



FCC TEST REPORT

According to

FCC Rules and Regulations Part 15 Subpart C

Applicant	: Loopcomm Technology Inc.
Address	: 6F., No.236, Bo'ai St., Shulin Dist., New Taipei City 238, Taiwan (R.O.C.)
Equipment	: 802.11 a/b/g/n Wireless USB Adapter
Model No.	: LP-7767
Trade Name	: Loopcomm
FCC ID:	: VYTLP-7767

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **CerpPASS Technology Corp.**, the test report shall not be reproduced except in full.
- 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 : Loopcomm Technology Inc.
Address : 6F., No.236, Bo'ai St., Shulin Dist.,
New Taipei City 238, Taiwan (R.O.C.)
Equipment : 802.11 a/b/g/n Wireless USB Adapter
Model No. : LP-7767
FCC ID: : VYTLP-7767

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 Jun. 29, 2012 at CerpPASS Technology Corp.

Approved by:

Tested by:

Hill Chen
EMC/RF B.U. Assistant Manager

Ben Lu
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

- Support advanced 2x2 MIMO Technology with up to 300Mbps PHY rate for both Transmitting and Receiving.
- Complies with 2.4GHz IEEE802.11b/g/n and 5GHz IEEE802.11a standards
- Support 20MHz and 40MHz bandwidth.
- Wireless security- 64/128bit WEP, WPA and WPA2
- QoS enhancement-WMM, WMM-PS
- Link/Activity LED indicator
- USB 2.0 Interface
- Support Soft AP

2.2 Carrier Frequency of Channels

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

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

802.11n, HT 40(2422MHz~2452MHz)

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

802.11a, 802.11an HT 20(5725MHz~5850MHz)

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

802.11an HT 40(5755MHz~5795MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
151	5755	159	5795
155	5775	---	---



2.3 Test Mode and Test Software


- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive program "QA.Test" under XP was executed to keep transmitting and receiving data via Wireless.
- d. The following test modes were performed for test:
 - Test mode1. Antenna type: Dipole Antenna
 - 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
 - 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
 - 802.11a/ an HT20: CH149: 5745MHz, CH157: 5785MHz, CH165: 5825MHz
 - 802.11an HT40: CH151: 5755MHz, CH159: 5795MHz
 - Test mode2. Antenna type: PCB Antenna
 - 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
 - 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
 - 802.11a/ an HT20: CH149: 5745MHz, CH157: 5785MHz, CH165: 5825MHz
 - 802.11an HT40: CH151: 5755MHz, CH159: 5795MHz

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Notebook	DELL	INSPIRON 510m	Power Cable, Unshielding 1.8m



2.5 General Information of Test

Test Site :	CerpPASS 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	

2.6 Measurement Uncertainty

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



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

802.11b/g/n:

ANT R, ANT L

Antenna Gain: 2 dBi

Directional gain = $G_{ANT} + 10 \log(N)$ dBi = $2 + 10 \log(2) = 5.01$ (dBi)

802.11a, an:

ANT R, ANT L

Antenna Gain: 4 dBi

Directional gain = $G_{ANT} + 10 \log(N)$ dBi = $4 + 10 \log(2) = 7.01$ (dBi)

Antenna Type: PCB Antenna

802.11b/g/n:

ANT R, ANT L

Antenna Gain: 4 dBi

Directional gain = $G_{ANT} + 10 \log(N)$ dBi = $4 + 10 \log(2) = 7.01$ (dBi)

802.11a, an:

ANT R, ANT L

Antenna Gain: 6 dBi

Directional gain = $G_{ANT} + 10 \log(N)$ dBi = $6 + 10 \log(2) = 9.01$ (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

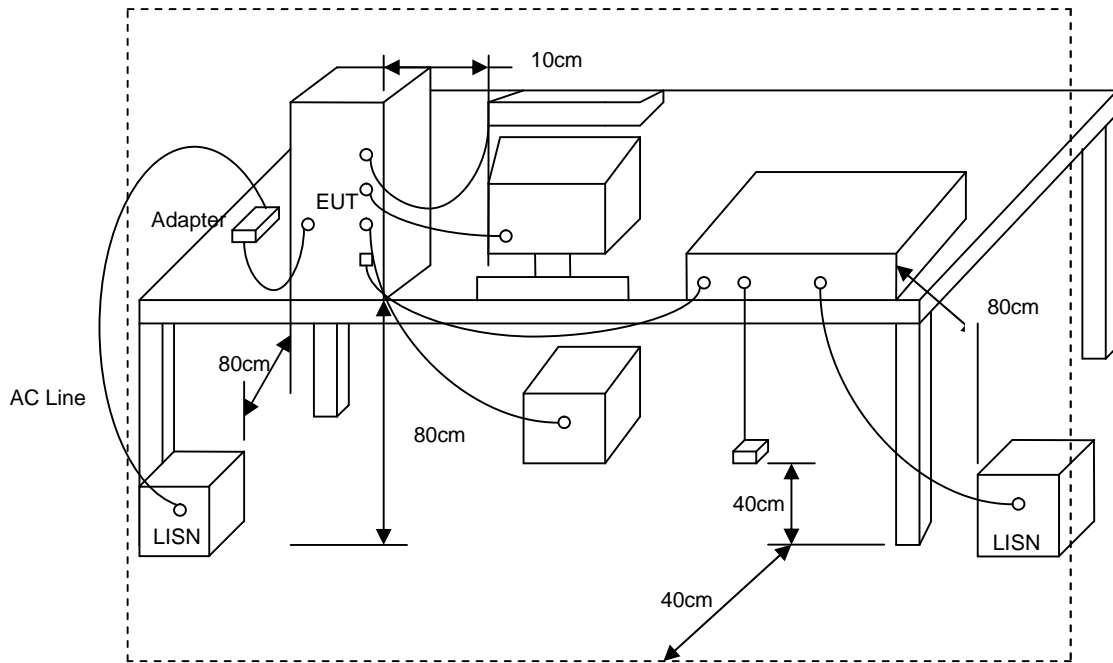
*Decreases with the logarithm of the frequency.

4.2 Test Procedures

- 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



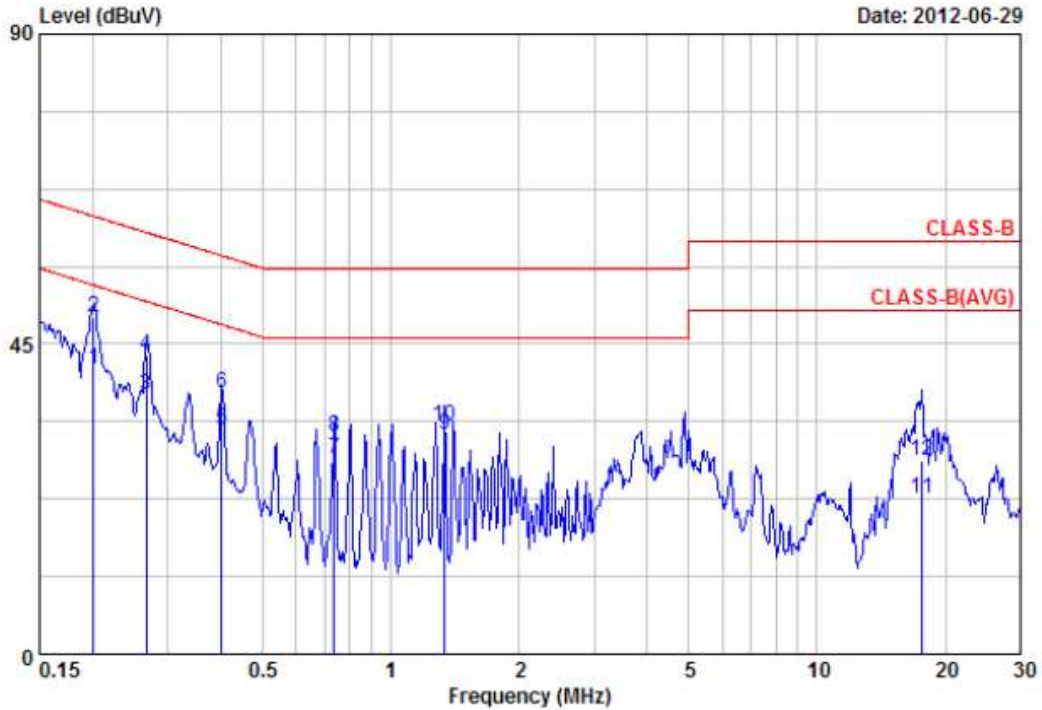
4.4 Measurement Equipment

Instrument/ Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100443	2012/01/12	2013/01/11
LISN	Schwarzbeck	NSLK 8127	8127-516	2012/03/08	2013/03/07
LISN	Schwarzbeck	NSLK 8127	8127-568	2011/08/24	2012/08/23



4.5 Test Result and Data

Power	: From System	Pol/Phase	: LINE
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



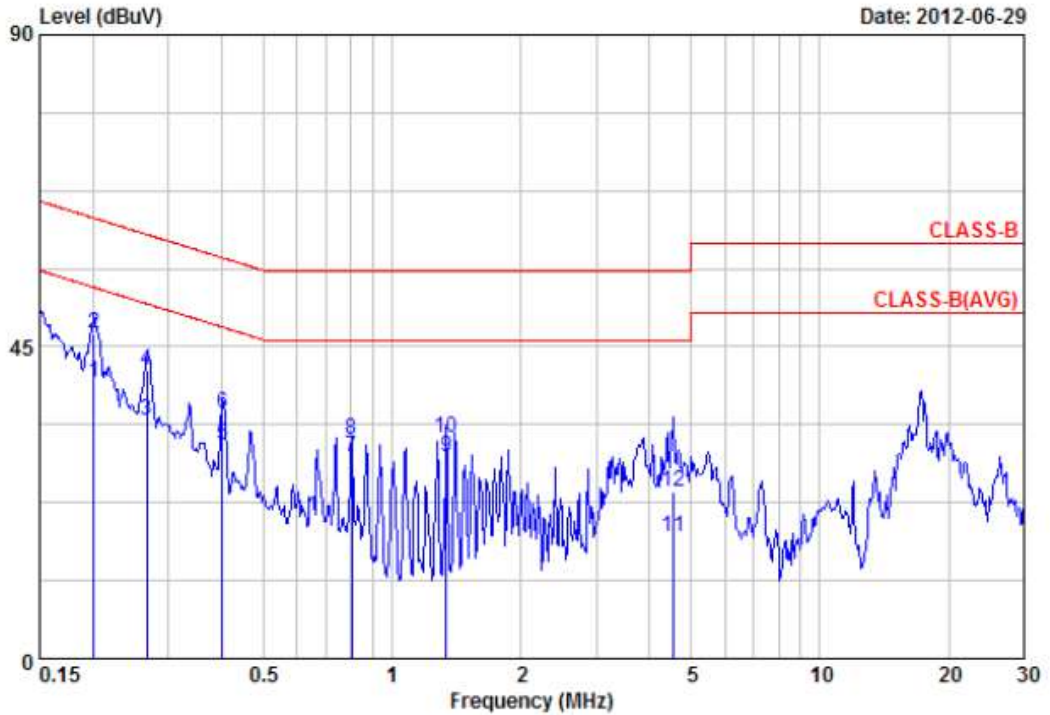
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	41.17	0.12	41.29	53.58	-12.29	Average
2	0.20	48.69	0.12	48.81	63.58	-14.77	QP
3	0.27	37.49	0.12	37.61	51.20	-13.59	Average
4	0.27	43.32	0.12	43.44	61.20	-17.76	QP
5	0.40	32.54	0.13	32.67	47.81	-15.14	Average
6	0.40	37.70	0.13	37.83	57.81	-19.98	QP
7	0.74	28.17	0.17	28.34	46.00	-17.66	Average
8	0.74	31.30	0.17	31.47	56.00	-24.53	QP
9	1.34	31.73	0.22	31.95	46.00	-14.05	Average
10	1.34	32.90	0.22	33.12	56.00	-22.88	QP
11	17.66	21.57	0.90	22.47	50.00	-27.53	Average
12	17.66	27.18	0.90	28.08	60.00	-31.92	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



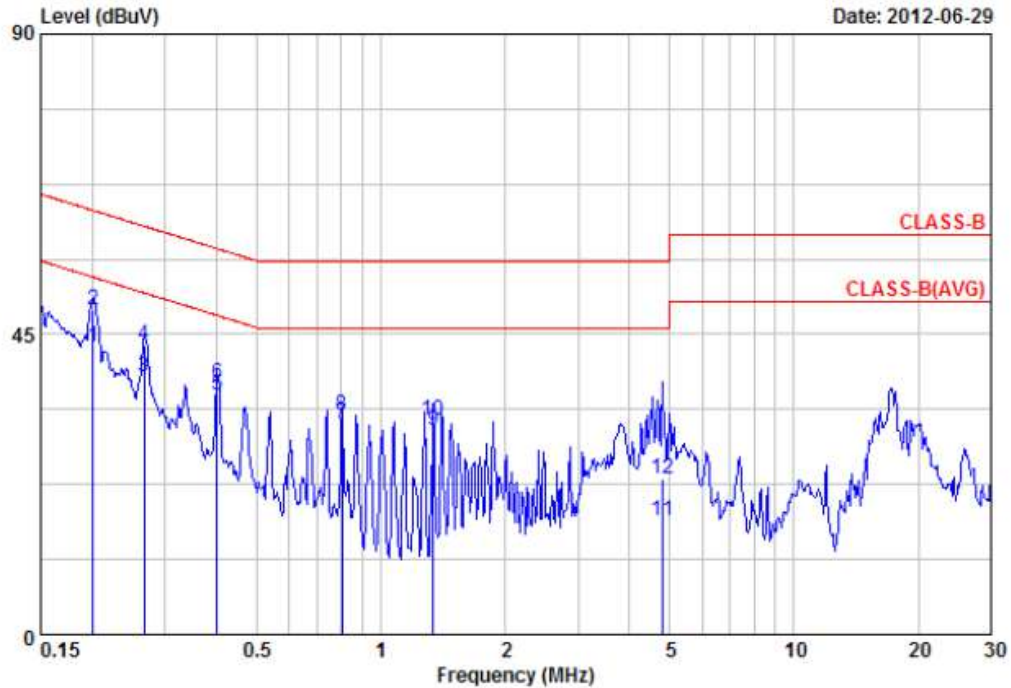
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	39.74	0.10	39.84	53.58	-13.74	Average
2	0.20	46.76	0.10	46.86	63.58	-16.72	QP
3	0.27	34.18	0.10	34.28	51.20	-16.92	Average
4	0.27	41.59	0.10	41.69	61.20	-19.51	QP
5	0.40	30.77	0.12	30.89	47.81	-16.92	Average
6	0.40	35.23	0.12	35.35	57.81	-22.46	QP
7	0.80	28.85	0.16	29.01	46.00	-16.99	Average
8	0.80	31.47	0.16	31.63	56.00	-24.37	QP
9	1.34	28.95	0.20	29.15	46.00	-16.85	Average
10	1.34	31.59	0.20	31.79	56.00	-24.21	QP
11	4.53	17.21	0.34	17.55	46.00	-28.45	Average
12	4.53	23.71	0.34	24.05	56.00	-31.95	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



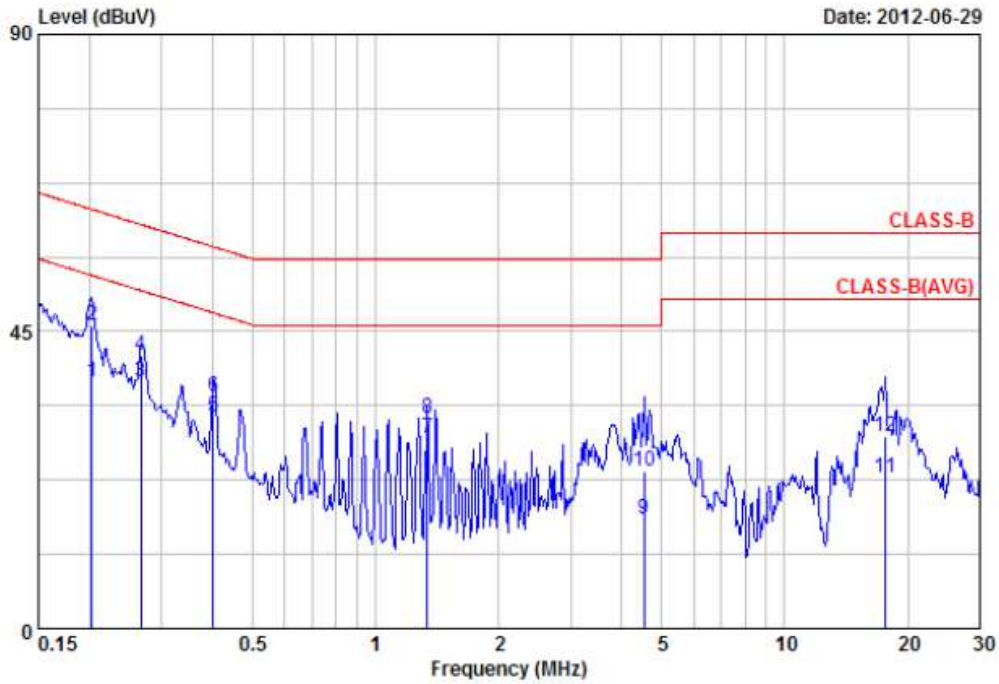
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	42.92	0.12	43.04	53.58	-10.54	Average
2	0.20	48.50	0.12	48.62	63.58	-14.96	QP
3	0.27	38.60	0.12	38.72	51.20	-12.48	Average
4	0.27	43.19	0.12	43.31	61.20	-17.89	QP
5	0.40	35.81	0.13	35.94	47.81	-11.87	Average
6	0.40	37.49	0.13	37.62	57.81	-20.19	QP
7	0.80	31.49	0.18	31.67	46.00	-14.33	Average
8	0.80	32.63	0.18	32.81	56.00	-23.19	QP
9	1.34	30.41	0.22	30.63	46.00	-15.37	Average
10	1.34	31.79	0.22	32.01	56.00	-23.99	QP
11	4.80	16.64	0.38	17.02	46.00	-28.98	Average
12	4.80	22.90	0.38	23.28	56.00	-32.72	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



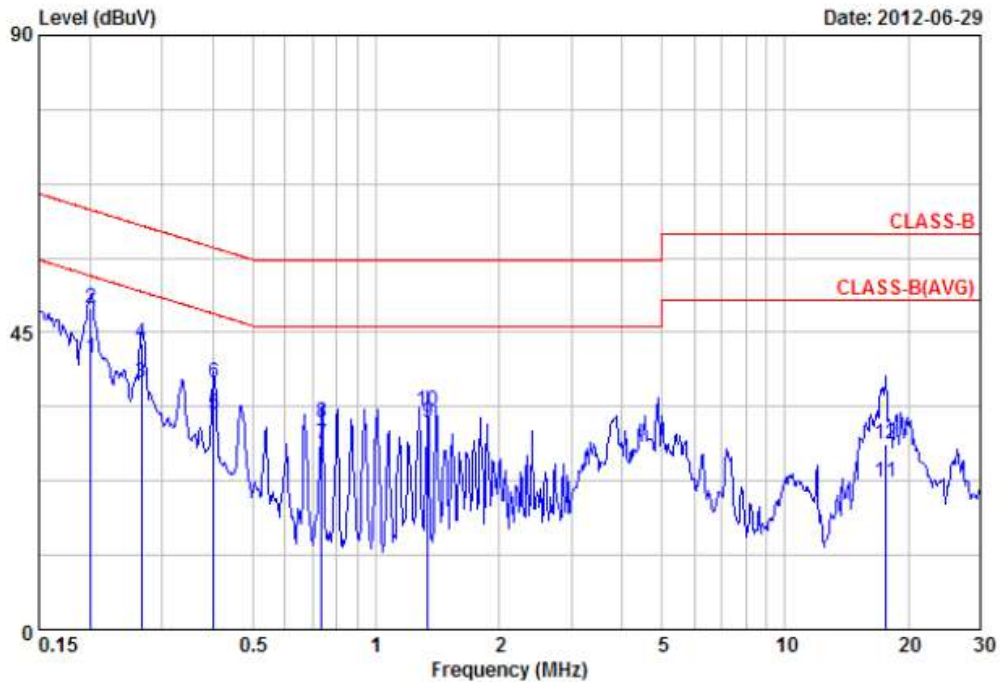
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	37.30	0.10	37.40	53.49	-16.09	Average
2	0.20	45.78	0.10	45.88	63.49	-17.61	QP
3	0.27	37.17	0.10	37.27	51.20	-13.93	Average
4	0.27	41.37	0.10	41.47	61.20	-19.73	QP
5	0.40	31.88	0.12	32.00	47.81	-15.81	Average
6	0.40	34.93	0.12	35.05	57.81	-22.76	QP
7	1.34	28.69	0.20	28.89	46.00	-17.11	Average
8	1.34	31.53	0.20	31.73	56.00	-24.27	QP
9	4.53	16.14	0.34	16.48	46.00	-29.52	Average
10	4.53	23.43	0.34	23.77	56.00	-32.23	QP
11	17.59	22.23	0.69	22.92	50.00	-27.08	Average
12	17.59	28.51	0.69	29.20	60.00	-30.80	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



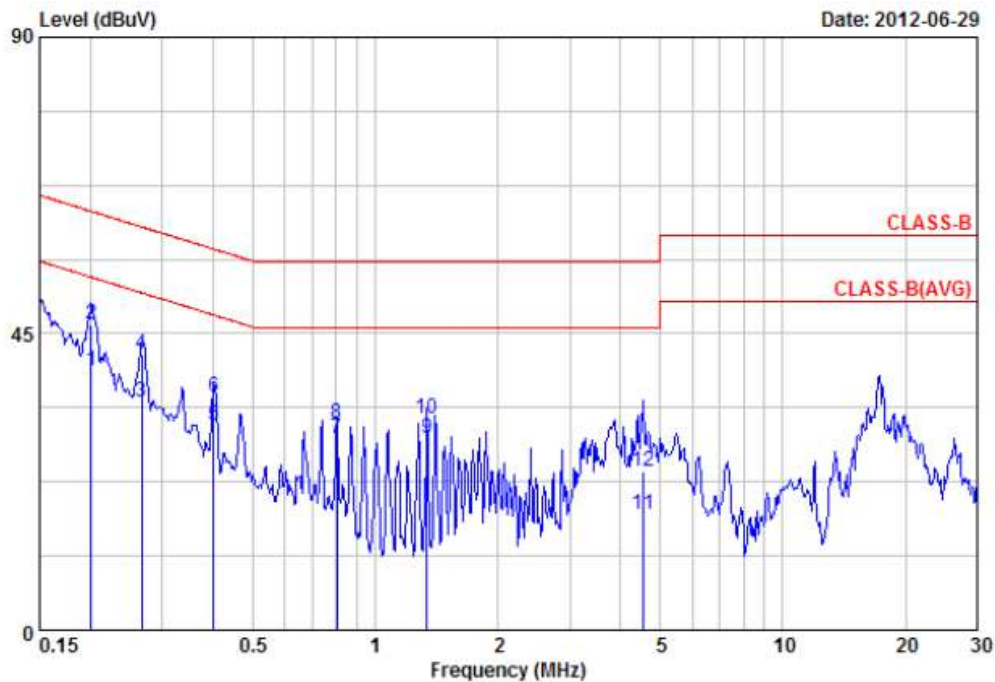
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	41.07	0.12	41.19	53.58	-12.39	Average
2	0.20	48.41	0.12	48.53	63.58	-15.05	QP
3	0.27	37.24	0.12	37.36	51.20	-13.84	Average
4	0.27	43.17	0.12	43.29	61.20	-17.91	QP
5	0.40	32.53	0.13	32.66	47.81	-15.15	Average
6	0.40	37.35	0.13	37.48	57.81	-20.33	QP
7	0.74	28.02	0.17	28.19	46.00	-17.81	Average
8	0.74	31.18	0.17	31.35	56.00	-24.65	QP
9	1.34	31.11	0.22	31.33	46.00	-14.67	Average
10	1.34	32.86	0.22	33.08	56.00	-22.92	QP
11	17.66	21.47	0.90	22.37	50.00	-27.63	Average
12	17.66	27.19	0.90	28.09	60.00	-31.91	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



