



FCC TEST REPORT

According to

FCC Rules and Regulations Part 15 Subpart C

Applicant : VideoHome Technology Corp.

Address : 4F-1, NO. 190/192, SEC. 3, DATONG RD.,
XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN

Equipment : AV2Pad-WiFi

Model No. : VVIN3589

Trade Name : VideoHome

FCC ID : WIJVVINWIFI89

- 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.



Contents

1. Report of Measurements and Examinations	6
1.1 List of Measurements and Examinations	6
2. Test Configuration of Equipment under Test.....	7
2.1 Feature of Equipment under Test.....	7
2.2 Carrier Frequency of Channels	7
2.3 Test Mode and Test Software	8
2.4 Description of Test System.....	9
2.5 Connection Diagram of Test System.....	9
2.6 General Information of Test.....	10
2.7 Measurement Uncertainty	10
3. Antenna Requirements.....	11
3.1 Standard Applicable	11
3.2 Antenna Construction and Directional Gain.....	11
4. Test of Conducted Emission.....	12
4.1 Test Limit	12
4.2 Test Procedures	12
4.3 Typical Test Setup	13
4.4 Measurement Equipment.....	13
4.5 Test Result and Data	14
4.6 Test Photographs	20
5. Test of Radiated Emission	21
5.1 Test Limit	21
5.2 Test Procedures	21
5.3 Typical Test Setup	22
5.4 Measurement Equipment.....	22
5.1 Test Result and Data (9kHz ~ 30MHz).....	23
5.2 Test Result and Data (30MHz ~ 1GHz).....	23
5.3 Test Result and Data (Above 1GHz)	35
5.4 Test Photographs (30MHz~1GHz)	59
5.5 Test Photographs (Above 1GHz)	60
6. 6dB Bandwidth Measurement Data.....	61
6.1 Test Limit	61
6.2 Test Procedures	61
6.3 Test Setup Layout	61
6.4 Measurement Equipment.....	61
6.5 Test Result and Data	62
7. Maximum Peak and Average Output Power.....	69
7.1 Test Limit	69
7.2 Test Procedures	69
7.3 Test Setup Layout	69
7.4 Measurement Equipment.....	69
7.5 Test Result and Data	70
8. Power Spectral Density	71



8.1	Test Limit	71
8.2	Test Procedures	71
8.3	Test Setup Layout	71
8.4	Measurement Equipment.....	71
8.5	Test Result and Data.....	71
9.	Band Edges Measurement.....	78
9.1	Test Limit	78
9.2	Test Procedure	78
9.3	Test Setup Layout	78
9.4	Measurement Equipment.....	78
9.5	Test Result and Data.....	78
9.6	Restrict Band Emission Measurement Data	87
10.	Restricted Bands of Operation	89
10.1	Labeling Requirement.....	89
Appendix A. Photographs of EUT.....		A1 ~ A2

**History of this test report****■ ORIGINAL.** Additional attachment as following record:

Attachment No.	Issue Date	Description



CERTIFICATE OF COMPLIANCE

According to

FCC Rules and Regulations Part 15 Subpart C

Applicant : VideoHome Technology Corp.

Address : 4F-1, NO. 190/192, SEC. 3, DATONG RD.,
XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN

Equipment : AV2Pad-WiFi

Model No. : VVIN3589

FCC ID : WIJVVINWIFI89

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 2009, KDB558074 & KDB662911** The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2010)**. The test was carried out on Aug. 26, 2013 at Cerpass Technology Corp.

Approved by:

Hill Chen
EMC/RF B.U. Assistant Manager

Tested by:

Tom Tai
Engineer



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

Standards	IEEE802.11b/g & 802.11n (1T1R mode)
Operating Frequency	USA: 2.412GHz ~ 2.462GHz (channel 1-11) ISM band Europe: 2.412GHz ~ 2.472GHz (channel 1-13) ISM band
Protocols	802.11b: CCK, QPSK, BPSK, 802.11g/n: OFDM
Antenna	Dipole Antenna Gain: 2.89dBi
Security	WPA/WP2, 64/128/152-bit WEP, WPS
Transmit Output Power (Typical)	11b: 21±1.0dBm @11Mbps 11g:16±1dBm @54Mbps 11n(HT20): -71dBm@MSC7 11n(HT40): -68dBm@MSC7
Operating Voltage	5.0VDC ± 5%
Operating Current	<180mA at 5.0V DC input
Bus Interface	USB 2.0/ USB 1.1
USB Interface	5-pin, 2.0mm pitch male jumper
Antenna Impedance	50 ohm

2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT 20

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, HT 40

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

Note: Channels marked * are selected to perform test.



2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Notebook, Mouse, Printer and EUT for RF test.
- c. An executive program "QATEST" under WIN XP was executed to keep transmitting and receiving data via Wireless.
- d. Power output of data rate

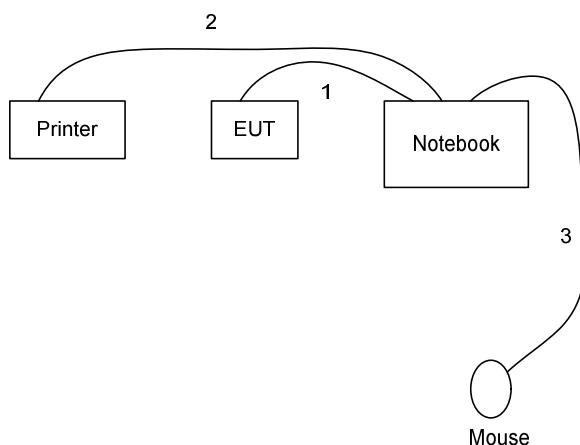
802.11b		802.11g		802.11n HT20		802.11n HT40	
Data Rate (Mbps)	Power output (dBm)						
11	20.36	54	16.75	130/15	---	270/15	---
5.5	20.25	48	16.67	117/14	---	243/14	---
2	20.21	36	16.73	104/13	---	216/13	---
1	20.17	24	16.70	78/12	---	162/12	---
---	---	18	16.70	52/11	---	108/11	---
---	---	12	16.71	39/10	---	81/10	---
---	---	9	16.74	26/9	---	54/9	---
---	---	6	16.67	13/8	---	27/8	---
---	---	---	---	65/7	16.28	135/7	16.48
---	---	---	---	58.5/6	16.27	121.5/6	16.41
---	---	---	---	52/5	16.21	108/5	16.45
---	---	---	---	39/4	16.25	81/4	16.46
---	---	---	---	26/3	16.19	54/3	16.44
---	---	---	---	19.5/2	16.19	40.5/2	16.47
---	---	---	---	13/1	16.11	27/1	16.40
---	---	---	---	6.5/0	16.12	13.5/0	16.43



2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Notebook	DELL	INSPIRON 510m	Power Cable, Non-Shielded, 1.8m
Mouse	Logitech	OF-2854	PS2 Cable, Shielded, 1.85m
Printer	HP	D2660	Power Cable, Non-Shielded, 1.8m USB Cable, Shielded, 1.6m

2.5 Connection Diagram of Test System



1. The USB cable is connected from Notebook to the EUT.
2. The USB cable is connected from Notebook to the Printer.
3. The PS2 cable is connected from Notebook to the Mouse.



2.6 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 (OATS2-SD) :	No.68-1, Shihbachongsi, Shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number :	TW1049, TW1061, 488071, 390316
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number :	T-1173 for Telecommunication Test C-4139 for Conducted emission test R-3428 for Radiated emission test G-97 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 40,000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.
Laboratory Accreditation	 Testing Laboratory 1439

2.7 Measurement Uncertainty

Measurement Item	Uncertainty
Radiated emission	±4.11dB
Peak Output Power(conducted)	±1.38dB
Peak Output Power(Radiated)	±1.70dB
Power Spectral Density	±1.39dB
Radiated emission(3m)	±4.11dB
Radiated emission(10m)	±3.89dB



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 Type: Dipole Antenna

Antenna Gain: 2.89 dBi

Cable Loss: 0.1dB

Note: The antenna was soldered to the RF module.



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

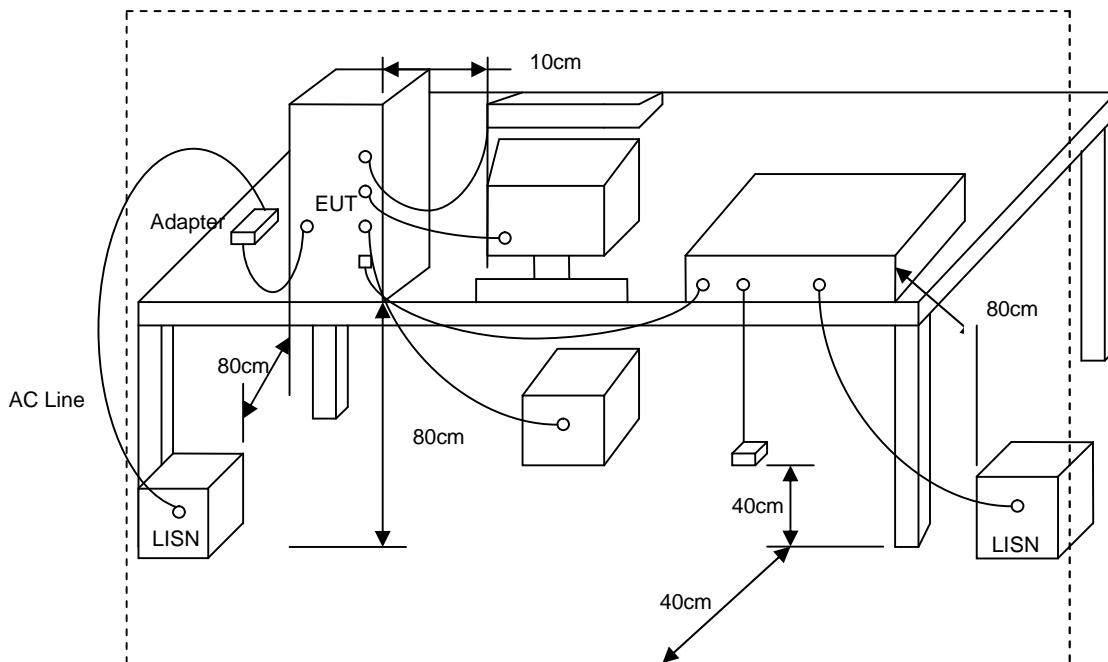
*Decreases with the logarithm of the frequency.

4.2 Test Procedures

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



4.3 Typical Test Setup



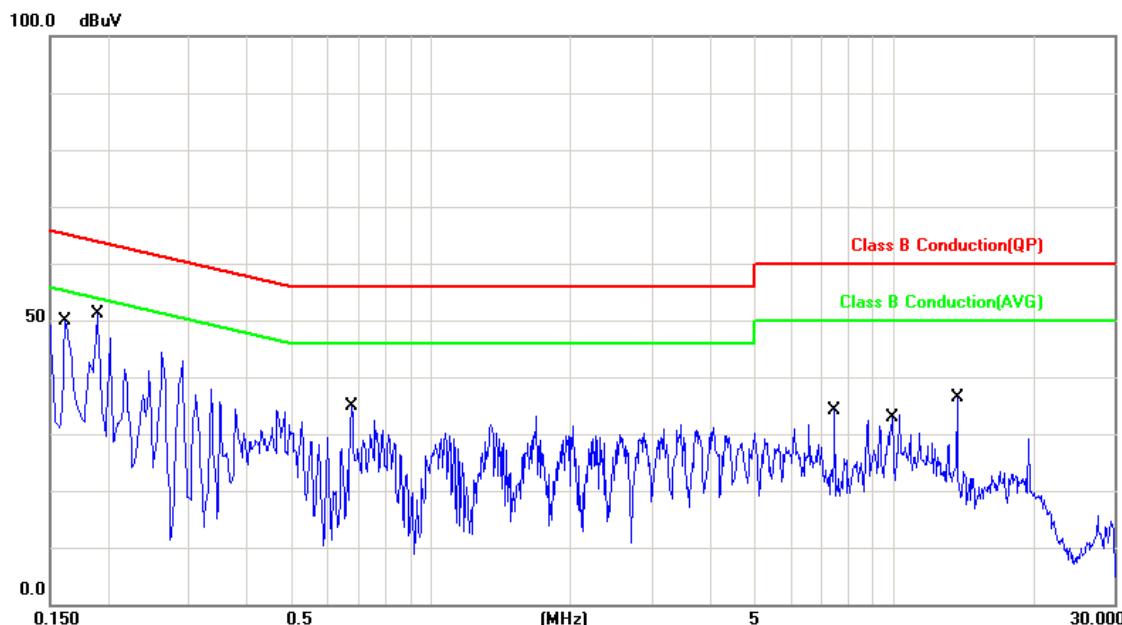
4.4 Measurement Equipment

Instrument/ Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100821	2012/12/24	2013/12/23
LISN	Schwarzbeck	NSLK 8127	8127-516	2013/03/08	2014/03/07
LISN	Rolf Heine	NNB-2/16Z	8127-568	2012/08/31	2013/08/30
Attenuator	HAMEG	HZ560	-----	2013/03/07	2014/03/06



4.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Test Date	: Aug. 26, 2013	Humidity	: 45 %



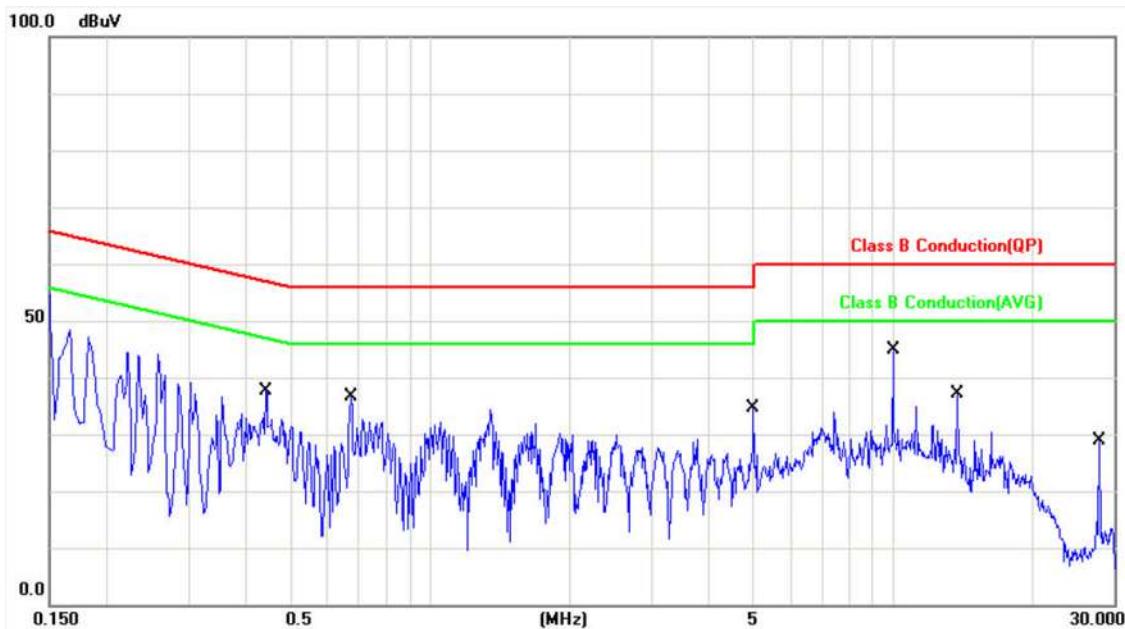
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1620	0.12	46.52	46.64	65.36	-18.72	QP	P
2	0.1620	0.12	43.43	43.55	55.36	-11.81	AVG	P
3	0.1900	0.12	46.15	46.27	64.03	-17.76	QP	P
4	0.1900	0.12	36.49	36.61	54.03	-17.42	AVG	P
5	0.6740	0.15	34.74	34.89	56.00	-21.11	QP	P
6	0.6740	0.15	33.32	33.47	46.00	-12.53	AVG	P
7	7.4820	0.48	30.77	31.25	60.00	-28.75	QP	P
8	7.4820	0.48	15.15	15.63	50.00	-34.37	AVG	P
9	9.9140	0.58	18.85	19.43	60.00	-40.57	QP	P
10	9.9140	0.58	9.25	9.83	50.00	-40.17	AVG	P
11	13.7140	0.74	28.76	29.50	60.00	-30.50	QP	P
12	13.7140	0.74	14.22	14.96	50.00	-35.04	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Test Date	: Aug. 26, 2013	Humidity	: 45 %



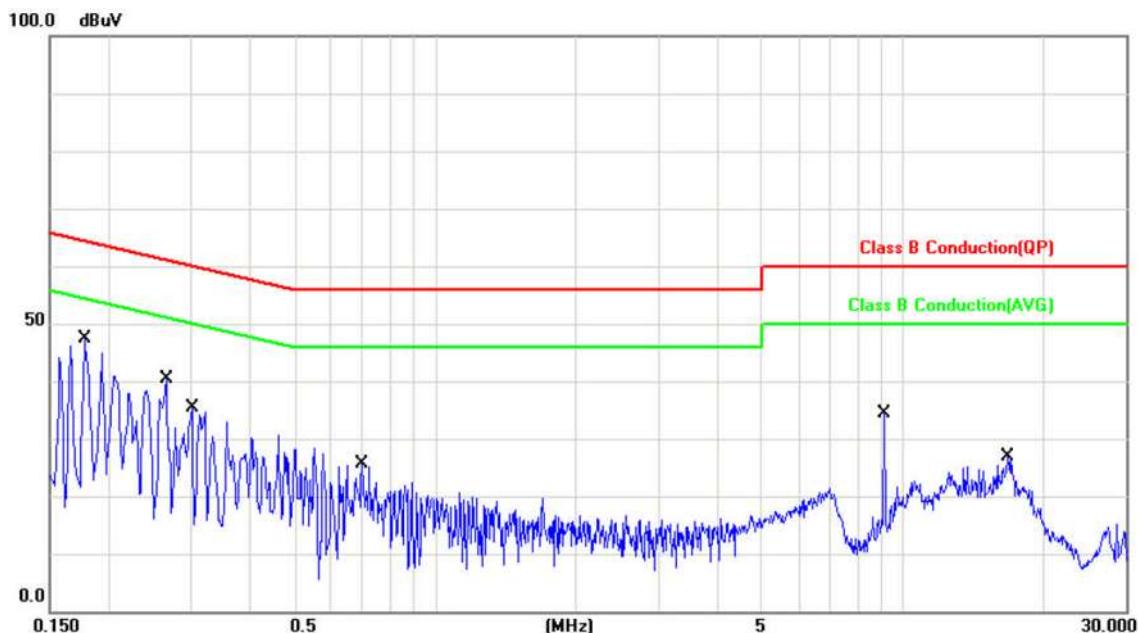
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4420	0.13	32.23	32.36	57.02	-24.66	QP	P
2	0.4420	0.13	22.61	22.74	47.02	-24.28	AVG	P
3	0.6740	0.15	36.79	36.94	56.00	-19.06	QP	P
4	0.6740	0.15	33.47	33.62	46.00	-12.38	AVG	P
5	5.0020	0.39	28.62	29.01	60.00	-30.99	QP	P
6	5.0020	0.39	23.48	23.87	50.00	-26.13	AVG	P
7	10.0020	0.58	40.83	41.41	60.00	-18.59	QP	P
8	10.0020	0.58	28.26	28.84	50.00	-21.16	AVG	P
9	13.7540	0.74	22.42	23.16	60.00	-36.84	QP	P
10	13.7540	0.74	19.24	19.98	50.00	-30.02	AVG	P
11	27.9580	1.28	9.84	11.12	60.00	-48.88	QP	P
12	27.9580	1.28	4.27	5.55	50.00	-44.45	AVG	P

Note: Level = Reading + Factor

Margin = Level - Limit



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 25 °C
Test Date	: Aug. 26, 2013	Humidity	: 45 %

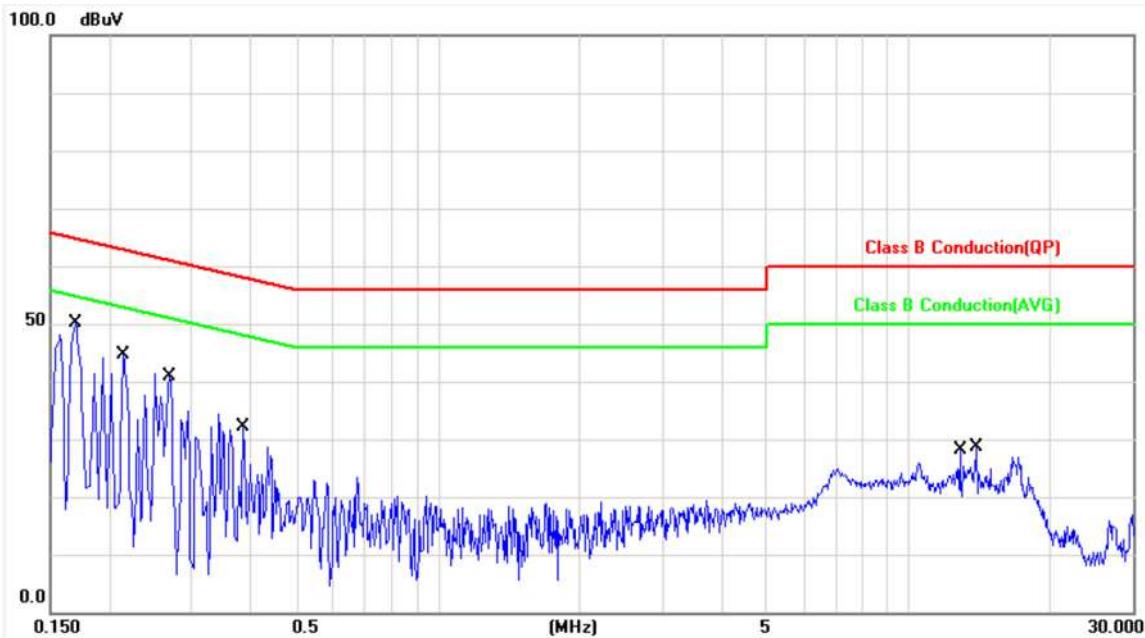


No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1780	0.12	40.33	40.45	64.57	-24.12	QP	P
2	0.1780	0.12	23.65	23.77	54.57	-30.80	AVG	P
3	0.2660	0.12	42.79	42.91	61.24	-18.33	QP	P
4	0.2660	0.12	36.61	36.73	51.24	-14.51	AVG	P
5	0.3020	0.12	28.39	28.51	60.19	-31.68	QP	P
6	0.3020	0.12	15.74	15.86	50.19	-34.33	AVG	P
7	0.6980	0.16	26.51	26.67	56.00	-29.33	QP	P
8	0.6980	0.16	20.22	20.38	46.00	-25.62	AVG	P
9	9.1220	0.55	15.73	16.28	60.00	-43.72	QP	P
10	9.1220	0.55	10.55	11.10	50.00	-38.90	AVG	P
11	16.7860	0.86	21.42	22.28	60.00	-37.72	QP	P
12	16.7860	0.86	15.33	16.19	50.00	-33.81	AVG	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 25 °C
Test Date	: Aug. 26, 2013	Humidity	: 45 %

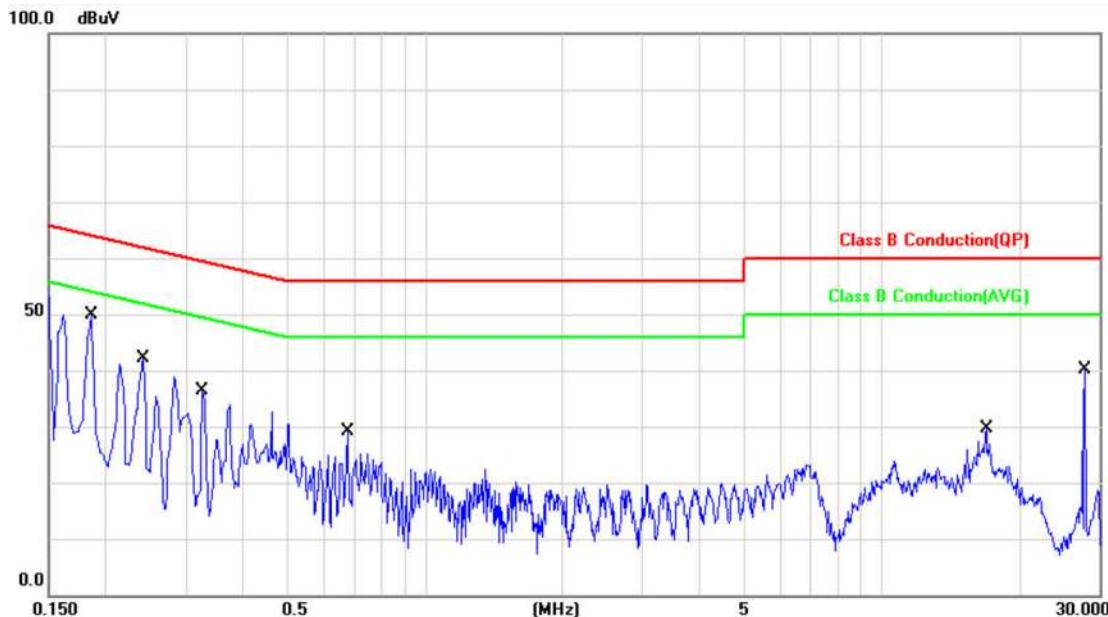


No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1700	0.12	48.38	48.50	64.96	-16.46	QP	P
2	0.1700	0.12	32.43	32.55	54.96	-22.41	AVG	P
3	0.2140	0.12	40.58	40.70	63.04	-22.34	QP	P
4	0.2140	0.12	28.19	28.31	53.04	-24.73	AVG	P
5	0.2700	0.12	35.67	35.79	61.12	-25.33	QP	P
6	0.2700	0.12	22.25	22.37	51.12	-28.75	AVG	P
7	0.3860	0.13	26.34	26.47	58.15	-31.68	QP	P
8	0.3860	0.13	19.61	19.74	48.15	-28.41	AVG	P
9	12.8940	0.70	19.42	20.12	60.00	-39.88	QP	P
10	12.8940	0.70	14.77	15.47	50.00	-34.53	AVG	P
11	13.9580	0.74	19.26	20.00	60.00	-40.00	QP	P
12	13.9580	0.74	14.75	15.49	50.00	-34.51	AVG	P

Note: Level = Reading + Factor
Margin = Level - Limit



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 25 °C
Test Date	: Aug. 26, 2013	Humidity	: 45 %



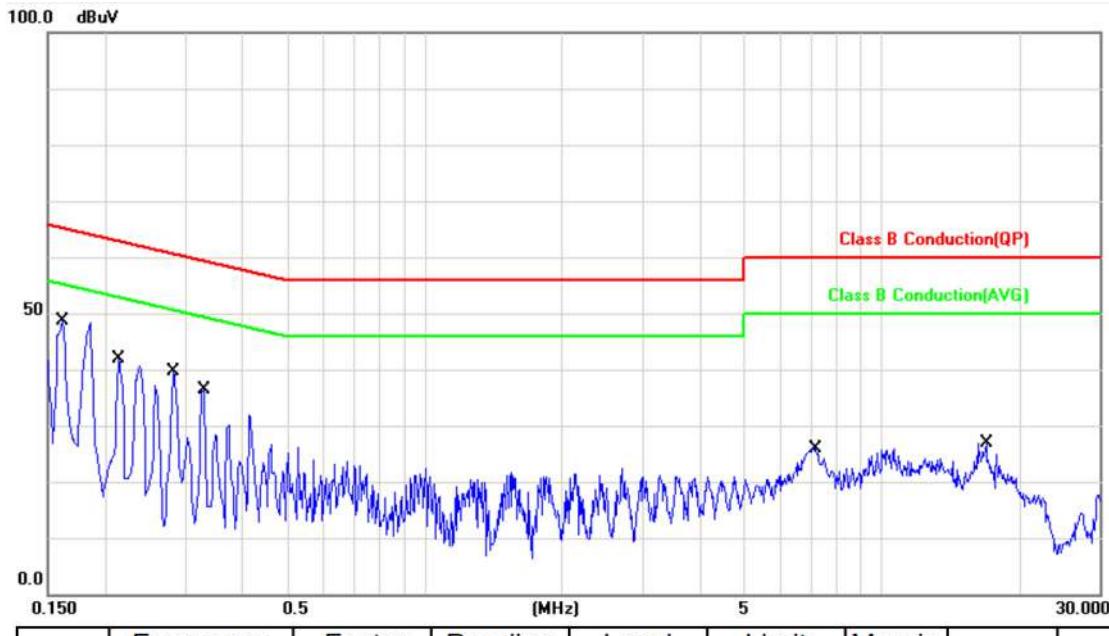
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1860	0.12	45.85	45.97	64.21	-18.24	QP	P
2	0.1860	0.12	33.32	33.44	54.21	-20.77	AVG	P
3	0.2420	0.12	36.74	36.86	62.02	-25.16	QP	P
4	0.2420	0.12	22.16	22.28	52.02	-29.74	AVG	P
5	0.3260	0.12	32.82	32.94	59.55	-26.61	QP	P
6	0.3260	0.12	19.43	19.55	49.55	-30.00	AVG	P
7	0.6780	0.15	26.19	26.34	56.00	-29.66	QP	P
8	0.6780	0.15	25.82	25.97	46.00	-20.03	AVG	P
9	16.9740	0.87	22.27	23.14	60.00	-36.86	QP	P
10	16.9740	0.87	17.31	18.18	50.00	-31.82	AVG	P
11	27.9580	1.28	18.96	20.24	60.00	-39.76	QP	P
12	27.9580	1.28	14.41	15.69	50.00	-34.31	AVG	P

