



No. DAT-P-114/01-01

# TEST REPORT

## No. 2007TAR021

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<b>Product</b>	GSM Mobile Phone
<b>Model</b>	SMT5700WOC
<b>Client</b>	Amoi Mobile Co., Ltd.

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**Telecommunication Metrology Center  
of Ministry of Information Industry**

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4. The test report shall be invalid if it is altered.
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<b>Product</b>	GSM Mobile Phone	<b>Model</b>	SMT5700WOC	
		<b>Trade mark</b>		
<b>Client</b>	Amoi Mobile Co., Ltd.			
<b>Manufacturer</b>	Amoi Mobile Co., Ltd.			
<b>Arrival Date of sample</b>	Feb 04, 2007	<b>Carrier of the samples</b>	Didehai	
<b>Quantity of the samples</b>	2	<b>Date of product</b>	/	
<b>Series number</b>	EUT1: 35414600000779 EUT2: 35414010000753			
<b>Standard(s)</b>	FCC Part 15 (10-1-06 Edition)			
<b>Conclusion</b>	<p><b>Final Judgement: Pass</b></p> <p style="text-align: right;">Date of issue: 2007-09-06</p>			
<b>Comment</b>	The test result relates only to the tested samples.			

Approved by 卢秉松 Reviewed by 宋忠文 Tested by 訾晓刚  
 (Lu Bingsong) (Song Chongwen) (Zi Xiaogang)

(Lu Bingsong- Deputy Director of the laboratory)

## **1 COMPETENCE AND WARRANTIES**

**Telecommunication Metrology Center of Ministry of Information Industry**(hereinafter **TMC**) is a test laboratory accredited by DAR (DATech) – Deutschen Akkreditierungs Rat (Deutsche Akkreditierungsstelle Technik), for the tests indicated in the Certificate No. **DAT-P-114/01-01**.

**TMC** is a test laboratory accredited by CNAL – Accreditation Certificate of China National Accreditation Board for Laboratories, for the tests indicated in the Certificate No. **L0442**.

**TMC** is FCC listed lab. FCC listed number is **733176**.

The test site in **TMC** is registered in Industry Canada. The IC registration number is **6629**.

**TMC** is a testing laboratory competent to carry out the tests described in this report.

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

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

## **2. Testing Laboratory**

### **2.1 Testing Location**

Company Name:	Telecommunication Metrology Center of Ministry of Information Industry
Address:	No 52, Huayuan beilu, Haidian District, Beijing,P.R.China
Postal Code:	100083
Telephone:	00861062303288
Fax:	00861062304793

### **2.2 Testing Environment**

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

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 26 to 1000 MHz

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

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

**Conducted chamber** did not exceed following limits along the EMC testing:

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

**Fully-anechoic chamber** (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 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 26 to 1000 MHz

## 2.3 Testing Period

Testing Start Date:	Feb 04,2007
Testing End Date:	Feb 16,2007

## 3 Applicant Information

### 3.1 Client Information

Name or Company	Amoi Mobile Co., Ltd.
Address/Post	102 Xiaguang Road, Haicang district
City	Xiamen City,
Postal Code	361022
Country	P.R.China
Telephone	86-592-6516777-3316
Fax	86-592-6516007

### **3.2 Manufacture Information**

Name or Company	Amoi Mobile Co., Ltd.
Address/Post	102 Xiaguang Road, Haicang district
City	Xiamen City,
Postal Code	361022
Country	P.R.China
Telephone	86-592-6516777-3316
Fax	86-592-6516007

## **4 Equipment Under Test (EUT) and Ancillary Equipment (AE)**

### **4.1 About EUT**

Model	SMT5700WOC
Description	GSM Mobile Phone
FCC ID	RWZ-SMT5700WOC
IMEI or SN	EUT1: 35414600000779 EUT2: 35414010000753
Hardware status	V4.0
Software status	V4.0
Frequency	2400.0MHz – 2483.5MHz for Bluetooth
Type of modulation	FHSS for Bluetooth
Number of channels	79 for Bluetooth
Antenna	Internal
Power supply	Battery or Charger (AC Adaptor)
Output power	1.1dBm maximum output power

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

<b>EUT ID</b>	<b>SN or IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	35414600000779	V4.0	V4.0
EUT2	35414010000753	V4.0	V4.0

## **5 SUMMARY OF TEST RESULTS**

The construction of the mobile phone ensures that no antenna other than that furnished by the responsible party shall be used with the device.

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

Test result has been derived from test report number 2007TAR003 (6711report) because the transmitter component are identical for both 6711 and SMT5700WOC.

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<b>Abbreviations used in this clause:</b>	
P	Pass
NA	Not applicable
F	Fail

<b>Clause</b>	<b>List</b>	<b>Clause in FCC rules</b>	<b>Verdict</b>
1	POWER OUTPUT	15.247(b)	P
2	OCCUPIED BANDWIDTH	15.247(a)	P
3	BAND EDGE COMPLIANCE	15.247(d)	P
4	CONDUCTED SPURIOUS EMISSIONS	15.247(d)	P
5	CONDUCTED EMISSIONS	15.107/207	P
6	TIME OF OCCUPANCY(DWELL TIME)	15.247(a)	P
7	NUMBER OF HOPPING FREQUENCIES	15.247(a)	P
8	CARRIER FREQUENCY SEPARATION	15.247(a)	P
9	RADIATED SUPRIOS EMISSIONS	15.247(d)	P

## **6 MAIN TEST INSTRUMENTS**

<b>NO.</b>	<b>Description</b>	<b>TYPE</b>	<b>SERIES NUMBER</b>	<b>MANUFACTUR E</b>	<b>CAL DUE DATE</b>
1	Test Receiver	ESS	847151/015	R&S	2007-10-30
2	Test Receiver	ESI40	831564/002	R&S	2008-2-11
3	BiLog Antenna	3142B	9908-1403	EMCO	2008-1-16
4	BiLog Antenna	VUL9163	9163 175	Schwarzbeck	2009-9-19
5	Signal Generator	SMT06	831285/005	R&S	2007-12-26
6	Signal Generator	SMP04	100070	R&S	2008-4-20
7	LISN	ESH2-Z5	829991/012	R&S	2008-8-13
8	Spectrum Analyzer	E4440A	MY41000262	Agilent	2008-4-18
9	Universal Radio Communication Tester	CMU200	100680	R&S	2008-8-23
10	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2008-3
11	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2008-3
12	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2008-3
13	Climatic chamber	SH-241	92003546	ESPEC	2008-5-15
14	Spectrum Analyzer	FSU26	200030	R&S	2008-6-19
15	Bluetooth Tester	MT8852A	6K0002698	Anritsu	2009-3-19

**ANNEX A MEASUREMENT RESULTS**

**A.1 OUTPUT POWER –Bluetooth (§15.247(b))**

**A.1.1 conducted**

**A.1.1.1 Method of measurement**

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

**Limits**

Frequency band	FCC
5725-5850MHz	1 Watt(30 dBm)for systems with >75 hopping channels
2400-2483.5MHz	1 Watt(30 dBm)for systems with >75 non-overlapping hopping channels 0.125 Watt(21 dBm)for all other hopping systems, but at least 15 hopping channels
902-928MHz	1 Watt(30 dBm)for systems with >50 hopping channels 0.25 Watt(24 dBm)for all other hopping systems, but at least 25 hopping channels

**A.1.1.2 Measurement result**

Test conditions	Channel 0		Channel 39		Channel 78	
	[dBm]	W	[dBm]	W	[dBm]	W
T nom=25°C V nom=3.7V	0.3	1.07x10 <sup>-3</sup>	0.7	1.17 x10 <sup>-3</sup>	1.1	1.29x10 <sup>-3</sup>

**A.2 20dB bandwidth-Bluetooth (§15.247(a))**

**A.2.1 Method of measurement**

The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

**Limits**

Frequency band	FCC and IC
5725-5850MHz	<u>≤1MHz</u>
2400-2483.5MHz	<u>≤</u> carrier frequencies separation for hopping systems with max cond. power of 1 Watt <u>≤</u> 1.5 of the carrier frequencies separation for hopping systems with max cond. power of 0.125 Watt
902-928MHz	<250kHz for systems with <u>≥</u> 50 hopping channels 250kHz <u>≤</u> 500kHz for all other hopping systems

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## A.2.2 Test results

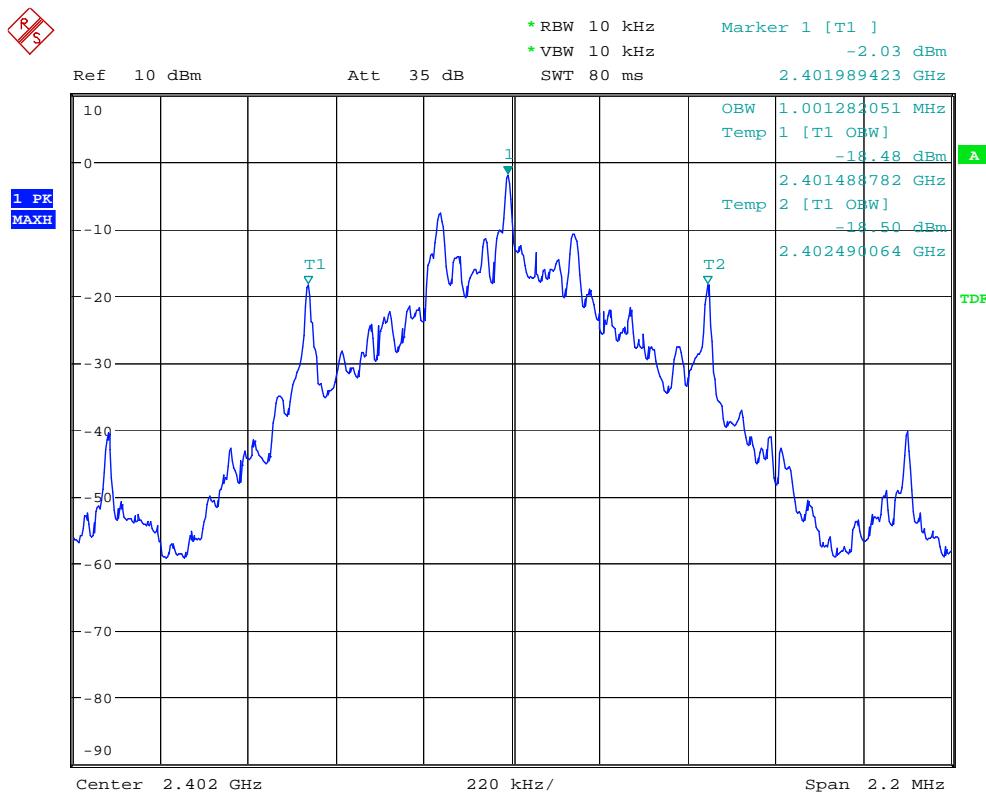
Test conditions	Channel 0	Channel 39	Channel 78
	kHz	kHz	kHz
T nom=25°C V nom=3.7V	1001.282	1001.282	1004.808

System receiver input bandwidth:

The manufacturer declares that the receiver input bandwidth matches to the bandwidth of the transmitter signal.

**See attached diagrams**

**Channel 0, 2402MHz-Occupied Bandwidth (-20dBc BW)**



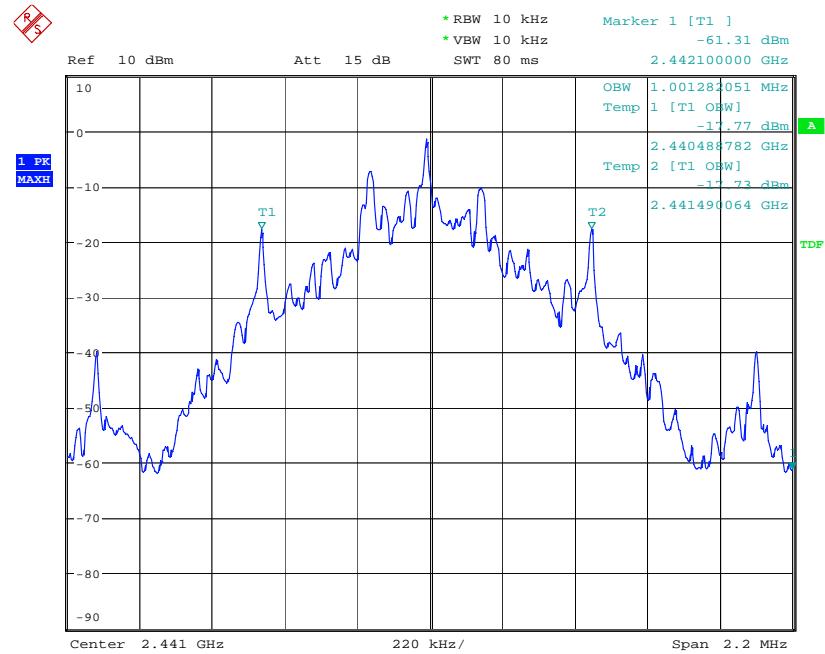
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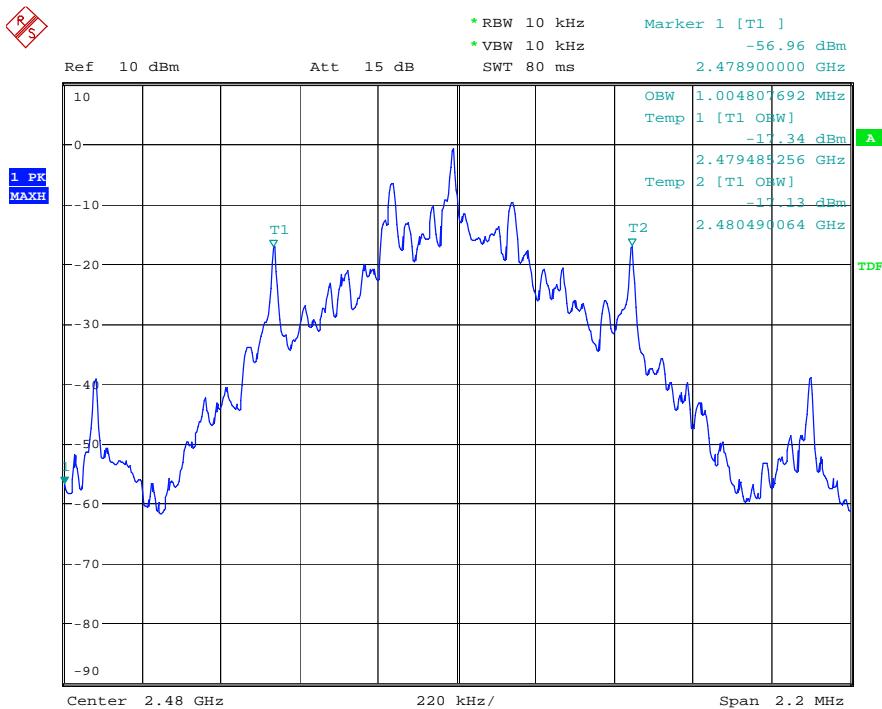
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## Channel 39, 2441MHz-Occupied Bandwidth (-20dBc BW)