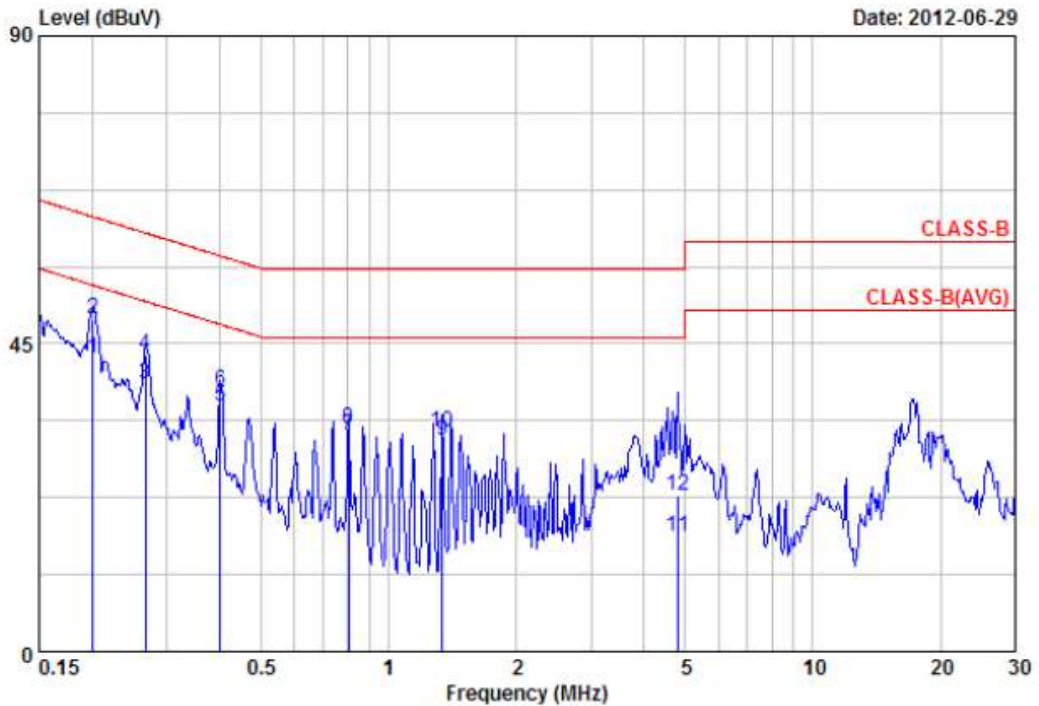
Item	Freq MHz	Read		Result dBuV/m	Limit dBuV/m	Margin dB	Remark
		Value dBuV	Factor dB/m				
1	0.20	39.22	0.10	39.32	53.58	-14.26	Average
2	0.20	46.40	0.10	46.50	63.58	-17.08	QP
3	0.27	34.61	0.10	34.71	51.20	-16.49	Average
4	0.27	41.85	0.10	41.95	61.20	-19.25	QP
5	0.40	30.97	0.12	31.09	47.81	-16.72	Average
6	0.40	35.35	0.12	35.47	57.81	-22.34	QP
7	0.80	28.95	0.16	29.11	46.00	-16.89	Average
8	0.80	31.16	0.16	31.32	56.00	-24.68	QP
9	1.34	28.84	0.20	29.04	46.00	-16.96	Average
10	1.34	31.84	0.20	32.04	56.00	-23.96	QP
11	4.53	17.14	0.34	17.48	46.00	-28.52	Average
12	4.53	23.74	0.34	24.08	56.00	-31.92	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 1	: 802.11a, CH149	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



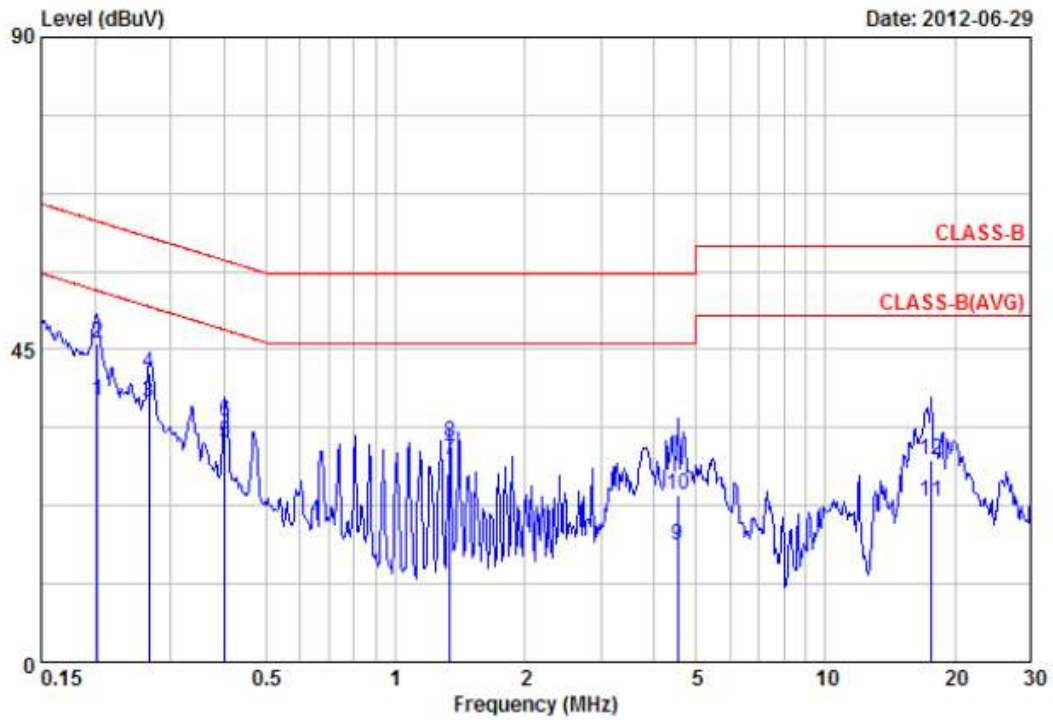
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	42.66	0.12	42.78	53.58	-10.80	Average
2	0.20	48.57	0.12	48.69	63.58	-14.89	QP
3	0.27	38.94	0.12	39.06	51.20	-12.14	Average
4	0.27	43.17	0.12	43.29	61.20	-17.91	QP
5	0.40	35.67	0.13	35.80	47.81	-12.01	Average
6	0.40	37.87	0.13	38.00	57.81	-19.81	QP
7	0.80	31.49	0.18	31.67	46.00	-14.33	Average
8	0.80	32.30	0.18	32.48	56.00	-23.52	QP
9	1.34	30.67	0.22	30.89	46.00	-15.11	Average
10	1.34	31.89	0.22	32.11	56.00	-23.89	QP
11	4.80	16.37	0.38	16.75	46.00	-29.25	Average
12	4.80	22.38	0.38	22.76	56.00	-33.24	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11a, CH149	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



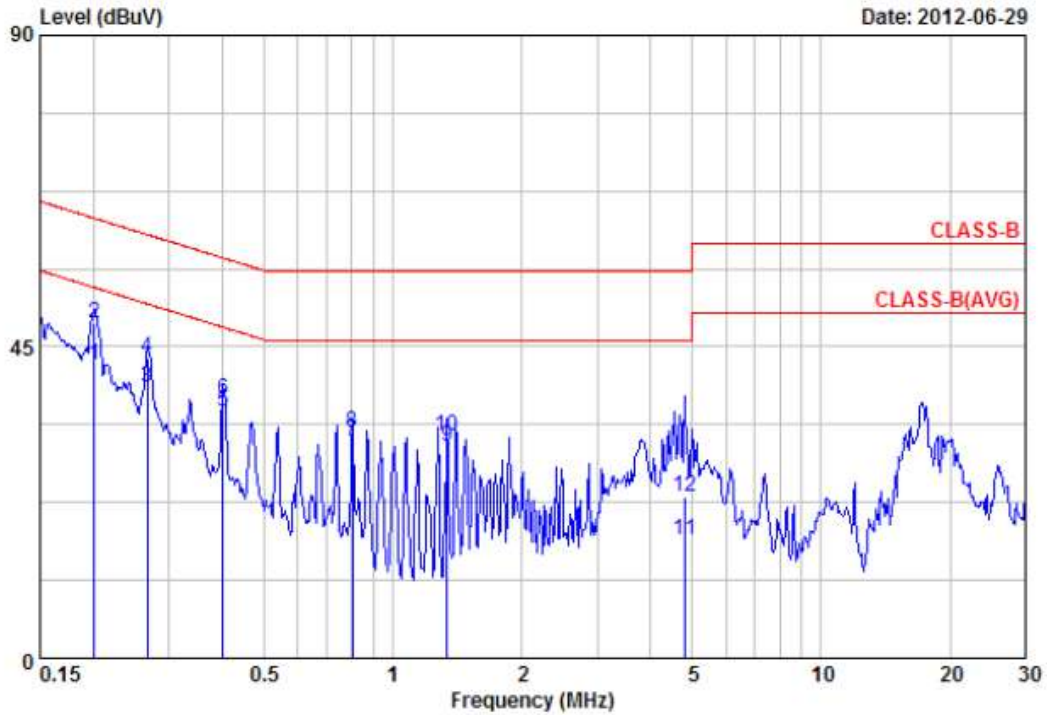
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	37.46	0.10	37.56	53.49	-15.93	Average
2	0.20	45.75	0.10	45.85	63.49	-17.64	QP
3	0.27	37.16	0.10	37.26	51.20	-13.94	Average
4	0.27	41.55	0.10	41.65	61.20	-19.55	QP
5	0.40	31.56	0.12	31.68	47.81	-16.13	Average
6	0.40	34.42	0.12	34.54	57.81	-23.27	QP
7	1.34	28.89	0.20	29.09	46.00	-16.91	Average
8	1.34	31.31	0.20	31.51	56.00	-24.49	QP
9	4.53	16.39	0.34	16.73	46.00	-29.27	Average
10	4.53	23.69	0.34	24.03	56.00	-31.97	QP
11	17.59	22.42	0.69	23.11	50.00	-26.89	Average
12	17.59	28.45	0.69	29.14	60.00	-30.86	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 1	: 802.11an HT20, CH149	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



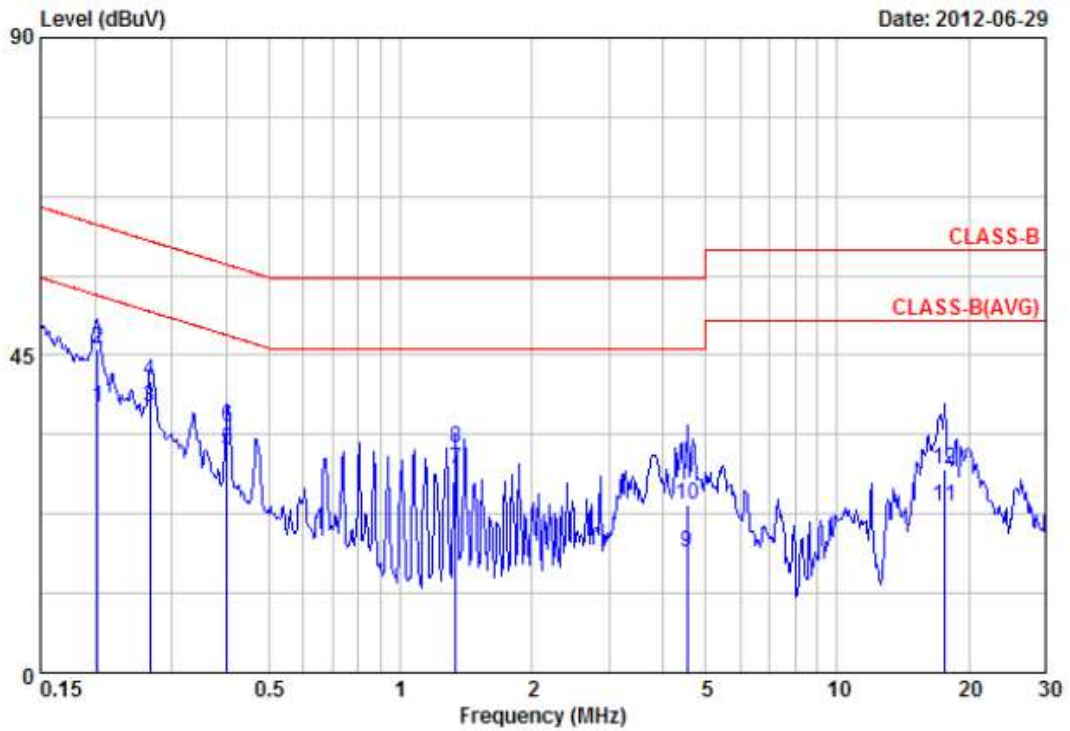
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	42.17	0.12	42.29	53.58	-11.29	Average
2	0.20	48.30	0.12	48.42	63.58	-15.16	QP
3	0.27	38.94	0.12	39.06	51.20	-12.14	Average
4	0.27	43.19	0.12	43.31	61.20	-17.89	QP
5	0.40	35.51	0.13	35.64	47.81	-12.17	Average
6	0.40	37.26	0.13	37.39	57.81	-20.42	QP
7	0.80	31.19	0.18	31.37	46.00	-14.63	Average
8	0.80	32.30	0.18	32.48	56.00	-23.52	QP
9	1.34	30.41	0.22	30.63	46.00	-15.37	Average
10	1.34	31.89	0.22	32.11	56.00	-23.89	QP
11	4.80	16.64	0.38	17.02	46.00	-28.98	Average
12	4.80	22.88	0.38	23.26	56.00	-32.74	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11an HT20, CH149	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



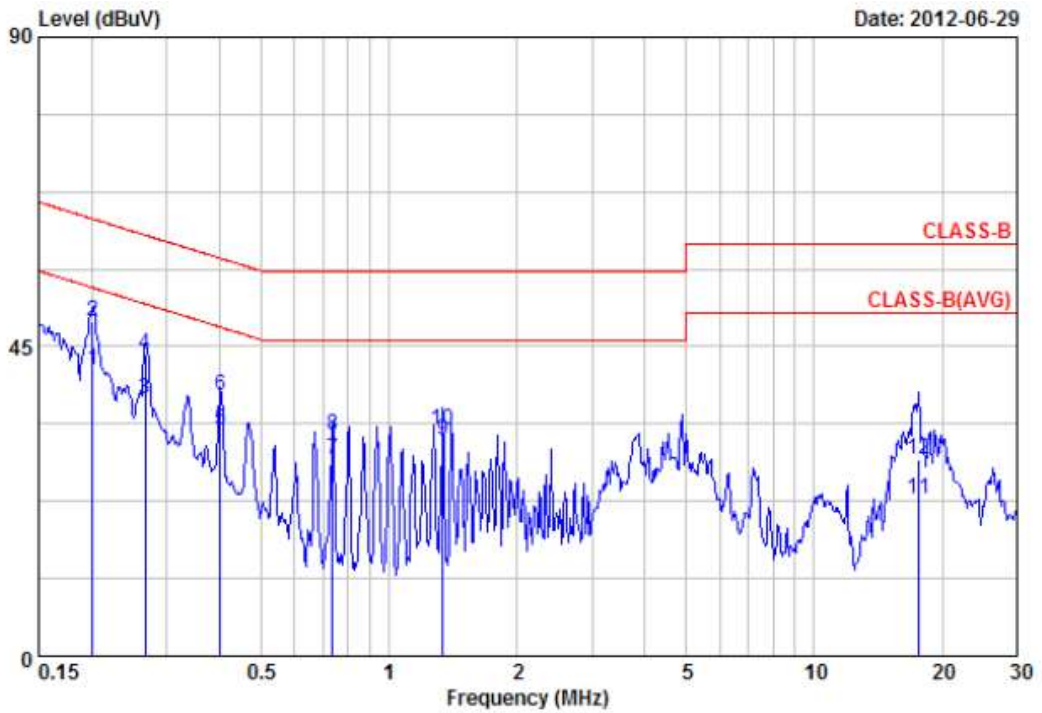
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	37.55	0.10	37.65	53.49	-15.84	Average
2	0.20	45.68	0.10	45.78	63.49	-17.71	QP
3	0.27	37.38	0.10	37.48	51.20	-13.72	Average
4	0.27	41.27	0.10	41.37	61.20	-19.83	QP
5	0.40	31.36	0.12	31.48	47.81	-16.33	Average
6	0.40	34.66	0.12	34.78	57.81	-23.03	QP
7	1.34	28.57	0.20	28.77	46.00	-17.23	Average
8	1.34	31.53	0.20	31.73	56.00	-24.27	QP
9	4.53	16.66	0.34	17.00	46.00	-29.00	Average
10	4.53	23.43	0.34	23.77	56.00	-32.23	QP
11	17.59	22.84	0.69	23.53	50.00	-26.47	Average
12	17.59	28.13	0.69	28.82	60.00	-31.18	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 1	: 802.11an HT40, CH151	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



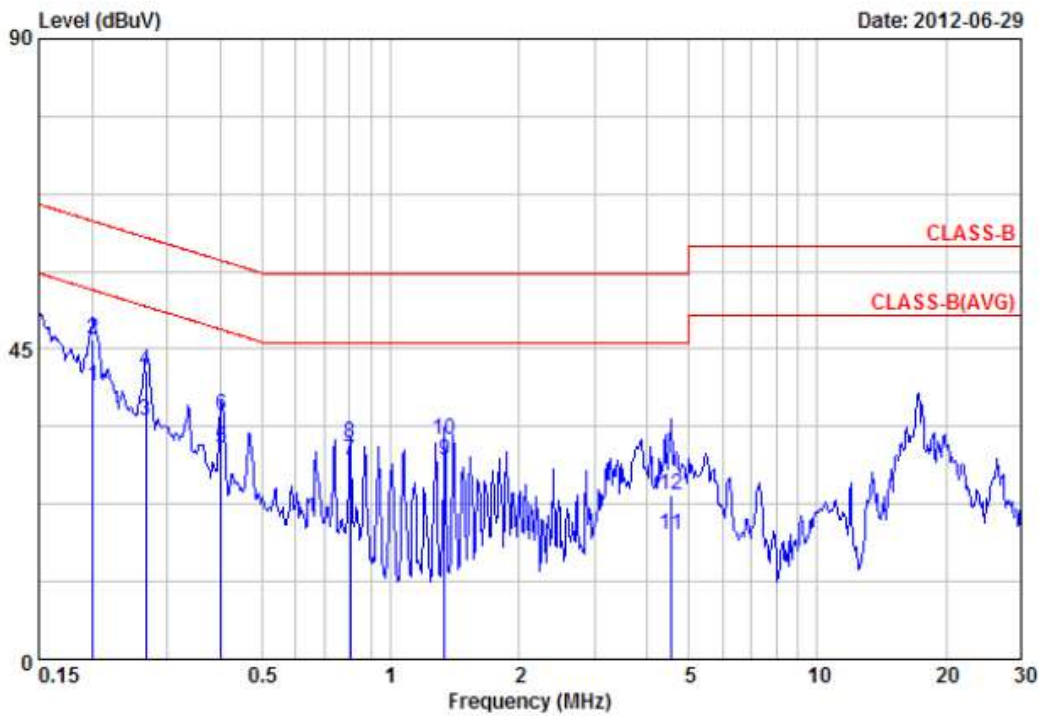
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	41.51	0.12	41.63	53.58	-11.95	Average
2	0.20	48.47	0.12	48.59	63.58	-14.99	QP
3	0.27	37.24	0.12	37.36	51.20	-13.84	Average
4	0.27	43.87	0.12	43.99	61.20	-17.21	QP
5	0.40	32.73	0.13	32.86	47.81	-14.95	Average
6	0.40	37.78	0.13	37.91	57.81	-19.90	QP
7	0.74	28.52	0.17	28.69	46.00	-17.31	Average
8	0.74	31.83	0.17	32.00	56.00	-24.00	QP
9	1.34	31.11	0.22	31.33	46.00	-14.67	Average
10	1.34	32.57	0.22	32.79	56.00	-23.21	QP
11	17.66	21.87	0.90	22.77	50.00	-27.23	Average
12	17.66	27.69	0.90	28.59	60.00	-31.41	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11an HT40, CH151	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



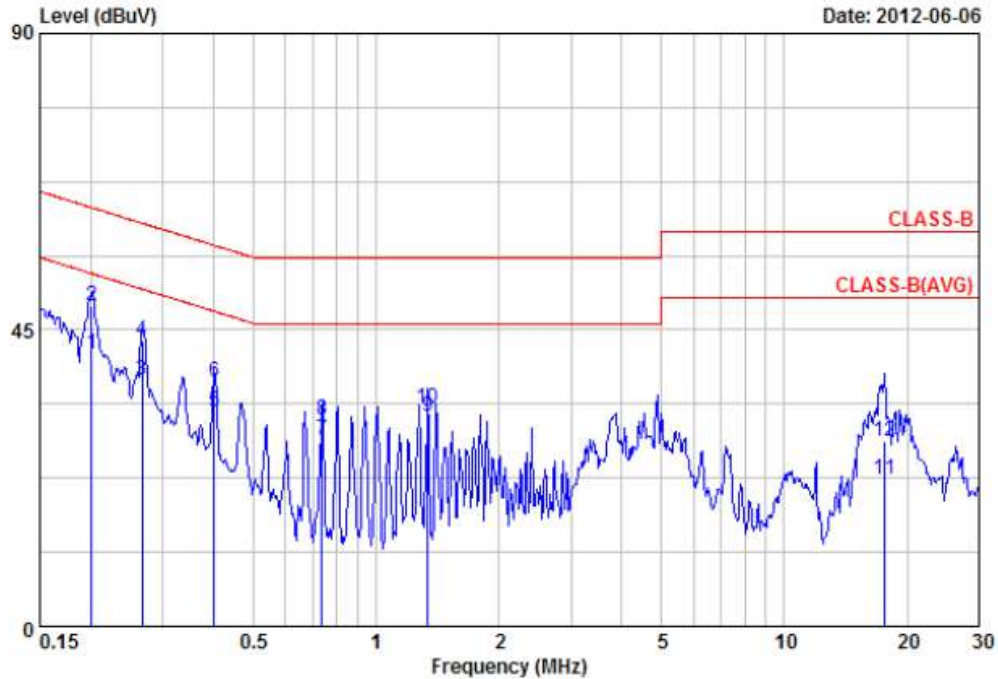
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	39.46	0.10	39.56	53.58	-14.02	Average
2	0.20	46.24	0.10	46.34	63.58	-17.24	QP
3	0.27	34.61	0.10	34.71	51.20	-16.49	Average
4	0.27	41.84	0.10	41.94	61.20	-19.26	QP
5	0.40	30.47	0.12	30.59	47.81	-17.22	Average
6	0.40	35.35	0.12	35.47	57.81	-22.34	QP
7	0.80	28.65	0.16	28.81	46.00	-17.19	Average
8	0.80	31.15	0.16	31.31	56.00	-24.69	QP
9	1.34	28.64	0.20	28.84	46.00	-17.16	Average
10	1.34	31.54	0.20	31.74	56.00	-24.26	QP
11	4.53	17.62	0.34	17.96	46.00	-28.04	Average
12	4.53	23.44	0.34	23.78	56.00	-32.22	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 2	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



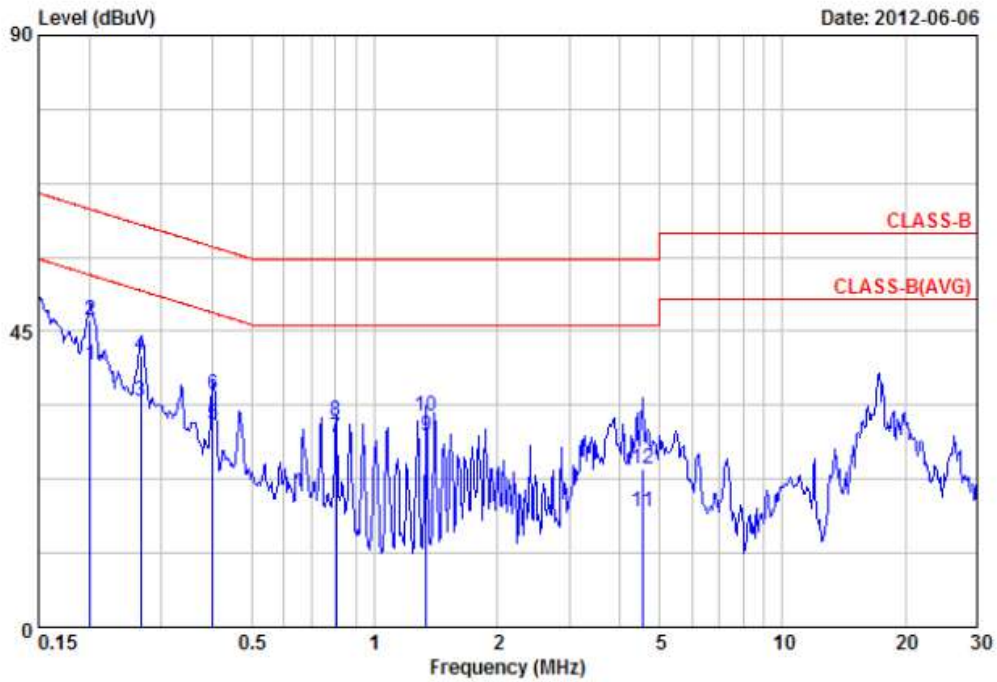
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	41.12	0.12	41.24	53.58	-12.34	Average
2	0.20	48.61	0.12	48.73	63.58	-14.85	QP
3	0.27	37.15	0.12	37.27	51.20	-13.93	Average
4	0.27	43.30	0.12	43.42	61.20	-17.78	QP
5	0.40	32.56	0.13	32.69	47.81	-15.12	Average
6	0.40	37.07	0.13	37.20	57.81	-20.61	QP
7	0.74	28.11	0.17	28.28	46.00	-17.72	Average
8	0.74	31.21	0.17	31.38	56.00	-24.62	QP
9	1.34	31.74	0.22	31.96	46.00	-14.04	Average
10	1.34	32.87	0.22	33.09	56.00	-22.91	QP
11	17.66	21.51	0.90	22.41	50.00	-27.59	Average
12	17.66	27.15	0.90	28.05	60.00	-31.95	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