Note: Level = Reading + Factor

Margin = Level - Limit



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 25 °C
Test Date	: Aug. 26, 2013	Humidity	: 45 %



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1620	0.12	48.48	48.60	65.36	-16.76	QP	P
2	0.1620	0.12	35.22	35.34	55.36	-20.02	AVG	P
3	0.2140	0.12	40.76	40.88	63.04	-22.16	QP	P
4	0.2140	0.12	25.32	25.44	53.04	-27.60	AVG	P
5	0.2819	0.12	36.84	36.96	60.76	-23.80	QP	P
6	0.2819	0.12	28.47	28.59	50.76	-22.17	AVG	P
7	0.3300	0.12	29.38	29.50	59.45	-29.95	QP	P
8	0.3300	0.12	18.59	18.71	49.45	-30.74	AVG	P
9	7.2100	0.47	24.68	25.15	60.00	-34.85	QP	P
10	7.2100	0.47	22.26	22.73	50.00	-27.27	AVG	P
11	16.9740	0.87	20.77	21.64	60.00	-38.36	QP	P
12	16.9740	0.87	15.82	16.69	50.00	-33.31	AVG	P

Note: Level = Reading + Factor

Margin = Level - Limit



5. Test of Radiated Emission

5.1 Test Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dB_{uV}/m at 3m). For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dB_{uV}/m at 3m). In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

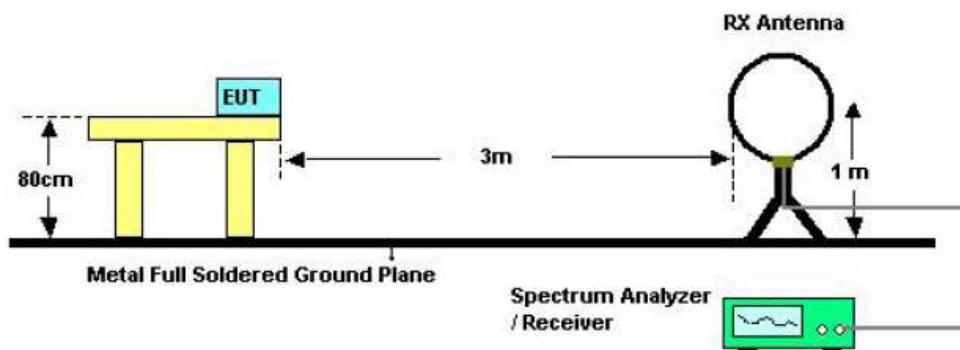
5.2 Test Procedures

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

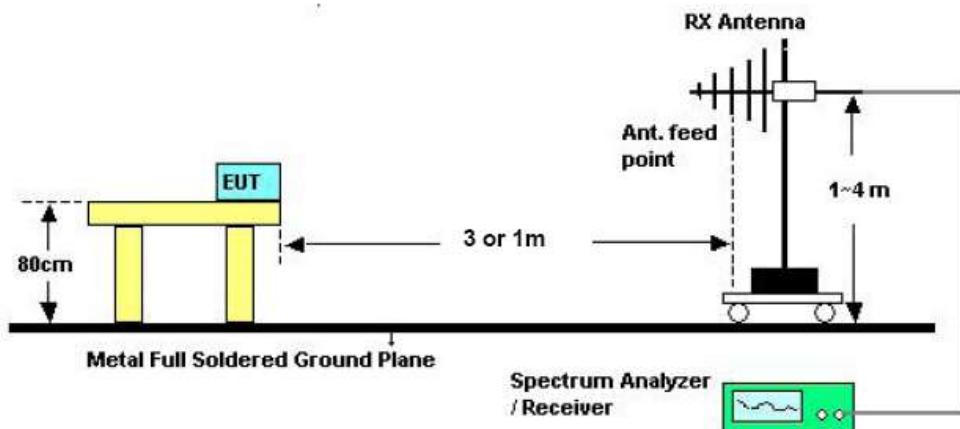


5.3 Typical Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB);
Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

5.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100443	2013/01/15	2014/01/14
Bilog Antenna	Schwarzbeck	VULB 9168	369	2013/03/06	2014/03/05
Amplifier	QuieTek	AP/0100A	CHM0906075	2013/01/15	2014/01/14
SPECTRUM ANALYZER	R&S	FSP40	100219	2012/09/13	2013/09/12
HORN ANTENNA	EMCO	3115	31601	2012/09/13	2013/09/12
PREAMPLIFIER	EMC	EMC012635	980029	2012/09/12	2013/09/11

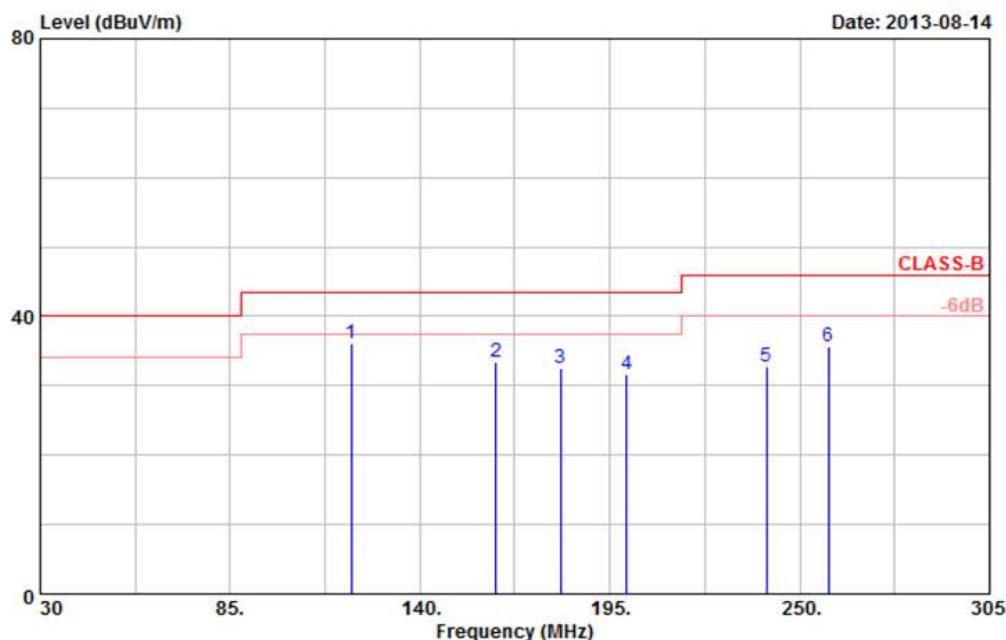


5.1 Test Result and Data (9kHz ~ 30MHz)

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

5.2 Test Result and Data (30MHz ~ 1GHz)

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 48 %



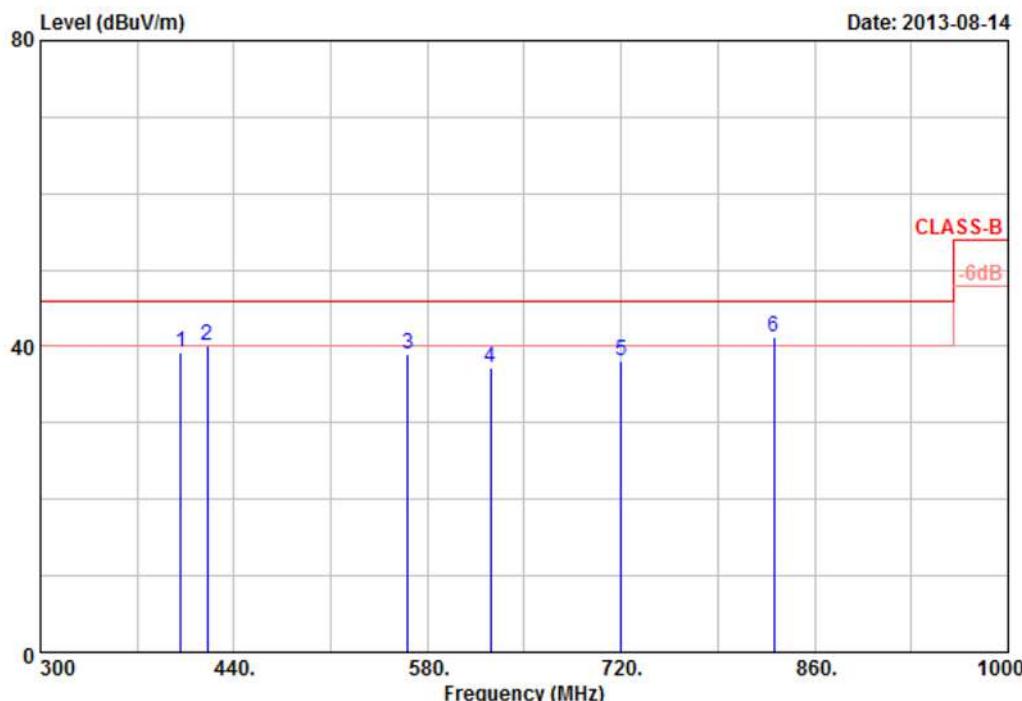
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	120.20	40.67	-4.66	36.01	43.50	-7.49	Peak	100	360
2	162.00	43.75	-10.23	33.52	43.50	-9.98	Peak	100	360
3	180.70	38.75	-6.16	32.59	43.50	-10.91	Peak	100	360
4	199.95	42.96	-11.42	31.54	43.50	-11.96	Peak	100	360
5	240.38	42.16	-9.51	32.65	46.00	-13.35	Peak	100	360
6	258.25	43.68	-7.95	35.73	46.00	-10.27	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. All below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 1 :	802.11g, CH1	Temperature :	26 °C
Memo :		Humidity :	48 %



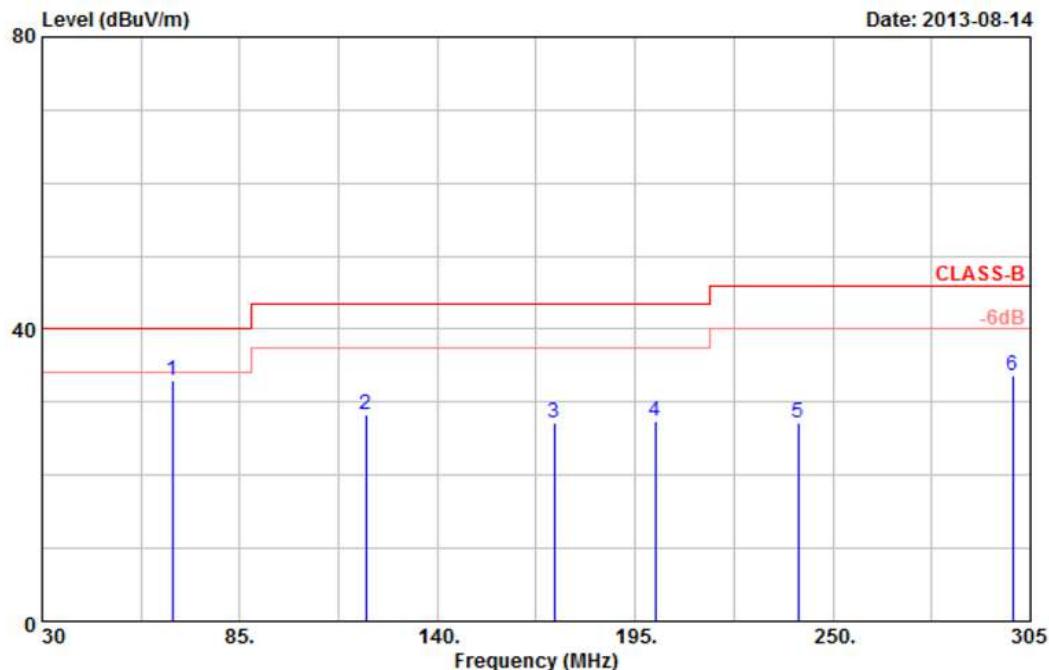
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	401.50	44.81	-5.54	39.27	46.00	-6.73	Peak	100	0
2	420.40	45.63	-5.52	40.11	46.00	-5.89	QP	100	0
3	566.00	32.12	6.78	38.90	46.00	-7.10	QP	100	0
4	625.50	36.60	0.57	37.17	46.00	-8.83	Peak	100	0
5	720.00	31.65	6.41	38.06	46.00	-7.94	QP	100	0
6	830.60	34.02	7.18	41.20	46.00	-4.80	QP	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11g, CH1	Temperature	:	26 °C
Memo	:		Humidity	:	48 %



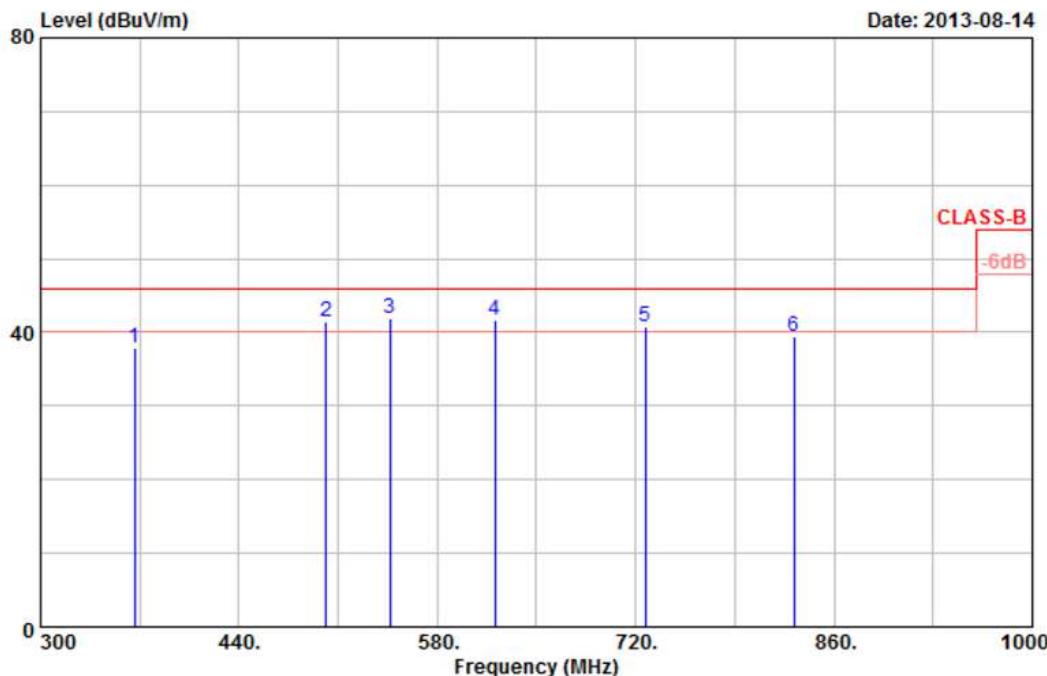
Item	Freq	Read						Ant	Tab
		Value	Factor	Result	Limit	Margin	Remark		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg
1	66.30	53.01	-19.96	33.05	40.00	-6.95	Peak	100	360
2	120.20	46.49	-18.22	28.27	43.50	-15.23	Peak	100	360
3	172.45	41.63	-14.38	27.25	43.50	-16.25	Peak	100	360
4	200.50	46.03	-18.72	27.31	43.50	-16.19	Peak	100	360
5	240.38	41.15	-13.99	27.16	46.00	-18.84	Peak	100	360
6	300.05	45.67	-12.08	33.59	46.00	-12.41	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 1 :	802.11g, CH1	Temperature :	26 °C
Memo :		Humidity :	48 %



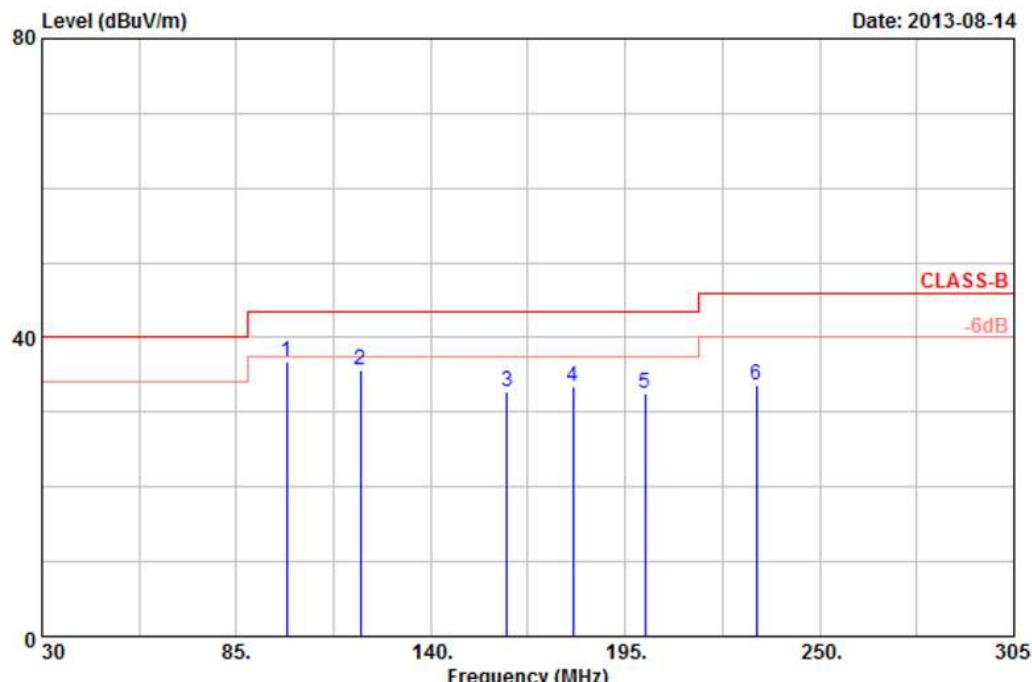
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	366.50	49.45	-11.46	37.99	46.00	-8.01	Peak	100	0
2	501.60	41.39	0.10	41.49	46.00	-4.51	QP	100	0
3	546.40	38.93	2.88	41.81	46.00	-4.19	Peak	100	0
4	620.60	37.54	4.06	41.60	46.00	-4.40	Peak	100	0
5	727.00	36.90	3.77	40.67	46.00	-5.33	Peak	100	0
6	832.00	30.68	8.70	39.38	46.00	-6.62	QP	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 48 %



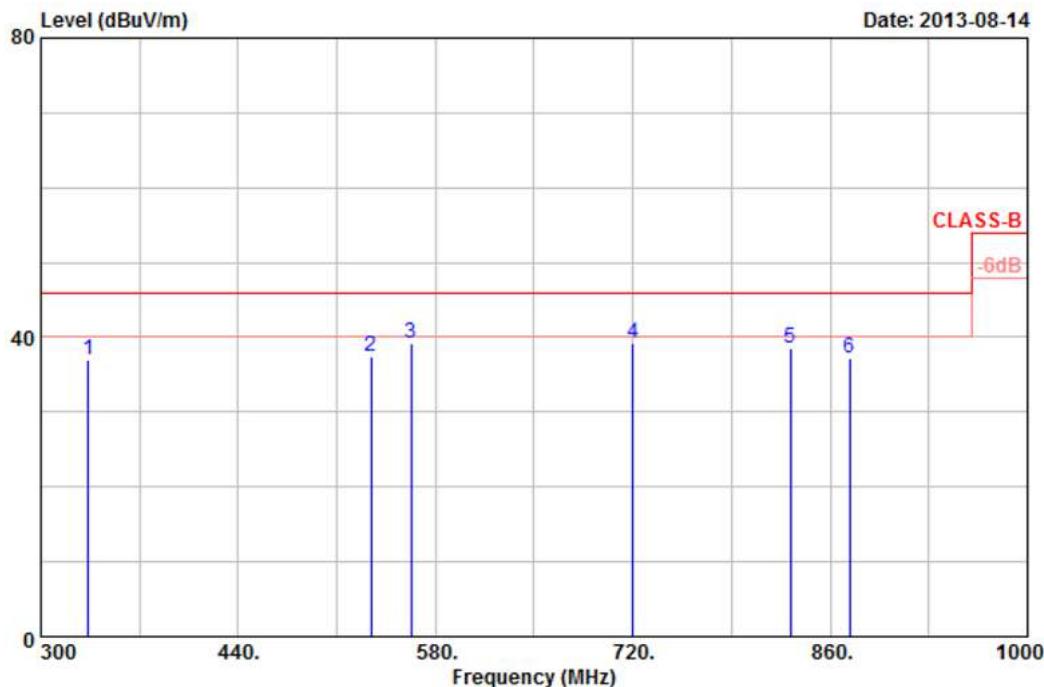
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	99.30	45.68	-8.82	36.86	43.50	-6.64	Peak	100	360
2	120.20	40.34	-4.66	35.68	43.50	-7.82	Peak	100	360
3	161.45	43.10	-10.40	32.70	43.50	-10.80	Peak	100	360
4	180.15	38.62	-5.15	33.47	43.50	-10.03	Peak	100	360
5	200.50	44.03	-11.43	32.60	43.50	-10.90	Peak	100	360
6	232.13	41.59	-7.84	33.75	46.00	-12.25	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 48 %



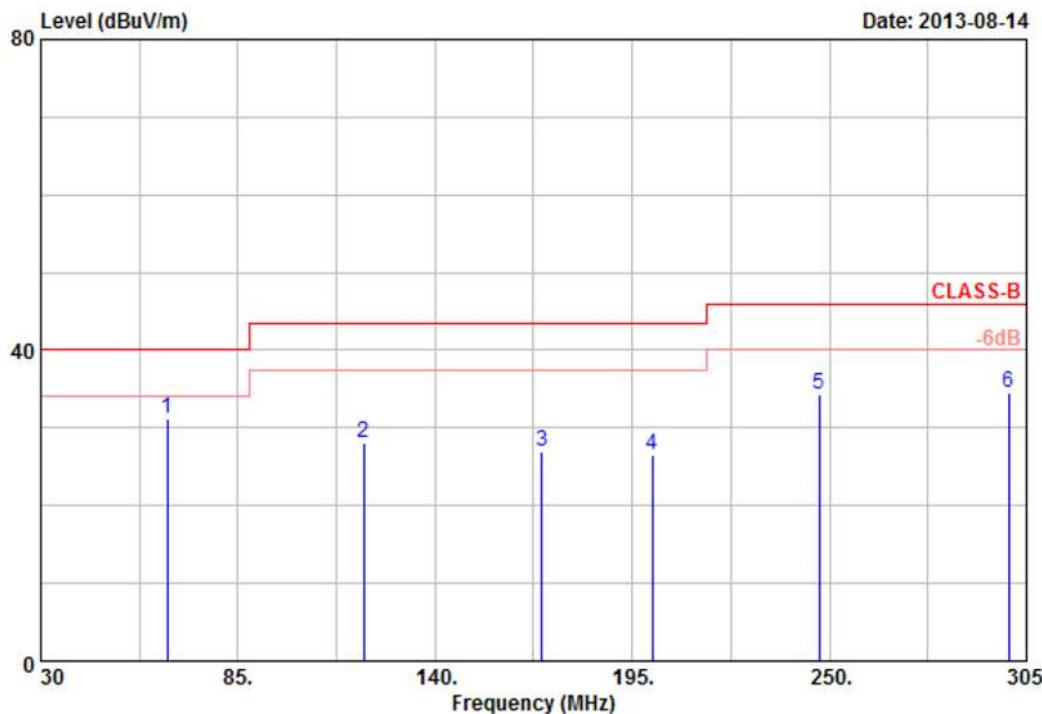
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	333.60	44.75	-7.67	37.08	46.00	-8.92	Peak	100	0
2	534.50	34.16	3.30	37.46	46.00	-8.54	Peak	100	0
3	562.50	32.32	6.82	39.14	46.00	-6.86	QP	100	0
4	720.00	32.82	6.41	39.23	46.00	-6.77	QP	100	0
5	832.00	31.13	7.49	38.62	46.00	-7.38	QP	100	0
6	874.00	27.77	9.47	37.24	46.00	-8.76	QP	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo		Humidity	: 48 %



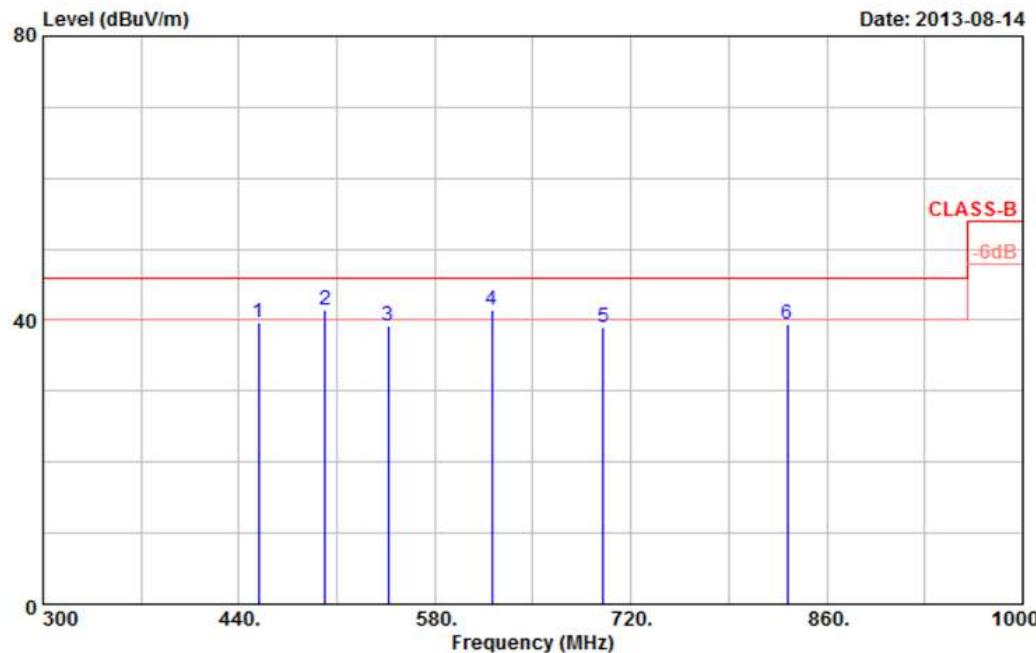
Item	Freq	Read			Limit	Margin	Remark	Ant	Tab
		Value	Factor	Result				Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	65.20	50.68	-19.39	31.29	40.00	-8.71	Peak	100	360
2	120.20	46.21	-18.22	27.99	43.50	-15.51	Peak	100	360
3	169.70	38.26	-11.27	26.99	43.50	-16.51	Peak	100	360
4	200.50	45.19	-18.72	26.47	43.50	-17.03	Peak	100	360
5	247.25	47.63	-13.40	34.23	46.00	-11.77	Peak	100	360
6	300.05	46.57	-12.08	34.49	46.00	-11.51	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 2 :	802.11n HT20, CH1	Temperature :	26 °C
Memo :		Humidity :	48 %



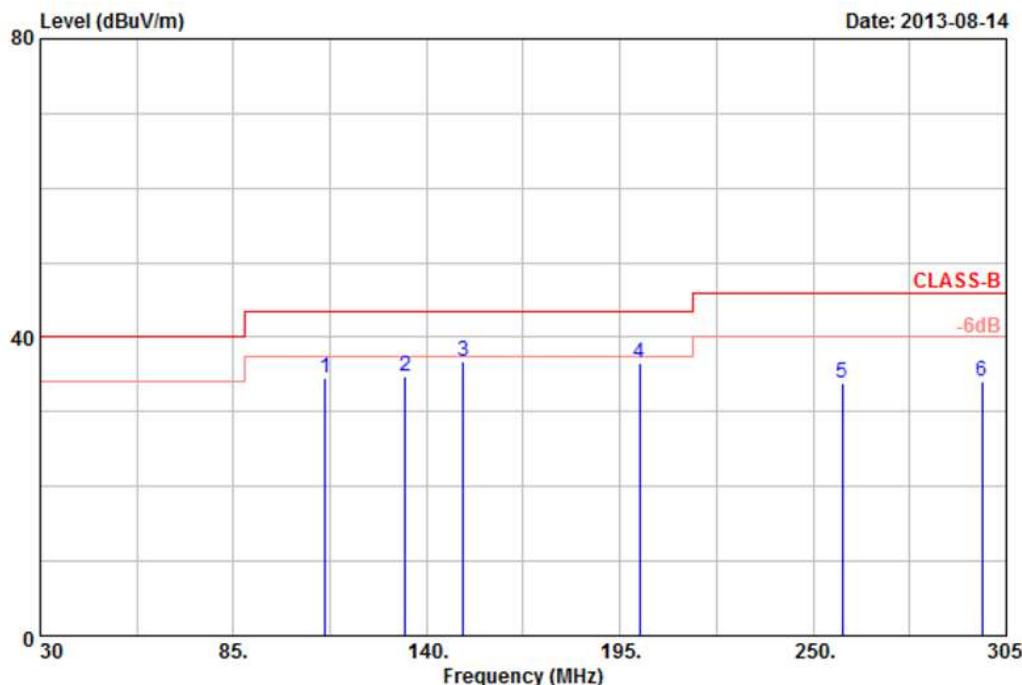
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	454.00	44.30	-4.67	39.63	46.00	-6.37	Peak	100	0
2	501.60	41.30	0.10	41.40	46.00	-4.60	QP	100	0
3	546.40	36.39	2.88	39.27	46.00	-6.73	QP	100	0
4	620.60	37.28	4.06	41.34	46.00	-4.66	Peak	100	0
5	700.40	36.88	2.19	39.07	46.00	-6.93	Peak	100	0
6	832.00	30.81	8.70	39.51	46.00	-6.49	QP	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 26 °C
Memo	:	Humidity	: 48 %



