



**FCC PART 15C
TEST REPORT
No. 2013WLN0799**

for

TCT Mobile Limited

HSDPA/HSUPA/UMTS Tri bands / GSM quad bands/LTE Bi bands

mobile phone

Model name: A851L

Marketing Name: A851L

With

FCC ID: RAD361

Hardware Version: 05

Software Version: VAC6

Issued Date: 2013-11-05



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

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
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Postal Code: 100191
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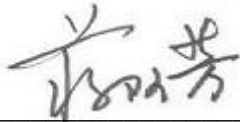
1.2. Project Data

Testing Start Date: 2013-06-20
Testing End Date: 2013-07-04

1.3. Signature



Xu Zhongfei
(Prepared this test report)



Jiang Afang
(Reviewed this test report)



Xiao Li
Deputy Director of the laboratory
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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	HSDPA/HSUPA/UMTS Tri bands / GSM quad bands/LTE Bi bands mobile phone
Model name	A851L
Marketing name	A851L
FCC ID	RAD361
IC ID	/
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	22.85dBm(CCK)
GPRS Class	Class 10
GPRS operation mode	Class B
Power Supply	3.9V DC by Battery

3.2. Internal Identification of EUT Used During the Test

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	05	VAC6
EUT2	/	05	VAC6

*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	TLi022A2	/
AE2	Charger	CBA3000AG0C1	/

*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 HSDPA/HSUPA/UMTS Tri bands / GSM quad bands/LTE Bi bands 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.

Reference	Title	Version
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, 2012
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	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247	2012

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Fully-anechoic chamber.

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)	/	P
Peak Power Spectral Density	15.247 (d)	/	P
Occupied 6dB Bandwidth	15.247 (d)	/	P
Band Edges Compliance	15.247 (b)	/	P
Transmitter Spurious Emission - Conducted	15.247	/	P
Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

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

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.

This model is a variant product which market name is ONE TOUCH 7030Y; all the test result has been derived from test report of ONE TOUCH 7030Y.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.9V (By battery)
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2014-07-08
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2014-10-30
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2014-08-12
4	Shielding Room	S81	/	ETS•LingGern	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2014-08-11
2	BiLog Antenna	3142B	9908-1403	EMCO	2014-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2014-12-25
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2014-06-30
5	Semi-anechoic chamber	/	CT000332-1074	Frankonia German	/

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

Connect the EUT to the test system as Fig.A.1.1.1 shows.

Set the EUT to the required work mode.

Set the EUT to the required channel.

Set the Vector Signal Analyzer and start measurement.

Record the values. Vector Signal Analyzer

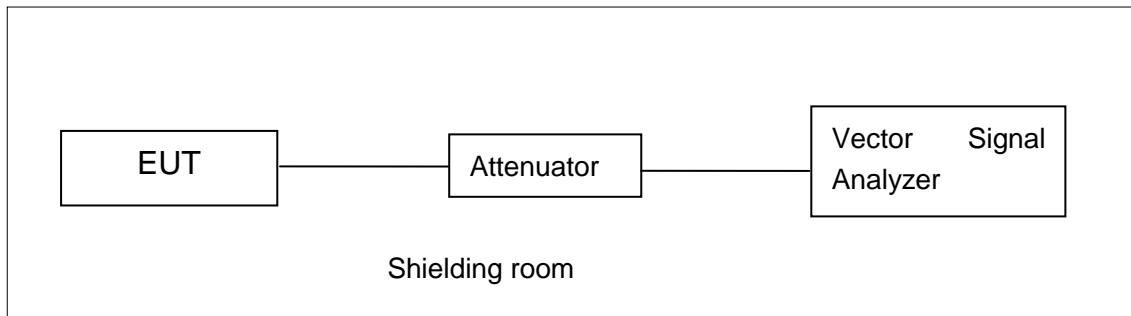


Fig.A.1.1.1: Test Setup Diagram for Conducted Measurements

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;

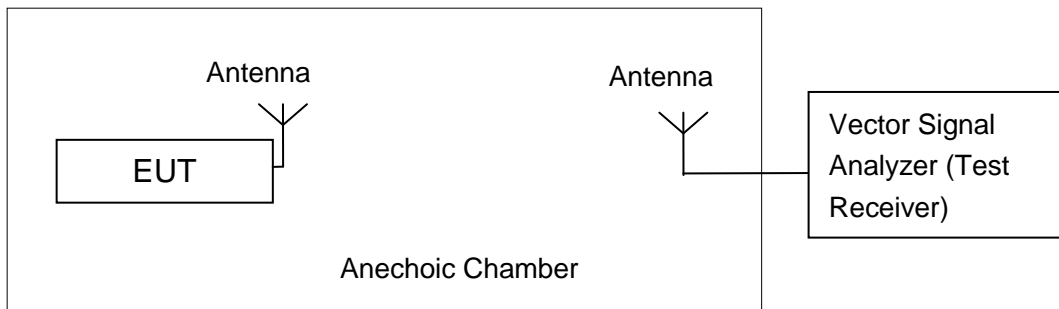


Fig.A.1.2.1: Test Setup Diagram for Radiated Measurements

A.2. Maximum Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

The measurement method SA-1 is made according to KDB558074.

EUT ID: EUT2

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	18.54	/	/
	2	18.74	/	/
	5.5	20.40	/	/
	11	21.83	21.73	22.85
802.11g	6	20.01	/	/
	9	20.04	/	/
	12	19.87	/	/
	18	19.91	/	/
	24	20.37	/	/
	36	20.33	/	/
	48	20.44	20.52	21.54
	54	20.40	/	/

The data rate 11Mbps and 48Mbps are selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	18.57	/	/
	MCS1	18.45	/	/
	MCS2	18.42	/	/
	MCS3	18.91	/	/
	MCS4	18.88	/	/
	MCS5	18.95	/	/
	MCS6	18.98	18.73	19.73
	MCS7	18.95	/	/

The data rate MCS6 is selected as worse condition, and the following cases are performed with this condition.

Conclusion: Pass

A.2.2. Maximum Average Output Power-conducted

802.11b/g mode

Mode	Test Result (dBm)		
	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	16.87	16.84	17.31
802.11g	13.74	13.42	13.44

802.11n-HT20 mode

Mode	Test Result (dBm)		
	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	10.39	9.98	10.46

Conclusion: Pass

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(d)	< 8 dBm/3 kHz

The measurement is made according to KDB558074.

Modulation type and data rate tested:

802.11b	802.11g	802.11n-HT20
11Mbps(CCK)	48Mbps(OFDM)	MCS6(OFDM)

Measurement Results:

802.11b/g mode

Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
		Fig.	Value	
802.11b	1	Fig.A.3.1	-7.03	P
	6	Fig.A.3.2	-7.76	P
	11	Fig.A.3.3	-7.35	P
802.11g	1	Fig.A.3.4	-13.58	P
	6	Fig.A.3.5	-13.99	P
	11	Fig.A.3.6	-12.94	P

802.11n-HT20 mode

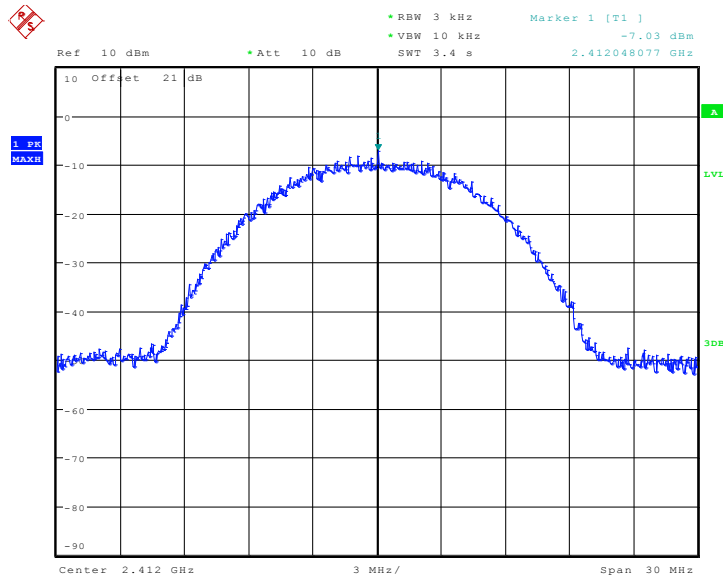
Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
		Fig.	Value	
802.11n (HT20)	1	Fig.A.3.7	-15.78	P
	6	Fig.A.3.8	-15.61	P
	11	Fig.A.3.9	-14.52	P

Conclusion: Pass

Measurement Uncertainty:

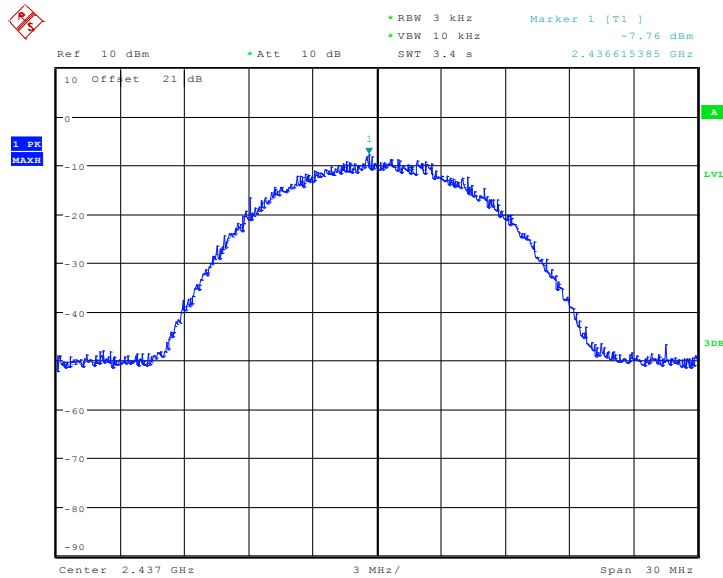
Measurement Uncertainty	0.75dB
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Test graphs as below:



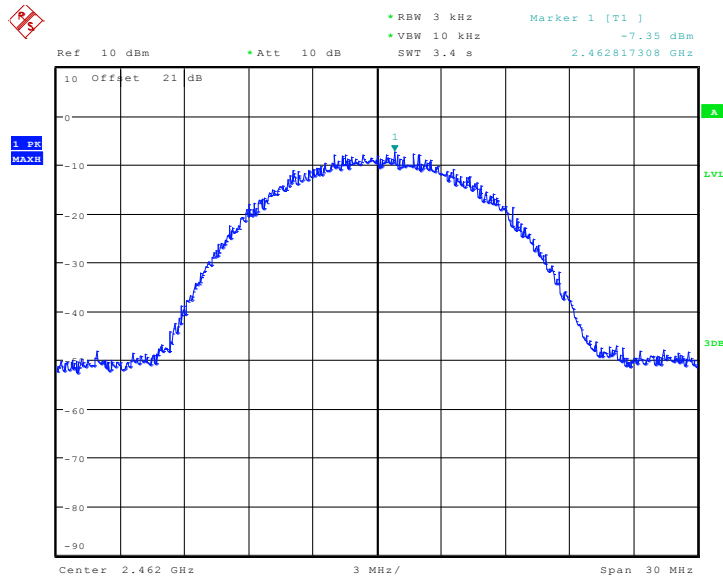
Date: 3.JUL.2013 14:48:37

Fig.A.3.1 Power Spectral Density (802.11b, Ch 1)



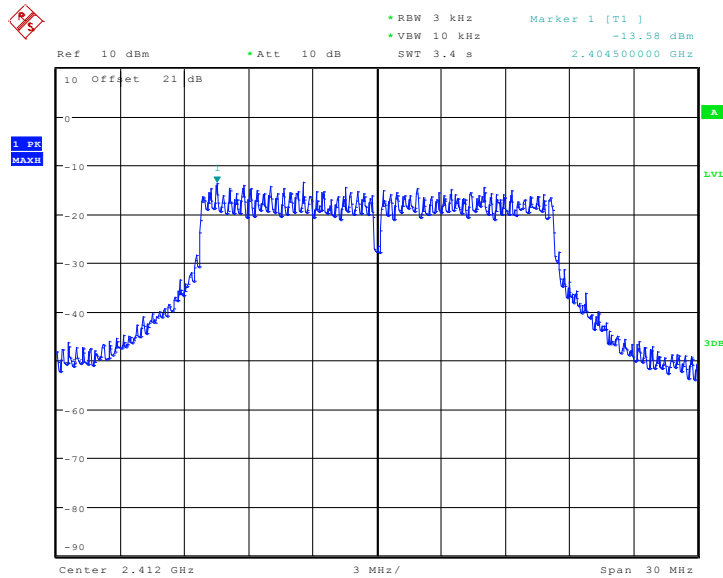
Date: 3.JUL.2013 14:47:15

Fig.A.3.2 Power Spectral Density (802.11b, Ch 6)



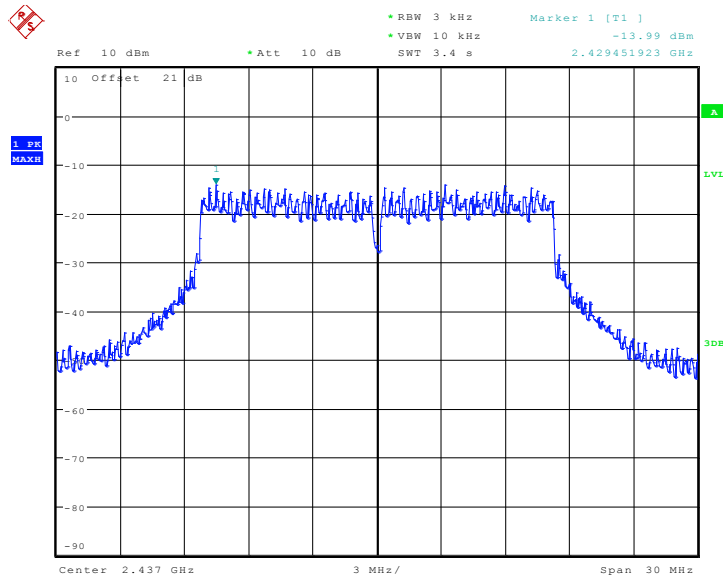
Date: 3.JUL.2013 14:50:03

Fig.A.3.3 Power Spectral Density (802.11b, Ch 11)



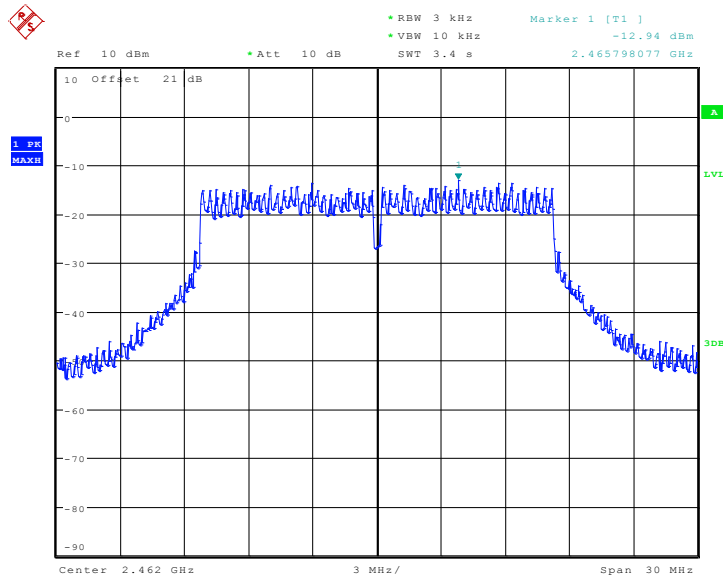
Date: 3.JUL.2013 14:51:06

Fig.A.3.4 Power Spectral Density (802.11g, Ch 1)



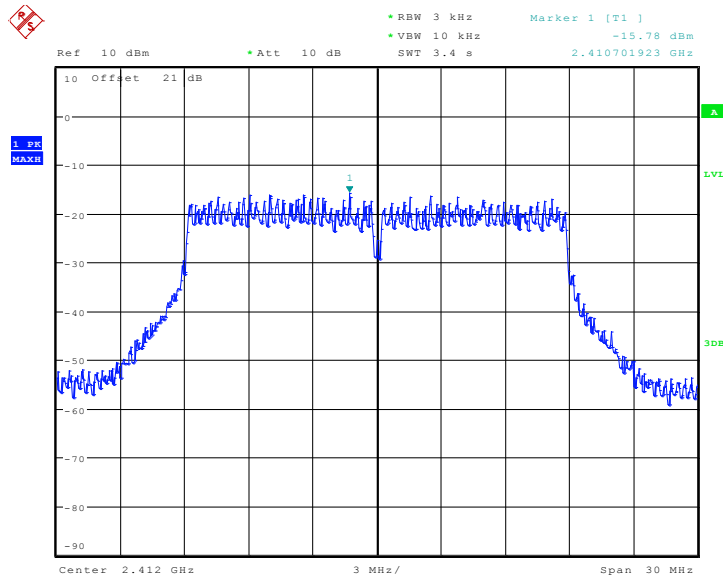
Date: 3.JUL.2013 14:51:48

Fig.A.3.5 Power Spectral Density (802.11g, Ch 6)



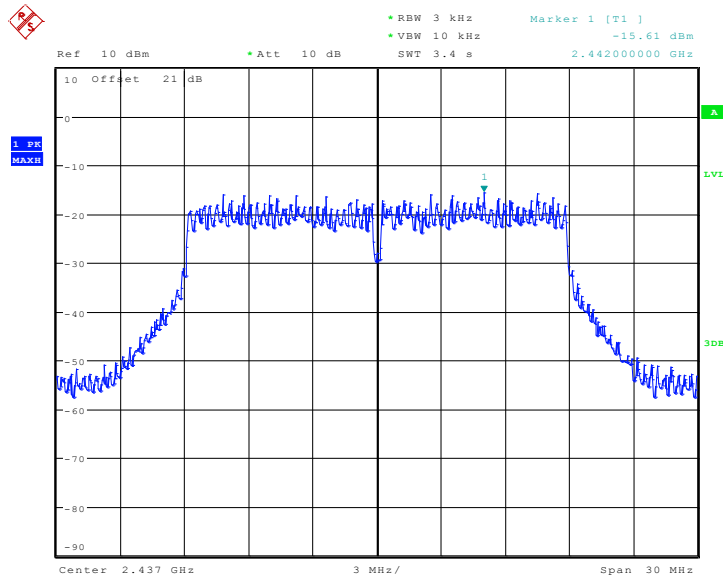
Date: 3.JUL.2013 14:52:24

Fig.A.3.6 Power Spectral Density (802.11g, Ch 11)



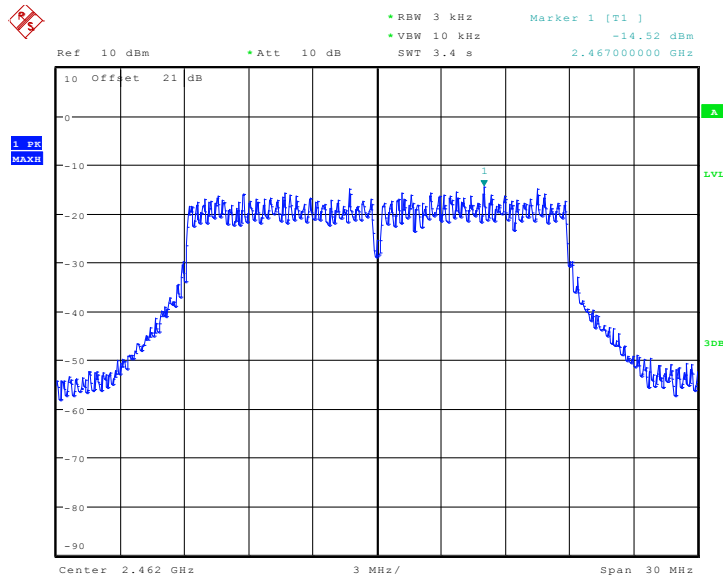
Date: 3.JUL.2013 14:53:51

Fig.A.3.7 Power Spectral Density (802.11n-HT20, Ch 1)



Date: 3.JUL.2013 14:54:36

Fig.A.3.8 Power Spectral Density (802.11n-HT20, Ch 6)



Date: 3.JUL.2013 14:55:41

Fig.A.3.9 Power Spectral Density (802.11n-HT20, Ch 11)

A.4. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

The measurement is made according to KDB558074.

EUT ID: EUT2

Modulation type and data rate tested:

802.11b	802.11g	802.11n-HT20
11Mbps(CCK)	48Mbps(OFDM)	MCS6(OFDM)

Measurement Result:

802.11b/g mode

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11b	1	Fig.A.4.1	9358.97	P
	6	Fig.A.4.2	9166.67	P
	11	Fig.A.4.3	9358.97	P
802.11g	1	Fig.A.4.4	16538.46	P
	6	Fig.A.4.5	16602.56	P
	11	Fig.A.4.6	16602.56	P

802.11n-HT20 mode

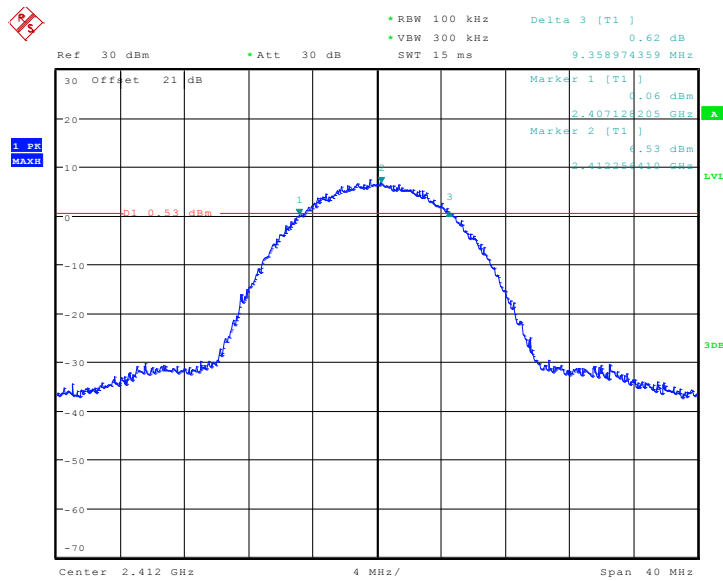
Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11n (HT20)	1	Fig.A.4.7	17820.51	P
	6	Fig.A.4.8	17820.51	P
	11	Fig.A.4.9	17756.41	P

Conclusion: Pass

Measurement Uncertainty:

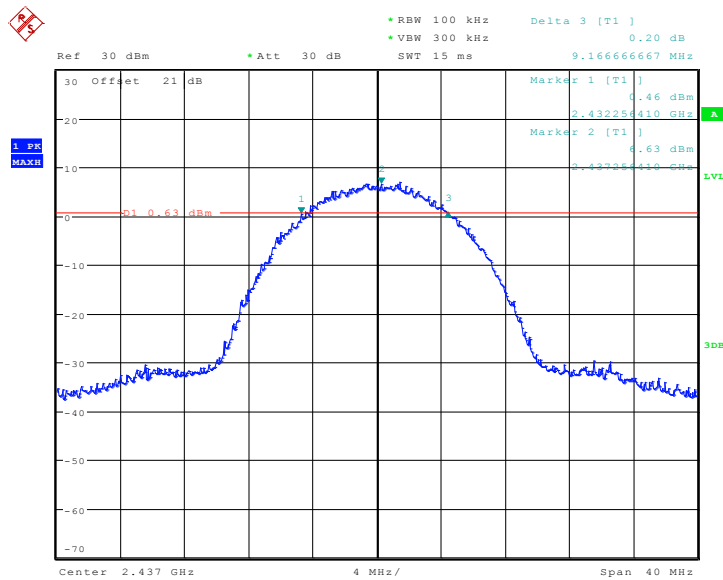
Measurement Uncertainty	60.80Hz
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Test graphs as below:



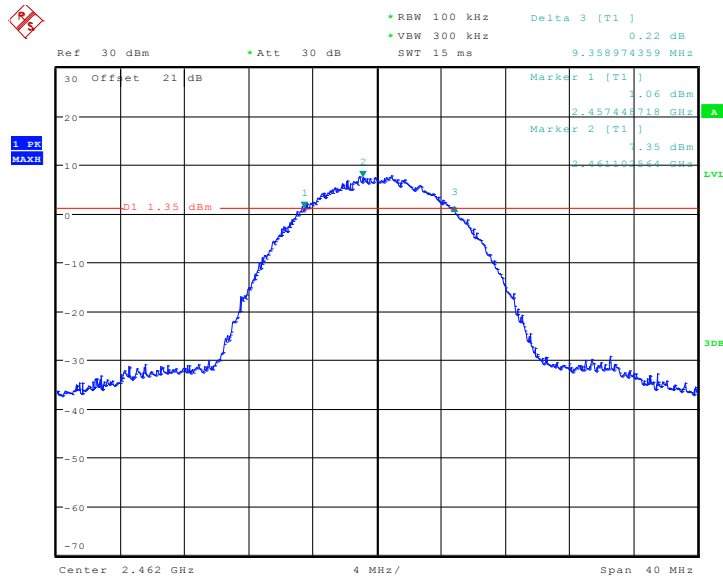
Date: 3.JUL.2013 15:01:43

Fig.A.4.1 Occupied 6dB Bandwidth (802.11b, Ch 1)



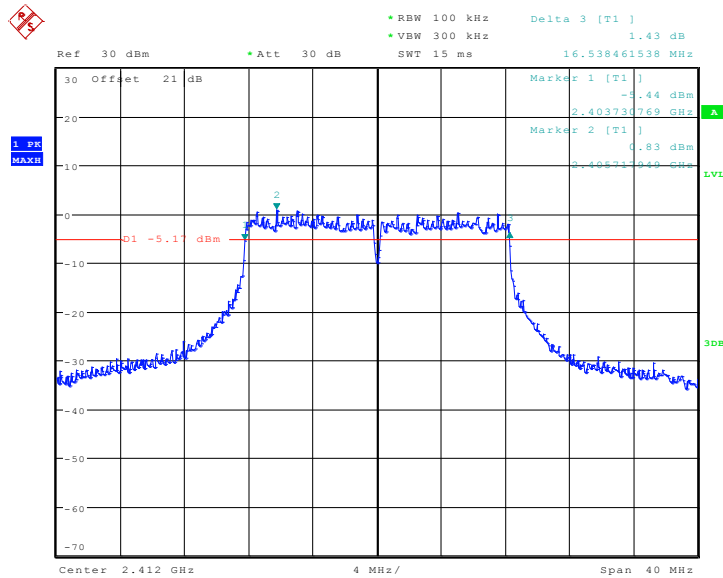
Date: 3.JUL.2013 15:05:11

Fig.A.4.2 Occupied 6dB Bandwidth (802.11b, Ch 6)



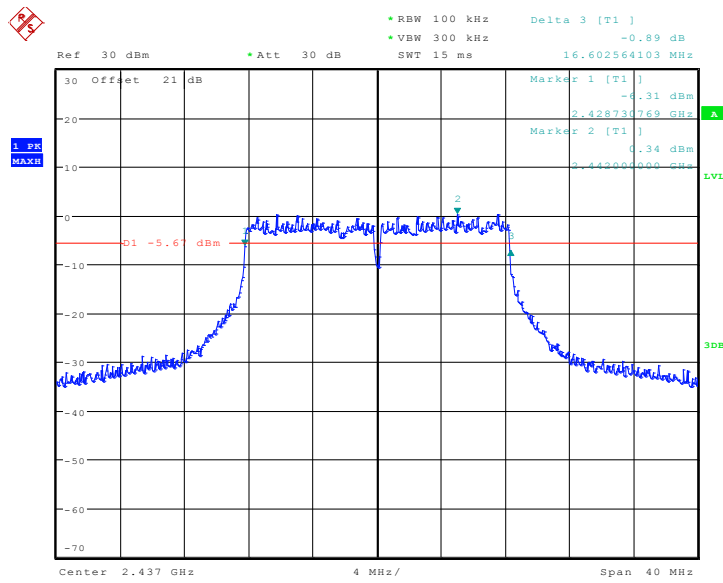
Date: 3.JUL.2013 15:08:14

Fig.A.4.3 Occupied 6dB Bandwidth (802.11b, Ch 11)