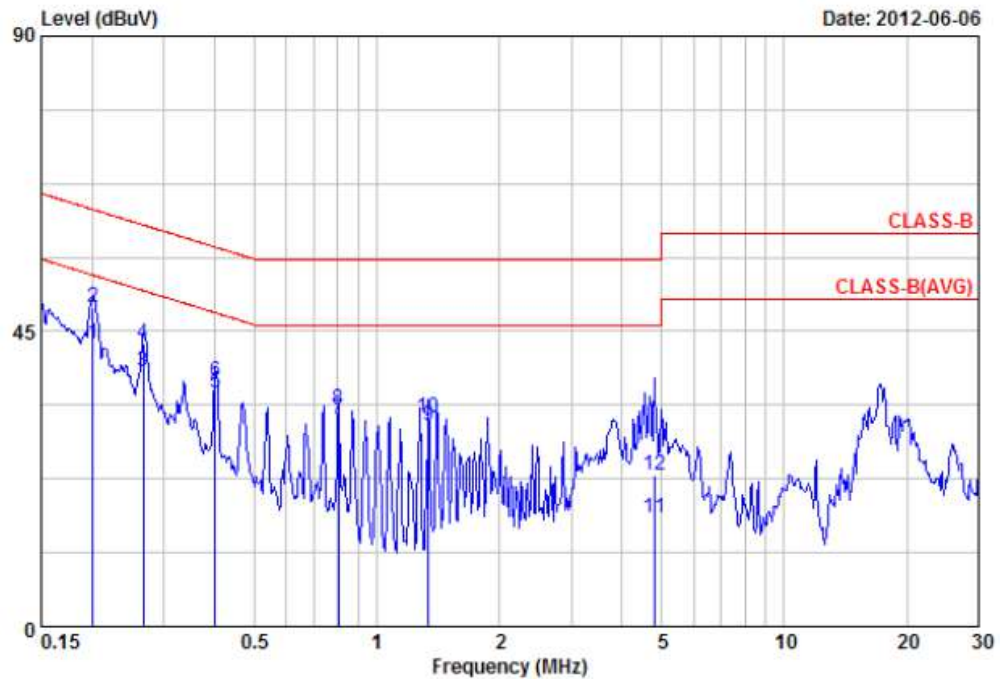
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	39.74	0.10	39.84	53.58	-13.74	Average
2	0.20	46.48	0.10	46.58	63.58	-17.00	QP
3	0.27	34.20	0.10	34.30	51.20	-16.90	Average
4	0.27	41.36	0.10	41.46	61.20	-19.74	QP
5	0.40	30.70	0.12	30.82	47.81	-16.99	Average
6	0.40	35.29	0.12	35.41	57.81	-22.40	QP
7	0.80	28.68	0.16	28.84	46.00	-17.16	Average
8	0.80	31.14	0.16	31.30	56.00	-24.70	QP
9	1.34	28.91	0.20	29.11	46.00	-16.89	Average
10	1.34	31.86	0.20	32.06	56.00	-23.94	QP
11	4.53	17.32	0.34	17.66	46.00	-28.34	Average
12	4.53	23.74	0.34	24.08	56.00	-31.92	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



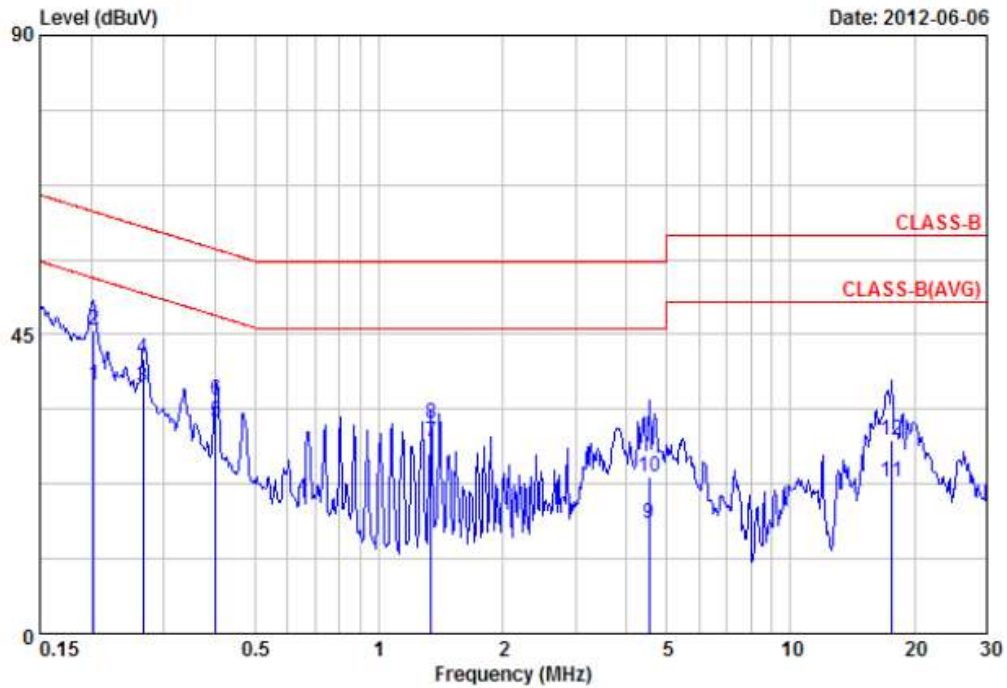
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	42.97	0.12	43.09	53.58	-10.49	Average
2	0.20	48.43	0.12	48.55	63.58	-15.03	QP
3	0.27	38.86	0.12	38.98	51.20	-12.22	Average
4	0.27	43.12	0.12	43.24	61.20	-17.96	QP
5	0.40	35.58	0.13	35.71	47.81	-12.10	Average
6	0.40	37.25	0.13	37.38	57.81	-20.43	QP
7	0.80	31.42	0.18	31.60	46.00	-14.40	Average
8	0.80	32.96	0.18	33.14	56.00	-22.86	QP
9	1.34	30.46	0.22	30.68	46.00	-15.32	Average
10	1.34	31.72	0.22	31.94	56.00	-24.06	QP
11	4.80	16.26	0.38	16.64	46.00	-29.36	Average
12	4.80	22.59	0.38	22.97	56.00	-33.03	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



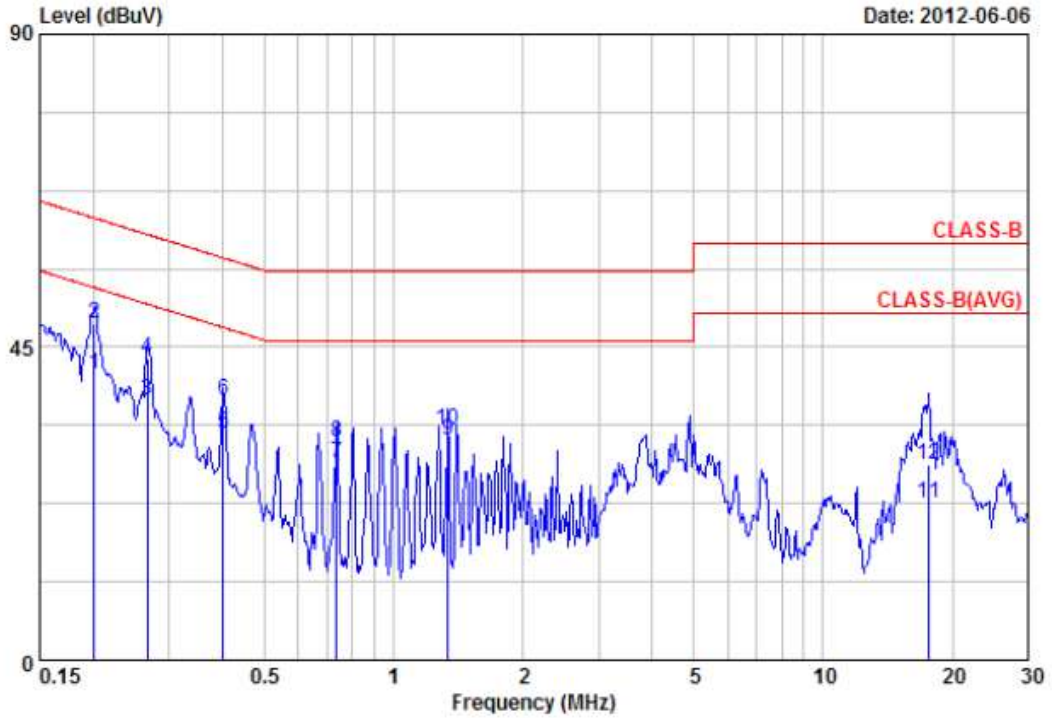
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	37.13	0.10	37.23	53.49	-16.26	Average
2	0.20	45.58	0.10	45.68	63.49	-17.81	QP
3	0.27	37.11	0.10	37.21	51.20	-13.99	Average
4	0.27	41.33	0.10	41.43	61.20	-19.77	QP
5	0.40	31.82	0.12	31.94	47.81	-15.87	Average
6	0.40	34.96	0.12	35.08	57.81	-22.73	QP
7	1.34	28.62	0.20	28.82	46.00	-17.18	Average
8	1.34	31.50	0.20	31.70	56.00	-24.30	QP
9	4.53	16.20	0.34	16.54	46.00	-29.46	Average
10	4.53	23.25	0.34	23.59	56.00	-32.41	QP
11	17.59	22.24	0.69	22.93	50.00	-27.07	Average
12	17.59	28.45	0.69	29.14	60.00	-30.86	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 2	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



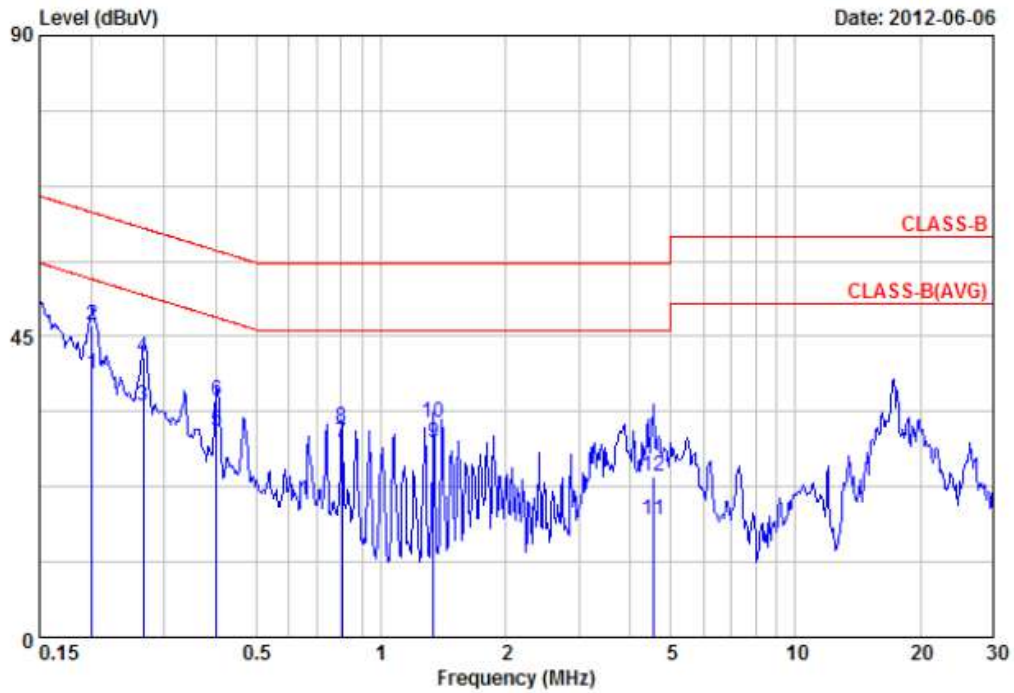
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	41.07	0.12	41.19	53.58	-12.39	Average
2	0.20	48.34	0.12	48.46	63.58	-15.12	QP
3	0.27	37.13	0.12	37.25	51.20	-13.95	Average
4	0.27	43.16	0.12	43.28	61.20	-17.92	QP
5	0.40	32.57	0.13	32.70	47.81	-15.11	Average
6	0.40	37.13	0.13	37.26	57.81	-20.55	QP
7	0.74	28.05	0.17	28.22	46.00	-17.78	Average
8	0.74	31.18	0.17	31.35	56.00	-24.65	QP
9	1.34	31.42	0.22	31.64	46.00	-14.36	Average
10	1.34	32.88	0.22	33.10	56.00	-22.90	QP
11	17.66	21.54	0.90	22.44	50.00	-27.56	Average
12	17.66	27.15	0.90	28.05	60.00	-31.95	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



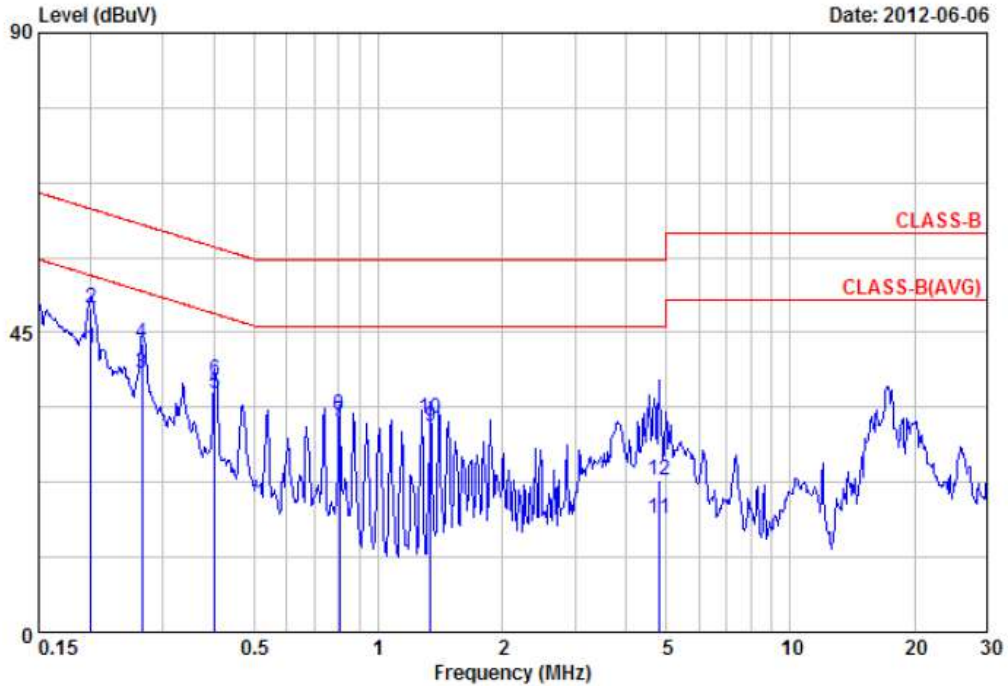
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	39.32	0.10	39.42	53.58	-14.16	Average
2	0.20	46.54	0.10	46.64	63.58	-16.94	QP
3	0.27	34.57	0.10	34.67	51.20	-16.53	Average
4	0.27	41.84	0.10	41.94	61.20	-19.26	QP
5	0.40	30.69	0.12	30.81	47.81	-17.00	Average
6	0.40	35.33	0.12	35.45	57.81	-22.36	QP
7	0.80	28.92	0.16	29.08	46.00	-16.92	Average
8	0.80	31.19	0.16	31.35	56.00	-24.65	QP
9	1.34	28.88	0.20	29.08	46.00	-16.92	Average
10	1.34	31.83	0.20	32.03	56.00	-23.97	QP
11	4.53	17.19	0.34	17.53	46.00	-28.47	Average
12	4.53	23.72	0.34	24.06	56.00	-31.94	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. 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.
4. 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.
5. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 2	: 802.11a, CH149	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



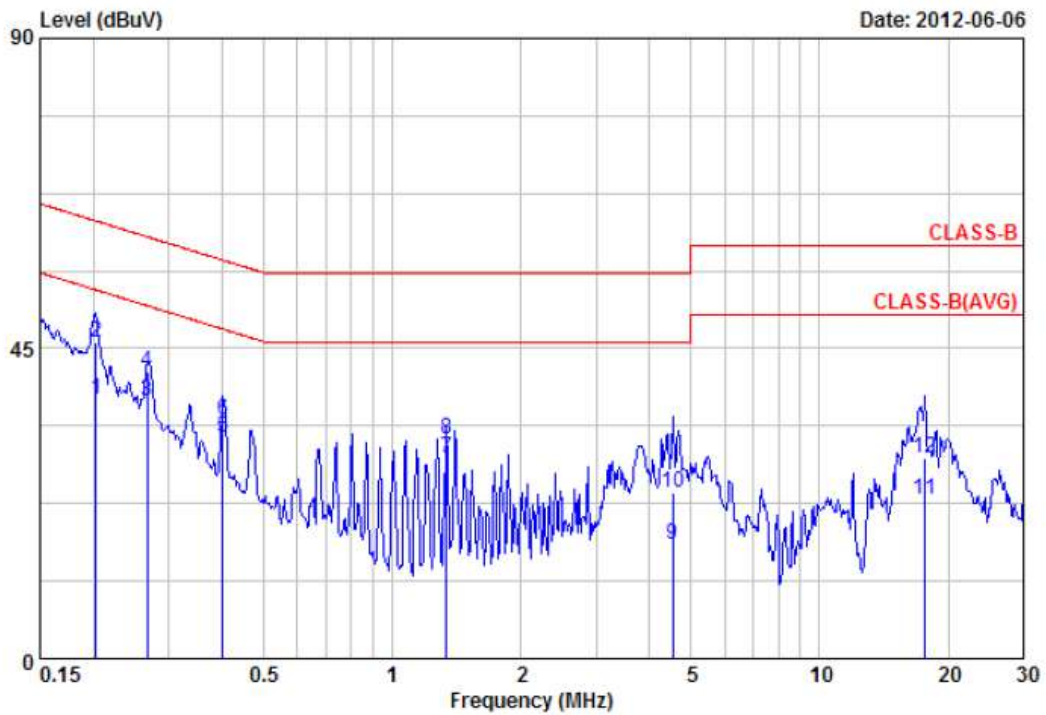
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	42.47	0.12	42.59	53.58	-10.99	Average
2	0.20	48.60	0.12	48.72	63.58	-14.86	QP
3	0.27	38.70	0.12	38.82	51.20	-12.38	Average
4	0.27	43.19	0.12	43.31	61.20	-17.89	QP
5	0.40	35.61	0.13	35.74	47.81	-12.07	Average
6	0.40	37.69	0.13	37.82	57.81	-19.99	QP
7	0.80	31.46	0.18	31.64	46.00	-14.36	Average
8	0.80	32.53	0.18	32.71	56.00	-23.29	QP
9	1.34	30.61	0.22	30.83	46.00	-15.17	Average
10	1.34	31.79	0.22	32.01	56.00	-23.99	QP
11	4.80	16.74	0.38	17.12	46.00	-28.88	Average
12	4.80	22.40	0.38	22.78	56.00	-33.22	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11a, CH149	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



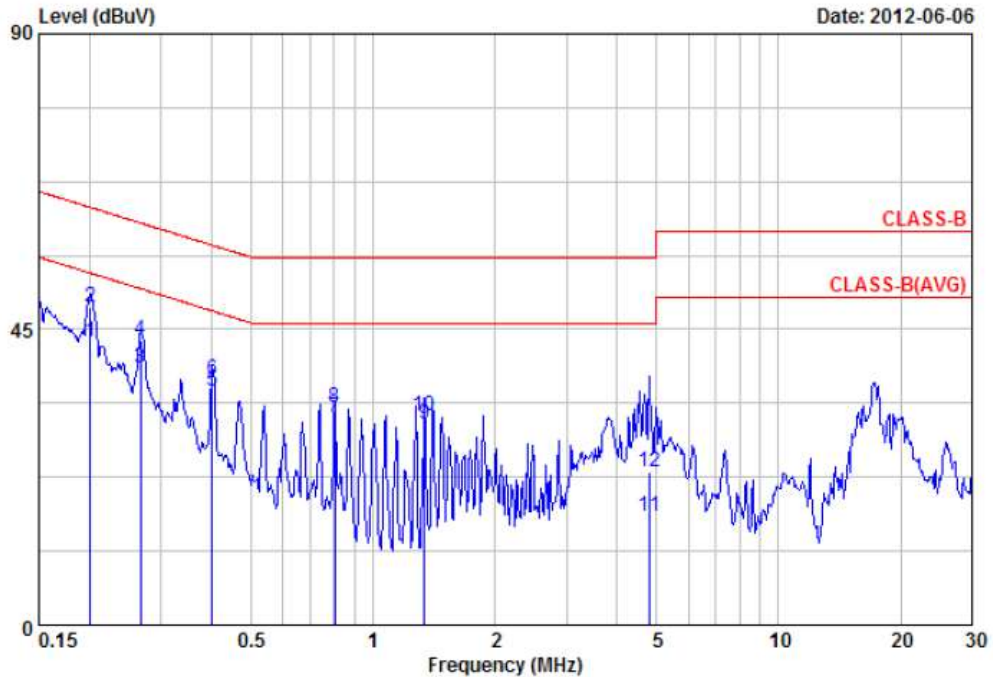
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	37.47	0.10	37.57	53.49	-15.92	Average
2	0.20	45.68	0.10	45.78	63.49	-17.71	QP
3	0.27	37.17	0.10	37.27	51.20	-13.93	Average
4	0.27	41.57	0.10	41.67	61.20	-19.53	QP
5	0.40	31.88	0.12	32.00	47.81	-15.81	Average
6	0.40	34.46	0.12	34.58	57.81	-23.23	QP
7	1.34	28.79	0.20	28.99	46.00	-17.01	Average
8	1.34	31.53	0.20	31.73	56.00	-24.27	QP
9	4.53	16.14	0.34	16.48	46.00	-29.52	Average
10	4.53	23.63	0.34	23.97	56.00	-32.03	QP
11	17.59	22.44	0.69	23.13	50.00	-26.87	Average
12	17.59	28.41	0.69	29.10	60.00	-30.90	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 2	: 802.11an HT20, CH149	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



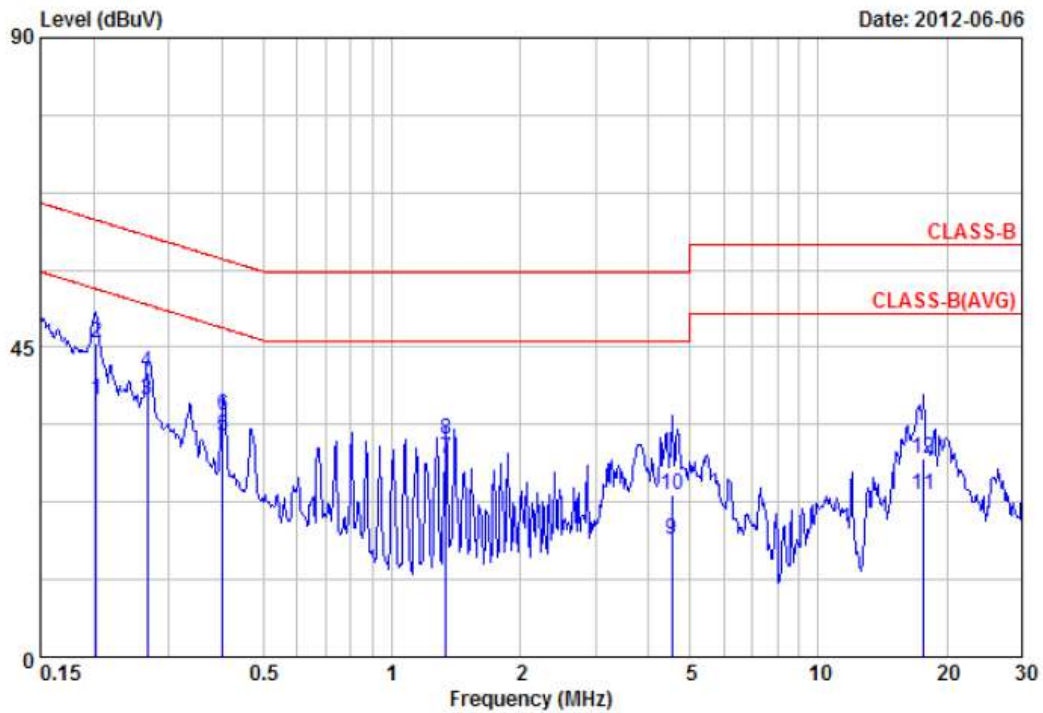
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	42.92	0.12	43.04	53.58	-10.54	Average
2	0.20	48.22	0.12	48.34	63.58	-15.24	QP
3	0.27	38.90	0.12	39.02	51.20	-12.18	Average
4	0.27	43.19	0.12	43.31	61.20	-17.89	QP
5	0.40	35.35	0.13	35.48	47.81	-12.33	Average
6	0.40	37.27	0.13	37.40	57.81	-20.41	QP
7	0.80	31.42	0.18	31.60	46.00	-14.40	Average
8	0.80	32.93	0.18	33.11	56.00	-22.89	QP
9	1.34	30.46	0.22	30.68	46.00	-15.32	Average
10	1.34	31.59	0.22	31.81	56.00	-24.19	QP
11	4.80	16.26	0.38	16.64	46.00	-29.36	Average
12	4.80	22.90	0.38	23.28	56.00	-32.72	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11an HT20, CH149	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



