

**CETECOM Inc.**



**CETECOM Inc.**

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Issued test report consists of 58 Pages

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**FCC LISTED, REG. NO.: 101450**

**&**

**RECOGNIZED BY INDUSTRY CANADA**

**IC – 3925**

**Test report no.:177 FCC/2001**

**FCC Part 15.247**

**LAN AP - LW1100AP**

**(FCC ID:FFMLW1100AP)**

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The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc. USA.

**1.2 Testing laboratory****CETECOM Inc.**

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E-mail: lothar.schmidt@cetecomusa.com

Internet: www.cetecom.com

**1.3 Details of applicant**

Name : LG Electronics Inc.

Street : 60-39 Kasan-dong, Kumchon-gu

City : Seoul 153-023

Country : Korea

Telephone : +82 2 3289 3117

Telefax : +82 2 3289 3200

Contact : Mr. William KS. Oh

e-mail : [ksoh@lge.com](mailto:ksoh@lge.com)

**1.4 Application details**

Date of receipt of application : 2001-08-01

Date of receipt of test item : 2001-08-03

Date of test : 2001-08-08/09

**1.5 Test item**

Manufacturer : LG Electronics Inc.

Address : See above

Name of EUT : Access Point

Descriptin : LAN Access Point

Model No. : LW1100AP

FCC ID :

**Additional informations:**

Frequency : 2412 – 2462 MHz

Type of modulation : DBPSK, DQPSK, CCK

Number of channels : 11 Channels in US

Antenna : Internal

Power supply : +5VDC

Temperature range : -10°C - +55°C

**1.6 Test standards      FCC Part 15 §15.247**

The tests were done following the public notice DA 00-705 released March 30, 2000

**2 Technical test****2.1 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

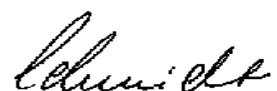
**TEST REPORT PREPARED BY:**

EMC &amp; Radio Engineer:

Harpreet Sidhu

**Technical responsibility for area of testing :**

2001-08-14      EMC &amp; Radio   Lothar Schmidt



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**Date****Section****Name****Signature**

**2.2 Testreport**

**TEST REPORT**

**Testreport no. : 177 FCC/2001  
LAN AP - LW1100AP  
FCC ID:**

**TEST REPORT REFERENCE****LIST OF MEASUREMENTS**

Paragraph	PARAMETER TO BE MEASURED	PAGE
<b>Transmitter parameters</b>		
§ 15.247 (a)(2)	<b>Spectrum Bandwidth of a DSSS System</b>	7
§ 15.247 (b)(1)	<b>Maximum peak output power</b>	11
§ 15.247 (c)(1)	<b>Emission limitations</b>	19
§ 15.247 (d)	<b>Power Spectral Density</b>	33
§ 15.247 (e)	<b>Processing Gain of DSSS System</b>	37
§ 15.107	<b>Conducted emissions</b>	40
<b>Receiver parameters</b>		
§ 15.209	<b>Receiver Spurious Radiation</b>	42
<b>Test equipment listing</b>		
<b>Test Site</b>		
<b>Photographs of the equipment</b>		
		53

**SPECTRUM BANDWIDTH OF DSSS-SYSTEM****SUBCLAUSE § 15.247 (a)(2)**

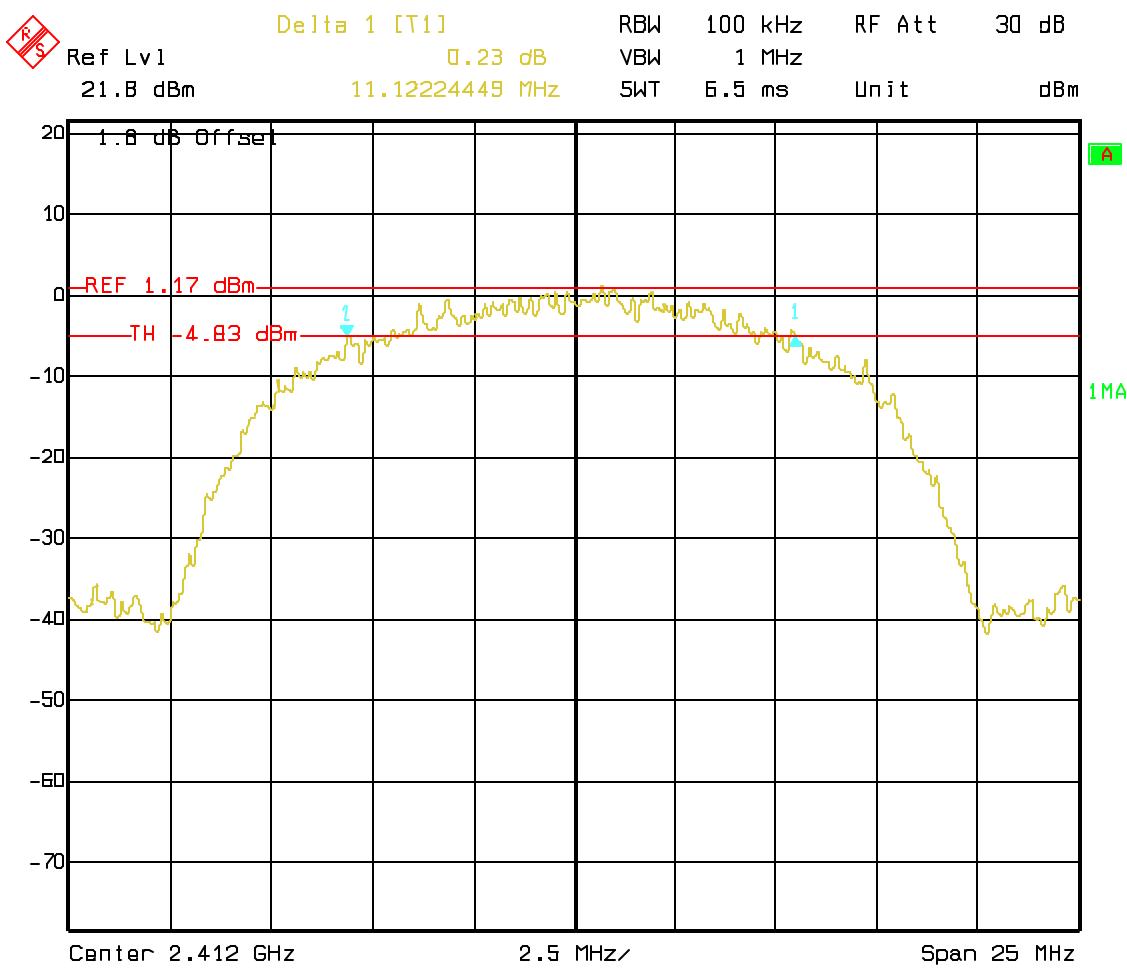
TEST CONDITIONS		6 dB BANDWIDTH ( kHz )		
Frequency (MHz)		2412	2437	2462
$T_{\text{nom}}$ ( 23 )°C	$V_{\text{nom}}$ (5.0)V	11122	11122	11122
Measurement uncertainty		$\pm 3$ dB		

**LIMIT****SUBCLAUSE §15.247(a) (2)**

The minimum 6dB bandwidth shall be at least 500 KHz

**SPECTRUM BANDWIDTH OF DSSS-SYSTEM****SUBCLAUSE § 15.247 (a)(2)**

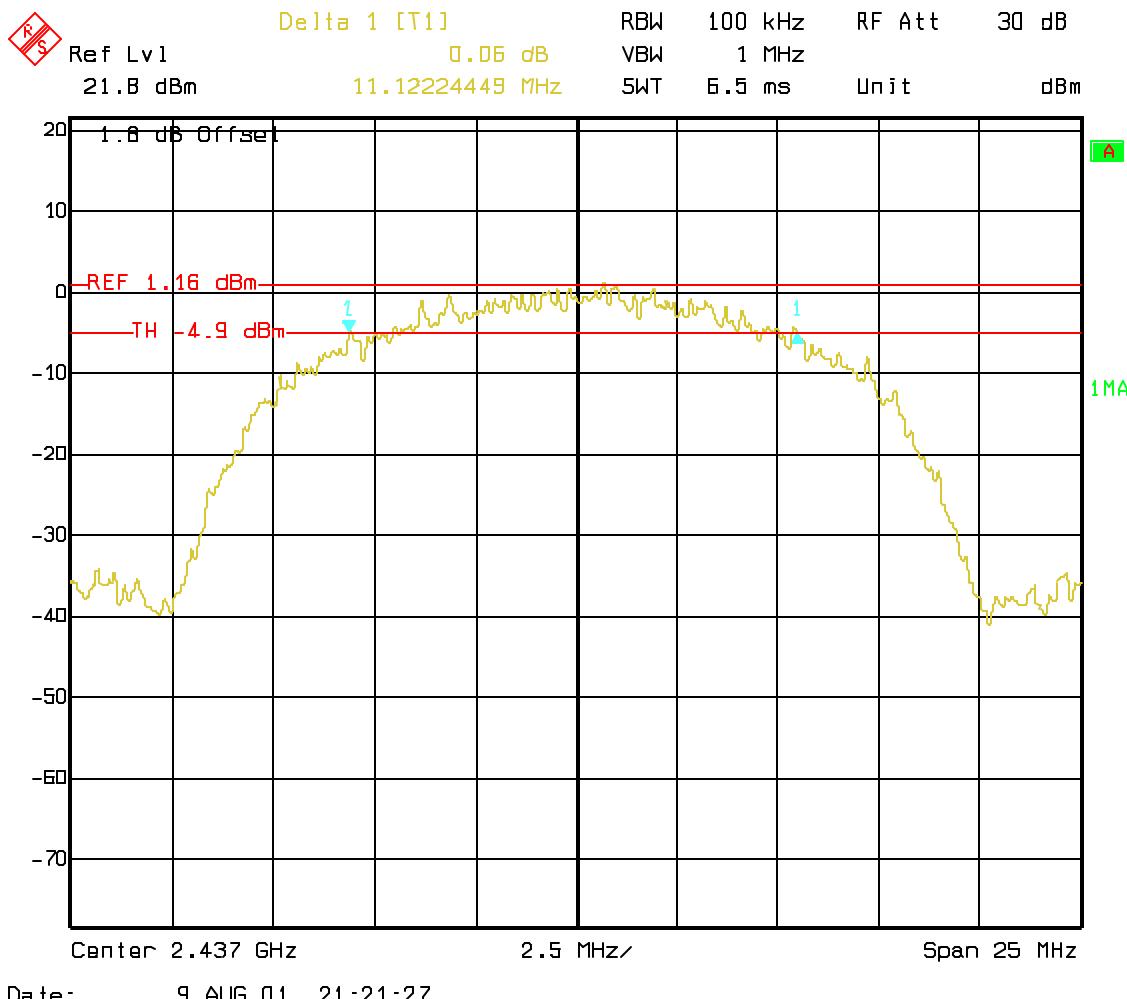
Lowest Channel: 2412 MHz

**LIMIT****SUBCLAUSE §15.247(a) (2)**

The minimum 6dB bandwidth shall be at least 500 KHz, here 11.122 MHz

**SPECTRUM BANDWIDTH OF DSSS-SYSTEM****SUBCLAUSE § 15.247 (a)(2)**

Mid Channel: 2437 MHz

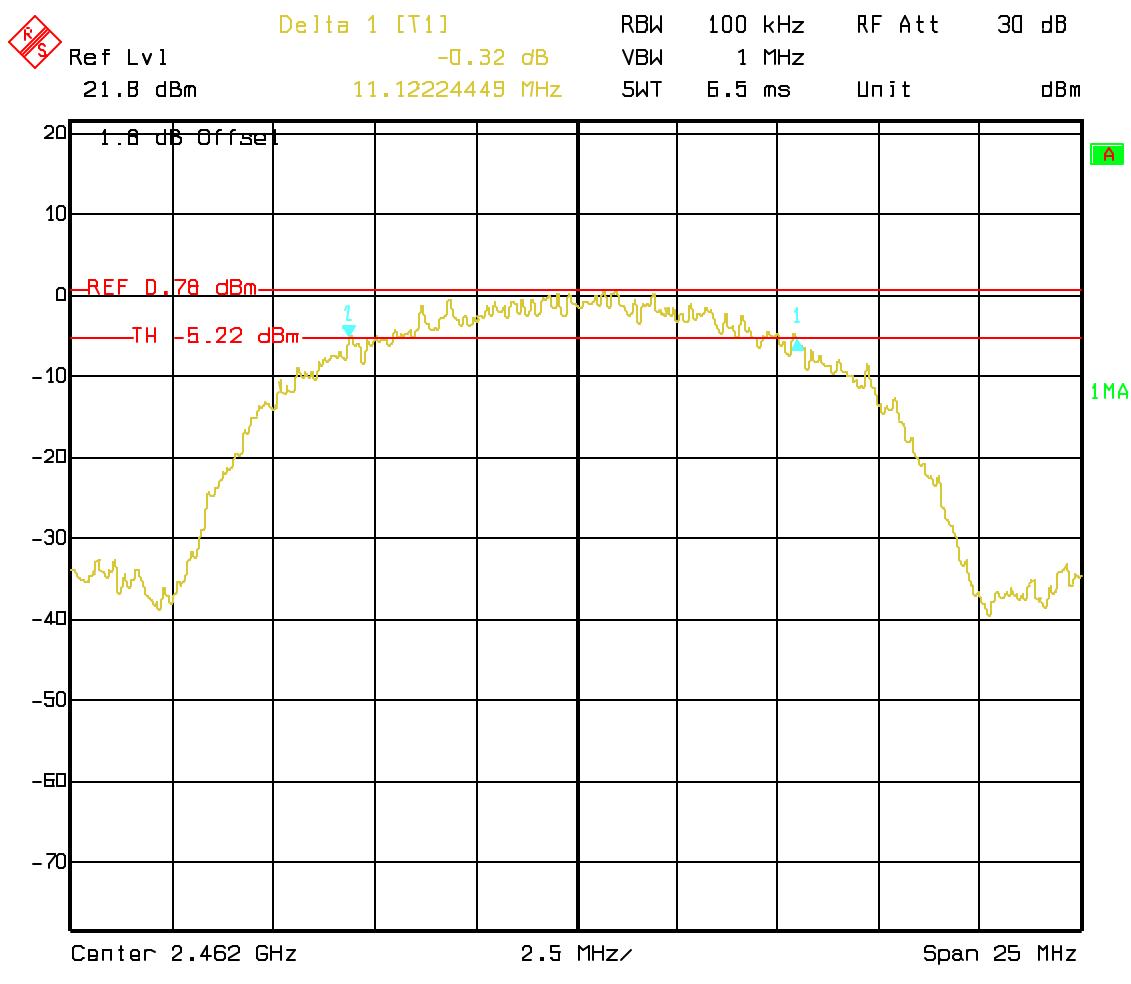
**LIMIT****SUBCLAUSE §15.247(a) (2)**

The minimum 6dB bandwidth shall shall be at least 500 KHz , here 11.122 MHz



**SPECTRUM BANDWIDTH OF DSSS-SYSTEM****SUBCLAUSE § 15.247 (a)(2)**

Highest Channel: 2462 MHz

**LIMIT****SUBCLAUSE §15.247(a) (2)****The minimum 6dB bandwidth shall shall be at least 500 KHz , here 11.122 MHz**



**MAXIMUM PEAK OUTPUT POWER  
(CONDUCTED)****SUBCLAUSE § 15.247 (b) (1)**

<b>TEST CONDITIONS</b>		<b>MAXIMUM PEAK OUTPUT POWER (dBm)</b>					
		<b>2412</b>		<b>2437</b>		<b>2462</b>	
<b>T<sub>nom</sub>( 23 )°C</b>	<b>V<sub>nom</sub>(5.0)V</b>	Pk	<b>11.69</b>	Pk	<b>11.67</b>	Pk	<b>11.25</b>
		Av	<b>6.56</b>	Av	<b>6.68</b>	Av	<b>6.28</b>
<b>Measurement uncertainty</b>		<b>±3dB</b>					

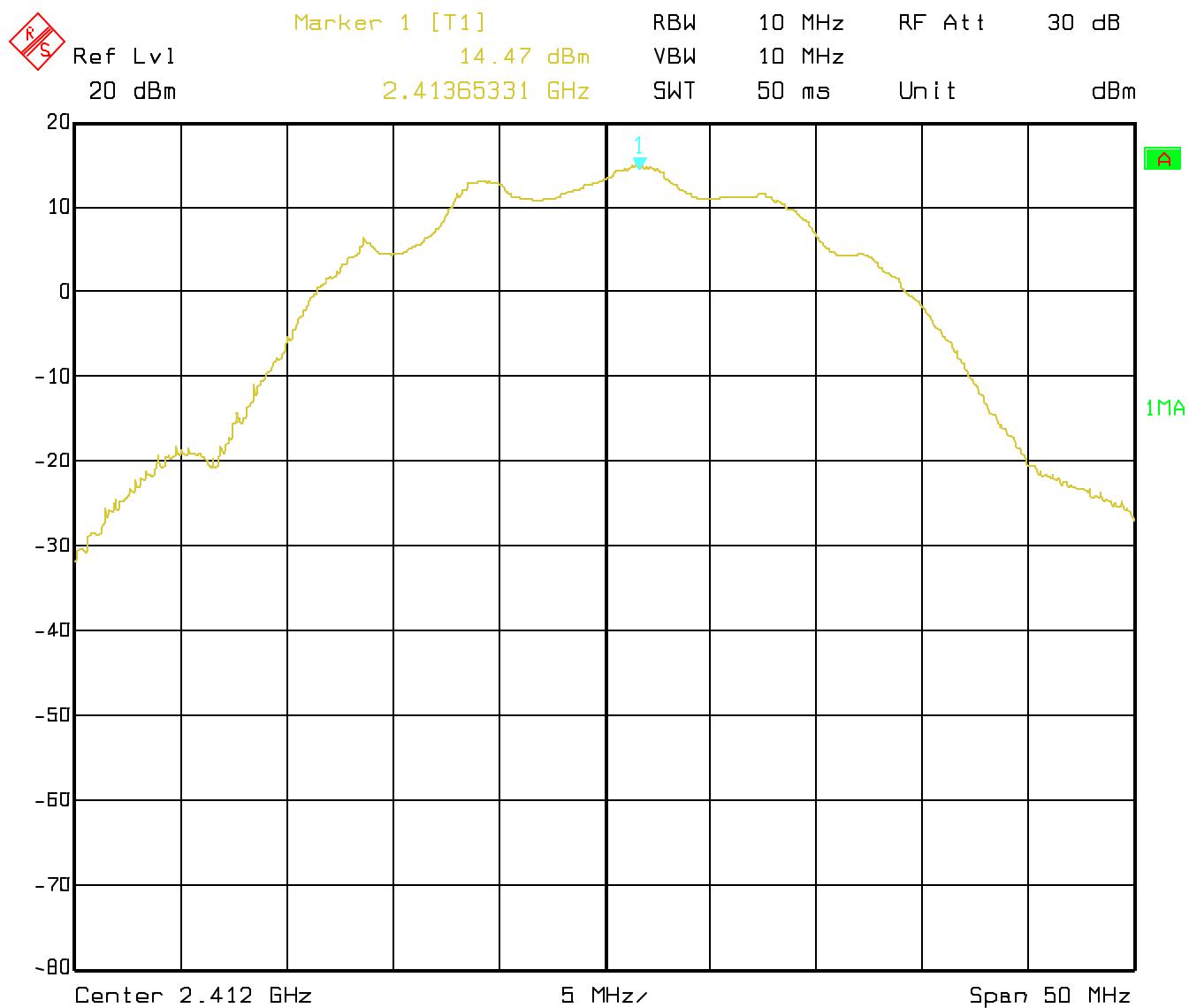
**LIMIT****SUBCLAUSE § 15.247 (b) (1)**

<b>Frequency range</b>	<b>RF power output</b>
<b>2400-2483.5 MHz / 5725 – 5850 MHz</b>	<b>1.0 Watt</b>