Date: 15.FEB.2007 06:41:25

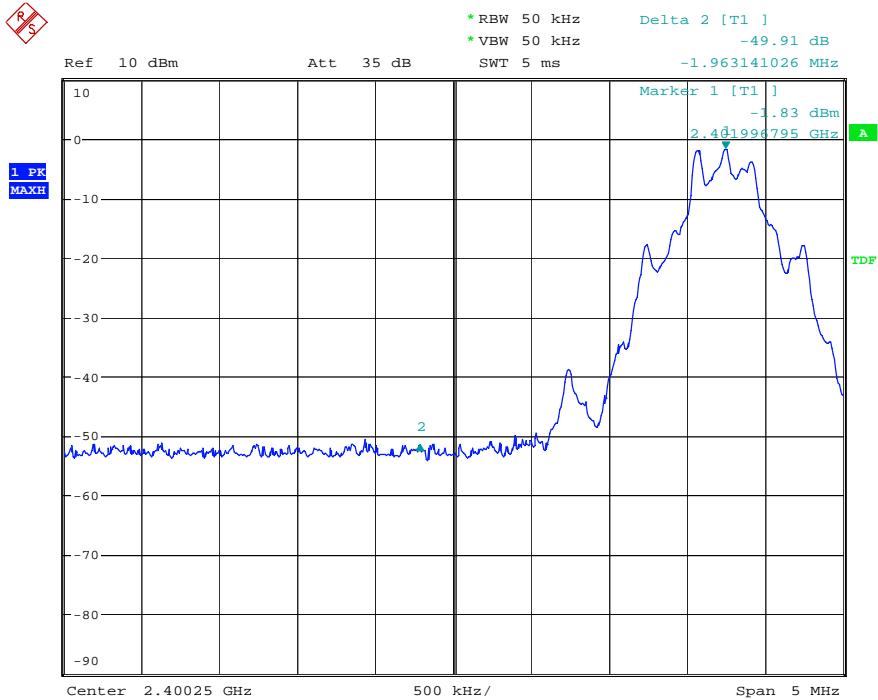
## Channel 78, 2480MHz-Occupied Bandwidth (-20dBc BW)



Date: 15.FEB.2007 06:36:32

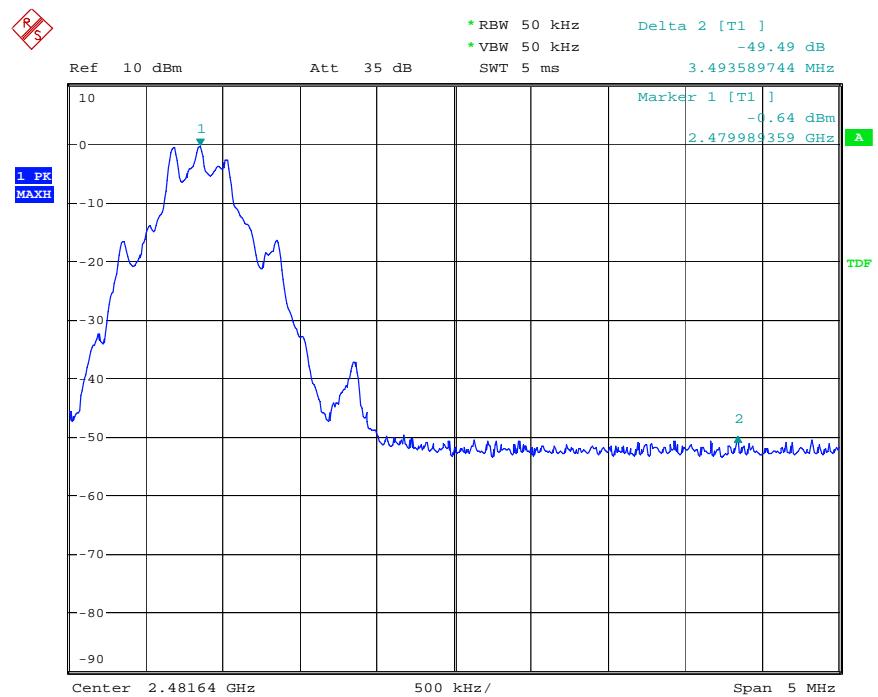
**A.3 BAND EDGE COMPLIANCE-Bluetooth (§15.247(c))**

**A.3.1 Channel 0 / 2402MHz Single frequency mode**



Date: 15.FEB.2007 07:33:29

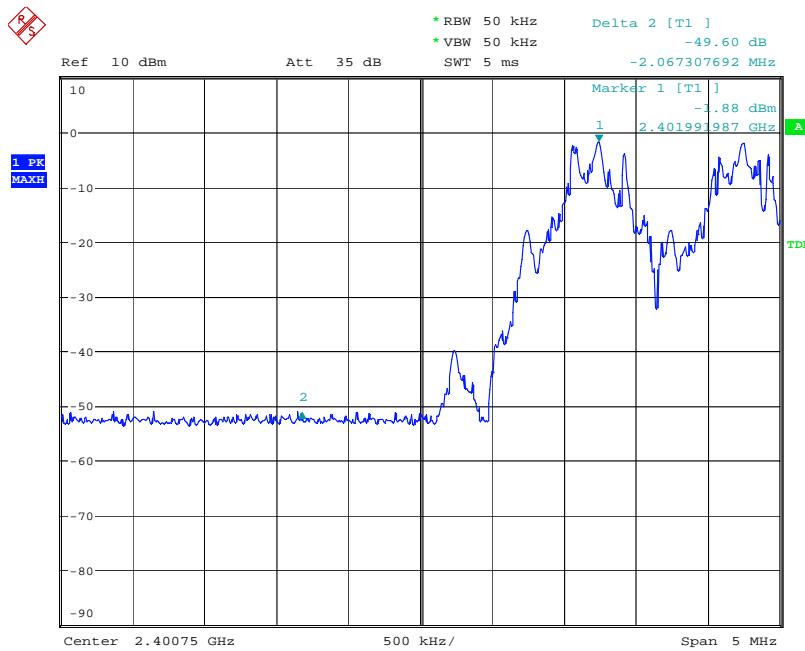
**A.3.2 Channel 78 / 2480MHz Single frequency mode**



Date: 15.FEB.2007 07:35:14

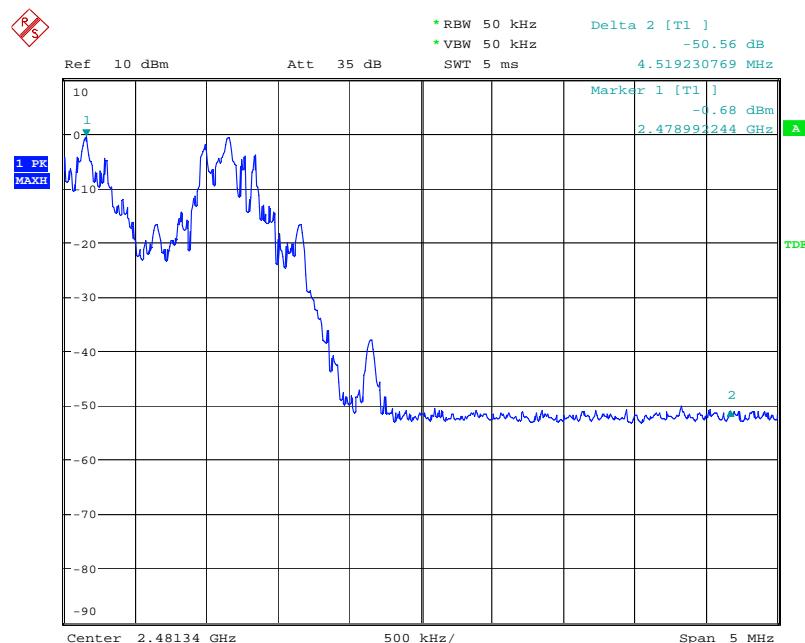
**A.3.3 Band-edge compliance of RF conducted emissions**

**Channel 0 /2402MHz Hopping mode**



Date: 15.FEB.2007 07:39:24

**A.3.4 Band-edge compliance of RF conducted emissions- Channel 78/2480MHz Hopping mode**



Date: 15.FEB.2007 07:42:29

#### **A.4 CONDUCTED SPURIOUS EMISSION-Bluetooth (§15.247(d))**

##### **A.4.1 Method of measurement**

The EUT is connected to the spectrum analyzer via a low loss cable. If the EUT is not equipped with an antenna connector, a temporary antenna connector has to be installed. The EUT is switched on, the hopping function is disabled.

The analyzer setting was as following:

Frequency range	RES bandwidth		Video bandwidth	
	Pk	Avg	Pk	Avg
f<1GHz	100kHz	100kHz	100kHz	100kHz
f>1GHz	1MHz	1MHz	1MHz	1MHz

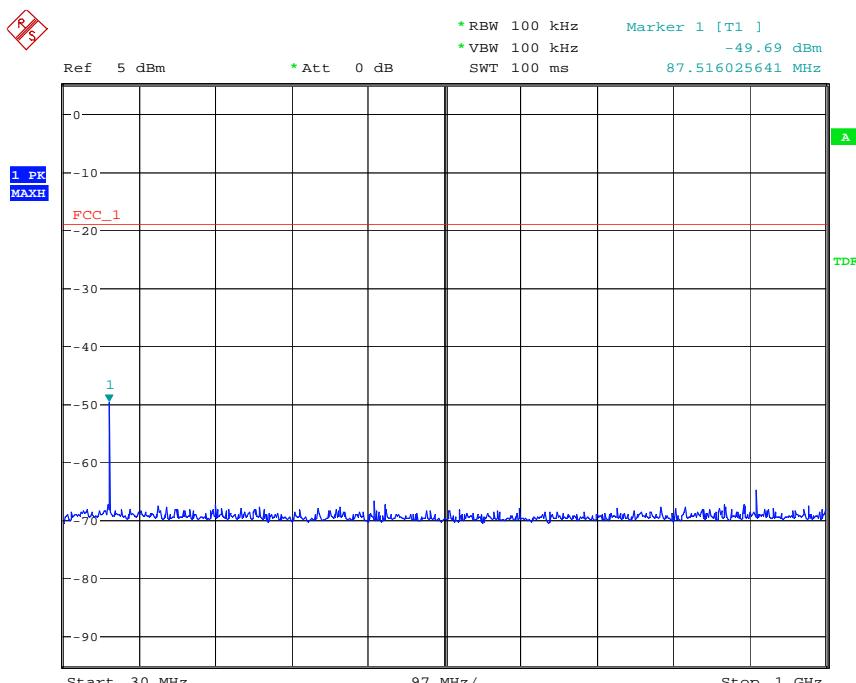
##### **A.4.2 Limits**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

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)).