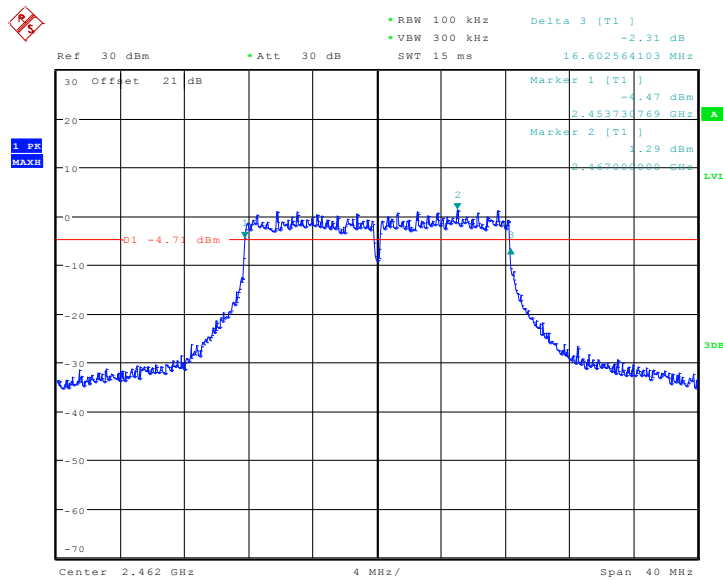
Date: 3.JUL.2013 15:10:19

Fig.A.4.4 Occupied 6dB Bandwidth (802.11g, Ch 1)



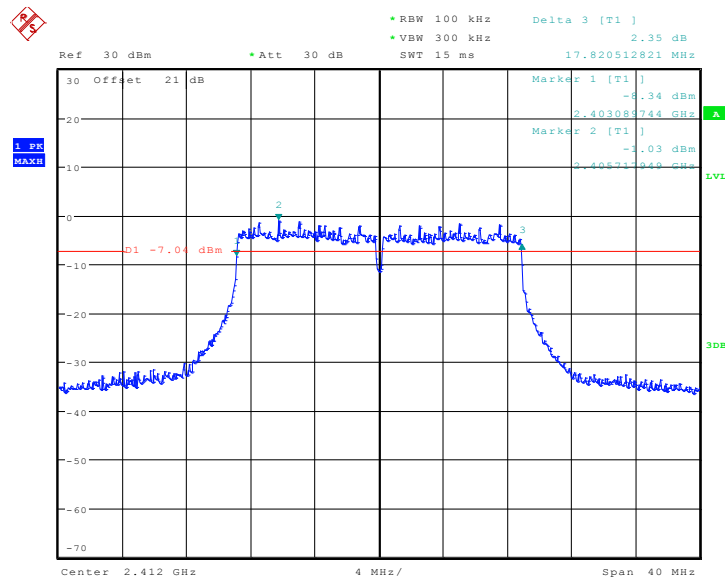
Date: 3.JUL.2013 15:11:41

Fig.A.4.5 Occupied 6dB Bandwidth (802.11g, Ch 6)



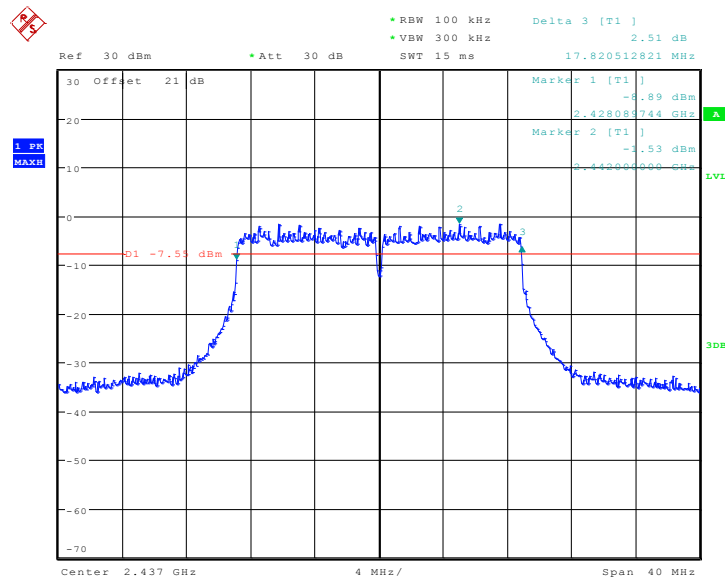
Date: 3.JUL.2013 15:13:23

Fig.A.4.6 Occupied 6dB Bandwidth (802.11g, Ch 11)



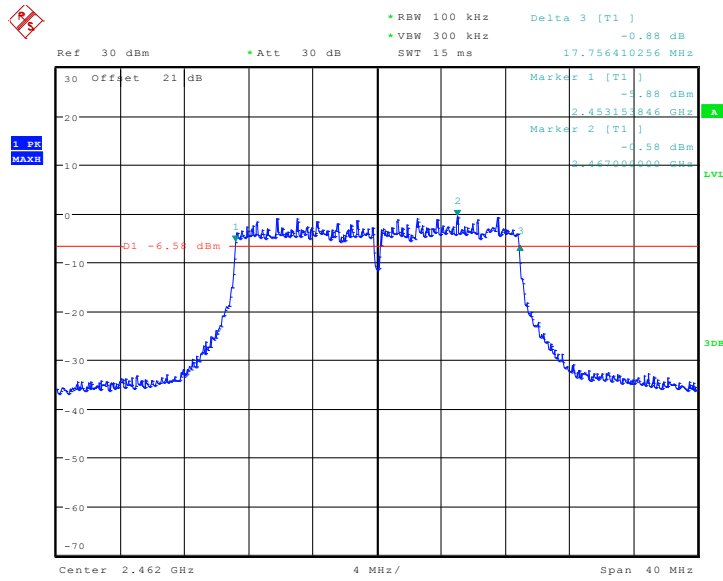
Date: 3.JUL.2013 15:15:30

Fig.A.4.7 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 1)



Date: 3.JUL.2013 15:17:17

Fig.A.4.8 Occupied 6dB Bandwidth (802.11n-HT20, Ch 6)



Date: 3.JUL.2013 15:22:01

Fig.A.4.9 Occupied 6dB Bandwidth (802.11n-HT20, Ch 11)

A.5. Band Edges Compliance

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

The measurement is made according to KDB558074.

EUT ID: EUT2

Modulation type and data rate tested:

802.11b	802.11g	802.11n-HT20
11Mbps(CCK)	48Mbps(OFDM)	MCS6(OFDM)

Measurement Result:

802.11b/g mode

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.A.5.1	P
	11	Fig.A.5.2	P
802.11g	1	Fig.A.5.3	P
	11	Fig.A.5.4	P

802.11n-HT20 mode

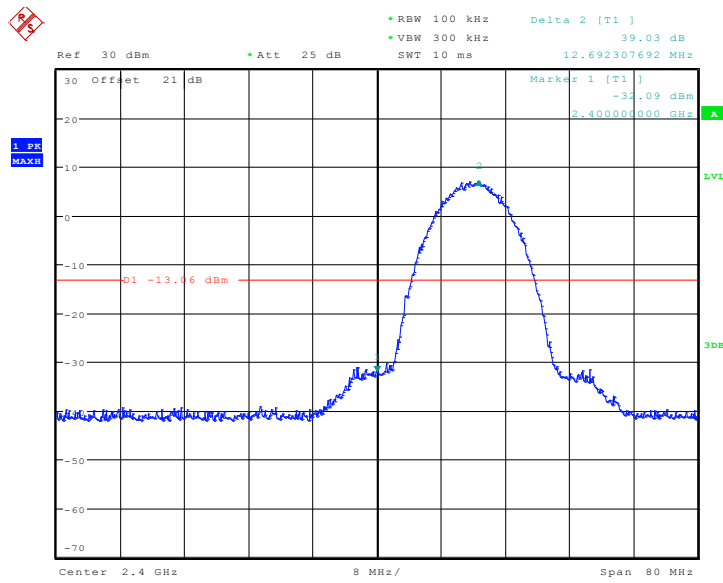
Mode	Channel	Test Results	Conclusion
802.11n (HT20)	1	Fig.A.5.5	P
	11	Fig.A.5.6	P

Conclusion: Pass

Measurement Uncertainty:

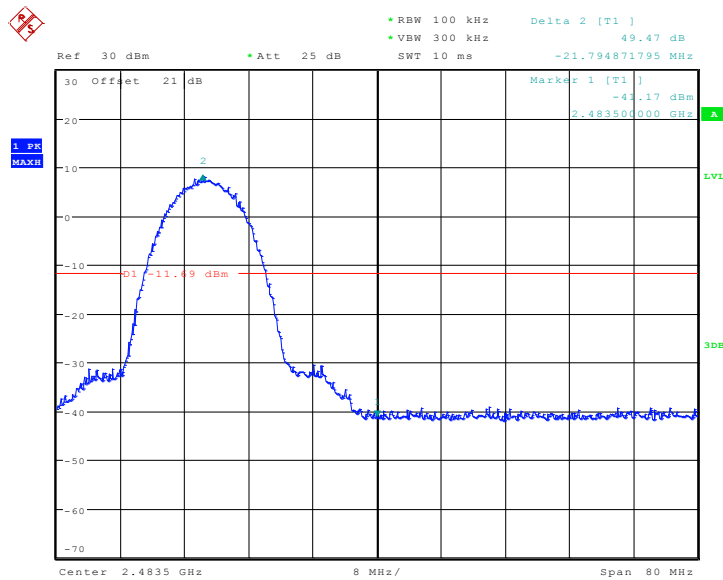
Measurement Uncertainty	0.75dB
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Test graphs as below:



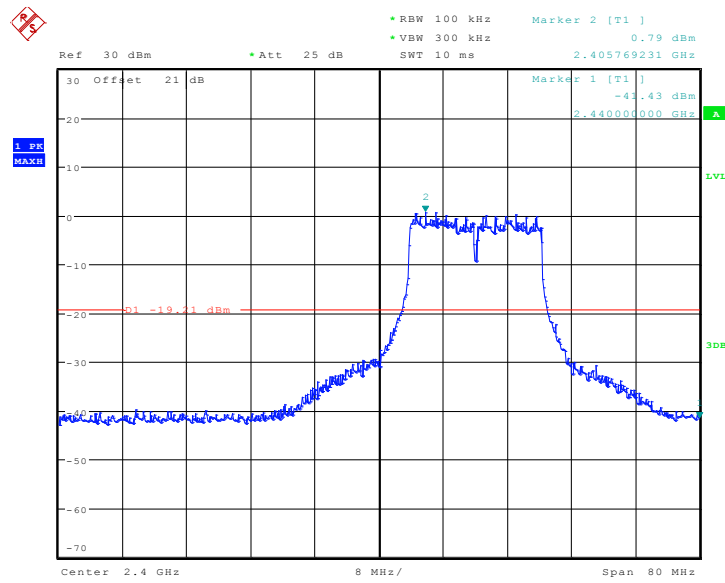
Date: 3.JUL.2013 15:27:08

Fig.A.5.1 Band Edges (802.11b, Ch 1)



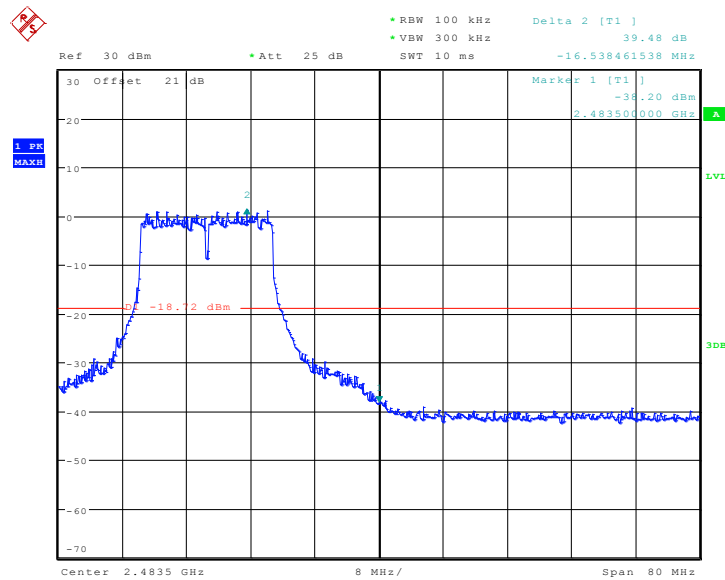
Date: 3.JUL.2013 15:28:42

Fig.A.5.2 Band Edges (802.11b, Ch 11)



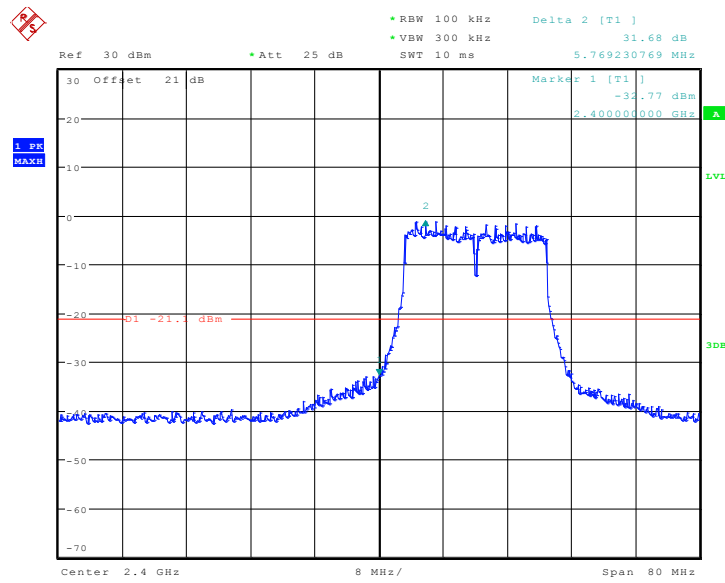
Date: 3.JUL.2013 15:29:38

Fig.A.5.3 Band Edges (802.11g, Ch 1)



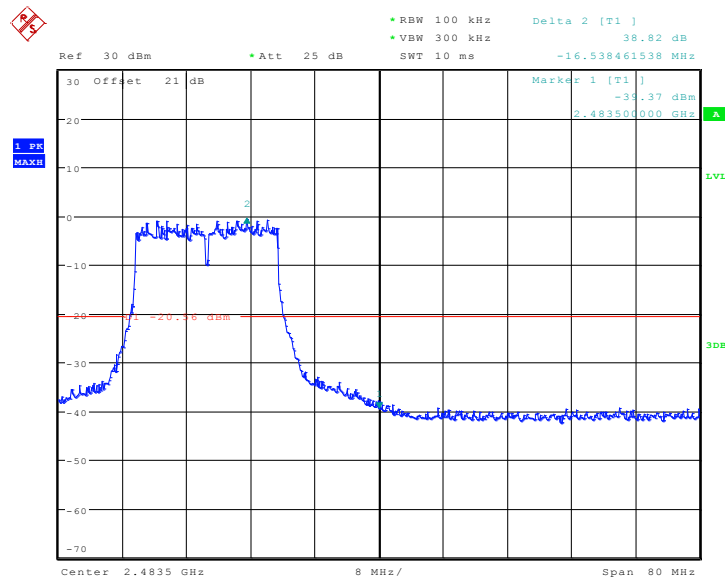
Date: 3.JUL.2013 15:31:05

Fig.A.5.4 Band Edges (802.11g, Ch 11)



Date: 3.JUL.2013 15:32:04

Fig.A.5.5 Band Edges (802.11n-HT20, Ch 1)



Date: 3.JUL.2013 15:33:21

Fig.A.5.6 Band Edges (802.11n-HT20, 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)	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to KDB558074.

EUT ID: EUT2

Modulation type and data rate tested:

802.11b	802.11g	802.11n-HT20
11Mbps(CCK)	48Mbps(OFDM)	MCS6(OFDM)

Measurement Results:

802.11b mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.A.6.1.1	P
		30 MHz ~ 1 GHz	Fig.A.6.1.2	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.3	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.4	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.5	P
		10 GHz ~ 15 GHz	Fig.A.6.1.6	P
		15 GHz ~ 20 GHz	Fig.A.6.1.7	P
		20 GHz ~ 26 GHz	Fig.A.6.1.8	P
	6	2.437 GHz	Fig.A.6.1.9	P
		30 MHz ~ 1 GHz	Fig.A.6.1.10	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.11	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.12	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.13	P
		10 GHz ~ 15 GHz	Fig.A.6.1.14	P
		15 GHz ~ 20 GHz	Fig.A.6.1.15	P
		20 GHz ~ 26 GHz	Fig.A.6.1.16	P
	11	2.462 GHz	Fig.A.6.1.17	P
		30 MHz ~ 1 GHz	Fig.A.6.1.18	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.19	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.20	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.21	P
		10 GHz ~ 15 GHz	Fig.A.6.1.22	P
		15 GHz ~ 20 GHz	Fig.A.6.1.23	P
		20 GHz ~ 26 GHz	Fig.A.6.1.24	P

802.11g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.412 GHz	Fig.A.6.1.25	P
		30 MHz ~ 1 GHz	Fig.A.6.1.26	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.27	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.28	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.29	P
		10 GHz ~ 15 GHz	Fig.A.6.1.30	P
		15 GHz ~ 20 GHz	Fig.A.6.1.31	P
		20 GHz ~ 26 GHz	Fig.A.6.1.32	P
	6	2.437 GHz	Fig.A.6.1.33	P
		30 MHz ~ 1 GHz	Fig.A.6.1.34	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.35	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.36	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.37	P
		10 GHz ~ 15 GHz	Fig.A.6.1.38	P
		15 GHz ~ 20 GHz	Fig.A.6.1.39	P
		20 GHz ~ 26 GHz	Fig.A.6.1.40	P
	11	2.462 GHz	Fig.A.6.1.41	P
		30 MHz ~ 1 GHz	Fig.A.6.1.42	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.43	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.44	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.45	P
		10 GHz ~ 15 GHz	Fig.A.6.1.46	P
		15 GHz ~ 20 GHz	Fig.A.6.1.47	P
		20 GHz ~ 26 GHz	Fig.A.6.1.48	P

802.11n-HT20 mode

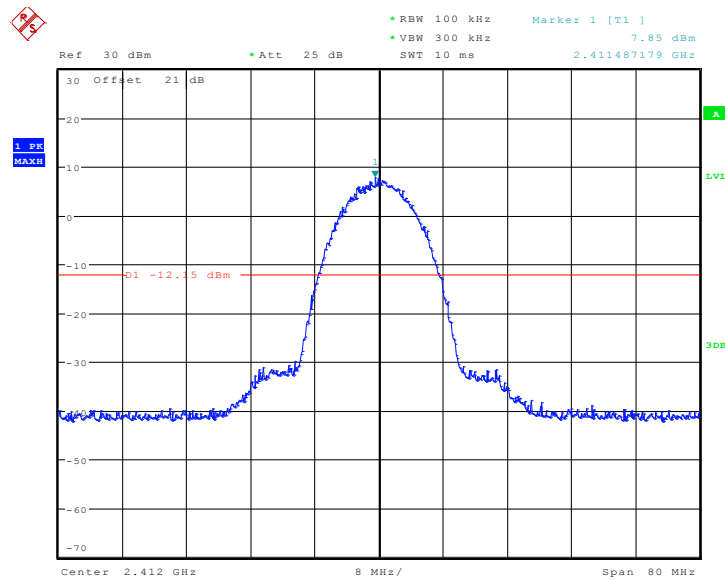
MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.412 GHz	Fig.A.6.1.49	P
		30 MHz ~ 1 GHz	Fig.A.6.1.50	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.51	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.52	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.53	P
		10 GHz ~ 15 GHz	Fig.A.6.1.54	P
		15 GHz ~ 20 GHz	Fig.A.6.1.55	P
		20 GHz ~ 26 GHz	Fig.A.6.1.56	P
	6	2.437 GHz	Fig.A.6.1.57	P
		30 MHz ~ 1 GHz	Fig.A.6.1.58	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.59	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.60	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.61	P
		10 GHz ~ 15 GHz	Fig.A.6.1.62	P
		15 GHz ~ 20 GHz	Fig.A.6.1.63	P
		20 GHz ~ 26 GHz	Fig.A.6.1.64	P
	11	2.462 GHz	Fig.A.6.1.65	P
		30 MHz ~ 1 GHz	Fig.A.6.1.66	P
		1 GHz ~ 2.5 GHz	Fig.A.6.1.67	P
		2.5 GHz ~ 7.5 GHz	Fig.A.6.1.68	P
		7.5 GHz ~ 10 GHz	Fig.A.6.1.69	P
		10 GHz ~ 15 GHz	Fig.A.6.1.70	P
		15 GHz ~ 20 GHz	Fig.A.6.1.71	P
		20 GHz ~ 26 GHz	Fig.A.6.1.72	P

Conclusion: Pass

Measurement Uncertainty:

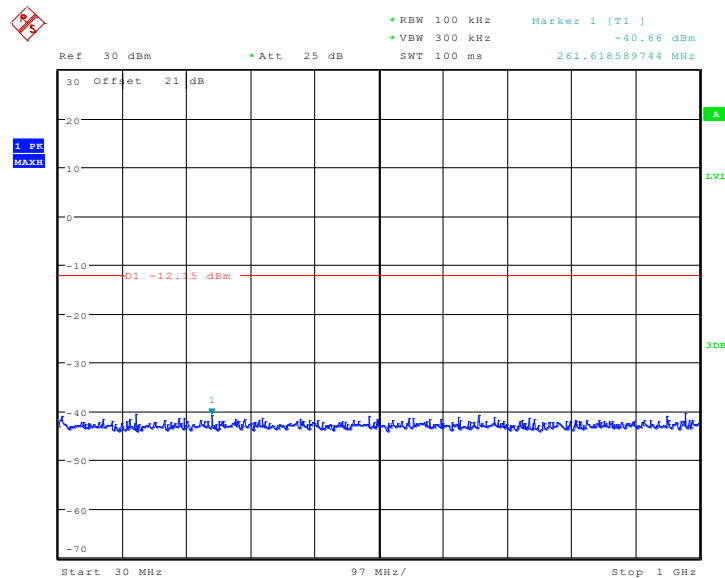
Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	0.63
2GHz ≤ f ≤ 3.6GHz	0.82
3.6GHz ≤ f ≤ 8GHz	1.55
8GHz ≤ f ≤ 20GHz	1.86
20GHz ≤ f ≤ 22GHz	1.90
22GHz ≤ f ≤ 26GHz	2.20

Test graphs as below:



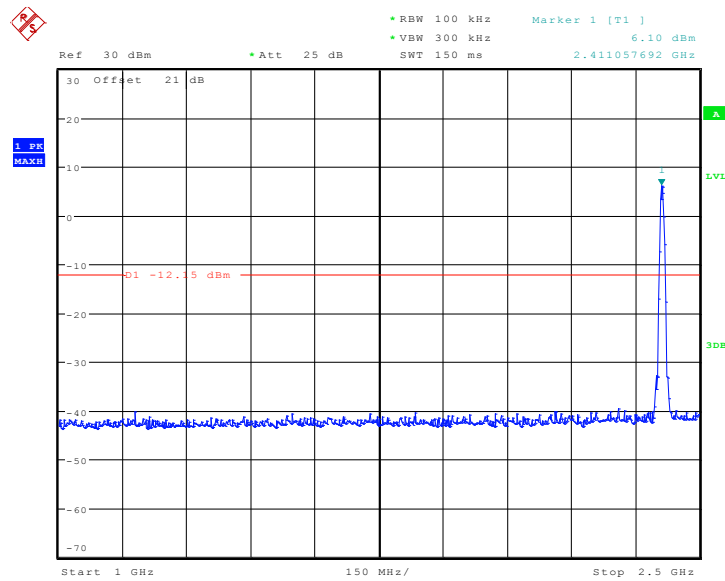
Date: 3.JUL.2013 15:36:41

Fig.A.6.1.1 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)



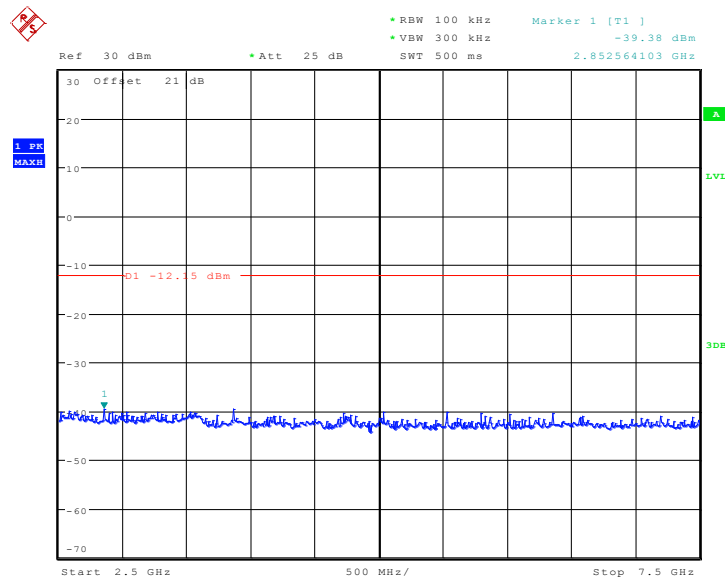
Date: 3.JUL.2013 15:36:59

Fig.A.6.1.2 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)



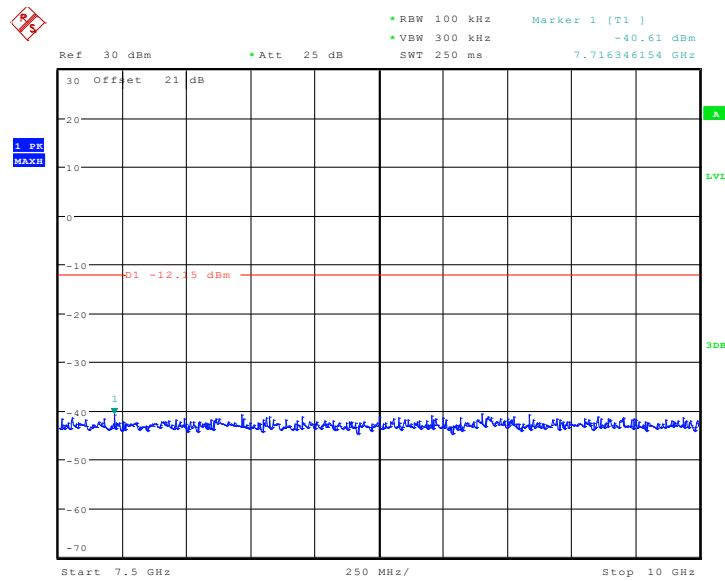
Date: 3.JUL.2013 15:42:26

Fig.A.6.1.3 Conducted Spurious Emission (802.11b, Ch1, 1 GHz-2.5 GHz)



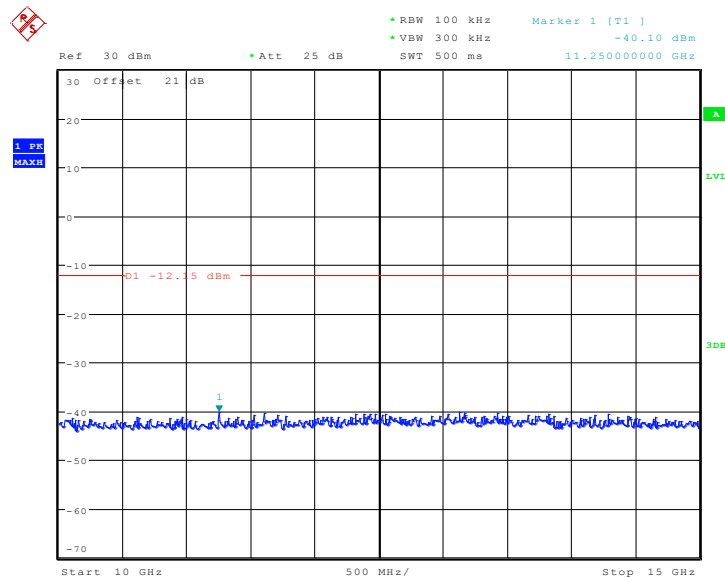
Date: 3.JUL.2013 15:42:53

Fig.A.6.1.4 Conducted Spurious Emission (802.11b, Ch1, 2.5 GHz-7.5 GHz)



