



FCC LISTED,  
REGISTRATION  
NUMBER: 905266

IC LISTED  
REGISTRATION  
NUMBER IC 4621

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Folio 133 Hoja MA3729

## TEST REPORT

**Report No.: 23868RET.101**

**TEST NAME:** FCC PART 15.247 RADIATED TESTING FOR BLUETOOTH RADIO  
DEVICE

**Product** : Cordless mouse  
**Trade Mark** : Logitech  
**Model/type Ref.** : M-RBA97  
**Manufacturer** : Logitech Technology Suzhou Co., LTD  
**Requested by** : Logitech Inc.  
**Other identification of the product** : FCC ID: DZL201945  
IC: 1807B-201945  
P/N 852384-0000  
PID LZ603A8  
**Standard(s)** : USA FCC Part 15.247, 15.205, 15.209  
CANADA RSS-210

This test report includes 2 annexes and therefore the total number of pages is 40

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Date: 2006-04-03	Test operator A. Llamas 	Revised by: Date: 2006-04-03 J. C. Soler Consultant 	Approved by: Date: 2006-04-03 A. Rojas Technical Director 	Page: 1 of 7 AGY-737054-0000.A0
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## 1. COMPETENCE AND GUARANTEES

Centro de Tecnología de las Comunicaciones (CETECOM), S.A. is a laboratory with a measurement facility in compliance with the requirements of Section 2.948 of the FCC rules and has been added to the list of facilities whose measurements data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Registration Number: 905266.

Centro de Tecnología de las Comunicaciones (CETECOM), S.A. is a laboratory with a measurement site in compliance with the requirements of RSS 212, Issue 1 (Provisional) and has been added to the list of filed sites of the Canadian Certification and Engineering Bureau. Reference File Number: IC 4621.

In order to assure the traceability to other national and international laboratories, CETECOM has a calibration and maintenance programme for its measuring equipment.

CETECOM 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 CETECOM at the time of execution of the test.

CETECOM 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. GENERAL CONDITIONS

1. This report only refers to the item that has undergone the test.
2. This report does not constitute or imply by its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without written approval of CETECOM.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of CETECOM and the Accreditation Bodies.

## 3. CHARACTERISTICS OF THE TEST

### 3.1 TEST REQUESTED

Radiated measurements (Transmitter power, Emission limitations for transmitter and radiated emissions limits for receiver) for frequency hopping spread spectrum equipment (Bluetooth) operating in the 2400 MHz -2483.5 MHz band, according to FCC Part 15.247.

### 3.2 REQUIREMENTS AND METHOD

The test has been carried out according to FCC parts 15.33, 15.35, 15.205, 15.209, 15.247 and the document DA 00-705:"Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems".

The testing was performed according to the procedure in ANSI C63.4:2003. Radiated testing was performed in Cetecom's semi-anechoic chamber. This site has been fully described in a report submitted to the FCC and was accepted in a letter dated July 25, 2002.

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The instrumentation used to perform the testing is listed below:

1. Semianechoic Absorber Lined Chamber IR 11. BS.
2. Control Chamber IR 12.BC.
3. Antenna mast EM 1072 NMT.
4. Rotating table EM 1084-4. ON.
5. Multi device controller ETS 2090.
6. Bilog antenna CHASE CBL6111.
7. Antenna tripod EMCO 11968C.
8. Double-ridge Guide Horn antenna 1-18 GHz HP 11966E.
9. Double-ridge Guide Horn antenna 18-40 GHz Agilent 119665J.
10. RF pre-amplifier Miteq AFS5-04001300-15-10P-6.
11. RF pre-amplifier Miteq JS4-12002600-30-5A.
12. RF pr-eamplifierr Schaffner CPA 9231.
13. Spectrum analyzer R&S ESIB 26.
14. Spectrum analyzer Agilent E4440A.

#### **4. IDENTIFICATION DATA SUPPLIED BY THE APPLICANT**

Identification data in this section has been supplied by the client.

##### **4.1 APPLICANT**

**Name or Company:** Logitech Inc.

**V.A.T.:** -----

**Address:** 6505 kaiser Drive

**City:** Fremont (California)

**Postal code:** CA 94555

**Country:** USA

**Telephone:** +1 510 7958500

**Fax:** +1 510 7928901

##### **4.2 REPRESENTATIVE**

**Name:** Bharat Shah

##### **4.3 TEST SAMPLES SUPPLIER**

**Name or Company:** Logitech Europe, S.A.

**V.A.T.:** -----

**Address:** ZI Moulin du Choc

**City:** Romanel Sur Morges

**Postal code:** 1122

**Country:** Switzerland

**Telephone:** +41 (0)21 863 50 67

**Fax:** +41 (0)21 863 53 11

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Samples undergoing test have been selected by: **the client.**

#### 4.4 IDENTIFICATION OF ITEM/ITEMS TESTED

**Product:** Cordless mouse

**Trade mark:** Logitech

**Model:** M-RBA97

**Manufacturer:** Logitech Technology Suzhou Co., LTD.

**Country of manufacture:** China

**Manufacture site:** No. 3, Songsshan Road, 215129 Suzhou new district

**Description:** Bluetooth mouse

### 5. USAGE OF SAMPLES, PERIOD OF TESTING AND ENVIRONMENTAL CONDITIONS

#### 5.1 USAGE OF SAMPLES

Sample M/01 is formed by the following elements:

<u>Control No.</u>	<u>Description</u>	<u>Model</u>	<u>Serial No.</u>	<u>Date of reception</u>
23868/01	Bluetooth mouse with integral antenna	M-RBA97	----	23/03/06

1. Sample M/01 has undergone following test(s).  
All tests indicated in annex A.

#### 5.2 PERIOD OF TESTING

The performed test started on 2006-03-24 and finished on the same day.

The tests as detailed in this report have been performed at CETECOM.

#### 5.3 ENVIROMENTAL CONDITIONS

In the control chamber the following limits were not exceeded during the test:

Temperature	Min. = 23 °C Max. = 24 °C
Relative humidity	Min. = 56 % Max. = 56 %
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	< 0,5 Ω

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In the semianechoic chamber (21 meters x 11 meters x 8 meters) the following limits were not exceeded during the test.

Temperature	Min. = 23 °C Max. = 23 °C
Relative humidity	Min. = 51 % Max. = 51 %
Air pressure	Min. = 1015 mbar Max. = 1015 mbar
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	< 0,5 Ω
Normal site attenuation (NSA)	< ±4 dB at 10 m distance between item under test and receiver antenna, (30 MHz to 1000 MHz)
Field homogeneity	More than 75% of illuminated surface is between 0 and 6 dB (26 MHz to 1000 MHz).

## 6. TEST RESULTS

Abbreviations used in the VERDICT column of the following tables are:

- P** Pass
- F** Fail
- NA** not applicable
- NM** not measured

FCC PART 15 PARAGRAPH	VERDICT			
	NA	P	F	NM
15.247 Subclause (a) (1). 20 dB Bandwidth and Carrier frequency separation				NM <sup>1</sup>
15.247 Subclause (a) (1) (iii). Number of hopping channels				NM <sup>1</sup>
15.247 Subclause (a) (1) (iii). Time of occupancy (Dwell Time)				NM <sup>1</sup>
15.247 Subclause (b). Maximum peak output power and antenna gain		P		
15.247 Subclause (c). Band-edge of conducted emissions (Transmitter)				NM <sup>1</sup>
15.247 Subclause (c). Emission limitations conducted (Transmitter)				NM <sup>1</sup>
15.247 Subclause (c). Emission limitations radiated (Transmitter)		P		
15.207. Conducted limits	NA			
15.109. Radiated emission limits for receiver		P		

1: See point 7: "Remarks and comments."

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## 7. REMARKS AND COMMENTS

1: Test not requested (see point 3.1. "Test requested").

## 8. SUMMARY

Based on the results of the performed test, stated in annex A the item under test is **IN COMPLIANCE** with the specifications listed in section 3.1 "TEST REQUESTED".

NOTE: The results presented in this Test Report apply only to the particular item under test declared in section 4.4 "IDENTIFICATION OF ITEM/ITEMS TESTED" of this document, as presented for test on the date(s) declared in section 5, "USAGE OF SAMPLES, PERIOD OF TESTING AND ENVIRONMENTAL CONDITIONS".

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# **ANNEX A TEST RESULTS**

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## TEST CONDITIONS

Power supply (V):

$$V_{\text{nominal}} = 4.2 \text{ Vdc}$$

Type of power supply = DC Voltage from rechargeable battery

Type of antenna = Integral antenna

The test set-up was made in accordance to the general provisions of ANSI C63.4:2003

## RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-25 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

For radiated emissions in the range 1 GHz-25 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive (wooden) platform one meter above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

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**Section 15.247 Subclause (b). Maximum peak output power (radiated)****SPECIFICATION**

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels: 1 watt (30 dBm).

