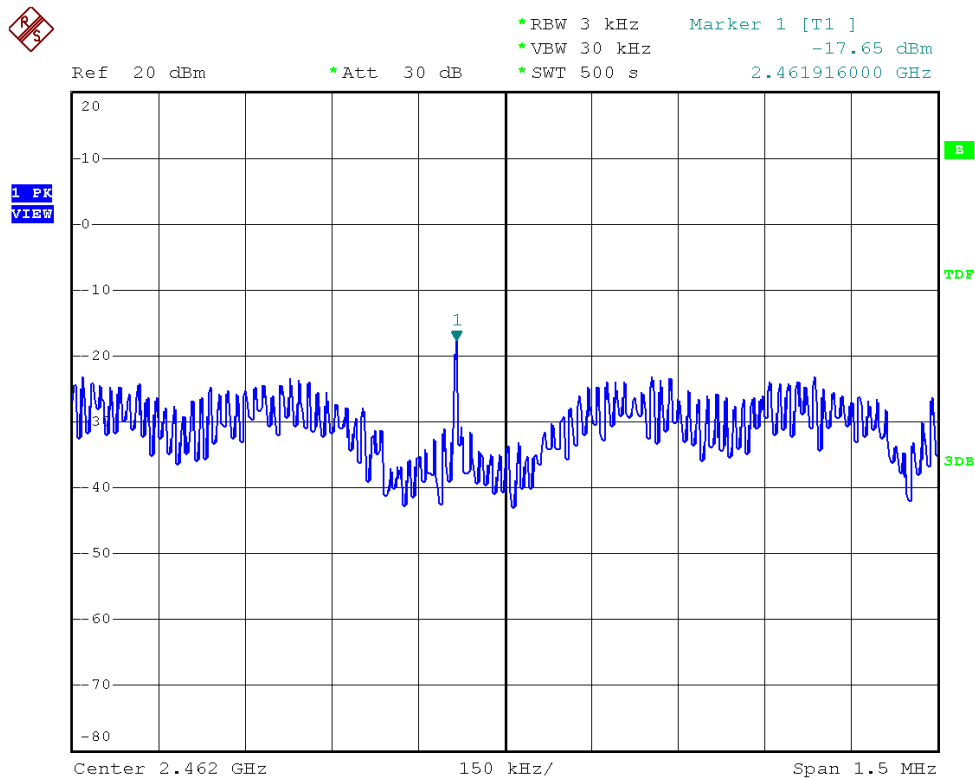


Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 06

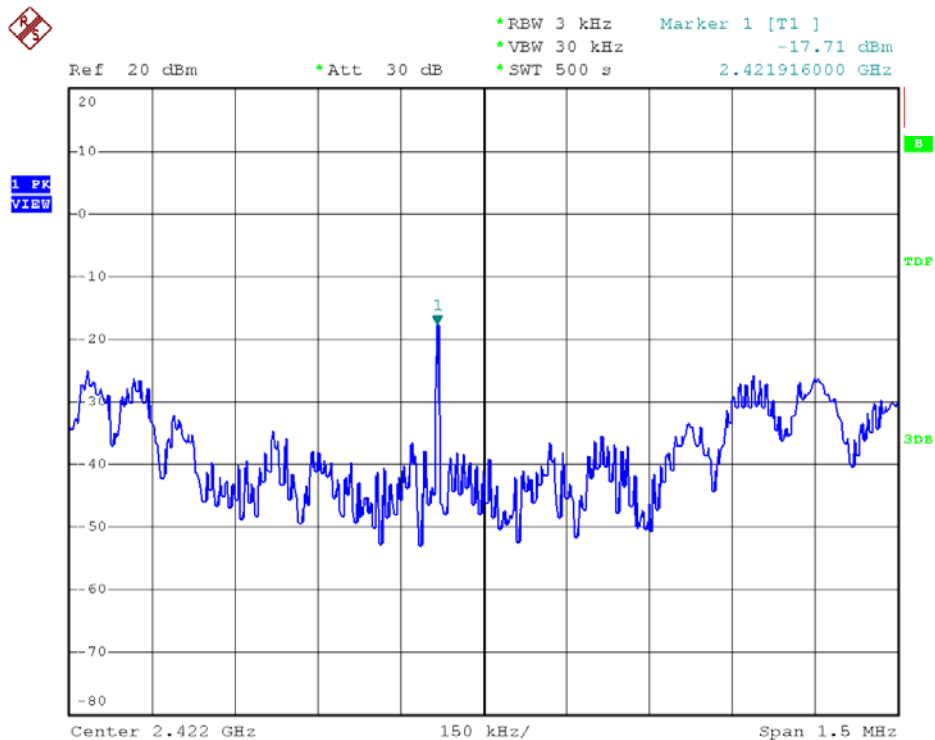




Modulation Standard: 802.11n HT20 (130Mbps), ANT L
Channel: 11

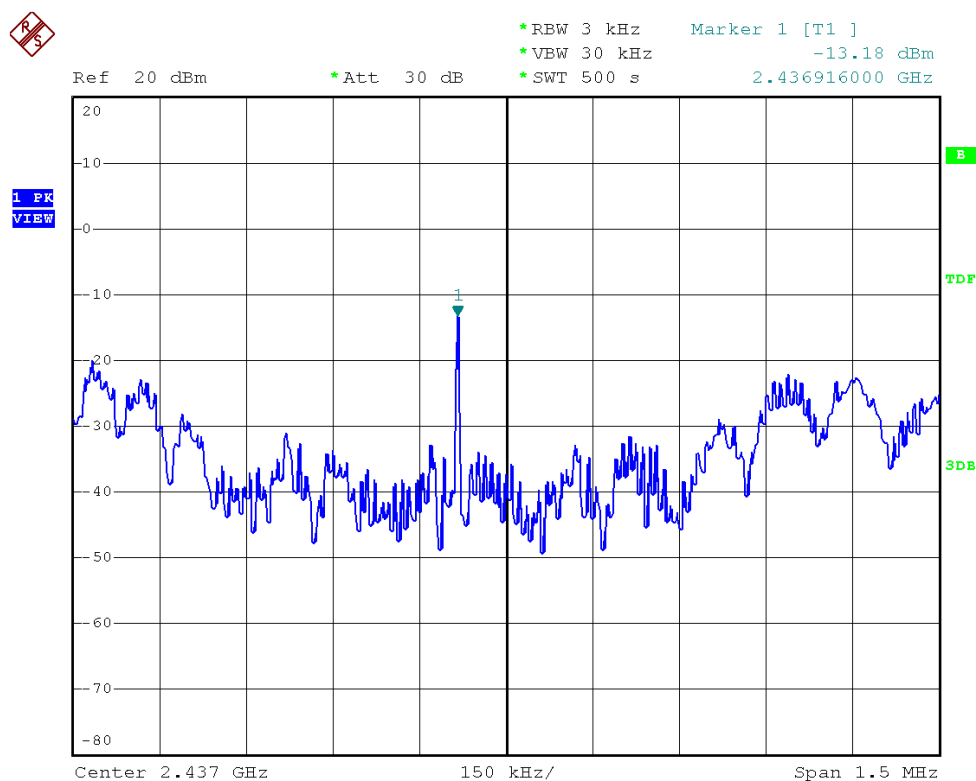


Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 03

