



FCC PART 15C TEST REPORT No.2011WLN0313

for

ZTE CORPORATION

CDMA 1X-EVDO Digital Mobile Phone

Model: ZTE N762

With

FCC ID: Q78-ZTEN762

IC ID: 5200A- ZTEN762

Hardware Version: c5mA

Software Version: N762V0.0.0B01

Issued Date: 2011-11-01



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No. DGA-PL-114/01-02

IC O.A.T.S listed: No.6629A-1

Note:The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

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1. TEST LABORATORY

1.1. Testing Location

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Fax: 00861062304793

1.2. Testing Environment

Normal Temperature: 15-30°C
Extreme Temperature: -20/+55°C
Relative Humidity: 30-60%
Air Pressure 990hPa-1040hPa

Note: The climatic requirements above are general exclude the special requirements for dedicated test environments listed in section 5 and some specific test cases in other parts of this report.

1.3. Project data

Testing End Date: 2011-10-25

1.4. Signature



Sun Zhenyu
(Prepared this test report)



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(Reviewed this test report)



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2. CLIENT INFORMATION

2.1. Applicant Information

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2.2. Manufacturer Information

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3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	CDMA 1X-EVDO Digital Mobile Phone
Model	ZTE N762
FCC ID	Q78-ZTEN762
IC ID	5200A- ZTEN762
With WLAN Function	Yes
Frequency Range	ISM 2400MHz~2483.5MHz
Type of Modulation	DSSS/CCK/OFDM
Number of Channels	11
Antenna	Integral Antenna
MAX Conducted Power	20.91dBm(OFDM)
Power Supply	3.7V DC by Battery

Note: Photographs of EUT are shown in ANNEX C of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	c5mA	N762V0.0.0B01
EUT2	/	c5mA	N762V0.0.0B01

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Battery	Li3715T42P3h415266	/
AE2	Charger	STC-A22O50I700USBA-Z	/

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment Under Test (EUT) is a model of CDMA 1X-EVDO Digital Mobile Phone with integrated antenna. It consists of normal options: Battery and Charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	Oct, 2009 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2009
KDB558074	Measurement of Digital Transmission Systems Operating under Section 15.247	March 23, 2005

5. LABORATORY ENVIRONMENT

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing::

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Shielding Room2 (7.30 meters×4.00 meters×3.80 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (a)	A8.4	P
Peak Power Spectral Density	15.247 (d)	A8.2, A8.3	P
Occupied 6dB Bandwidth	15.247 (d)	A8.2	P
Band Edges Compliance	15.247 (b)	A8.5	P
Transmitter Spurious Emission - Conducted	15.247	A8.5	P
Transmitter Spurious Emission - Radiated	15.247, 15.209, 15.209	A8.5	P
AC Powerline Conducted Emission	15.107, 15.207	7.2.2	P

Please refer to **ANNEX A** for detail.

The measurement is made according to Public notice KDB558074 and ANSI C63.4.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by TMC
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

TMC has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage
V max	High Voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	T nom	26°C
Voltage	V nom	3.6V(By battery)
Humidity	H nom	44%
Air Pressure	A nom	1010hPa

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2012-07-19
2	Spectrum Analyzer	MS2687B	6200819812	Anritsu	2012-09-22
3	Test Receiver	ESS	847151/015	Rohde & Schwarz	2011-10-30
4	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2012-08-12

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2012-08-11
2	BiLog Antenna	3142B	9908-1403	EMCO	2012-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2011-12-25

Anechoic chamber

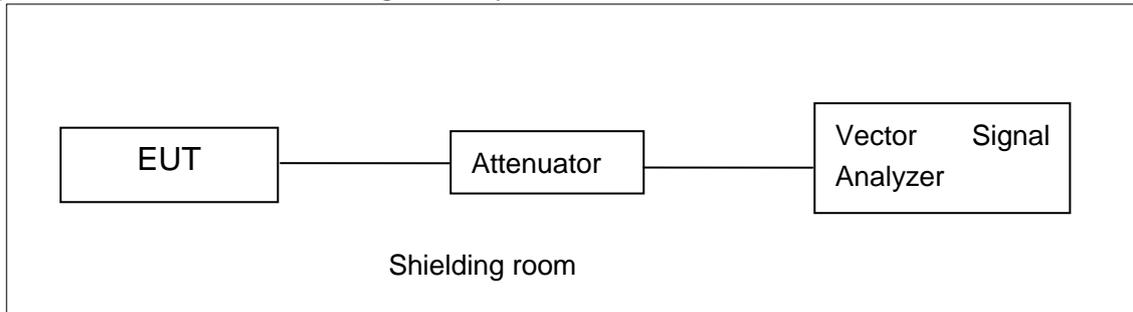
Anechoic chamber by Frankonia German.

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

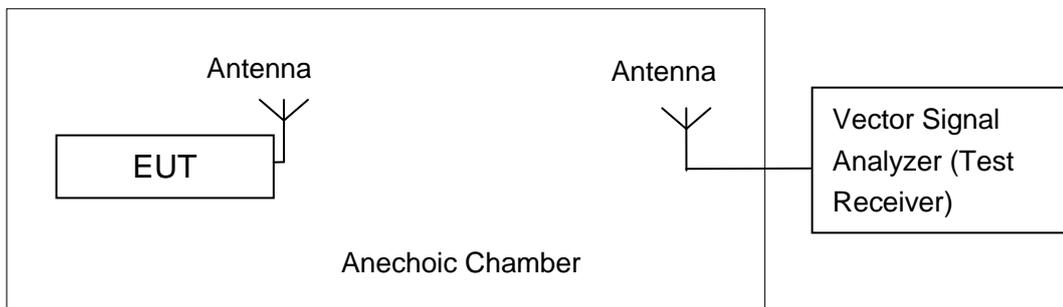


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to ANSI C63.4 and KDB558074

A.2. Maximum Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.247(b) RSS-210 A8.4	< 30

The measurement is made according to ANSI C63.4 and KDB558074, and power output option 1 (RBW=20MHz) in KDB558074 is used for the test. EUT is operating in continuous transmitting mode

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

A.2.1. Maximum Peak Output Power-conducted

Measurement Results:

802.11b/g mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	16.86		
	2	17.47		
	5.5	18.36		
	11	19.84	19.58	20.61
802.11g	6	20.06		
	9	20.04		
	12	19.72		
	18	19.65		
	24	20.19		
	36	20.65	20.60	20.91
	48	20.54		
	54	20.19		

The data rate 11Mbps and 36Mbps are selected as worse condition, and the following cases are performed with this condition.

802.11n mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	/	/	/
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/

	MCS6	/	/	/
	MCS7	/	/	/
802.11n (40MHz)	MCS0	/	/	/
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(d) RSS-210 A8.2, A8.3	< 8 dBm/3 kHz

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Results:

802.11b/g mode

Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
802.11b	1	Fig.1	-6.07	P
	6	Fig.2	-6.35	P
	11	Fig.3	-5.80	P
802.11g	1	Fig.4	-11.98	P
	6	Fig.5	-11.36	P
	11	Fig.6	-10.71	P

802.11b/g mode

Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
802.11n (20MHz)	/	/	/	/
	/	/	/	/
	/	/	/	/
802.11n (40MHz)	/	/	/	/
	/	/	/	/
	/	/	/	/

Conclusion: PASS

Test graphs as below:

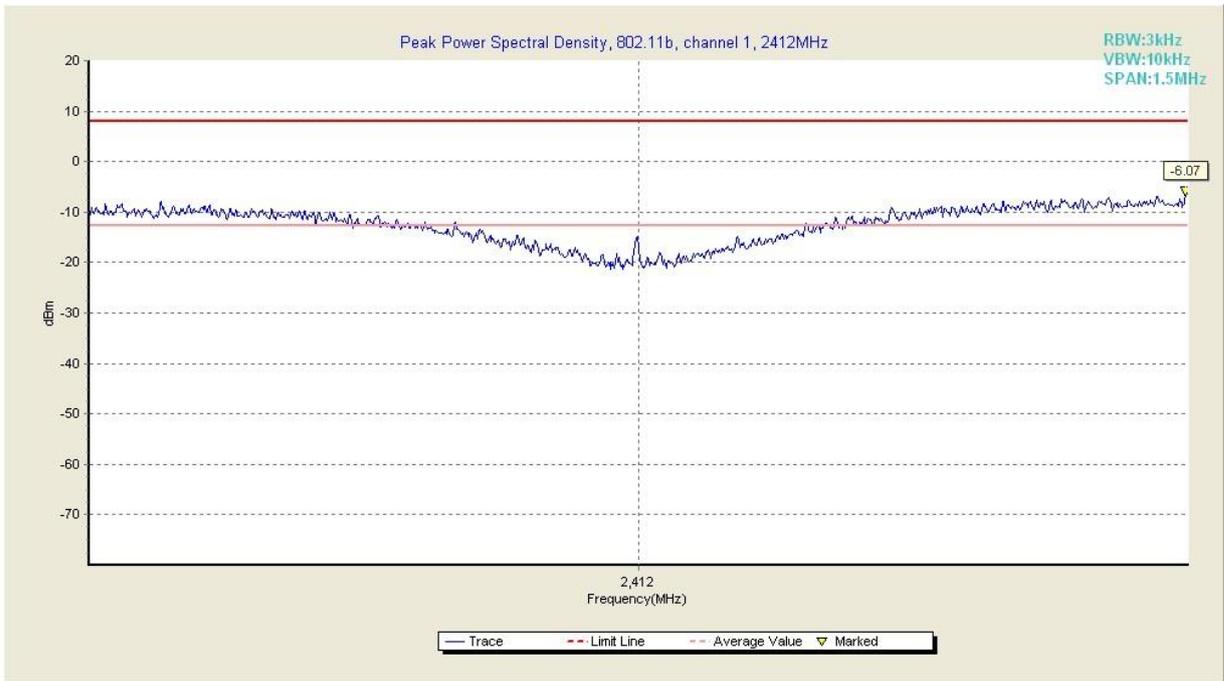


Fig. 1 Power Spectral Density (802.11b, Ch 1)

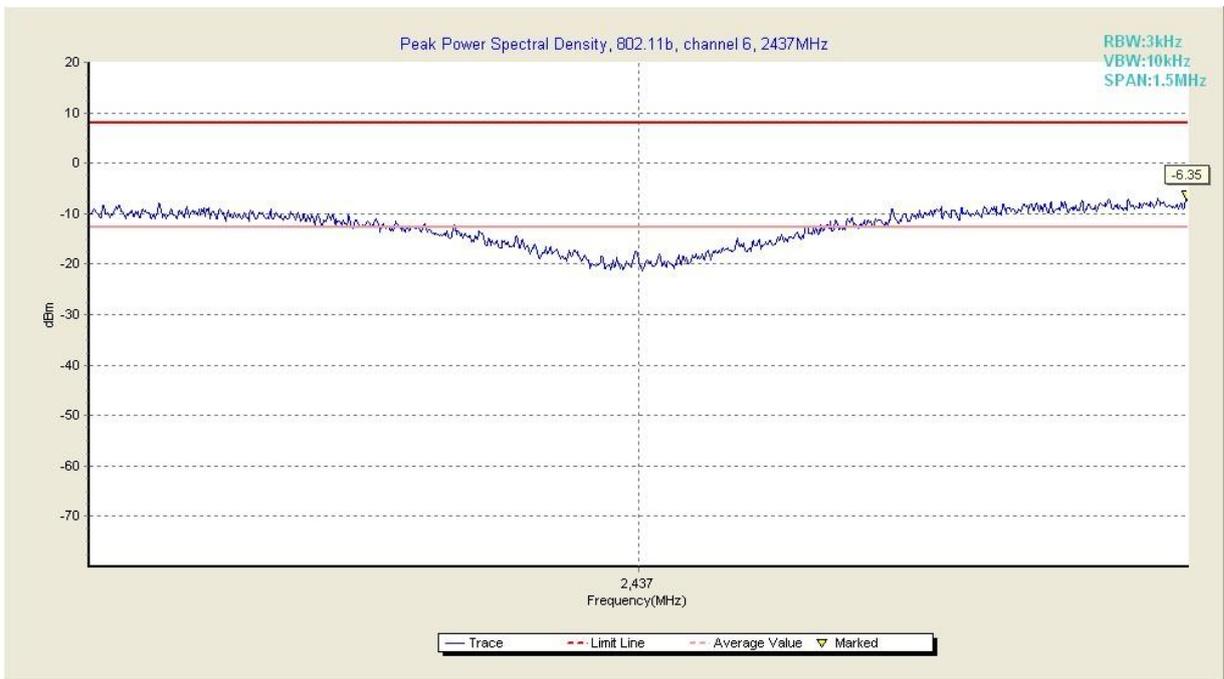


Fig. 2 Power Spectral Density (802.11b, Ch 6)

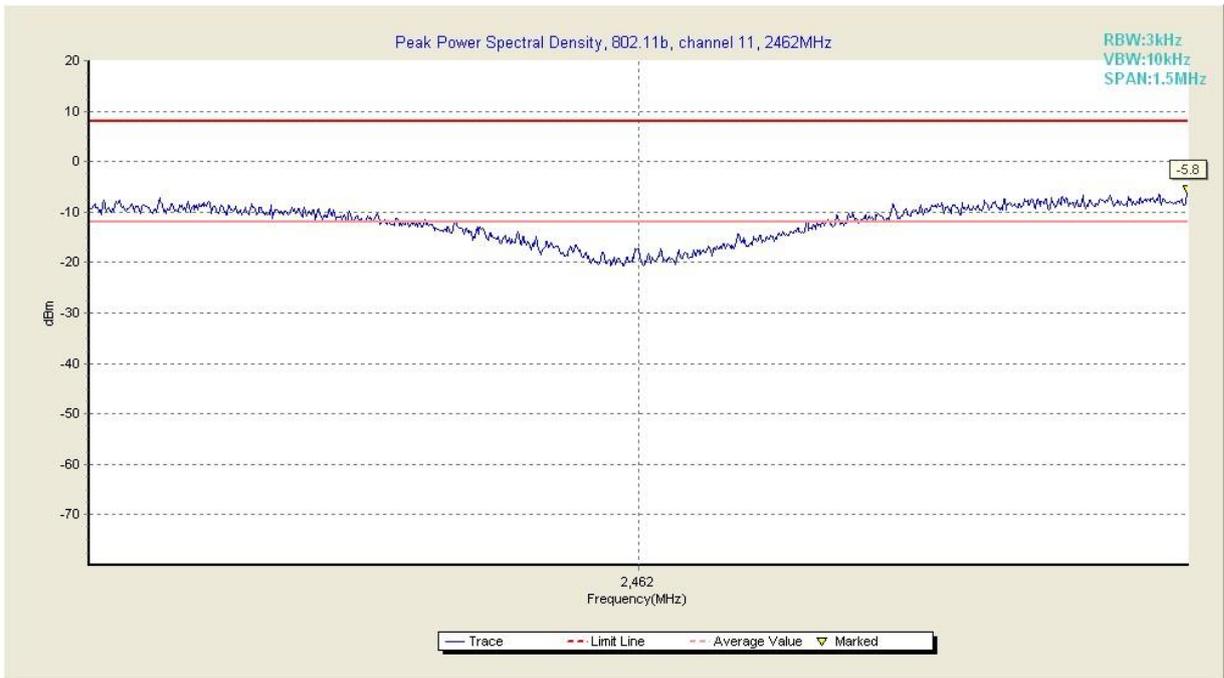


Fig. 3 Power Spectral Density (802.11b, Ch 11)

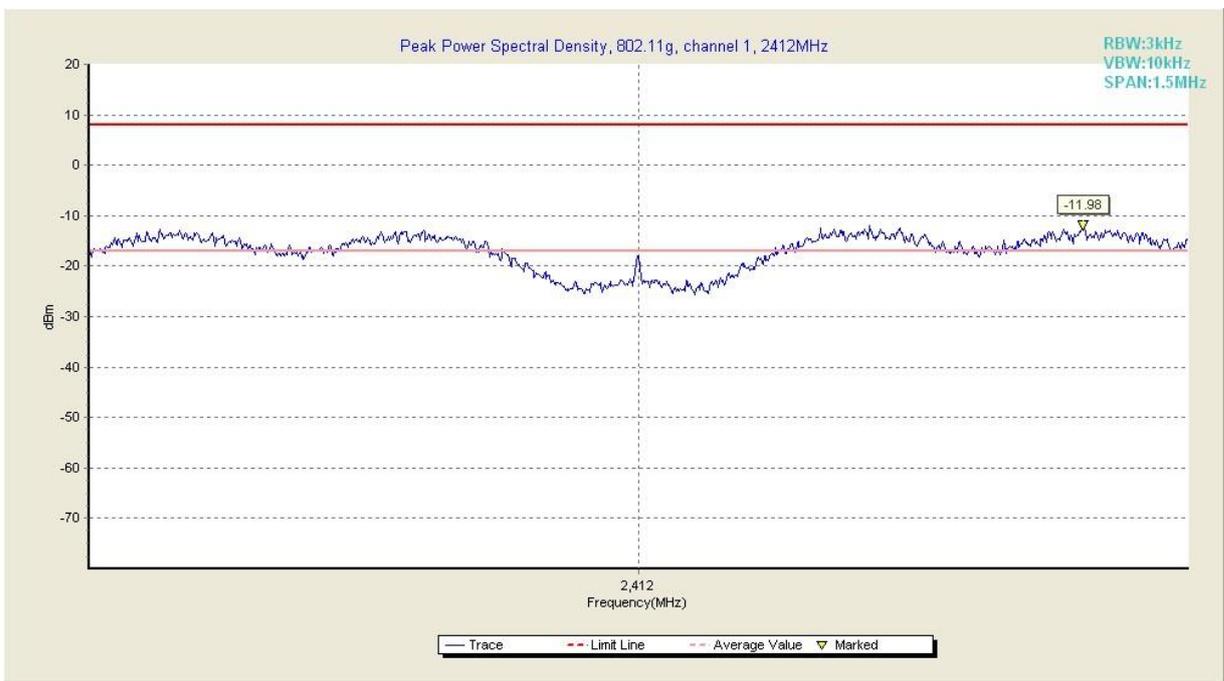


Fig. 4 Power Spectral Density (802.11g, Ch 1)