**RESULTS****MAXIMUM PEAK OUTPUT POWER (RADIATED).**

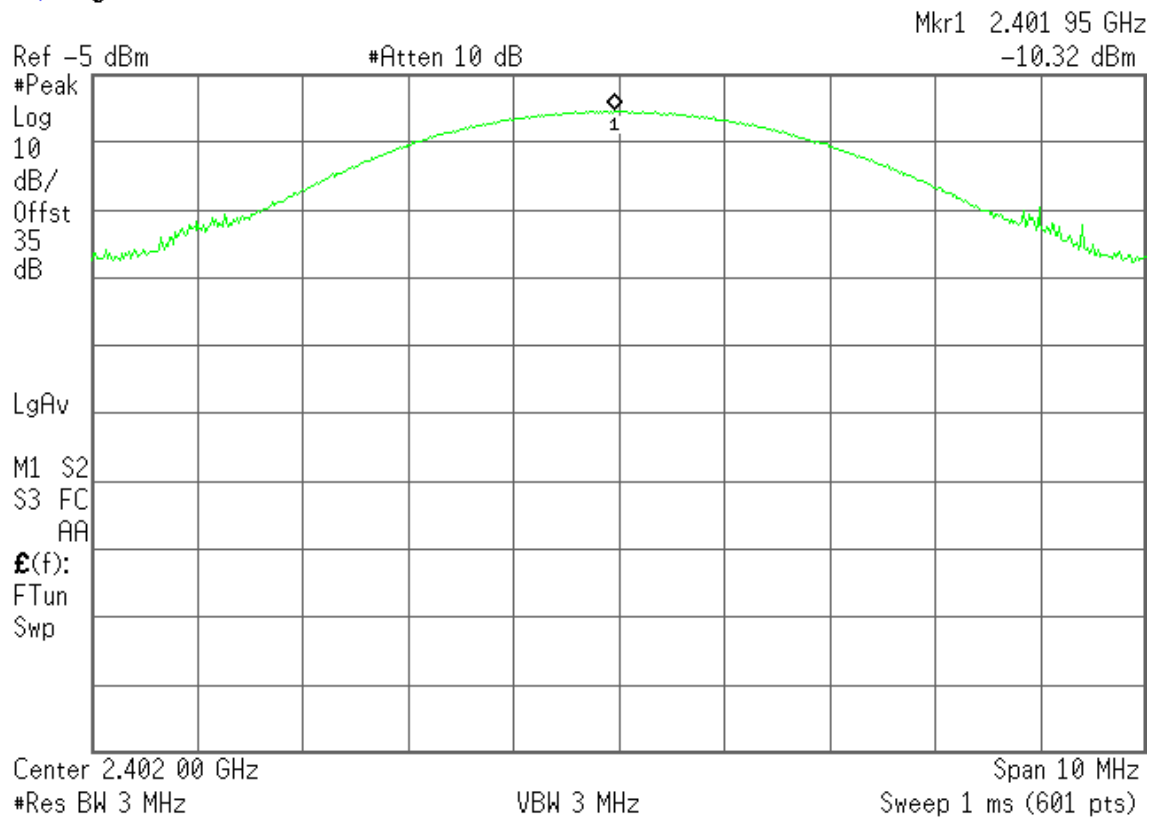
	Lowest frequency 2402 MHz	Middle frequency 2441 MHz	Highest frequency 2480 MHz
Correction Factor (dB)	34.96	35.10	35.24
Maximum EIRP peak power (dBm)	-10.32	-9.40	-9.94
Measurement uncertainty (dB)	$\pm 4.0$		

Verdict: PASS

PEAK OUTPUT POWER (RADIATED).

Lowest Channel: 2402 MHz.

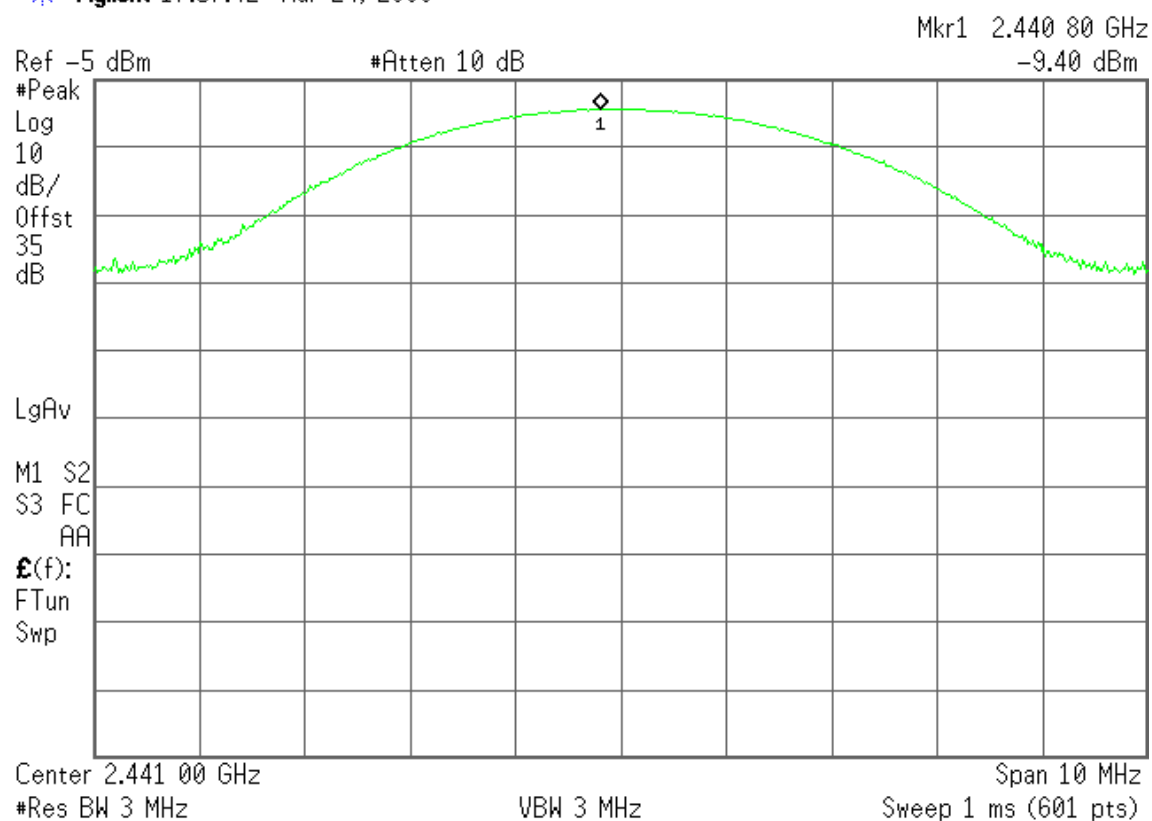
✱ Agilent 17:53:34 Mar 24, 2006



# PEAK OUTPUT POWER (RADIATED).

Middle Channel: 2441 MHz.

✱ Agilent 17:57:42 Mar 24, 2006



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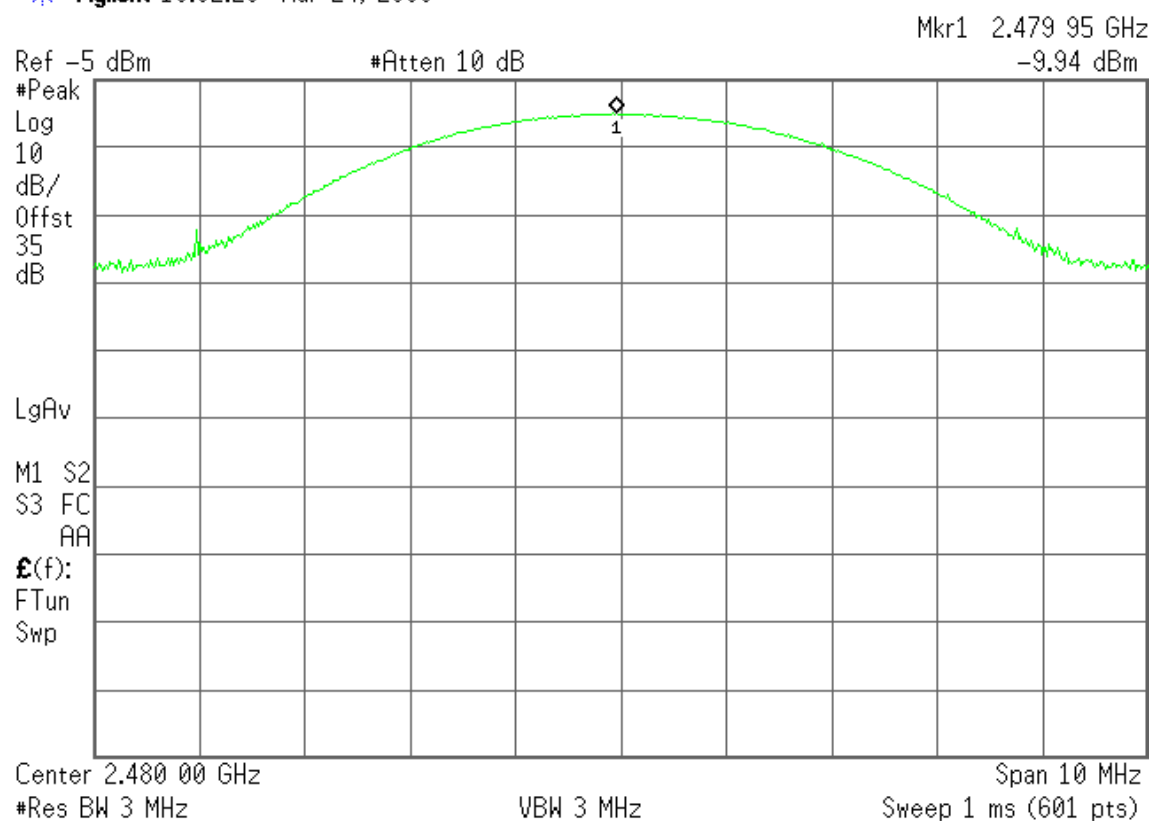
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# PEAK OUTPUT POWER (RADIATED).

Highest Channel: 2480 MHz.

✱ Agilent 18:02:26 Mar 24, 2006



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## Section 15.247 Subclause (c). Emission limitations radiated (Transmitter)

### SPECIFICATION

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 Range (MHz)	Field strength ( $\mu\text{V/m}$ )	Field strength ( $\text{dB}\mu\text{V/m}$ )	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

### RESULTS:

The field strength is calculated by adding correction factor to the measured level from the spectrum analyser. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

The equipment transmits continuously in the selected channel so it is not necessary a duty cycle correction factor.

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# 1. TRANSMITTER OPERATING IN CHANNEL: LOWEST (2402 MHz).

## Frequency range 30 MHz-1000 MHz.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
801.7235	H	Quasi-peak	38.51	$\pm 3.8$

## Frequency range 1 GHz-25 GHz.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
1601.273	V	Peak	47.38	$\pm 4.0$
1601.273	V	Average	45.32	$\pm 4.0$

No spurious signals found at the harmonics frequencies and inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

# 2. TRANSMITTER OPERATING IN CHANNEL: MIDDLE (2441 MHz).

## Frequency range 30 MHz-1000 MHz.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
813.3868	H	Quasi-peak	37.82	$\pm 3.8$

## Frequency range 1 GHz-25 GHz.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
1627.336	V	Peak	46.10	$\pm 4.0$
1627.336	V	Average	44.12	$\pm 4.0$

No spurious signals found at the harmonics frequencies and inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.



