



No. DGA-PL-114/01-02



TESTING  
CNAS L0442

# TEST REPORT

No. 2010WLN0223

<b>Product name</b>	<b>WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone</b>
<b>Model</b>	<b>Vodafone 945</b>
<b>Client</b>	<b>ZTE Corporation</b>
<b>Classification of test</b>	<b>Type Approval</b>

**Telecommunication Metrology Center**

**of Ministry of Industry and Information Technology**

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**Telecommunication Metrology Center**  
**of Ministry of Industry and Information Technology**  
**No. 2010WLN0223**

Product name	WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone	Sample Model	Vodafone 945
Client	ZTE Corporation	Type of test	type approval
Factory	ZTE Corporation	Sampling arrival date	2010-07-02
Manufacturer	ZTE Corporation		
Sampling/ Sending sample	Sending sample	Sample sent by	/
Sampling location	/	Sampling person	/
Sample quantity	2	Sample matrix	/
Series number of the Sample	004401782134205, 004401782133934		
Manufacture date	/	Manufacture location	/
Test basis	FCC Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits; general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz. ANSI C63.4 - 2003 KDB558074 Measurement of Digital Transmission Systems Operating under Section 15.247		
Test conclusion	Pass 6 test cases were done. The test results are shown in the clause 6 and annex B. The sample(s) passed all the tests required by the client. Date of issue: 2010-08-20		
Note	The test results relate only to the items tested of the sample(s).		

Approved by 陆水松 (Lu Bingsong)     
 Reviewed by 高洪 (Gao Hong)     
 Tested by 孙震宇 (Sun Zhenyu)

(Lu Bingsong - Deputy Director of the laboratory)

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## 1. COMPETENCE AND WARRANTIES

**Telecommunication Metrology Center of Ministry of Industry and Information Technology** is a test laboratory accredited by DAR (DGA) - Deutschen Akkreditierungs Rat (Deutsche Gesellschaft für Akkreditierung mbH) for the tests indicated in the Certificate No.

**DGA-PL-114/01-02.**

**Telecommunication Metrology Center of Ministry of Industry and Information Technology** is a test laboratory accredited by CNAS - China national Accreditation Service for Conformity Assessment, for the tests indicated in the Certificate No. **L0442.**

**Telecommunication Metrology Center of Ministry of Industry and Information Technology (hereinafter TMC of MIIT)** is a test laboratory competent to carry out the tests described in this test report.

**TMC of MIIT** guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at **TMC of MIIT** at the time of execution of the test.

**TMC of MIIT** is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test.

## 2. TESTING LABORATORY

### 2.1. Testing Location

Name of Company :	Telecommunication Metrology Center of Ministry of Industry and Information Technology
Address:	No 52, Hua Yuanbei Road, Haidian District, Beijing, P.R.China
Postal Code:	100191
Telephone:	+86-10-62302041
Fax:	+86-10-62302504

### 2.2. Testing 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
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

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

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

**Fully-anechoic chamber1** (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

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

**Fully-anechoic chamber2** (Tapered Section: 8.75 meters×3.66 meters×3.66 meters, Rectangular Section: 7.32 meters×3.97 meters×3.66 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 k
Ground system resistance	< 0.5
Uniformity of field strength	Between 0 and 6 dB, from 30MHz to 40 000 MHz

### 2.3. Testing Period

The performed test started on 3<sup>rd</sup> July, 2010 and finished on 11<sup>th</sup> August, 2010.

## 3. APPLICANT INFORMATION

### 3.1. Client information

<b>Name of Company:</b>	ZTE Corporation
<b>Address /Post:</b>	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
<b>City:</b>	Shenzhen
<b>Postal Code:</b>	518057
<b>Country:</b>	China
<b>Telephone:</b>	+86-21-68897541
<b>Fax:</b>	+86-21-50801070

### 3.2. Manufacturer information

<b>Name of Company:</b>	ZTE Corporation
<b>Address /Post:</b>	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
<b>City:</b>	Shenzhen
<b>Postal Code:</b>	518057
<b>Country:</b>	China
<b>Telephone:</b>	+86-21-68897541
<b>Fax:</b>	+86-21-50801070

## 4. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT(AE)

### 4.1. About EUT

Product name:	WCDMA/GSM ( GPRS ) Dual-Mode Digital Mobile Phone
Model:	Vodafone 945
FCC ID:	Q78-VDF945
With WLAN Function:	Yes
EUT operating voltage- Normal:	3.7
Extreme Low Voltage:	3.5
Extreme High Voltage:	4.2
Extreme temperature:	-10°C / + 55°C

Note: please refer to ANNEX A in this test report for Photographs of EUT.

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

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	004401782134205	p3sC	VF945-MSM7227-V01a-June072010-Vodafone-DE
EUT2	004401782133934	p3sC	VF945-MSM7227-V01a-June072010-Vodafone-DE

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

### 4.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Travel Adapter	STC-A220501700M5-C	/
AE2	Battery	Li3715T42P3h654251	/

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

## 5. REFERENCE DOCUMENTS

### 5.1. Documents supplied by applicant

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

### 5.2. Reference Documents

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

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902 - 928MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz.	July 10, 2008 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2003
KDB558074	Measurement of Digital Transmission Systems Operating under Section 15.247	March 23, 2005

## 6. TEST RESULTS

### 6.1. Summary of Test Results

Abbreviations used in this clause:

**P** Pass

**F** Fail

**NA** not applicable

**NM** not measured

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Maximum Peak Output Power	15.247 (a)	<b>P</b>
Peak Power Spectral Density	15.247 (d)	<b>P</b>
Occupied 6dB Bandwidth	15.247(d)	<b>P</b>
Band Edges Compliance	15.247 (b)	<b>P</b>
Transmitter Spurious Emission-Conducted	15.247	<b>P</b>
Transmitter Spurious Emission-Radiated	15.247, 15.209, 15.209	<b>P</b>
AC Powerline Conducted Emission	15.107, 15.207	<b>P</b>

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

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

### 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 4 according to the standards or reference documents listed in section 5.2.

## 7. TEST EQUIPMENTS

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ26	200136	Rohde & Schwarz	2011-01-15
2	Power Meter	NRVD	101078	Rohde & Schwarz	2010-09-02
3	DIODE Power Sensor	NRV-Z15	100103	Rohde & Schwarz	2010-09-02
4	Test Receiver	ESS	847151/015	Rohde & Schwarz	2010-10-30
5	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2011-08-13

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2011-02-12
2	BiLog Antenna	3142B	9908-1403	EMCO	2011-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2010-12-25

### Anechoic chamber

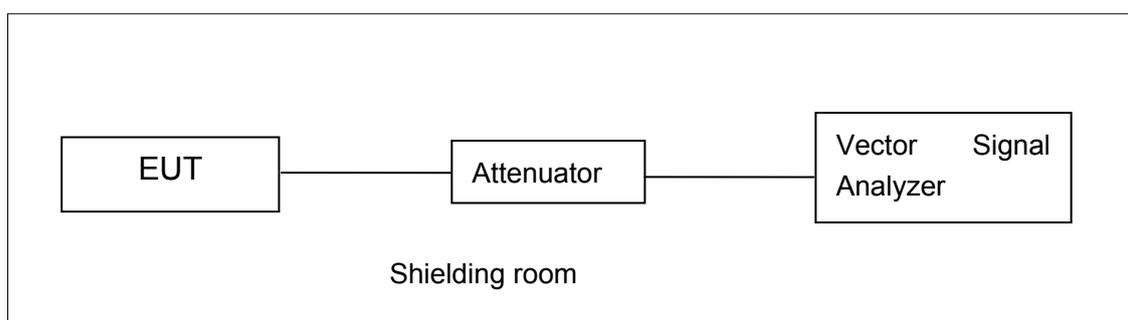
Fully anechoic chamber by Frankonia German.

## 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 working mode
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

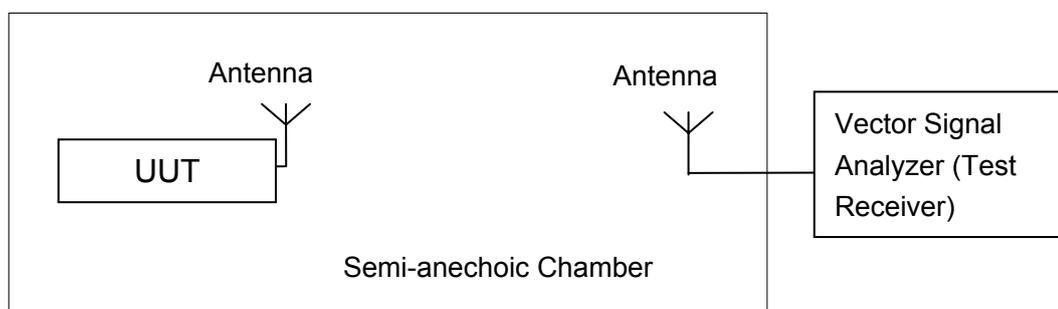


#### A.1.2. Radiated Emission Measurements

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

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

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



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

### A.2. Maximum 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
-------------------------	--------

**Measurement Results:**

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	13.69	/	/
	2	13.72	/	/
	5.5	13.75	/	/
	11	13.76	13.78	14.19
802.11g	6	13.55	13.26	13.57
	9	13.52	/	/
	12	13.53	/	/
	18	13.52	/	/
	24	13.49	/	/
	36	13.51	/	/
	48	13.32	/	/
	54	13.49	/	/

The conducted peak output power is as above, and the data rate 11Mbps and 6Mbps are selected as worse condition. The following cases are performed with this condition. All test cases are performed with conducted method except transmitter spurious emission, which is performed with conducted and radiated method.

**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
		Fig.	Value	
802.11b	1	Fig.1	-10.84	P
	6	Fig.2	-10.51	P
	11	Fig.3	-10.59	P
802.11g	1	Fig.4	-9.92	P
	6	Fig.5	-8.06	P
	11	Fig.6	-6.50	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
		Fig.	Value	
802.11b	1	Fig.7	12115	P
	6	Fig.8	12115	P
	11	Fig.9	12115	P
802.11g	1	Fig.10	16442	P
	6	Fig.11	16442	P
	11	Fig.12	16442	P

See annex B for test graphs.

**Conclusion: PASS**

#### **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
-------------------------	--------

**Measurement Result:**

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

See annex B for test graphs.

**Conclusion: PASS**

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

#### A.6.1 Transmitter Spurious Emission - Conducted

**Measurement Results:**

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

802.11g	1	2.412 GHz	Fig.26	P
		30 MHz ~ 1 GHz	Fig.27	P
		1 GHz ~ 26 GHz	Fig.28	P
	6	2.437 GHz	Fig.29	P
		30 MHz ~ 1 GHz	Fig.30	P
		1 GHz ~ 26 GHz	Fig.31	P
	11	2.472 GHz	Fig.32	P
		30 MHz ~ 1 GHz	Fig.33	P
		1 GHz ~ 26 GHz	Fig.34	P

**See annex B for test graphs.**

**Conclusion: PASS**

#### **A.6.1 Transmitter Spurious Emission - Radiated**

##### **Test Condition**

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

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

##### **Measurement Results:**

Both the lowest channel and the highest channel band-edge measurements were performed. The result at the highest channel show the worst performance, so the report only includes the result performed at the highest channel.

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.45GHz ~2.5GHz	Fig.35	P
	1	30 MHz ~1 GHz	Fig.36	P
		1 GHz ~ 4 GHz	Fig.37	P
		4 GHz ~ 18 GHz	Fig.38	P
	6	30 MHz ~1 GHz	Fig.39	P
		1 GHz ~ 4 GHz	Fig.40	P
		4 GHz ~ 18 GHz	Fig.41	P
	11	30 MHz ~1 GHz	Fig.42	P
		1 GHz ~ 4 GHz	Fig.43	P
		4 GHz ~ 18 GHz	Fig.44	P
802.11g	Power	2.45GHz~2.5GHz	Fig.45	P
	1	30 MHz ~1 GHz	Fig.46	P
		1 GHz ~ 4 GHz	Fig.47	P
		4 GHz ~ 18 GHz	Fig.48	P
	6	30 MHz ~1 GHz	Fig.49	P
		1 GHz ~ 4 GHz	Fig.50	P
		4 GHz ~ 18 GHz	Fig.51	P
	11	30 MHz ~1 GHz	Fig.52	P
		1 GHz ~ 4 GHz	Fig.53	P
		4 GHz ~ 18 GHz	Fig.54	P
/	All channels	18 GHz~ 26 GHz	Fig.55	P

**See annex B for test graphs.**

**802.11b**

Ch1

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>Mea</sub> (dBuV/m)	Polarity
2306.613	52.19	8.7	43.49	HORIZONTAL
2310.621	51.65	8.8	42.85	HORIZONTAL
3701.403	51.64	14.3	37.34	VERTICAL
3599.198	51.29	14.1	37.19	HORIZONTAL
2302.605	51.17	8.7	42.47	HORIZONTAL
3615.23	51.05	14	37.05	VERTICAL

Ch 6

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>Mea</sub> (dBuV/m)	Polarity
2454.91	51.64	8.8	42.84	VERTICAL
2418.838	50.73	8.8	41.93	VERTICAL
3442.886	50.26	11.9	38.36	VERTICAL
3613.226	49.99	14	35.99	VERTICAL
3569.138	49.88	14.2	35.68	VERTICAL
3697.395	49.85	14.2	35.65	VERTICAL

Ch11

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>Mea</sub> (dBuV/m)	Polarity
2478.958	52.17	9.1	43.07	VERTICAL
3667.335	50.07	14.1	35.97	VERTICAL
3713.427	49.9	14.5	35.4	VERTICAL
3537.074	49.9	14.3	35.6	VERTICAL
3879.76	49.83	14.4	35.43	VERTICAL
3697.395	49.83	14.2	35.63	VERTICAL

**802.11g**

Ch 1

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>Mea</sub> (dBuV/m)	Polarity
2386.774	53.08	8.8	44.28	VERTICAL
3398.798	50.4	12	38.4	VERTICAL
3466.934	50.11	11.9	38.21	VERTICAL
3498.998	50.09	12.3	37.79	VERTICAL
3695.391	50.09	14.2	35.89	VERTICAL
3659.319	50.01	14.1	35.91	VERTICAL

Ch 6

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>Mea</sub> (dBuV/m)	Polarity
3539.078	50.75	14.3	36.45	VERTICAL
3595.19	50.59	14.1	36.49	VERTICAL
3651.303	50.47	14.1	36.37	VERTICAL
3557.114	50.33	14.3	36.03	VERTICAL
3799.599	50.07	14.1	35.97	VERTICAL
3703.407	50.04	14.3	35.74	VERTICAL

Ch 11

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>Mea</sub> (dBuV/m)	Polarity
2438.878	52.6	8.6	44	VERTICAL
2486.974	51.6	9.4	42.2	VERTICAL
3452.906	50.45	11.8	38.65	VERTICAL
3845.691	50.41	14	36.41	VERTICAL
3701.403	50.36	14.3	36.06	VERTICAL
3833.667	50.36	14	36.36	VERTICAL

**Conclusion: PASS**

**A.7. AC Powerline Conducted Emission**

**Test Condition**

<b>Voltage (V)</b>	<b>Frequency (Hz)</b>
120	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		
		802.11b Mode	802.11g Mode	
0.15 to 0.5	66 to 56	Fig. 56	Fig. 57	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		
		802.11b Mode	802.11g Mode	
0.15 to 0.5	56 to 46	Fig. 56	Fig. 57	P
0.5 to 5	46			
5 to 30	50			