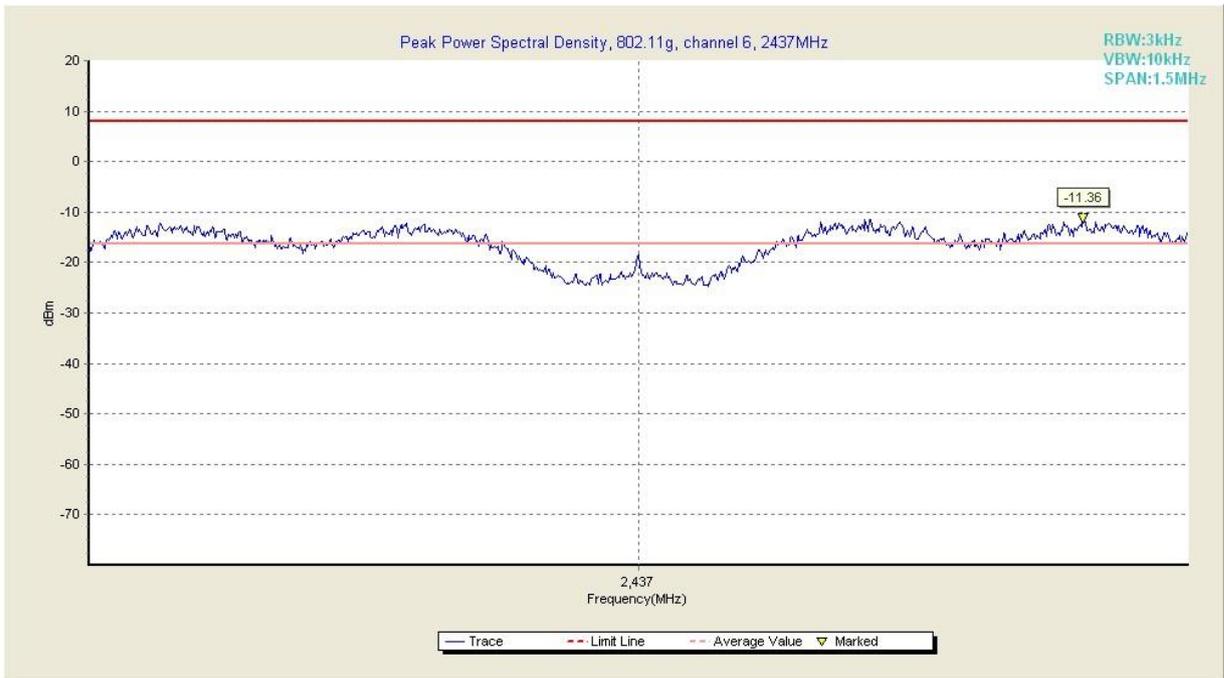


Fig. 5 Power Spectral Density (802.11g, Ch 6)

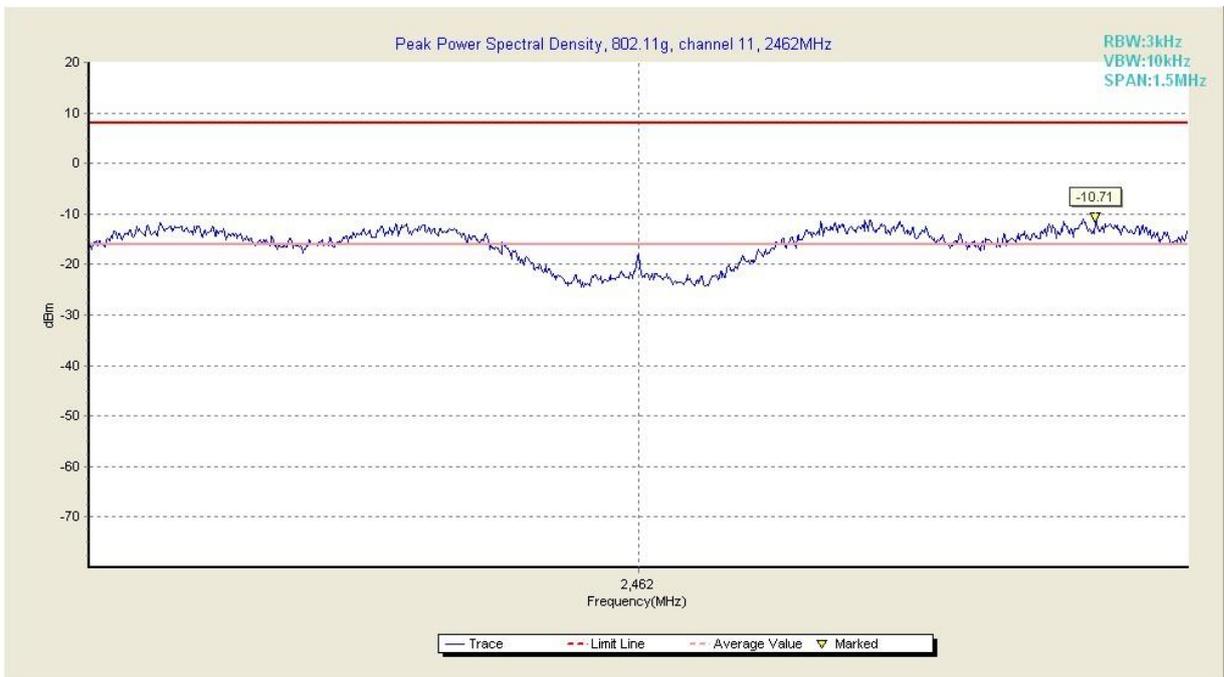


Fig. 6 Power Spectral Density (802.11g, Ch 11)

A.4. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a) RSS-210 A8.2	≥ 500

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

802.11b/g mode

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11b	1	Fig.7	7300	P
	6	Fig.8	6900	P
	11	Fig.9	7200	P
802.11g	1	Fig.10	15250	P
	6	Fig.11	15150	P
	11	Fig.12	15150	P

802.11n mode

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11n (20MHz)	/	/	/	/
	/	/	/	/
	/	/	/	/
802.11n (40MHz)	/	/	/	/
	/	/	/	/
	/	/	/	/

Conclusion: PASS

Test graphs as below:



Fig. 7 Occupied 6dB Bandwidth (802.11b, Ch 1)

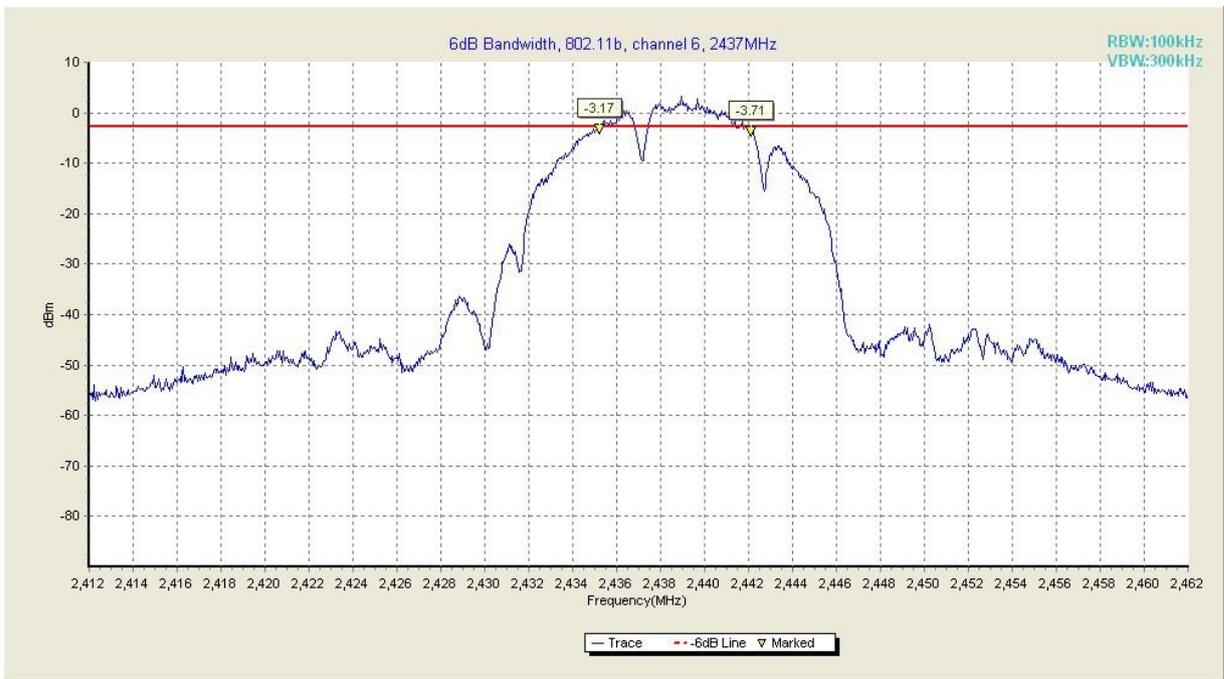


Fig. 8 Occupied 6dB Bandwidth (802.11b, Ch 6)



Fig. 9 Occupied 6dB Bandwidth (802.11b, Ch 11)

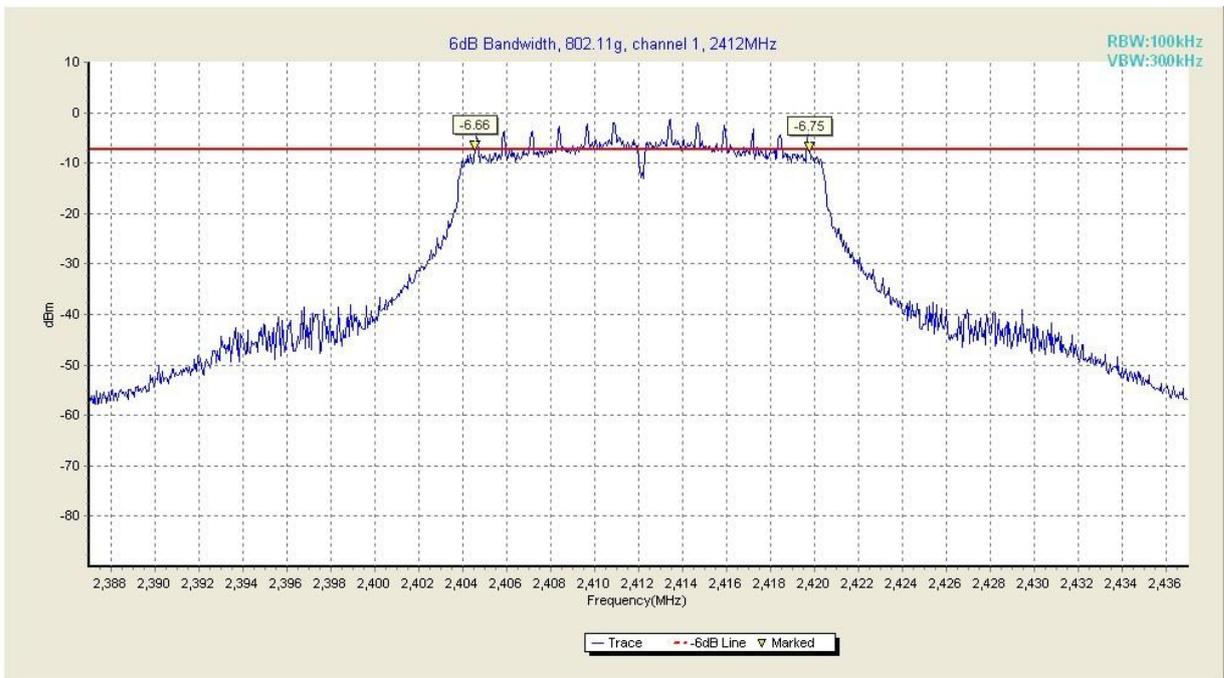


Fig. 10 Occupied 6dB Bandwidth (802.11g, Ch 1)

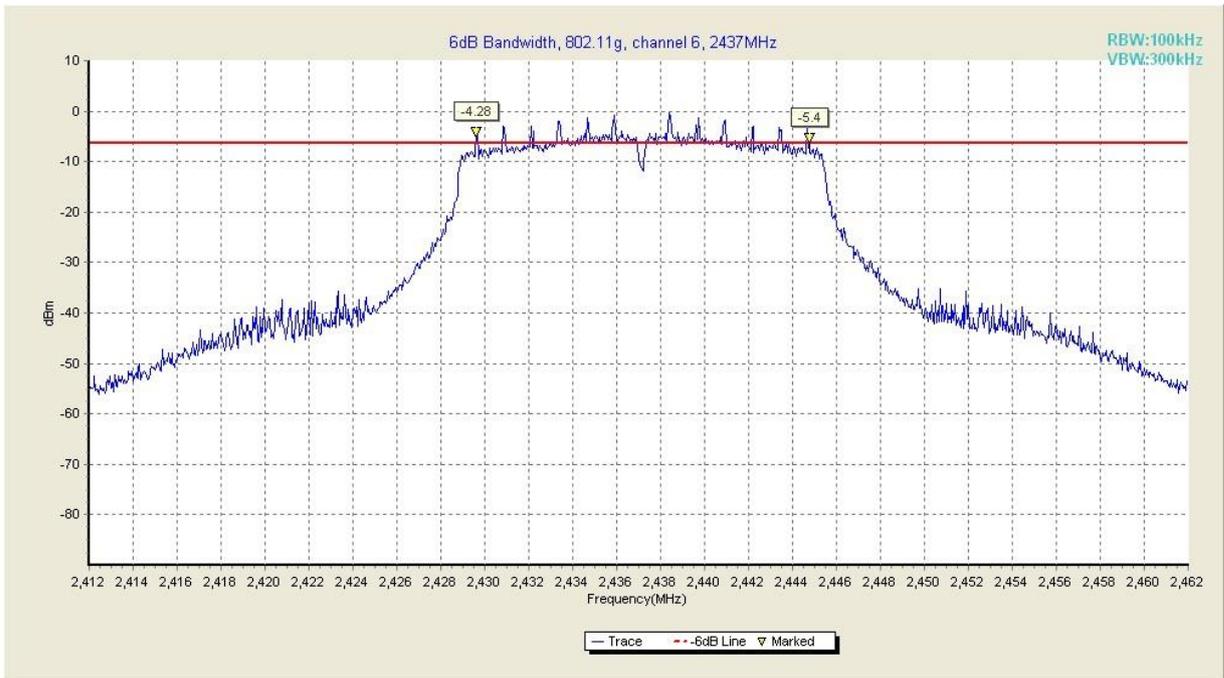


Fig. 11 Occupied 6dB Bandwidth (802.11g, Ch 6)

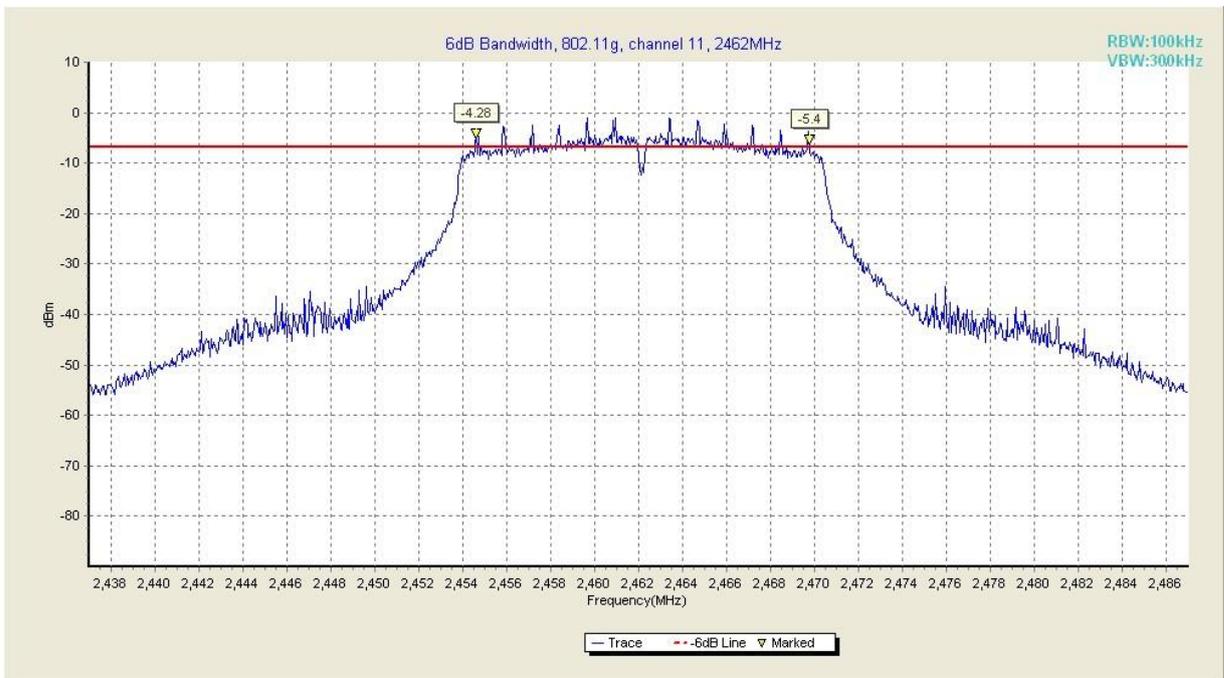


Fig. 12 Occupied 6dB Bandwidth (802.11g, Ch 11)

A.5. Band Edges Compliance

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d) RSS-210 A8.5	> 20

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Result:

802.11b/g mode

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.13	P
	11	Fig.14	P
802.11g	1	Fig.15	P
	11	Fig.16	P

802.11n mode

Mode	Channel	Test Results	Conclusion
802.11 (20MHz)	/	/	/
	/	/	/
802.11 (40MHz)	/	/	/
	/	/	/

Conclusion: PASS

Test graphs as below:



Fig. 13 Band Edges (802.11b, Ch 1)



Fig. 14 Band Edges (802.11b, Ch 11)



Fig. 15 Band Edges (802.11g, Ch 1)