**MAXIMUM PEAK OUTPUT POWER (CONDUCTED)**

Lowest Channel: 2412 MHz

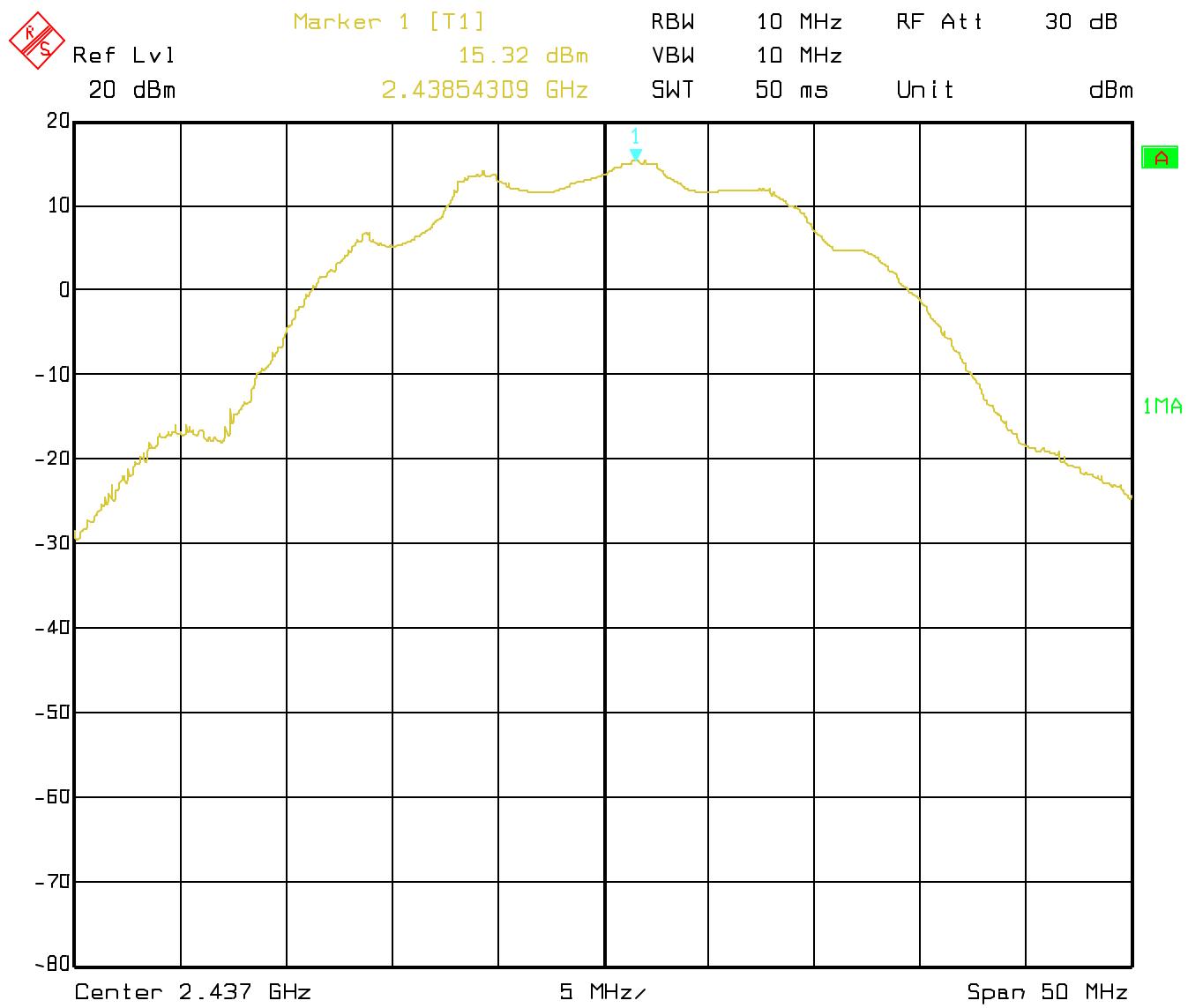
The RBW was set to the maximum available bandwidth of the Analyzer (10MHz). This is valid for the conducted output power as well as for the EIRP measurements.



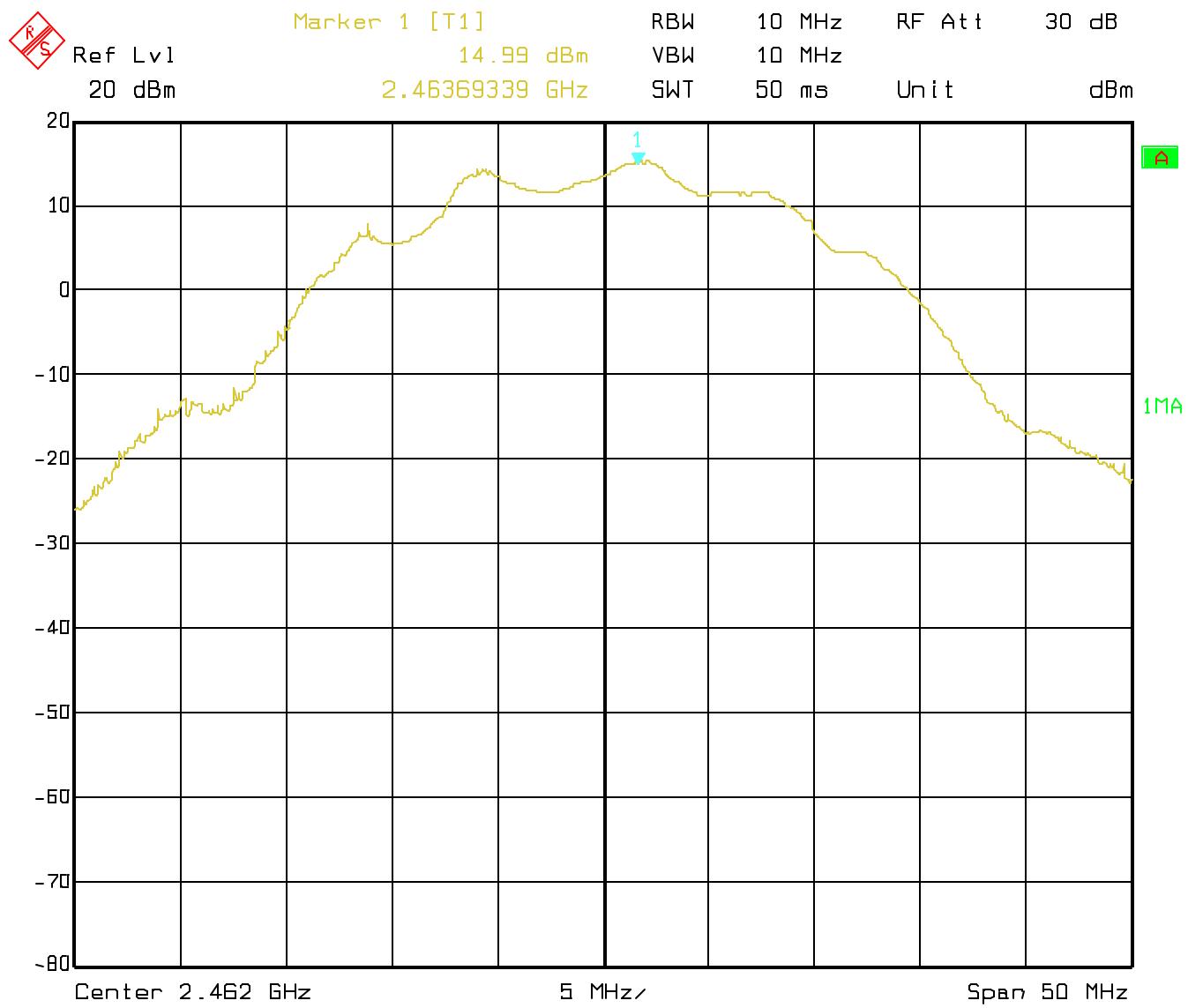
Date: 19.0CT.01 0:55:19

**MAXIMUM PEAK OUTPUT POWER (CONDUCTED)**

Mid Channel: 2437 MHz



Date: 19. OCT. 01 0:56:31

**MAXIMUM PEAK OUTPUT POWER (CONDUCTED)****Highest Channel: 2462 MHz**

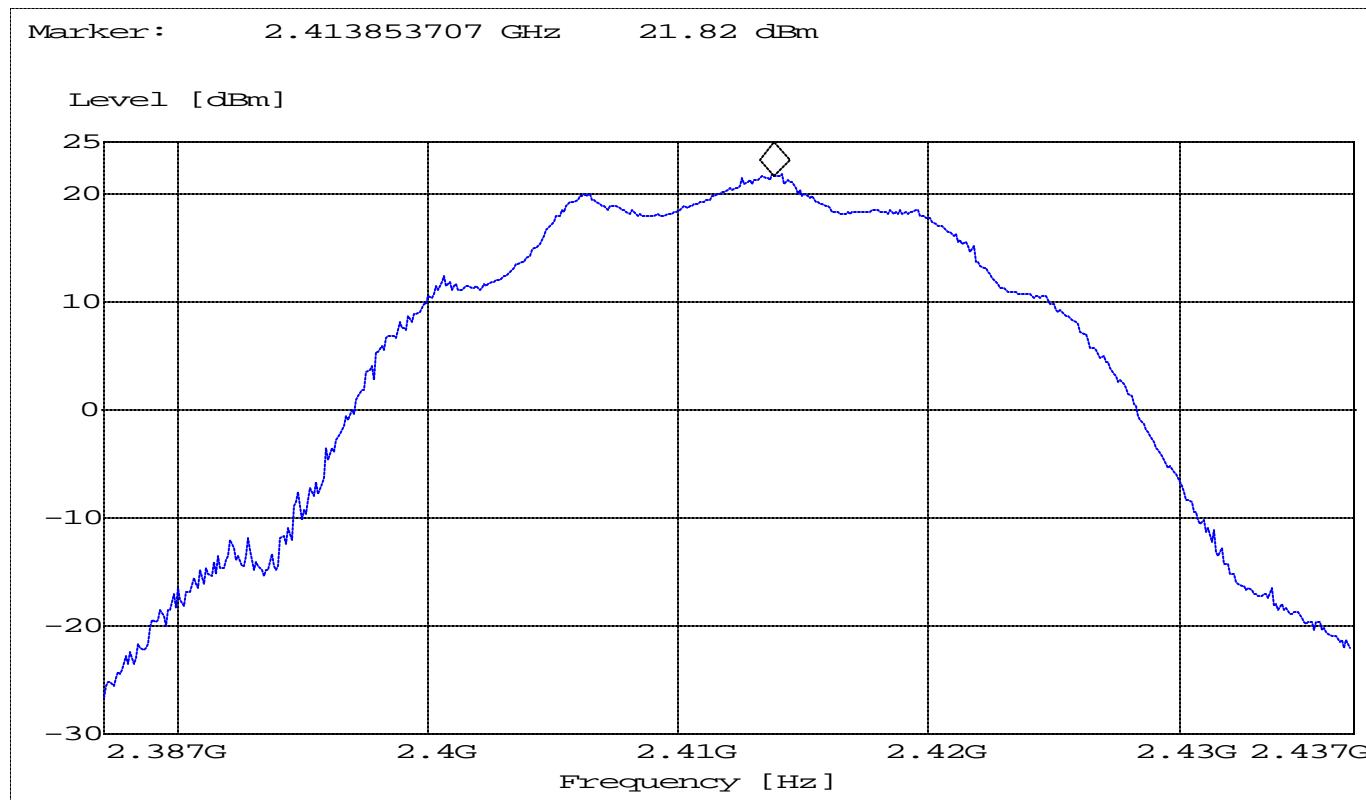
Date: 19.OCT.01 0:57:29

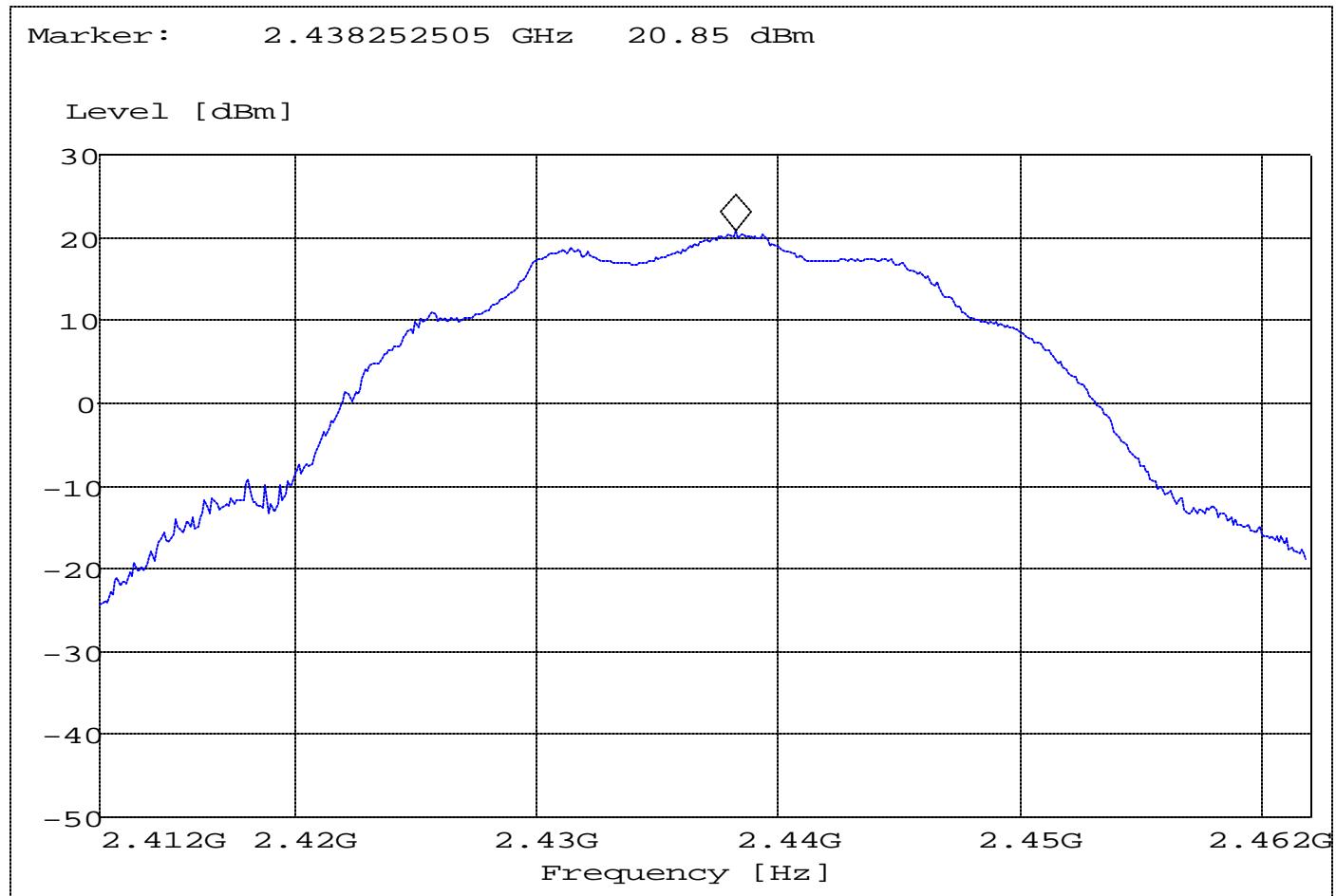
**MAXIMUM PEAK OUTPUT POWER (EIRP)  
(RADIATED)****SUBCLAUSE § 15.247 (b) (1)**

<b>TEST CONDITIONS</b>		<b>MAXIMUM PEAK OUTPUT POWER (dBm)</b>					
		<b>2412</b>		<b>2437</b>		<b>2462</b>	
<b>T<sub>nom</sub>( 23 )° C</b>	<b>V<sub>nom</sub>(5.0)V</b>	<b>Pk</b>	<b>15.61</b>	<b>Pk</b>	<b>14.84</b>	<b>Pk</b>	<b>15.46</b>
		<b>Av</b>	<b>11.12</b>	<b>Av</b>	<b>10.09</b>	<b>Av</b>	<b>10.78</b>
<b>Measurement uncertainty</b>		<b>±3dB</b>					

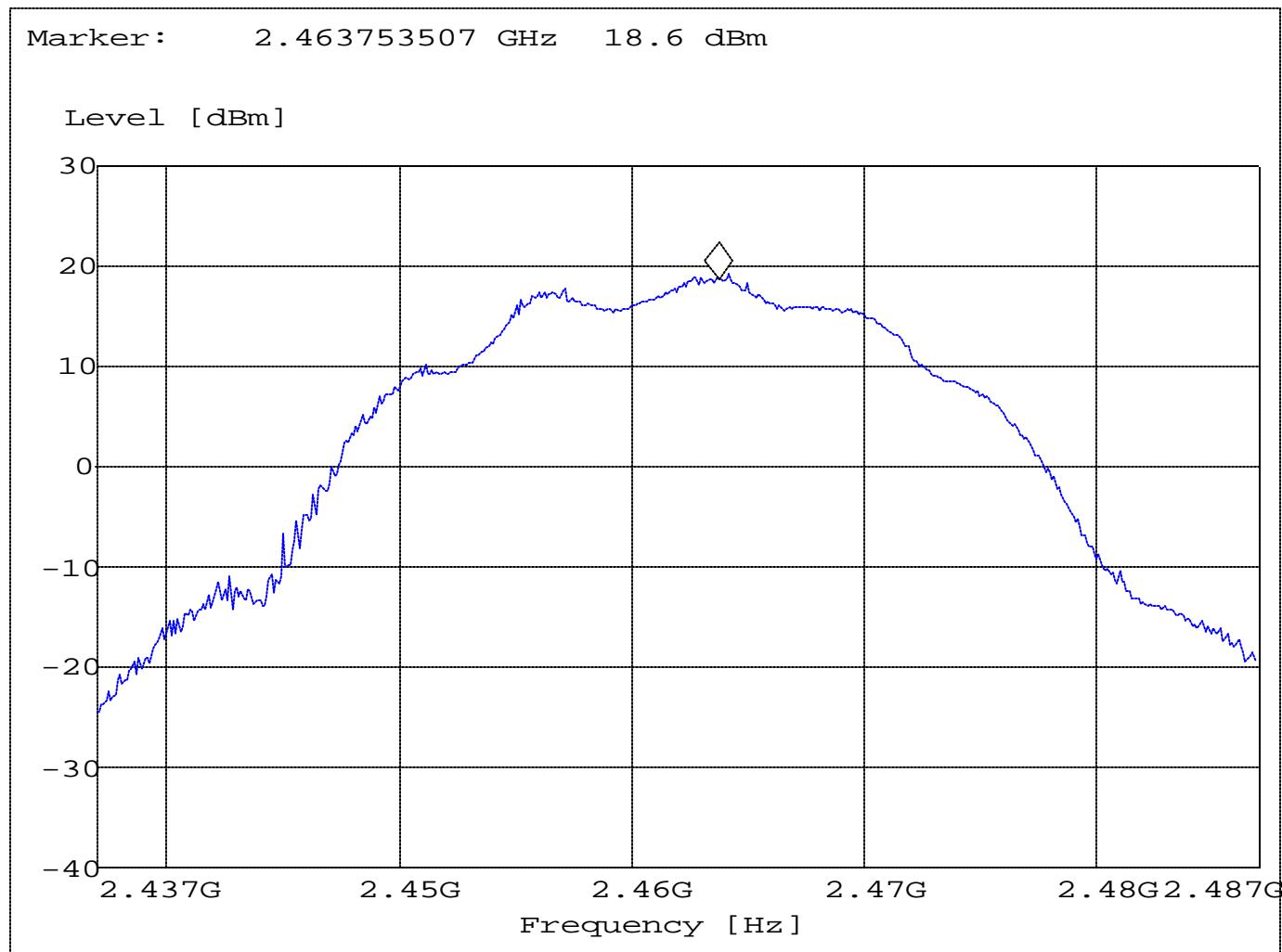
**LIMIT****SUBCLAUSE § 15.247 (b) (1)**

<b>Frequency range</b>	<b>RF power output</b>
<b>2400-2483.5 MHz / 5725 – 5850 MHz</b>	<b>1.0 Watt</b>

