



**FCC PART 15C  
TEST REPORT  
No. 2013WLN0608**

**for**

**Sony Mobile Communications (China) Co. Ltd**

**GSM/UMTS/LTE mobile phone**

**Type: PM-0350-BV**

**With**

**FCC ID: PY7PM-0350**

**Hardware Version: A**

**Software Version: 12.0.A.1.18**

**Issued Date: 2013-05-03**



**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 LATORATORY

### 1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT  
Address: No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China  
Postal Code: 100191  
Telephone: +86-10-62304633-2561  
Fax: +86-10-62304633-2504

### 1.2. Testing Environment

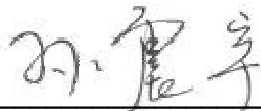
Normal Temperature: 15-30℃  
Extreme Temperature: -20/+55℃  
Relative Humidity: 30-60%  
Air Pressure 990hPa-1040hPa

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

Project Leader: SunZhenyu  
Testing Start Date: 2013-02-07  
Testing End Date: 2013-03-10

### 1.4. Signature



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**Sun Zhenyu**  
**(Prepared this test report)**



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**Gao Hong**  
**(Reviewed this test report)**



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**Xiao Li**  
**Deputy Director of the laboratory**  
**(Approved this test report)**

## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: Sony Mobile Communications (China) Co. Ltd  
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Chaoyang District  
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Postal Code: 100102  
Country: China  
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Telephone: +86-10-58656312  
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### **2.2. Manufacturer Information**

Company Name: Sony Mobile Communications (China) Co. Ltd  
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Chaoyang District  
City: Beijing  
Postal Code: 100102  
Country: China  
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### 3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY

#### EQUIPMENT(AE)

##### 3.1. About EUT

Description	GSM 850/900/1800/1900, GPRS, EDGE, WCDMA FDD Band 1/5/8, HSDPA, HSUPA, LTE FDD Band 1/3/5/7/8/20, Bluetooth EDR & BLE, WLAN ( 802.11 a/b/g/n), FM, NFC, GPS receiver mobile phone
Type	PM-0350-BV
FCC ID	PY7PM-0350
WLAN Frequency Range	ISM Band: 2400MHz~2483.5MHz
Type of modulation	OFDM
Number of Channels	11
GSM Frequency Band	GSM 850/900/1800/1900
UMTS Frequency Band	FDD Band 1 / FDD Band 5 / FDD Band 8
LTE Frequency Band	FDD Band 1 / FDD Band 3 / FDD Band 5 / FDD Band 7 / FDD Band 8 / FDD Band 20
Antenna	Integral Antenna
MAX Radiated Power	20.27dBm(OFDM)
MAX Conducted Power	22.25dBm(OFDM)
Extreme Temperature	-20/+55°C
Normal Voltage	3.7VDC
Extreme Low Voltage	3.5VDC
Extreme High Voltage	4.1VDC

Note: Photographs of EUT are shown in ANNEX C of this test report. Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

##### 3.2. Internal Identification of EUT used during the test

EUT ID*	S/N	IMEI	HW Version	SW Version
EUT1	CB5123BT7P	004402450767920	A	12.0.A.1.18
EUT2	CB51238N0Y	004402450616044	A	12.0.A.1.18

\*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	Travel Charger	AC-0400-EU	/
AE2	USB Cable	AI-0401	/

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



### 3.4. General Description

The Equipment Under Test (EUT) is a model of GSM/UMTS/LTE mobile phone with integrated antenna and inbuilt Li-Polymer battery.

The EUT supports GSM 850/900/1800/1900MHz bands, WCDMA FDD bands 1/5/8 and LTE FDD bands 1/3/5/7/8/20. It also supports GPRS service with multi-slots class 33 and EGPRS service with multi-slots class 33 too. The HSDPA and HSUPA features are also supported.

It has MP3, camera, FM radio, USB memory, GPS receiver, NFC, Mobile High-Definition Link (MHL), Bluetooth (EDR and Bluetooth 4.0), WLAN (802.11 a/b/g/n) and Wi-Fi hotspot functions.

It consists of normal options: Inbuilt li-Polymer battery and USB cable.

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 CFR 47, Part 15, Subpart C:	
	15.205 Restricted bands of operation;	
FCC Part15	15.209 Radiated emission limits, general requirements;	Oct,
	15.247 Operation within the bands 902–928MHz,	2012
	2400–2483.5 MHz, and 5725–5850 MHz.	
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	2012

## 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

**Semi-anechoic chamber** (10 meters×6.7meters×6.15meters) 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	> 2 M ohm
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.5 dB, 3 m distance
Site voltage standing-wave ratio ( $S_{VSWR}$ )	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 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 (b)	/	P
Peak Power Spectral Density	15.247 (e)	/	P
Occupied 6dB Bandwidth	15.247 (a)	/	P
Band Edges Compliance	15.247 (d)	/	P
Transmitter Spurious Emission - Conducted	15.247 (d)	/	P
Transmitter Spurious Emission - Radiated	15.247, 15.209, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	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.
NM	Not measured, The test was not measured 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.

#### 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	3.7V(By battery)
Humidity	H nom	44%
Air Pressure	A nom	1010hPa

## **7. TEST EQUIPMENTS UTILIZED**

### **Conducted test system**

<b>No.</b>	<b>Equipment</b>	<b>Model</b>	<b>Serial Number</b>	<b>Manufacturer</b>	<b>Calibration Due date</b>
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2013-07-19
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2013-10-30
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2013-08-13

### **Radiated emission test system**

<b>No.</b>	<b>Equipment</b>	<b>Model</b>	<b>Serial Number</b>	<b>Manufacturer</b>	<b>Calibration Due date</b>
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2014-02-12
2	BiLog Antenna	3142B	9908-1403	EMCO	2014-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2013-12-25

### **Anechoic chamber**

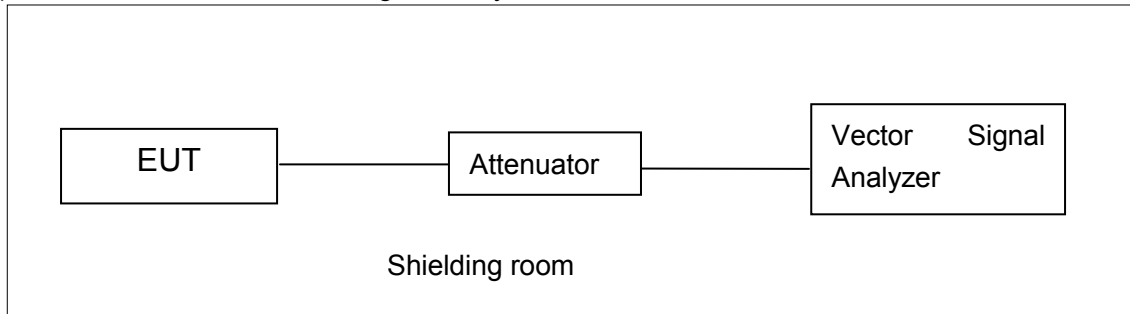
Fully anechoic chamber by Frankonia German.

## 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

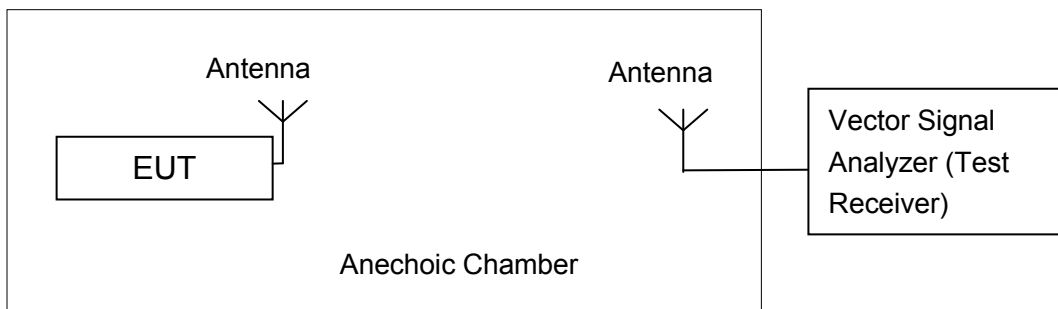


#### A.1.2. Radiated Emission Measurements

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

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

## A.2. Maximum Peak Output Power

### Measurement Limit and Method:

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

The measurement is made according to ANSI C63.4 and KDB558074, and option 1 is used for peak power measurement.

### Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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### A.2.1. Antenna Gain

The antenna gain of the complete system is calculated by the difference of radiated power and the conducted power of the EUT.

Test	Channel		
	1	6	11
Tnom,Vnom			
Conducted Power(dBm)	16.46	16.17	15.72
Radiated Power(dBm)	13.33	12.52	13.74
Gain(dBi)	-3.13	-3.65	-1.98

Antenna Gain = Radiated value (with radiated sample) - Conducted values (with conducted samples)

### A.2.2. 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	18.35	/	/
	2	18.54	/	/
	5.5	20.04	/	/
	11	21.49	21.30	21.57
802.11g	6	21.67	/	/
	9	21.68	/	/
	12	21.48	/	/
	18	21.46	/	/
	24	21.96	/	/
	36	22.00	21.93	22.25
	48	21.97	/	/
	54	21.07	/	/

The data rate 11Mbps and 36Mbps 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	20.73	/	/
	MCS1	20.64	/	/
	MCS2	20.56	/	/
	MCS3	21.03	/	/
	MCS4	20.98	/	/
	MCS5	21.06	/	/
	MCS6	21.00	/	/
	MCS7	21.10	21.36	21.02

The data rate MCS7 is selected as worse condition, and the following cases are performed with this condition.

**Conclusion: PASS**

**A.2.3. Maximum Peak Output Power-Radiated**

**Measurement Results:**

Mode	Test Result (dBm)					
	2412MHz (Ch1)		2437MHz (Ch6)		2462 MHz (Ch11)	
	Conducted	Radiated	Conducted	Radiated	Conducted	Radiated
802.11b	21.49	18.36	21.30	17.65	21.57	19.59
802.11g	22.00	18.87	21.93	18.28	22.25	20.27
802.11n	21.10	17.97	21.36	17.71	21.02	19.04

**Conclusion: PASS**

**A.3. Peak Power Spectral Density**

**Measurement Limit:**

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

The measurement is made according to ANSI C63.4 and KDB558074, and option 1 is used for peak power spectral density measurement.

**Measurement Uncertainty:**

Measurement Uncertainty	0.75dB
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Note: Configuration information to be tested as follows:

Modulation type and data rate:

802.11b	802.11g	802.11n
11Mbps(CCK)	36Mbps(OFDM)	HT20-MCS7(OFDM)

**Measurement Results:**

Mode	Channel	Power Spectral Density ( dBm/3 kHz )	Conclusion
802.11b	1	-8.19	P
	6	-9.43	P
	11	-9.50	P
802.11g	1	-14.56	P
	6	-15.44	P
	11	-15.11	P
802.11n	1	-15.13	P
	6	-15.46	P
	11	-15.76	P

**Conclusion: PASS**

**A.4. Occupied 6dB Bandwidth**

**Measurement Limit:**

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

The measurement is made according to ANSI C63.4 and KDB558074. The option 1 of KDB document is used for occupied 6dB bandwidth measurement.

**Measurement Uncertainty:**

Measurement Uncertainty	60.80Hz
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Note: Configuration information to be tested as follows:

Modulation type and data rate:

802.11b	802.11g	802.11n
11Mbps(CCK)	36Mbps(OFDM)	HT20-MCS7(OFDM)

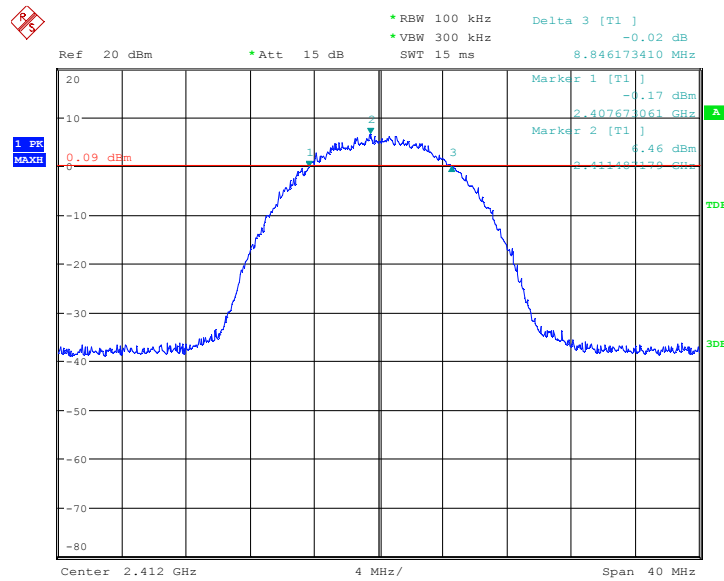
**Measurement Result:**

Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
802.11b	1	Fig.1	8846	P
	6	Fig.2	9179	P
	11	Fig.3	8654	P
802.11g	1	Fig.4	16218	P
	6	Fig.5	16218	P
	11	Fig.6	15801	P
802.11n	1	Fig.7	17692	P
	6	Fig.8	17628	P
	11	Fig.9	16442	P

**Conclusion: PASS**

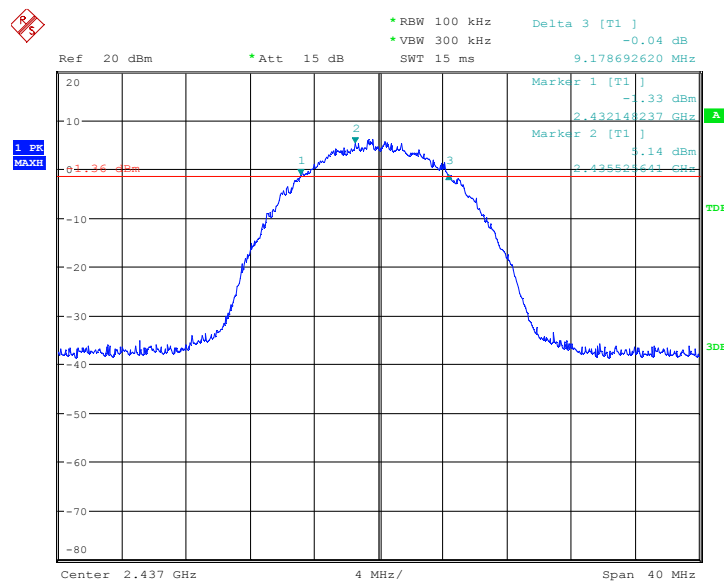


Test graphs as below:



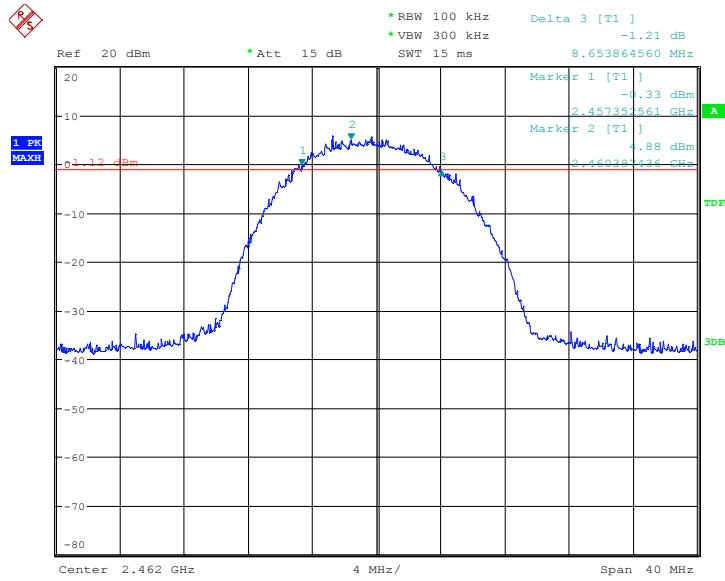
Date: 5.MAR.2013 16:24:40

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



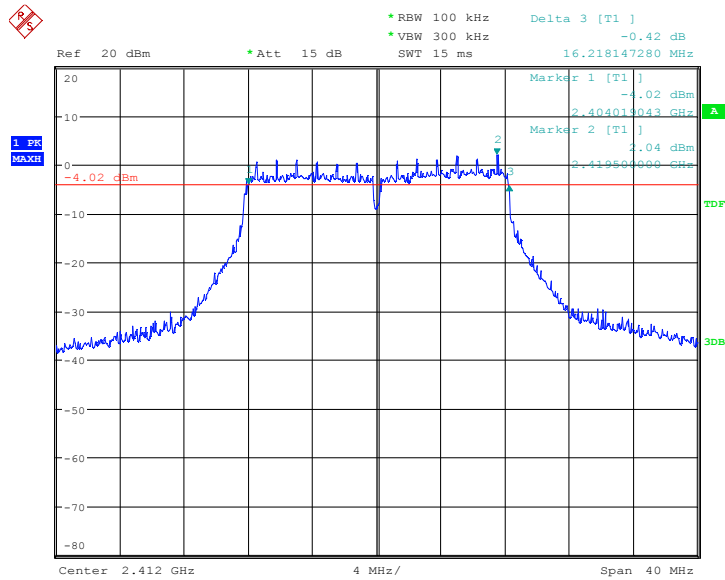
Date: 5.MAR.2013 16:26:04

Fig. 2 Occupied 6dB Bandwidth (802.11b, Ch 6)



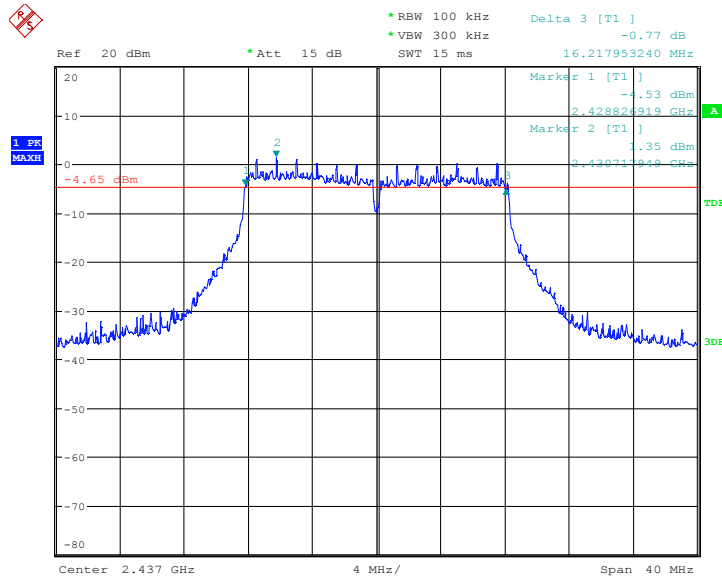
Date: 5.MAR.2013 16:27:25

**Fig. 3 Occupied 6dB Bandwidth (802.11b, Ch 11)**



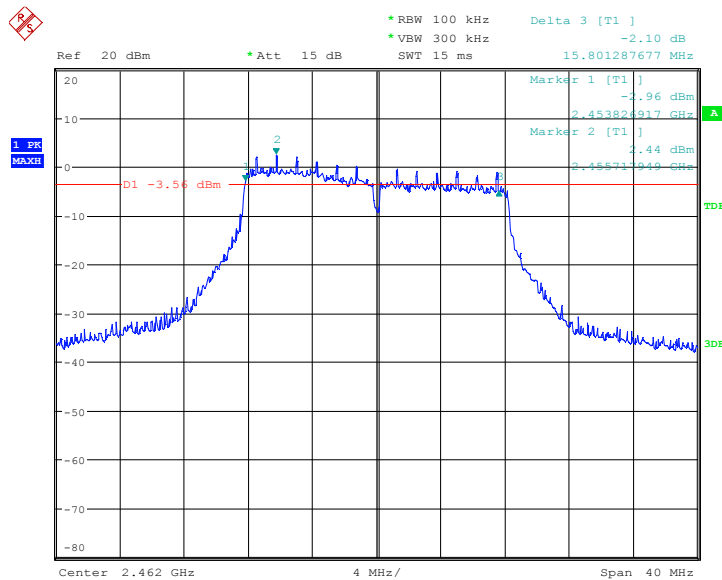
Date: 5.MAR.2013 16:29:01

**Fig. 4 Occupied 6dB Bandwidth (802.11g, Ch 1)**



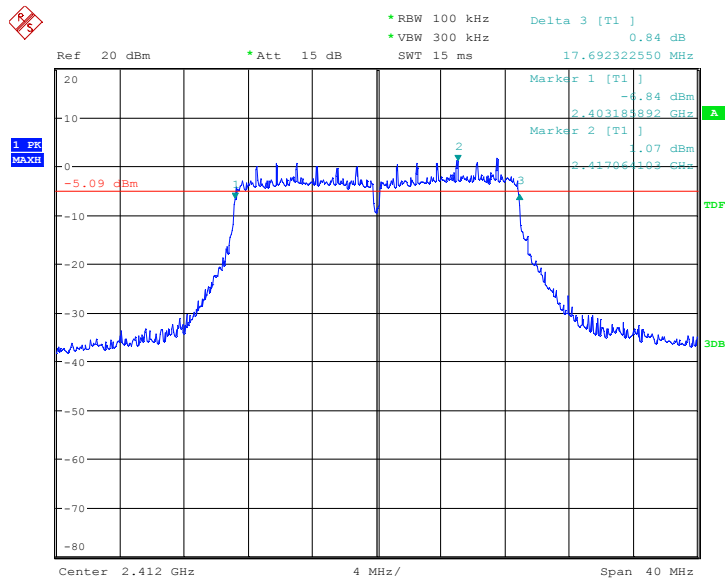
Date: 5.MAR.2013 16:30:36

**Fig. 5 Occupied 6dB Bandwidth (802.11g, Ch 6)**



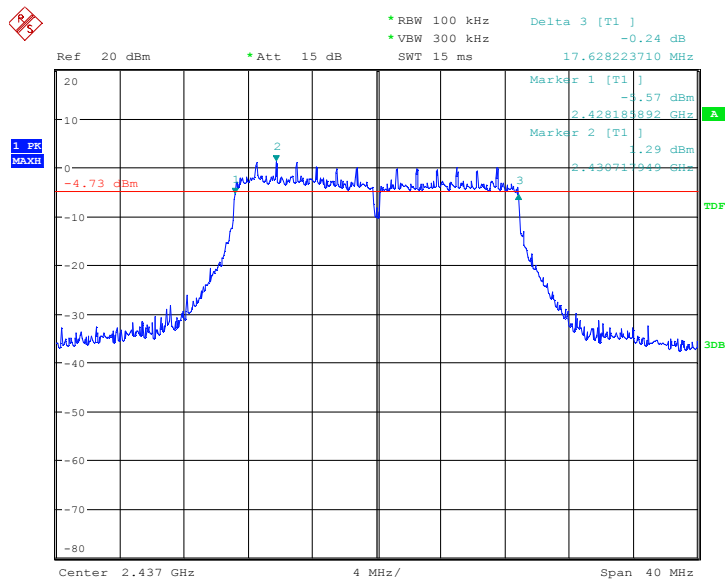
Date: 5.MAR.2013 16:41:38

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



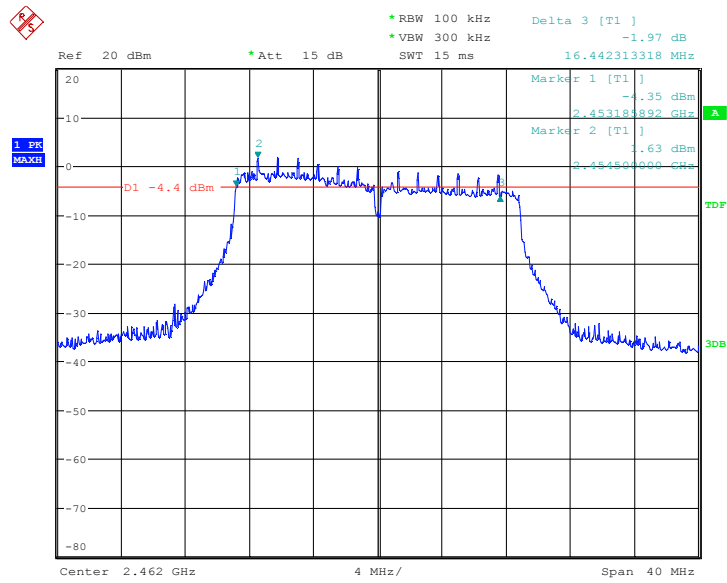
Date: 5.MAR.2013 16:34:05

**Fig. 7 Occupied 6dB Bandwidth (802.11n-HT20, Ch 1)**



Date: 5.MAR.2013 16:35:29

**Fig. 8 Occupied 6dB Bandwidth (802.11n-HT20, Ch 6)**



Date: 5.MAR.2013 16:43:15

**Fig. 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 ANSI C63.4 and KDB558074

**Measurement Uncertainty:**

Measurement Uncertainty	0.75dB
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Note: Configuration information to be tested as follows:

Modulation type and data rate:

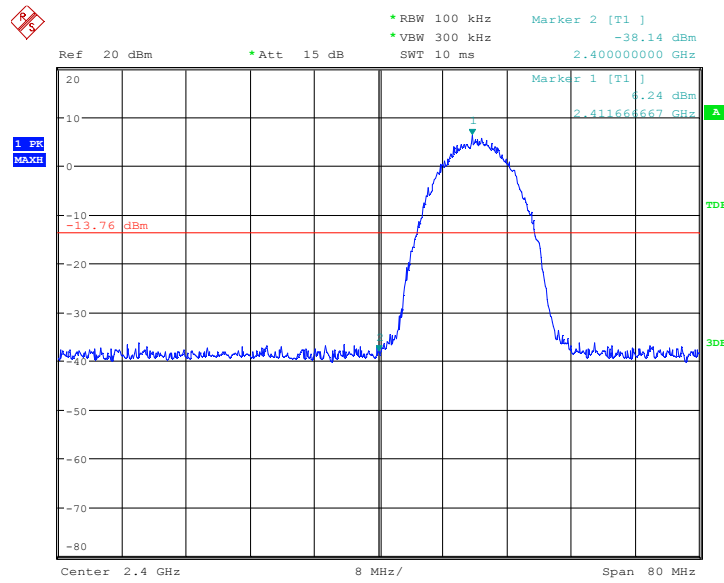
802.11b	802.11g	802.11n
11Mbps(CCK)	36Mbps(OFDM)	HT20-MCS7(OFDM)

**Measurement Result:**

Mode	Channel	Test Results		Conclusion
		Fig.	Value	
802.11b	1	Fig.10	24.38	P
	11	Fig.11	22.56	P
802.11g	1	Fig.12	14.47	P
	11	Fig.13	19.89	P
802.11n	1	Fig.14	14.65	P
	11	Fig.15	20.31	P

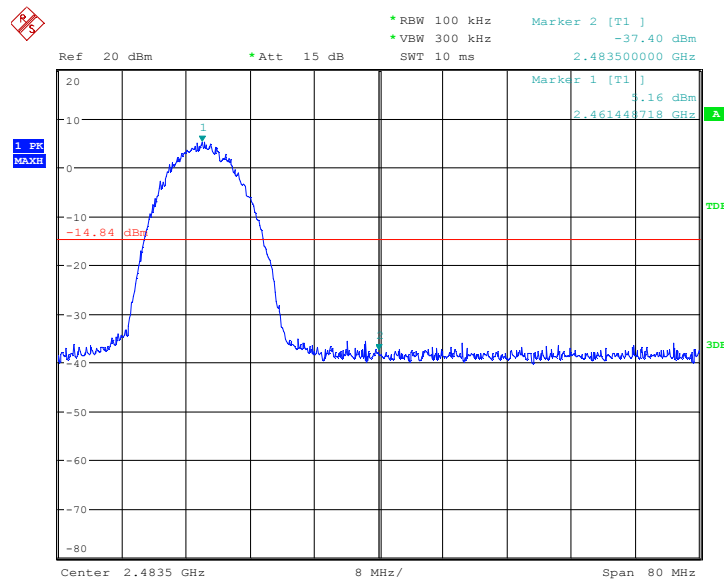
**Conclusion: PASS**

Test graphs as below:



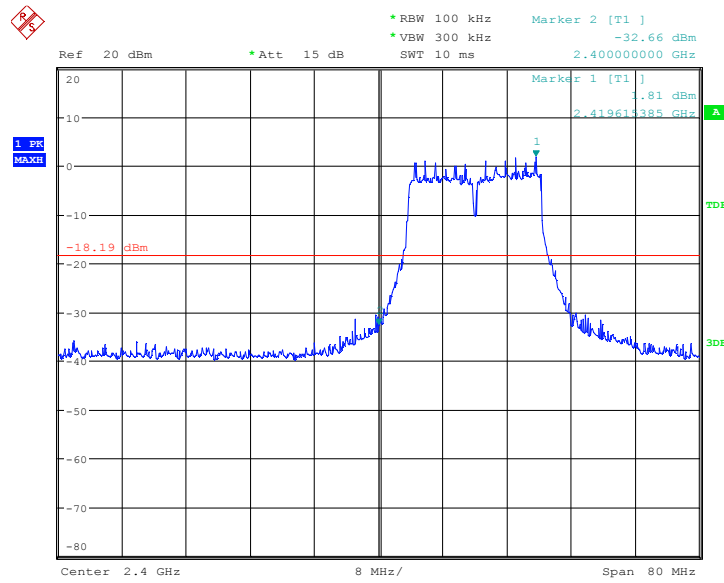
Date: 5.MAR.2013 16:47:40

**Fig. 10 Band Edges (802.11b, Ch 1)**



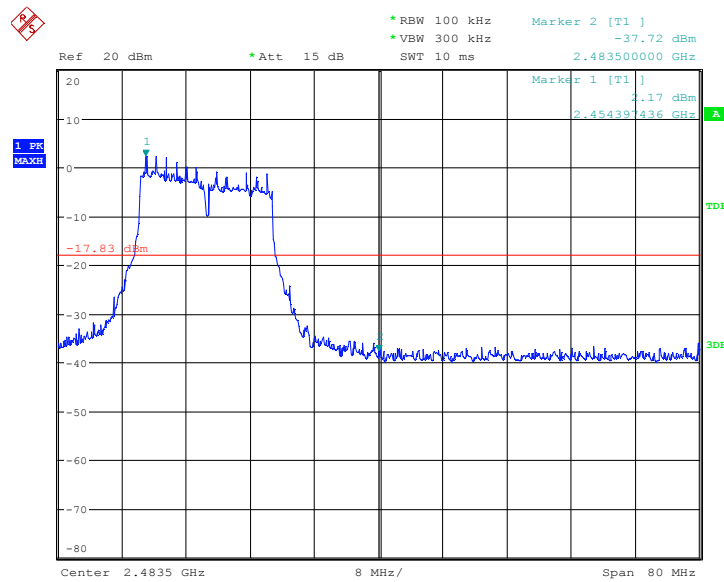
Date: 5.MAR.2013 16:48:15

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



Date: 5.MAR.2013 16:48:53

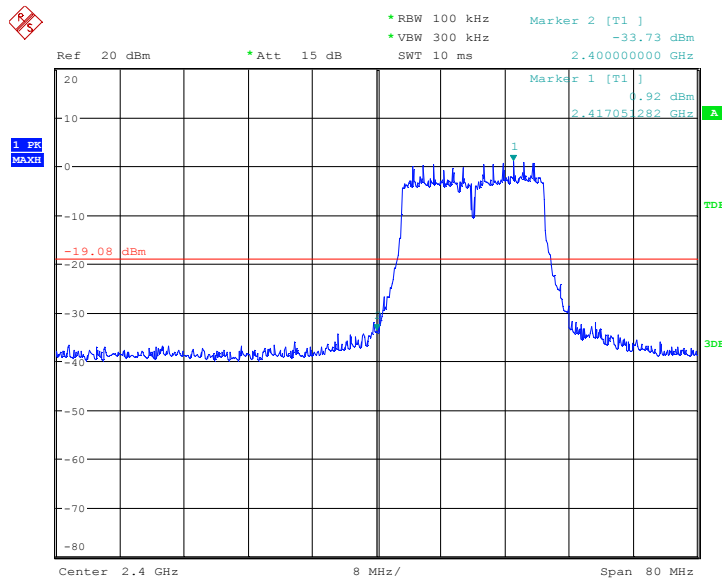
**Fig. 12 Band Edges (802.11g, Ch 1)**



Date: 5.MAR.2013 16:49:22

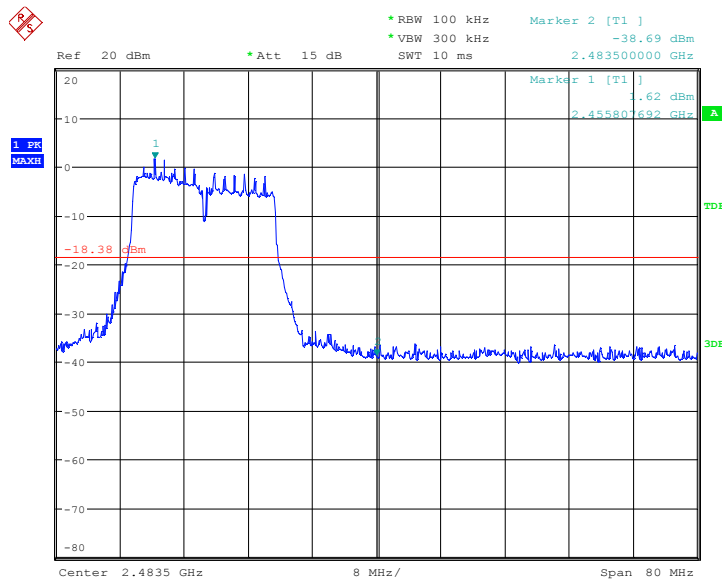
**Fig. 13 Band Edges (802.11g, Ch 11)**





Date: 5.MAR.2013 16:50:01

**Fig. 14 Band Edges (802.11n-HT20, Ch 1)**



Date: 5.MAR.2013 16:50:35

**Fig. 15 Band Edges (802.11n-HT20, Ch 11)**

## A.6. Transmitter Spurious Emission

### 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 ANSI C63.4 and KDB558074

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)).

