



**FCC PART 15C  
TEST REPORT  
No. 2013WLN0668**

**for**

**Sony Mobile Communications AB**

**GSM 850/900/1800/1900 quad bands and CDMA2000 850/1900**

**dual bands mobile phone**

**Type: PM-0370-BV**

**With**

**FCC ID: PY7PM-0370**

**Hardware Version: A**

**Software Version: 12.0.B.1.36**

**Issued Date: 2013-04-17**



**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.

**Test Laboratory:**

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology

No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China, 100191

Tel:+86(0)10-62304633-2561, Fax:+86(0)10-62304633-2504 Email:welcome@emcite.com. www.emcite.com

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

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

### 1.3. Project data

Testing Start Date: 2013-03-26  
Testing End Date: 2013-04-03

### 1.4. Signature



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**Xu Zhongfei**  
**(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  
Address /Post: Sony Mobile R&D Center, No. 16, Guangshun South Street,  
Chaoyang District  
City: Beijing  
Postal Code: 100102  
Country: China  
Contact Person: Ma, Gang  
Telephone: +86-10-58656312  
Fax: +86-10-58659049

### **2.2. Manufacturer Information**

Company Name: Sony Mobile Communications AB  
Address /Post: Nya Vattentorget, 22188 Lund, Sweden  
City: Lund  
Postal Code: 22188  
Country: Sweden  
Contact Person: Nordlof, Anders  
Telephone: +46-10-802 3919  
Fax: +46-10-800 2441

### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY**

#### **EQUIPMENT(AE)**

##### **3.1. About EUT**

Description	GSM 850/900/1800/1900, GPRS, EDGE, CDMA2000 Band Class0/1 Bluetooth EDR & BLE, WLAN ( 802.11 b/g/n), FM, NFC, GPS receiver mobile phone
Type	PM-0370-BV
FCC ID	PY7PM-0370
WLAN Frequency Range	ISM Band: 2400MHz~2483.5MHz
Type of modulation	OFDM
Number of Channels	11
GSM Frequency Band	GSM 850/900/1800/1900
Antenna	Integral Antenna
MAX Radiated Power	18.63dBm(OFDM)
MAX Conducted Power	23.62dBm(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**

<b>EUT ID*</b>	<b>S/N</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	CB5123NEWR	004402146480763	A	12.0.B.1.36
EUT2	CB5123NF8A	004402146474600	A	12.0.B.1.36

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

##### **3.3. Internal Identification of AE used during the test**

<b>AE ID*</b>	<b>Description</b>	<b>Type</b>	<b>SN</b>
AE1	Travel Charger	AC-0400-US	/
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 850/900/1800/1900 quad bands and CDMA2000 850/1900 dual bands mobile phone with integrated antenna and inbuilt battery. The EUT supports two SIM card slots.

GSM SIM card slot supports GSM 900/1800/1900MHz bands. It also supports GPRS service with multi-slots class 8 and EGPRS service with multi-slots class 8 too.

CTC SIM card slot supports GSM 850/900/1800/1900MHz bands and CDMA2000 bands 0/1. It also supports GPRS service with multi-slots class 12 and EGPRS service with multi-slots class 12 too.

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 b/g/n) and Wi-Fi hotspot functions.

It includes normal option: travel charger, Portable Hands-Free 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,	2010
	2400–2483.5 MHz, and 5725–5850 MHz.	
	Methods of Measurement of Radio-Noise Emissions from	
ANSI C63.4	Low-Voltage Electrical and Electronic Equipment in the	2009
	Range of 9 kHz to 40 GHz	
	Measurement of Digital Transmission Systems	Jan,
KDB558074	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 (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, 15.209, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P
Occupied 20dB Bandwidth	15.247 (d)	/	P

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

The measurement is made according to 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
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2013-06-30

### **Anechoic chamber**

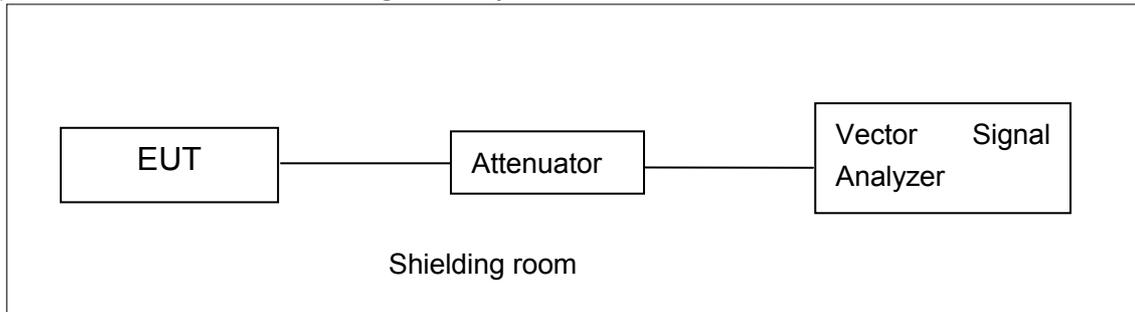
Fully anechoic chamber by Frankonia German.

## 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

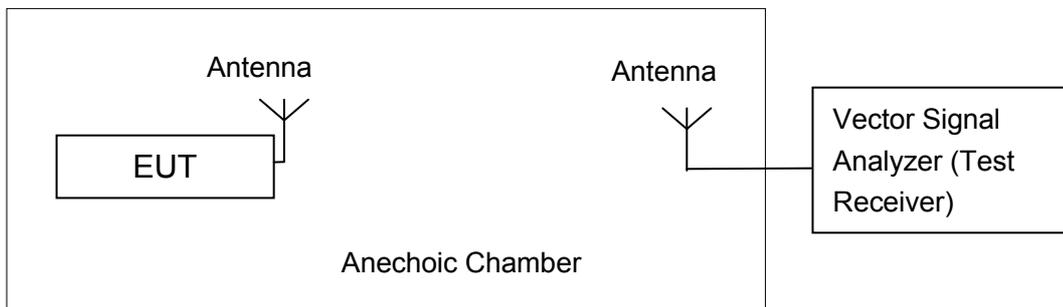


#### A.1.2. Radiated Emission Measurements

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

### Measurement Uncertainty:

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

### 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		
Tnom,Vnom	1	6	11
Conducted Power(dBm)	18.00	17.86	17.90
Radiated Power(dBm)	13.01	13.01	13.04
Gain(dBi)	-4.99	-4.85	-4.86

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

### A.2.2. Maximum Peak Output Power

#### Measurement Results:

Mode	Test Result (dBm)					
	2412MHz (Ch1)		2437MHz (Ch6)		2462 MHz (Ch11)	
	Conducted	Radiated	Conducted	Radiated	Conducted	Radiated
802.11b	22.34	17.35	22.09	17.24	22.08	17.22
802.11g	23.62	18.63	23.00	18.15	23.38	18.52
802.11n	22.08	17.09	21.53	16.68	20.54	15.68

**Conclusion: PASS**

## 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 ANSI C63.4 and KDB558074

### Measurement Uncertainty:

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

**Measurement Results:**

Mode	Channel	Power Spectral Density ( dBm/3 kHz )	Conclusion
802.11b	1	-6.08	P
	6	-6.07	P
	11	-5.40	P
802.11g	1	-10.77	P
	6	-11.52	P
	11	-9.59	P
802.11n	1	-11.63	P
	6	-11.91	P
	11	-11.75	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

**Measurement Uncertainty:**

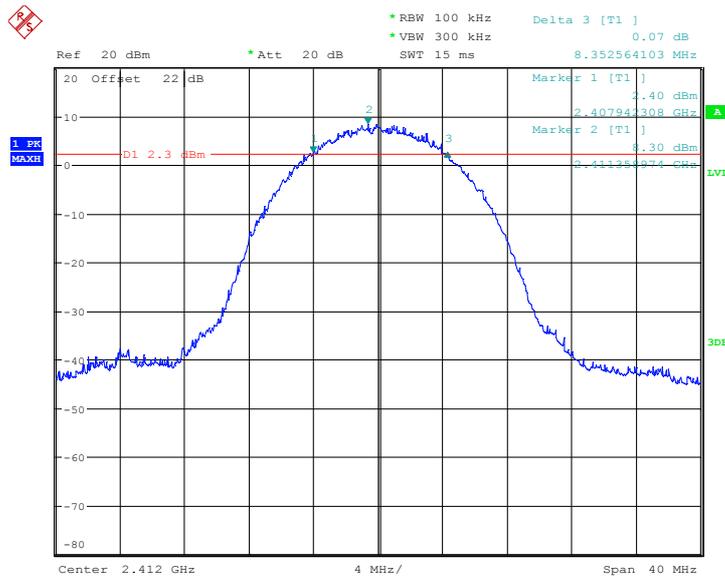
Measurement Uncertainty	60.80Hz
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**Measurement Result:**

Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
802.11b	1	Fig.1	8353	P
	6	Fig.2	8141	P
	11	Fig.3	8269	P
802.11g	1	Fig.4	16538	P
	6	Fig.5	16538	P
	11	Fig.6	16538	P
802.11n	1	Fig.7	17821	P
	6	Fig.8	17821	P
	11	Fig.9	17821	P

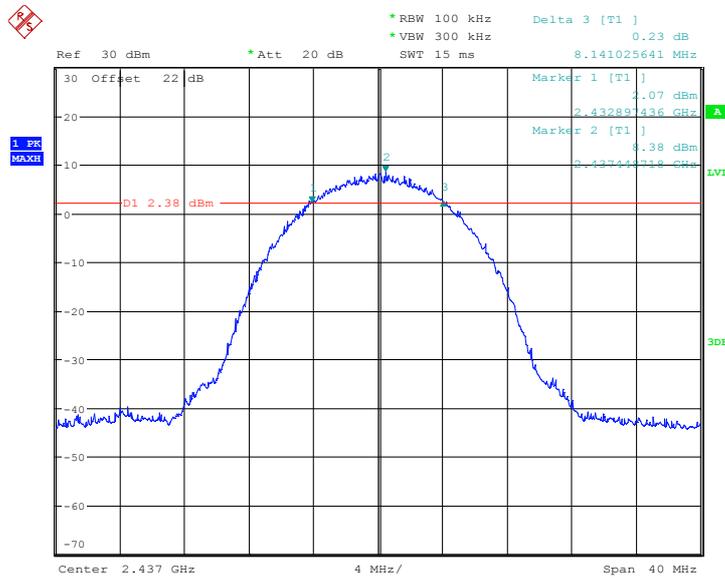
**Conclusion: PASS**

**Test graphs as below:**



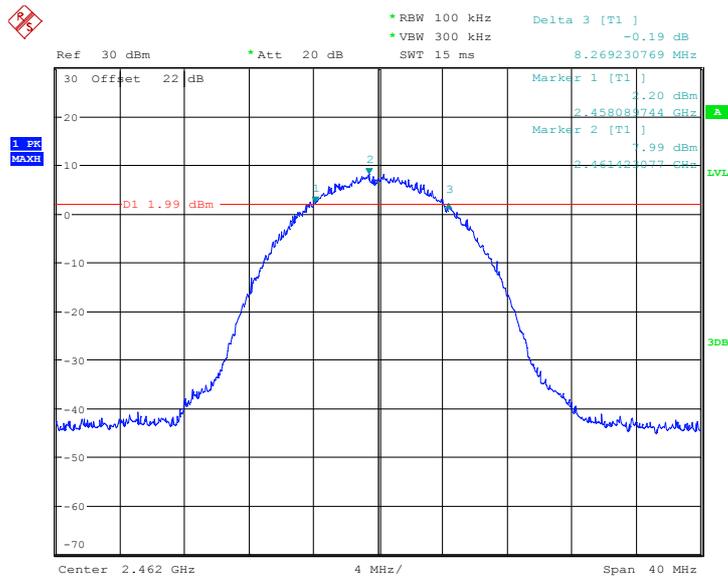
Date: 30.MAR.2013 17:50:04

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



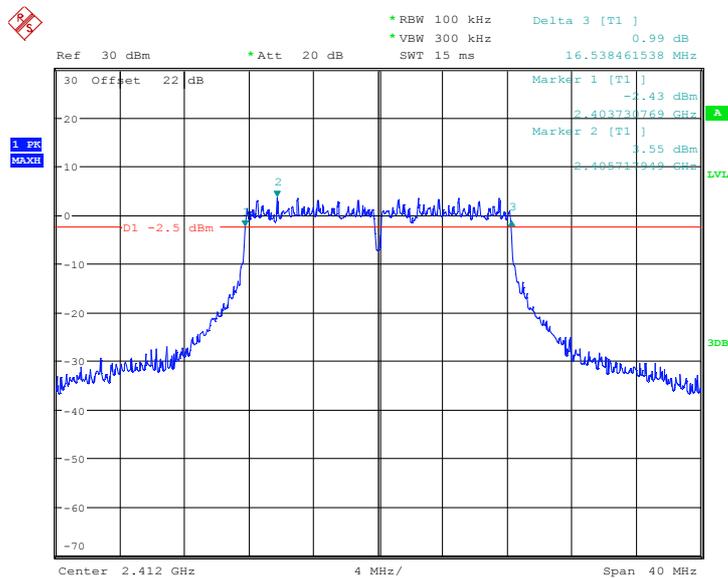
Date: 30.MAR.2013 17:52:16

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



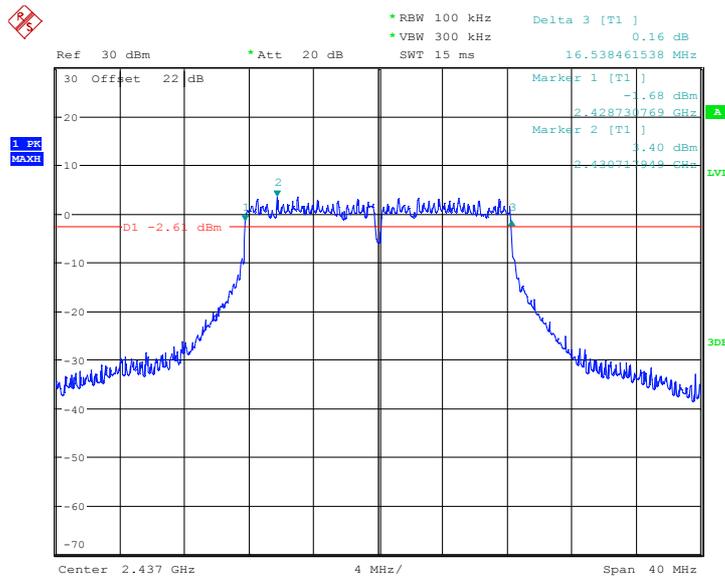
Date: 30.MAR.2013 17:55:42

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



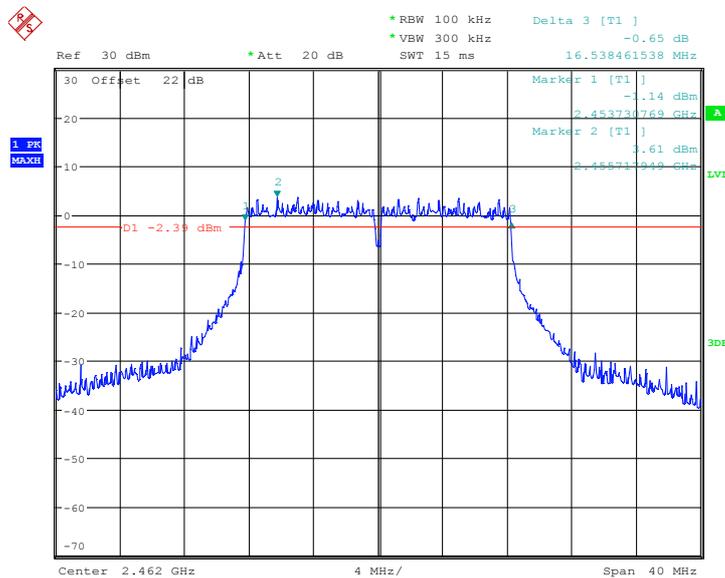
Date: 30.MAR.2013 18:00:34

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



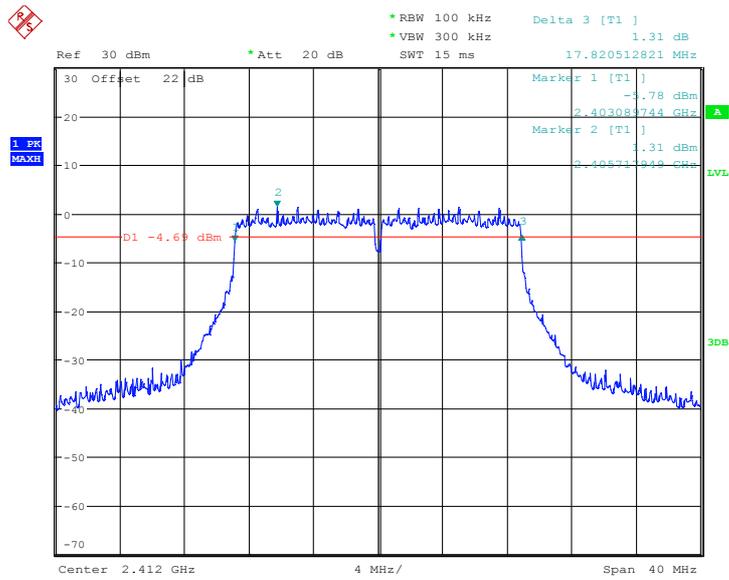
Date: 30.MAR.2013 17:59:34

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



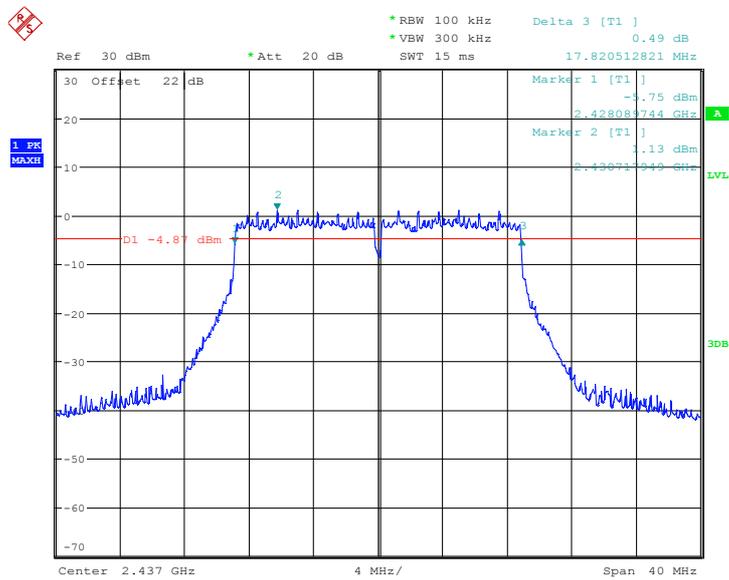
Date: 30.MAR.2013 17:57:30

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



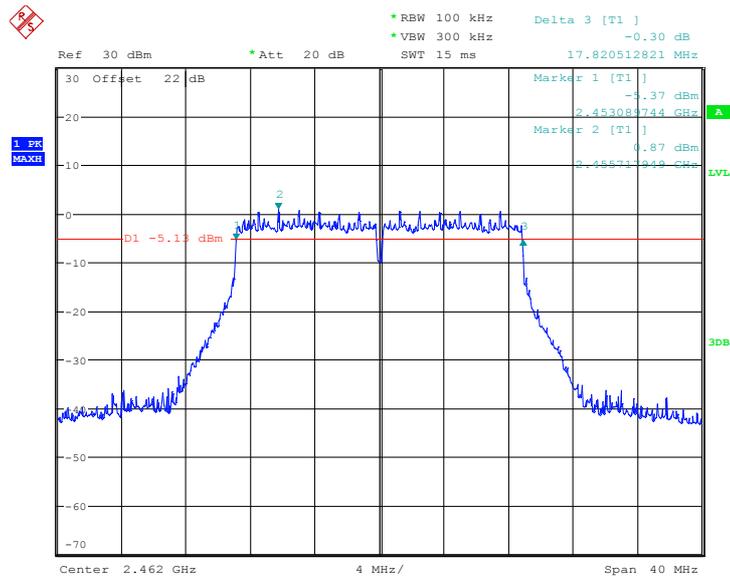
Date: 30.MAR.2013 18:02:31

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



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



Date: 30.MAR.2013 18:05:02

**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:**

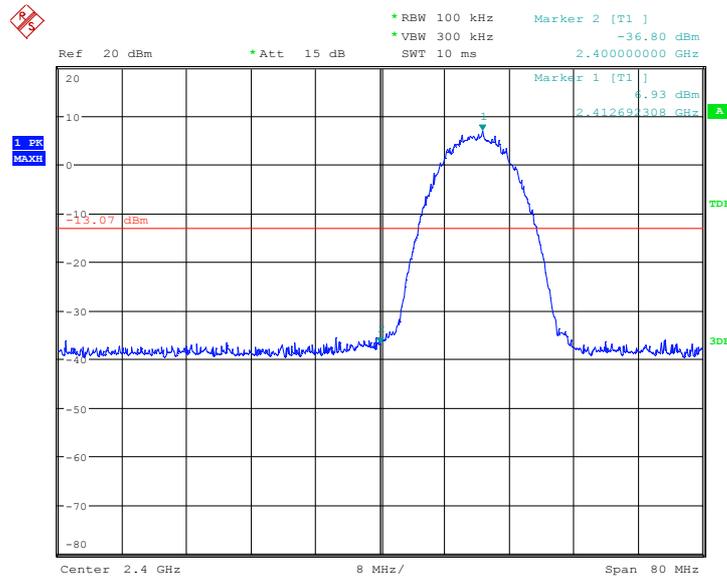
Measurement Uncertainty	0.75dB
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**Measurement Result:**

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.10	P
	11	Fig.11	P
802.11g	1	Fig.12	P
	11	Fig.13	P
802.11n	1	Fig.14	P
	11	Fig.15	P