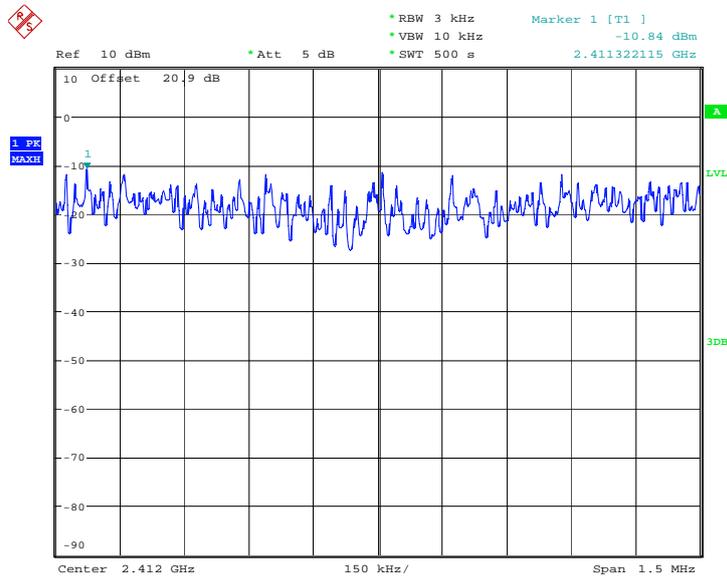
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

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

**See annex B for test graphs.**

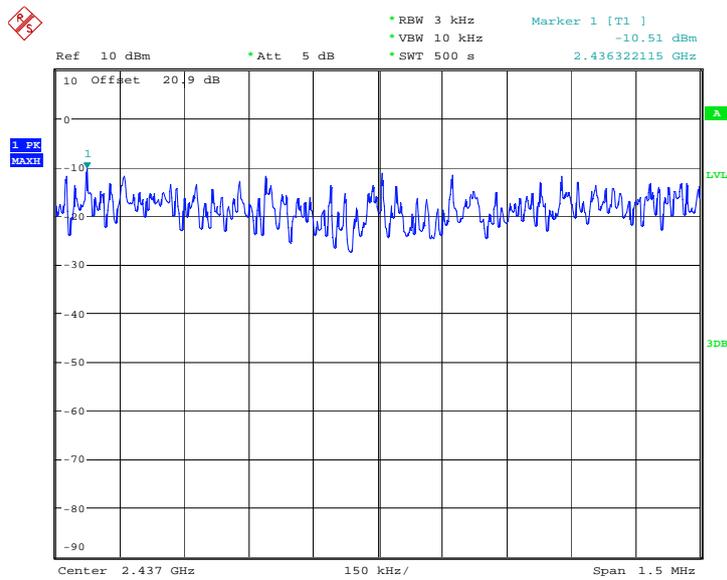
**Conclusion: PASS**

ANNEX B: TEST FIGURE LIST



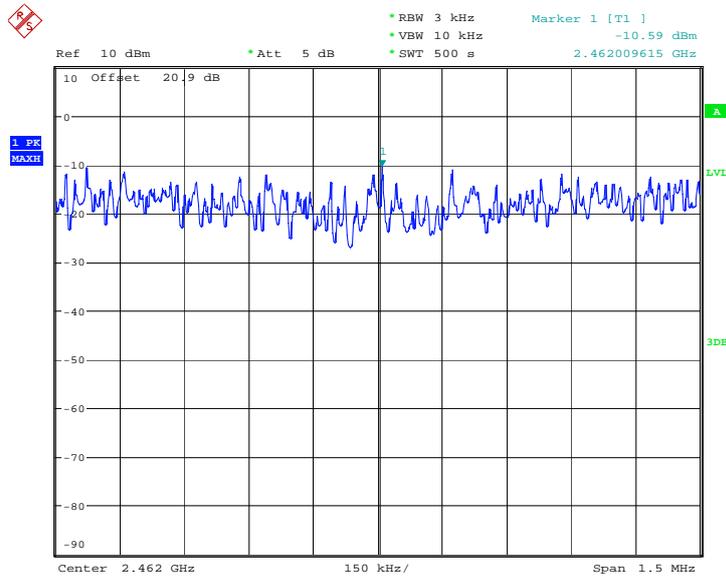
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Fig. 1 Peak Power Spectral Density (802.11b, Ch1)



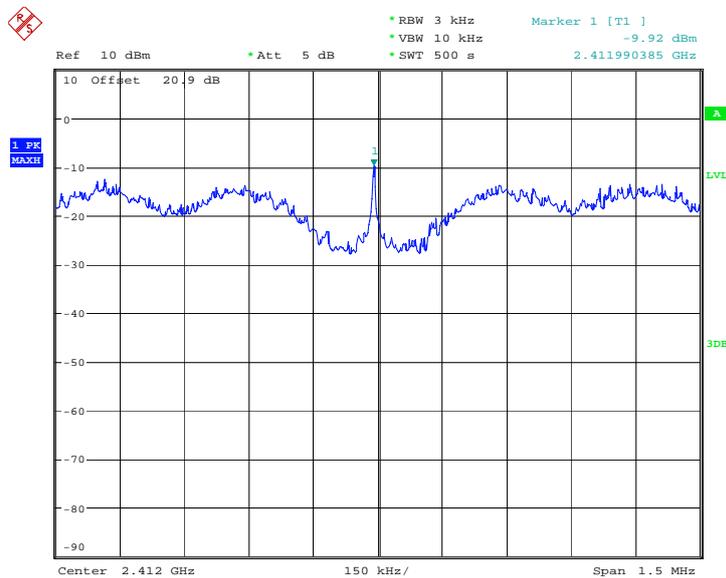
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Fig. 2 Peak Power Spectral Density (802.11b, Ch6)



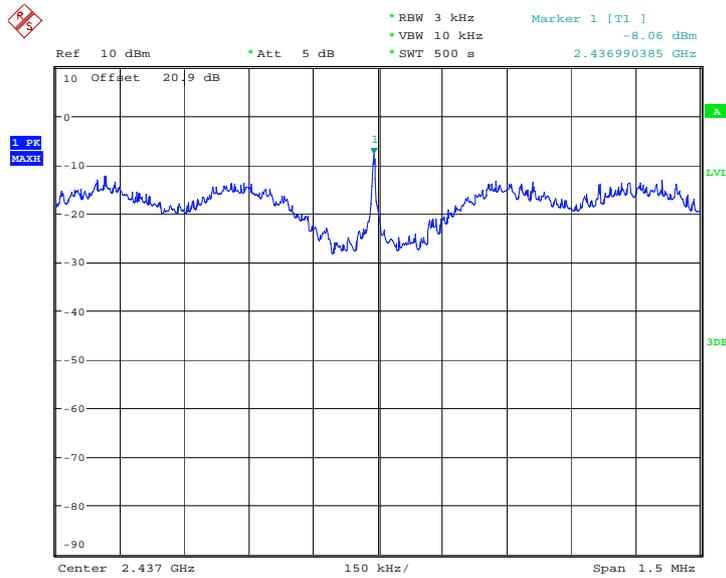
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Fig. 3 Peak Power Spectral Density (802.11b, Ch11)



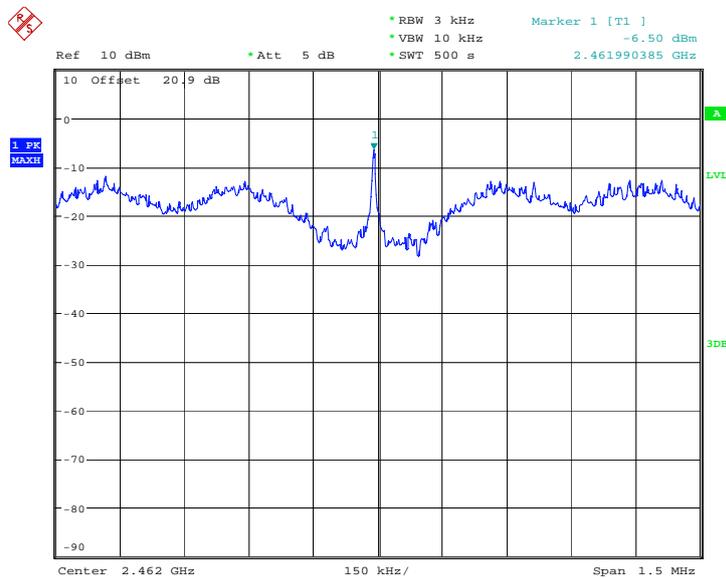
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Fig. 4 Peak Power Spectral Density (802.11g, Ch1)



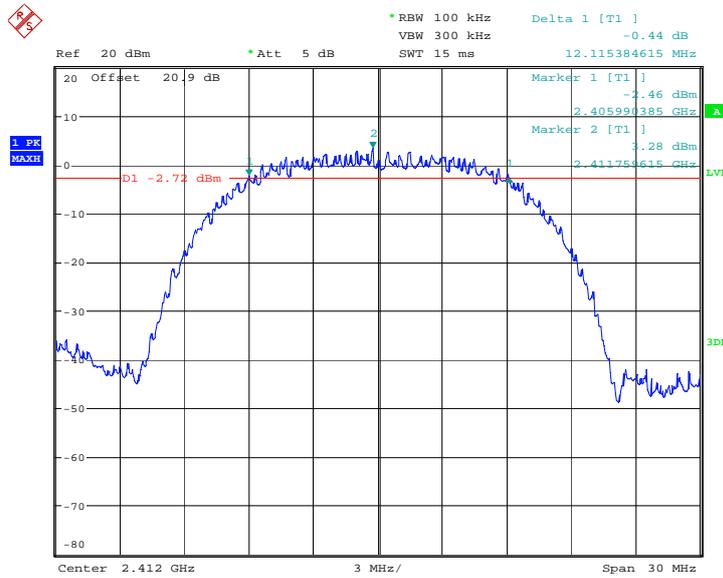
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Fig. 5 Peak Power Spectral Density (802.11g, Ch6)



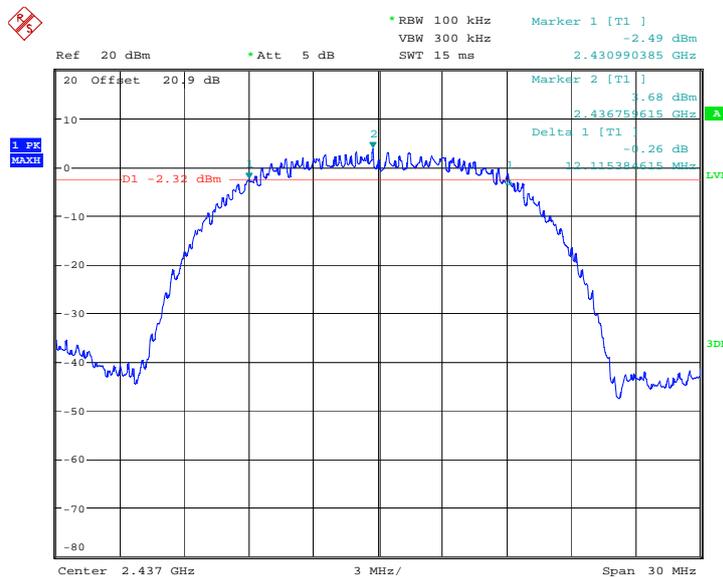
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Fig. 6 Peak Power Spectral Density (802.11g, Ch11)



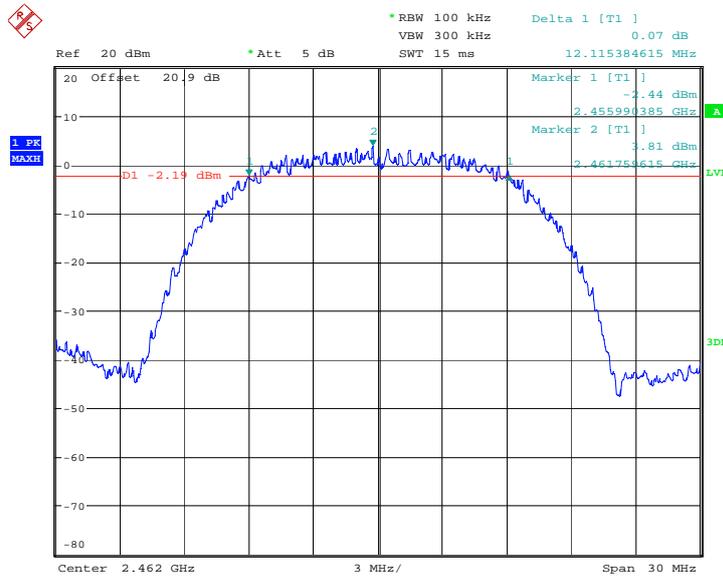
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Fig. 7 Occupied 6dB Bandwidth (802.11b, Ch 1)



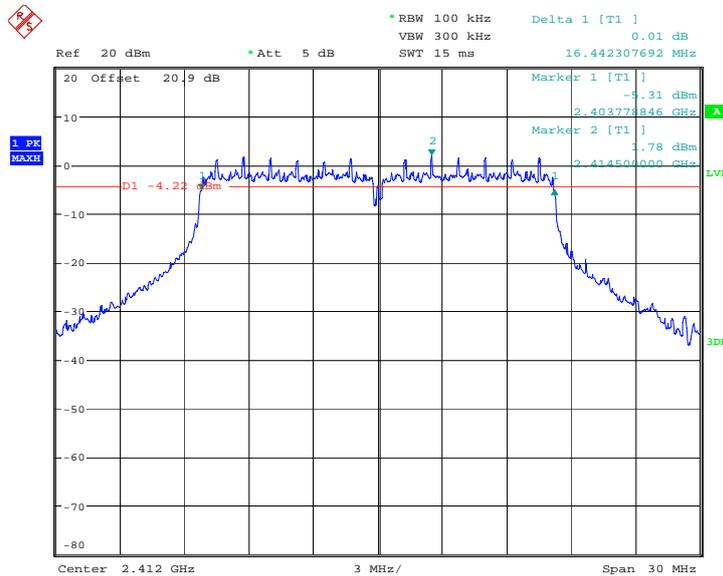
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Fig. 8 Occupied 6dB Bandwidth (802.11b, Ch 6)



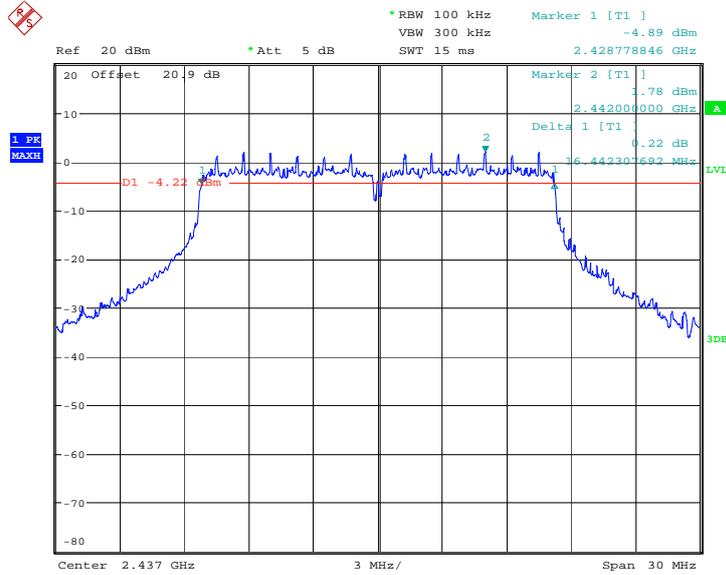
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**Fig. 9 Occupied 6dB Bandwidth (802.11b, Ch 11)**