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

### Measurement Uncertainty:

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

Note: Configuration information to be tested as follows:

Modulation type and data rate:

802.11b	802.11g	802.11n
11Mbps(CCK)	36Mbps(OFDM)	HT20-MCS7(OFDM)

### A.6.1 Transmitter Spurious Emission - Conducted

#### Measurement Results:

##### 802.11b/g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.16	P
		30 MHz ~ 1 GHz	Fig.17	P
		1 GHz ~ 2.5 GHz	Fig.18	P
		2.5 GHz ~ 7.5 GHz	Fig.19	P
		7.5 GHz ~ 10 GHz	Fig.20	P
		10 GHz ~ 15 GHz	Fig.21	P

		15 GHz ~ 20 GHz	Fig.22	P	
		20 GHz ~ 26 GHz	Fig.23	P	
	6	2.437 GHz	Fig.24	P	
		30 MHz ~ 1 GHz	Fig.25	P	
		1 GHz ~ 2.5 GHz	Fig.26	P	
		2.5 GHz ~ 7.5 GHz	Fig.27	P	
		7.5 GHz ~ 10 GHz	Fig.28	P	
		10 GHz ~ 15 GHz	Fig.29	P	
		15 GHz ~ 20 GHz	Fig.30	P	
		20 GHz ~ 26 GHz	Fig.31	P	
		11	2.462 GHz	Fig.32	P
			30 MHz ~ 1 GHz	Fig.33	P
	1 GHz ~ 2.5 GHz		Fig.34	P	
	2.5 GHz ~ 7.5 GHz		Fig.35	P	
	7.5 GHz ~ 10 GHz		Fig.36	P	
	10 GHz ~ 15 GHz		Fig.37	P	
	15 GHz ~ 20 GHz		Fig.38	P	
	20 GHz ~ 26 GHz		Fig.39	P	
	802.11g	1	2.412 GHz	Fig.40	P
30 MHz ~ 1 GHz			Fig.41	P	
1 GHz ~ 2.5 GHz			Fig.42	P	
2.5 GHz ~ 7.5 GHz			Fig.43	P	
7.5 GHz ~ 10 GHz			Fig.44	P	
10 GHz ~ 15 GHz			Fig.45	P	
15 GHz ~ 20 GHz			Fig.46	P	
20 GHz ~ 26 GHz			Fig.47	P	
6		2.437 GHz	Fig.48	P	
		30 MHz ~ 1 GHz	Fig.49	P	
		1 GHz ~ 2.5 GHz	Fig.50	P	
		2.5 GHz ~ 7.5 GHz	Fig.51	P	
		7.5 GHz ~ 10 GHz	Fig.52	P	
		10 GHz ~ 15 GHz	Fig.53	P	
		15 GHz ~ 20 GHz	Fig.54	P	
		20 GHz ~ 26 GHz	Fig.55	P	
11		2.462 GHz	Fig.56	P	
		30 MHz ~ 1 GHz	Fig.57	P	
		1 GHz ~ 2.5 GHz	Fig.58	P	
		2.5 GHz ~ 7.5 GHz	Fig.59	P	
		7.5 GHz ~ 10 GHz	Fig.60	P	
		10 GHz ~ 15 GHz	Fig.61	P	
		15 GHz ~ 20 GHz	Fig.62	P	
		20 GHz ~ 26 GHz	Fig.63	P	

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	2.412 GHz	Fig.64	P
		30 MHz ~ 1 GHz	Fig.65	P
		1 GHz ~ 2.5 GHz	Fig.66	P
		2.5 GHz ~ 7.5 GHz	Fig.67	P
		7.5 GHz ~ 10 GHz	Fig.68	P
		10 GHz ~ 15 GHz	Fig.69	P
		15 GHz ~ 20 GHz	Fig.70	P
		20 GHz ~ 26 GHz	Fig.71	P
	6	2.437 GHz	Fig.72	P
		30 MHz ~ 1 GHz	Fig.73	P
		1 GHz ~ 2.5 GHz	Fig.74	P
		2.5 GHz ~ 7.5 GHz	Fig.75	P
		7.5 GHz ~ 10 GHz	Fig.76	P
		10 GHz ~ 15 GHz	Fig.77	P
		15 GHz ~ 20 GHz	Fig.78	P
		20 GHz ~ 26 GHz	Fig.79	P
	11	2.462 GHz	Fig.80	P
		30 MHz ~ 1 GHz	Fig.81	P
		1 GHz ~ 2.5 GHz	Fig.82	P
		2.5 GHz ~ 7.5 GHz	Fig.83	P
		7.5 GHz ~ 10 GHz	Fig.84	P
		10 GHz ~ 15 GHz	Fig.85	P
		15 GHz ~ 20 GHz	Fig.86	P
		20 GHz ~ 26 GHz	Fig.87	P

**802.11b**

Channel	Worst case results	Frequency(MHz)	Amplitude of emission(dBm)	Limit(dBm)	Margin (dB)
1	Fig.88	2400.000	-37.68	-13.30	24.38
6	Fig.89	2366.987	-44.51	-14.37	30.14
11	Fig.90	2642.628	-44.98	-15.61	29.37

**802.11g**

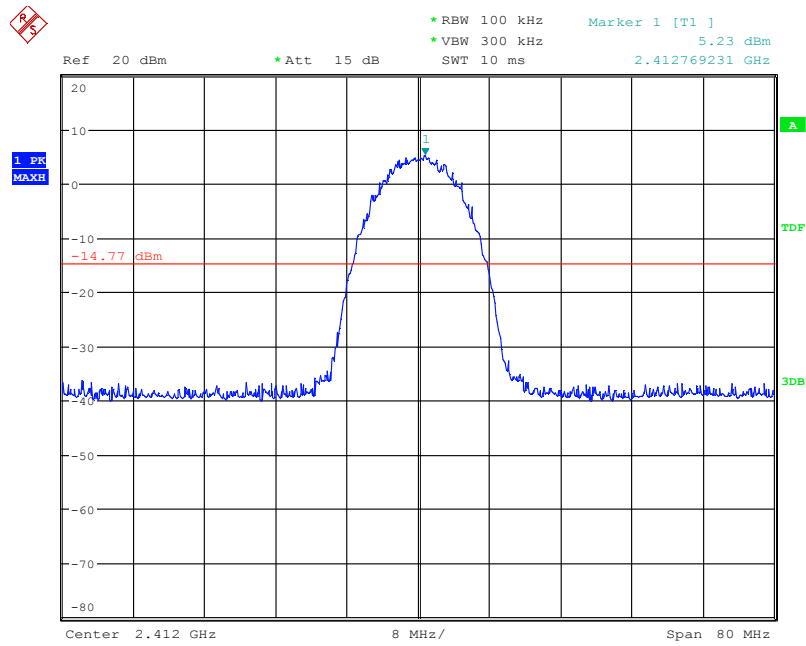
Channel	Worst case results	Frequency(MHz)	Amplitude of emission(dBm)	Limit(dBm)	Margin (dB)
1	Fig.91	2400.000	-26.47	-18.62	7.85
6	Fig.92	2062.500	-45.49	-18.84	26.65
11	Fig.93	2384.615	-44.83	-18.18	26.65

**802.11n**

Channel	Worst case results	Frequency(MHz)	Amplitude of emission(dBm)	Limit(dBm)	Margin (dB)
1	Fig.94	2400.000	-27.43	-18.73	8.70
6	Fig.95	2778.846	-44.44	-18.90	25.54
11	Fig.96	2219.551	-44.12	-18.21	25.91

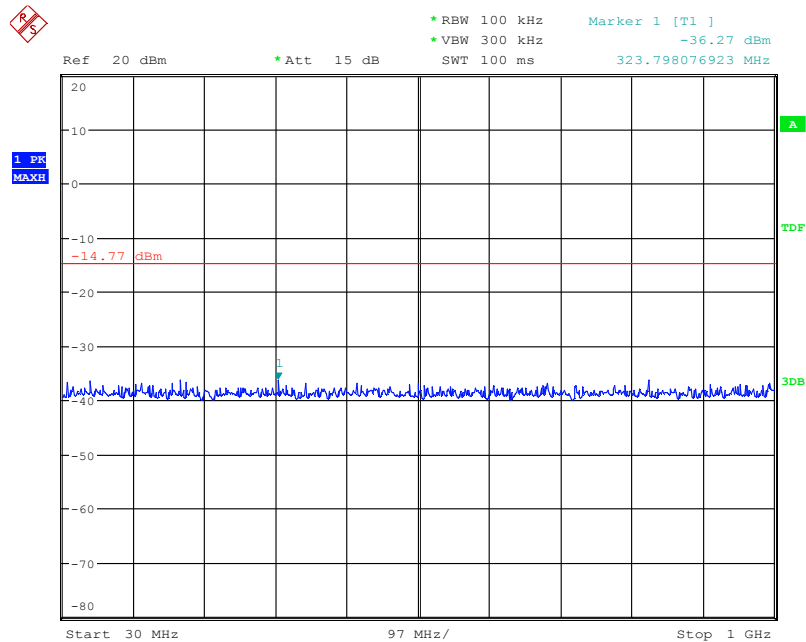
**Conclusion: PASS**

**Test graphs as below:**



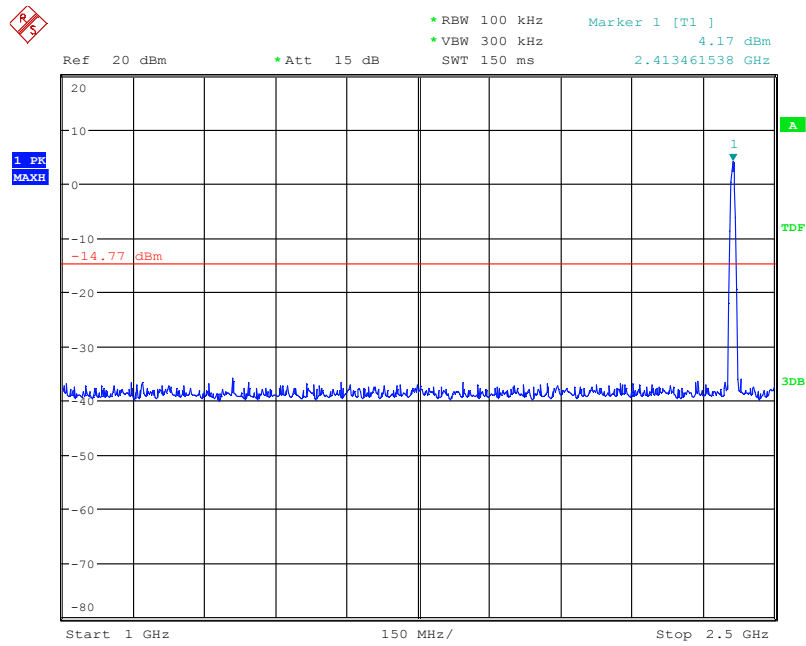
Date: 5.MAR.2013 16:56:32

**Fig. 16 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)**



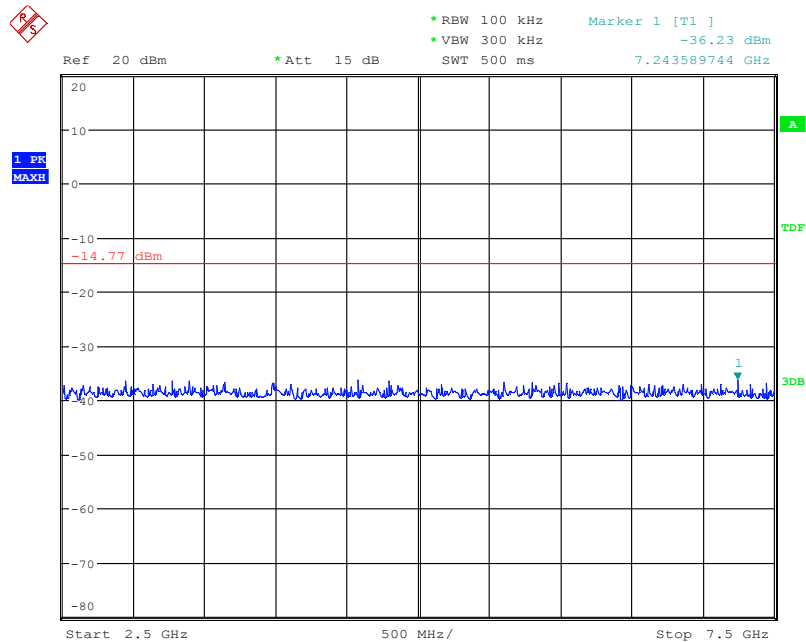
Date: 5.MAR.2013 16:56:39

**Fig. 17 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)**



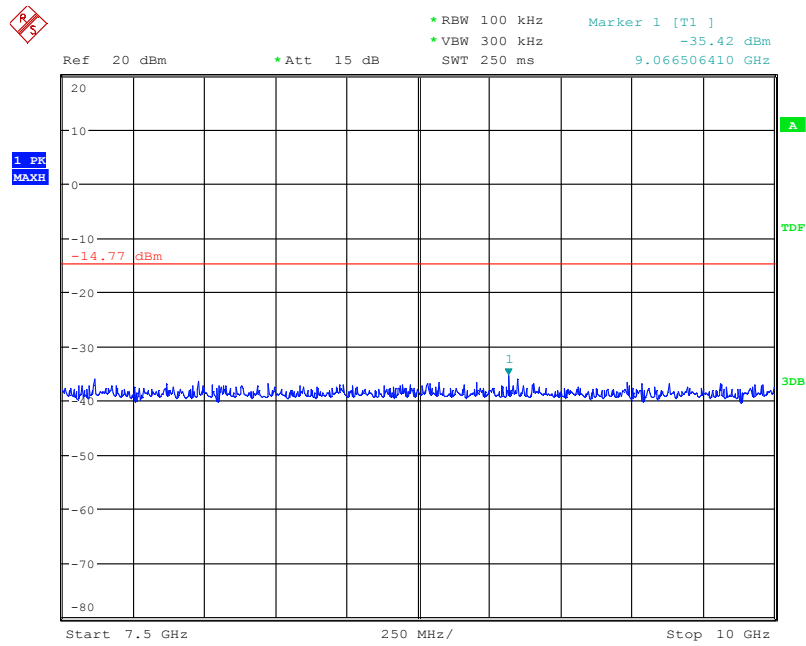
Date: 5.MAR.2013 16:56:45

**Fig. 18 Conducted Spurious Emission (802.11b, Ch1, 1 GHz-2.5 GHz)**



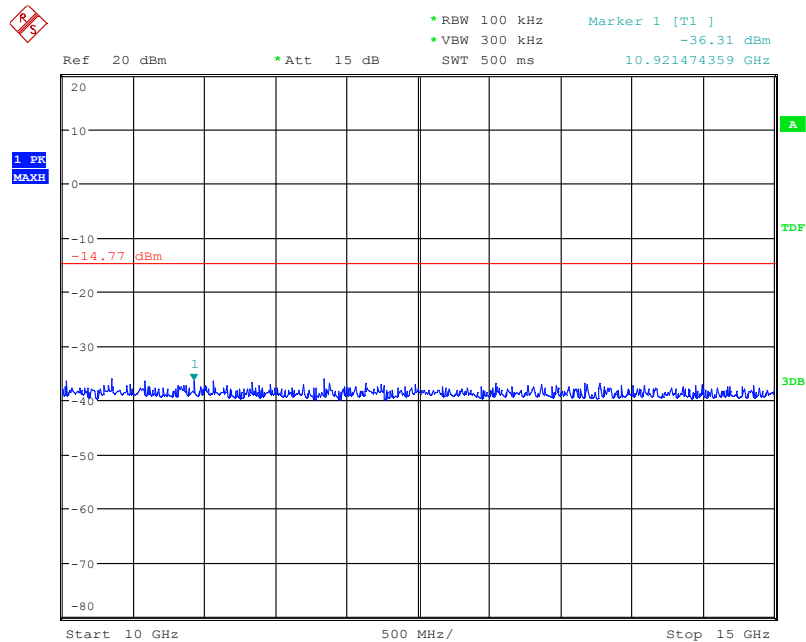
Date: 5.MAR.2013 16:56:51

**Fig. 19 Conducted Spurious Emission (802.11b, Ch1, 2.5 GHz-7.5 GHz)**



Date: 5.MAR.2013 16:56:58

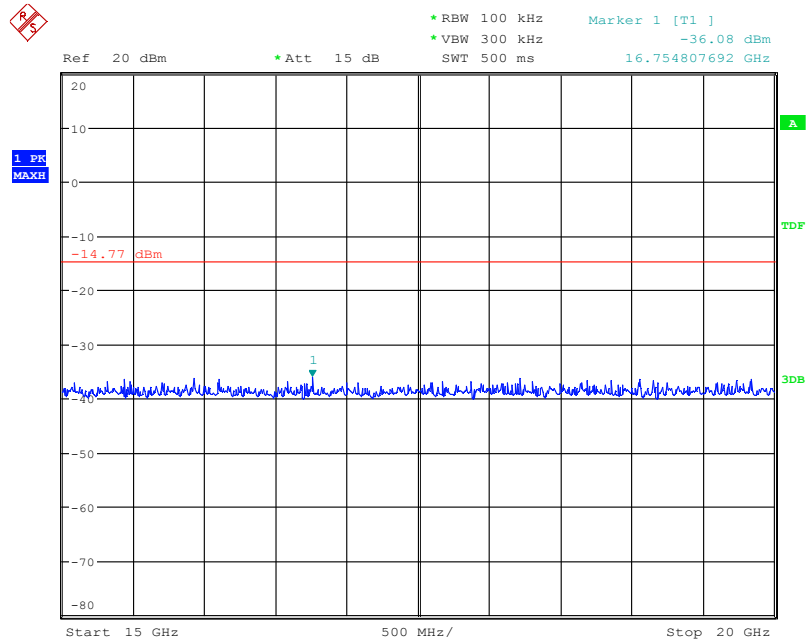
**Fig. 20 Conducted Spurious Emission (802.11b, Ch1, 7.5 GHz-10 GHz)**



Date: 5.MAR.2013 16:57:04

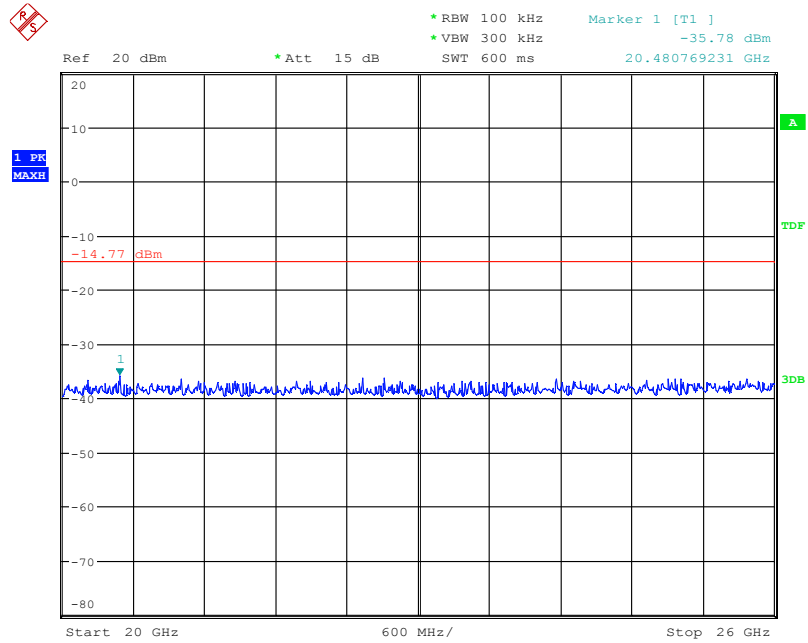
**Fig. 21 Conducted Spurious Emission (802.11b, Ch1, 10 GHz-15 GHz)**