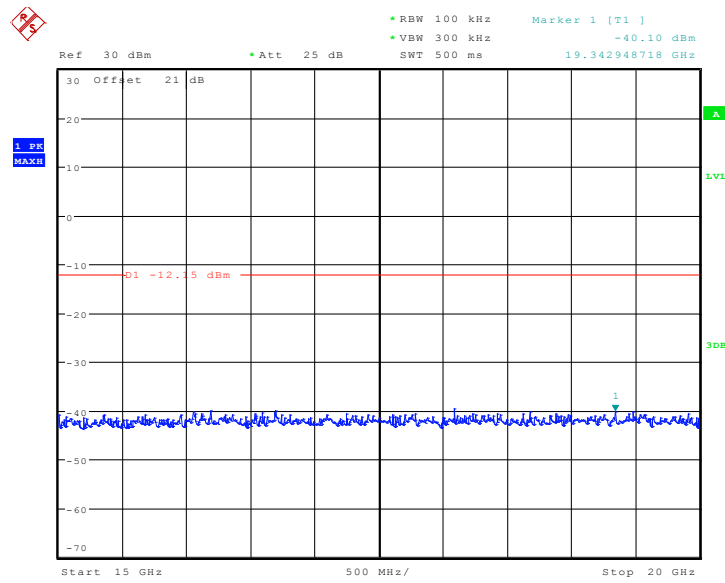
Date: 3.JUL.2013 15:43:13

Fig.A.6.1.5 Conducted Spurious Emission (802.11b, Ch1, 7.5 GHz-10 GHz)



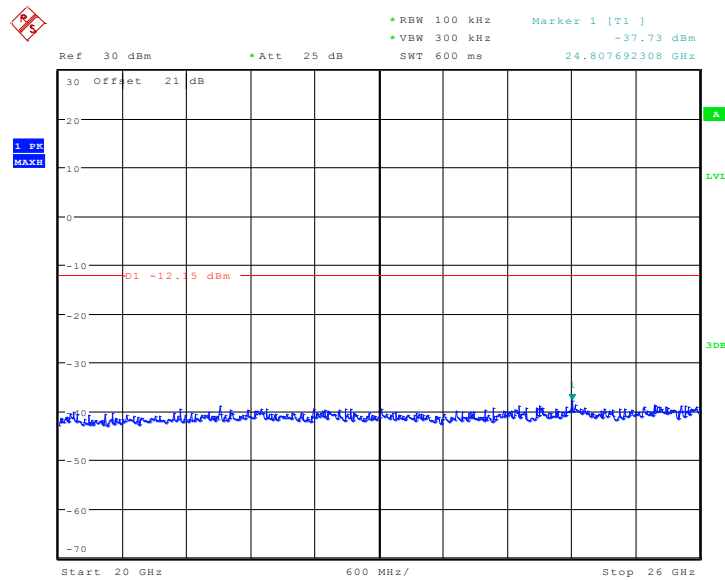
Date: 3.JUL.2013 15:43:32

Fig.A.6.1.6 Conducted Spurious Emission (802.11b, Ch1, 10 GHz-15 GHz)



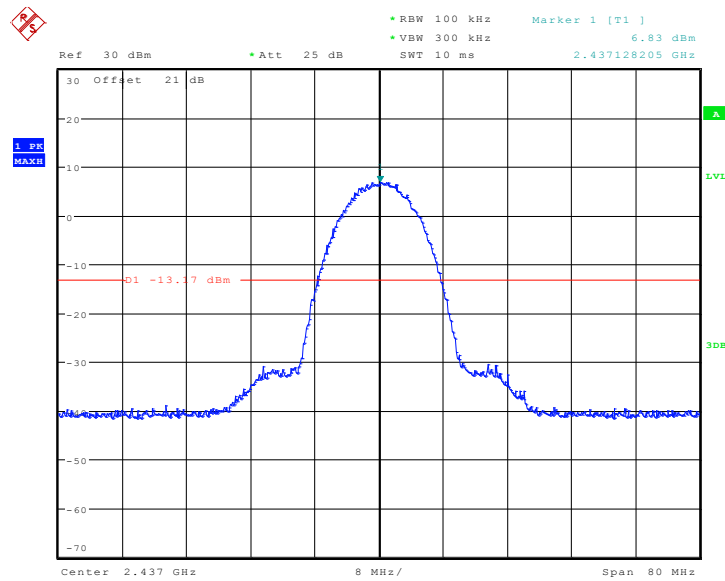
Date: 3.JUL.2013 15:43:49

Fig.A.6.1.7 Conducted Spurious Emission (802.11b, Ch1, 15 GHz-20 GHz)



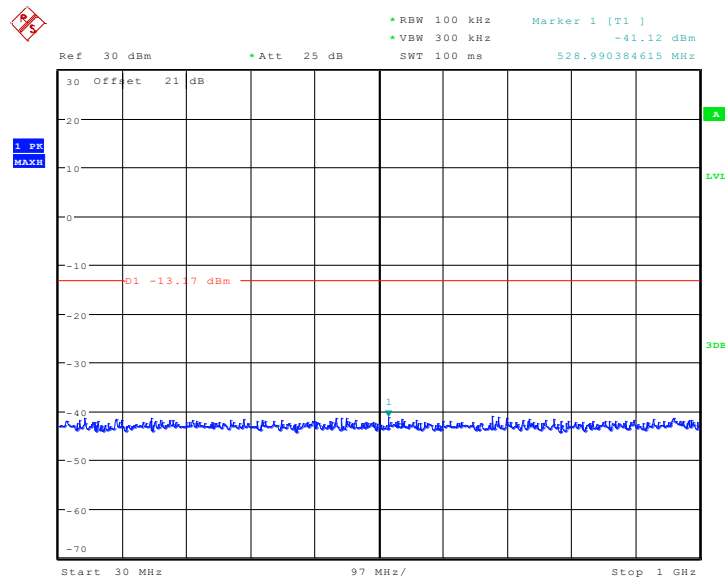
Date: 3.JUL.2013 15:44:12

Fig.A.6.1.8 Conducted Spurious Emission (802.11b, Ch1, 20 GHz-26 GHz)



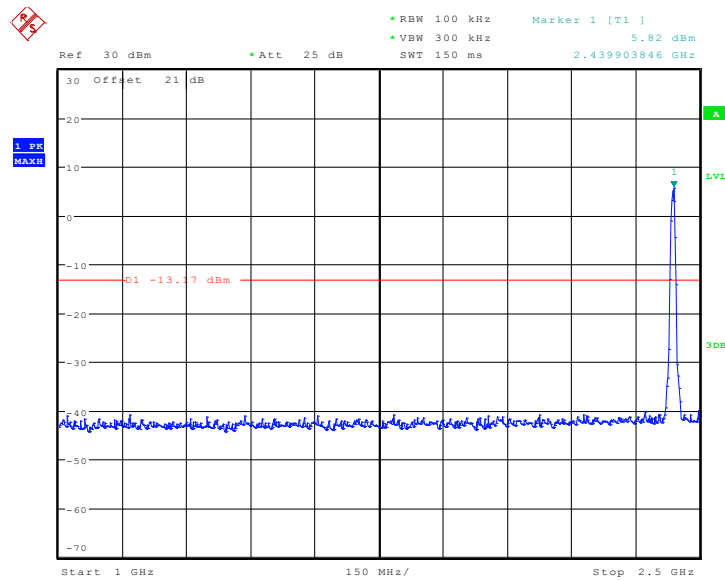
Date: 3.JUL.2013 15:54:53

Fig.A.6.1.9 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)



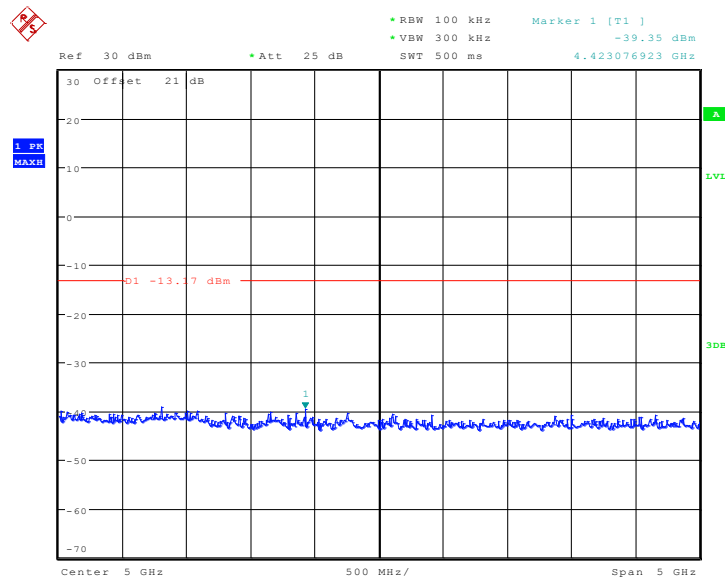
Date: 3.JUL.2013 15:55:18

Fig.A.6.1.10 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)



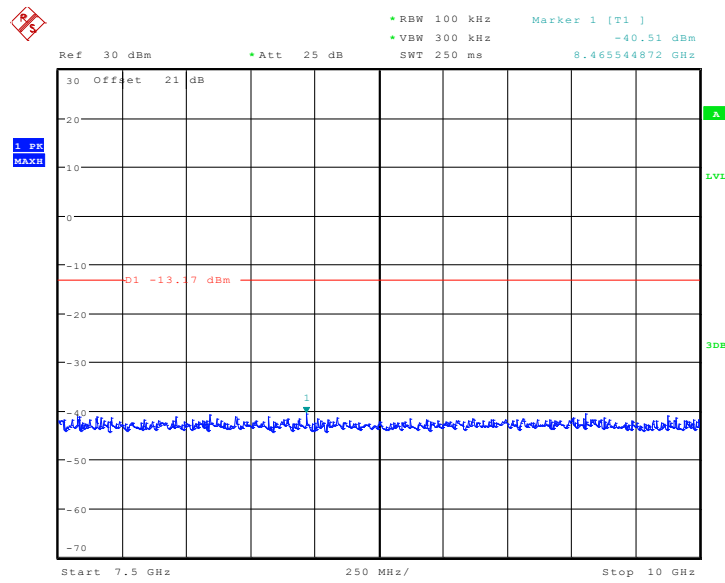
Date: 3.JUL.2013 15:55:33

Fig.A.6.1.11 Conducted Spurious Emission (802.11b, Ch6, 1 GHz-2.5 GHz)



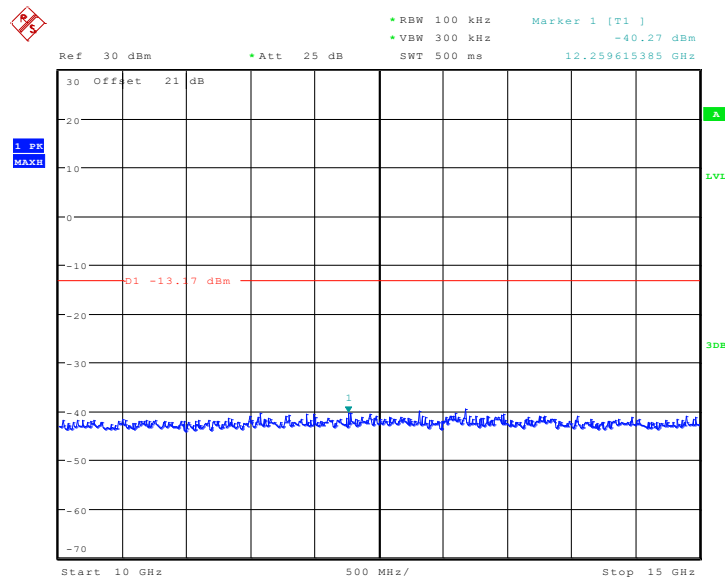
Date: 3.JUL.2013 15:55:59

Fig.A.6.1.12 Conducted Spurious Emission (802.11b, Ch6, 2.5 GHz-7.5 GHz)



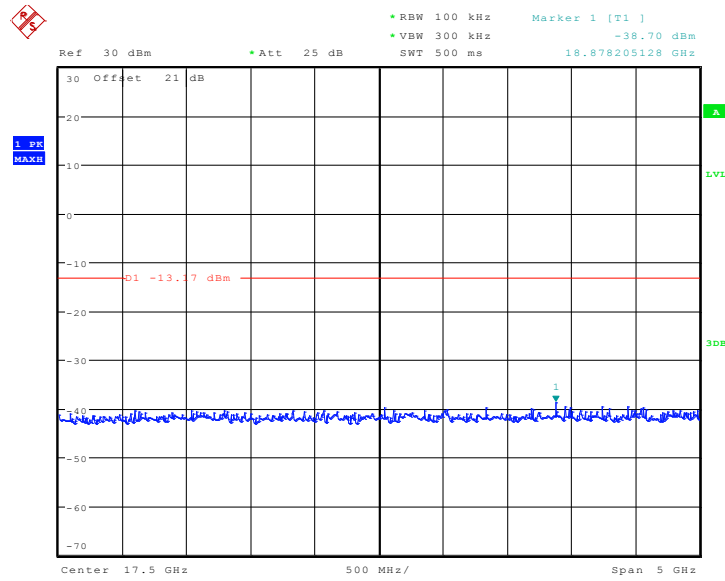
Date: 3.JUL.2013 15:56:21

Fig.A.6.1.13 Conducted Spurious Emission (802.11b, Ch6, 7.5 GHz-10 GHz)



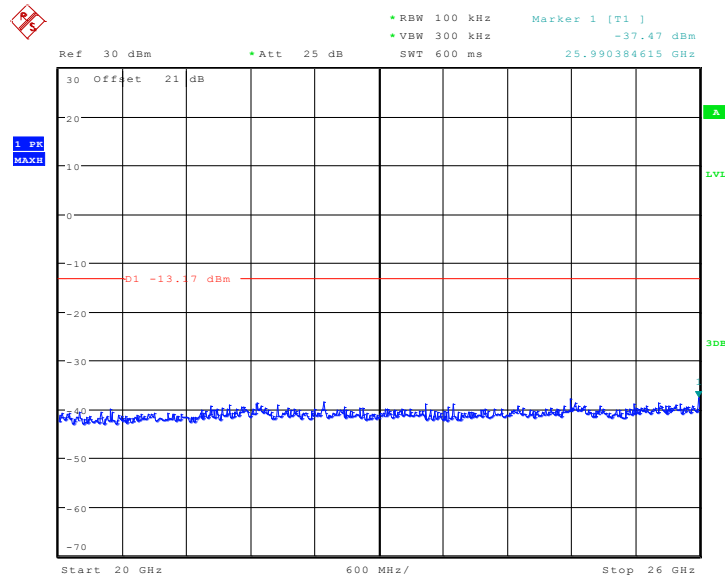
Date: 3.JUL.2013 15:56:37

Fig.A.6.1.14 Conducted Spurious Emission (802.11b, Ch6, 10 GHz-15 GHz)



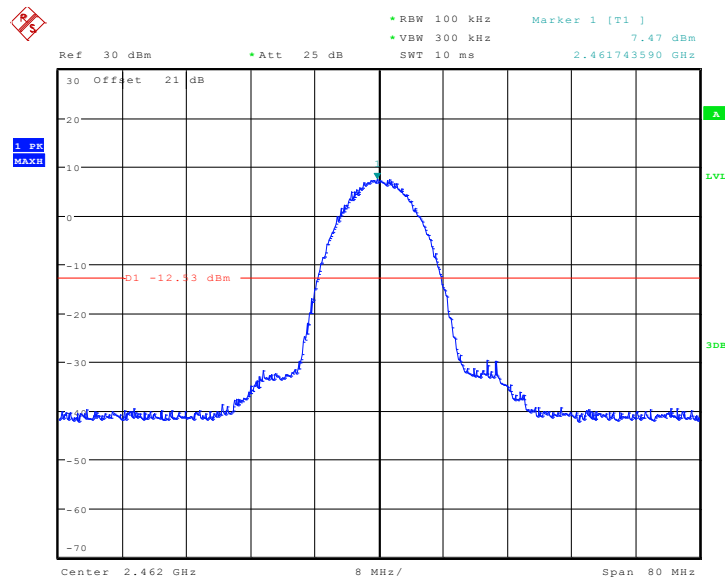
Date: 3.JUL.2013 15:57:03

Fig.A.6.1.15 Conducted Spurious Emission (802.11b, Ch6, 15 GHz-20 GHz)



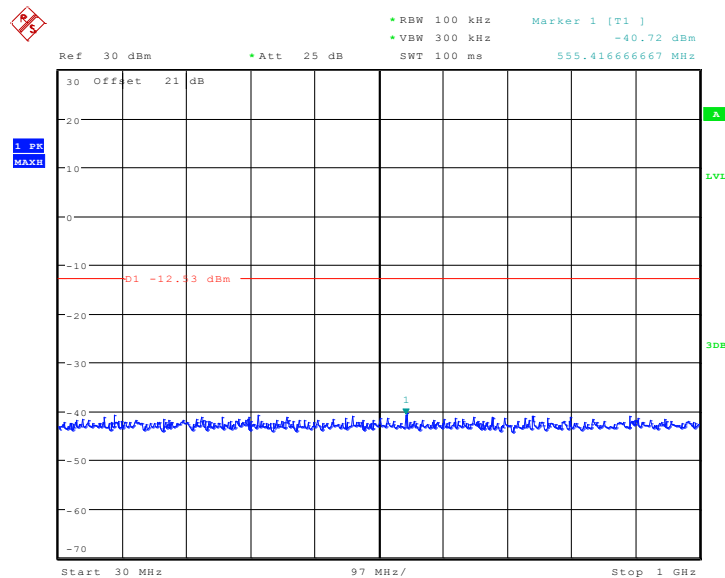
Date: 3.JUL.2013 15:57:22

Fig.A.6.1.16 Conducted Spurious Emission (802.11b, Ch6, 20 GHz-26 GHz)



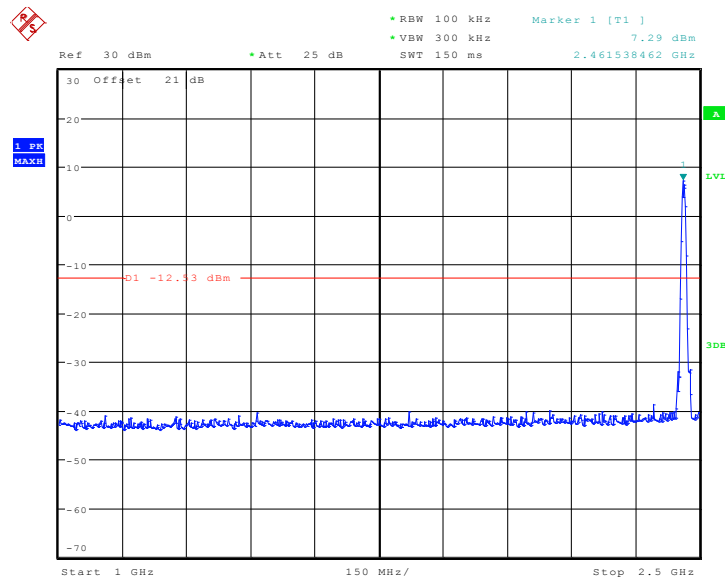
Date: 3.JUL.2013 15:58:26

Fig.A.6.1.17 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)



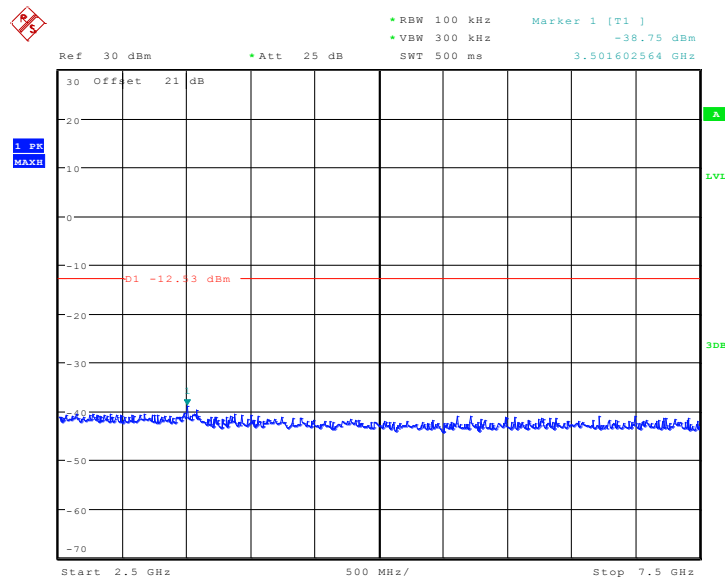
Date: 3.JUL.2013 15:58:45

Fig.A.6.1.18 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)



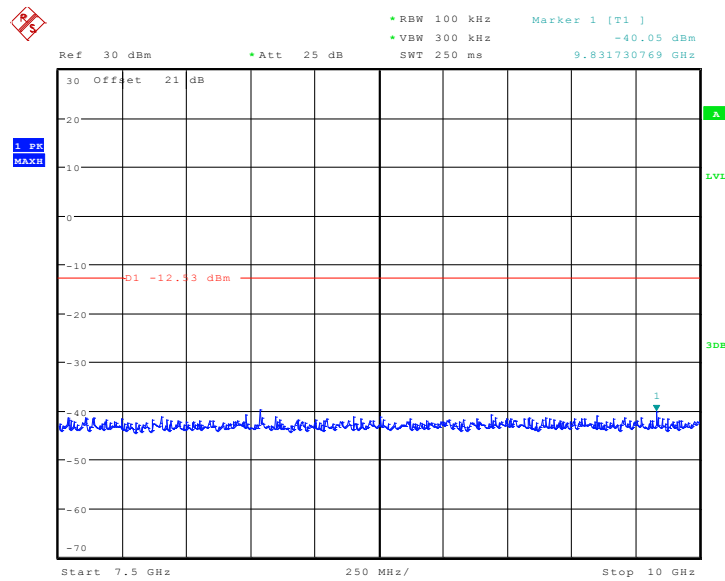
Date: 3.JUL.2013 15:59:08

Fig.A.6.1.19 Conducted Spurious Emission (802.11b, Ch11, 1 GHz-2.5 GHz)



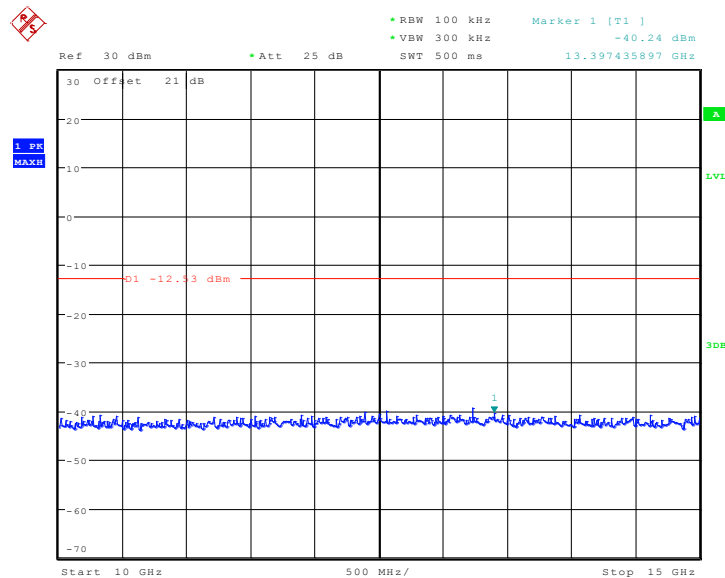
Date: 3.JUL.2013 15:59:30

Fig.A.6.1.20 Conducted Spurious Emission (802.11b, Ch11, 2.5 GHz-7.5 GHz)



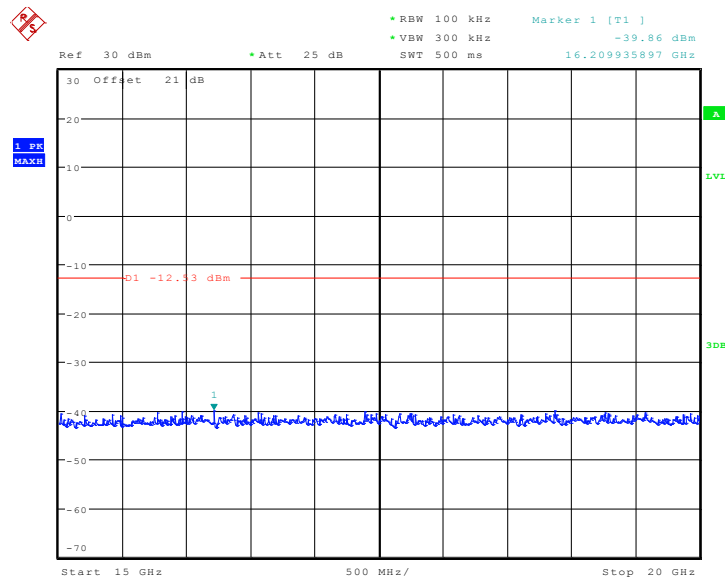
Date: 3.JUL.2013 15:59:47

Fig.A.6.1.21 Conducted Spurious Emission (802.11b, Ch11, 7.5 GHz-10 GHz)



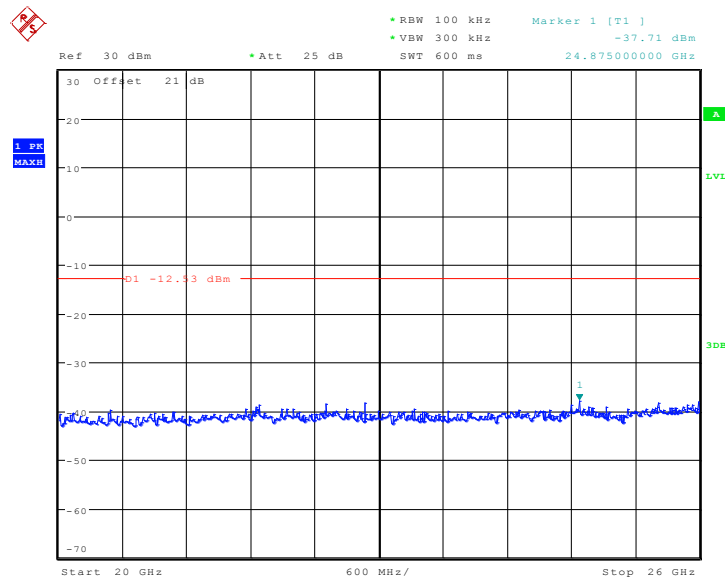
Date: 3.JUL.2013 16:00:09

Fig.A.6.1.22 Conducted Spurious Emission (802.11b, Ch11, 10 GHz-15 GHz)



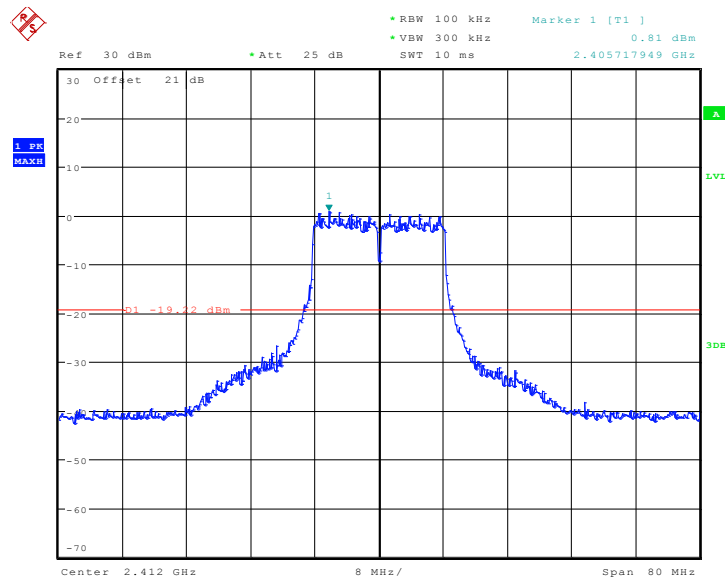
Date: 3.JUL.2013 16:00:27

Fig.A.6.1.23 Conducted Spurious Emission (802.11b, Ch11, 15 GHz-20 GHz)