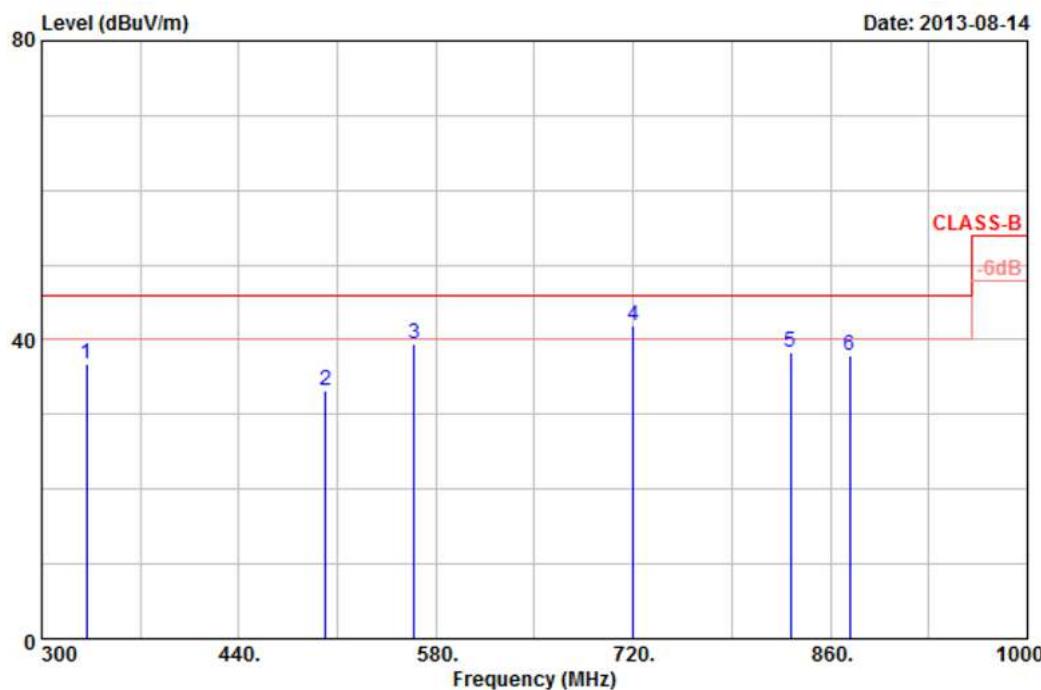
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	111.13	41.67	-7.07	34.60	43.50	-8.90	QP	100	360
2	133.95	41.23	-6.56	34.67	43.50	-8.83	QP	100	360
3	150.45	48.22	-11.44	36.78	43.50	-6.72	QP	100	360
4	200.50	47.97	-11.43	36.54	43.50	-6.96	QP	100	360
5	258.25	41.93	-7.95	33.98	46.00	-12.02	Peak	100	360
6	298.13	42.91	-8.92	33.99	46.00	-12.01	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 26 °C
Memo	:	Humidity	: 48 %



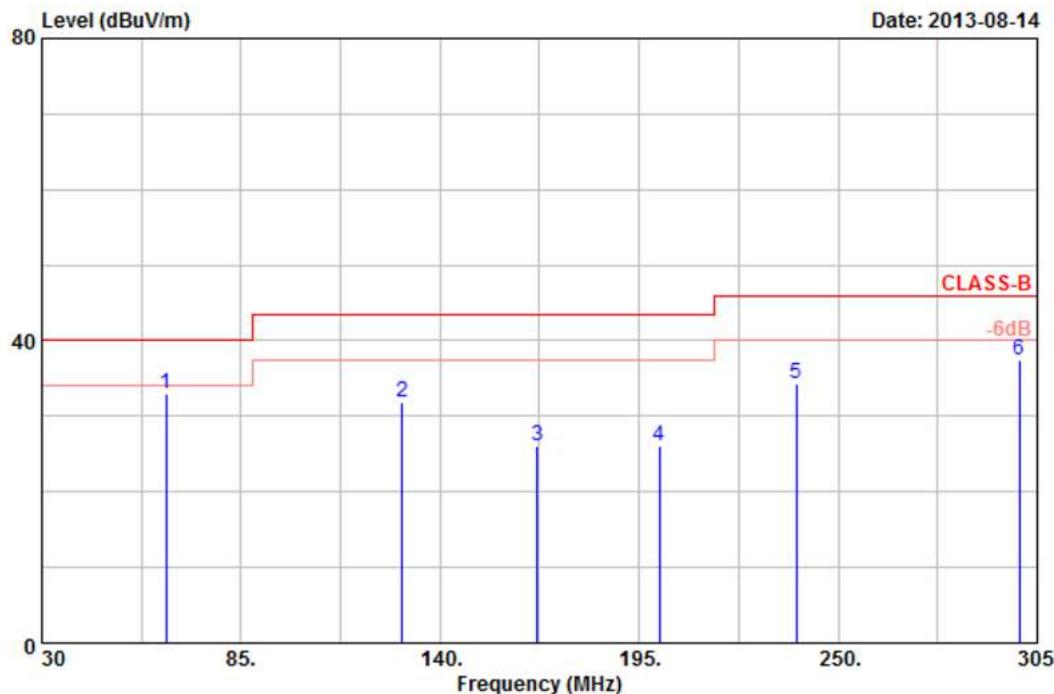
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	331.50	44.44	-7.64	36.80	46.00	-9.20	Peak	100	0
2	501.60	38.16	-4.99	33.17	46.00	-12.83	Peak	100	0
3	564.60	32.75	6.59	39.34	46.00	-6.66	QP	100	0
4	720.00	35.46	6.41	41.87	46.00	-4.13	Peak	100	0
5	832.00	30.83	7.49	38.32	46.00	-7.68	QP	100	0
6	874.00	28.44	9.47	37.91	46.00	-8.09	QP	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 26 °C
Memo	:	Humidity	: 48 %



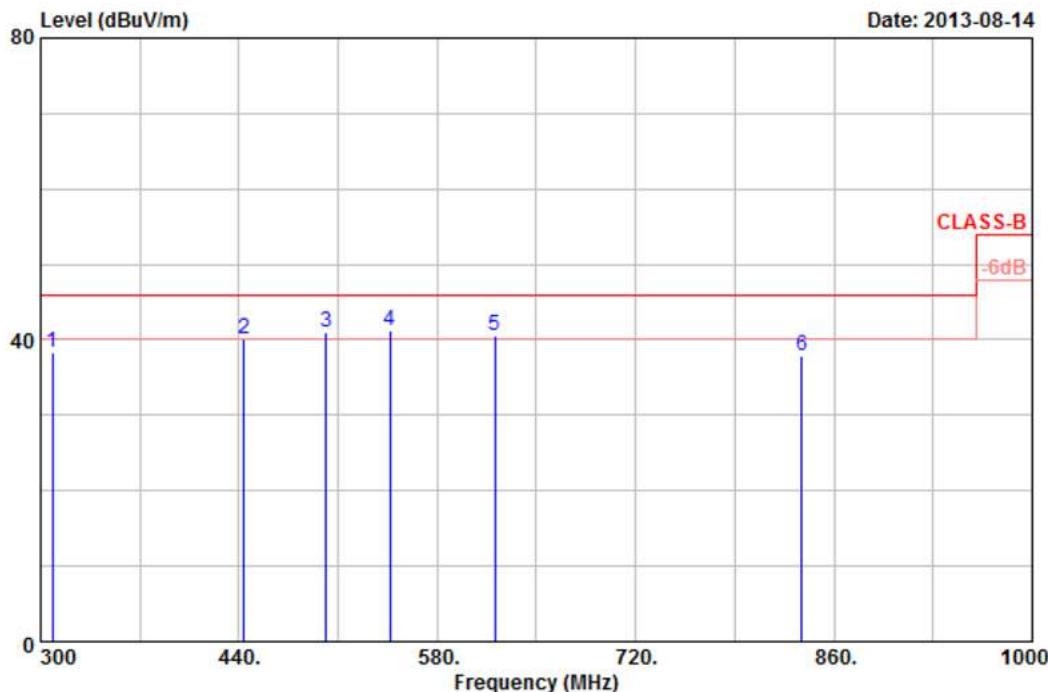
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	64.38	52.11	-19.04	33.07	40.00	-6.93	Peak	100	360
2	129.55	49.60	-17.67	31.93	43.50	-11.57	Peak	100	360
3	166.95	40.26	-14.28	25.98	43.50	-17.52	Peak	100	360
4	200.50	44.77	-18.72	26.05	43.50	-17.45	Peak	100	360
5	238.45	48.43	-14.19	34.24	46.00	-11.76	Peak	100	360
6	300.05	49.53	-12.08	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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 3 :	802.11n HT40, CH3	Temperature :	26 °C
Memo :		Humidity :	48 %



Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	308.40	50.82	-12.38	38.44	46.00	-7.56	QP	100	0
2	443.50	45.62	-5.56	40.06	46.00	-5.94	Peak	100	0
3	501.60	41.01	0.10	41.11	46.00	-4.89	QP	100	0
4	546.40	38.32	2.88	41.20	46.00	-4.80	Peak	100	0
5	620.60	36.55	4.06	40.61	46.00	-5.39	Peak	100	0
6	837.60	29.02	8.75	37.77	46.00	-8.23	QP	100	0

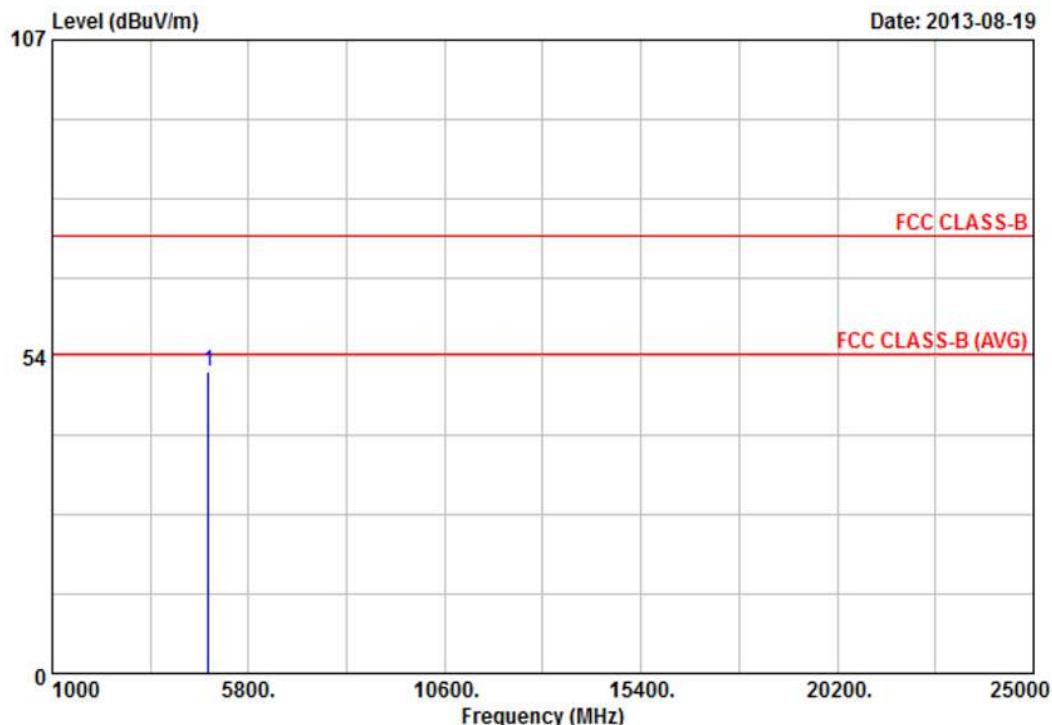
Notes:

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 below 1GHz configurations are pretested among available 802.11b/g/n modes and found that the worst cases are on channel 1 of 802.11g & n20 mode and Channel 3 for n40 mode. Only worst case data concluded above were presented in this test report.
5. The data is worse case.



5.3 Test Result and Data (Above 1GHz)

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



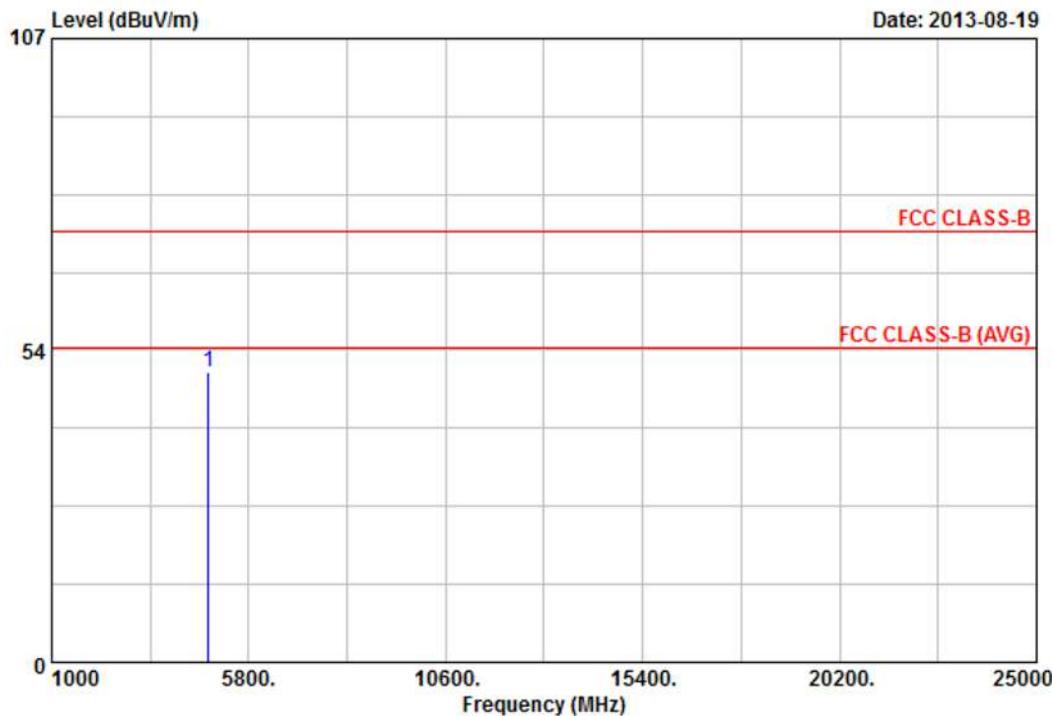
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.08	42.13	8.84	50.97	74.00	-23.03	Peak	100	0

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	: 802.11b, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



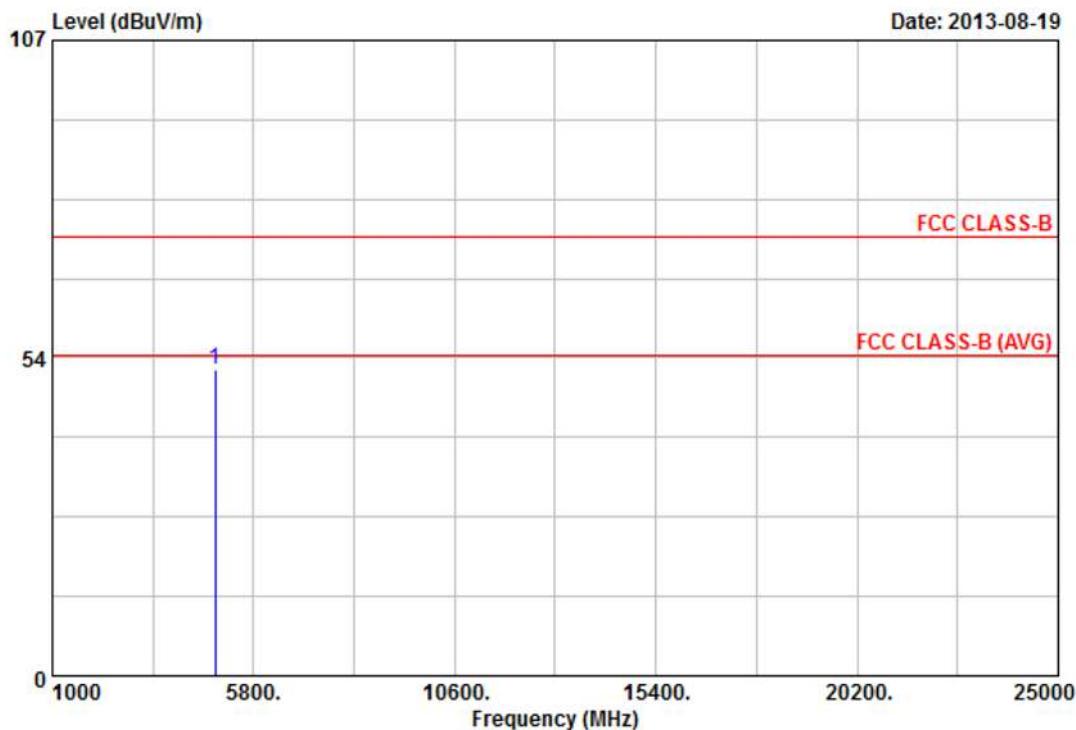
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
1	4823.93	40.94	8.84	49.78	74.00	-24.22	Peak	100	0

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	: 802.11b, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



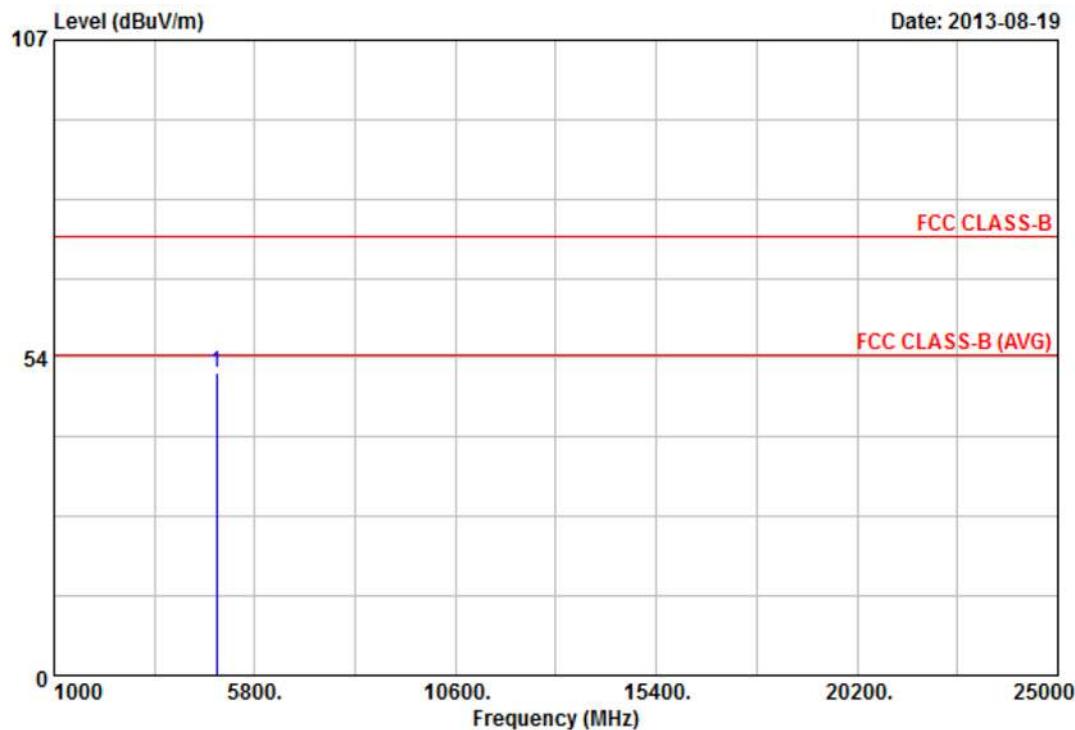
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4874.37	42.41	9.03	51.44	74.00	-22.56	Peak	100	0

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	: 802.11b, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



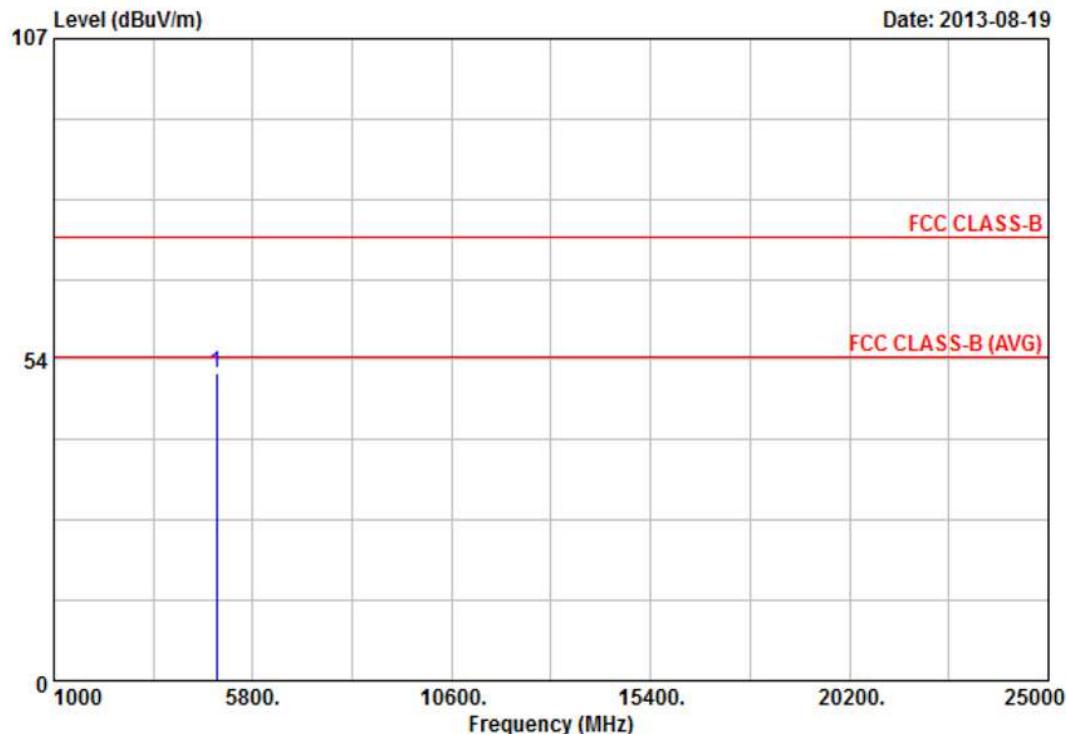
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4873.66	41.79	9.03	50.82	74.00	-23.18	Peak	100	0

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 1	: 802.11b, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



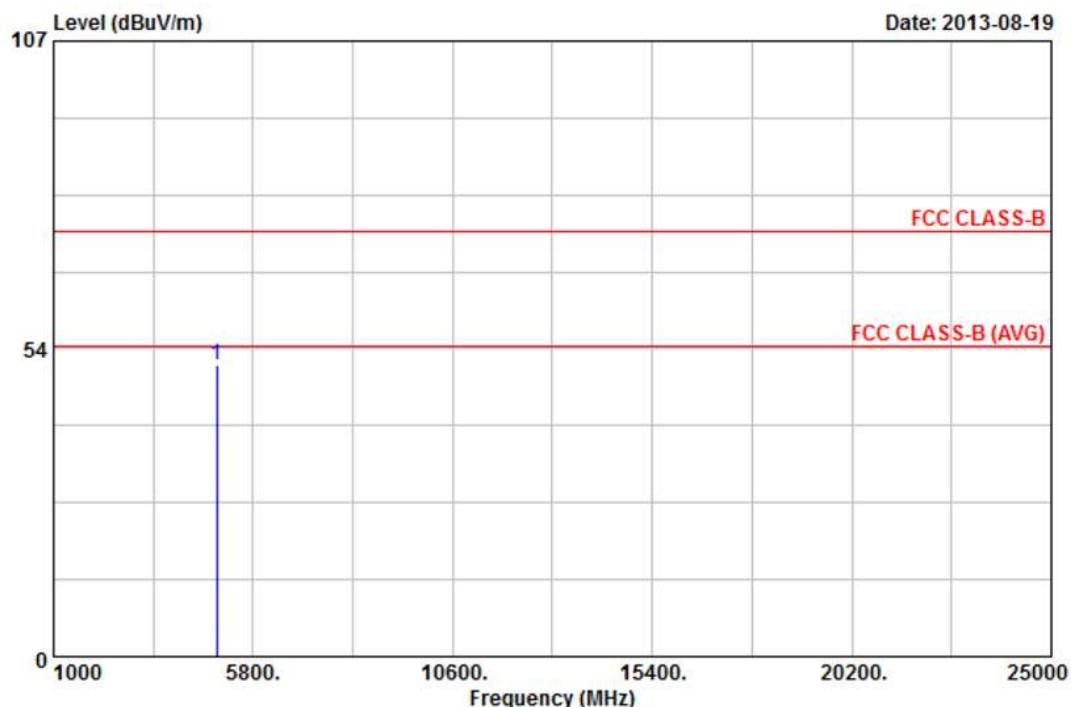
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4923.98	41.98	9.21	51.19	74.00	-22.81	Peak	100	0

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	: 802.11b, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 47 %

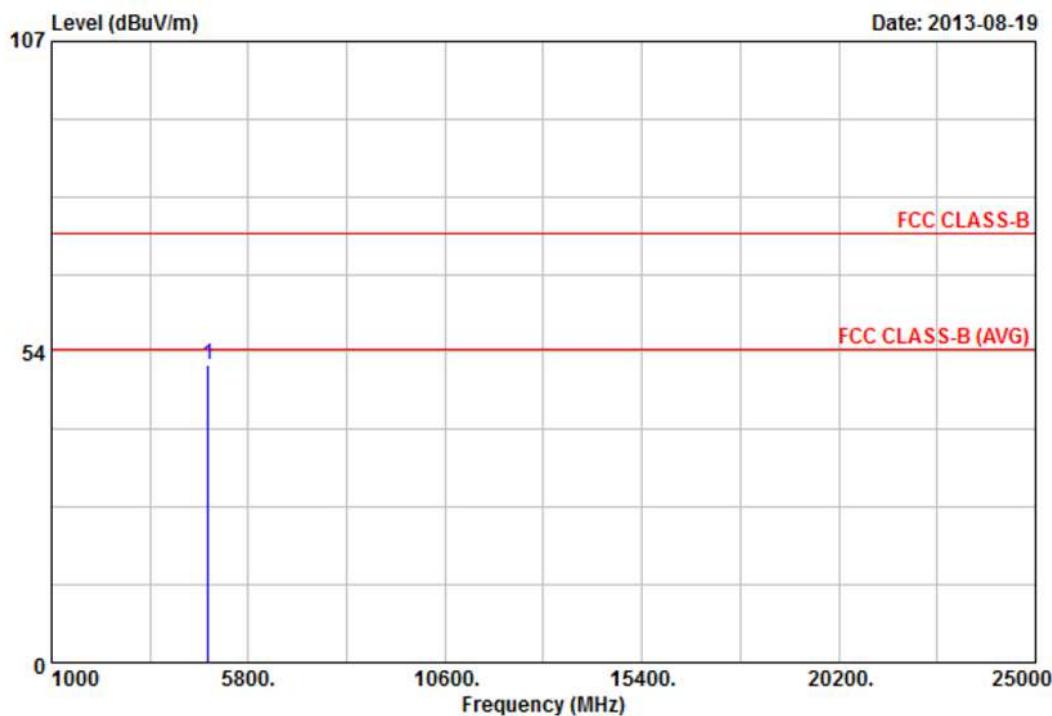


Notes:

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	: 802.11g, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