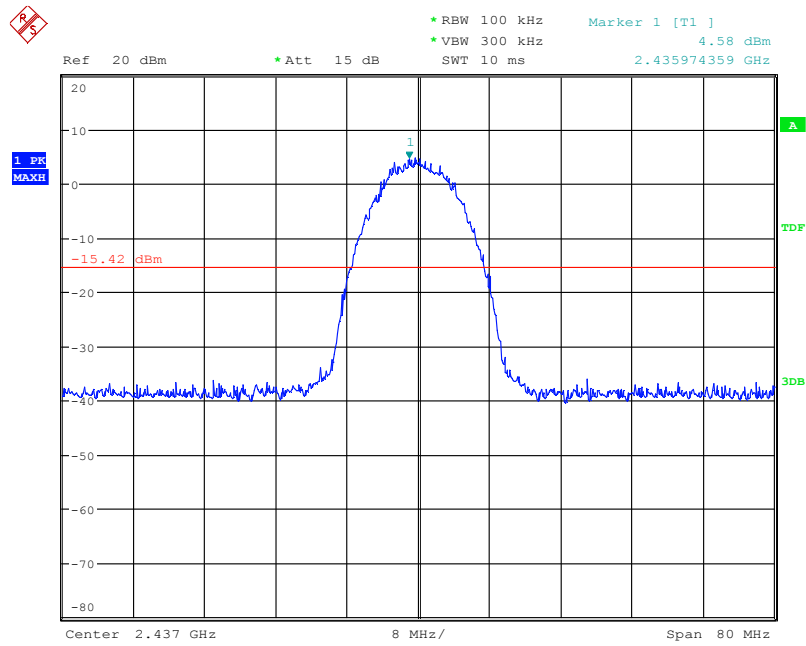
Date: 5.MAR.2013 16:57:11

**Fig. 22 Conducted Spurious Emission (802.11b, Ch1, 15 GHz-20 GHz)**



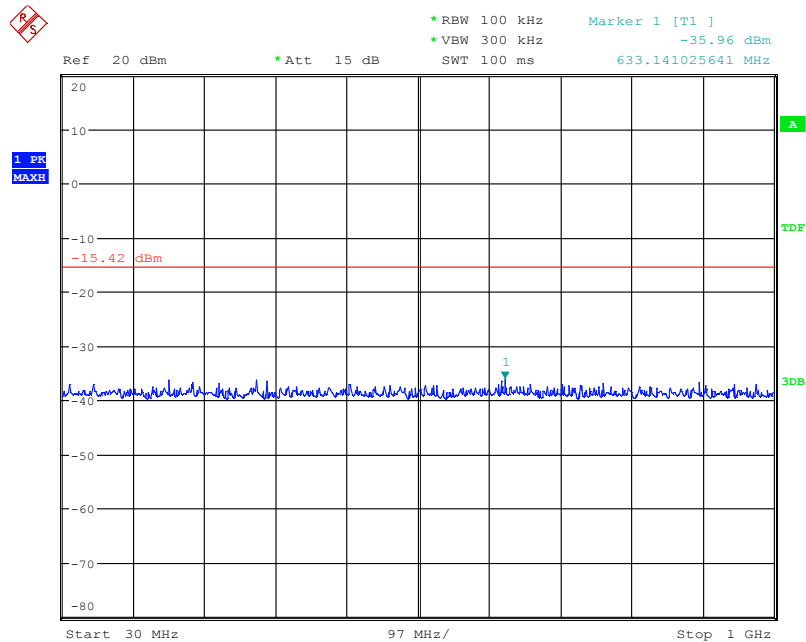
Date: 5.MAR.2013 16:57:17

**Fig. 23 Conducted Spurious Emission (802.11b, Ch1, 20 GHz-26 GHz)**



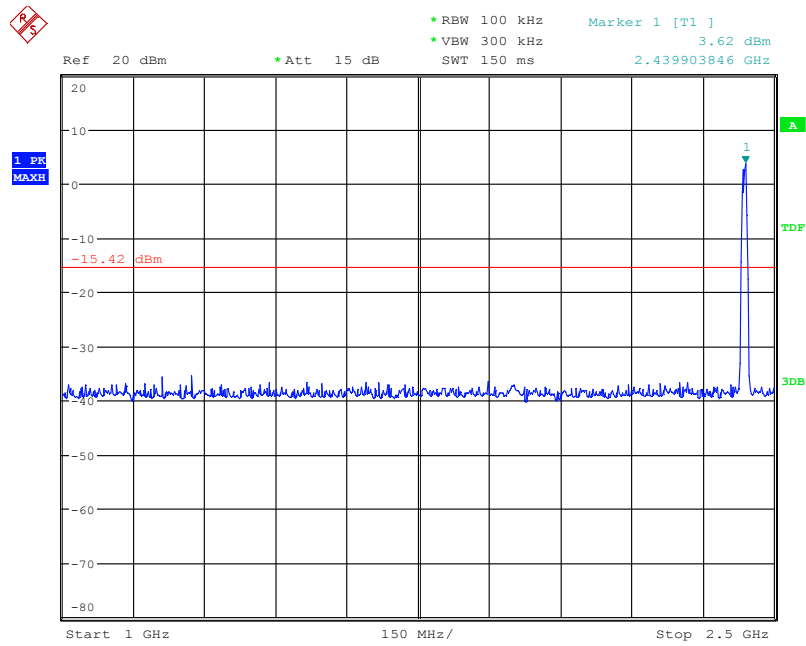
Date: 5.MAR.2013 16:58:03

**Fig. 24 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)**



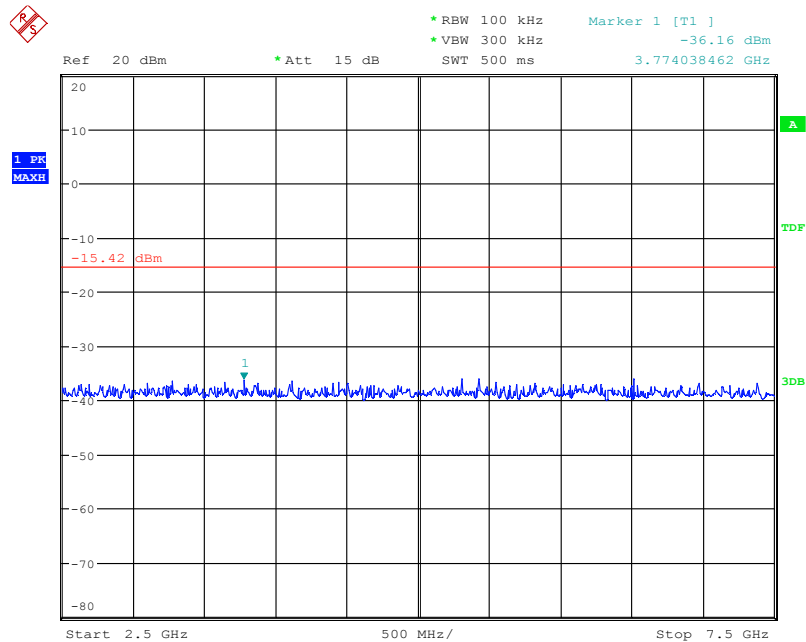
Date: 5.MAR.2013 16:58:09

**Fig. 25 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)**



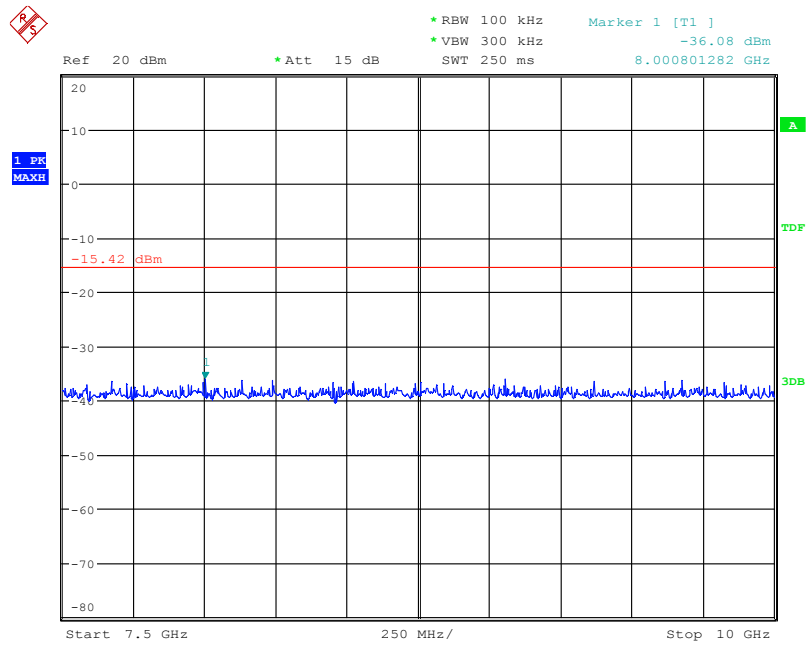
Date: 5.MAR.2013 16:58:16

**Fig. 26 Conducted Spurious Emission (802.11b, Ch6, 1 GHz-2.5 GHz)**



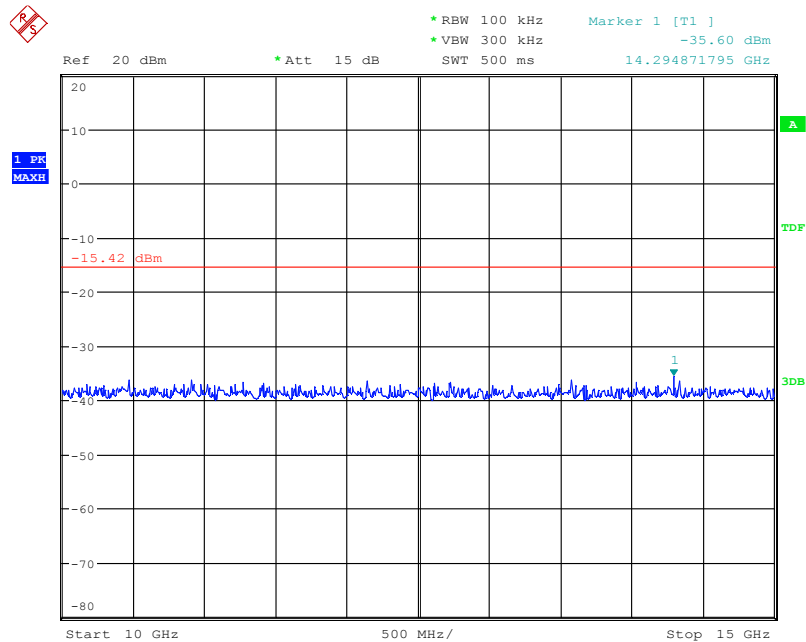
Date: 5.MAR.2013 16:58:23

**Fig. 27 Conducted Spurious Emission (802.11b, Ch6, 2.5 GHz-7.5 GHz)**



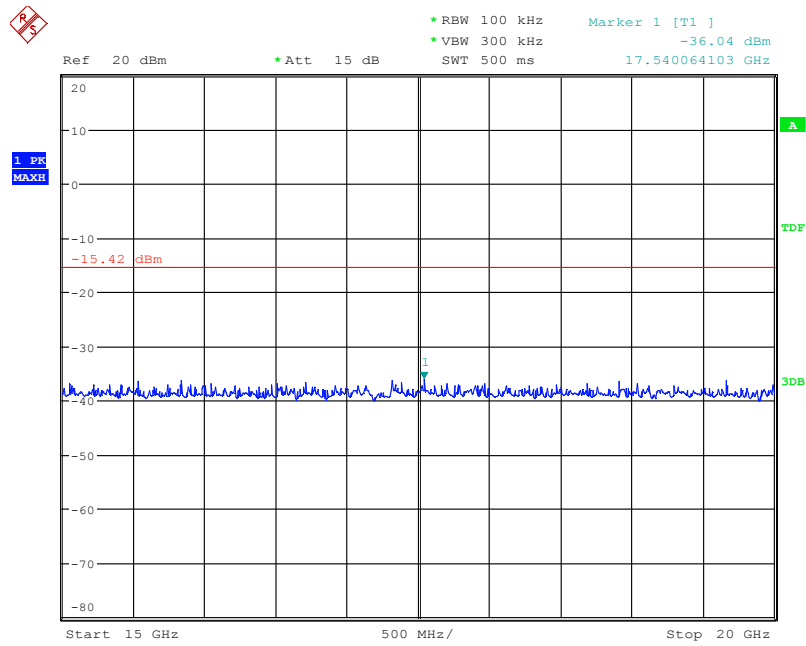
Date: 5.MAR.2013 16:58:29

**Fig. 28 Conducted Spurious Emission (802.11b, Ch6, 7.5 GHz-10 GHz)**



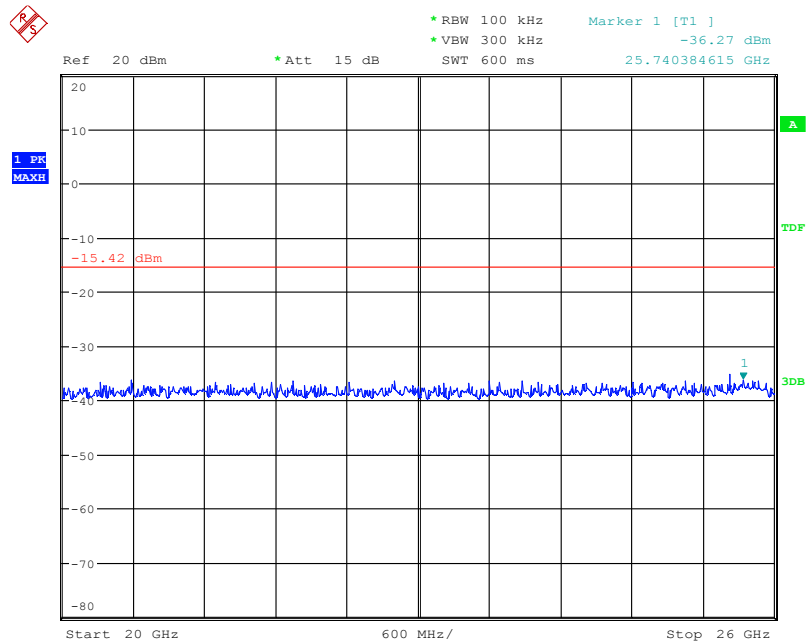
Date: 5.MAR.2013 16:58:36

**Fig. 29 Conducted Spurious Emission (802.11b, Ch6, 10 GHz-15 GHz)**



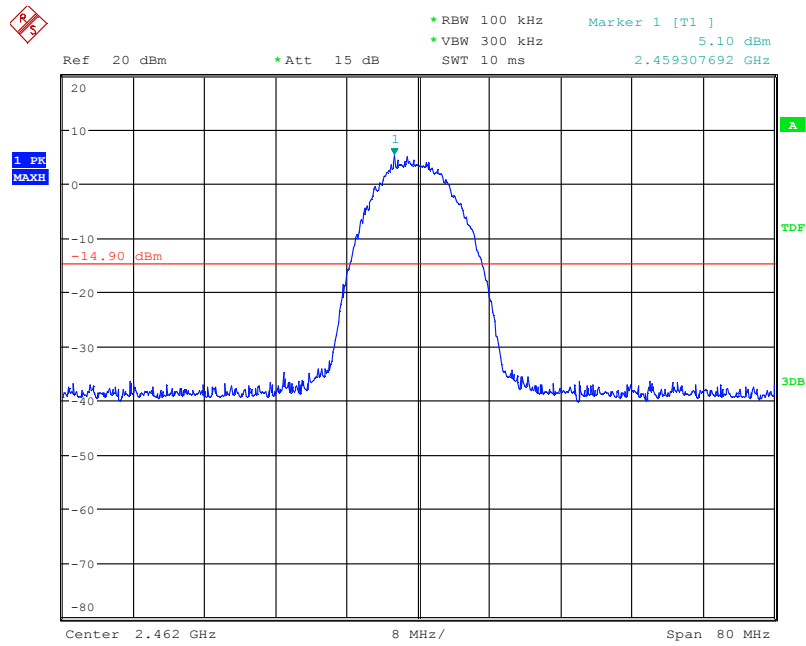
Date: 5.MAR.2013 16:58:43

**Fig. 30 Conducted Spurious Emission (802.11b, Ch6, 15 GHz-20 GHz)**



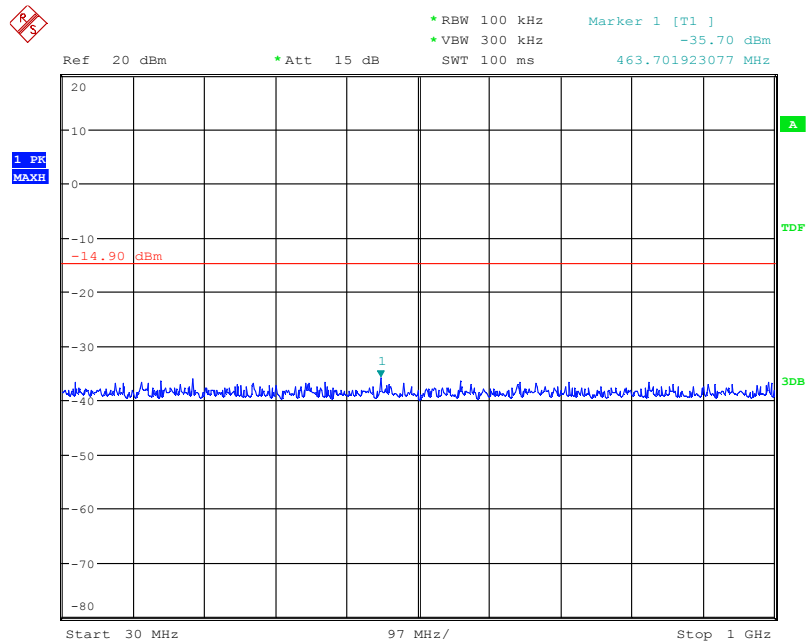
Date: 5.MAR.2013 16:58:49

**Fig. 31 Conducted Spurious Emission (802.11b, Ch6, 20 GHz-26 GHz)**



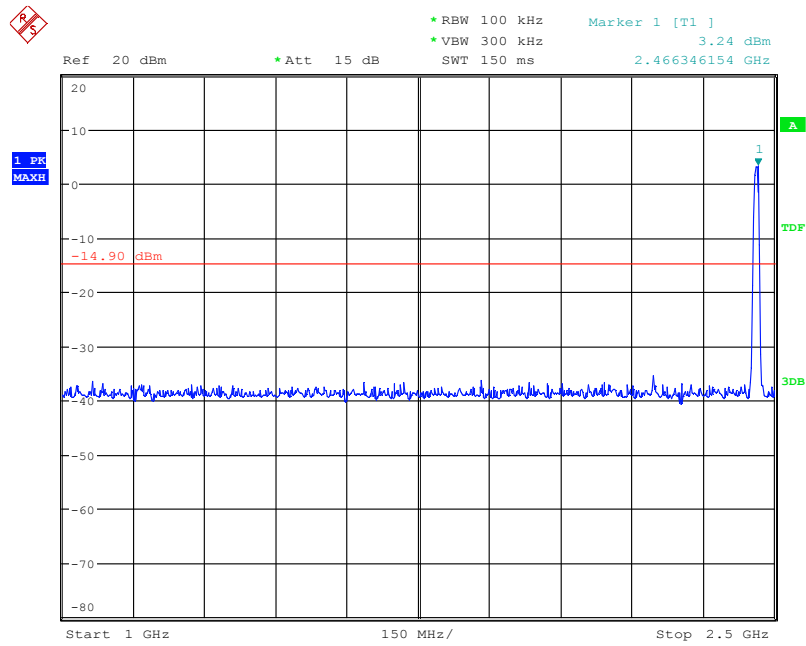
Date: 5.MAR.2013 16:59:19

**Fig. 32 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)**



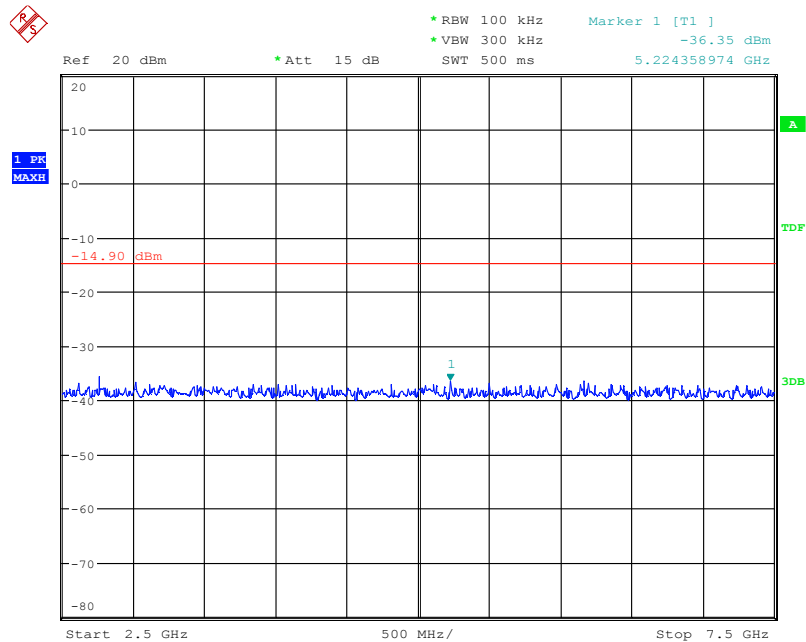
Date: 5.MAR.2013 16:59:26

**Fig. 33 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)**



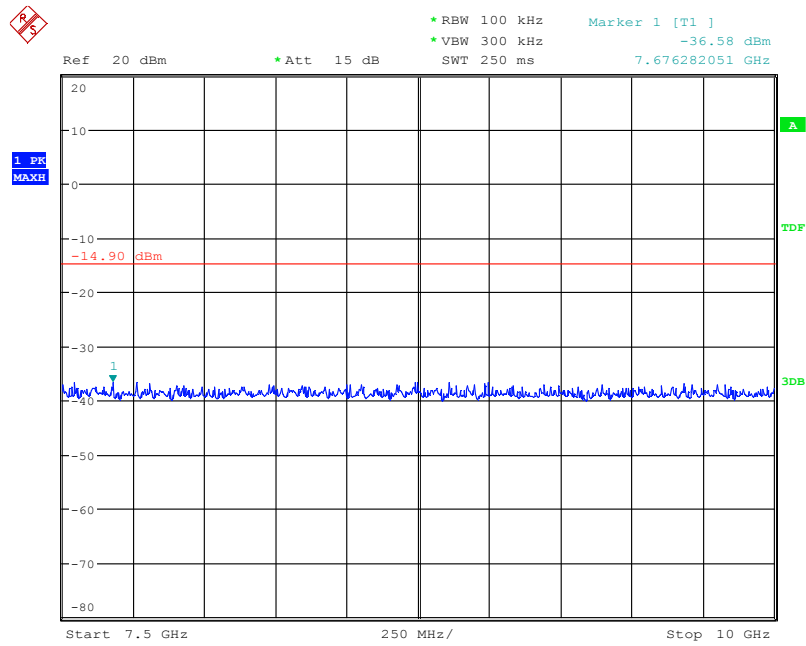
Date: 5.MAR.2013 16:59:33

**Fig. 34 Conducted Spurious Emission (802.11b, Ch11, 1 GHz-2.5 GHz)**



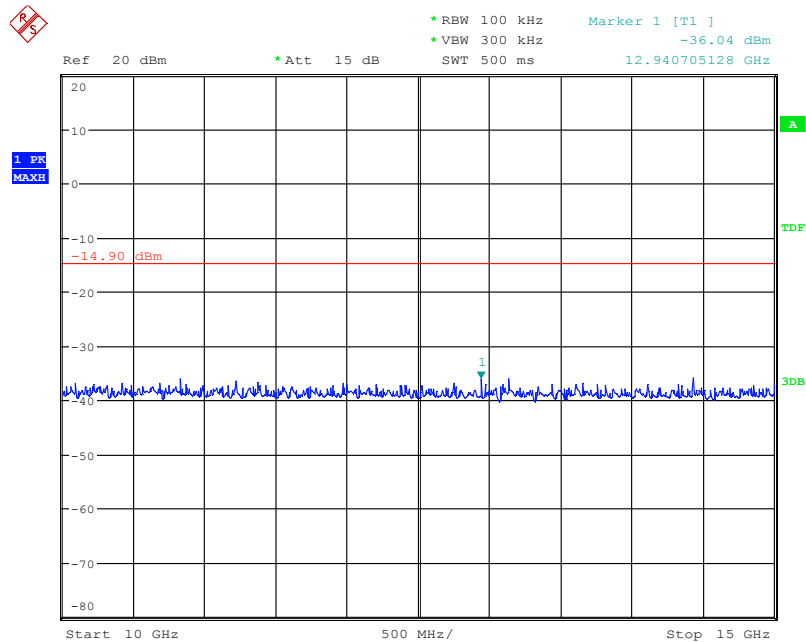
Date: 5.MAR.2013 16:59:39

**Fig. 35 Conducted Spurious Emission (802.11b, Ch11, 2.5 GHz-7.5 GHz)**



Date: 5.MAR.2013 16:59:46

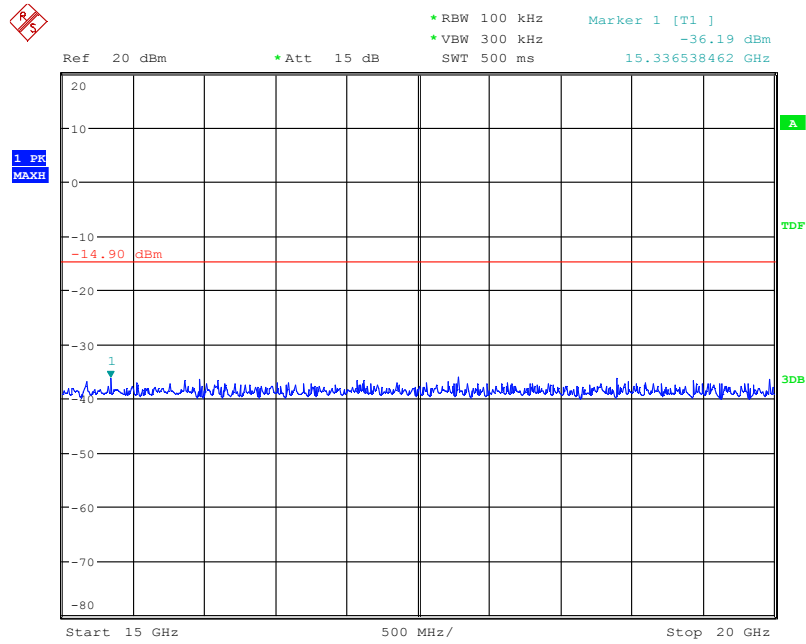
**Fig. 36 Conducted Spurious Emission (802.11b, Ch11, 7.5 GHz-10 GHz)**



Date: 5.MAR.2013 16:59:52

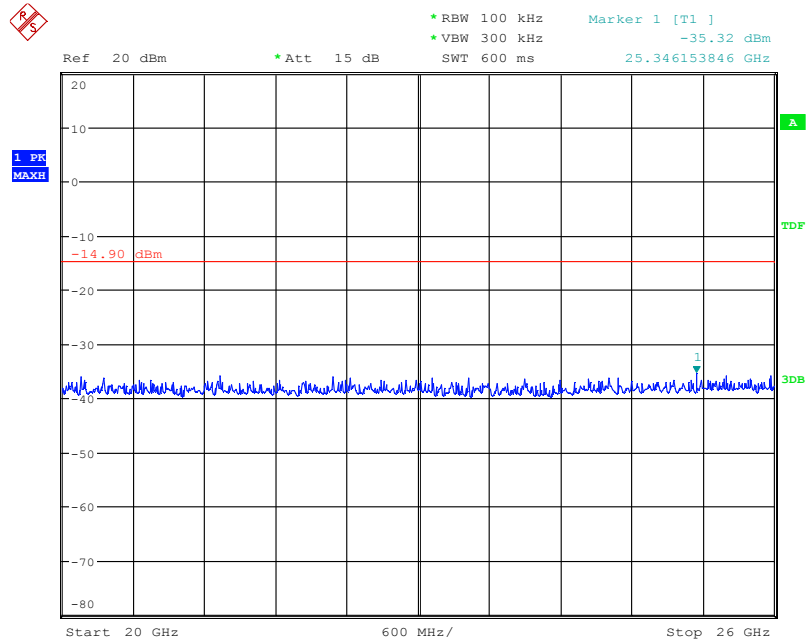
**Fig. 37 Conducted Spurious Emission (802.11b, Ch11, 10 GHz-15 GHz)**