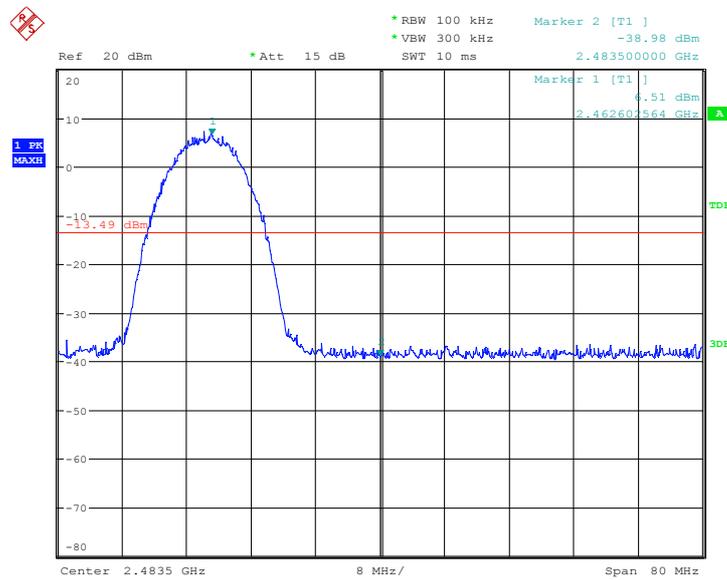
**Conclusion: PASS**

**Test graphs as below:**



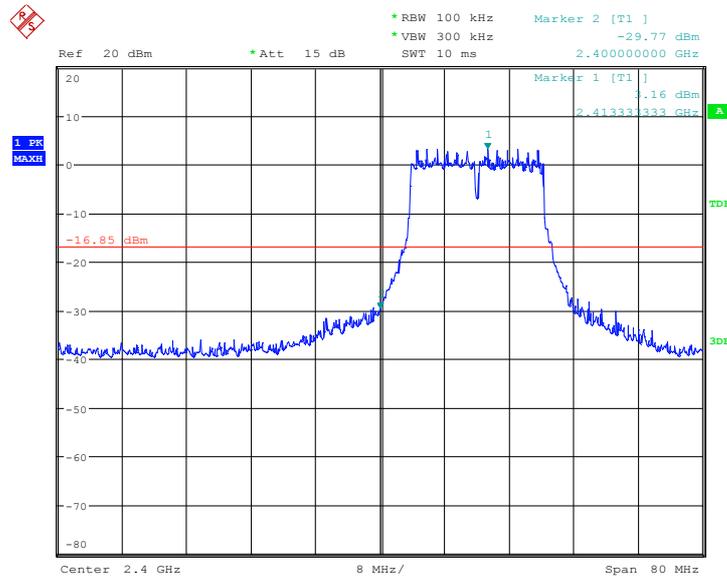
Date: 30.MAR.2013 18:15:00

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



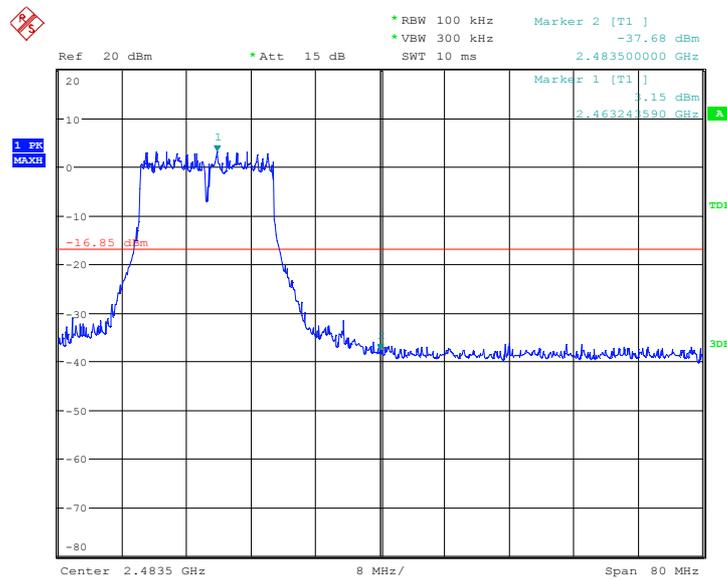
Date: 30.MAR.2013 18:15:29

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



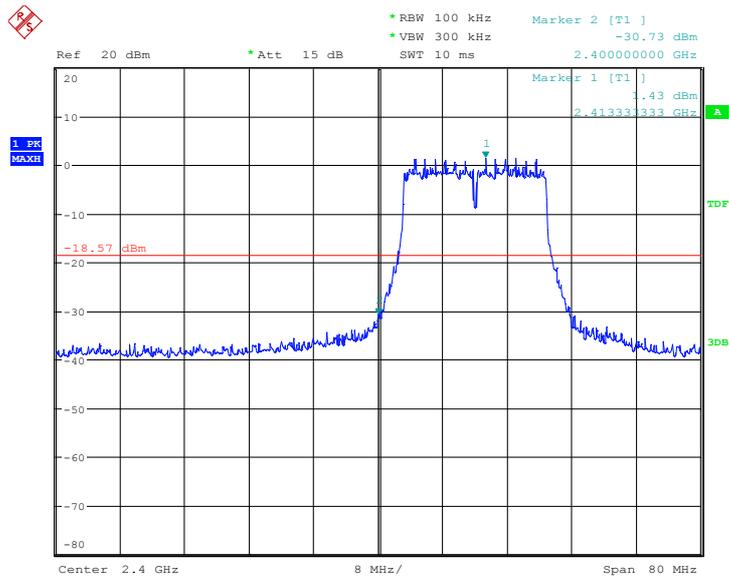
Date: 30.MAR.2013 18:16:17

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



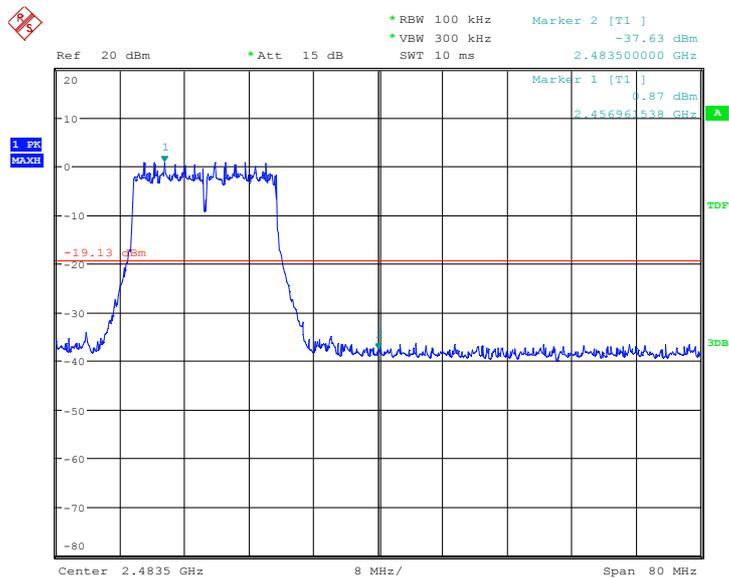
Date: 30.MAR.2013 18:16:42

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



Date: 30.MAR.2013 18:17:03

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



Date: 30.MAR.2013 18:17:27

**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
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

### 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	
	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	

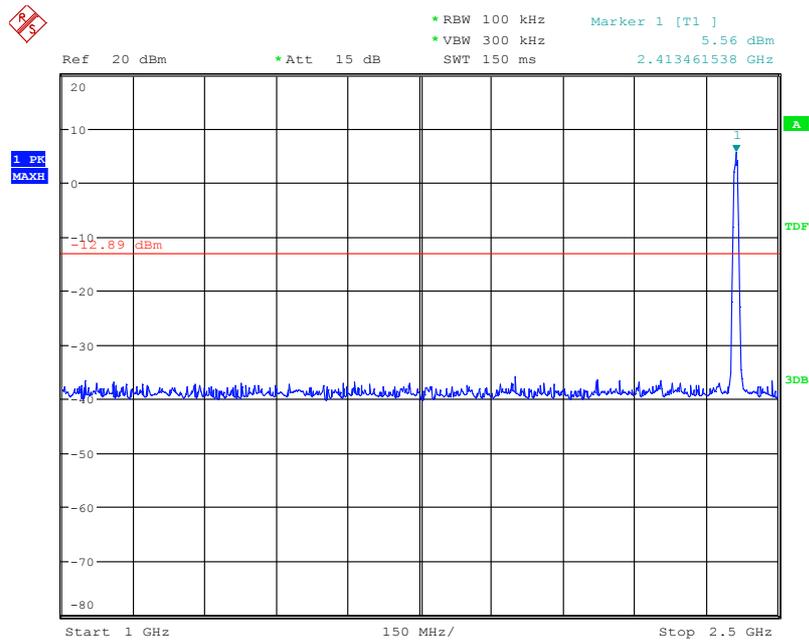
802.11n-HT20 mode

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

**Conclusion: PASS**

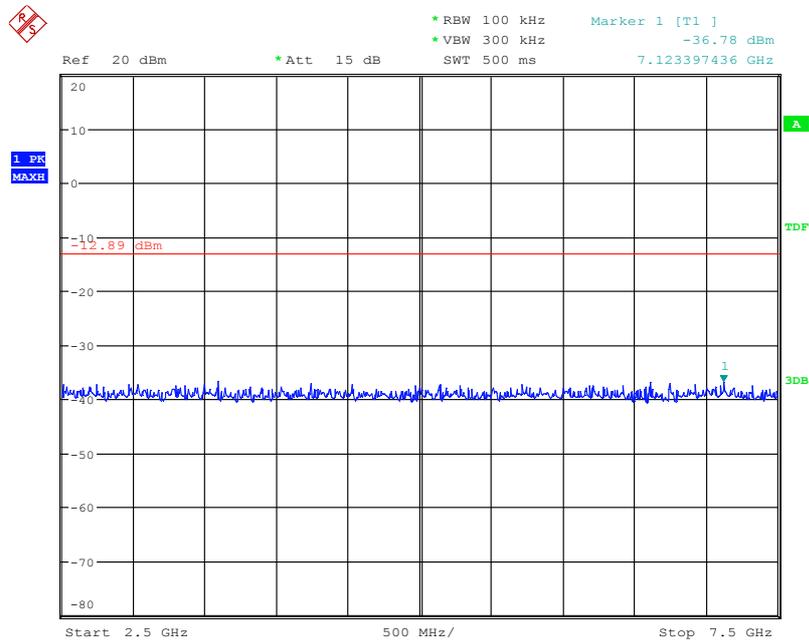
**Test graphs as below:**





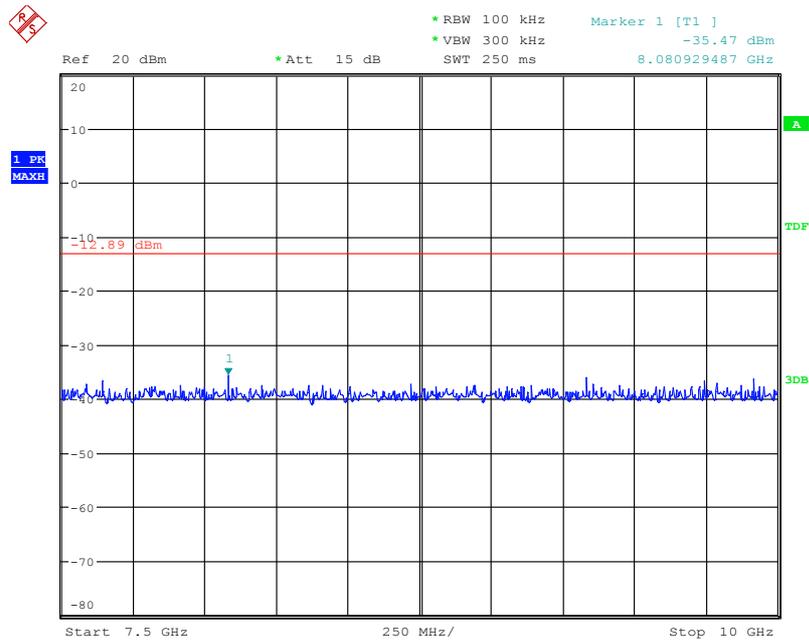
Date: 30.MAR.2013 18:18:49

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



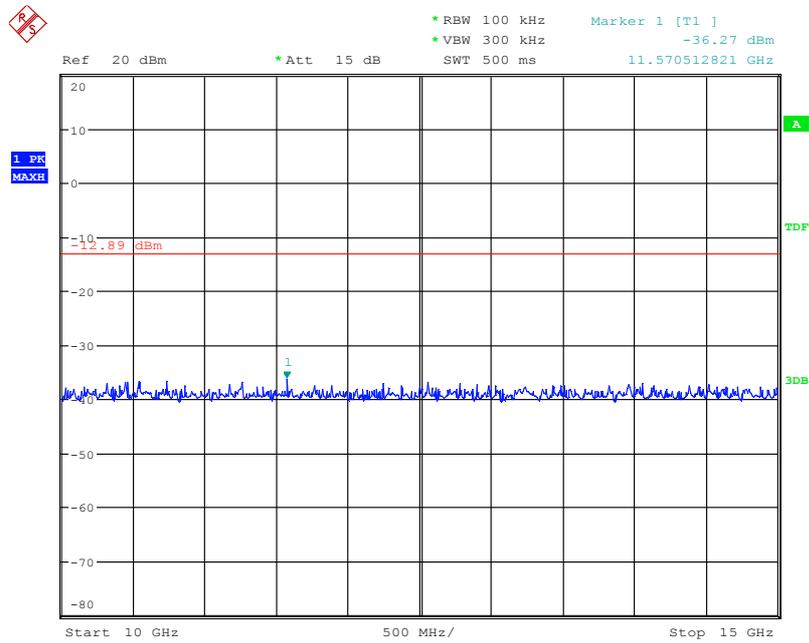
Date: 30.MAR.2013 18:18:55

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



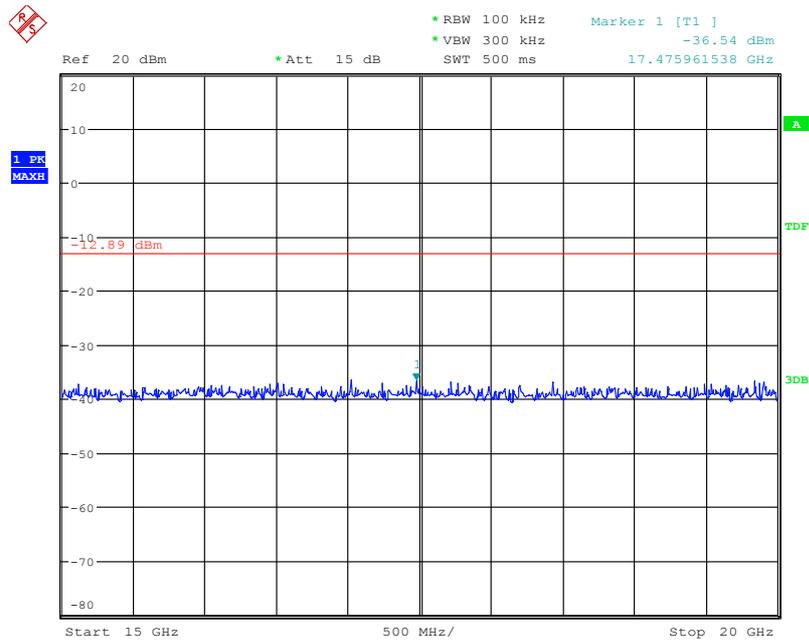
Date: 30.MAR.2013 18:19:02

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



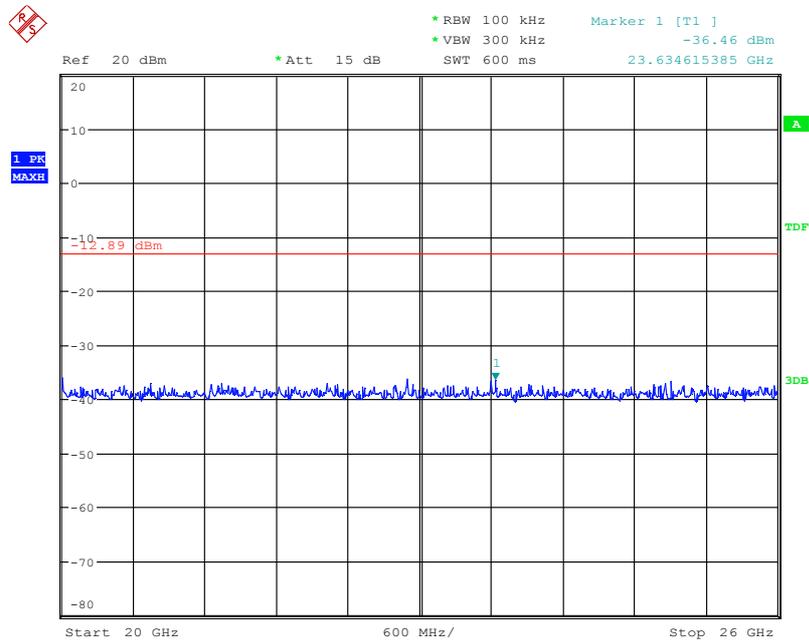
Date: 30.MAR.2013 18:19:09

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



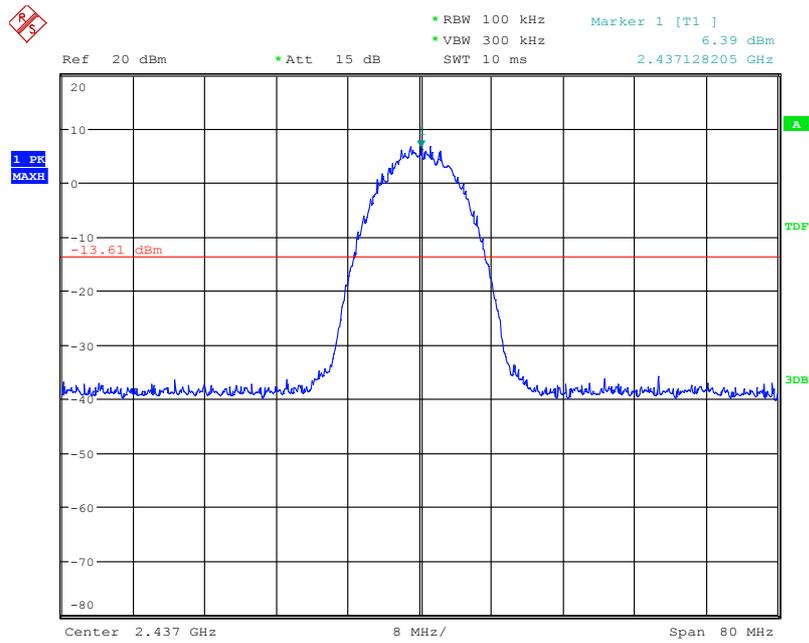
Date: 30.MAR.2013 18:19:16

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



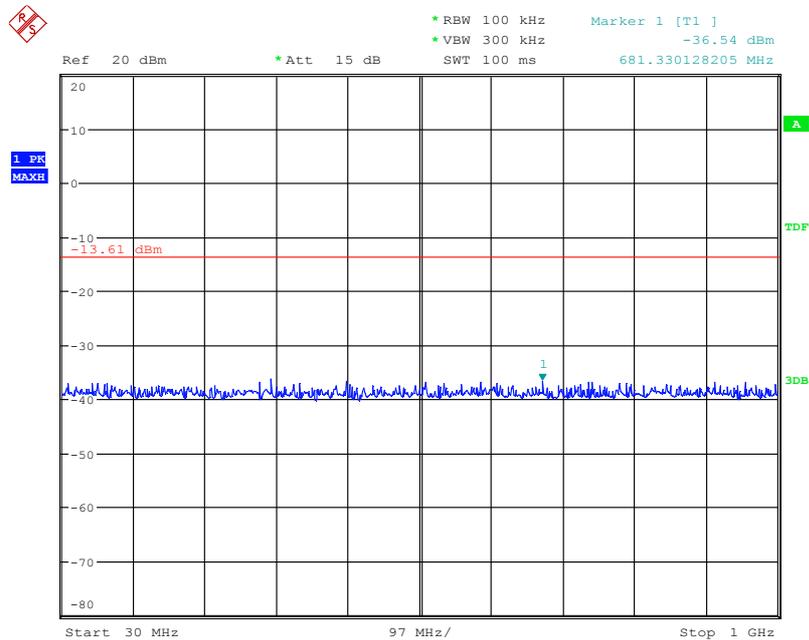
Date: 30.MAR.2013 18:19:22

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



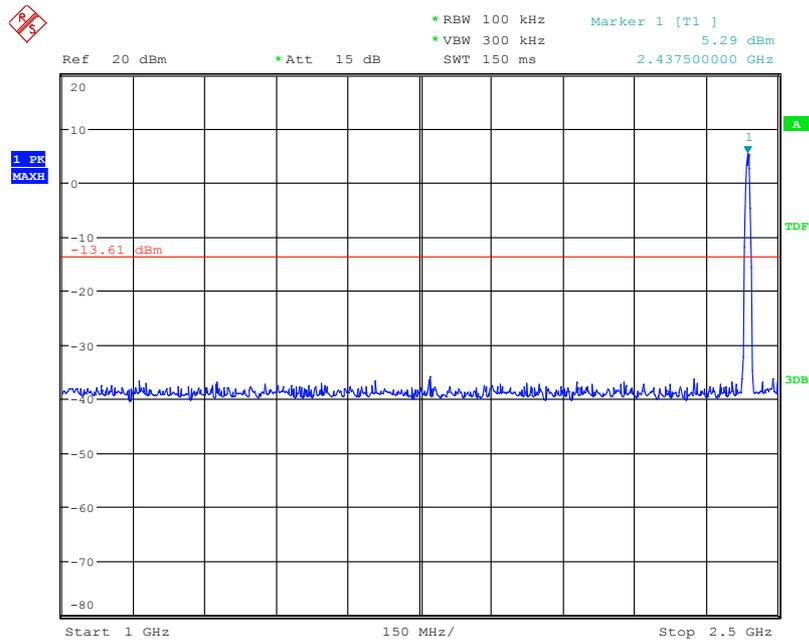
Date: 30.MAR.2013 18:19:52

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



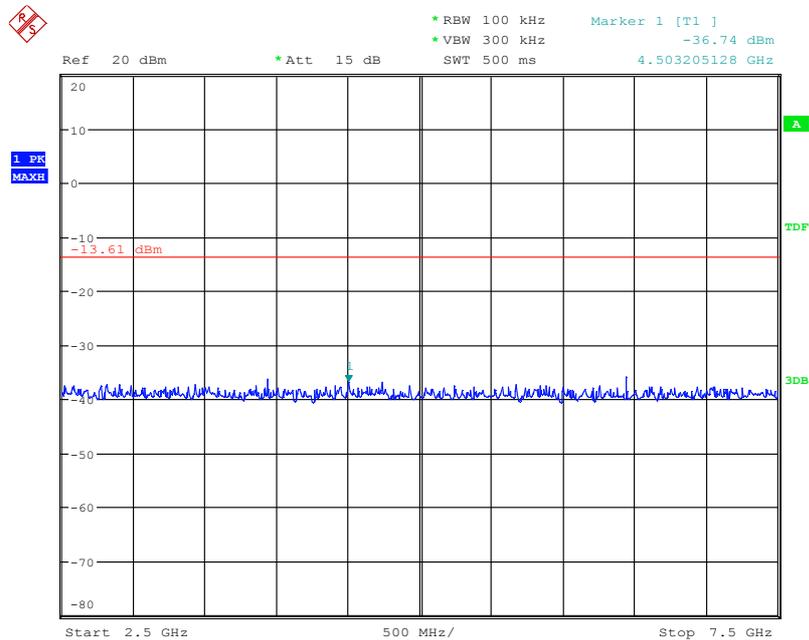
Date: 30.MAR.2013 18:19:59

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



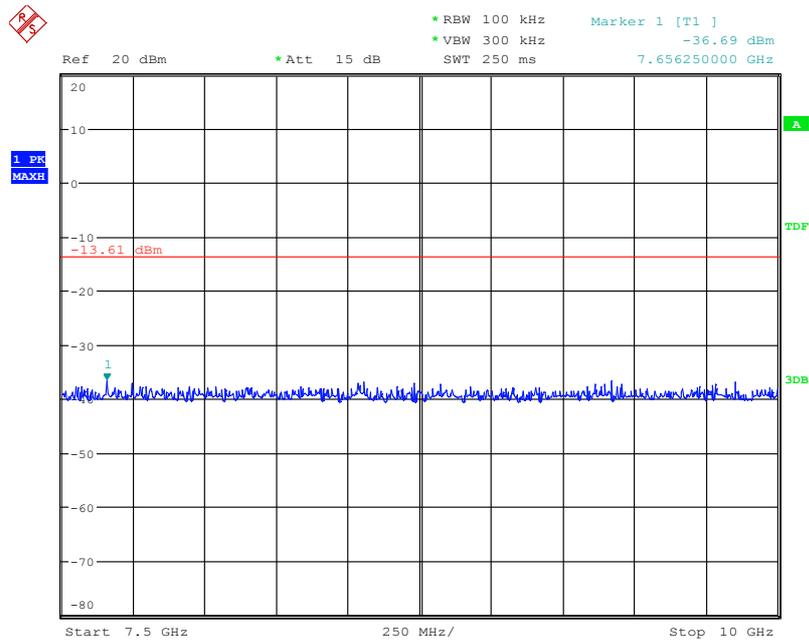
Date: 30.MAR.2013 18:20:06

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



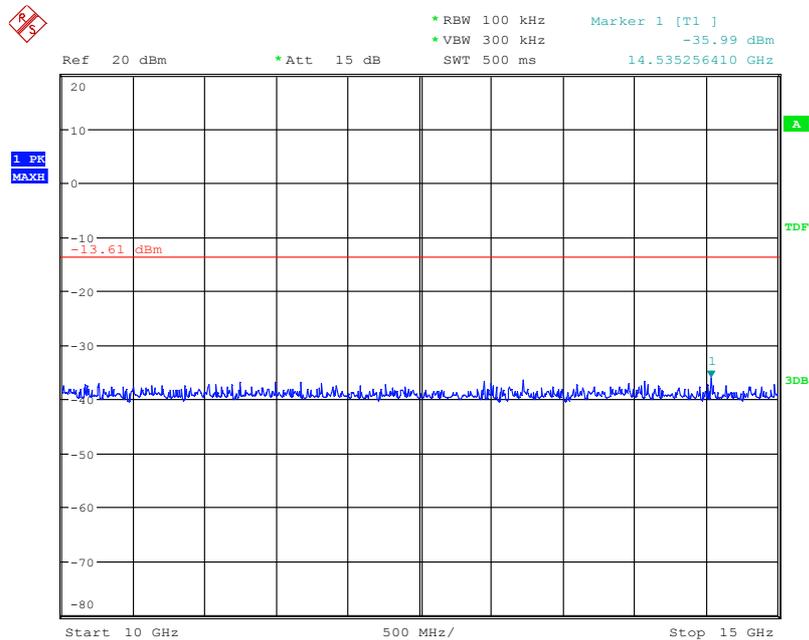
Date: 30.MAR.2013 18:20:13

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



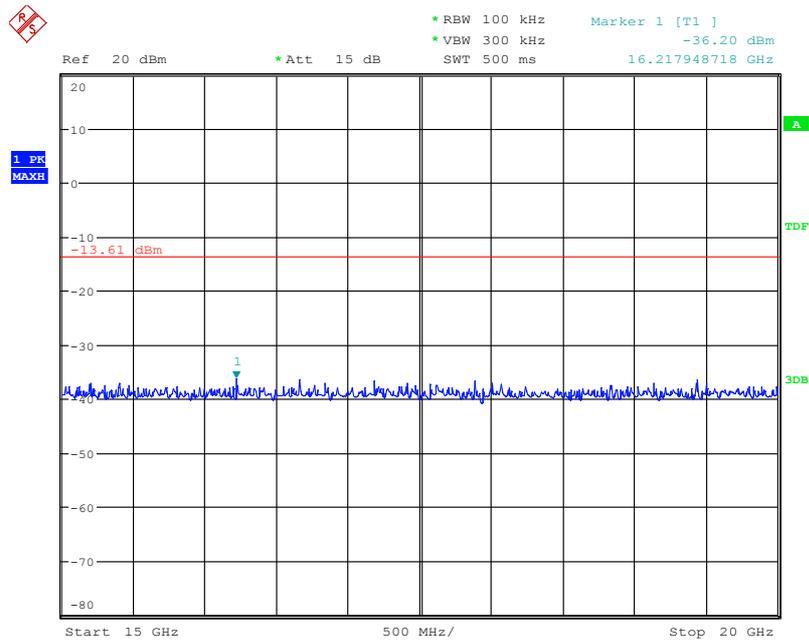
Date: 30.MAR.2013 18:20:19