**3. TRANSMITTER OPERATING IN CHANNEL: HIGHEST (2480 MHz).****Frequency range 30 MHz-1000 MHz.**

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
826.9940	H	Quasi-peak	38.68	$\pm 3.8$

**Frequency range 1 GHz-25 GHz.**

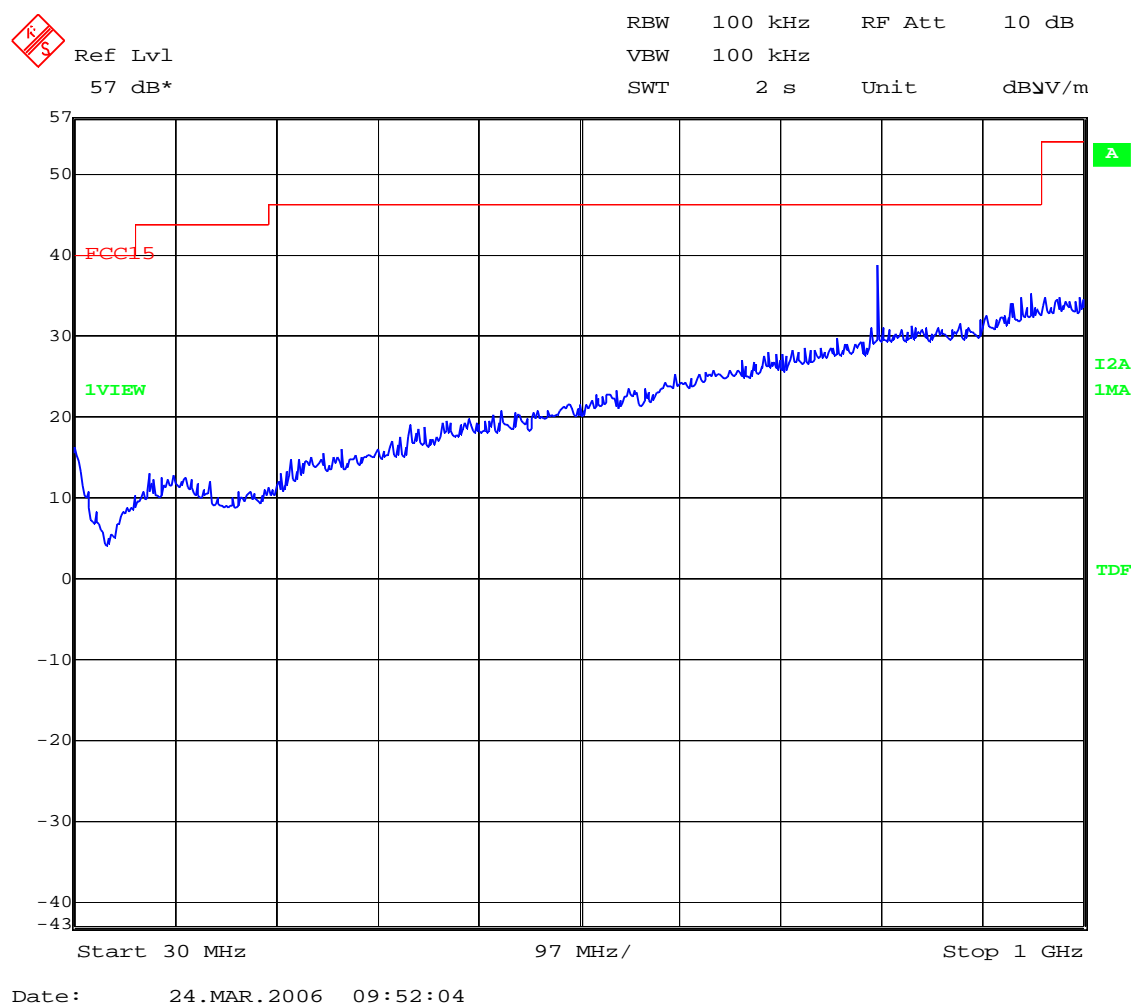
Spurious frequency (MHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
1653.538	V	Peak	47.37	$\pm 4.0$
1653.538	V	Average	44.59	$\pm 4.0$

No spurious signals found at the harmonics frequencies and inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

Verdict: PASS.

FREQUENCY RANGE 30 MHz-1000 MHz.

**CHANNEL: Lowest (2402 MHz).**



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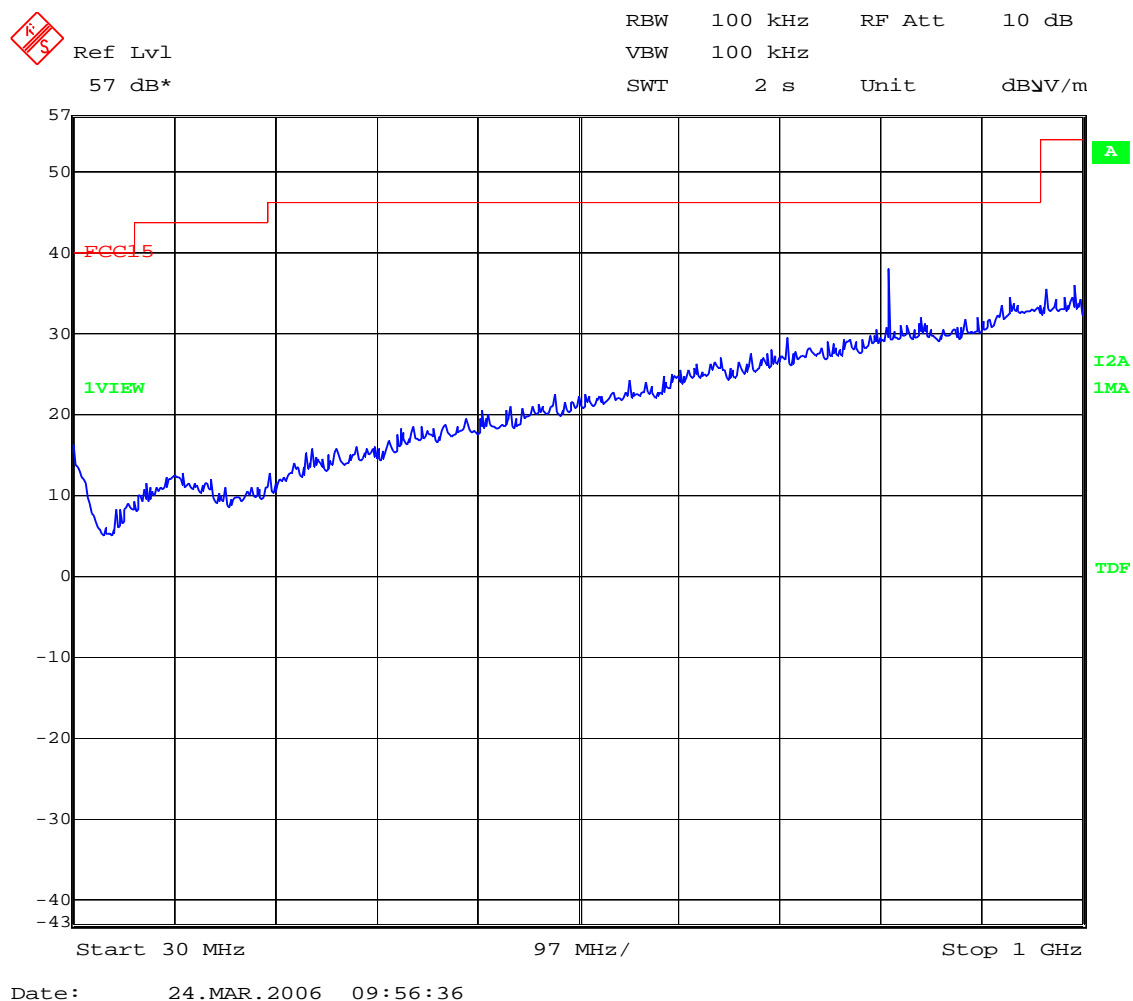
Date: 2006-04-03

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**CHANNEL: Middle (2441 MHz).**



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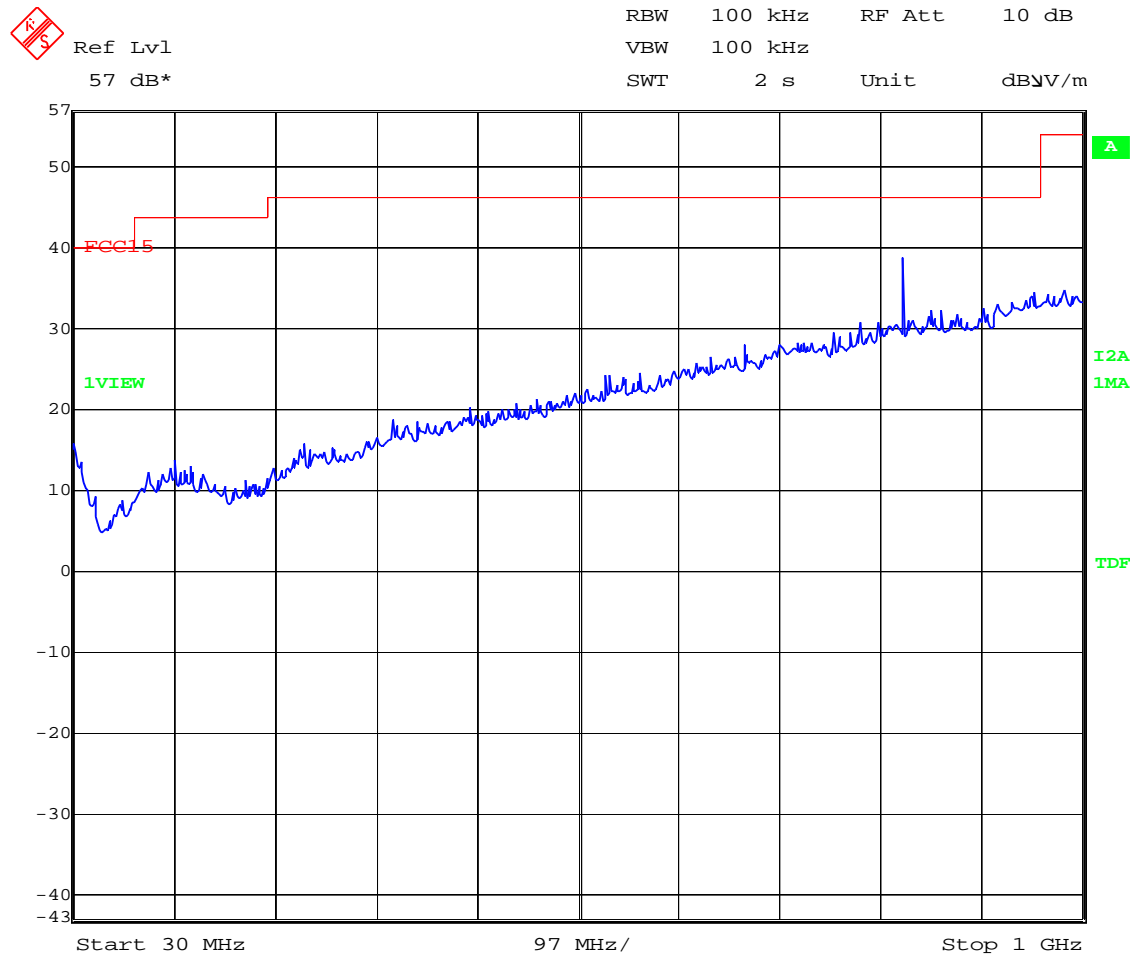
Date: 2006-04-03