**EIRP - Lowest Channel: 2412 MHz****ANALYZER SETTINGS: RBW=10MHz, VBW=10MHz**

**EIRP – Mid Channel: 2437 MHz**

ANALYZER SETTINGS: RBW=10MHz , VBW=10MHz

**EIRP – Highest Channel: 2462 MHz**

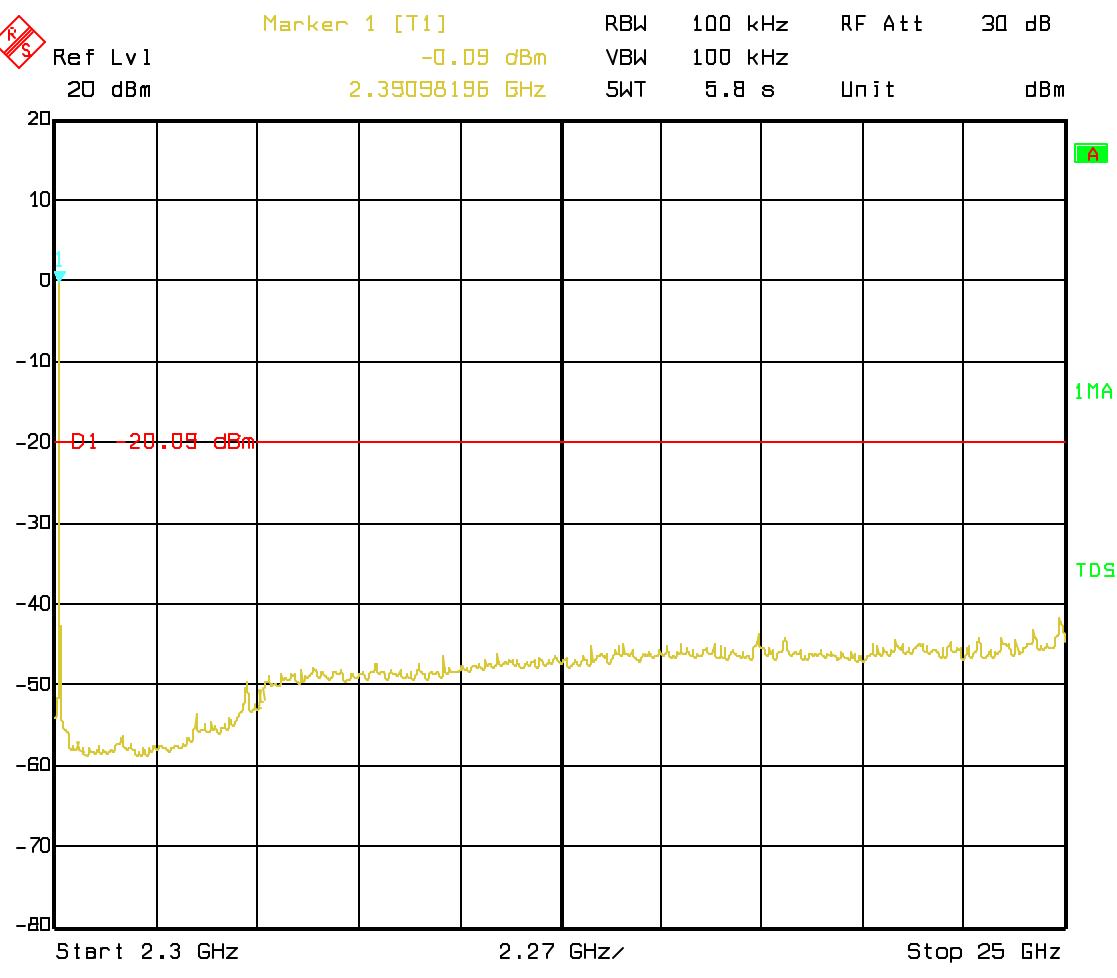
ANALYZER SETTINGS: RBW=10MHz, VBW=10MHz

## EMISSION LIMITATIONS (Transmitter)

## SUBCLAUSE § 15.247 (c) (1)

conducted

2412 MHz up to 25 GHz



## LIMITS

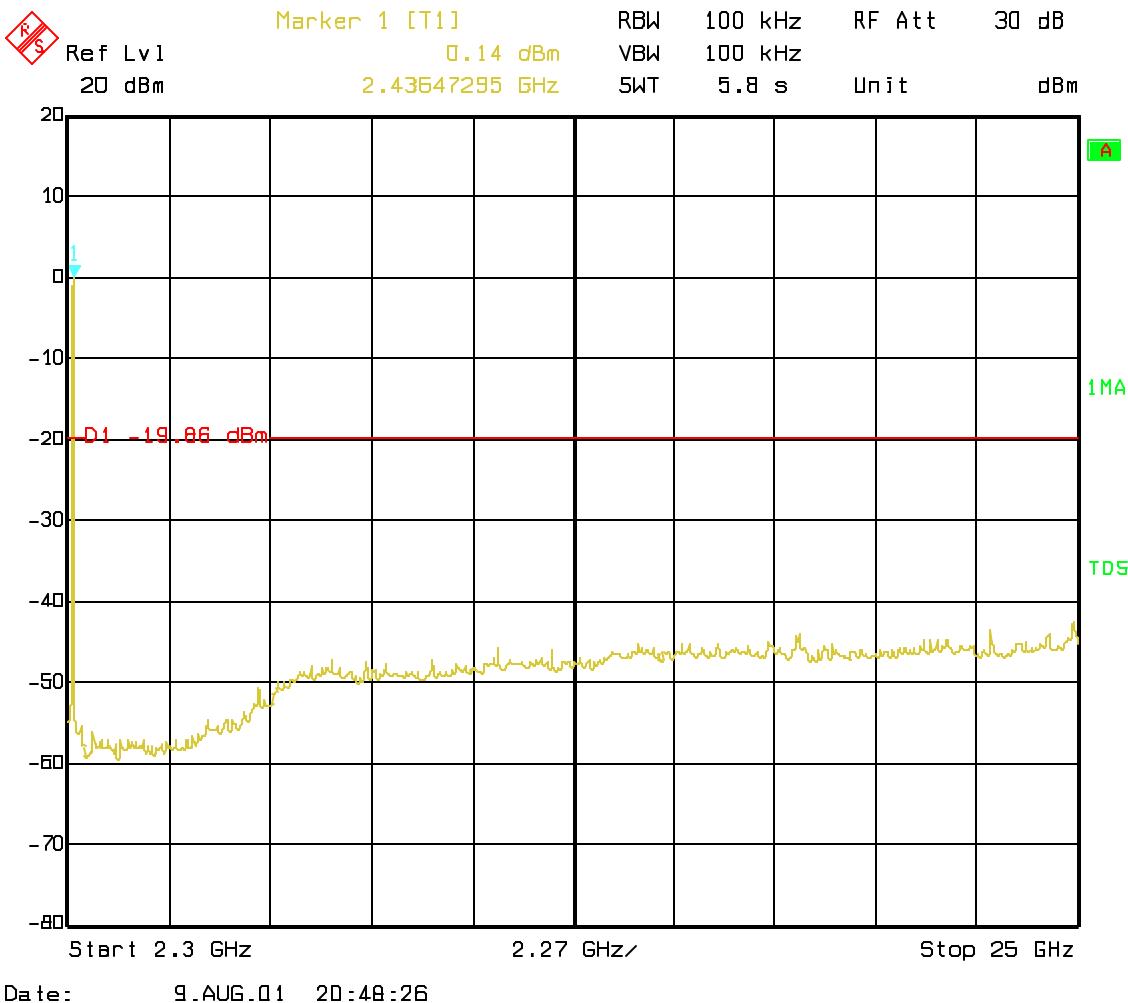
## SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

NOTE: The marked peak is the carrier frequency. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.

**EMISSION LIMITATIONS (Transmitter)**  
**conducted**  
**2437 MHz up to 25 GHz**

**SUBCLAUSE § 15.247 (c) (1)**



**LIMITS**

**SUBCLAUSE § 15.247 (c)**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

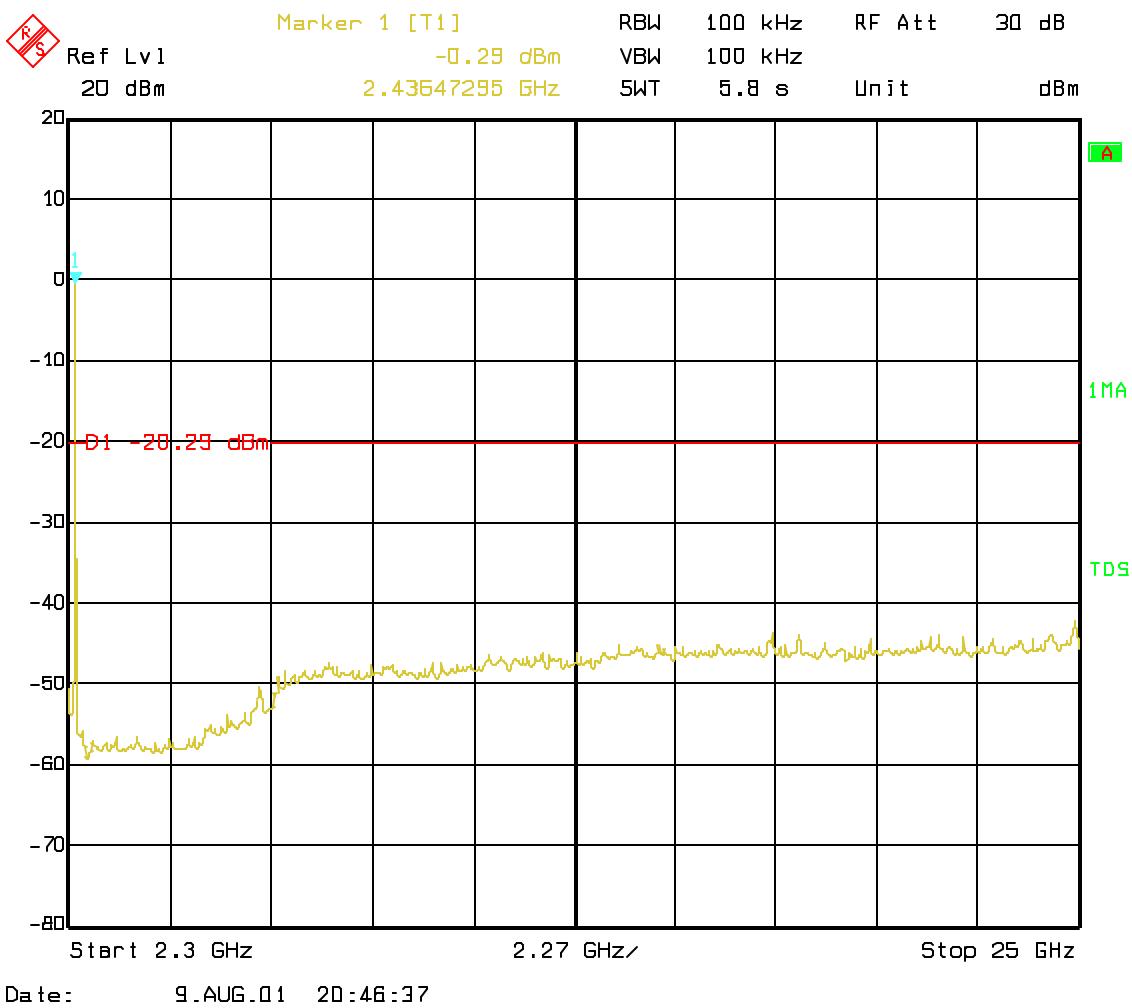
NOTE: The marked peak is the carrier frequency. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.

## EMISSION LIMITATIONS (Transmitter)

## SUBCLAUSE § 15.247 (c) (1)

conducted

2462 MHz up to 25 GHz



## LIMITS

## SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

NOTE: The marked peak is the carrier frequency. Frequency resolution is not fine enough to show the exact

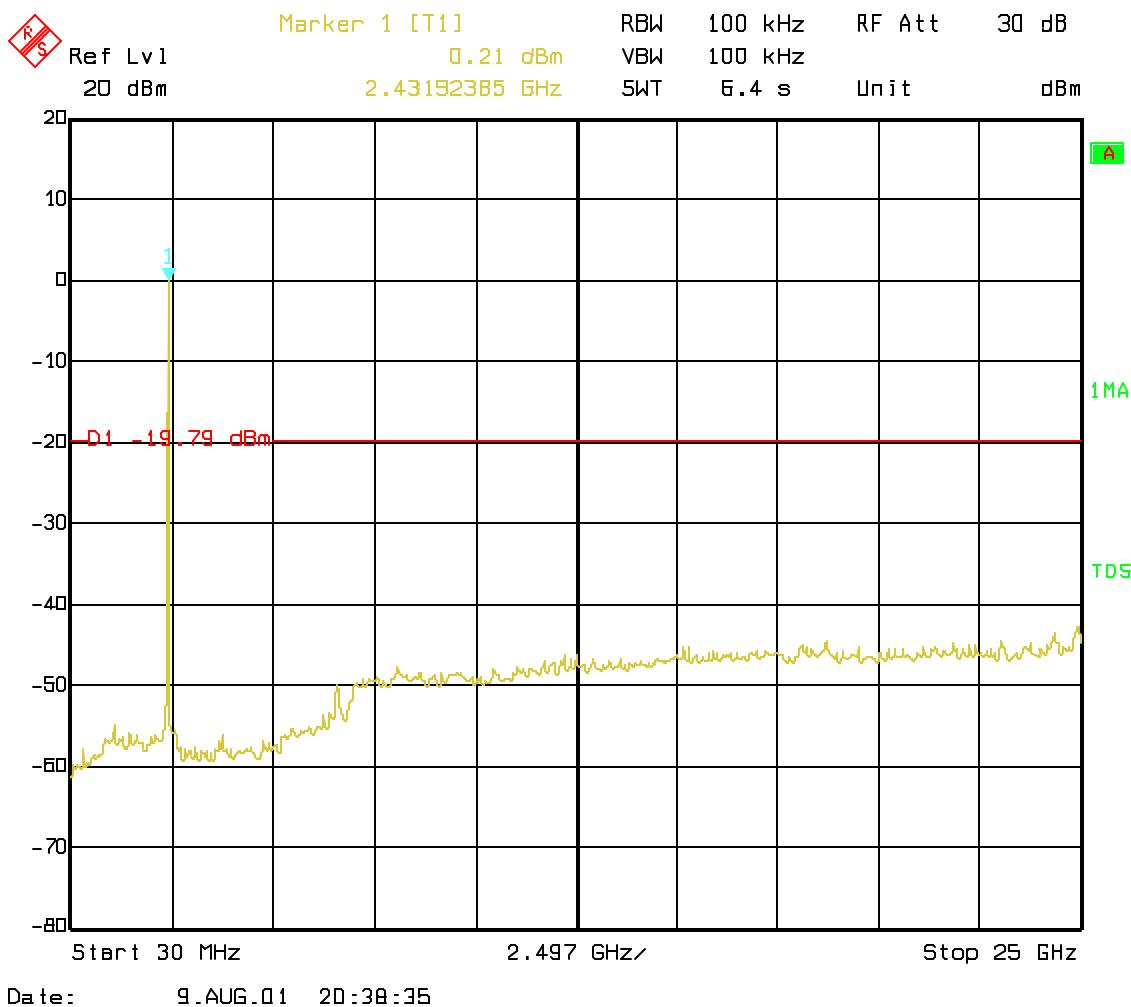
frequency of the carrier, refer to plots under EIRP.

## EMISSION LIMITATIONS (Transmitter)

## SUBCLAUSE § 15.247 (c) (1)

Conducted

30 MHz up to 25 GHz (This plot is valid for low, mid &amp; high channels)



## LIMITS

## SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

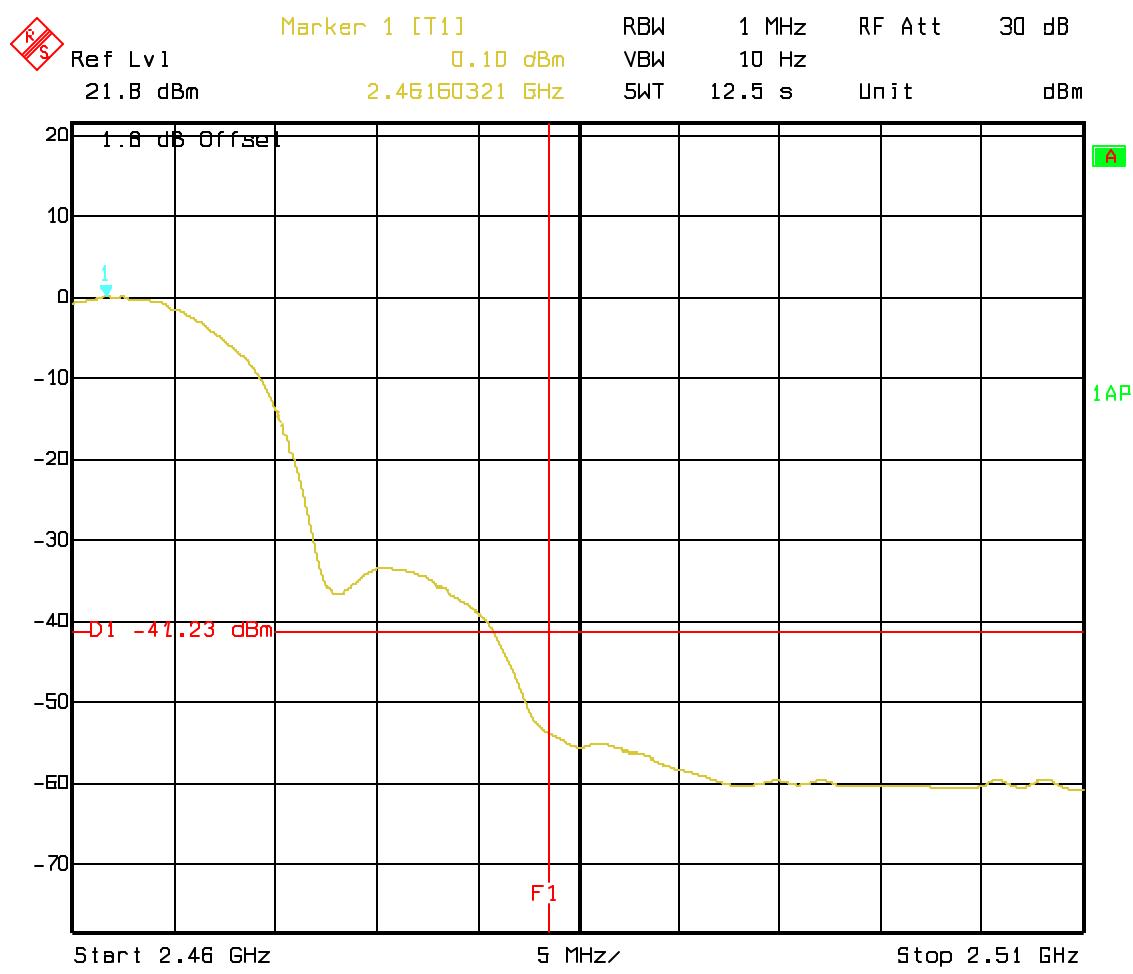
NOTE: The marked peak is the carrier frequency. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.