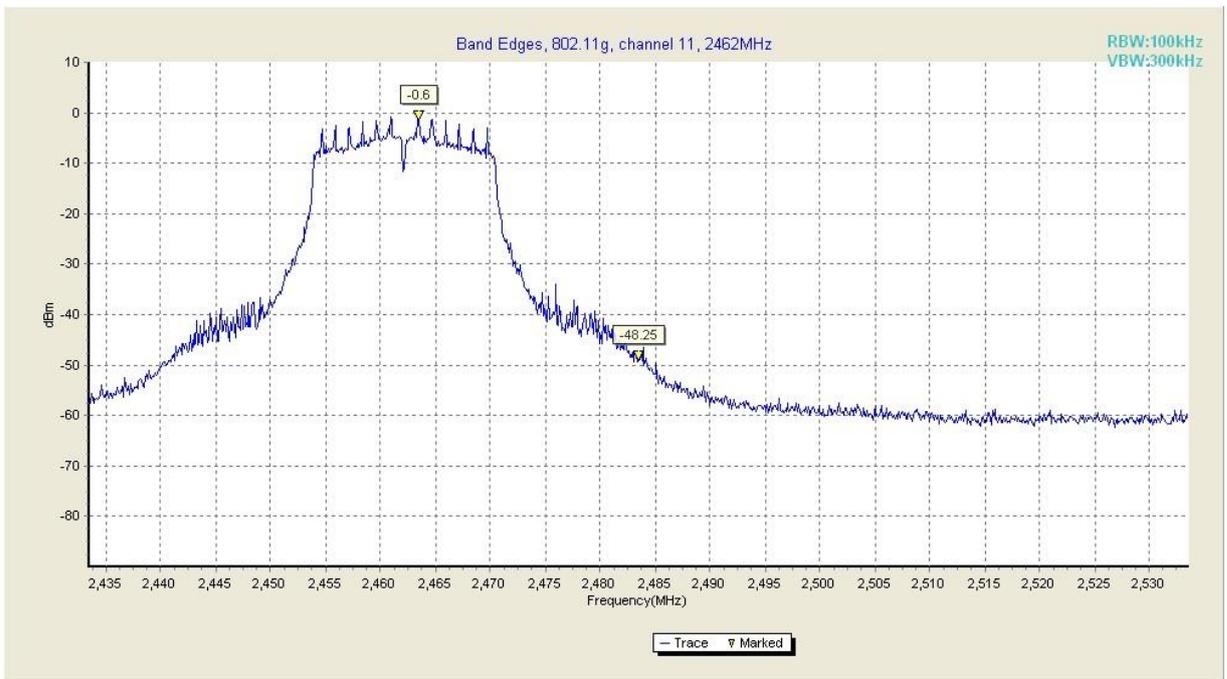


Fig. 16 Band Edges (802.11g, Ch 11)

A.6. Transmitter Spurious Emission

A.6.1 Transmitter Spurious Emission - Conducted

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d) RSS-210 A8.5	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 2\text{GHz}$	0.63
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	0.82
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.55
$8\text{GHz} \leq f \leq 20\text{GHz}$	1.86
$20\text{GHz} \leq f \leq 22\text{GHz}$	1.90
$22\text{GHz} \leq f \leq 26\text{GHz}$	2.20

Measurement Results:

802.11b/g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.17	P
		30 MHz ~ 26 GHz	Fig.18	P
	6	2.437 GHz	Fig.19	P
		30 MHz ~ 26 GHz	Fig.20	P
	11	2.472 GHz	Fig.21	P
		30 MHz ~ 26 GHz	Fig.22	P
802.11g	1	2.412 GHz	Fig.23	P
		30 MHz ~ 26 GHz	Fig.24	P
	6	2.437 GHz	Fig.25	P
		30 MHz ~ 26 GHz	Fig.26	P
	11	2.472 GHz	Fig.27	P
		30 MHz ~ 26 GHz	Fig.28	P

802.11n mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	/	/	/
		/	/	/
	6	/	/	/
		/	/	/
	11	/	/	/
		/	/	/

		/	/	/
802.11n (40MHz)	1	/	/	/
		/	/	/
	6	/	/	/
		/	/	/
	11	/	/	/
		/	/	/

Conclusion: PASS

Test graphs as below:

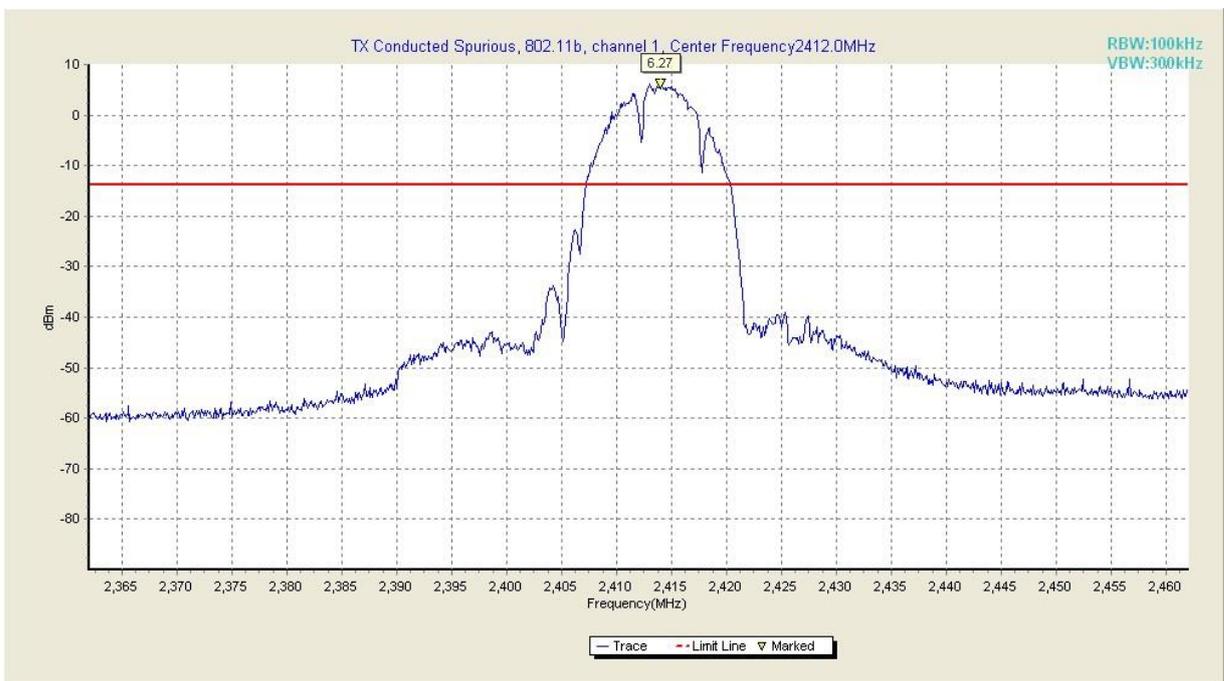


Fig. 17 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)

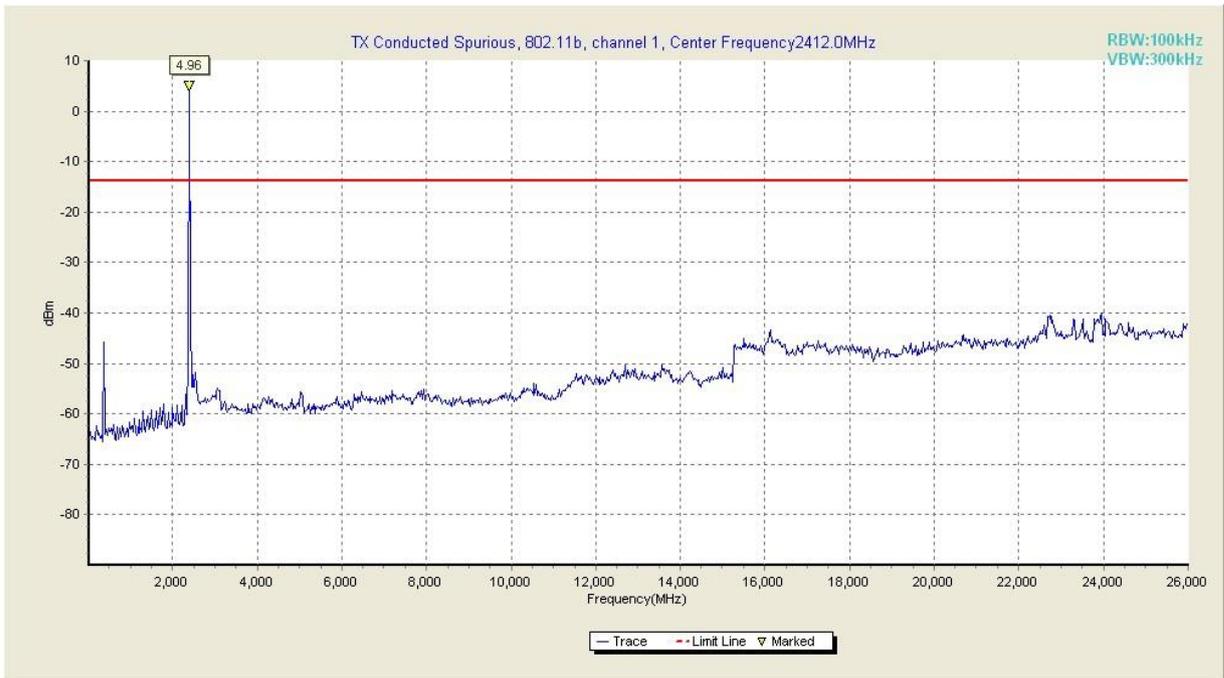


Fig. 18 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-26 GHz)

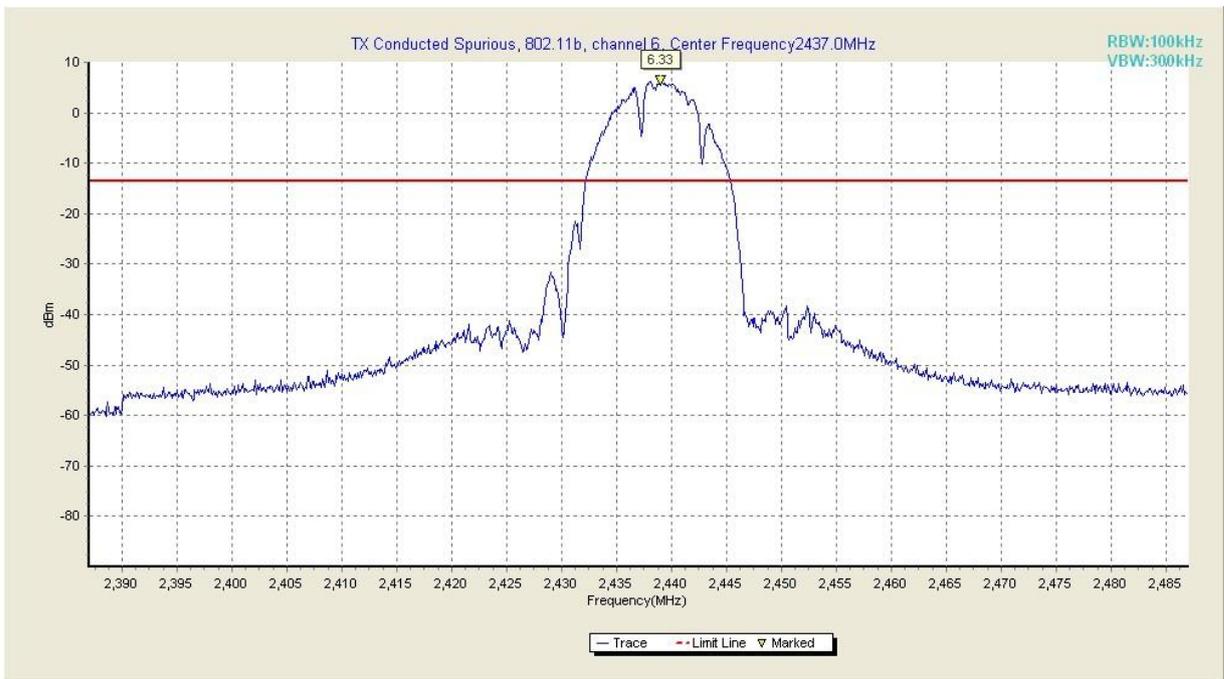


Fig. 19 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)

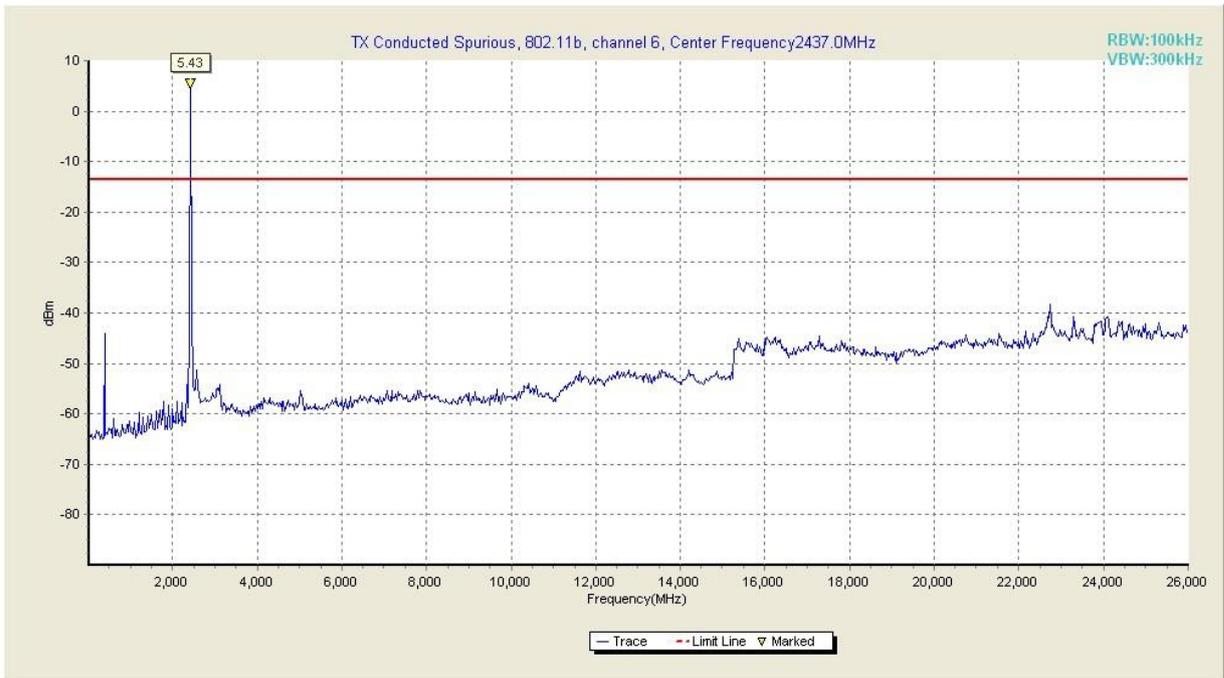


Fig. 20 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-26 GHz)

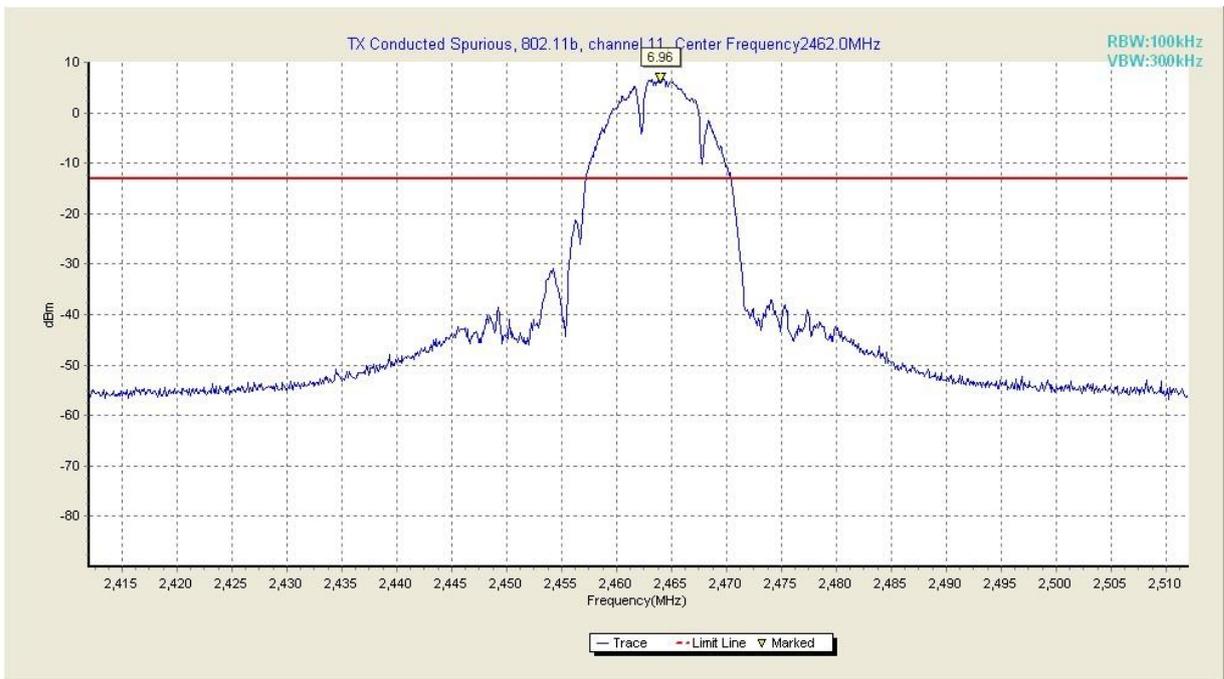


Fig. 21 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)