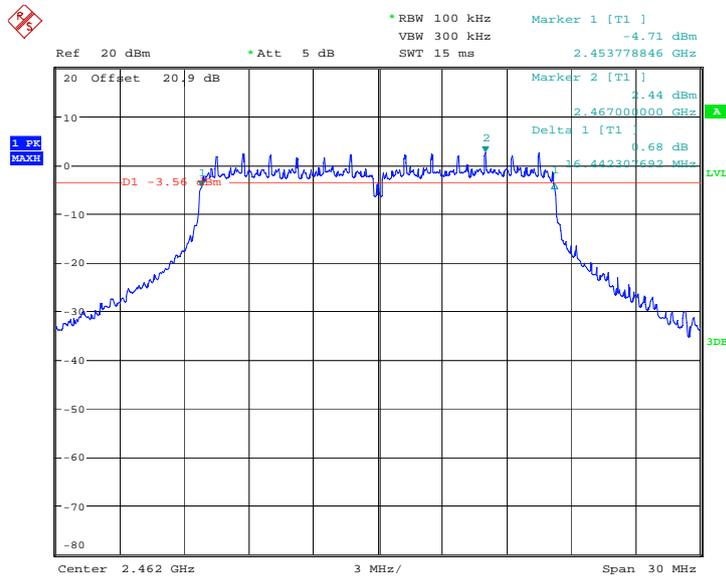
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**Fig. 10 Occupied 6dB Bandwidth (802.11g, Ch 1)**



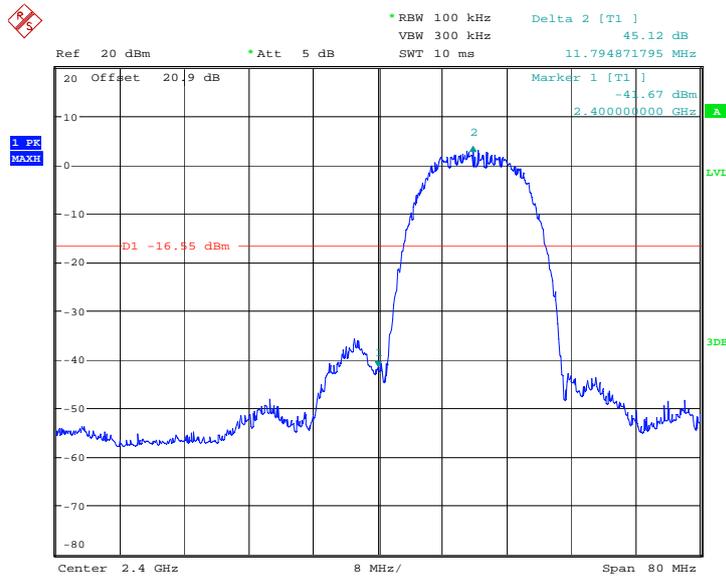
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**Fig. 11 Occupied 6dB Bandwidth (802.11g, Ch 6)**



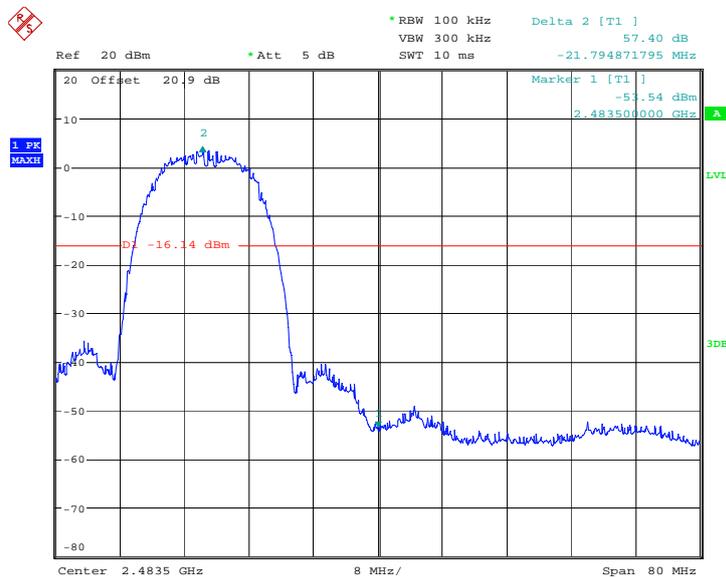
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**Fig. 12 Occupied 6dB Bandwidth (802.11g, Ch 11)**



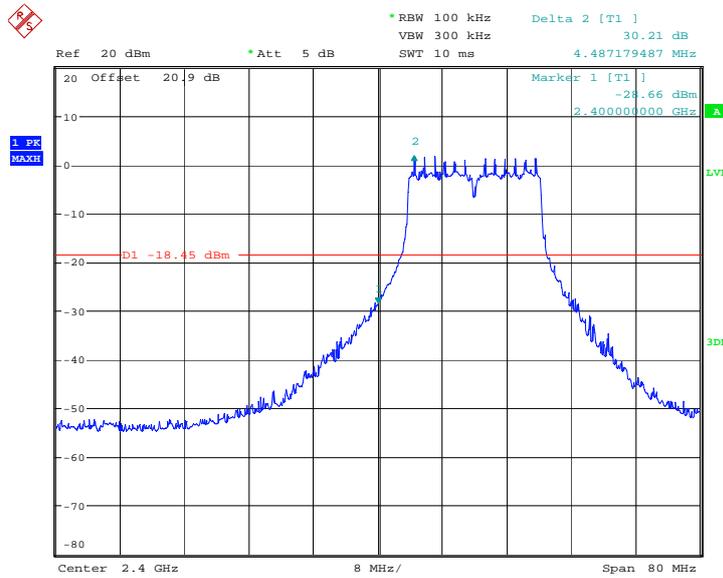
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Fig. 13 Band Edges (802.11b, Ch 1)



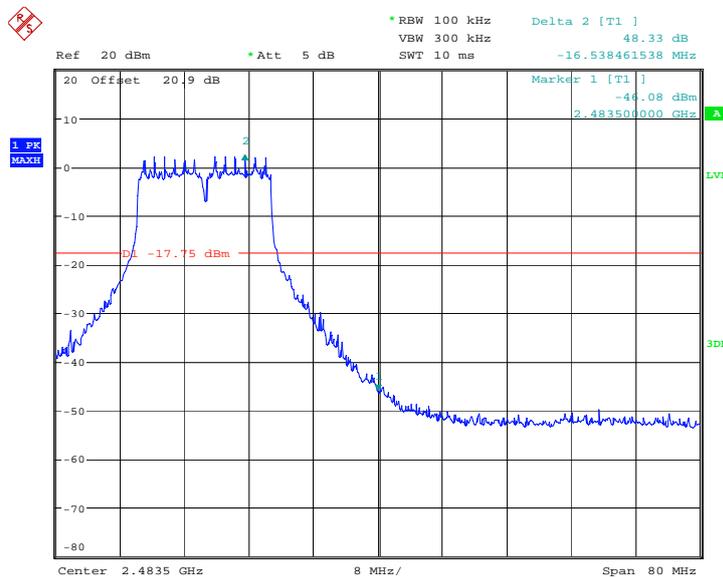
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Fig. 14 Band Edges (802.11b, Ch 11)



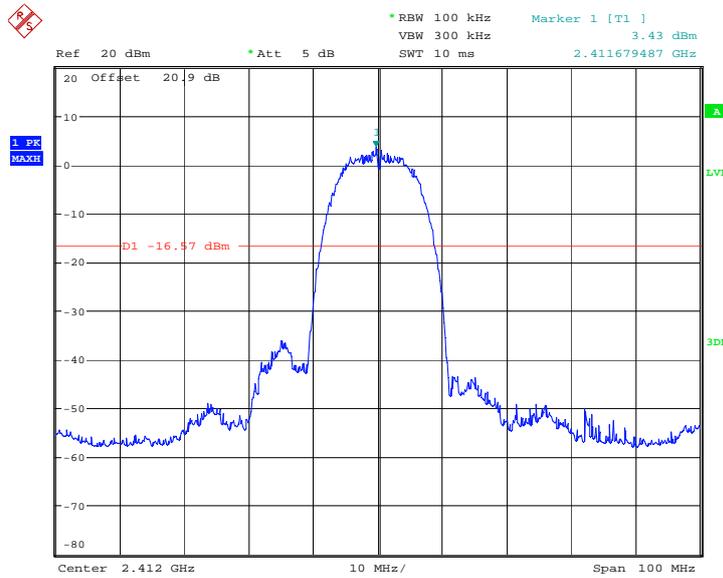
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Fig. 15 Band Edges (802.11g, Ch 1)



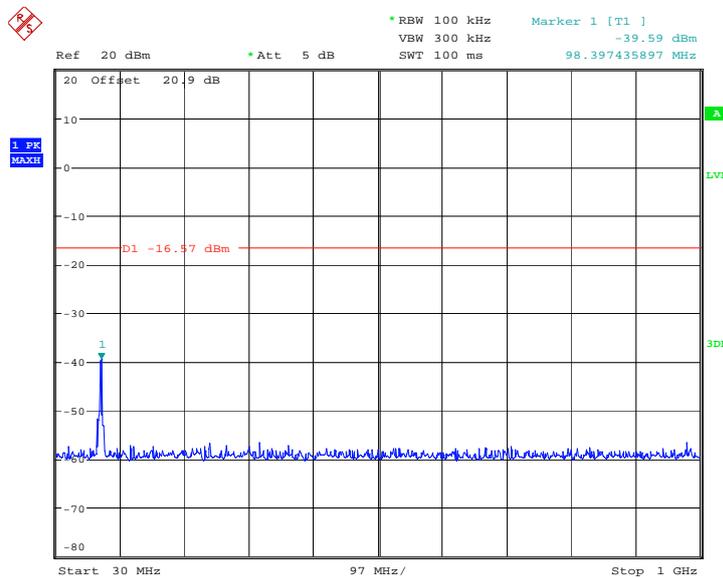
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Fig. 16 Band Edges (802.11g, Ch 11)



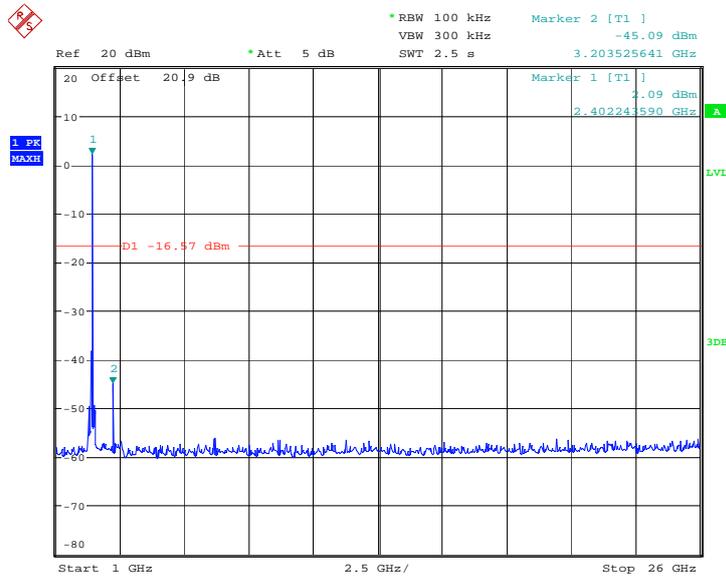
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Fig. 17 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)



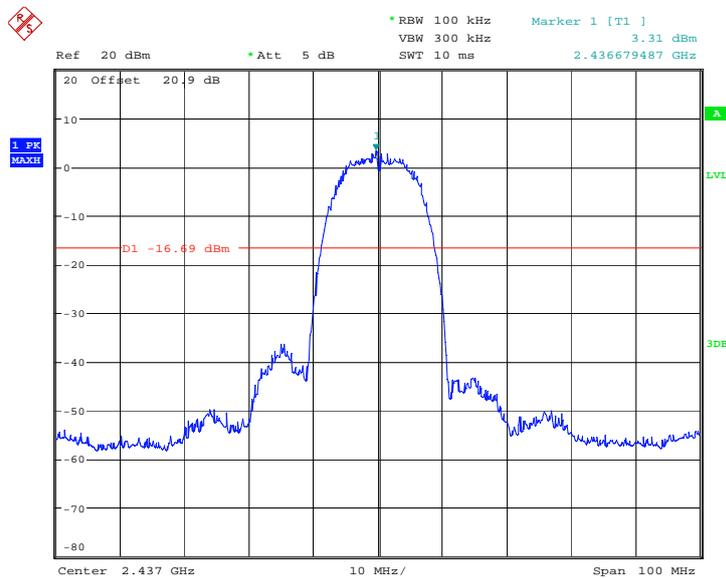
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Fig. 18 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)



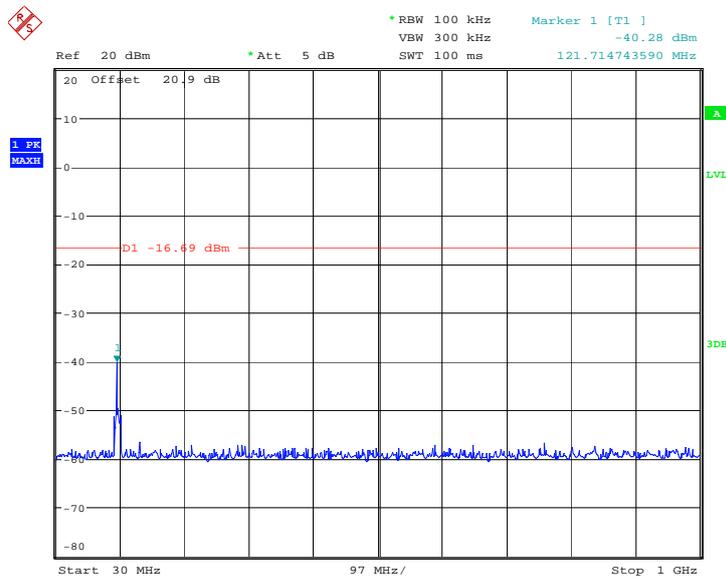
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Fig. 19 Conducted Spurious Emission (802.11b, Ch1, 1 GHz-26 GHz)



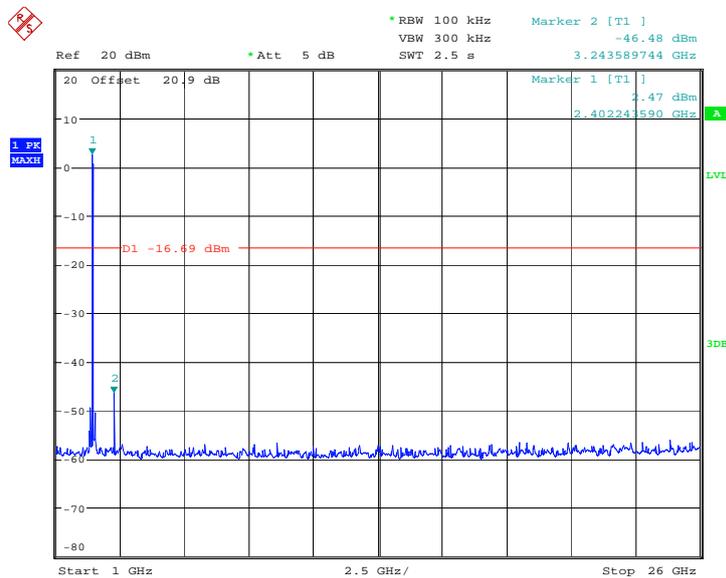
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Fig. 20 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)