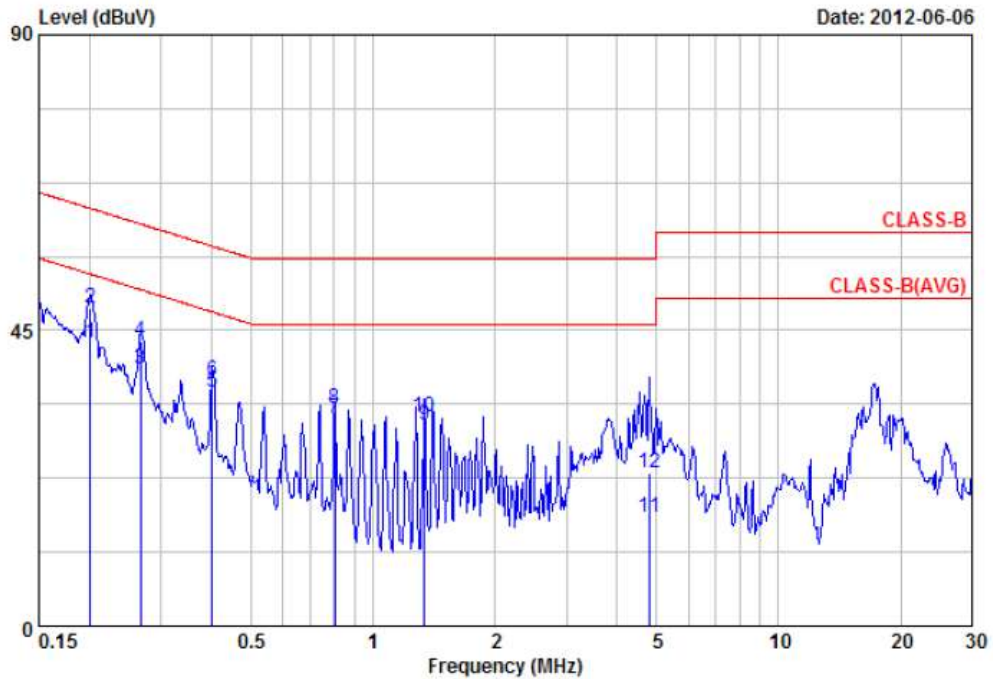
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	37.36	0.10	37.46	53.49	-16.03	Average
2	0.20	45.57	0.10	45.67	63.49	-17.82	QP
3	0.27	37.37	0.10	37.47	51.20	-13.73	Average
4	0.27	41.33	0.10	41.43	61.20	-19.77	QP
5	0.40	31.88	0.12	32.00	47.81	-15.81	Average
6	0.40	34.96	0.12	35.08	57.81	-22.73	QP
7	1.34	28.52	0.20	28.72	46.00	-17.28	Average
8	1.34	31.50	0.20	31.70	56.00	-24.30	QP
9	4.53	16.69	0.34	17.03	46.00	-28.97	Average
10	4.53	23.25	0.34	23.59	56.00	-32.41	QP
11	17.59	22.82	0.69	23.51	50.00	-26.49	Average
12	17.59	28.15	0.69	28.84	60.00	-31.16	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: LINE
Test Mode 2	: 802.11an HT40, CH151	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



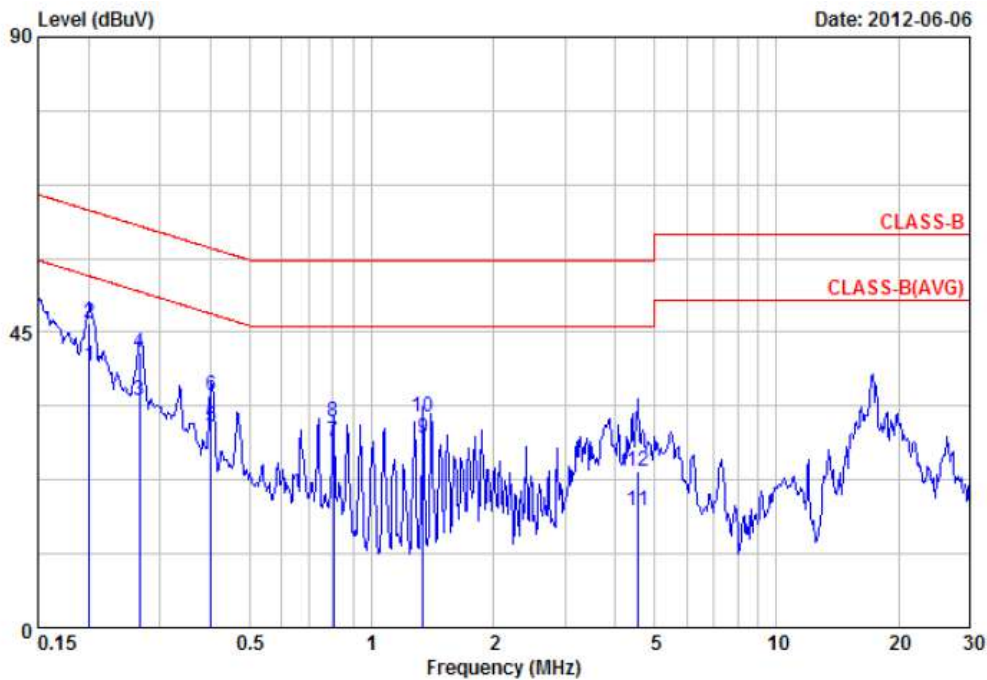
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	42.92	0.12	43.04	53.58	-10.54	Average
2	0.20	48.22	0.12	48.34	63.58	-15.24	QP
3	0.27	38.90	0.12	39.02	51.20	-12.18	Average
4	0.27	43.19	0.12	43.31	61.20	-17.89	QP
5	0.40	35.35	0.13	35.48	47.81	-12.33	Average
6	0.40	37.27	0.13	37.40	57.81	-20.41	QP
7	0.80	31.42	0.18	31.60	46.00	-14.40	Average
8	0.80	32.93	0.18	33.11	56.00	-22.89	QP
9	1.34	30.46	0.22	30.68	46.00	-15.32	Average
10	1.34	31.59	0.22	31.81	56.00	-24.19	QP
11	4.80	16.26	0.38	16.64	46.00	-29.36	Average
12	4.80	22.90	0.38	23.28	56.00	-32.72	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11an HT40, CH151	Temperature	: 25 °C
Memo	: Antenna Type: PCB	Humidity	: 65 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	39.85	0.10	39.95	53.58	-13.63	Average
2	0.20	46.30	0.10	46.40	63.58	-17.18	QP
3	0.27	34.57	0.10	34.67	51.20	-16.53	Average
4	0.27	41.84	0.10	41.94	61.20	-19.26	QP
5	0.40	30.44	0.12	30.56	47.81	-17.25	Average
6	0.40	35.33	0.12	35.45	57.81	-22.36	QP
7	0.80	28.26	0.16	28.42	46.00	-17.58	Average
8	0.80	31.19	0.16	31.35	56.00	-24.65	QP
9	1.34	28.52	0.20	28.72	46.00	-17.28	Average
10	1.34	31.83	0.20	32.03	56.00	-23.97	QP
11	4.53	17.38	0.34	17.72	46.00	-28.28	Average
12	4.53	23.52	0.34	23.86	56.00	-32.14	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
4. The data is worse case.



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 (μ V / M)	Radiated (dB μ 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 μ V / M)
30-230	10	30
230-1000	10	37

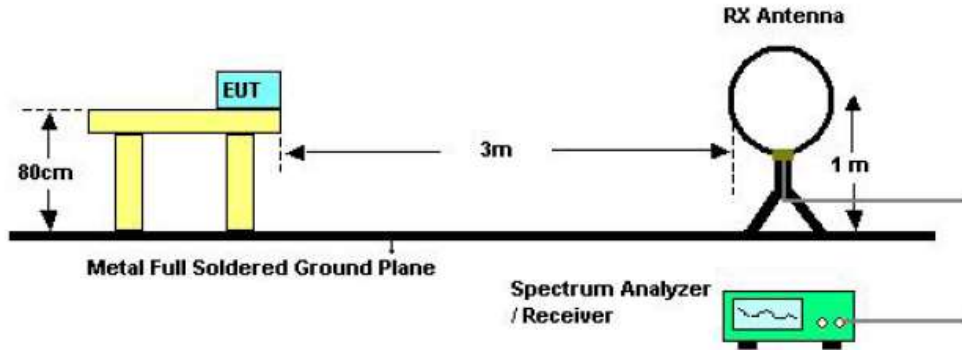
5.2 Test Procedures

- 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.
- "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

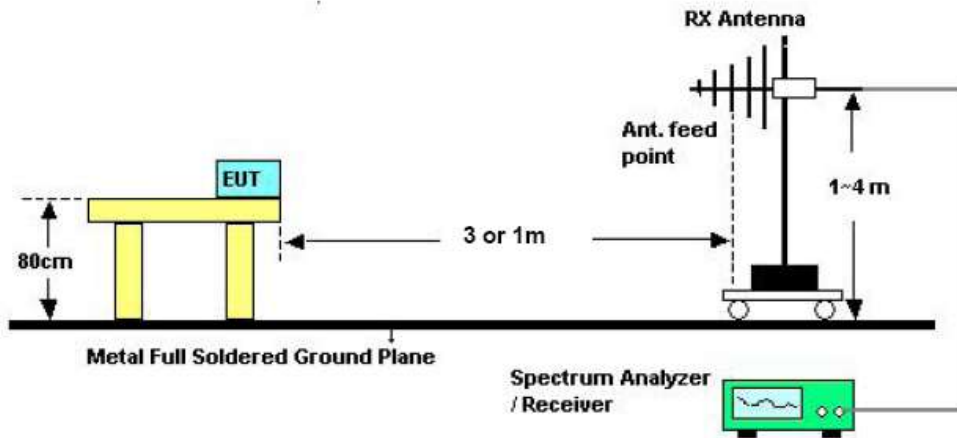


5.3 Typical Test Setup

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 (specific distance [3m] / 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	100821	2012/01/31	2013/01/30
Amplifier	QuieTek	AP/0100A	CHM0906075	2012/01/13	2013/01/12
Signal Generator	HP	8648B	3629U00612	2012/01/11	2013/01/10
Bilog Antenna	Schwarzbeck	VULB 9168	275	2012/03/23	2013/03/22
Spectrum Analyzer	R&S	FSP40	100047	2012/03/01	2013/02/28
Horn Antenna	EMCO	3115	31589	2012/03/01	2013/02/28
Preamplifier	Agilent	8449B	3008A01954	2012/02/29	2013/02/28
Loop Antenna	EMCO	6507	40855	2012/02/29	2013/02/28

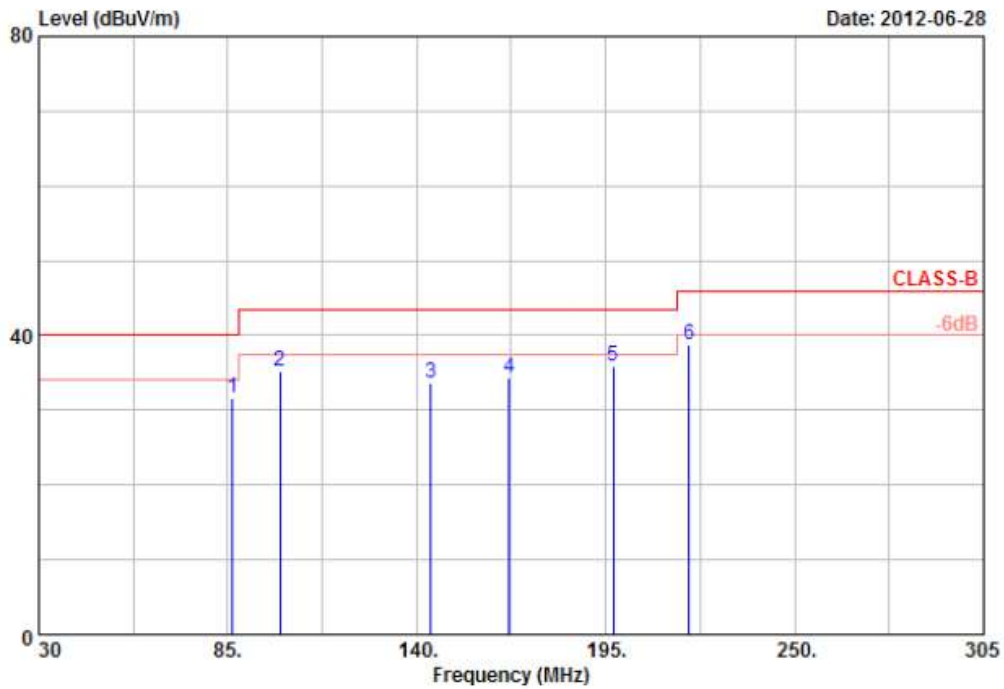


5.1 Test Result and Data (9kHz ~ 30MHz)

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

5.2 Test Result and Data

Power	: From System	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



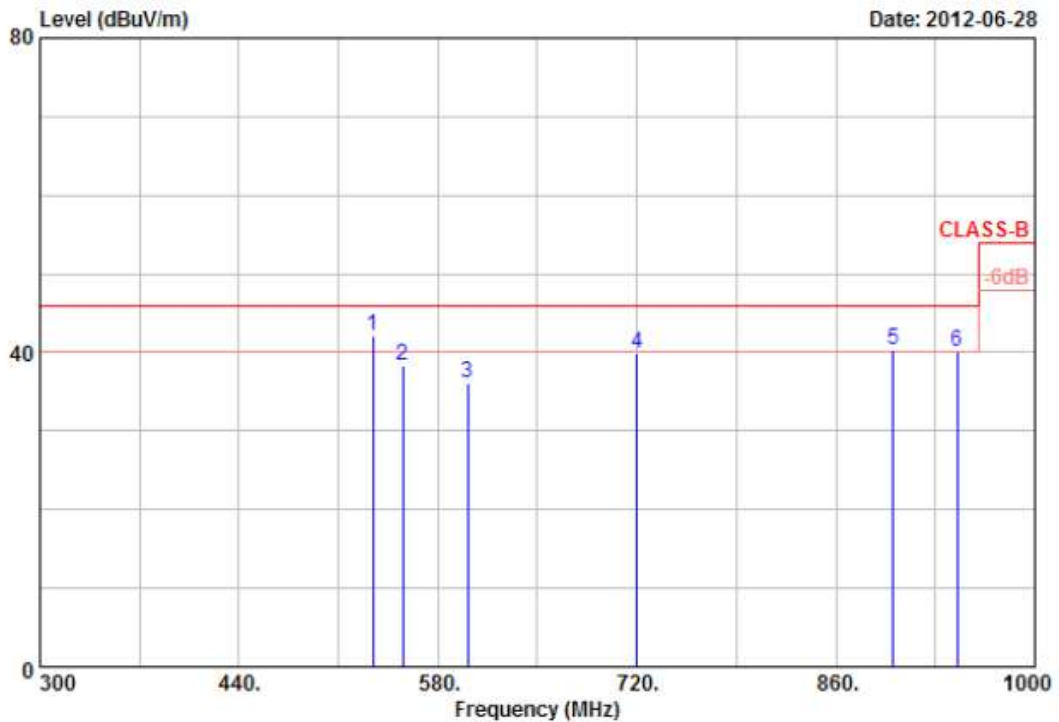
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	86.38	39.55	-7.93	31.62	40.00	-8.38	Peak	100	0
2	100.13	43.79	-8.69	35.10	43.50	-8.40	Peak	100	0
3	144.13	42.39	-8.74	33.65	43.50	-9.85	Peak	100	0
4	166.95	45.38	-11.09	34.29	43.50	-9.21	Peak	100	0
5	197.20	47.42	-11.58	35.84	43.50	-7.66	Peak	100	0
6	219.20	44.80	-6.13	38.67	46.00	-7.33	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 802.11g/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	: From System	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



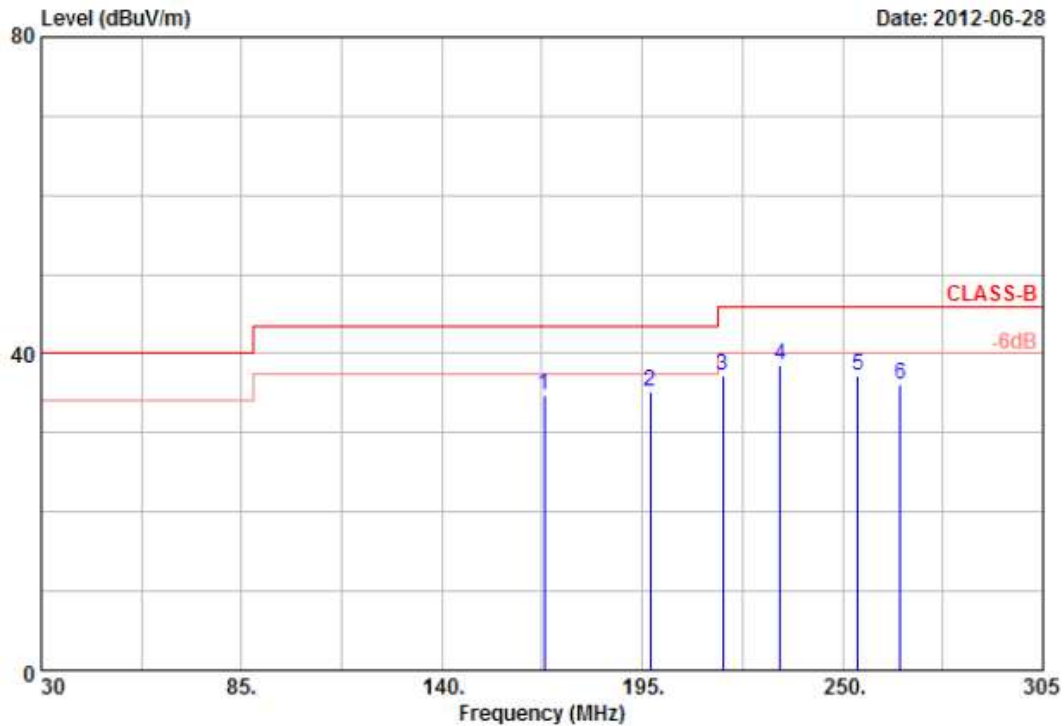
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	534.50	38.76	3.30	42.06	46.00	-3.94	QP	100	0
2	555.50	30.67	7.64	38.31	46.00	-7.69	Peak	100	0
3	601.00	33.53	2.60	36.13	46.00	-9.87	Peak	100	0
4	720.00	33.57	6.41	39.98	46.00	-6.02	Peak	100	0
5	900.60	31.19	9.19	40.38	46.00	-5.62	QP	100	0
6	945.40	28.80	11.40	40.20	46.00	-5.80	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 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	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



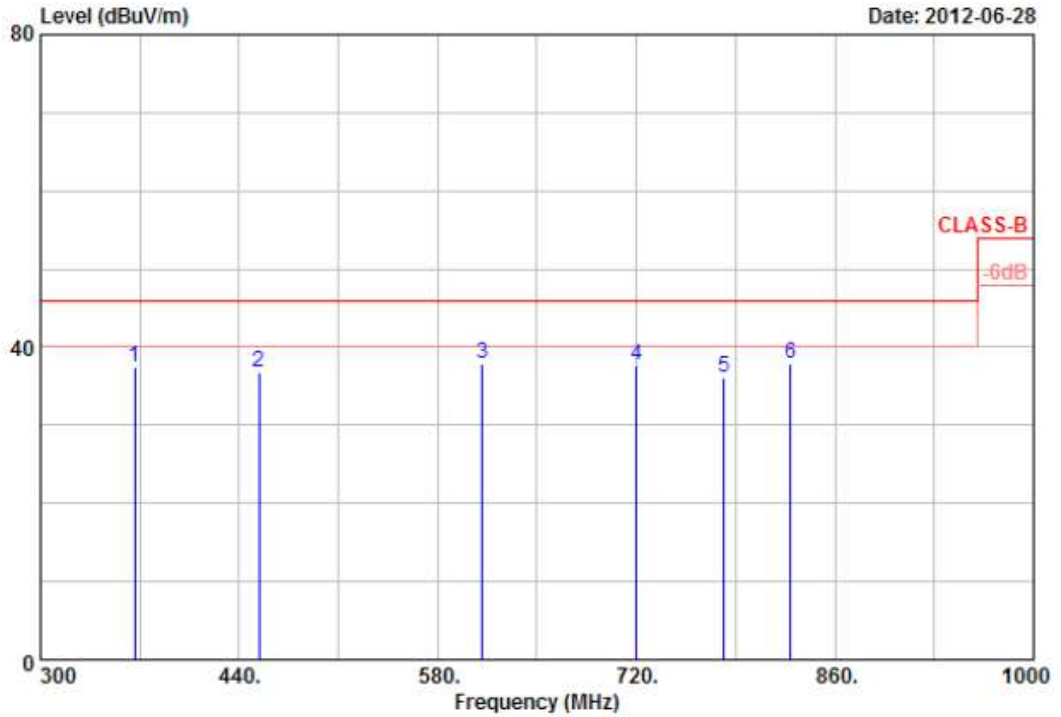
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	168.05	47.77	-13.07	34.70	43.50	-8.80	Peak	100	0
2	197.20	54.50	-19.37	35.13	43.50	-8.37	Peak	100	0
3	217.00	53.33	-16.11	37.22	46.00	-8.78	Peak	100	0
4	232.95	53.10	-14.66	38.44	46.00	-7.56	Peak	100	0
5	254.13	50.70	-13.51	37.19	46.00	-8.81	Peak	100	0
6	265.95	49.99	-13.91	36.08	46.00	-9.92	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	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