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**CHANNEL: Highest (2480 MHz).**



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FET45\_00.DOC

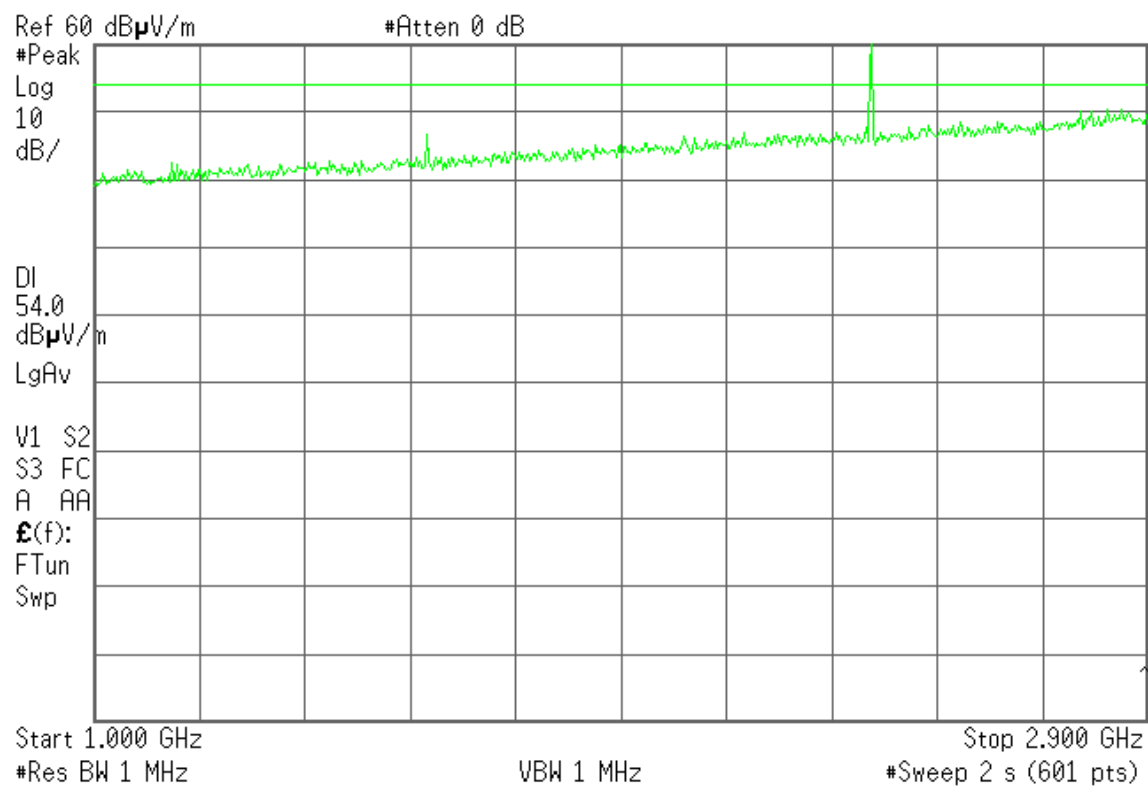
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FREQUENCY RANGE 1 GHz to 2.9 GHz.

**CHANNEL: Lowest (2402 MHz).**

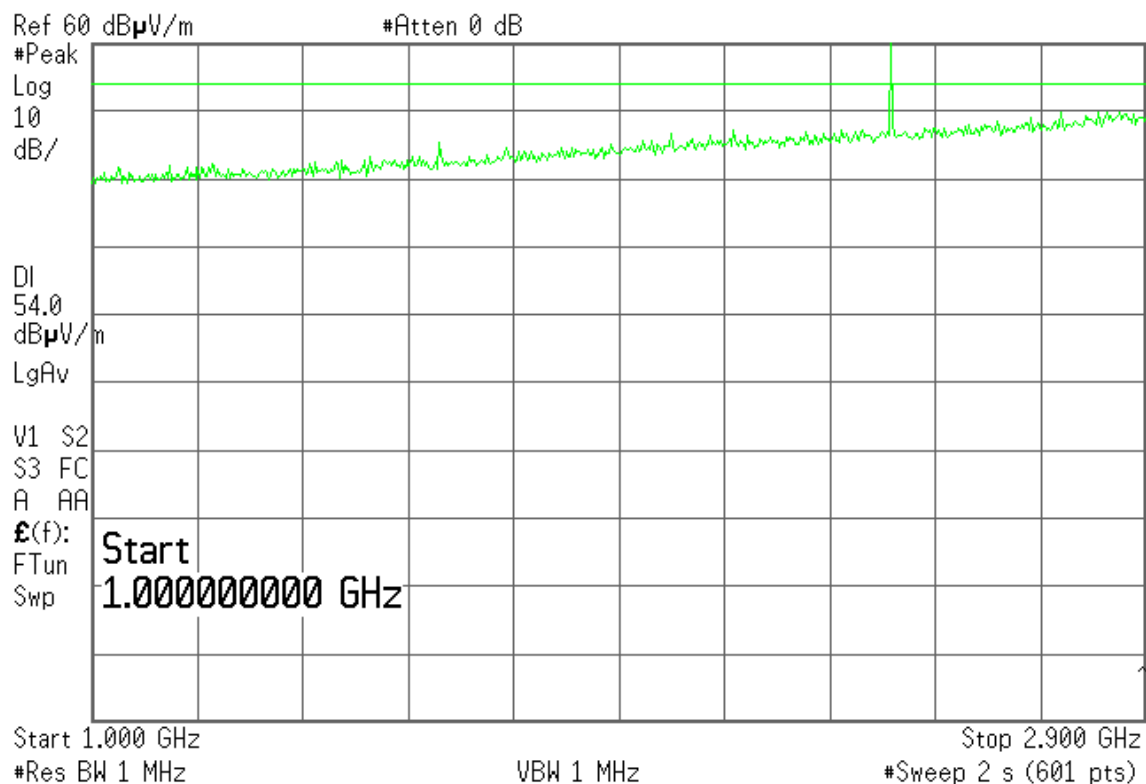
\* Agilent 17:07:04 Mar 24, 2006



Note: The peak above the limit is the carrier frequency.

**CHANNEL: Middle (2441 MHz).**

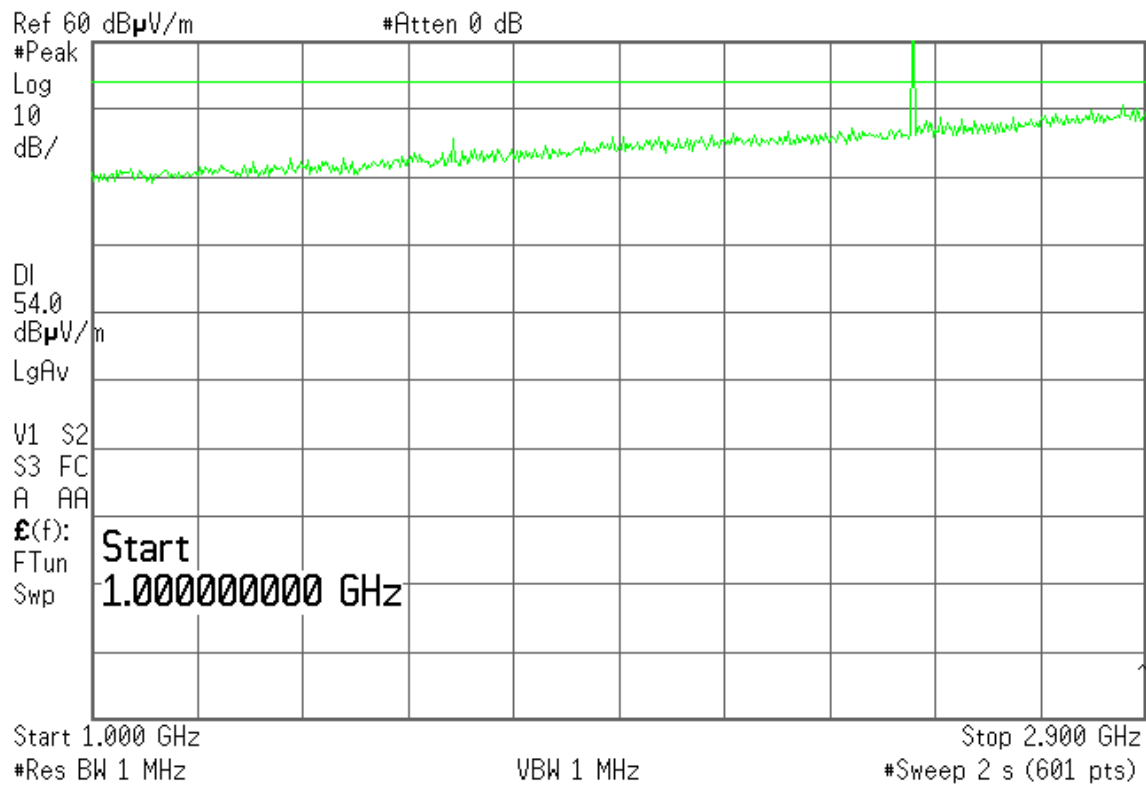
✱ **Agilent** 17:14:58 Mar 24, 2006



Note: The peak above the limit is the carrier frequency.

**CHANNEL: Highest (2480 MHz).**

✱ **Agilent** 17:17:28 Mar 24, 2006



Note: The peak above the limit is the carrier frequency.