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



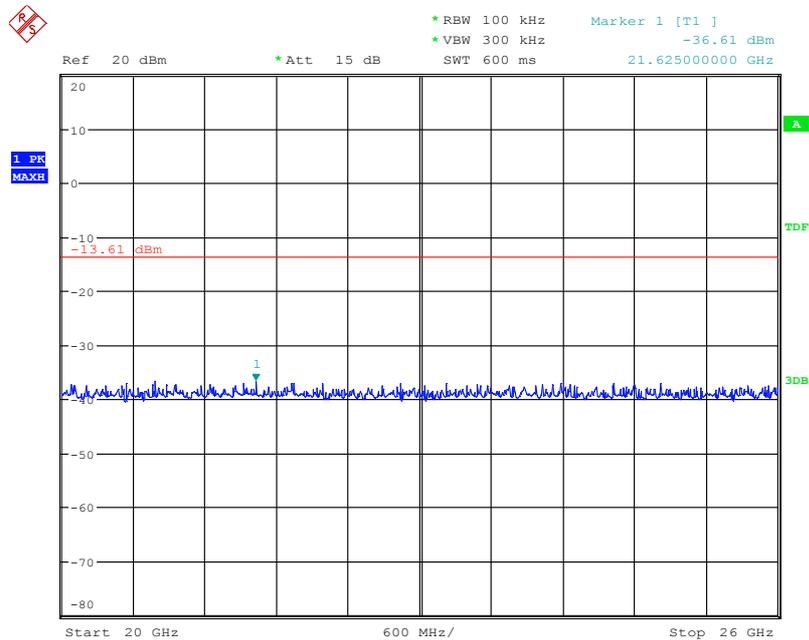
Date: 30.MAR.2013 18:20:26

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



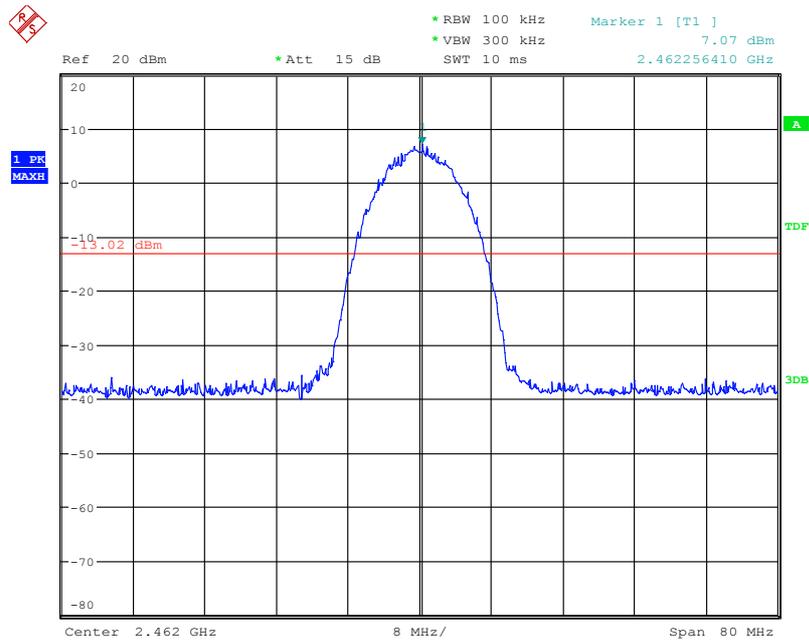
Date: 30.MAR.2013 18:20:33

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



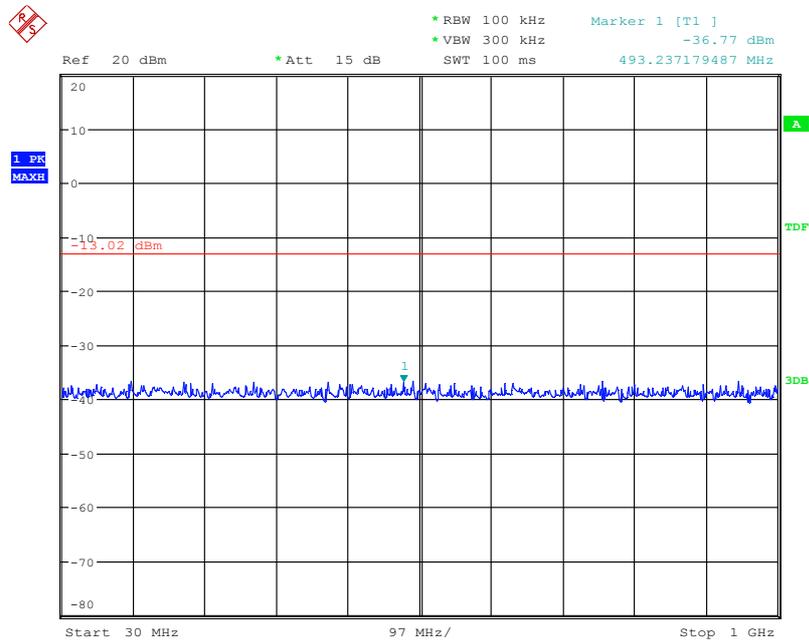
Date: 30.MAR.2013 18:20:40

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



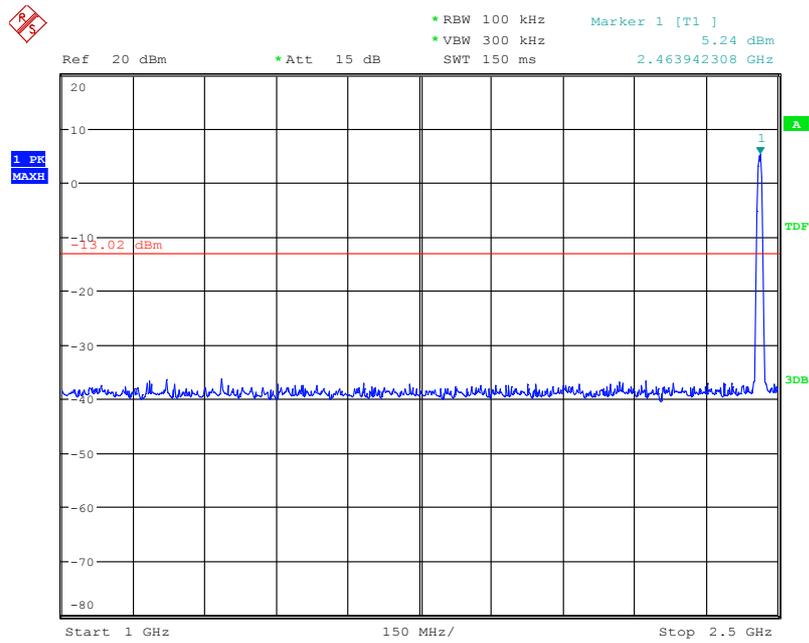
Date: 30.MAR.2013 18:21:38

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



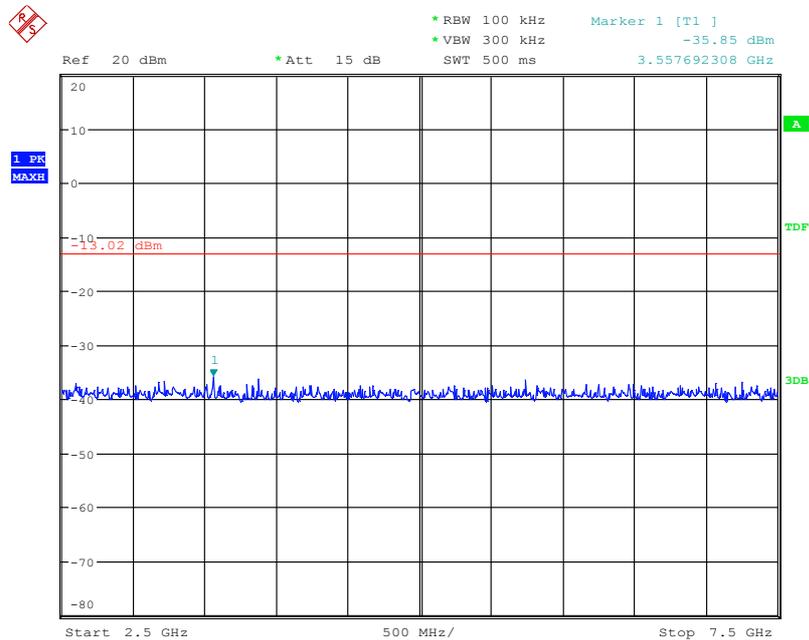
Date: 30.MAR.2013 18:21:45

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



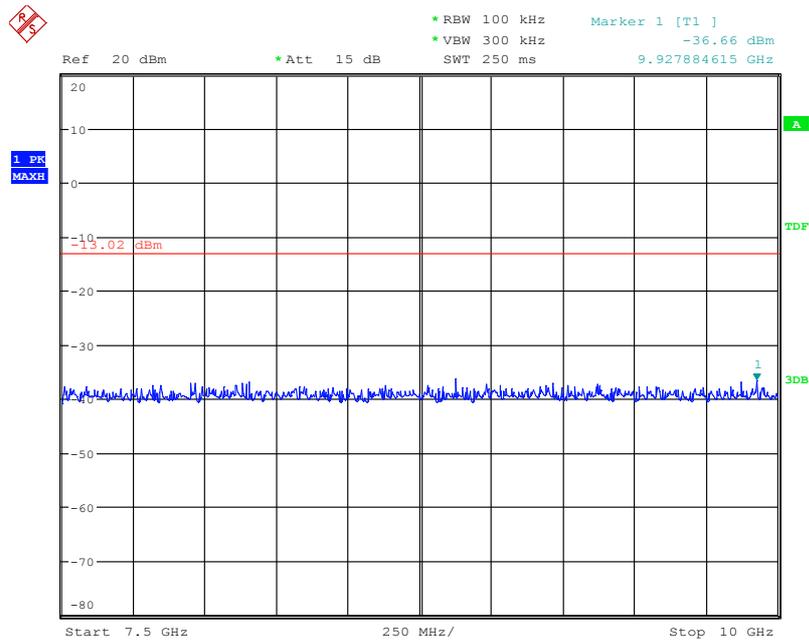
Date: 30.MAR.2013 18:21:52

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



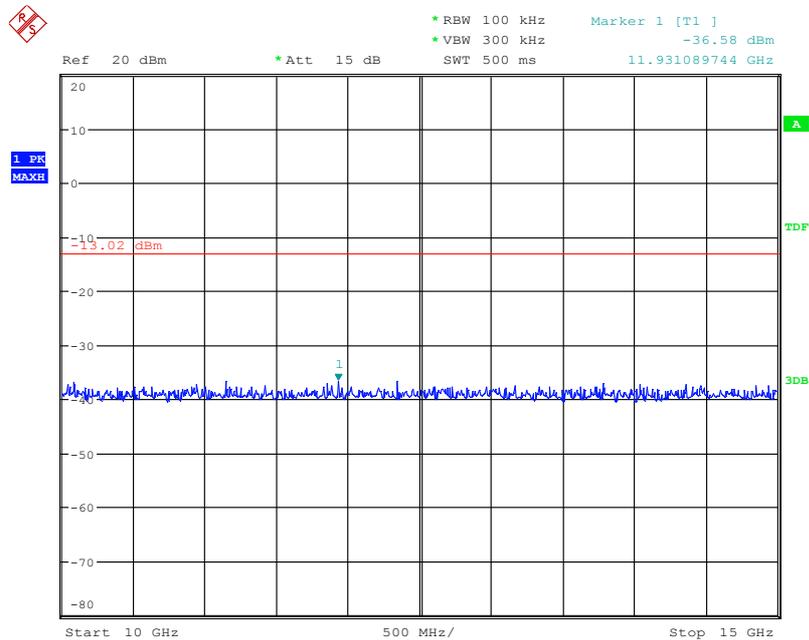
Date: 30.MAR.2013 18:21:59

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



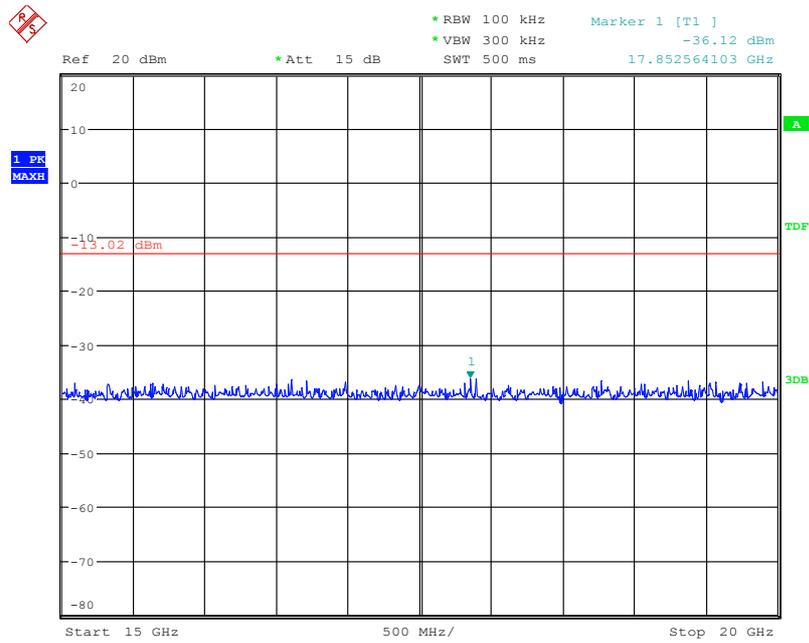
Date: 30.MAR.2013 18:22:05

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



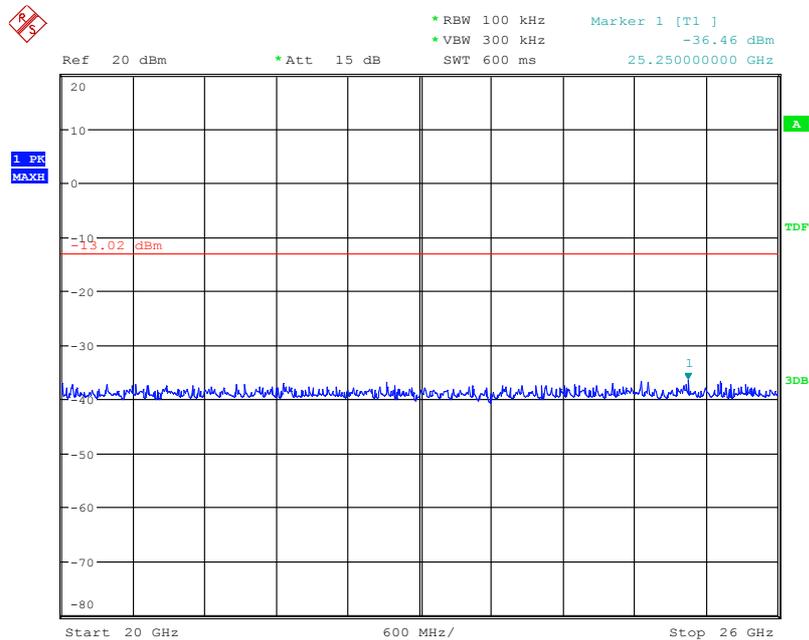
Date: 30.MAR.2013 18:22:12

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



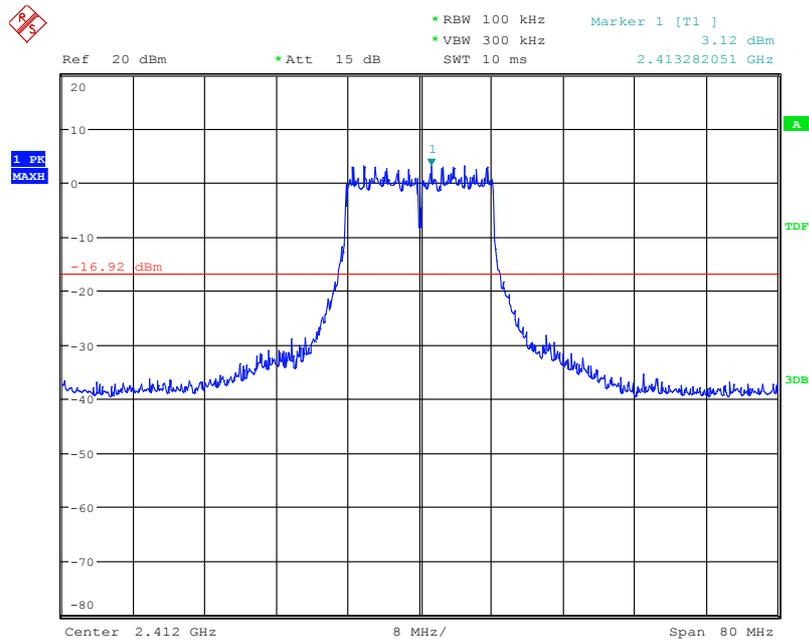
Date: 30.MAR.2013 18:22:19

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



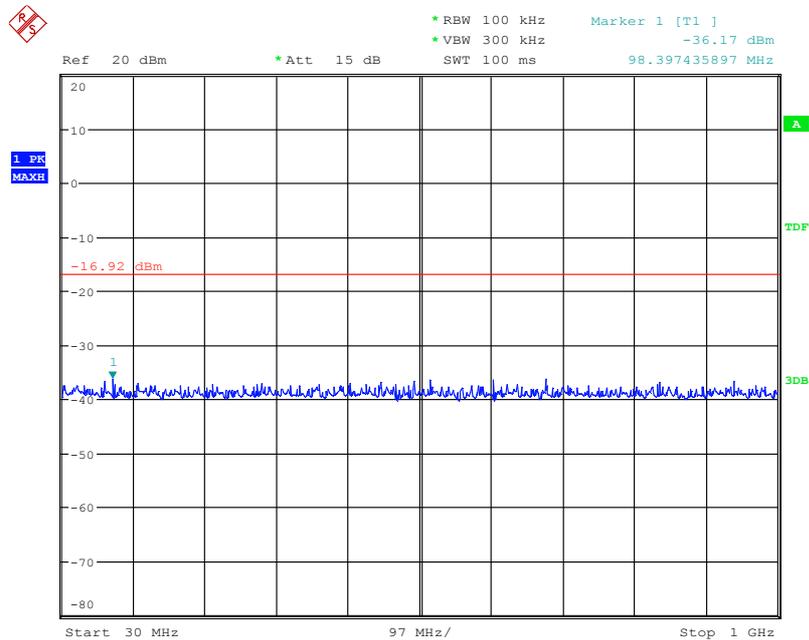
Date: 30.MAR.2013 18:22:26

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



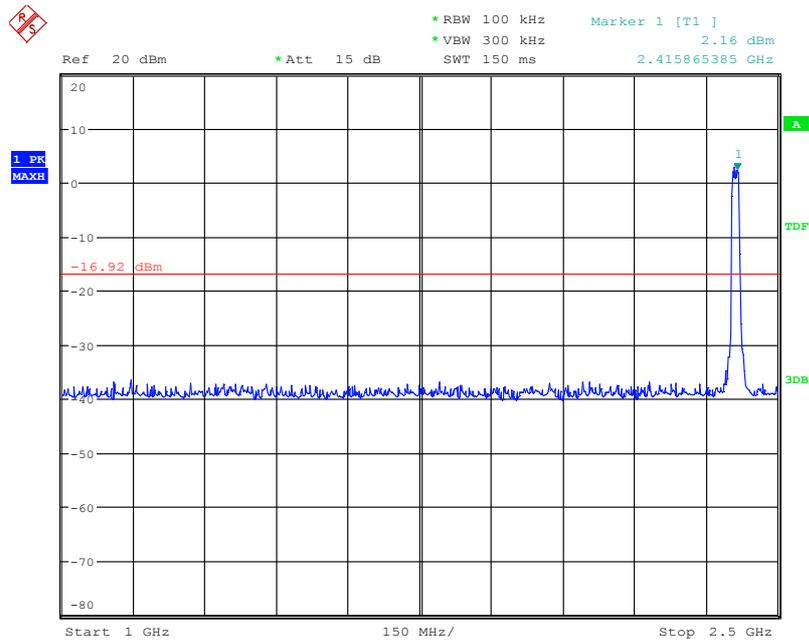
Date: 30.MAR.2013 18:30:48

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



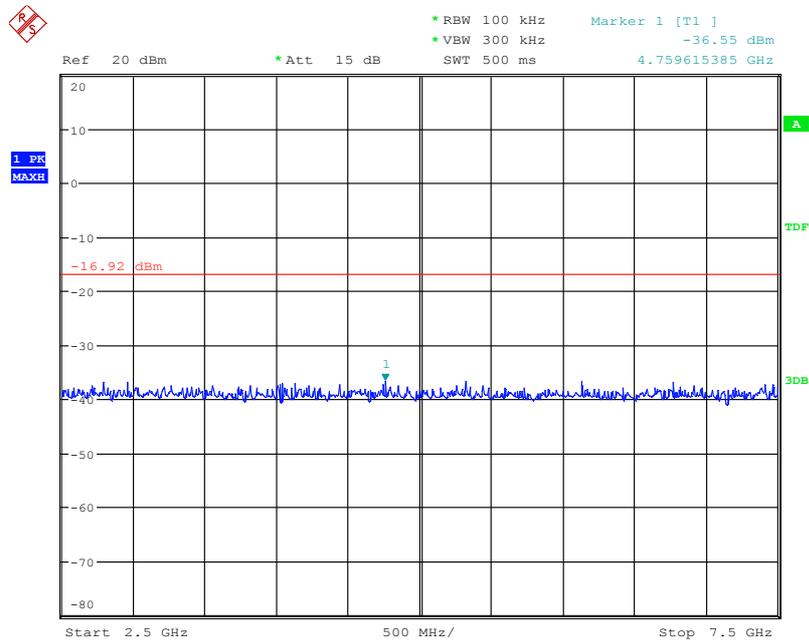
Date: 30.MAR.2013 18:30:55

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



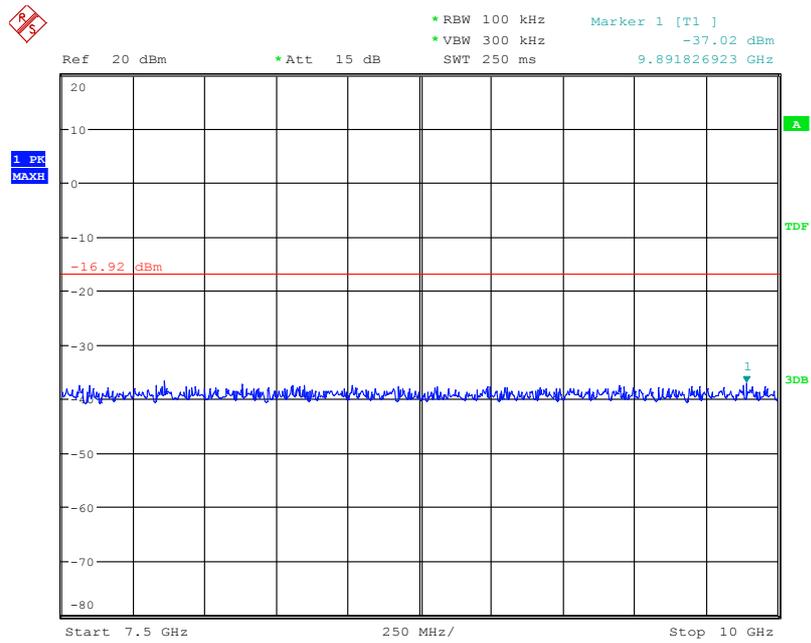
Date: 30.MAR.2013 18:31:02

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



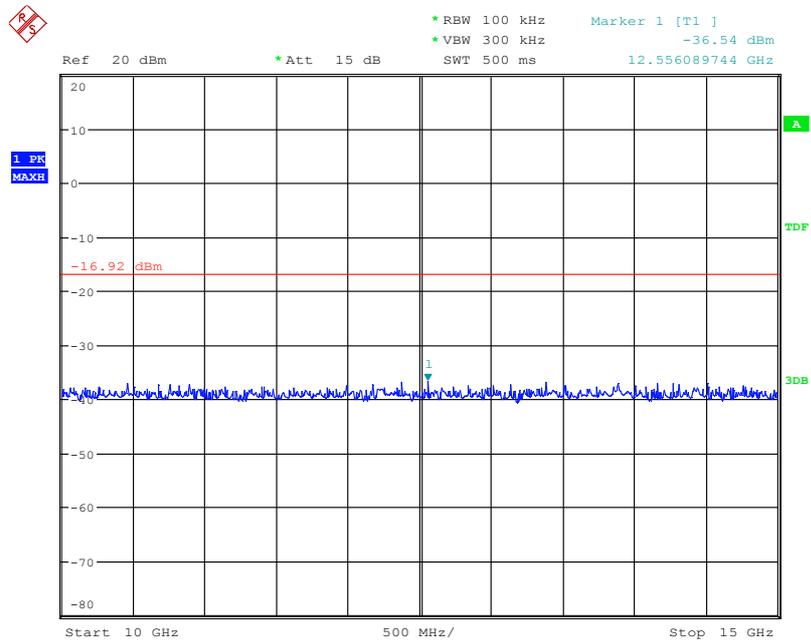
Date: 30.MAR.2013 18:31:09

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



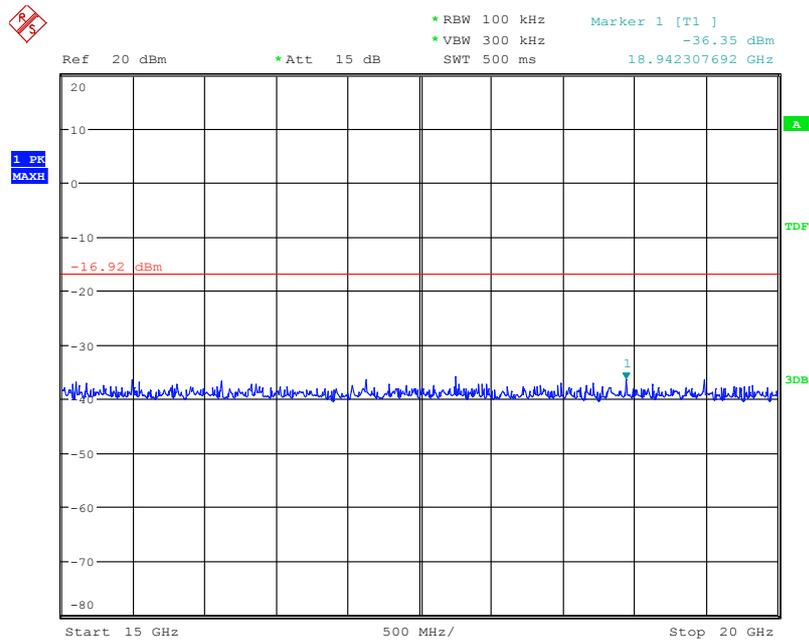
Date: 30.MAR.2013 18:31:15

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



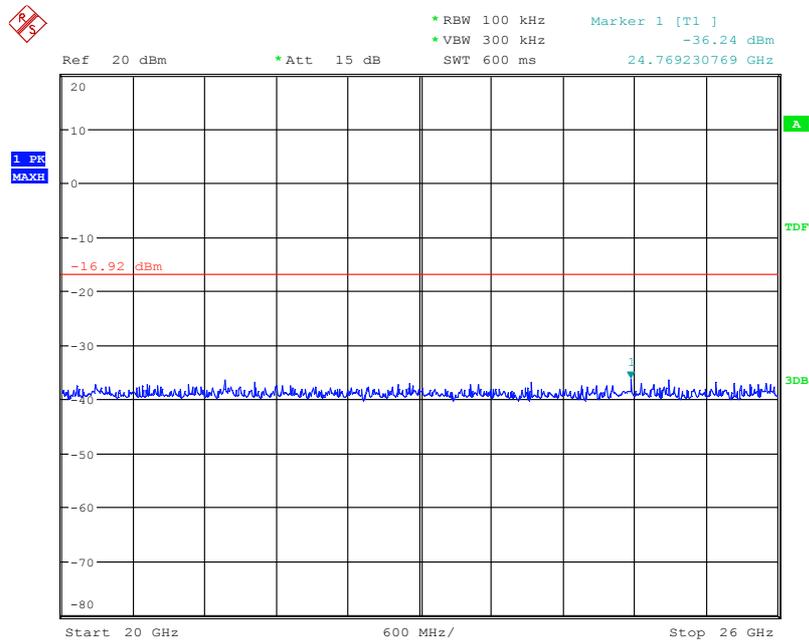
Date: 30.MAR.2013 18:31:22

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



Date: 30.MAR.2013 18:31:29

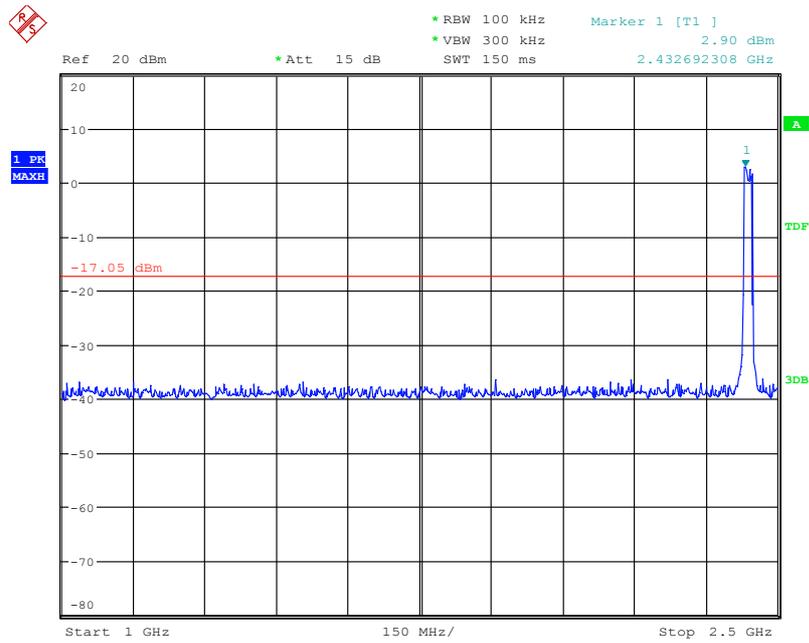
**Fig. 46 Conducted Spurious Emission (802.11g, Ch1, 15 GHz-20 GHz)**



Date: 30.MAR.2013 18:31:36

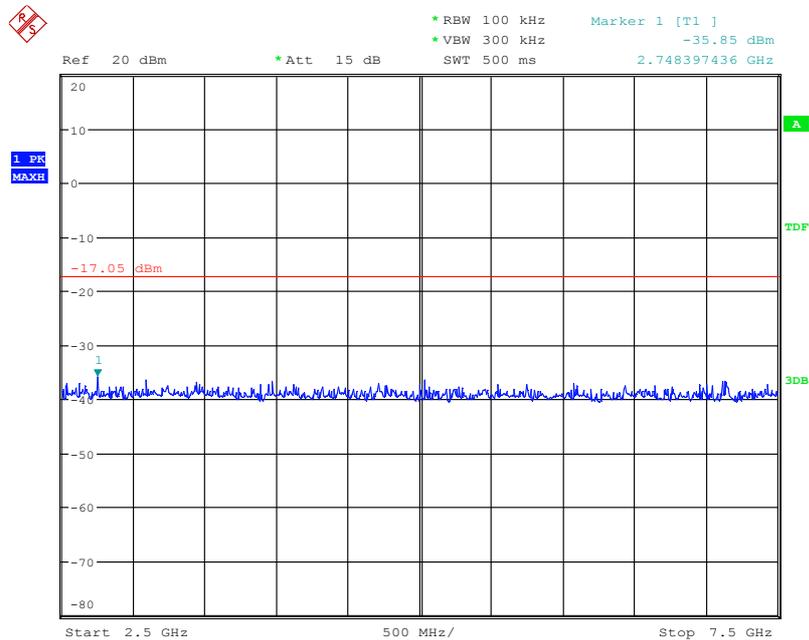
**Fig. 47 Conducted Spurious Emission (802.11g, Ch1, 20 GHz-26 GHz)**