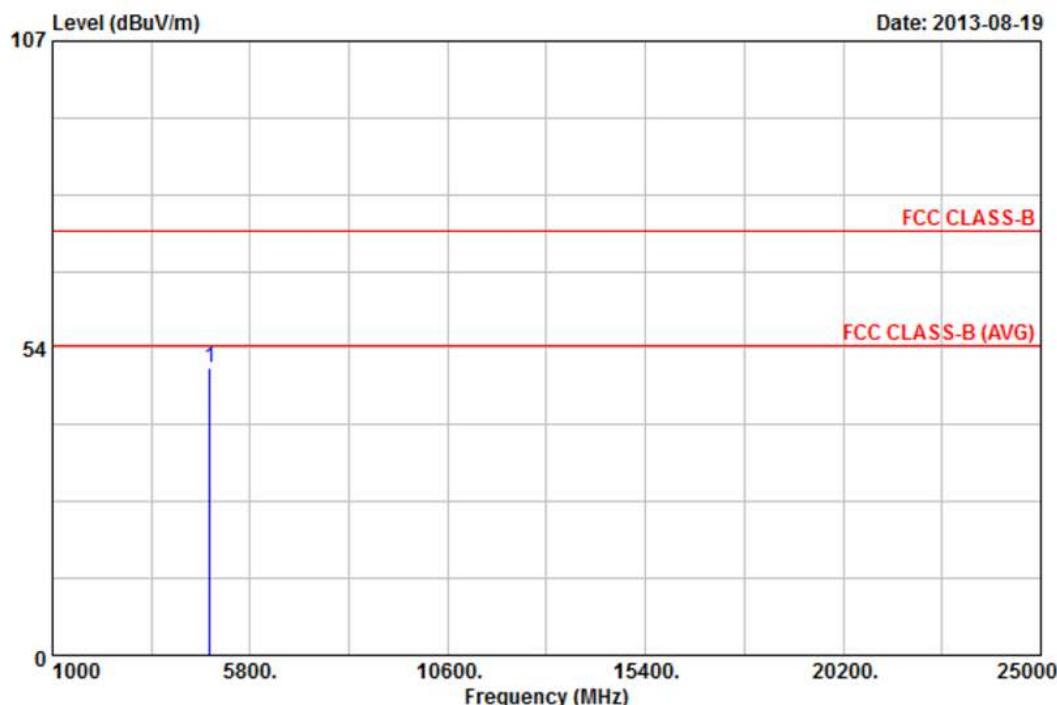
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.65	42.35	8.84	51.19	74.00	-22.81	Peak	100	0

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	: 802.11g, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



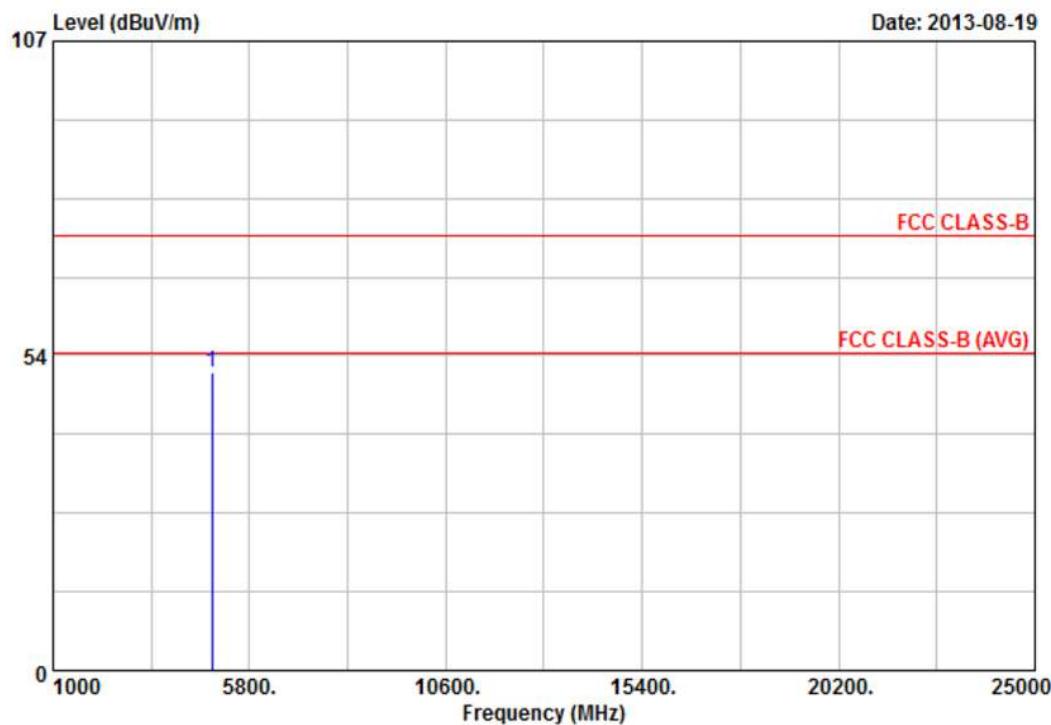
Item	Read Freq	Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.81	41.37	8.84	50.21	74.00	-23.79	Peak	100	0

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	: 802.11g, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



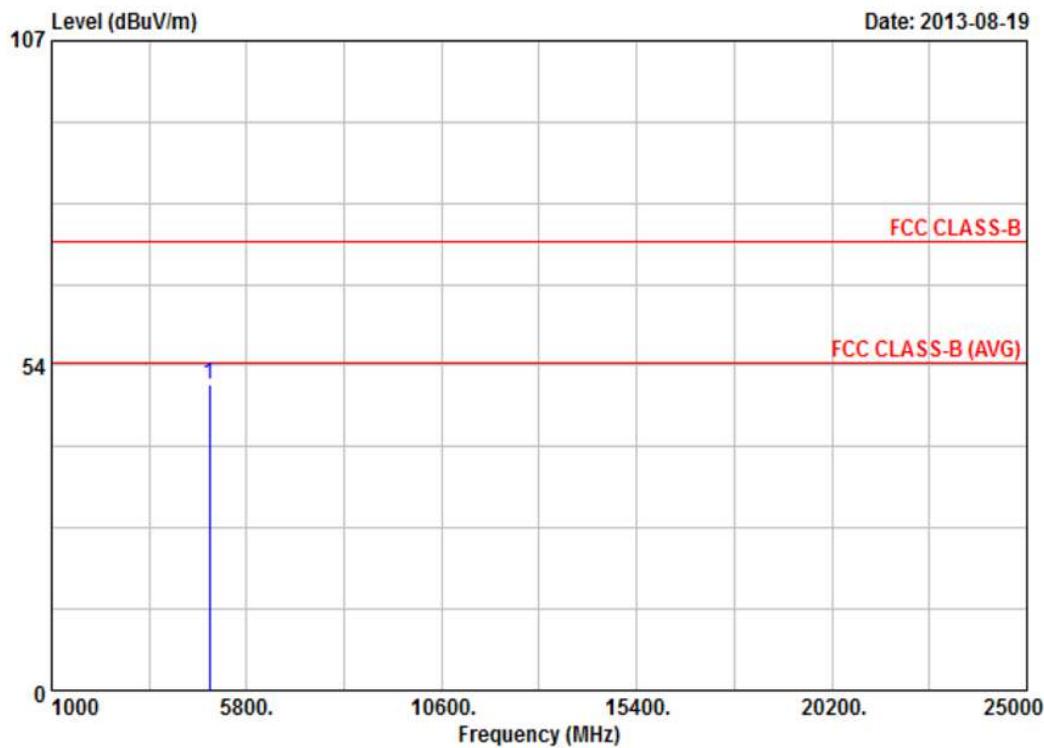
Item	Freq	Read		Result	Limit	Margin	Remark	Ant Pos	Tab Pos
		Value	Factor						
1	4873.64	41.61	9.03	50.64	74.00	-23.36	Peak	100	0

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	: 802.11g, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



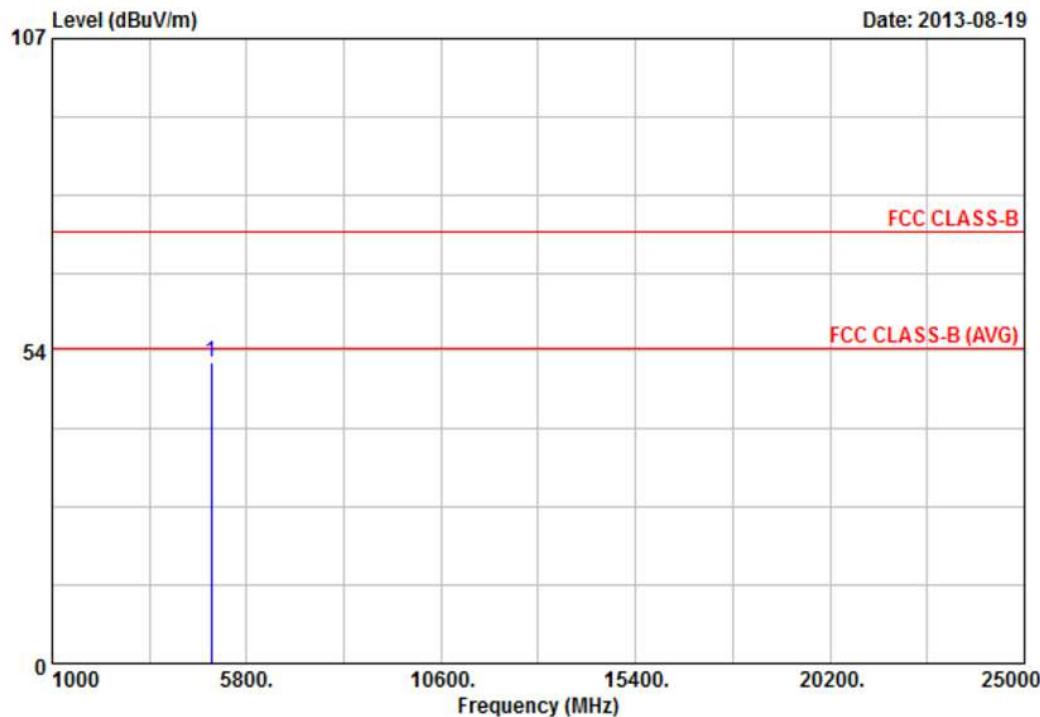
Item	Freq	Read			Margin	Remark	Ant Pos	Tab Pos
		Value	Factor	Result				
1	4873.52	41.46	9.03	50.49	74.00	-23.51	Peak	100 0

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	:	802.11g, CH11	Temperature	:	26 °C
Memo	:		Humidity	:	47 %



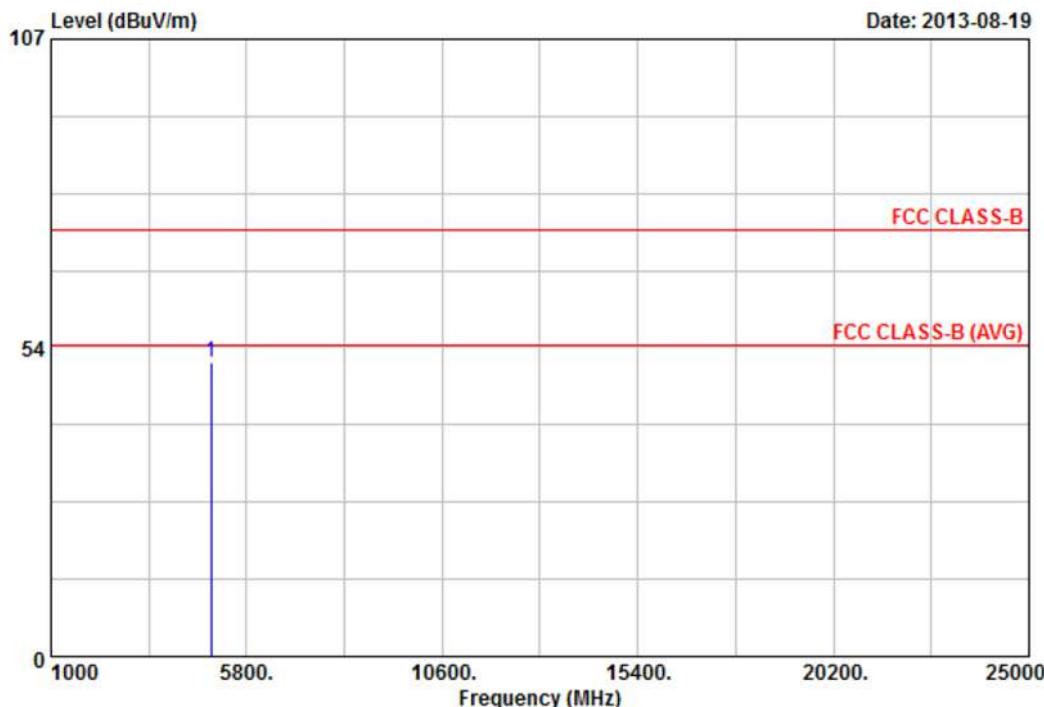
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.64	42.43	9.21	51.64	74.00	-22.36	Peak	100	0

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	: 802.11g, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 47 %

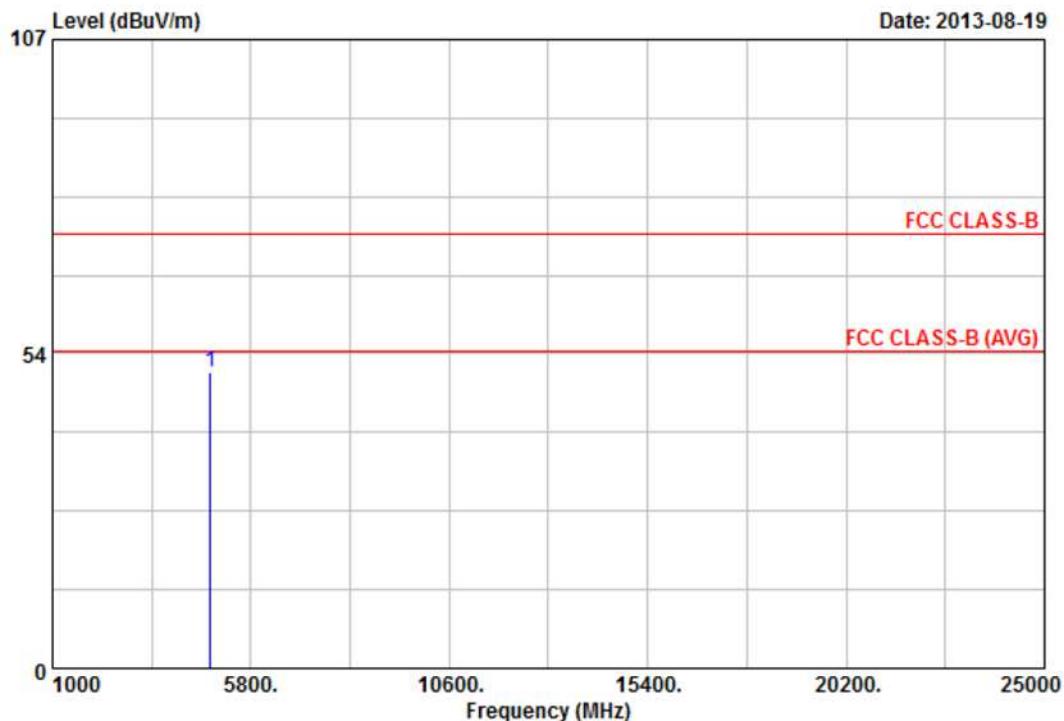


Notes:

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	:	802.11n HT20, CH1	Temperature	:	26 °C
Memo	:		Humidity	:	47 %



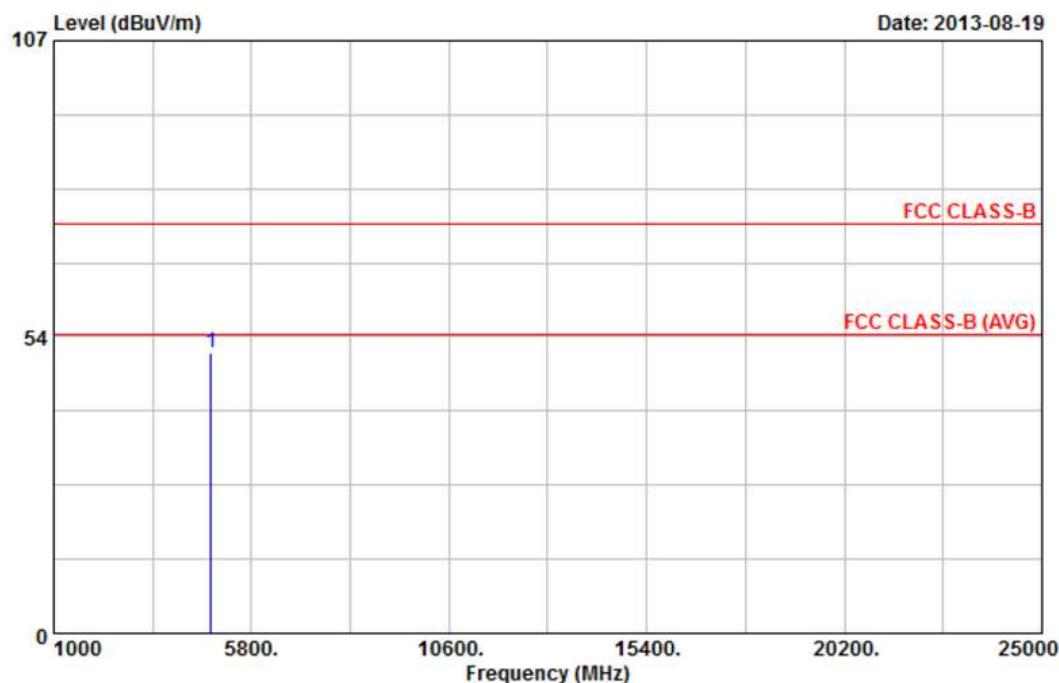
Item	Freq	Read			Limit	Margin	Remark	Ant	Tab
		Value	Factor	Result				Pos	Pos
1	4823.75	41.64	8.84	50.48	74.00	-23.52	Peak	100	0

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	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



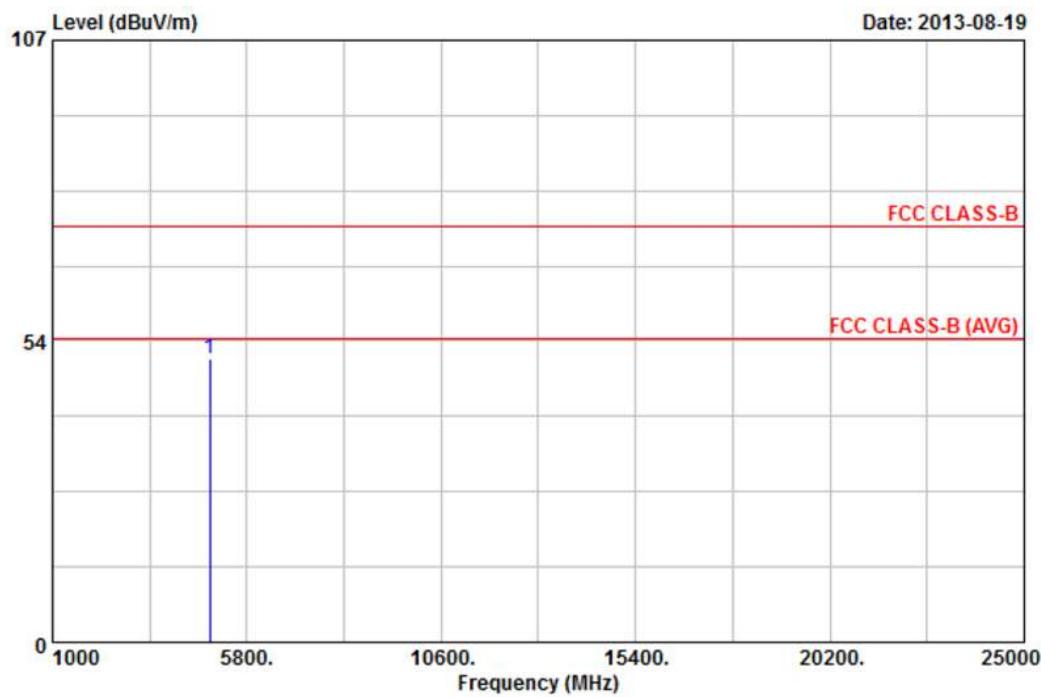
Item	Freq	Read	Factor	Result	Limit	Margin	Remark	Ant	Tab
		Value						cm	Deg
1	4824.29	41.77	8.84	50.61	74.00	-23.39	Peak	100	0

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	: 802.11n HT20, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



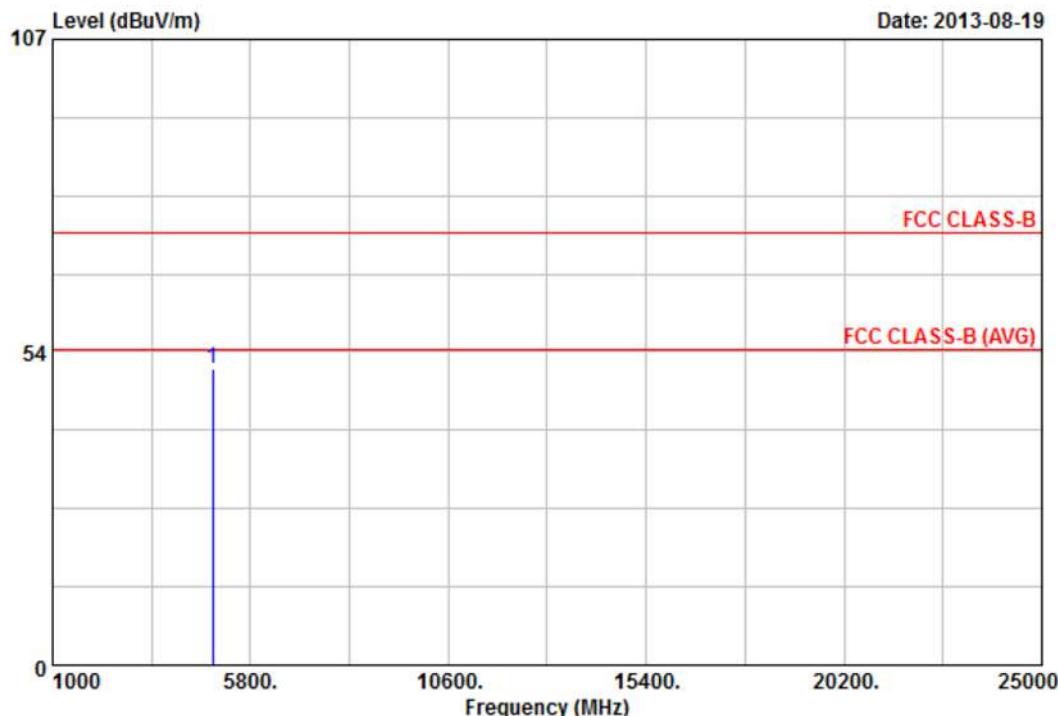
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
1	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Peak	cm	Deg
1	4873.79	41.27	9.03	50.30	74.00	-23.70		100	0

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	: 802.11n HT20, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 47 %

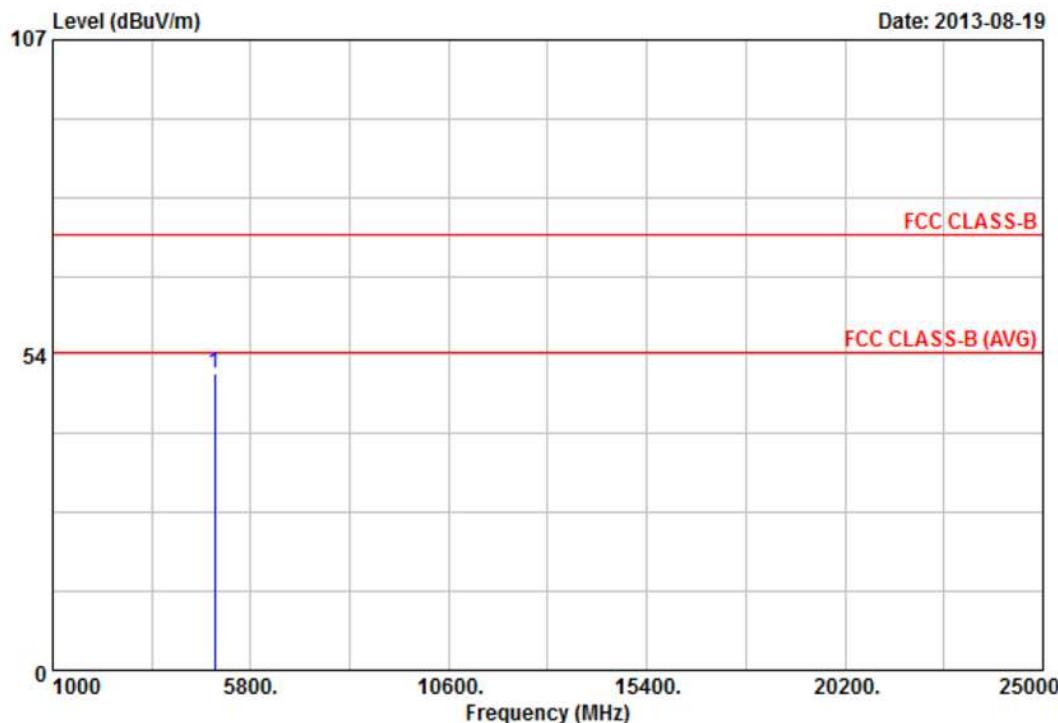


Notes:

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.