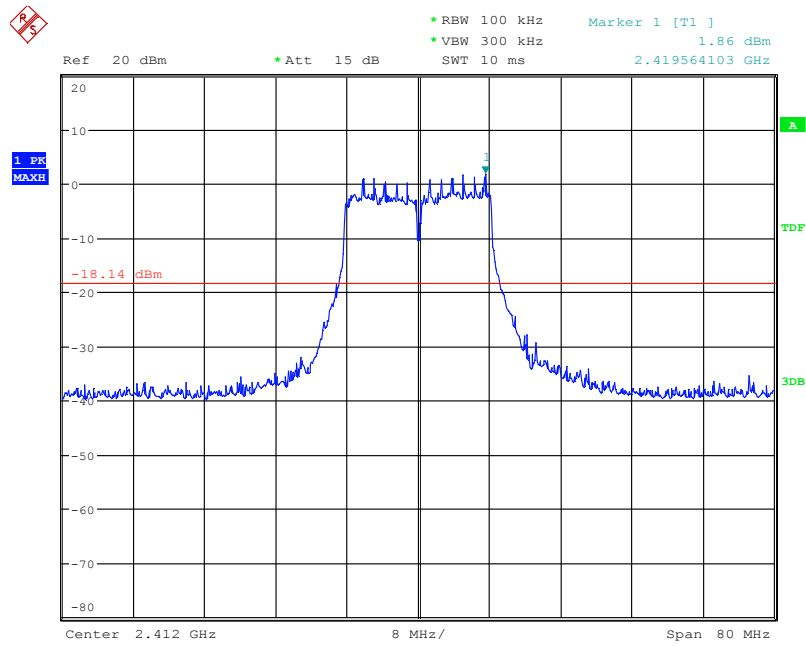
Date: 5.MAR.2013 16:59:59

**Fig. 38 Conducted Spurious Emission (802.11b, Ch11, 15 GHz-20 GHz)**



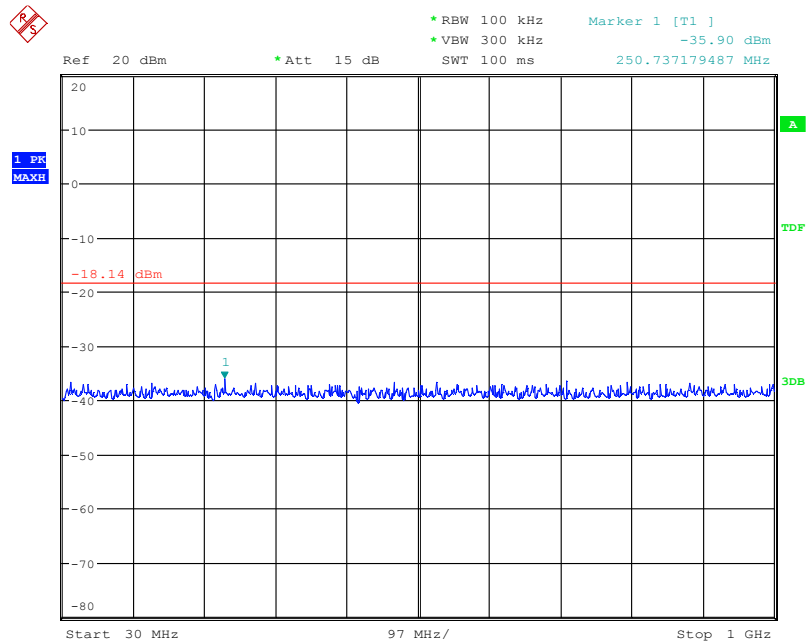
Date: 5.MAR.2013 17:00:05

**Fig. 39 Conducted Spurious Emission (802.11b, Ch11, 20 GHz-26 GHz)**



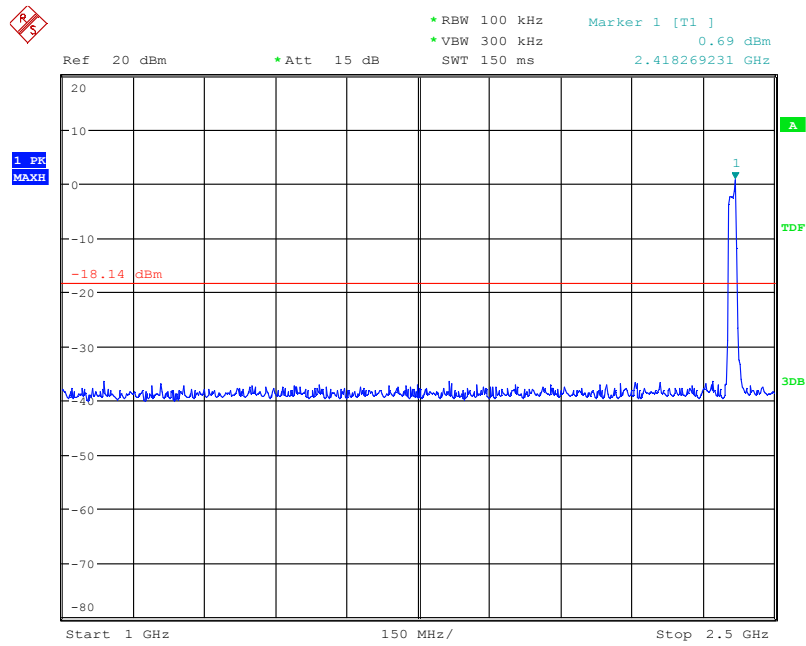
Date: 5.MAR.2013 17:01:34

**Fig. 40 Conducted Spurious Emission (802.11g, Ch1, Center Frequency)**



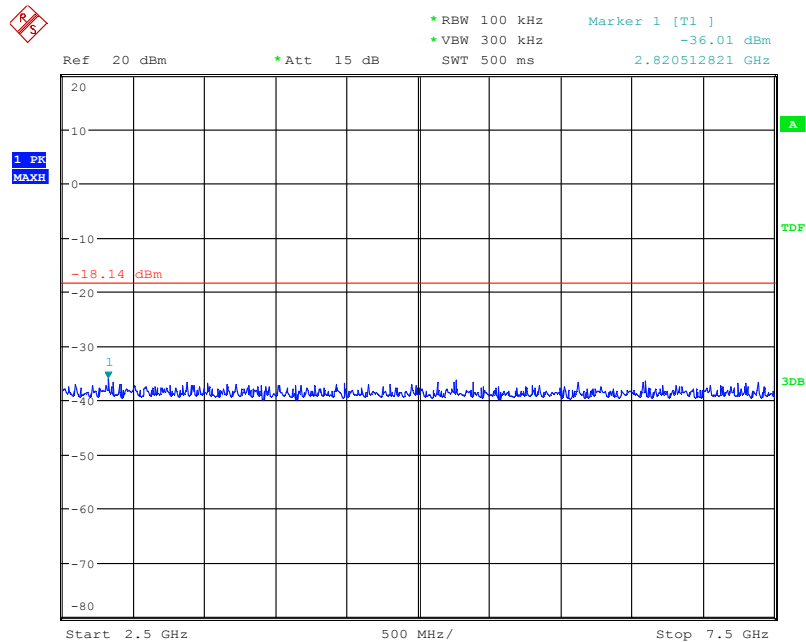
Date: 5.MAR.2013 17:01:40

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



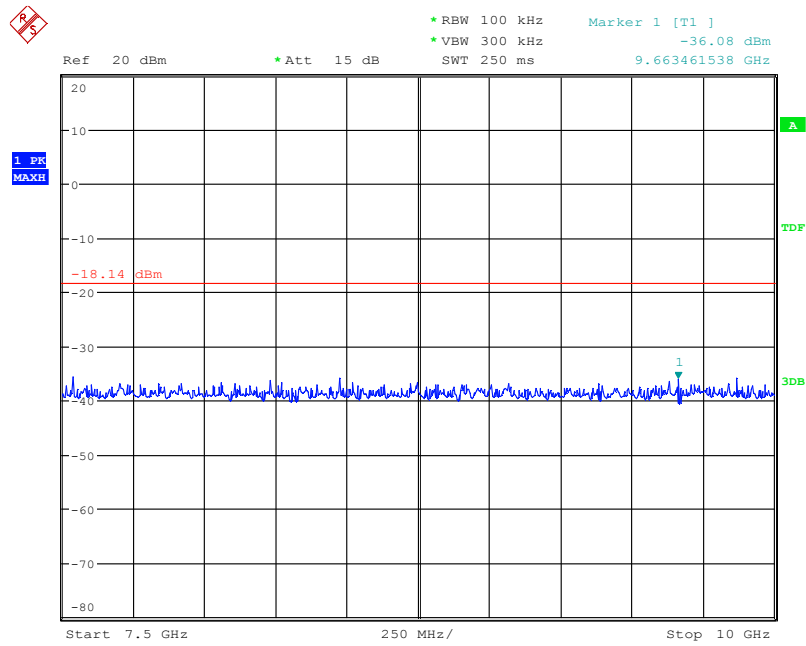
Date: 5.MAR.2013 17:01:47

**Fig. 42 Conducted Spurious Emission (802.11g, Ch1, 1 GHz-2.5 GHz)**



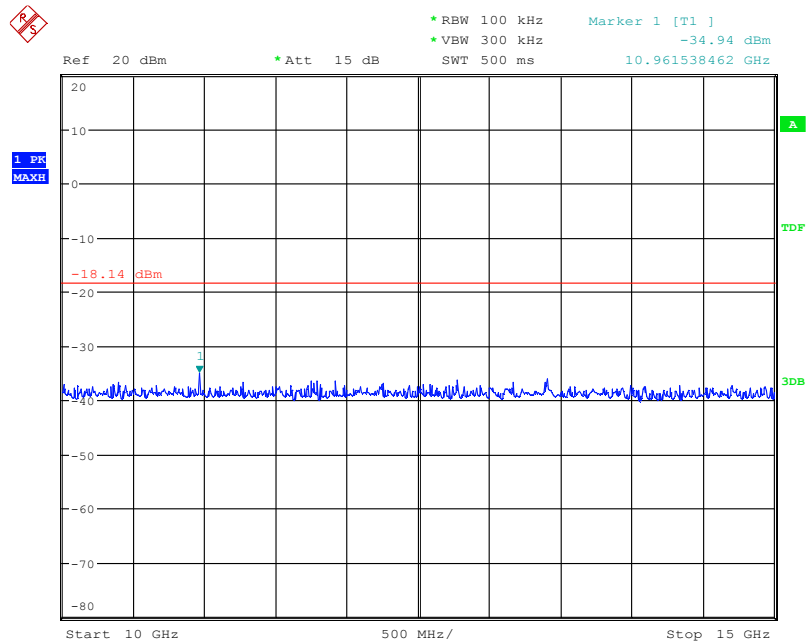
Date: 5.MAR.2013 17:01:53

**Fig. 43 Conducted Spurious Emission (802.11g, Ch1, 2.5 GHz-7.5 GHz)**



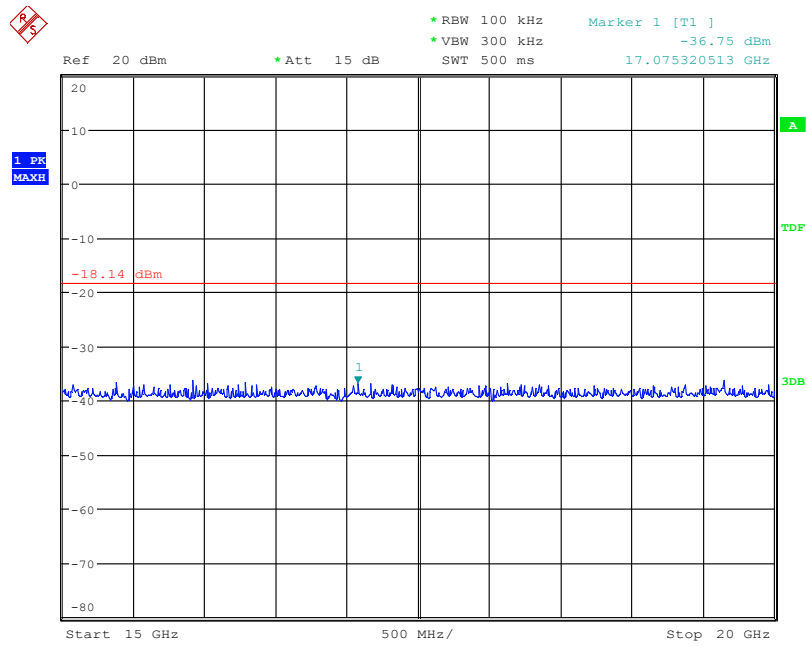
Date: 5.MAR.2013 17:02:00

**Fig. 44 Conducted Spurious Emission (802.11g, Ch1, 7.5 GHz-10 GHz)**



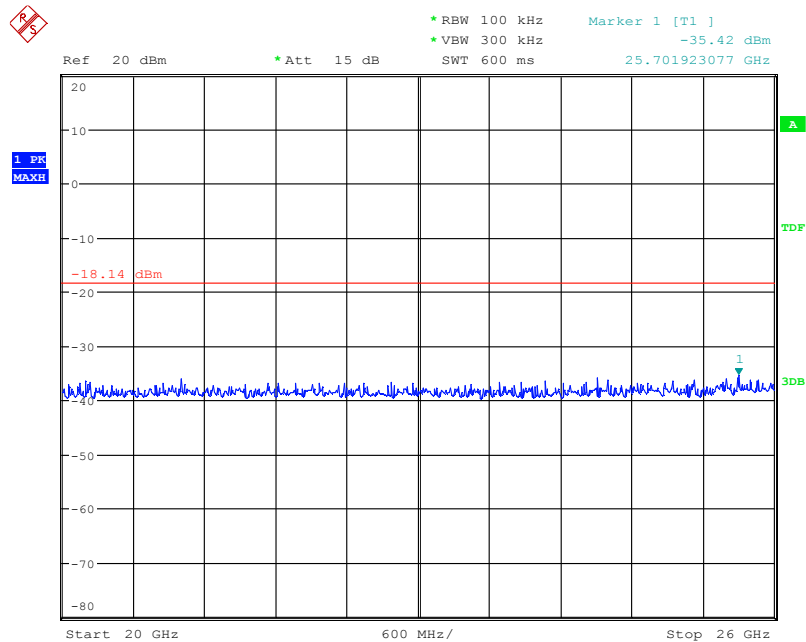
Date: 5.MAR.2013 17:02:06

**Fig. 45 Conducted Spurious Emission (802.11g, Ch1, 10 GHz-15 GHz)**



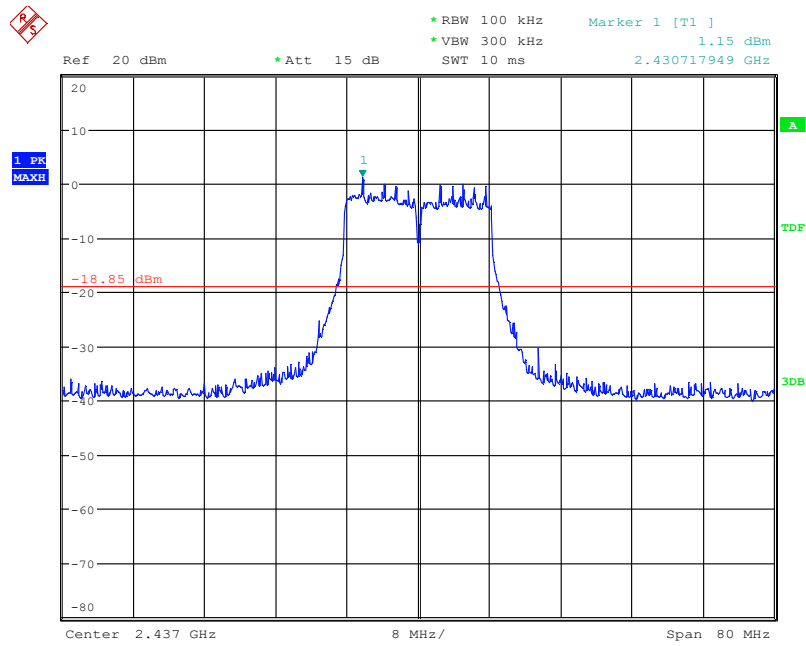
Date: 5.MAR.2013 17:02:12

**Fig. 46 Conducted Spurious Emission (802.11g, Ch1, 15 GHz-20 GHz)**



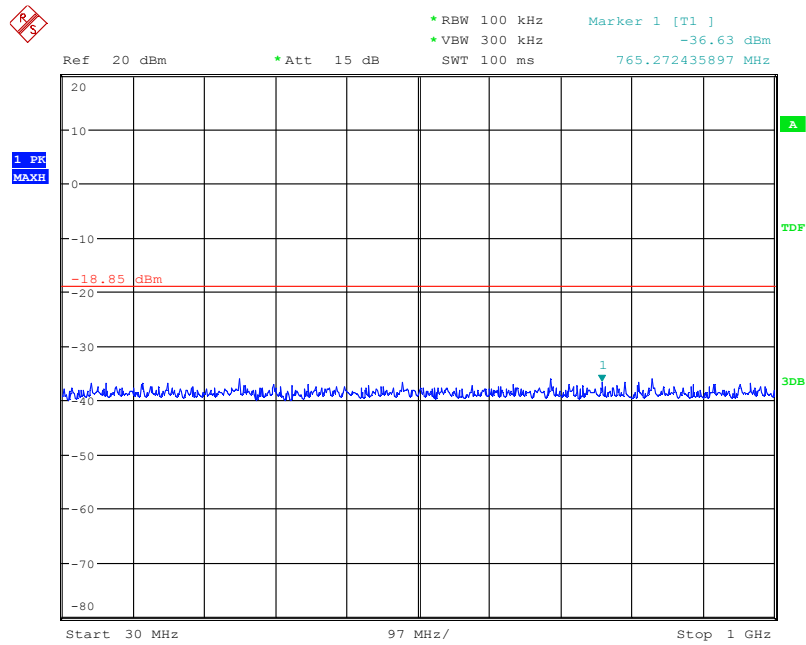
Date: 5.MAR.2013 17:02:19

**Fig. 47 Conducted Spurious Emission (802.11g, Ch1, 20 GHz-26 GHz)**



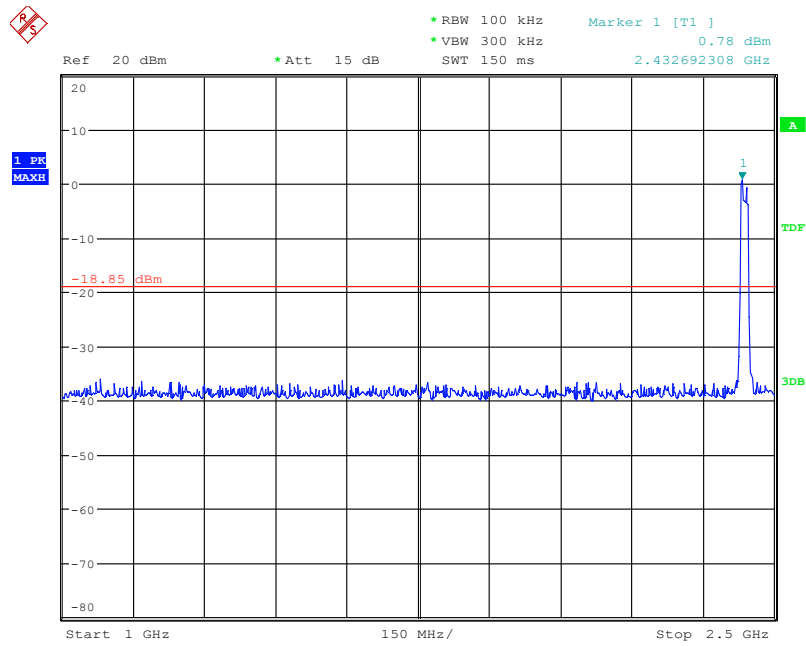
Date: 5.MAR.2013 17:03:02

**Fig. 48 Conducted Spurious Emission (802.11g, Ch6, Center Frequency)**



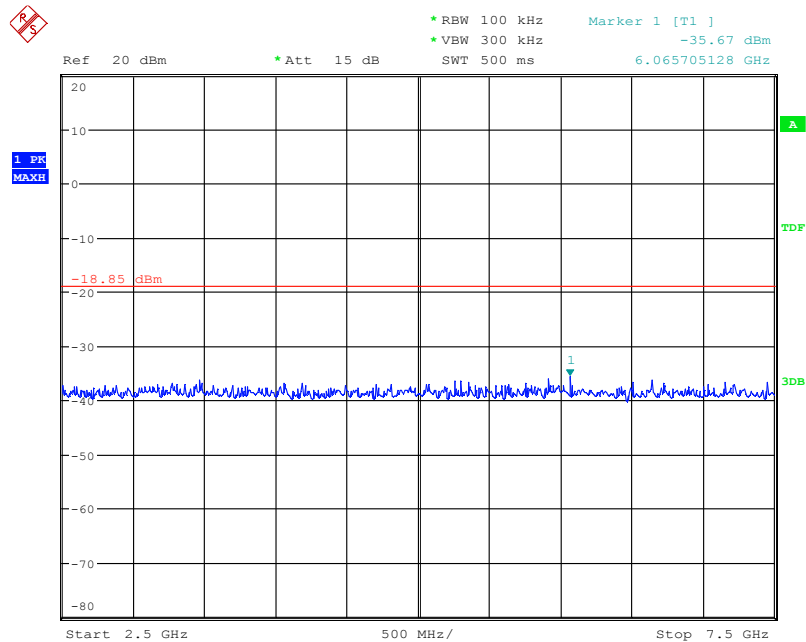
Date: 5.MAR.2013 17:03:09

**Fig. 49 Conducted Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)**



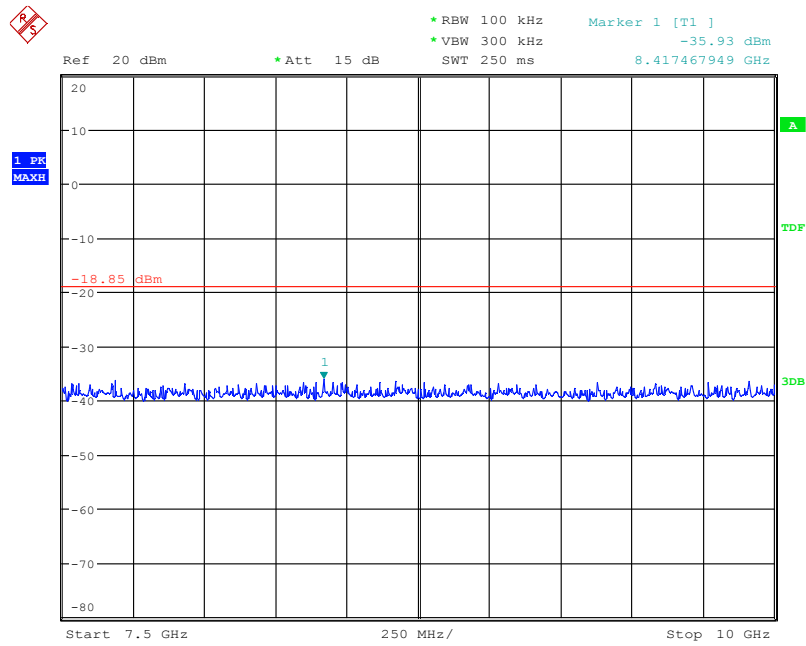
Date: 5.MAR.2013 17:03:15

**Fig. 50 Conducted Spurious Emission (802.11g, Ch6, 1 GHz-2.5 GHz)**



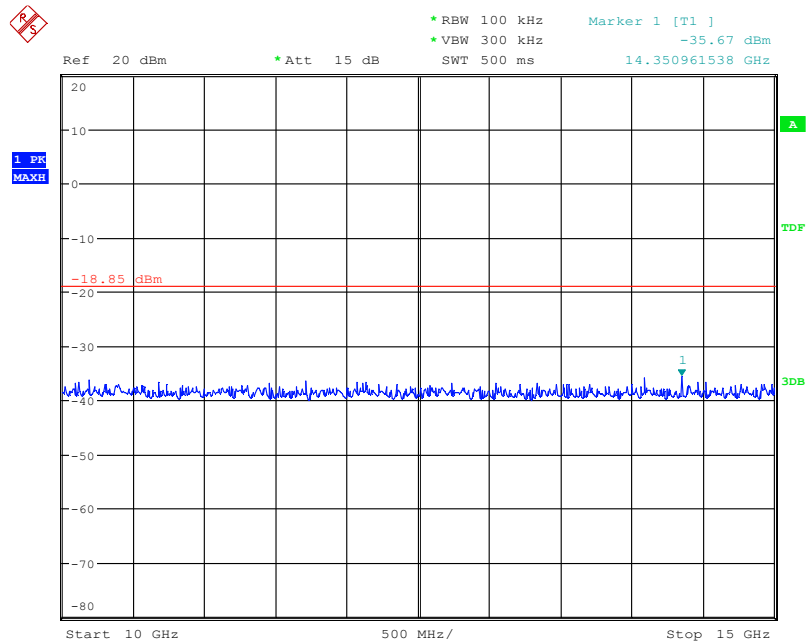
Date: 5.MAR.2013 17:03:21

**Fig. 51 Conducted Spurious Emission (802.11g, Ch6, 2.5 GHz-7.5 GHz)**



Date: 5.MAR.2013 17:03:27

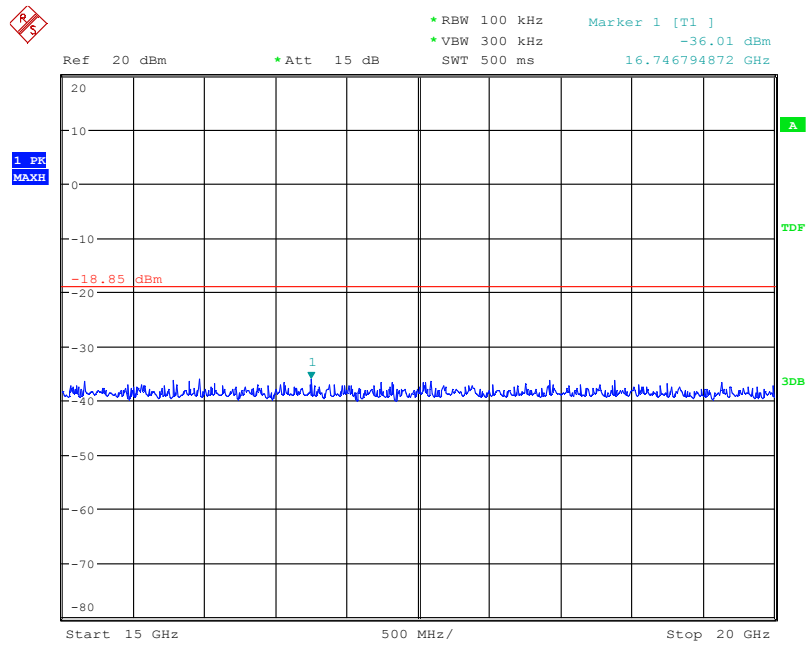
**Fig. 52 Conducted Spurious Emission (802.11g, Ch6, 7.5 GHz-10 GHz)**



Date: 5.MAR.2013 17:03:34

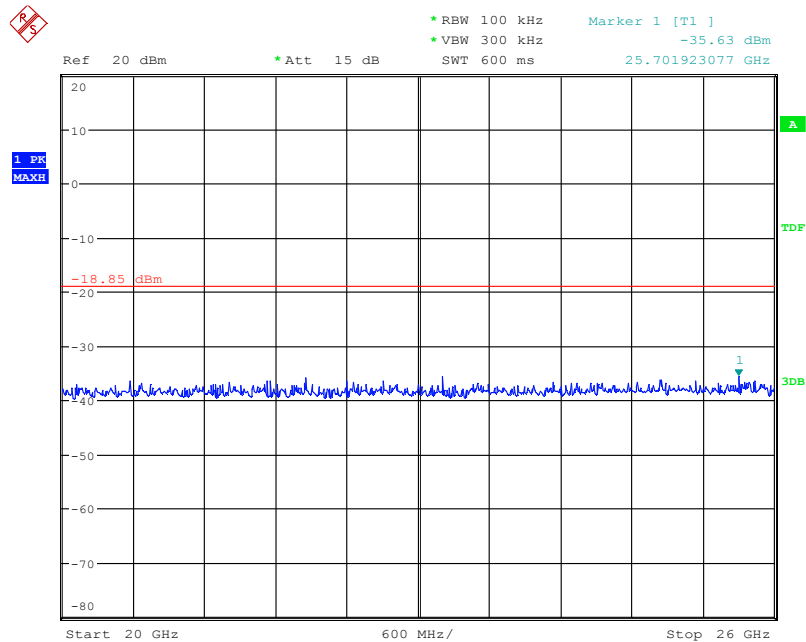
**Fig. 53 Conducted Spurious Emission (802.11g, Ch6, 10 GHz-15 GHz)**





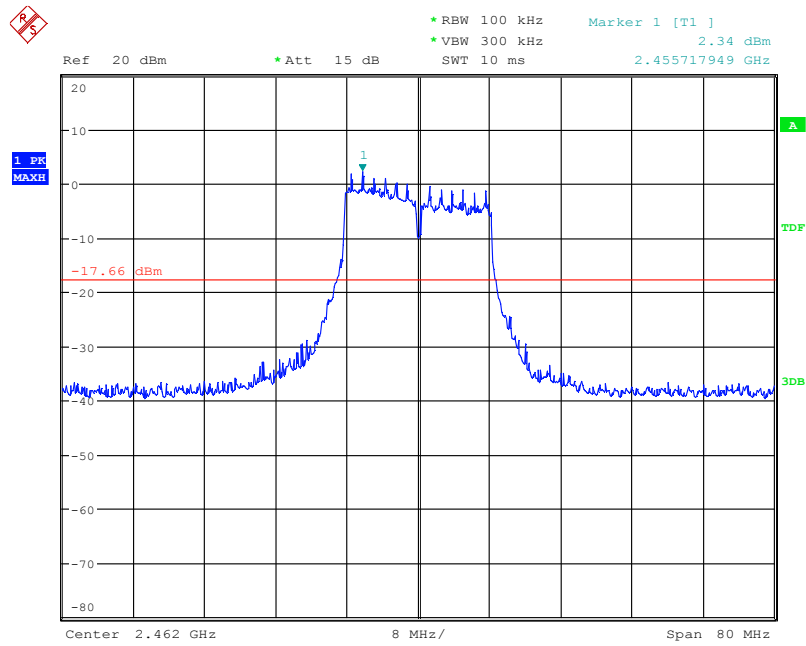
Date: 5.MAR.2013 17:03:40

**Fig. 54 Conducted Spurious Emission (802.11g, Ch6, 15 GHz-20 GHz)**



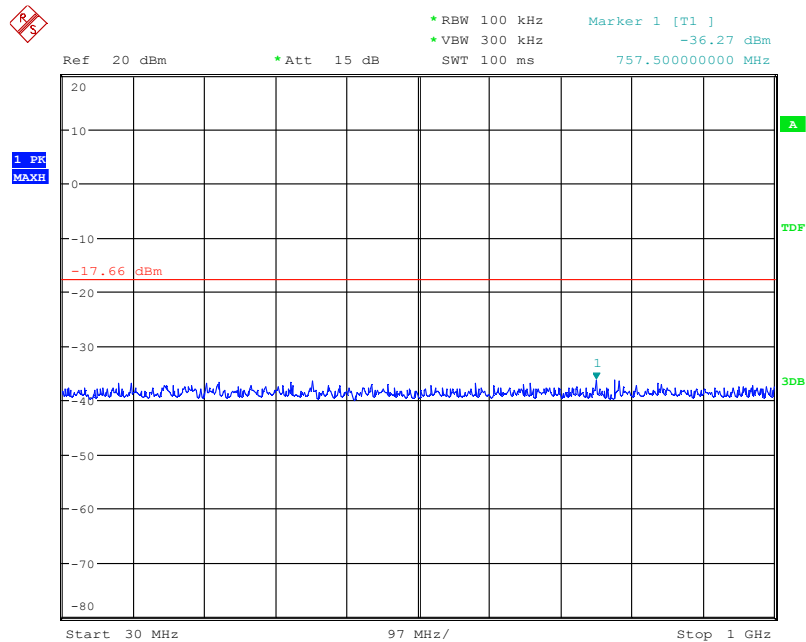
Date: 5.MAR.2013 17:03:47

**Fig. 55 Conducted Spurious Emission (802.11g, Ch6, 20 GHz-26 GHz)**



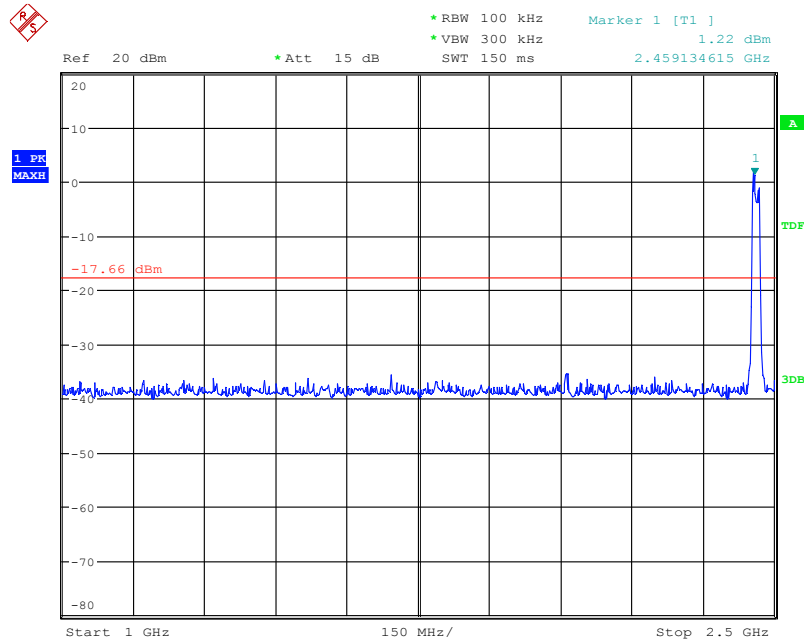
Date: 5.MAR.2013 17:04:24

**Fig. 56 Conducted Spurious Emission (802.11g, Ch11, Center Frequency)**



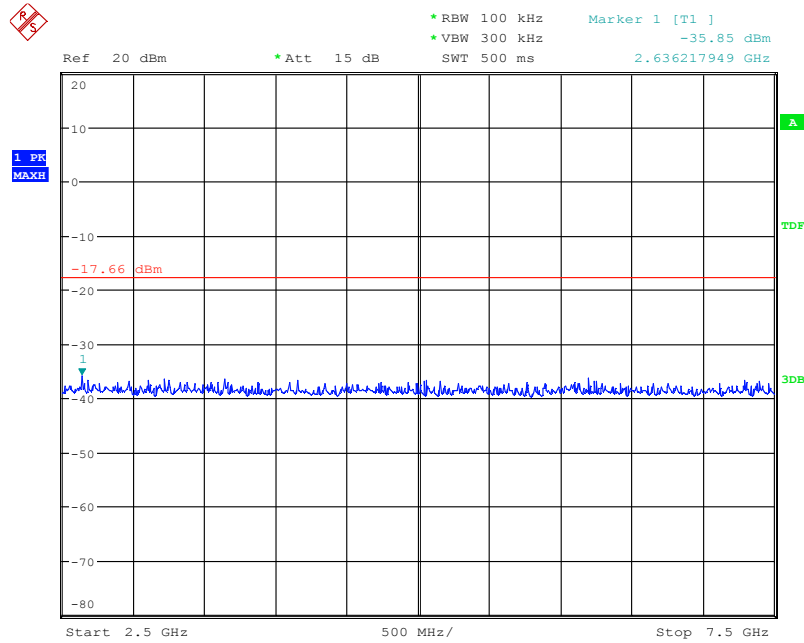
Date: 5.MAR.2013 17:04:31

**Fig. 57 Conducted Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)**



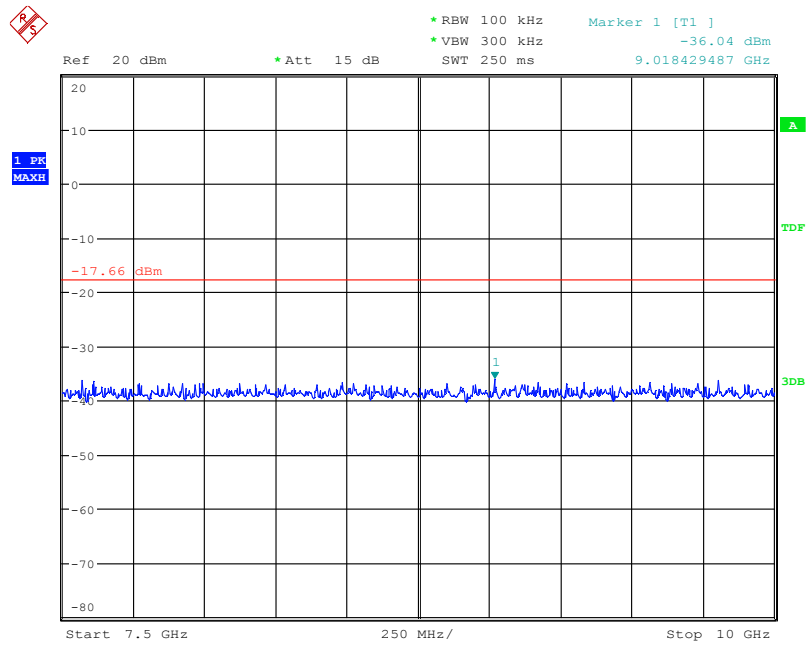
Date: 5.MAR.2013 17:04:37

**Fig. 58 Conducted Spurious Emission (802.11g, Ch11, 1 GHz-2.5 GHz)**



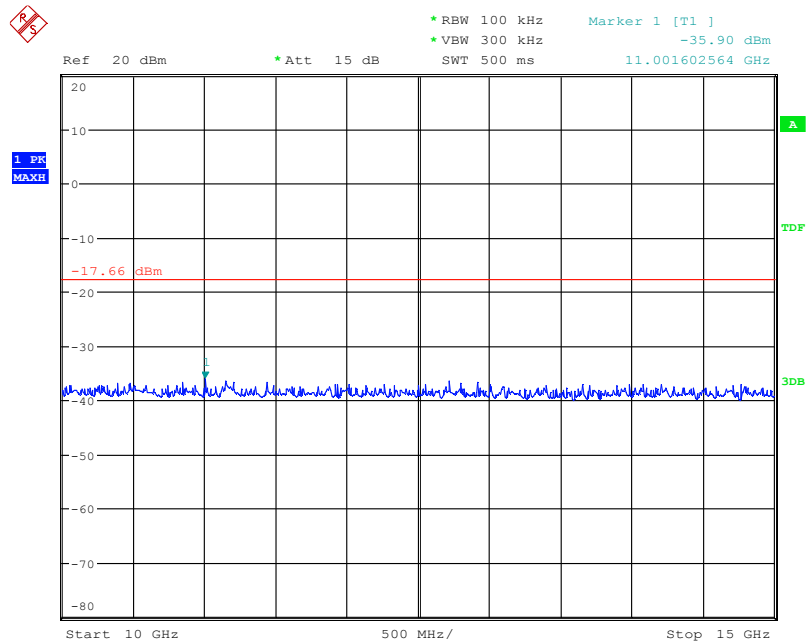
Date: 5.MAR.2013 17:04:44

**Fig. 59 Conducted Spurious Emission (802.11g, Ch11, 2.5 GHz-7.5 GHz)**



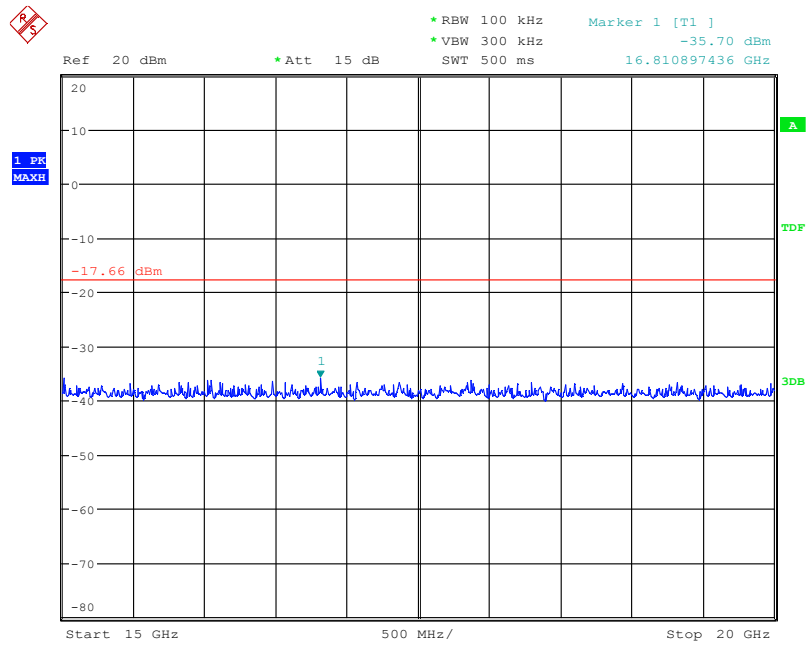
Date: 5.MAR.2013 17:04:50

**Fig. 60 Conducted Spurious Emission (802.11g, Ch11, 7.5 GHz-10 GHz)**



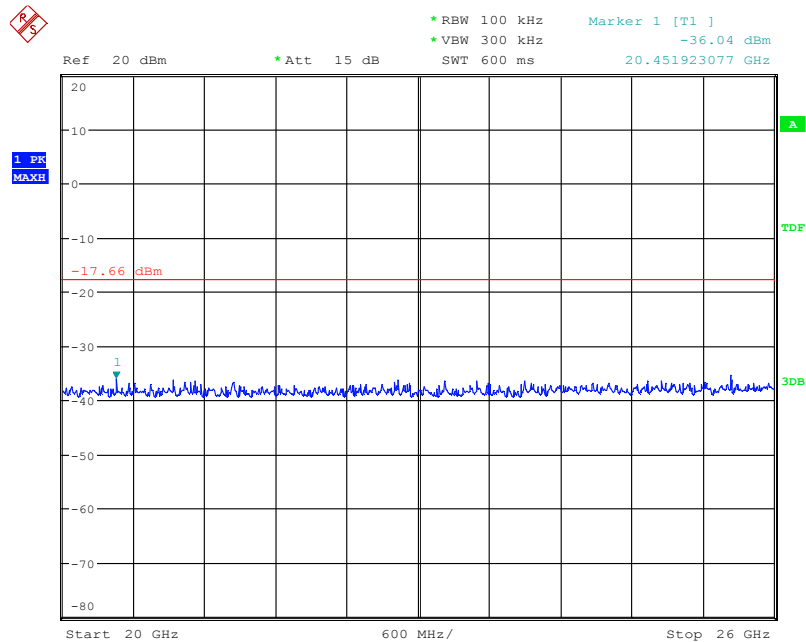
Date: 5.MAR.2013 17:04:57

**Fig. 61 Conducted Spurious Emission (802.11g, Ch11, 10 GHz-15 GHz)**



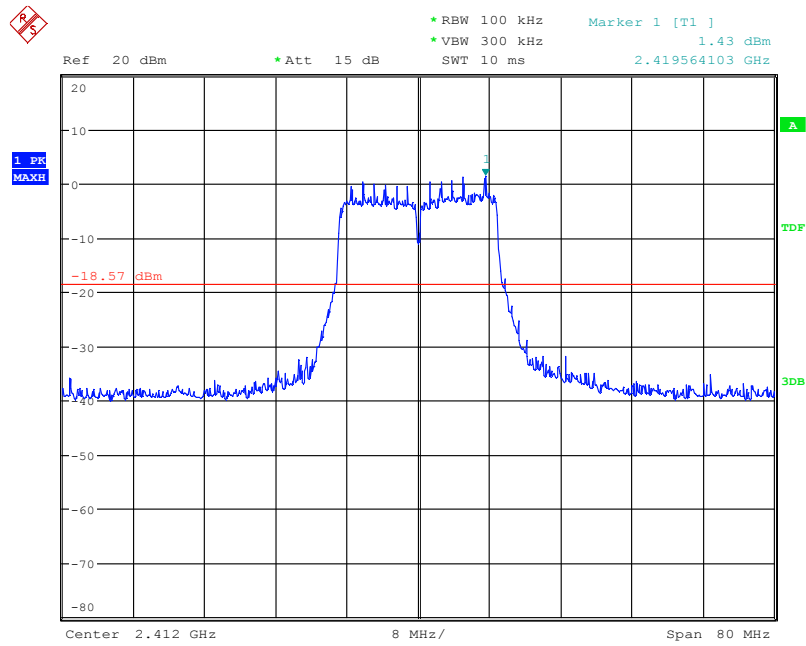
Date: 5.MAR.2013 17:05:04

**Fig. 62 Conducted Spurious Emission (802.11g, Ch11, 15 GHz-20 GHz)**



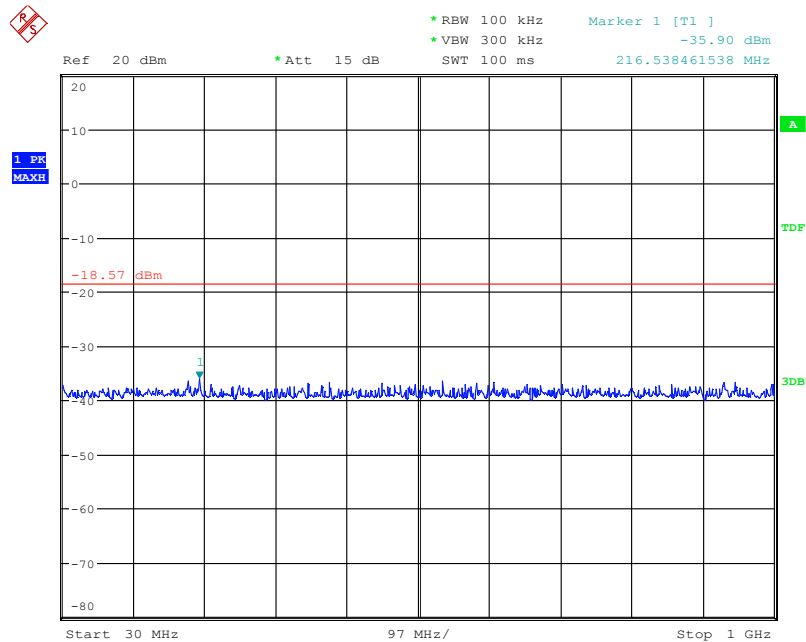
Date: 5.MAR.2013 17:05:10

**Fig. 63 Conducted Spurious Emission (802.11g, Ch11, 20 GHz-26 GHz)**



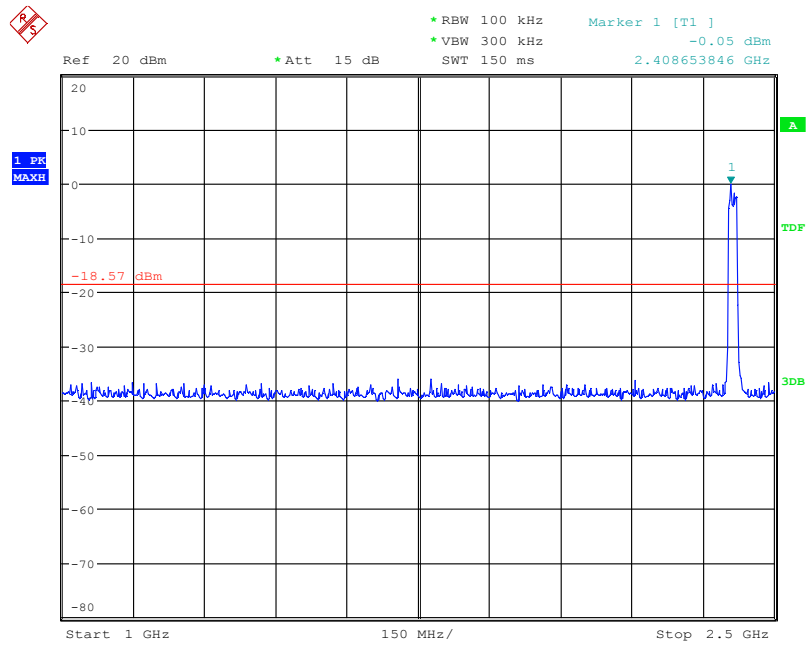
Date: 5.MAR.2013 17:16:33

**Fig. 64 Conducted Spurious Emission (802.11n-HT20, Ch1, Center Frequency)**



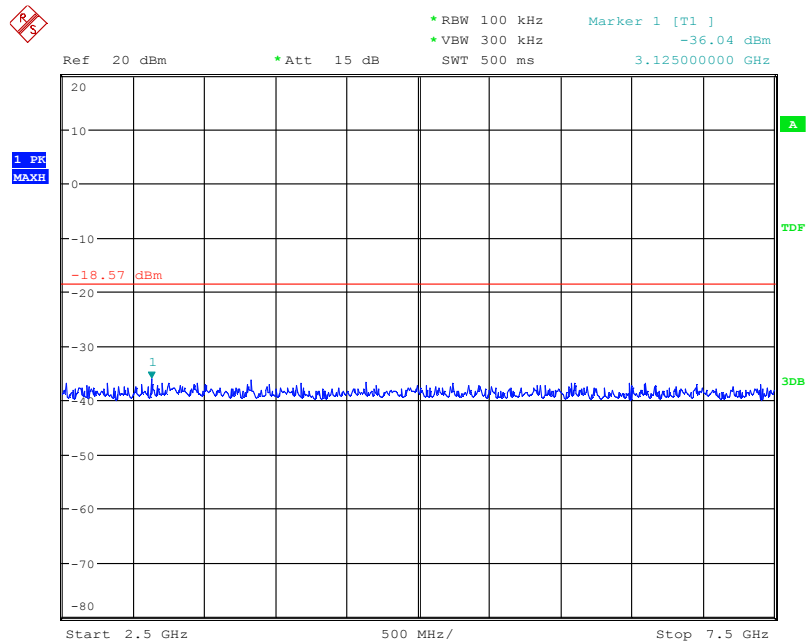
Date: 5.MAR.2013 17:16:39

**Fig. 65 Conducted Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)**



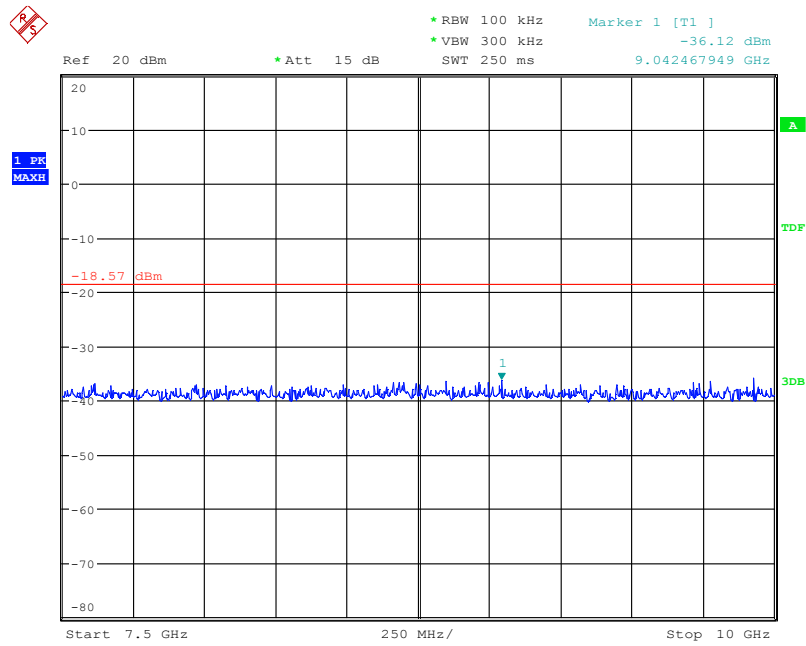
Date: 5.MAR.2013 17:16:45

**Fig. 66 Conducted Spurious Emission (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)**



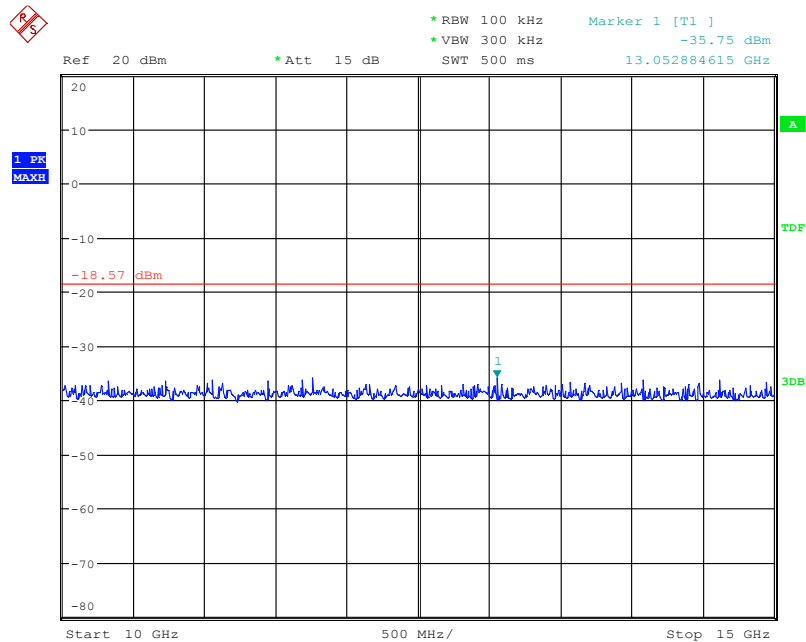
Date: 5.MAR.2013 17:16:51

**Fig. 67 Conducted Spurious Emission (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)**



Date: 5.MAR.2013 17:16:57

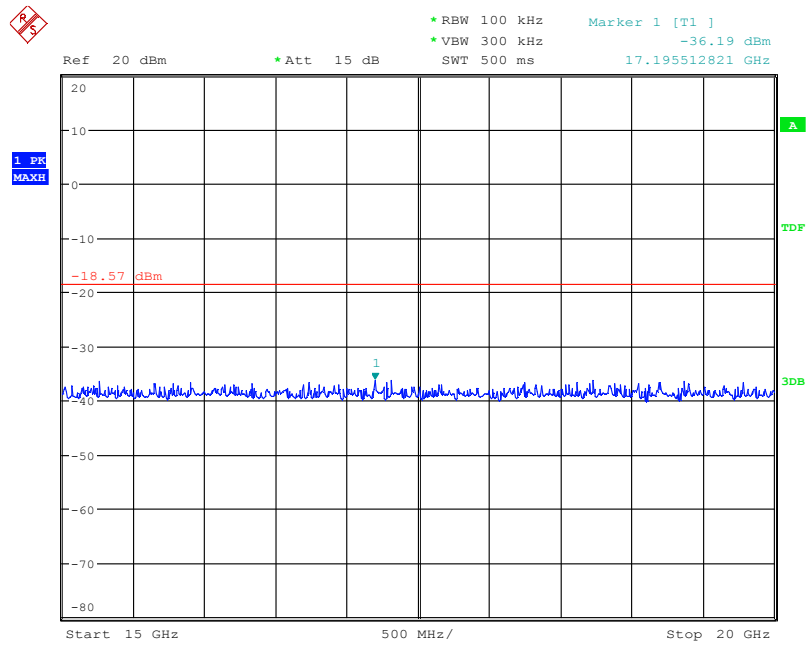
**Fig. 68 Conducted Spurious Emission (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)**