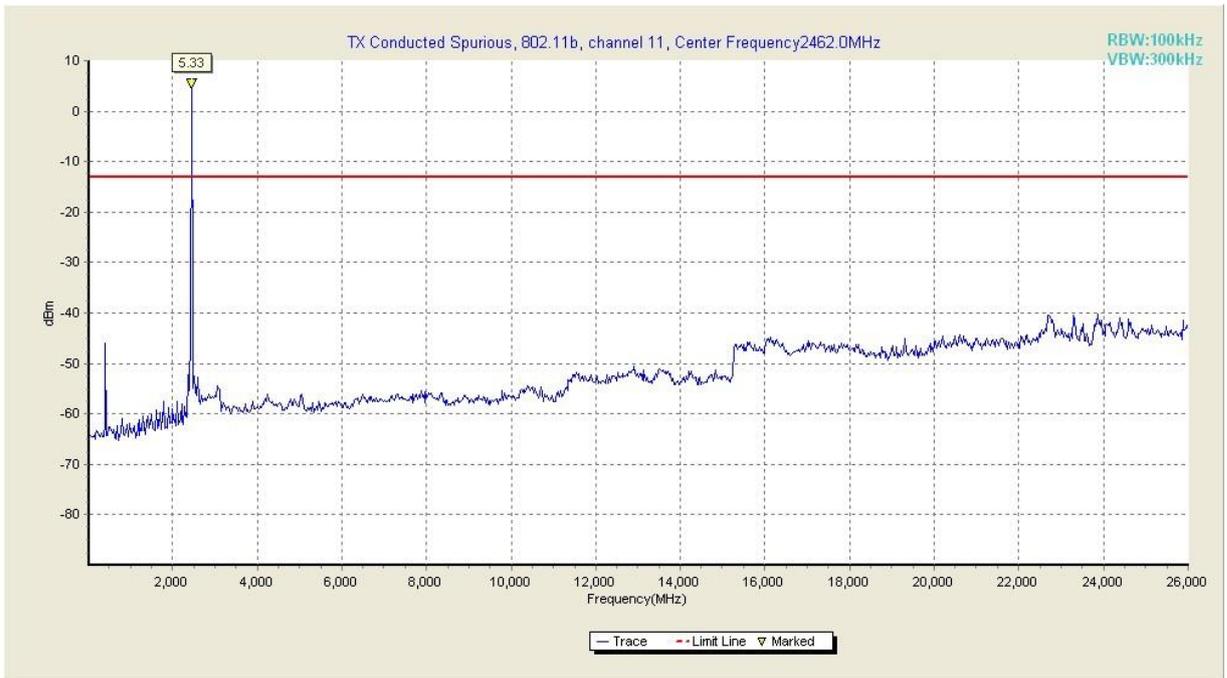


Fig. 22 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-26 GHz)

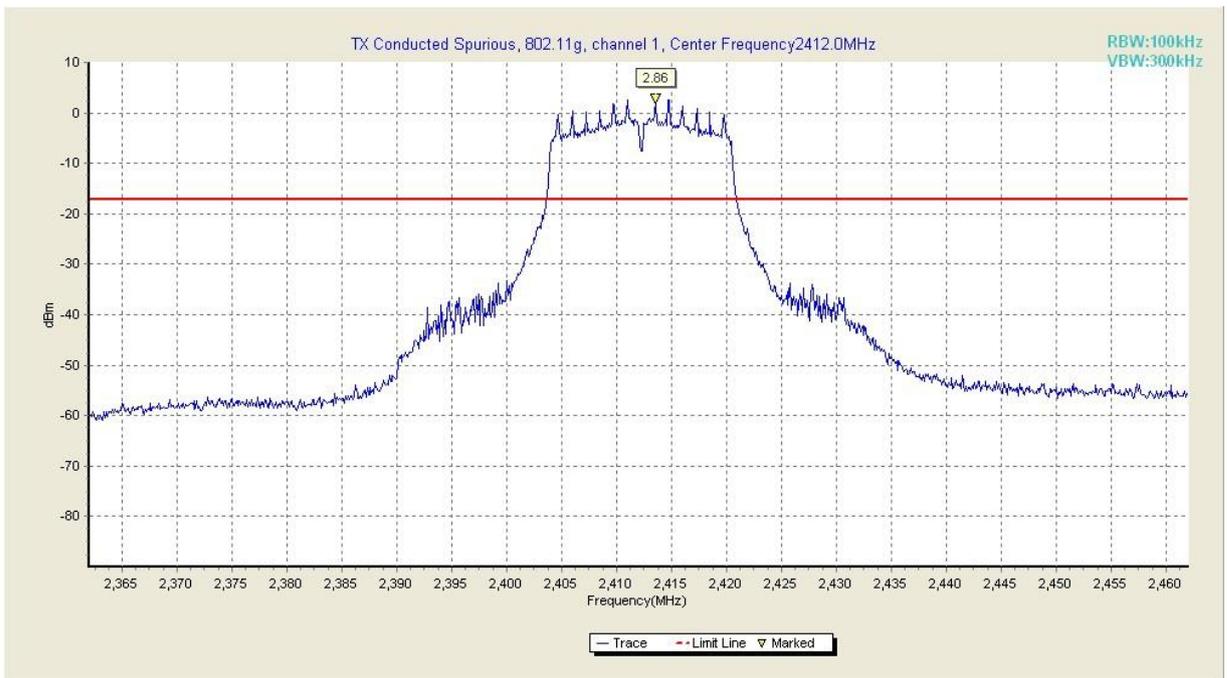


Fig. 23 Conducted Spurious Emission (802.11g, Ch1, Center Frequency)

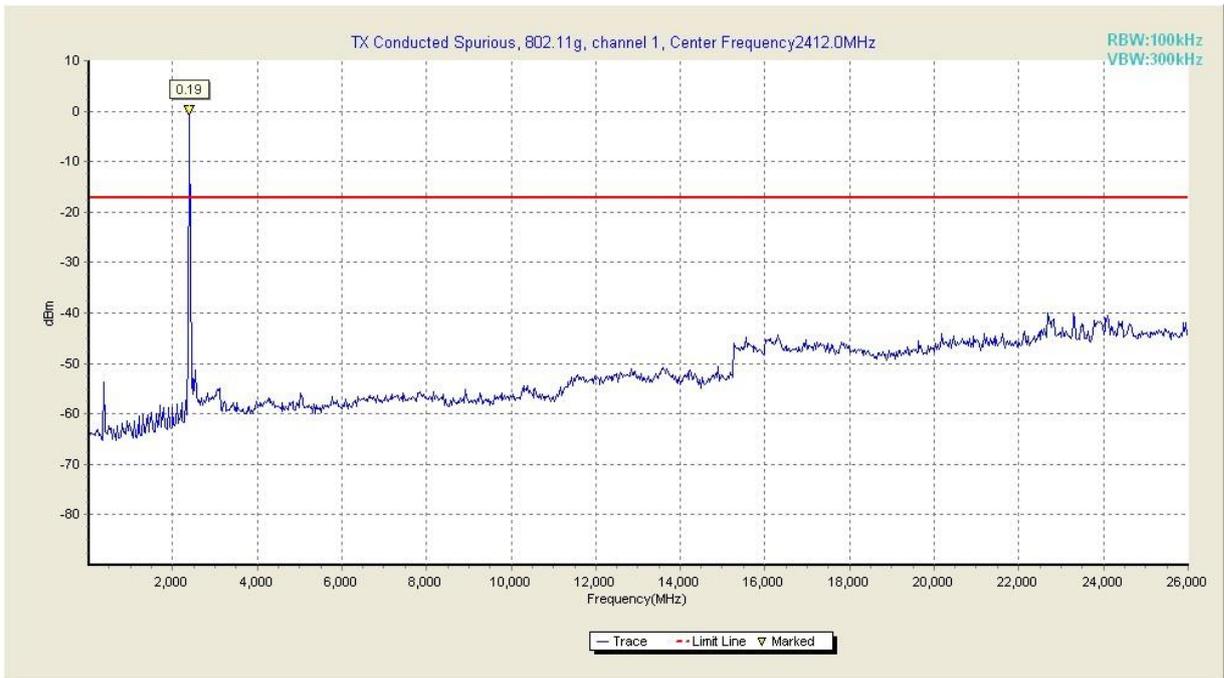


Fig. 24 Conducted Spurious Emission (802.11g, Ch1, 30 MHz-26 GHz)

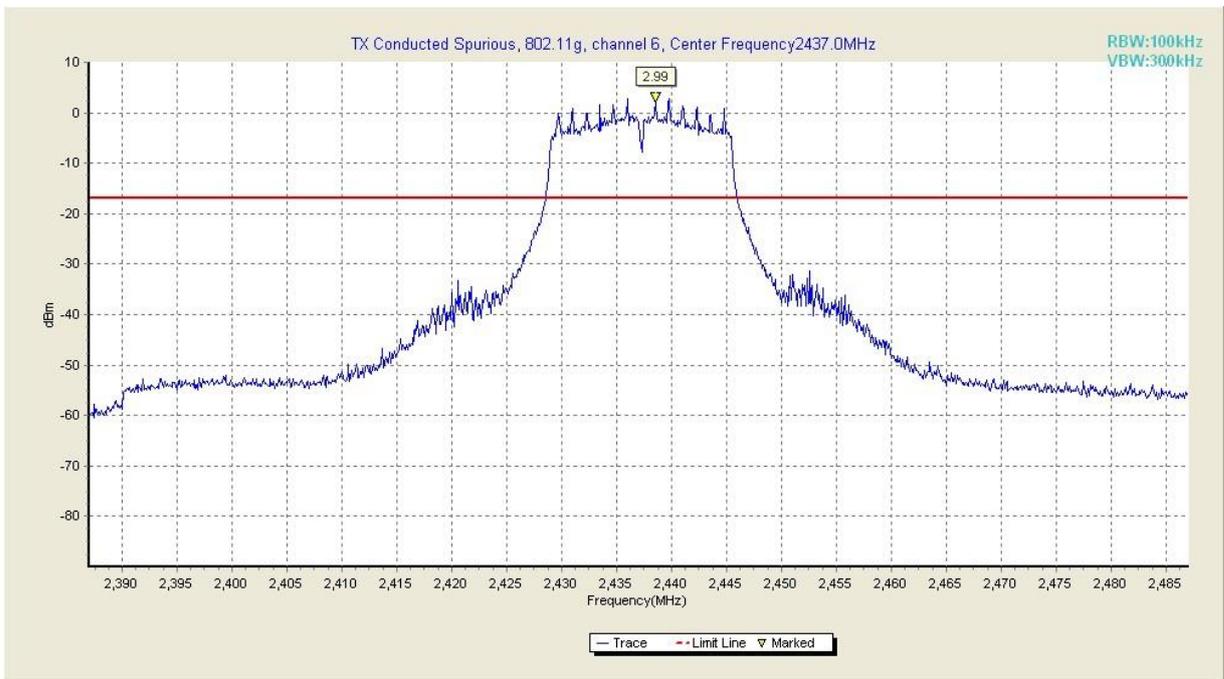


Fig. 25 Conducted Spurious Emission (802.11g, Ch6, Center Frequency)

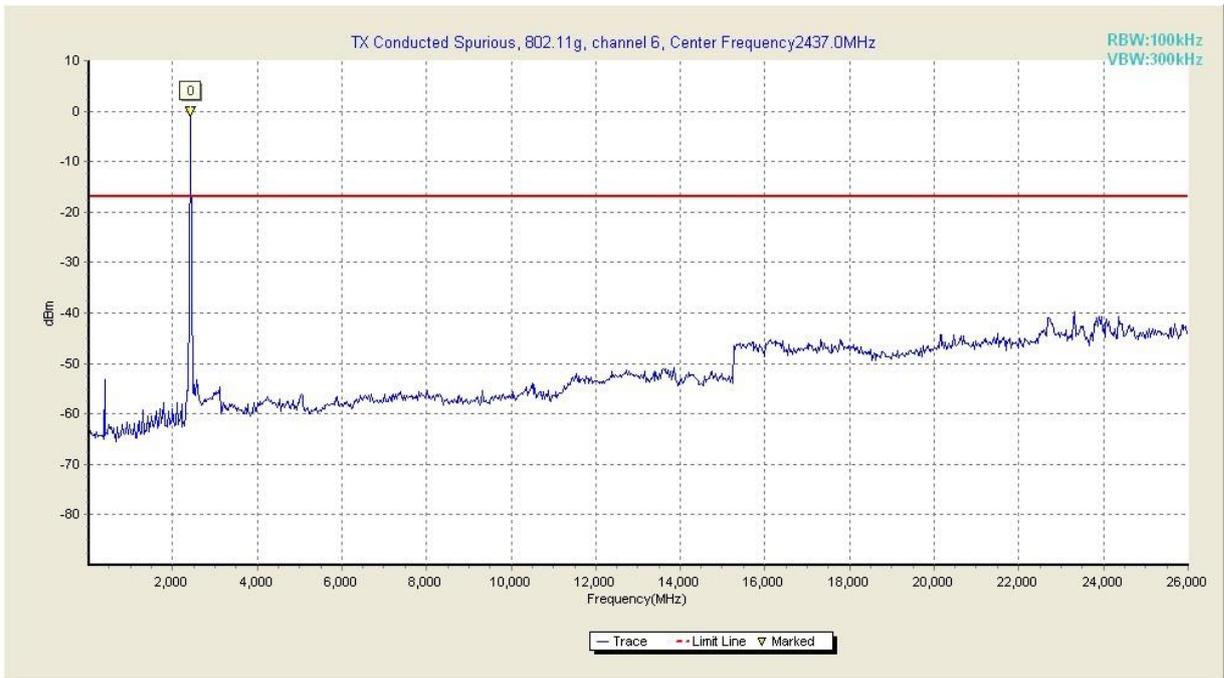


Fig. 26 Conducted Spurious Emission (802.11g, Ch6, 30 MHz-26 GHz)

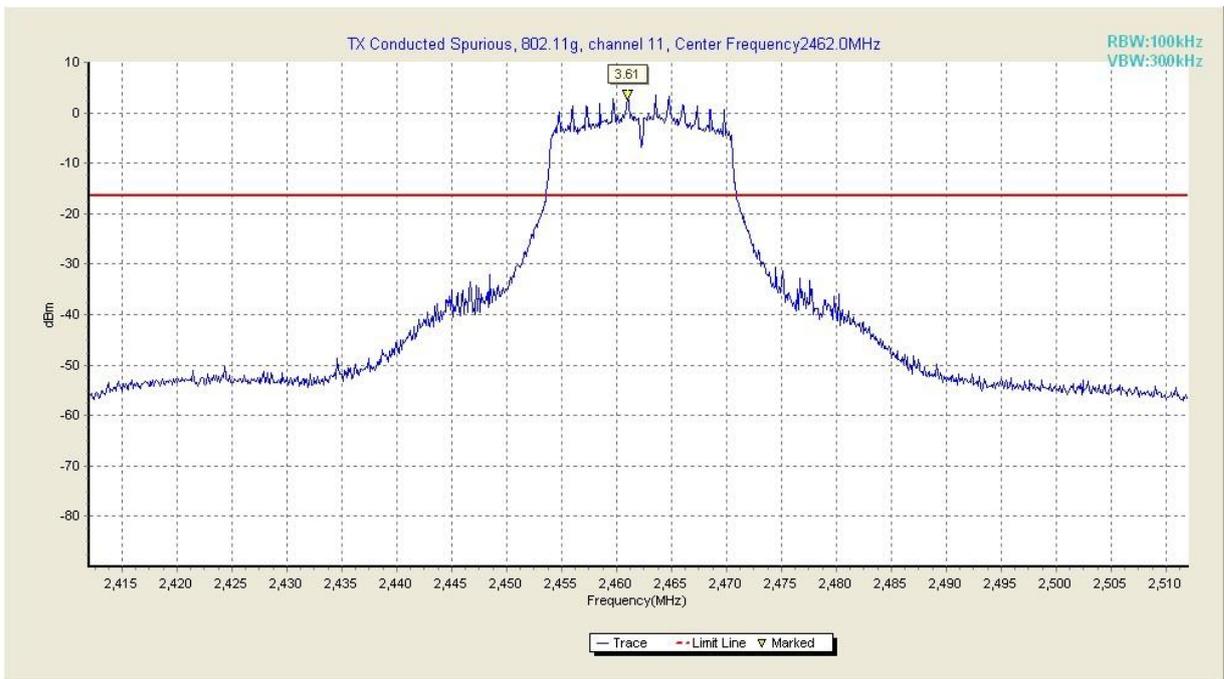


Fig. 27 Conducted Spurious Emission (802.11g, Ch11, Center Frequency)

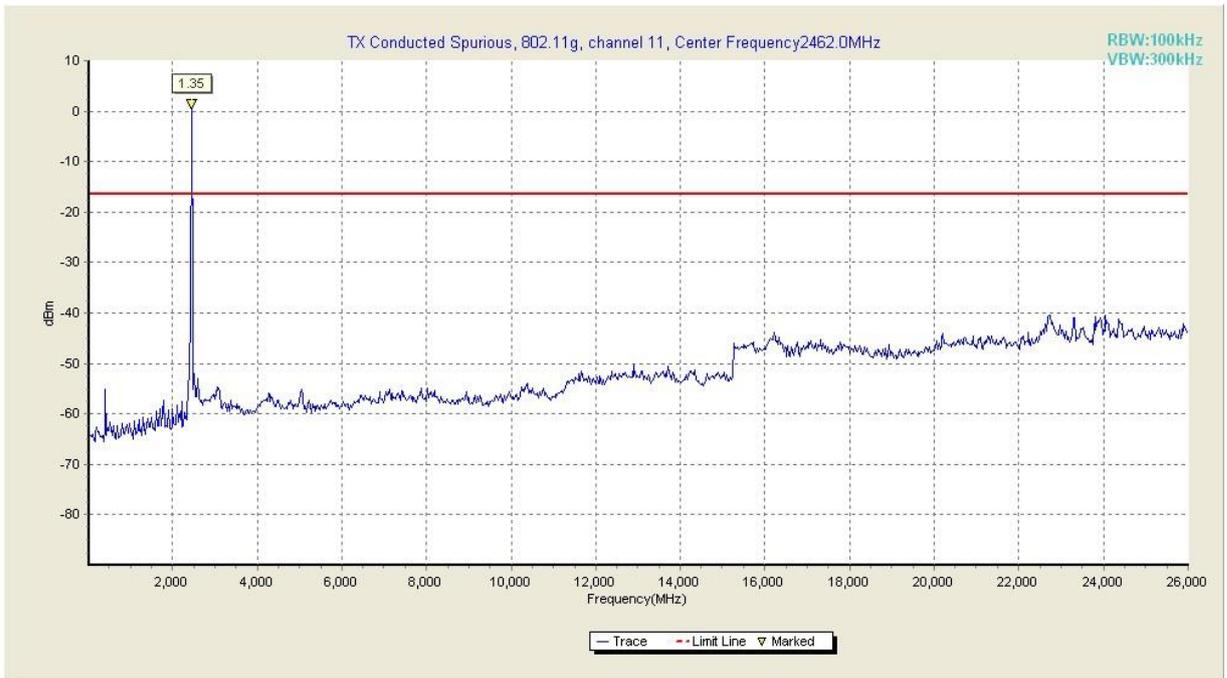


Fig. 28 Conducted Spurious Emission (802.11g, Ch11, 30 MHz-26 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209 RSS-210 A8.5	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

The measurement is made according to ANSI C63.4 and KDB558074.

Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

Measurement Results:

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.45GHz	Fig.29	P
	1	30 MHz ~1 GHz	Fig.30	P
		1 GHz ~ 4 GHz	Fig.31	P
		4 GHz ~ 18 GHz	Fig.32	P
	6	30 MHz ~1 GHz	Fig.33	P
		1 GHz ~ 4 GHz	Fig.34	P
		4 GHz ~ 18 GHz	Fig.35	P
	Power	2.45GHz ~2.5GHz	Fig.36	P
	11	30 MHz ~1 GHz	Fig.37	P
		1 GHz ~ 4 GHz	Fig.38	P
		4 GHz ~ 18 GHz	Fig.39	P
	802.11g	Power	2.38GHz ~2.45GHz	Fig.40
1		30 MHz ~1 GHz	Fig.41	P
		1 GHz ~ 4 GHz	Fig.42	P
		4 GHz ~ 18 GHz	Fig.43	P
6		30 MHz ~1 GHz	Fig.44	P
		1 GHz ~ 4 GHz	Fig.45	P
		4 GHz ~ 18 GHz	Fig.46	P
Power		2.45GHz ~2.5GHz	Fig.47	P
11		30 MHz ~1 GHz	Fig.48	P
		1 GHz ~ 4 GHz	Fig.49	P
		4 GHz ~ 18 GHz	Fig.50	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	Power	/	/	/
	1	/	/	/
		/	/	/
		/	/	/
	6	/	/	/
		/	/	/
		/	/	/
	Power	/	/	/
	11	/	/	/
		/	/	/
		/	/	/
	802.11n (40MHz)	Power	/	/
1		/	/	/
		/	/	/

		/	/	/
	6	/	/	/
		/	/	/
		/	/	/
		/	/	/
	Power	/	/	/
	11	/	/	/
		/	/	/
		/	/	/
/	All channels	18 GHz~ 26.5 GHz	Fig.51	P

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Gain}$$

802.11b

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
2429.453	40.12	-19.2	33.4	26.19	VERTICAL
2413.319	40.97	-18.9	33.4	26.39	VERTICAL
2402.411	40.25	-19.1	33.4	26.65	HORIZONTAL
3707.582	40.13	-19.1	33.4	26.58	HORIZONTAL
3711.319	40.12	-18.9	33.4	26.42	VERTICAL
3702.932	40.51	-19.1	33.4	26.31	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
3705.411	40.75	-19.1	33.4	26.45	HORIZONTAL
3703.427	40.74	-18.9	33.4	26.24	HORIZONTAL
3698.399	40.63	-19.2	33.4	26.53	HORIZONTAL
3697.395	40.71	-19.2	33.4	26.51	HORIZONTAL
3711.403	40.81	-19.1	33.4	26.41	VERTICAL
3713.407	40.39	-19.1	33.4	26.39	HORIZONTAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
3763.421	40.54	-18.9	33.4	26.24	VERTICAL
3619.397	40.83	-19.2	33.4	26.53	VERTICAL
3721.483	40.2	-19.1	33.4	26.41	HORIZONTAL
3739.479	40.7	-19.1	33.4	26.4	VERTICAL
3783.447	40.69	-19.1	33.4	26.39	HORIZONTAL
3715.423	40.68	-18.9	33.4	26.18	VERTICAL

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
2391.702	47.01	-18.7	27.5	44.96	HORIZONTAL
2389.634	42.61	-18.8	27.5	44.23	HORIZONTAL
2432.168	41.38	-19	33.4	37.51	HORIZONTAL
3712.425	41.85	-18.9	33.4	37.13	VERTICAL
3700.423	41.04	-18.9	33.4	37	VERTICAL
3693.211	41.32	-18.9	31.2	39.16	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
3711.403	41.42	-18.8	27.5	44.54	VERTICAL
3705.611	41.37	-18.7	27.5	43.22	HORIZONTAL
3713.427	41.25	-19.1	33.4	37.52	VERTICAL
3715.931	41.33	-18.8	27.5	43.04	HORIZONTAL
3703.407	41.12	-19	33.4	37.31	HORIZONTAL
3709.419	41.32	-19.2	33.4	37.46	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
3713.225	40.72	-19.1	33.4	26.47	VERTICAL
3715.411	40.24	-18.9	33.4	26.24	VERTICAL
3669.399	40.73	-19.2	33.4	26.53	HORIZONTAL
3717.755	40.83	-19.1	33.4	26.43	VERTICAL
3725.641	40.72	-18.9	33.4	26.22	VERTICAL
3715.404	40.70	-19.1	33.4	26.41	VERTICAL

802.11n

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Gain	P _{Mea} (dBuV/m)	Polarization
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/

Test graphs as below:

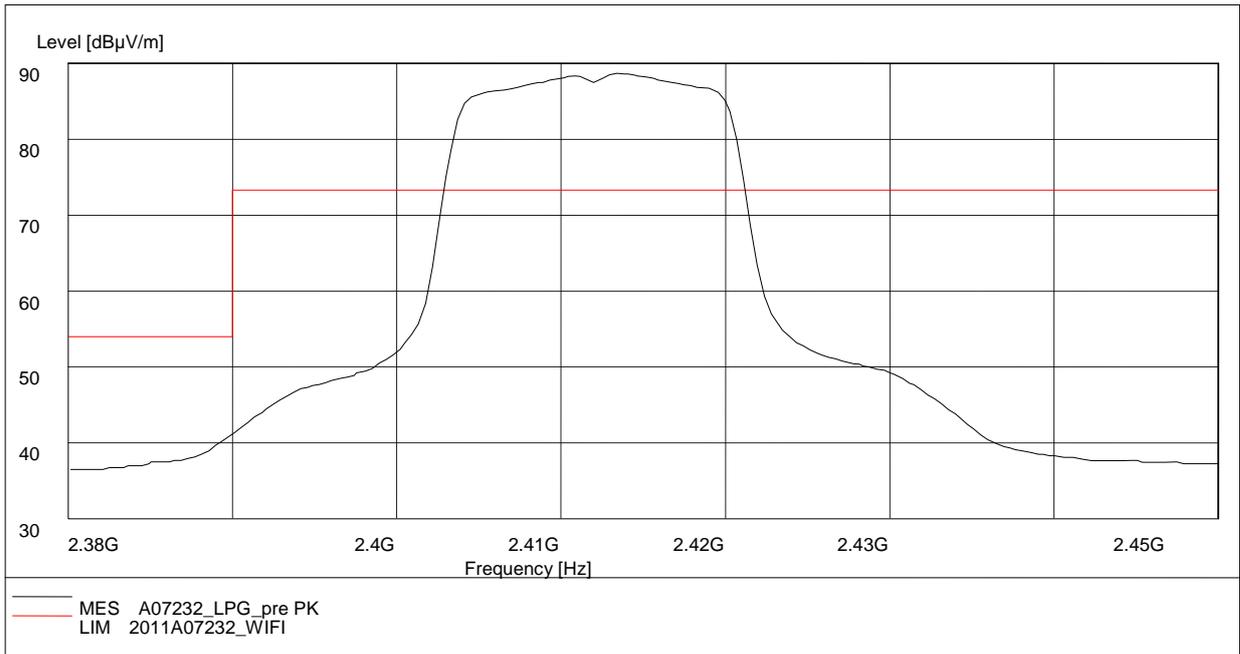


Fig. 29 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz - 245GHz

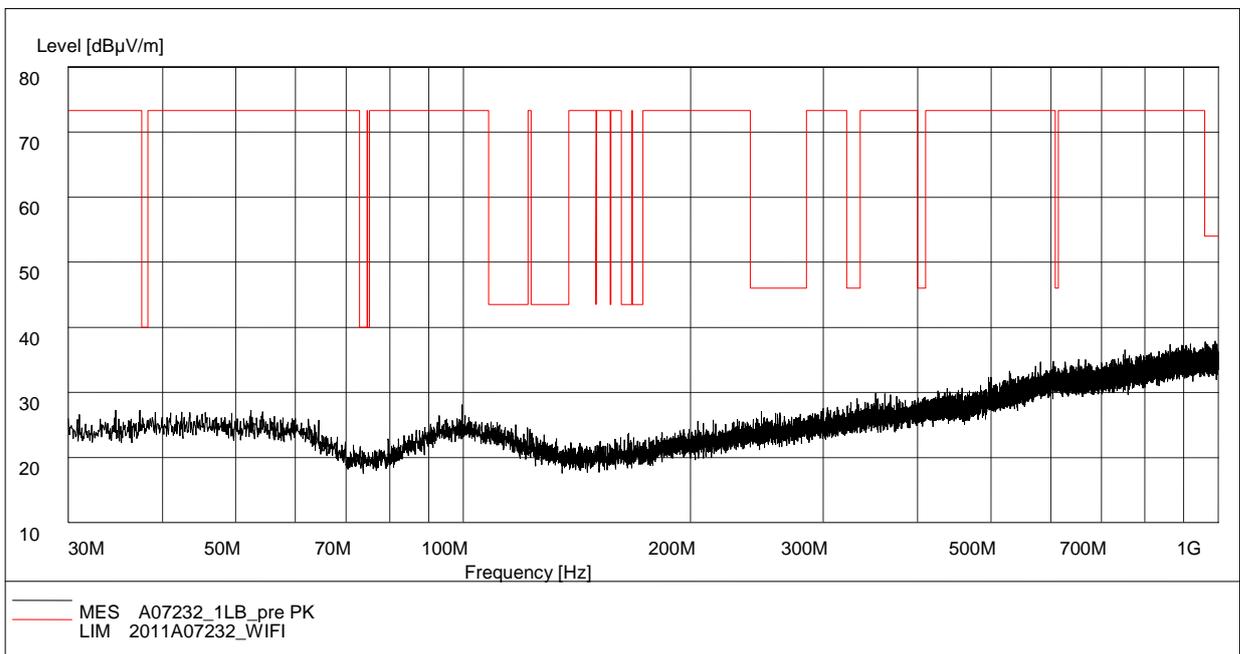


Fig. 30 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)

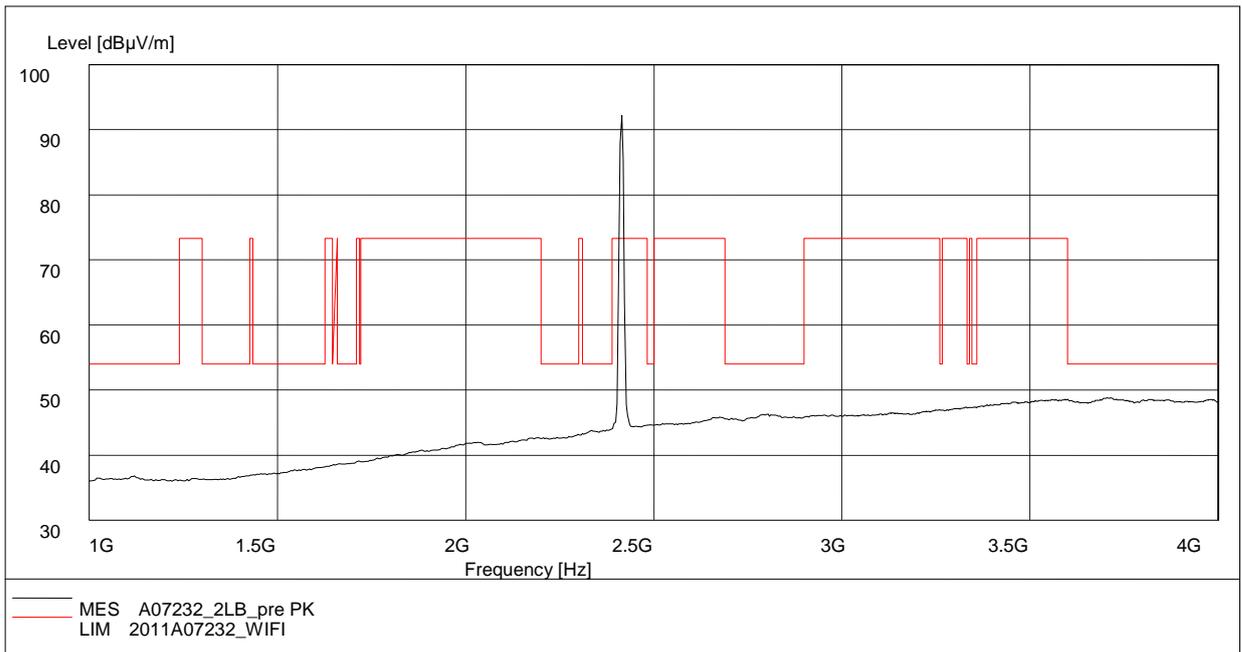


Fig. 31 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-4 GHz)

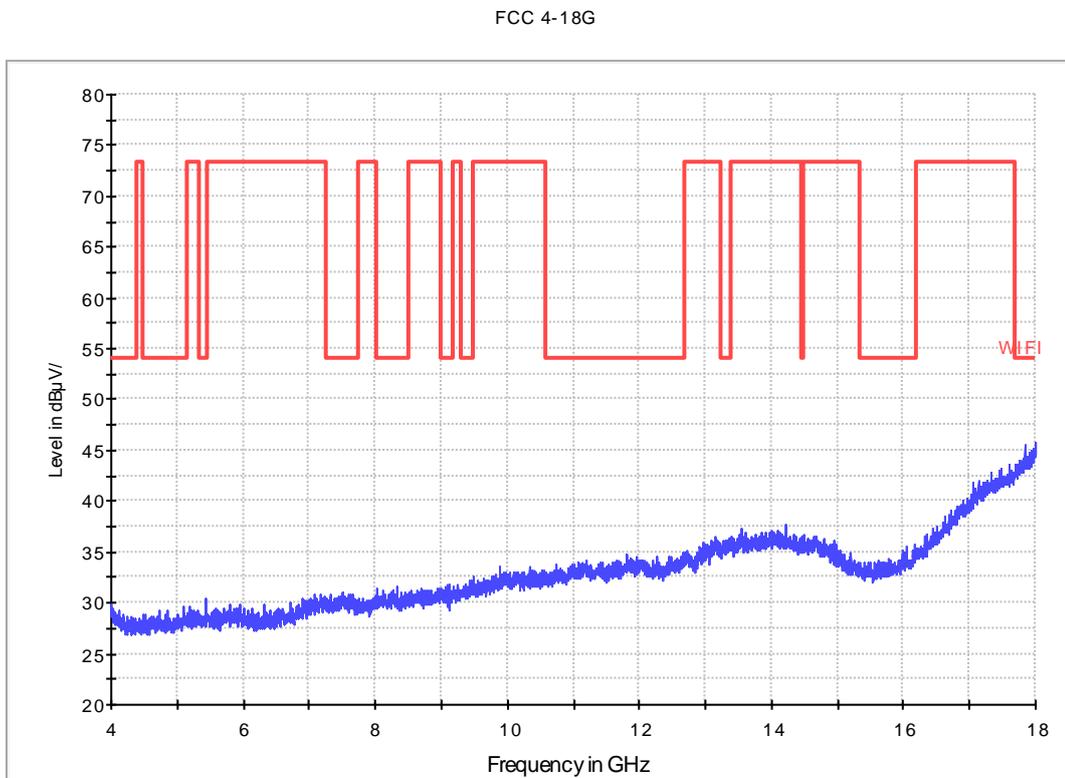


Fig. 32 Radiated Spurious Emission (802.11b, Ch1, 4 GHz-18 GHz)

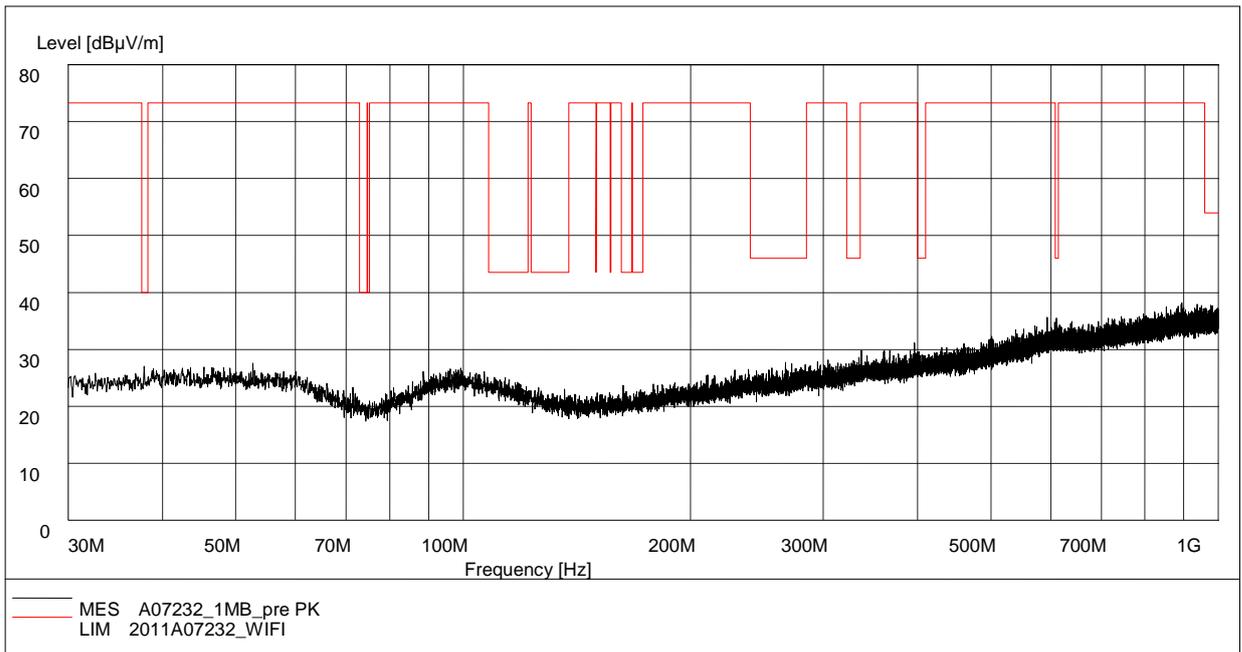


Fig. 33 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

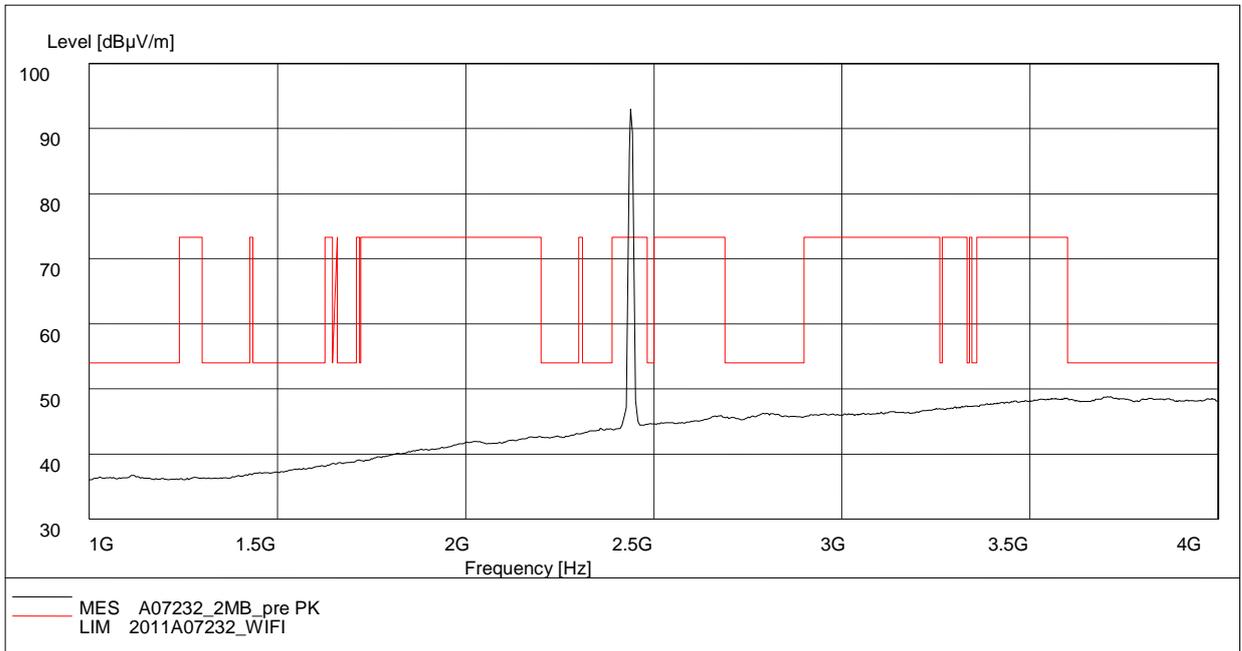


Fig. 34 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-4 GHz)