##### **A.4.3 Measurement result**

###### **A.4.3.1 Channel 0/2402MHz: 30MHz - 1GHz**

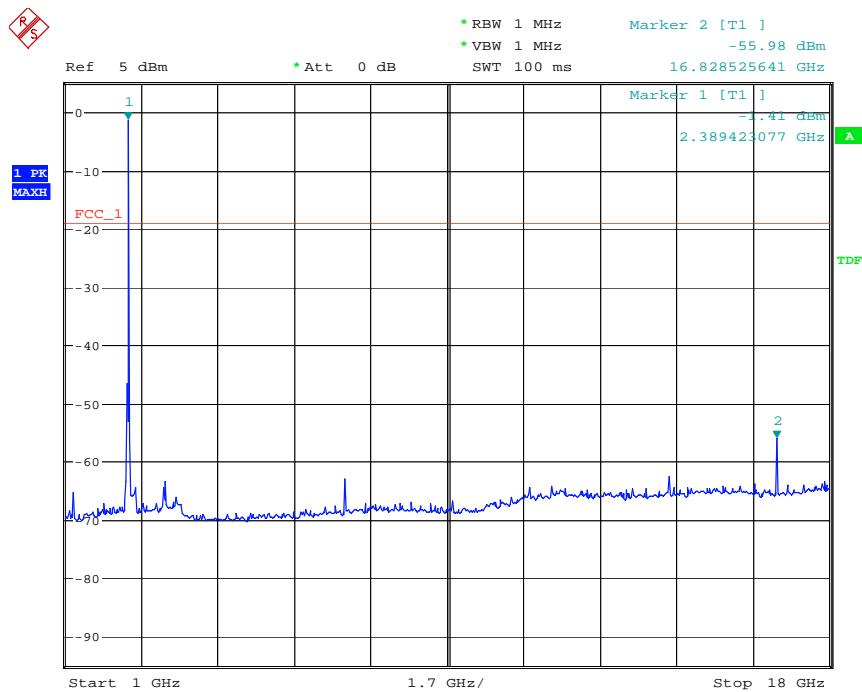


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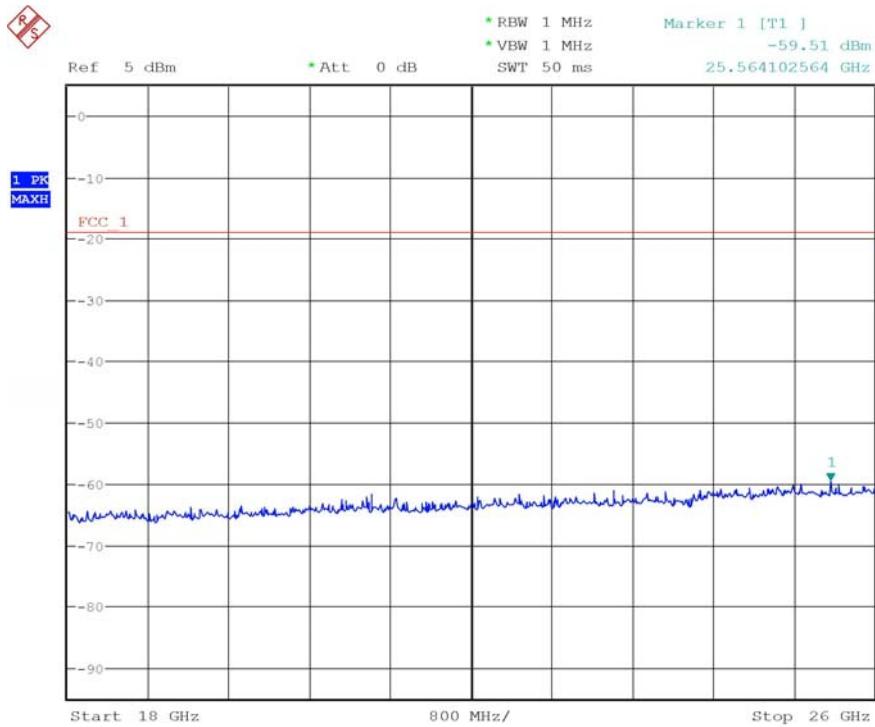
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## A.4.3.2 Channel 0/2402MHz: 1GHz – 18GHz



Date: 15.FEB.2007 08:08:49

## A.4.3.3 Channel 0/2402MHz: 18GHz-26GHz

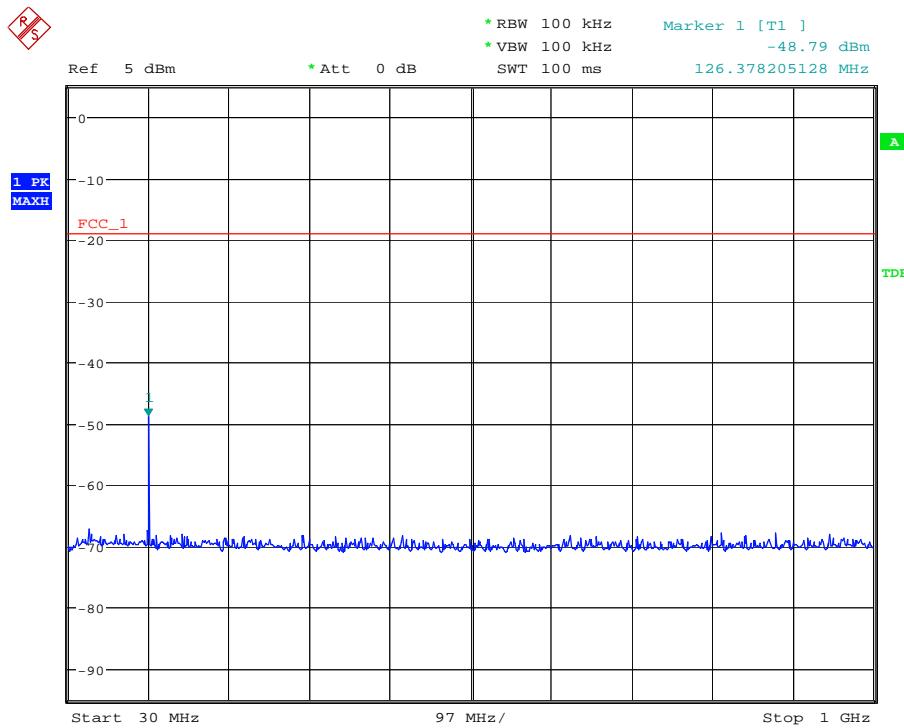


# Telecommunication Metrology Center of Ministry of Information Industry

No. 2007TAR021

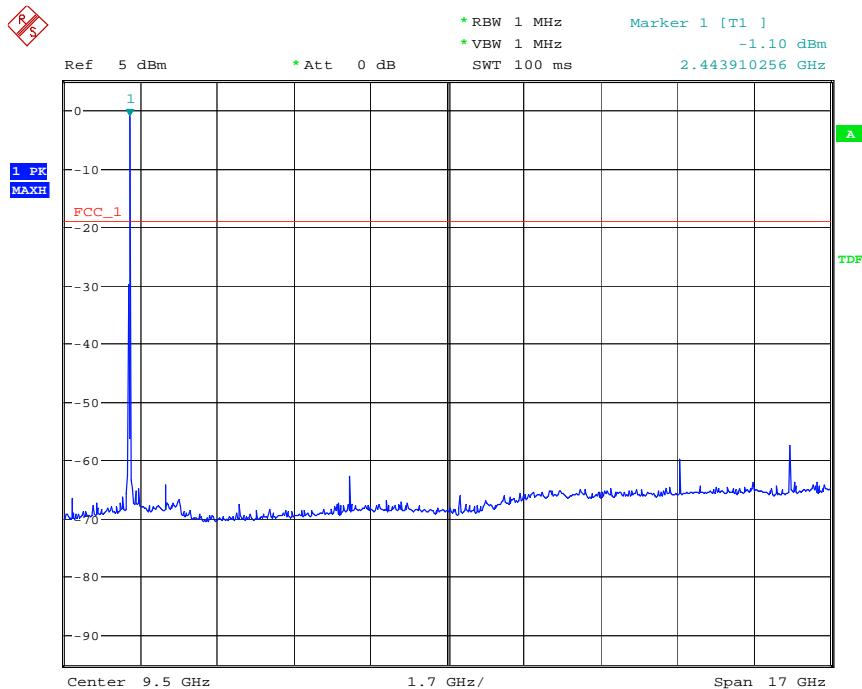
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## A.4.3.4 Channel 39/2441MHz: 30MHz - 1GHz