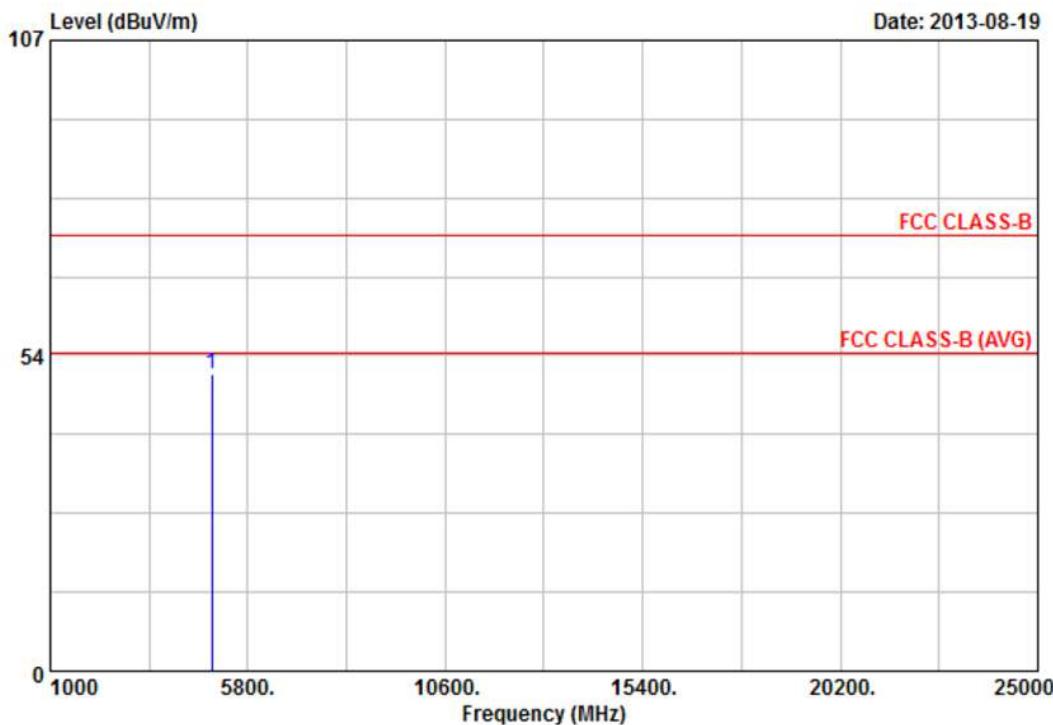
Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 47 %

**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	: 802.11n HT20, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



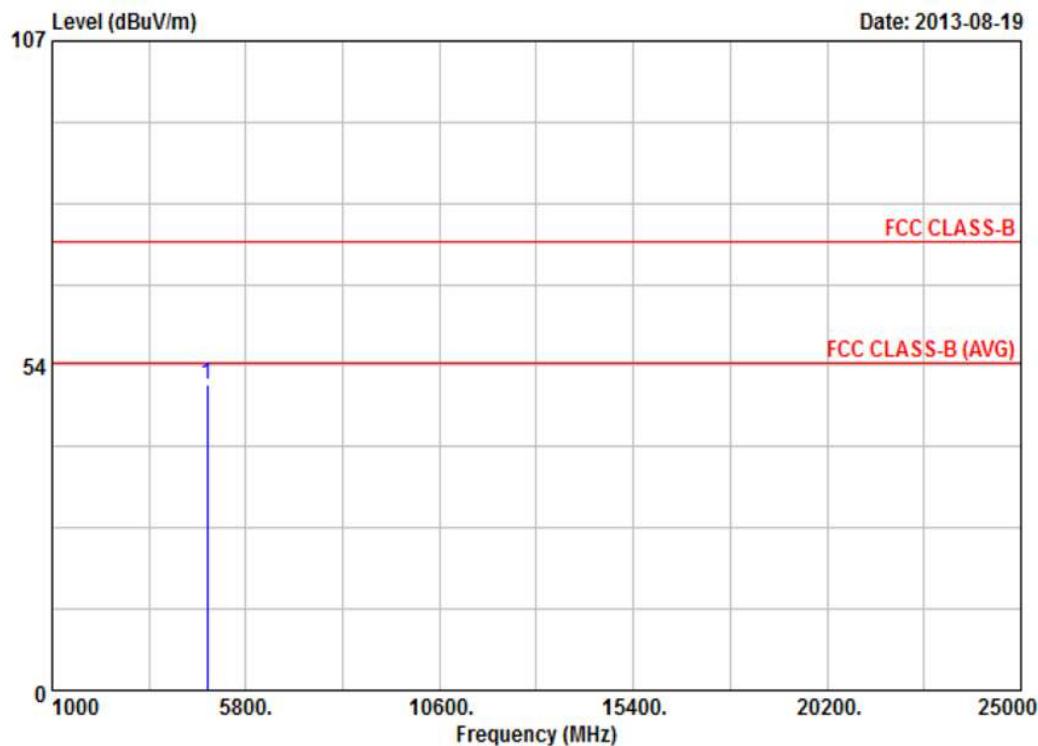
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4923.91	41.09	9.21	50.30	74.00	-23.70	Peak	100	0

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 3	: 802.11n HT40 CH3	Temperature	: 26 °C
Memo	:	Humidity	: 47 %

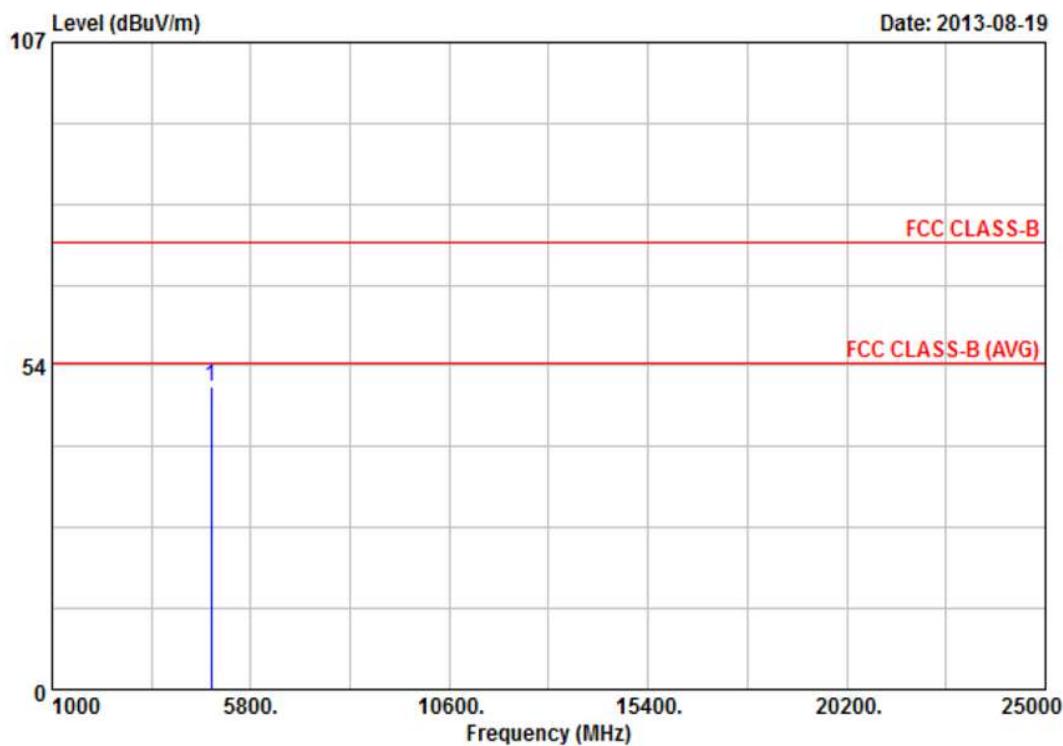


Notes:

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 3	:	802.11n HT40 CH3	Temperature	:	26 °C
Memo	:		Humidity	:	47 %



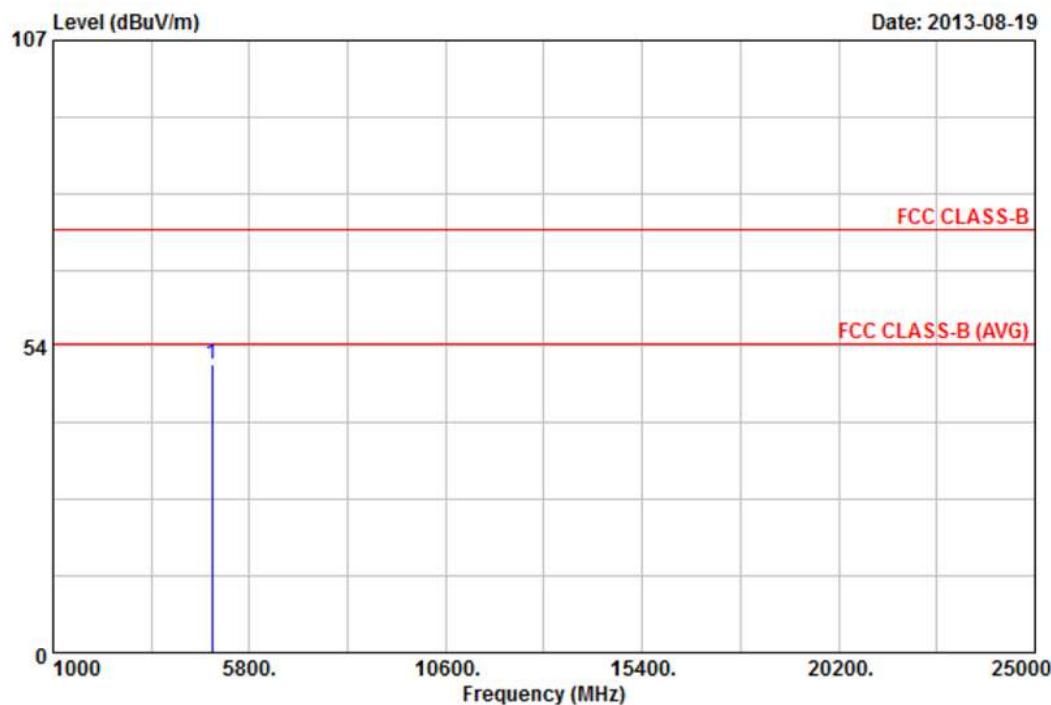
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4844.47	41.14	8.92	50.06	74.00	-23.94	Peak	100	0

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 3	: 802.11n HT40 CH6	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



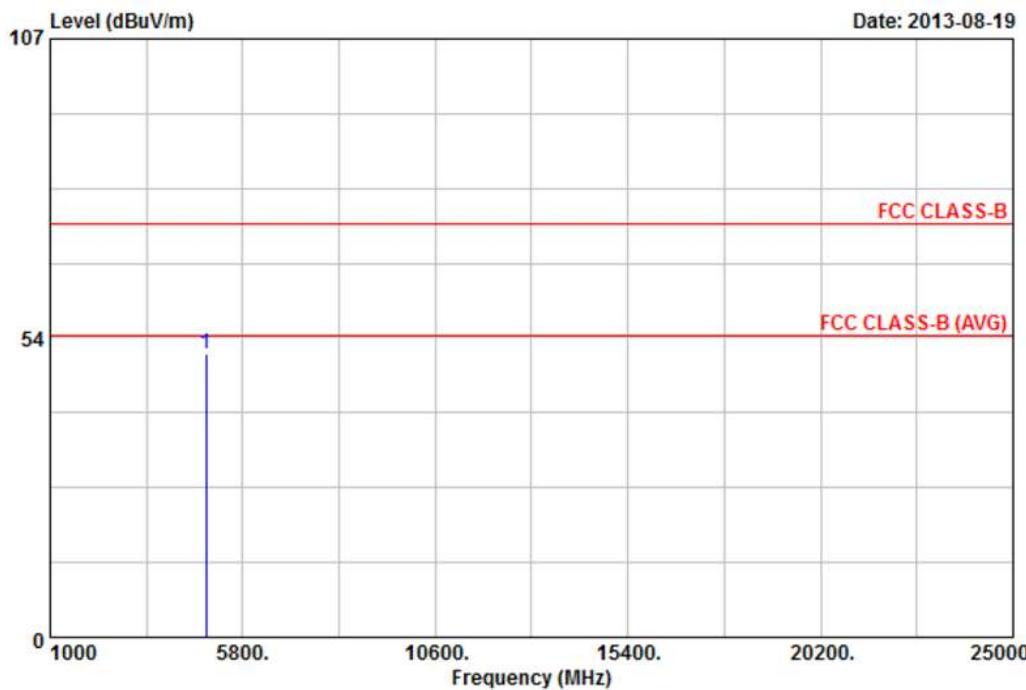
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
1	4873.63	41.41	9.03	50.44	74.00	-23.56	Peak	100	0

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 3	: 802.11n HT40 CH6	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



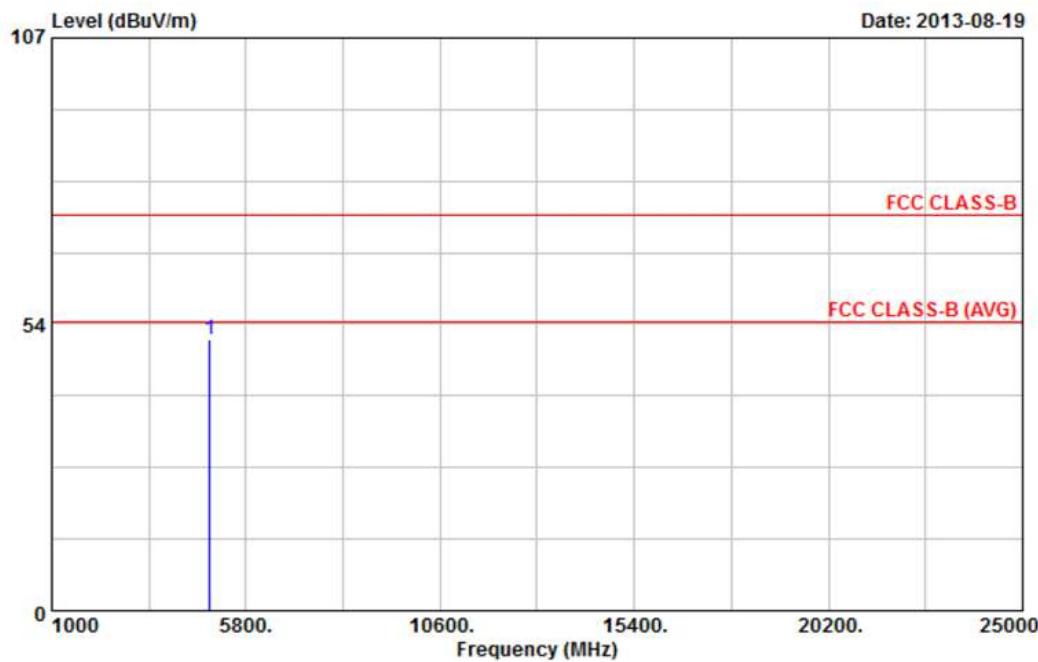
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4873.98	41.70	9.03	50.73	74.00	-23.27	Peak	100	0

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 3	: 802.11n HT40, CH9	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



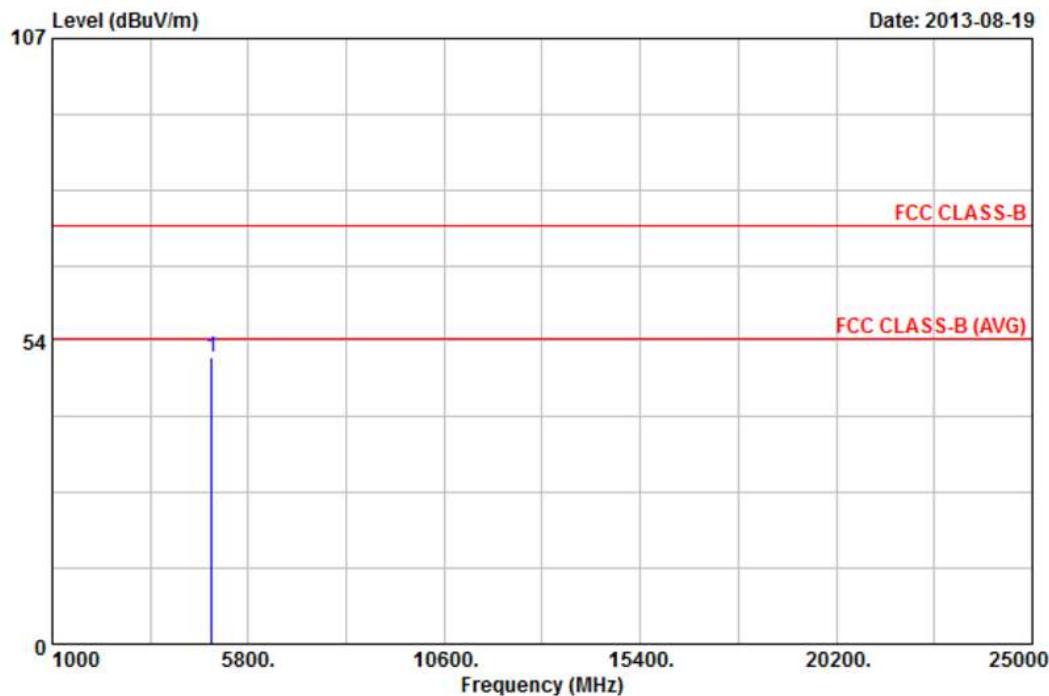
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4903.84	41.65	9.14	50.79	74.00	-23.21	Peak	100	0

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 3	: 802.11n HT40, CH9	Temperature	: 26 °C
Memo	:	Humidity	: 47 %



Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4904.30	41.40	9.15	50.55	74.00	-23.45	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.



6. 6dB Bandwidth Measurement Data

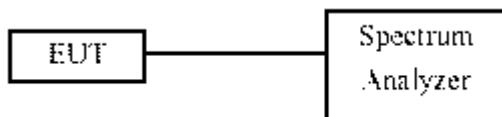
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW \geq 3x RBW.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

6.3 Test Setup Layout



6.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14



6.5 Test Result and Data

Test Date: Aug. 14, 2013

Temperature: 26°C

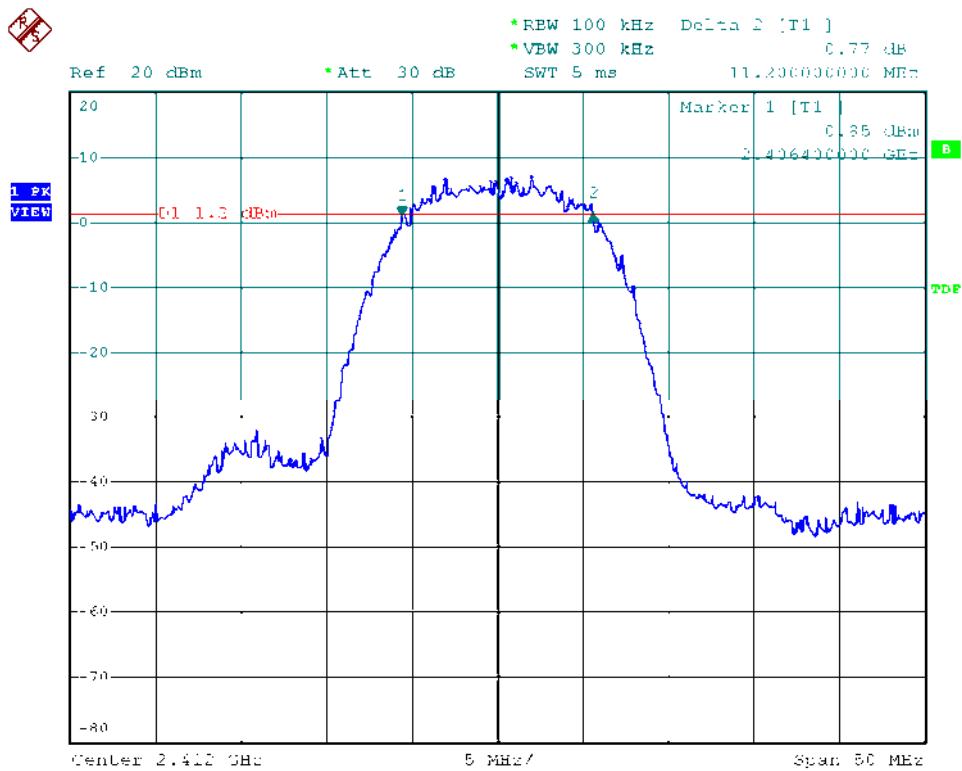
Atmospheric pressure: 1018 hPa

Humidity: 43%

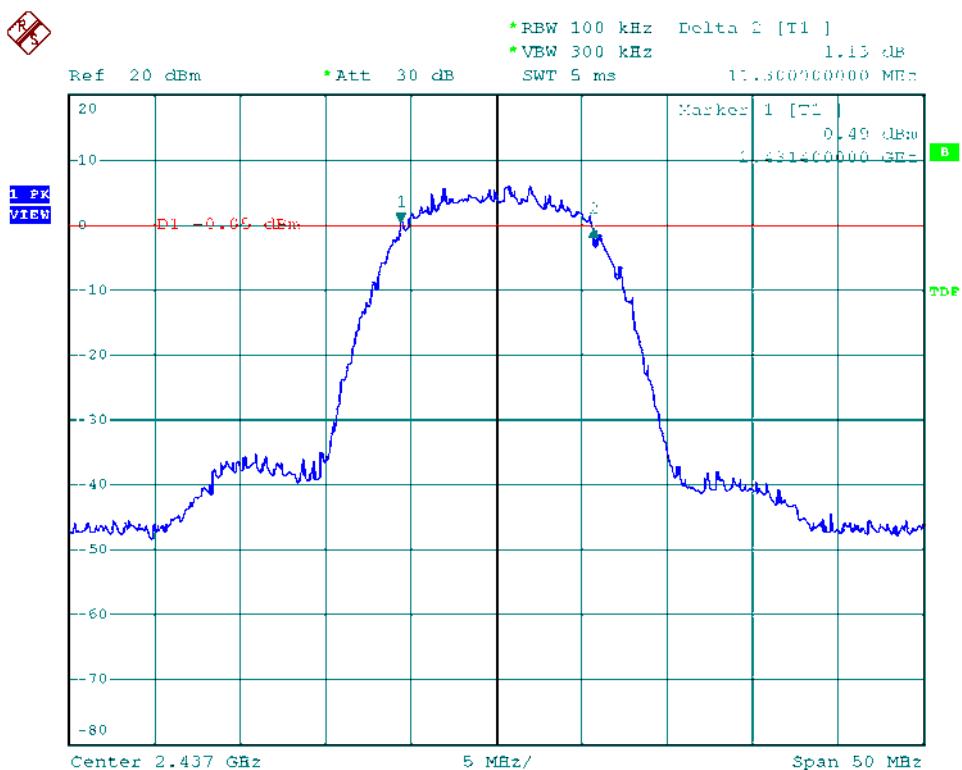
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)
802.11b (11Mbps)	01	2412	11.2
	06	2437	11.3
	11	2462	11.2
802.11g (54Mbps)	01	2412	16.6
	06	2437	16.6
	11	2462	16.6
802.11n HT20 (65Mbps)	01	2412	17.8
	06	2437	17.8
	11	2462	17.8
802.11n HT40 (135Mbps)	03	2422	36.6
	06	2437	36.4
	09	2452	36.6