FCC 4-18G

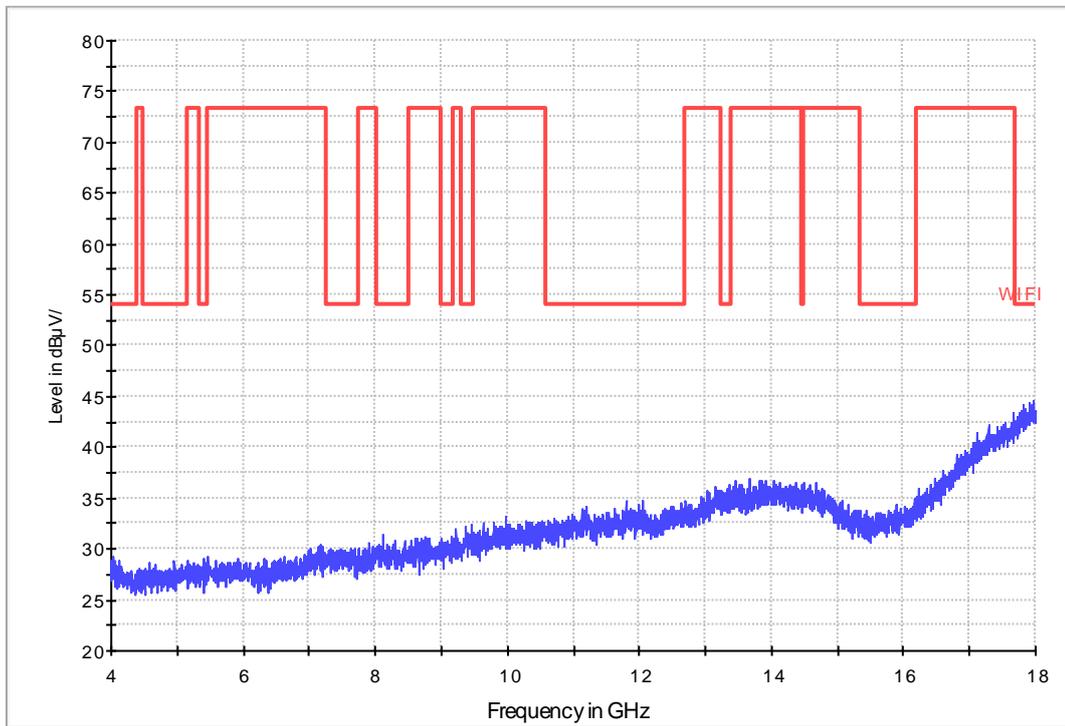


Fig. 35 Radiated Spurious Emission (802.11b, Ch6, 4 GHz-18 GHz)

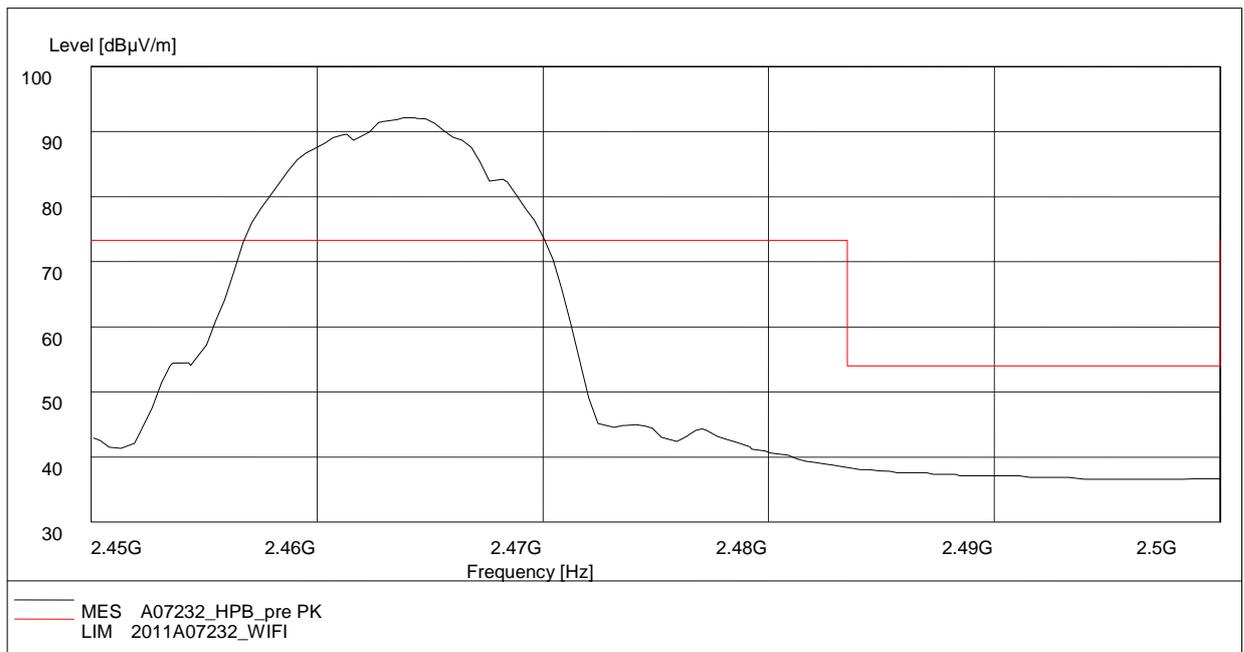


Fig. 36 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

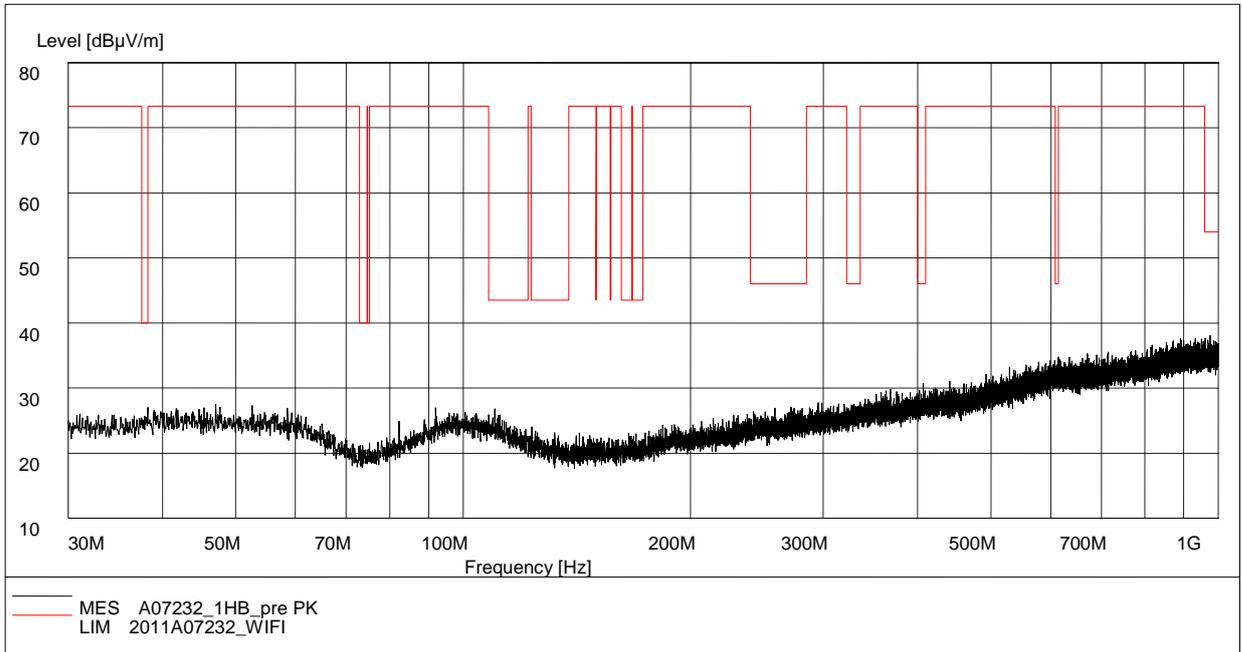


Fig. 37 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)

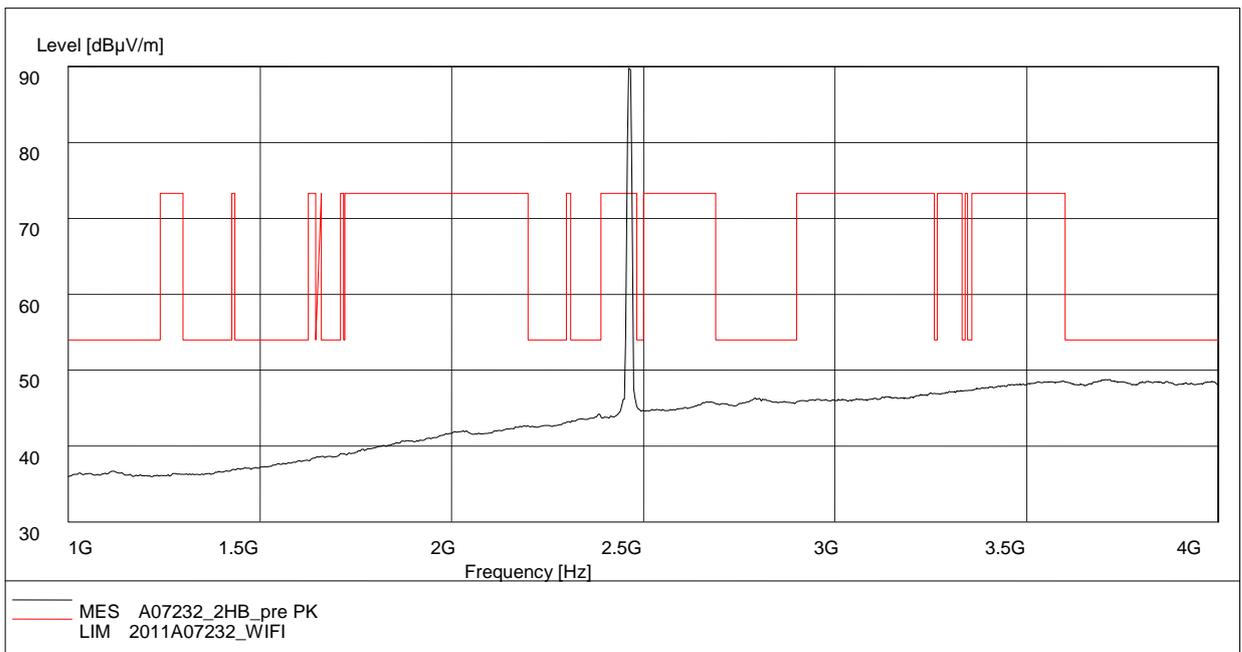


Fig. 38 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-4 GHz)

FCC 4-18G

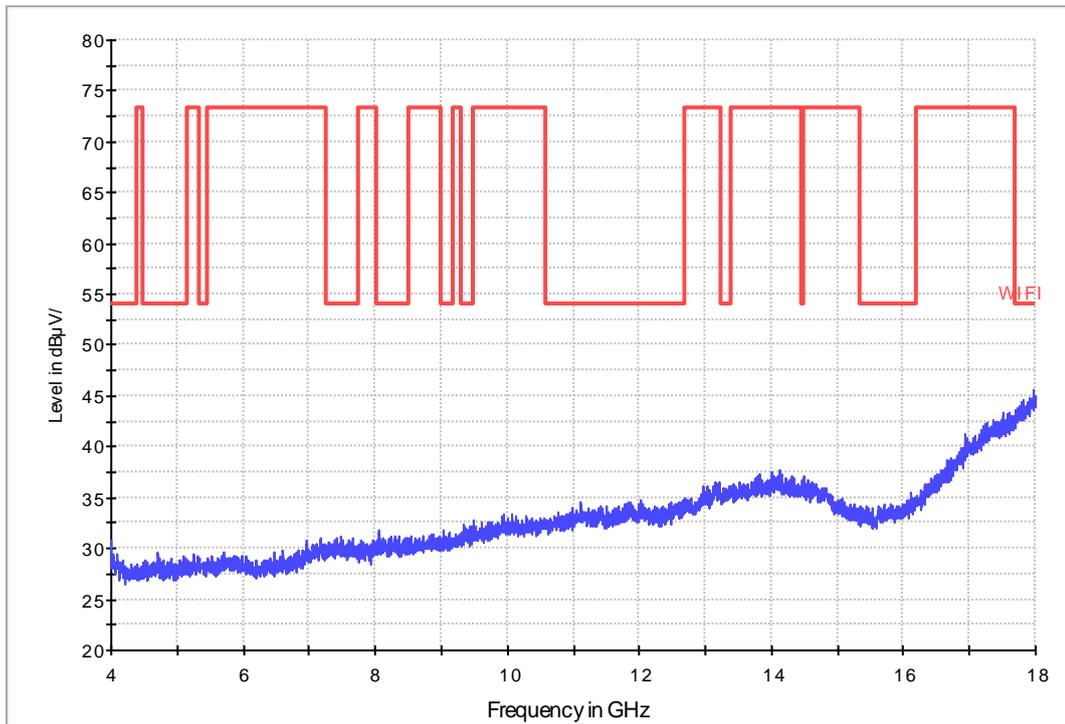


Fig. 39 Radiated Spurious Emission (802.11b, Ch11, 4 GHz-18 GHz)