Date: 30.MAR.2013 18:24:01

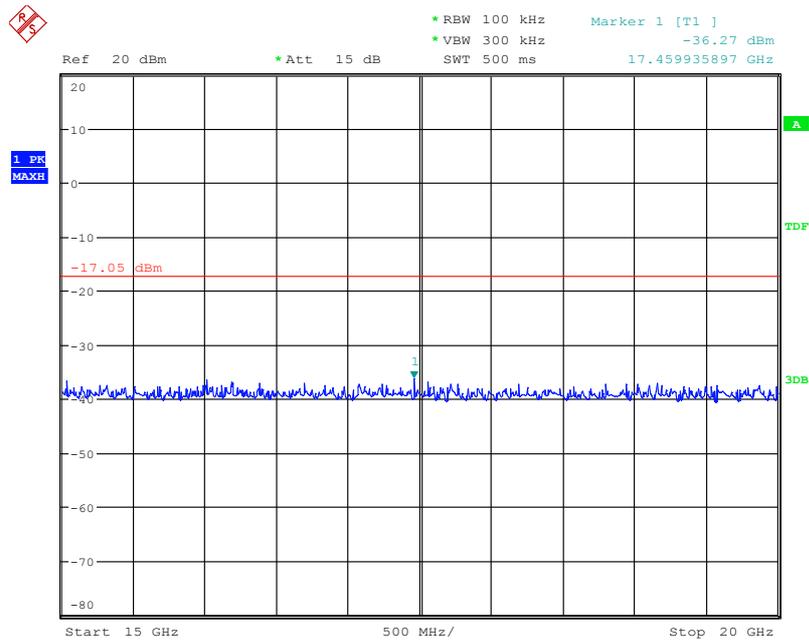
**Fig. 50 Conducted Spurious Emission (802.11g, Ch6, 1 GHz-2.5 GHz)**



Date: 30.MAR.2013 18:24:08

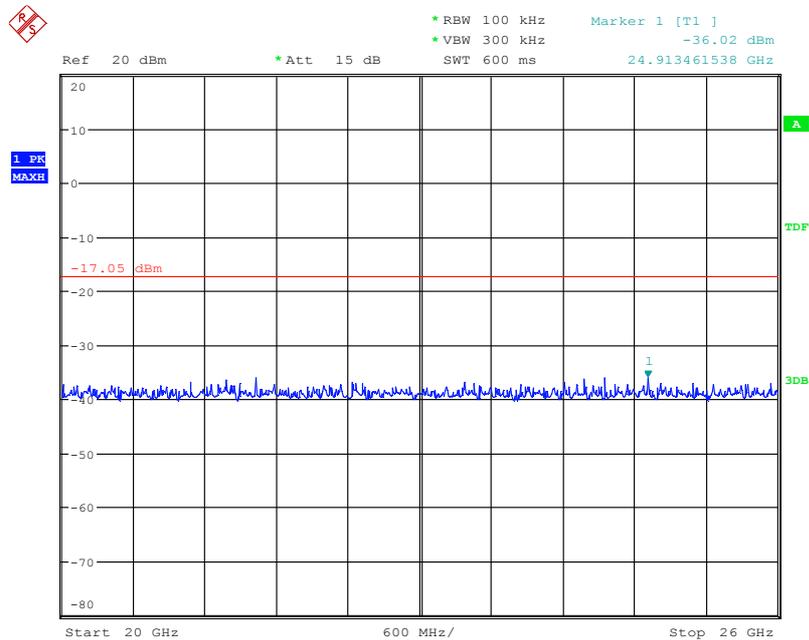
**Fig. 51 Conducted Spurious Emission (802.11g, Ch6, 2.5 GHz-7.5 GHz)**





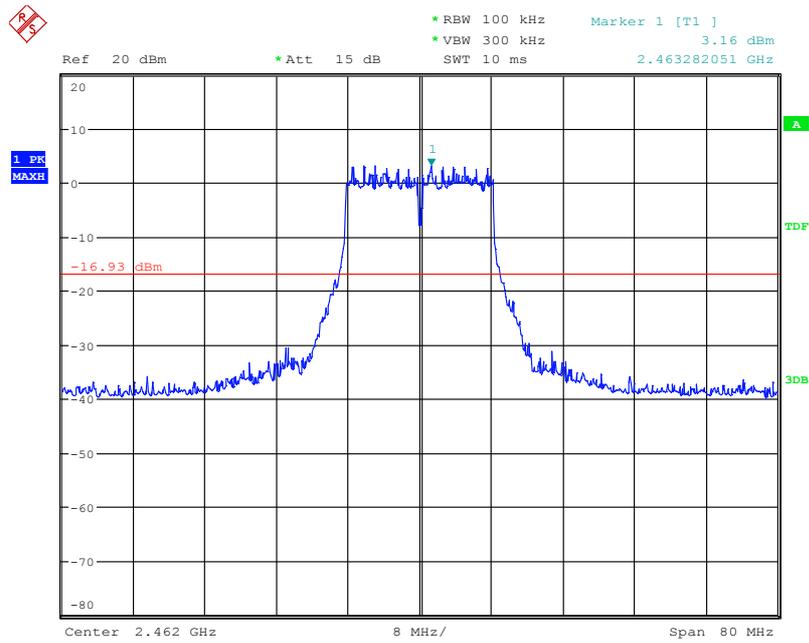
Date: 30.MAR.2013 18:24:28

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



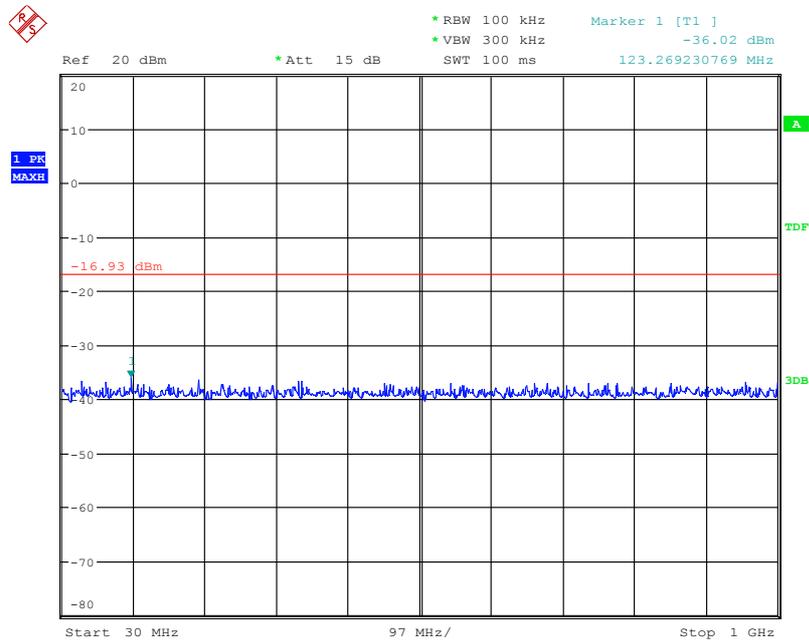
Date: 30.MAR.2013 18:24:35

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



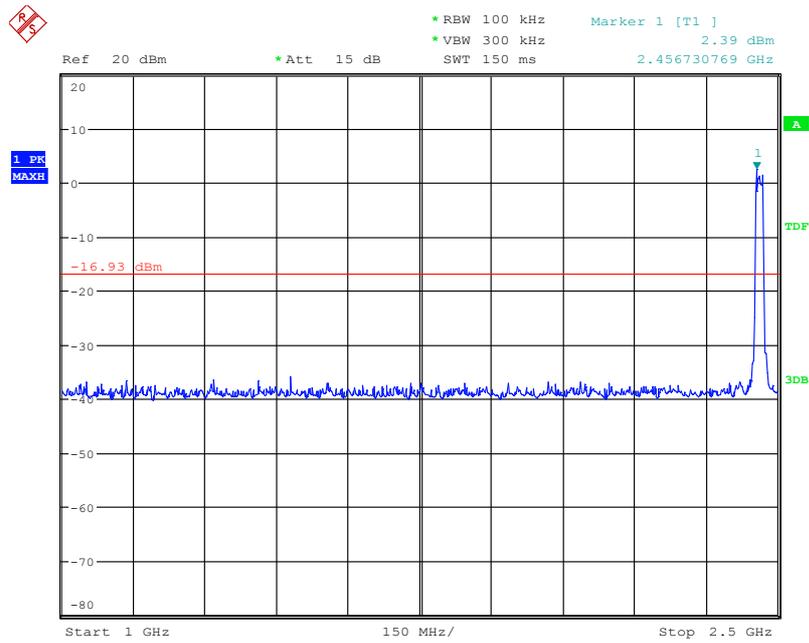
Date: 30.MAR.2013 18:25:42

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



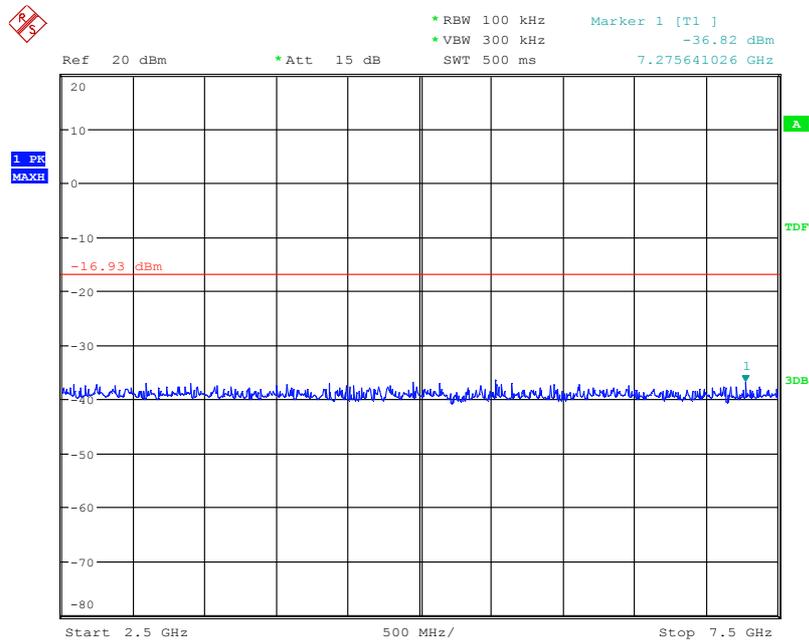
Date: 30.MAR.2013 18:25:49

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



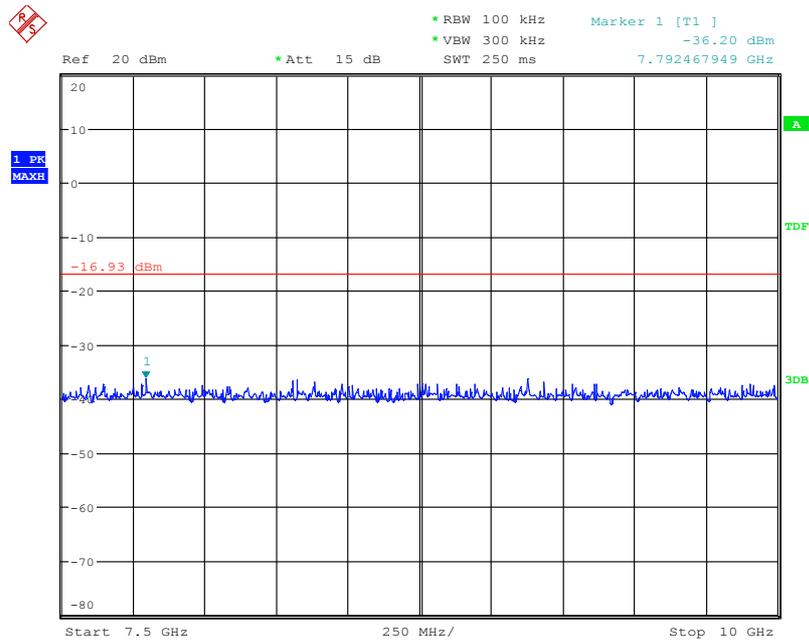
Date: 30.MAR.2013 18:25:55

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



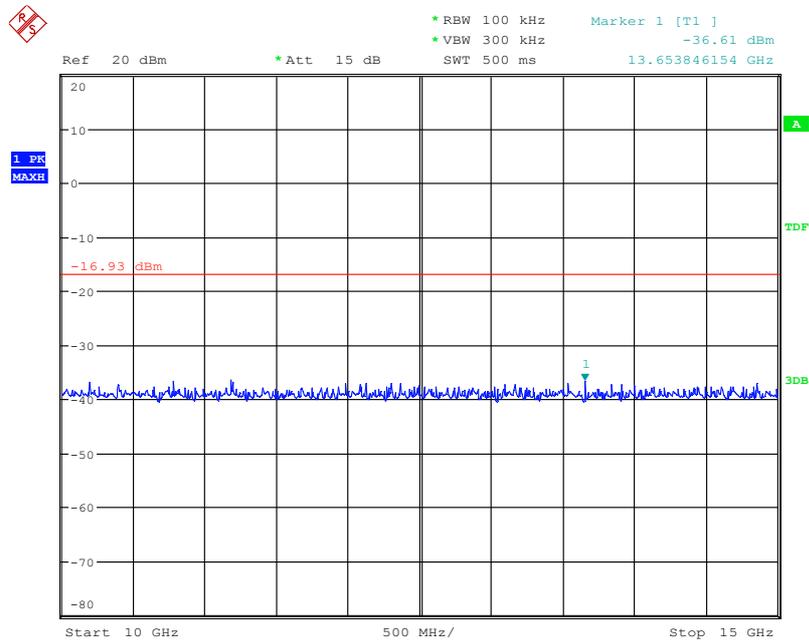
Date: 30.MAR.2013 18:26:02

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



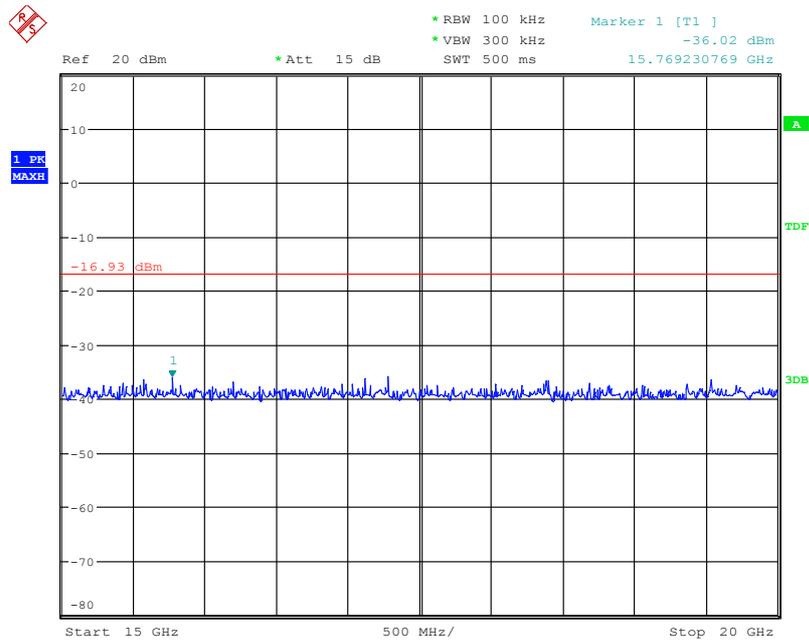
Date: 30.MAR.2013 18:26:09

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



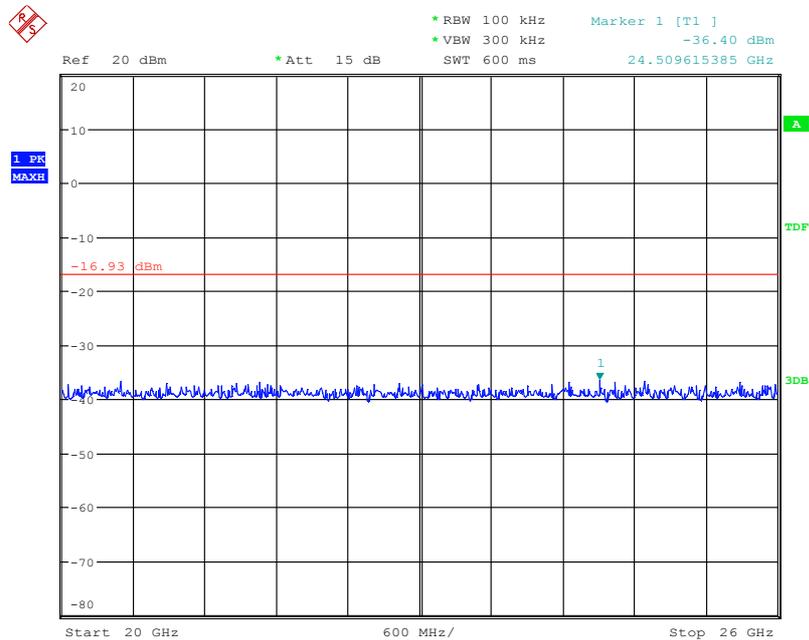
Date: 30.MAR.2013 18:26:16

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



Date: 30.MAR.2013 18:26:22

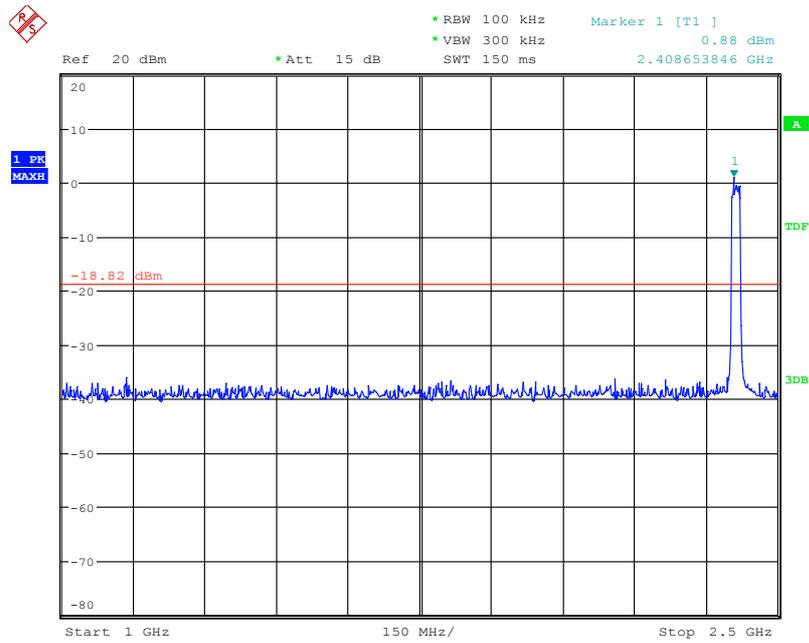
**Fig. 62 Conducted Spurious Emission (802.11g, Ch11, 15 GHz-20 GHz)**



Date: 30.MAR.2013 18:26:29

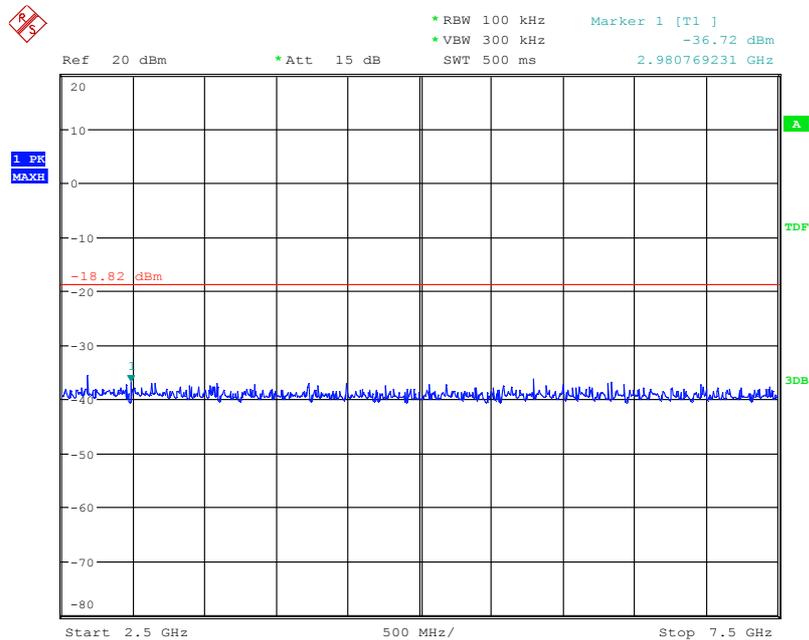
**Fig. 63 Conducted Spurious Emission (802.11g, Ch11, 20 GHz-26 GHz)**