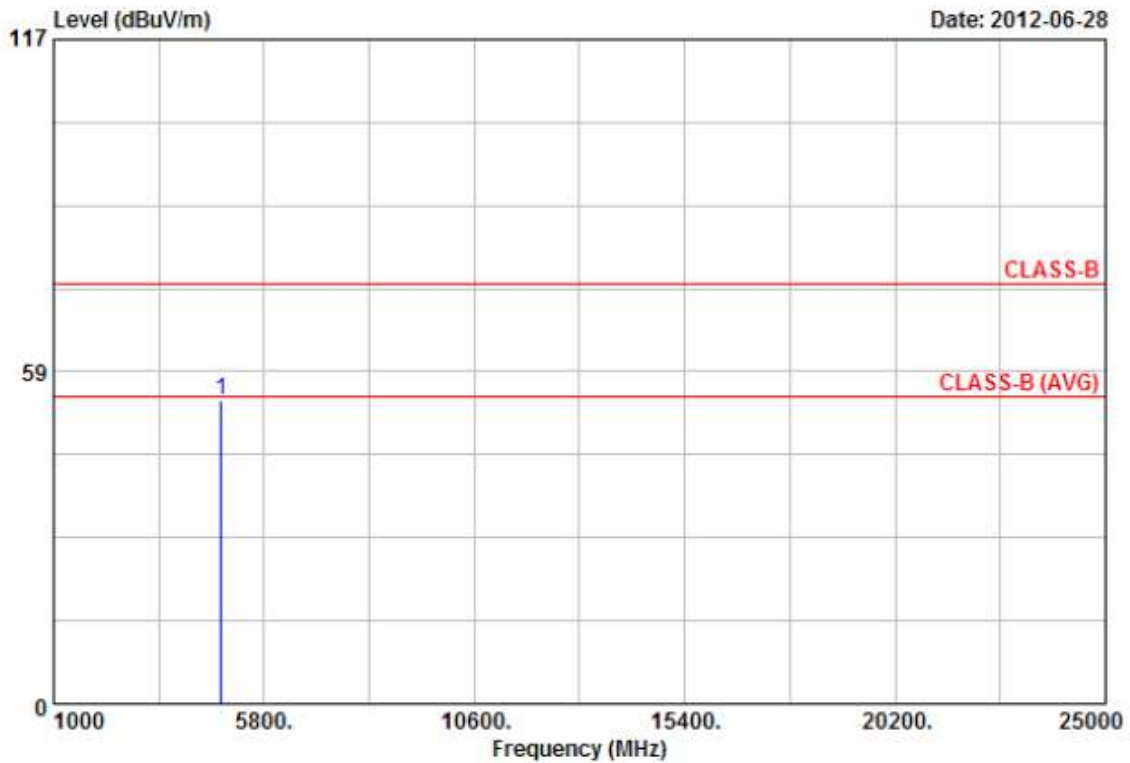
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	366.50	48.89	-11.46	37.43	46.00	-8.57	Peak	100	0
2	454.00	41.47	-4.67	36.80	46.00	-9.20	Peak	100	0
3	611.50	34.73	3.24	37.97	46.00	-8.03	Peak	100	0
4	720.00	33.57	4.17	37.74	46.00	-8.26	Peak	100	0
5	781.60	31.53	4.54	36.07	46.00	-9.93	Peak	100	0
6	828.50	29.61	8.34	37.95	46.00	-8.05	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	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH1	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



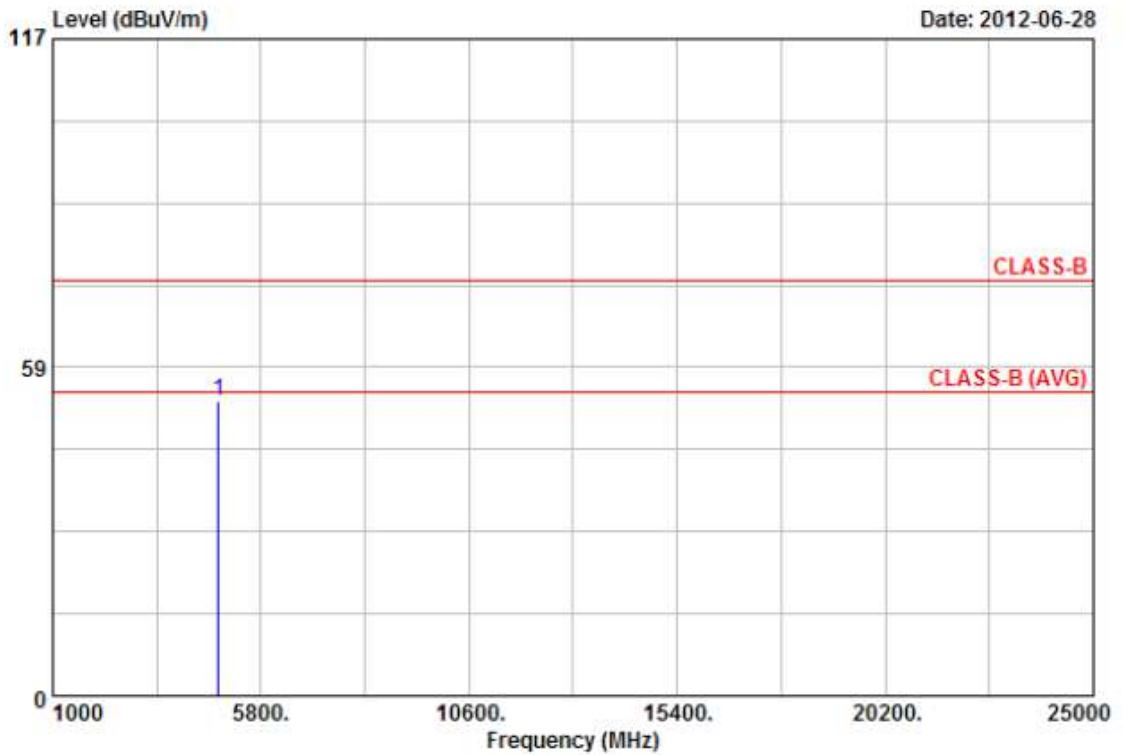
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.38	47.68	5.61	53.29	74.00	-20.71	Peak	100	195

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH1	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



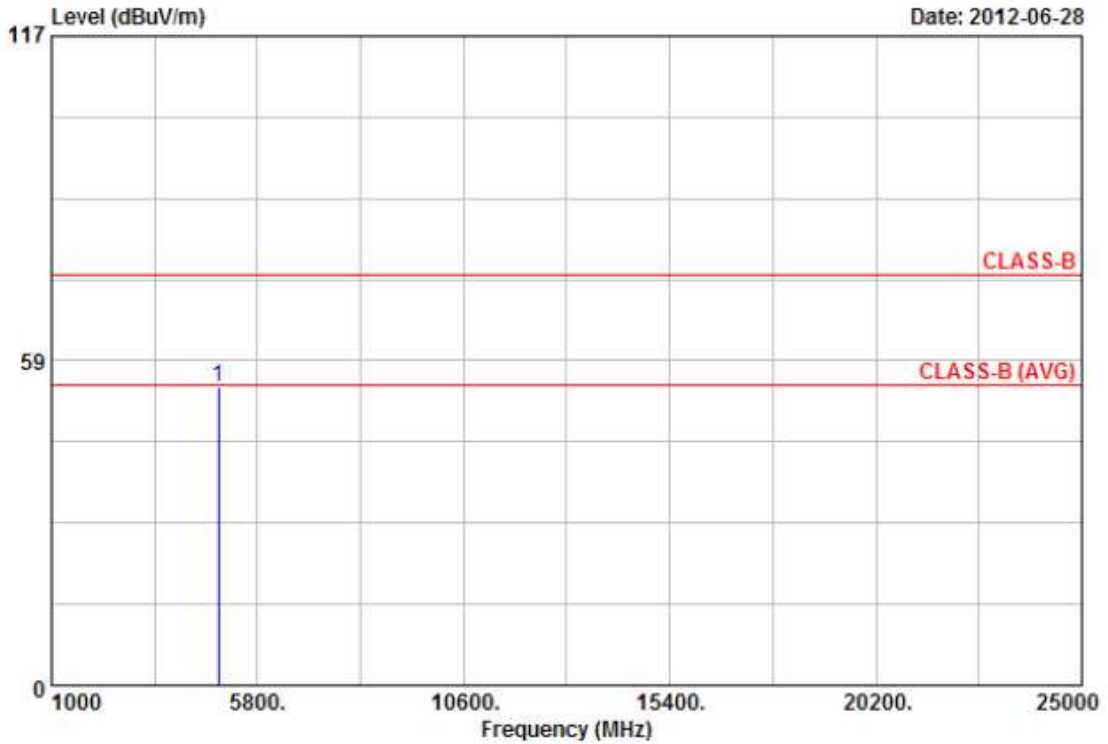
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.75	48.47	3.94	52.41	74.00	-21.59	Peak	100	195

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH6	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



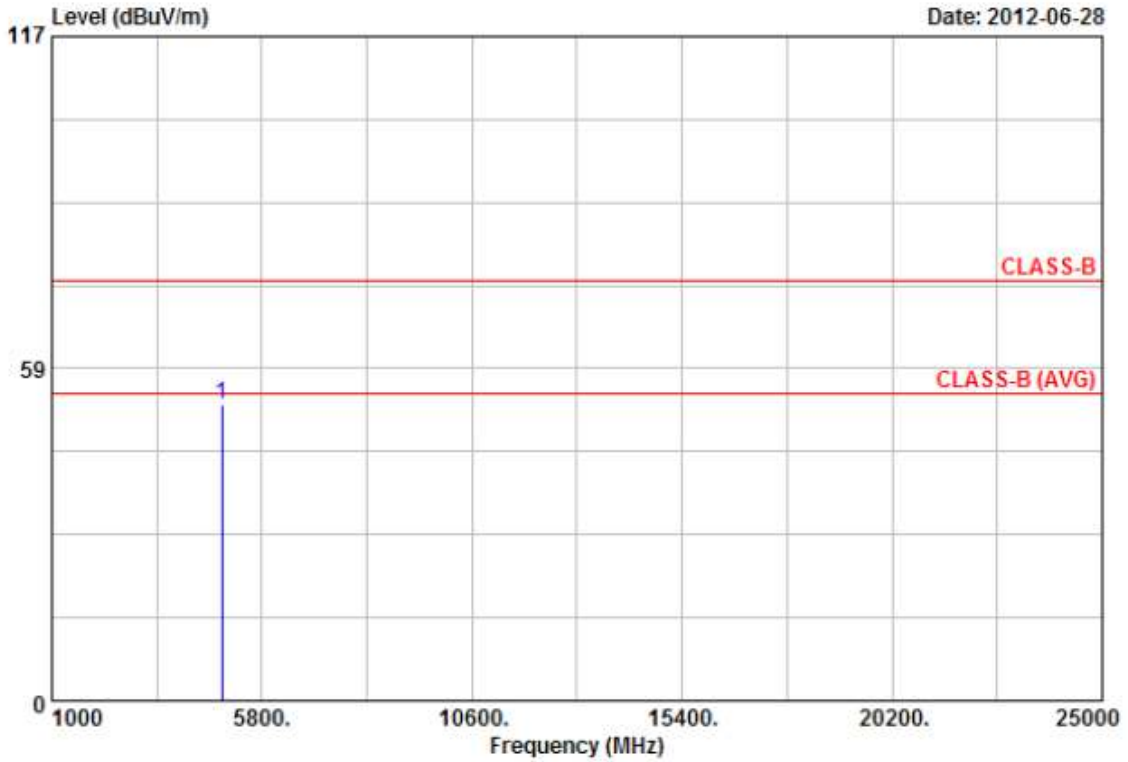
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.95	47.17	6.59	53.76	74.00	-20.24	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH6	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



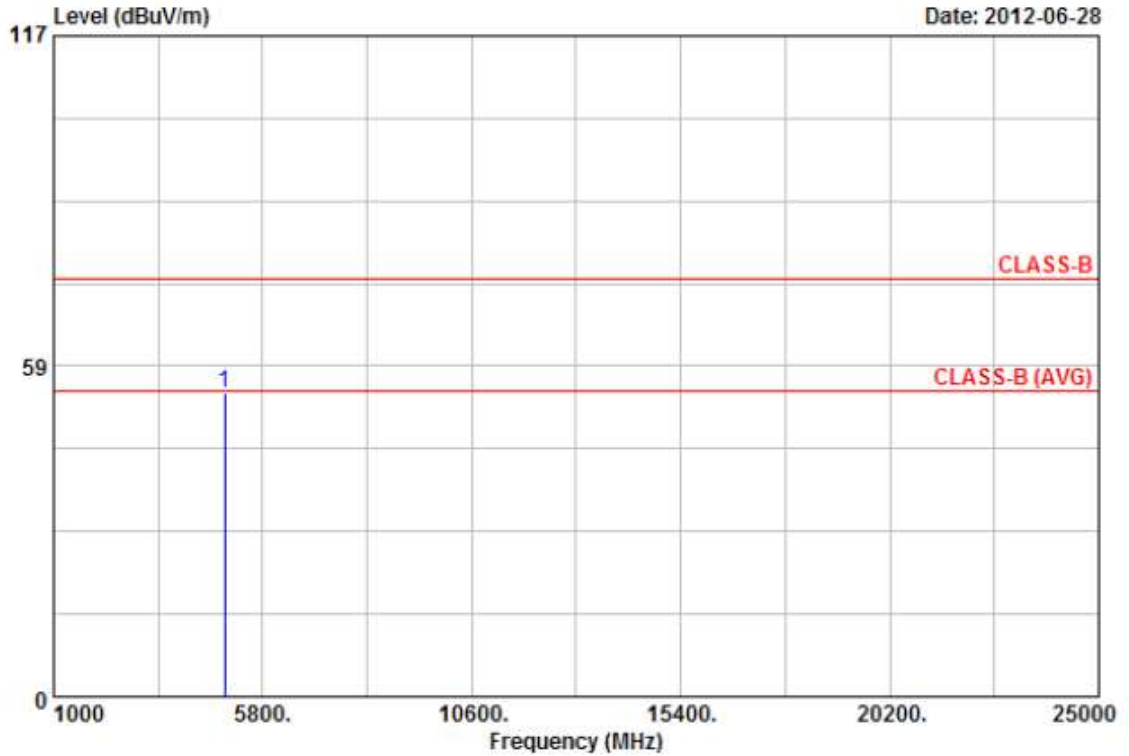
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.95	47.39	4.73	52.12	74.00	-21.88	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH11	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



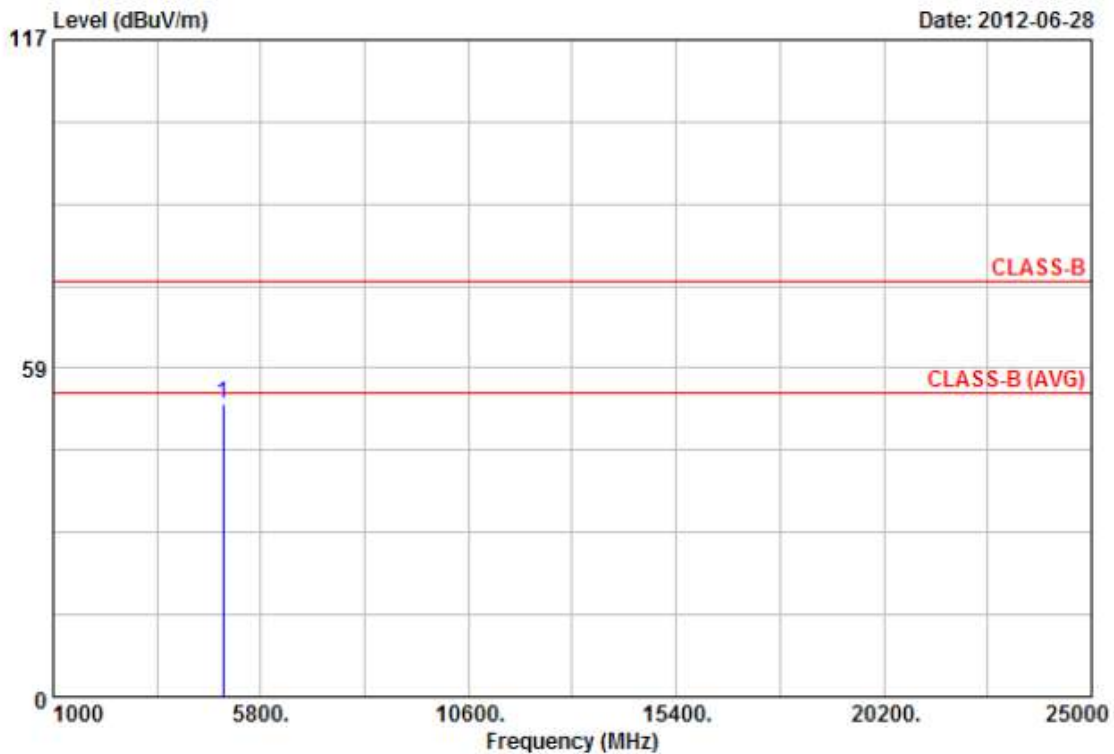
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.10	46.49	7.16	53.65	74.00	-20.35	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH11	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



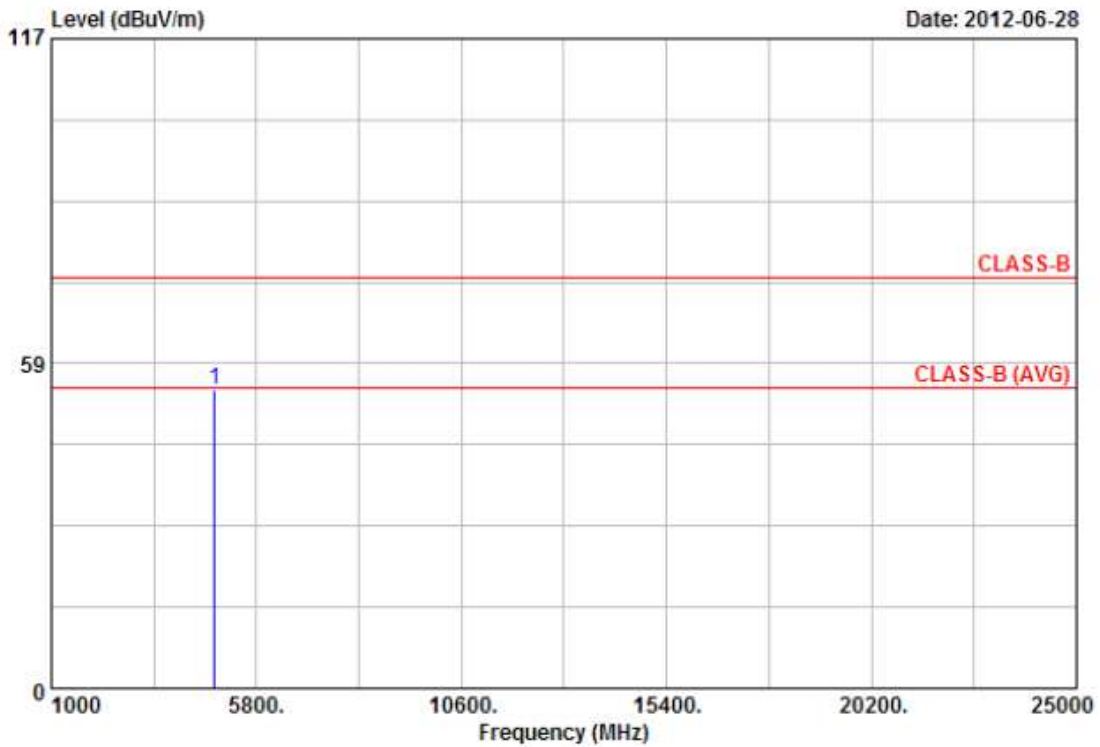
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.18	46.90	5.15	52.05	74.00	-21.95	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



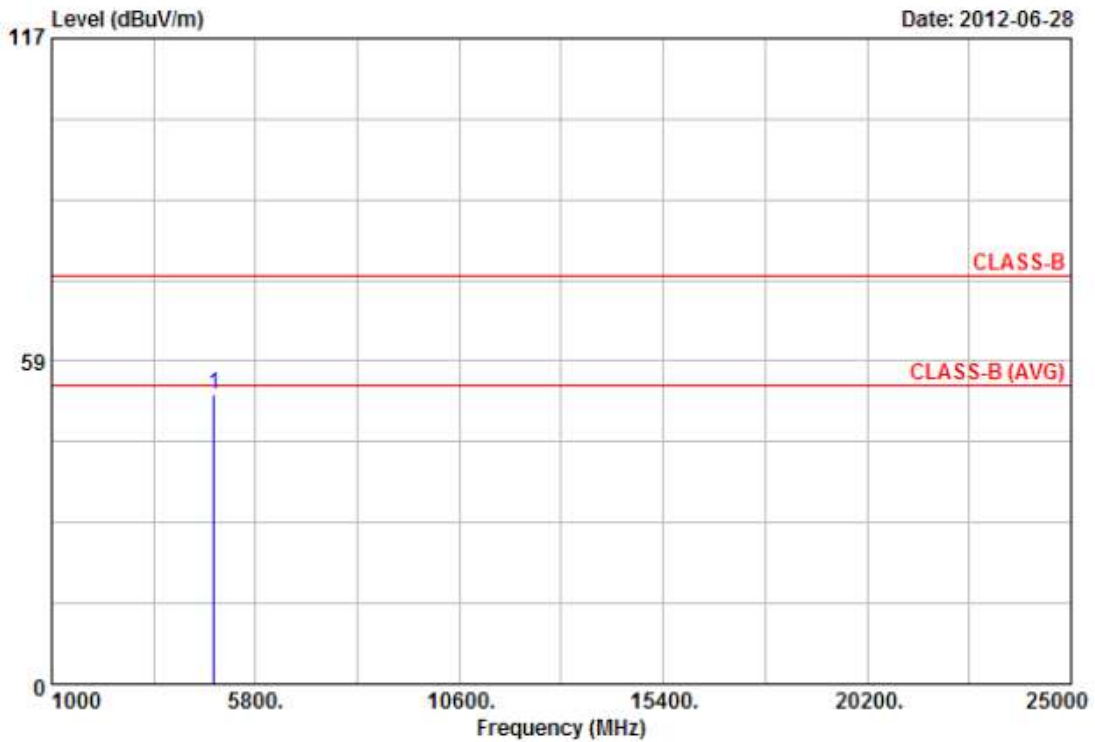
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.40	48.22	5.62	53.84	74.00	-20.16	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



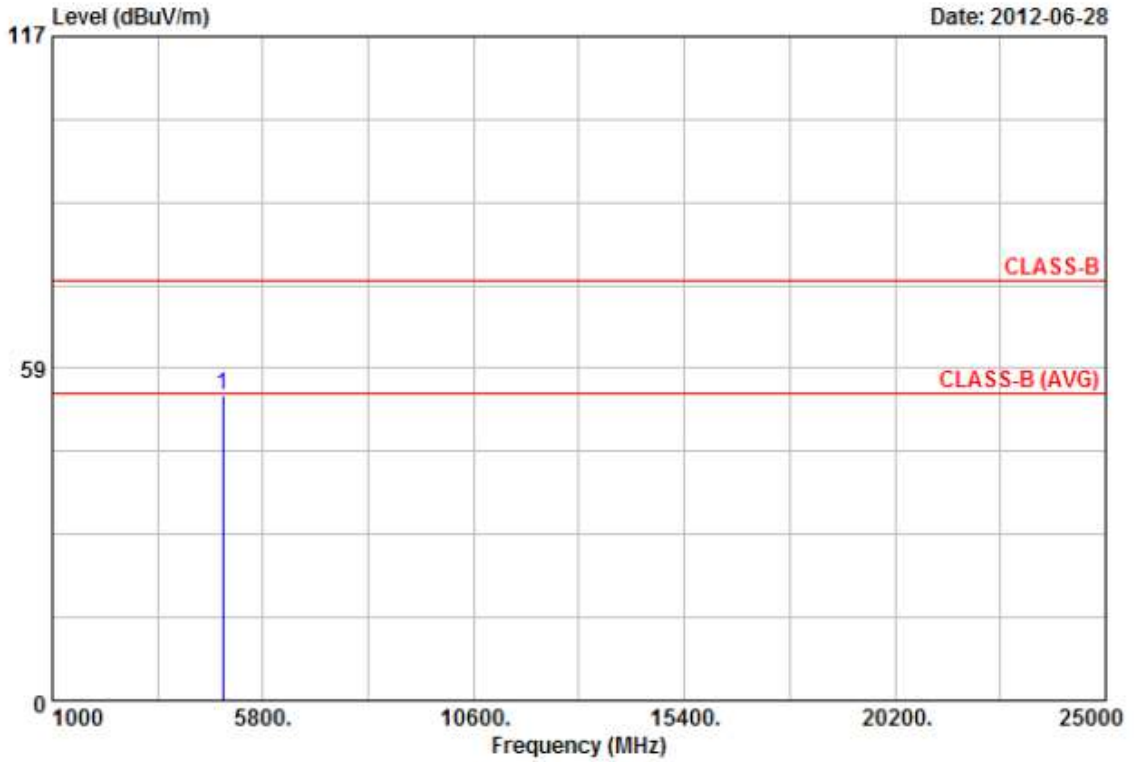
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.05	48.41	3.93	52.34	74.00	-21.66	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH6	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