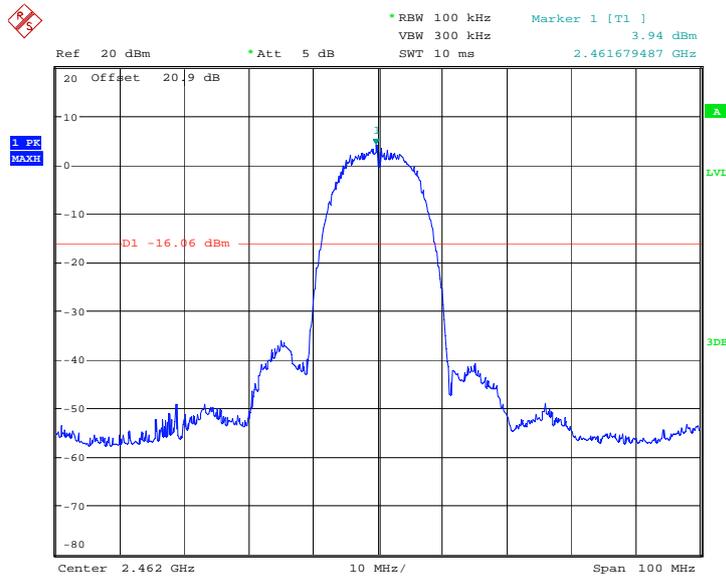
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**Fig. 21 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)**



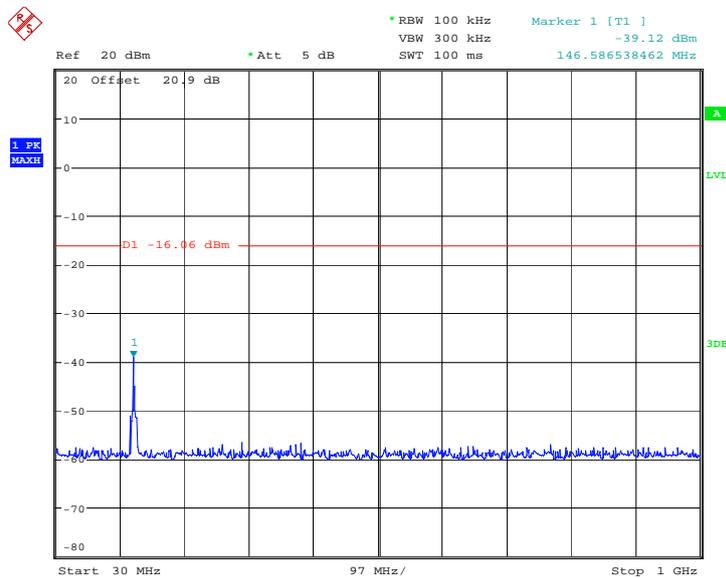
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**Fig. 22 Conducted Spurious Emission (802.11b, Ch6, 1 GHz-26 GHz)**



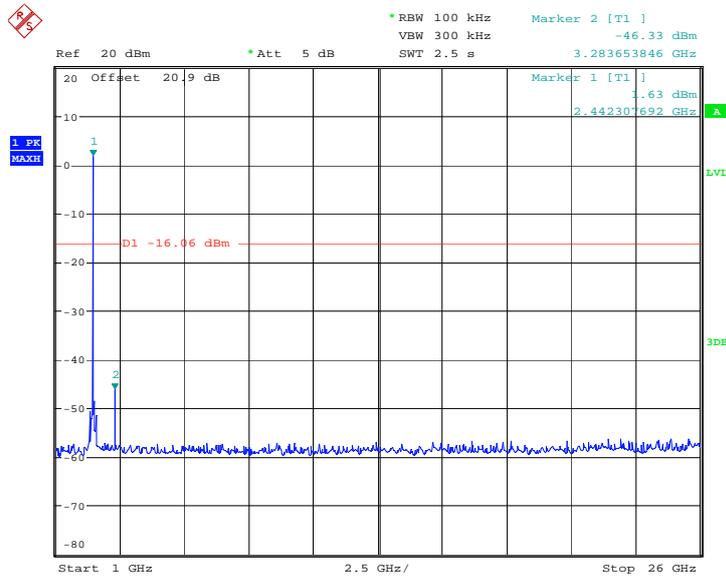
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Fig. 23 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)



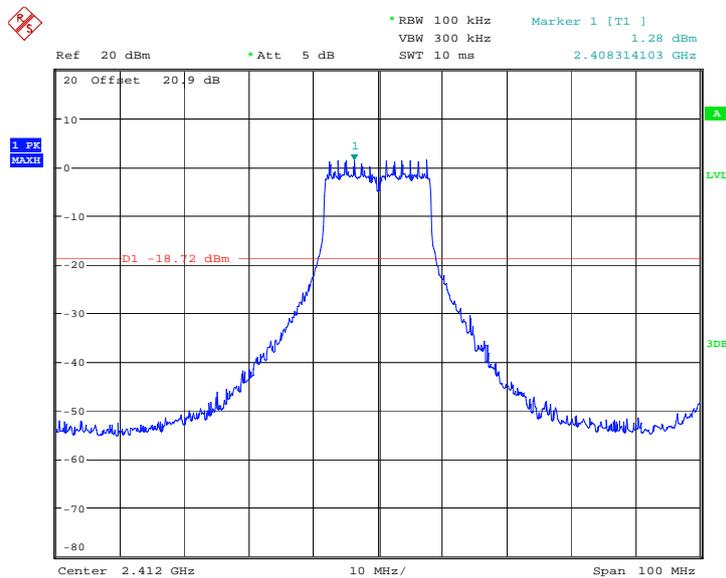
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Fig. 24 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)



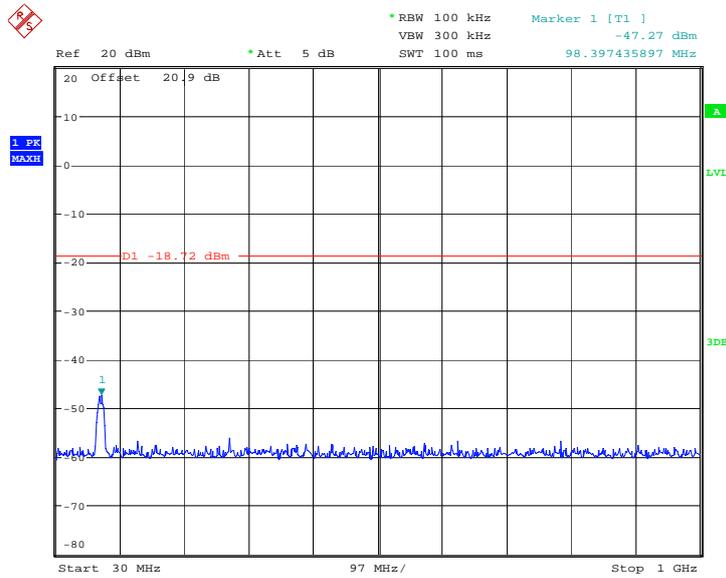
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**Fig. 25 Conducted Spurious Emission (802.11b, Ch11, 1 GHz-26 GHz)**



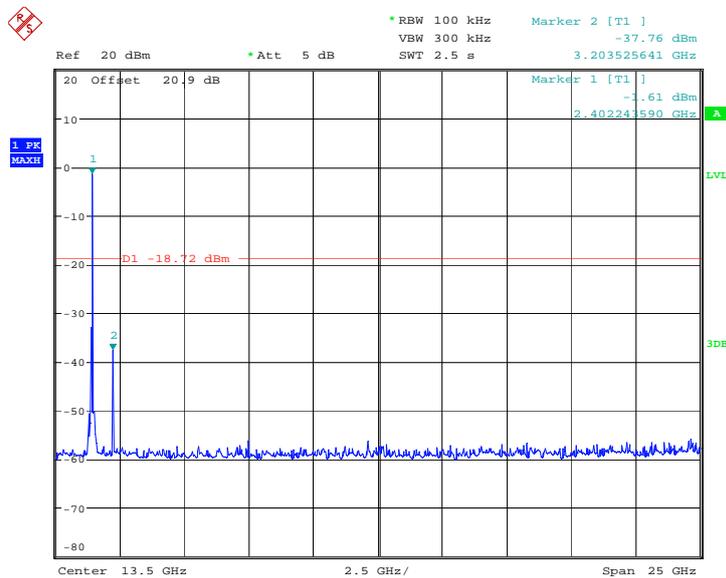
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**Fig. 26 Conducted Spurious Emission (802.11g, Ch1, Center Frequency)**



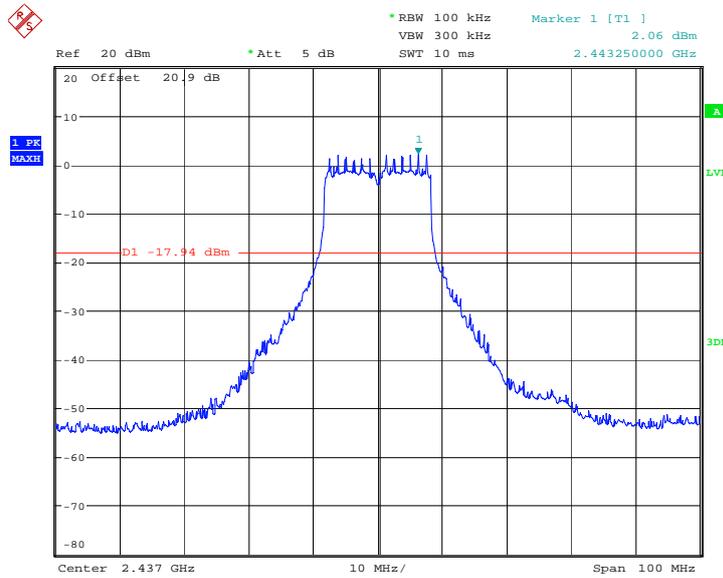
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Fig. 27 Conducted Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)



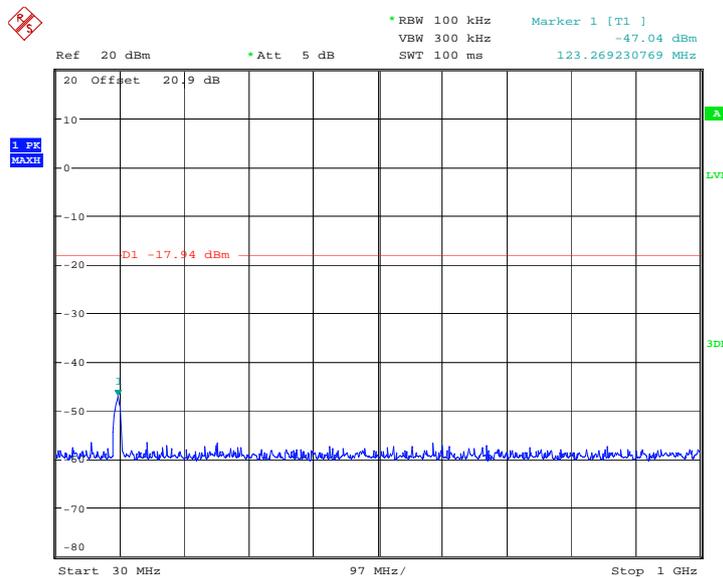
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Fig. 28 Conducted Spurious Emission (802.11g, Ch1, 1 GHz-26 GHz)



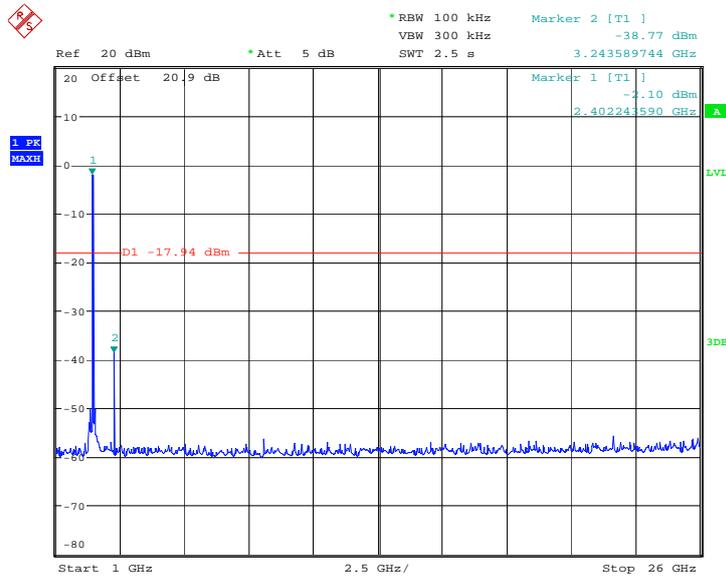
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Fig. 29 Conducted Spurious Emission (802.11g, Ch6, Center Frequency)



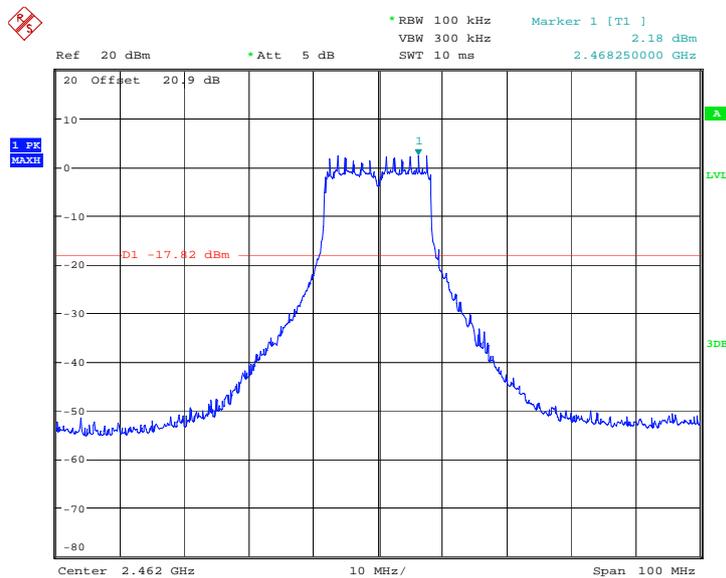
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Fig. 30 Conducted Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)



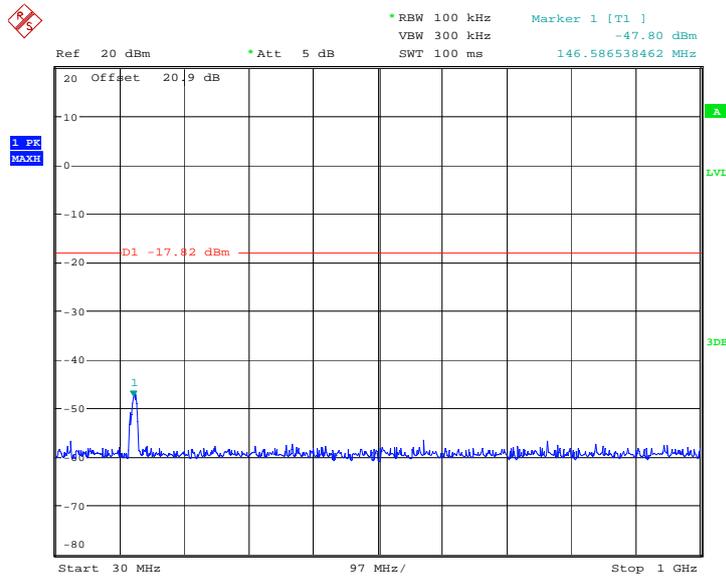
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Fig. 31 Conducted Spurious Emission (802.11g, Ch6, 1 GHz-26 GHz)