Date: 5.MAR.2013 17:17:03

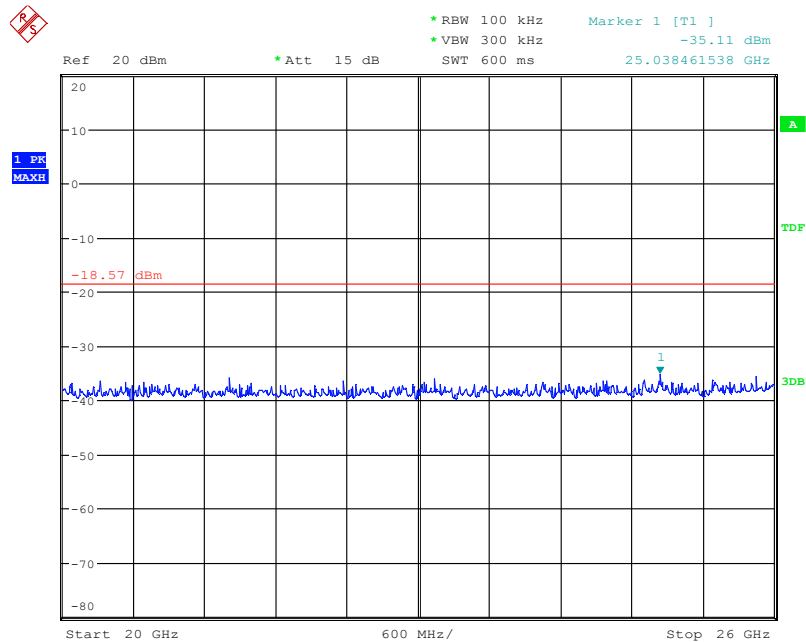
**Fig. 69 Conducted Spurious Emission (802.11n-HT20, Ch1, 10 GHz-15 GHz)**





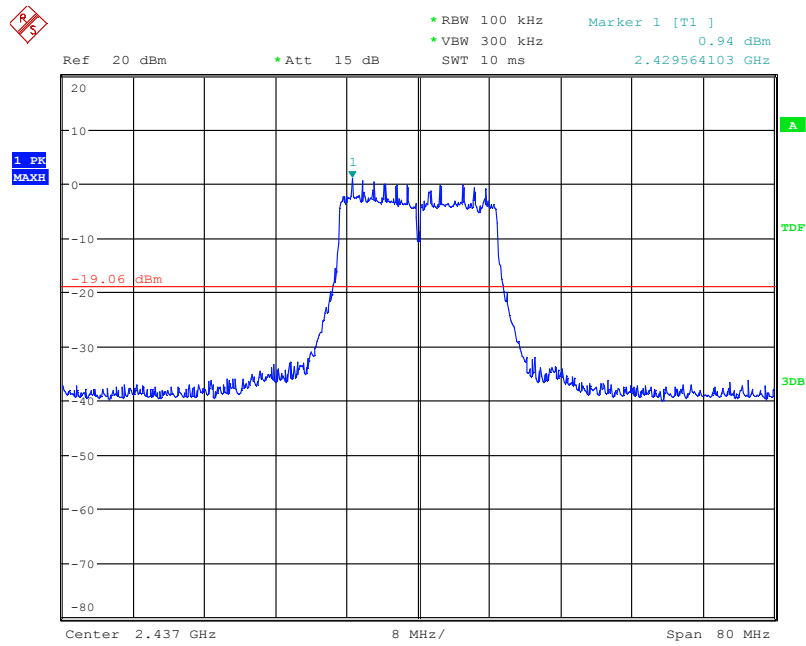
Date: 5.MAR.2013 17:17:09

**Fig. 70 Conducted Spurious Emission (802.11n-HT20, Ch1, 15 GHz-20 GHz)**



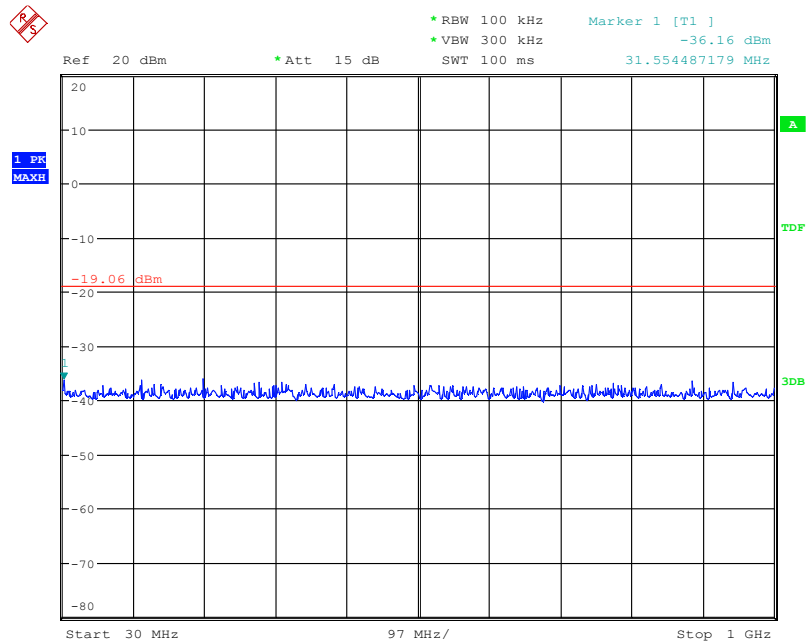
Date: 5.MAR.2013 17:17:15

**Fig. 71 Conducted Spurious Emission (802.11n-HT20, Ch1, 20 GHz-26 GHz)**



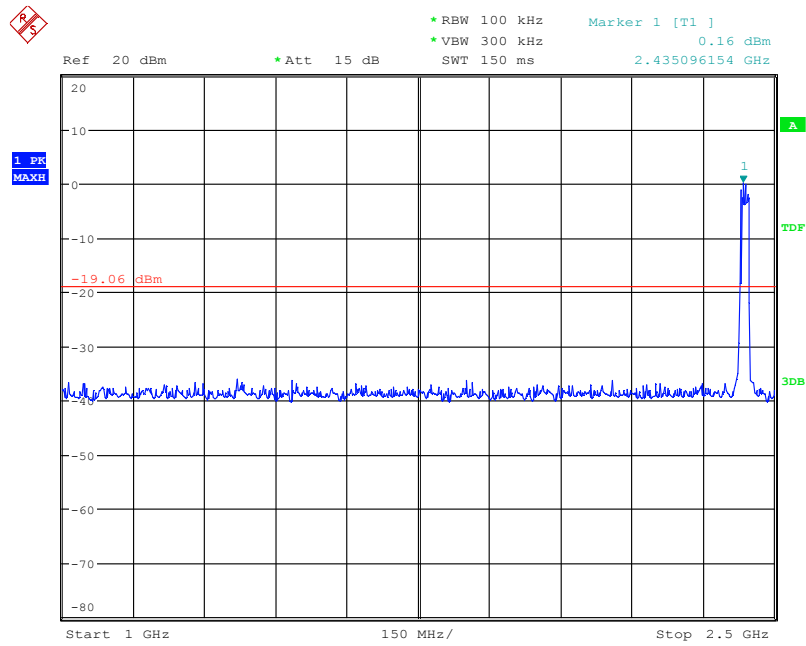
Date: 5.MAR.2013 17:17:42

**Fig. 72 Conducted Spurious Emission (802.11n-HT20, Ch6, Center Frequency)**



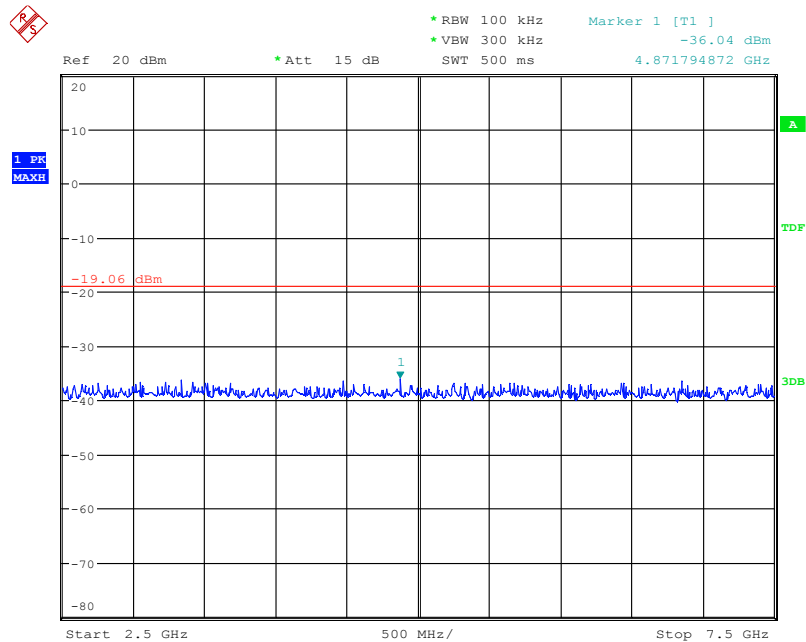
Date: 5.MAR.2013 17:17:48

**Fig. 73 Conducted Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)**



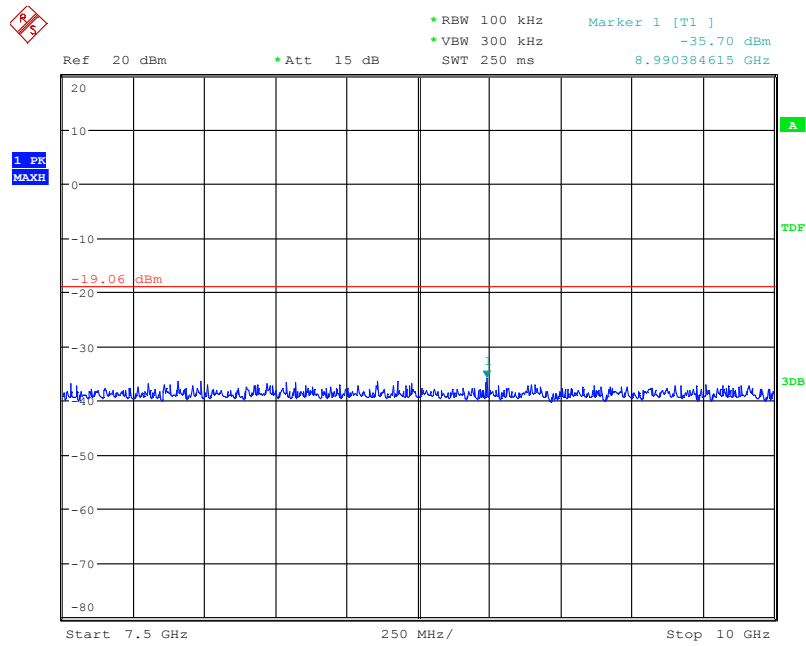
Date: 5.MAR.2013 17:17:54

**Fig. 74 Conducted Spurious Emission (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)**



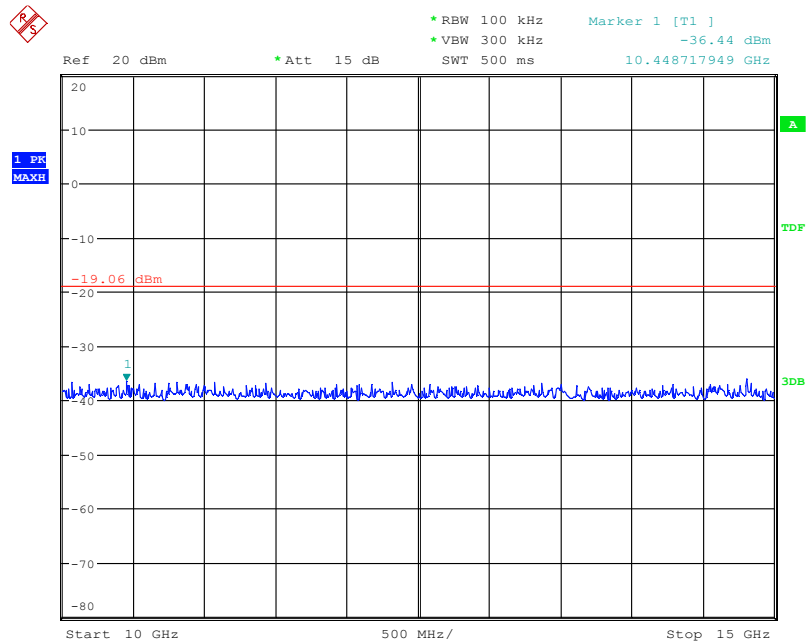
Date: 5.MAR.2013 17:18:01

**Fig. 75 Conducted Spurious Emission (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)**



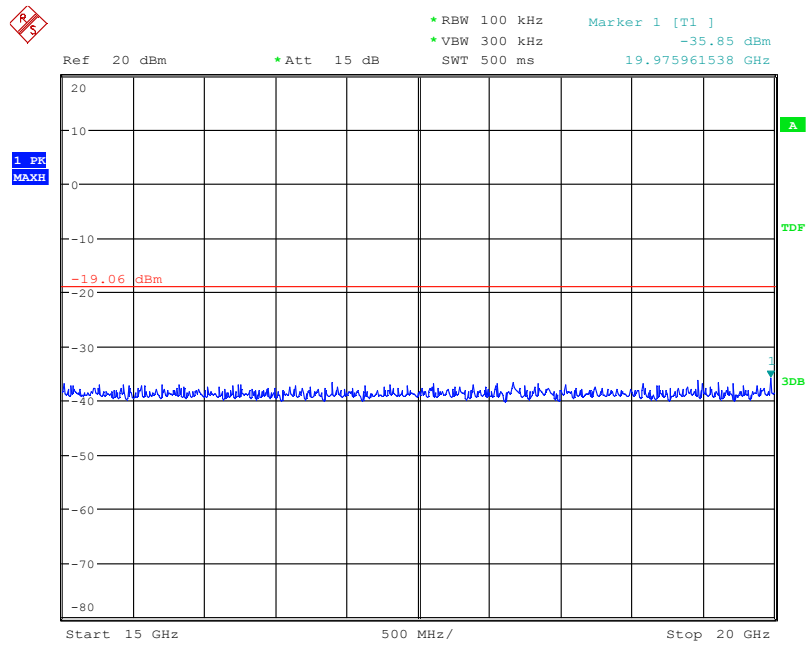
Date: 5.MAR.2013 17:18:06

**Fig. 76 Conducted Spurious Emission (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)**



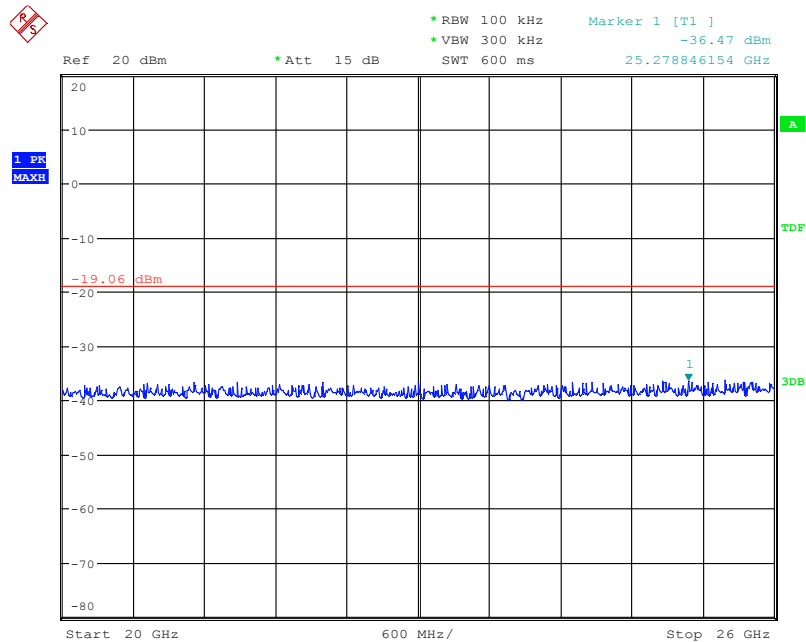
Date: 5.MAR.2013 17:18:12

**Fig. 77 Conducted Spurious Emission (802.11n-HT20, Ch6, 10 GHz-15 GHz)**



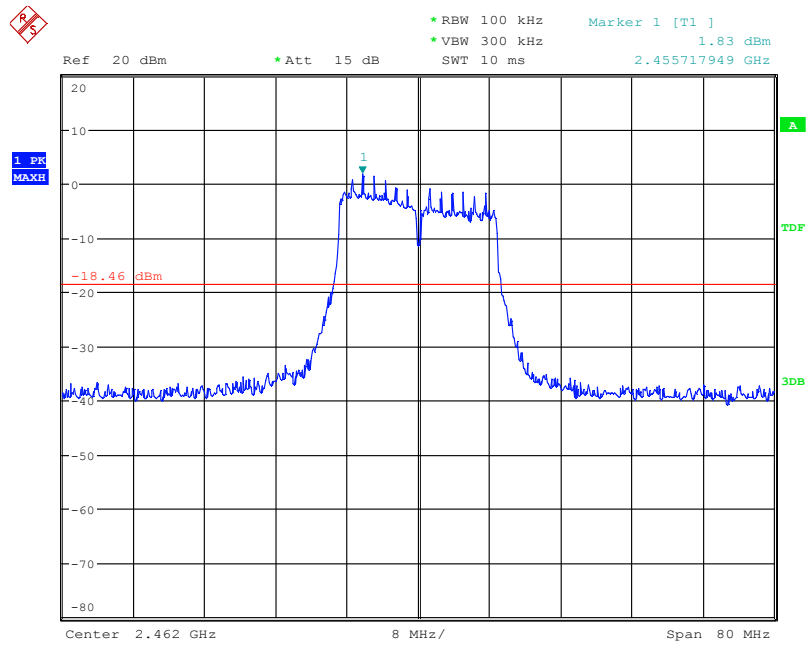
Date: 5.MAR.2013 17:18:18

**Fig. 78 Conducted Spurious Emission (802.11n-HT20, Ch6, 15 GHz-20 GHz)**



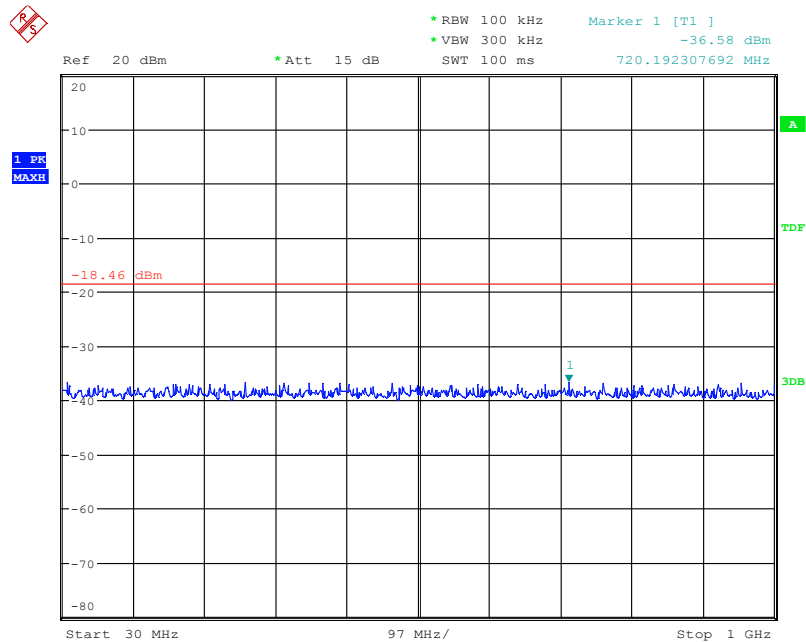
Date: 5.MAR.2013 17:18:24

**Fig. 79 Conducted Spurious Emission (802.11n-HT20, Ch6, 20 GHz-26 GHz)**



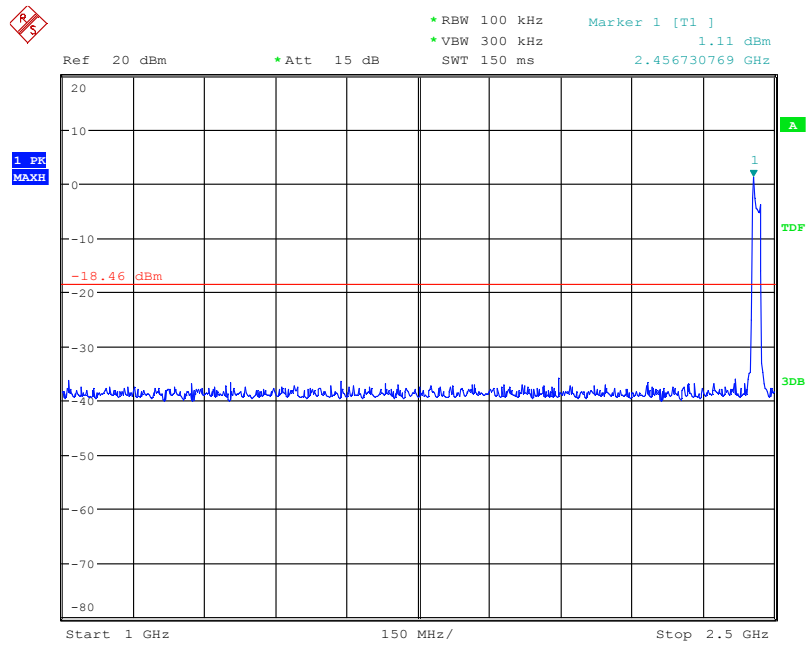
Date: 5.MAR.2013 17:18:49

**Fig. 80 Conducted Spurious Emission (802.11n-HT20, Ch11, Center Frequency)**



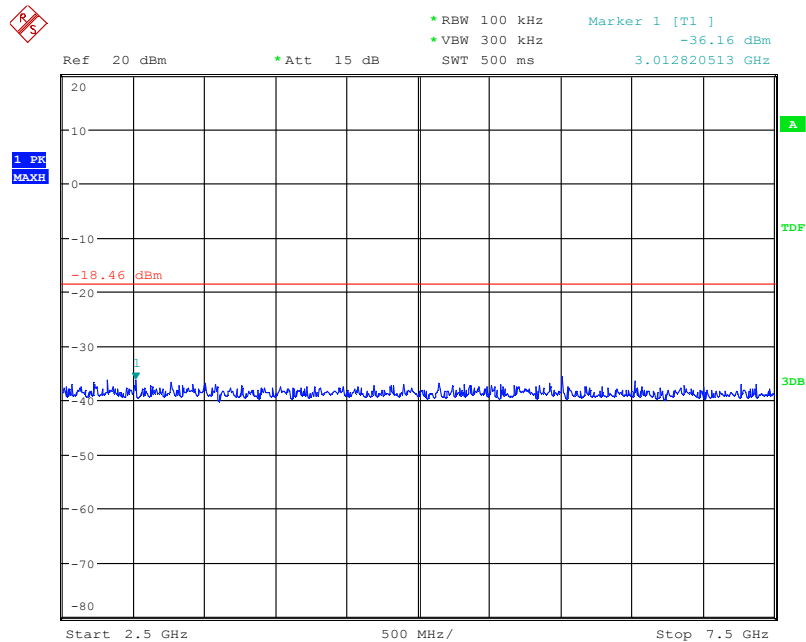
Date: 5.MAR.2013 17:18:55

**Fig. 81 Conducted Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)**



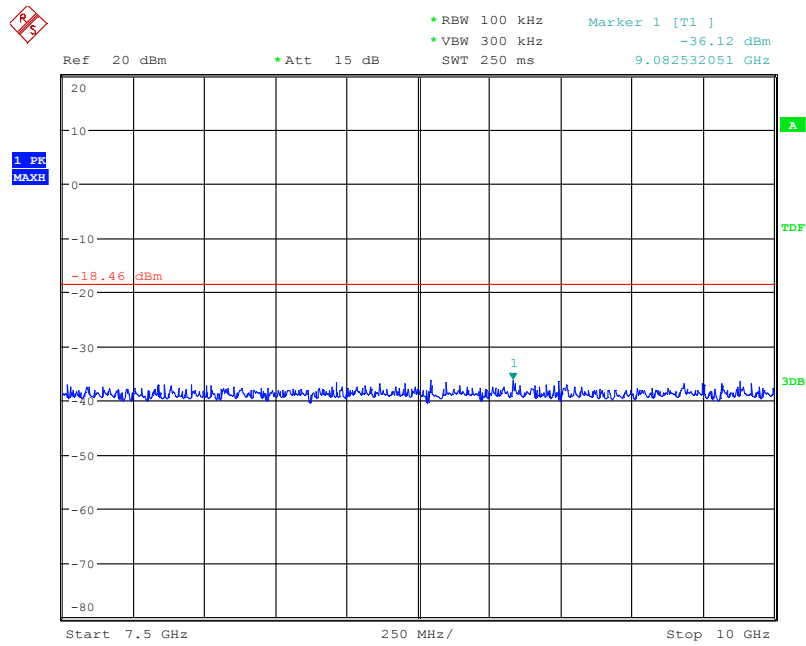
Date: 5.MAR.2013 17:19:02

**Fig. 82 Conducted Spurious Emission (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)**



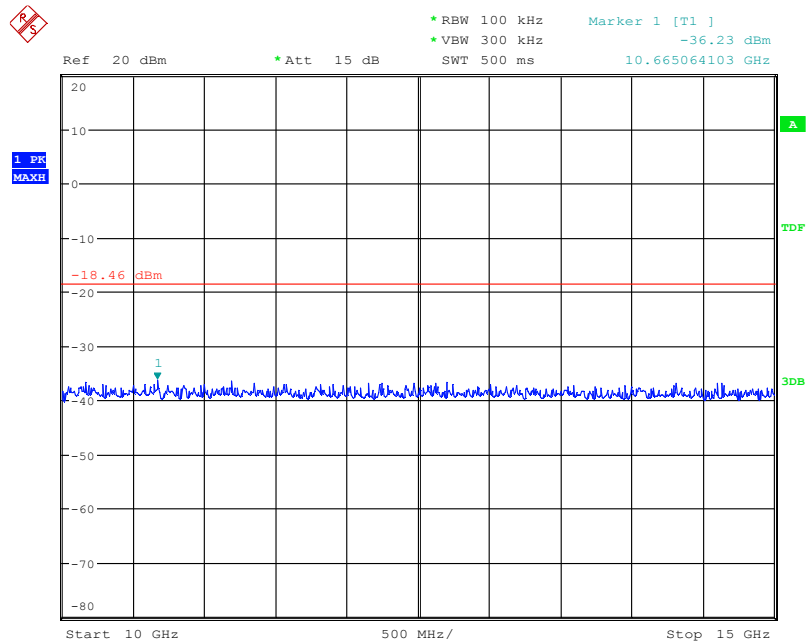
Date: 5.MAR.2013 17:19:08

**Fig. 83 Conducted Spurious Emission (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)**



Date: 5.MAR.2013 17:19:14

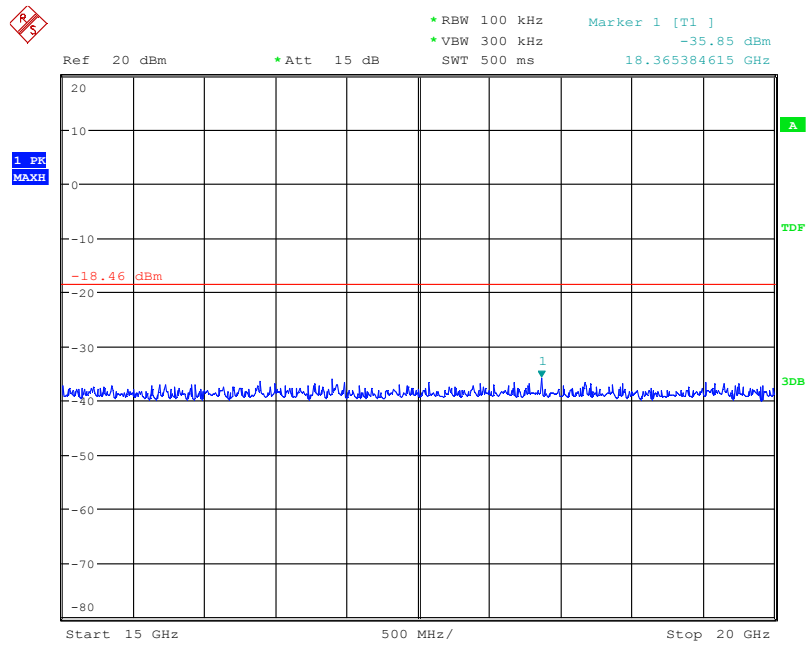
**Fig. 84 Conducted Spurious Emission (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)**



Date: 5.MAR.2013 17:19:21

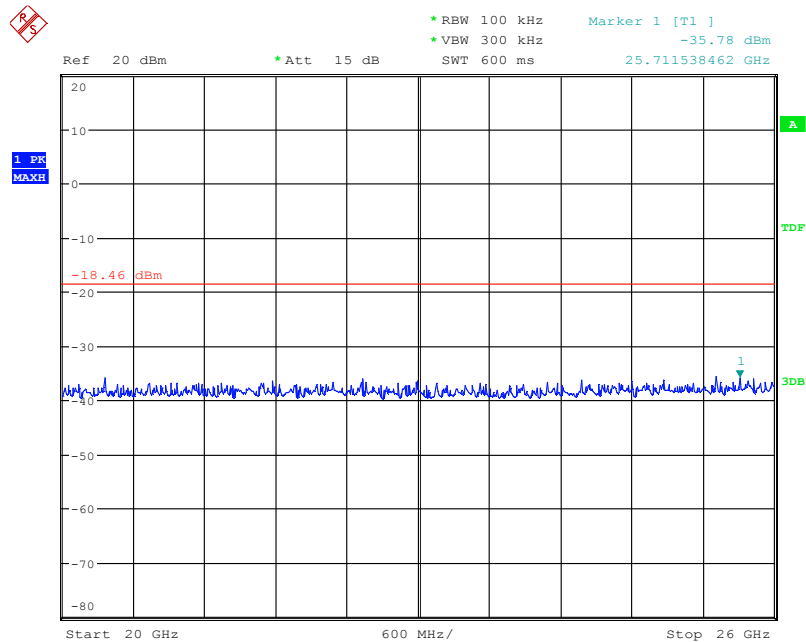
**Fig. 85 Conducted Spurious Emission (802.11n-HT20, Ch11, 10 GHz-15 GHz)**