## EMISSION LIMITATIONS (Transmitter)

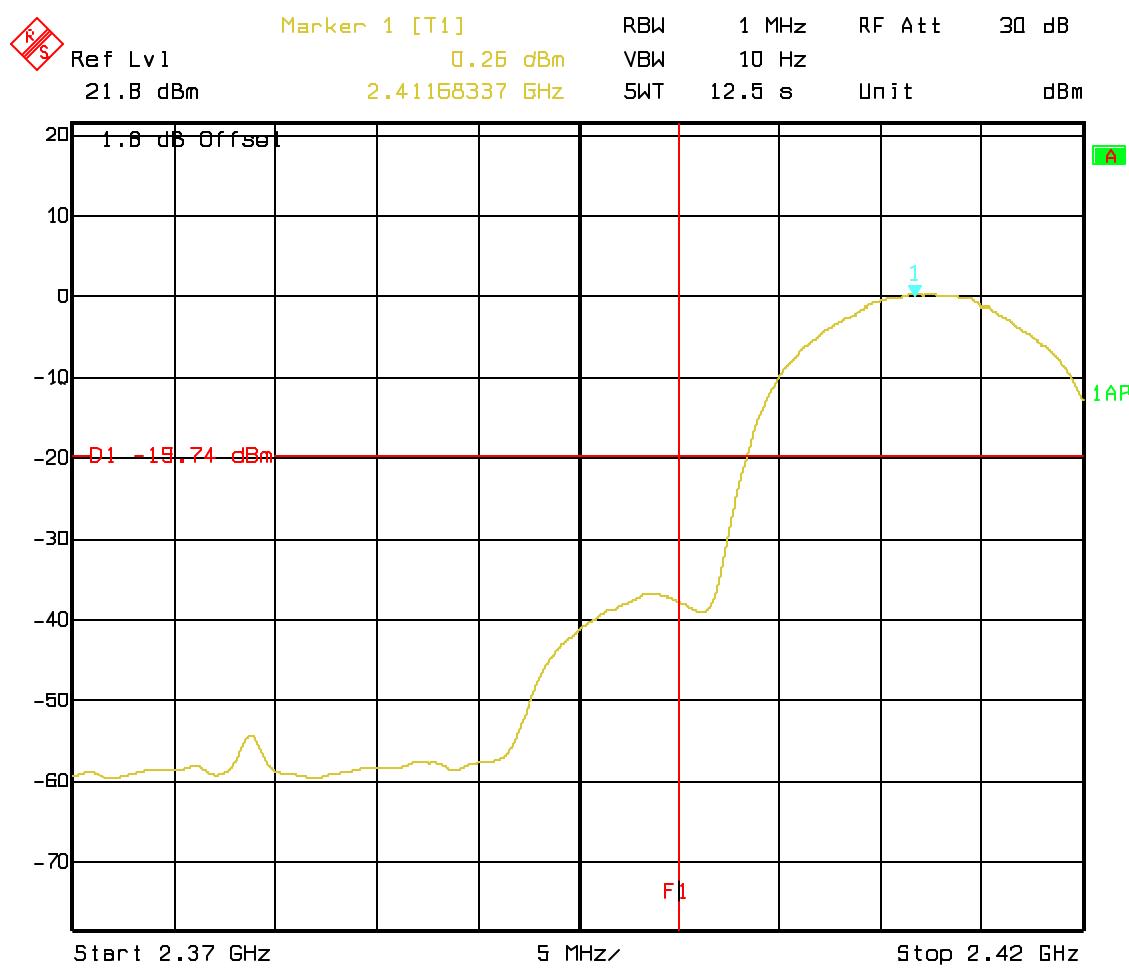
## SUBCLAUSE § 15.247 (c) (2)

conducted

spurious in the restricted band 2483.5 – 2500 MHz  
(Higher Band Edge)



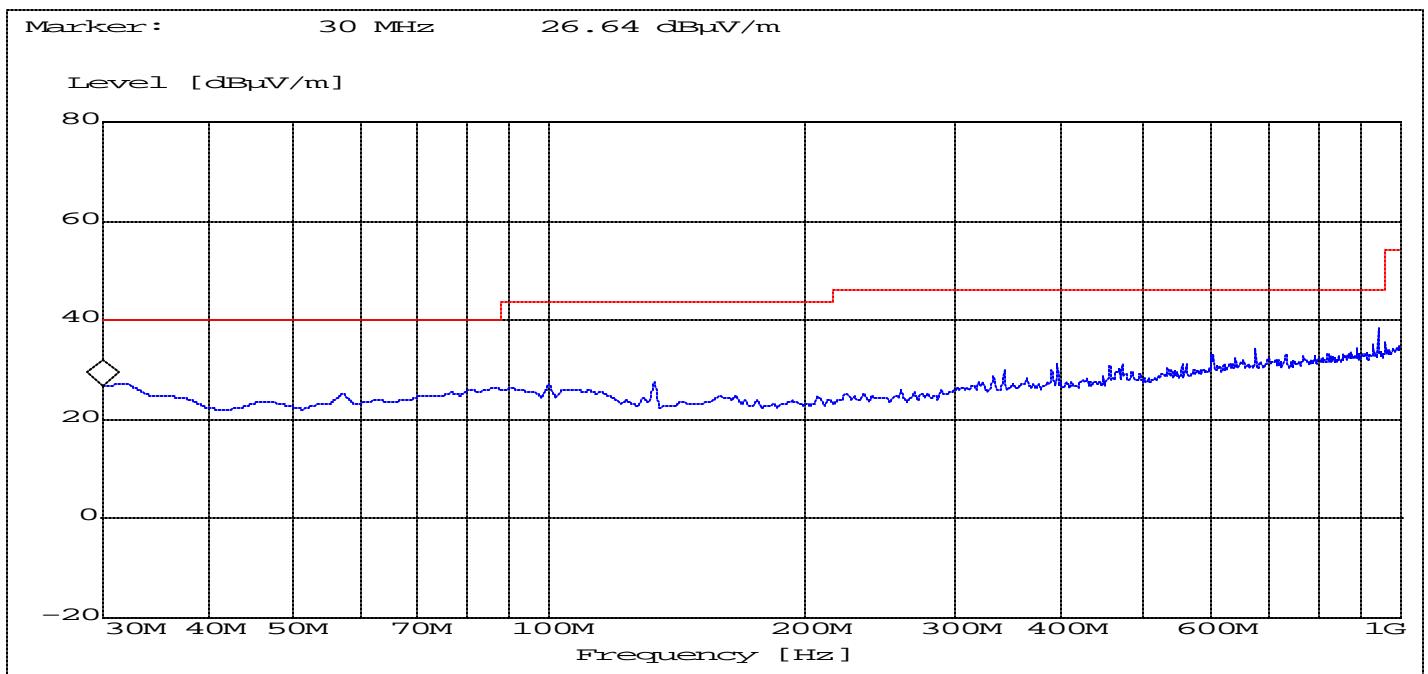


**Lower Band Edge****conducted**

**EMISSION LIMITATIONS (Transmitter)****SUBCLAUSE § 15.247 (c) (1)**

The spurious emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 18 and 26 GHz very short cable connections to the antenna was used to minimize the noise level. Channel 1: 2412 MHz; Channel 2: 2437 MHz; Channel 3: 2462 MHz.

**All emission measurements were done in Peak mode to reduce measurement time. In case limits are exceeded the measurements will be repeated and documented in the test report either with Quasi Peak or average detector depending on the frequency range specified in FCC 15 and/or DA00-705. Bandwidth, sweep time etc. were set according DA00-705 and recorded**

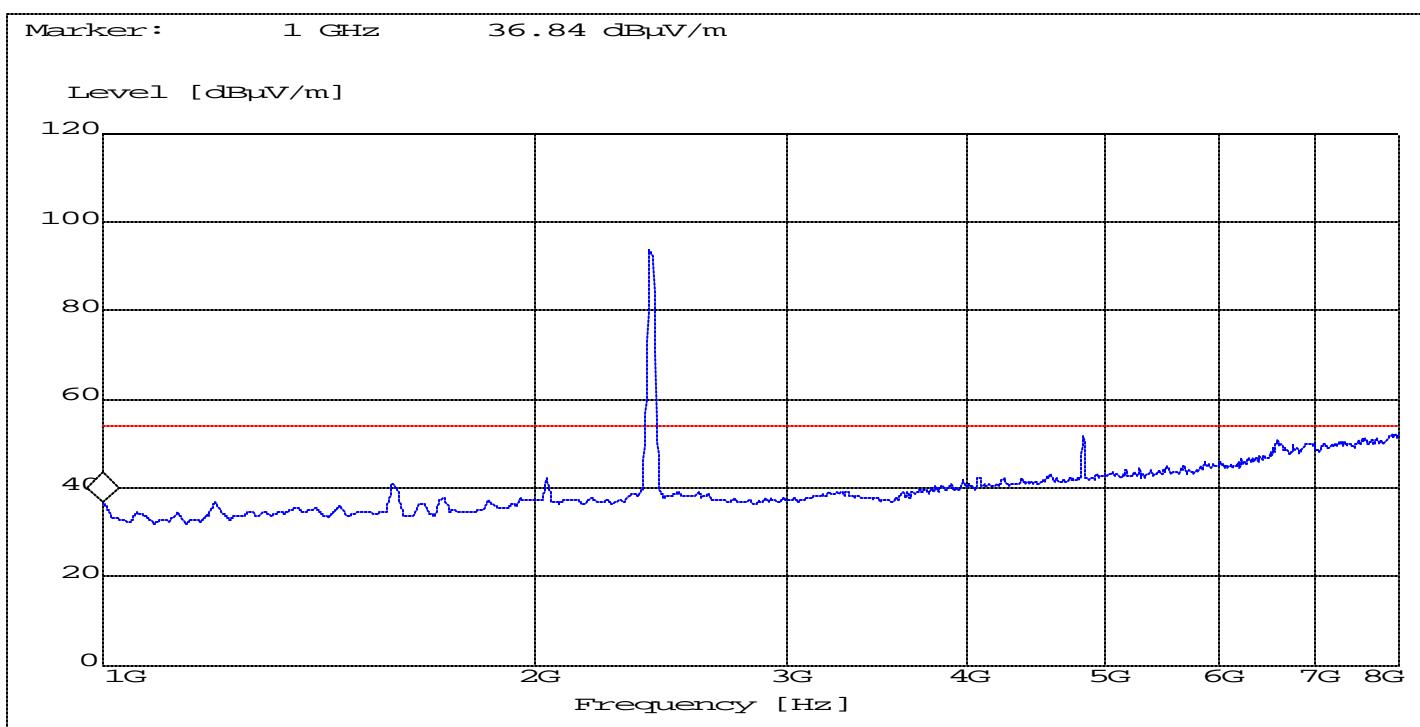
**Lowest Channel(2412MHz): 30MHz-1GHz****LIMITS****SUBCLAUSE § 15.247 (c)**

**In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).**

**ANALYZER SETTINGS:** f < 1 GHz : RBW/VBW: 100 kHz      f³ 1GHz : RBW/VBW: 1 MHz

**EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)****Lowest Channel(2412MHz): 1GHz-8GHz**

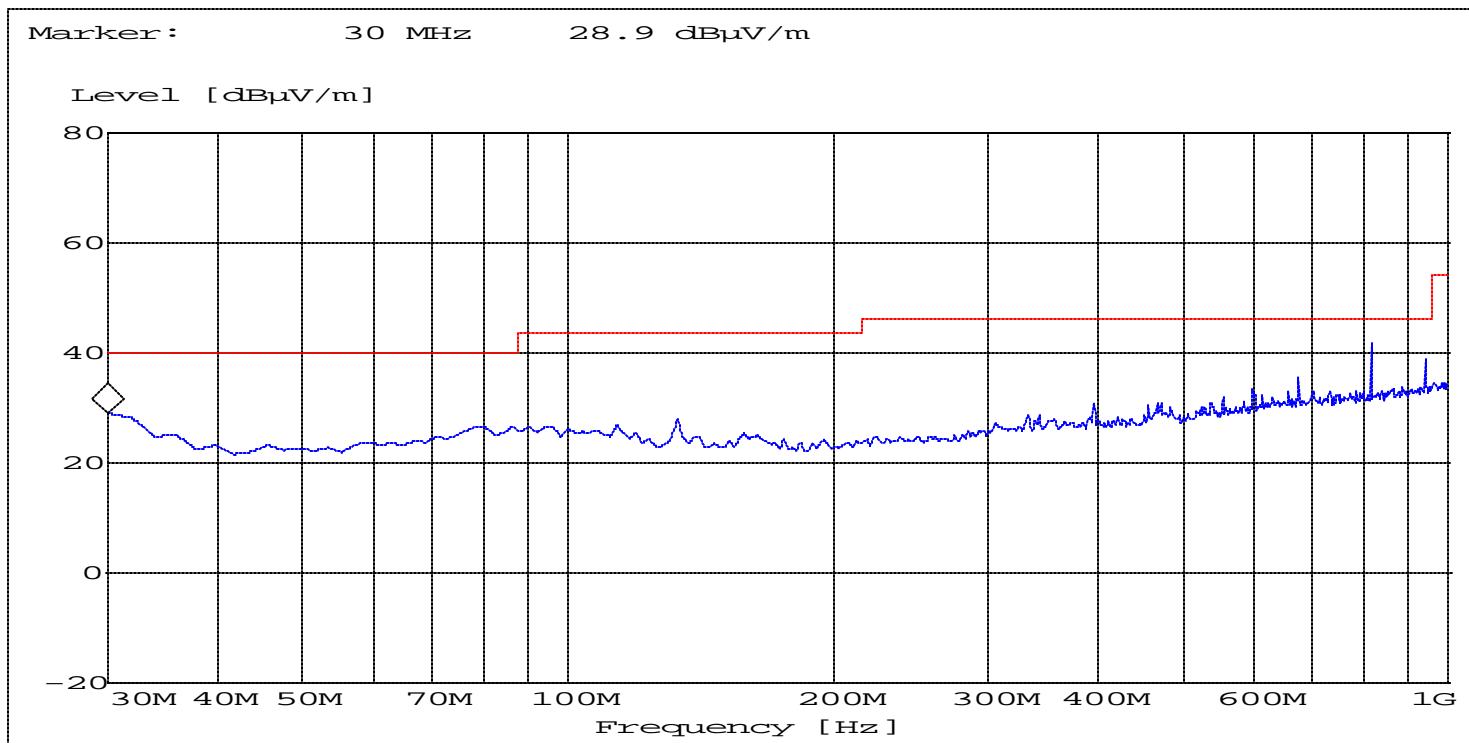
**NOTE:** The peak above the limit is the carrier frequency. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.