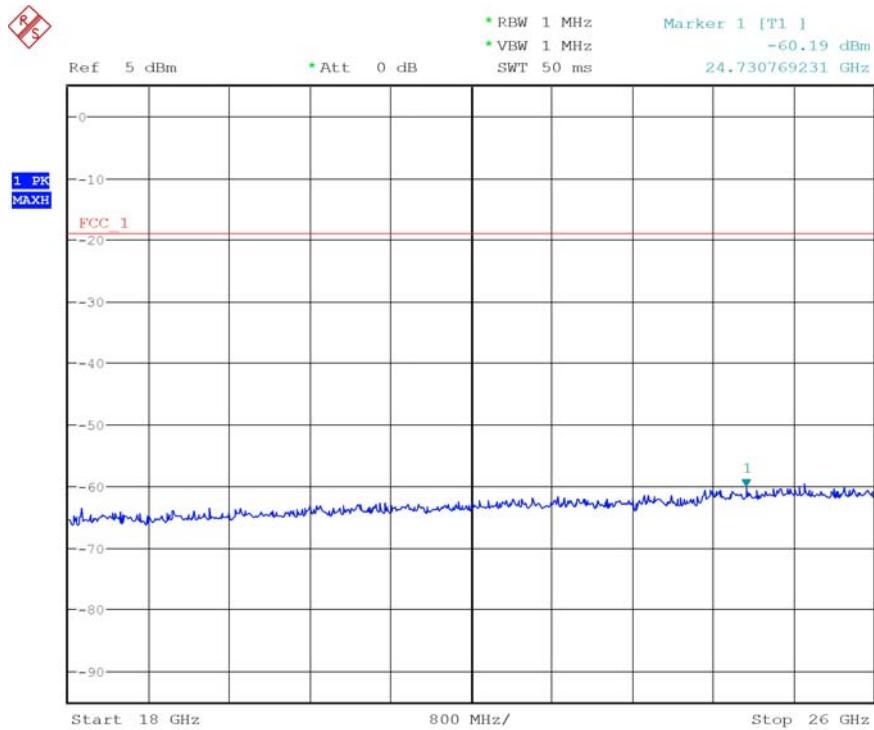
Date: 15.FEB.2007 08:12:20

## A.4.3.5 Channel 39/2441MHz: 1GHz - 18GHz

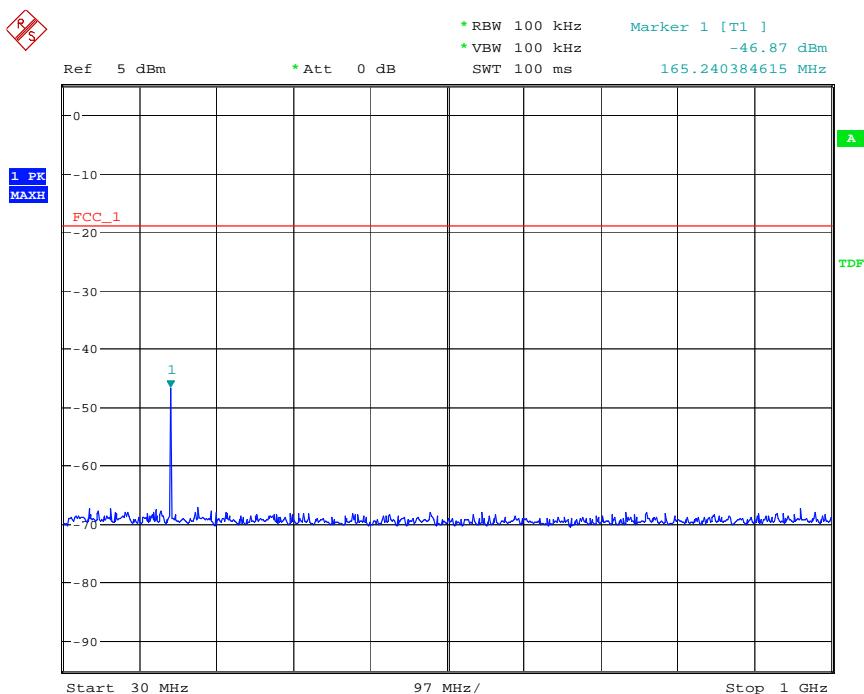


Date: 15.FEB.2007 08:11:44

**A.4.3.6 Channel 39/2441MHz: 18GHz - 26GHz**



**A.4.3.7 Channel 78/2480MHz: 30MHz - 1GHz**

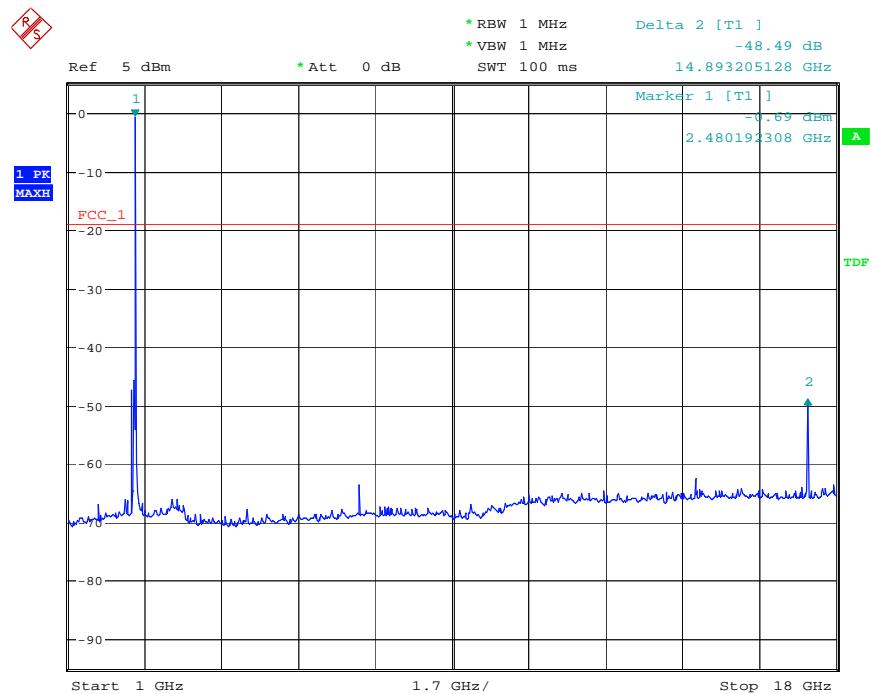


# Telecommunication Metrology Center of Ministry of Information Industry

No. 2007TAR021

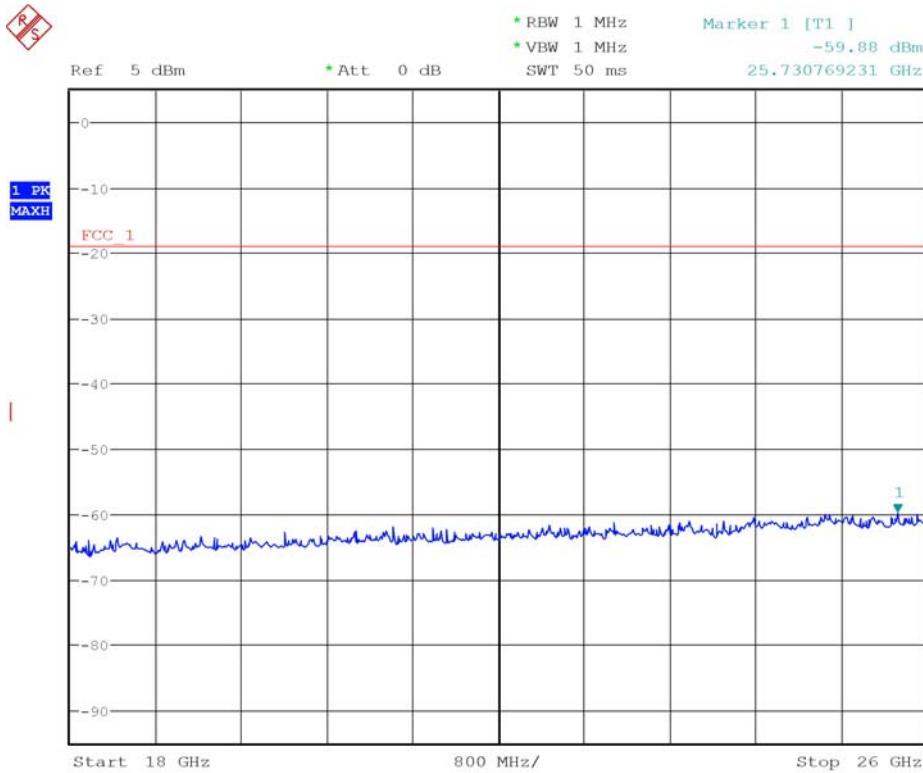
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## A.4.3.8 Channel 78/2480MHz: 1GHz - 18GHz



Date: 15.FEB.2007 08:15:05

## A.4.3.9 Channel 78/2480MHz: 18GHz - 26GHz

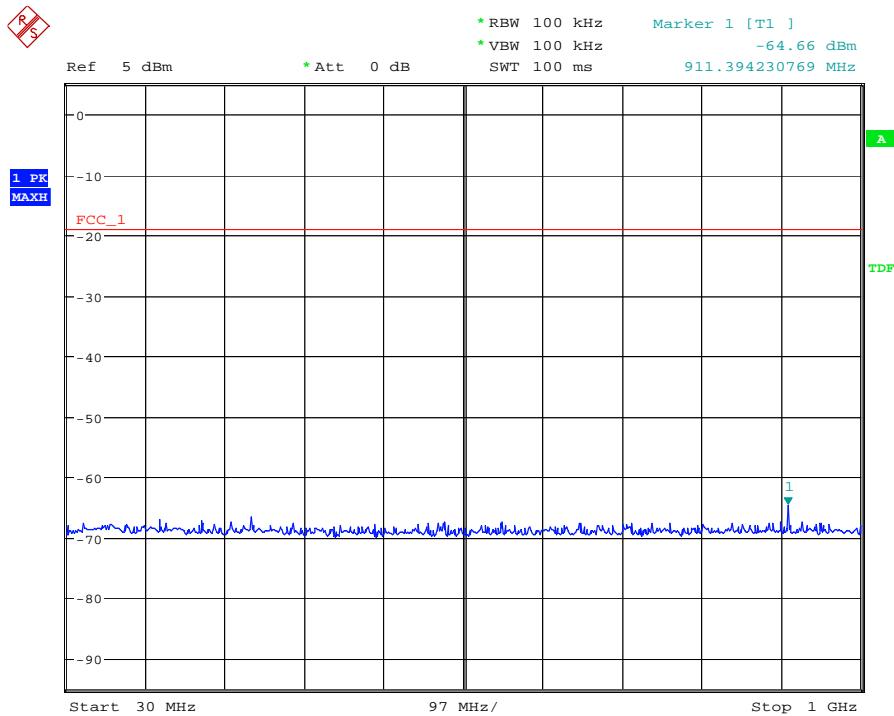


# Telecommunication Metrology Center of Ministry of Information Industry

No. 2007TAR021

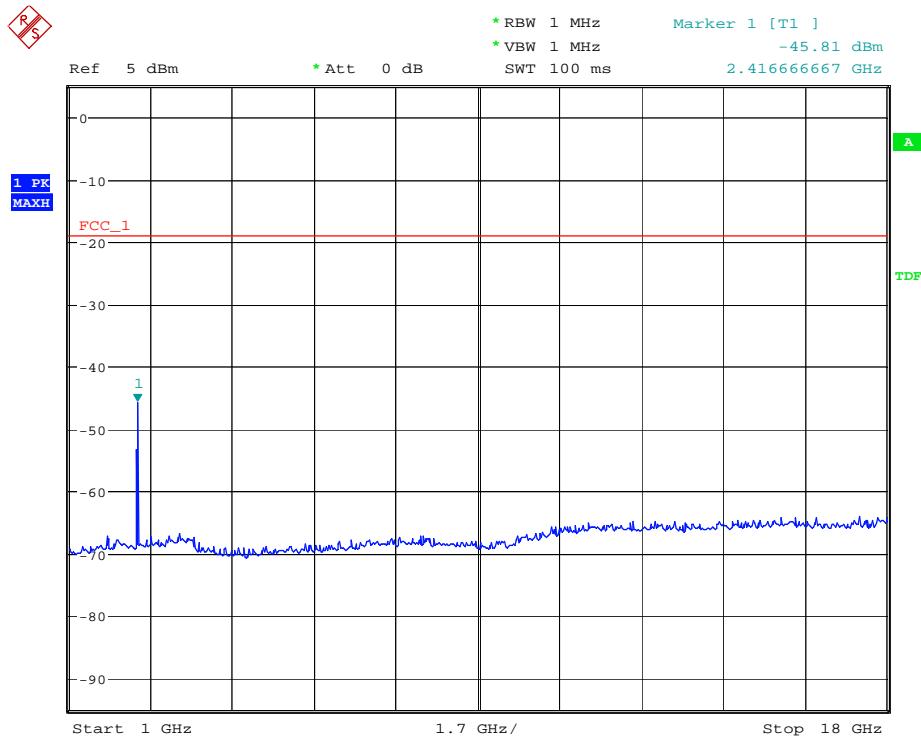
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## A.4.3.10 Idle mode: 30MHz - 1GHz



Date: 15.FEB.2007 08:19:36

## A.4.3.11 Idle mode: 1GHz - 18GHz



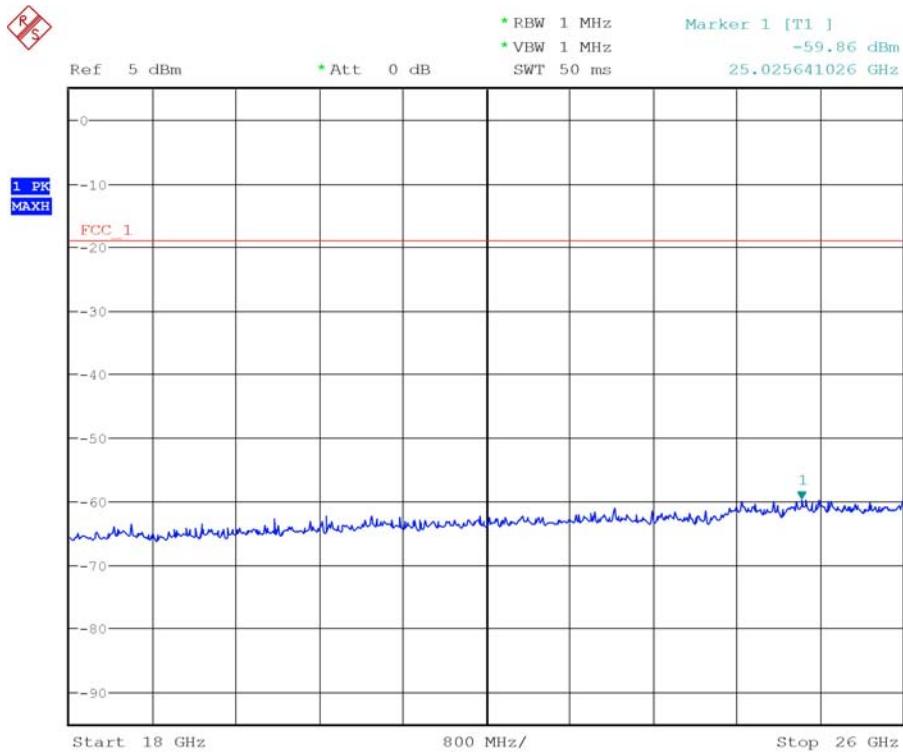
Date: 15.FEB.2007 08:20:44

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## A.4.3.12 Idle mode: 18GHz - 26GHz



Date: 2.MAR.2007 02:24:43

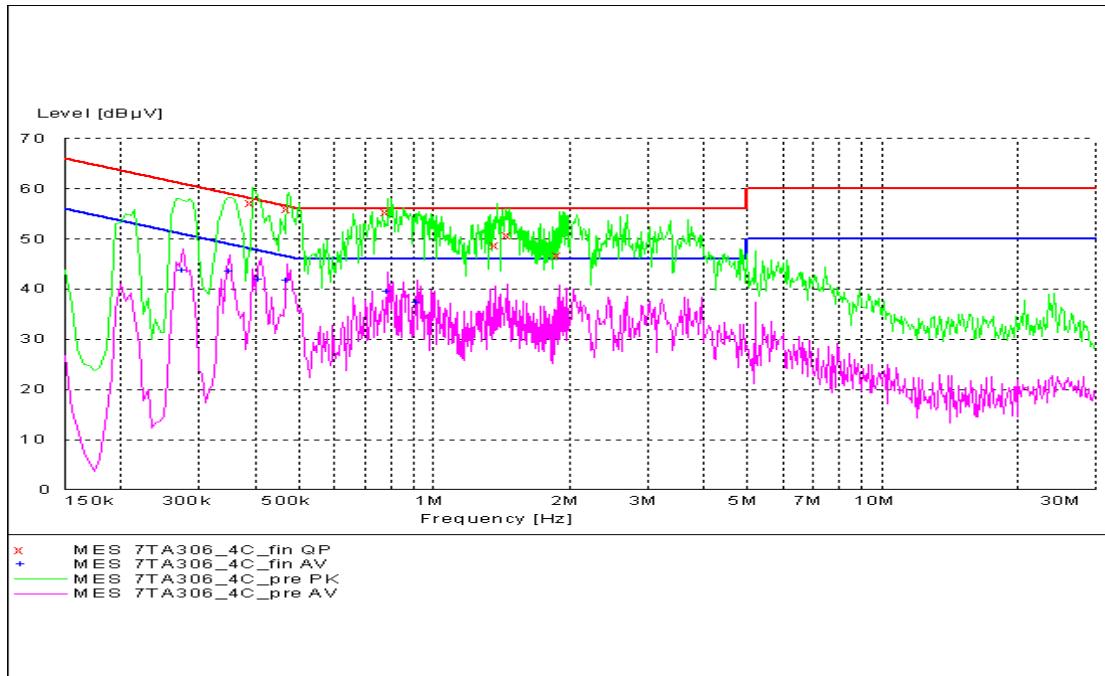
## A.5 CONDUCTED EMISSION      (§15.107/§207)

### A.5.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi -Peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

\* Decreases with logarithm of the frequency

**A.5.2 Measurement result**



**MEASUREMENT RESULT: "7TA306\_4C\_fin QP"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.395000	57.10	10.1	58	0.8	L1	FLO
0.475000	55.90	10.1	56	0.5	L1	FLO
0.790000	55.40	10.1	56	0.6	L1	FLO
1.385000	48.70	10.1	56	7.3	N	GND
1.470000	50.70	10.1	56	5.3	L1	GND
1.910000	46.70	10.1	56	9.3	N	GND

**MEASUREMENT RESULT: "7TA306\_4C\_fin AV"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Line	PE
0.275000	43.80	10.1	51	7.1	L1	GND
0.350000	43.50	10.1	49	5.5	L1	GND
0.410000	42.00	10.1	48	5.6	L1	GND
0.470000	41.60	10.1	47	4.9	L1	GND

**A.6 Time of occupancy (dwell time)      (§15.247(a))**

**A6.1 Method of measurement**

The EUT has its hopping function enabled.