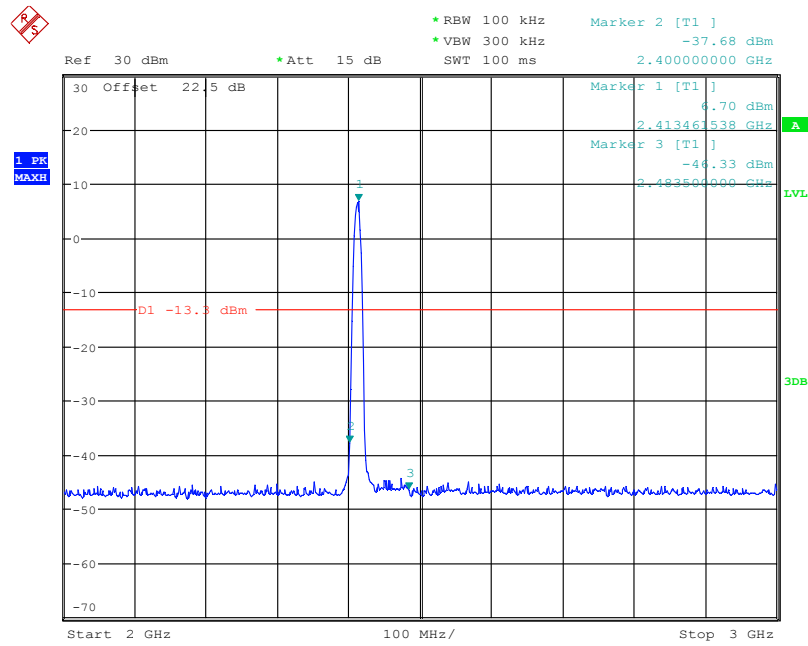
Date: 5.MAR.2013 17:19:27

**Fig. 86 Conducted Spurious Emission (802.11n-HT20, Ch11, 15 GHz-20 GHz)**



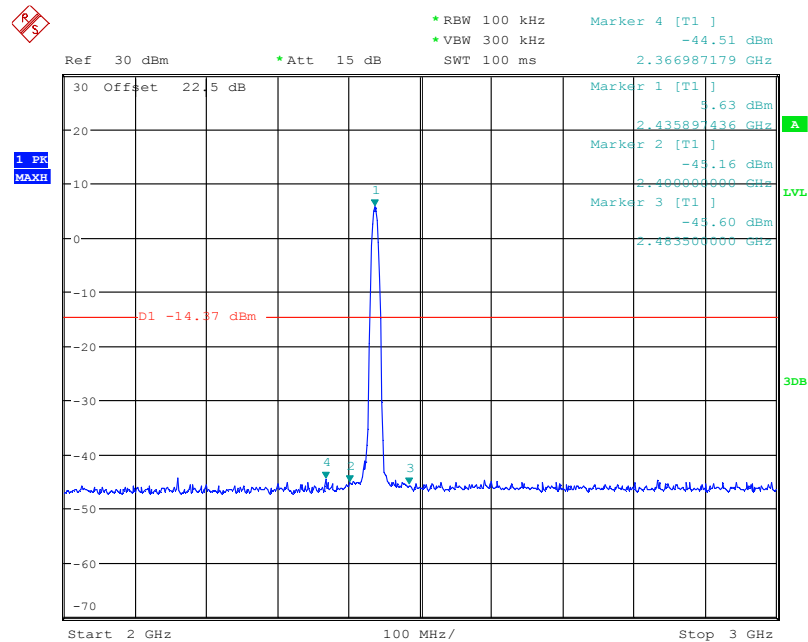
Date: 5.MAR.2013 17:19:34

**Fig. 87 Conducted Spurious Emission (802.11n-HT20, Ch11, 20 GHz-26 GHz)**



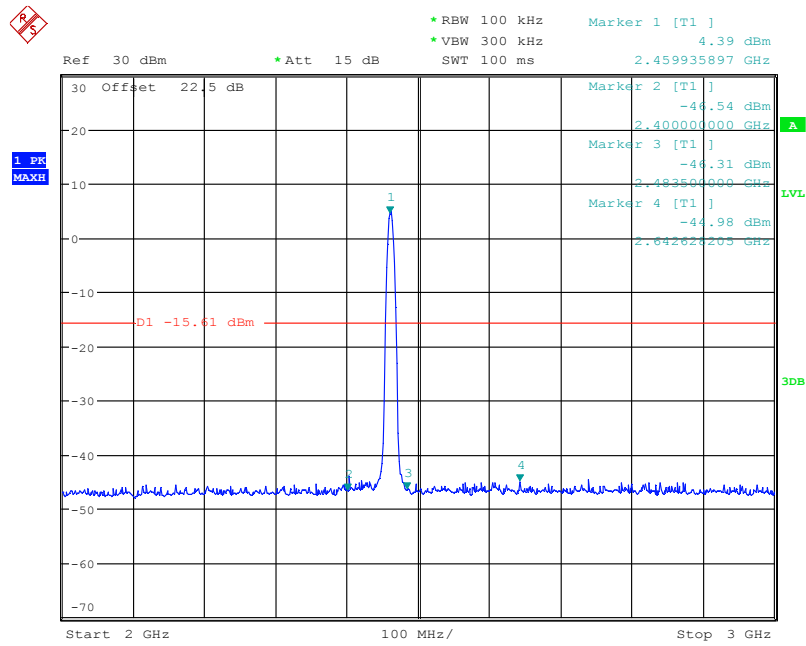
Date: 1.MAY.2013 10:03:08

**Fig. 88 Conducted Spurious Emission-Worst case results (802.11b, Ch1)**



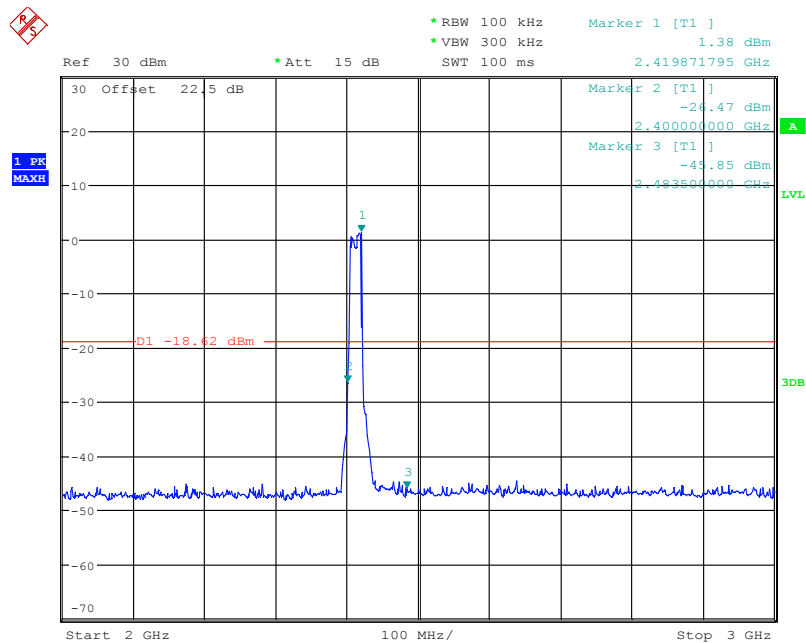
Date: 1.MAY.2013 10:18:16

**Fig. 89 Conducted Spurious Emission-Worst case results (802.11b, Ch6)**



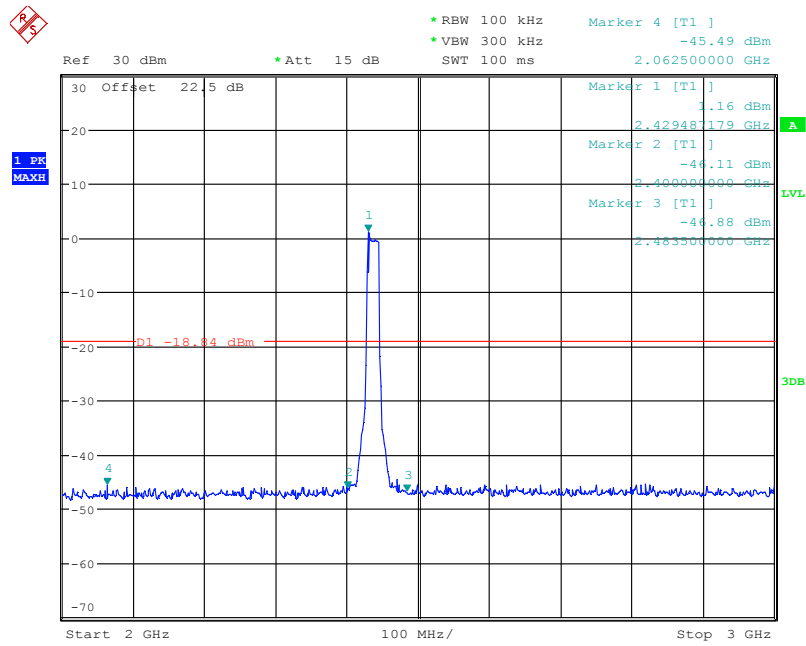
Date: 1.MAY.2013 10:21:27

**Fig. 90 Conducted Spurious Emission-Worst case results (802.11b, Ch11)**



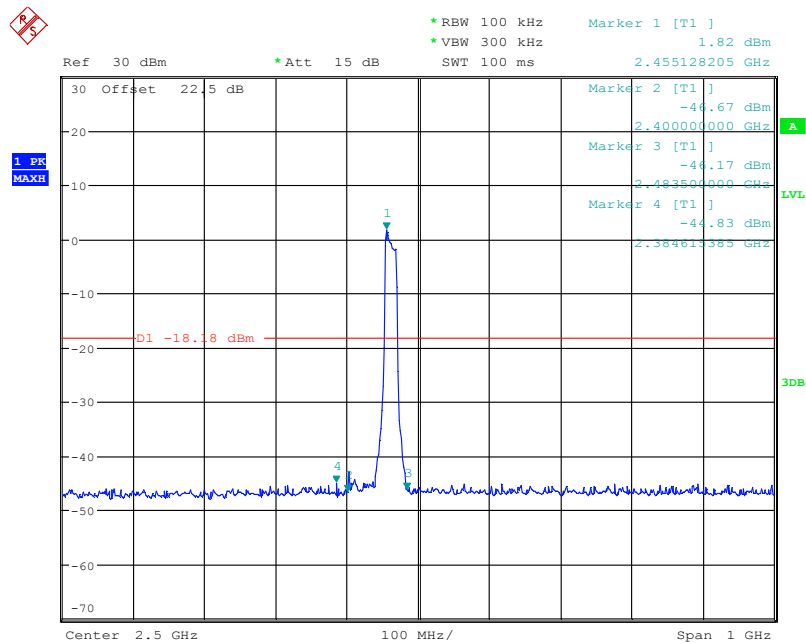
Date: 1.MAY.2013 10:25:28

**Fig. 91 Conducted Spurious Emission-Worst case results (802.11g, Ch1)**



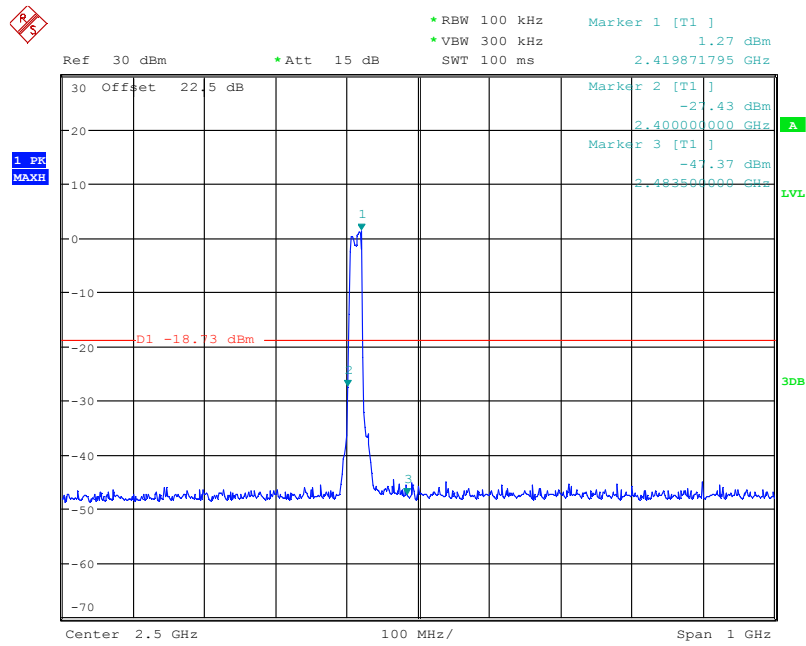
Date: 1.MAY.2013 10:35:41

Fig. 92 Conducted Spurious Emission-Worst case results (802.11g, Ch6)



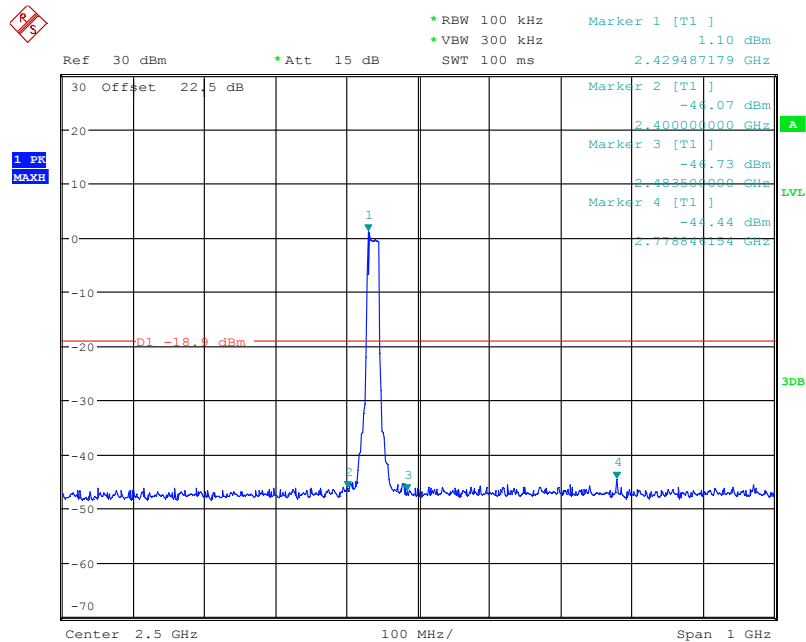
Date: 1.MAY.2013 10:40:09

Fig. 93 Conducted Spurious Emission-Worst case results (802.11g, Ch11)



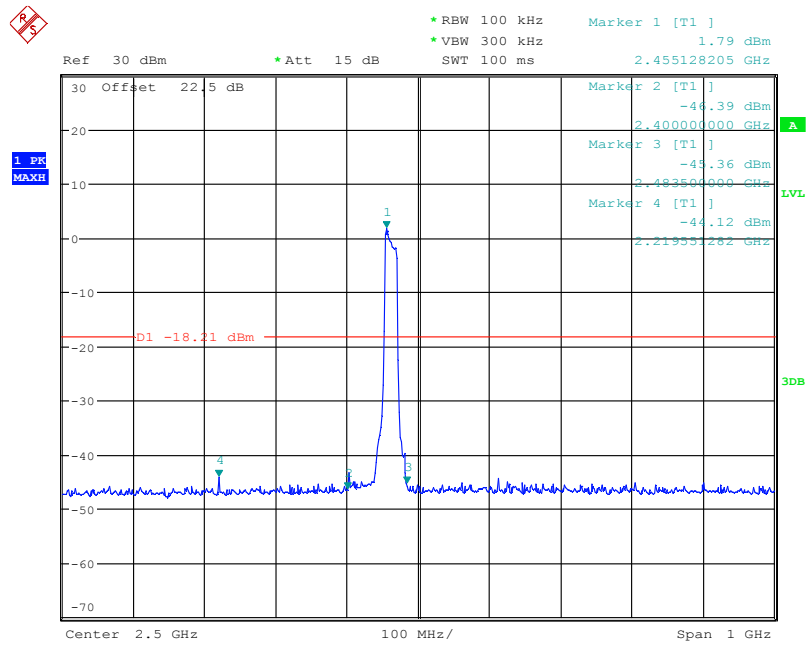
Date: 1.MAY.2013 10:45:32

**Fig. 94 Conducted Spurious Emission-Worst case results (802.11n, Ch1)**



Date: 1.MAY.2013 10:49:02

**Fig. 95 Conducted Spurious Emission-Worst case results (802.11n, Ch6)**



Date: 1.MAY.2013 10:53:37

**Fig. 96 Conducted Spurious Emission-Worst case results (802.11n, Ch11)**

### A.6.2 Transmitter Spurious Emission - Radiated

Limit in restricted band:

#### Measurement Results:

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.45GHz	Fig.97	P
	1	30 MHz ~1 GHz	Fig.98	P
		1 GHz ~ 3 GHz	Fig.99	P
		3 GHz ~ 18 GHz	Fig.100	P
	6	30 MHz ~1 GHz	Fig.101	P
		1 GHz ~ 3 GHz	Fig.102	P
		3 GHz ~ 18 GHz	Fig.103	P
	Power	2.45GHz ~2.5GHz	Fig.104	P
	11	30 MHz ~1 GHz	Fig.105	P
		1 GHz ~ 3 GHz	Fig.106	P
		3 GHz ~ 18 GHz	Fig.107	P
	802.11g	Power	2.38GHz ~2.45GHz	Fig.108
1		30 MHz ~1 GHz	Fig.109	P
		1 GHz ~ 3 GHz	Fig.110	P
		3 GHz ~ 18 GHz	Fig.111	P
6		30 MHz ~1 GHz	Fig.112	P
		1 GHz ~ 3 GHz	Fig.113	P
		3 GHz ~ 18 GHz	Fig.114	P
Power		2.45GHz~2.5GHz	Fig.115	P
11		30 MHz ~1 GHz	Fig.116	P
		1 GHz ~ 3 GHz	Fig.117	P
		3 GHz ~ 18 GHz	Fig.118	P
802.11n		Power	2.38GHz ~2.45GHz	Fig.119
	1	30 MHz ~1 GHz	Fig.120	P
		1 GHz ~ 3 GHz	Fig.121	P
		3 GHz ~ 18 GHz	Fig.122	P
	6	30 MHz ~1 GHz	Fig.123	P
		1 GHz ~ 3 GHz	Fig.124	P
		3 GHz ~ 18 GHz	Fig.125	P
	Power	2.45GHz~2.5GHz	Fig.126	P
	11	30 MHz ~1 GHz	Fig.127	P
		1 GHz ~ 3 GHz	Fig.128	P
		3 GHz ~ 18 GHz	Fig.129	P
	/	All channels	18 GHz~ 26.5 GHz	Fig.130

**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:

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

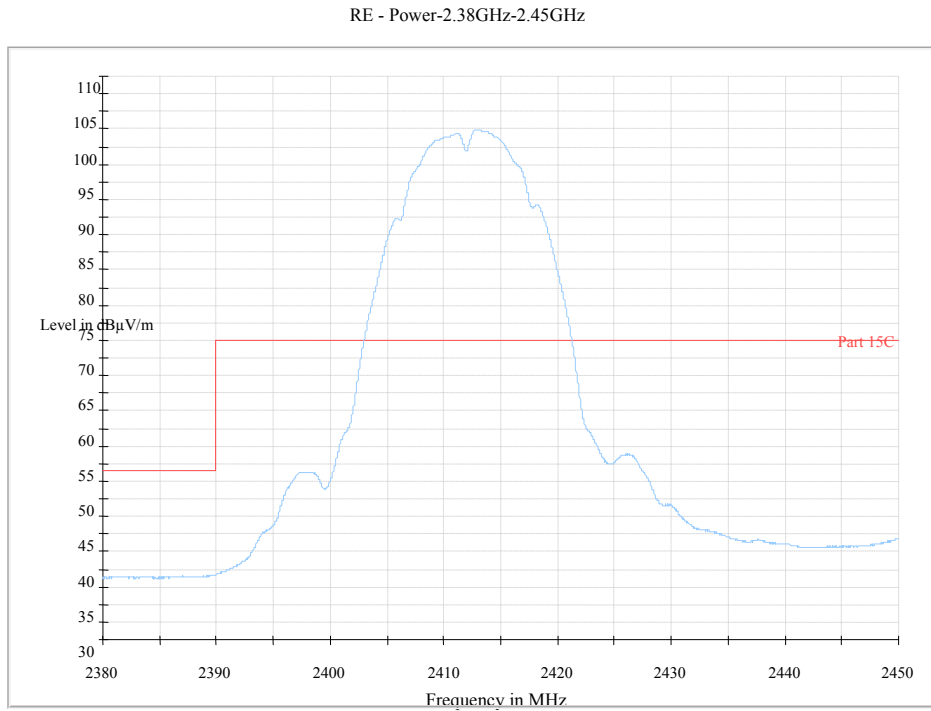
These recorded emissions around 21GHz are highest noise floor levels since no higher spurious emission is detected.

**30MHz – 26.5GHz**

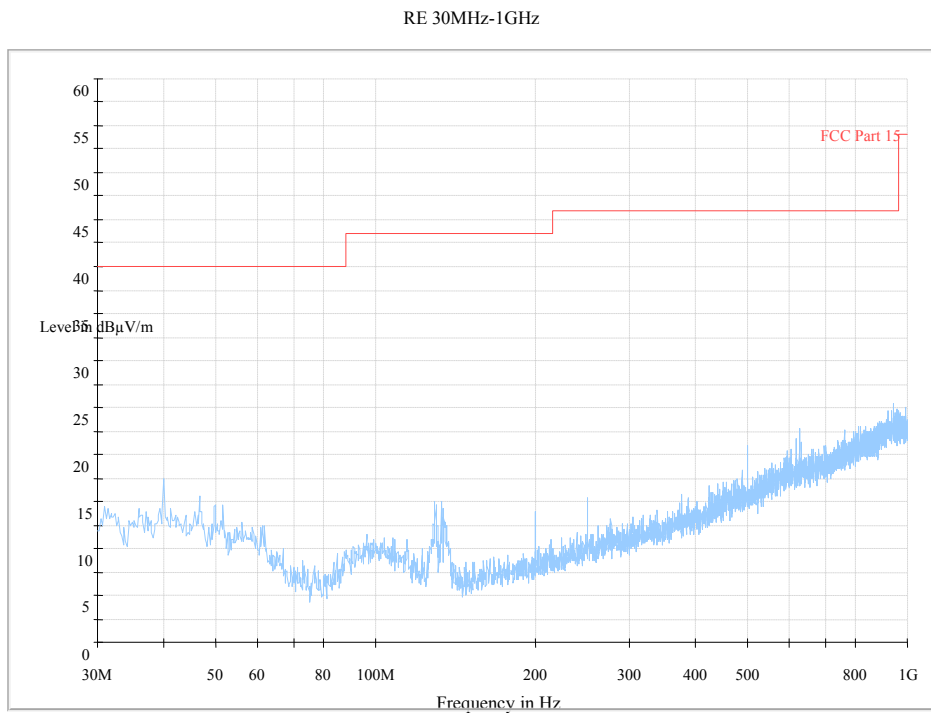
Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	$P_{Mea}$ (dBuV/m)	Polarization
21569.138	50.4	-35.3	46.5	39.197	HORIZONTAL
21573.146	50.4	-35.3	46.5	39.195	HORIZONTAL
21575.150	50.4	-35.3	46.5	39.194	VERTICAL
21571.142	50.4	-35.3	46.5	39.190	VERTICAL
21577.154	50.3	-35.3	46.5	39.145	VERTICAL
21567.134	50.3	-35.3	46.5	39.108	HORIZONTAL

Test graphs as below:

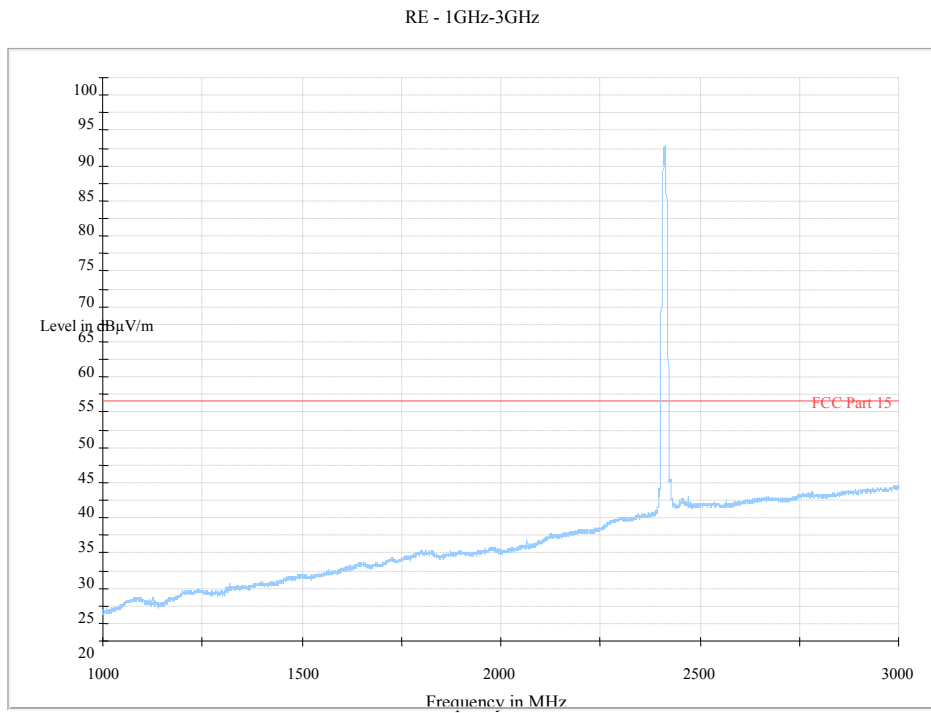




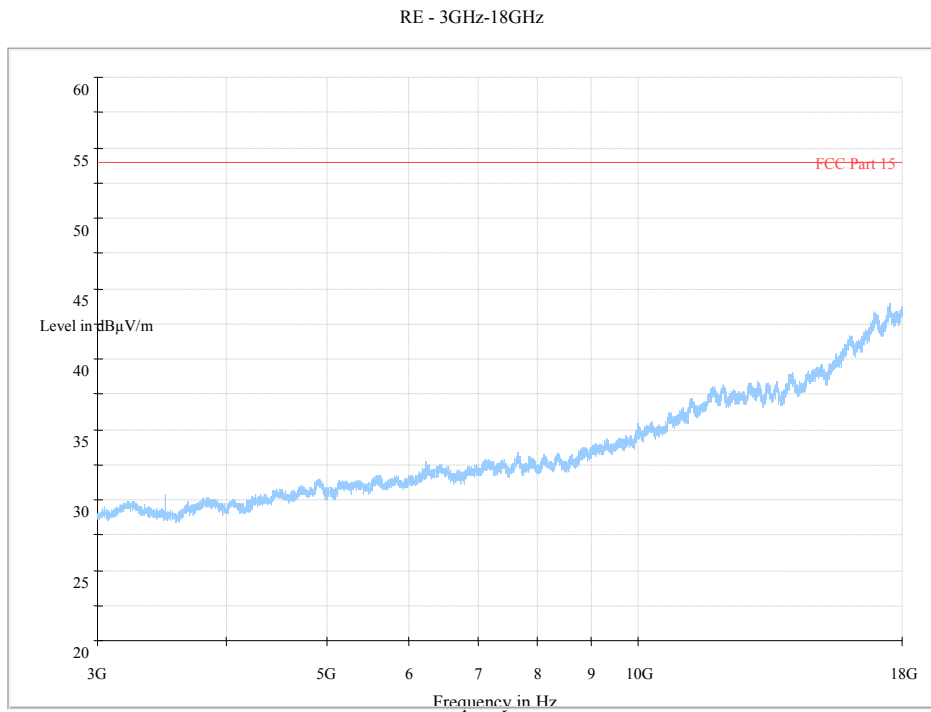
**Fig. 97 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz - 2.45GHz**



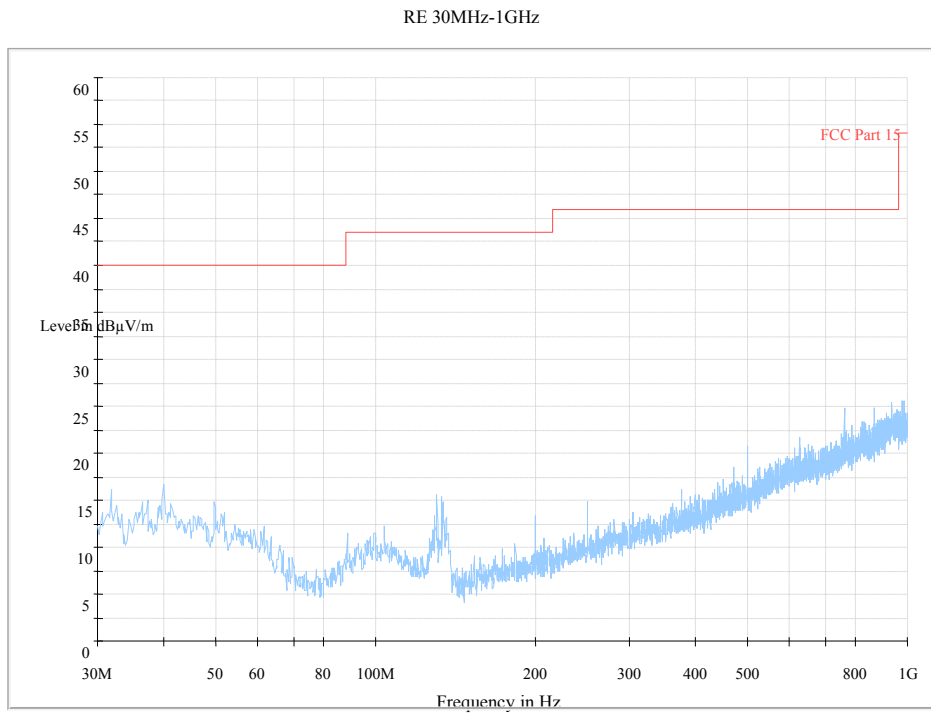
**Fig. 98 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)**



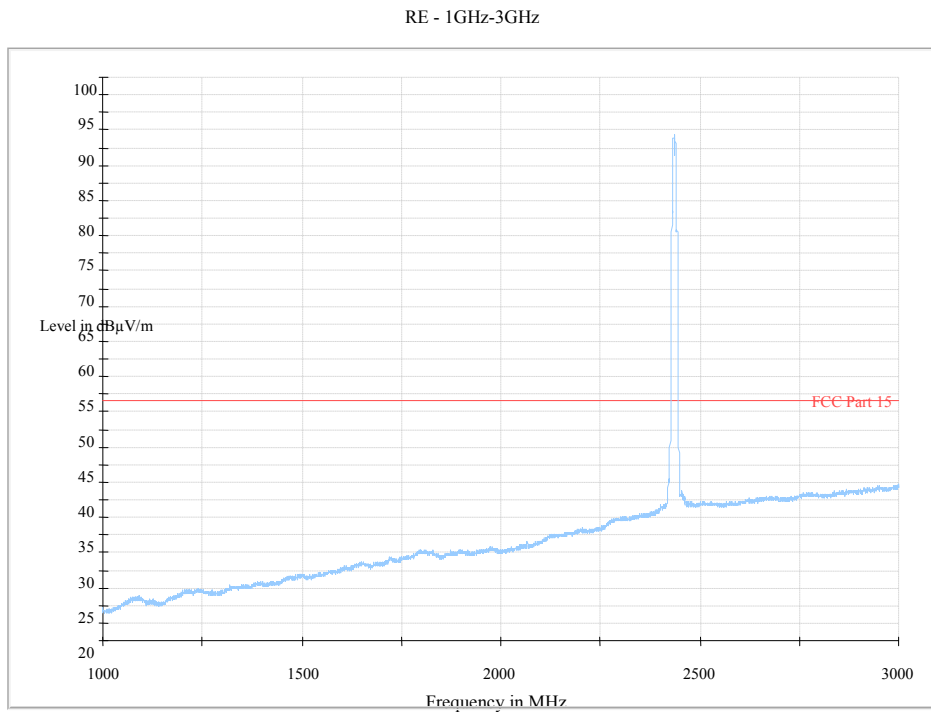
**Fig. 99 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)**



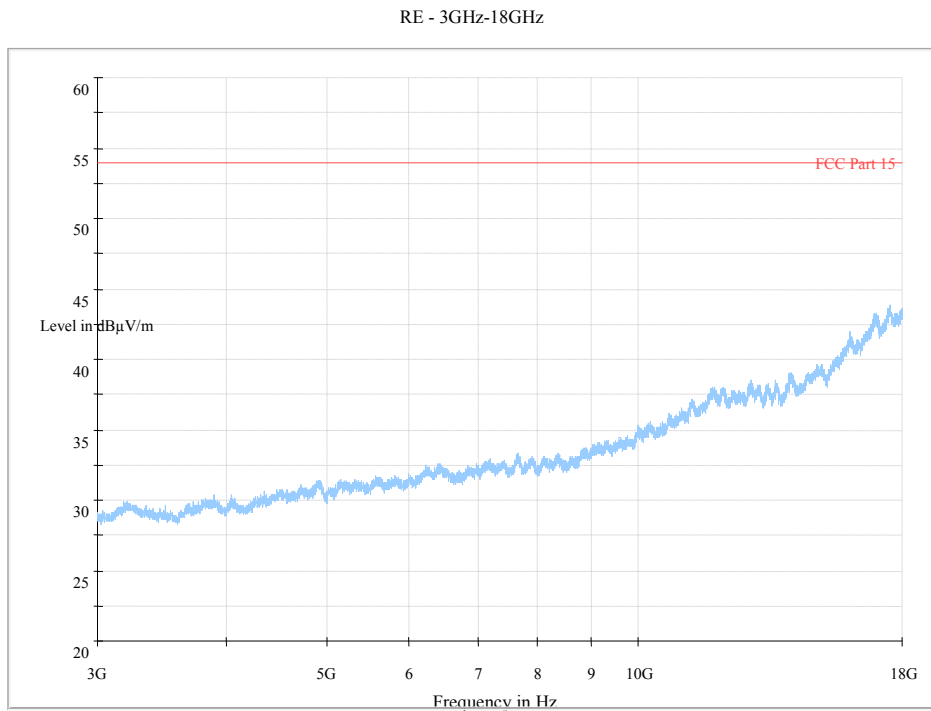
**Fig. 100 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)**



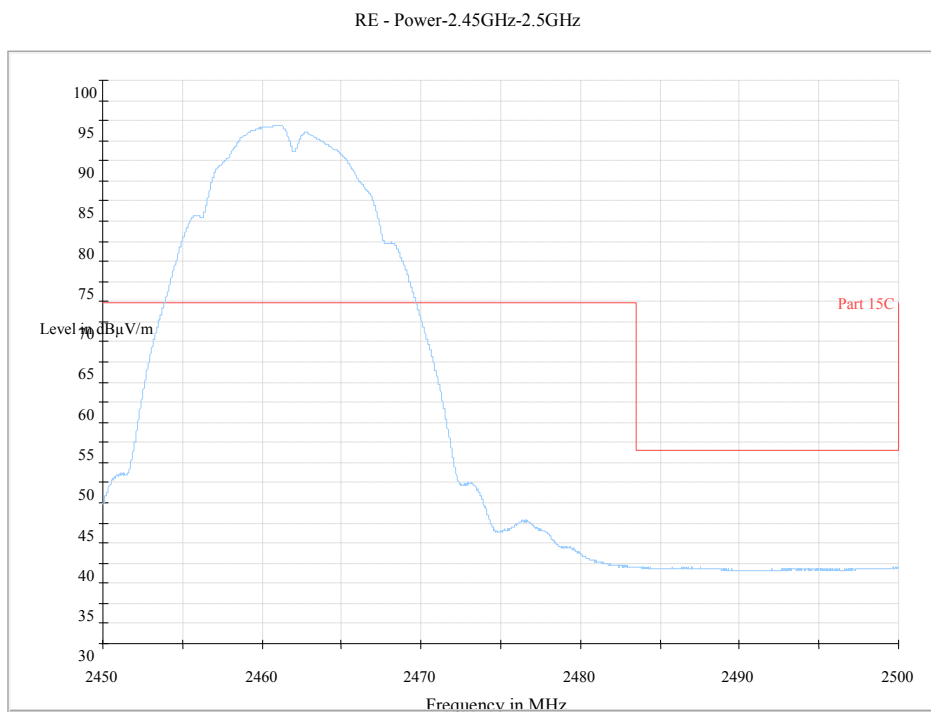
**Fig. 101 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)**