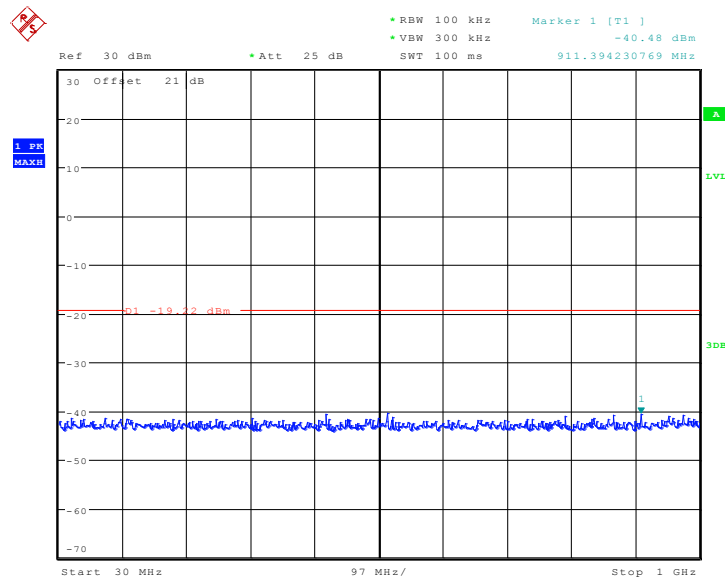
Date: 3.JUL.2013 16:00:45

Fig.A.6.1.24 Conducted Spurious Emission (802.11b, Ch11, 20 GHz-26 GHz)



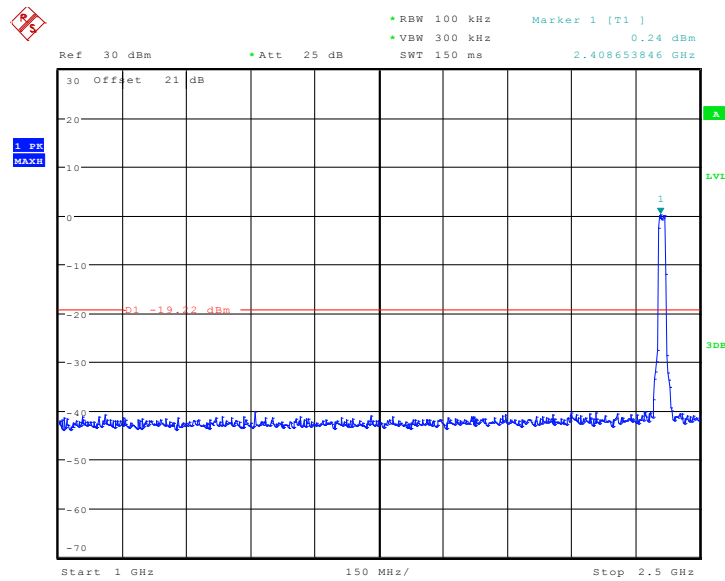
Date: 3.JUL.2013 16:02:40

Fig.A.6.1.25 Conducted Spurious Emission (802.11g, Ch1, Center Frequency)



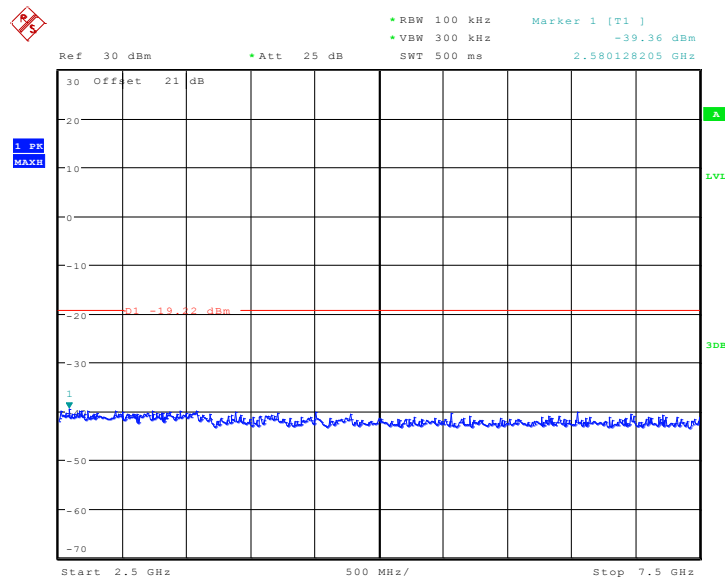
Date: 3.JUL.2013 16:02:59

Fig.A.6.1.26 Conducted Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)



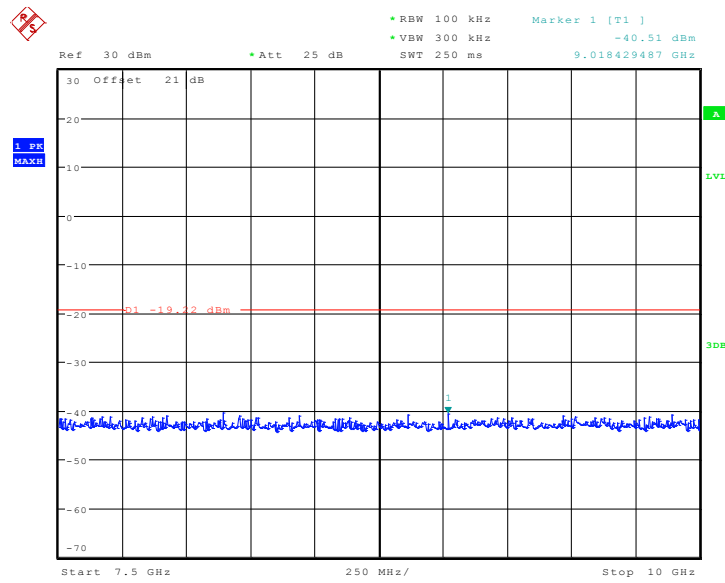
Date: 3.JUL.2013 16:03:18

Fig.A.6.1.27 Conducted Spurious Emission (802.11g, Ch1, 1 GHz-2.5 GHz)



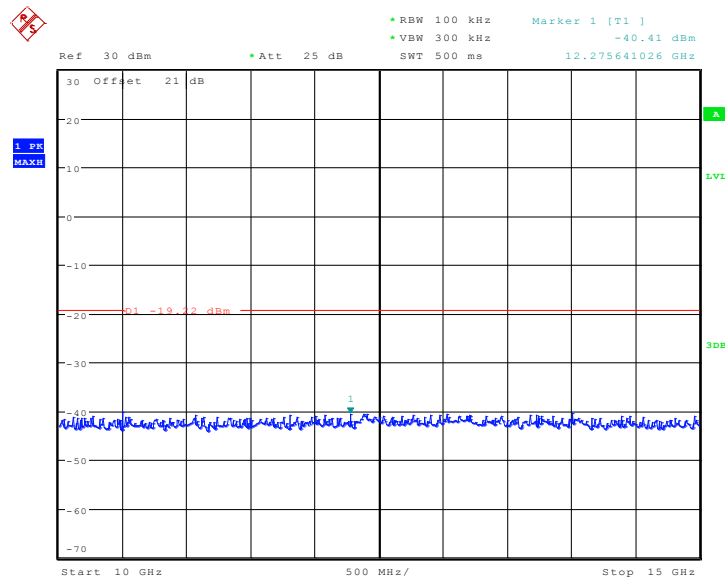
Date: 3.JUL.2013 16:04:04

Fig.A.6.1.28 Conducted Spurious Emission (802.11g, Ch1, 2.5 GHz-7.5 GHz)



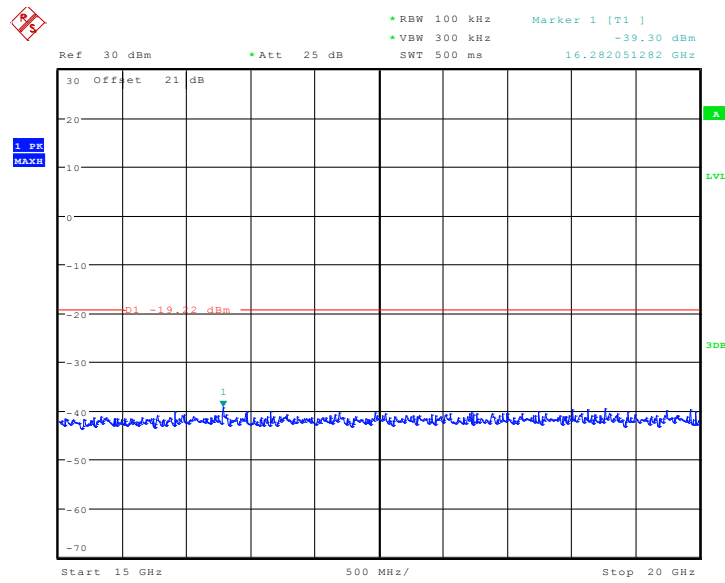
Date: 3.JUL.2013 16:04:32

Fig.A.6.1.29 Conducted Spurious Emission (802.11g, Ch1, 7.5 GHz-10 GHz)



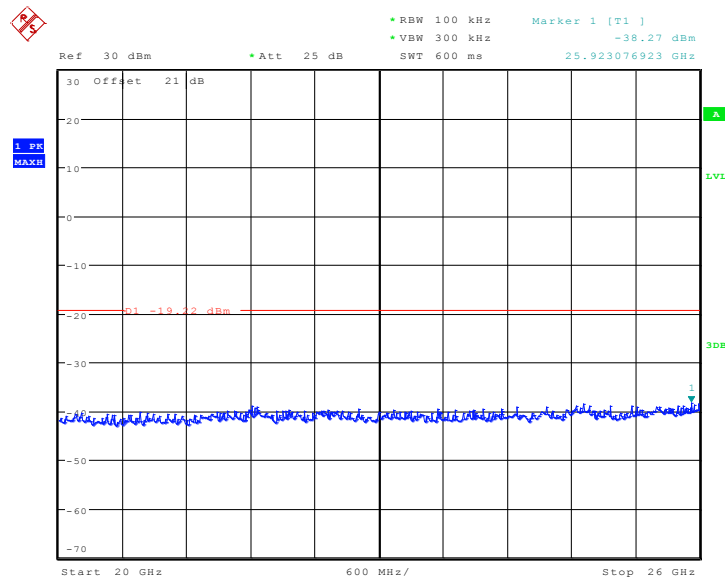
Date: 3.JUL.2013 16:04:49

Fig.A.6.1.30 Conducted Spurious Emission (802.11g, Ch1, 10 GHz-15 GHz)



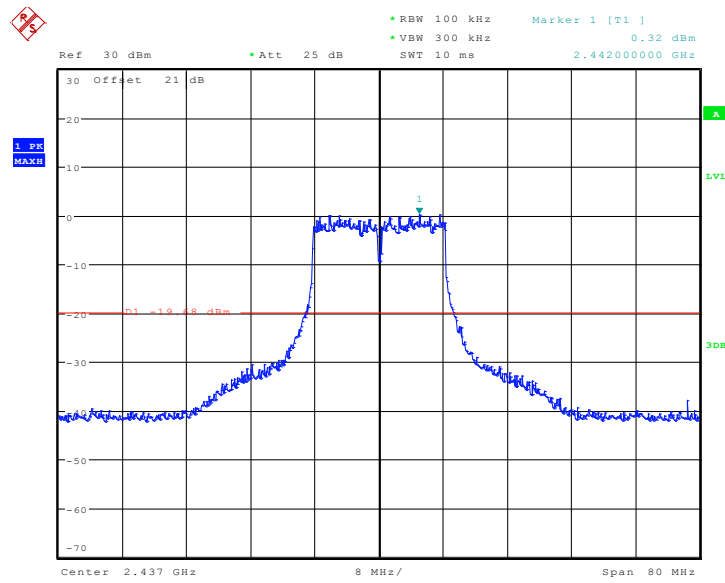
Date: 3.JUL.2013 16:05:09

Fig.A.6.1.31 Conducted Spurious Emission (802.11g, Ch1, 15 GHz-20 GHz)



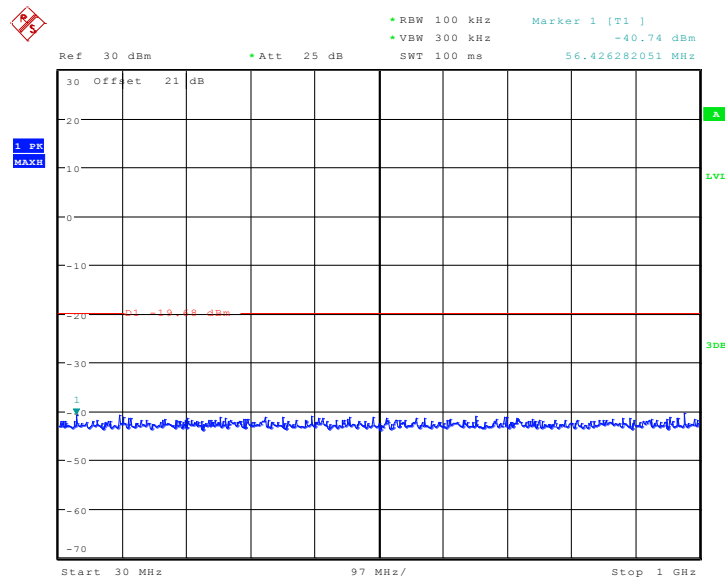
Date: 3.JUL.2013 16:05:28

Fig.A.6.1.32 Conducted Spurious Emission (802.11g, Ch1, 20 GHz-26 GHz)



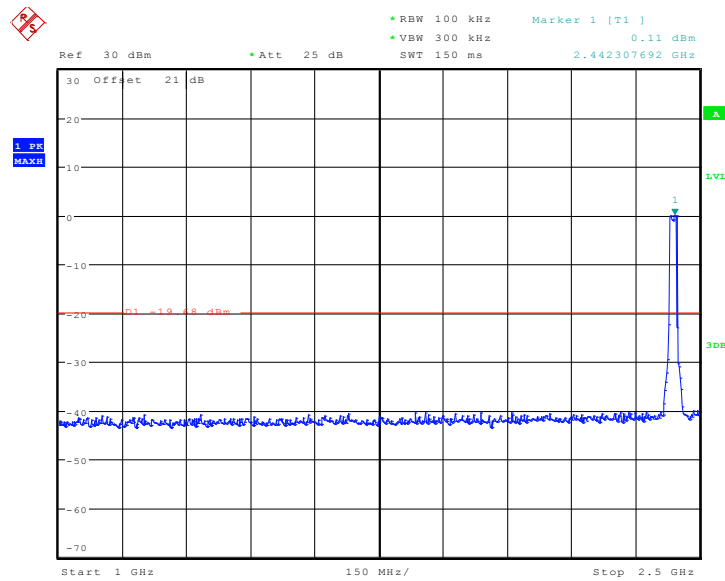
Date: 3.JUL.2013 16:10:52

Fig.A.6.1.33 Conducted Spurious Emission (802.11g, Ch6, Center Frequency)



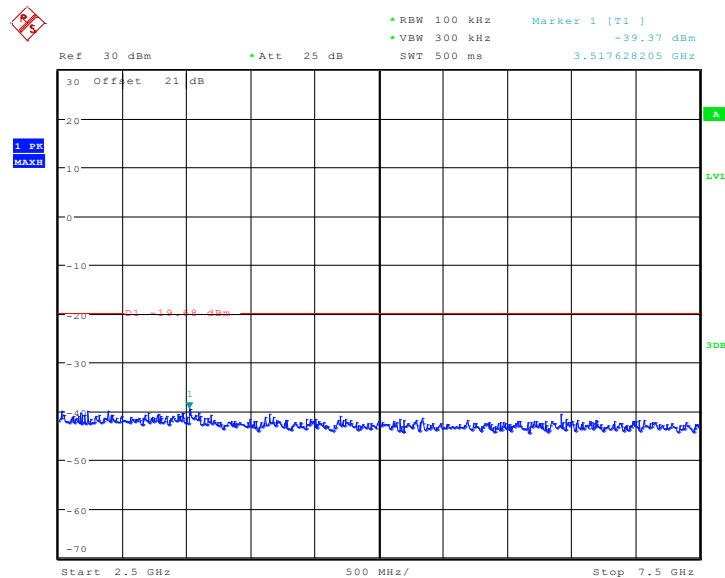
Date: 3.JUL.2013 16:11:17

Fig.A.6.1.34 Conducted Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)



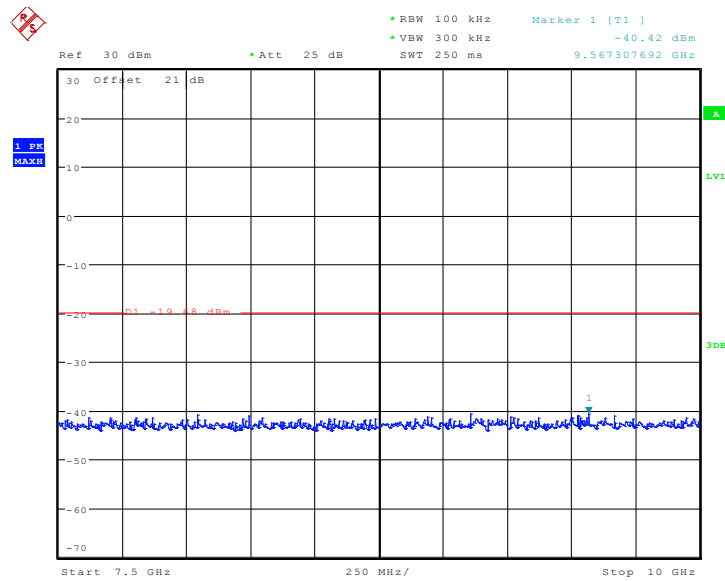
Date: 3.JUL.2013 16:11:57

Fig.A.6.1.35 Conducted Spurious Emission (802.11g, Ch6, 1 GHz-2.5 GHz)



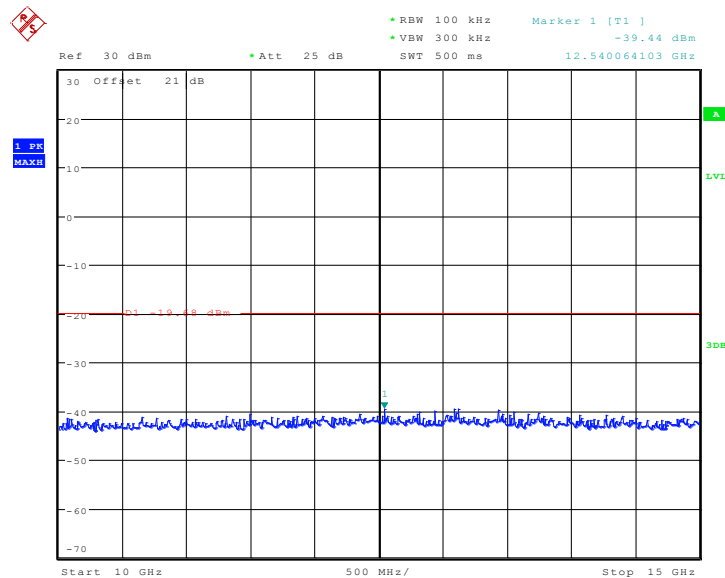
Date: 3.JUL.2013 16:12:15

Fig.A.6.1.36 Conducted Spurious Emission (802.11g, Ch6, 2.5 GHz-7.5 GHz)



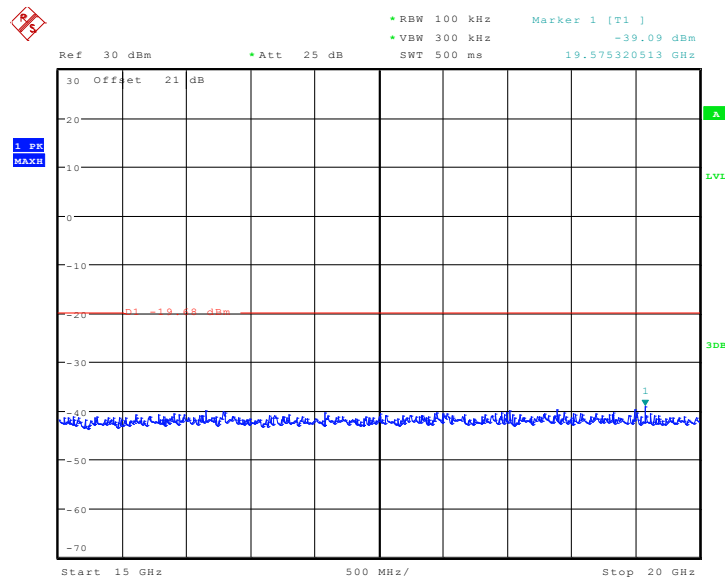
Date: 3.JUL.2013 16:12:35

Fig.A.6.137 Conducted Spurious Emission (802.11g, Ch6, 7.5 GHz-10 GHz)



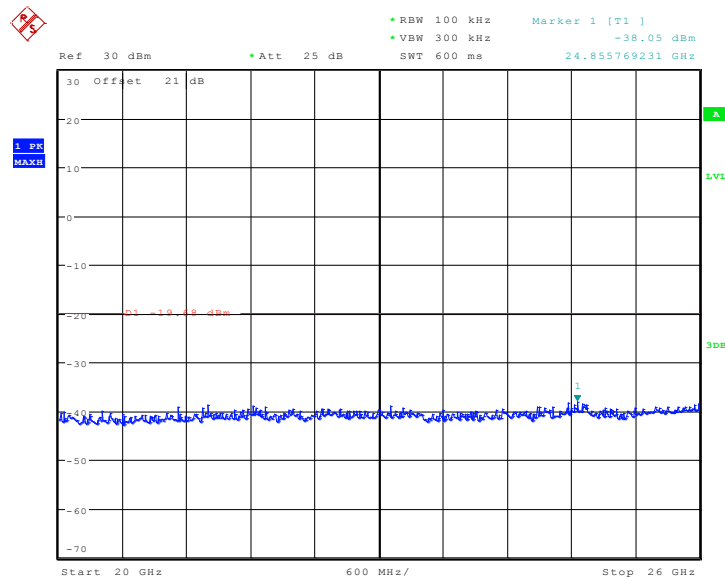
Date: 3.JUL.2013 16:12:53

Fig.A.6.138 Conducted Spurious Emission (802.11g, Ch6, 10 GHz-15 GHz)



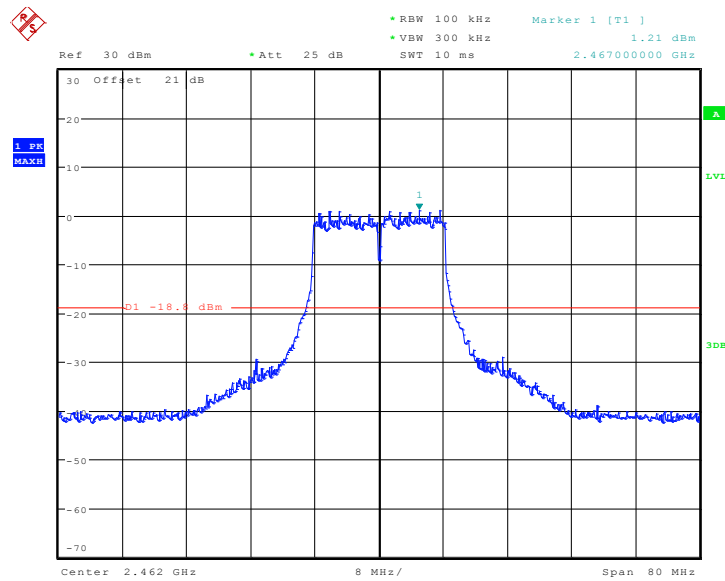
Date: 3.JUL.2013 16:13:10

Fig.A.6.1.39 Conducted Spurious Emission (802.11g, Ch6, 15 GHz-20 GHz)



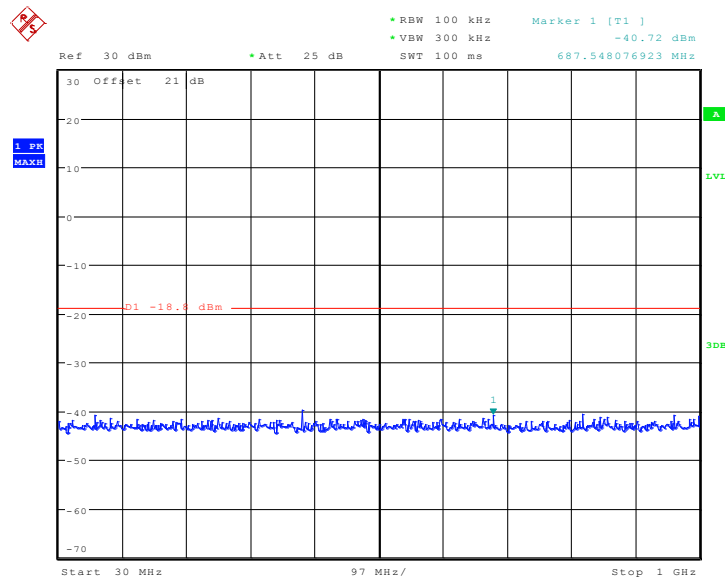
Date: 3.JUL.2013 16:13:37

Fig.A.6.1.40 Conducted Spurious Emission (802.11g, Ch6, 20 GHz-26 GHz)



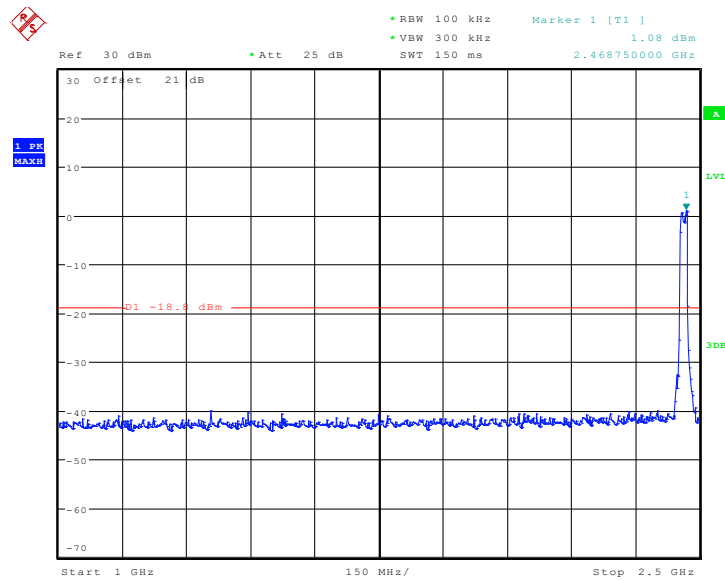
Date: 3.JUL.2013 16:14:28

Fig.A.6.1.41 Conducted Spurious Emission (802.11g, Ch11, Center Frequency)



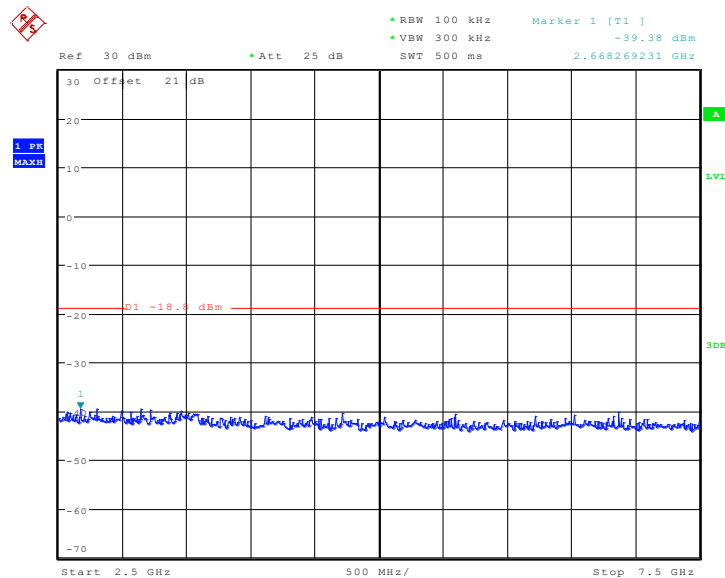
Date: 3.JUL.2013 16:14:44

Fig.A.6.1.42 Conducted Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)