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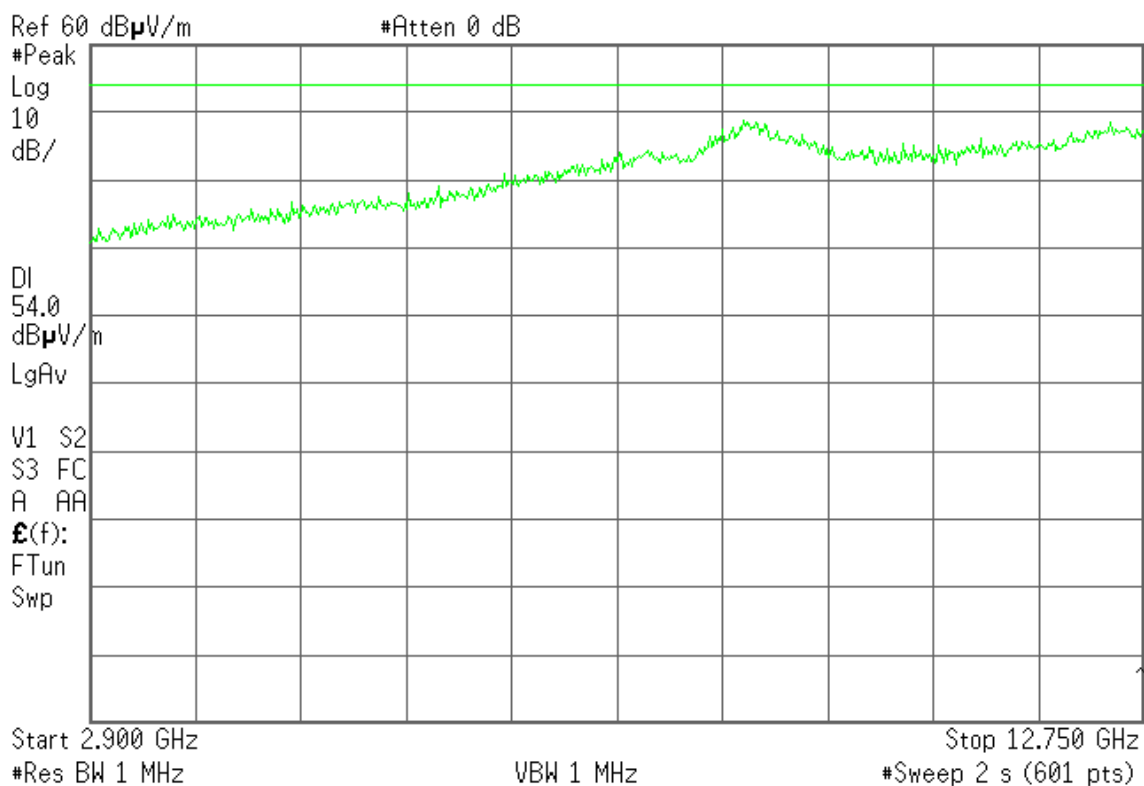
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FREQUENCY RANGE 2.9 GHz to 12.75 GHz.

\* Agilent 16:34:39 Mar 24, 2006

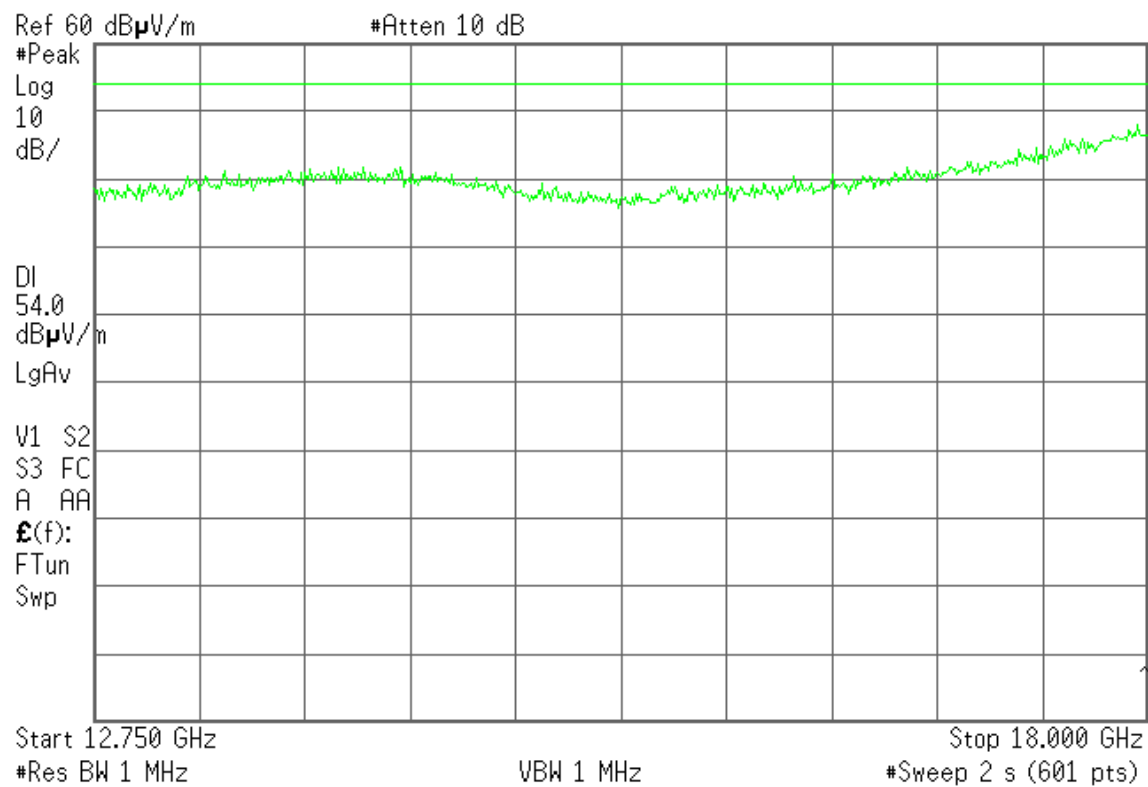


(This plot is valid for all three channels).



FREQUENCY RANGE 12.75 GHz to 18 GHz.

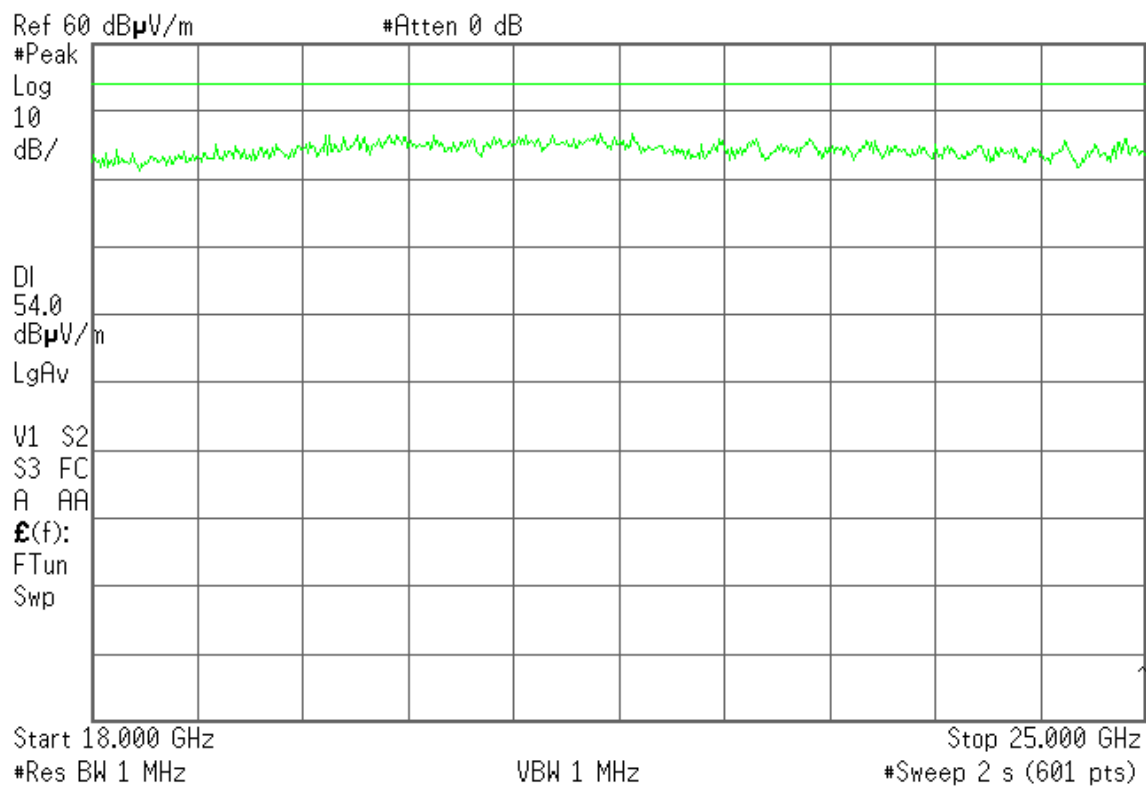
✱ Agilent 18:27:58 Mar 24, 2006



(This plot is valid for all three channels).

FREQUENCY RANGE 18 GHz to 25 GHz.

✱ Agilent 18:34:41 Mar 24, 2006



(This plot is valid for all three channels).

**Section 15.109. Receiver spurious radiation****SPECIFICATION**

The field strength shall not exceed the following values:

Frequency Range (MHz)	Field strength ( $\mu\text{V/m}$ )	Field strength ( $\text{dB}\mu\text{V/m}$ )	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

**RESULTS:**

The field strength is calculated by adding correction factor to the measured level from the spectrum analyser. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

1. CHANNEL: LOWEST (2402 MHz).

**Frequency range 30 MHz-1000 MHz.**

No spurious signals were found in all the range.

**Frequency range 1 GHz-25 GHz.**

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
1600.500	H	Peak	38.26	± 4.0
1600.500	H	Average	31.53	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

2. CHANNEL: MIDDLE (2441 MHz).

**Frequency range 30 MHz-1000 MHz.**

No spurious signals were found in all the range.

**Frequency range 1 GHz-25 GHz.**

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
1626.510	H	Peak	38.36	± 4.0
1626.510	H	Average	33.51	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

3. CHANNEL: HIGHEST (2480 MHz).

**Frequency range 30 MHz-1000 MHz.**

No spurious signals were found in all the range.