Spectrum analyzer settings:

Span: zero span, centered on hopping channel

RBW: 1MHz

VBW: >RBW

Sweep: as necessary to capture the entire dwell time per hopping channel

Detector: peak

Trace: max hold

Packet type: DH1, DH3, DH5

Limits

Frequency band	FCC
5725-5850MHz	<u>≤0.4s</u> at measurement period of 30 seconds
2400-2483.5MHz	<u>≤0.4s</u> multiplied by the number of hopping channels employed
902-928MHz	<u>≤0.4s</u> at measurement period of 20 seconds for max 250kMz 20dB BW allowed <u>≤0.4s</u> at measurement period of 10 seconds for max 500kMz 20dB BW allowed

**A.6.2 Test results**

Test conditions	Operating mode	Measurement period	Time of occupancy
		[s]	[ms]
T nom=25°C V nom=3.7V	normal transmitting (DH1)	31.6	132.8
	normal transmitting (DH3)	31.6	267.4
	normal transmitting (DH5)	31.6	310.7
	inquiry mode	12.8	48.64

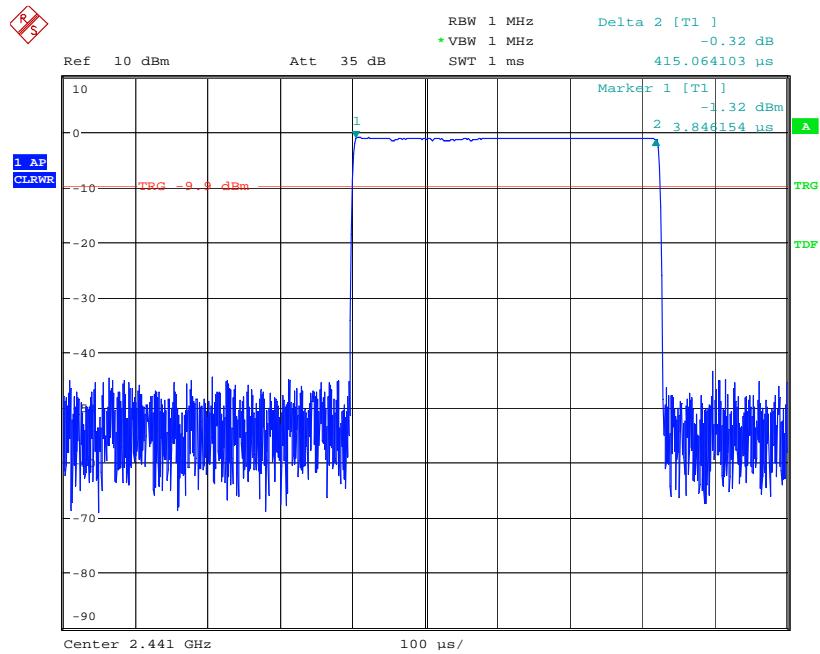
**A.6.2.1 Time of occupancy (dwell time)**

**A.6.2.1.1 DH1 Packet**

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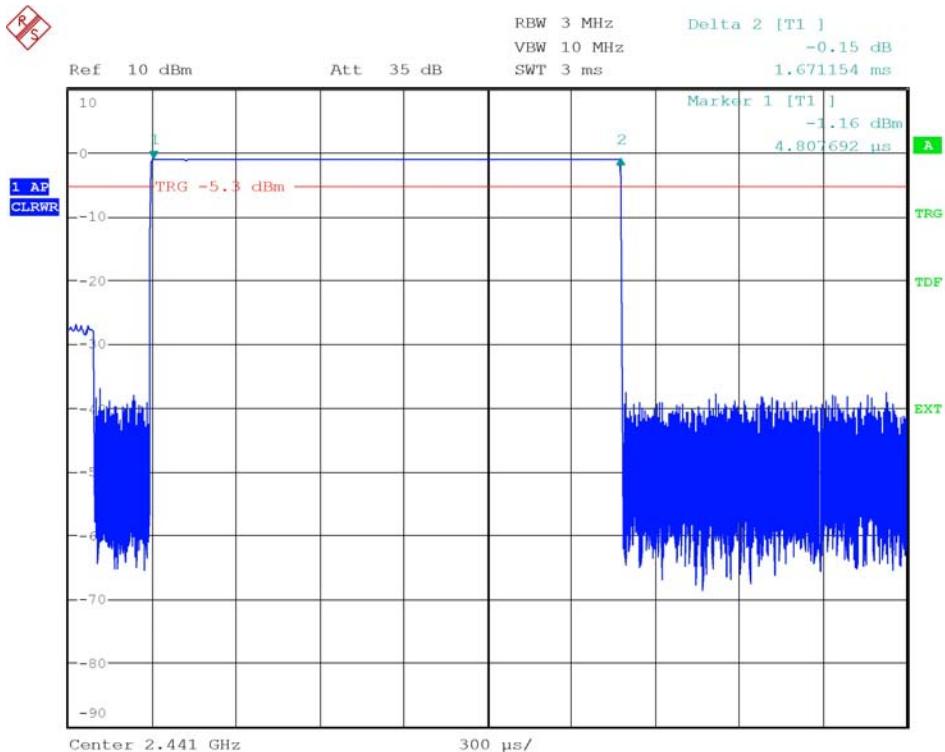
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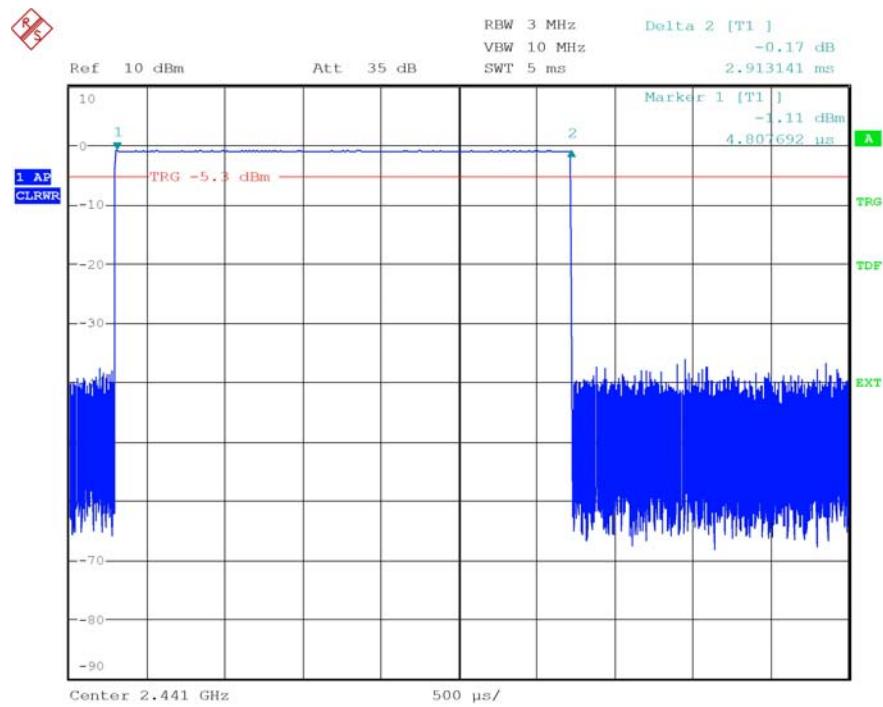
$$0.415(\text{ms}) * (1600/(2*79)) * 31.6 = 132.8\text{ms}$$

## A.6.2.1.2 DH3 Packet



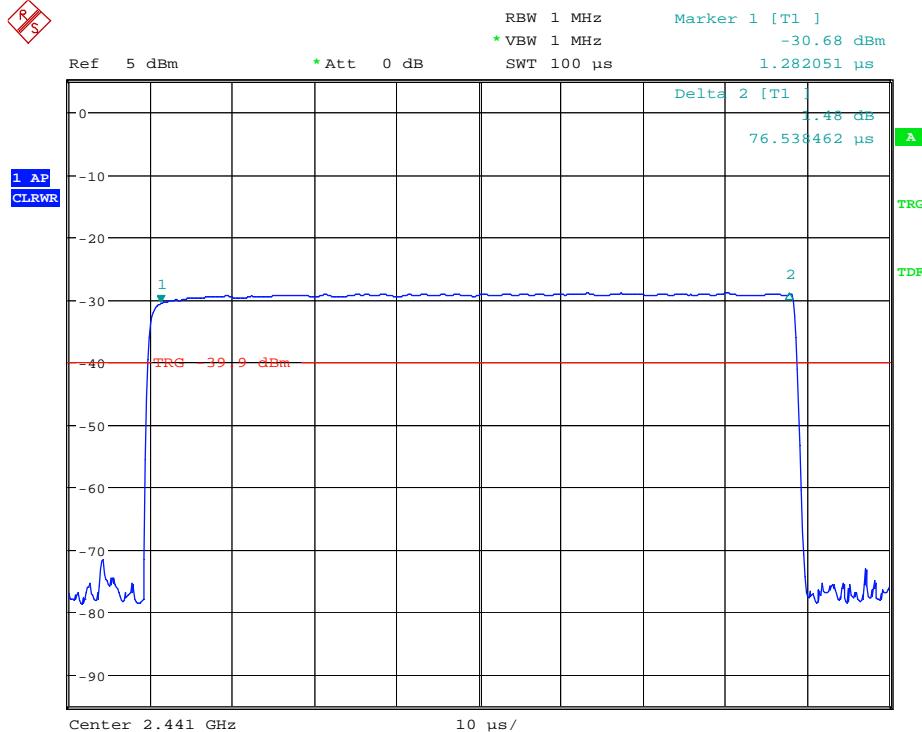
$$1.671(\text{ms}) * (1600/(4*79)) * 31.6 = 267.4\text{ms}$$

**A.6.2.1.3 DH5 Packet**



$$2.913(\text{ms}) * (1600/(6*79)) * 31.6 = 310.7 \text{ ms}$$

**A.6.2.2 Time of occupancy inquiry**



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$$0.07653(\text{ms}) * (3200/(2*32)) * 12.8 = 48.64 \text{ ms}$$

**A.7 Number of hopping channels      (§15.247(a))**

**A.7.1 Method of measurement**

According to FCC rules part 15 subpart C 15.247 frequency hopping systems operating in the 2400-2483.5MHz and 5725-5850MHz bands shall use at least 75 hopping frequencies.

According to FCC 00-312 appendix B systems in the 2400-2483.5MHz band may utilize hopping channels whose 20dB bandwidth is greater than 1MHz provide the systems use at least 15 non-overlapping channels.

**A.7.2 Limits**

Frequency band	FCC
5725-5850MHz	<u>≥75</u> hopping channels
2400-2483.5MHz	<u>≥75</u> hopping channels for $>0.125$ Watt <u>≥15</u> hopping channels for $\leq0.125$ Watt
902-928MHz	<u>≥50</u> hopping channels for $>0.25$ Watt <u>≥25</u> hopping channels for $\leq0.25$ Watt

**A.7.3 Test results**

Test conditions	Operating mode	Number of channel
T nom=25°C V nom=3.7V	Normal transmitting	79
	Inquiry mode	32

**A.8 Carrier frequency separation      (§15.247(a))**

**A.8.1 Method of measurement**

Carrier frequency separation was measured with modulation (declared by manufacturer)

**A.8.2 Limits**

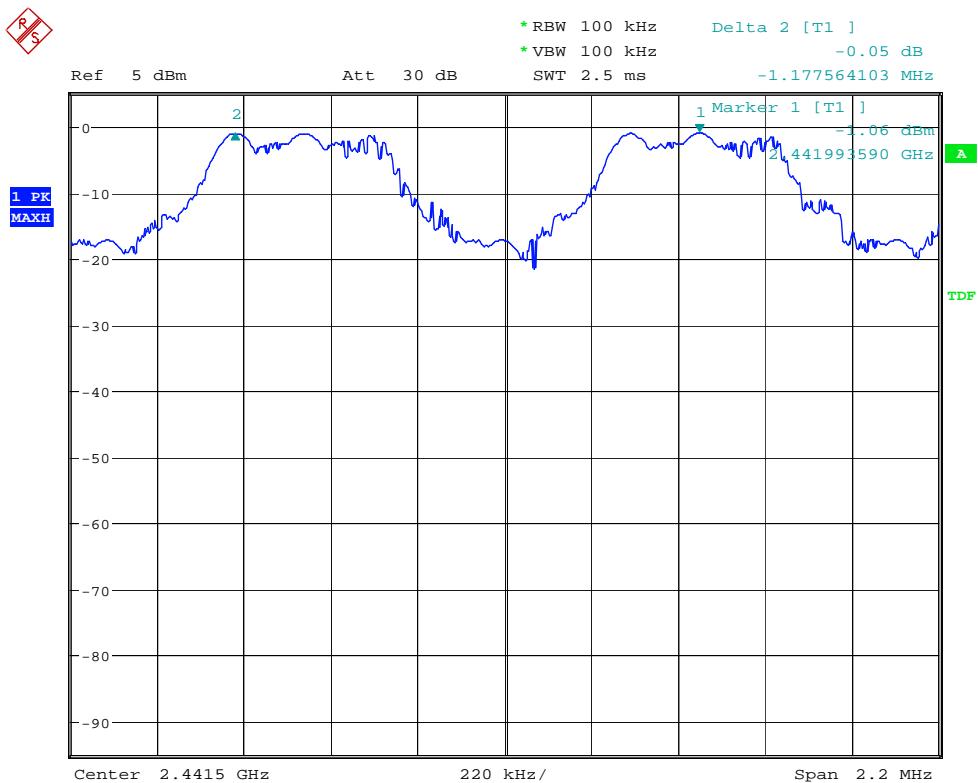
Frequency band	FCC
5725-5850MHz	Minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater, but $\leq1$ MHz
2400-2483.5MHz	Minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater Minimum of 25kHz or 2/3 of the 20dB bandwidth of the hopping channel, whichever is greater, for $P_{out} \leq 0.125W$
902-928MHz	Minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater

**A.8.3 Test results**

Test conditions	Channel 39	Channel Separation
	[GHz]	[kHz]
T nom=25°C V nom=3.7V	2.441	1178

See attached diagrams

**A.8.3.1 Carrier frequency separation -Channel.:39/40/2441/2442MHz**



**A.9 Radiated Spurious Emission-Bluetooth (&15.247,&15.205,&15.209,&15.35)**

**A.9.1 method of measurement**

The radiated spurious emission in Bluetooth operating mode was measured using peak detector with modulation (declared by the applicant).