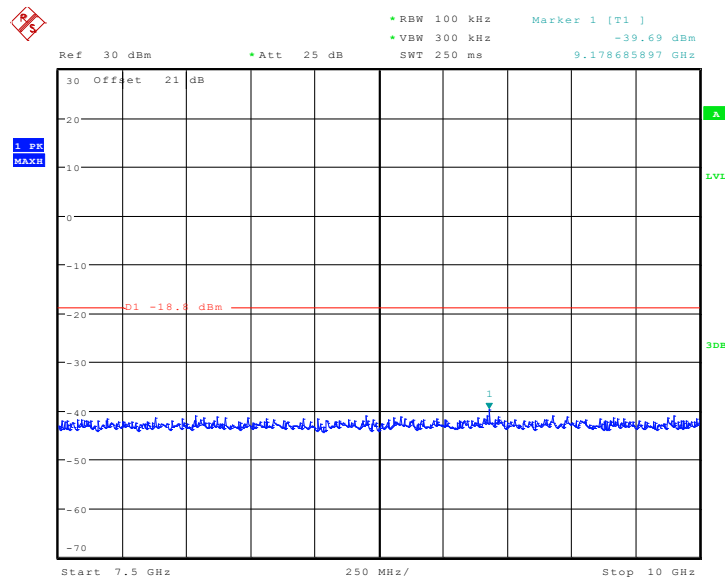
Date: 3.JUL.2013 16:15:01

Fig.A.6.1.43 Conducted Spurious Emission (802.11g, Ch11, 1 GHz-2.5 GHz)



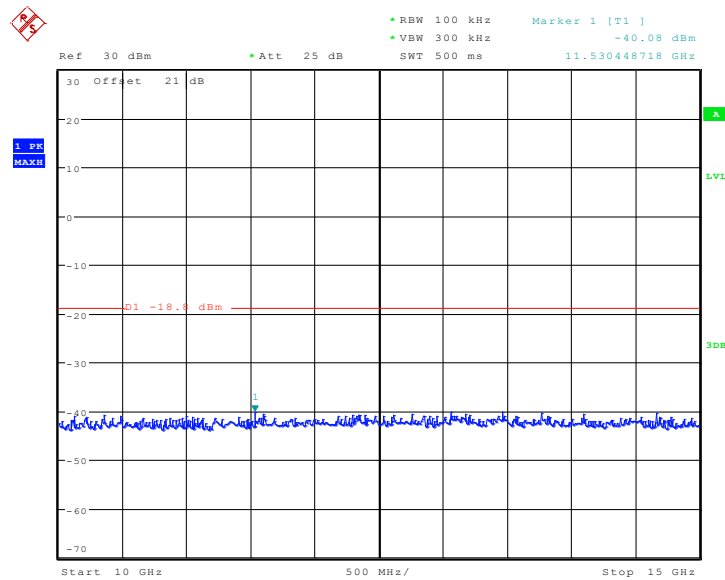
Date: 3.JUL.2013 16:15:24

Fig.A.6.1.44 Conducted Spurious Emission (802.11g, Ch11, 2.5 GHz-7.5 GHz)



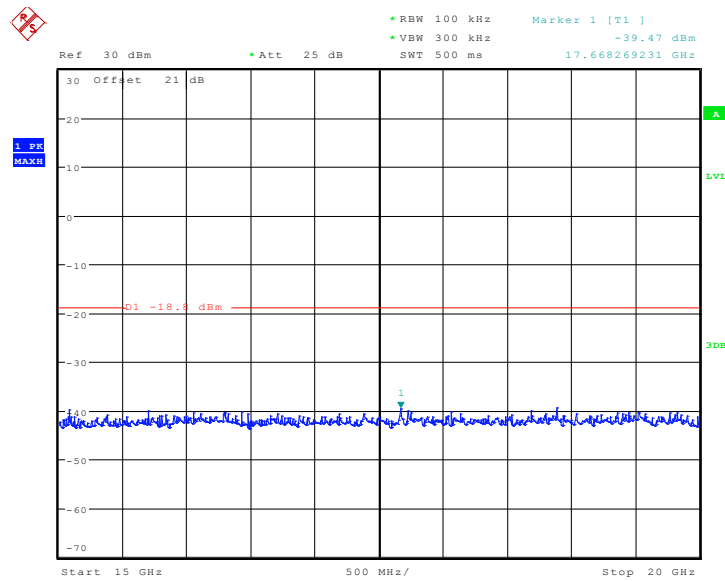
Date: 3.JUL.2013 16:15:44

Fig.A.6.1.45 Conducted Spurious Emission (802.11g, Ch11, 7.5 GHz-10 GHz)



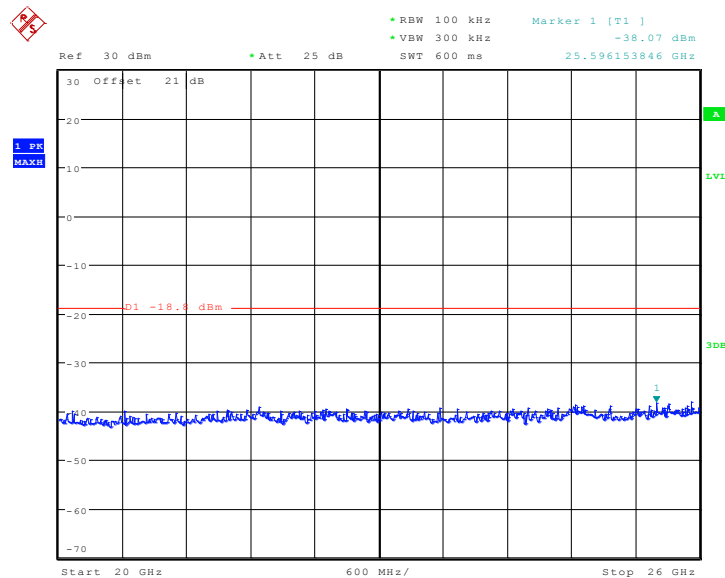
Date: 3.JUL.2013 16:16:01

Fig.A.6.1.46 Conducted Spurious Emission (802.11g, Ch11, 10 GHz-15 GHz)



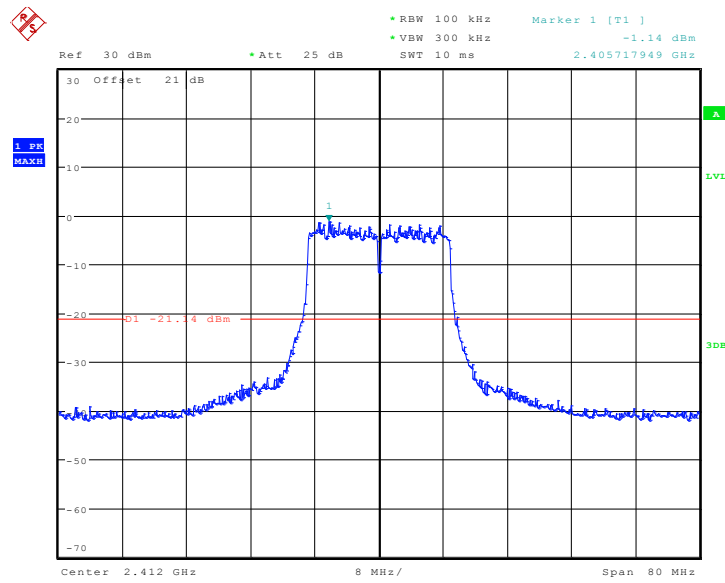
Date: 3.JUL.2013 16:16:18

Fig.A.6.1.47 Conducted Spurious Emission (802.11g, Ch11, 15 GHz-20 GHz)



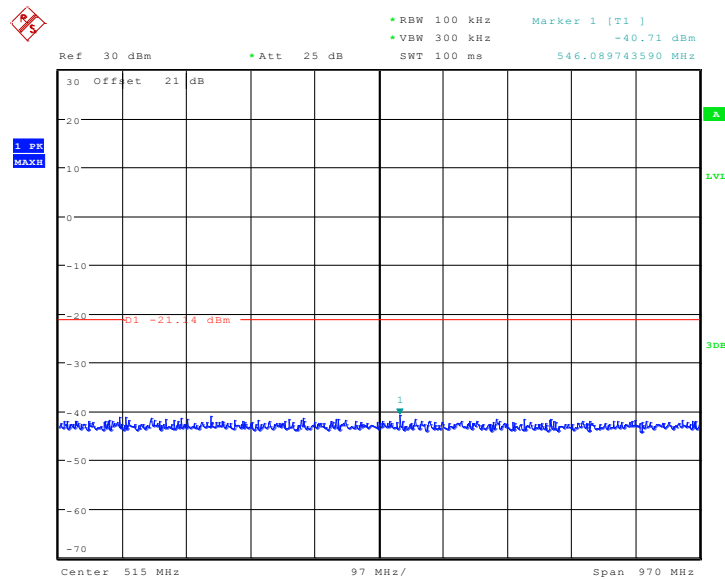
Date: 3.JUL.2013 16:16:35

Fig.A.6.1.48 Conducted Spurious Emission (802.11g, Ch11, 20 GHz-26 GHz)



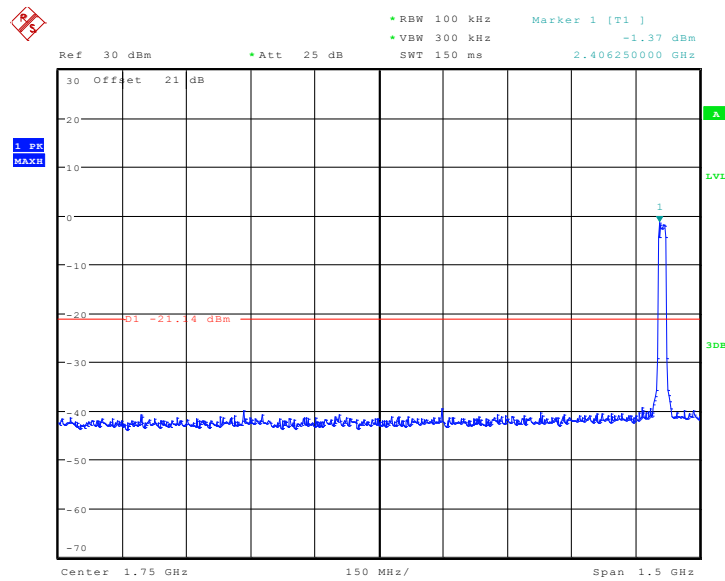
Date: 3.JUL.2013 16:18:29

Fig.A.6.1.49 Conducted Spurious Emission (802.11n-HT20, Ch1, Center Frequency)



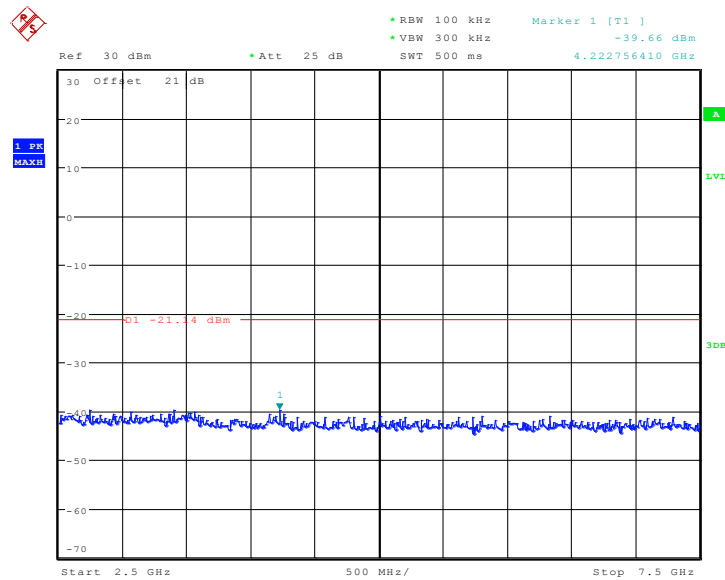
Date: 3.JUL.2013 16:18:44

Fig.A.6.1.50 Conducted Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)



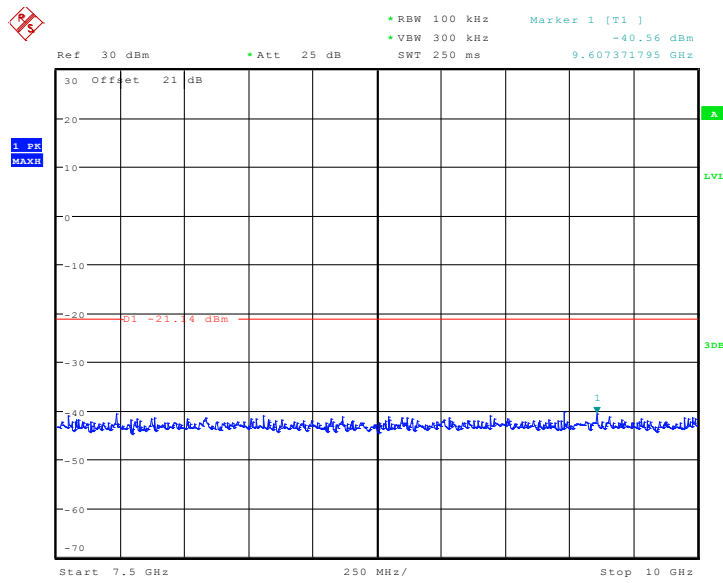
Date: 3.JUL.2013 16:19:08

Fig.A.6.1.51 Conducted Spurious Emission (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)



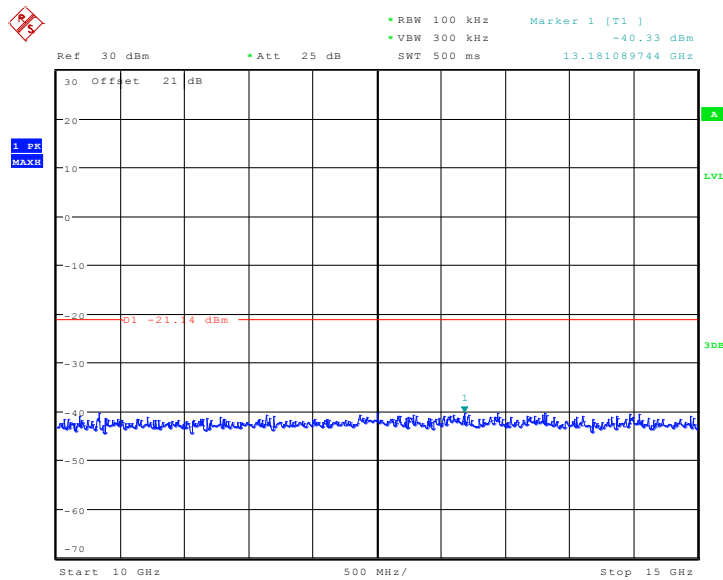
Date: 3.JUL.2013 16:19:26

Fig.A.6.1.52 Conducted Spurious Emission (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)



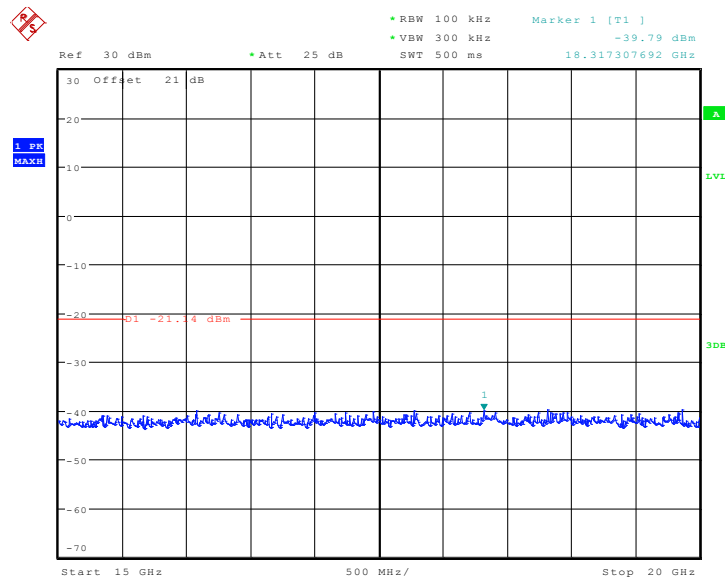
Date: 3.JUL.2013 16:19:41

Fig.A.6.1.53 Conducted Spurious Emission (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)



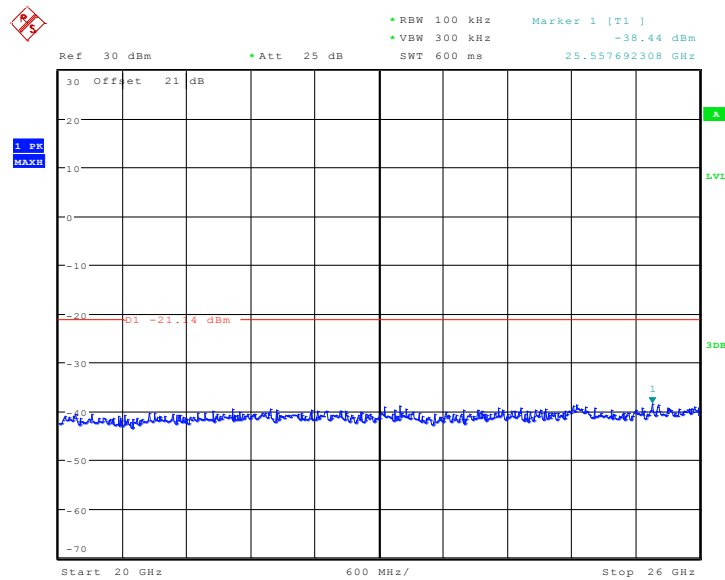
Date: 3.JUL.2013 16:19:57

Fig.A.6.1.54 Conducted Spurious Emission (802.11n-HT20, Ch1, 10 GHz-15 GHz)



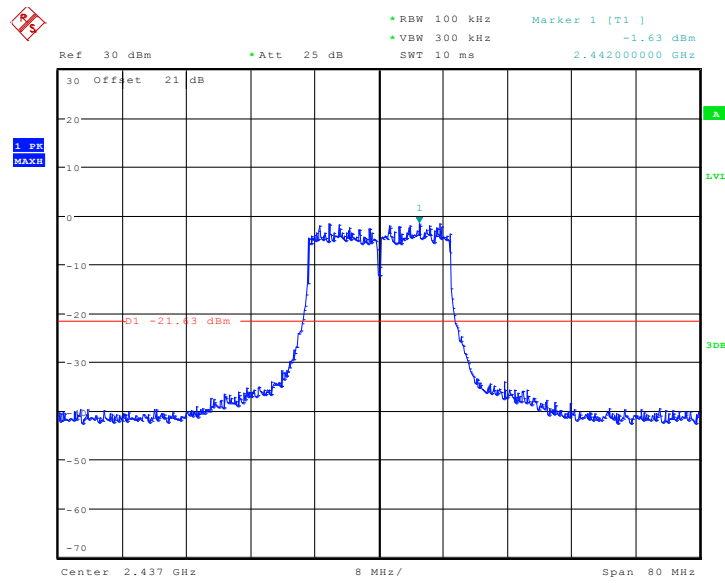
Date: 3.JUL.2013 16:20:11

Fig.A.6.1.55 Conducted Spurious Emission (802.11n-HT20, Ch1, 15 GHz-20 GHz)



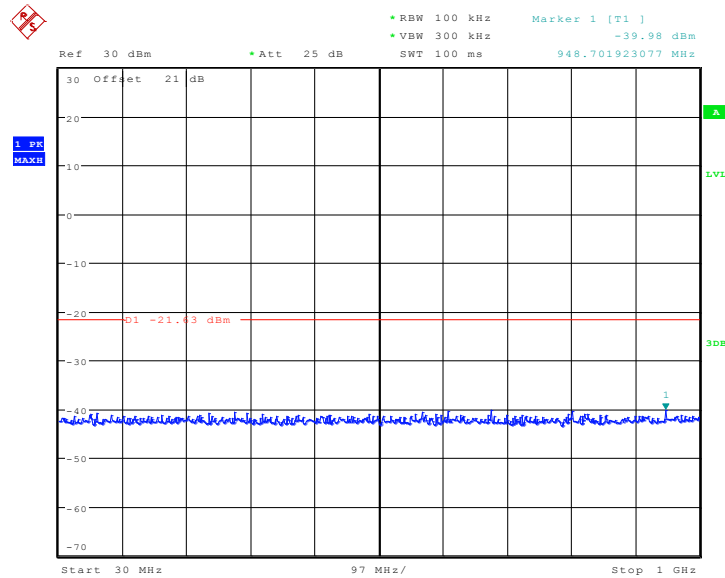
Date: 3.JUL.2013 16:20:28

Fig.A.6.1.56 Conducted Spurious Emission (802.11n-HT20, Ch1, 20 GHz-26 GHz)



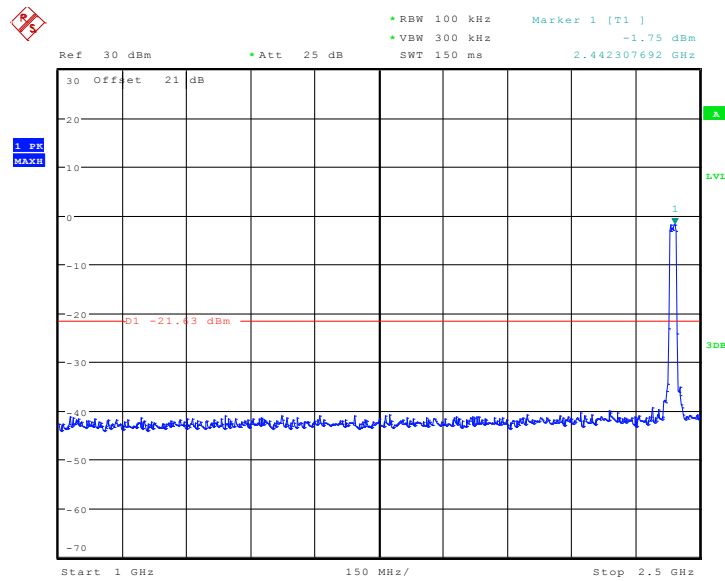
Date: 3.JUL.2013 16:35:15

Fig.A.6.1.57 Conducted Spurious Emission (802.11n-HT20, Ch6, Center Frequency)



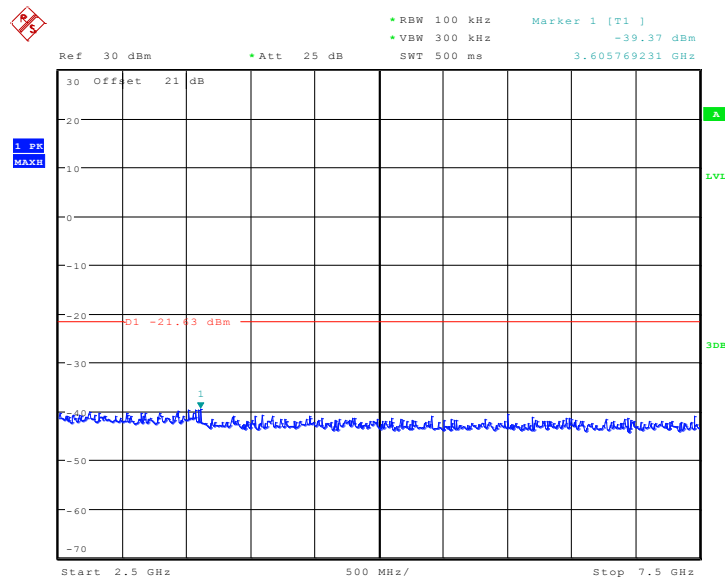
Date: 3.JUL.2013 16:36:06

Fig.A.6.1.58 Conducted Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)



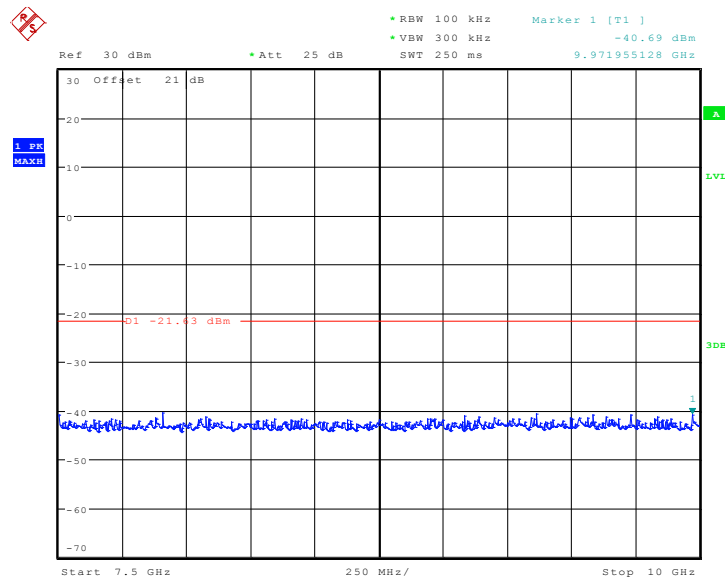
Date: 3.JUL.2013 16:36:23

Fig.A.6.1.59 Conducted Spurious Emission (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)



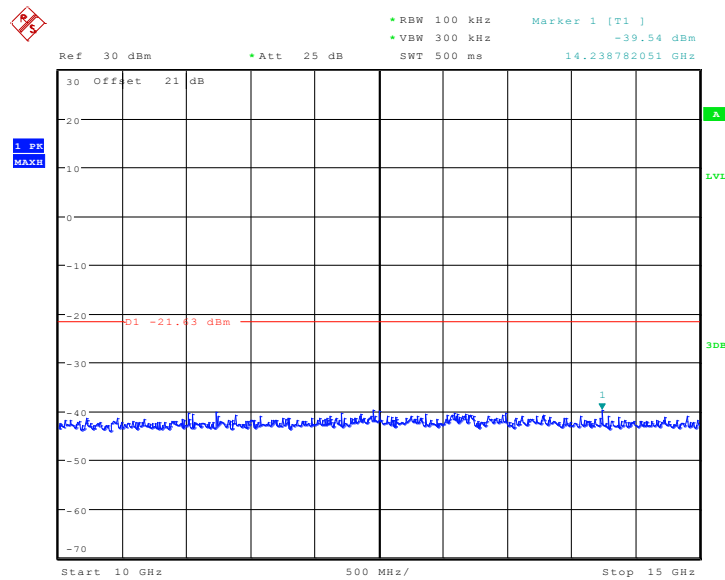
Date: 3.JUL.2013 16:36:41

Fig.A.6.1.60 Conducted Spurious Emission (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)



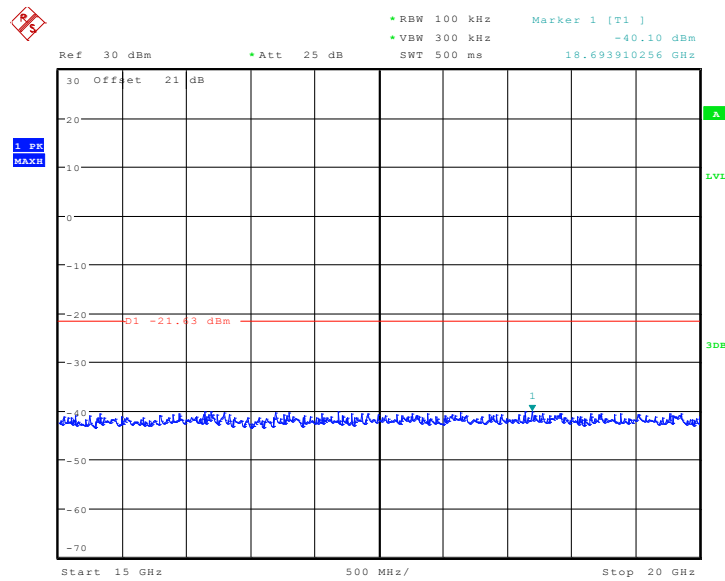
Date: 3.JUL.2013 16:37:00

Fig.A.6.1.61 Conducted Spurious Emission (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)



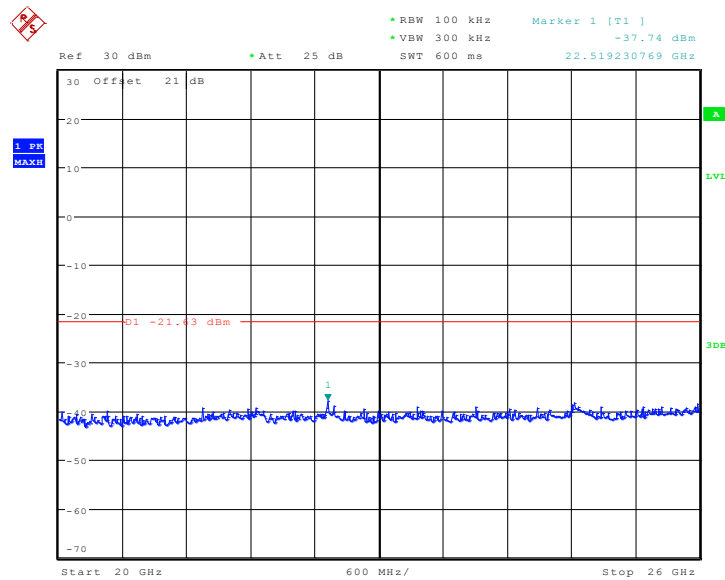
Date: 3.JUL.2013 16:37:16

Fig.A.6.1.62 Conducted Spurious Emission (802.11n-HT20, Ch6, 10 GHz-15 GHz)