**LIMITS****SUBCLAUSE § 15.247 (c)**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

ANALYZER SETTINGS: f &lt; 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

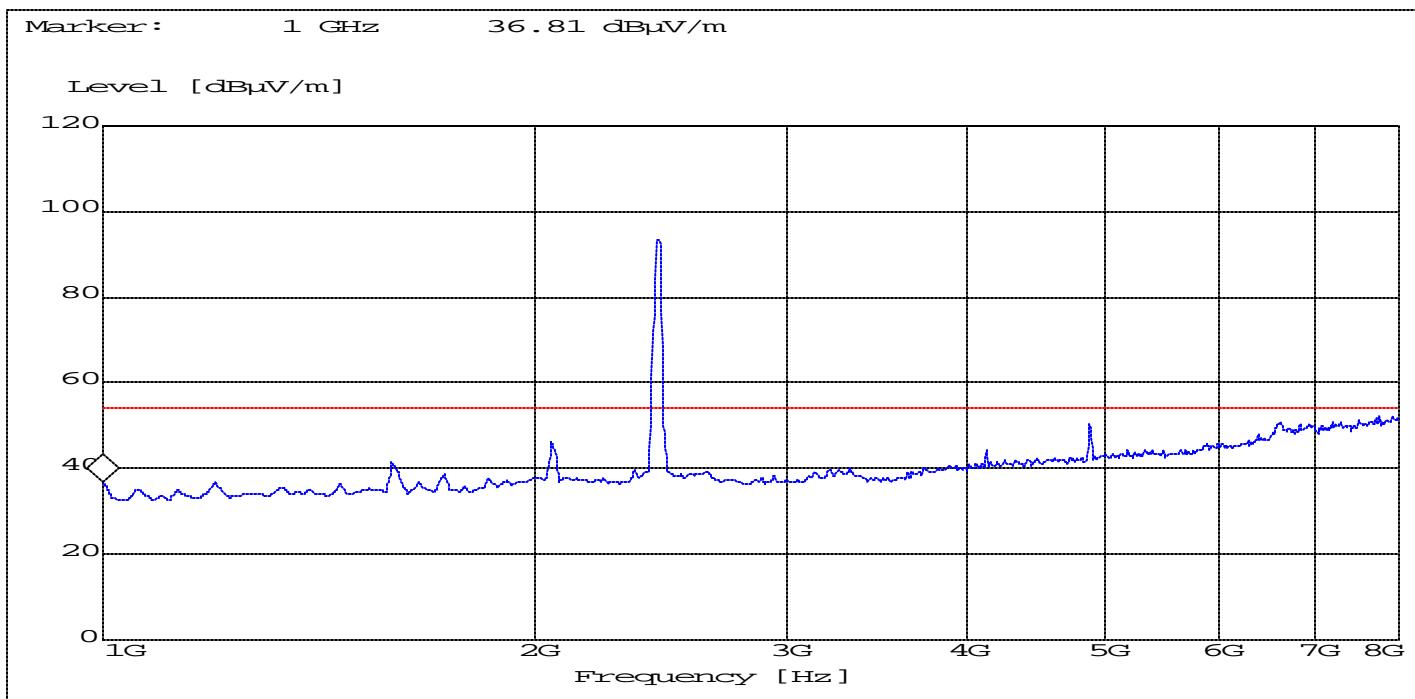
**EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)****Mid Channel(2437MHz): 30MHz -1GHz****LIMITS****SUBCLAUSE § 15.247 (c)**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

ANALYZER SETTINGS:  $f < 1$  GHz : RBW/VBW: 100 kHz $f \geq 1$  GHz : RBW/VBW: 1 MHz

**EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)****Mid Channel(2437MHz): 1GHz -8GHz**

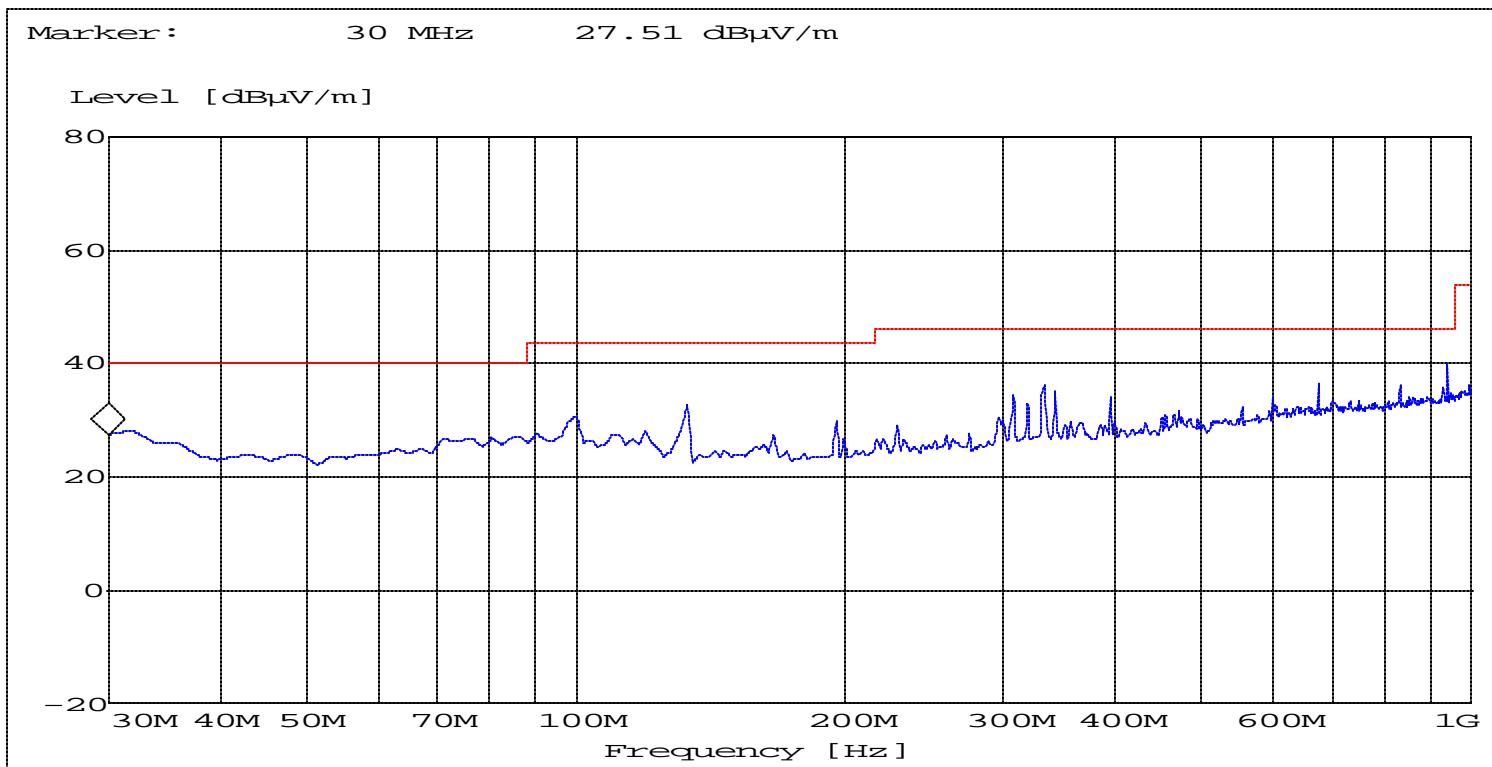
**NOTE: The peak above the limit is the carrier frequency. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.**

**LIMITS****SUBCLAUSE § 15.247 (c)**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

ANALYZER SETTINGS: f &lt; 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

**EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)****Highest Channel(2462MHz): 30MHz -1GHz****LIMITS****SUBCLAUSE § 15.247 (c)**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

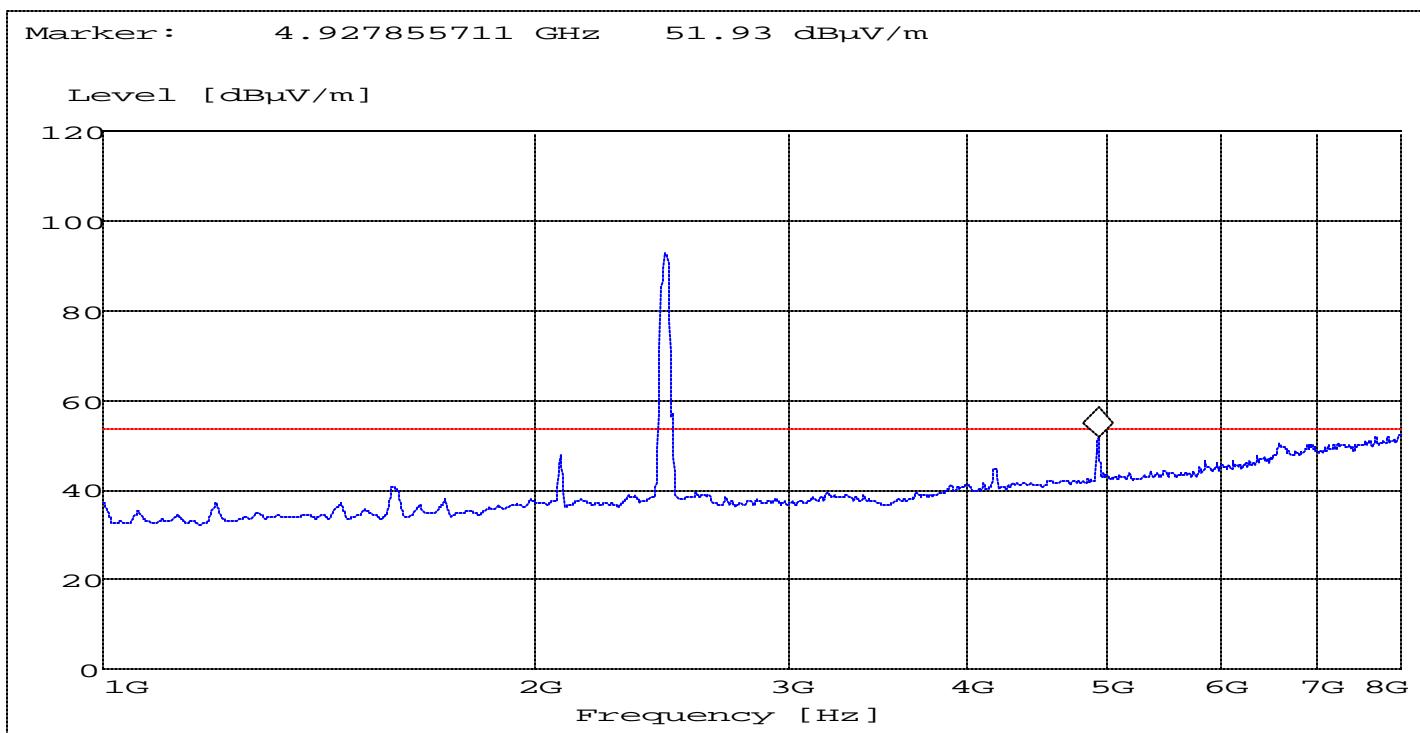
ANALYZER SETTINGS: f &lt; 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

## EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)

Highest Channel(2462MHz): 1GHz -8GHz

NOTE: The peak above the limit is the carrier frequency. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.



## LIMITS

## SUBCLAUSE § 15.247 (c)

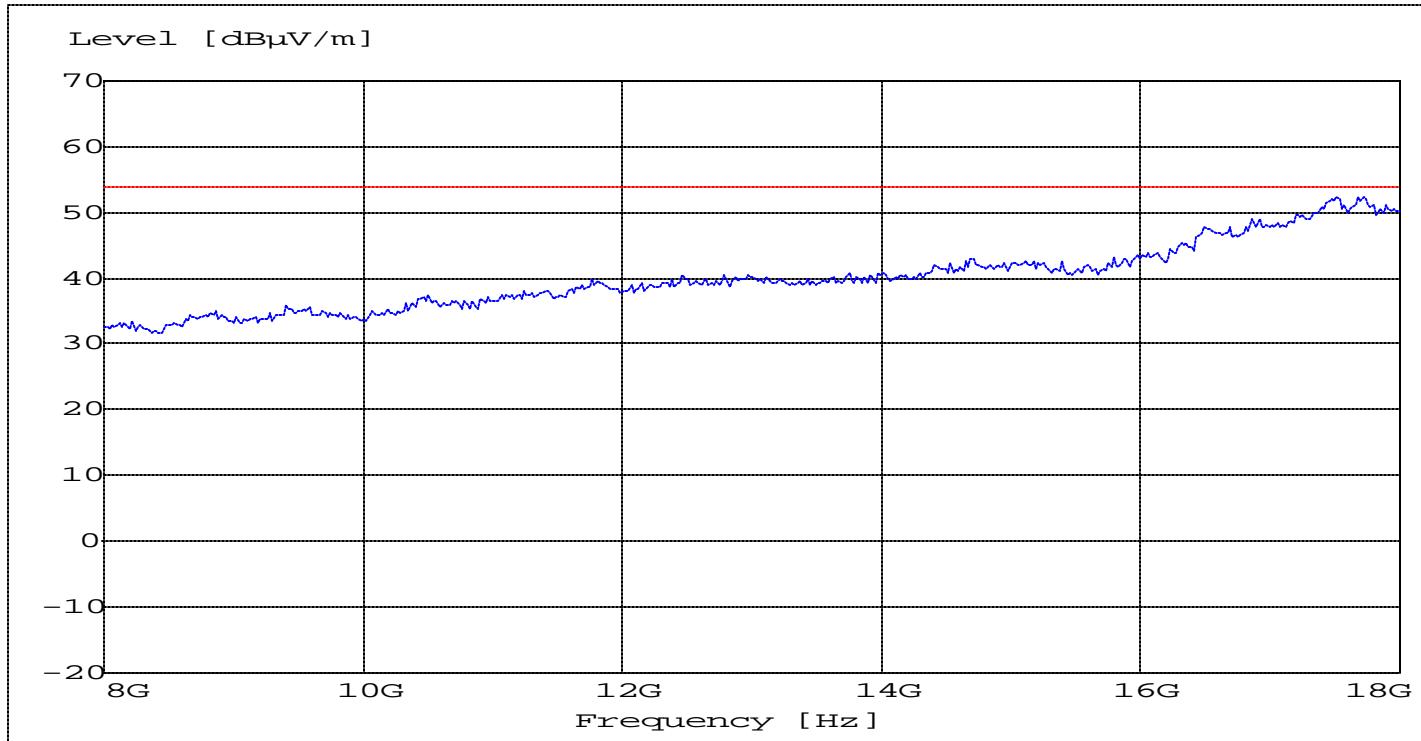
In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

ANALYZER SETTINGS: f &lt; 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

**EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)**

**Highest Channel(2462MHz): 8GHz -18GHz**  
(This plot is valid for low, mid & high channels)

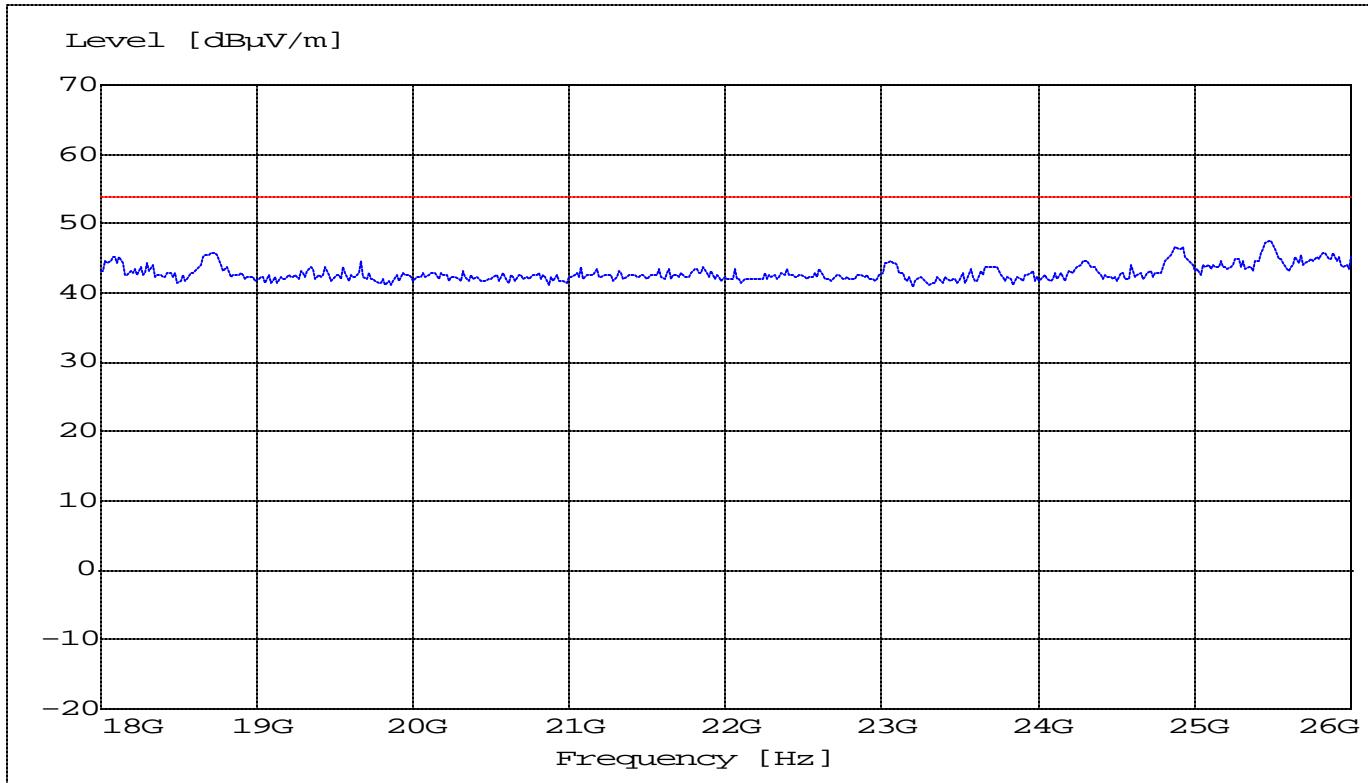
**LIMITS****SUBCLAUSE § 15.247 (c)**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

ANALYZER SETTINGS:  $f < 1$  GHz : RBW/VBW: 100 kHz $f \geq 1$  GHz : RBW/VBW: 1 MHz

**EMISSION LIMITATIONS (Transmitter) SUBCLAUSE § 15.247 (c) (1)**

**Highest Channel(2462MHz): 18GHz -26GHz**  
(This plot is valid for low, mid & high channels)

**LIMITS****SUBCLAUSE § 15.247 (c)**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. 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)).

ANALYZER SETTINGS: f&lt;1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

**POWER SPECTRAL DENSITY****SUBCLAUSE § 15.247 (d)**

<b>TEST CONDITIONS</b>		<b>RF POWER LEVEL IN 3 kHz BW</b>		
		<b>2412</b>	<b>2437</b>	<b>2462</b>
<b>T<sub>nom</sub>( 23 )°C</b>	<b>V<sub>nom</sub>(5.0)V</b>	<b>-13.05 dBm</b>	<b>-13.11dBm</b>	<b>-13.41 dBm</b>
<b>Measurement uncertainty</b>		<b>±3dB</b>		

**LIMIT****SUBCLAUSE §15.247(d)**

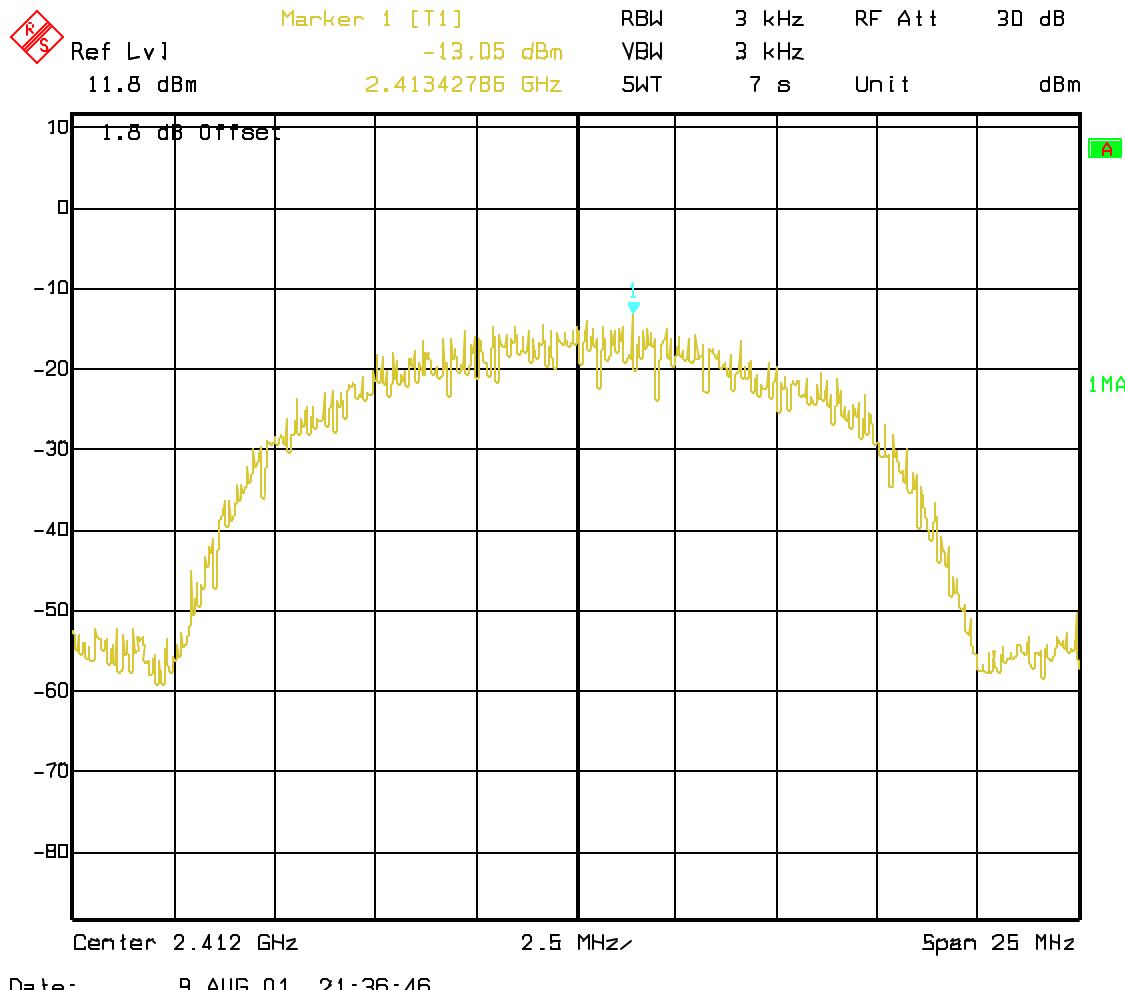
The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