**A.9.2 limit**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

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)).

**Limit in restricted band**

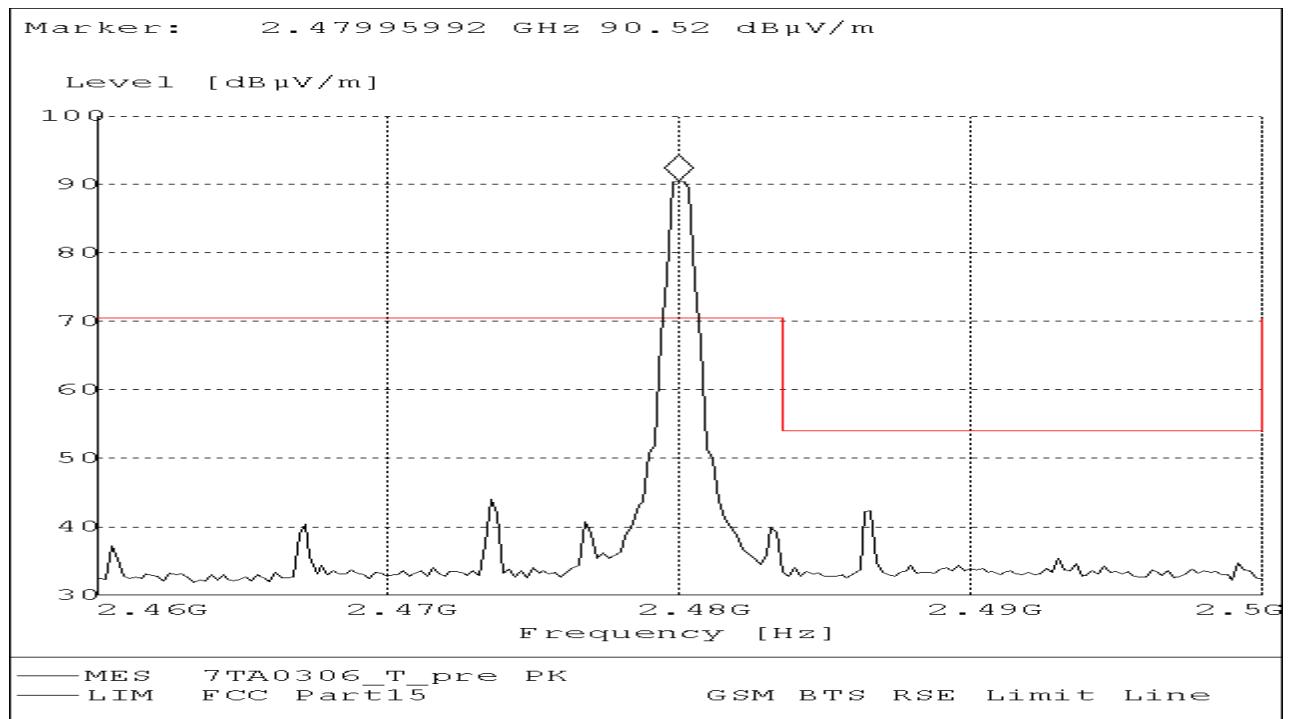
Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

**Calculation of limit**

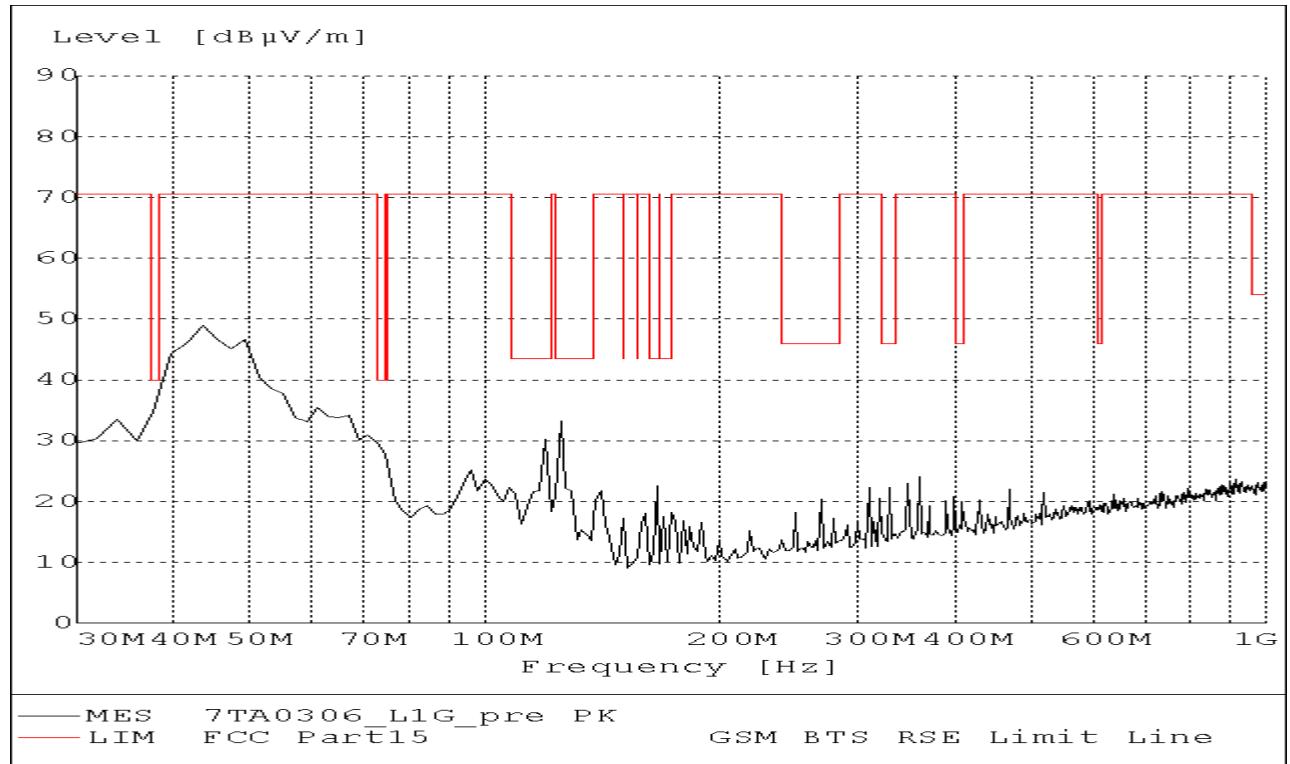
Limit=90.52dBuV/m-20dB=70.52dBuV/m.