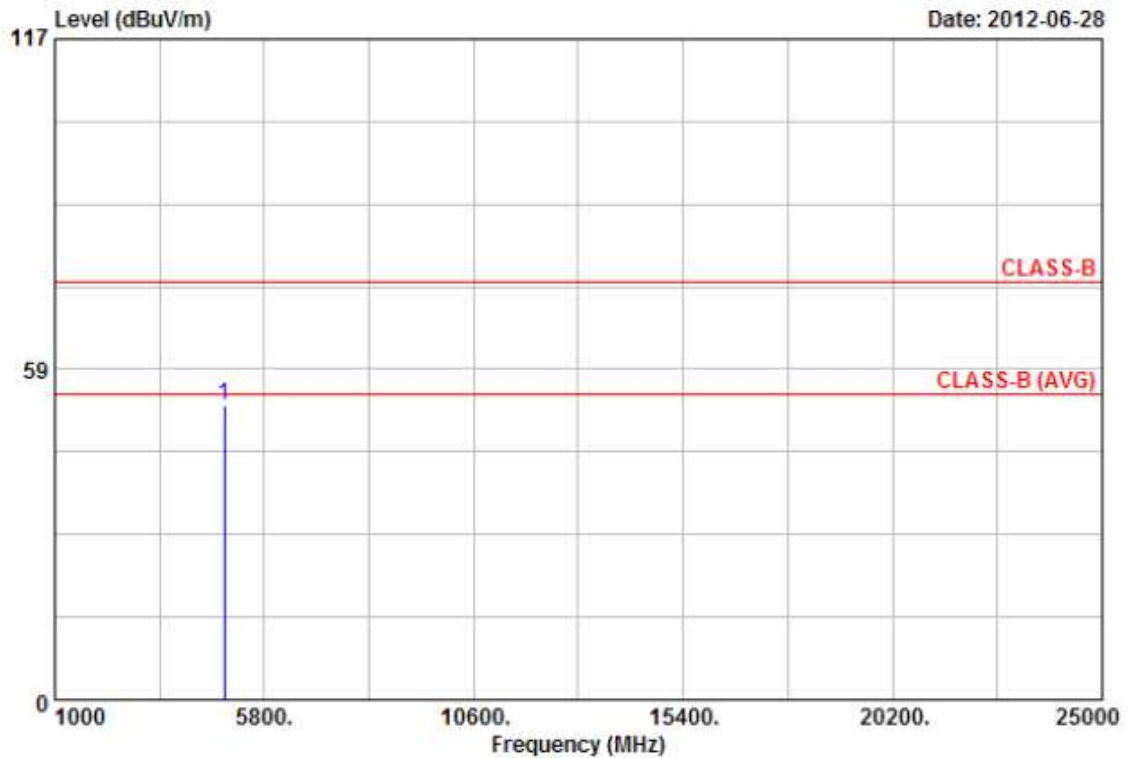
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.40	47.30	6.58	53.88	74.00	-20.12	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH6	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



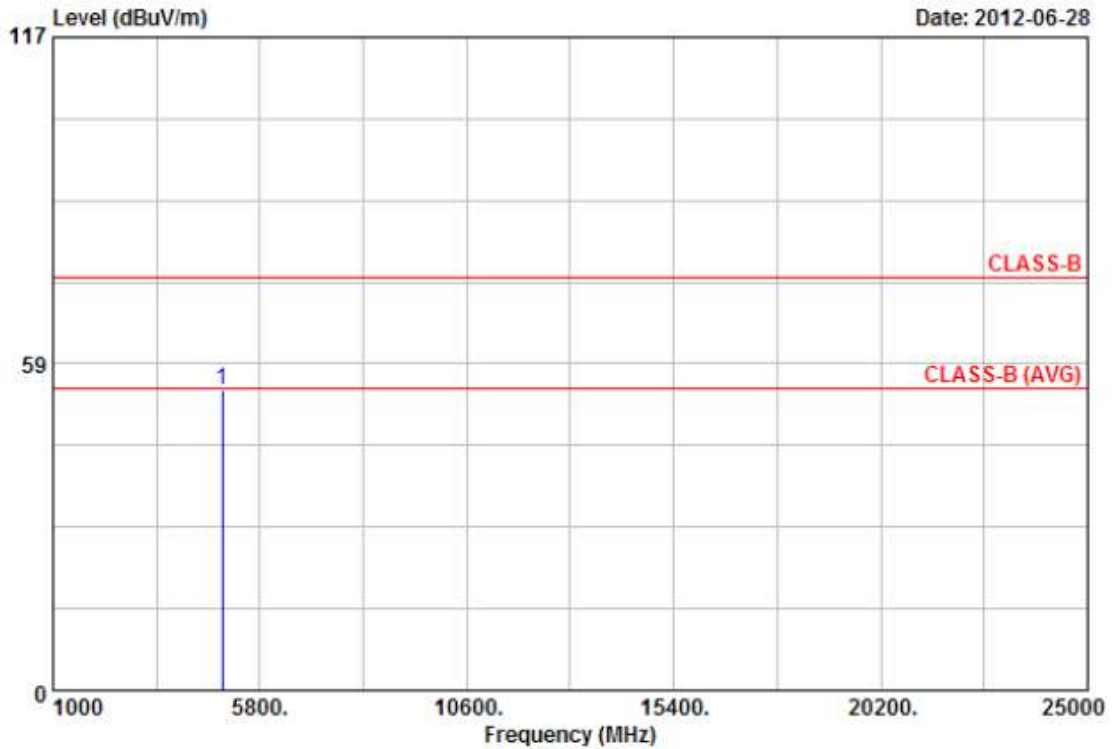
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.28	47.35	4.72	52.07	74.00	-21.93	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH11	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



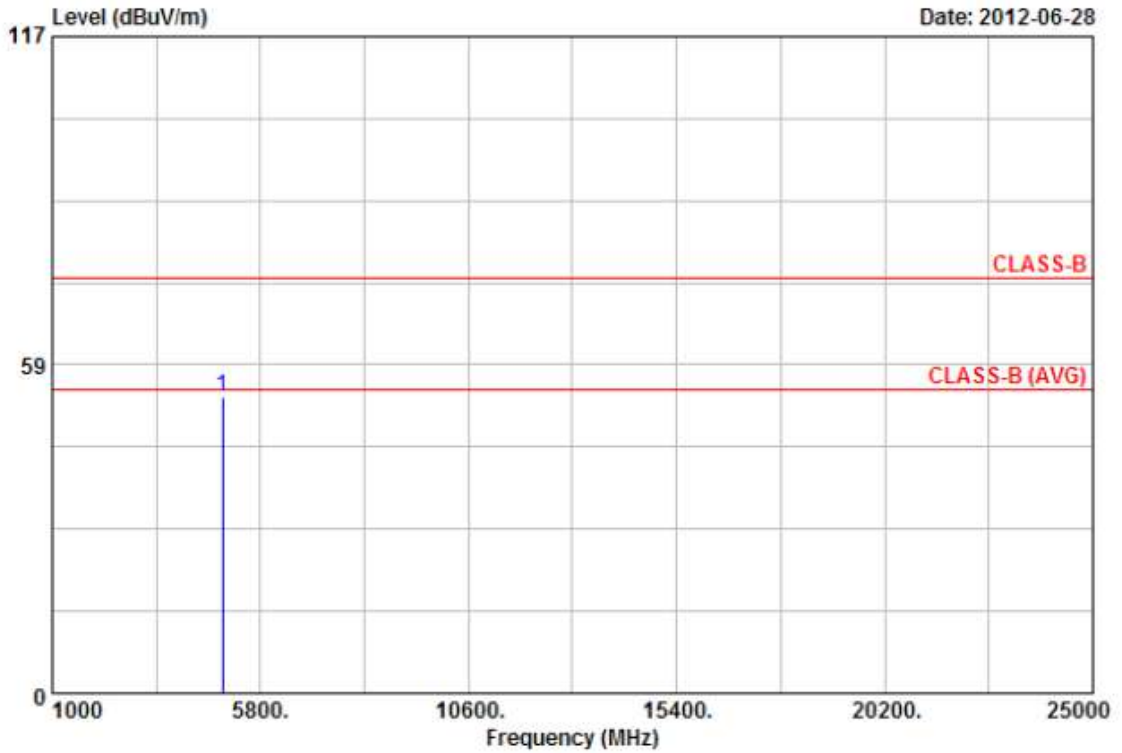
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4922.10	46.77	7.15	53.92	74.00	-20.08	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH11	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



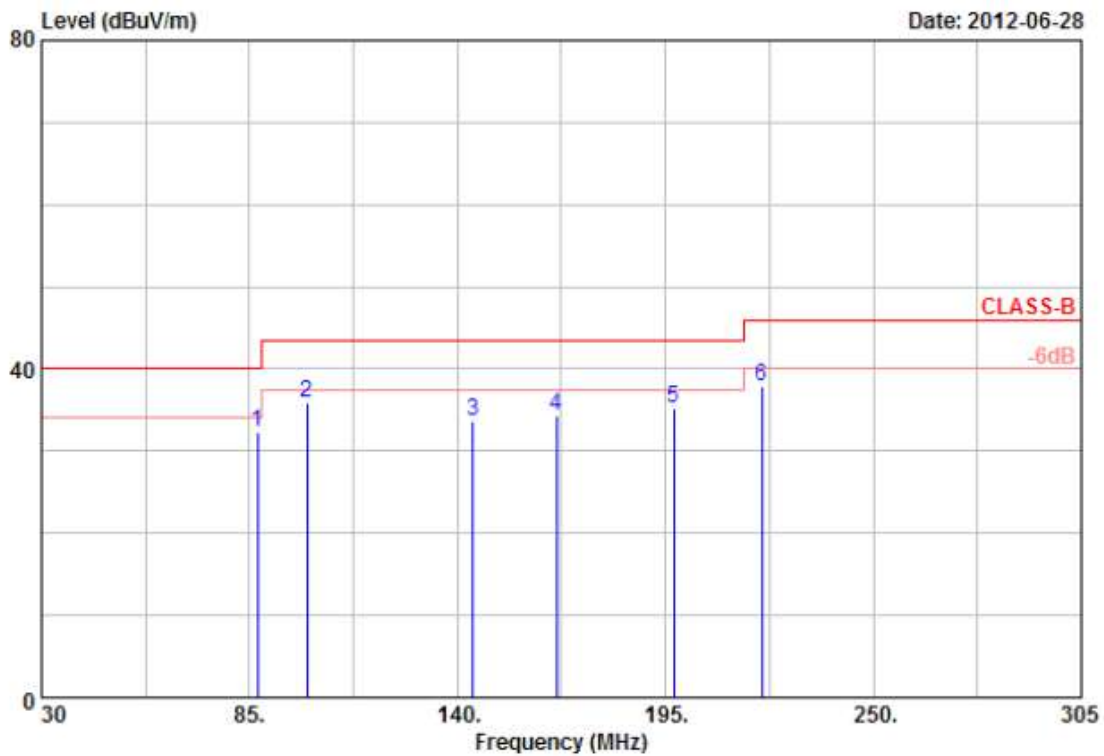
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4922.75	47.55	5.15	52.70	74.00	-21.30	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



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	87.20	40.44	-8.08	32.36	40.00	-7.64	Peak	100	0
2	100.13	44.63	-8.69	35.94	43.50	-7.56	Peak	100	0
3	144.13	42.44	-8.74	33.70	43.50	-9.80	Peak	100	0
4	166.13	44.65	-10.34	34.31	43.50	-9.19	Peak	100	0
5	197.20	46.77	-11.58	35.19	43.50	-8.31	Peak	100	0
6	220.58	43.99	-6.09	37.90	46.00	-8.10	Peak	100	0

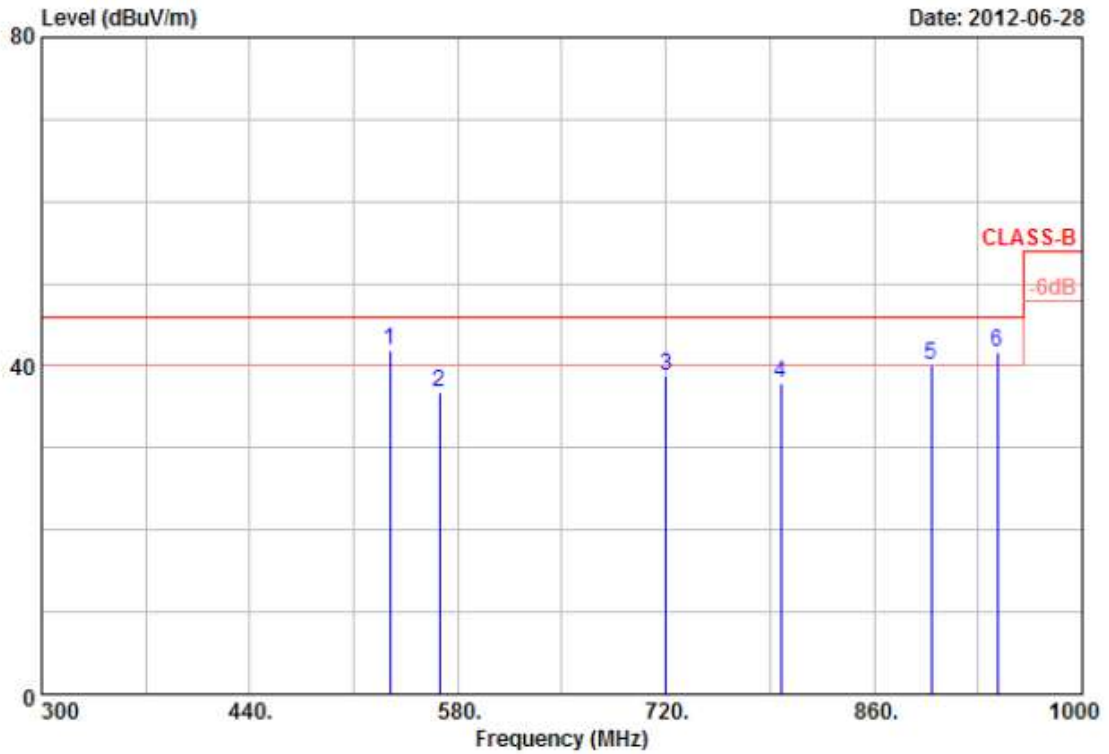
Notes:

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	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



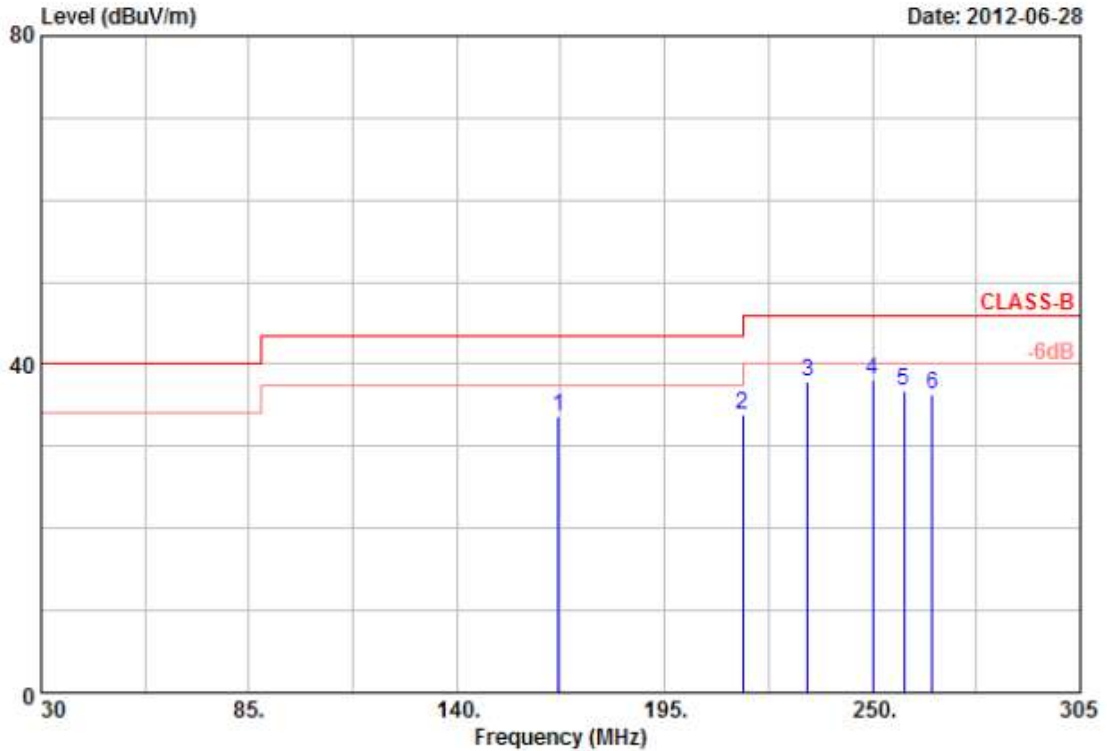
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	534.50	38.68	3.30	41.98	46.00	-4.02	QP	100	0
2	567.40	29.57	7.11	36.68	46.00	-9.32	Peak	100	0
3	720.00	32.36	6.41	38.77	46.00	-7.23	Peak	100	0
4	797.00	31.86	5.94	37.80	46.00	-8.20	Peak	100	0
5	898.50	30.85	9.19	40.04	46.00	-5.96	QP	100	0
6	942.60	30.36	11.30	41.66	46.00	-4.34	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 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	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



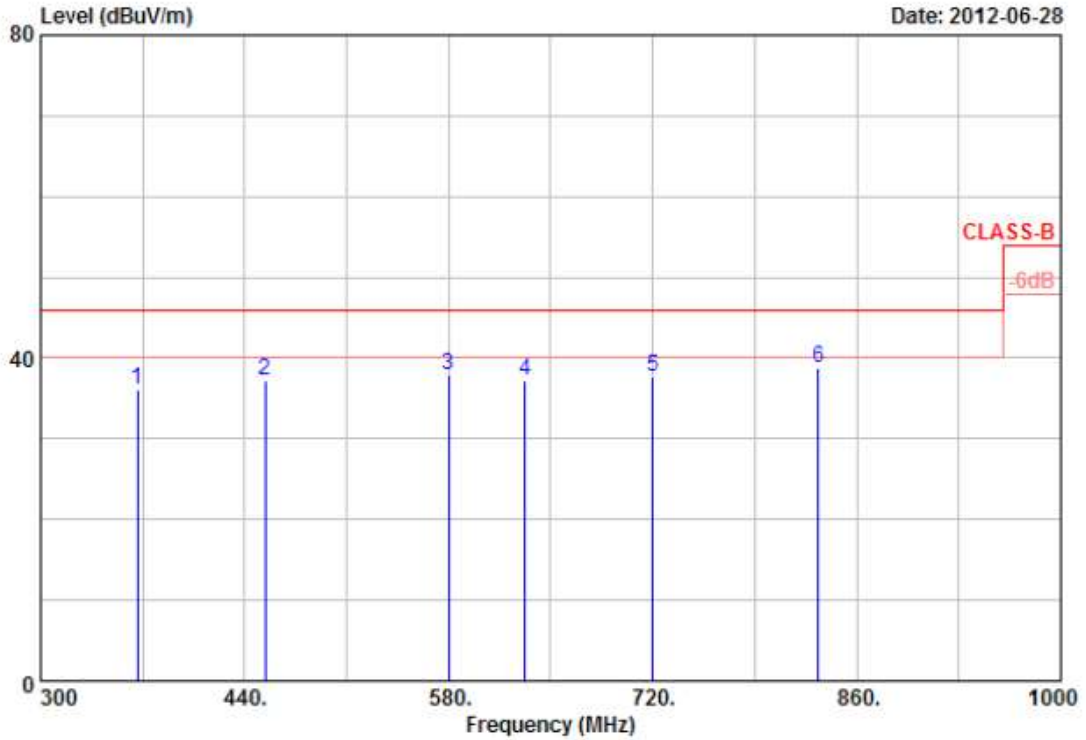
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	166.95	47.86	-14.28	33.58	43.50	-9.92	Peak	100	0
2	215.63	50.16	-16.31	33.85	43.50	-9.65	Peak	100	0
3	232.95	52.50	-14.66	37.84	46.00	-8.16	Peak	100	0
4	250.00	51.52	-13.52	38.00	46.00	-8.00	Peak	100	0
5	258.25	50.22	-13.34	36.88	46.00	-9.12	Peak	100	0
6	265.95	50.20	-13.91	36.29	46.00	-9.71	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	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



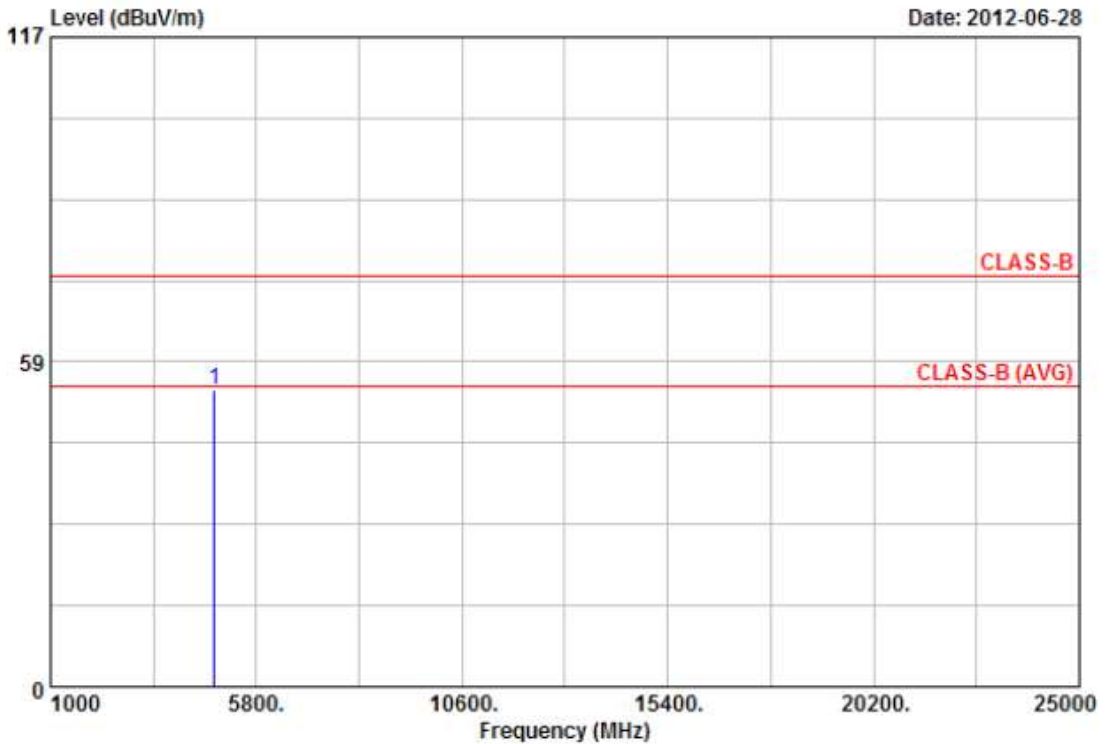
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	366.50	47.60	-11.46	36.14	46.00	-9.86	Peak	100	0
2	454.00	41.86	-4.67	37.19	46.00	-8.81	Peak	100	0
3	580.00	34.96	2.86	37.82	46.00	-8.18	Peak	100	0
4	632.50	33.84	3.39	37.23	46.00	-8.77	Peak	100	0
5	720.00	33.43	4.17	37.60	46.00	-8.40	Peak	100	0
6	833.40	30.07	8.80	38.87	46.00	-7.13	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	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



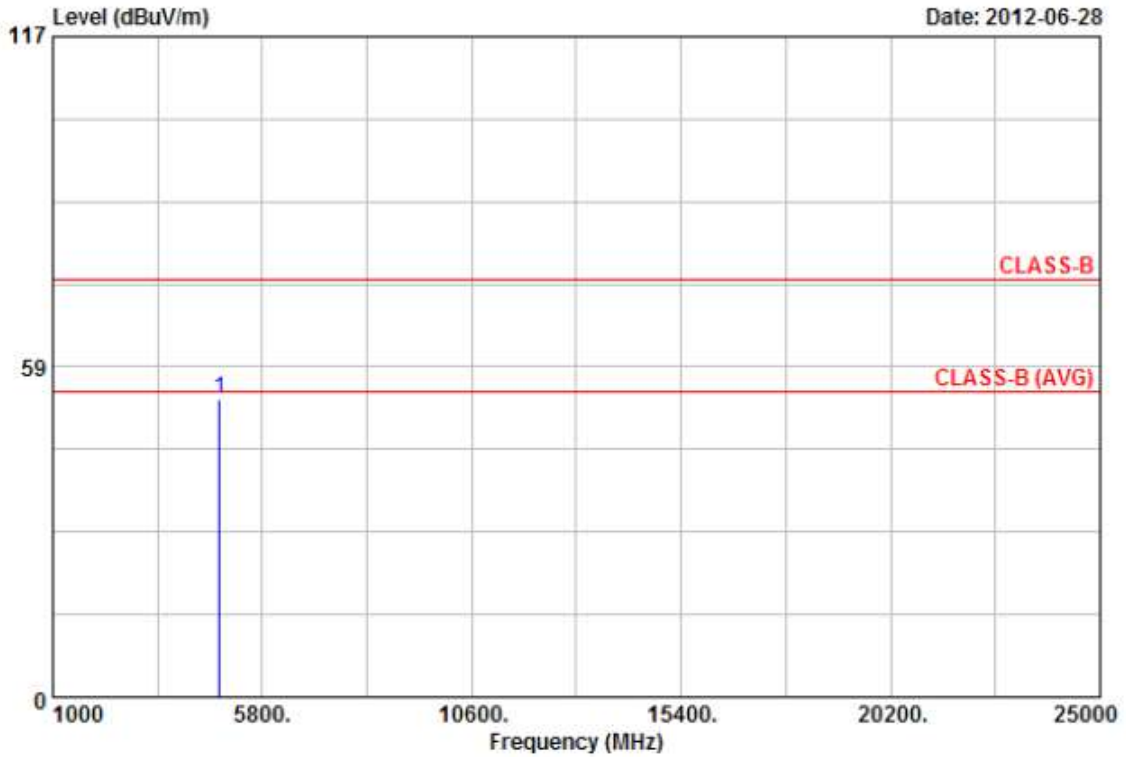
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.10	47.80	5.61	53.41	74.00	-20.59	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