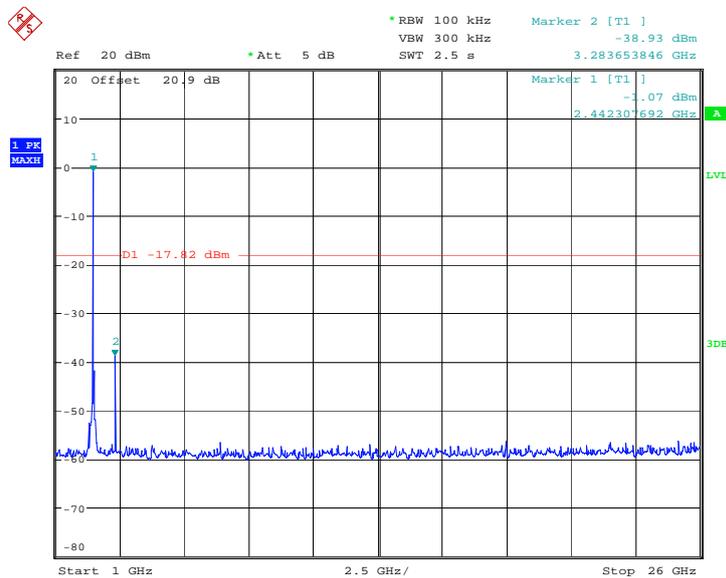
Date: 4.AUG.2010 17:16:33

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



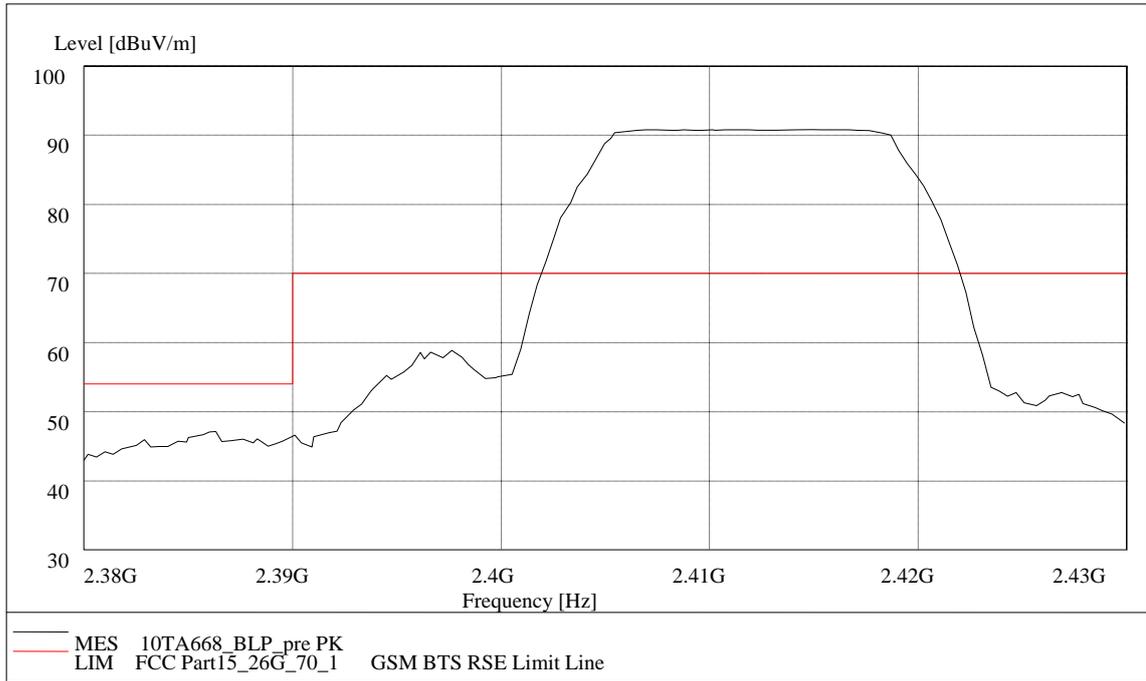
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**Fig. 33 Conducted Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)**

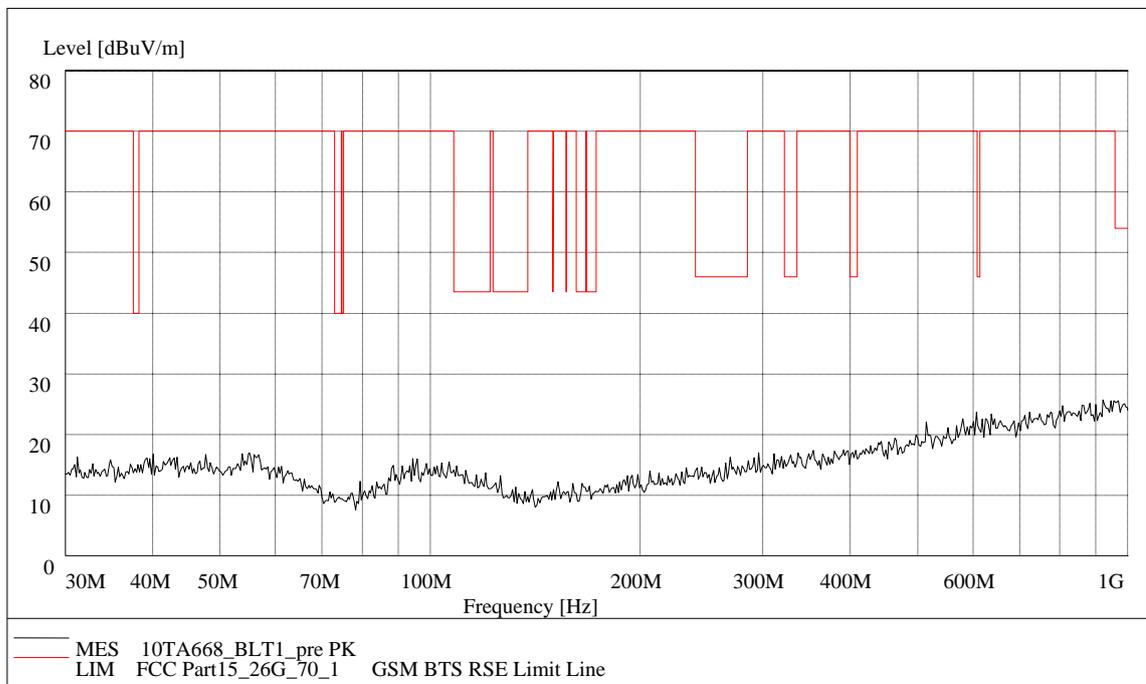


Date: 4.AUG.2010 17:17:05

**Fig. 34 Conducted Spurious Emission (802.11g, Ch11, 1 GHz-26 GHz)**



**Fig. 35 Radiated Spurious Emission (Power): 802.11b, 2.45 GHz - 2.5GHz**



**Fig. 36 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)**

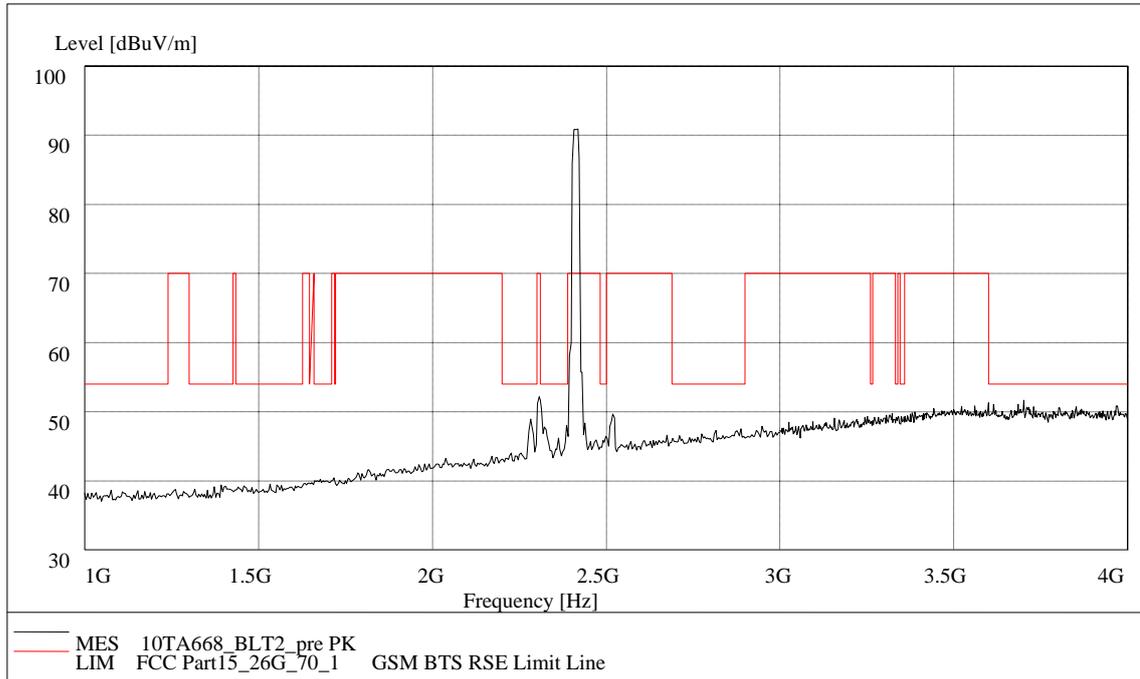


Fig. 37 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-4 GHz)

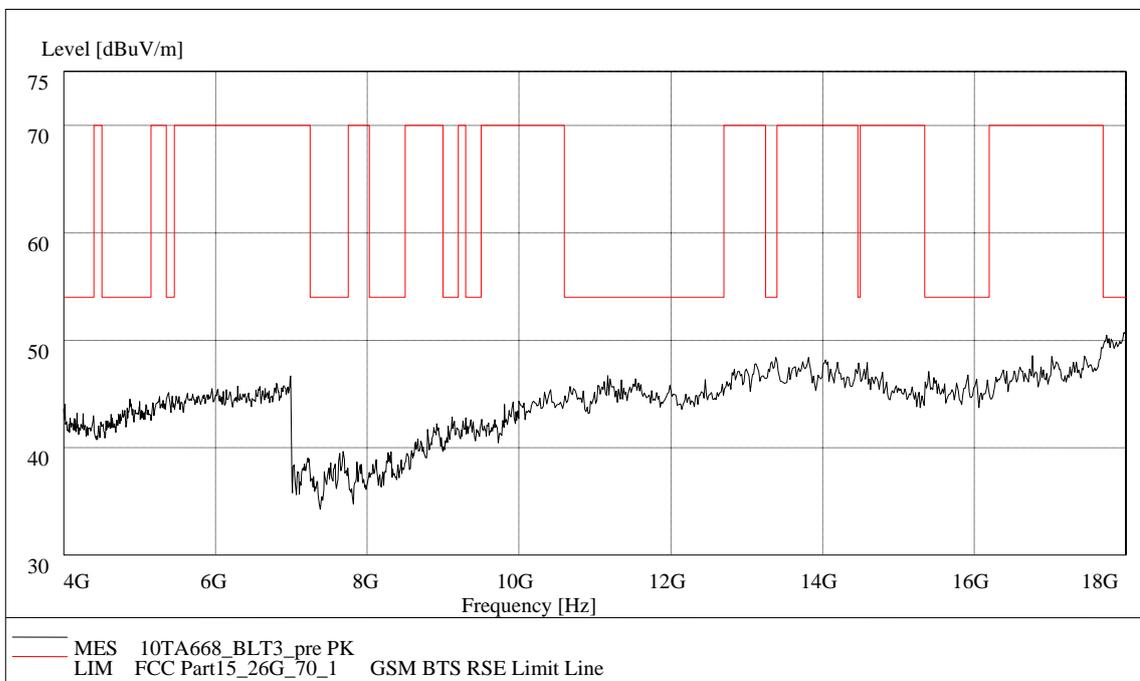


Fig. 38 Radiated Spurious Emission (802.11b, Ch1, 4 GHz-18 GHz)