**A.9.3 Measurement result**

**A.9.3.1 carrier power**

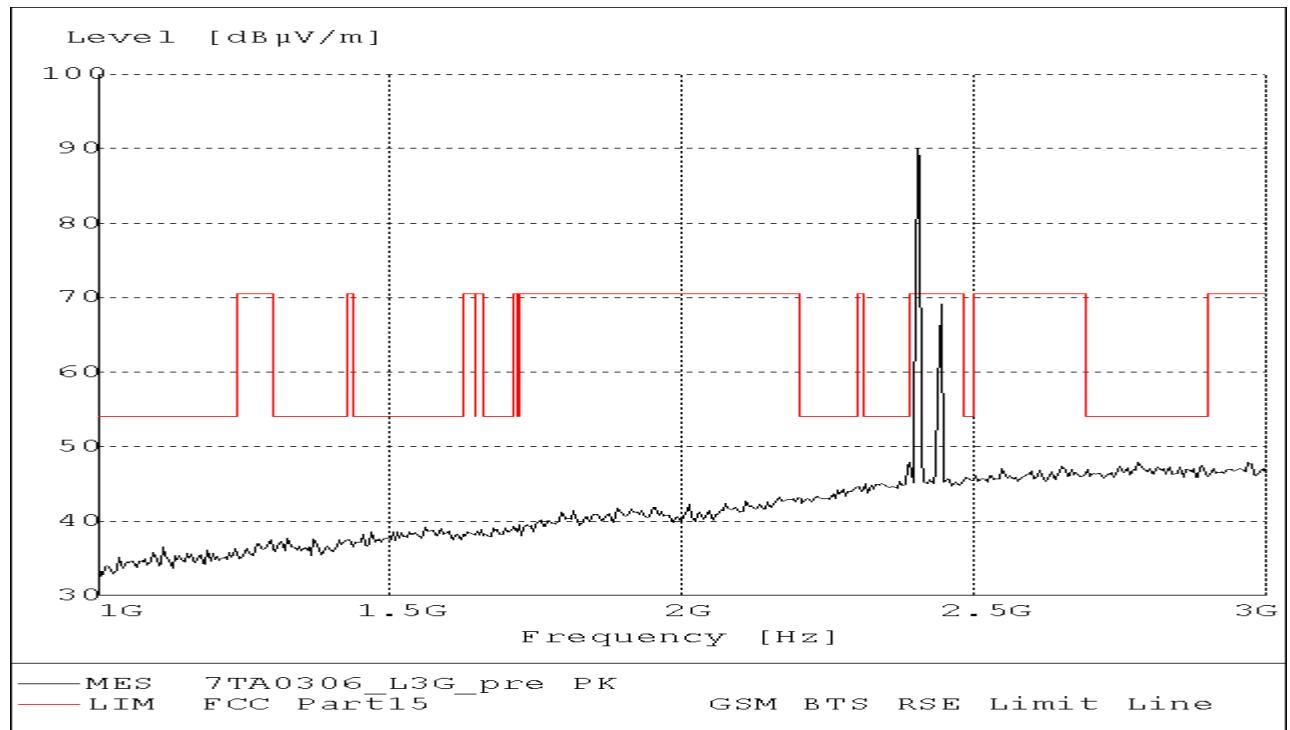


**A.9.3.2 30MHz-1GHz - Channel 2402MHz**

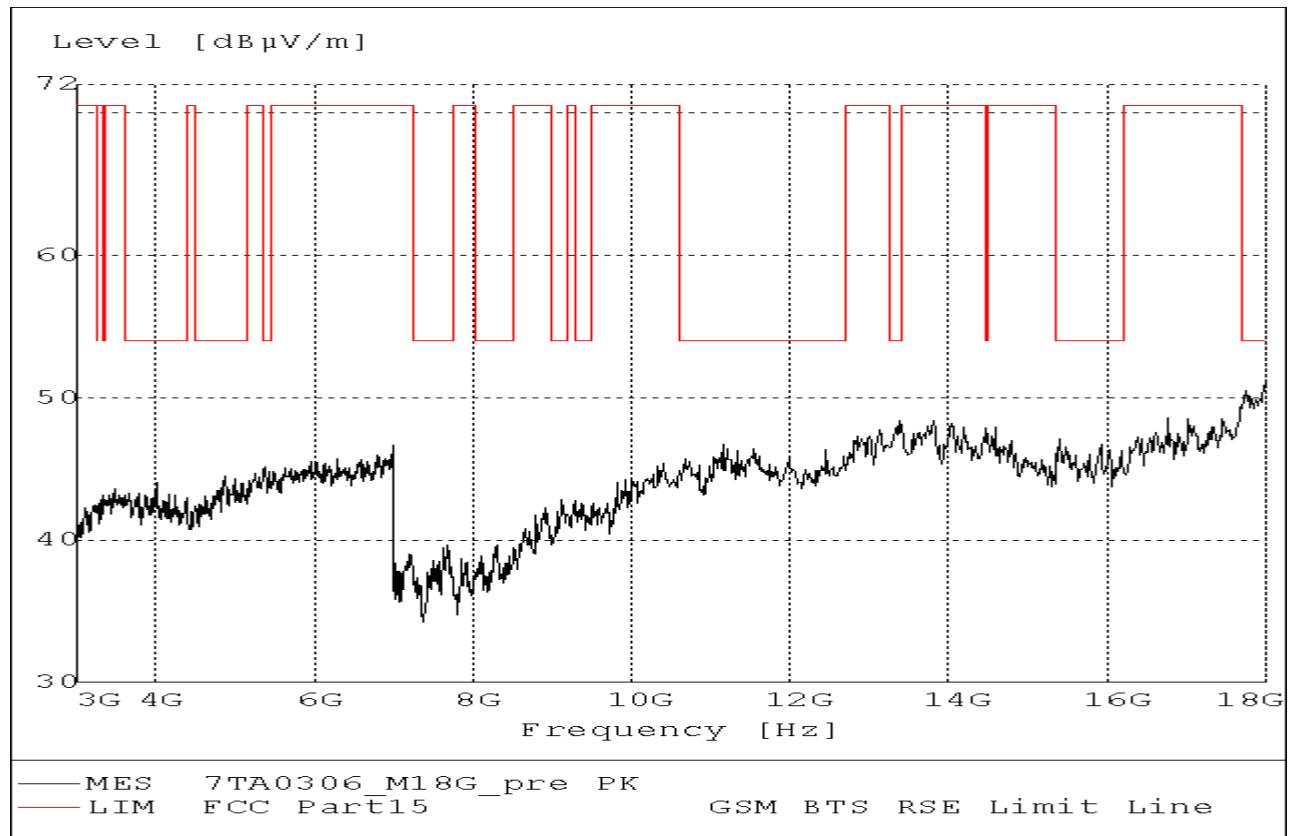


**A.9.3.3 1GHz-3GHz - Channel 2402MHz**

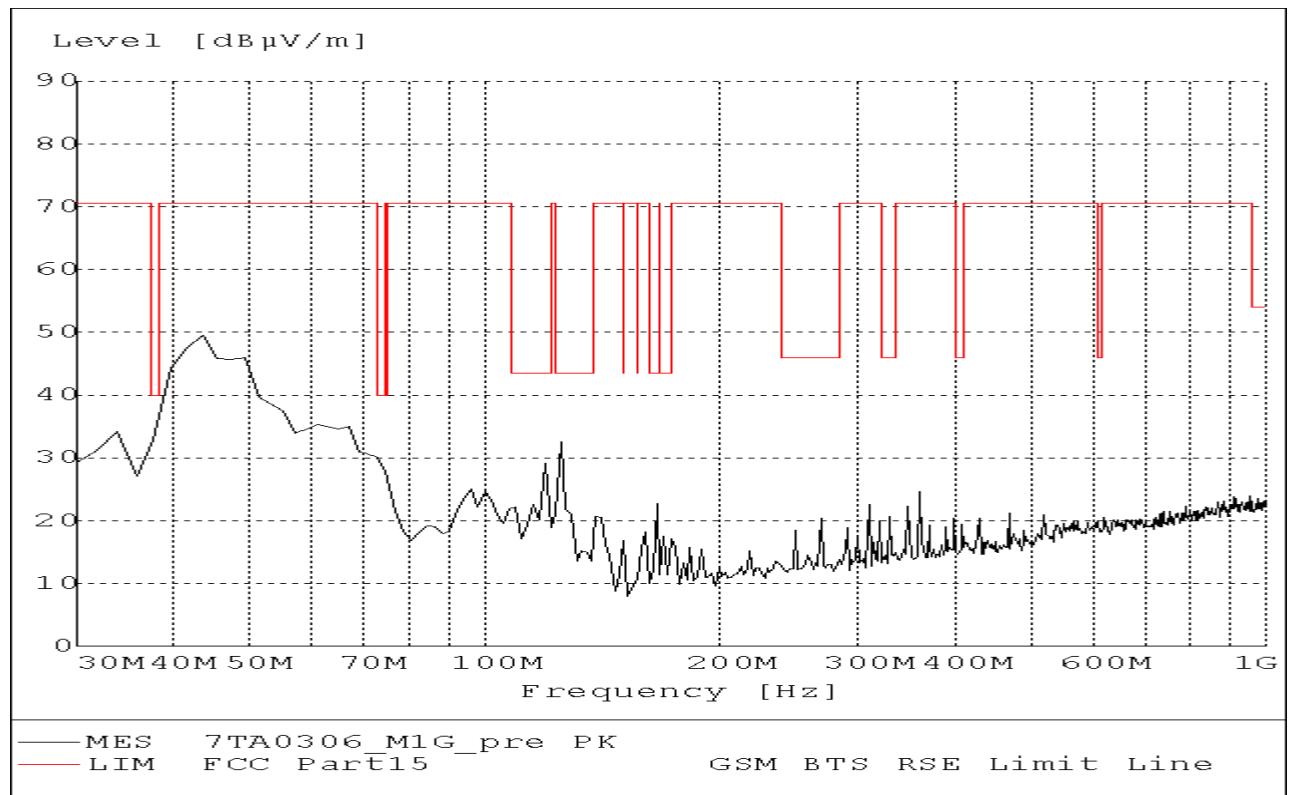
**Note: the peak above the limit is carrier power.**



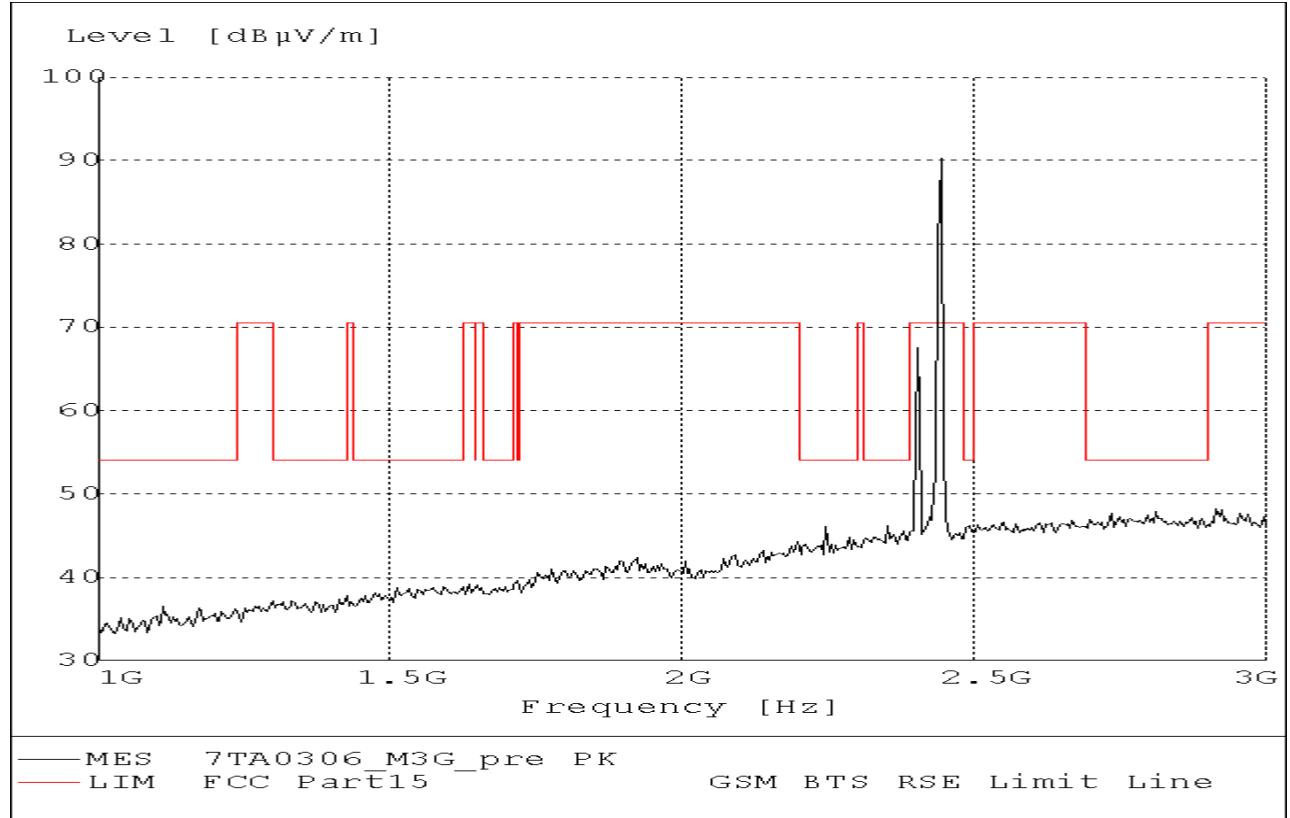
**A.9.3.4 3GHz-18GHz - Channel 2402MHz**