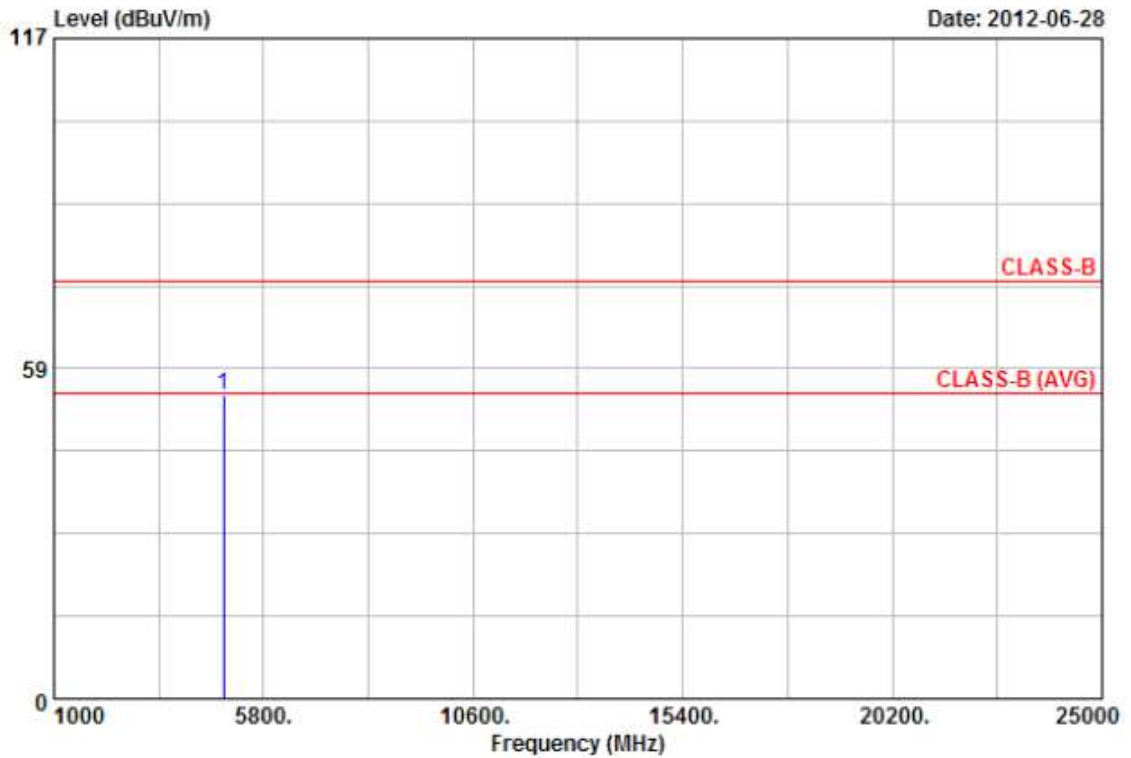
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4822.80	48.71	3.93	52.64	74.00	-21.36	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH6	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



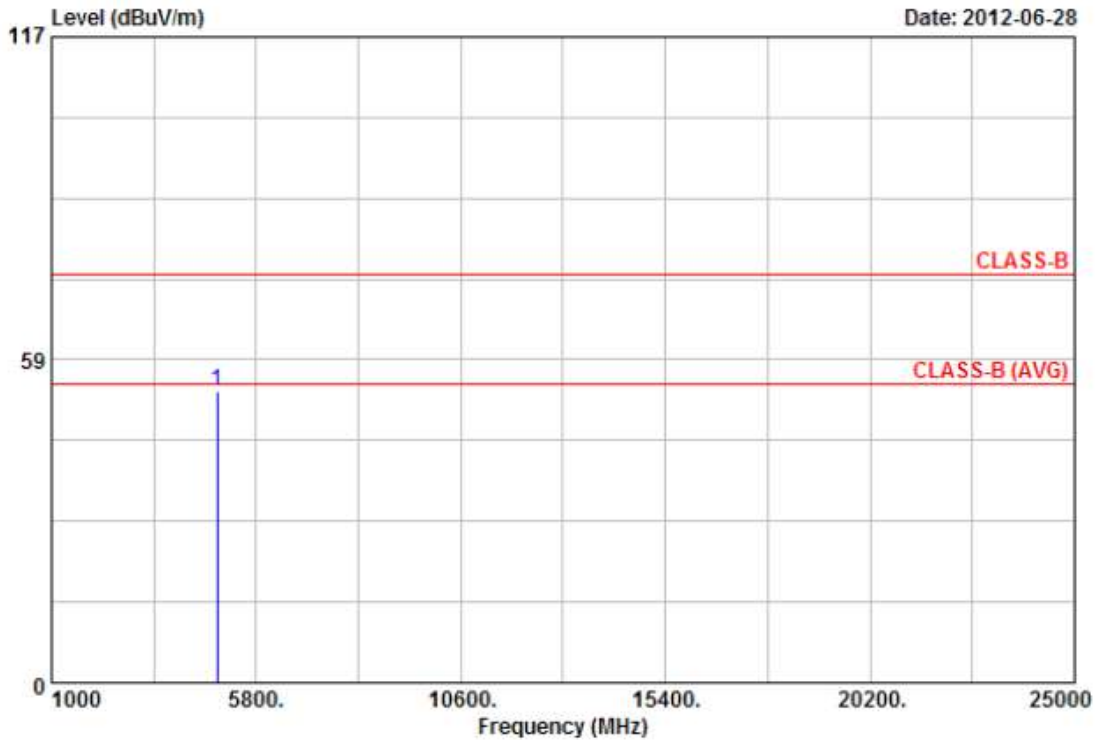
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.70	47.20	6.60	53.80	74.00	-20.20	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH6	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



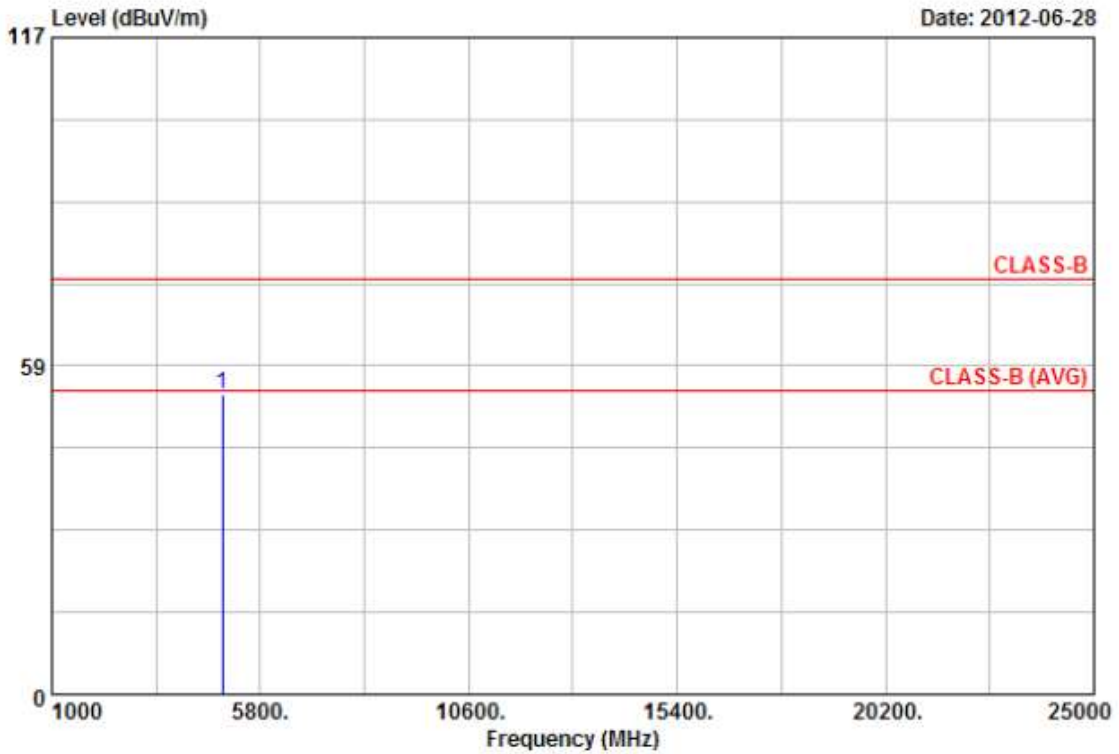
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4875.45	48.14	4.76	52.90	74.00	-21.10	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH11	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



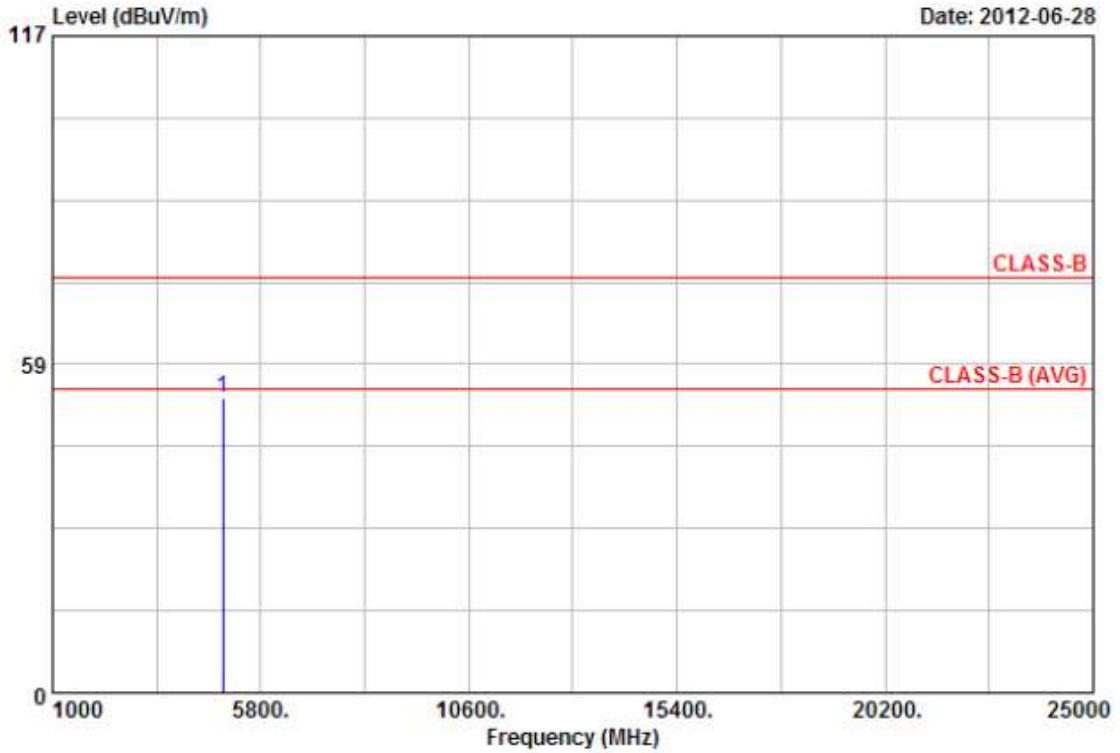
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.80	46.26	7.16	53.42	74.00	-20.58	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH11	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



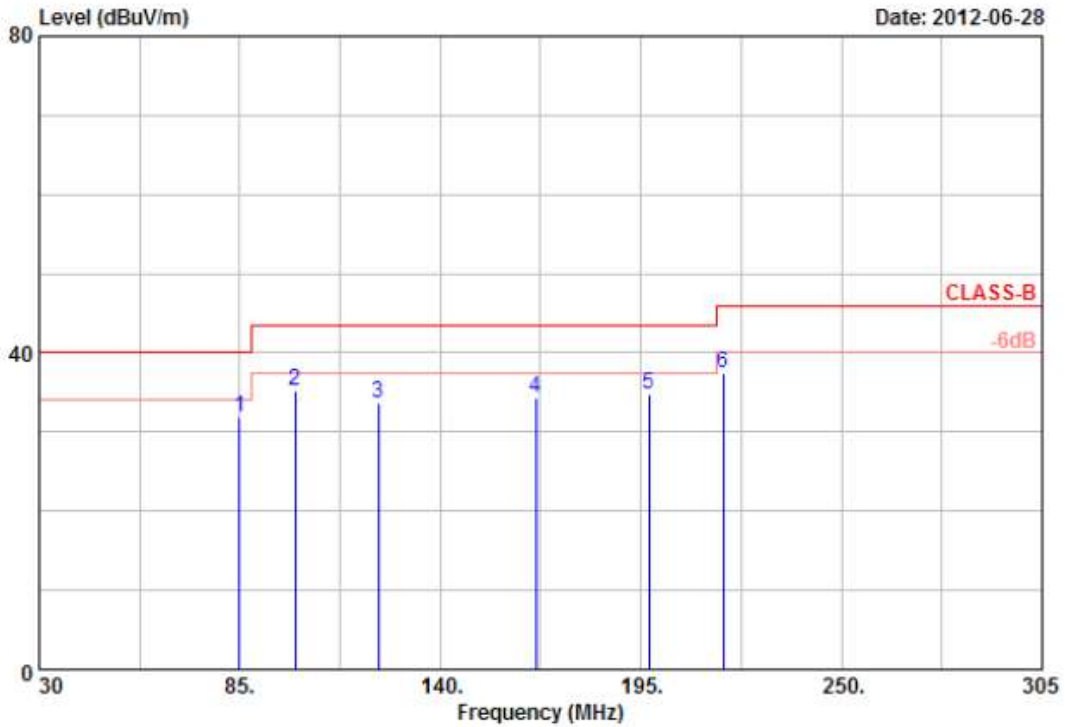
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.38	47.43	5.15	52.58	74.00	-21.42	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



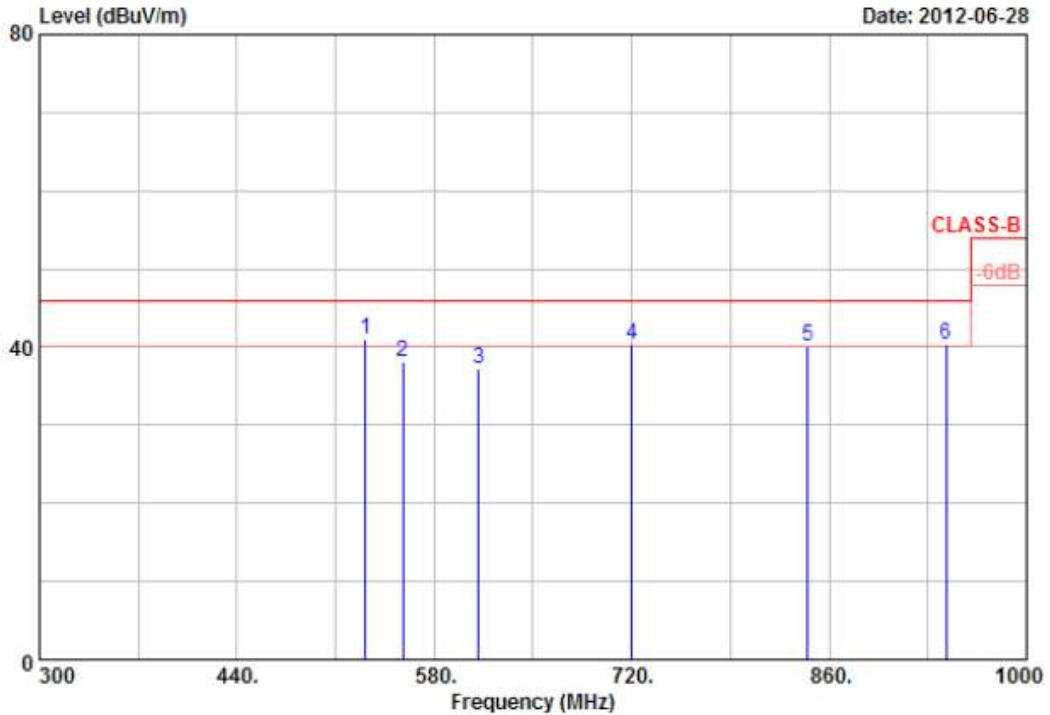
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	85.00	39.50	-7.68	31.82	40.00	-8.18	Peak	100	0
2	100.13	43.95	-8.69	35.26	43.50	-8.24	Peak	100	0
3	122.95	38.56	-4.81	33.75	43.50	-9.75	Peak	100	0
4	166.13	44.63	-10.34	34.29	43.50	-9.21	Peak	100	0
5	197.20	46.36	-11.58	34.78	43.50	-8.72	Peak	100	0
6	217.55	43.80	-6.41	37.39	46.00	-8.61	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	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



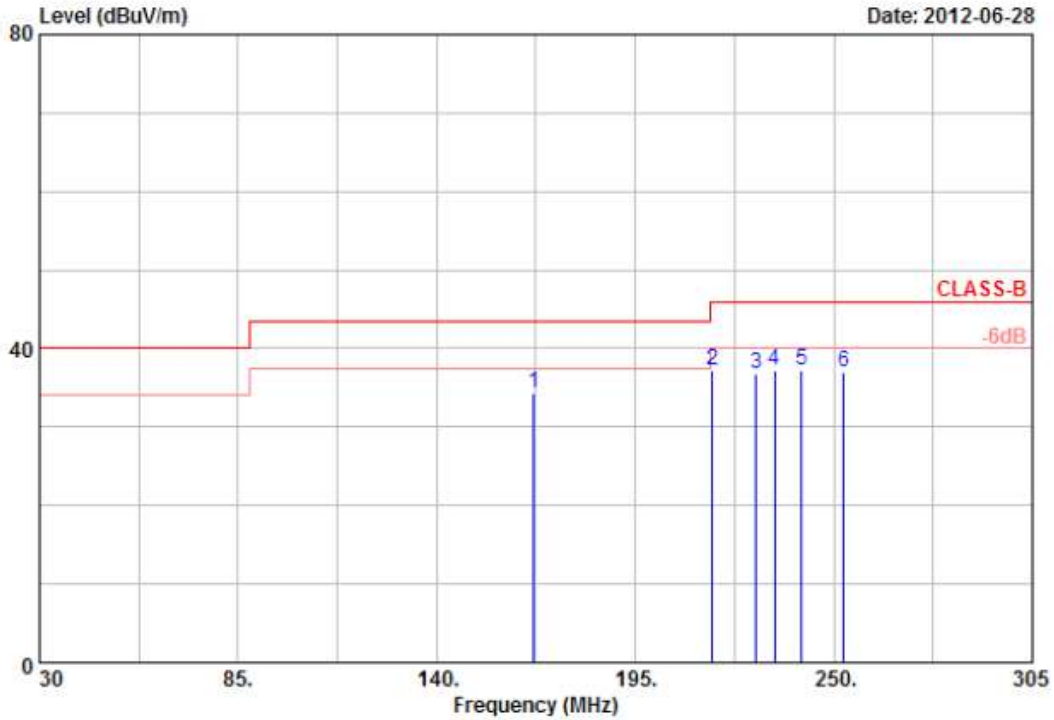
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	531.00	39.54	1.53	41.07	46.00	-4.93	QP	100	0
2	557.60	30.80	7.38	38.18	46.00	-7.82	Peak	100	0
3	611.50	35.93	1.26	37.19	46.00	-8.81	Peak	100	0
4	720.00	33.88	6.41	40.29	46.00	-5.71	QP	100	0
5	844.60	30.56	9.48	40.04	46.00	-5.96	QP	100	0
6	942.60	29.12	11.30	40.42	46.00	-5.58	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 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	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



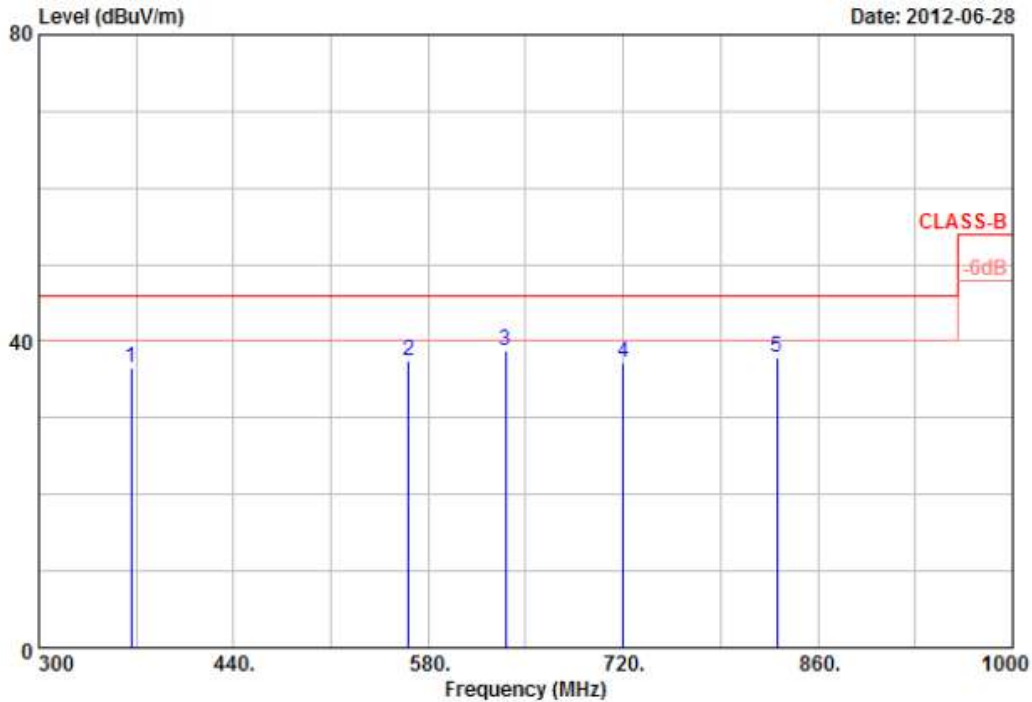
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	166.95	48.55	-14.28	34.27	43.50	-9.23	Peak	100	0
2	216.45	53.30	-16.19	37.11	46.00	-8.89	Peak	100	0
3	228.55	51.76	-14.92	36.84	46.00	-9.16	Peak	100	0
4	233.50	51.90	-14.62	37.28	46.00	-8.72	Peak	100	0
5	241.20	51.09	-13.87	37.22	46.00	-8.78	Peak	100	0
6	252.75	50.43	-13.51	36.92	46.00	-9.08	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	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



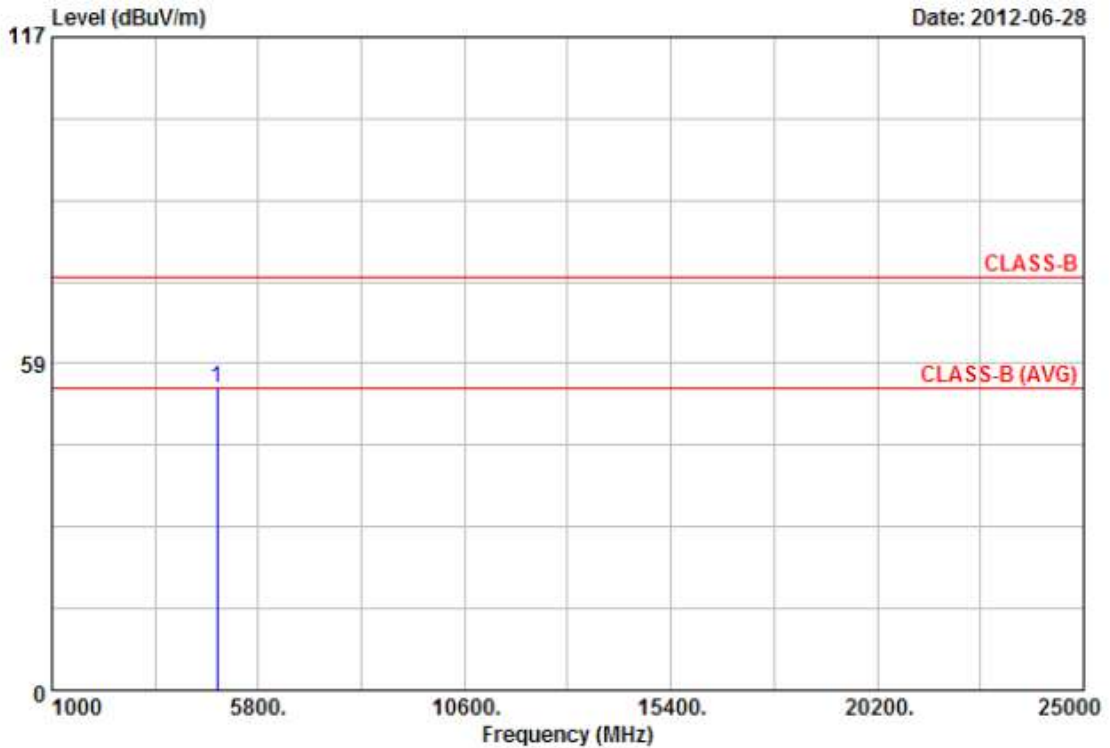
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	366.50	47.99	-11.46	36.53	46.00	-9.47	Peak	100	0
2	566.00	34.99	2.40	37.39	46.00	-8.61	Peak	100	0
3	635.30	35.58	3.15	38.73	46.00	-7.27	Peak	100	0
4	720.00	33.09	4.17	37.26	46.00	-8.74	Peak	100	0
5	830.60	29.35	8.59	37.94	46.00	-8.06	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	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