**ANALYZER SETTINGS: RBW=3KHz , VBW=3KHz**

## POWER SPECTRAL DENSITY

## SUBCLAUSE § 15.247 (d)

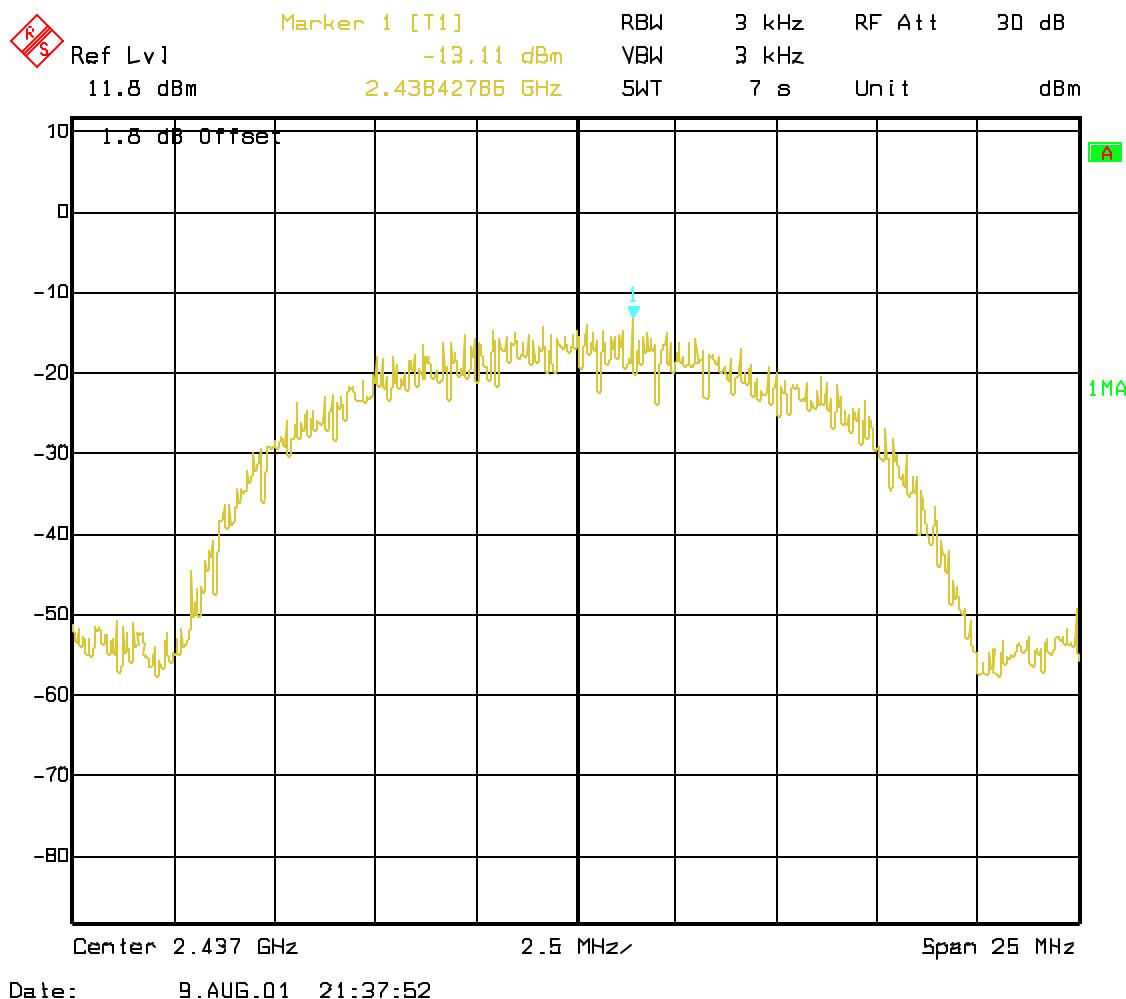
Lowest Channel: 2412 MHz



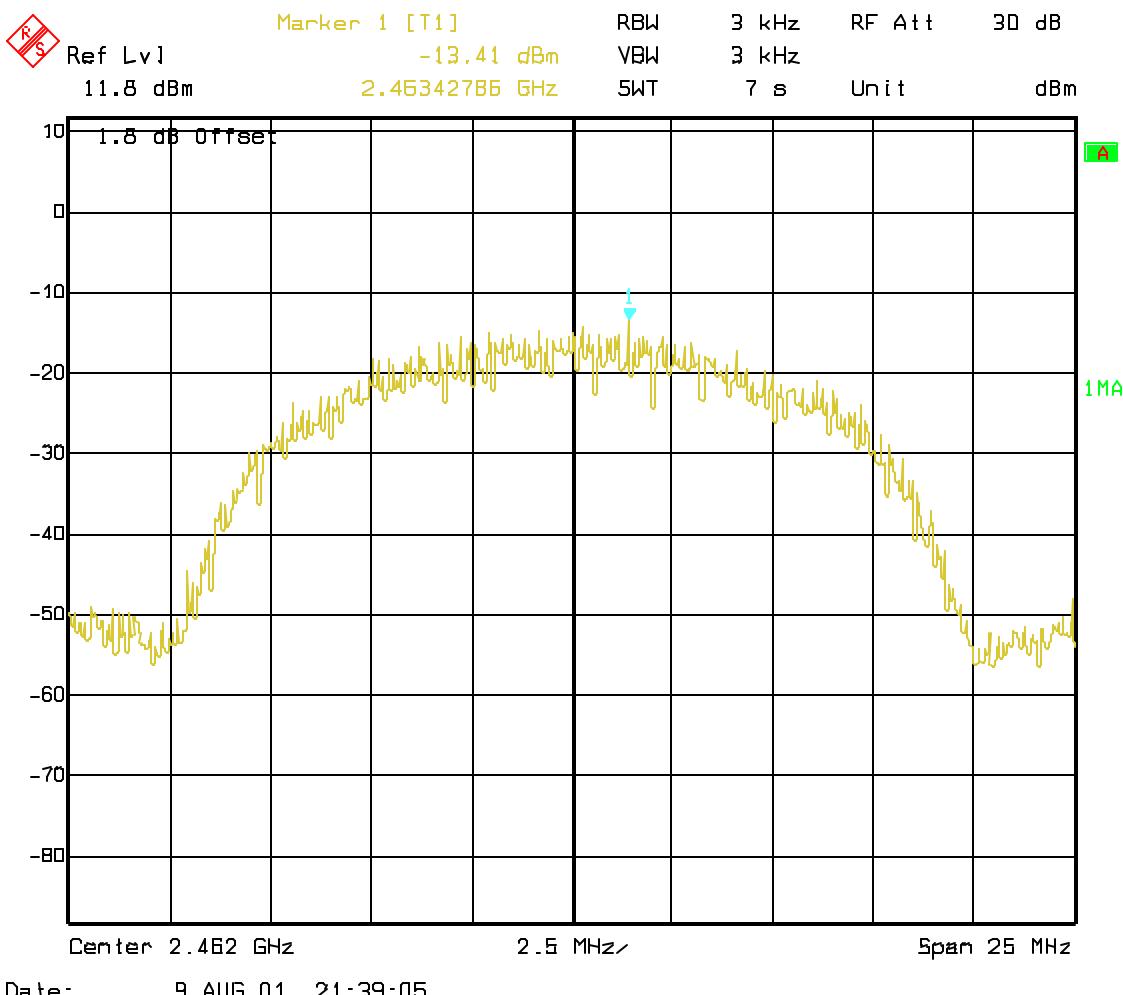
## LIMIT

## SUBCLAUSE §15.247(d)

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

**POWER SPECTRAL DENSITY****SUBCLAUSE § 15.247 (d)****Mid Channel: 2437 MHz****LIMIT****SUBCLAUSE §15.247(d)**

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

**POWER SPECTRAL DENSITY****SUBCLAUSE § 15.247 (d)****Highest Channel: 2462 MHz****LIMIT****SUBCLAUSE §15.247(d)**

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

## PROCESSING GAIN OF DSSS SYSTEMS SUBCLAUSE §15.247 (e)

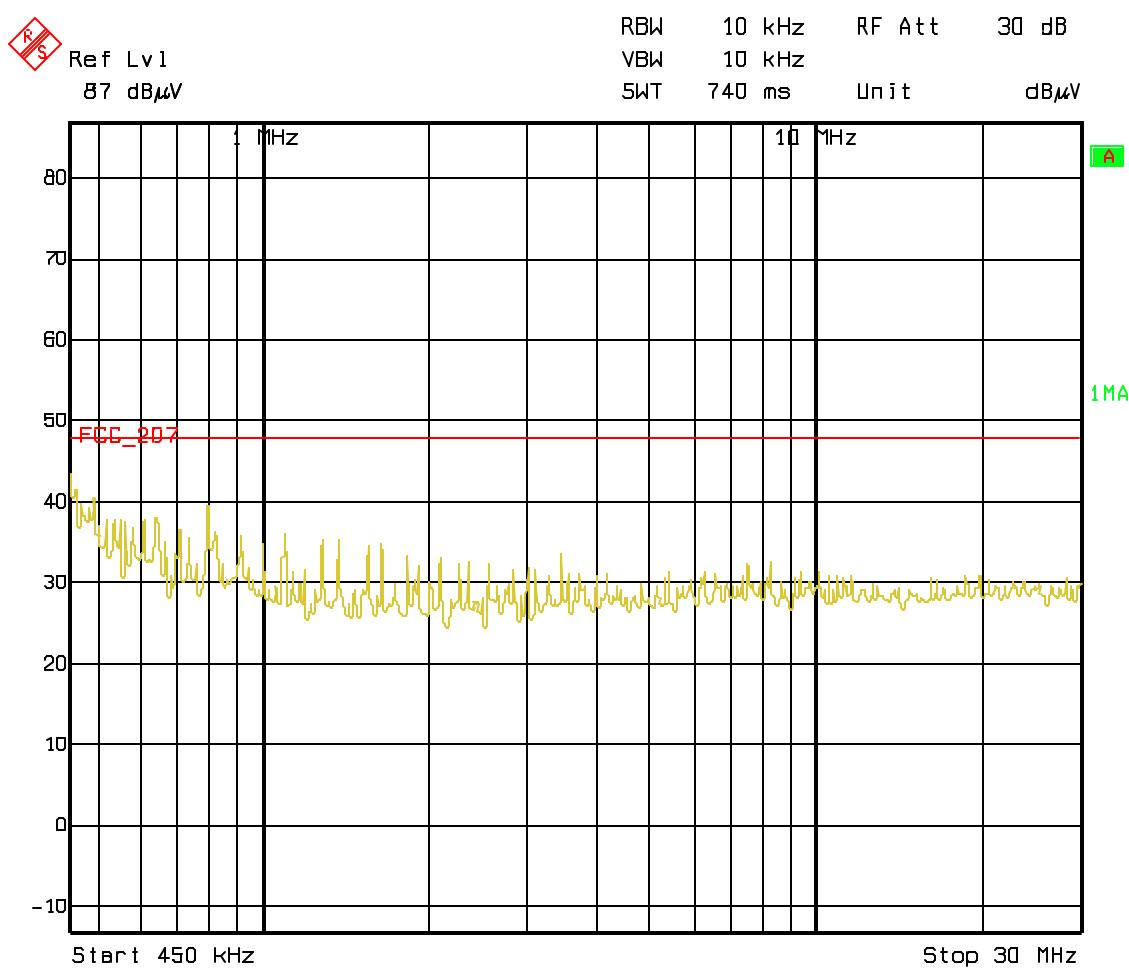
(NOTE: The processing gain data is provided by Chip Set Manufacturer)





**CONDUCTED EMISSIONS****§ 15.107/207**

Measured with AC/DC power adapter plugged in LISN

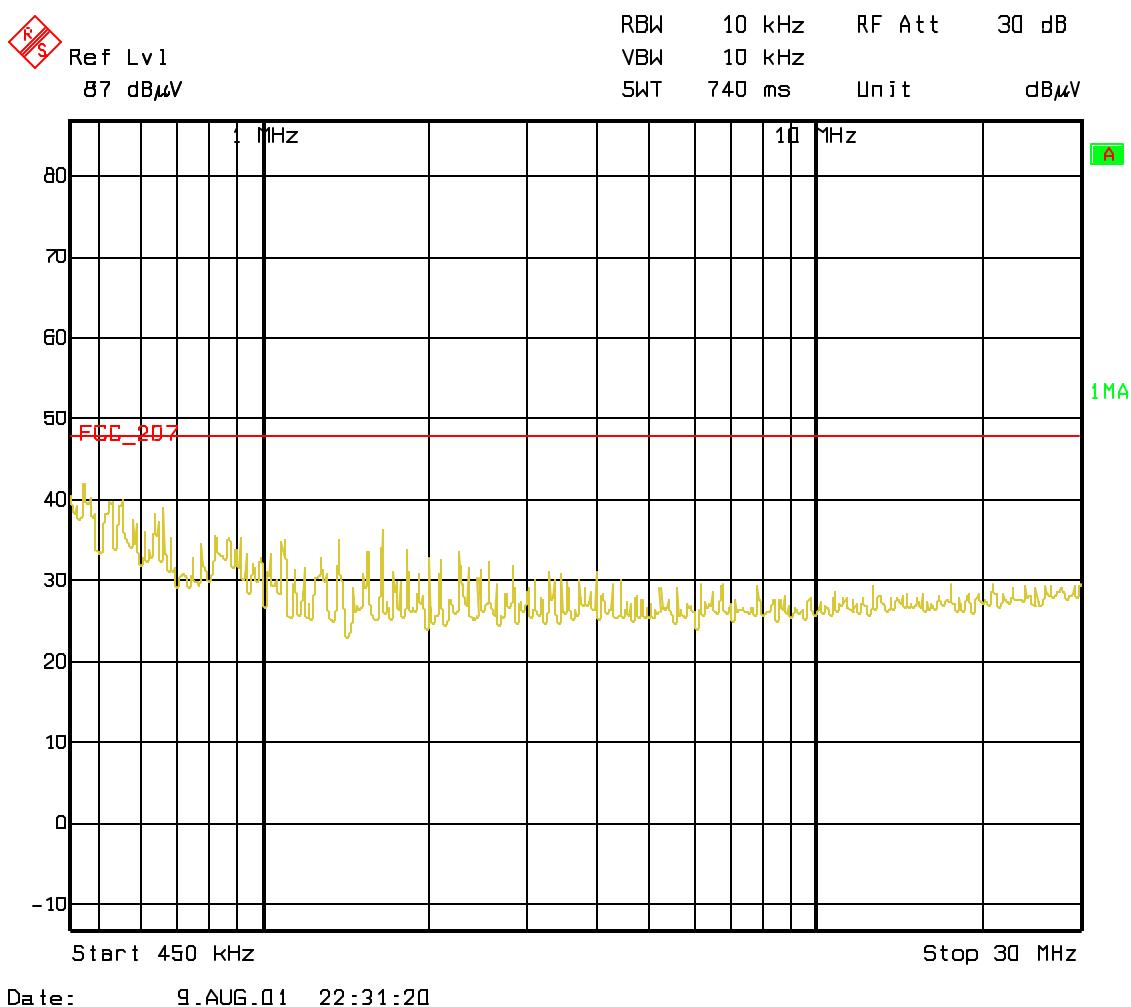
**Phase: Line**

Date: 9.AUG.01 22:32:17

Technical specification : 15.107 / 15.207 (Revised as of October 1, 1991 )

Limit

0.45 to 30 MHz	250 $\mu$ V / 47.96 dB $\mu$ V
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**Phase: Neutral****Technical specification : 15.107 / 15.207 (Revised as of October 1, 1991 )****Limit**

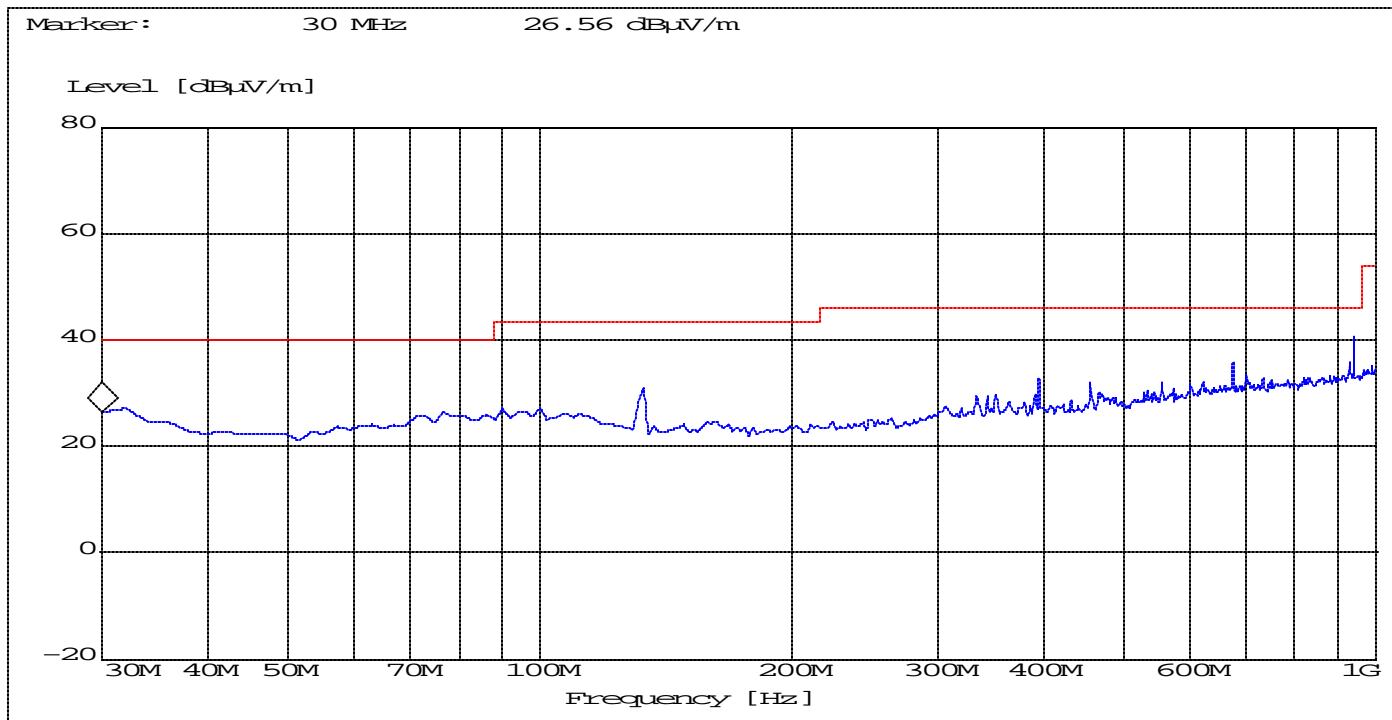
0.45 to 30 MHz	250 $\mu$ V / 47.96 dB $\mu$ V
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## RECEIVER SPURIOUS RADIATION