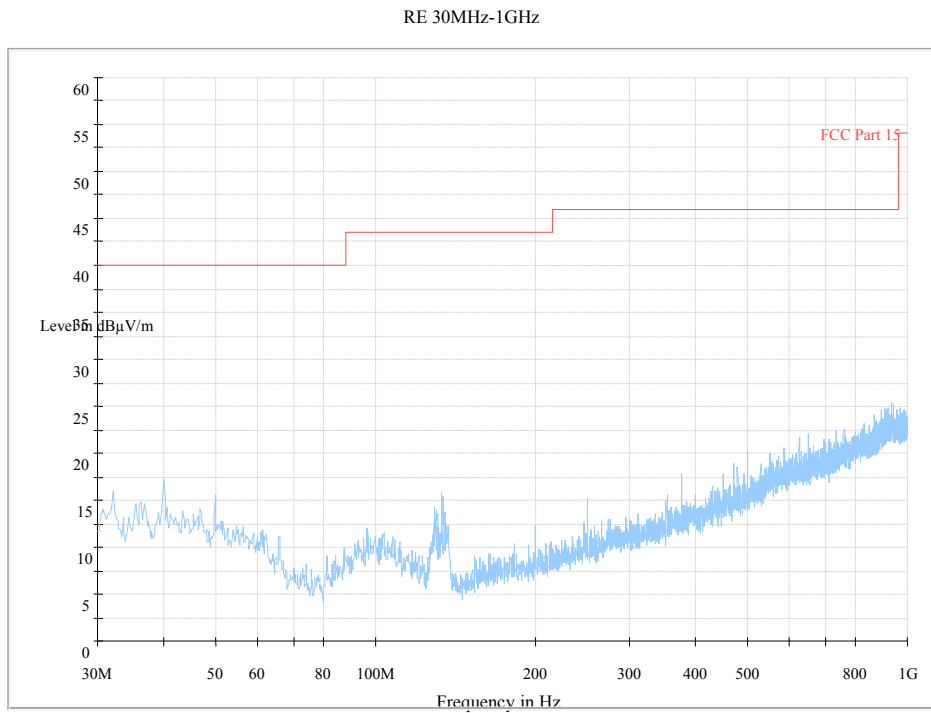
**Fig. 102 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)**



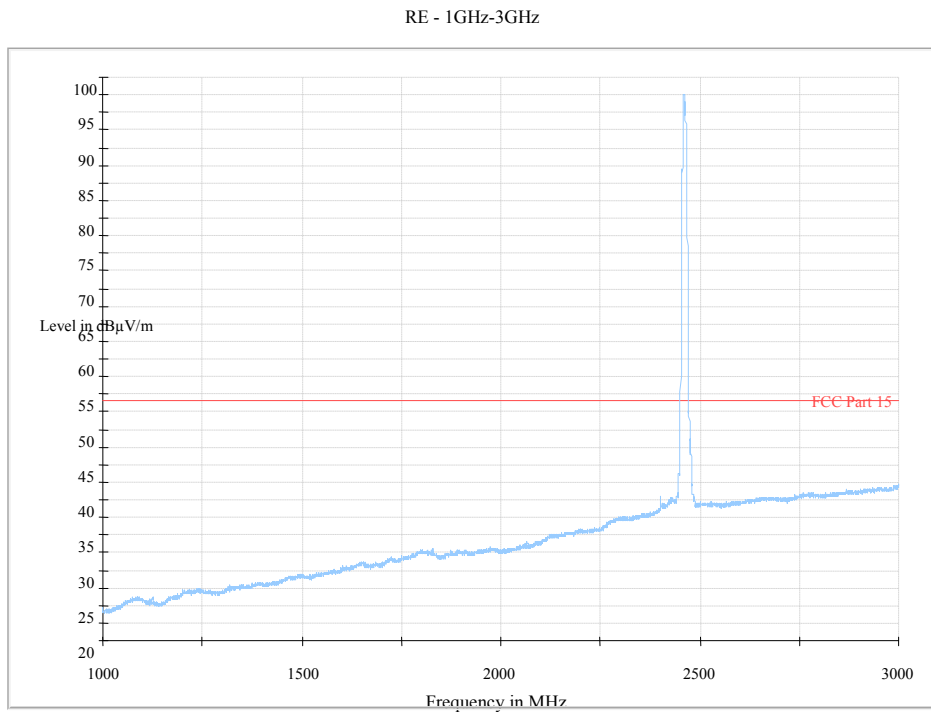
**Fig. 103 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)**



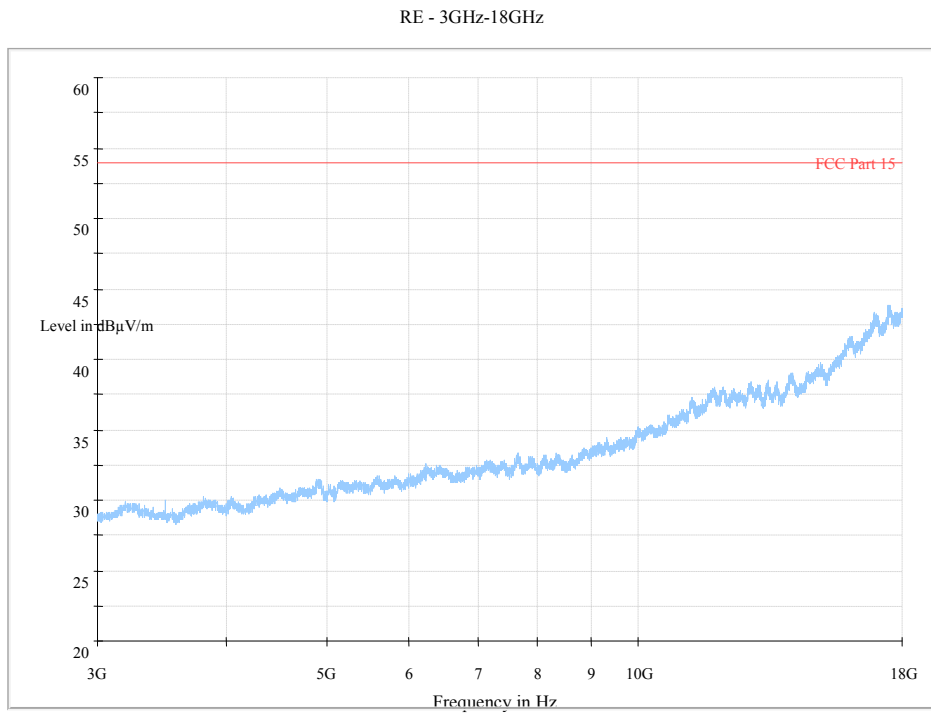
**Fig. 104 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.5GHz**



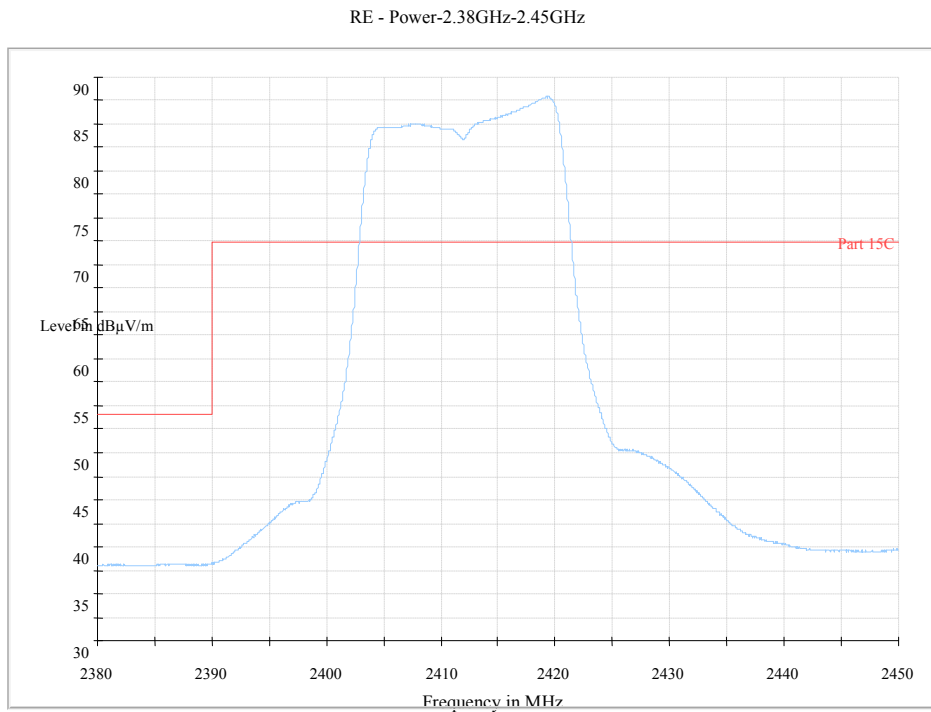
**Fig. 105 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)**



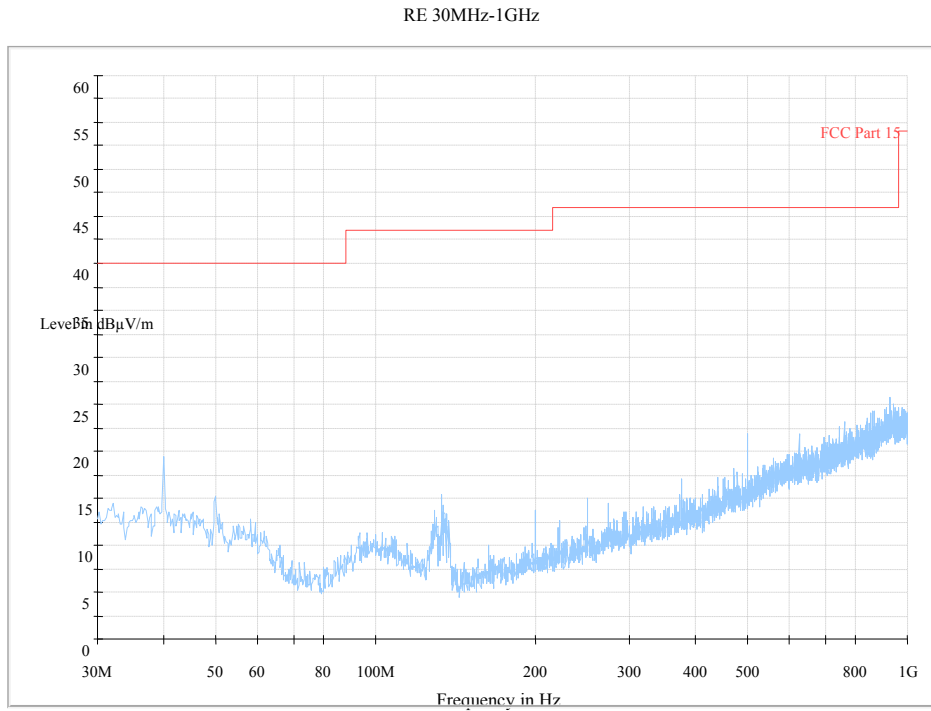
**Fig. 106 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)**



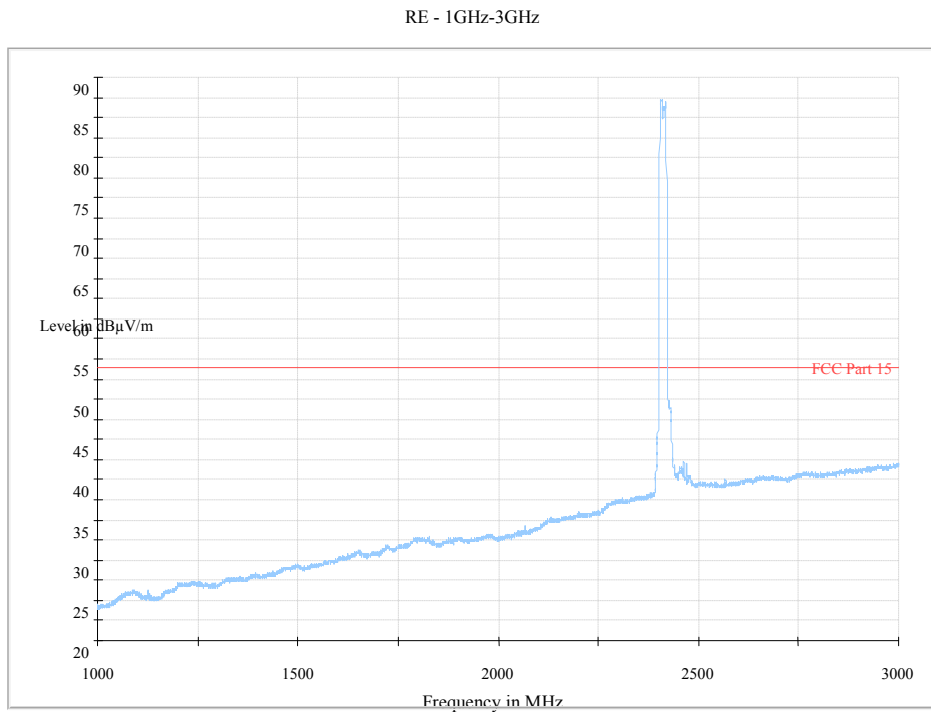
**Fig. 107 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)**



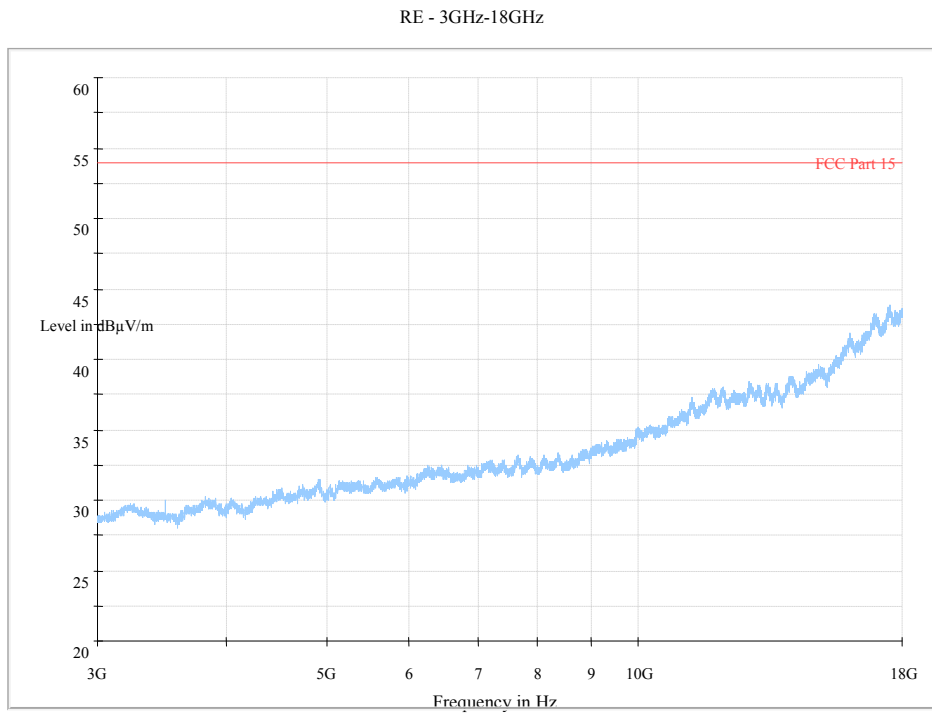
**Fig. 108 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz**



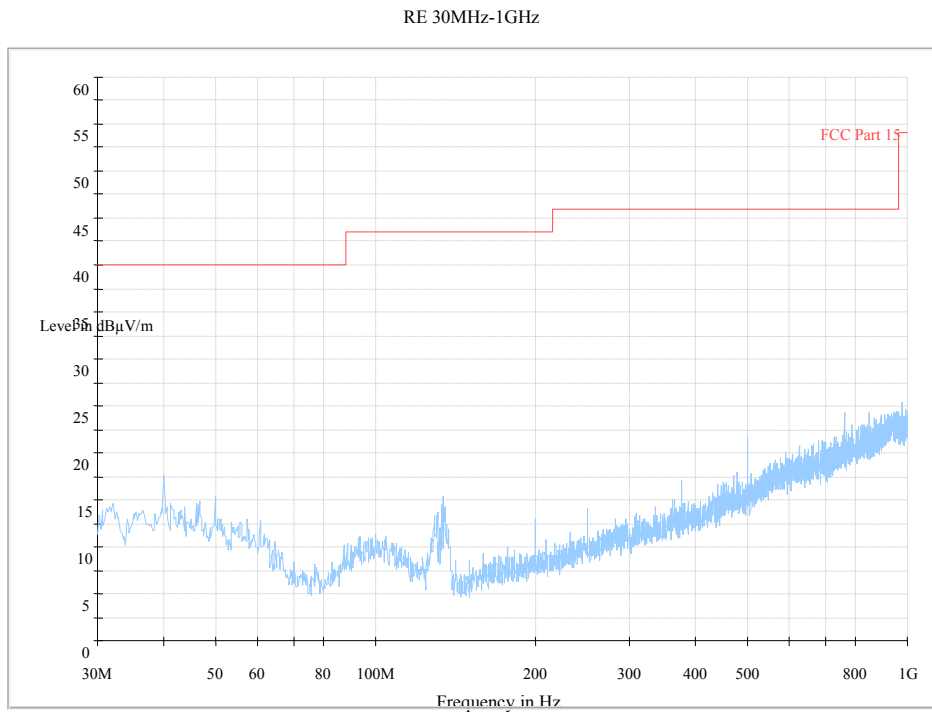
**Fig. 109 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)**



**Fig. 110 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)**

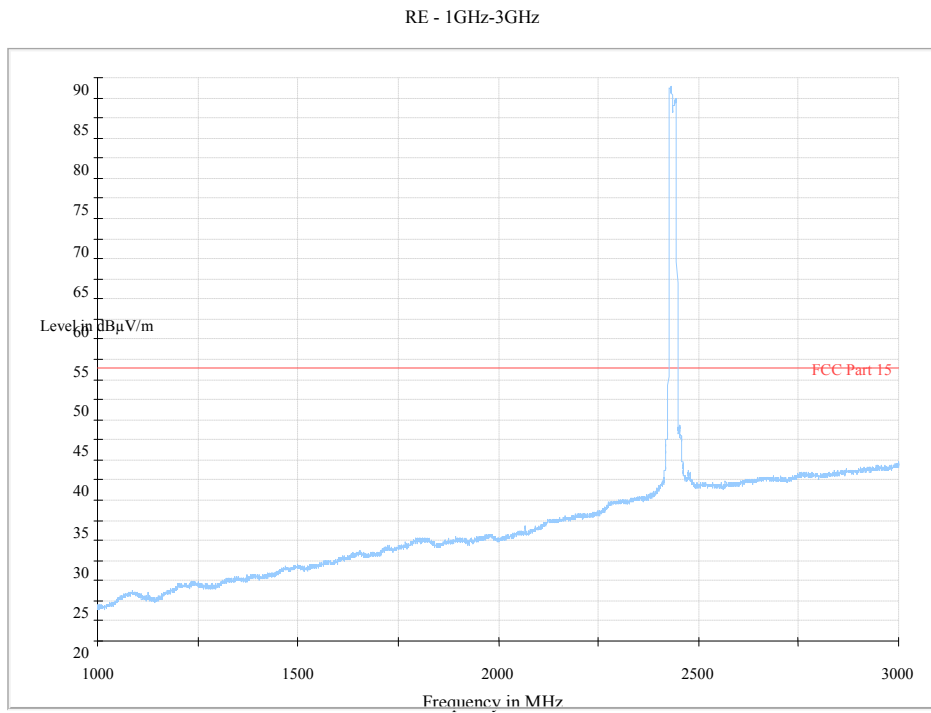


**Fig. 111 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)**

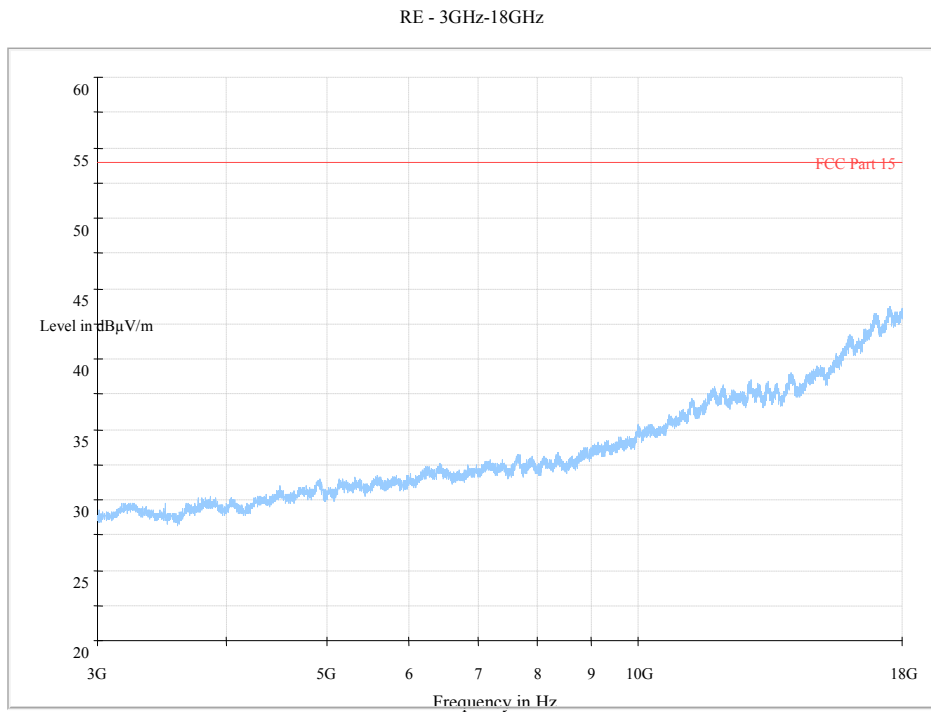


**Fig. 112 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)**

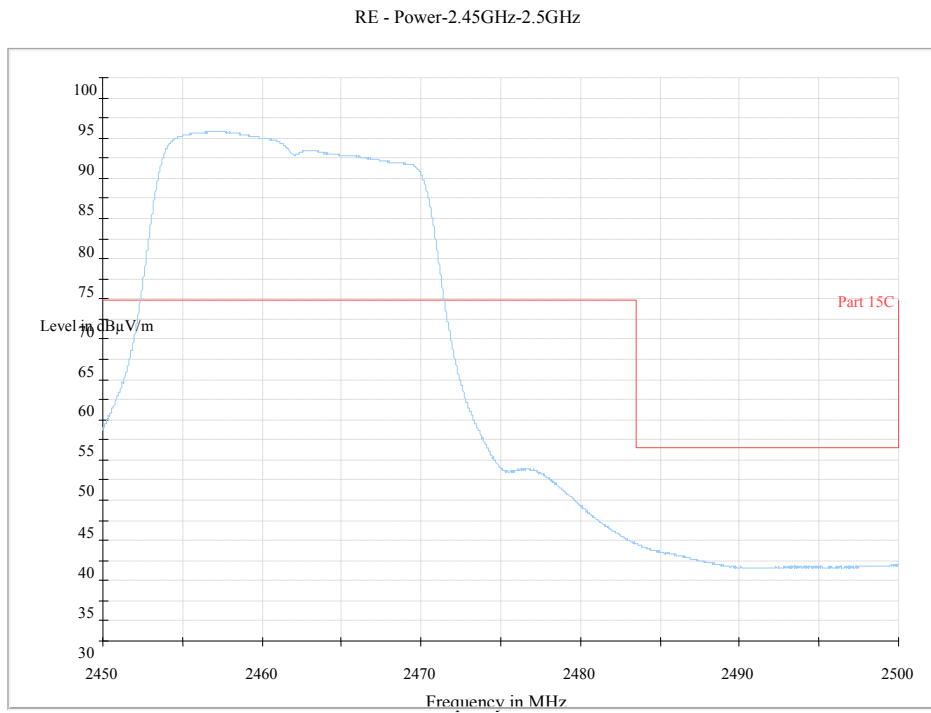




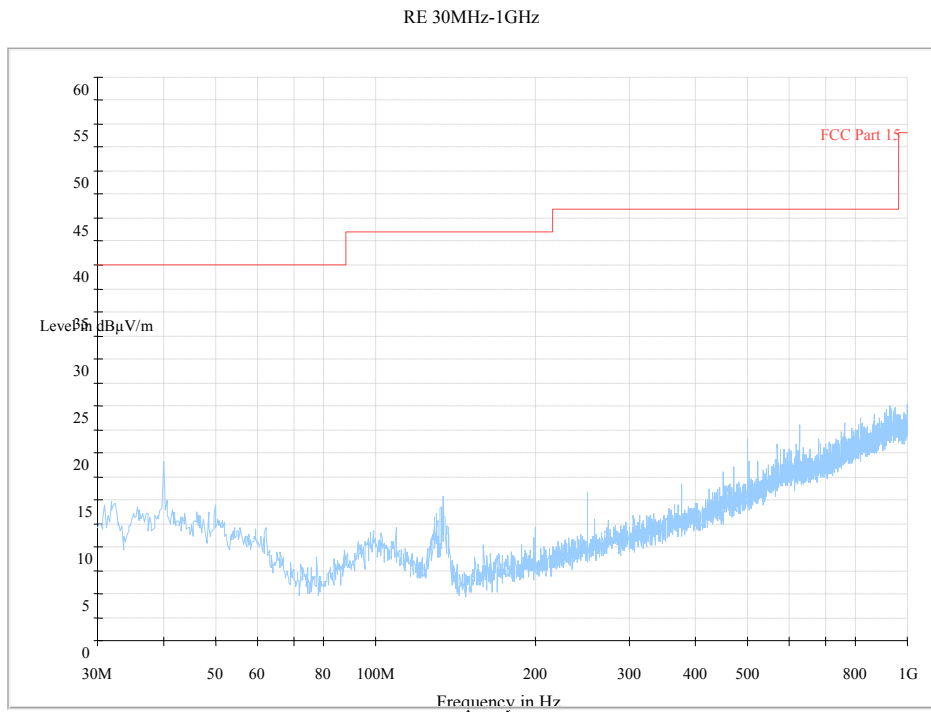
**Fig. 113 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)**



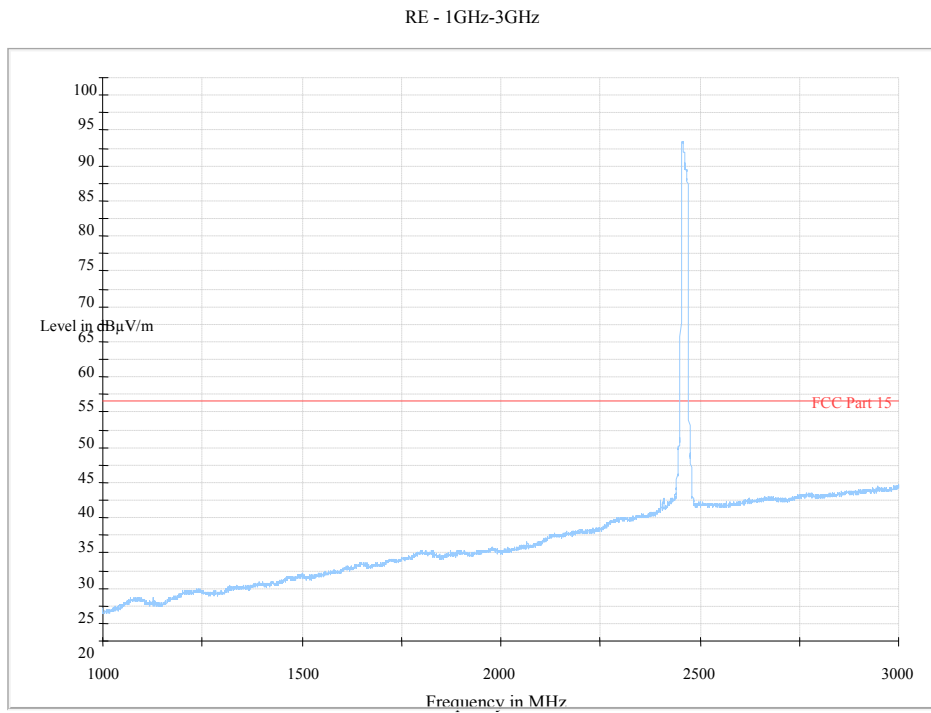
**Fig. 114 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)**



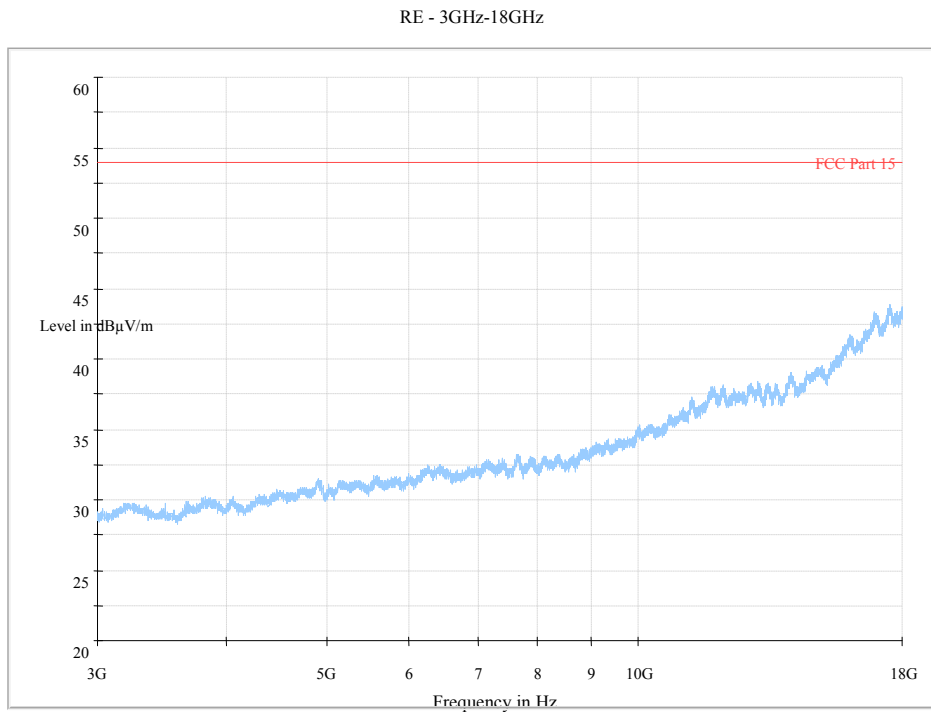
**Fig. 115 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.5GHz**



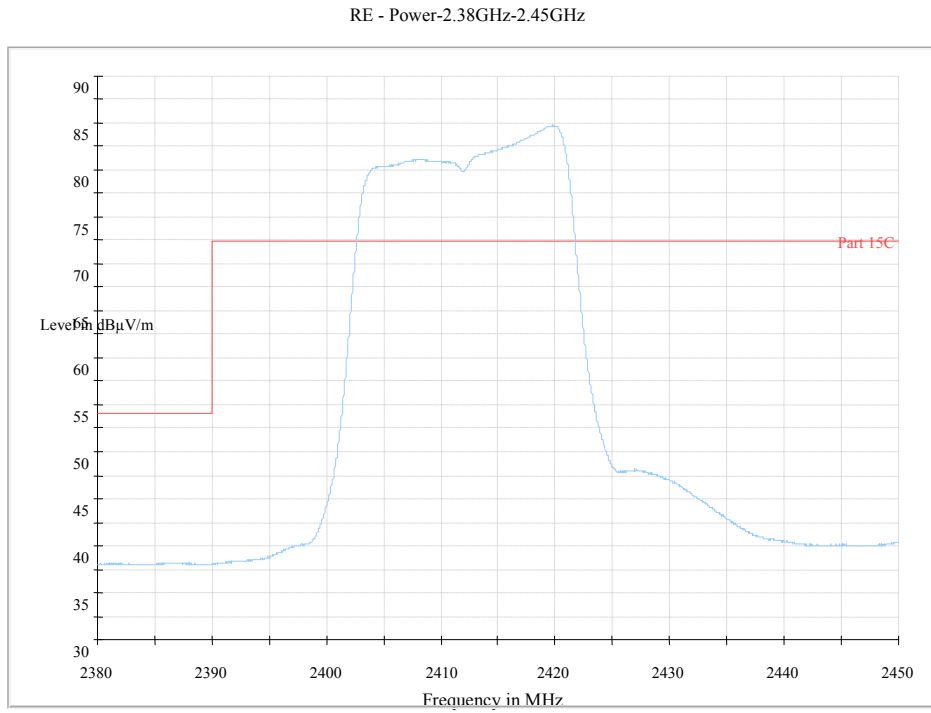
**Fig. 116 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)**



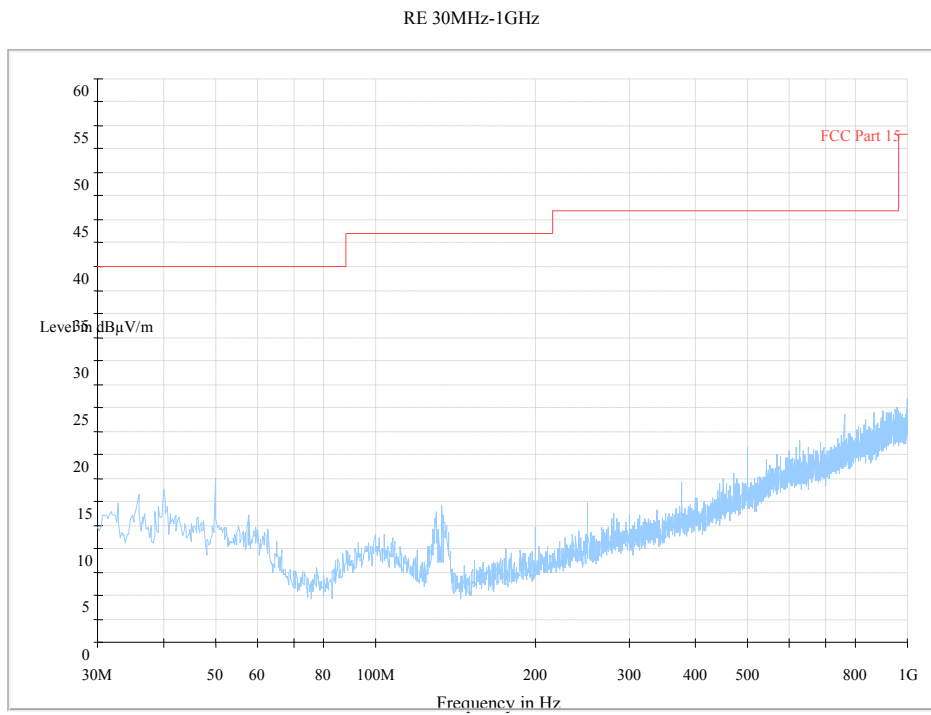
**Fig. 117 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)**