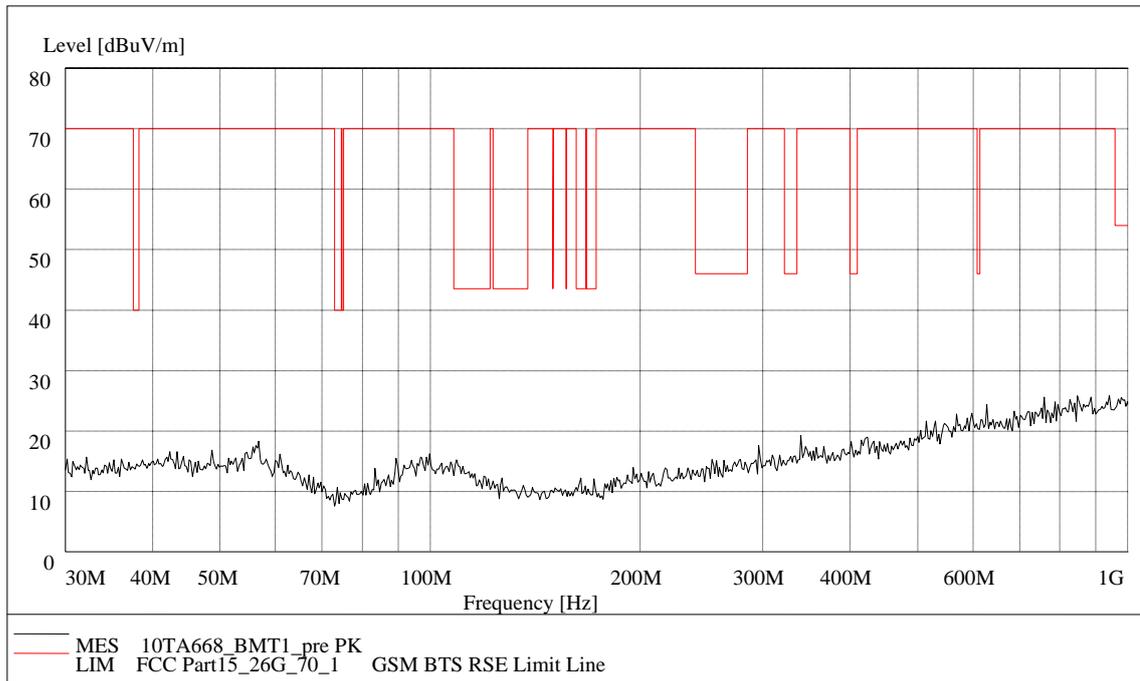


Fig. 39 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

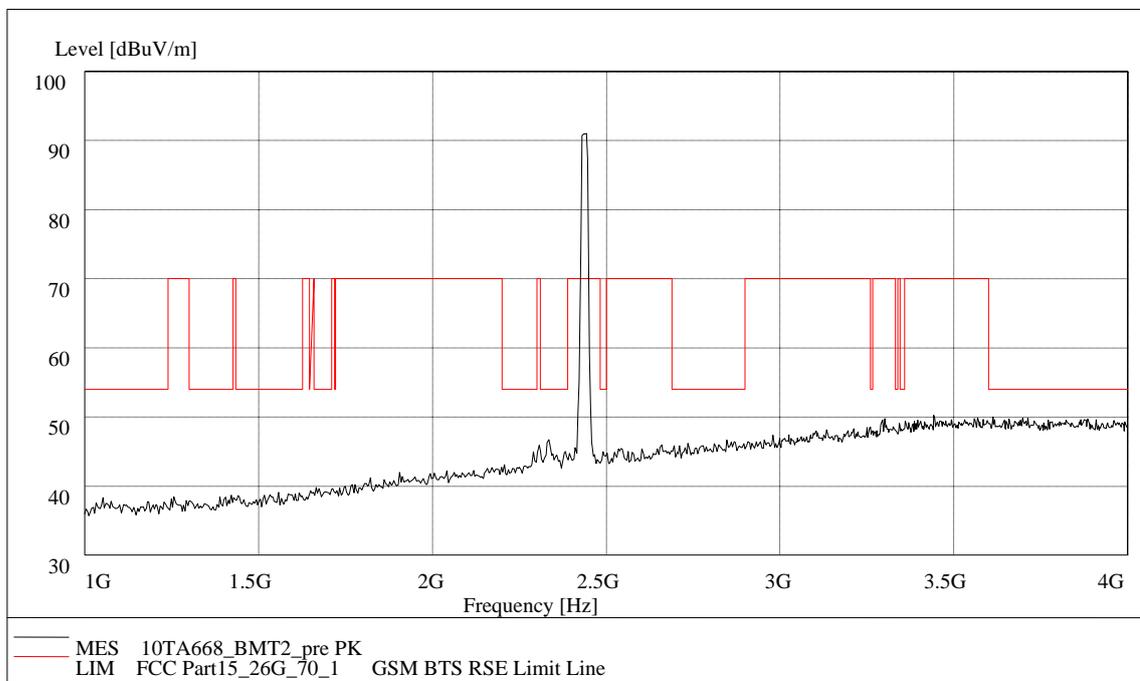
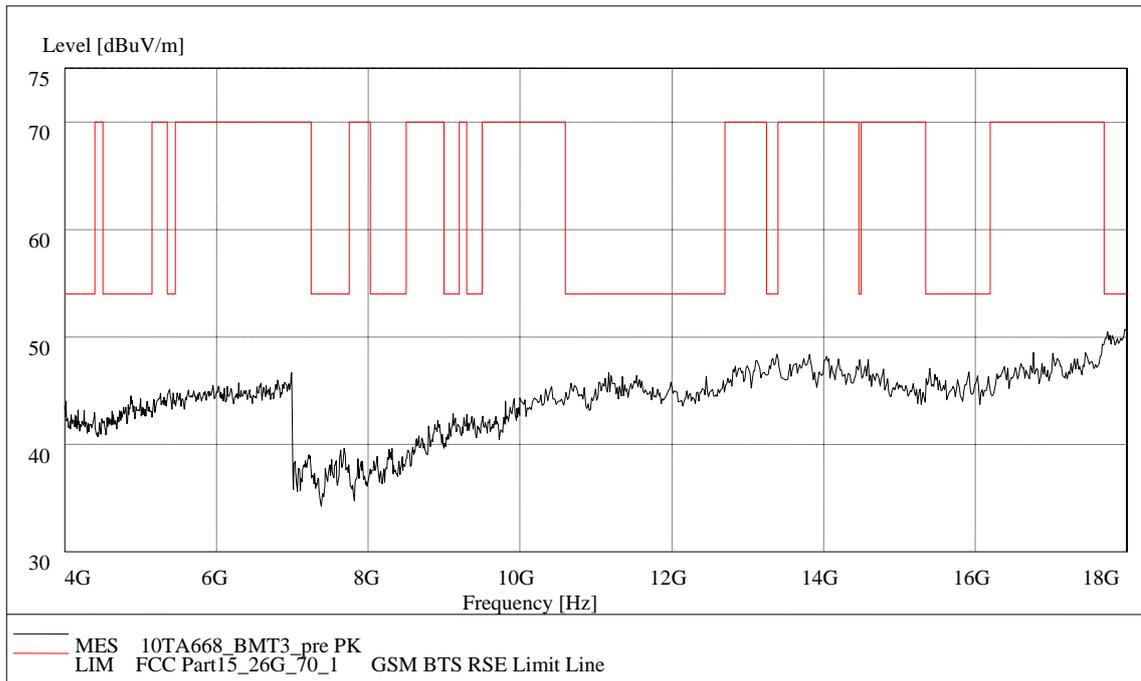
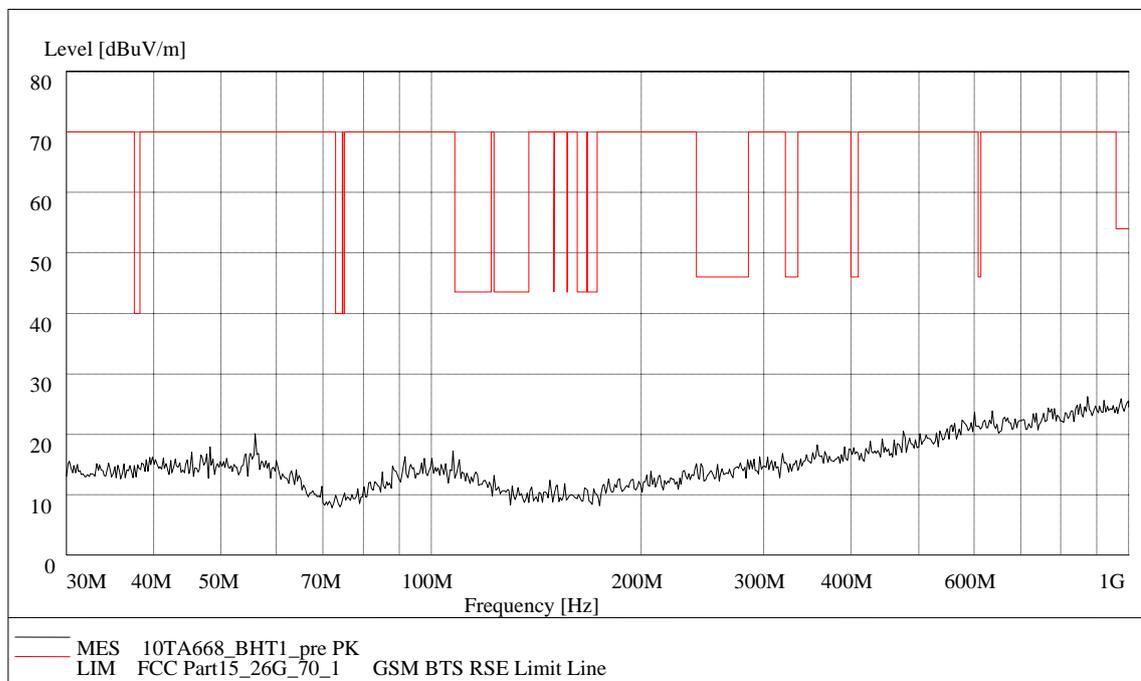


Fig. 40 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-4 GHz)



**Fig. 41 Radiated Spurious Emission (802.11b, Ch6, 4 GHz-18 GHz)**



**Fig. 42 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)**

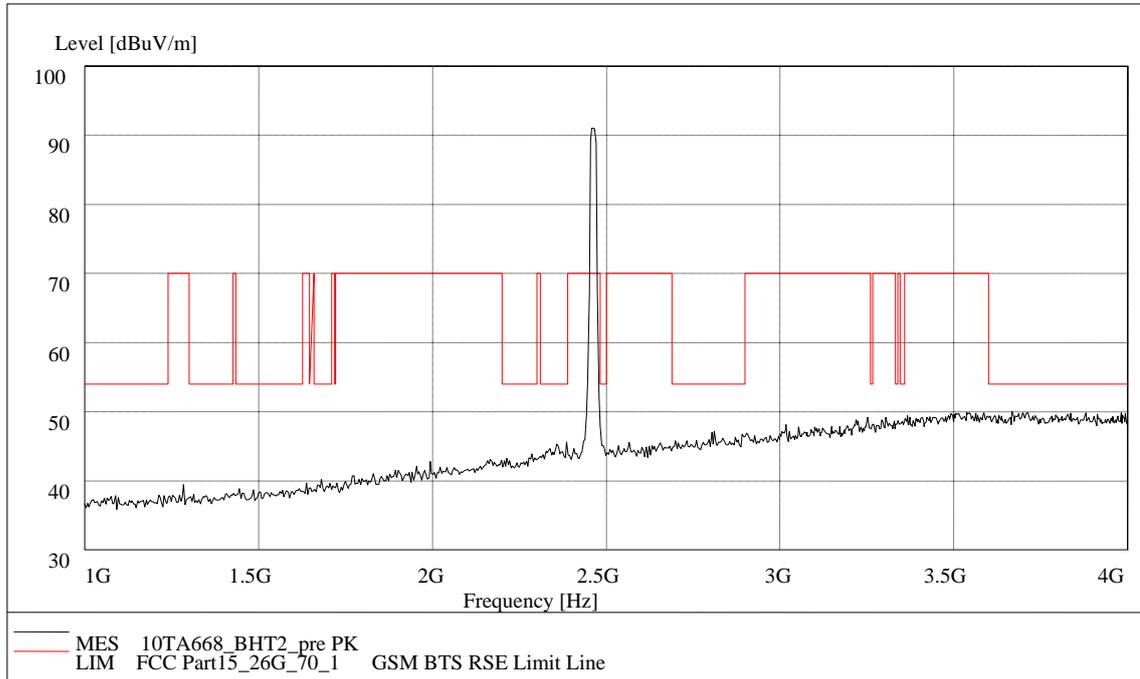


Fig. 43 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-4 GHz)

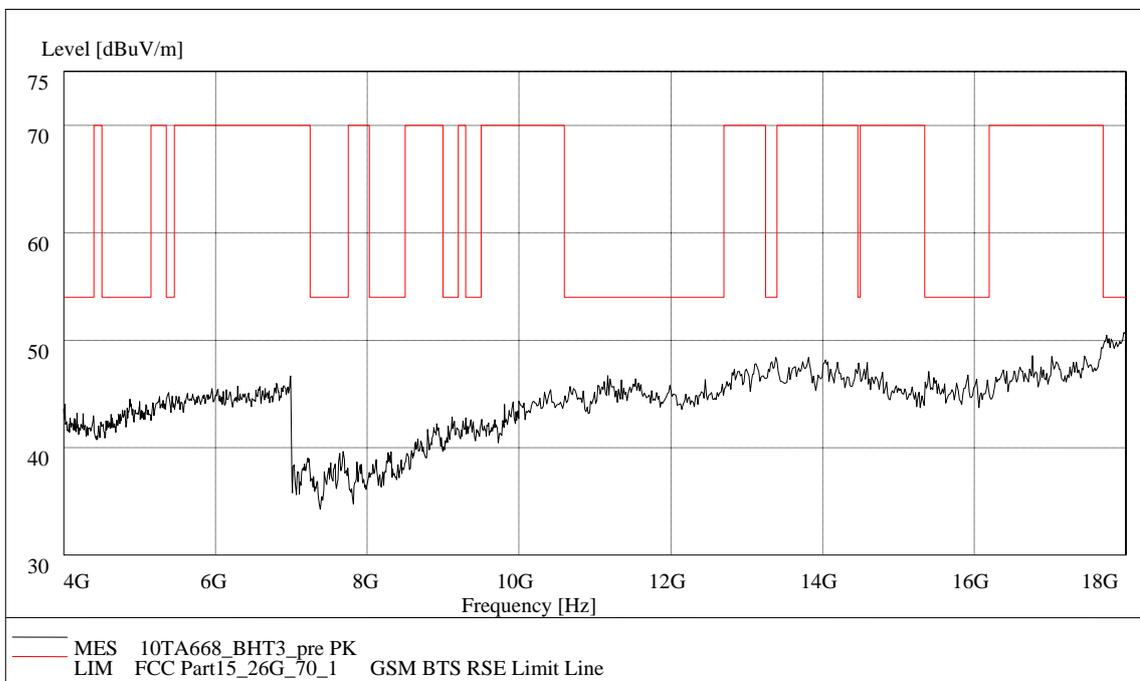
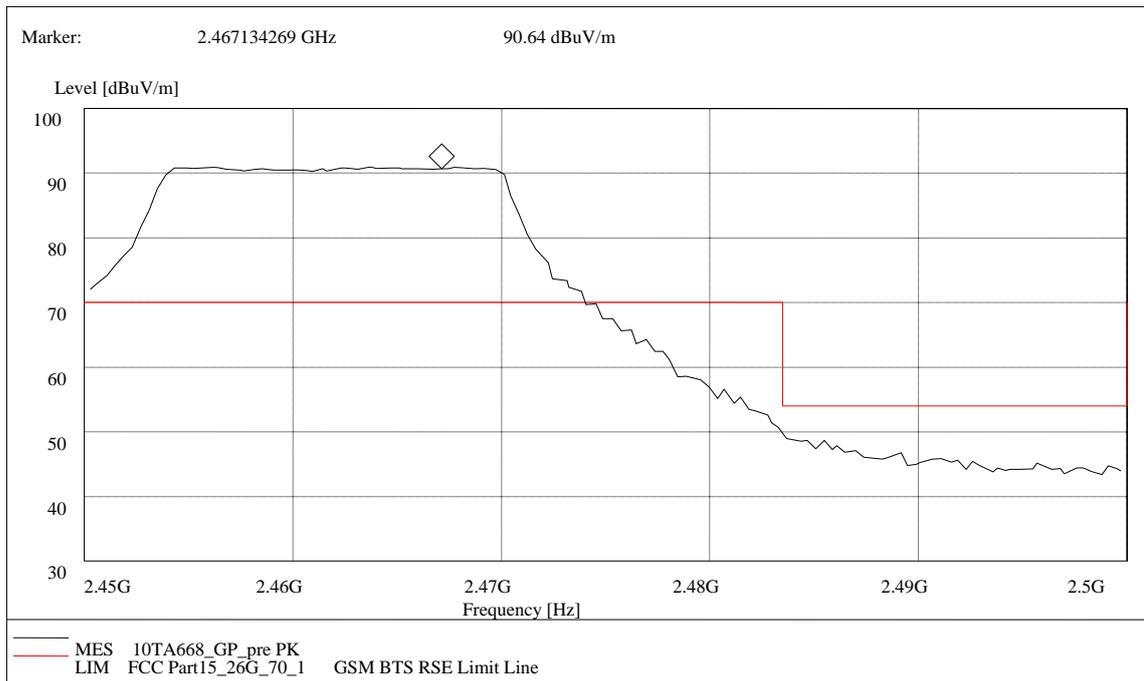
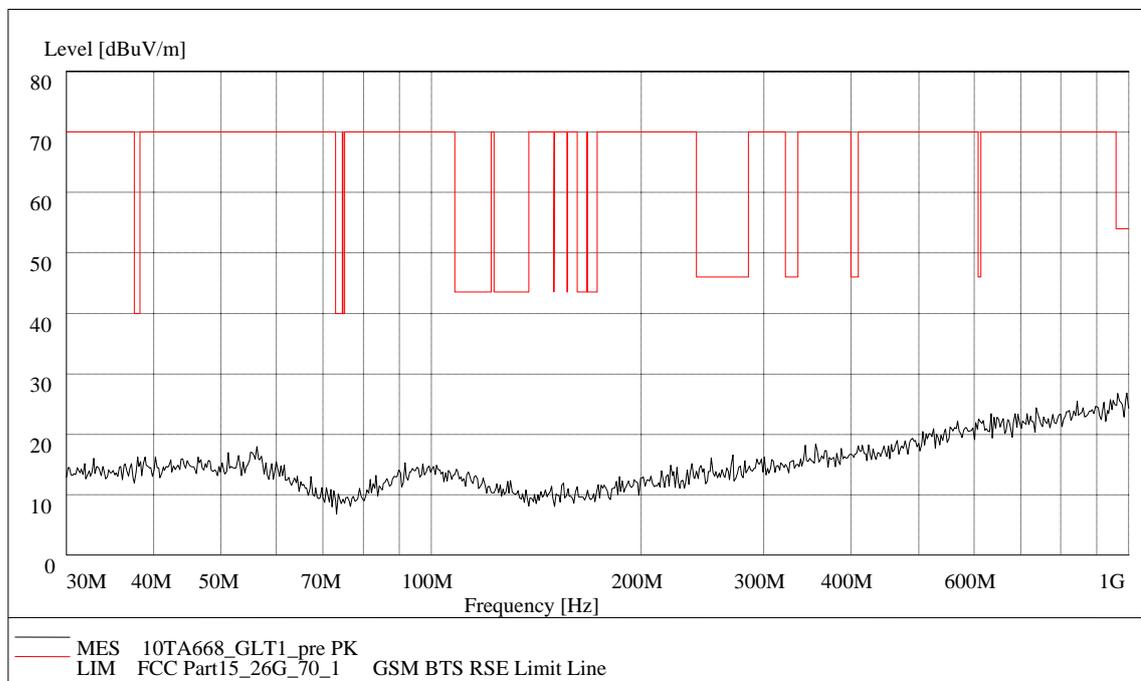