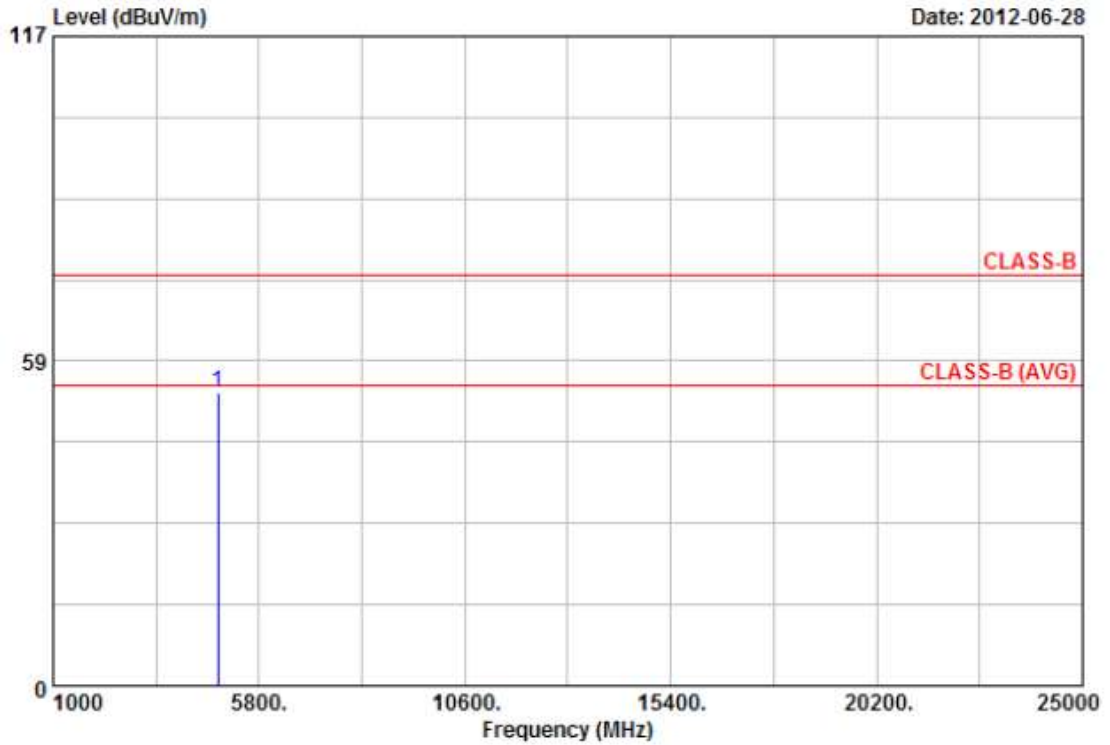
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.25	47.93	6.01	53.94	74.00	-20.06	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



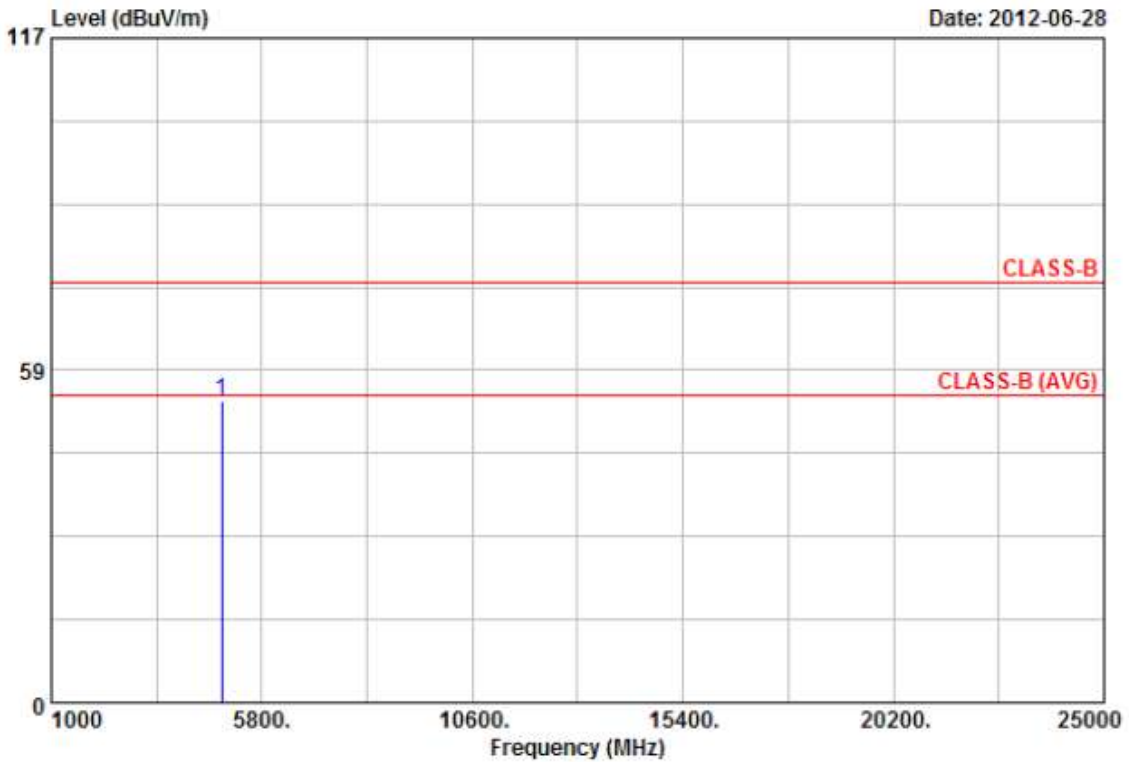
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.83	48.67	4.27	52.94	74.00	-21.06	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH6	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



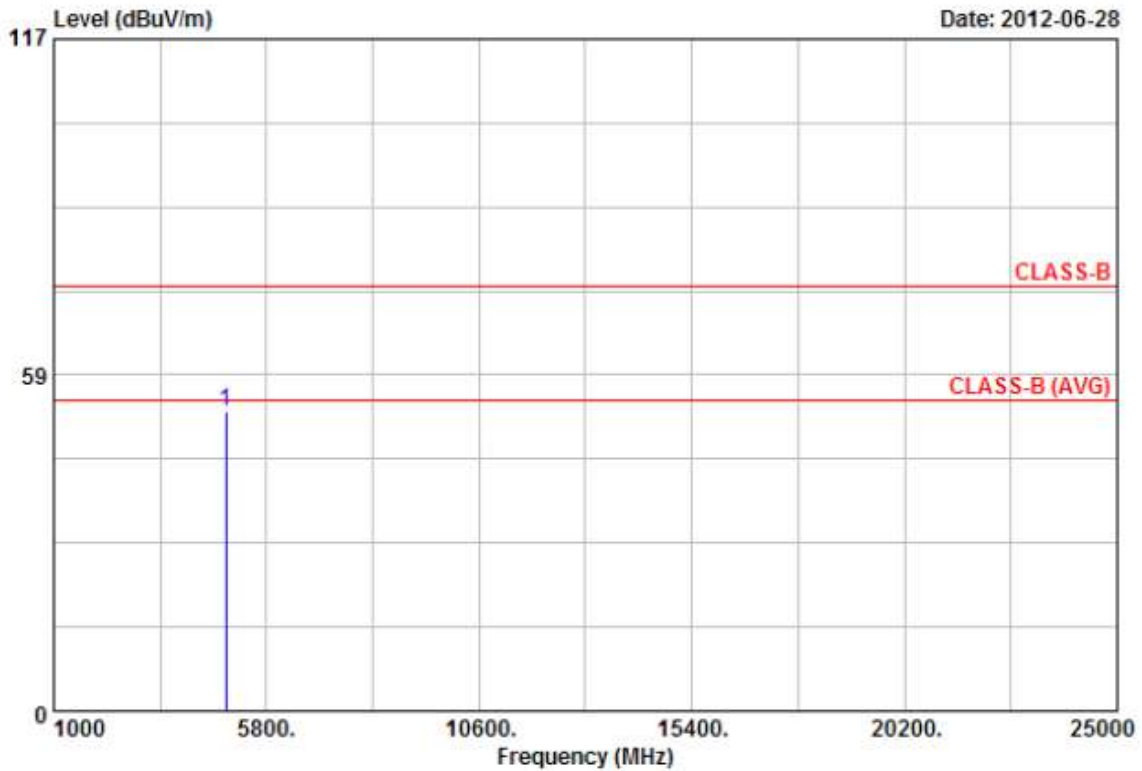
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.03	46.63	6.59	53.22	74.00	-20.78	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT40, CH6	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



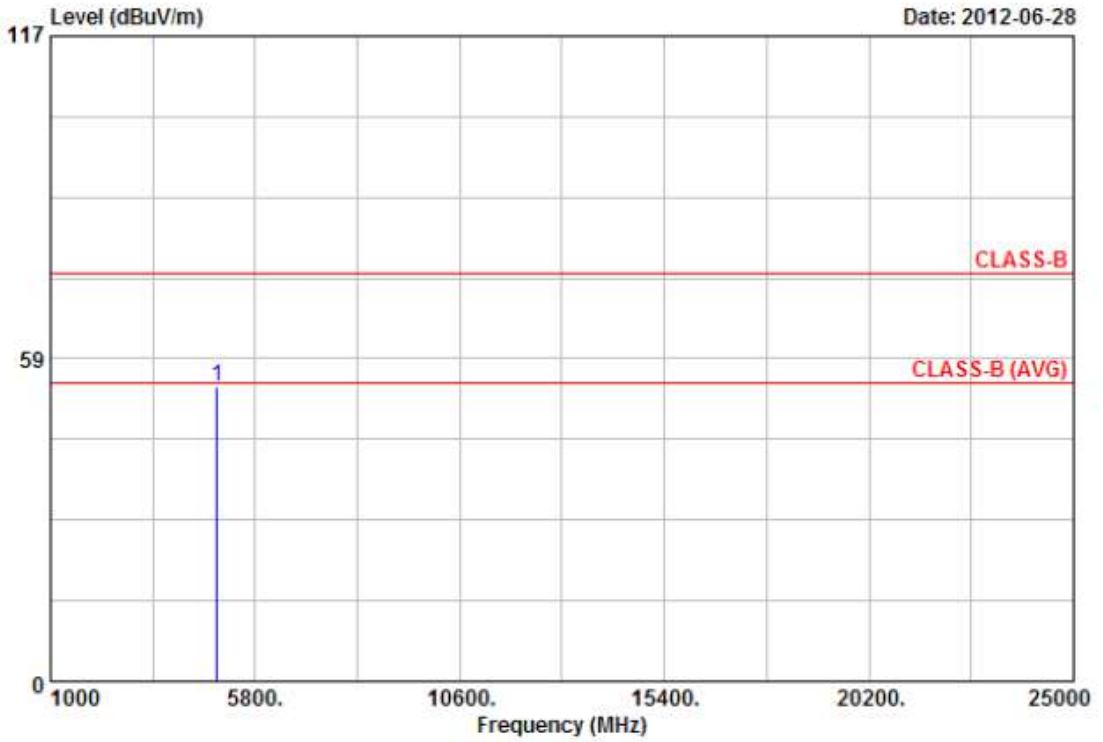
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.10	47.57	4.73	52.30	74.00	-21.70	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH9	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



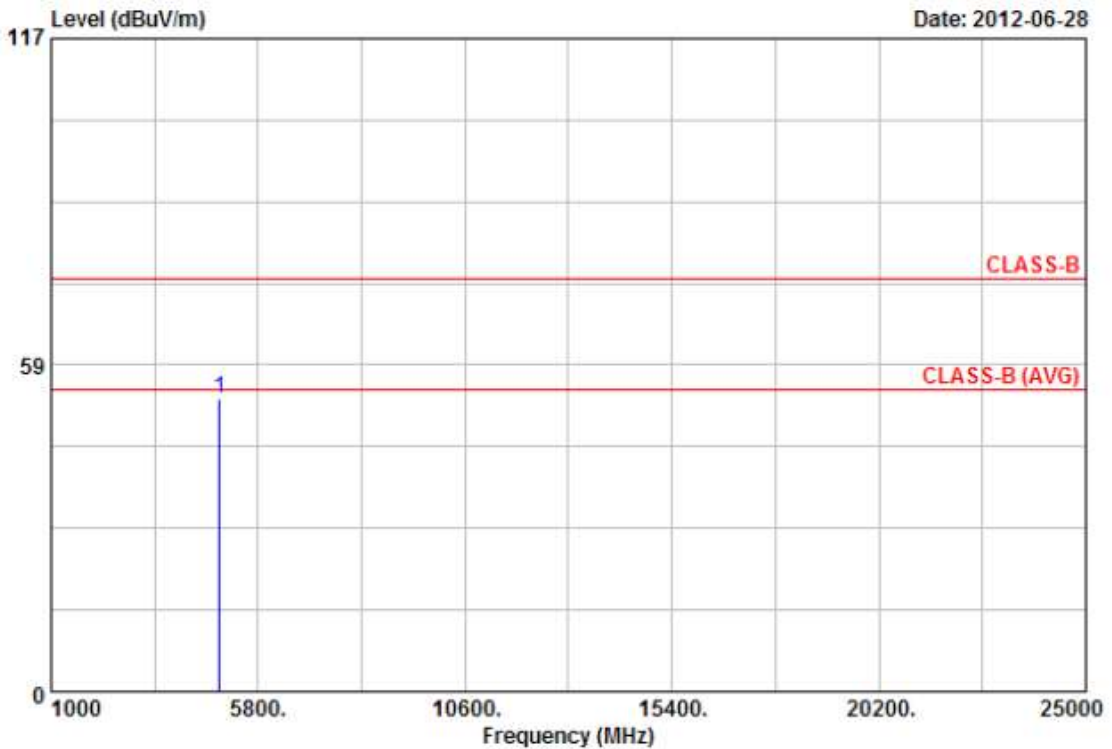
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4904.80	46.46	7.12	53.58	74.00	-20.42	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT40, CH9	Temperature	: 22 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



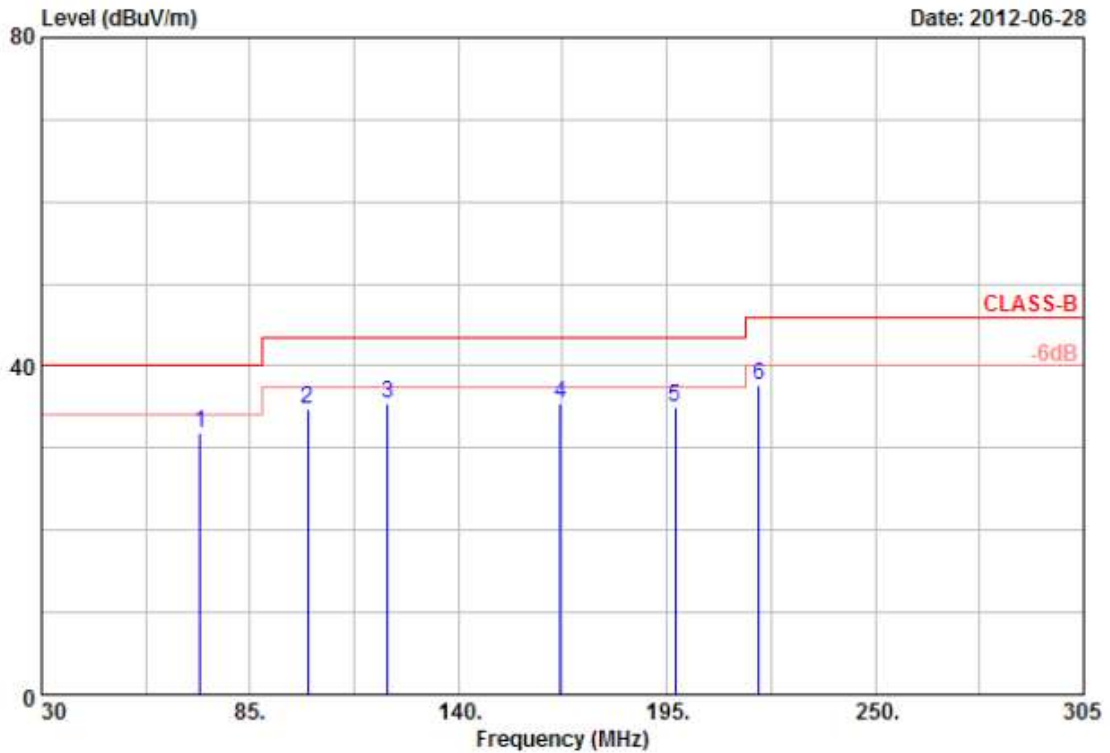
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4904.18	47.42	5.15	52.57	74.00	-21.43	Peak	100	196

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 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11a, CH149	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



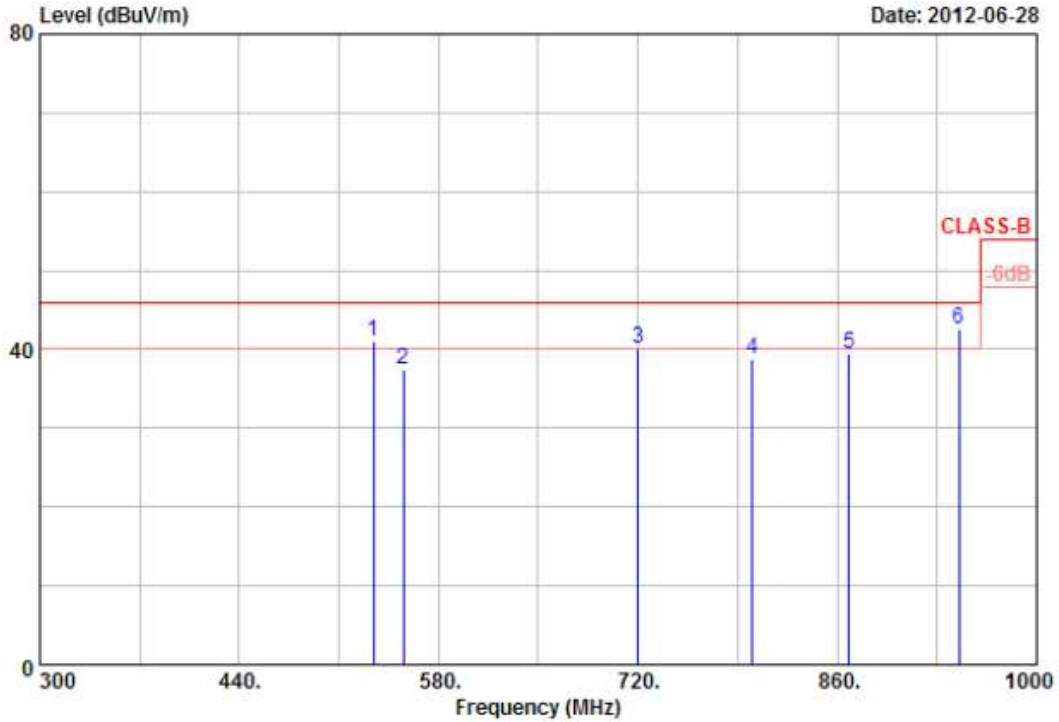
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	71.80	42.36	-10.55	31.81	40.00	-8.19	Peak	100	0
2	100.13	43.46	-8.69	34.77	43.50	-8.73	Peak	100	0
3	121.30	40.21	-4.72	35.49	43.50	-8.01	Peak	100	0
4	166.95	46.43	-11.09	35.34	43.50	-8.16	Peak	100	0
5	197.20	46.61	-11.58	35.03	43.50	-8.47	Peak	100	0
6	219.20	43.73	-6.13	37.60	46.00	-8.40	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. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11a, CH149	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



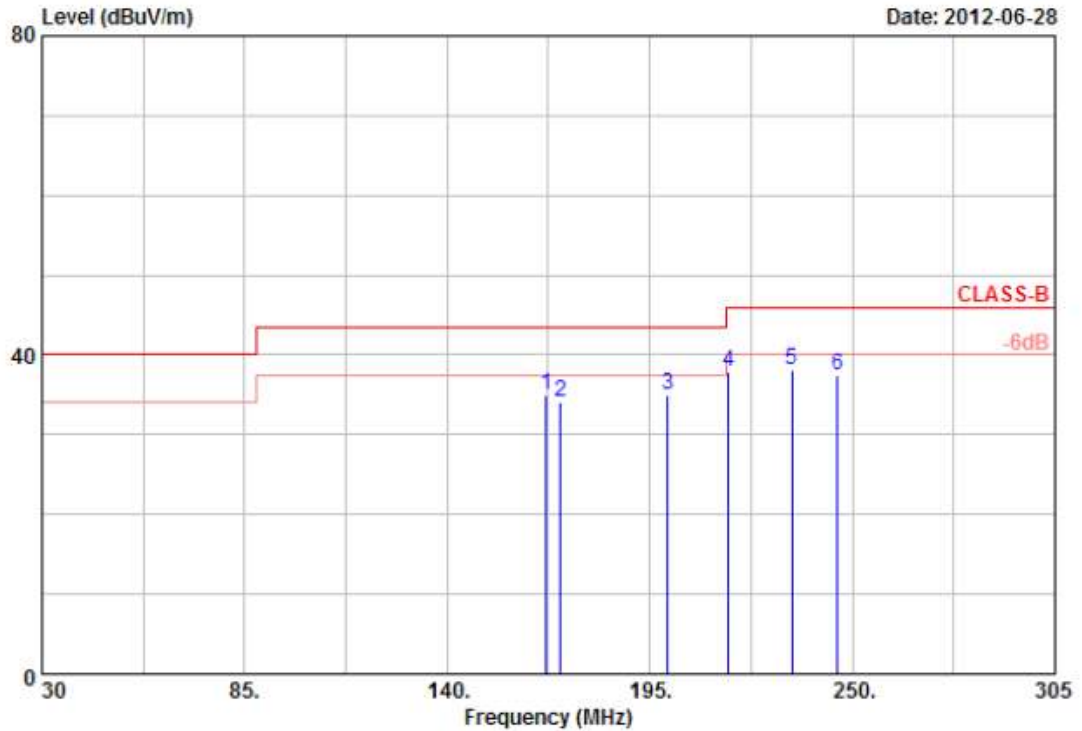
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	534.50	37.62	3.30	40.92	46.00	-5.08	QP	100	0
2	555.50	29.74	7.64	37.38	46.00	-8.62	Peak	100	0
3	720.00	33.68	6.41	40.09	46.00	-5.91	QP	100	0
4	800.50	33.28	5.56	38.84	46.00	-7.16	Peak	100	0
5	868.40	30.39	9.16	39.55	46.00	-6.45	Peak	100	0
6	945.40	31.10	11.40	42.50	46.00	-3.50	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. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: FROM SYSTEM	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11a, CH149	Temperature	: 25 °C
Memo	: Antenna Type: Dipole	Humidity	: 65 %



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	166.95	49.26	-14.28	34.98	43.50	-8.52	Peak	100	0
2	170.80	46.10	-12.06	34.04	43.50	-9.46	Peak	100	0
3	199.95	53.69	-18.76	34.93	43.50	-8.57	Peak	100	0
4	216.45	54.04	-16.19	37.85	46.00	-8.15	Peak	100	0
5	233.50	52.71	-14.62	38.09	46.00	-7.91	Peak	100	0
6	245.88	50.78	-13.35	37.43	46.00	-8.57	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. According to technical experiences, all spurious emission of 802.11a/an mode at Band1~4 channel are almost the same below 1GHz, so that the channel 36 or 38 (for HT40), channel 149 or 151 (for HT40) was chosen as representative in final test.
5. The data is worse case.