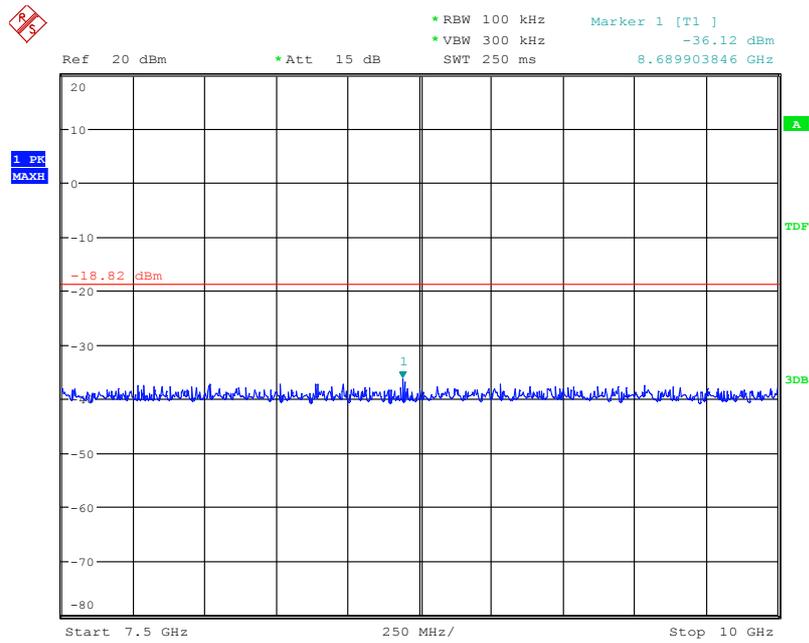
Date: 30.MAR.2013 18:27:05

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



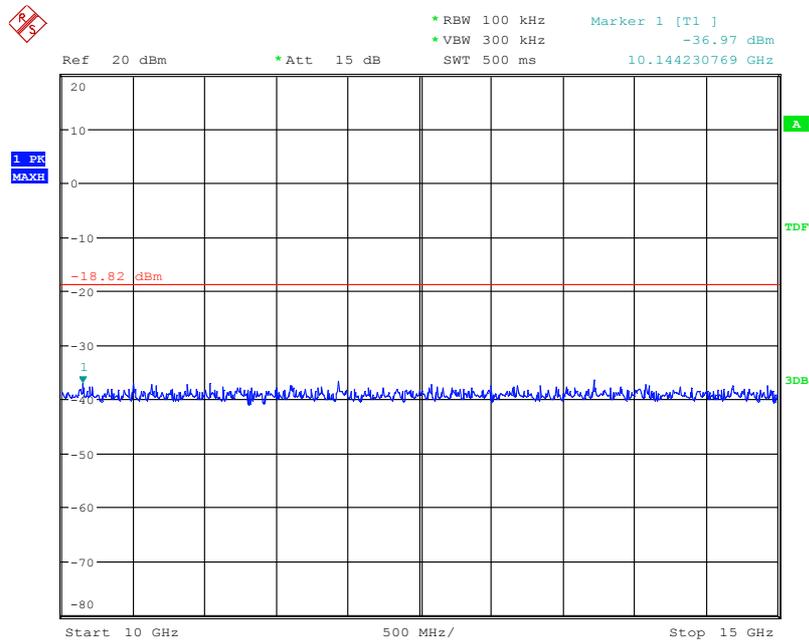
Date: 30.MAR.2013 18:27:11

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



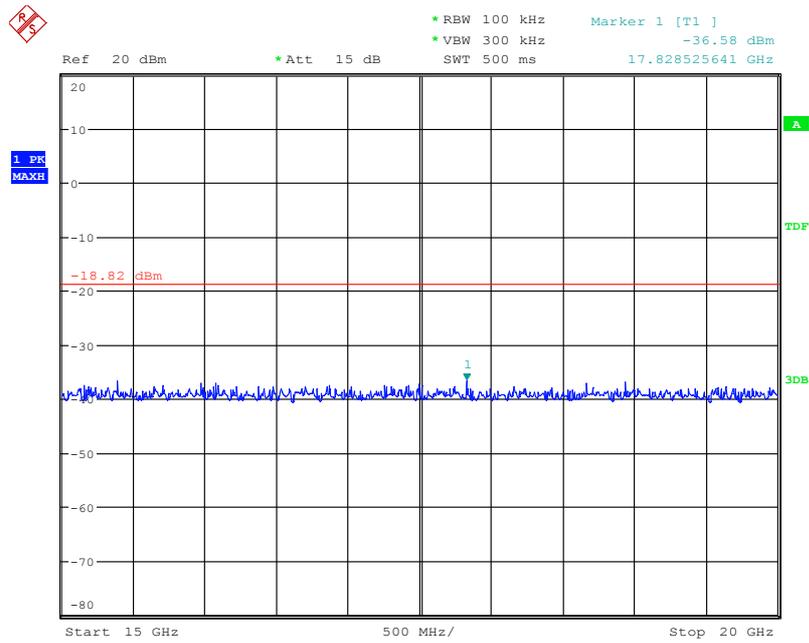
Date: 30.MAR.2013 18:27:17

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



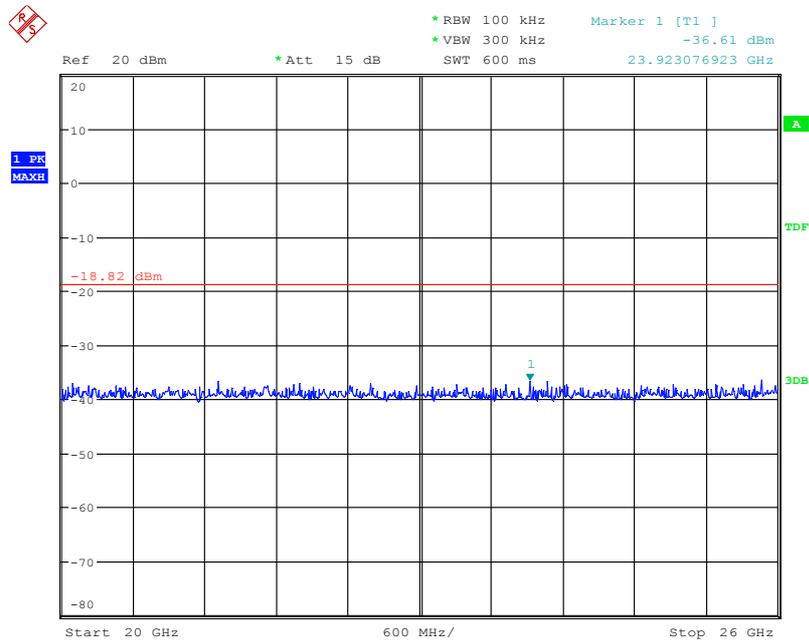
Date: 30.MAR.2013 18:27:23

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



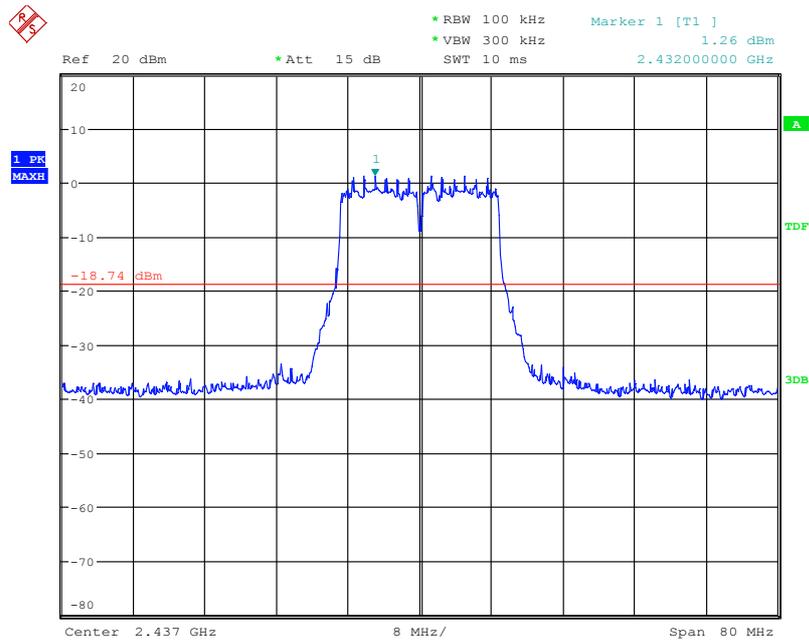
Date: 30.MAR.2013 18:27:29

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



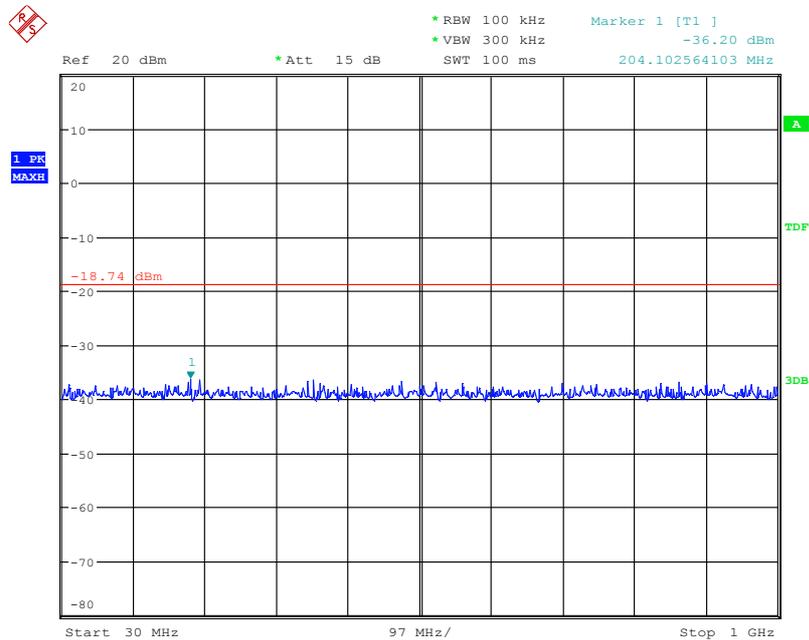
Date: 30.MAR.2013 18:27:34

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



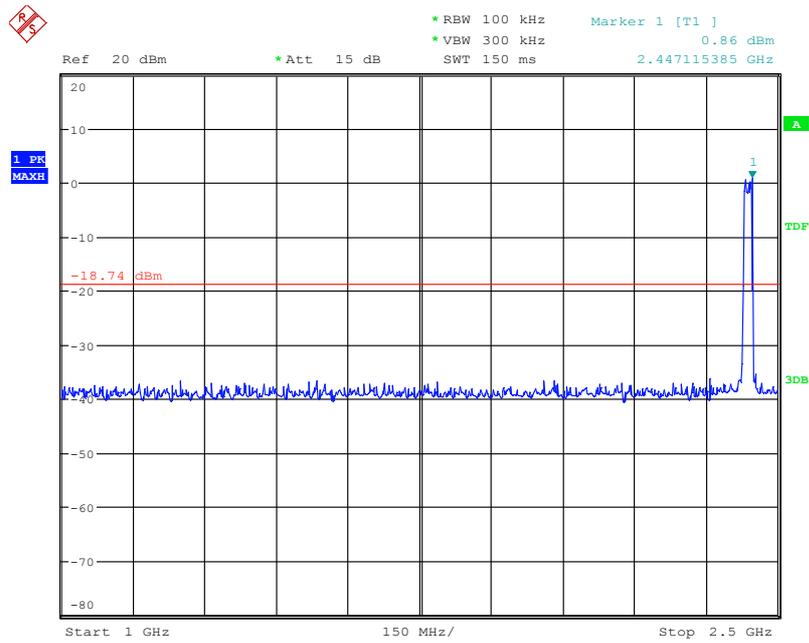
Date: 30.MAR.2013 18:28:06

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



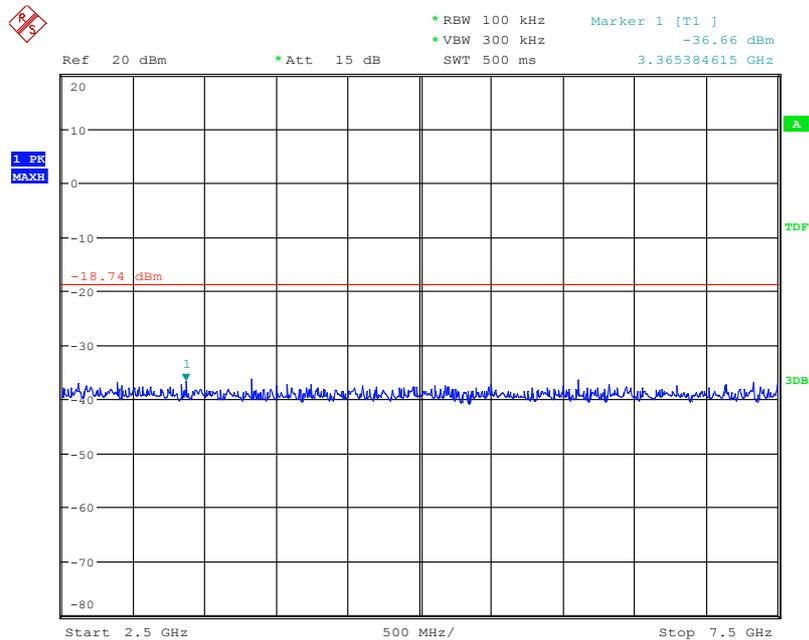
Date: 30.MAR.2013 18:28:12

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



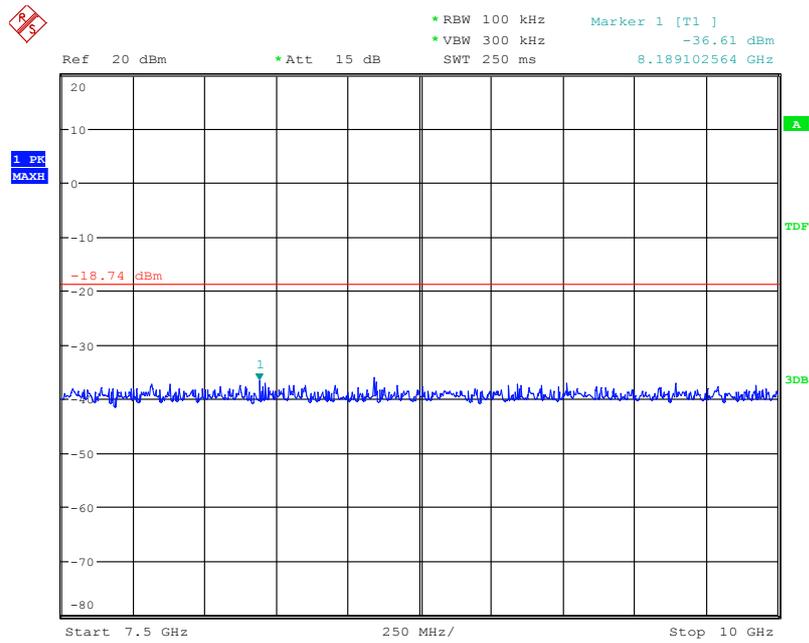
Date: 30.MAR.2013 18:28:18

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



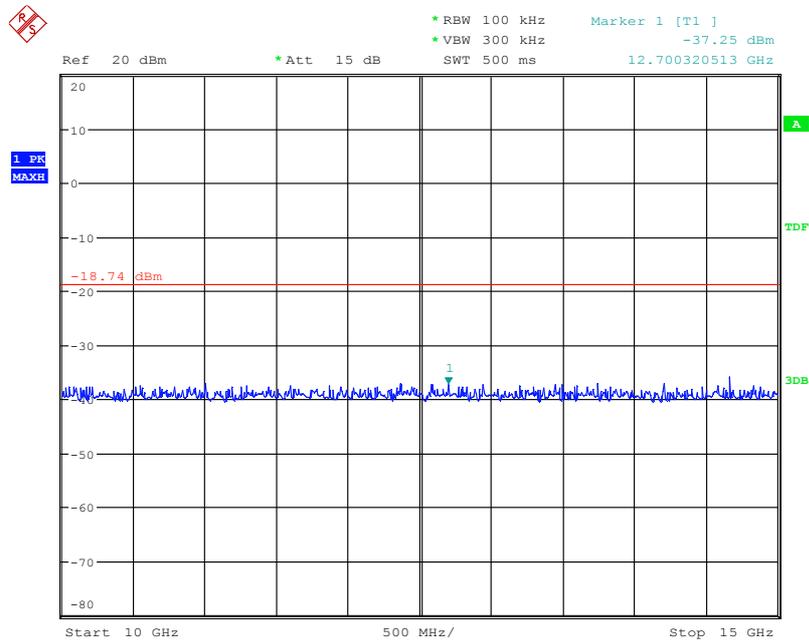
Date: 30.MAR.2013 18:28:24

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



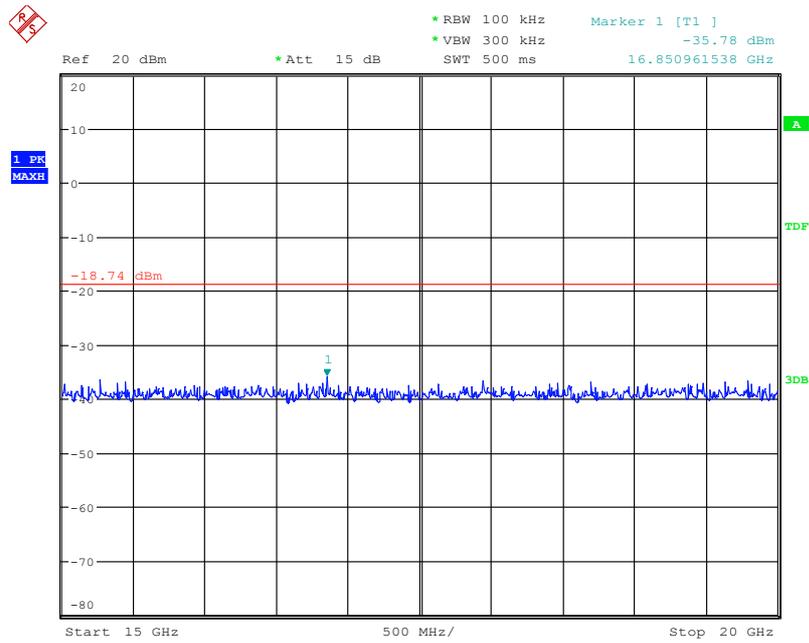
Date: 30.MAR.2013 18:28:30

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



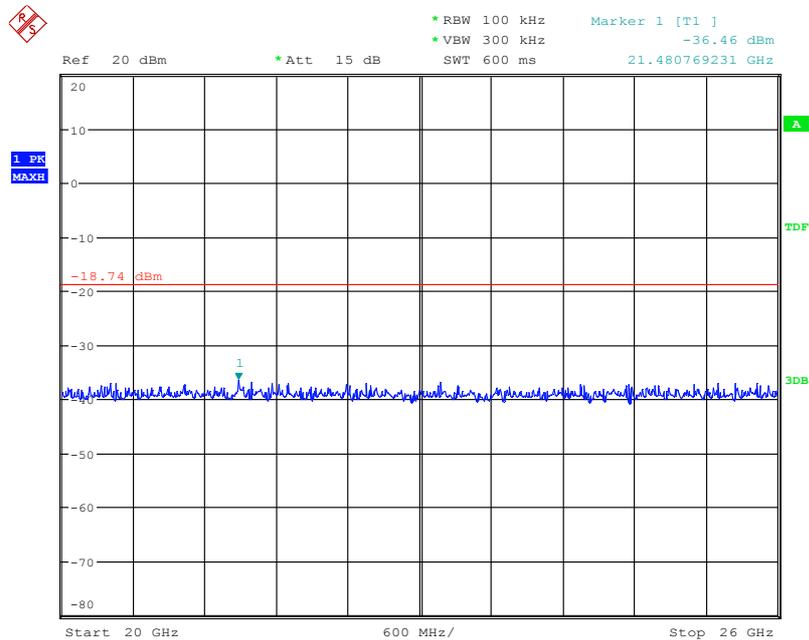
Date: 30.MAR.2013 18:28:36

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



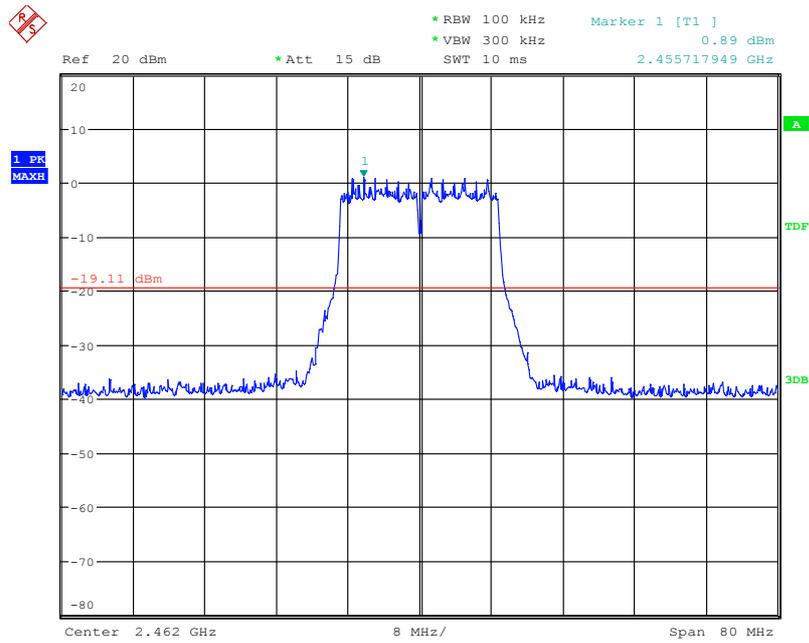
Date: 30.MAR.2013 18:28:41

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



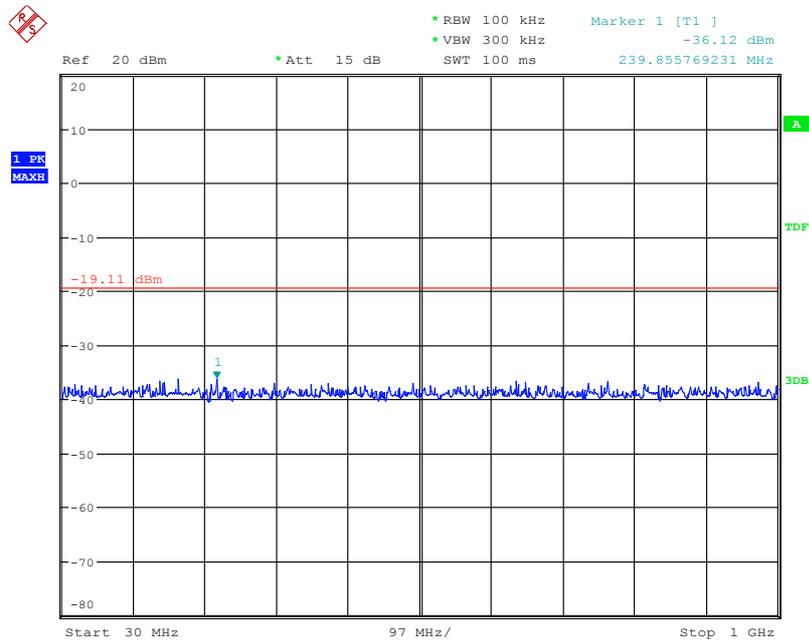
Date: 30.MAR.2013 18:28:47

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



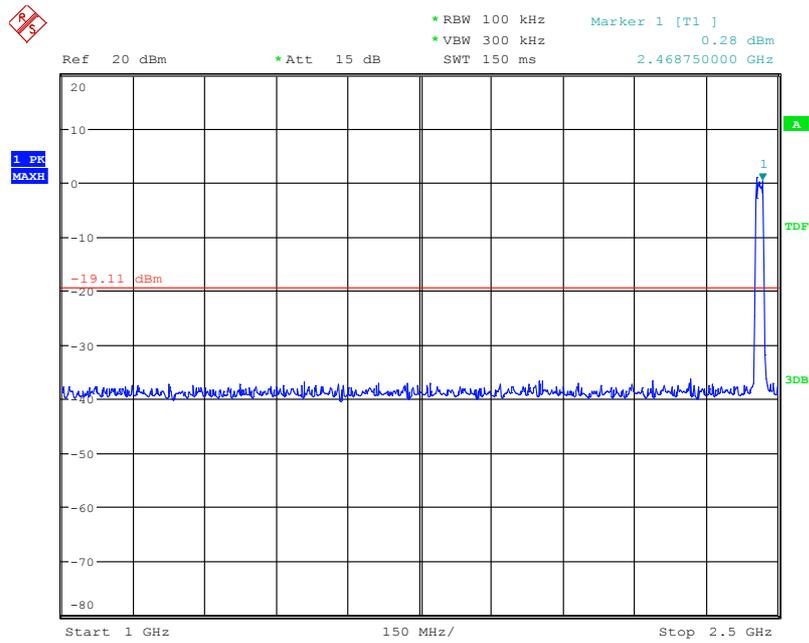
Date: 30.MAR.2013 18:29:04

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



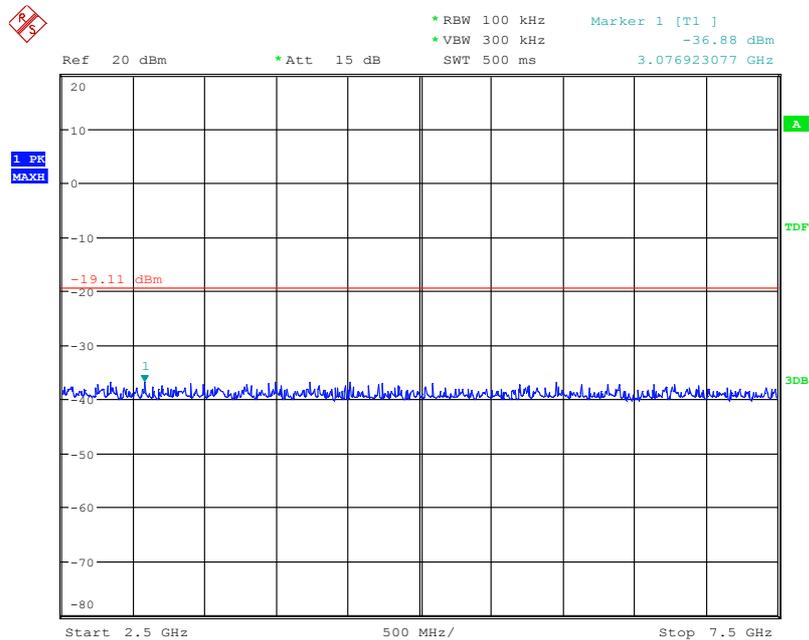
Date: 30.MAR.2013 18:29:11

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



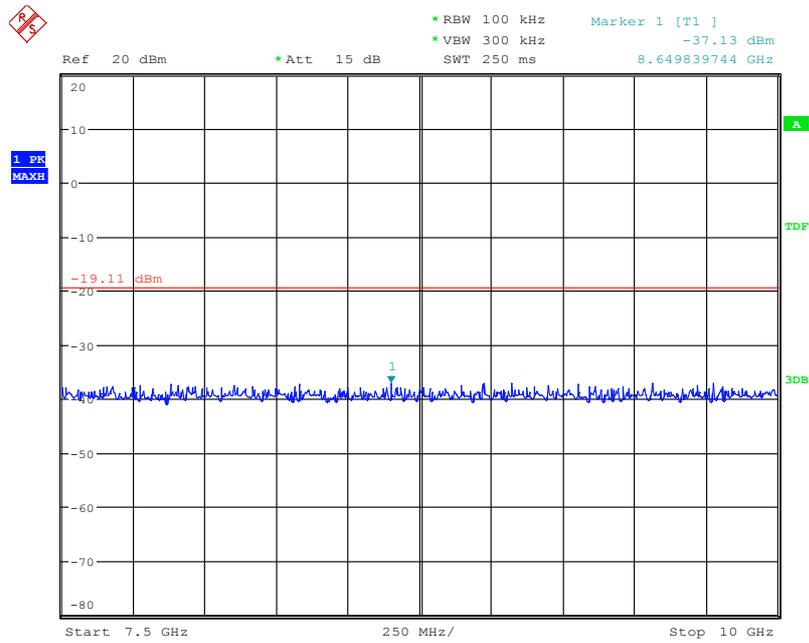
Date: 30.MAR.2013 18:29:18

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



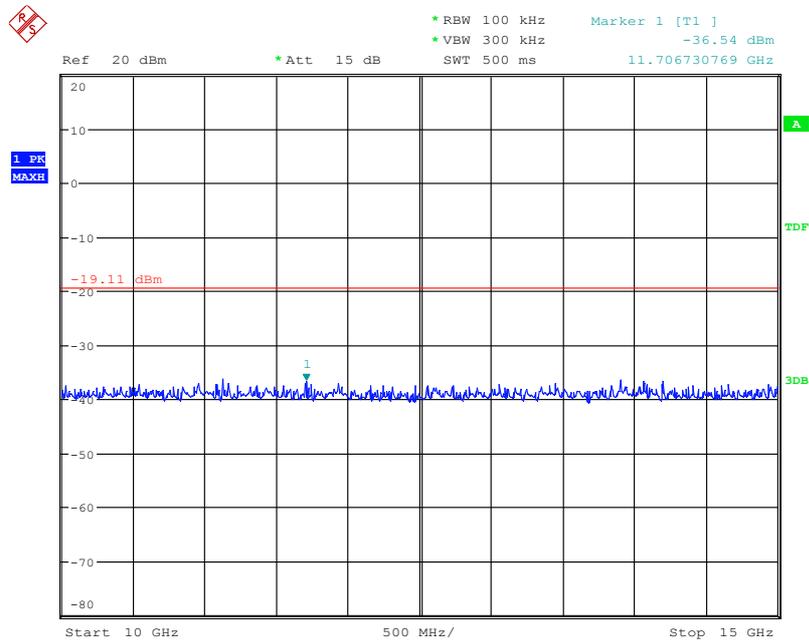
Date: 30.MAR.2013 18:29:25

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



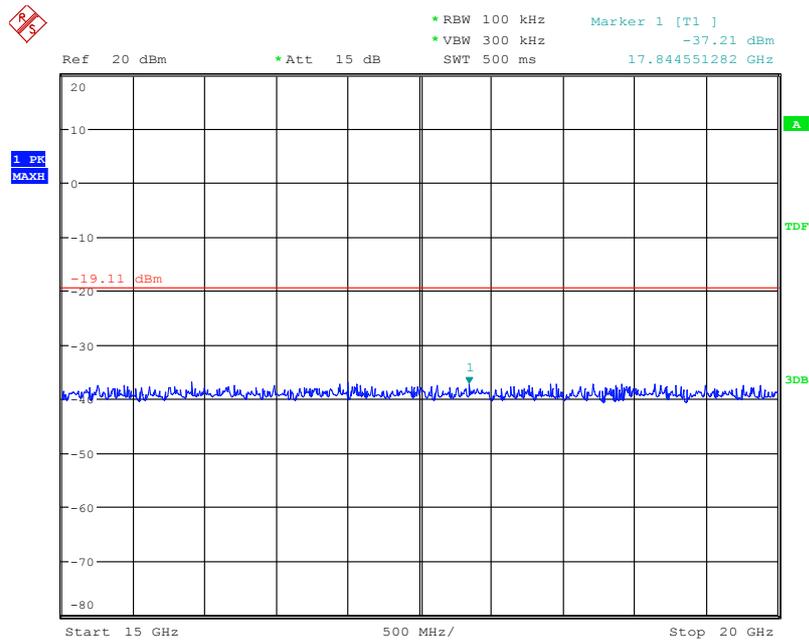
Date: 30.MAR.2013 18:29:32

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



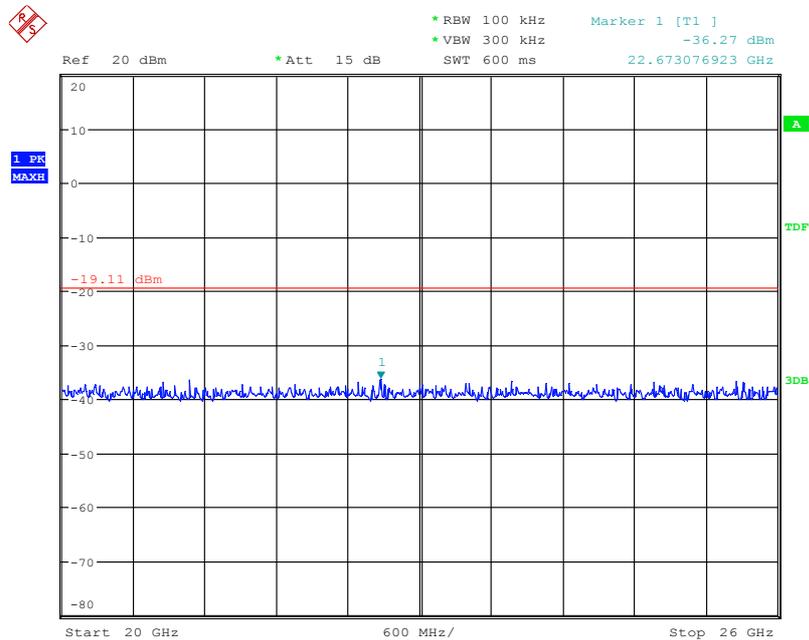
Date: 30.MAR.2013 18:29:38

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



Date: 30.MAR.2013 18:29:45

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



Date: 30.MAR.2013 18:29:52

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

### 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.88	P
	1	30 MHz ~1 GHz	Fig.89	P
		1 GHz ~ 3 GHz	Fig.90	P
		3 GHz ~ 18 GHz	Fig.91	P
	6	30 MHz ~1 GHz	Fig.92	P
		1 GHz ~ 3 GHz	Fig.93	P
		3 GHz ~ 18 GHz	Fig.94	P
	Power	2.45GHz ~2.5GHz	Fig.95	P
	11	30 MHz ~1 GHz	Fig.96	P
		1 GHz ~ 3 GHz	Fig.97	P
		3 GHz ~ 18 GHz	Fig.98	P
	802.11g	Power	2.38GHz ~2.45GHz	Fig.99
1		30 MHz ~1 GHz	Fig.100	P
		1 GHz ~ 3 GHz	Fig.101	P
		3 GHz ~ 18 GHz	Fig.102	P
6		30 MHz ~1 GHz	Fig.103	P
		1 GHz ~ 3 GHz	Fig.104	P
		3 GHz ~ 18 GHz	Fig.105	P
Power		2.45GHz~2.5GHz	Fig.106	P
11		30 MHz ~1 GHz	Fig.107	P
		1 GHz ~ 3 GHz	Fig.108	P
		3 GHz ~ 18 GHz	Fig.109	P
802.11n		Power	2.38GHz ~2.45GHz	Fig.110
	1	30 MHz ~1 GHz	Fig.111	P
		1 GHz ~ 3 GHz	Fig.112	P
		3 GHz ~ 18 GHz	Fig.113	P
	6	30 MHz ~1 GHz	Fig.114	P
		1 GHz ~ 3 GHz	Fig.115	P
		3 GHz ~ 18 GHz	Fig.116	P
	Power	2.45GHz~2.5GHz	Fig.117	P
	11	30 MHz ~1 GHz	Fig.118	P
		1 GHz ~ 3 GHz	Fig.119	P
		3 GHz ~ 18 GHz	Fig.120	P
	/	All channels	18 GHz~ 26 GHz	Fig.121