Fig. 44 Radiated Spurious Emission (802.11b, Ch11, 4 GHz-18 GHz)



**Fig. 45 Radiated Spurious Emission (Power): 802.11g, 2.45 GHz - 2.5GHz**



**Fig. 46 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)**

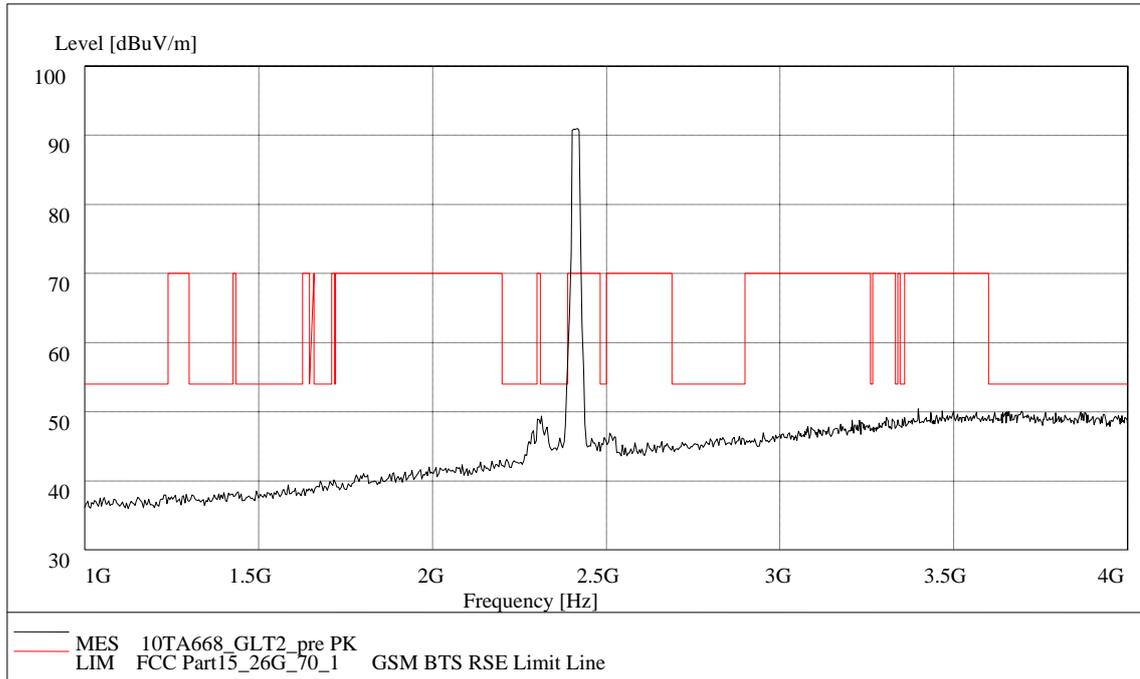


Fig. 47 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-4 GHz)

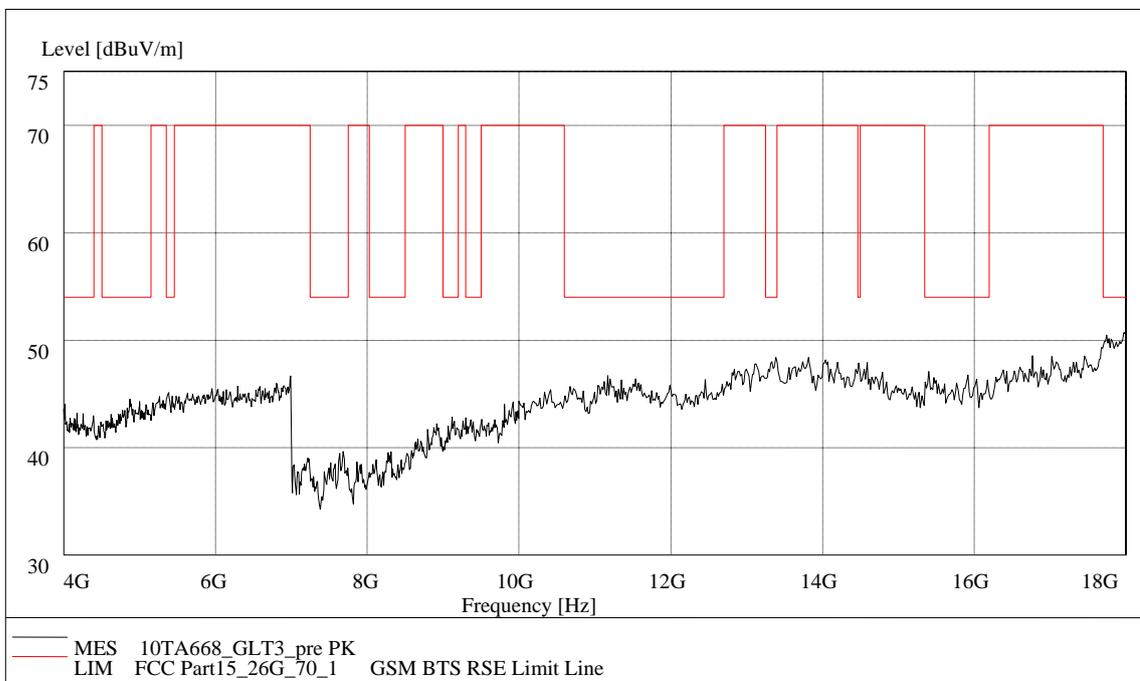


Fig. 48 Radiated Spurious Emission (802.11g, Ch1, 4 GHz-18 GHz)

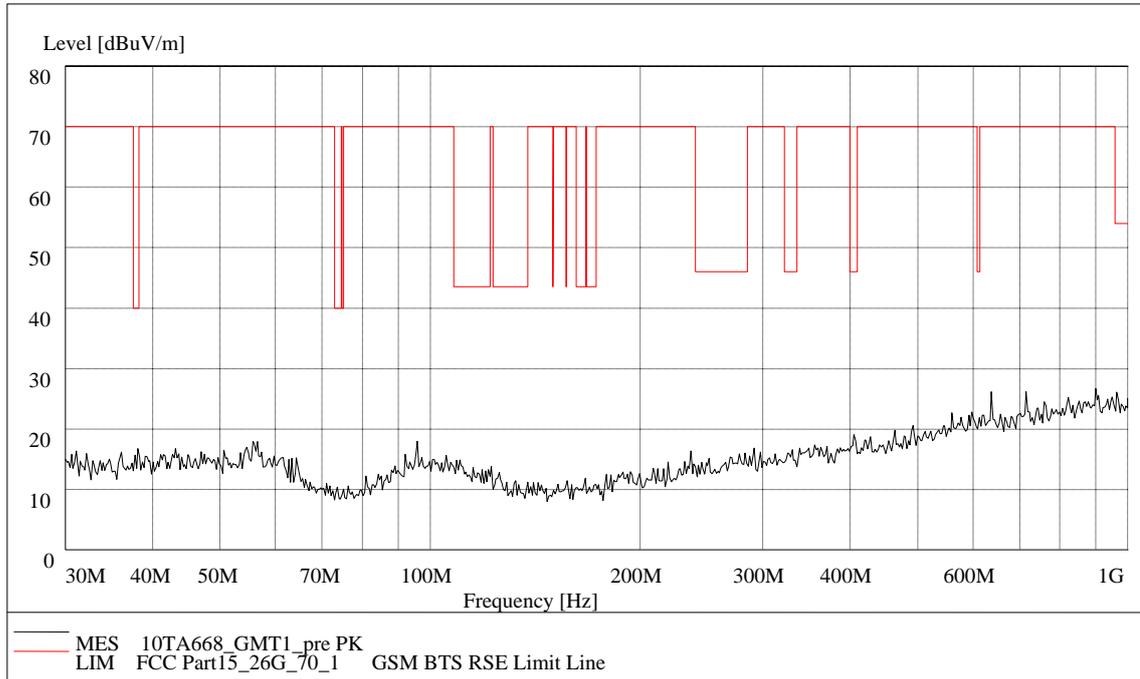


Fig. 49 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

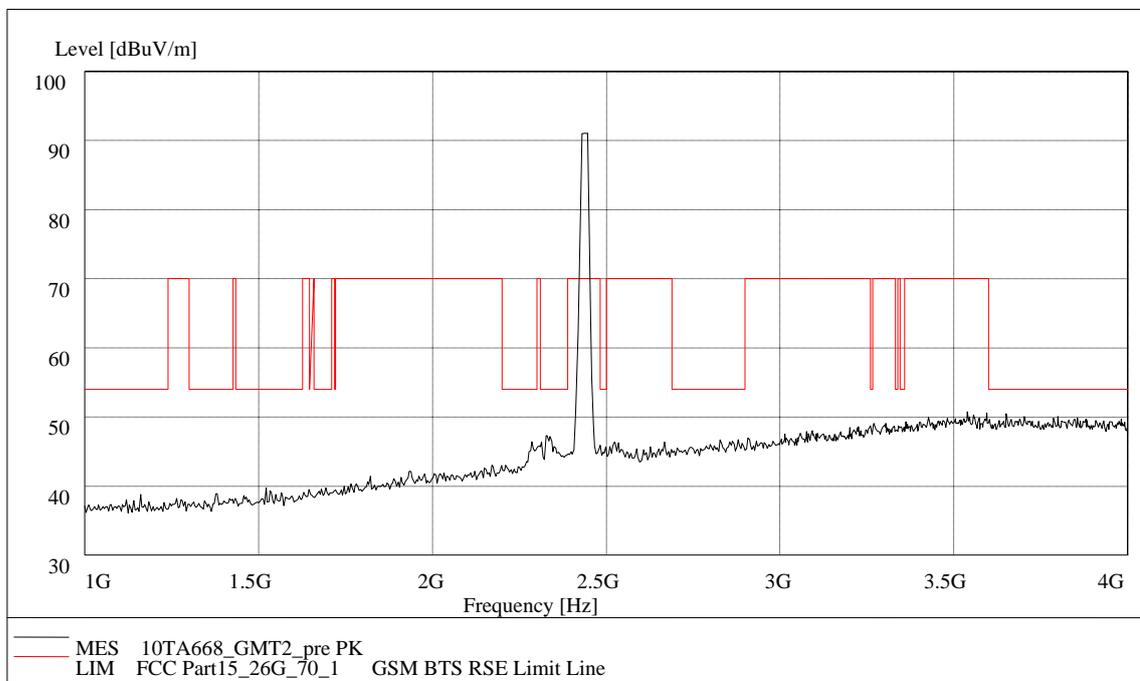


Fig. 50 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-4 GHz)

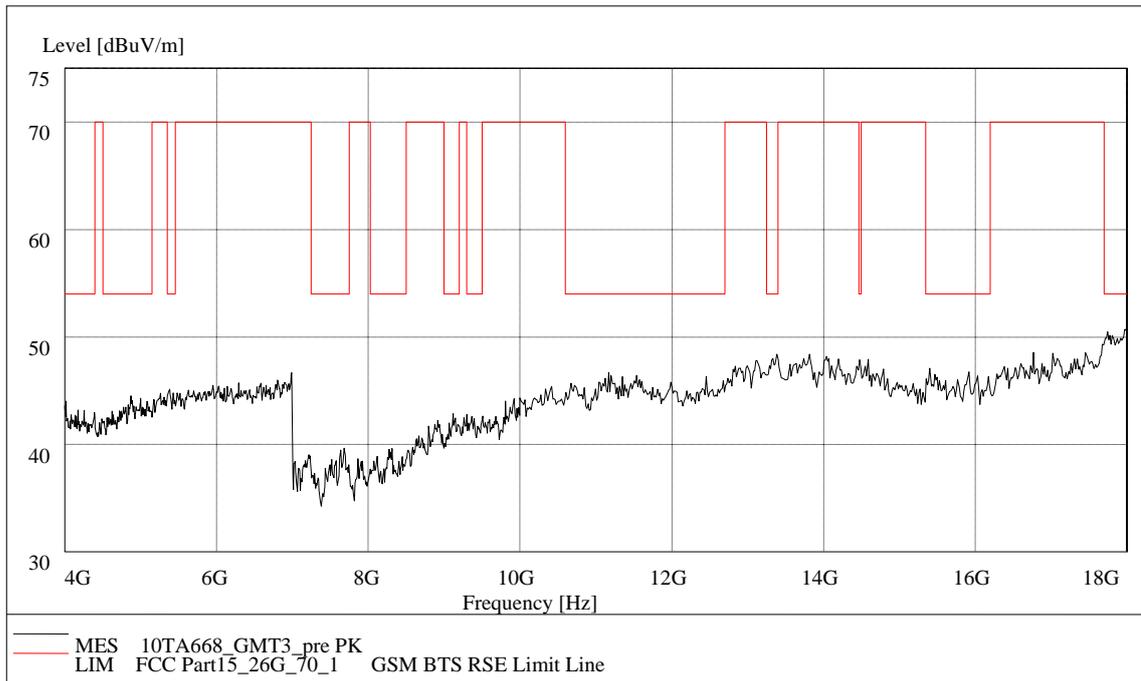


Fig. 51 Radiated Spurious Emission (802.11g, Ch6, 4 GHz-18 GHz)