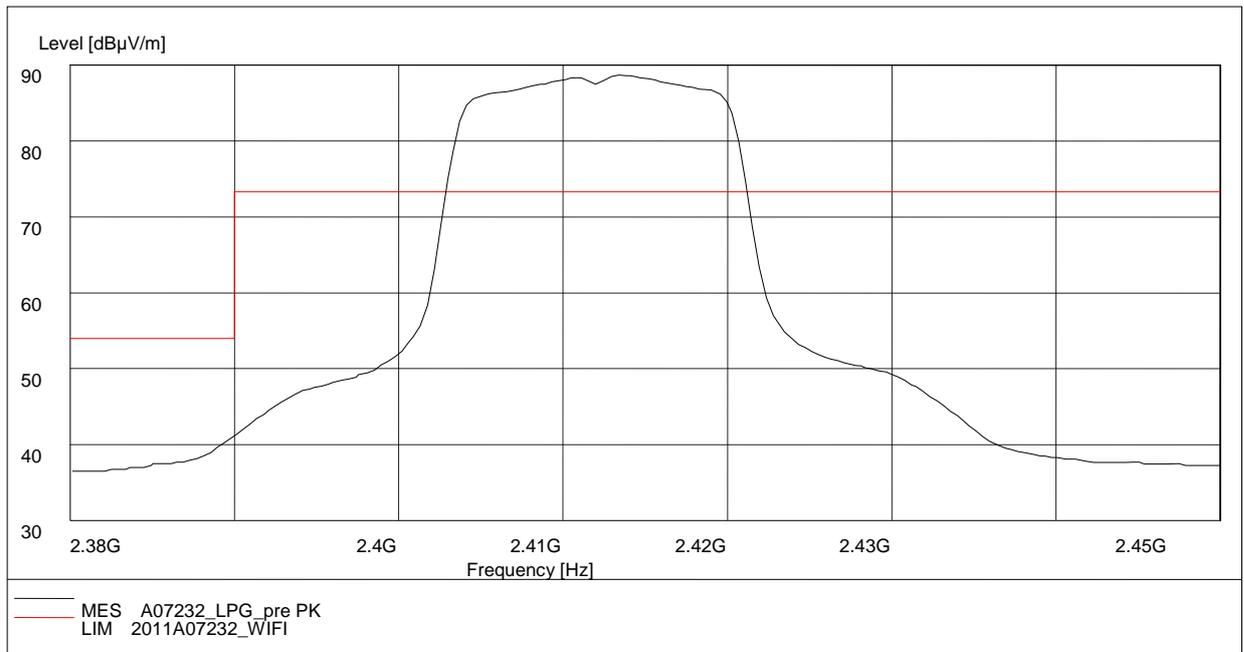


Fig. 40 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

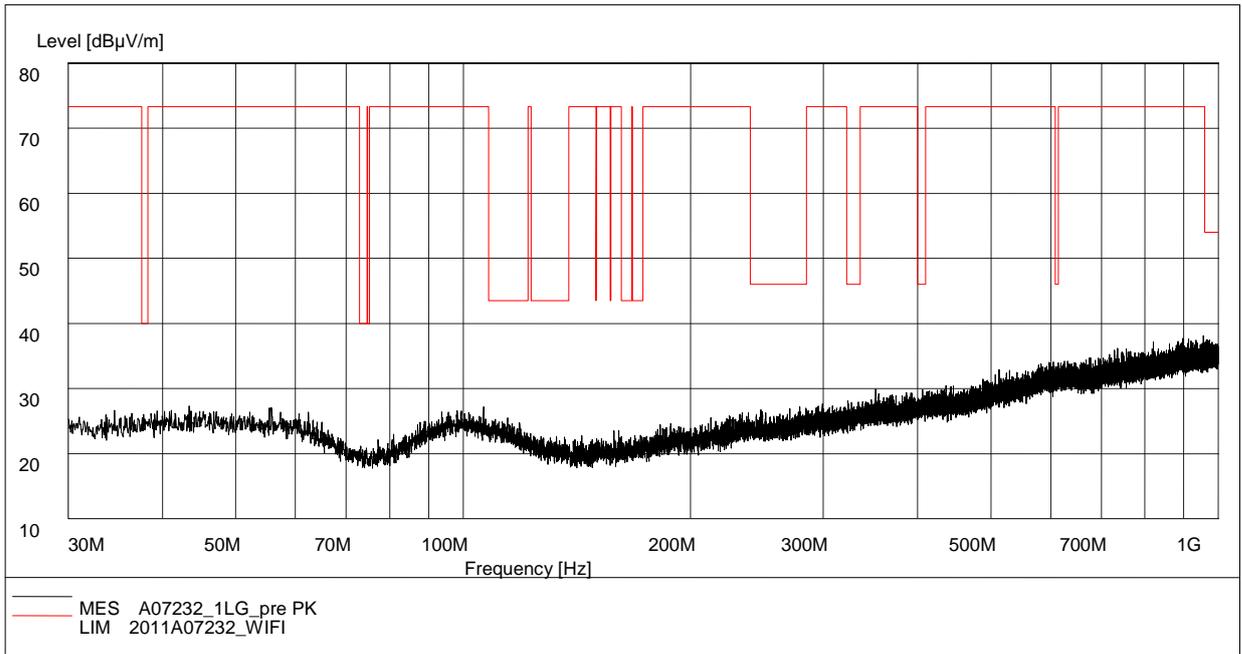


Fig. 41 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)

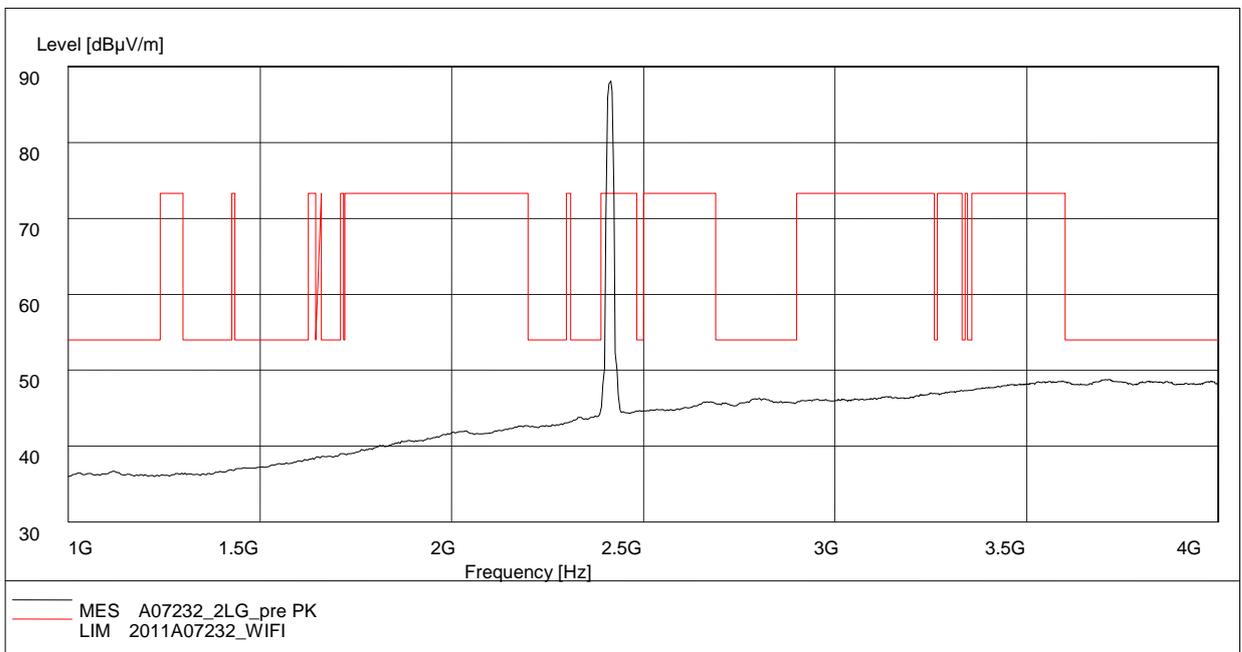


Fig. 42 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-4 GHz)

FCC 4-18G

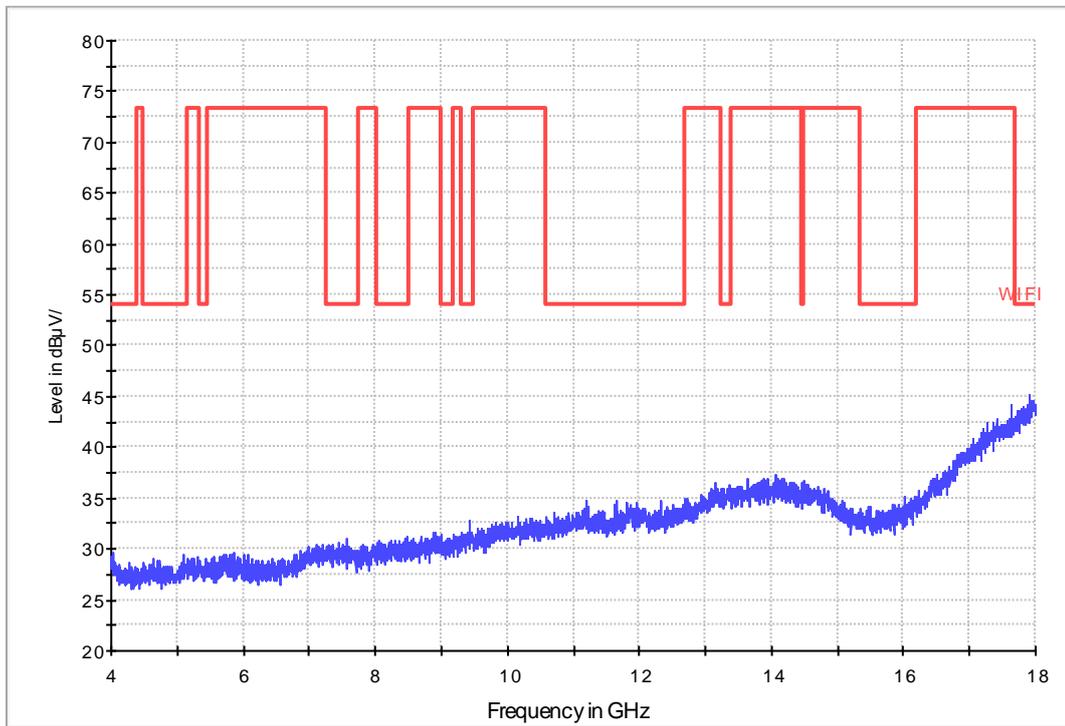


Fig. 43 Radiated Spurious Emission (802.11g, Ch1, 4 GHz-18 GHz)

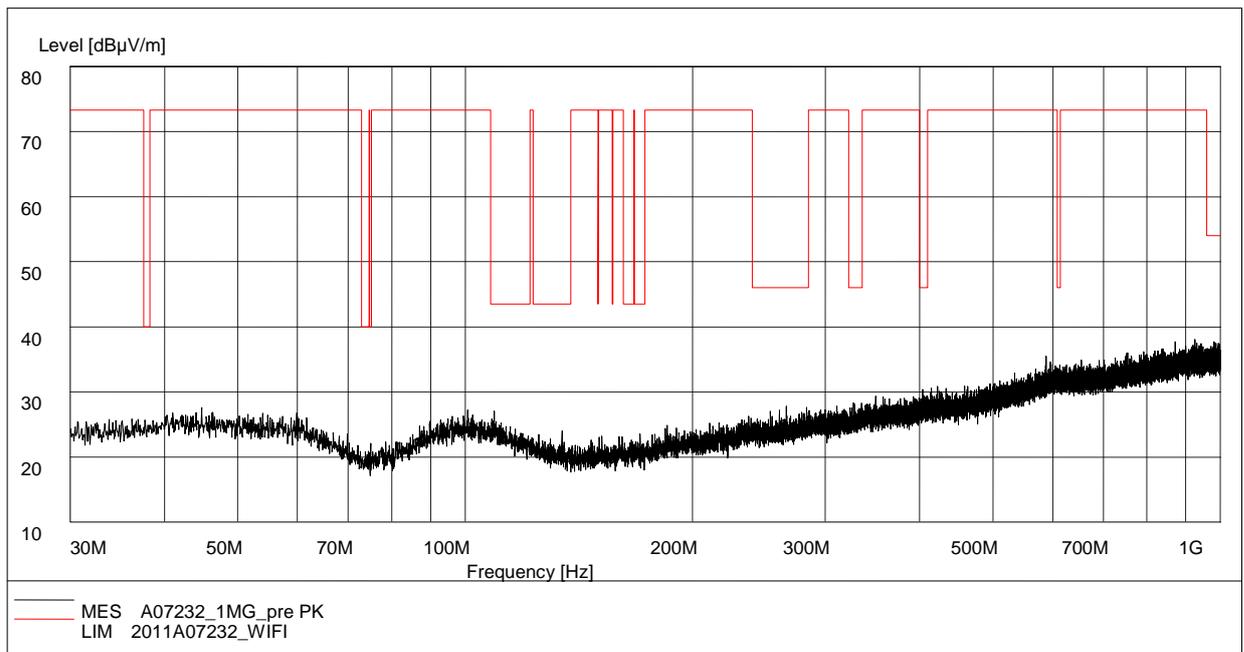


Fig. 44 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

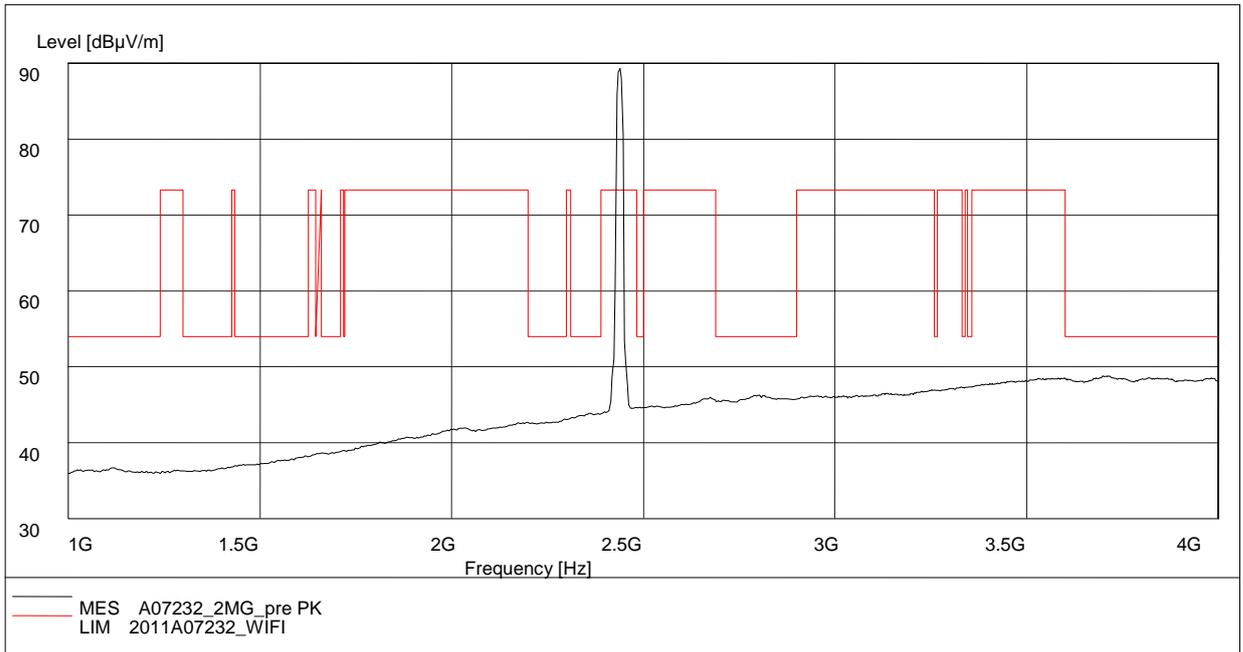


Fig. 45 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-4 GHz)

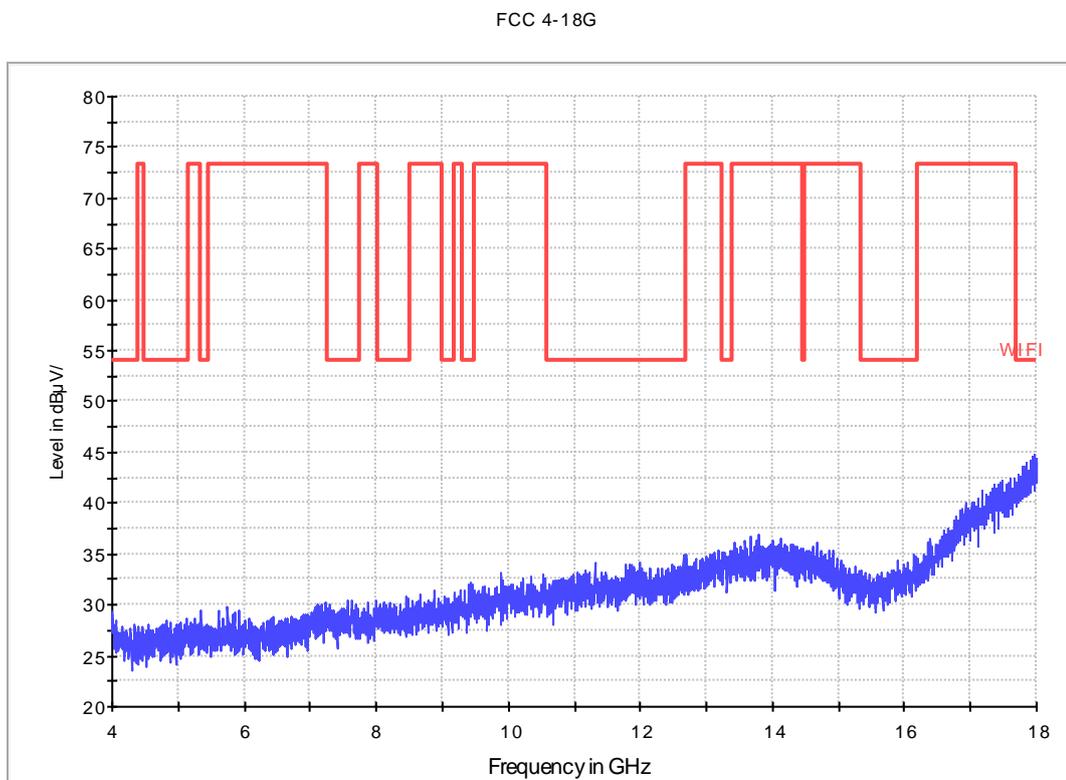


Fig. 46 Radiated Spurious Emission (802.11g, Ch6, 4 GHz-18 GHz)