**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
17500.500	43.8	-25.3	42.8	26.327	HORIZONTAL
17975.250	43.7	-25.2	42.3	26.668	VERTICAL
17514.000	43.6	-25.3	42.8	26.127	HORIZONTAL
17999.250	43.6	-24.7	42.3	26.054	HORIZONTAL
17981.250	43.6	-25.2	42.3	26.568	HORIZONTAL
17542.500	43.6	-25.3	42.9	25.967	HORIZONTAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	$P_{Mea}$ (dBuV/m)	Polarization
17994.000	43.7	-24.7	42.3	26.154	HORIZONTAL
17514.750	43.6	-25.3	42.8	26.127	VERTICAL
17489.250	43.6	-25.3	43.0	25.857	HORIZONTAL
17511.000	43.6	-25.3	42.8	26.127	HORIZONTAL
17493.000	43.6	-25.3	43.0	25.857	HORIZONTAL
17475.750	43.5	-25.3	43.0	25.757	HORIZONTAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	$P_{Mea}$ (dBuV/m)	Polarization
17992.500	43.7	-24.7	42.3	26.154	VERTICAL
17517.000	43.7	-25.3	42.8	26.227	VERTICAL
17499.750	43.6	-25.3	43.0	25.857	HORIZONTAL
17996.250	43.6	-24.7	42.3	26.054	VERTICAL
17516.250	43.6	-25.3	42.8	26.127	VERTICAL
17485.500	43.6	-25.3	43.0	25.857	VERTICAL

**802.11g**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17496.750	43.8	-25.3	43.0	26.057	HORIZONTAL
17517.000	43.7	-25.3	42.8	26.227	VERTICAL
17488.500	43.7	-25.3	43.0	25.957	HORIZONTAL
17511.000	43.7	-25.3	42.8	26.227	VERTICAL
17484.000	43.6	-25.3	43.0	25.857	HORIZONTAL
17514.750	43.6	-25.3	42.8	26.127	HORIZONTAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17471.250	43.7	-25.3	42.6	26.397	VERTICAL
17503.500	43.7	-25.3	42.8	26.227	VERTICAL
17520.000	43.6	-25.3	42.8	26.127	VERTICAL
17964.000	43.6	-25.2	42.7	26.128	HORIZONTAL
17539.500	43.6	-25.3	42.9	25.967	HORIZONTAL
17491.500	43.6	-25.3	43.0	25.857	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17494.500	43.8	-25.3	43.0	26.057	HORIZONTAL
17490.000	43.7	-25.3	43.0	25.957	HORIZONTAL
17481.750	43.6	-25.3	43.0	25.857	HORIZONTAL
17502.750	43.6	-25.3	42.8	26.127	VERTICAL
17499.750	43.6	-25.3	43.0	25.857	HORIZONTAL
17997.000	43.6	-24.7	42.3	26.054	VERTICAL

**802.11n-HT20**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17993.250	43.7	-24.7	42.3	26.154	HORIZONTAL
17518.500	43.6	-25.3	42.8	26.127	VERTICAL
17514.000	43.6	-25.3	42.8	26.127	HORIZONTAL
17508.000	43.6	-25.3	42.8	26.127	HORIZONTAL
17487.750	43.6	-25.3	43.0	25.857	VERTICAL
17527.500	43.5	-25.3	42.9	25.867	HORIZONTAL

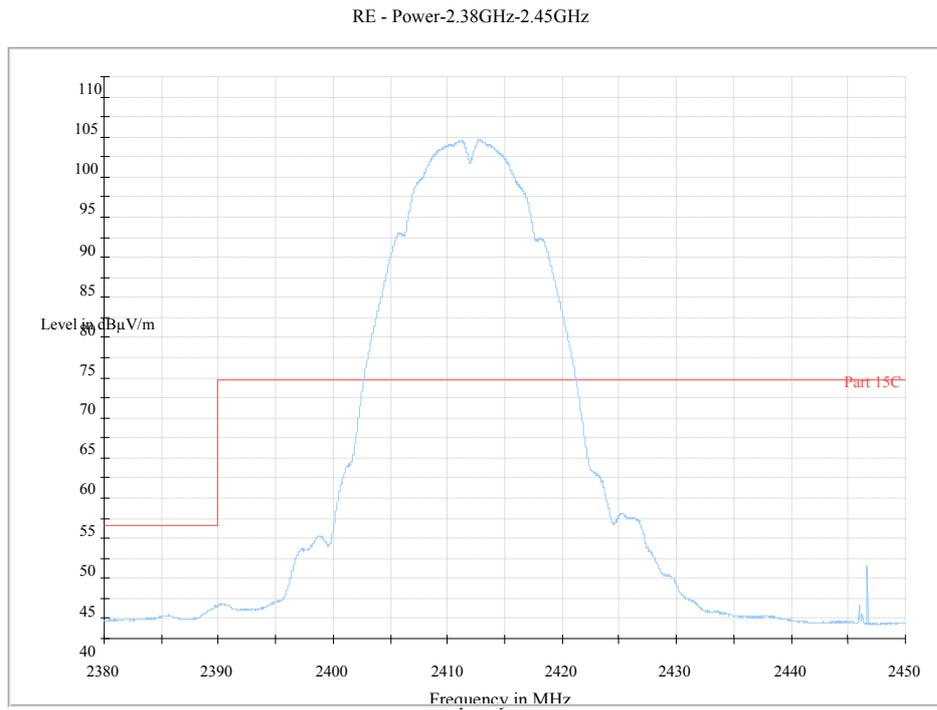
Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17497.500	43.7	-25.3	43.0	25.957	VERTICAL
17476.500	43.6	-25.3	43.0	25.857	VERTICAL
17998.500	43.6	-24.7	42.3	26.054	HORIZONTAL
17514.750	43.6	-25.3	42.8	26.127	VERTICAL
17529.750	43.6	-25.3	42.9	25.967	HORIZONTAL
17979.750	43.6	-25.2	42.3	26.568	VERTICAL

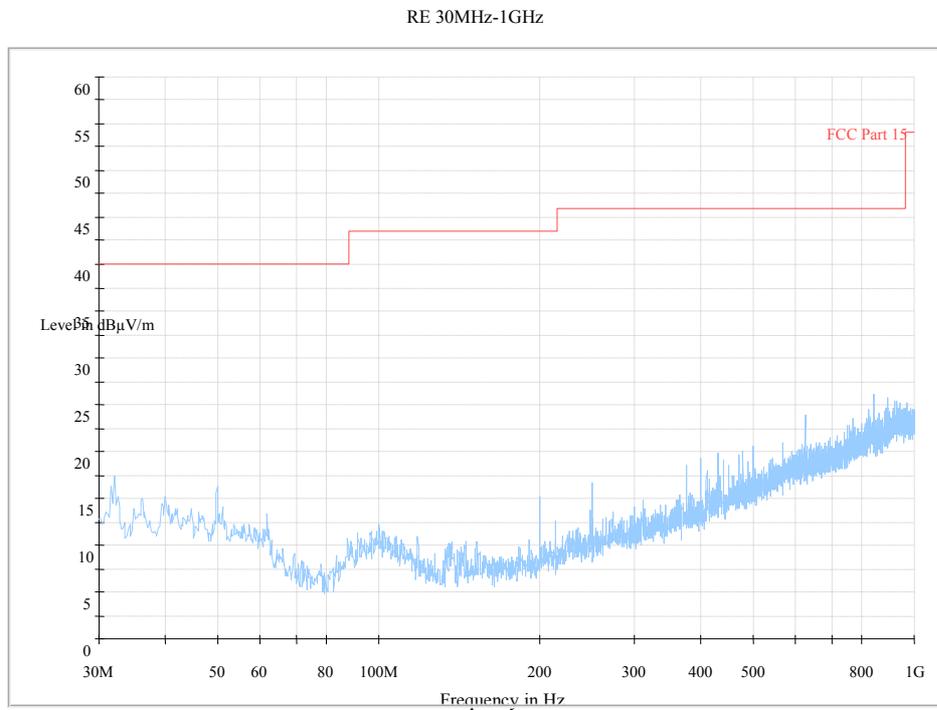
Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P <sub>Mea</sub> (dBuV/m)	Polarization
17499.750	43.6	-25.3	43.0	25.857	HORIZONTAL
17997.000	43.6	-24.7	42.3	26.054	HORIZONTAL
17523.750	43.6	-25.3	42.8	26.127	VERTICAL
17489.250	43.6	-25.3	43.0	25.857	HORIZONTAL
17516.250	43.6	-25.3	42.8	26.127	VERTICAL
17500.500	43.6	-25.3	42.8	26.127	VERTICAL

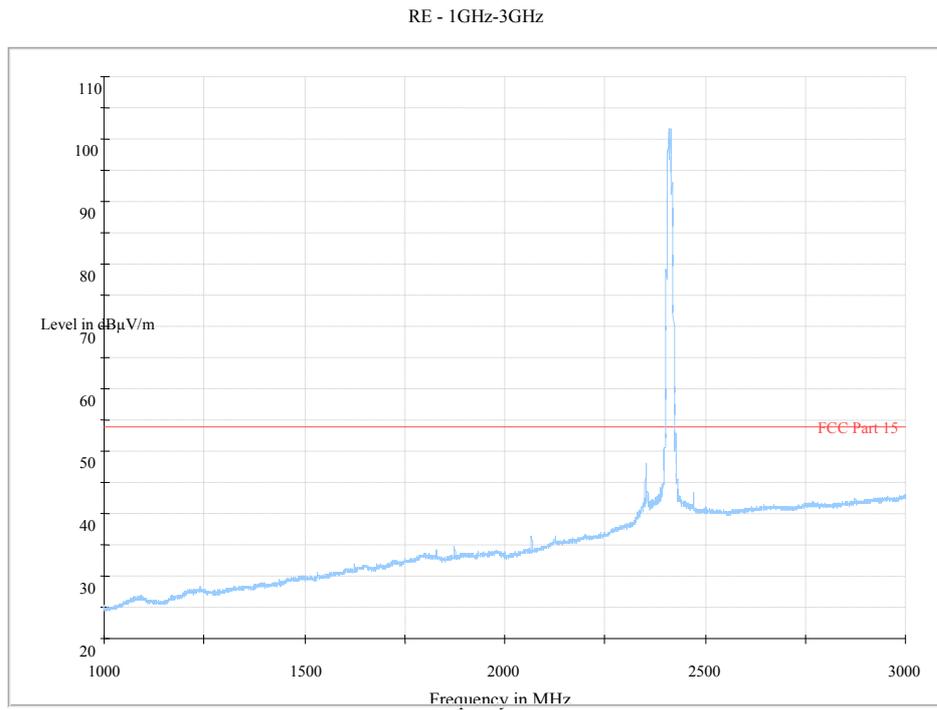
**Test graphs as below:**



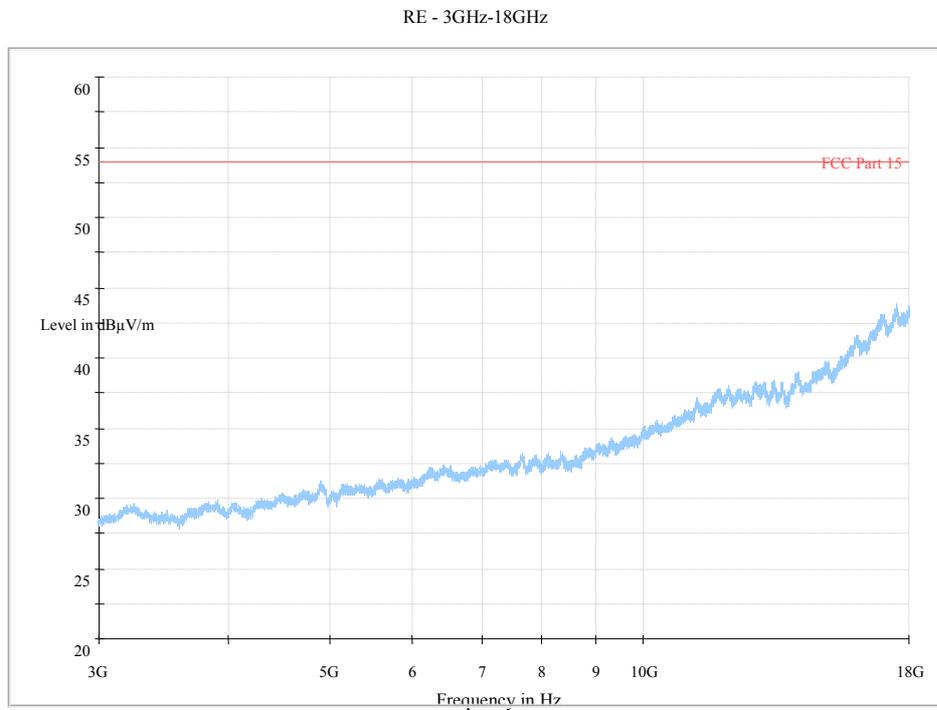
**Fig. 88 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz - 2.45GHz**



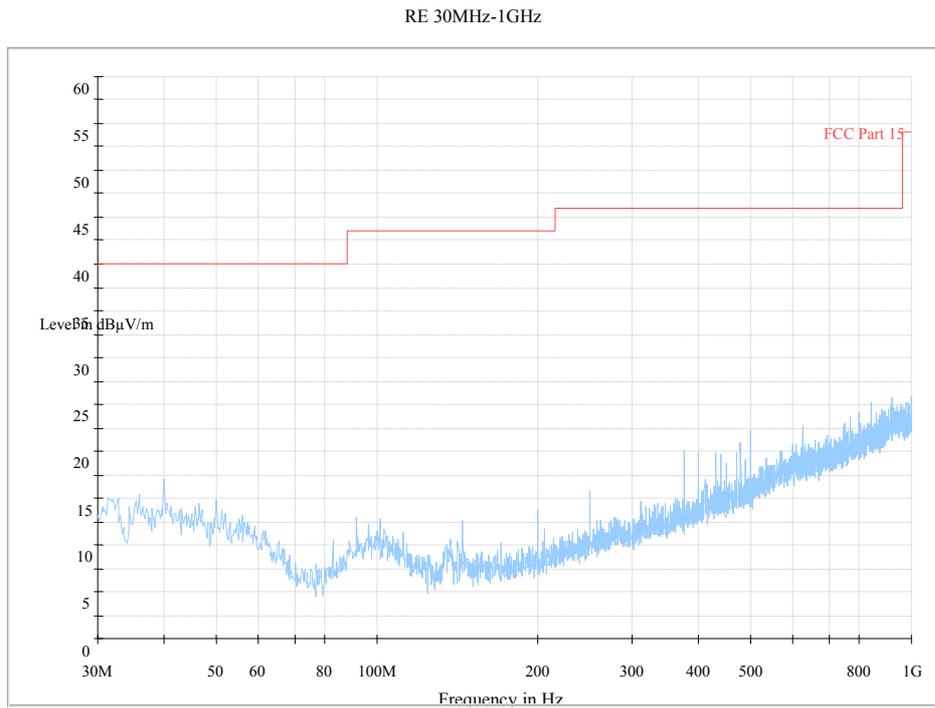
**Fig. 89 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)**



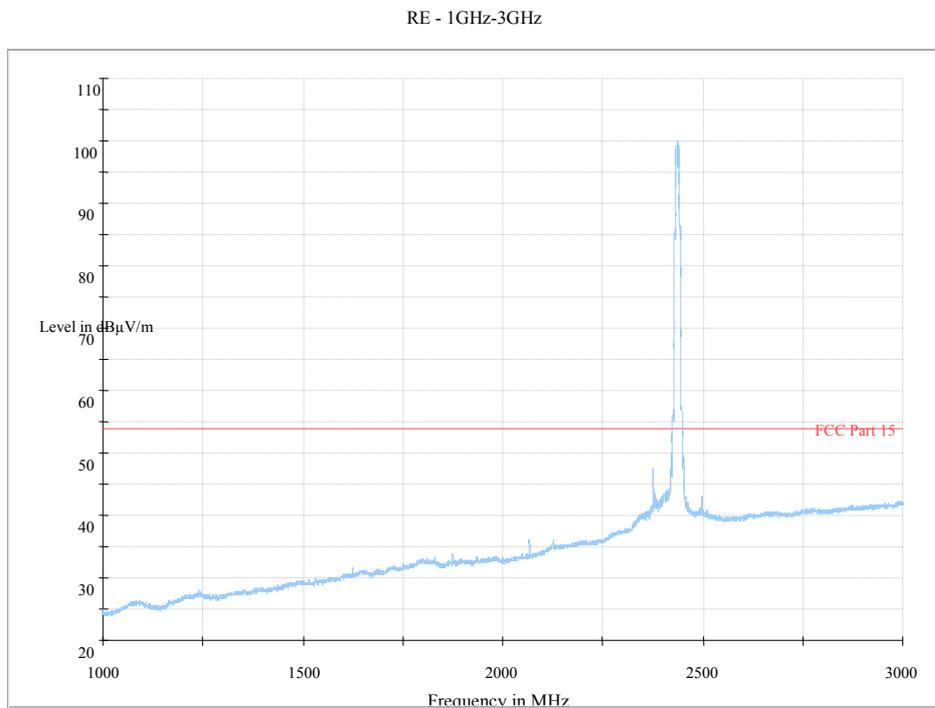
**Fig. 90 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-3 GHz)**



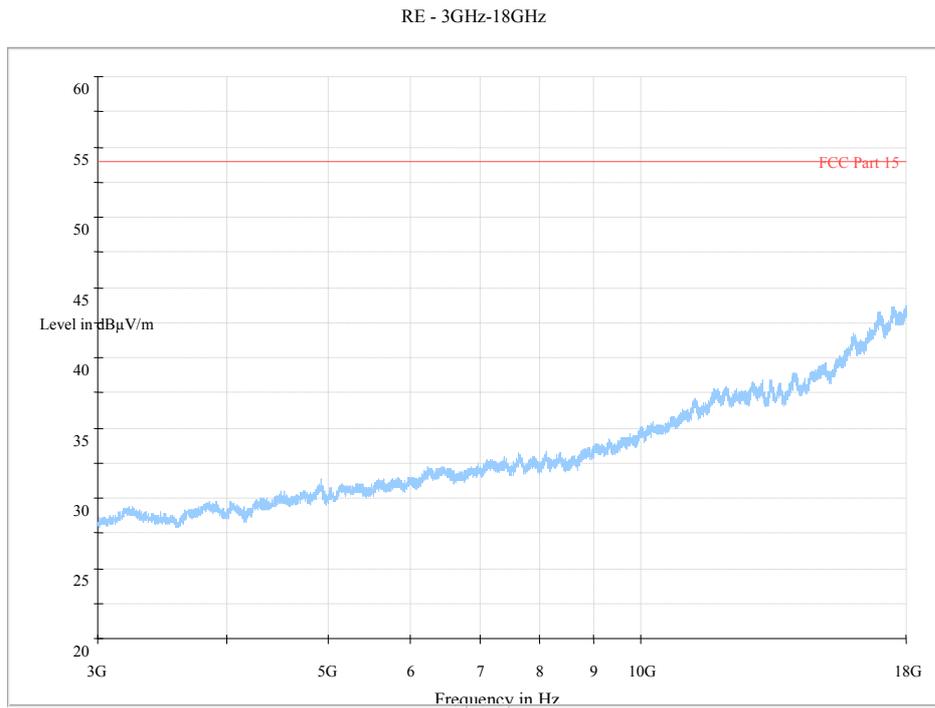
**Fig. 91 Radiated Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)**



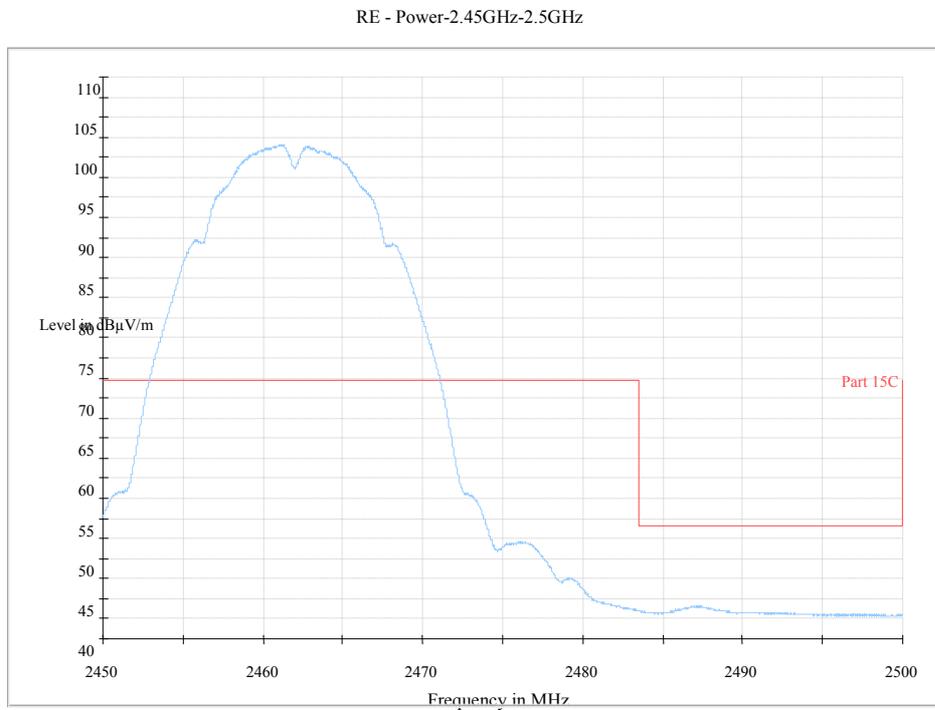
**Fig. 92 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)**



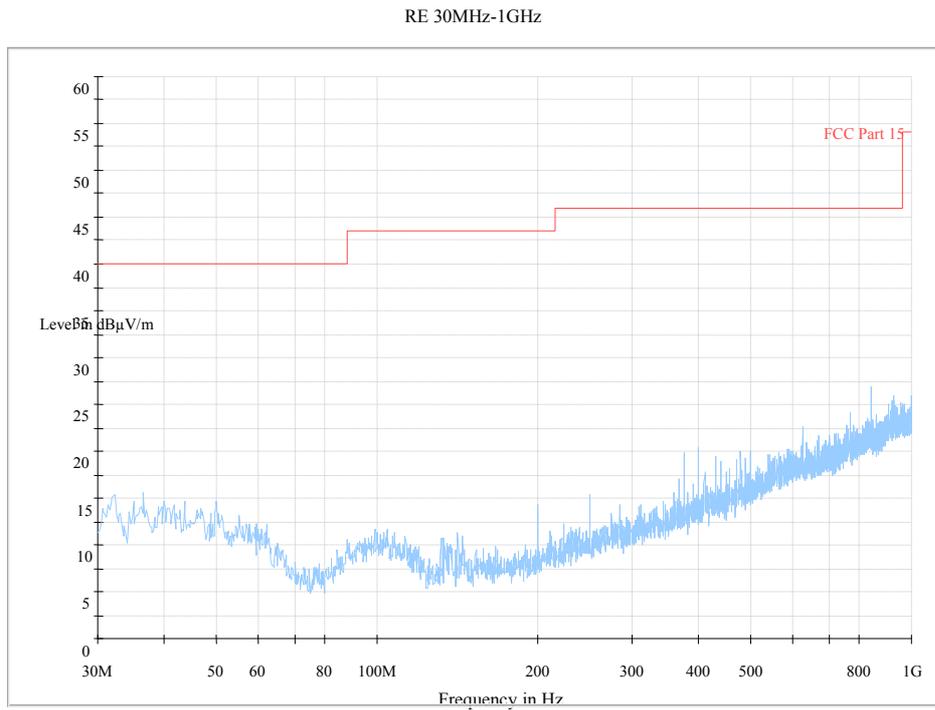
**Fig. 93 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-3 GHz)**



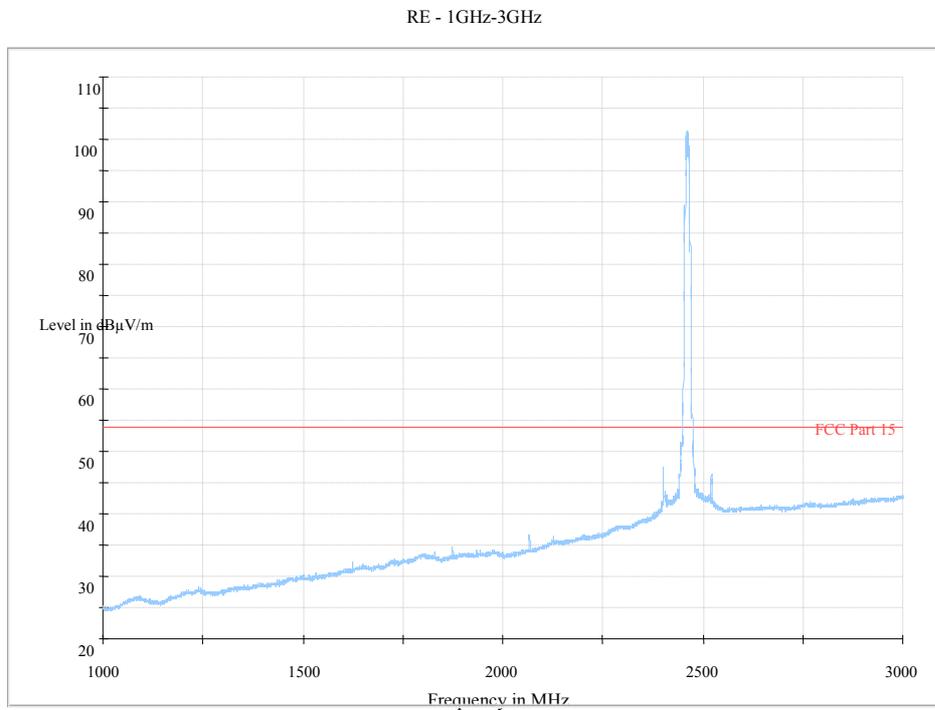
**Fig. 94 Radiated Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)**



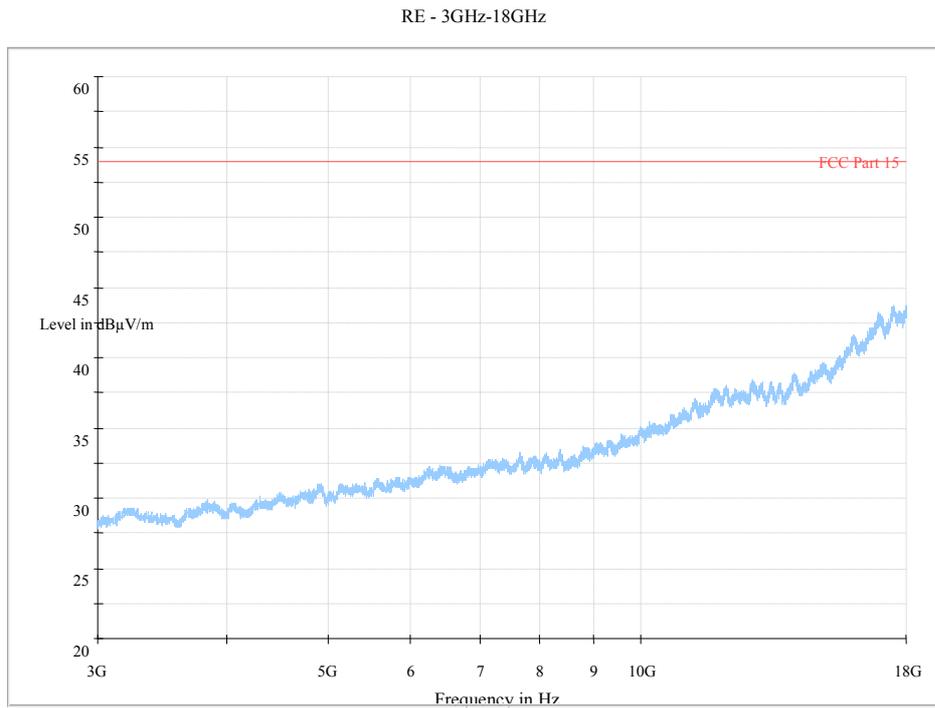
**Fig. 95 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.5GHz**