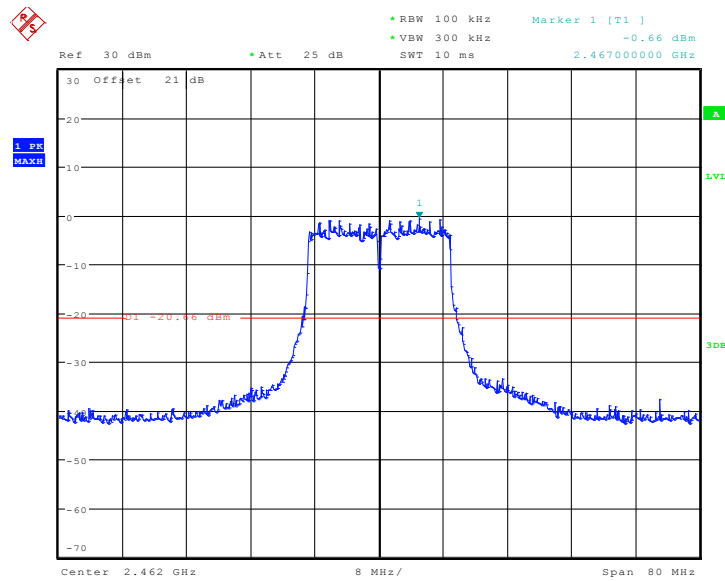
Date: 3.JUL.2013 16:37:34

Fig.A.6.1.63 Conducted Spurious Emission (802.11n-HT20, Ch6, 15 GHz-20 GHz)



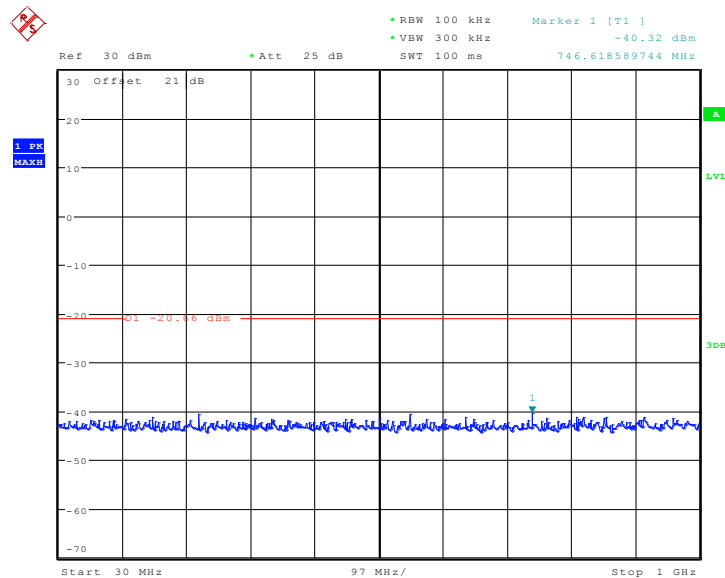
Date: 3.JUL.2013 16:37:51

Fig.A.6.1.64 Conducted Spurious Emission (802.11n-HT20, Ch6, 20 GHz-26 GHz)



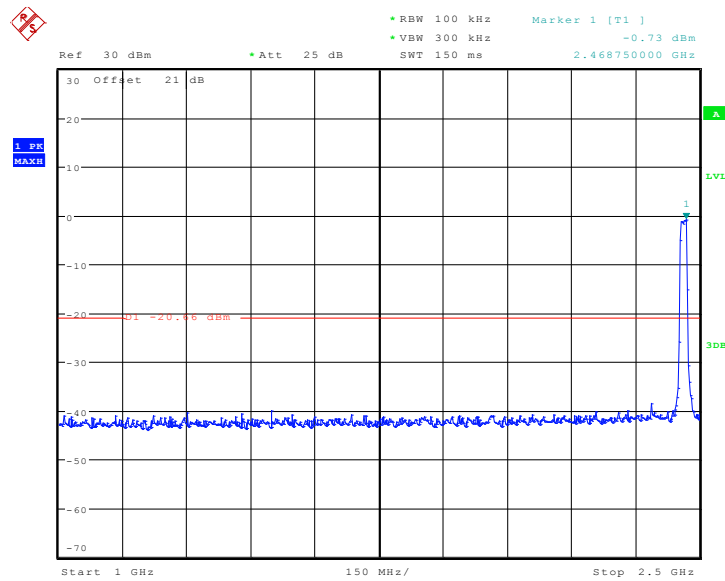
Date: 3.JUL.2013 16:38:47

Fig.A.6.1.65 Conducted Spurious Emission (802.11n-HT20, Ch11, Center Frequency)



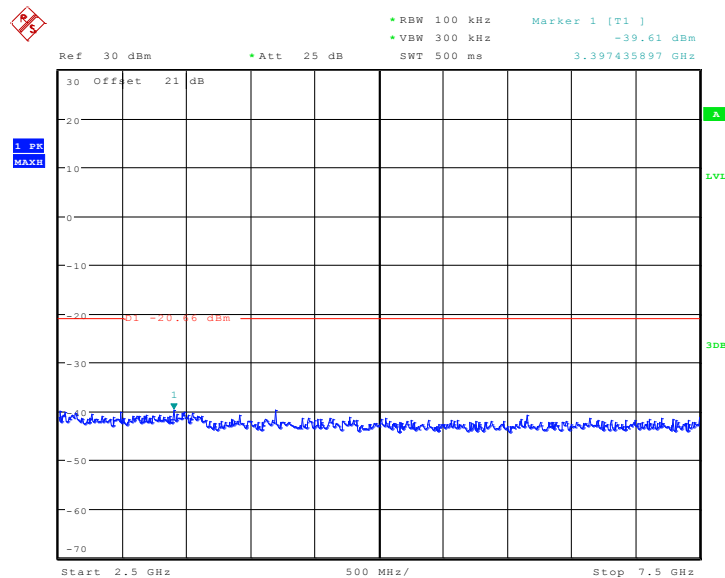
Date: 3.JUL.2013 16:39:01

Fig.A.6.1.66 Conducted Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)



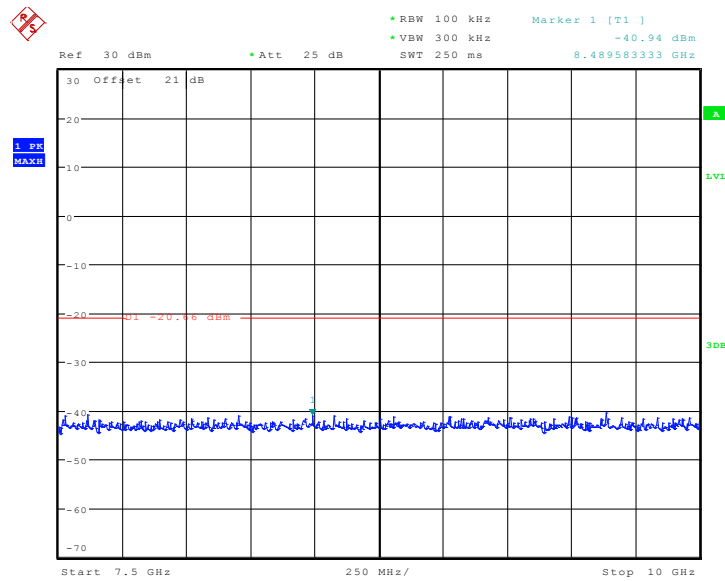
Date: 3.JUL.2013 16:39:24

Fig.A.6.1.67 Conducted Spurious Emission (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)



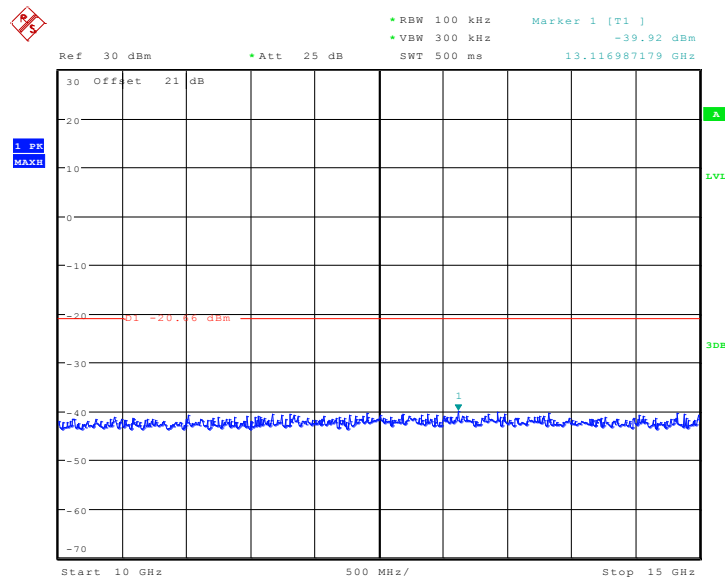
Date: 3.JUL.2013 16:39:44

Fig.A.6.1.68 Conducted Spurious Emission (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)



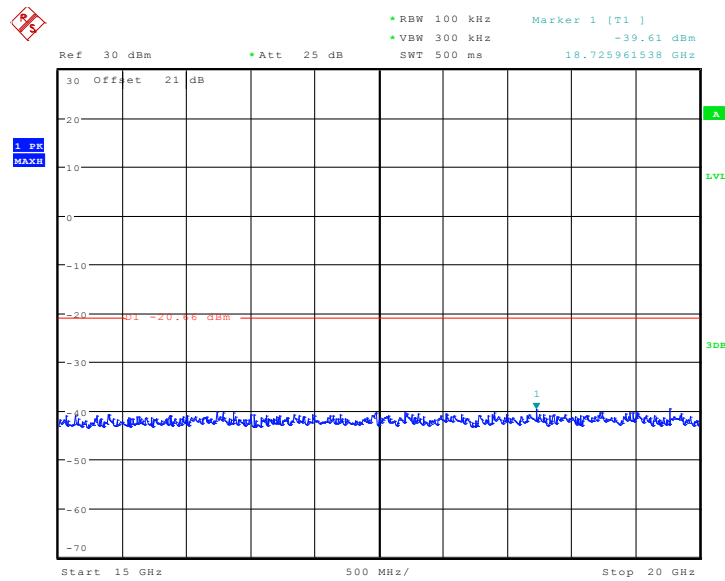
Date: 3.JUL.2013 16:40:02

Fig.A.6.1.69 Conducted Spurious Emission (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)



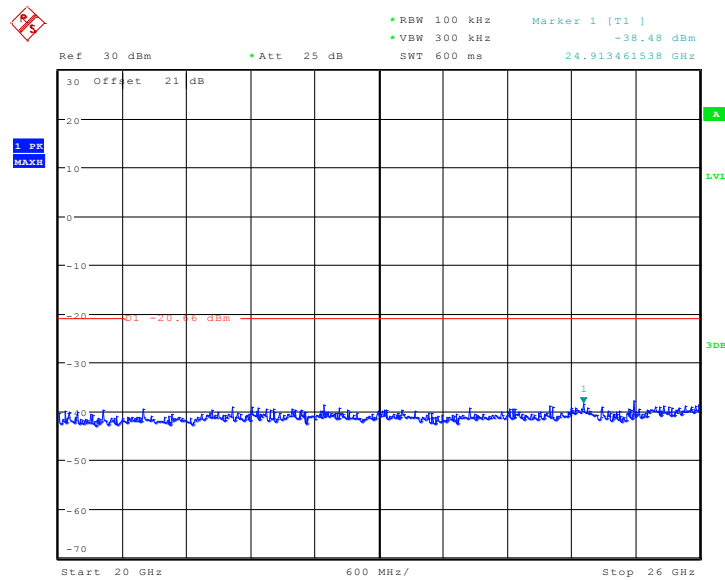
Date: 3.JUL.2013 16:40:21

Fig.A.6.1.70 Conducted Spurious Emission (802.11n-HT20, Ch11, 10 GHz-15 GHz)



Date: 3.JUL.2013 16:40:39

Fig.A.6.1.71 Conducted Spurious Emission (802.11n-HT20, Ch11, 15 GHz-20 GHz)



Date: 3.JUL.2013 16:40:56

Fig.A.6.1.72 Conducted Spurious Emission (802.11n-HT20, Ch11, 20 GHz-26 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	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 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

EUT ID:EUT1

Modulation type and data rate tested:

802.11b	802.11g	802.11n-HT20
11Mbps(CCK)	48Mbps(OFDM)	MCS6(OFDM)

Measurement Results:

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.45GHz	Fig.A.6.2.1	P
	1	30 MHz ~1 GHz	Fig.A.6.2.2	P
		1 GHz ~ 3 GHz	Fig.A.6.2.3	P
		3 GHz ~ 18 GHz	Fig.A.6.2.4	P
	6	30 MHz ~1 GHz	Fig.A.6.2.5	P
		1 GHz ~ 3 GHz	Fig.A.6.2.6	P
		3 GHz ~ 18 GHz	Fig.A.6.2.7	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.8	P
	11	30 MHz ~1 GHz	Fig.A.6.2.9	P
		1 GHz ~ 3 GHz	Fig.A.6.2.10	P
		3 GHz ~ 18 GHz	Fig.A.6.2.11	P
	802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.12
1		30 MHz ~1 GHz	Fig.A.6.2.13	P
		1 GHz ~ 3 GHz	Fig.A.6.2.14	P
		3 GHz ~ 18 GHz	Fig.A.6.2.15	P
6		30 MHz ~1 GHz	Fig.A.6.2.16	P
		1 GHz ~ 3 GHz	Fig.A.6.2.17	P
		3 GHz ~ 18 GHz	Fig.A.6.2.18	P
Power		2.45GHz ~2.5GHz	Fig.A.6.2.19	P
11		30 MHz ~1 GHz	Fig.A.6.2.20	P
		1 GHz ~ 3 GHz	Fig.A.6.2.21	P
		3 GHz ~ 18 GHz	Fig.A.6.2.22	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.23	P
	1	30 MHz ~1 GHz	Fig.A.6.2.24	P
		1 GHz ~ 3 GHz	Fig.A.6.2.25	P
		3 GHz ~ 18 GHz	Fig.A.6.2.26	P
	6	30 MHz ~1 GHz	Fig.A.6.2.27	P
		1 GHz ~ 3 GHz	Fig.A.6.2.28	P
		3 GHz ~ 18 GHz	Fig.A.6.2.29	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.30	P
	11	30 MHz ~1 GHz	Fig.A.6.2.31	P
		1 GHz ~ 3 GHz	Fig.A.6.2.32	P
		3 GHz ~ 18 GHz	Fig.A.6.2.33	P
	/	All channels	18 GHz~ 26.5 GHz	Fig.A.6.2.34

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:

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

802.11b

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17579.250	54.6	-22.8	42.7	34.675	VERTICAL
17219.250	54.3	-23.7	43.0	34.943	HORIZONTAL
17670.750	54.2	-22.8	42.7	34.371	HORIZONTAL
17740.500	54.1	-22.8	42.1	34.861	VERTICAL
17436.000	54.1	-23.7	42.7	35.083	VERTICAL
17685.750	53.9	-22.8	42.3	34.401	HORIZONTAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17450.250	54.4	-23.7	42.6	35.523	VERTICAL
17220.750	54.3	-23.7	43.0	34.943	HORIZONTAL
17436.000	54.1	-23.7	42.7	35.083	HORIZONTAL
17621.250	53.9	-22.8	42.8	33.925	HORIZONTAL
17447.250	53.9	-23.7	42.7	34.883	VERTICAL
17695.500	53.9	-22.8	42.3	34.401	HORIZONTAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17760.000	54.2	-22.8	42.2	34.871	HORIZONTAL
17716.500	54.1	-22.8	42.8	34.111	HORIZONTAL
17025.000	54.0	-23.9	43.6	34.230	HORIZONTAL
17569.500	54.0	-22.8	42.3	34.525	HORIZONTAL
17898.000	53.9	-22.9	42.5	34.293	VERTICAL
17484.750	53.8	-22.8	43.0	33.545	VERTICAL

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17747.250	55.2	-22.8	42.1	35.961	VERTICAL
17518.500	54.3	-22.8	42.8	34.315	VERTICAL
17655.750	54.1	-22.8	42.7	34.271	VERTICAL
17113.500	54.0	-23.9	42.6	35.280	HORIZONTAL
17194.500	53.9	-23.7	43.1	34.463	VERTICAL
17865.000	53.8	-22.9	42.7	33.953	HORIZONTAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17671.500	54.9	-22.8	42.7	35.071	HORIZONTAL
17502.000	54.3	-22.8	42.8	34.315	HORIZONTAL
17960.250	54.1	-22.9	42.7	34.283	HORIZONTAL
17736.000	54.0	-22.8	42.1	34.761	HORIZONTAL
17487.750	53.9	-22.8	43.0	33.645	VERTICAL
17957.250	53.9	-22.9	42.7	34.083	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17885.250	54.4	-22.9	42.5	34.793	VERTICAL
17545.500	54.3	-22.8	42.9	34.155	VERTICAL
17763.000	54.2	-22.8	42.2	34.871	HORIZONTAL
17403.000	54.0	-23.7	42.7	35.013	VERTICAL
17421.750	54.0	-23.7	42.7	35.013	HORIZONTAL
17745.750	53.7	-22.8	42.1	34.461	VERTICAL

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17963.250	54.4	-22.9	42.7	34.583	VERTICAL
17386.500	54.3	-23.7	42.8	35.223	VERTICAL
17619.750	54.3	-22.8	42.8	34.325	VERTICAL
17460.000	54.1	-22.8	42.6	34.285	VERTICAL
17016.000	54.1	-23.9	43.2	34.800	VERTICAL
17553.000	53.8	-22.8	42.3	34.325	HORIZONTAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17457.750	54.9	-23.7	42.6	36.023	VERTICAL
17442.750	54.6	-23.7	42.7	35.583	VERTICAL
17698.500	54.4	-22.8	42.3	34.901	HORIZONTAL
17769.750	54.4	-22.8	42.2	35.071	VERTICAL
17427.000	54.3	-23.7	42.7	35.283	HORIZONTAL
17664.750	54.0	-22.8	42.7	34.171	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17614.500	54.2	-22.8	42.8	34.225	VERTICAL
17517.750	53.9	-22.8	42.8	33.915	HORIZONTAL
17472.750	53.9	-22.8	42.6	34.085	HORIZONTAL
17434.500	53.9	-23.7	42.7	34.883	HORIZONTAL
17745.000	53.8	-22.8	42.1	34.561	VERTICAL
17501.250	53.8	-22.8	42.8	33.815	VERTICAL

Test graphs as below:

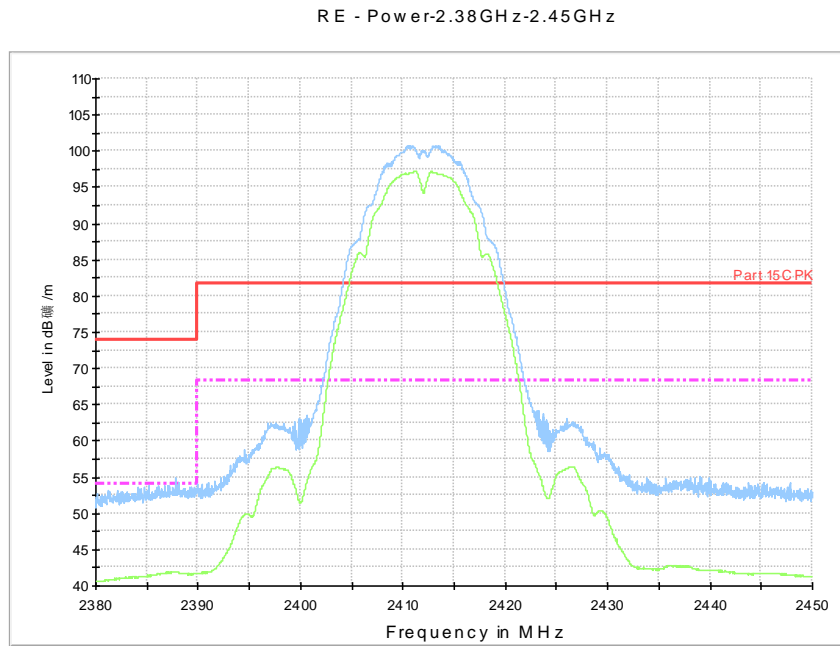


Fig.A.6.2.1 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz - 245GHz

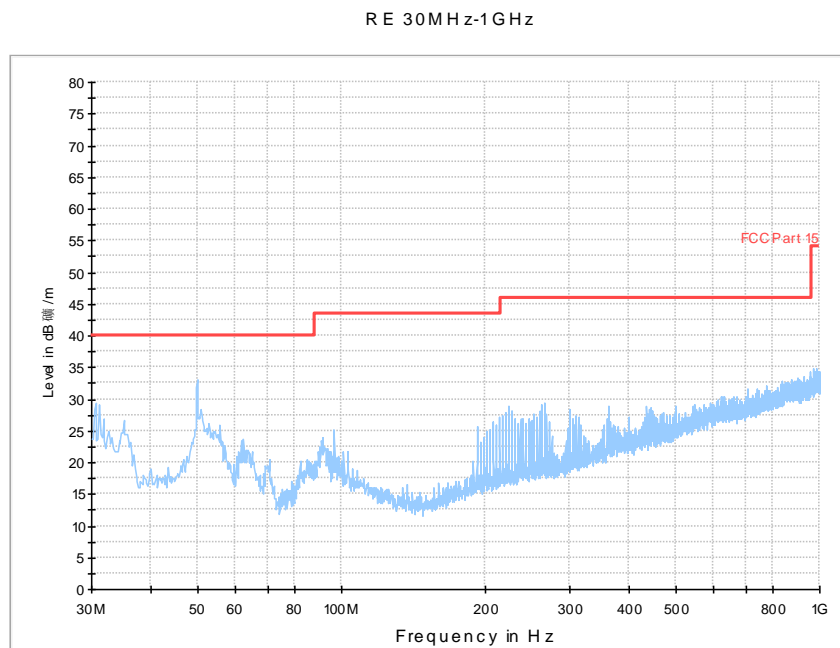


Fig.A.6.2.2 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)

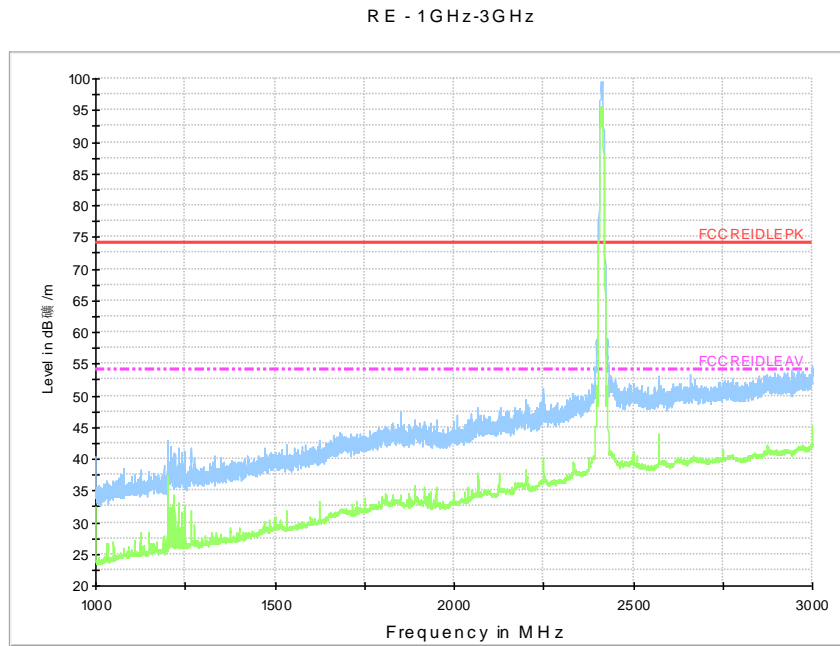


Fig.A.6.2.3 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)

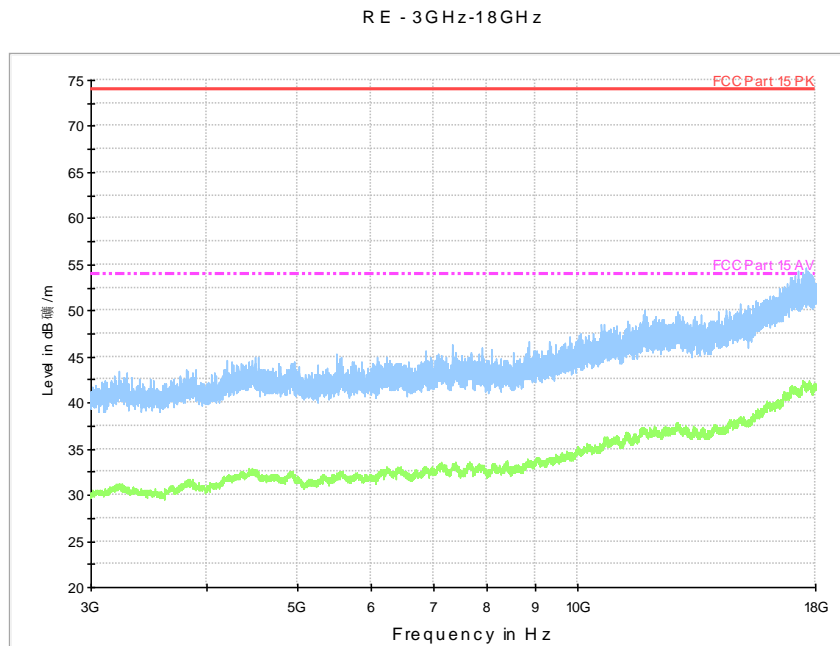


Fig.A.6.2.4 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)

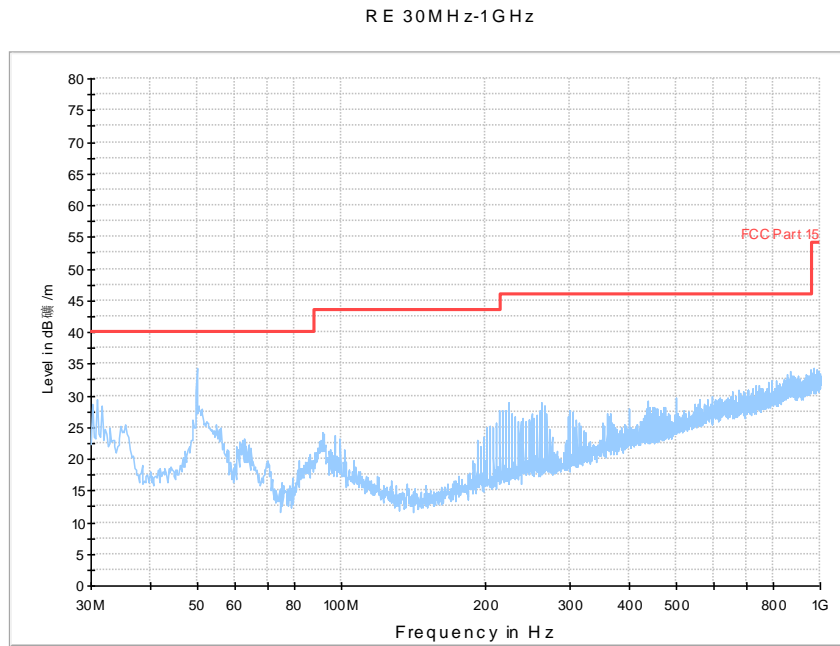


Fig.A.6.2.5 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

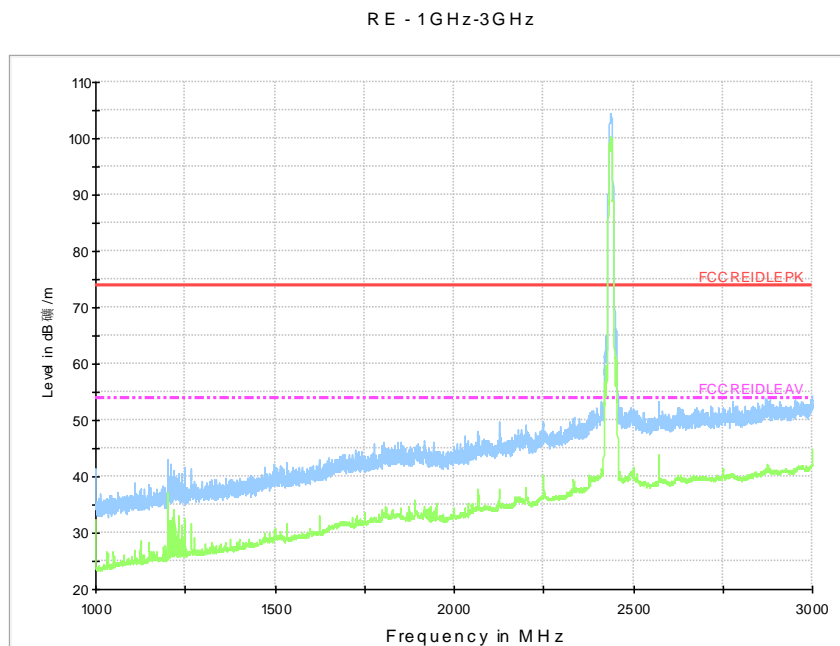


Fig.A.6.2.6 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)