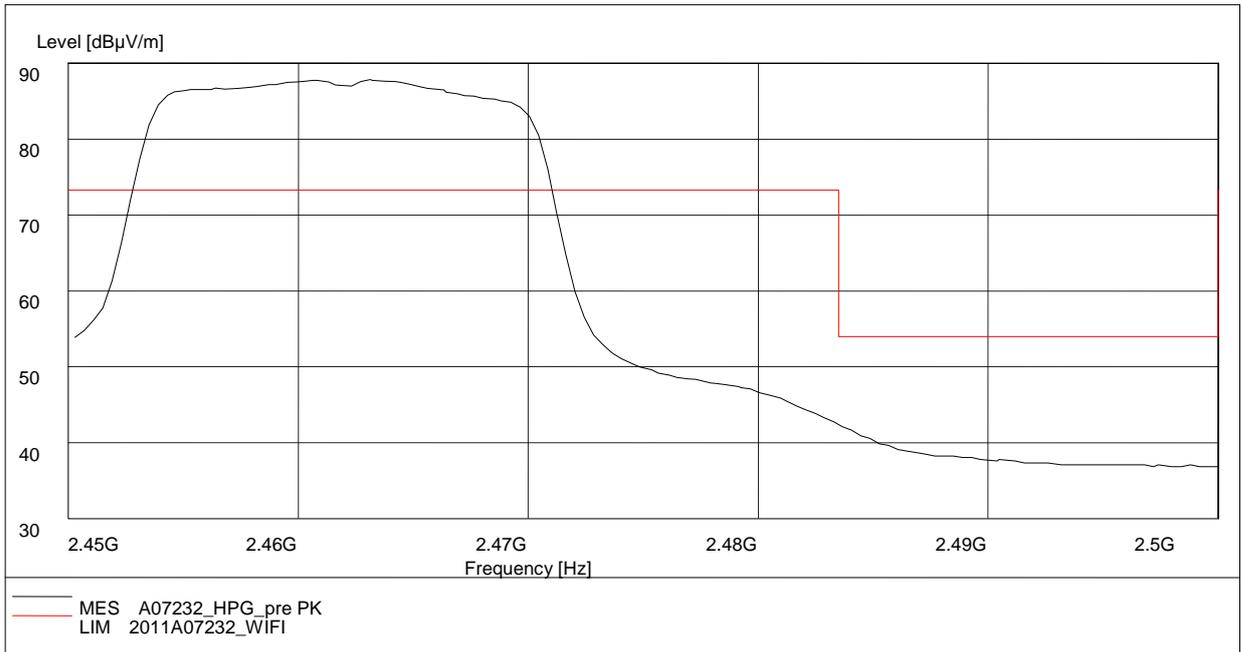


Fig. 47 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

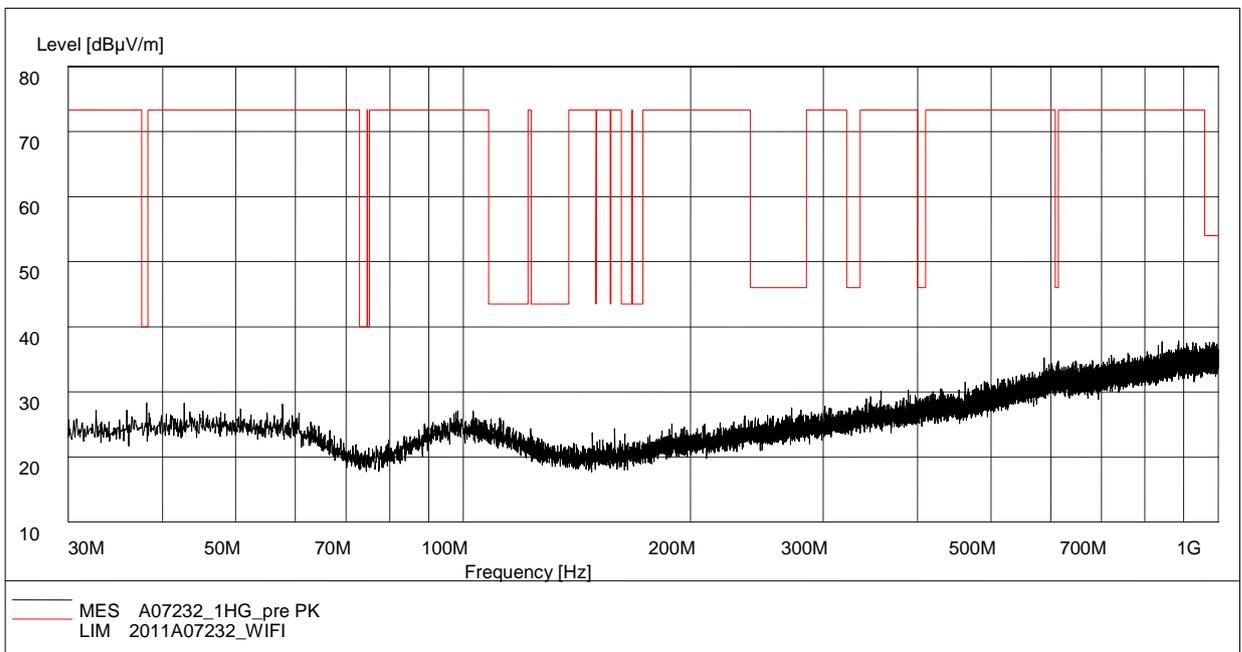


Fig. 48 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)

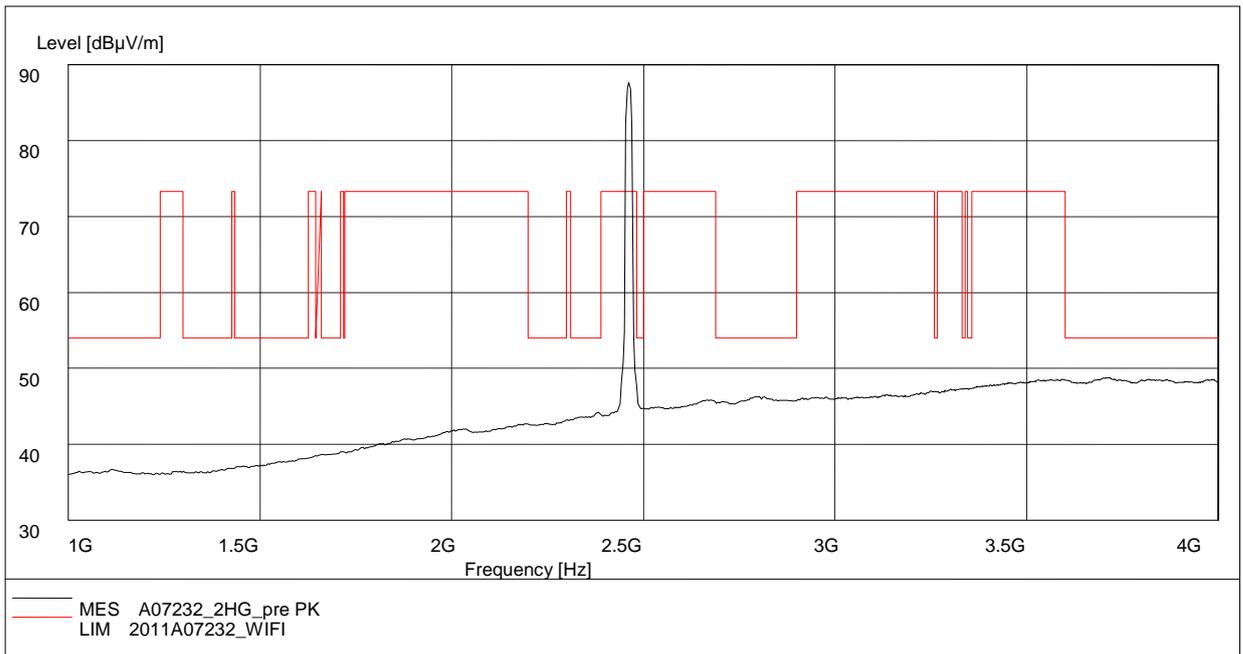


Fig. 49 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-4 GHz)

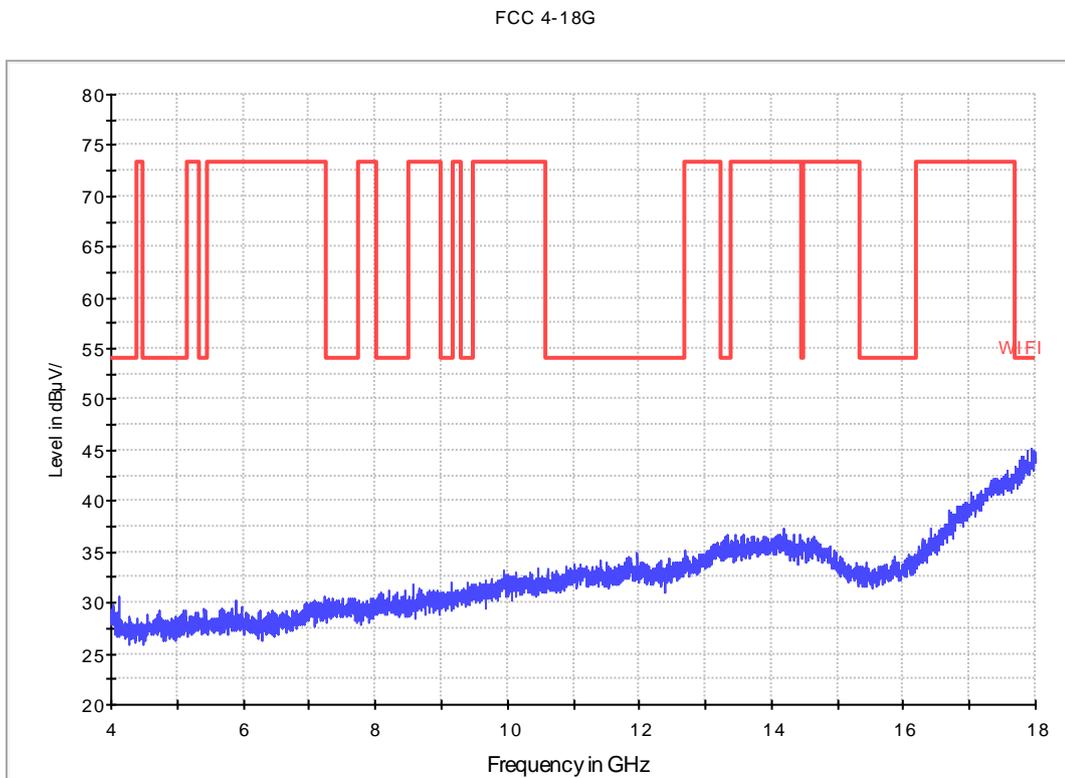


Fig. 50 Radiated Spurious Emission (802.11g, Ch11, 4 GHz-18 GHz)

FCC 18-26.5G

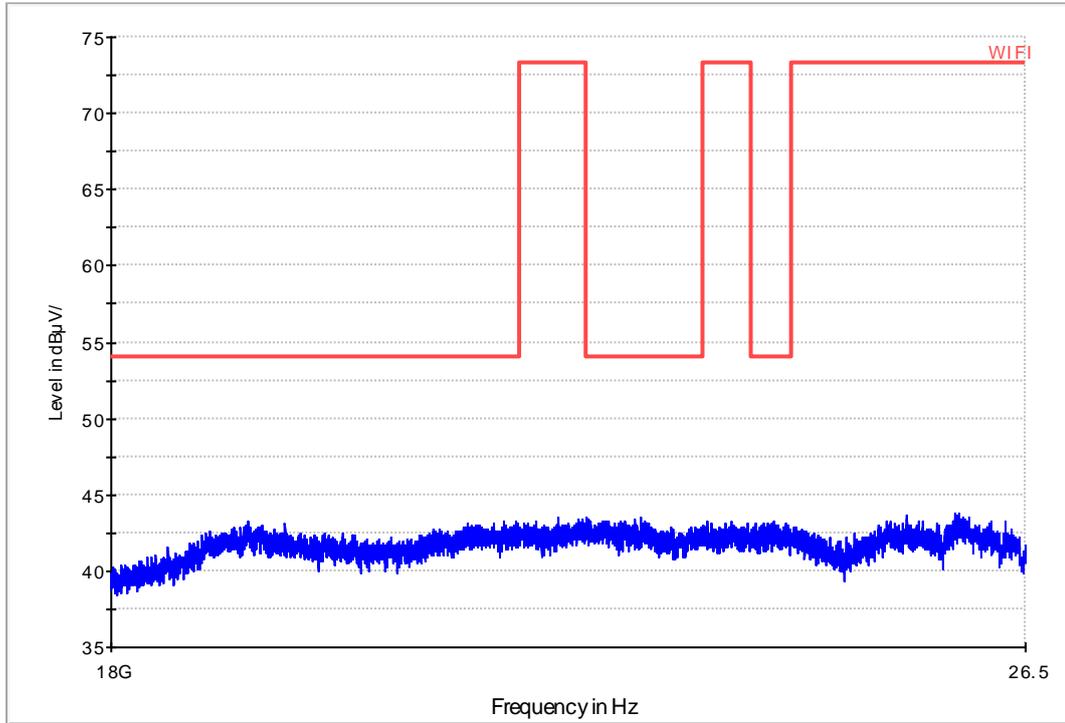


Fig. 51 Radiated emission: 18 GHz - 26.5 GHz

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	802.11g	
0.15 to 0.5	66 to 56	Fig. 52	Fig.53	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	802.11g	
0.15 to 0.5	56 to 46	Fig.52	Fig.53	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.4 and KDB558074

Conclusion: PASS

Test graphs as below:

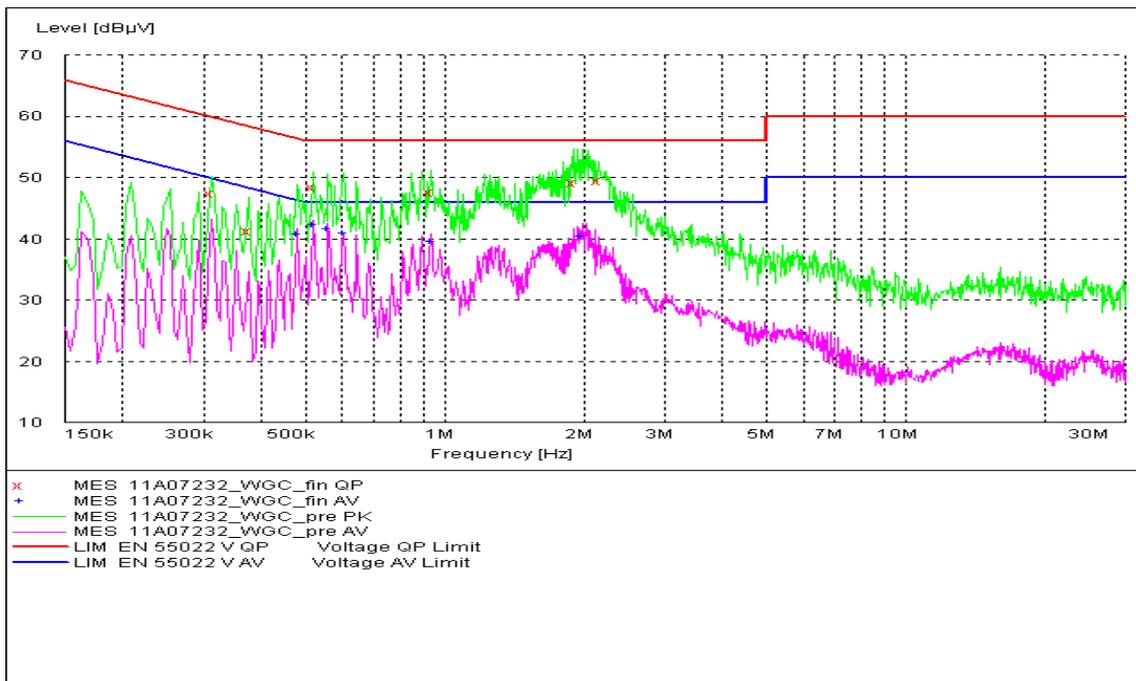


Fig. 52 AC Powerline Conducted Emission-802.11g

MEASUREMENT RESULT: "11A07232_WGC_fin QP"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.312	47.4	10.1	60	12.5	L1	GND
0.375	41.3	10.1	58	17.1	L1	GND
0.519	48.5	10.1	56	7.5	L1	GND
0.933	47.6	10.1	56	8.4	L1	GND
1.9005	49.2	10.1	56	6.8	L1	GND
2.155365	49.4	10.1	56	6.6	L1	GND

MEASUREMENT RESULT: "11A07232_WGC_fin AV"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.4785	40.7	10.1	46	5.7	L1	GND
0.519	42.3	10.1	46	3.7	L1	GND
0.5595	41.6	10.1	46	4.4	L1	GND
0.6045	41	10.1	46	5	L1	GND
0.933	39.6	10.1	46	6.4	L1	GND
1.9815	40.5	10.1	46	5.5	L1	GND

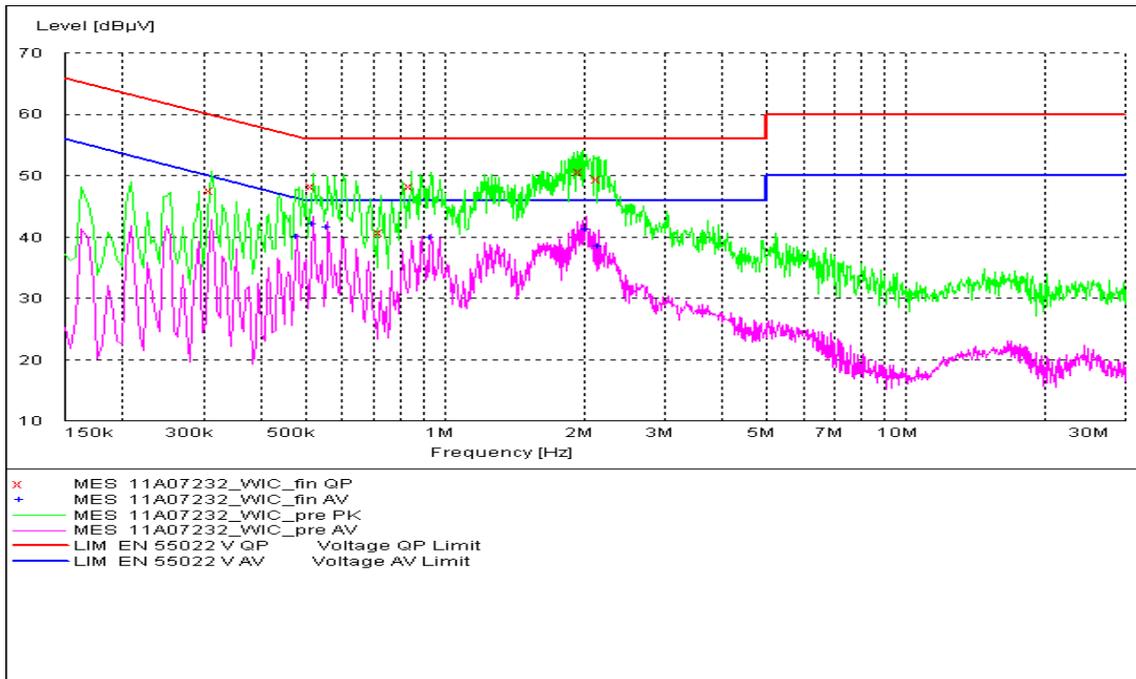


Fig. 53 AC Powerline Conducted Emission-Idle

MEASUREMENT RESULT: "11A07232_WIC_fin QP"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.312	47.5	10.1	60	12.4	L1	GND
0.519	48.3	10.1	56	7.7	L1	GND
0.7305	40.7	10.1	56	15.3	L1	GND
0.8475	48.3	10.1	56	7.7	L1	GND
1.986	50.6	10.1	56	5.4	L1	GND
2.155365	49.4	10.1	56	6.6	L1	GND

MEASUREMENT RESULT: "11A07232_WIC_fin AV"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.4785	40.1	10.1	46	6.2	L1	GND
0.519	42.1	10.1	46	3.9	L1	GND
0.5595	41.7	10.1	46	4.3	L1	GND
0.933	39.9	10.1	46	6.1	L1	GND
2.03015	41.3	10.1	46	4.7	L1	GND
2.155365	38.6	10.1	46	7.4	L1	GND

*** END OF REPORT BODY ***