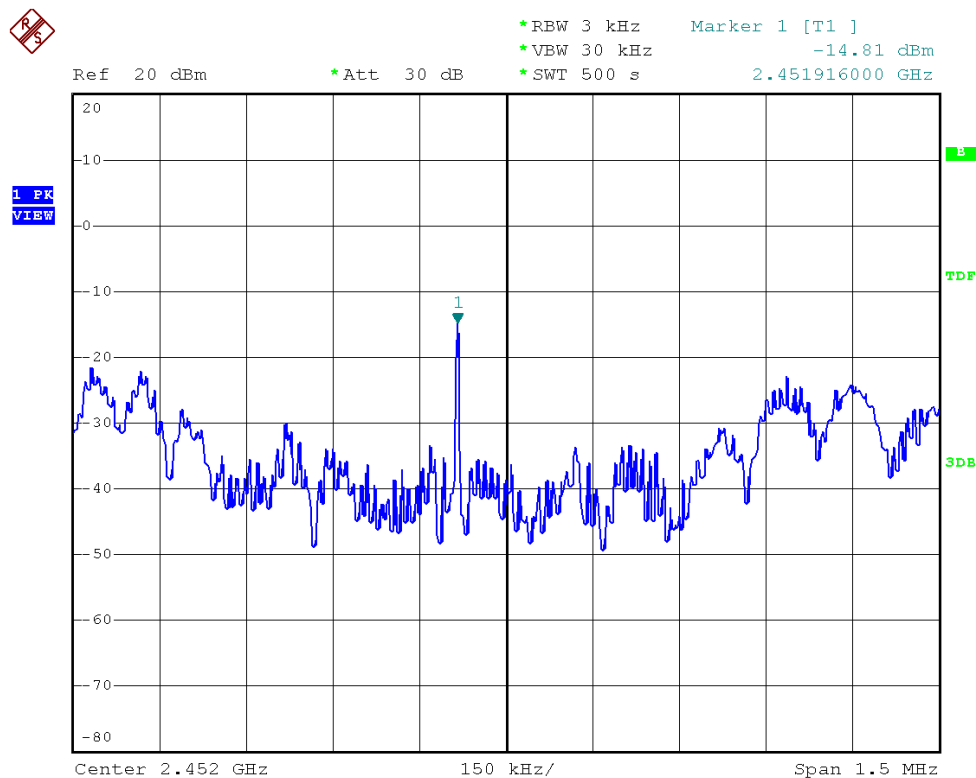




Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 06



Modulation Standard: 802.11n HT40 (270Mbps), ANT L
Channel: 09





10. 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

10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.