## § 15.209

Lowest Channel(2412MHz): 30MHz – 1GHz



## Limits

## SUBCLAUSE § 15.209

Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

(NOTE: All measurements were done in peak mode)

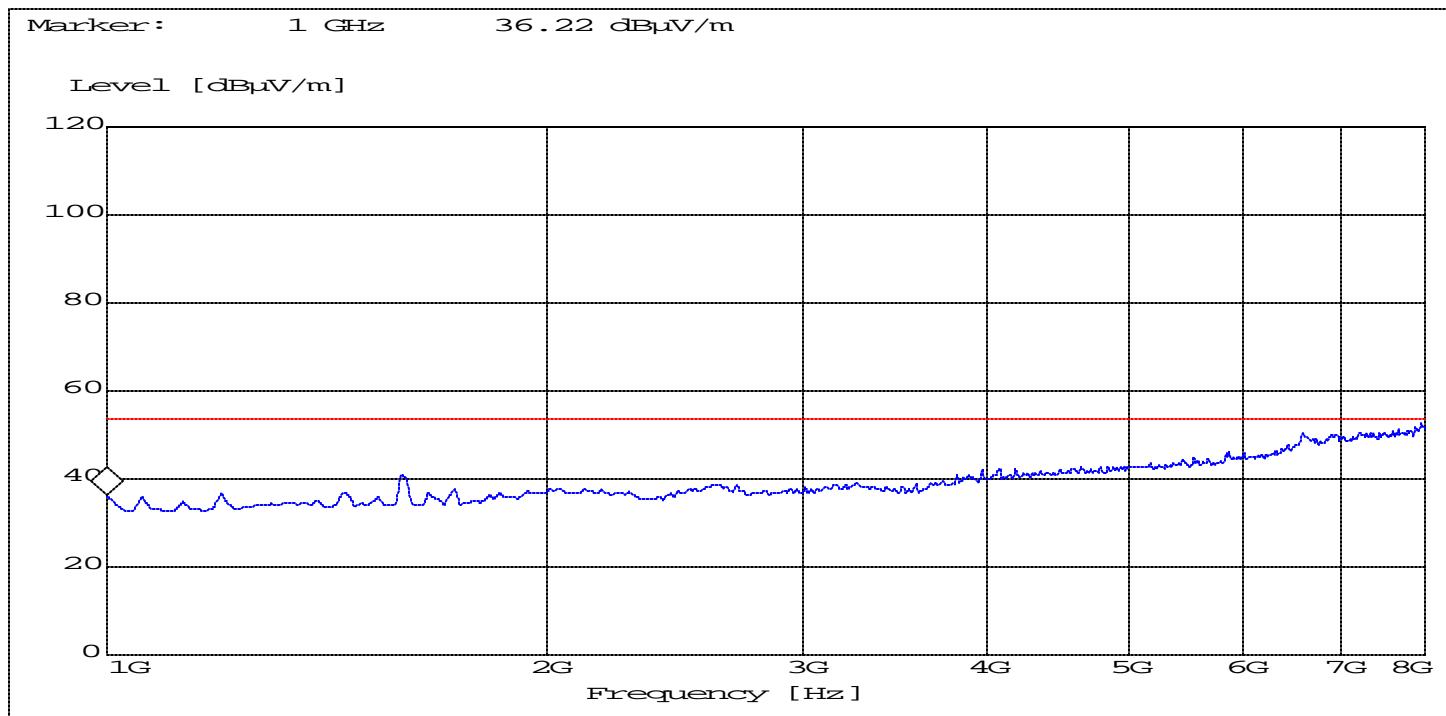
ANALYZER SETTINGS:  $f < 1$  GHz : RBW/VBW: 100 kHz $f \geq 1$  GHz : RBW/VBW: 1 MHz

## RECEIVER SPURIOUS RADIATION

§ 15.209

Lowest Channel(2412MHz): 1GHz – 8GHz

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



## Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

(NOTE: All measurements were done in peak mode)

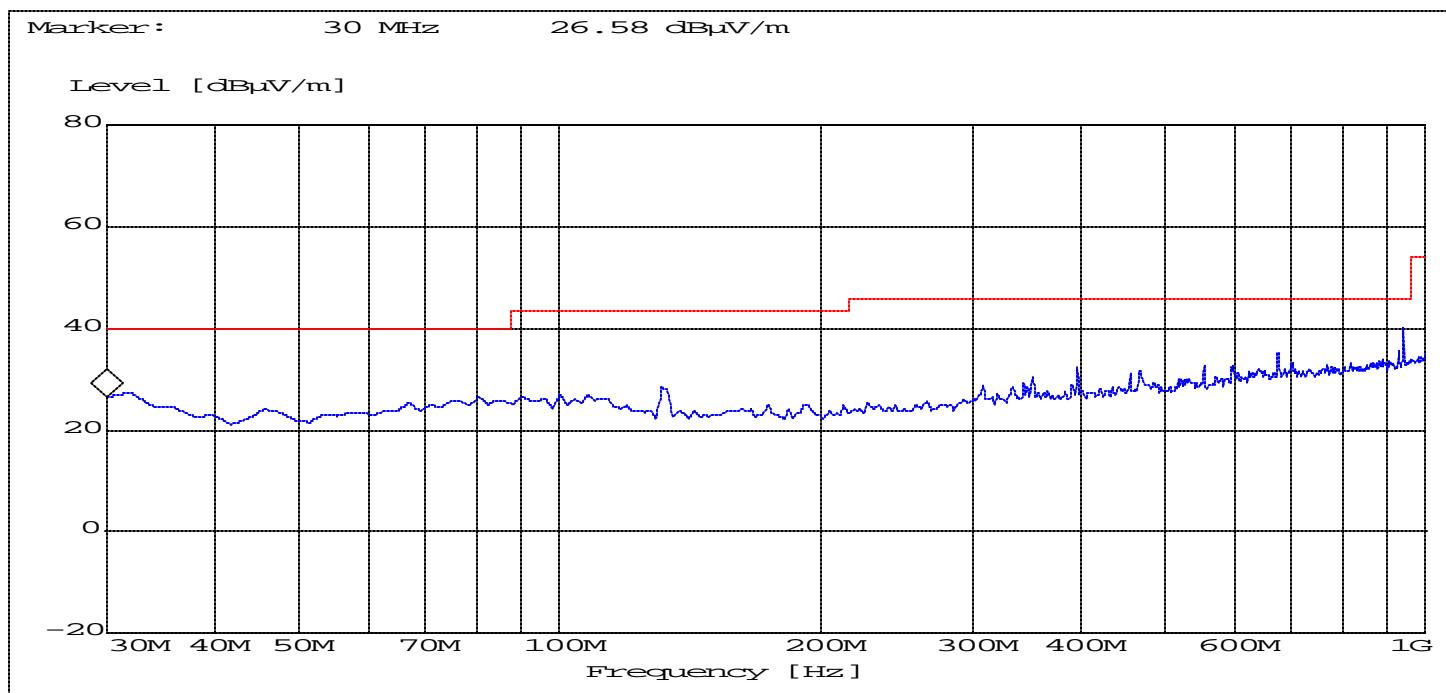
ANALYZER SETTINGS: f &lt; 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

## RECEIVER SPURIOUS RADIATION

§ 15.209

Mid Channel(2437MHz): 30MHz – 1GHz



## Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

(NOTE: All measurements were done in peak mode)

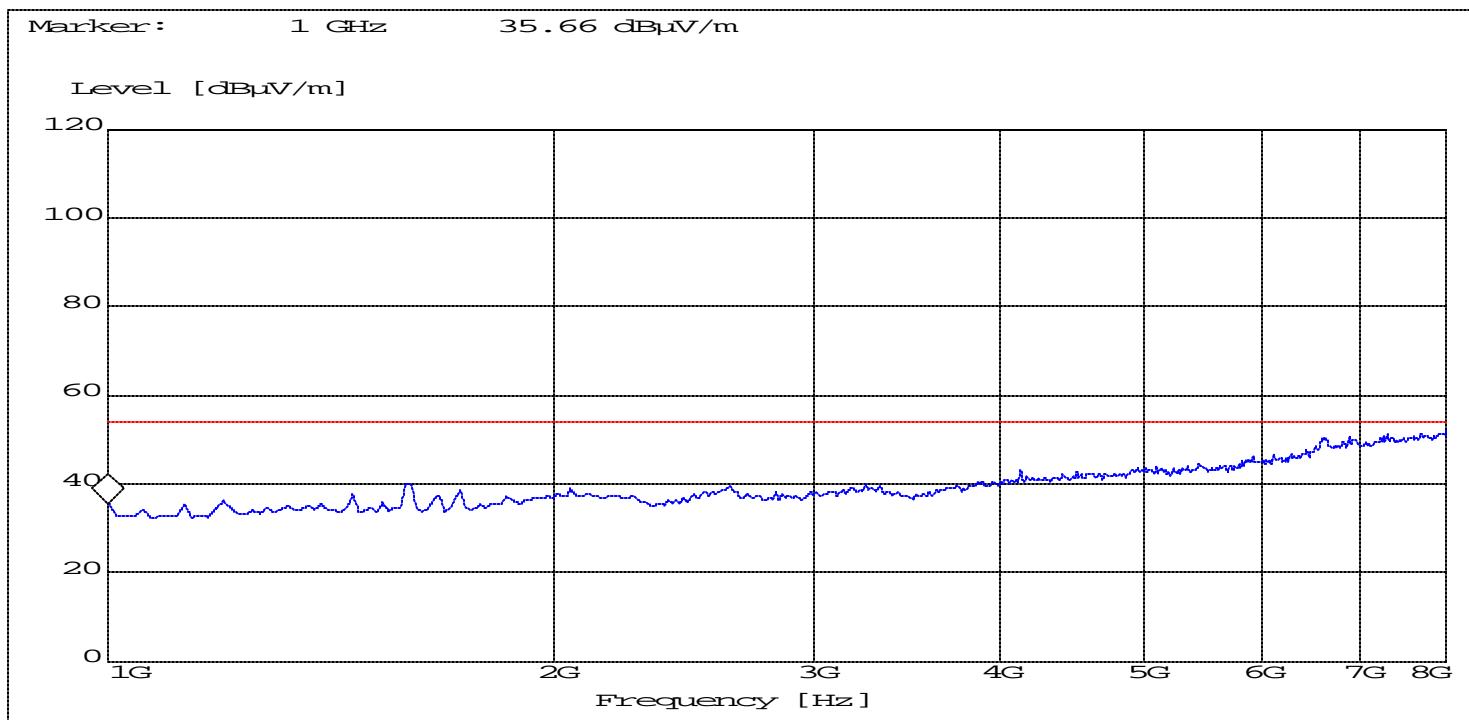
ANALYZER SETTINGS: f &lt; 1 GHz : RBW/VBW: 100 kHz      f ≥ 1GHz : RBW/VBW: 1 MHz

## RECEIVER SPURIOUS RADIATION

§ 15.209

Mid Channel(2437MHz): 1GHz – 8GHz

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



## Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

(NOTE: All measurements were done in peak mode)

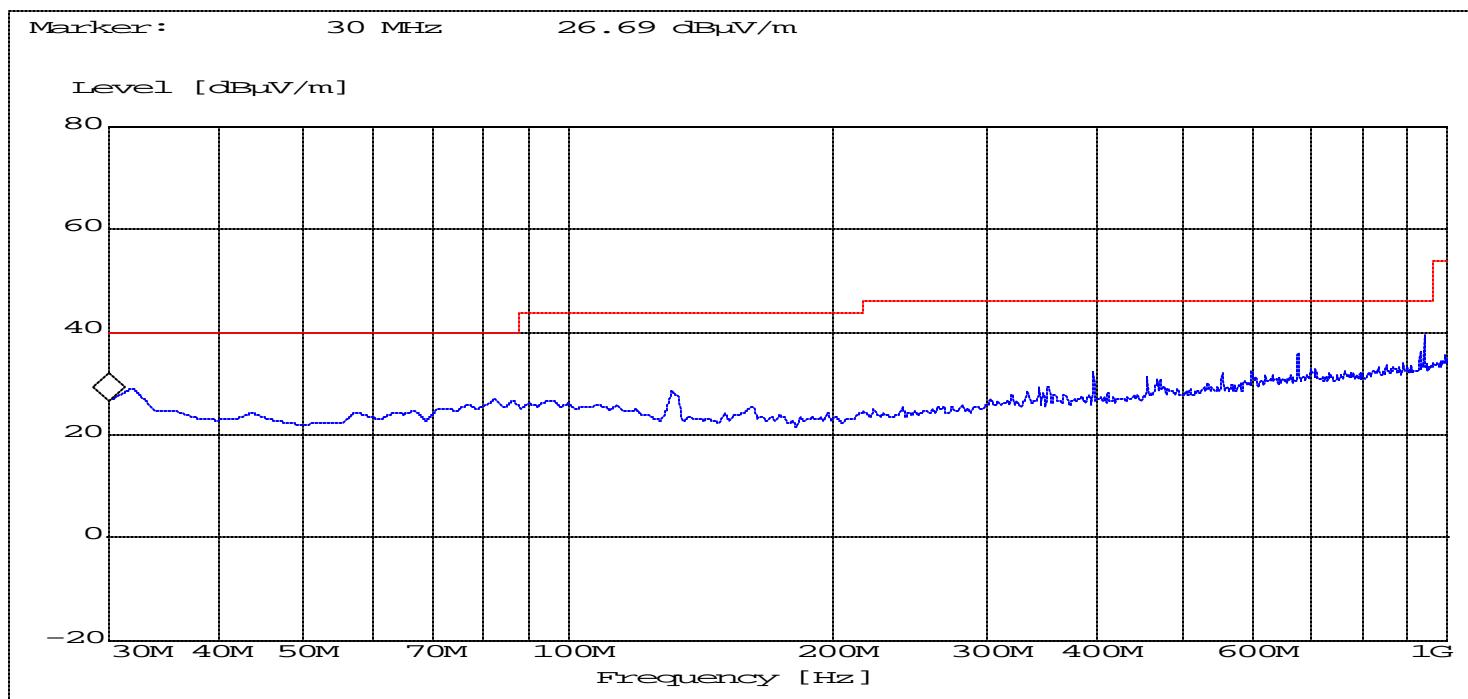
ANALYZER SETTINGS: f &lt; 1 GHz : RBW/VBW: 100 kHz

f  $\geq$  1GHz : RBW/VBW: 1 MHz

## RECEIVER SPURIOUS RADIATION

§ 15.209

Highest Channel(2462MHz): 30MHz – 1GHz



## Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

(NOTE: All measurements were done in peak mode)

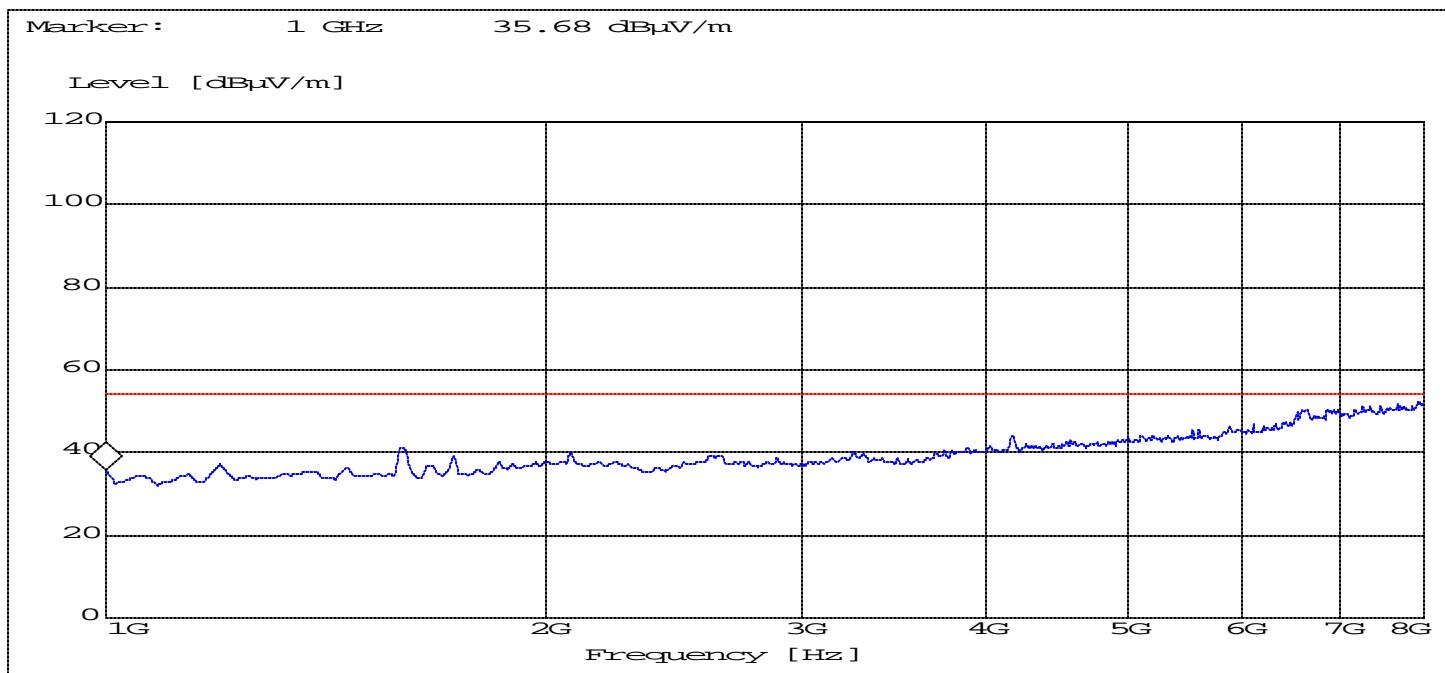
ANALYZER SETTINGS:  $f < 1$  GHz : RBW/VBW: 100 kHz $f \geq 1$  GHz : RBW/VBW: 1 MHz