Modulation Standard: 802.11b (11Mbps)
Channel: 01

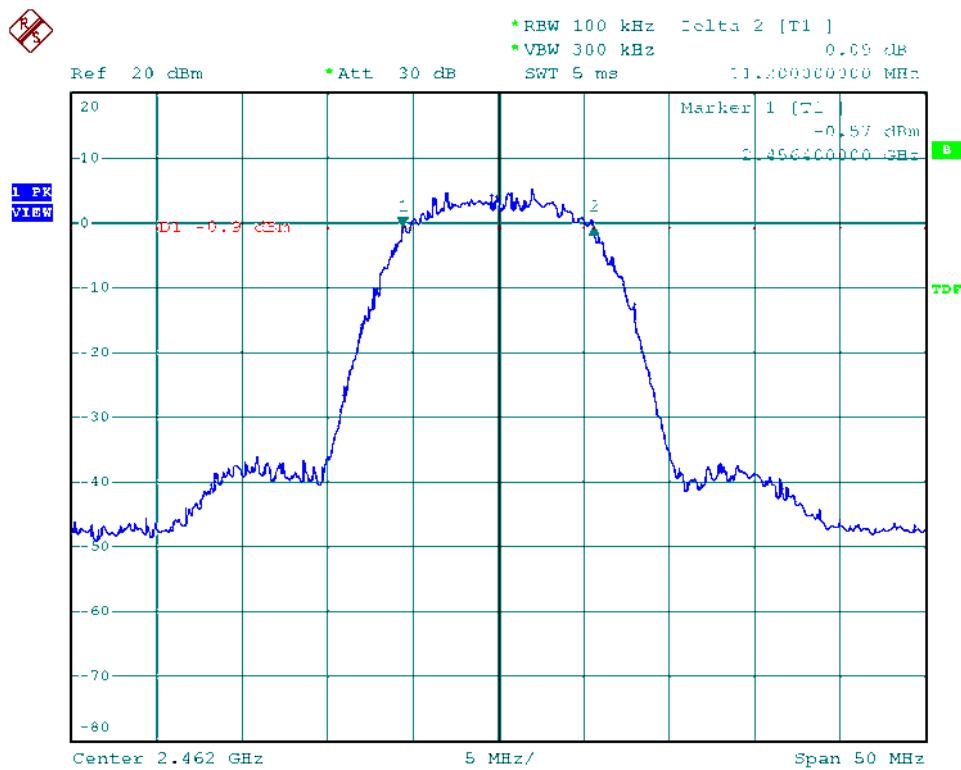


Modulation Standard: 802.11b (11Mbps)
Channel: 06

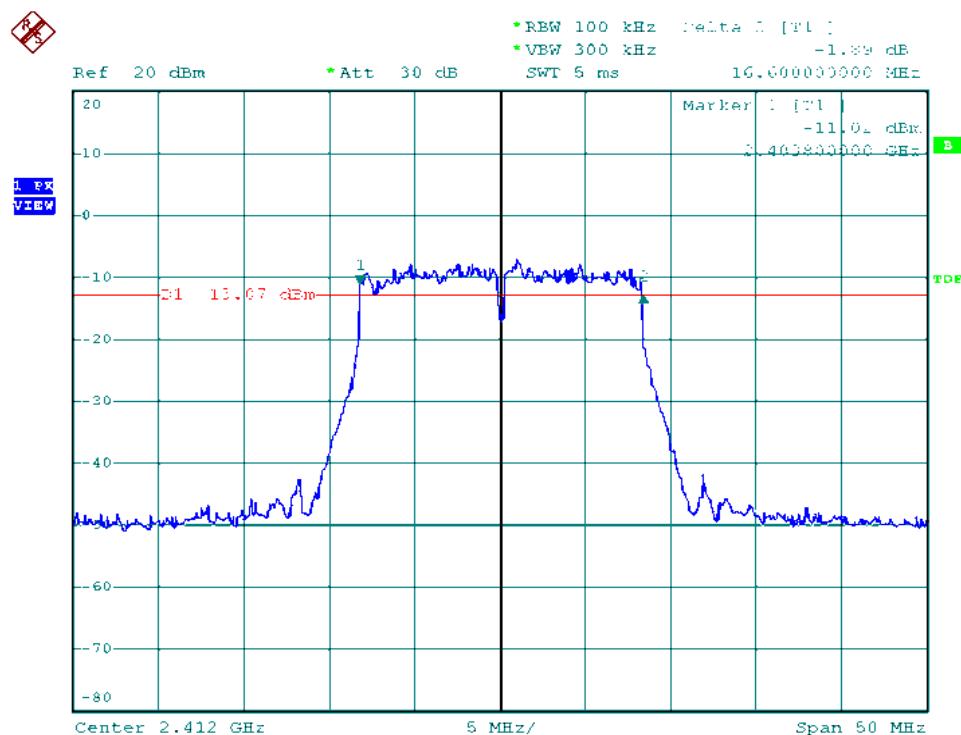




Modulation Standard: 802.11b (11Mbps)
Channel: 11

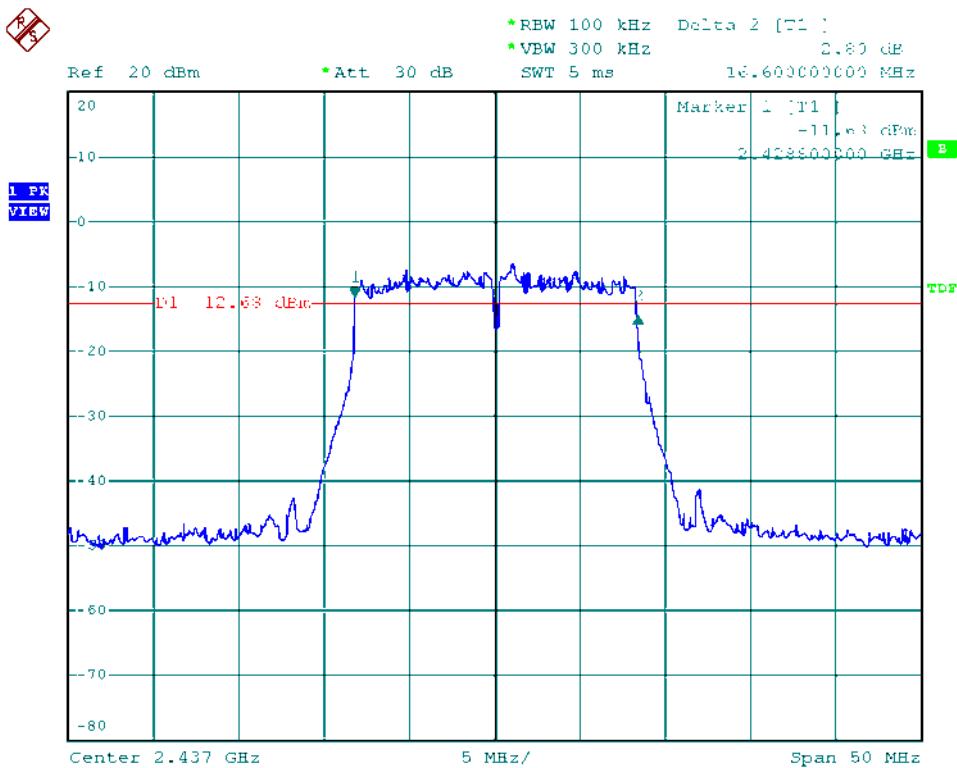


Modulation Standard: 802.11g (54Mbps)
Channel: 01

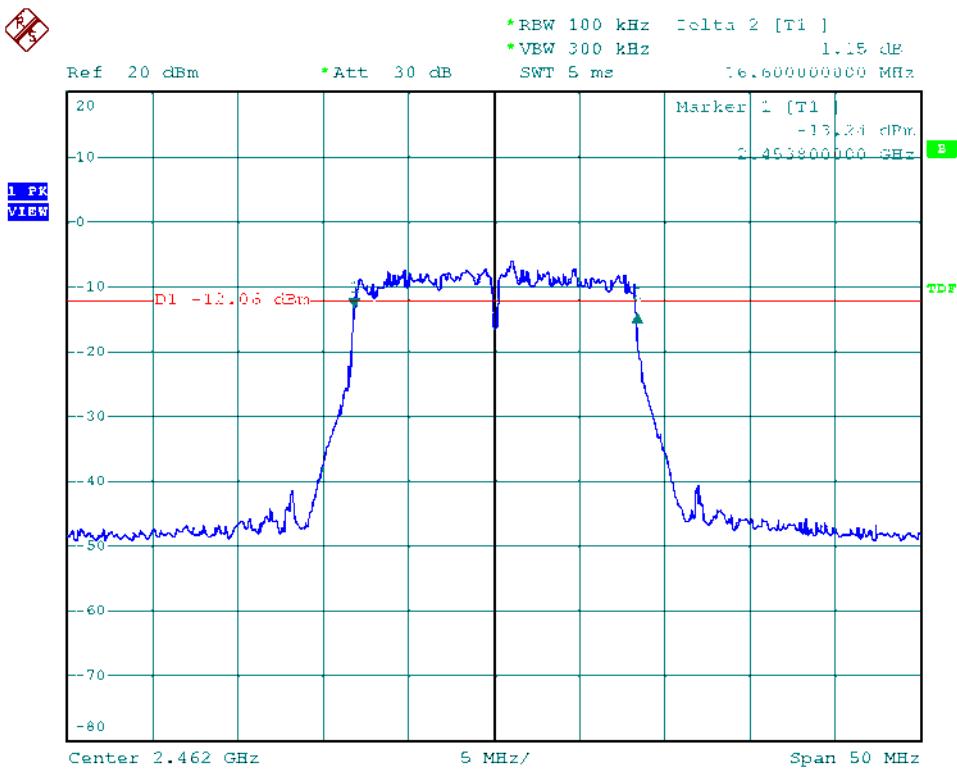




Modulation Standard: 802.11g (54Mbps)
Channel: 06

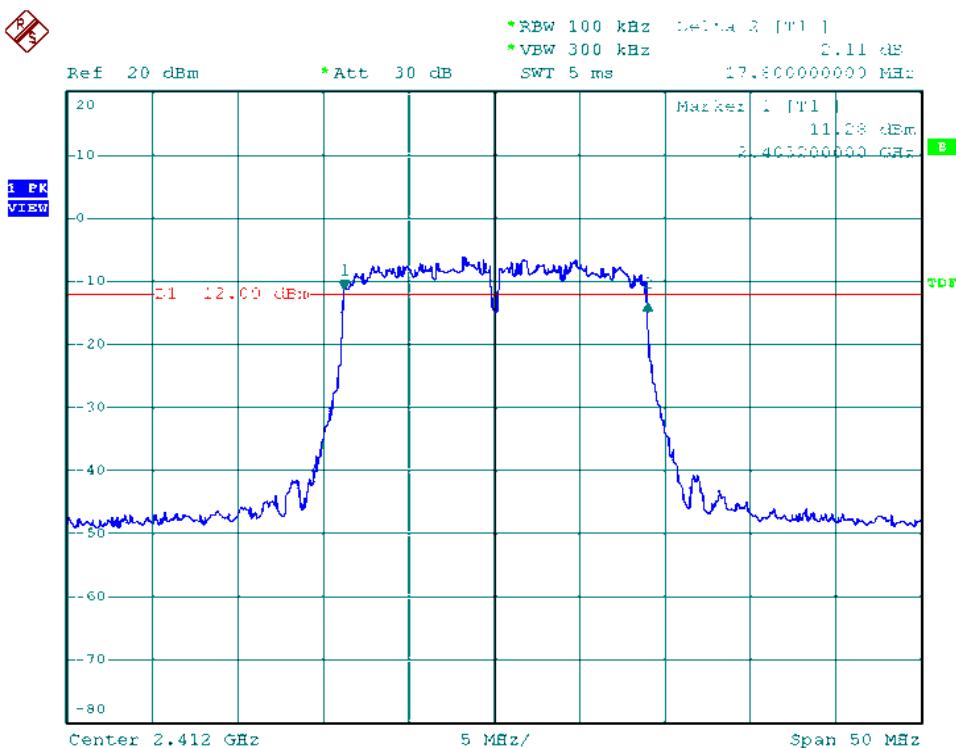


Modulation Standard: 802.11g (54Mbps)
Channel: 11

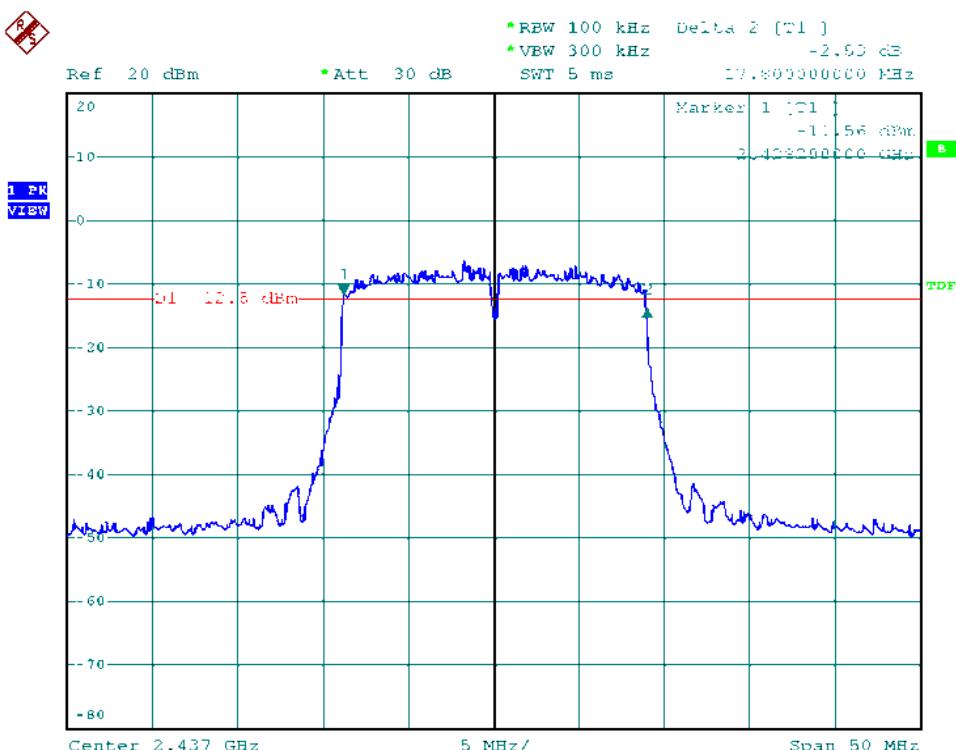




Modulation Standard: 802.11n HT20 (65Mbps)
Channel: 01

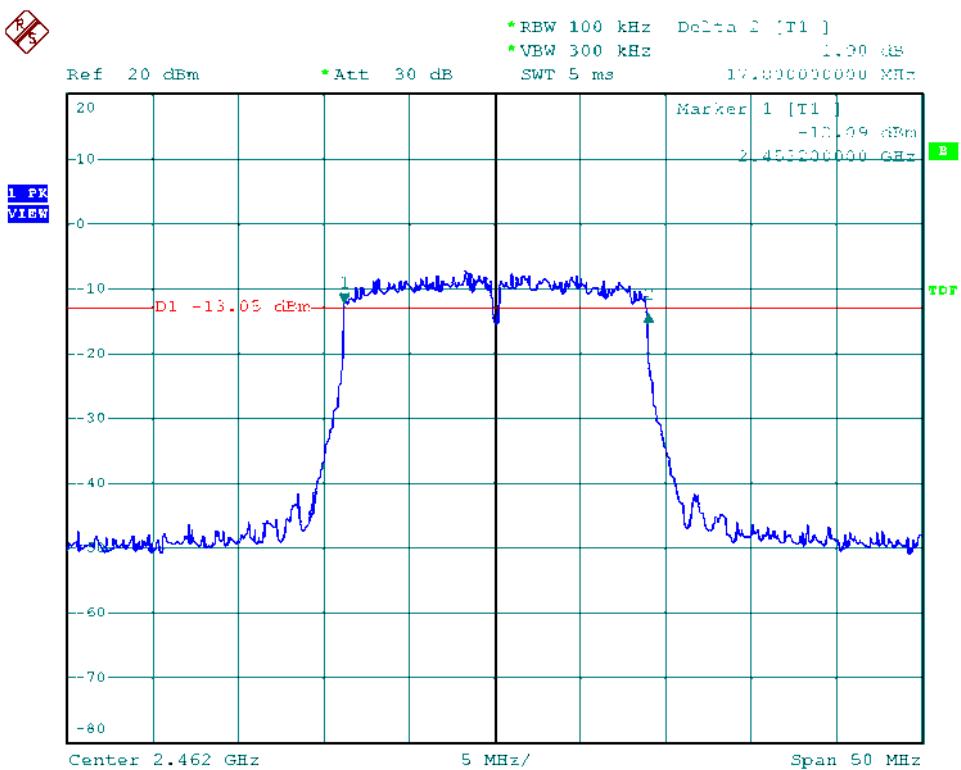


Modulation Standard: 802.11n HT20 (65Mbps)
Channel: 06

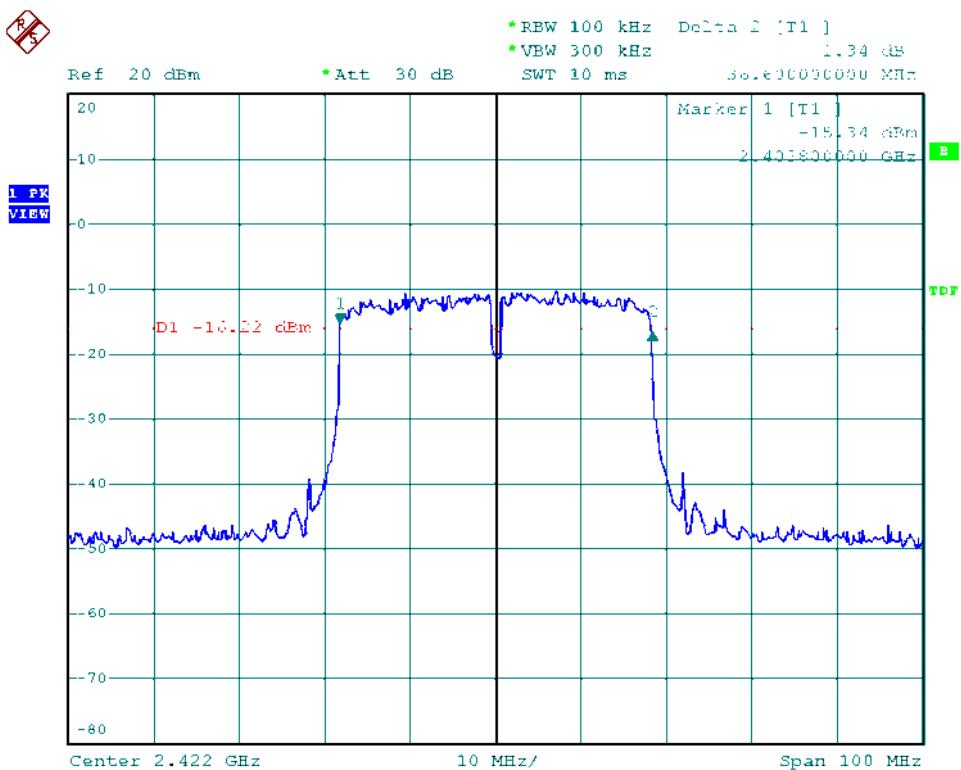




Modulation Standard: 802.11n HT20 (65Mbps)
Channel: 11

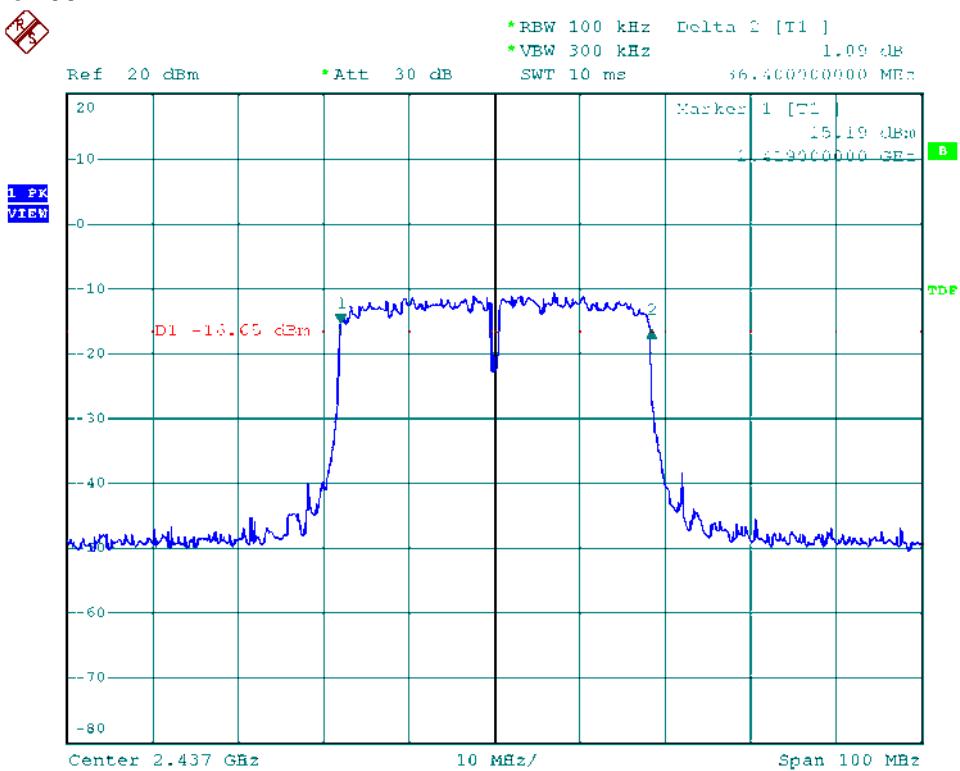


Modulation Standard: 802.11n HT40 (135Mbps)
Channel: 03

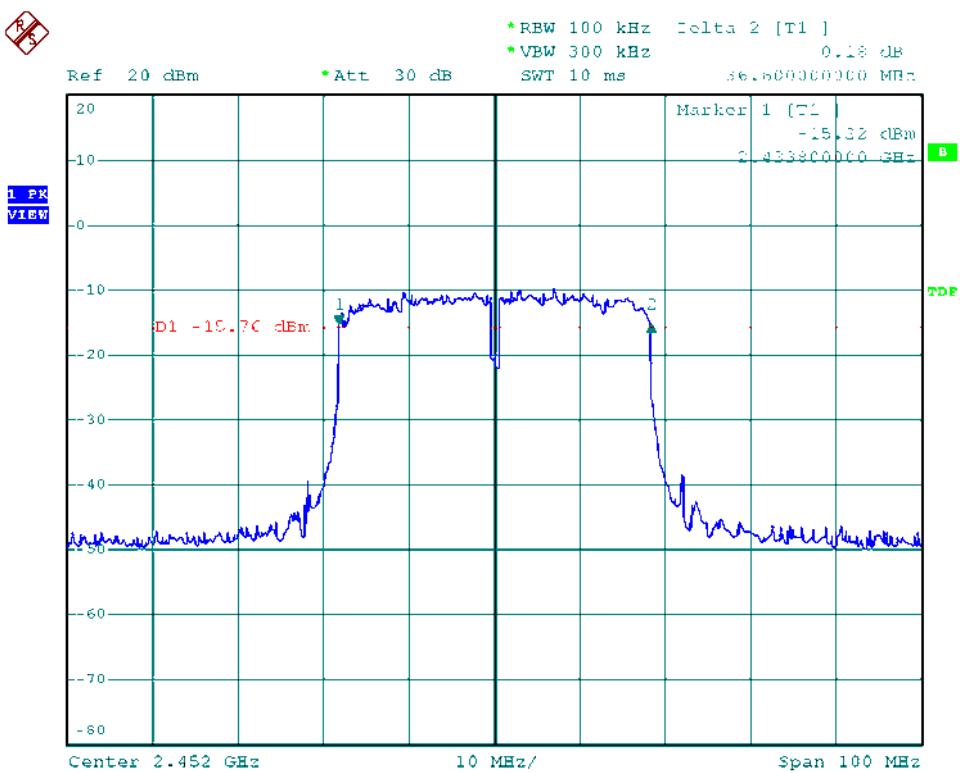




Modulation Standard: 802.11n HT40 (135Mbps)
Channel: 06



Modulation Standard: 802.11n HT40 (135Mbps)
Channel: 09





7. Maximum Peak and Average Output Power

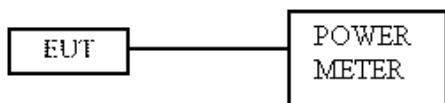
7.1 Test Limit

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	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14
SERIES POWER METER	ANRITSU	ML2495A	1224005	2013/03/21	2014/03/20
POWER SENSOR	ANRITSU	MA2411B	1207295	2013/03/21	2014/03/20



7.5 Test Result and Data

Test Date: Aug. 14, 2013

Temperature: 26°C

Atmospheric pressure: 1018 hPa

Humidity: 43%

Modulation Standard	Channel	Frequency (MHz)	Power Output (dBm)		Peak Power Output (mW)	
			Peak	Average	Peak	Average
802.11b (11Mbps)	01	2412	20.11	17.58	102.6	57.3
	06	2437	20.36	17.65	108.6	58.2
	11	2462	20.14	17.39	103.3	54.8
802.11g (54Mbps)	01	2412	16.23	5.35	42.0	3.4
	06	2437	16.75	5.98	47.3	4.0
	11	2462	16.73	6.48	47.1	4.4
802.11n HT20 (65Mbps)	01	2412	16.25	6.45	42.2	4.4
	06	2437	16.28	6.44	42.5	4.4
	11	2462	16.21	6.27	41.8	4.2
802.11n HT40 (135Mbps)	03	2422	16.48	6.95	44.5	5.0
	06	2437	16.16	6.59	41.3	4.6
	09	2452	16.23	6.67	42.0	4.6



8. Power Spectral Density

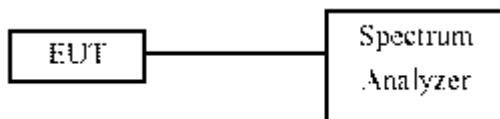
8.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

8.2 Test Procedures

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

8.3 Test Setup Layout



8.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

8.5 Test Result and Data

Test Date: Aug. 14, 2013

Temperature: 26°C

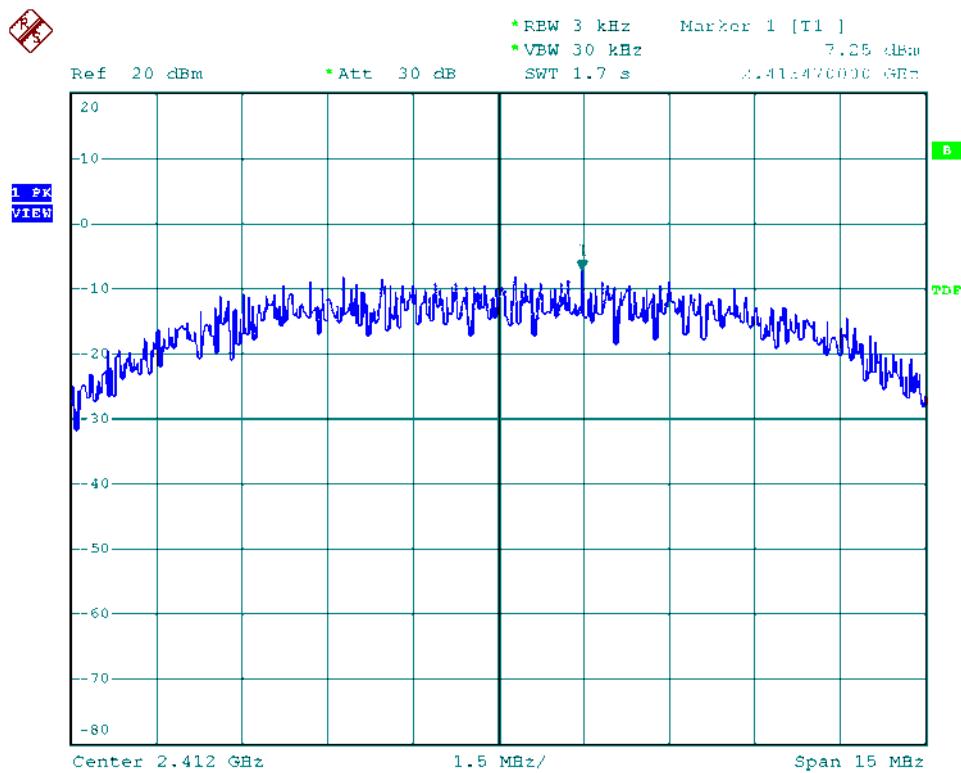
Atmospheric pressure: 1018 hPa

Humidity: 43%

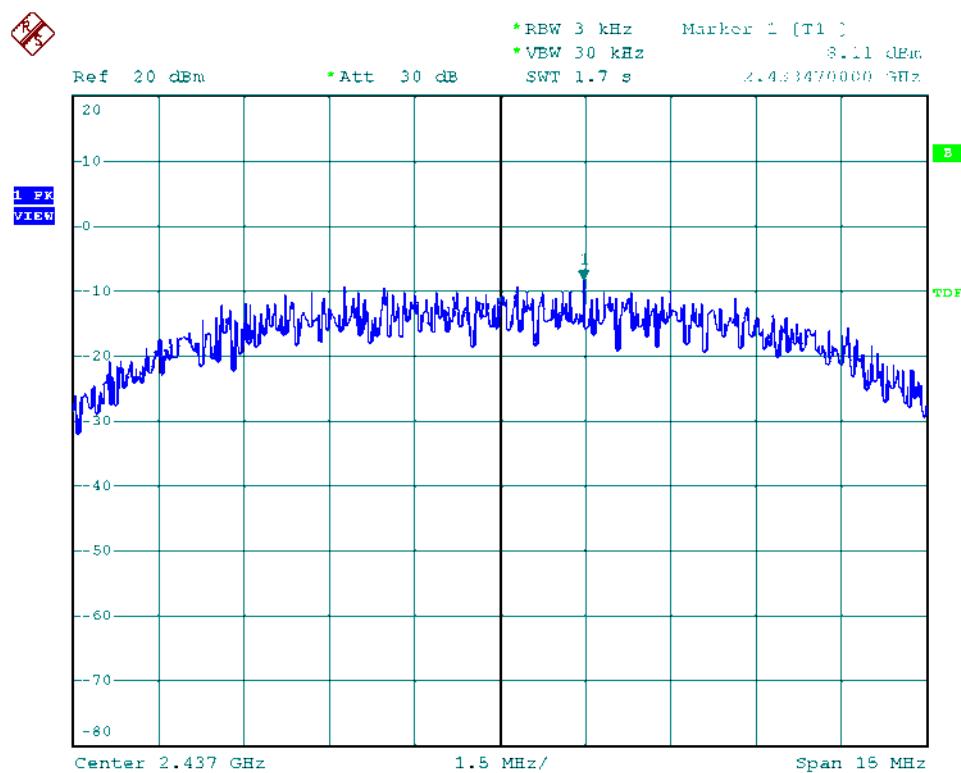
Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)
802.11b (11Mbps)	01	2412	-7.25
	06	2437	-8.11
	11	2462	-8.75
802.11g (54Mbps)	01	2412	-21.46
	06	2437	-20.90
	11	2462	-20.55
802.11n HT20 (65Mbps)	01	2412	-20.54
	06	2437	-20.90
	11	2462	-21.29
802.11n HT40 (135Mbps)	03	2422	-23.95
	06	2437	-23.80
	09	2452	-23.08