**Frequency range 1 GHz-25 GHz.**

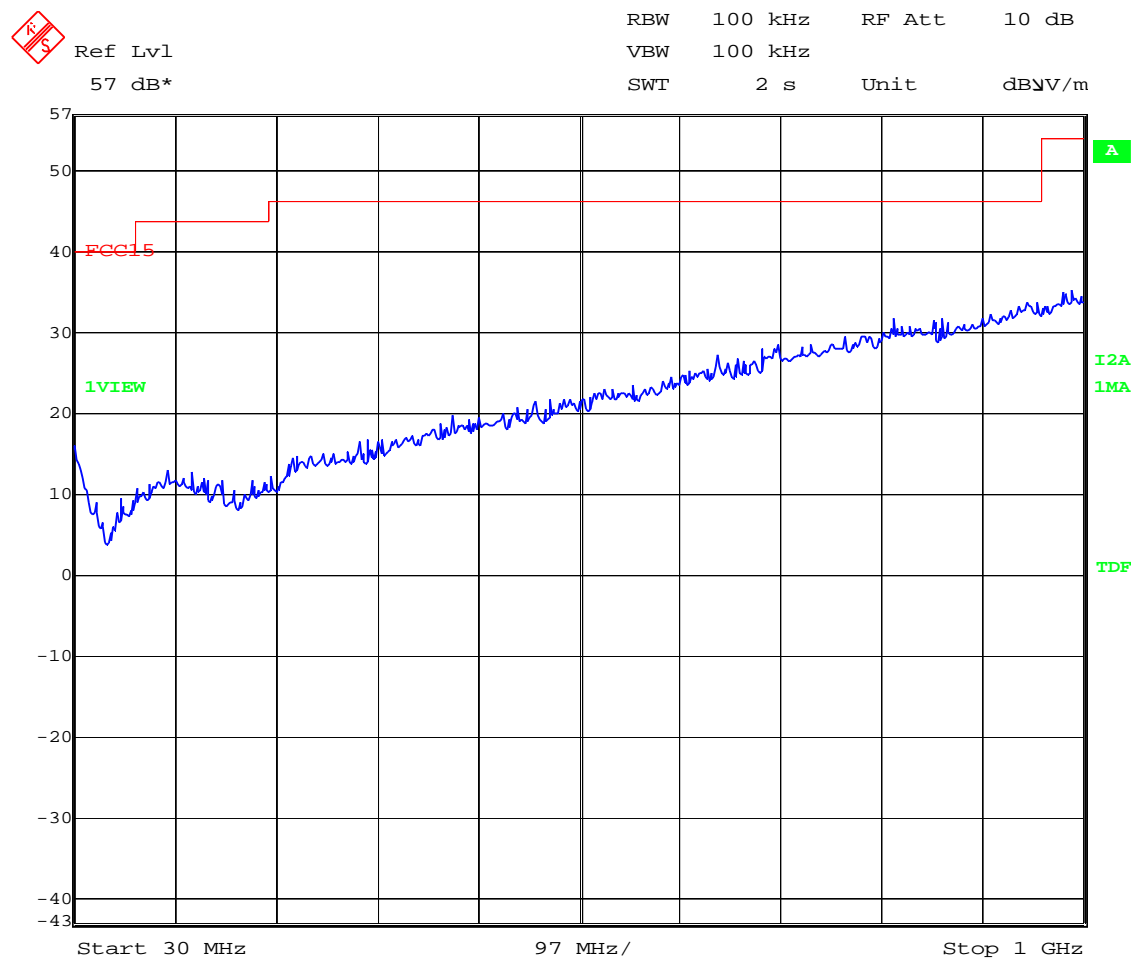
Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBμV/m)	Measurement Uncertainty (dB)
1652.710	H	Peak	40.85	± 4.0
1652.710	H	Average	35.60	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

Verdict: PASS

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FREQUENCY RANGE 30 MHz-1000 MHz.



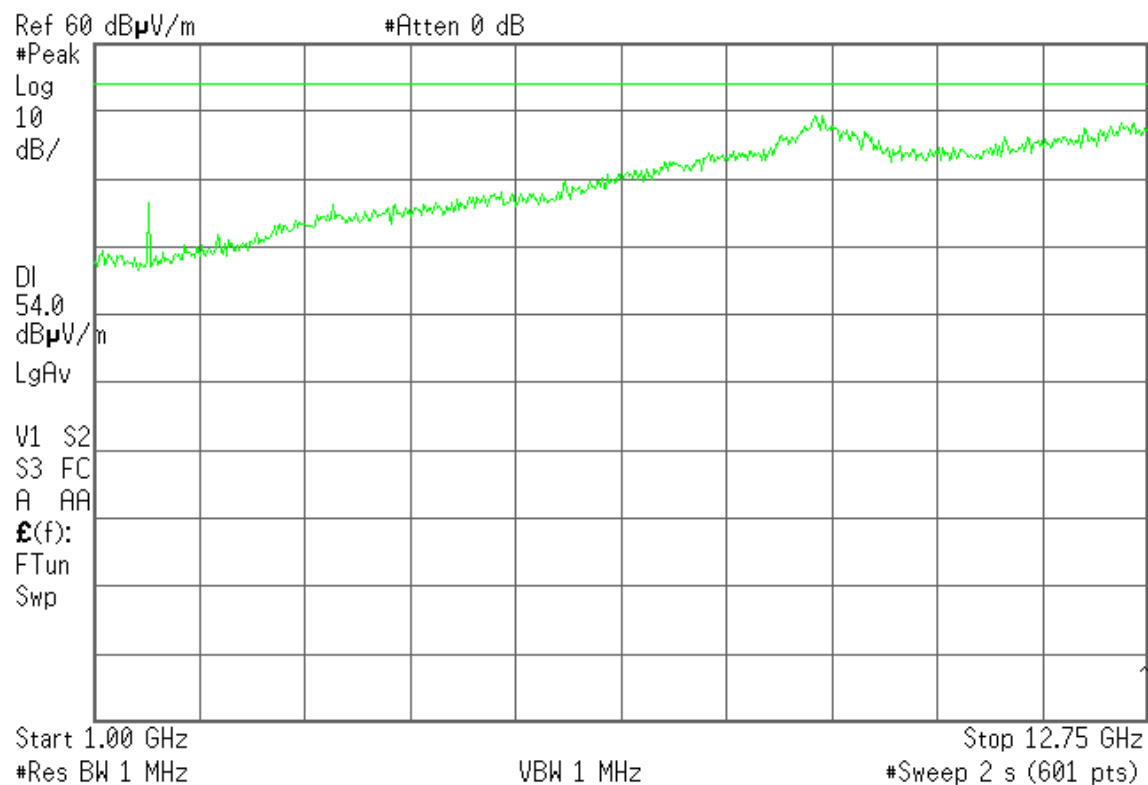
Date: 24.MAR.2006 08:43:25

(This plot is valid for all three channels).

FREQUENCY RANGE 1 GHz-12.75 GHz.

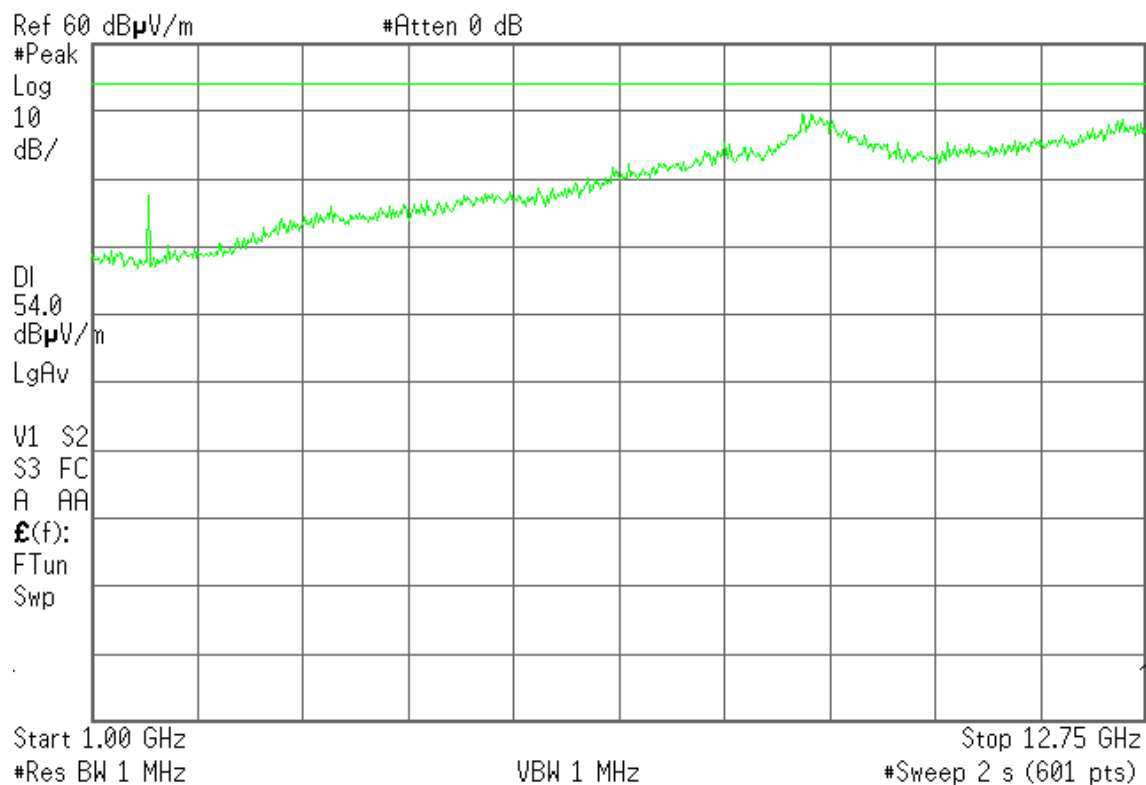
CHANNEL: LOWEST (2402 MHz).