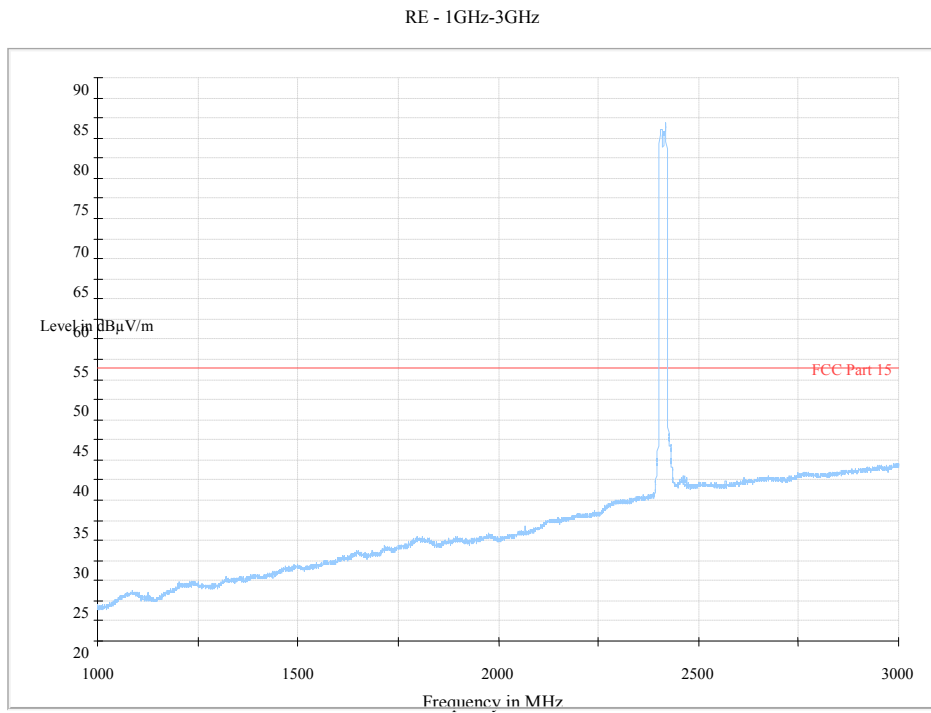
**Fig. 118 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)**



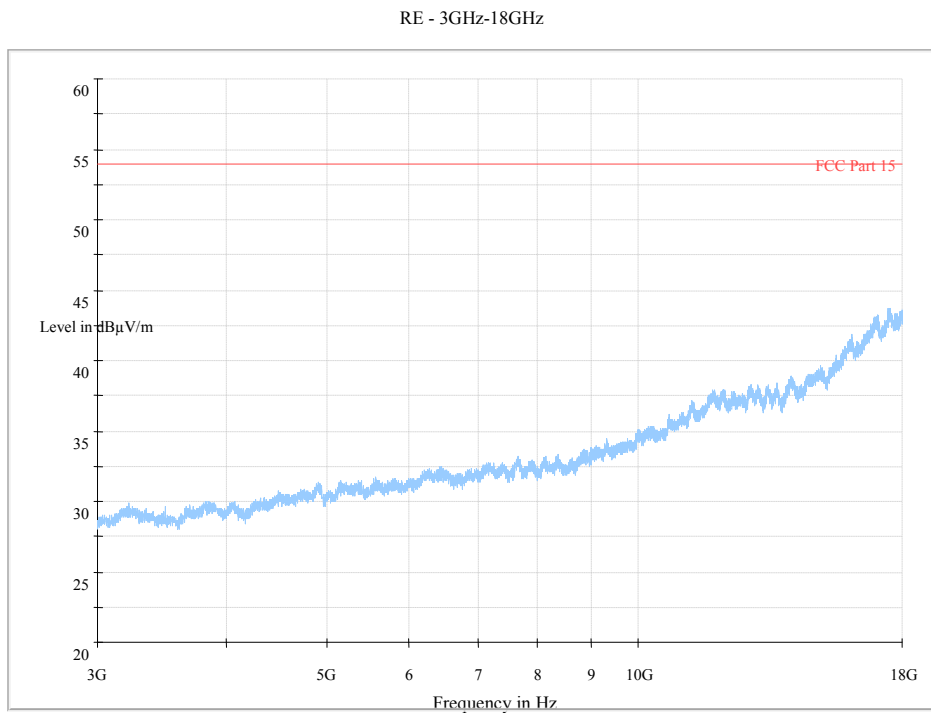
**Fig. 119 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz**



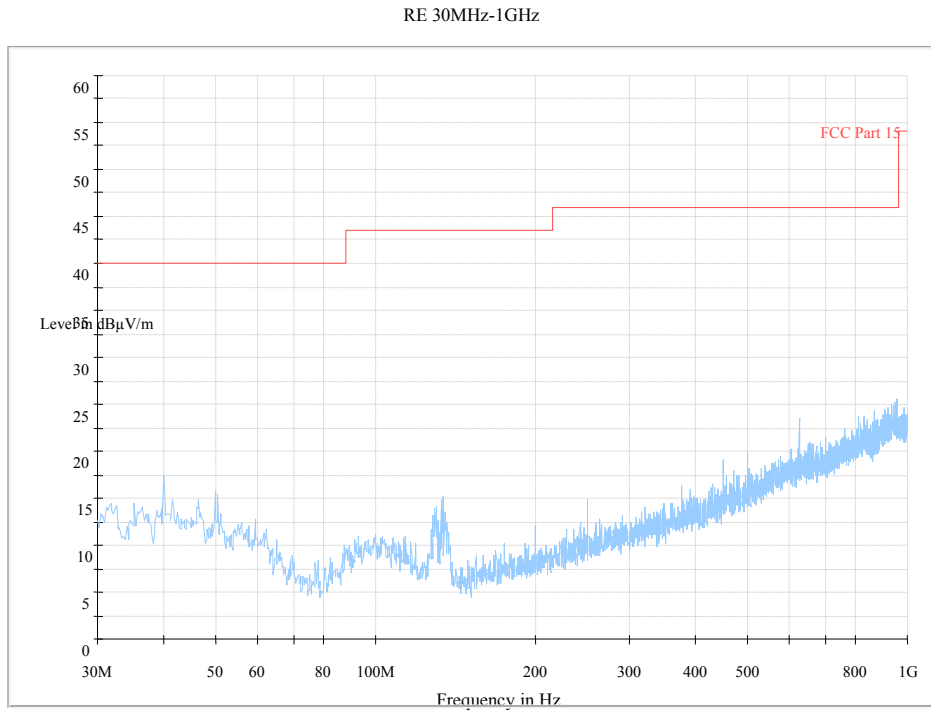
**Fig. 120 Radiated Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)**



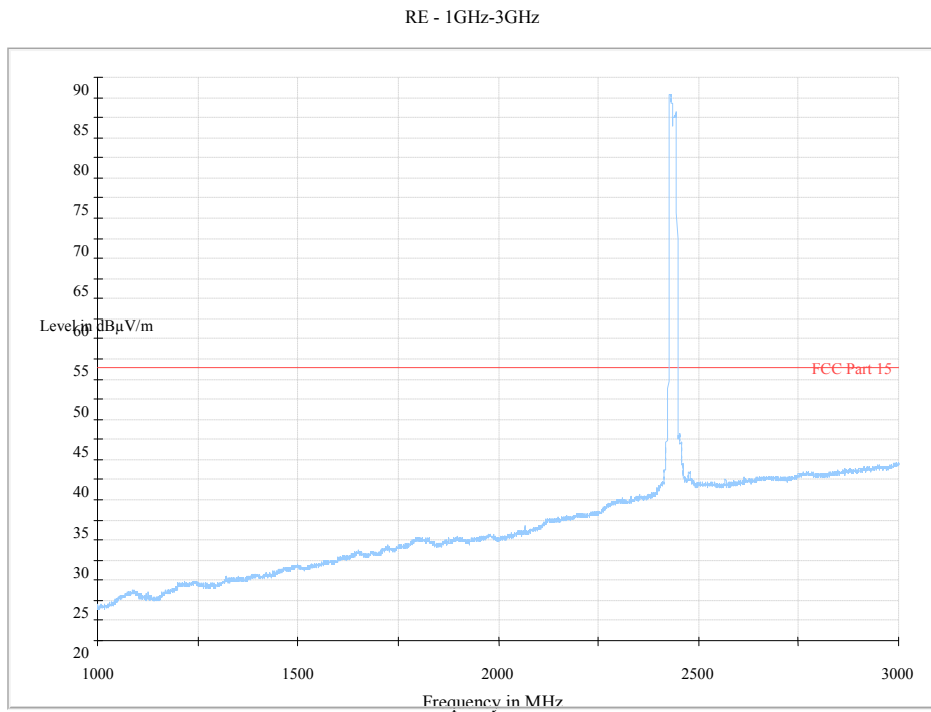
**Fig. 121 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)**



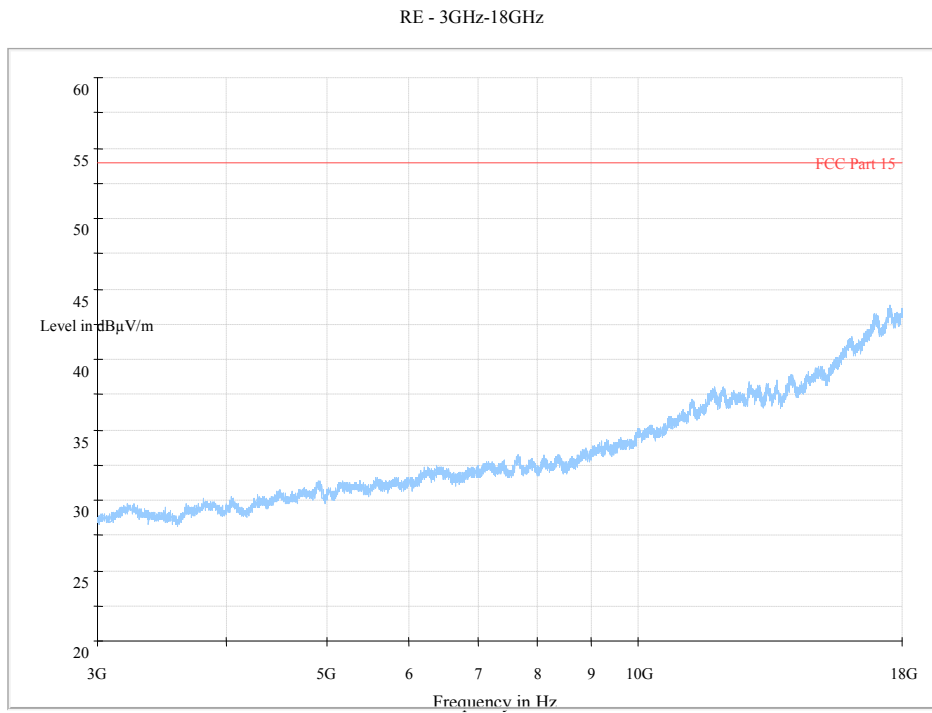
**Fig. 122 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)**



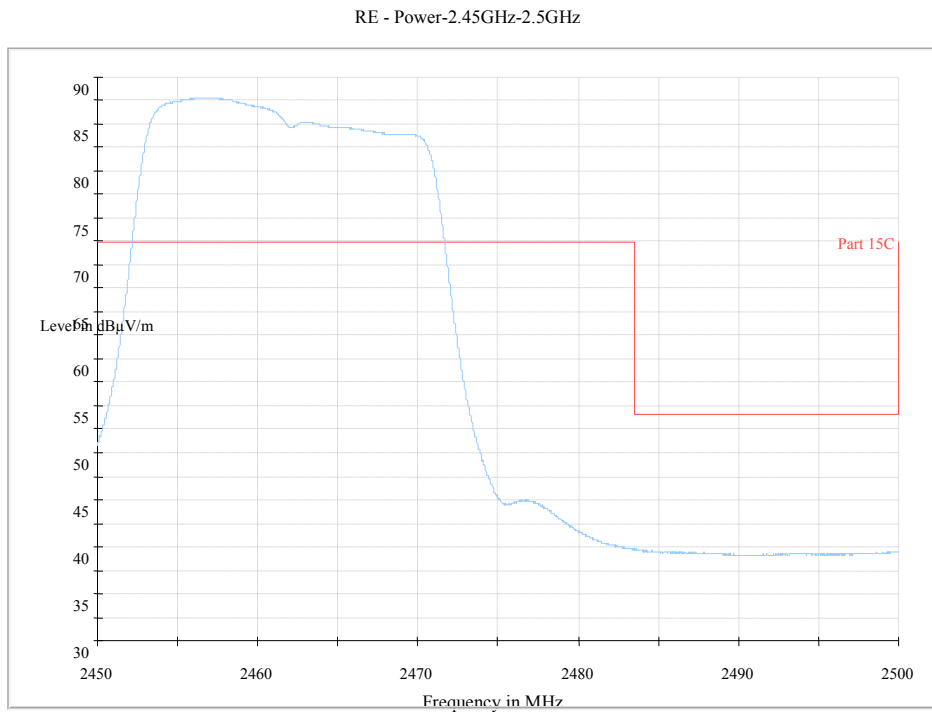
**Fig. 123 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)**



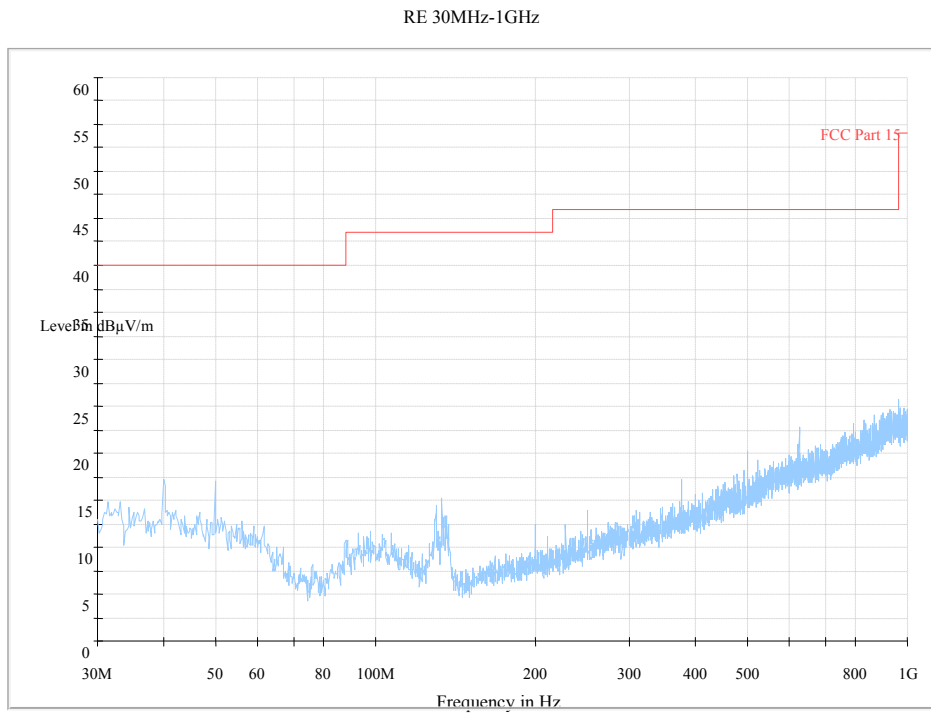
**Fig. 124 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)**



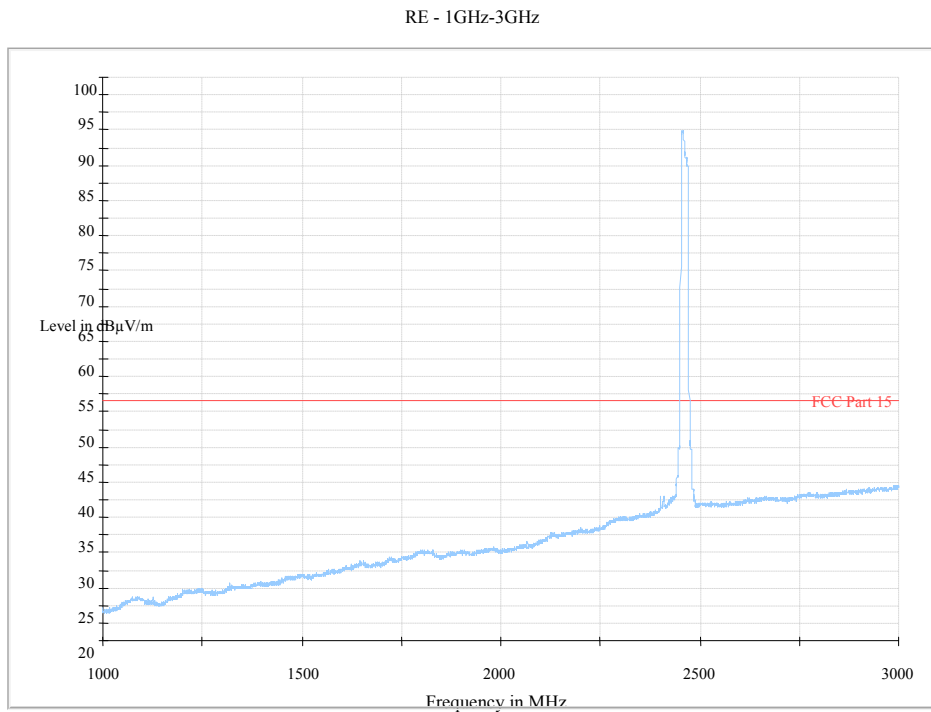
**Fig. 125 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)**



**Fig. 126 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.5GHz**

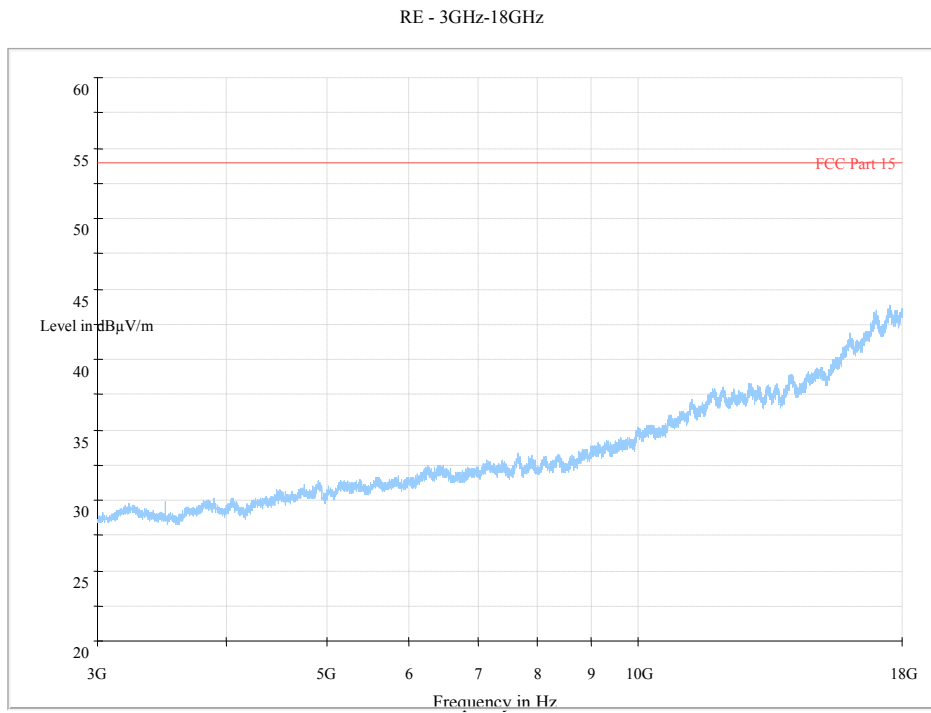


**Fig. 127 Radiated Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)**

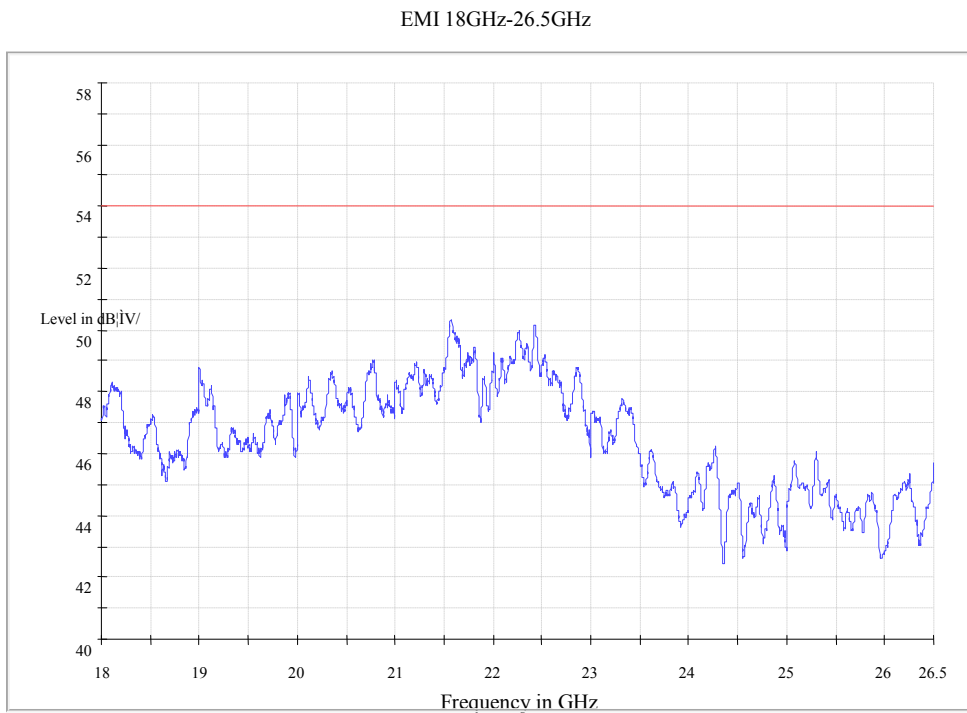


**Fig. 128 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)**





**Fig. 129 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)**



**Fig. 130 Radiated emission: 18 GHz – 26.5 GHz**

Note: For 18GHz-26.5GHz, no useful signal is detected. All 802.11 b/g/n are noise floor, so this is the case performed under 802.11b mode.

### A.7. AC Powerline Conducted Emission

**Test Condition:**

Voltage (V)	Frequency (Hz)
110	60

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit(dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11b mode	Idle	
0.15 to 0.5	66 to 56	Fig. 131	Fig. 132	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 $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11b mode	Idle	
0.15 to 0.5	56 to 46	Fig.131	Fig.132	P
0.5 to 5	46			
5 to 30	50			

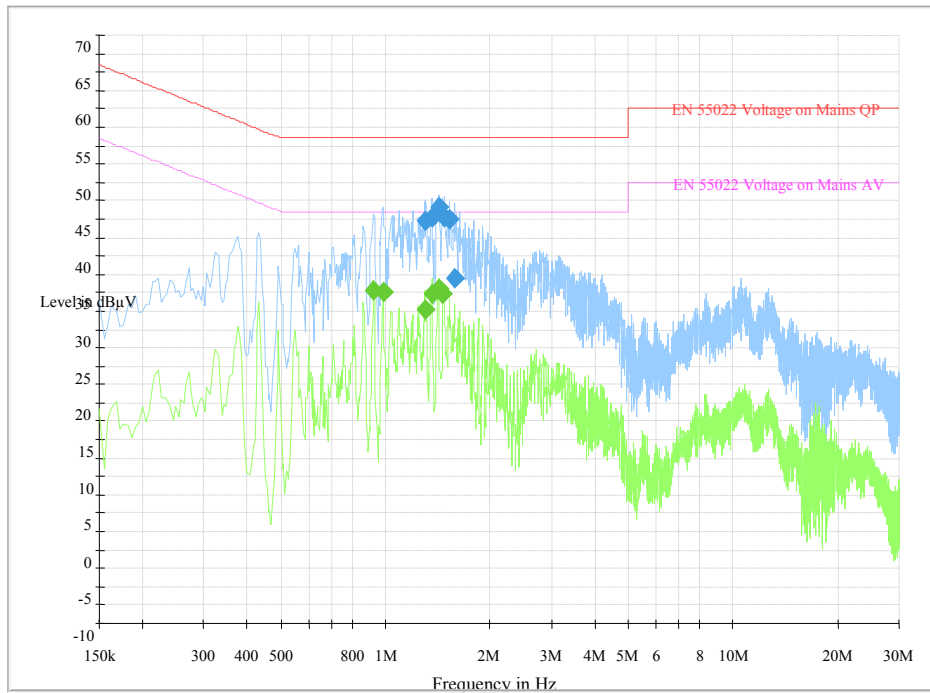
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

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

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

**Conclusion: PASS**

**Test graphs as below:**



**Fig. 131 AC Powerline Conducted Emission**

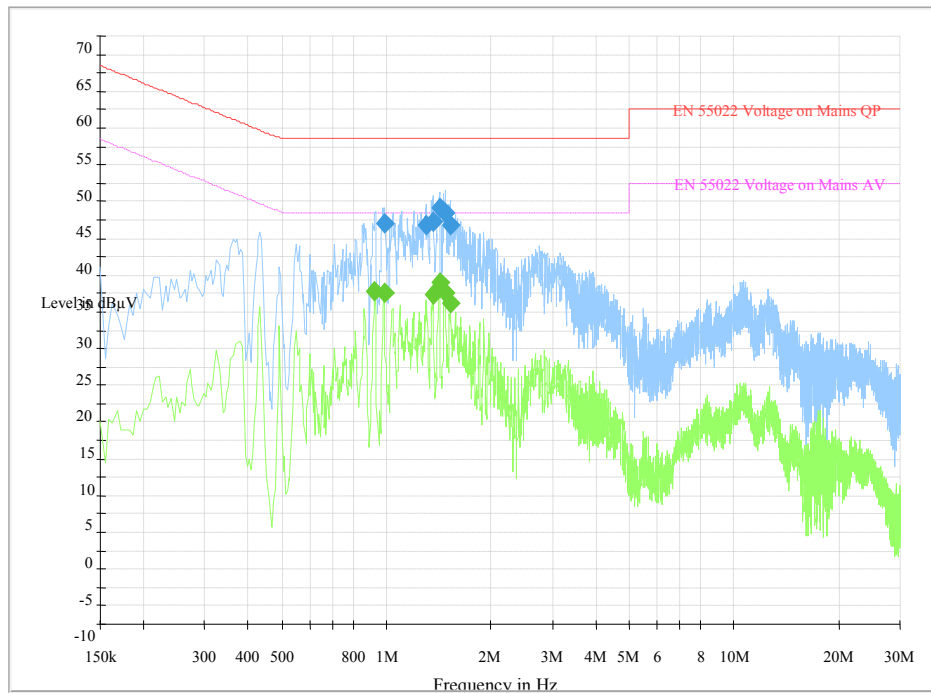
Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Measurement Result: "12A00452\_WNC\_fin QP"

Frequency (MHz)	QuasiPeak Level (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.306500	44.7	GND	L1	10.0	11.3	56.0
1.365000	45.2	GND	L1	10.0	10.8	56.0
1.419000	46.6	GND	L1	10.0	9.4	56.0
1.477500	45.2	GND	L1	10.0	10.8	56.0
1.527000	45.0	GND	L1	10.0	11.0	56.0
1.581000	37.0	GND	N	10.0	19.0	56.0

Measurement Result: "12A00452\_WNC\_fin AV"

Frequency (MHz)	Average Level (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.924000	35.3	GND	L1	10.0	10.7	46.0
0.982500	35.0	GND	L1	10.0	11.0	46.0
1.297500	32.8	GND	L1	10.0	13.2	46.0
1.356000	35.0	GND	L1	10.0	11.0	46.0
1.419000	35.6	GND	L1	10.0	10.4	46.0
1.468500	34.8	GND	L1	10.0	11.2	46.0



**Fig. 132 AC Powerline Conducted Emission**

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

Measurement Result: "12A00452\_WIC\_fin QP"

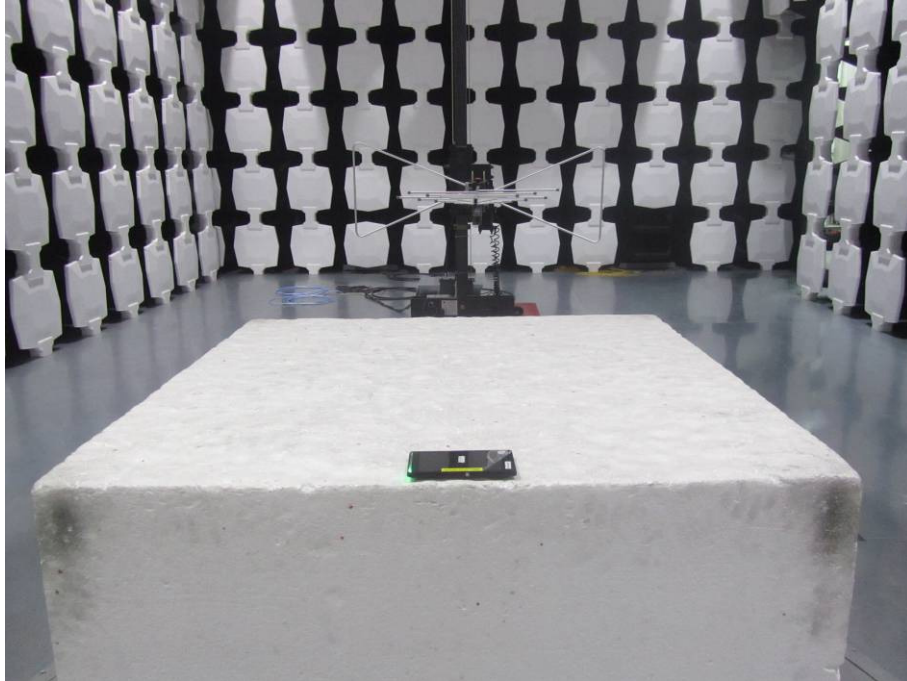
Frequency (MHz)	QuasiPeak Level (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.982500	44.5	GND	L1	10.0	11.5	56.0
1.306500	44.2	GND	L1	10.0	11.8	56.0
1.356000	44.8	GND	L1	10.0	11.2	56.0
1.419000	46.6	GND	L1	10.0	9.4	56.0
1.477500	45.9	GND	L1	10.0	10.1	56.0
1.527000	44.4	GND	L1	10.0	11.6	56.0

Measurement Result: "2A00452\_WIC\_fin AV"

Frequency (MHz)	Average Level (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.924000	35.4	GND	L1	10.0	10.6	46.0
0.982500	35.1	GND	L1	10.0	10.9	46.0
1.356000	34.9	GND	L1	10.0	11.1	46.0
1.419000	36.4	GND	L1	10.0	9.6	46.0
1.477500	35.1	GND	L1	10.0	10.9	46.0
1.527000	33.6	GND	L1	10.0	12.4	46.0

## ANNEX B: PHOTOGRAPHS OF THE TEST SET-UP

### Layout of Radiated Spurious Emission Test



### Layout of AC Powerline Conducted Emission



**ANNEX C: PHOTOGRAPHS OF THE EUT**

**External Photo**



**EUT Photo**



**EUT Photo**



Back Label of Mobile Phone



Back Label of Mobile Phone



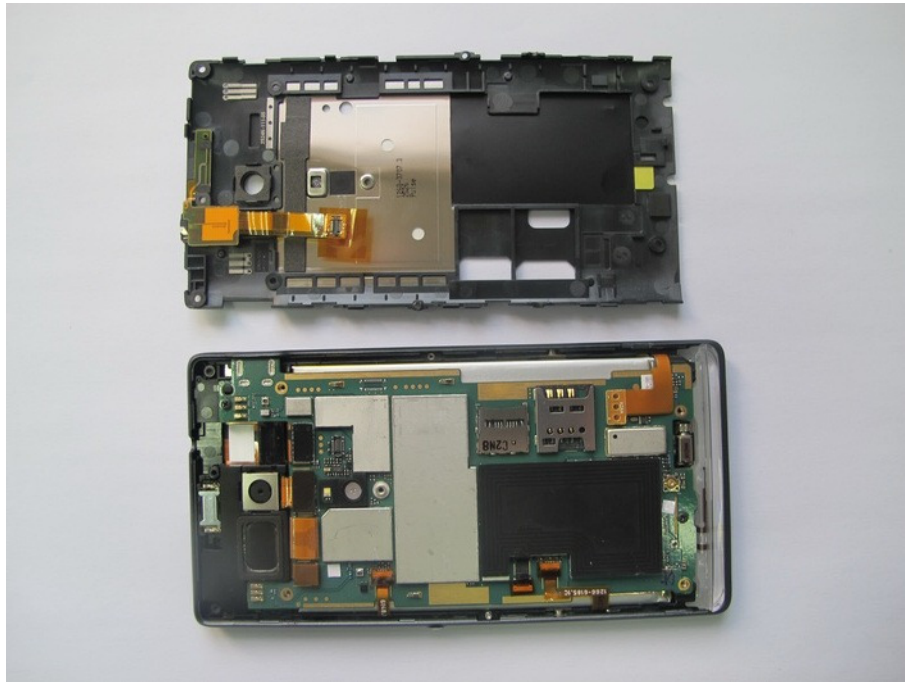
**Battery**



**USB Cable**



**Internal Photo**



**EUT Disassembly**



**EUT Disassembly**



**EUT Disassembly**



**EUT Disassembly**

**\*\*\* END OF REPORT BODY \*\*\***