Modulation Standard: 802.11b (11Mbps)
Channel: 01

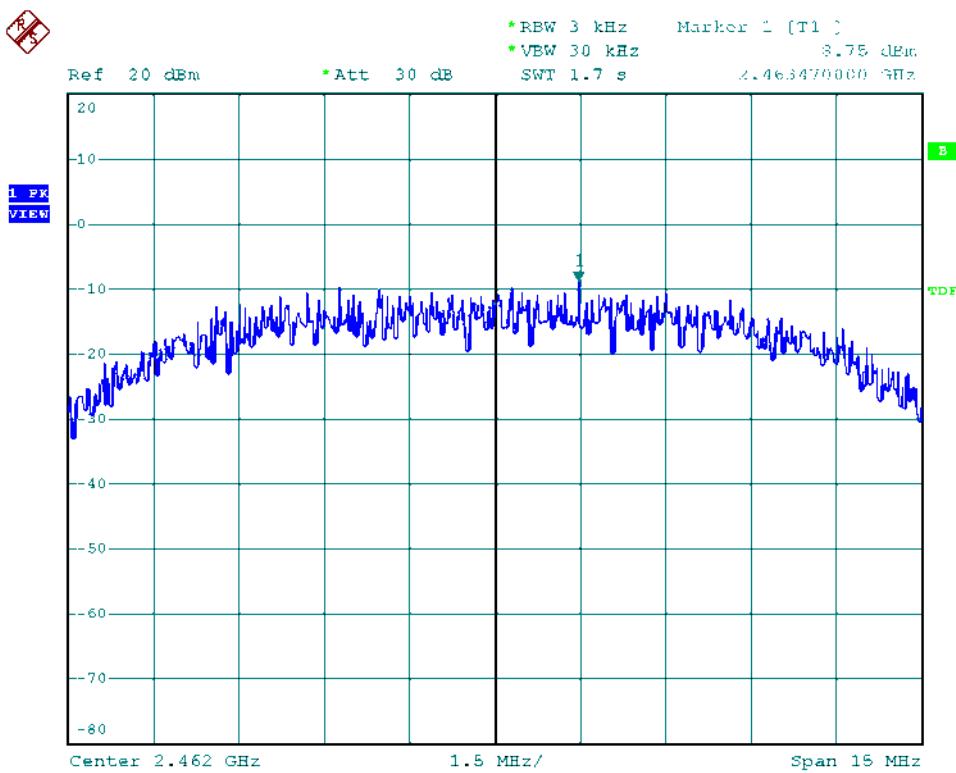


Modulation Standard: 802.11b (11Mbps)
Channel: 06

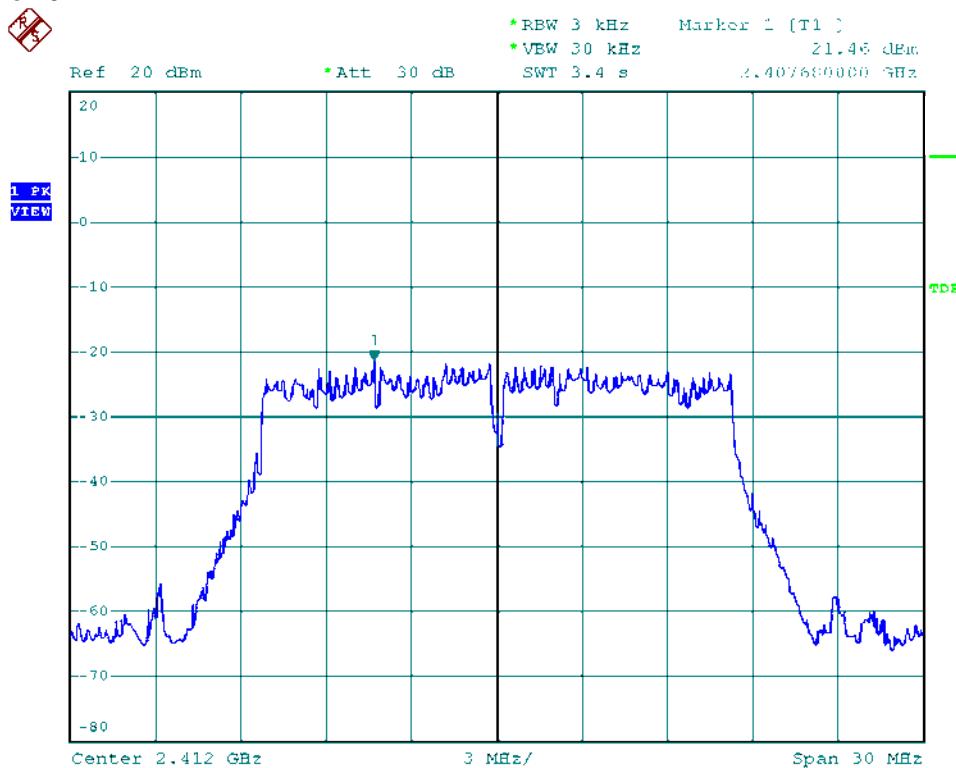




Modulation Standard: 802.11b (11Mbps)
Channel: 11

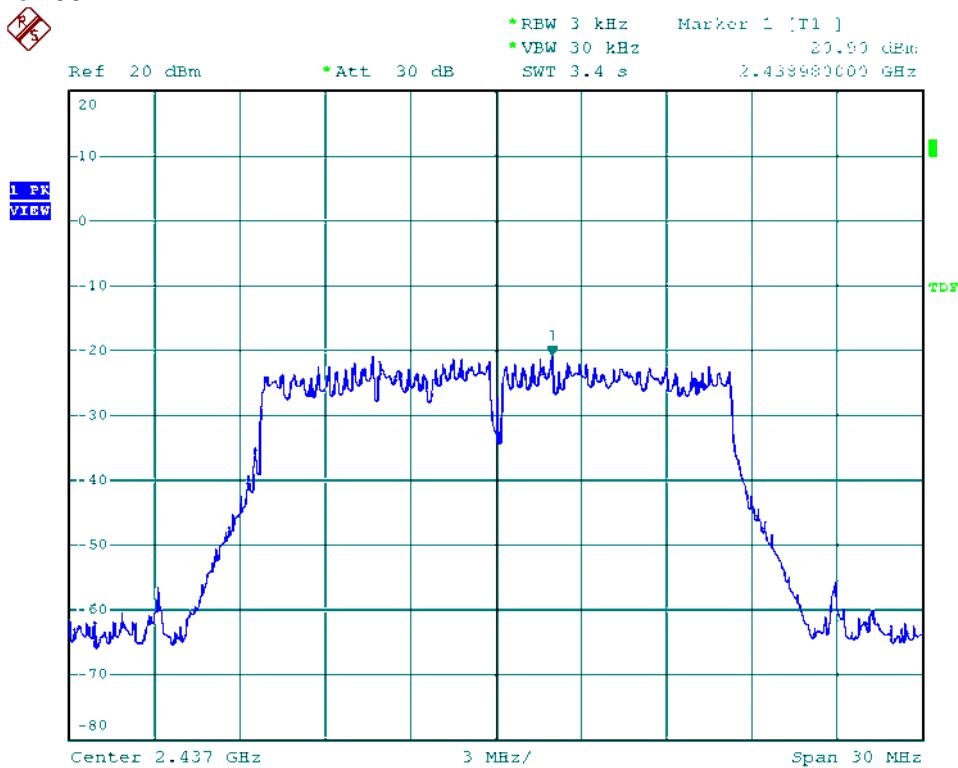


Modulation Standard: 802.11g (54Mbps)
Channel: 01

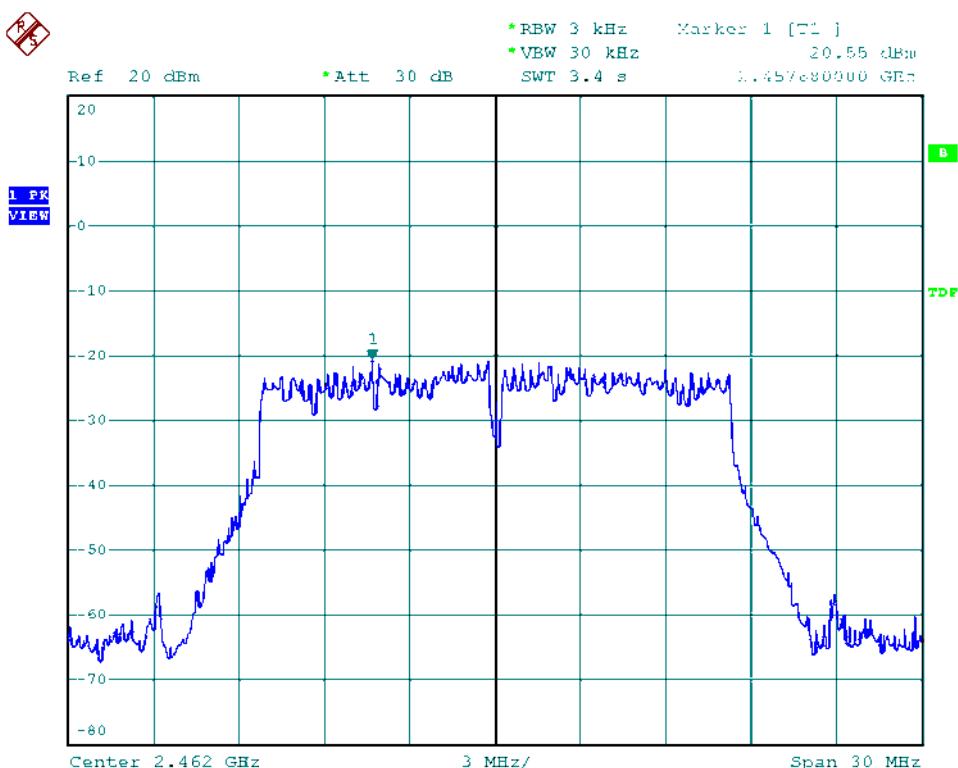




Modulation Standard: 802.11g (54Mbps)
Channel: 06

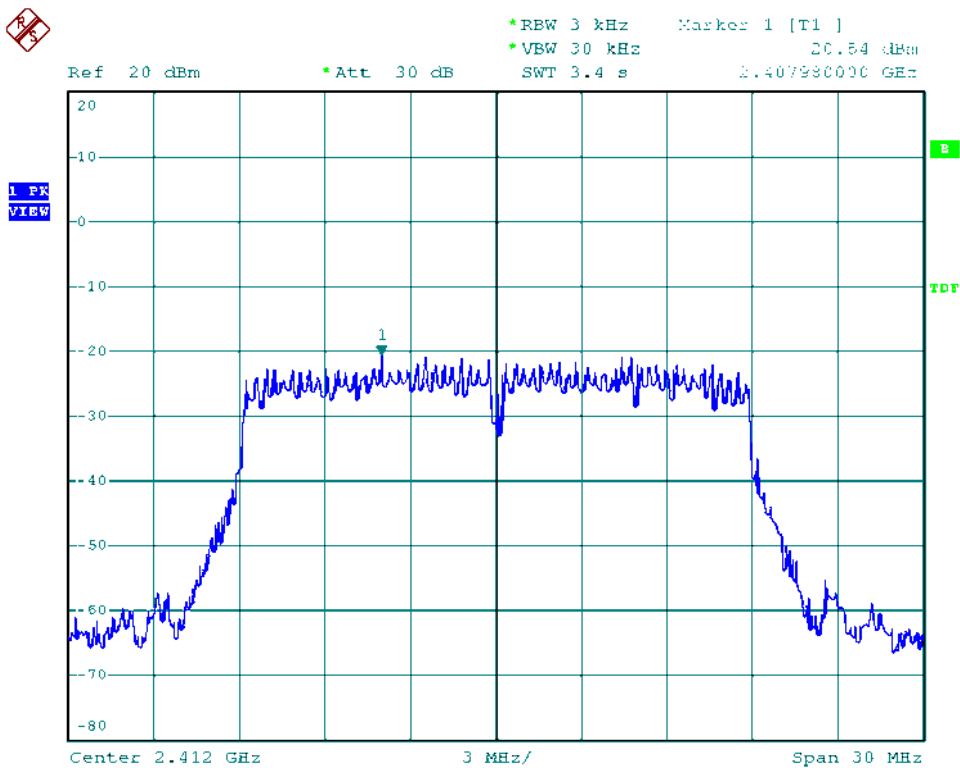


Modulation Standard: 802.11g (54Mbps)
Channel: 11

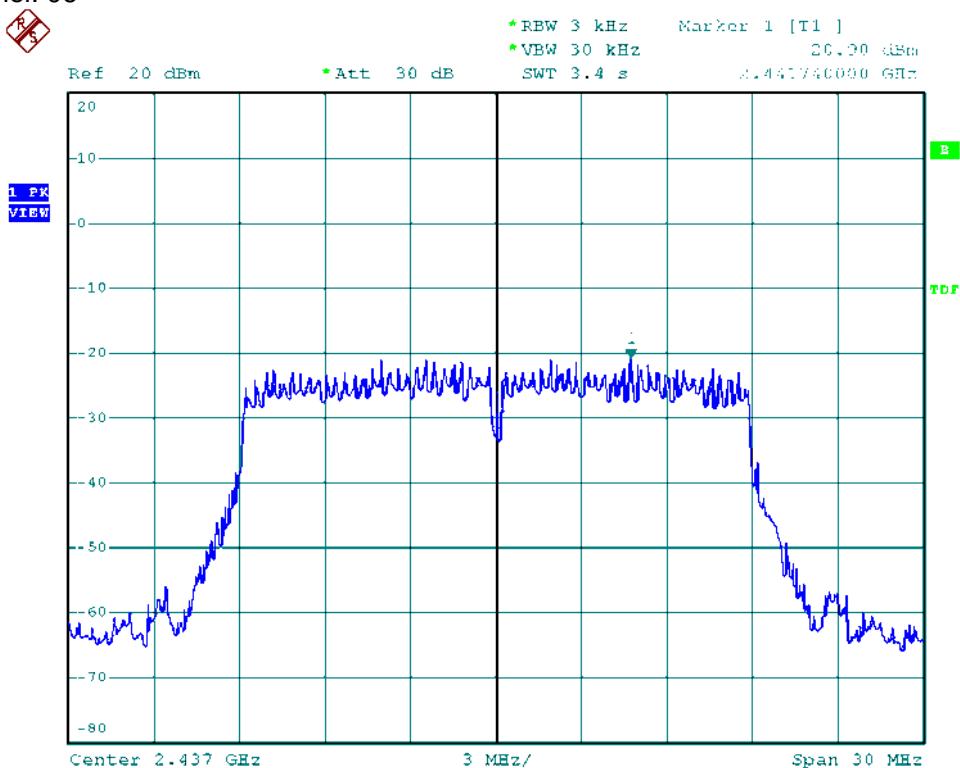




Modulation Standard: 802.11n HT20 (65Mbps)
Channel: 01

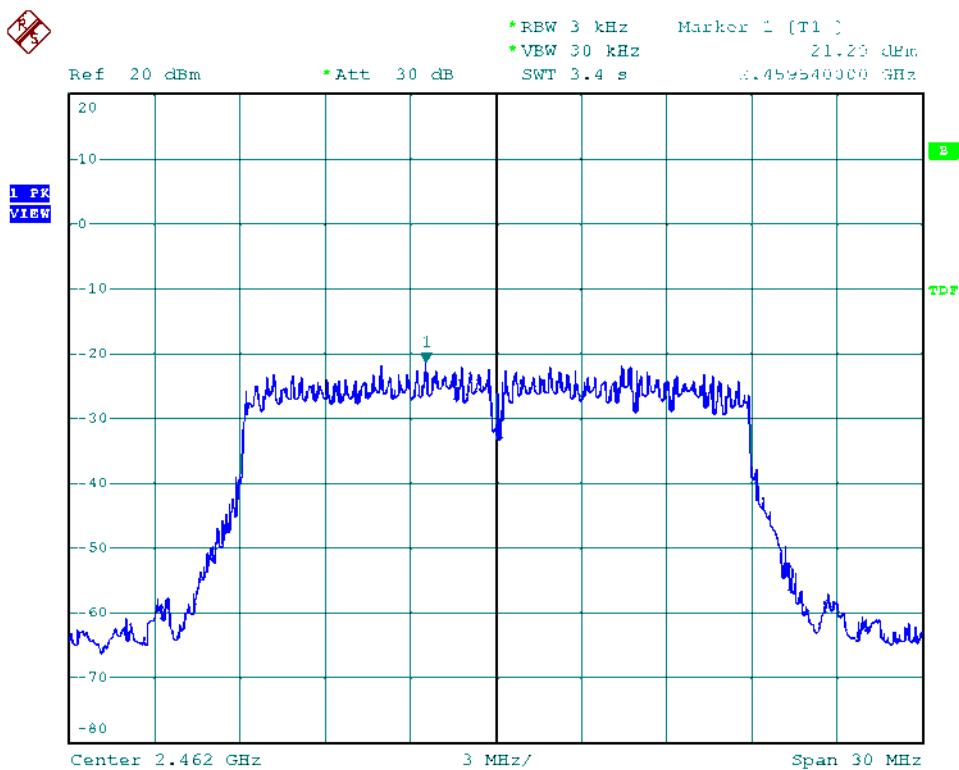


Modulation Standard: 802.11n HT20 (65Mbps)
Channel: 06

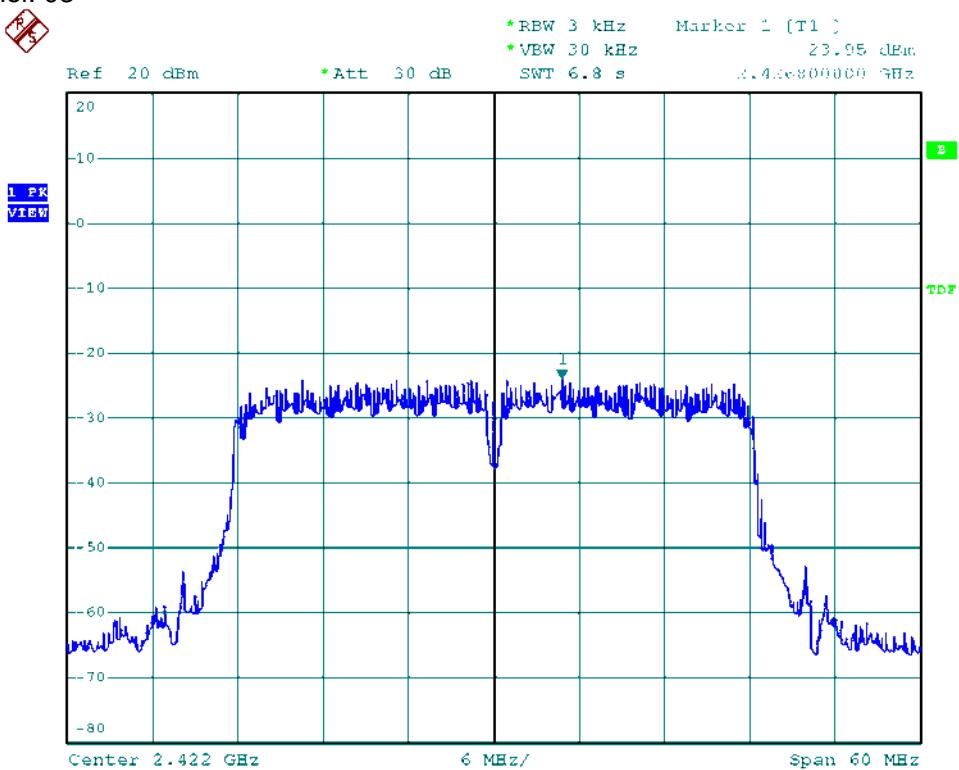




Modulation Standard: 802.11n HT20 (65Mbps)
Channel: 11

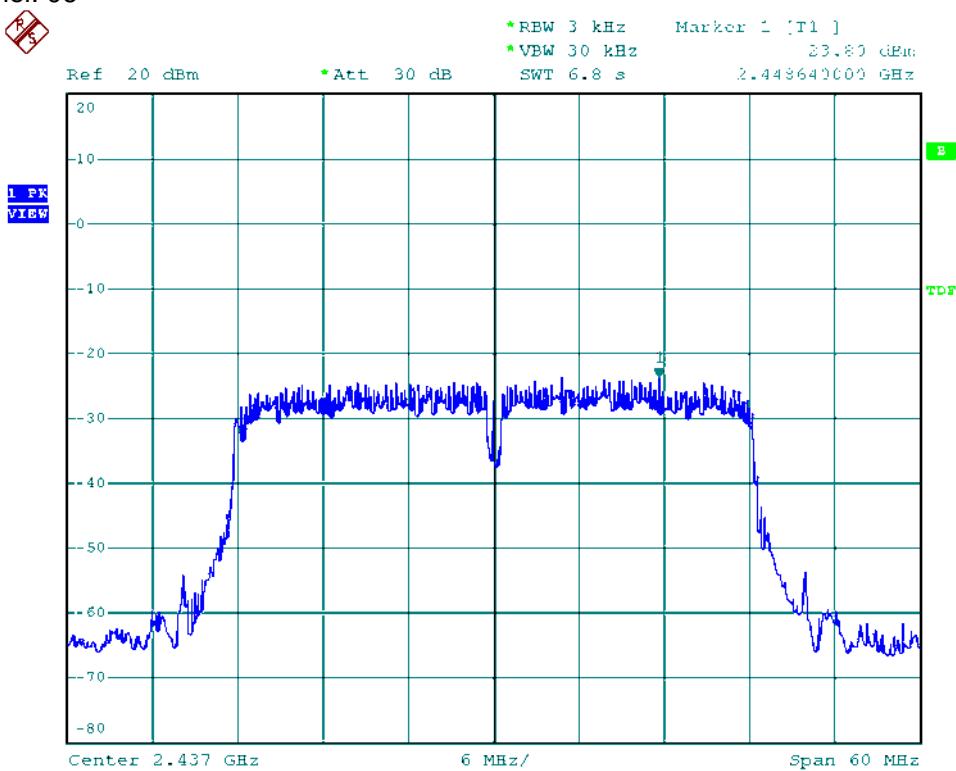


Modulation Standard: 802.11n HT40 (135Mbps)
Channel: 03

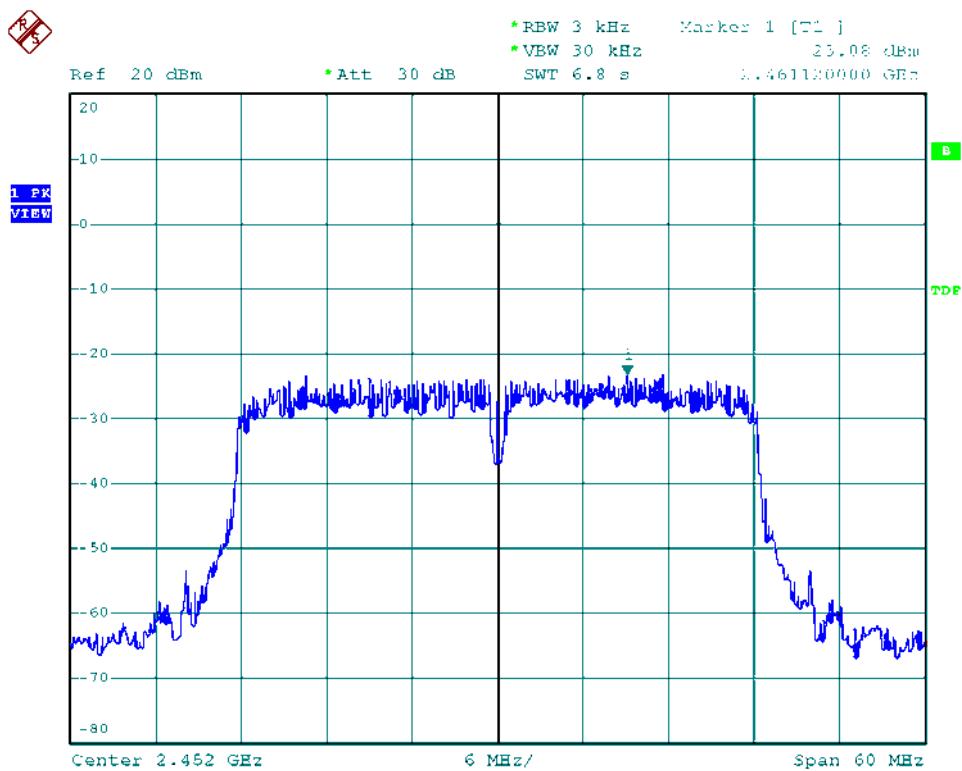




Modulation Standard: 802.11n HT40 (135Mbps)
Channel: 06



Modulation Standard: 802.11n HT40 (135Mbps)
Channel: 09





9. Band Edges Measurement

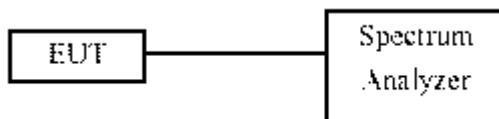
9.1 Test Limit

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

9.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- The band edges were measured and recorded.

9.3 Test Setup Layout



9.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

9.5 Test Result and Data

Test Date: Aug. 14, 2013

Temperature: 26°C

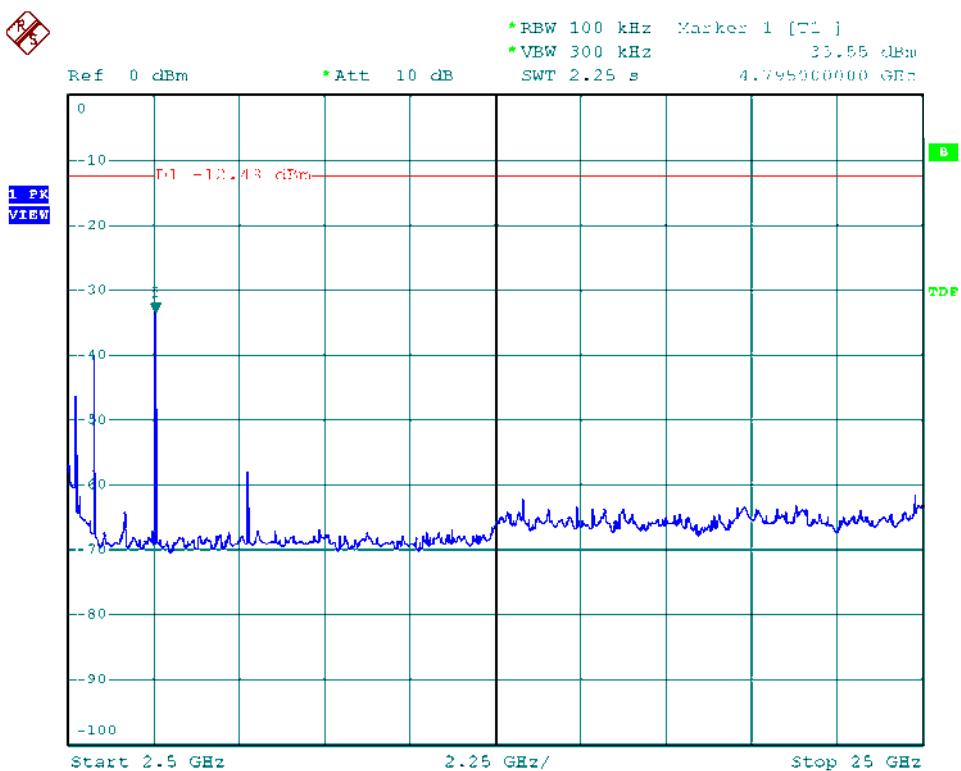
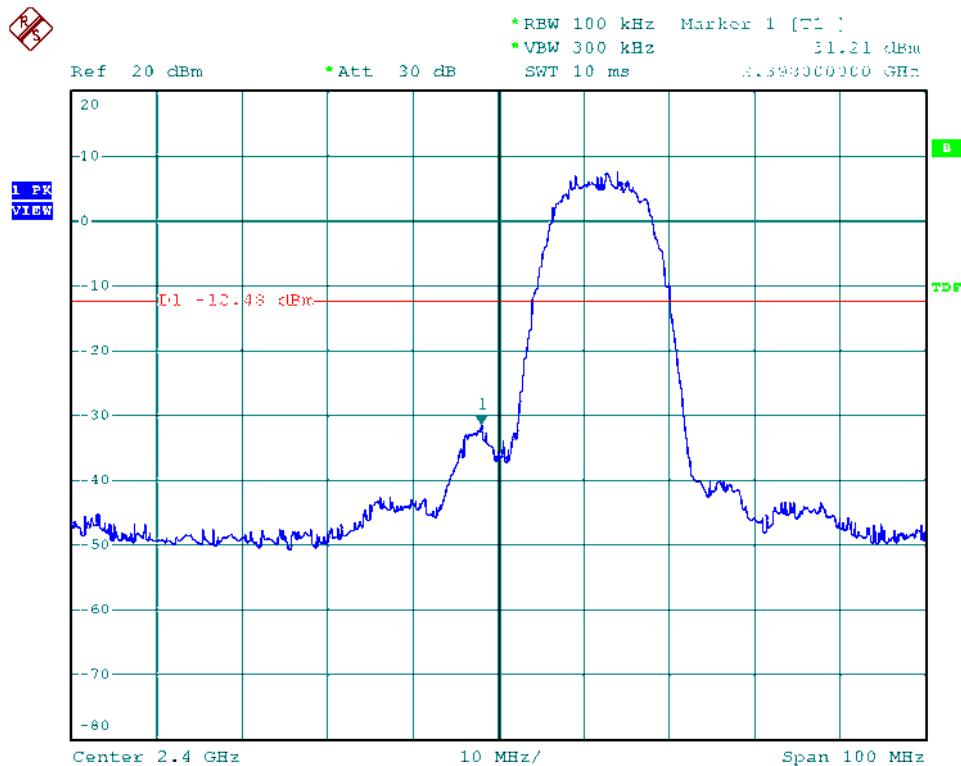
Atmospheric pressure: 1018 hPa

Humidity: 43%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency(MHz)	maximum value (dBm)	Limit (dBm)
802.11b (11Mbps)	01	2412	2398.00	-31.21	-12.48
	11	2462	4885.00	-37.73	-14.90
802.11g (54Mbps)	01	2412	3175.00	-39.47	-28.00
	11	2462	3265.00	-44.56	-25.80
802.11n HT20 (65Mbps)	01	2412	3175.00	-40.02	-26.16
	11	2462	3265.00	-44.28	-26.99
802.11n HT40 (135Mbps)	03	2422	3220.00	-40.60	-30.00
	09	2452	3265.00	-43.55	-29.81

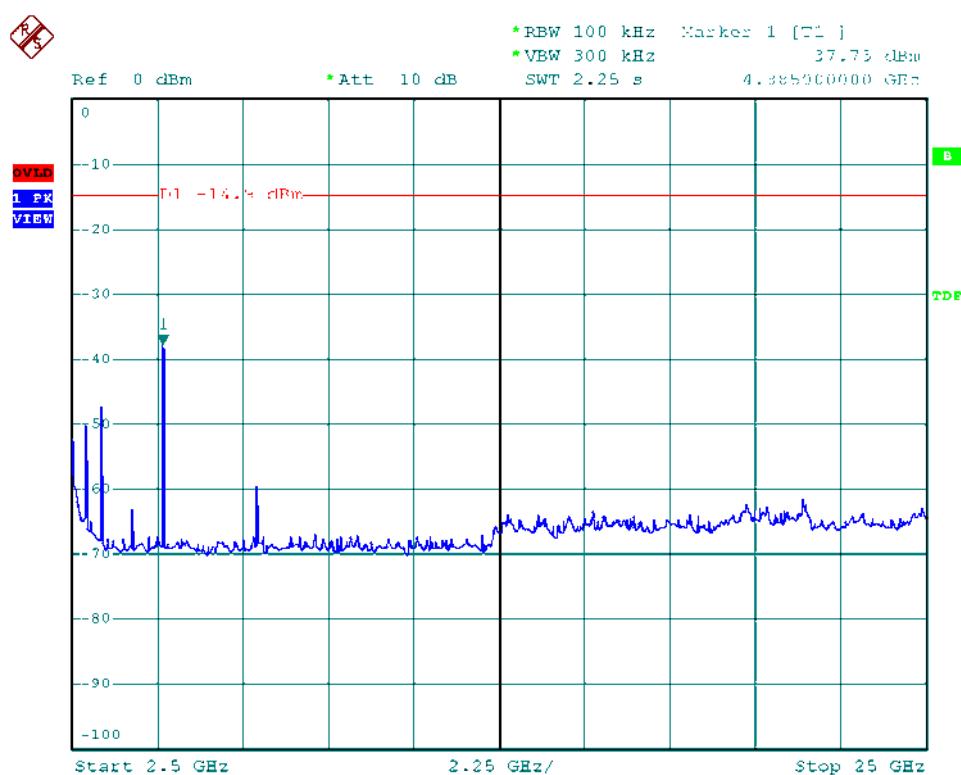
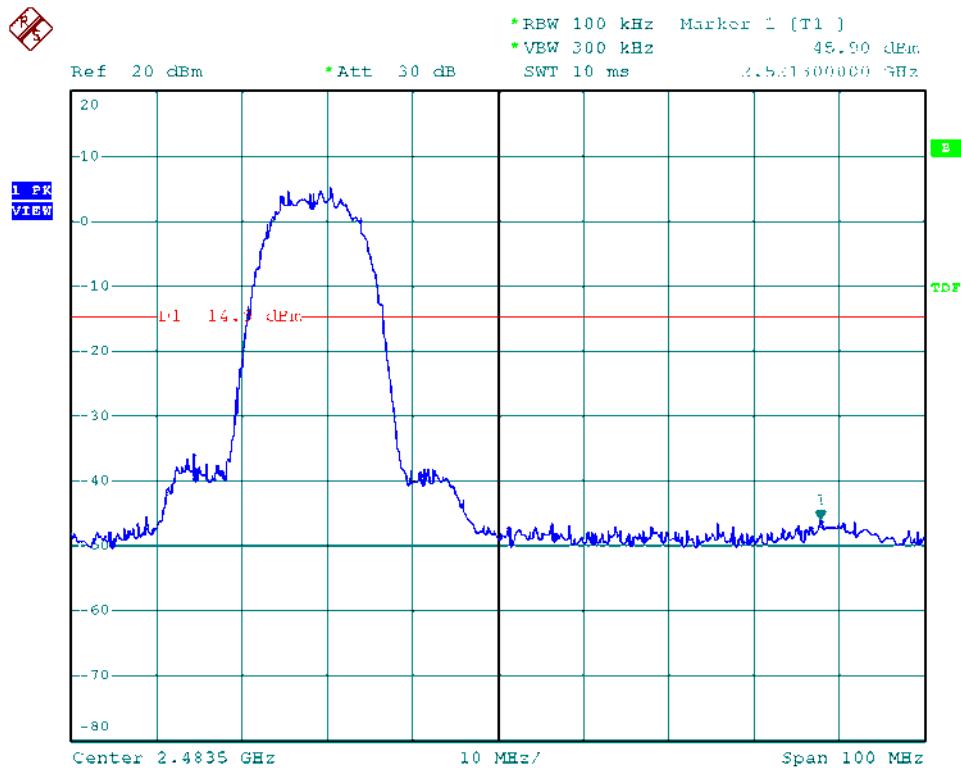