✱ Agilent 15:57:10 Mar 24, 2006



**CHANNEL: MIDDLE (2441 MHz).**

✧ **Agilent** 15:41:11 Mar 24, 2006



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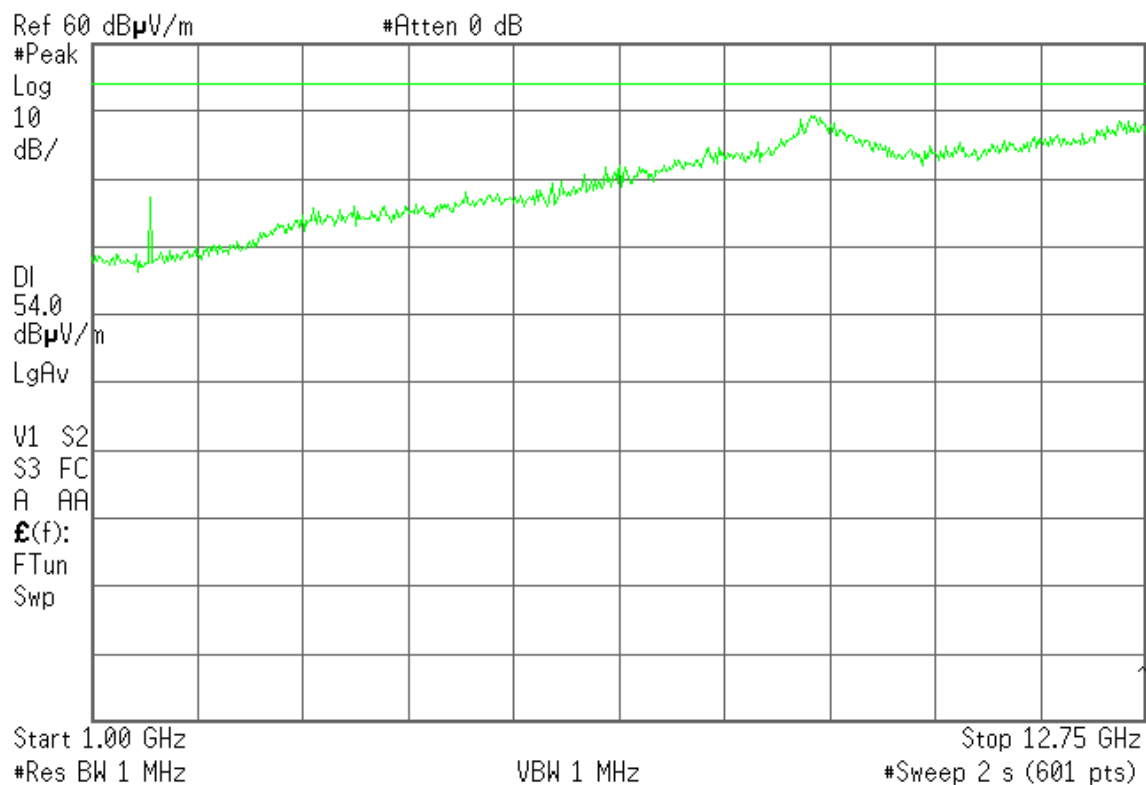
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**CHANNEL: HIGHEST (2480 MHz).**

✧ Agilent 15:49:33 Mar 24, 2006



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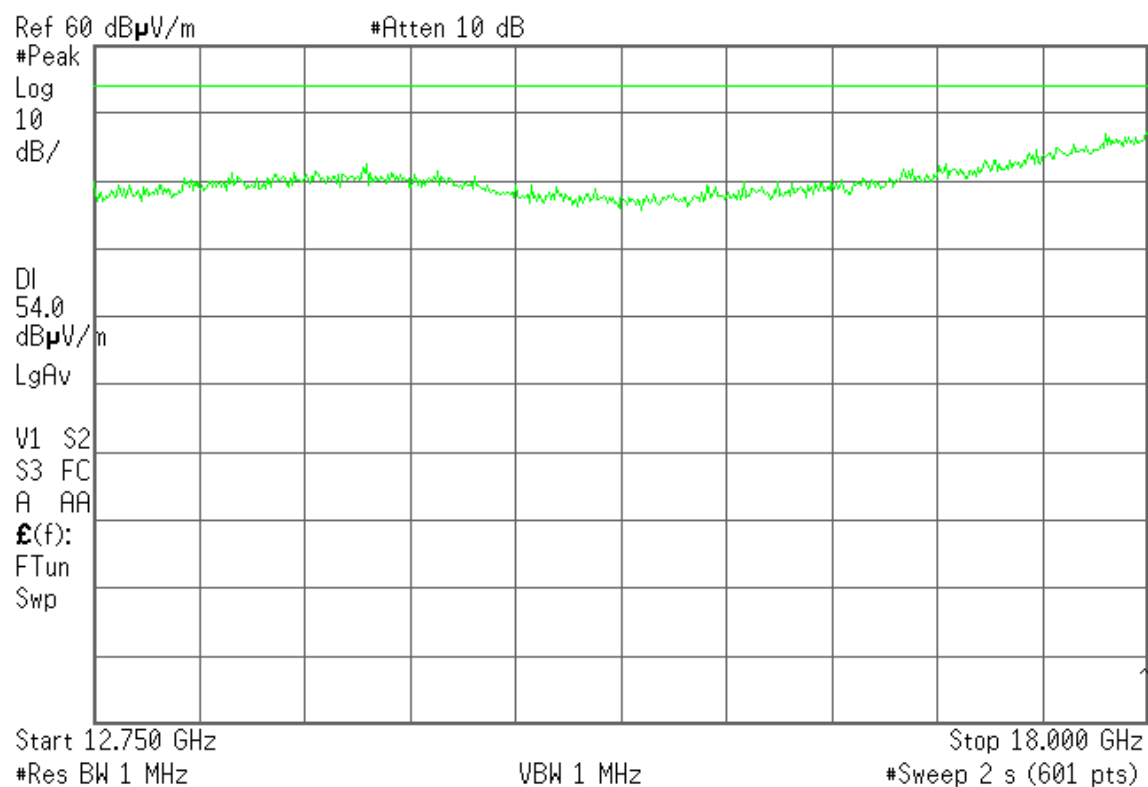
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FREQUENCY RANGE 12.75 GHz-18 GHz.

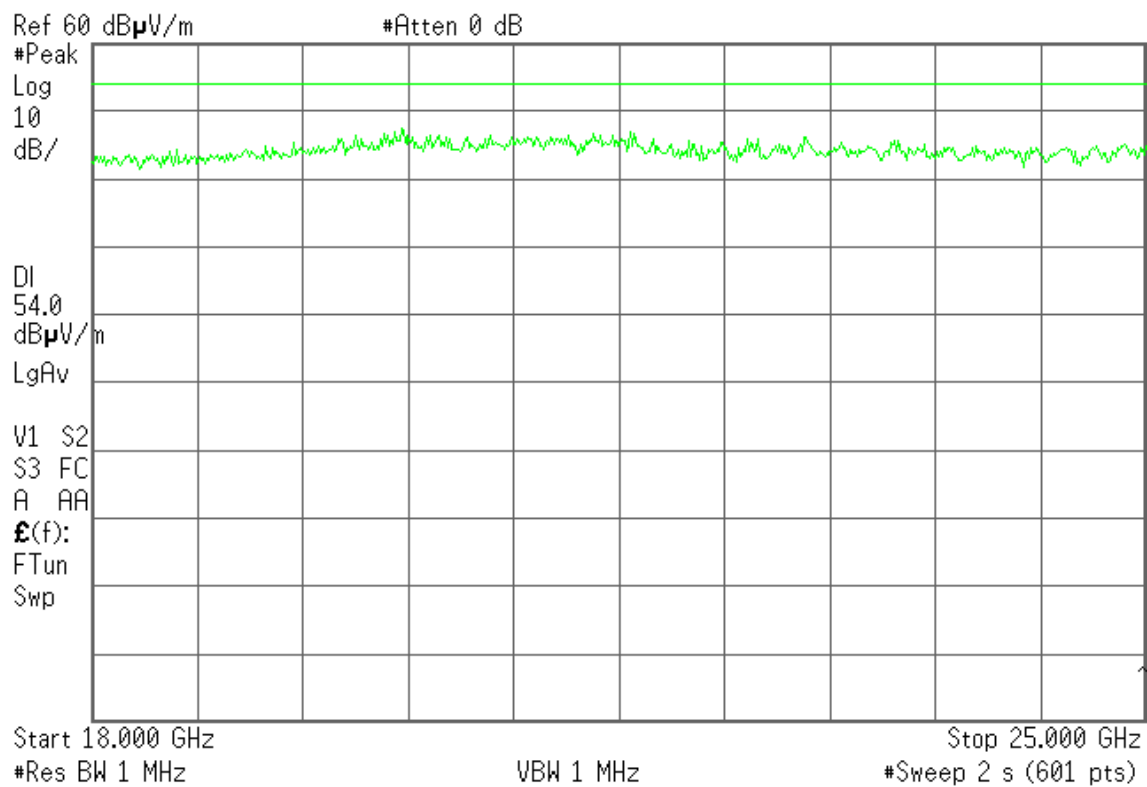
✱ Agilent 18:27:00 Mar 24, 2006



(This plot is valid for all three channels).

FREQUENCY RANGE 18 GHz-25 GHz.

✱ Agilent 18:33:42 Mar 24, 2006



(This plot is valid for all three channels).

## **ANNEX B**

### **PHOTOGRAPHS** **(Number of photographs: 5)**

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1. Equipment (front view)



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2. Equipment (back view).