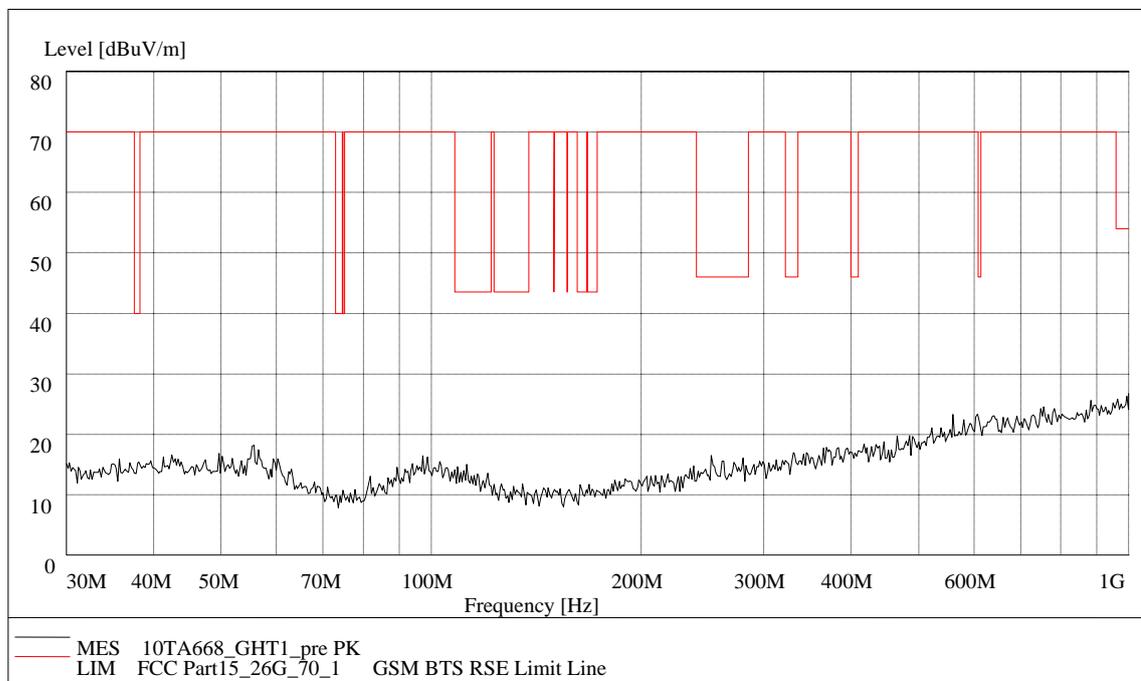


Fig. 52 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)

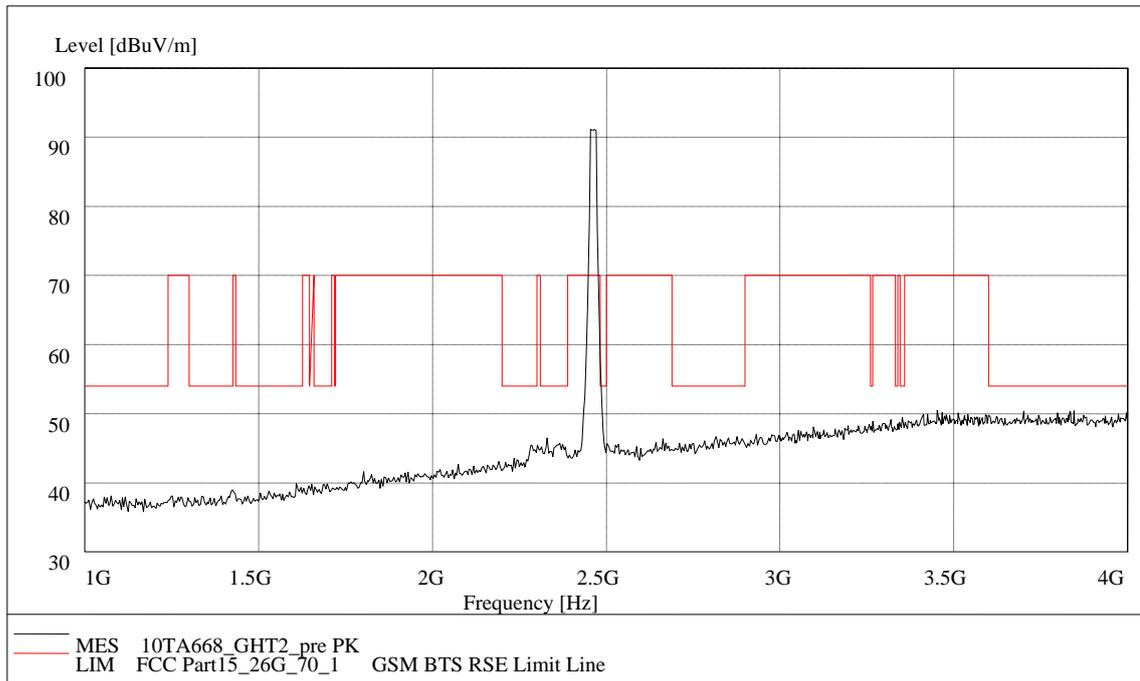


Fig. 53 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-4 GHz)

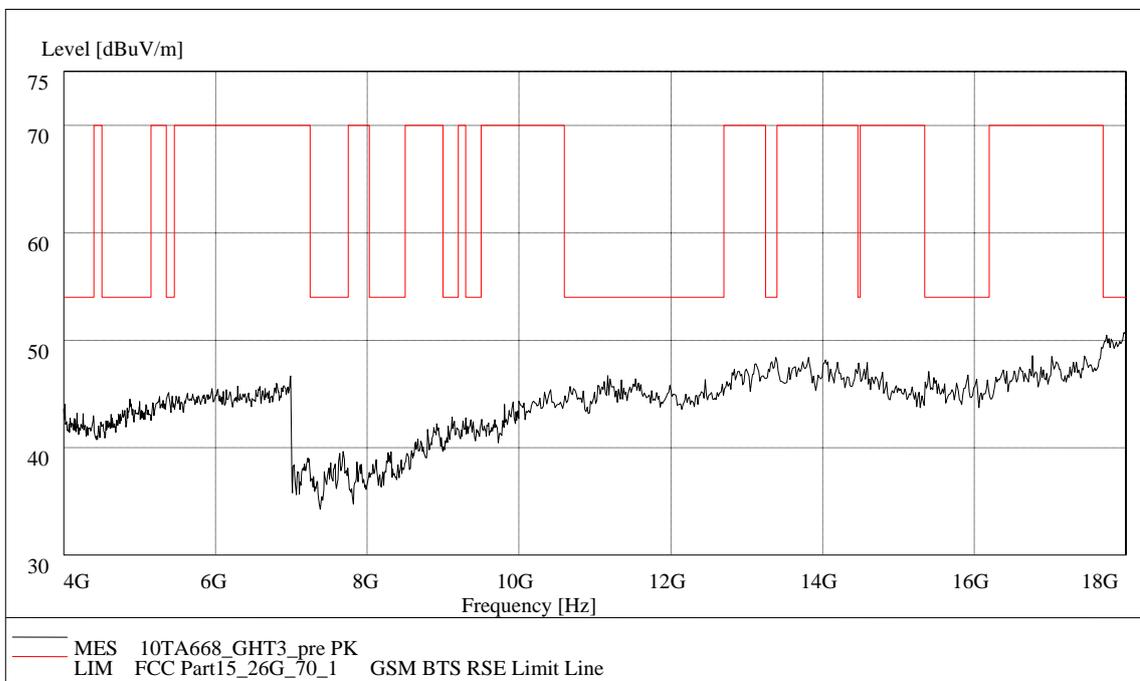
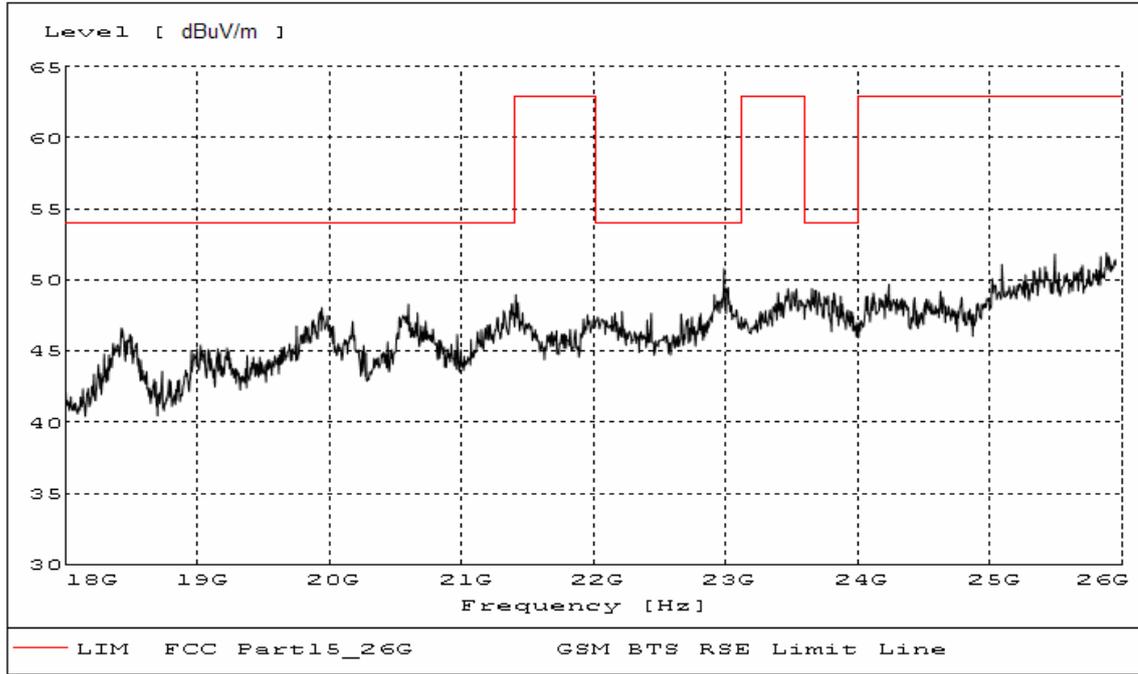
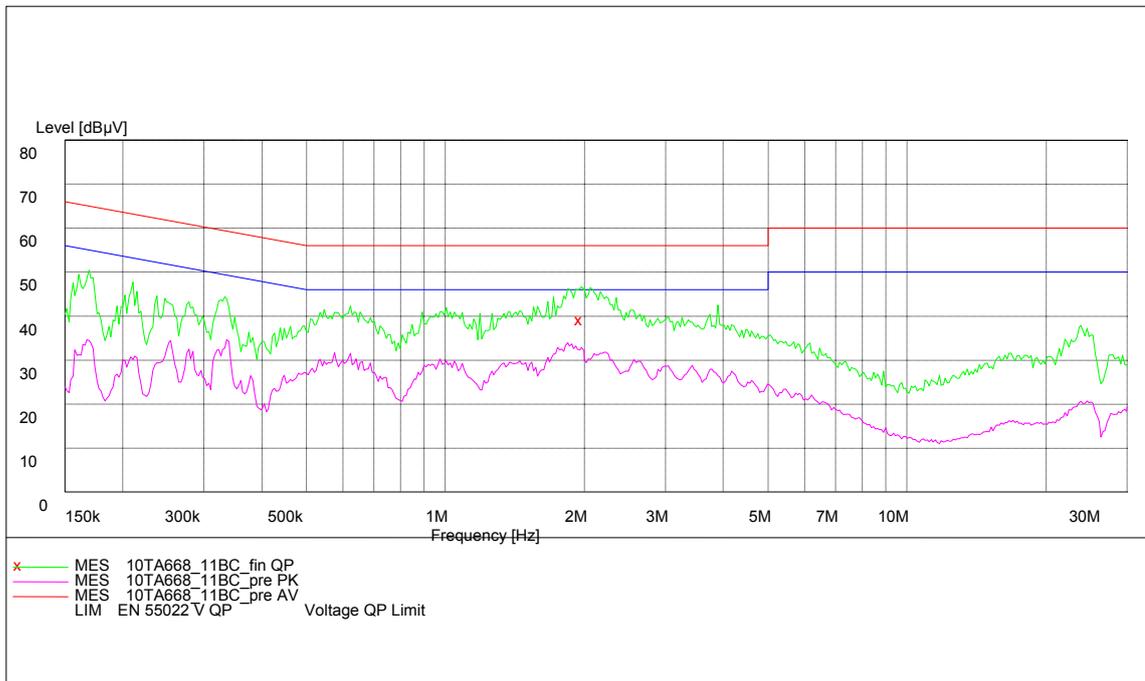


Fig. 54 Radiated Spurious Emission (802.11g, Ch11, 4 GHz-18 GHz)



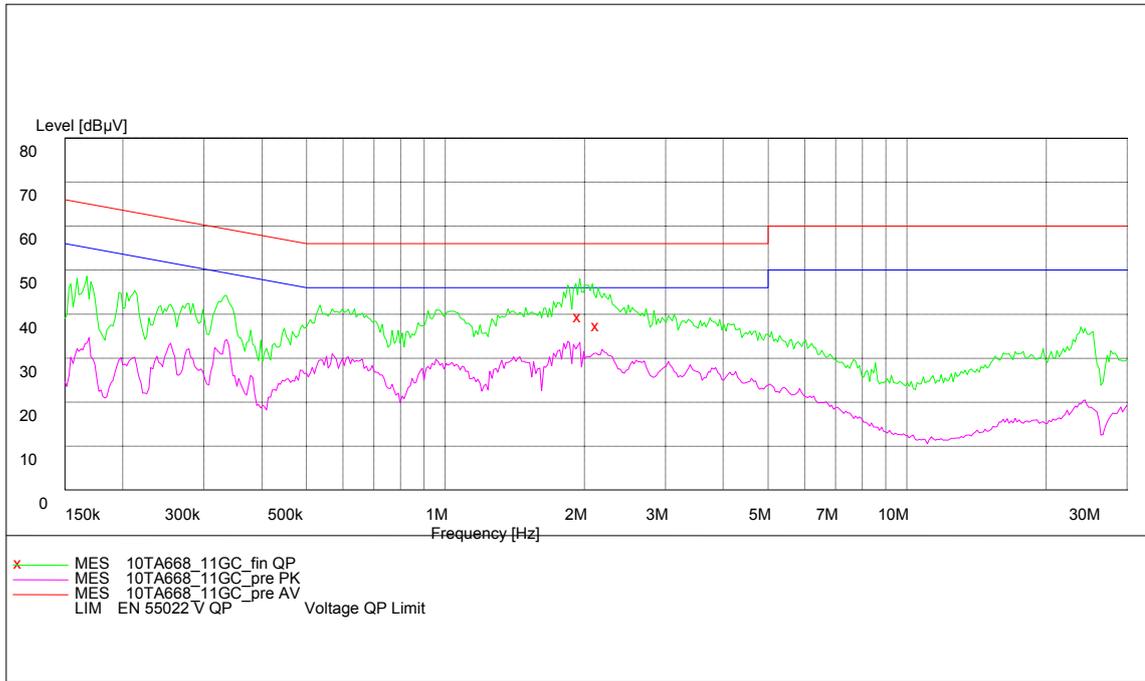
**Fig. 55 Radiated emission: 18 GHz - 26 GHz**



**Fig. 56 AC Powerline Conducted Emission - 802.11b mode**

Measurement Result: "BC\_fin QP"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
1.973909	42.10	10.1	56	13.9	L1	FLO



**Fig. 57 AC Powerline Conducted Emission - 802.11g mode**

Measurement Result: "BC\_fin QP"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
1.954365	42.40	10.1	56	13.6	L1	GND
2.144271	40.30	10.1	56	15.7	L1	GND

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