Modulation Standard: 802.11b (11Mbps)
Channel: 01



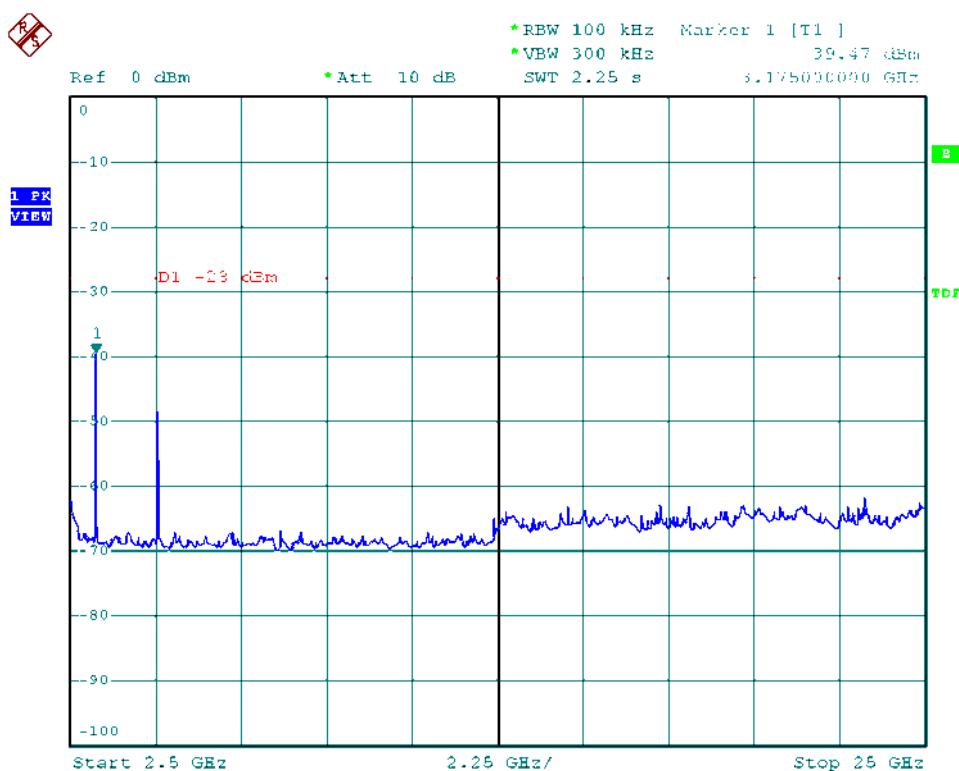
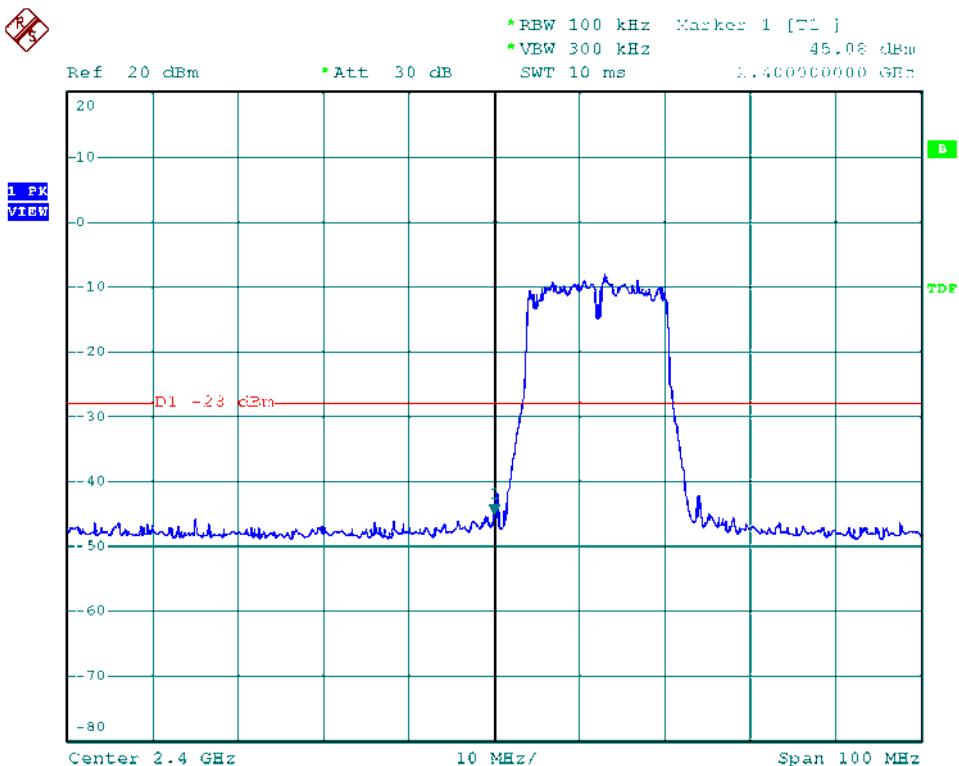


Modulation Standard: 802.11b (11Mbps)
Channel: 11



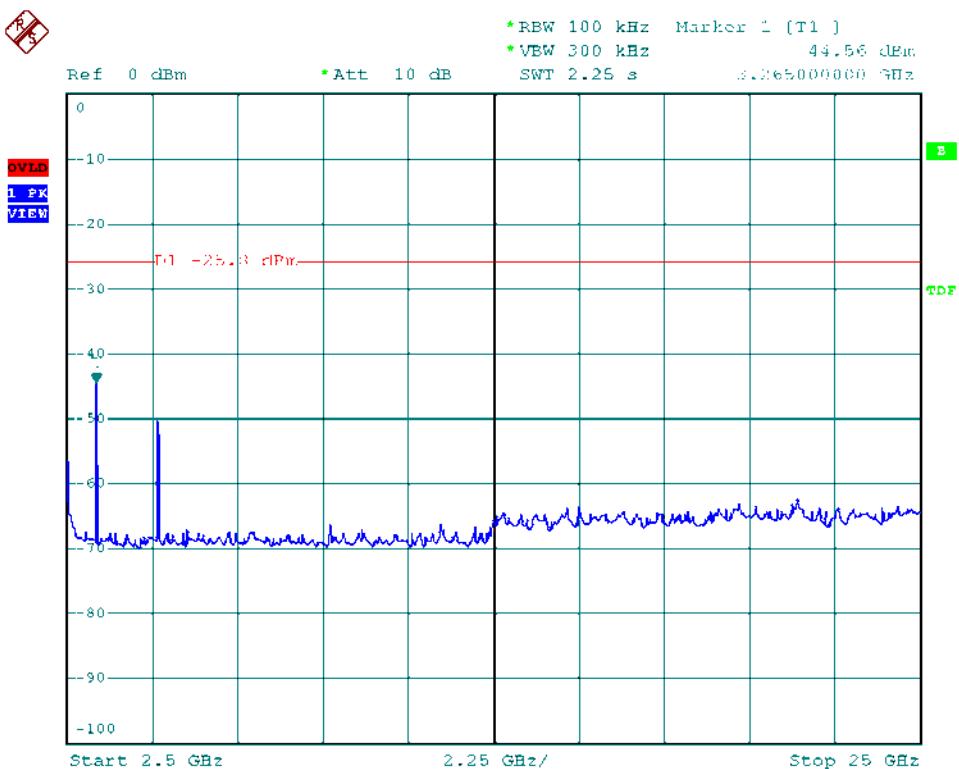
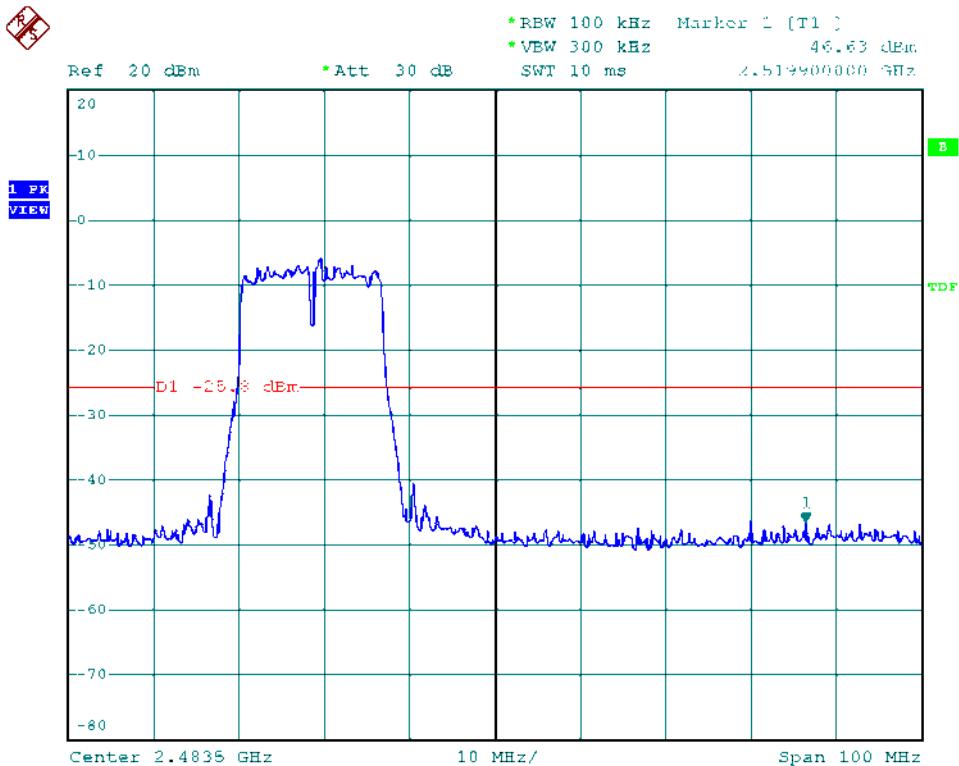


Modulation Standard: 802.11g (54Mbps)
Channel: 01



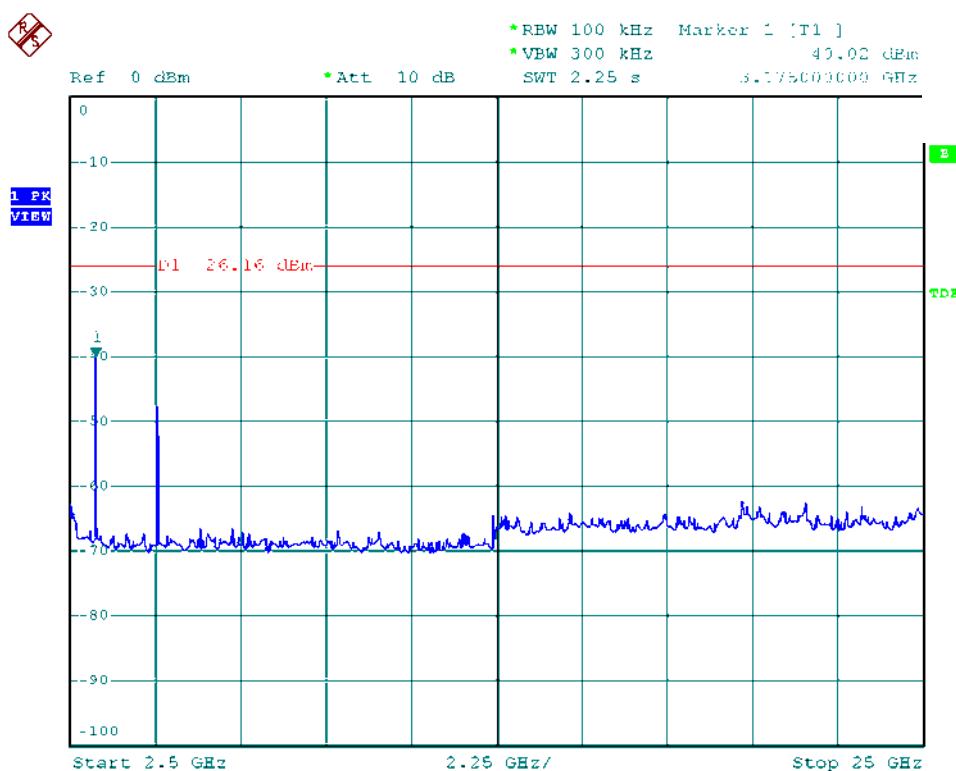
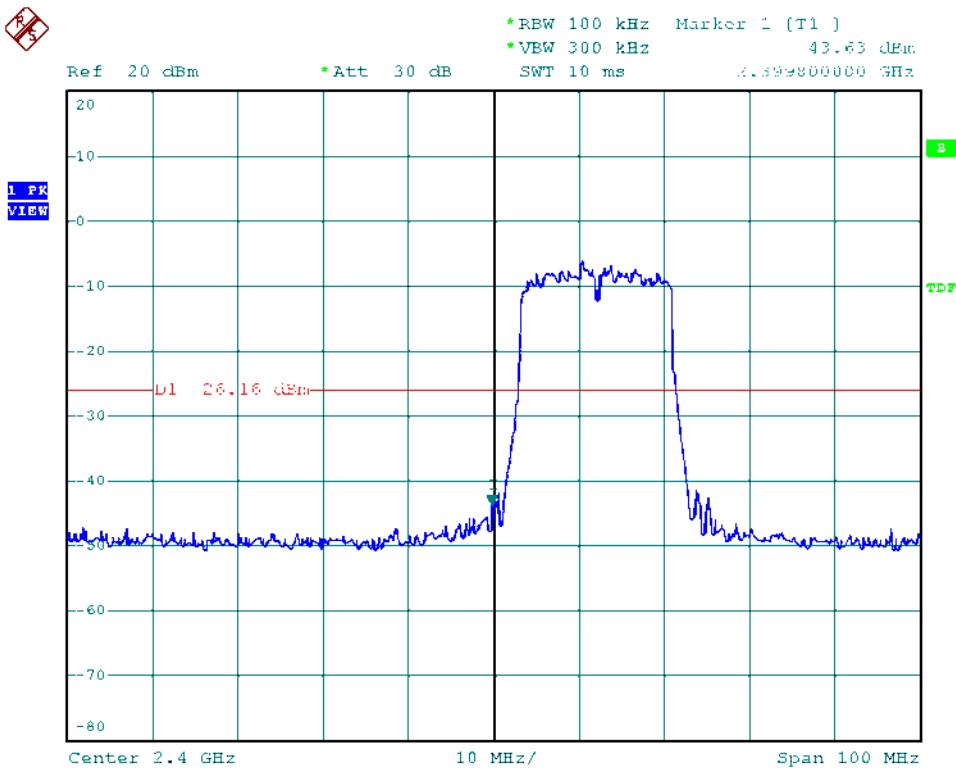


Modulation Standard: 802.11g (54Mbps)
Channel: 11



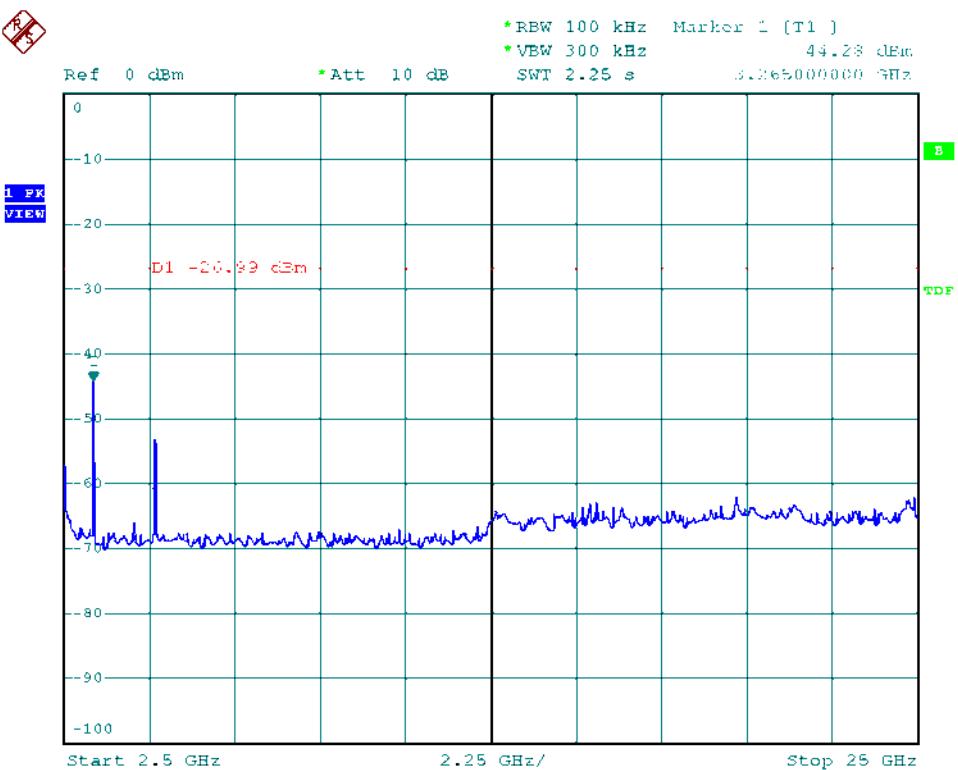
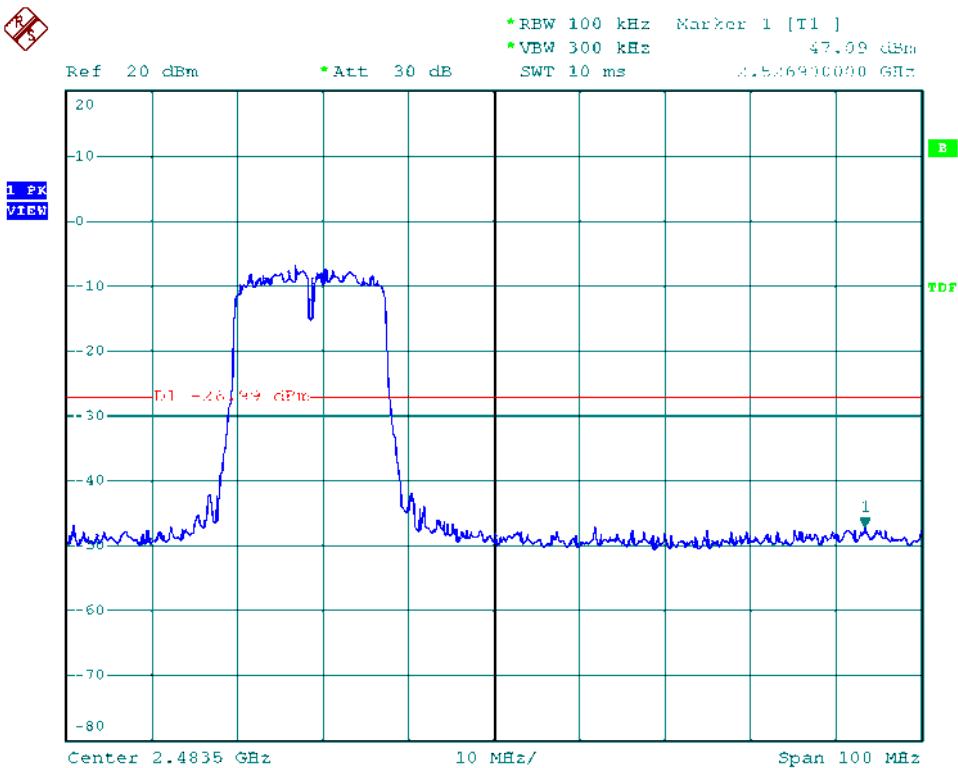


Modulation Standard: 802.11n HT20 (65Mbps)
Channel: 01



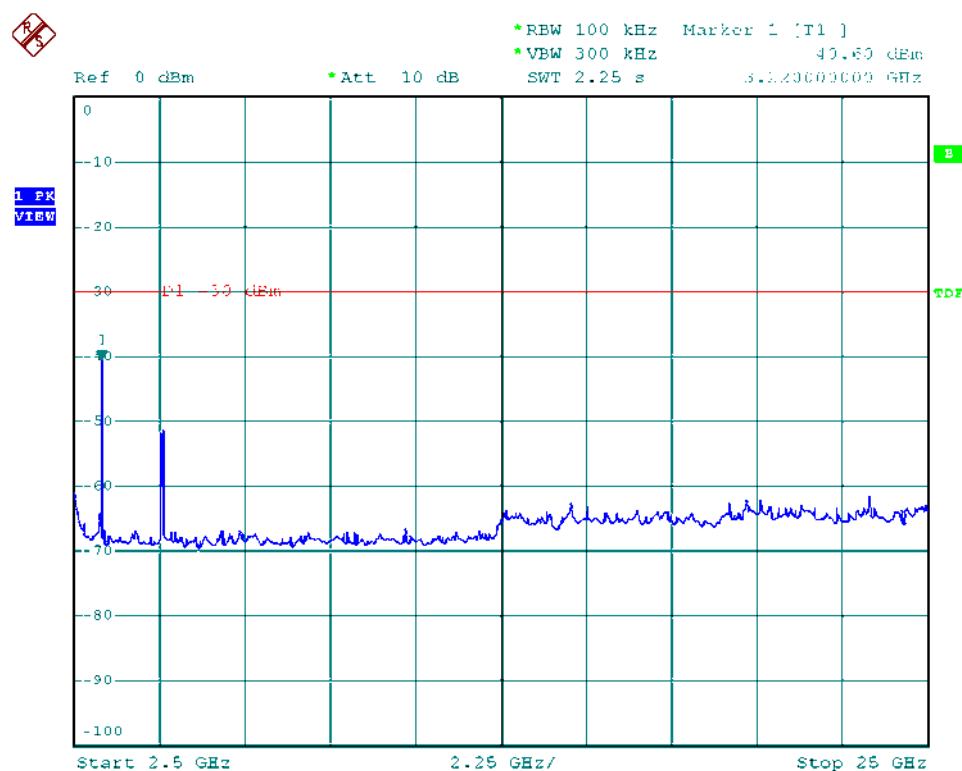
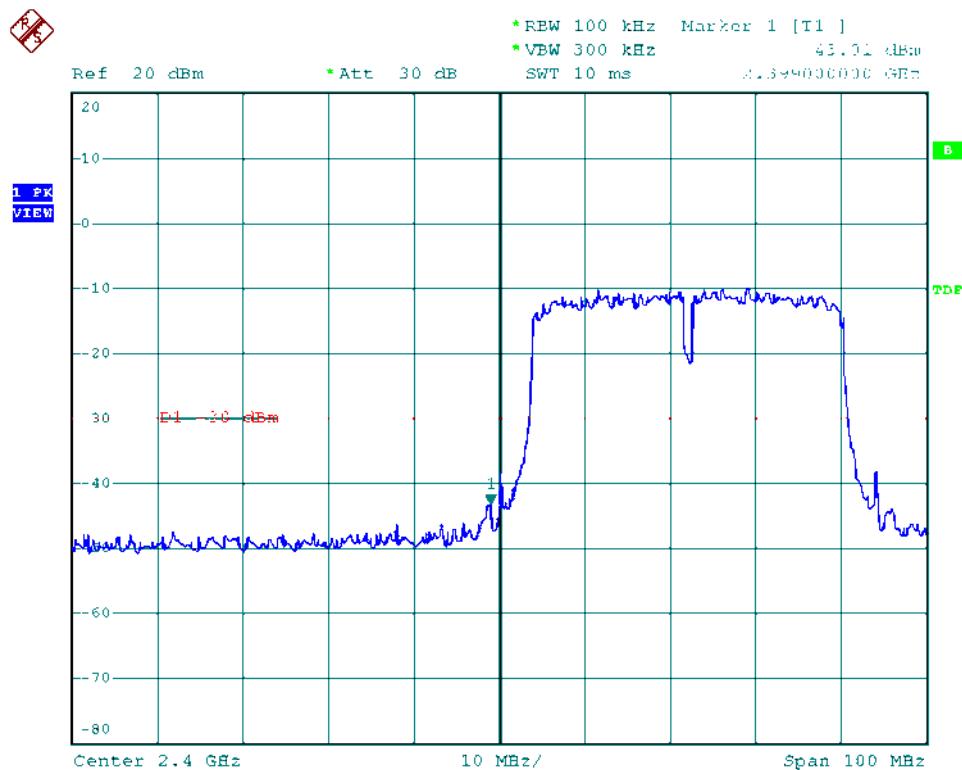


Modulation Standard: 802.11n HT20 (65Mbps)
Channel: 11



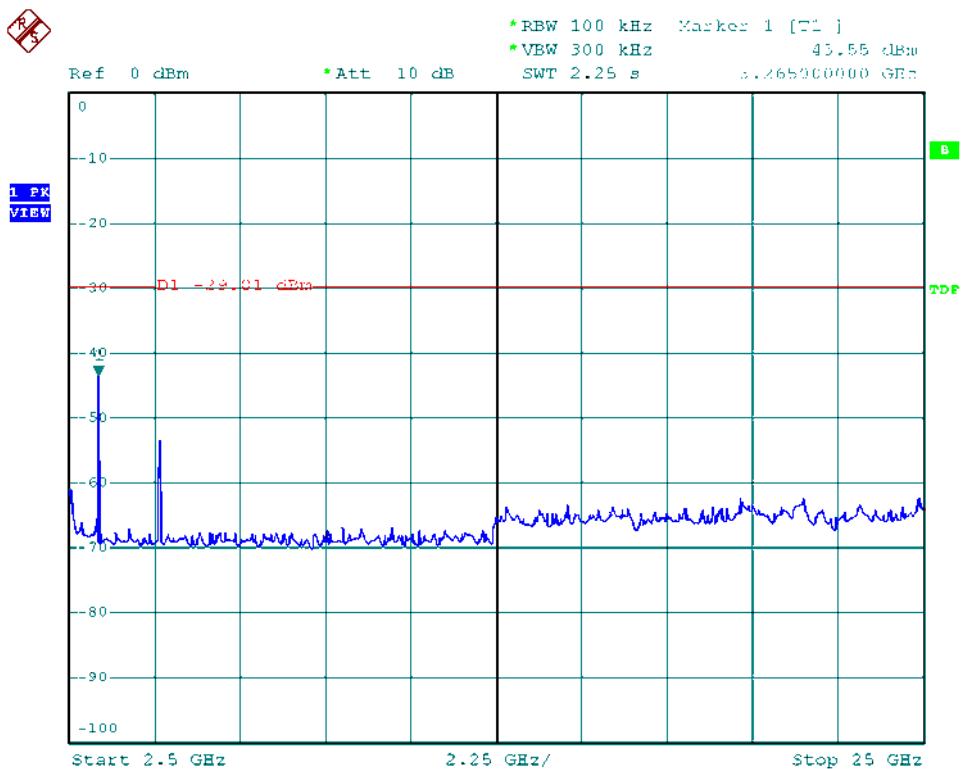
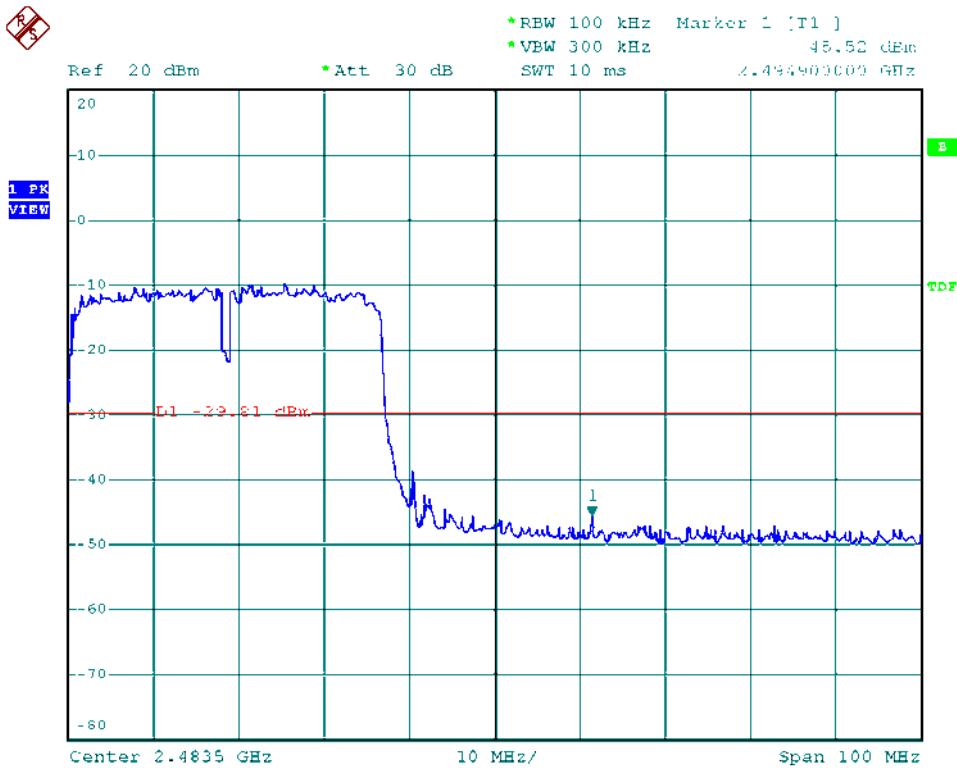


Modulation Standard: 802.11n HT40 (135Mbps)
Channel: 03





Modulation Standard: 802.11n HT40 (135Mbps)
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.