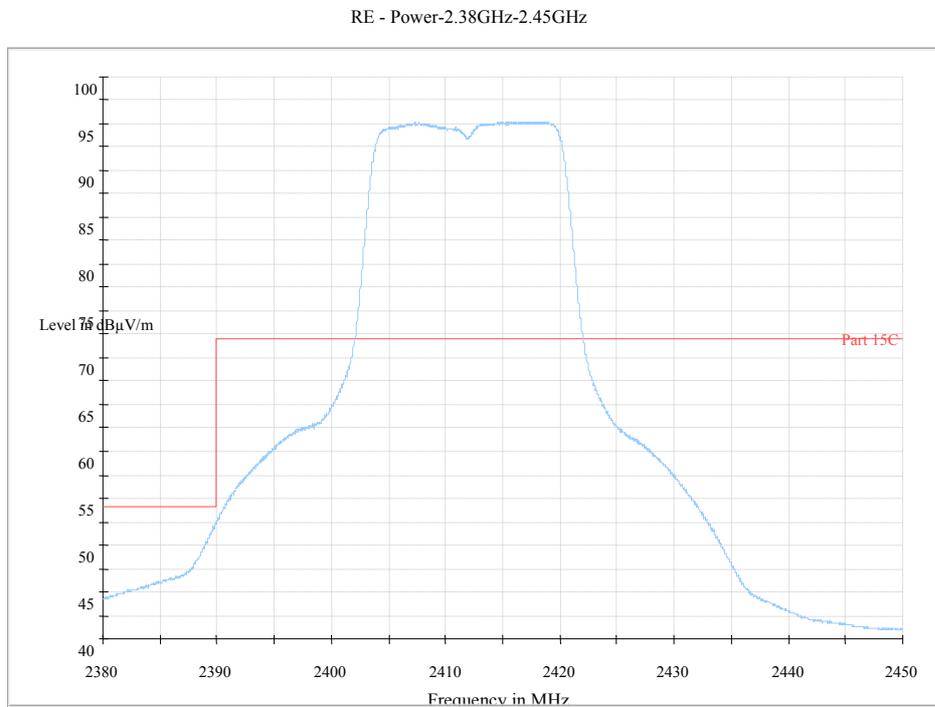
**Fig. 96 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)**



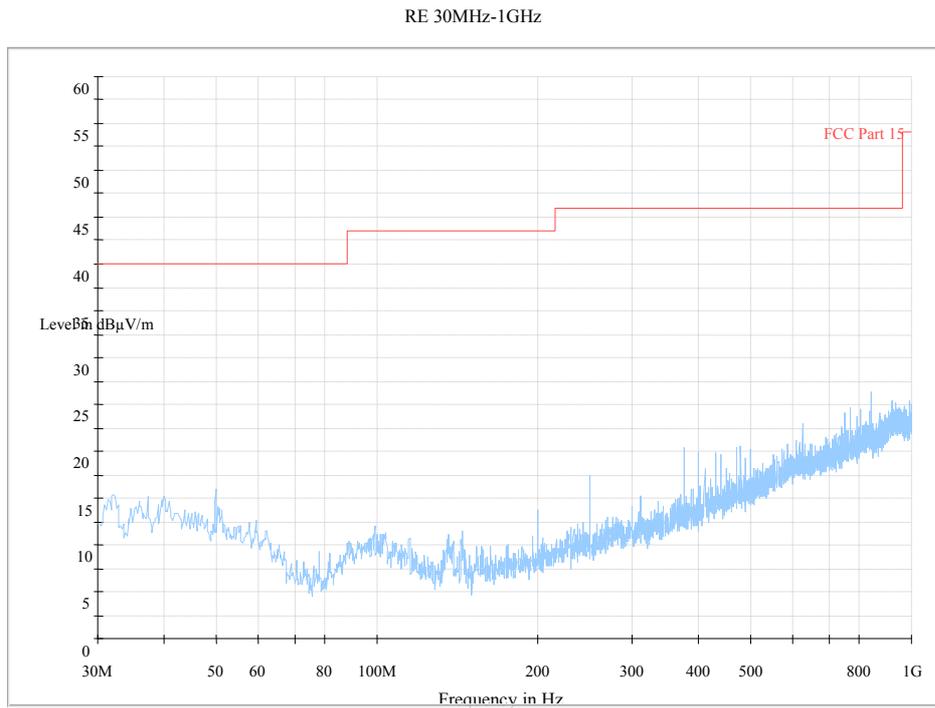
**Fig. 97 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-3 GHz)**



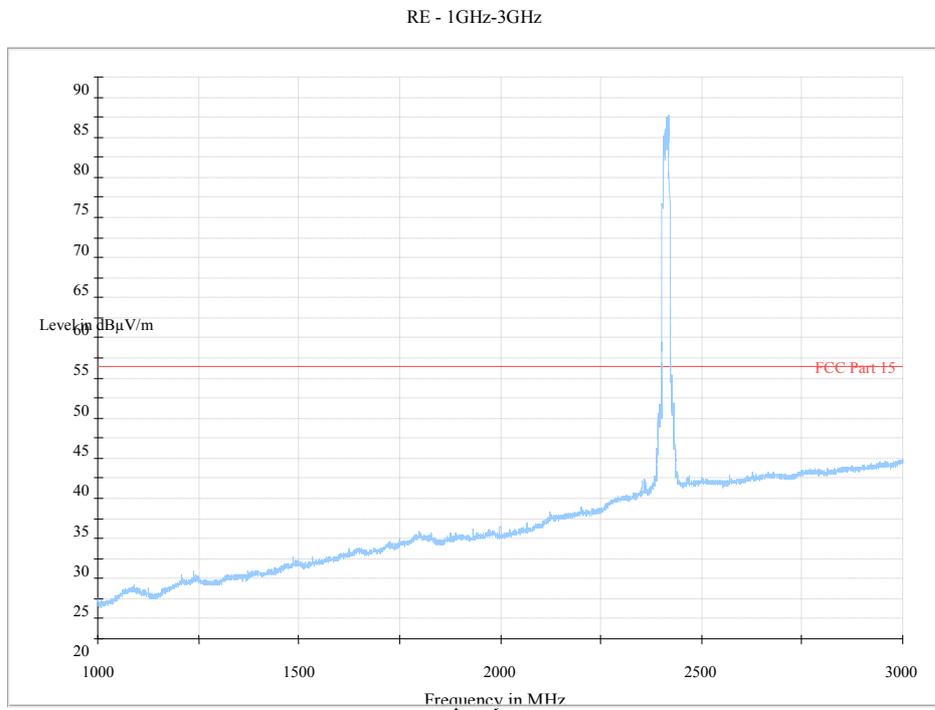
**Fig. 98 Radiated Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)**



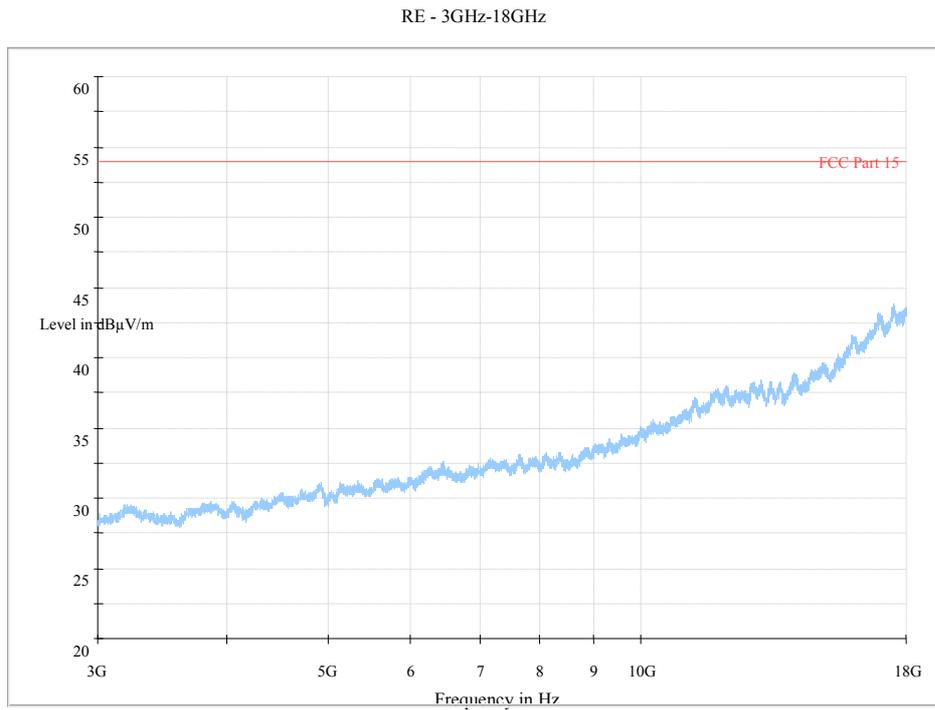
**Fig. 99 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz**



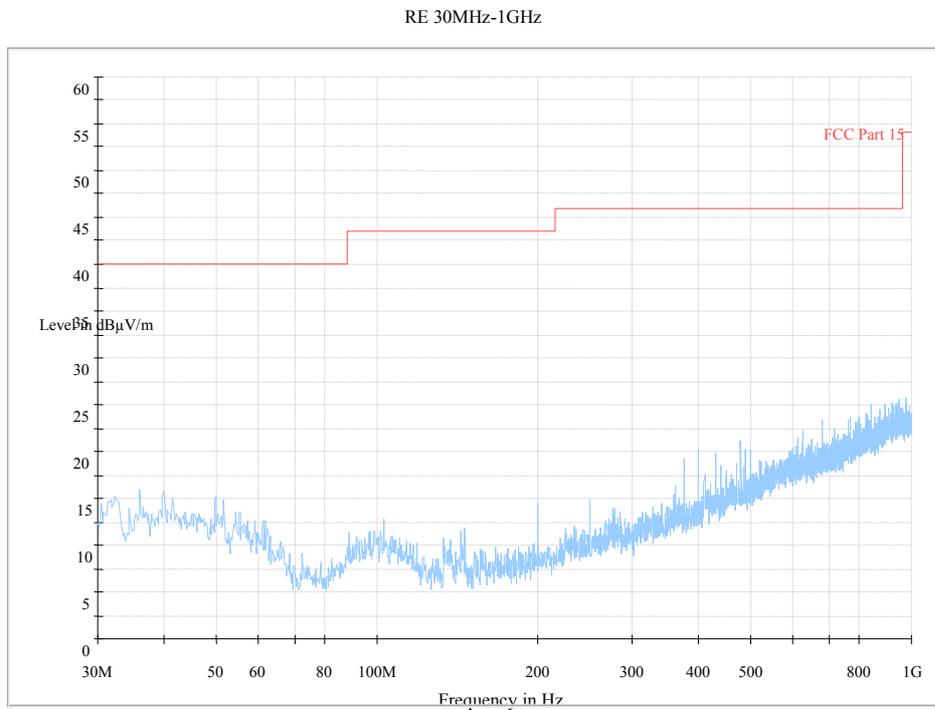
**Fig. 100 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)**



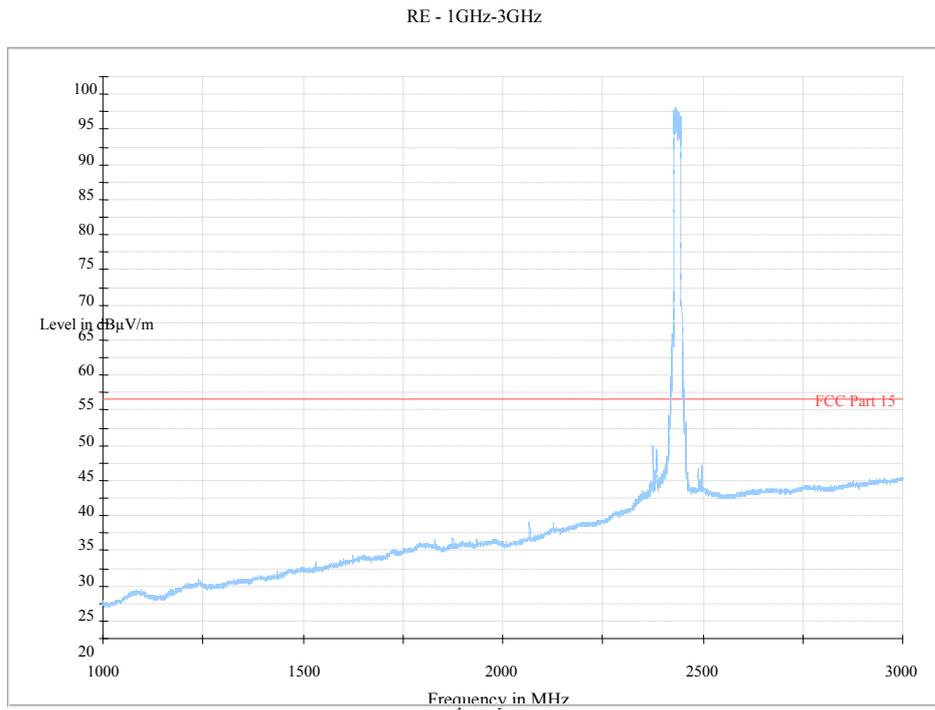
**Fig. 101 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-3 GHz)**



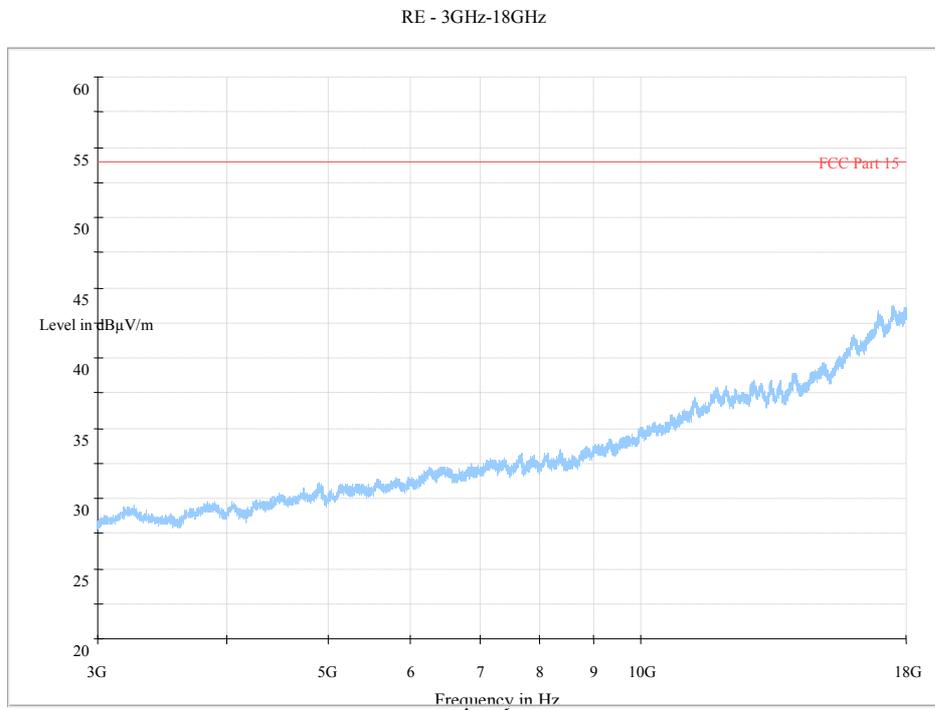
**Fig. 102 Radiated Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)**



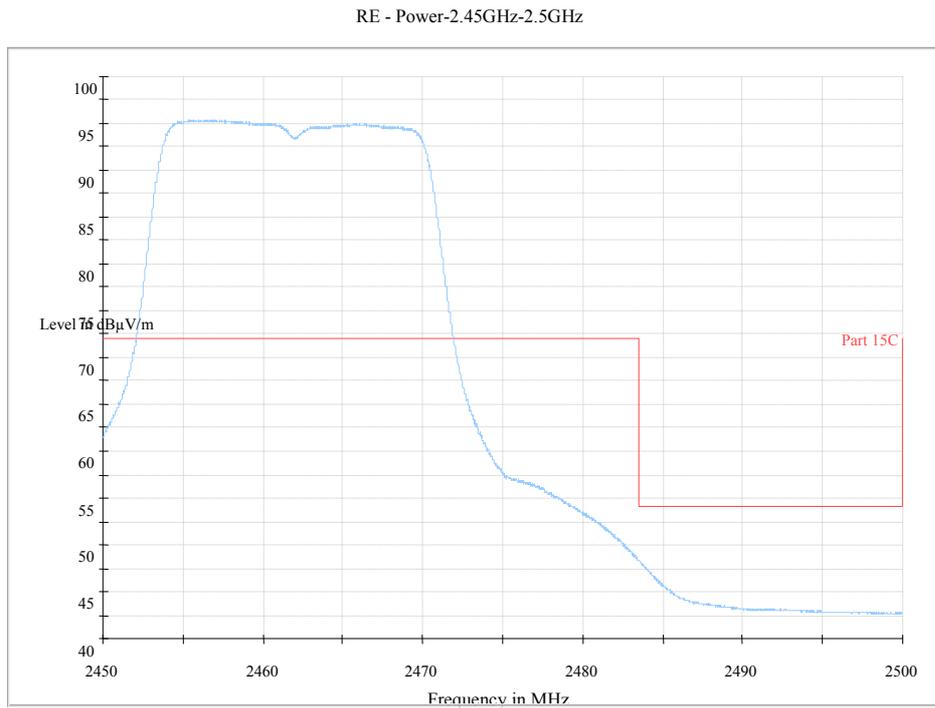
**Fig. 103 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)**



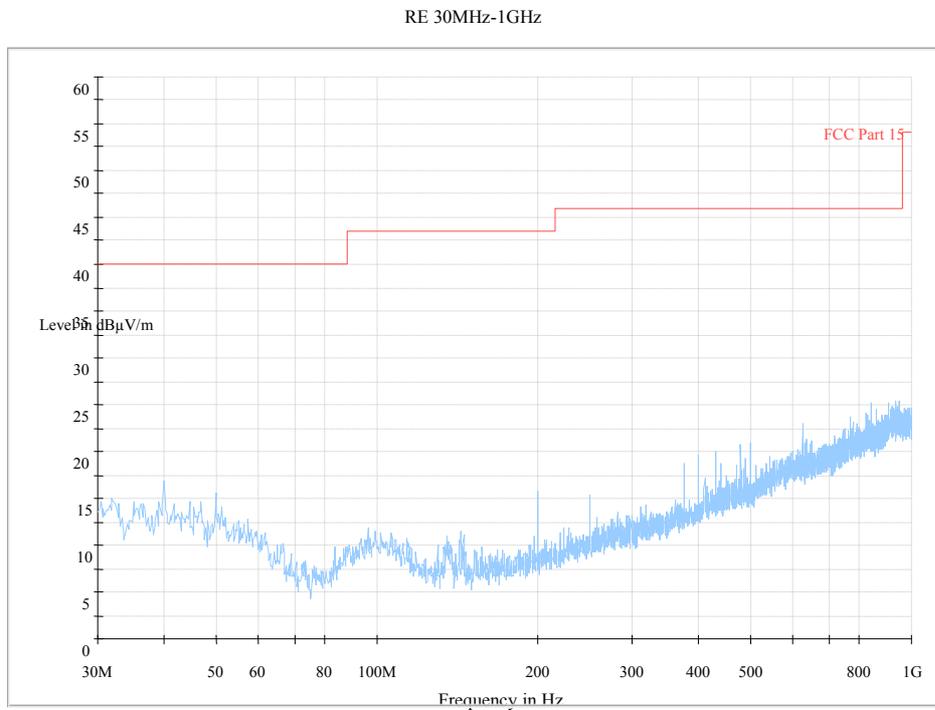
**Fig. 104 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-3 GHz)**



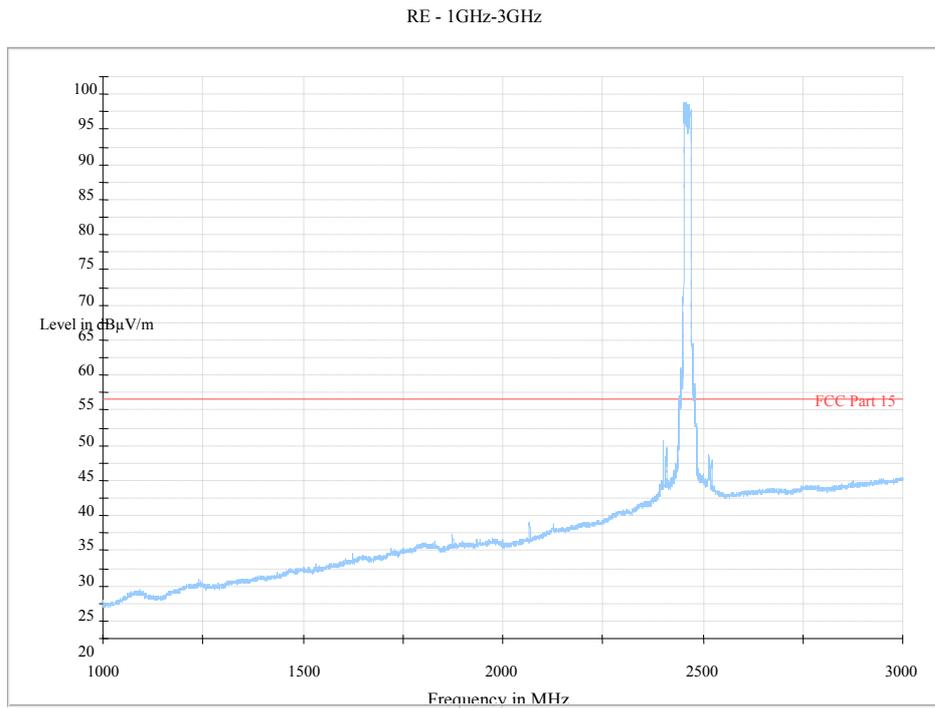
**Fig. 105 Radiated Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)**



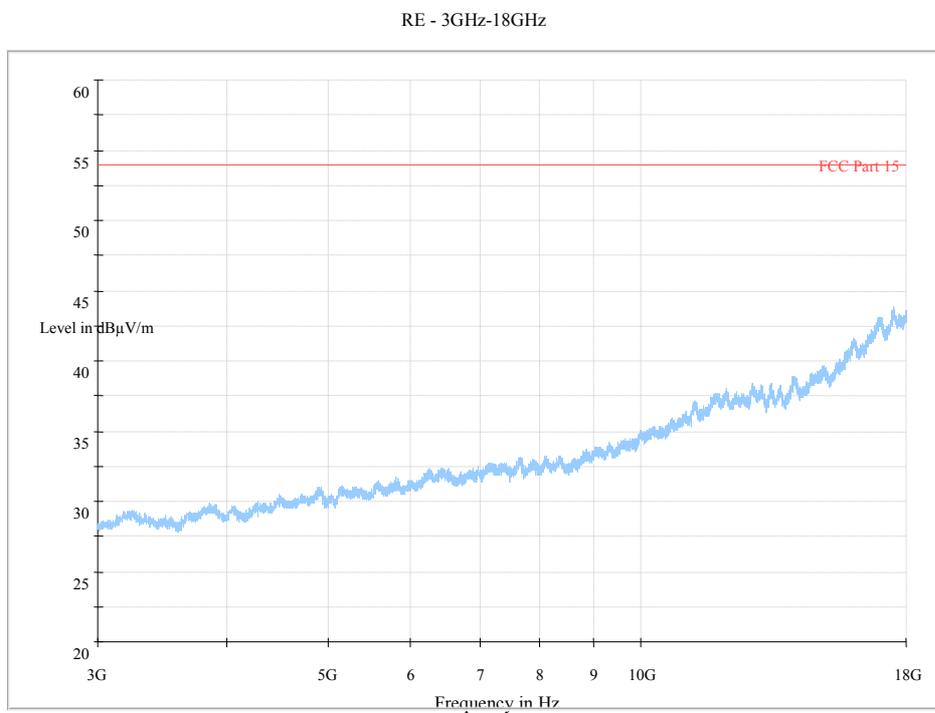
**Fig. 106 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.5GHz**



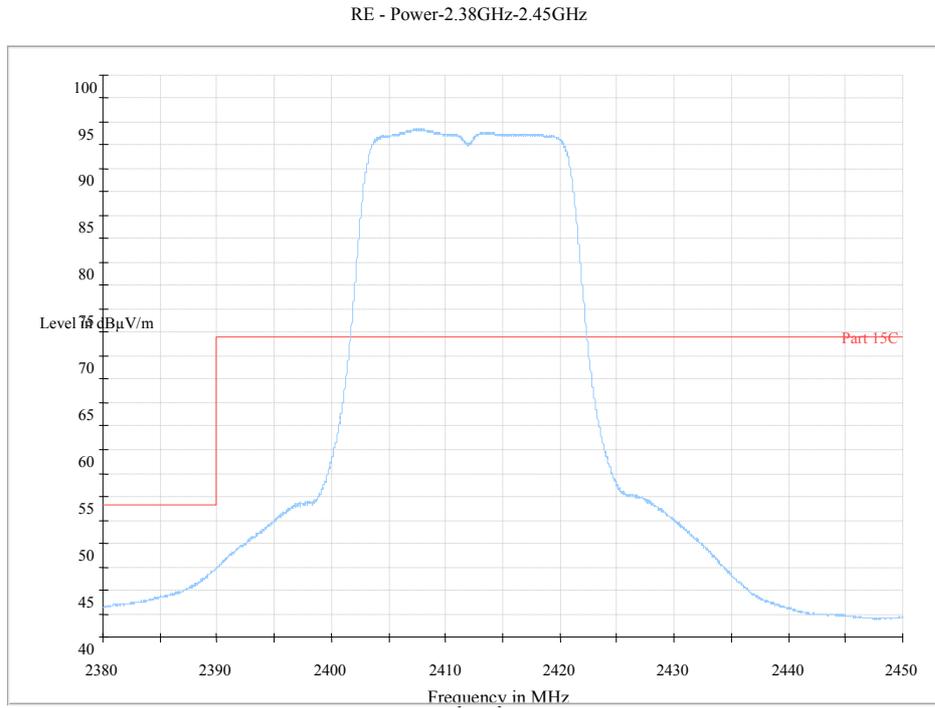
**Fig. 107 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)**