A.9.3.5 30MHz-1GHz - Channel 2441MHz

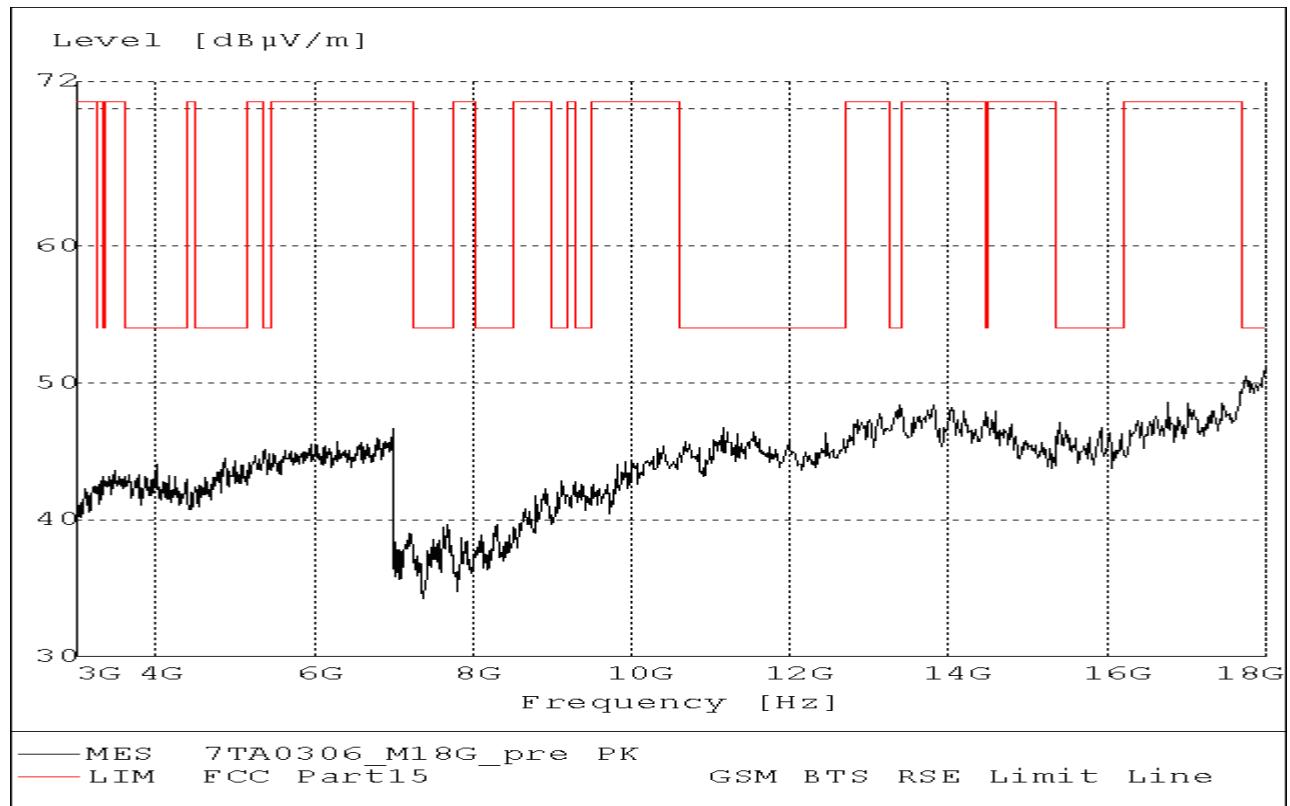


A.9.3.6 1GHz-3GHz - Channel 2441MHz

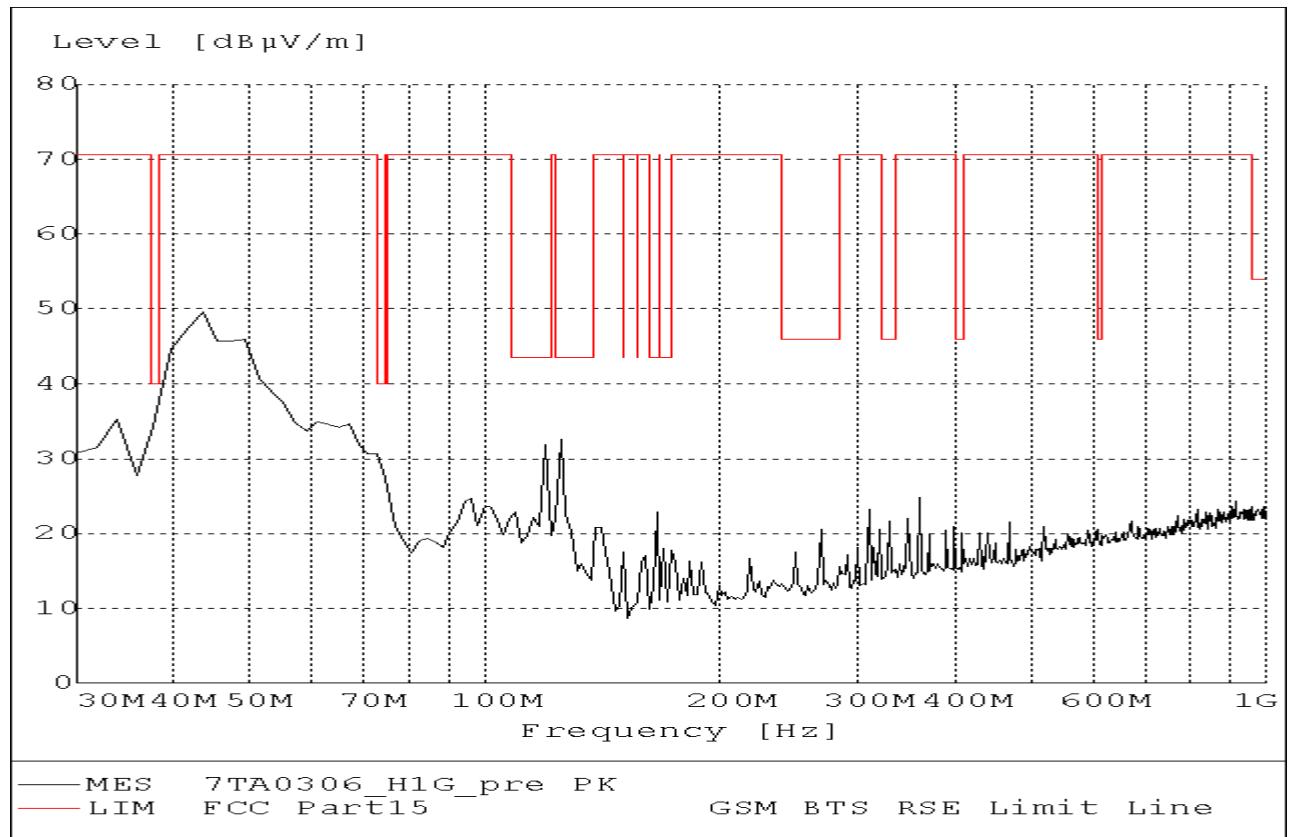


Note: the peak above the limit is carrier power

A.9.3.7 3GHz-18GHz - Channel 2441MHz

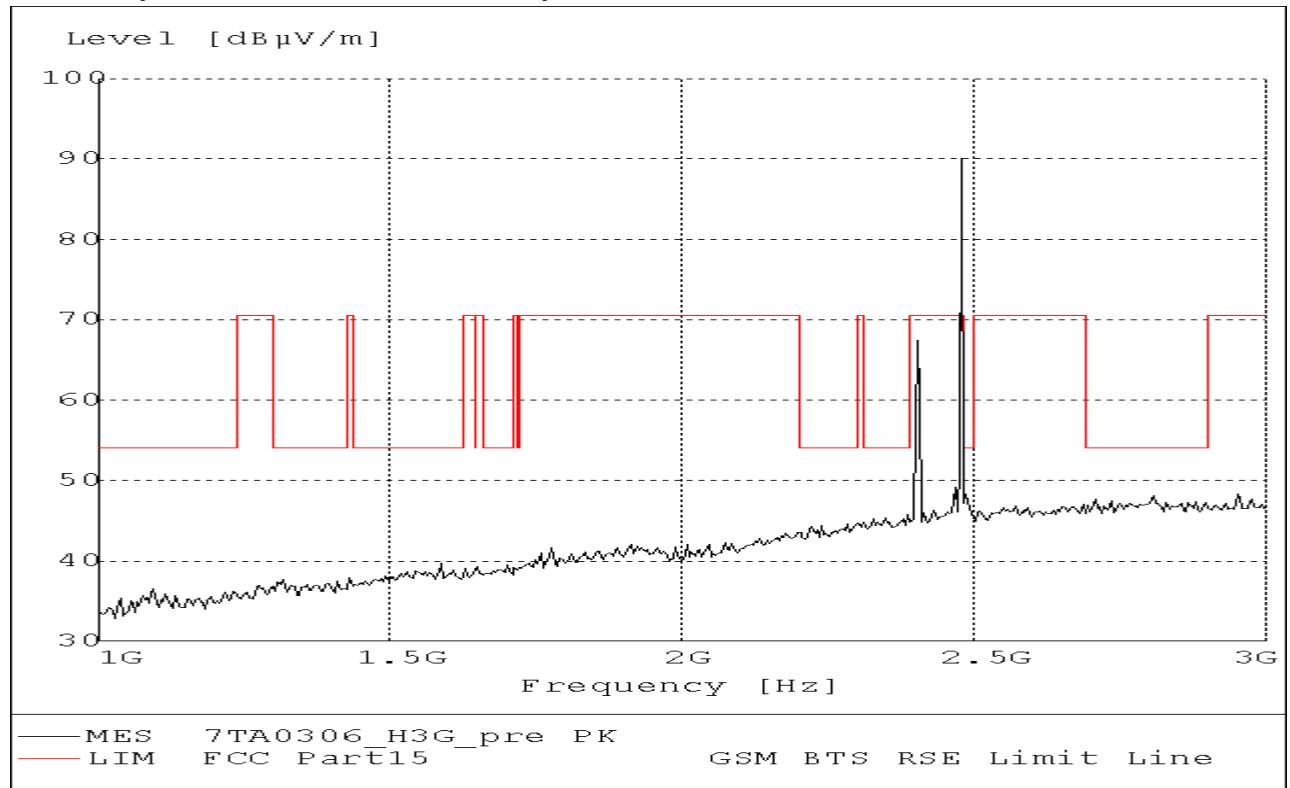


A.9.3.8 30MHz-1GHz - Channel 2480MHz

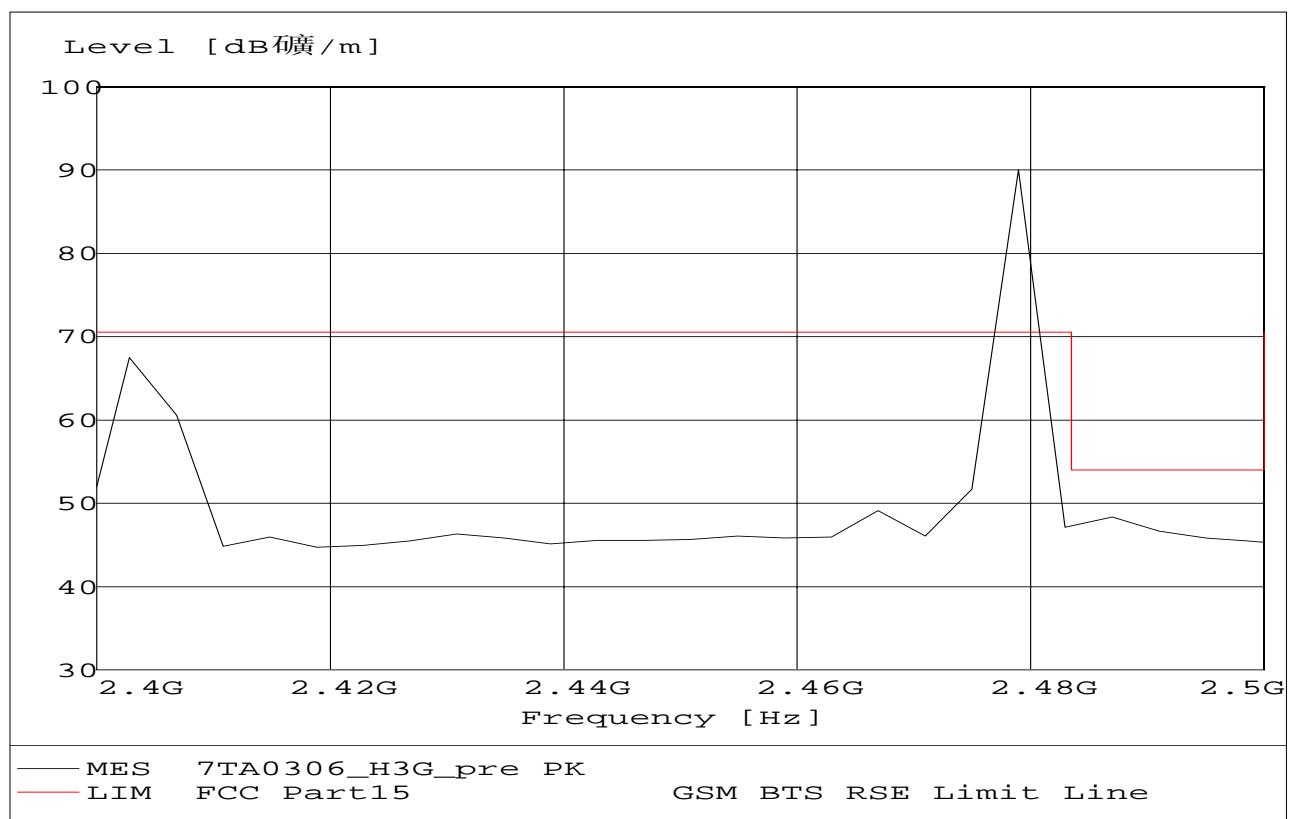


A.9.3.9 1GHz-3GHz - Channel 2480MHz

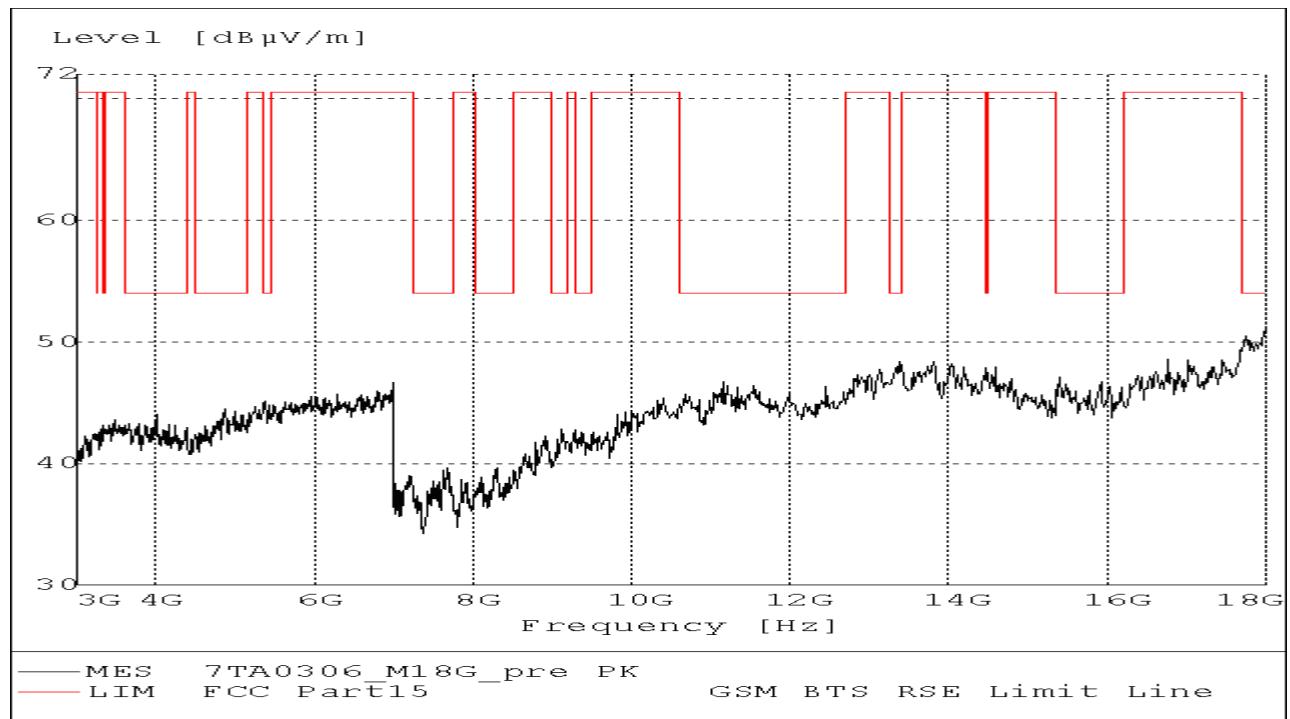
Note: the peak above the limit is carrier power



A.9.3.10 2.4GHz-2.5GHz - Channel 2480MHz (Particular for the Traffic frequency)

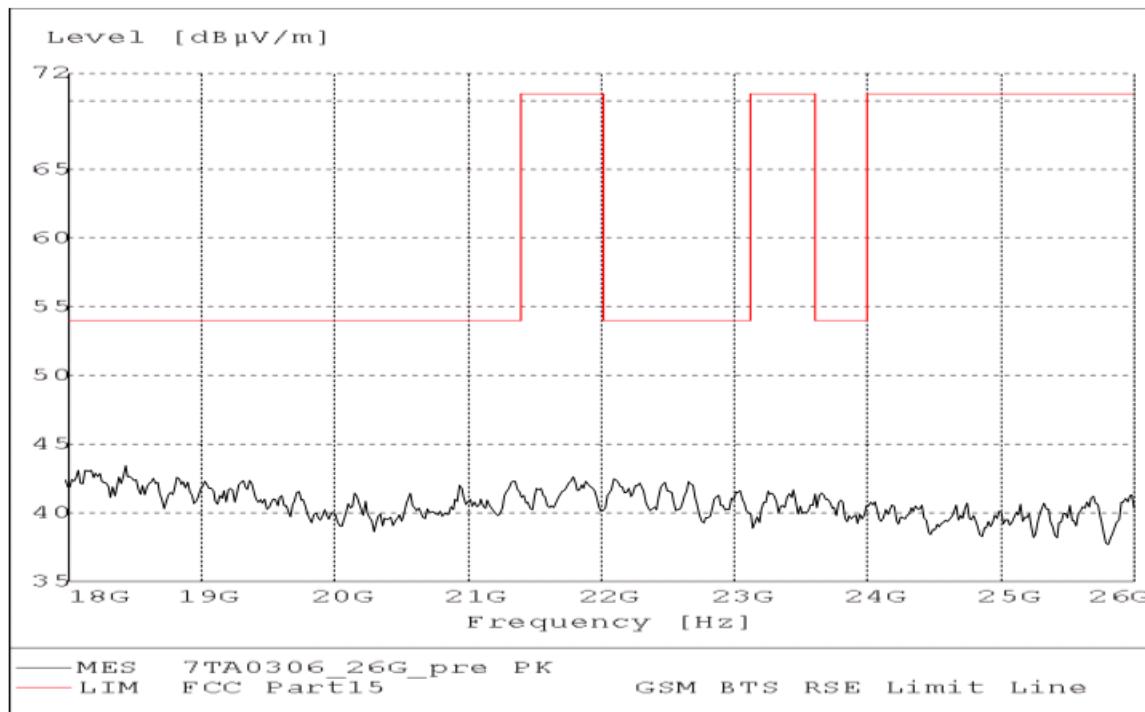


A.9.3.11 3GHz-18GHz - Channel 2480MHz



#### A.9.3.12 18GHz-26.5GHz

This plot is the worst case of Low, Middle, High channel. It is same as the noise floor.



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