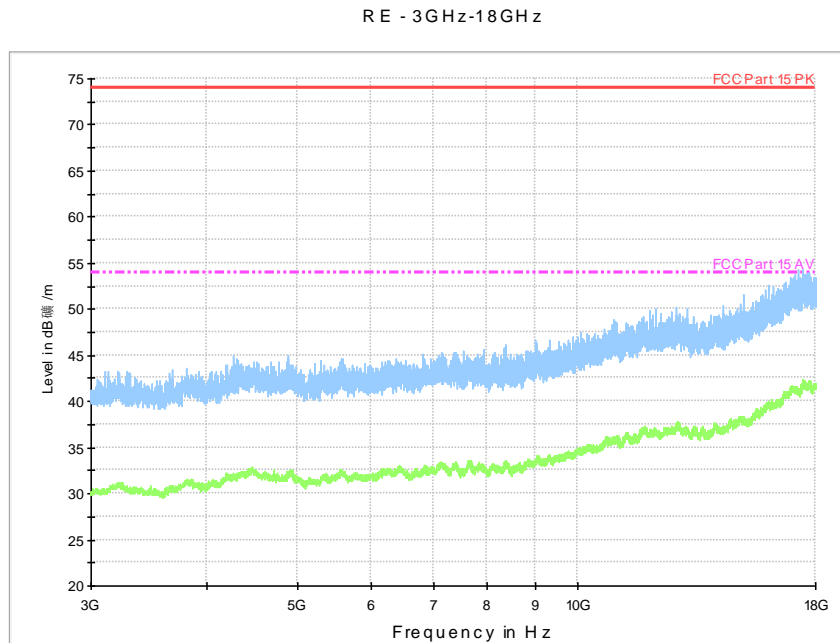


Fig.A.6.2.7 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)

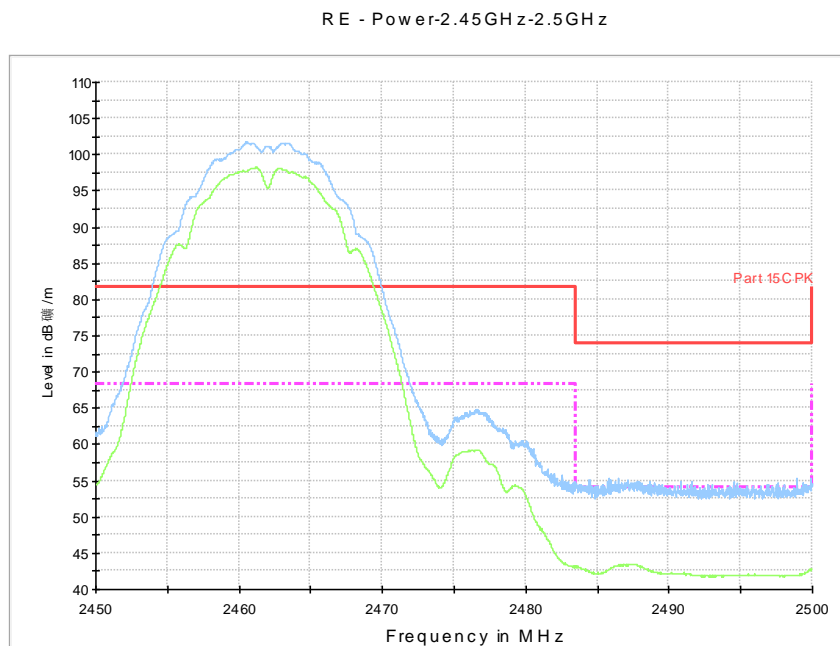


Fig.A.6.2.8 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

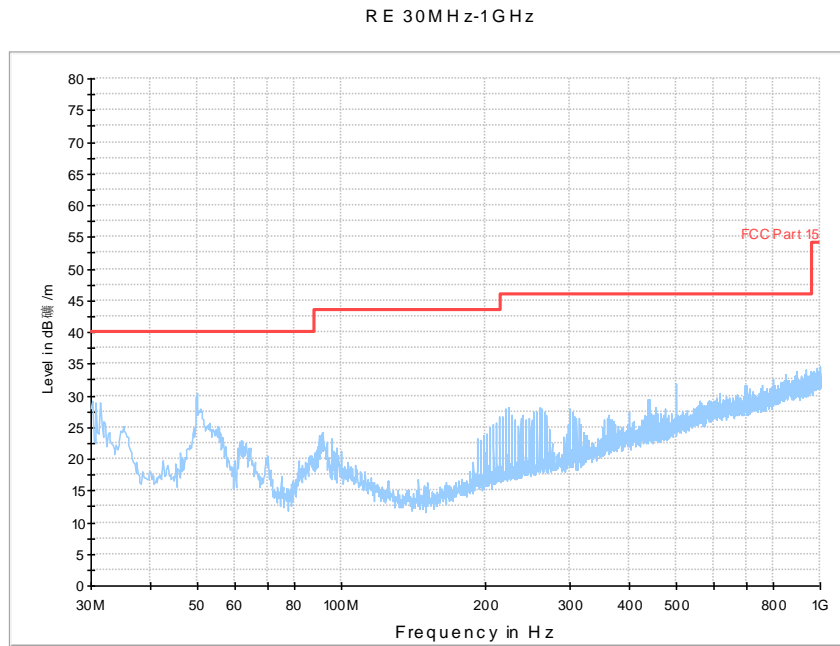


Fig.A.6.2.9 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)

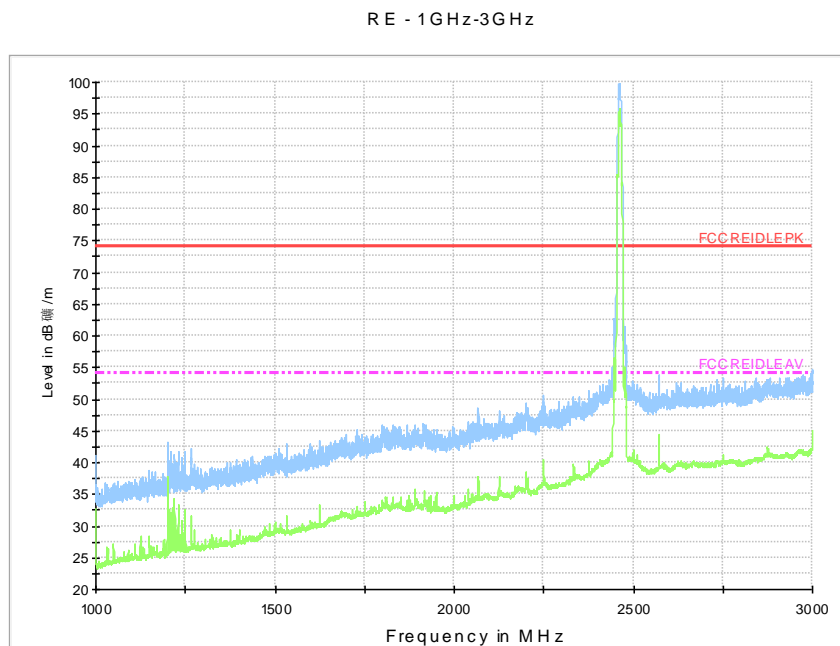


Fig.A.6.2.10 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)

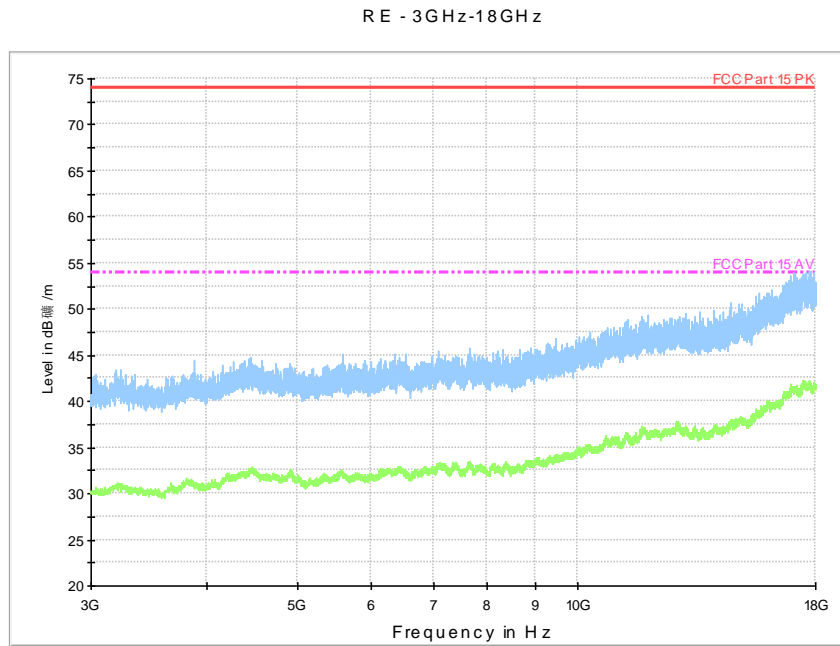


Fig.A.6.2.11 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)

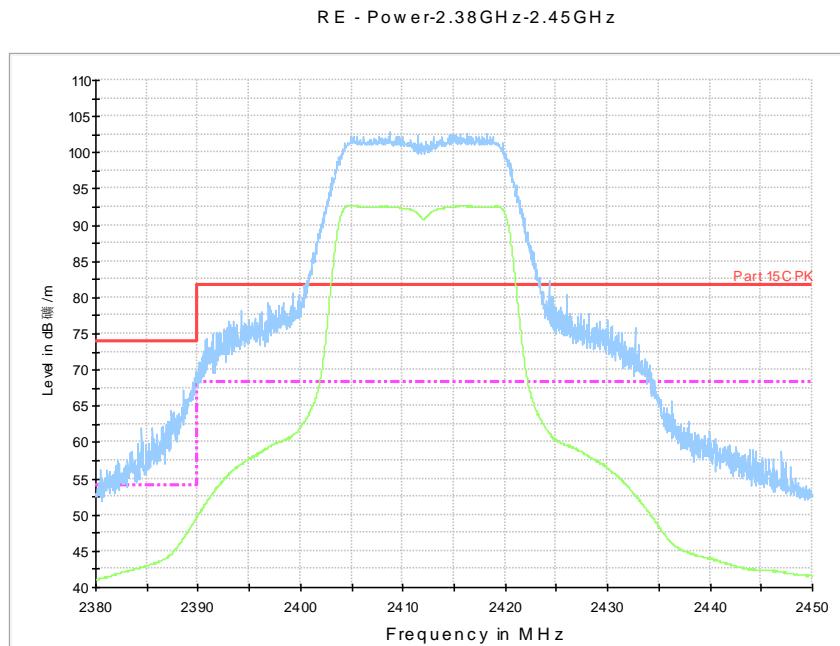


Fig.A.6.2.12 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

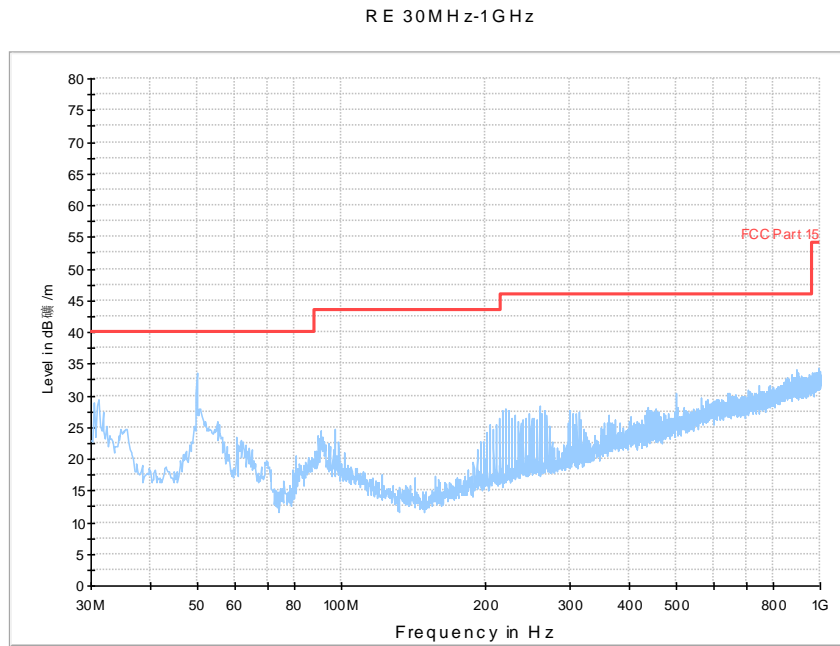


Fig.A.6.2.13 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)

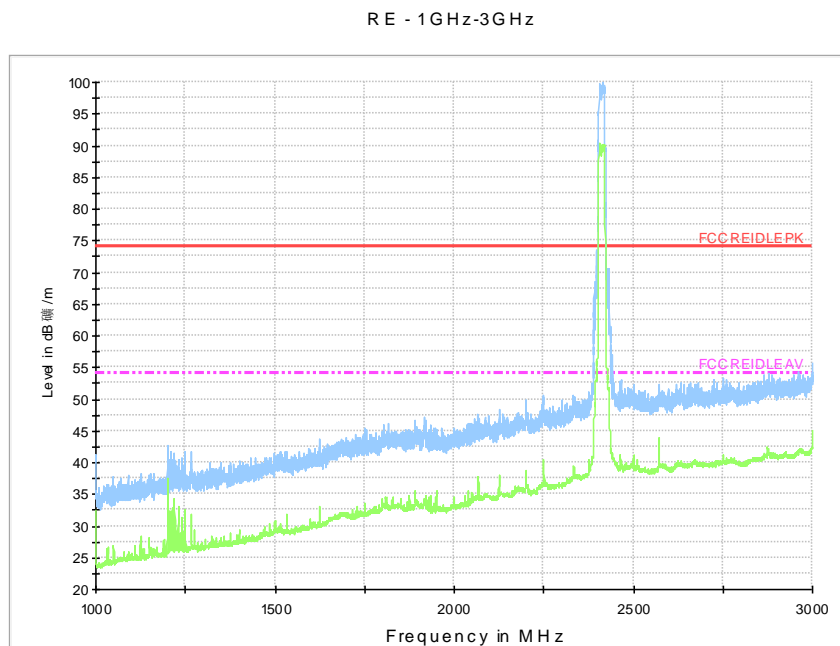


Fig.A.6.2.14 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)

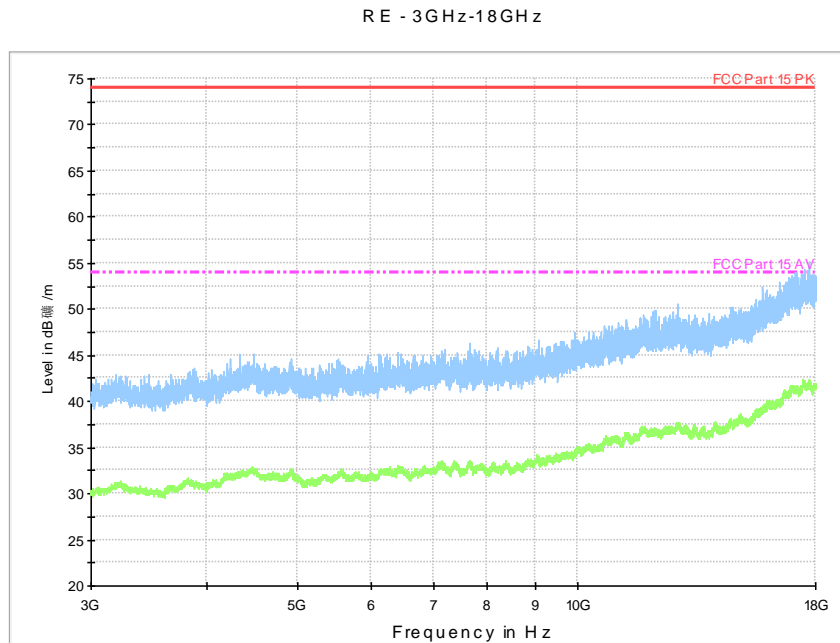


Fig.A.6.2.15 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)

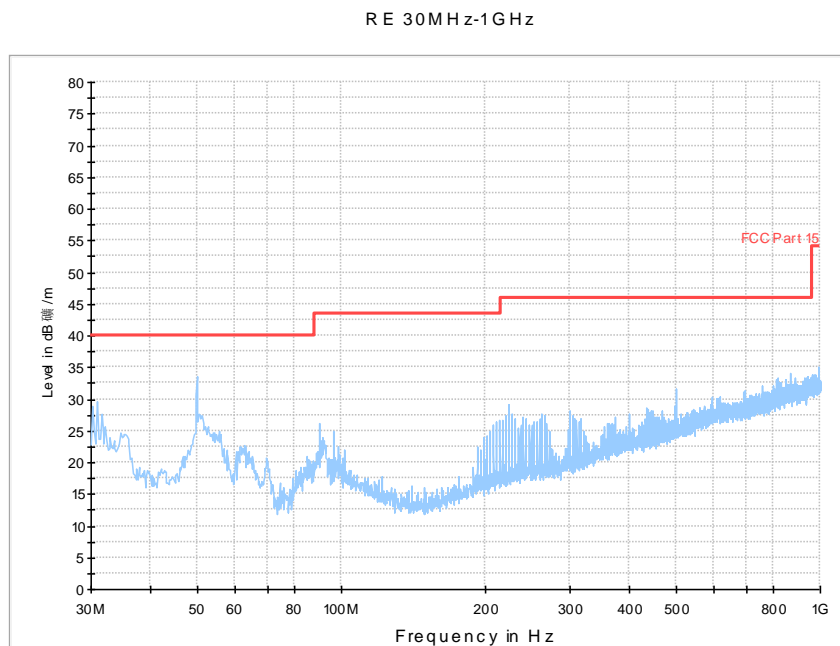


Fig.A.6.2.16 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

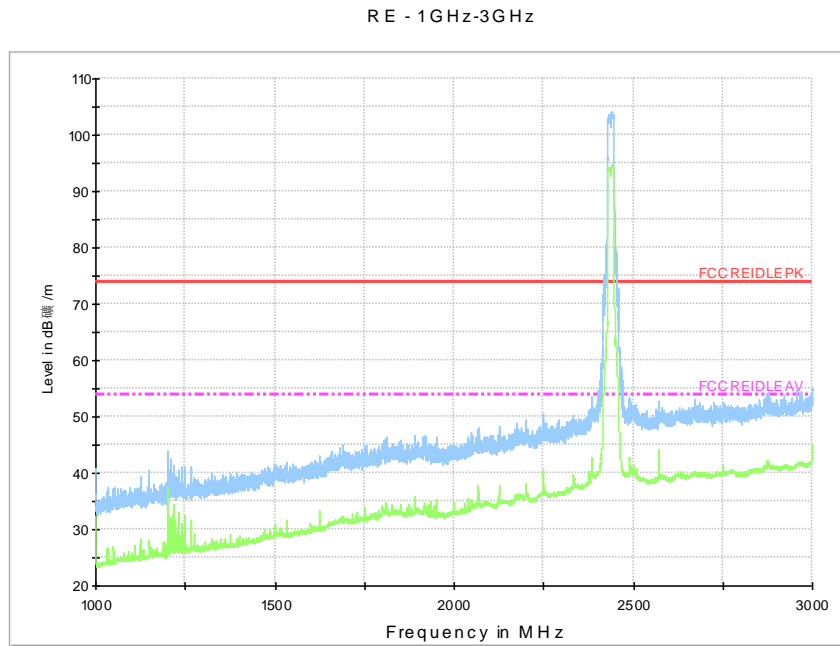


Fig.A.6.2.17 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)

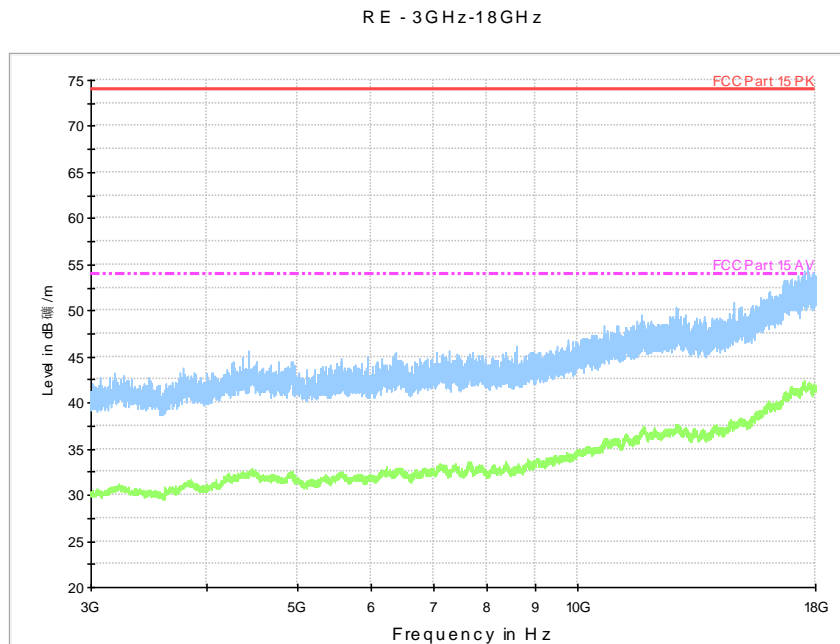


Fig.A.6.2.18 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)

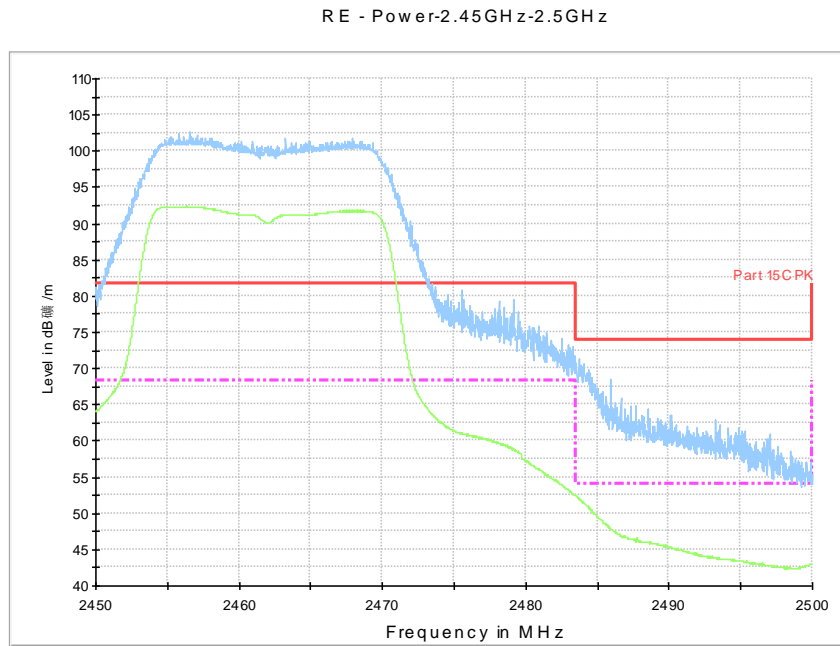


Fig.A.6.2.19 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

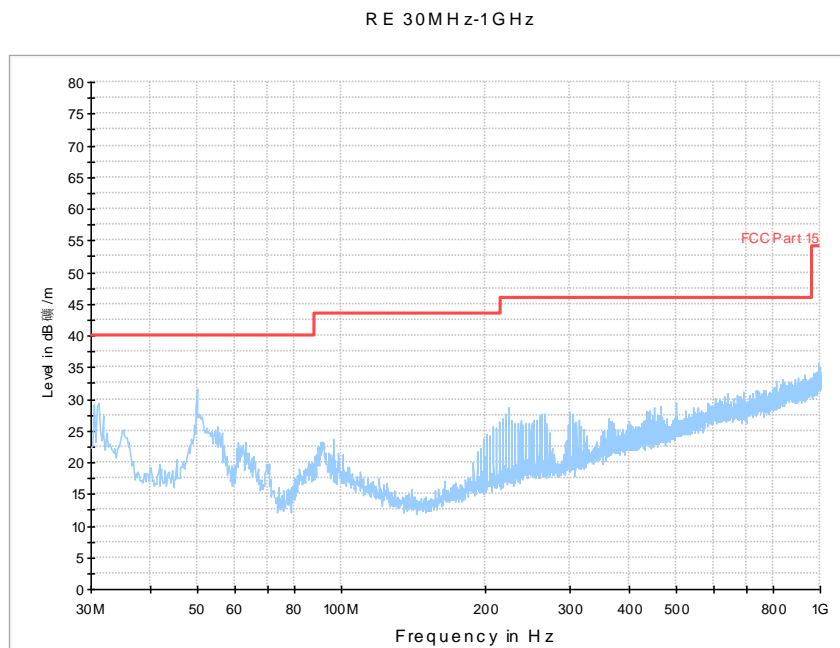


Fig.A.6.2.20 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)

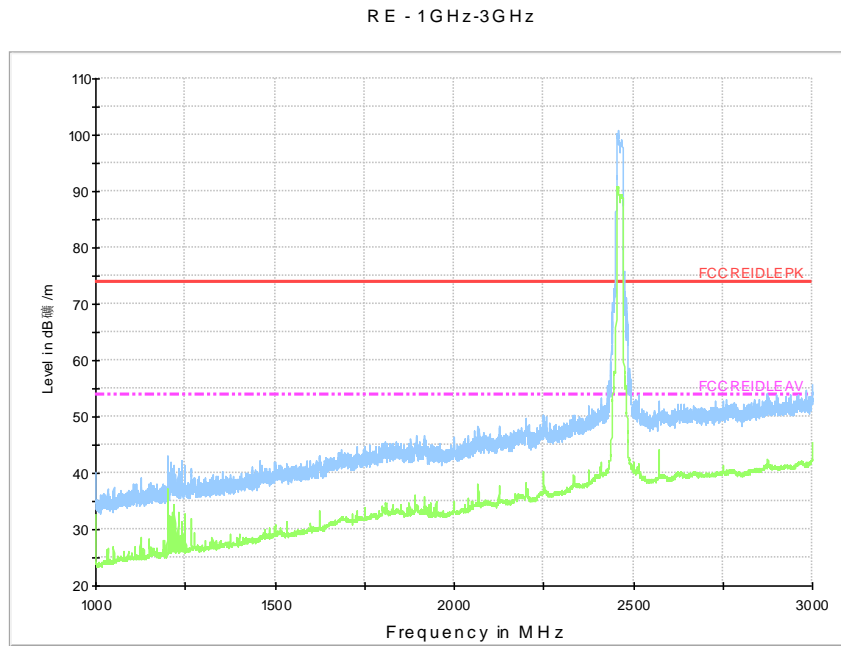


Fig.A.6.2.21 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)