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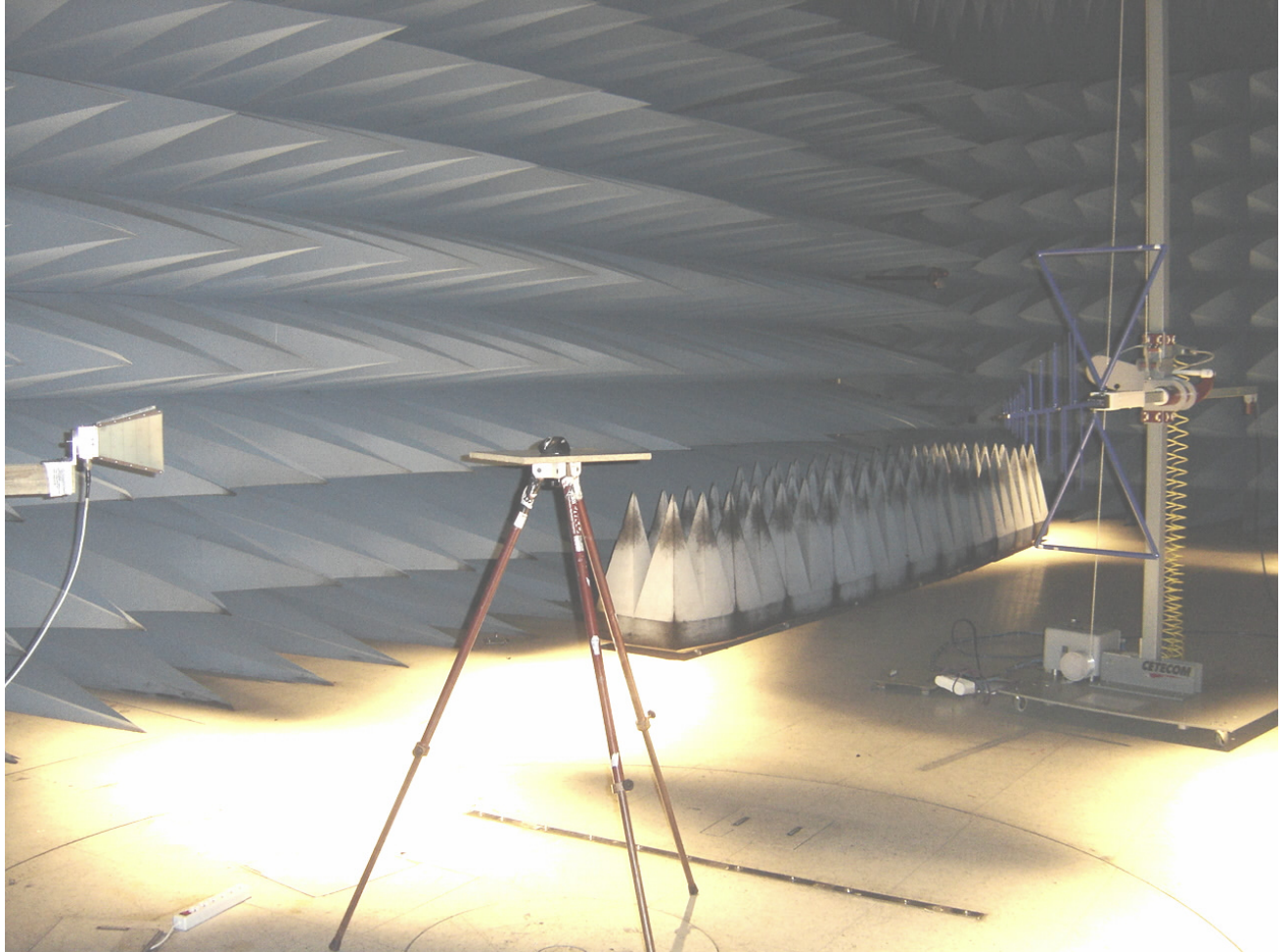
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### 3. General test set-up for radiated measurements.



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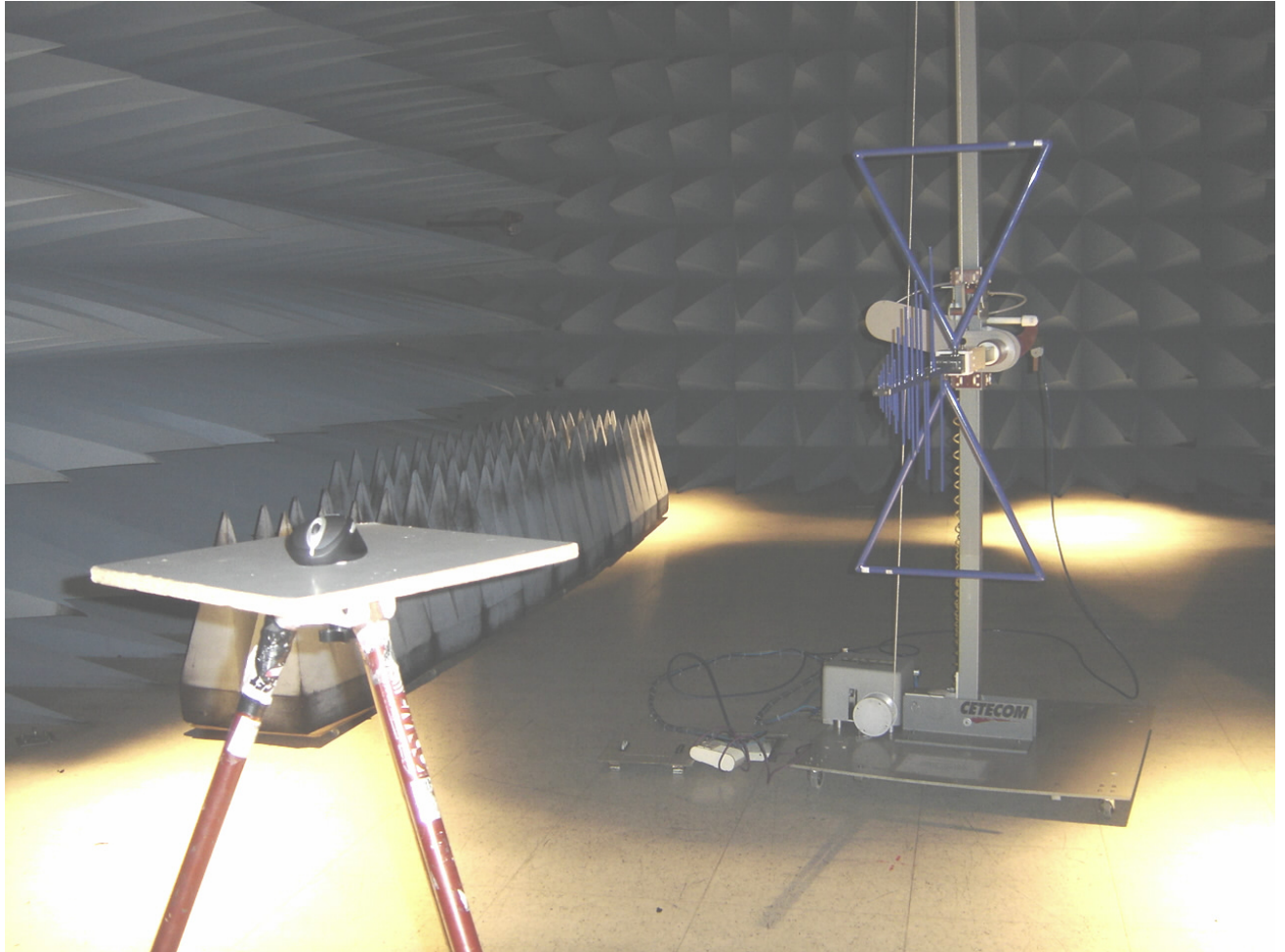
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#### 4. Test set-up for radiated measurements below 1 GHz.



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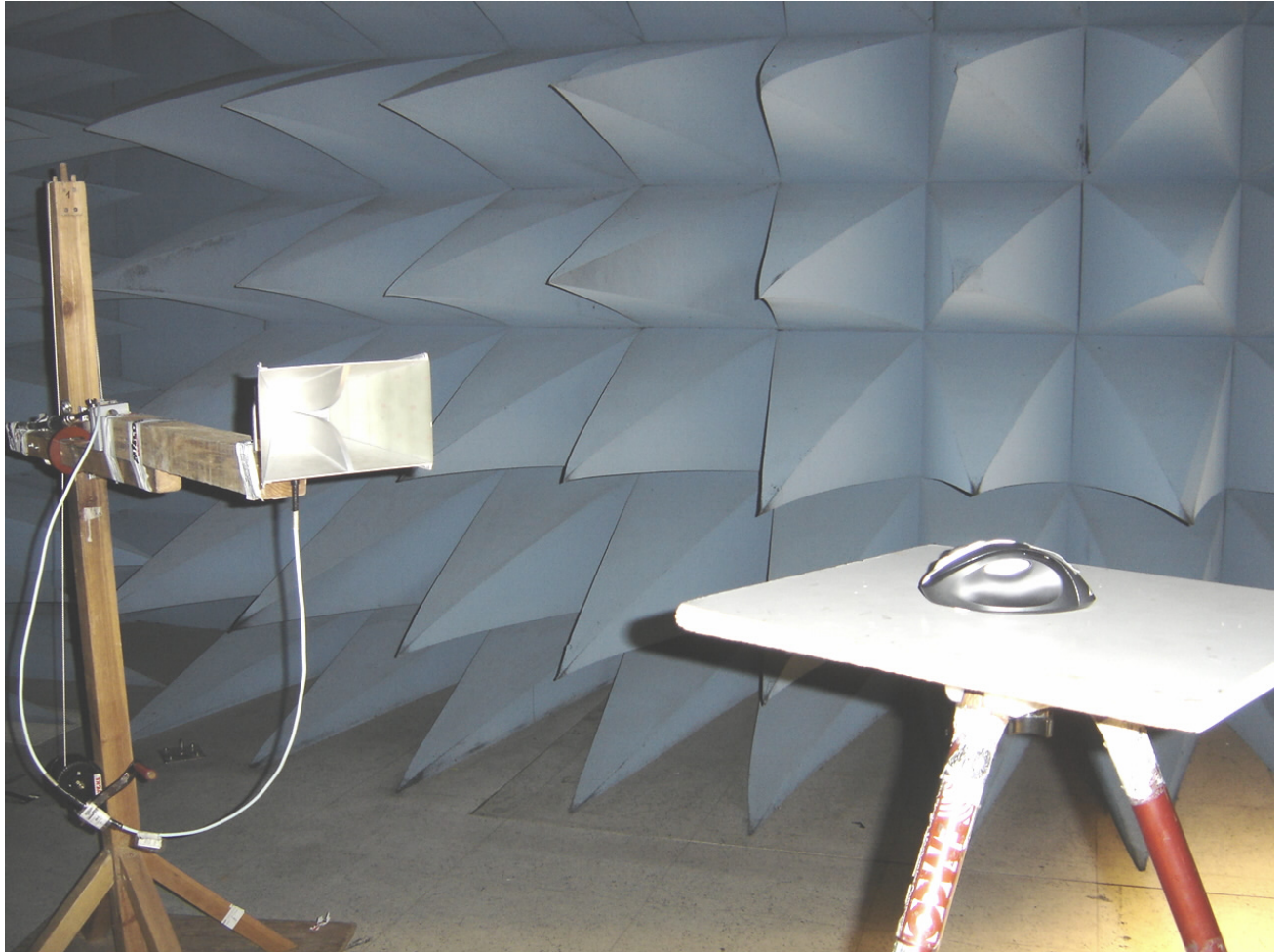
Date: 2006-04-03

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5. Test set-up for radiated measurements above 1 GHz.



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