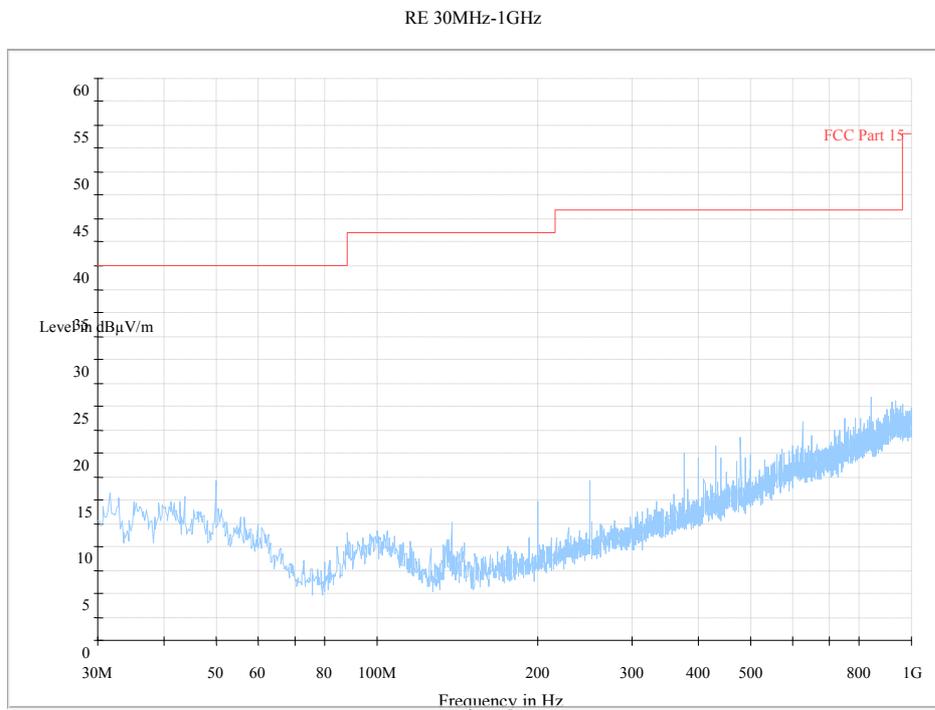
**Fig. 108 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-3 GHz)**



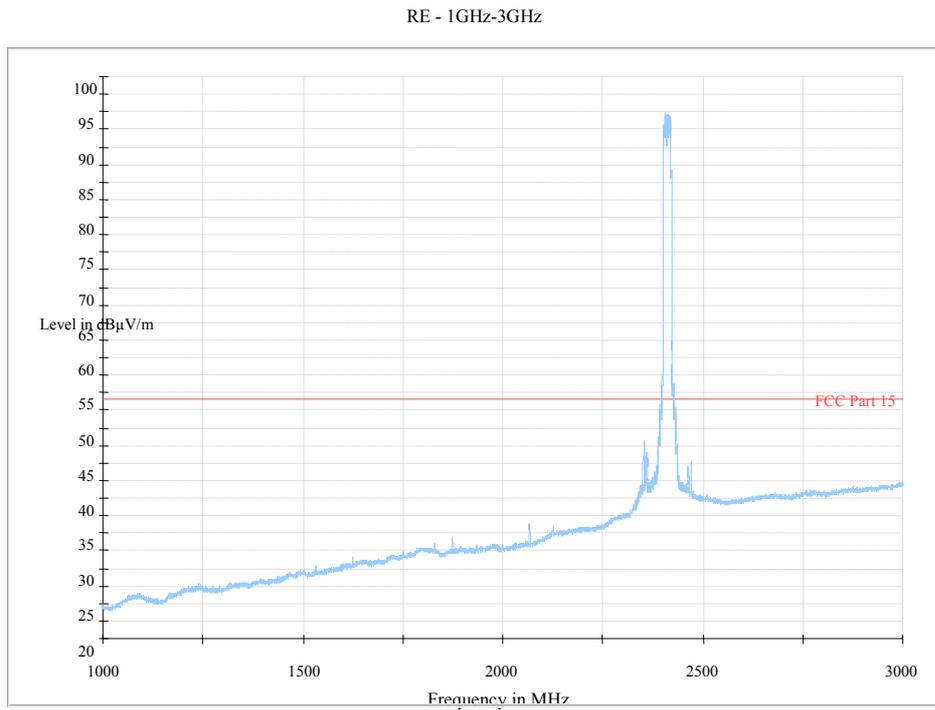
**Fig. 109 Radiated Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)**



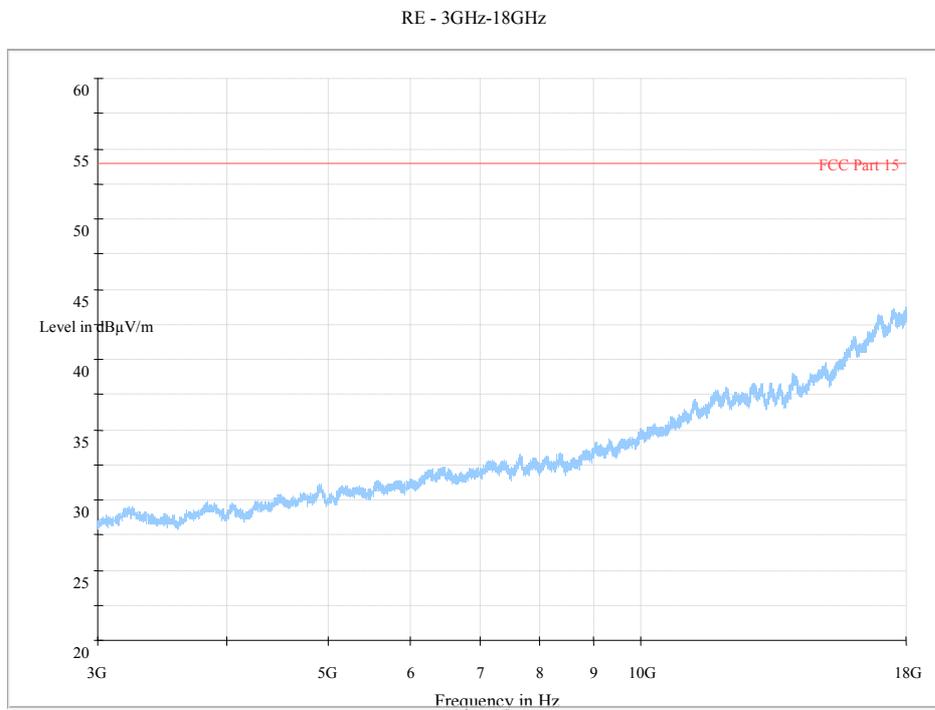
**Fig. 110 Radiated Spurious Emission (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz**



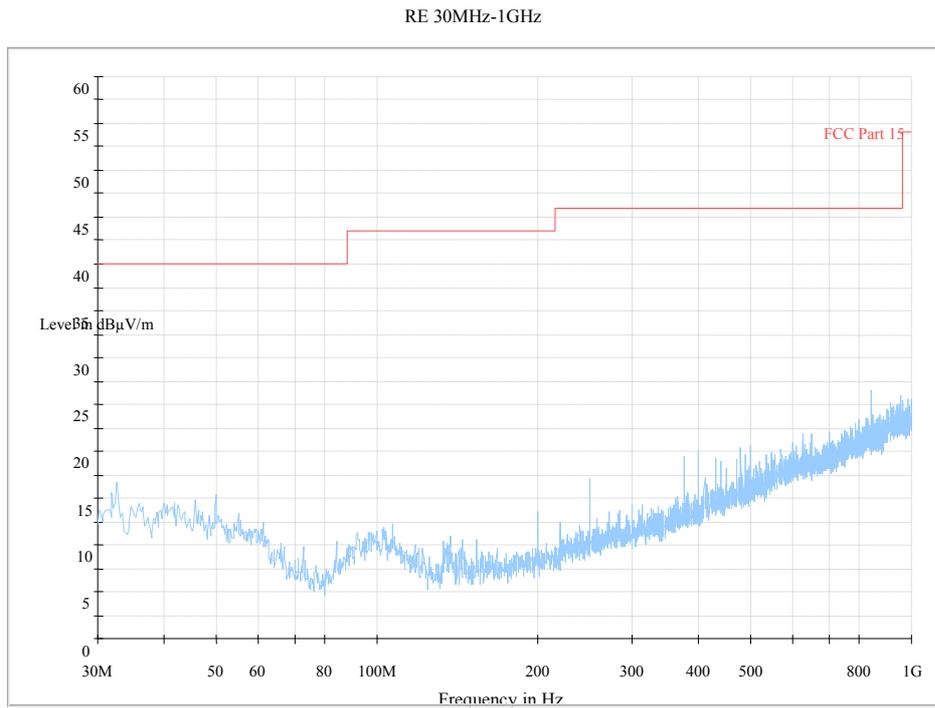
**Fig. 111 Radiated Spurious Emission (802.11n-HT20, Ch1, 30 MHz-1 GHz)**



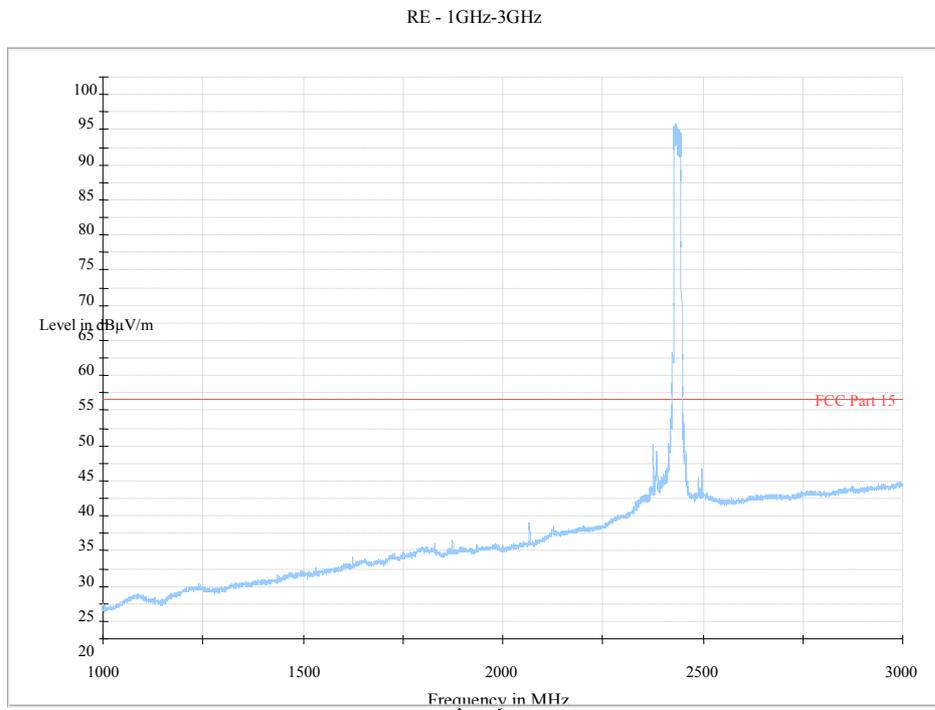
**Fig. 112 Radiated Spurious Emission (802.11n-HT20, Ch1, 1 GHz-3 GHz)**



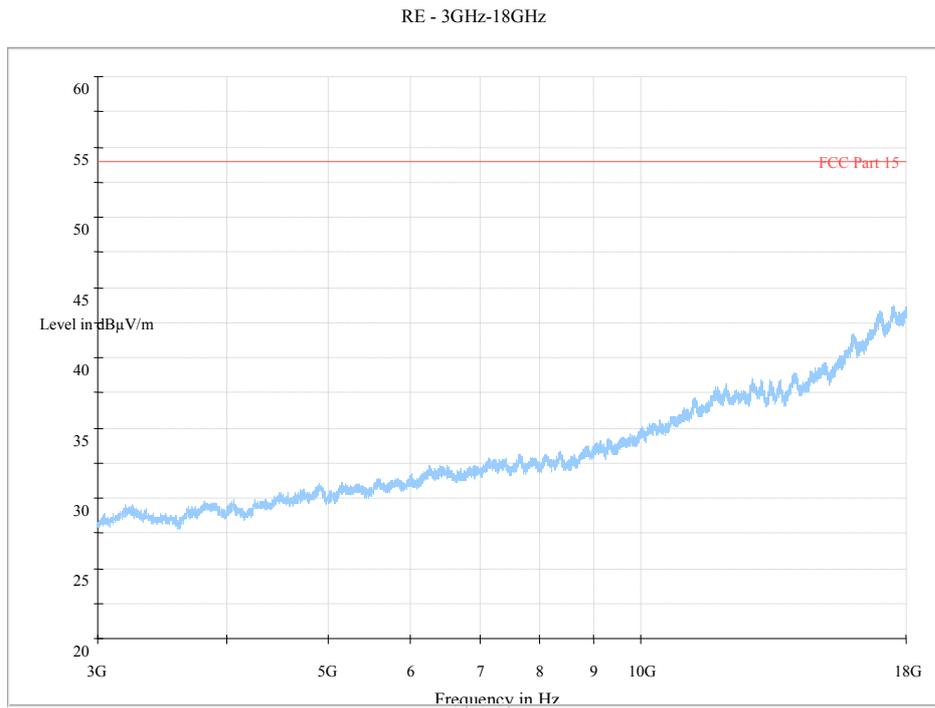
**Fig. 113 Radiated Spurious Emission (802.11n-HT20, Ch1, 3 GHz-18 GHz)**



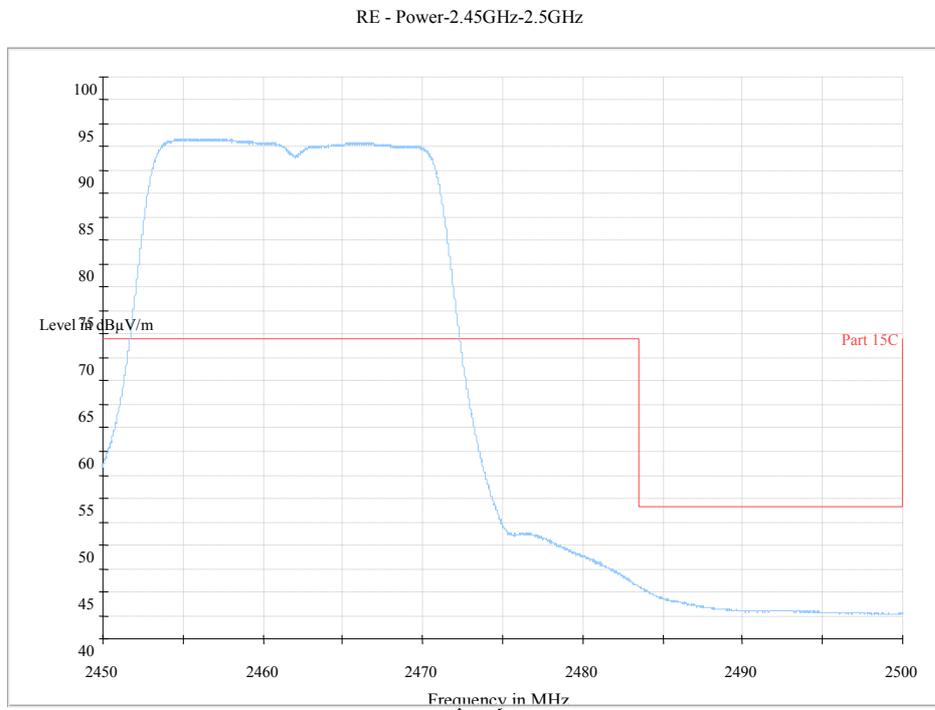
**Fig. 114 Radiated Spurious Emission (802.11n-HT20, Ch6, 30 MHz-1 GHz)**



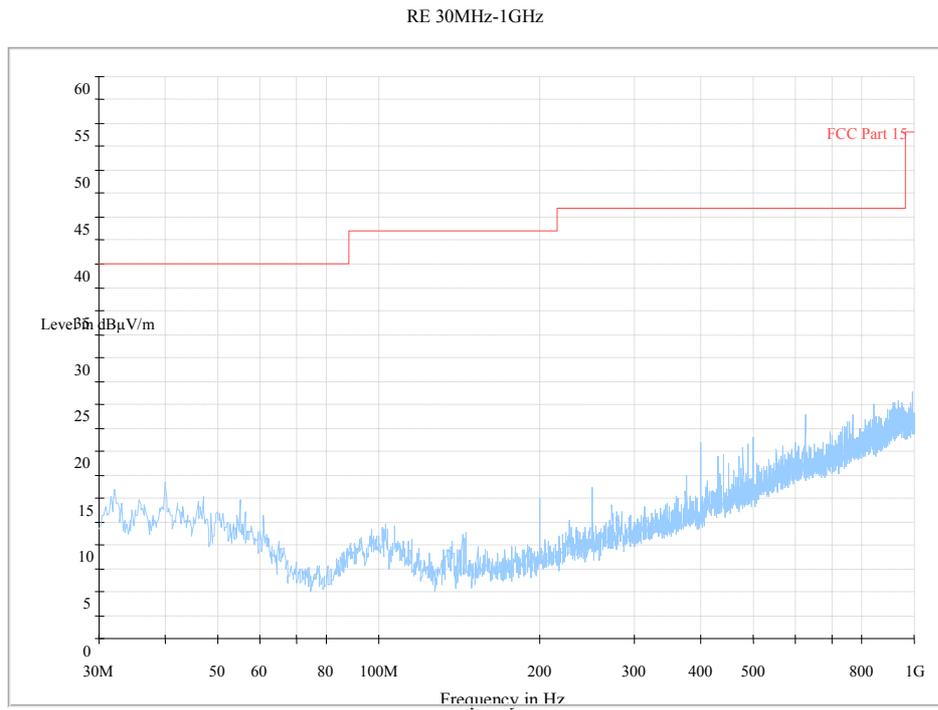
**Fig. 115 Radiated Spurious Emission (802.11n-HT20, Ch6, 1 GHz-3 GHz)**



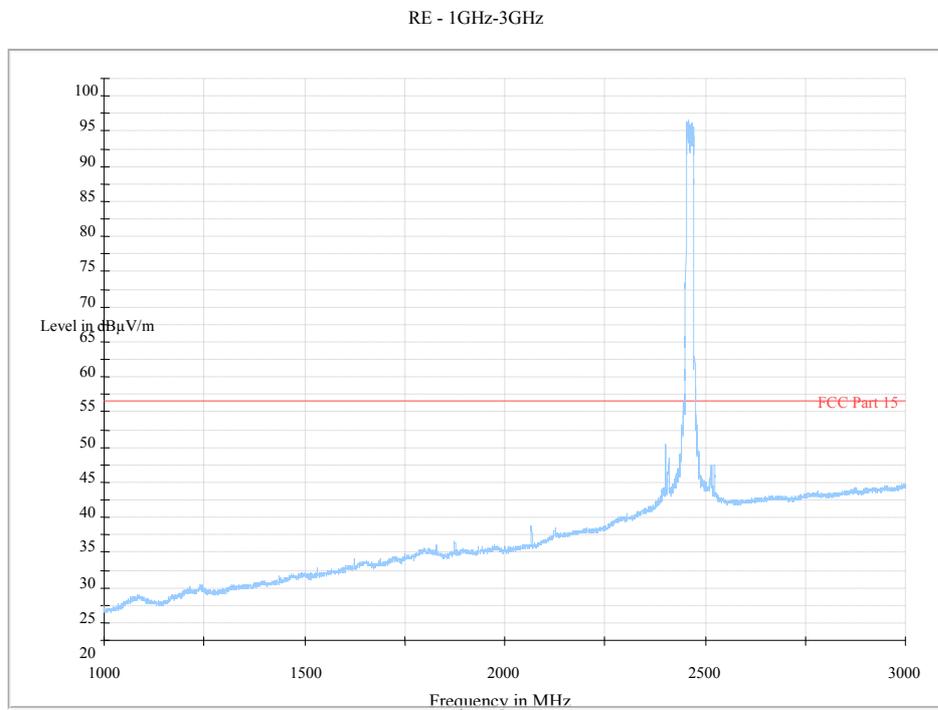
**Fig. 116 Radiated Spurious Emission (802.11n-HT20, Ch6, 3 GHz-18 GHz)**



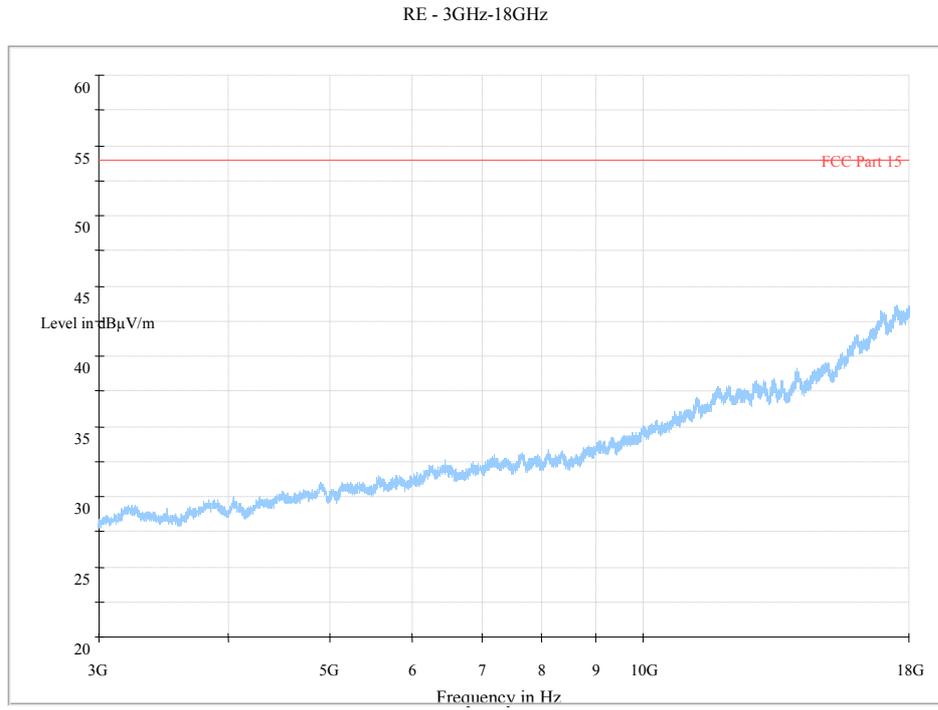
**Fig. 117 Radiated Spurious Emission (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.5GHz**



**Fig. 118 Radiated Spurious Emission (802.11n-HT20, Ch11, 30 MHz-1 GHz)**



**Fig. 119 Radiated Spurious Emission (802.11n-HT20, Ch11, 1 GHz-3 GHz)**



**Fig. 120 Radiated Spurious Emission (802.11n-HT20, Ch11, 3 GHz-18 GHz)**

**Fig. 121 Radiated emission: 18 GHz - 26 GHz**

### 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. 122	Fig. 123	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)

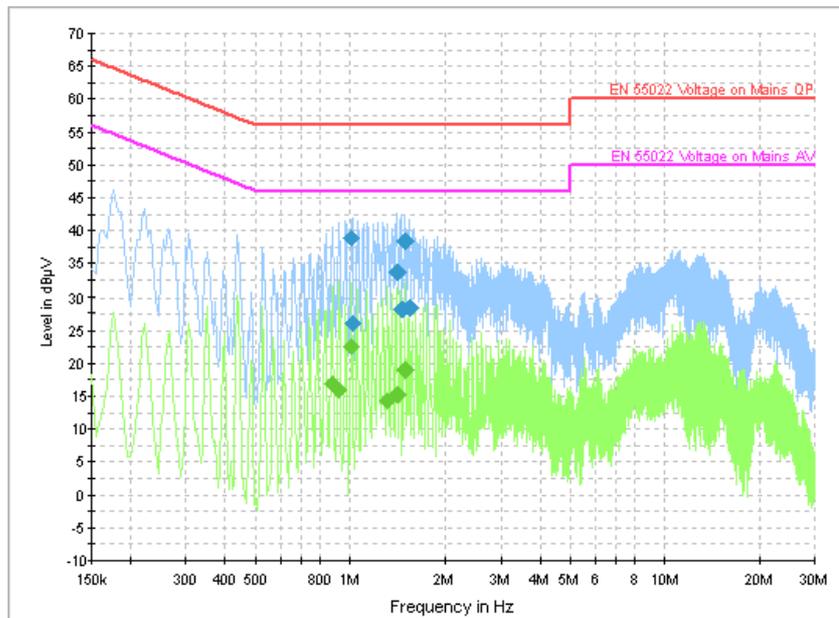
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11b mode	Idle	
0.15 to 0.5	56 to 46	Fig.122	Fig.123	P
0.5 to 5	46			
5 to 30	50			

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

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

**Conclusion: PASS**

**Test graphs as below:**



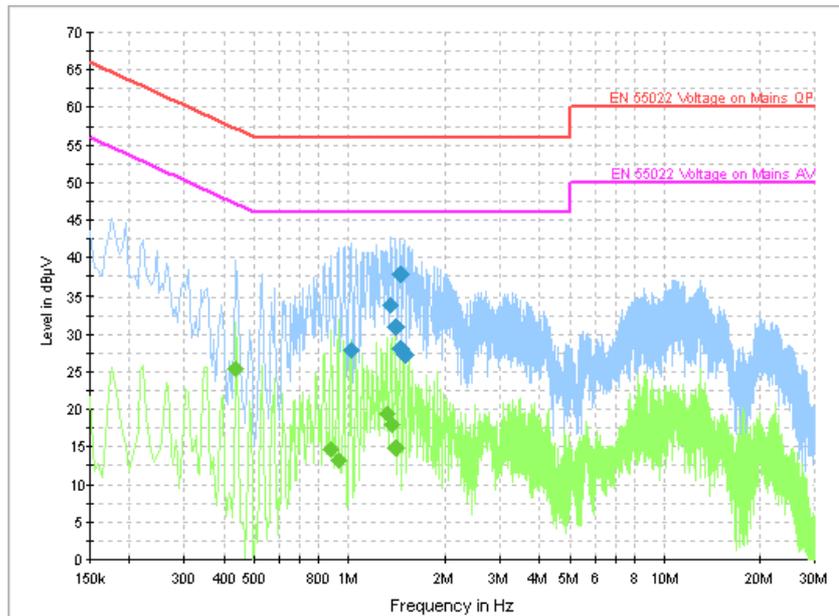
**Fig. 122 AC Powerline Conducted Emission**

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

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.009500	38.8	GND	L1	10.0	17.2	56.0
1.018500	26.2	GND	L1	10.0	29.8	56.0
1.405500	33.7	GND	L1	10.0	22.3	56.0
1.455000	28.3	GND	L1	10.0	27.7	56.0
1.491000	38.3	GND	L1	10.0	17.7	56.0
1.549500	28.5	GND	L1	10.0	27.5	56.0

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

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.879000	17.0	GND	L1	10.0	29.0	46.0
0.924000	16.1	GND	L1	10.0	29.9	46.0
1.009500	22.7	GND	L1	10.0	23.3	46.0
1.320000	14.3	GND	L1	10.0	31.7	46.0
1.405500	15.2	GND	L1	10.0	30.8	46.0
1.491000	19.0	GND	L1	10.0	27.0	46.0



**Fig. 123 AC Powerline Conducted Emission**

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

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.018500	27.8	GND	L1	10.0	28.2	56.0
1.356000	33.8	GND	L1	10.0	22.2	56.0
1.405500	30.9	GND	L1	10.0	25.1	56.0
1.446000	37.8	GND	L1	10.0	18.2	56.0
1.455000	28.2	GND	L1	10.0	27.8	56.0
1.500000	27.3	GND	L1	10.0	28.7	56.0

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

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.438000	25.4	GND	L1	10.0	21.7	47.1
0.879000	14.7	GND	L1	10.0	31.3	46.0
0.924000	13.2	GND	L1	10.0	32.8	46.0
1.320000	19.5	GND	L1	10.0	26.5	46.0
1.365000	18.0	GND	L1	10.0	28.0	46.0
1.405500	14.9	GND	L1	10.0	31.1	46.0