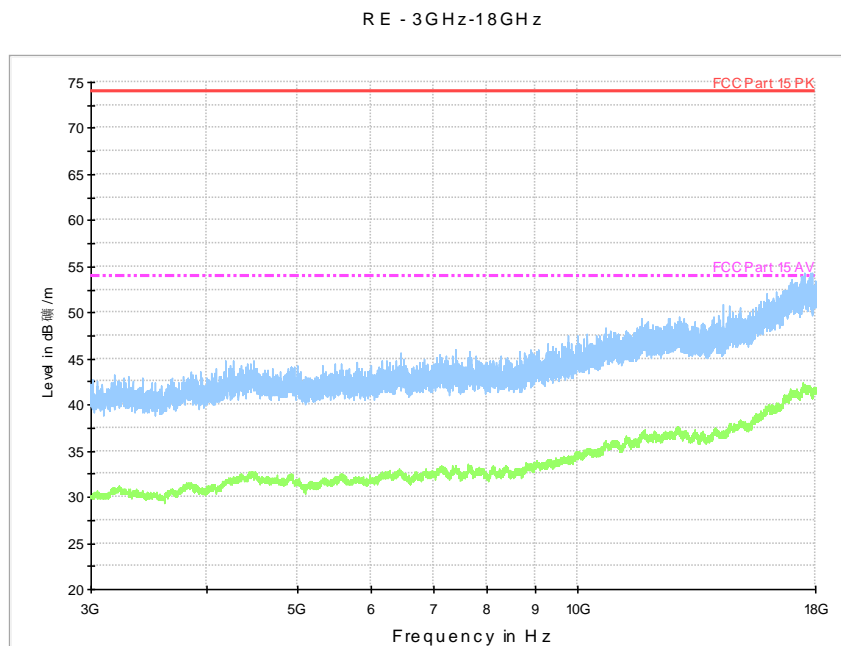


Fig.A.6.2.22 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)

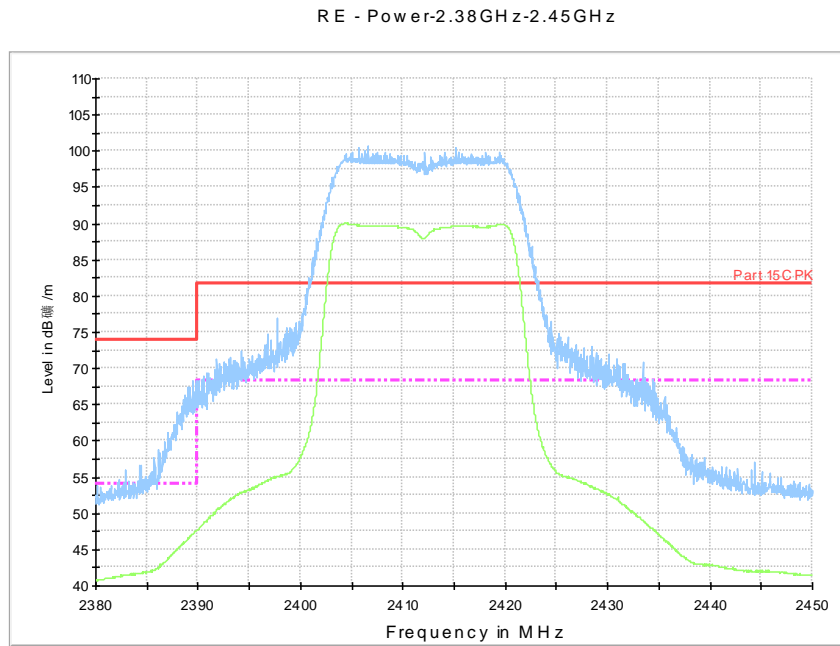


Fig.A.6.2.23 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

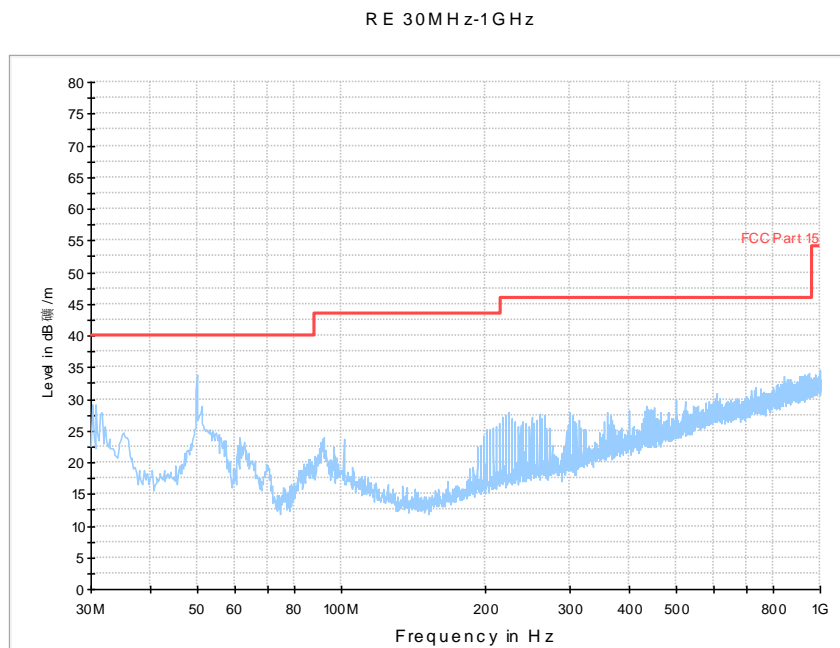


Fig.A.6.2.24 Radiated Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)

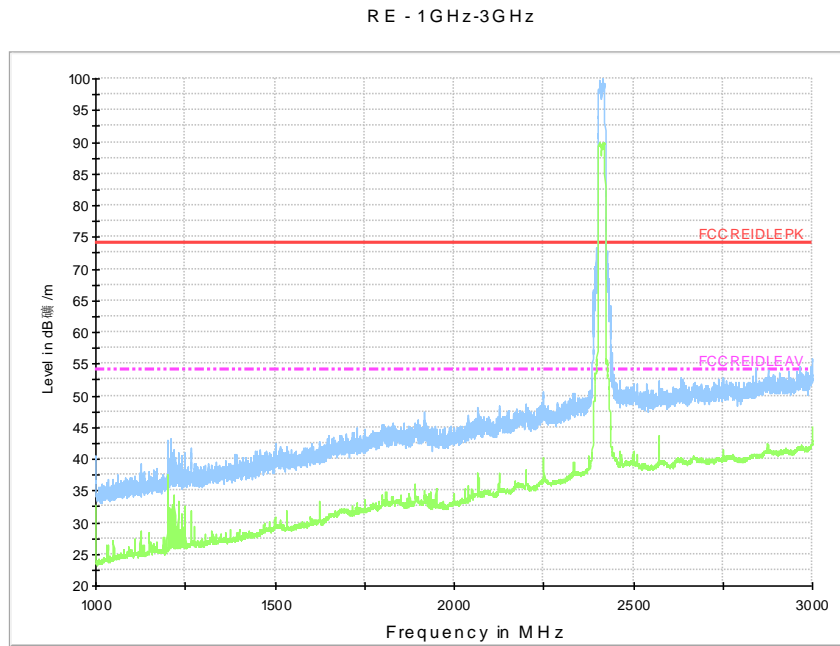


Fig.A.6.2.25 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)

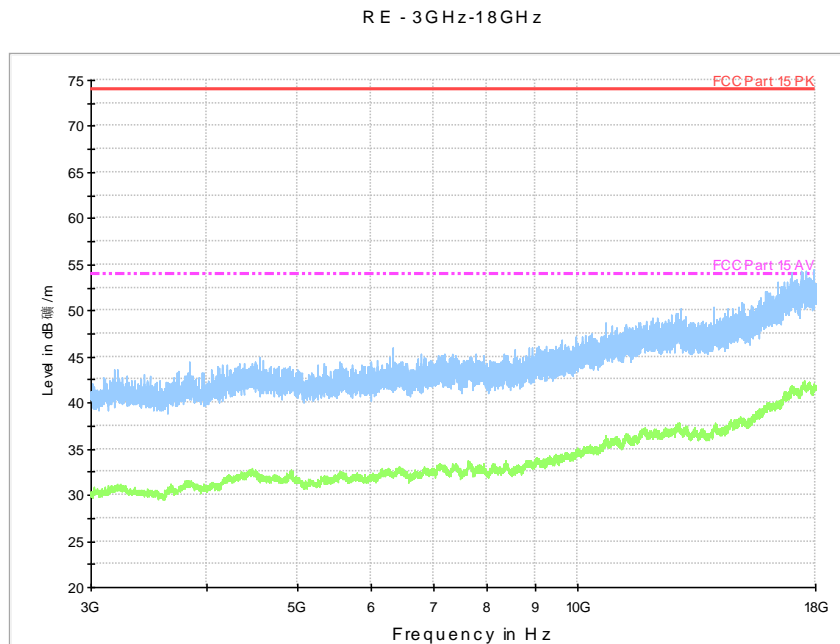


Fig.A.6.2.26 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)

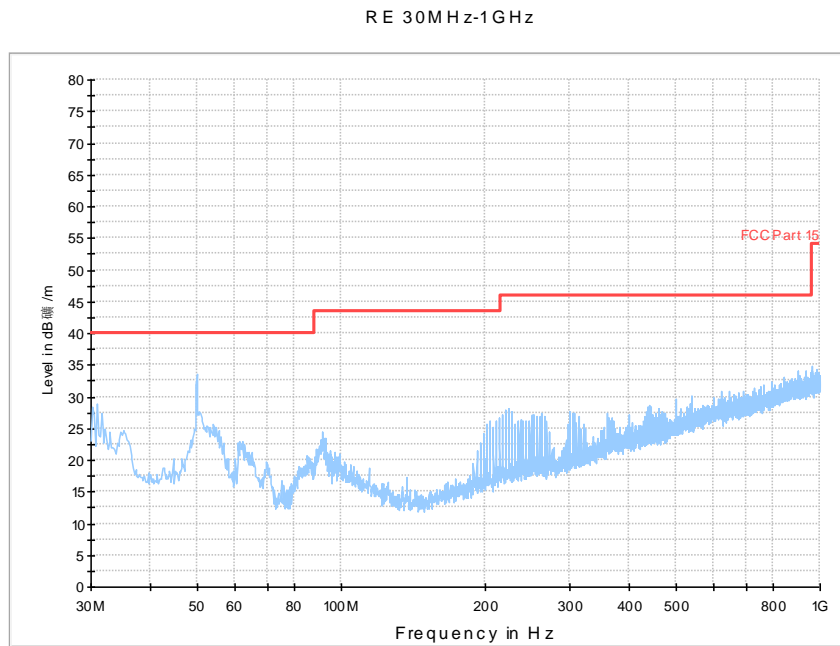


Fig.A.6.2.27 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)

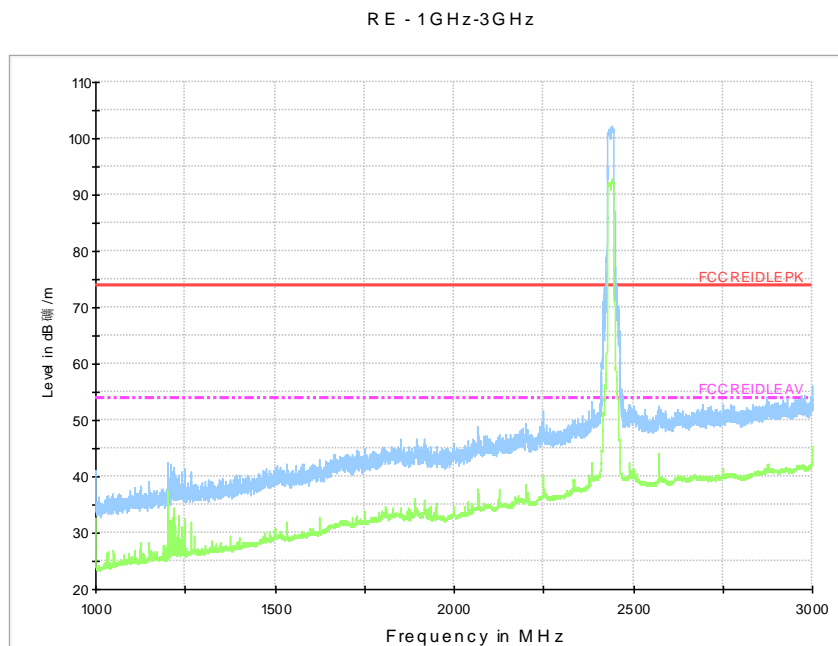


Fig.A.6.2.28 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)

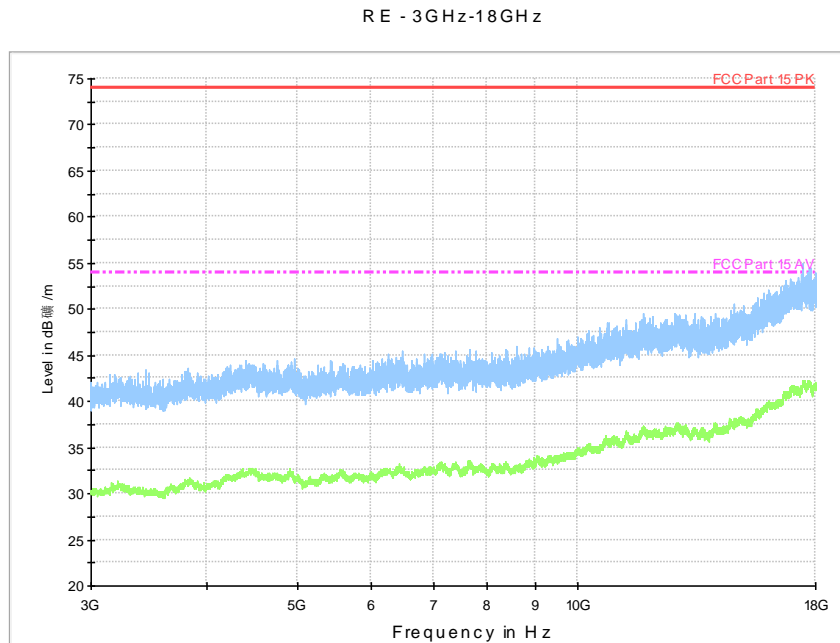


Fig.A.6.2.29 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)

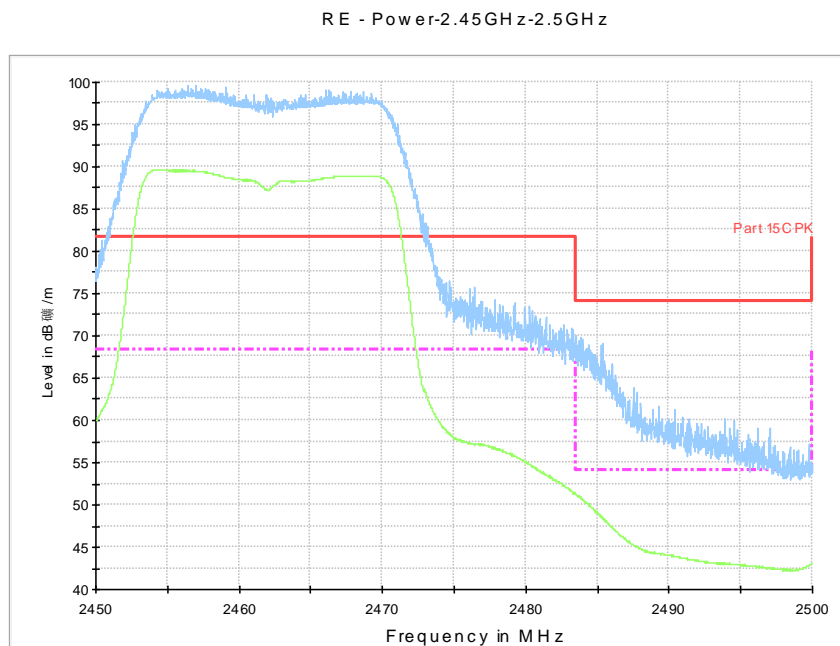


Fig.A.6.2.30 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

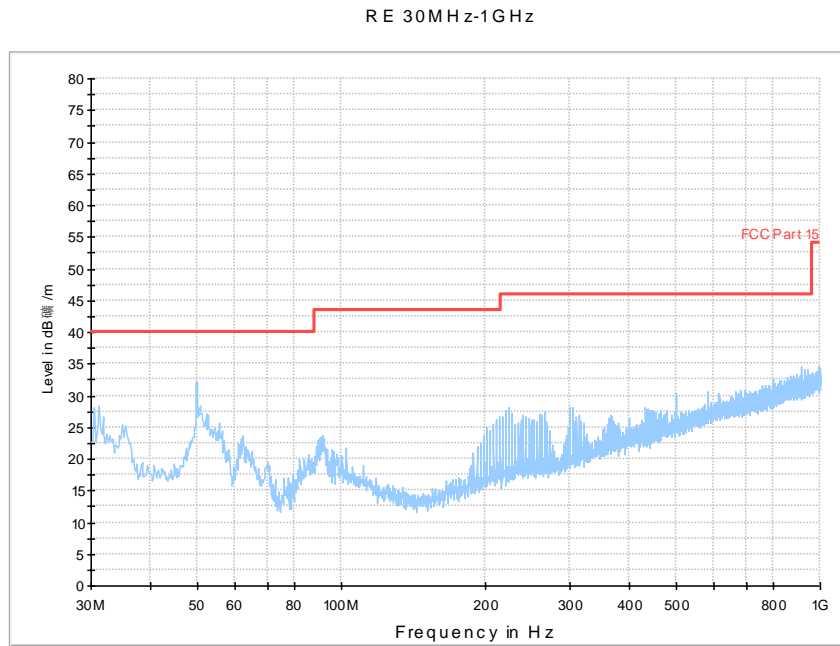


Fig.A.6.2.31 Radiated Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)

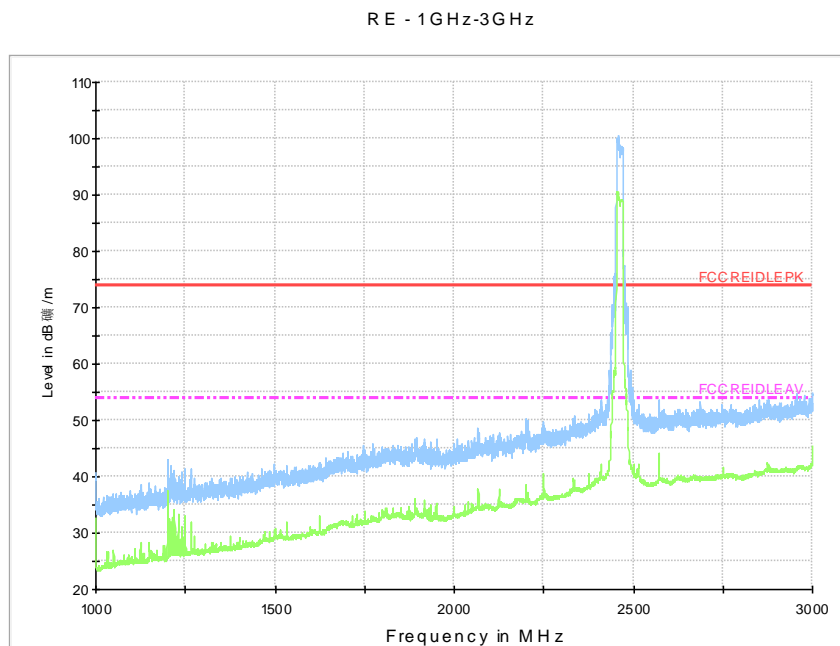


Fig.A.6.2.32 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)

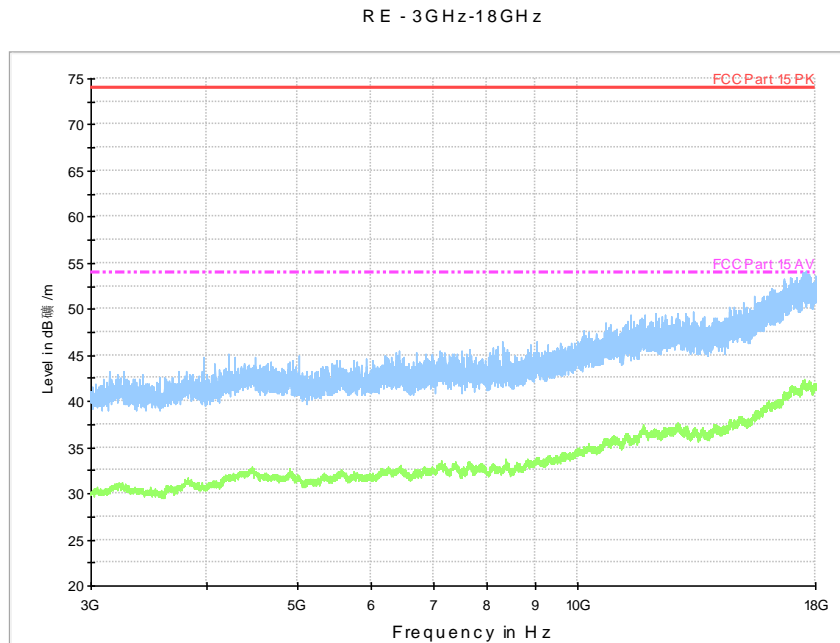


Fig.A.6.2.33 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)

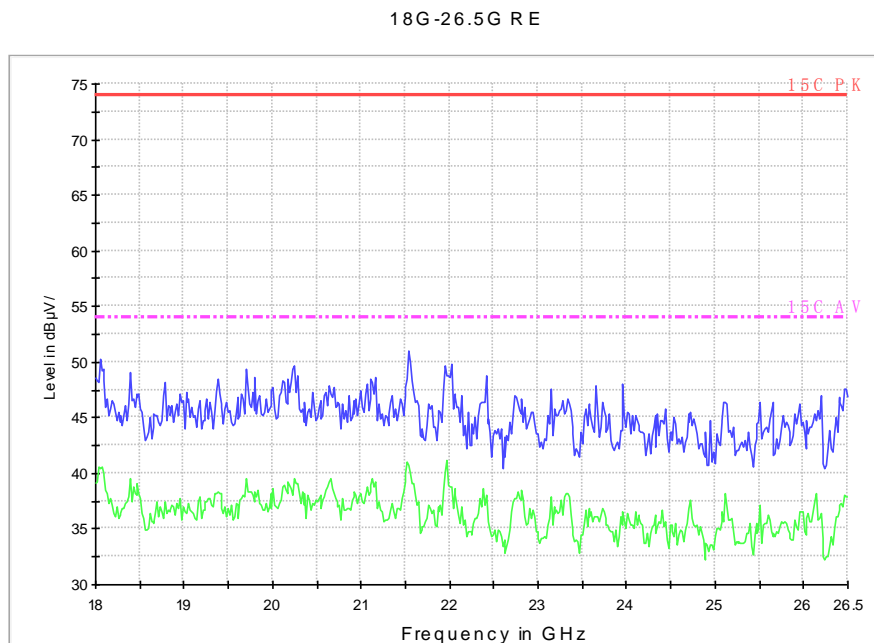


Fig.A.6.2.34 Radiated Spurious Emission (All channels): 18GHz – 26.5GHz

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 Traffic	802.11b Idle	
0.15 to 0.5	66 to 56	Fig.A.7.1	Fig.A.7.2	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 Traffic	802.11b Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1	Fig.A.7.2	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 KDB558074.

Conclusion: Pass

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

Test graphs as below:

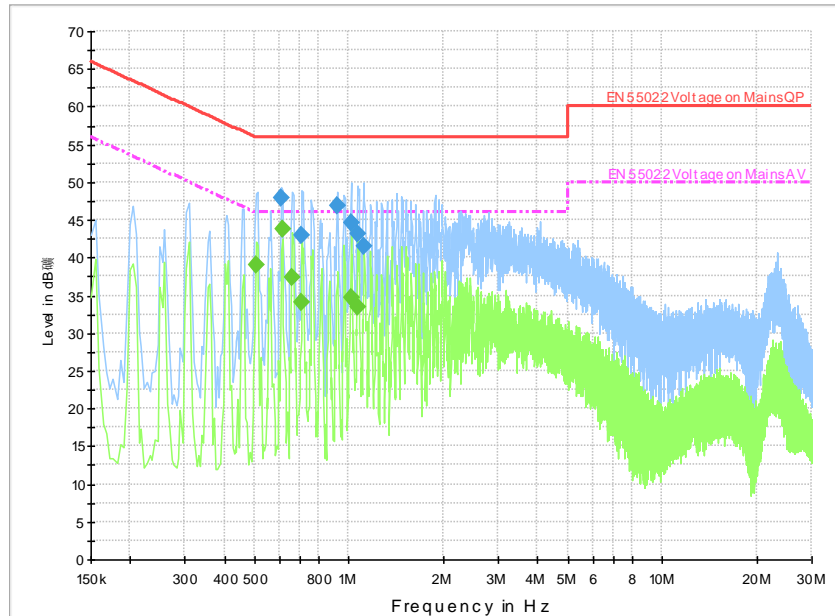


Fig.A.7.1 AC Powerline Conducted Emission-802.11b-Traffic

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.609001	48.0	GND	N	9.9	8.0	56.0
0.708001	42.9	GND	N	9.9	13.1	56.0
0.915001	47.0	GND	N	9.9	9.0	56.0
1.014001	44.6	GND	N	9.9	11.4	56.0
1.063501	43.1	GND	N	9.9	12.9	56.0
1.113001	41.4	GND	N	9.9	14.6	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.505501	39.0	GND	N	9.9	7.0	46.0
0.613501	43.8	GND	N	9.9	2.2	46.0
0.658501	37.5	GND	N	9.9	8.5	46.0
0.708001	34.1	GND	N	9.9	11.9	46.0
1.014001	34.8	GND	N	9.9	11.2	46.0
1.063501	33.4	GND	N	9.9	12.6	46.0

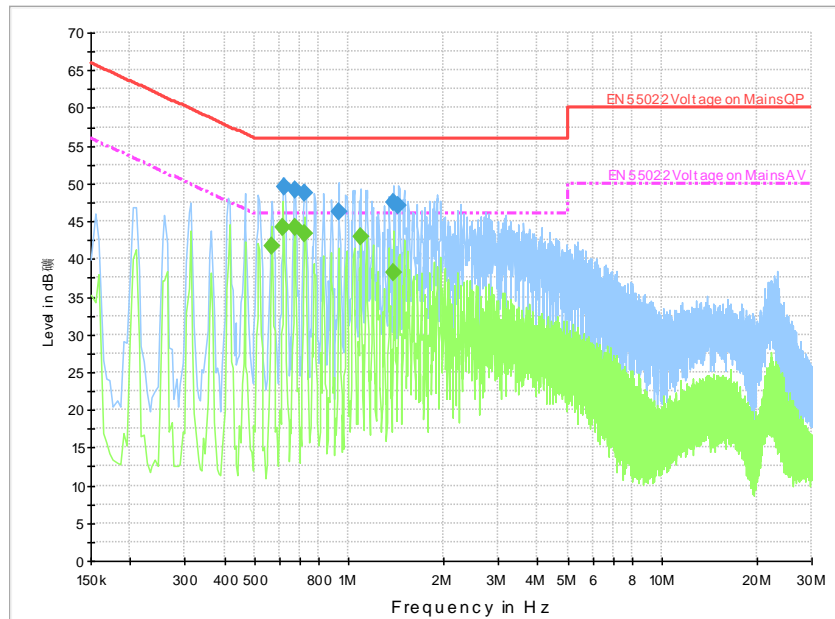


Fig.A.7.2 AC Powerline Conducted Emission-802.11b-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.622501	49.5	GND	N	9.9	6.5	56.0
0.672001	49.1	GND	N	9.9	6.9	56.0
0.721501	48.8	GND	N	9.9	7.2	56.0
0.924001	46.3	GND	N	9.9	9.7	56.0
1.392001	47.5	GND	N	9.9	8.5	56.0
1.441501	47.0	GND	N	9.9	9.0	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.568501	41.7	GND	N	9.9	4.3	46.0
0.618001	44.2	GND	N	9.9	1.8	46.0
0.672001	44.2	GND	N	9.9	1.8	46.0
0.721501	43.3	GND	N	9.9	2.7	46.0
1.086001	42.9	GND	N	9.9	3.1	46.0
1.392001	38.1	GND	N	9.9	7.9	46.0

*** END OF REPORT BODY ***