## RECEIVER SPURIOUS RADIATION

§ 15.209

Highest Channel(2462MHz): 1GHz – 8GHz

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



## Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

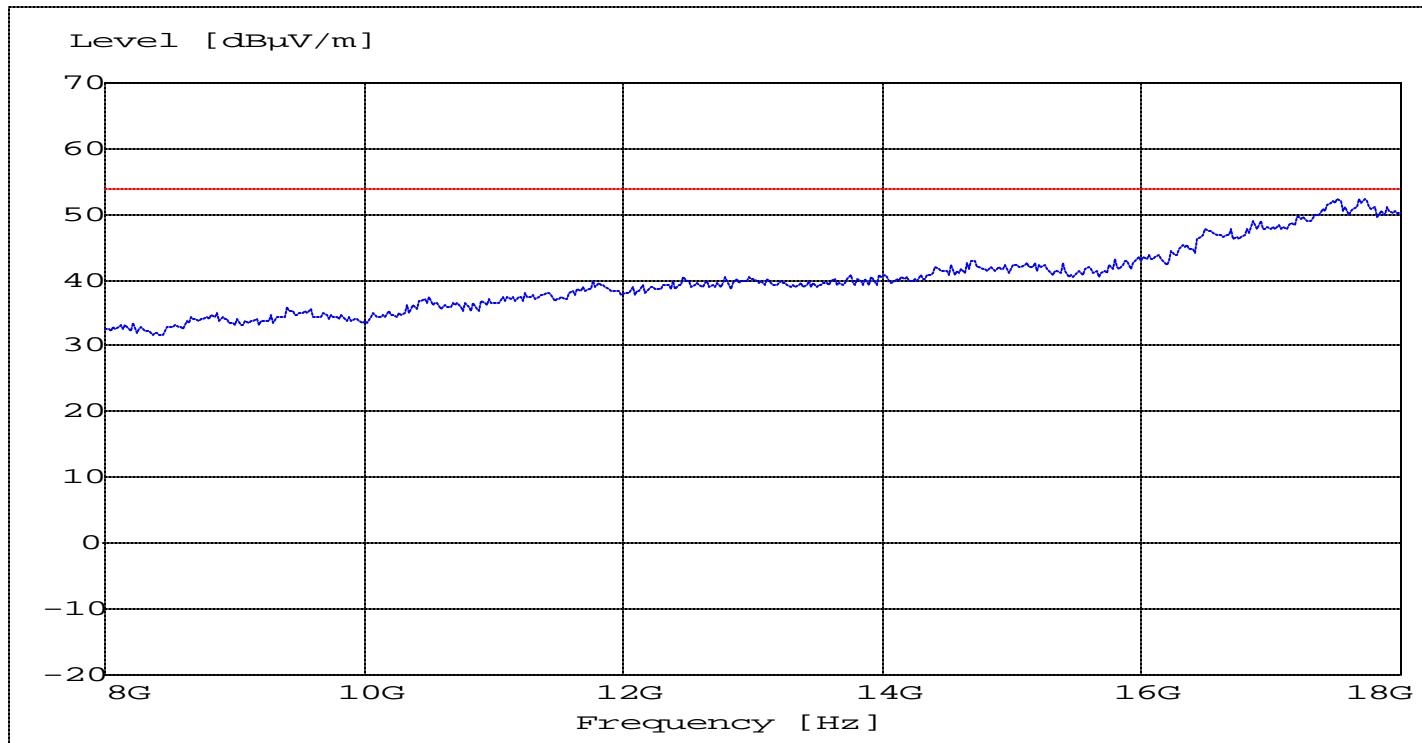
(NOTE: All measurements were done in peak mode)

ANALYZER SETTINGS: f &lt; 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

**RECEIVER SPURIOUS RADIATION****§ 15.209****8GHz – 18GHz**

(NOTE: This plot is applicable for all three channels)

**Limits****SUBCLAUSE § 15.209**

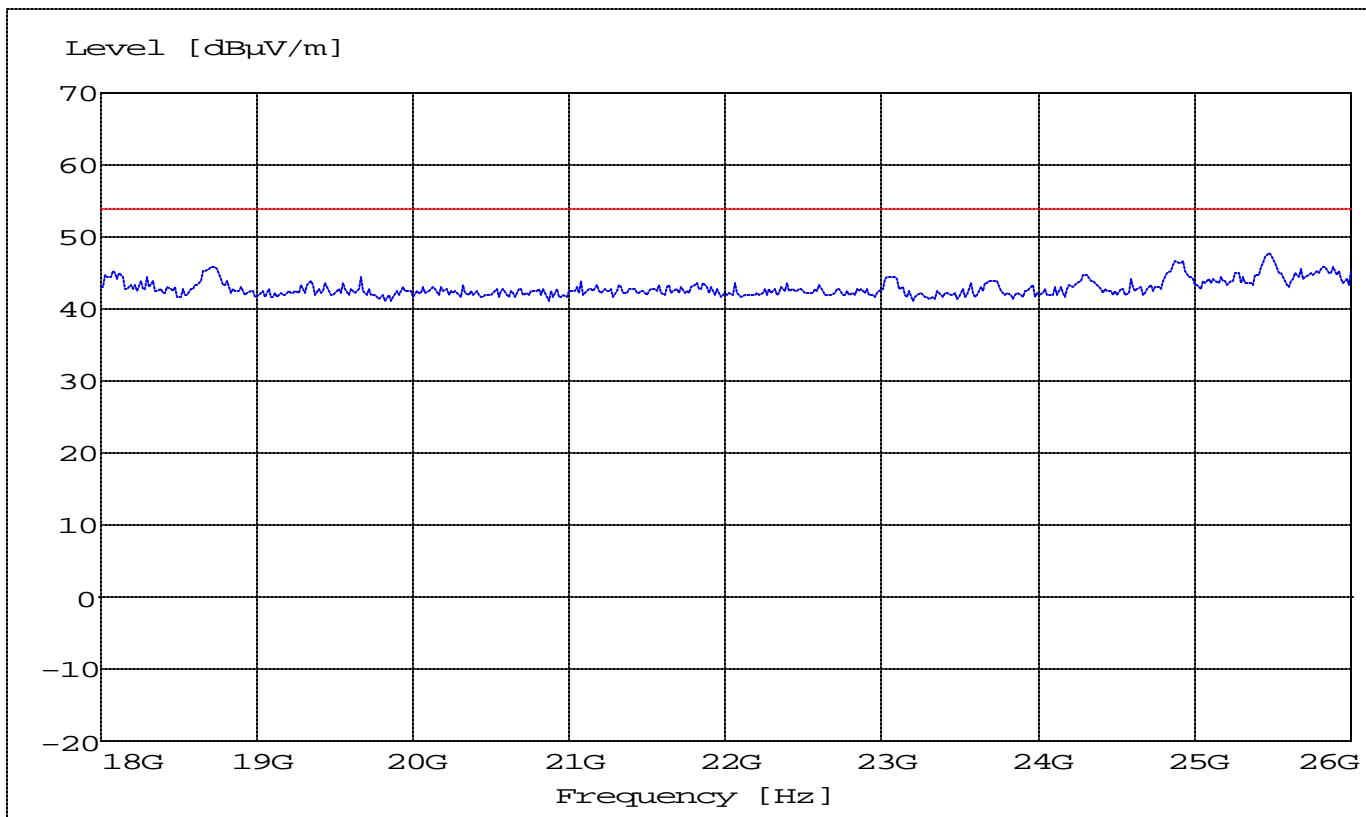
Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

(NOTE: All measurements were done in peak mode)

**ANALYZER SETTINGS: f < 1 GHz : RBW/VBW: 100 kHz                    f ≥ 1GHz : RBW/VBW: 1 MHz**

**RECEIVER SPURIOUS RADIATION****§ 15.209****18GHz – 26GHz**

(NOTE: This plot is applicable for all three channels)

**Limits****SUBCLAUSE § 15.209**

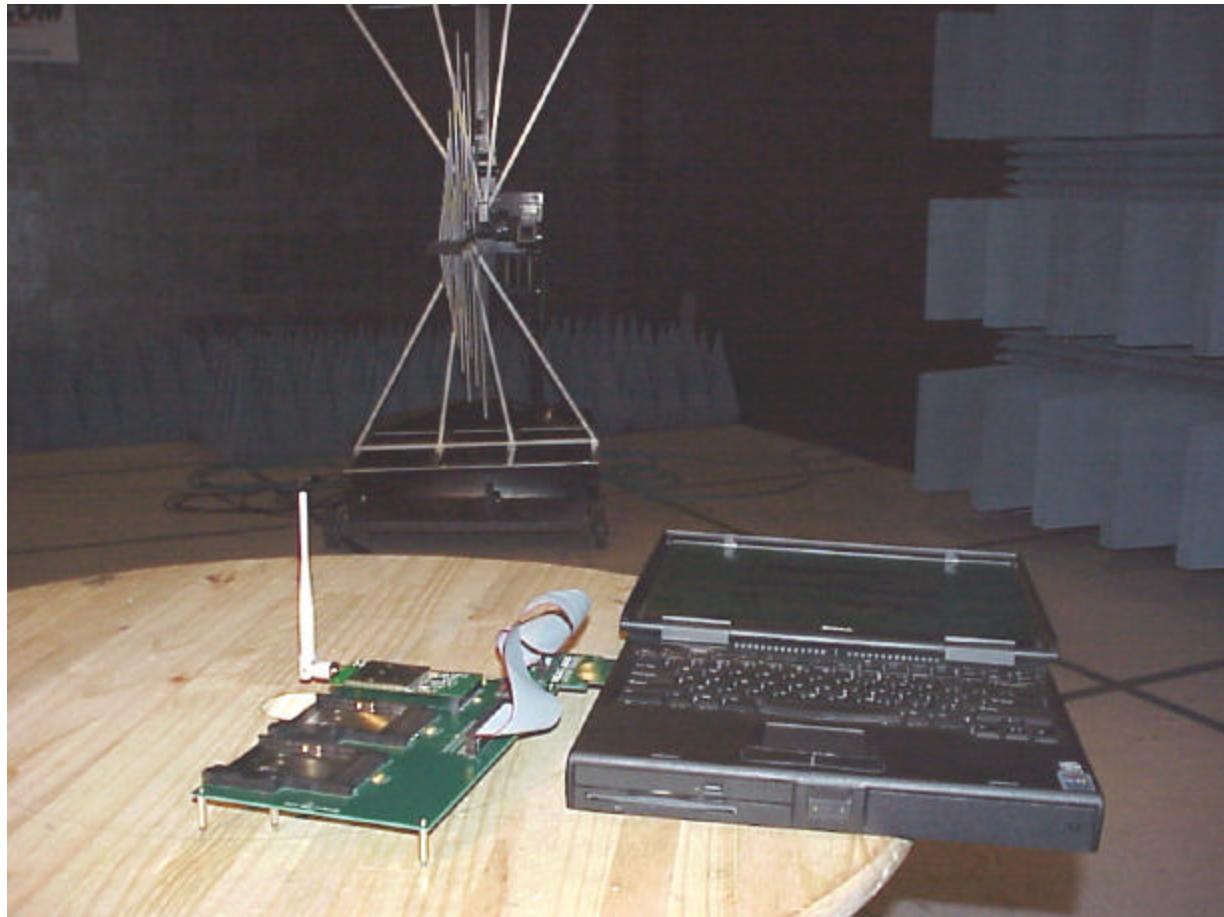
Frequency (MHz)	Field strength ( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

(NOTE: All measurements were done in peak mode)

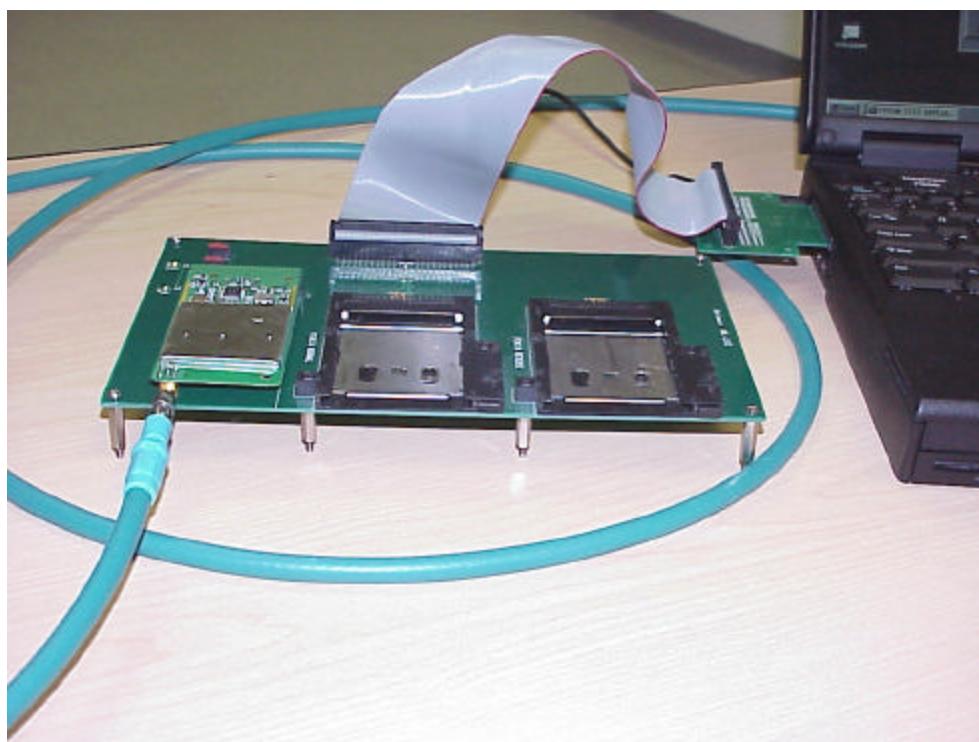
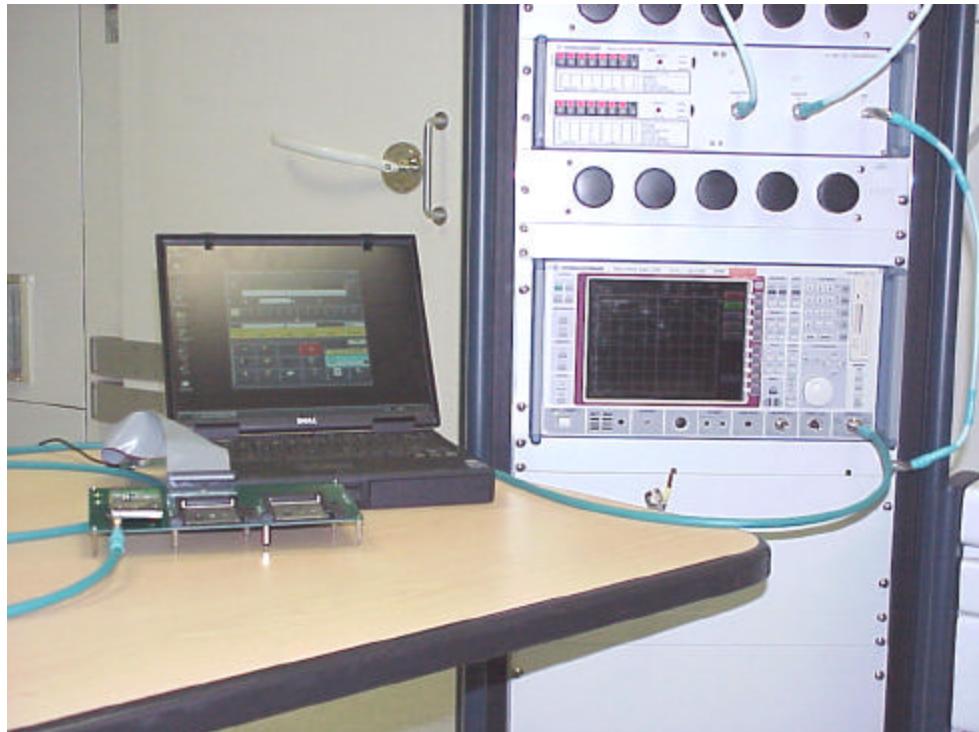
**ANALYZER SETTINGS: f < 1 GHz : RBW/VBW: 100 kHz                    f ≥ 1GHz : RBW/VBW: 1 MHz**

## TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

**TEST SITE**  
**Radiated Emissions**



**Conducted Emissions**

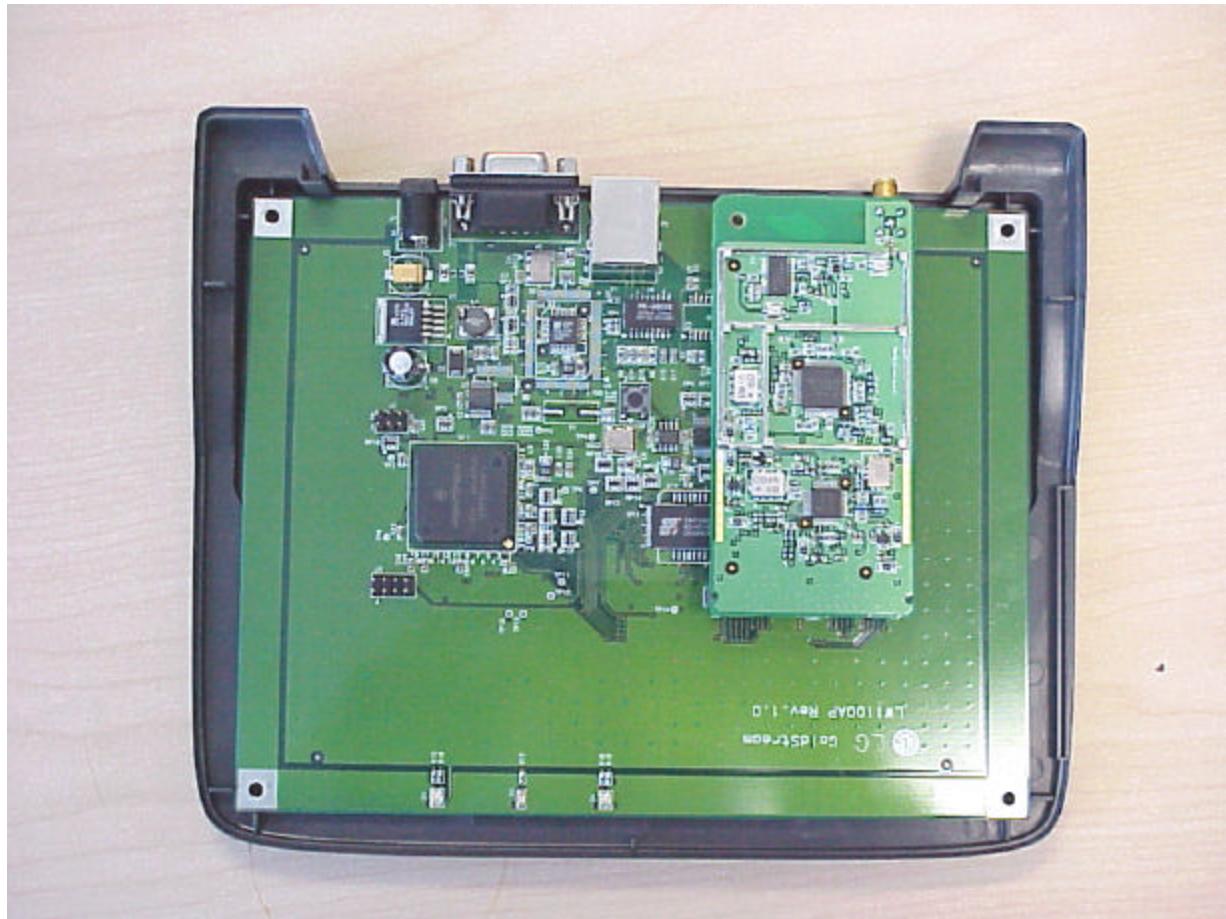


**PHOTOGRAPHS OF THE EQUIPMENT**

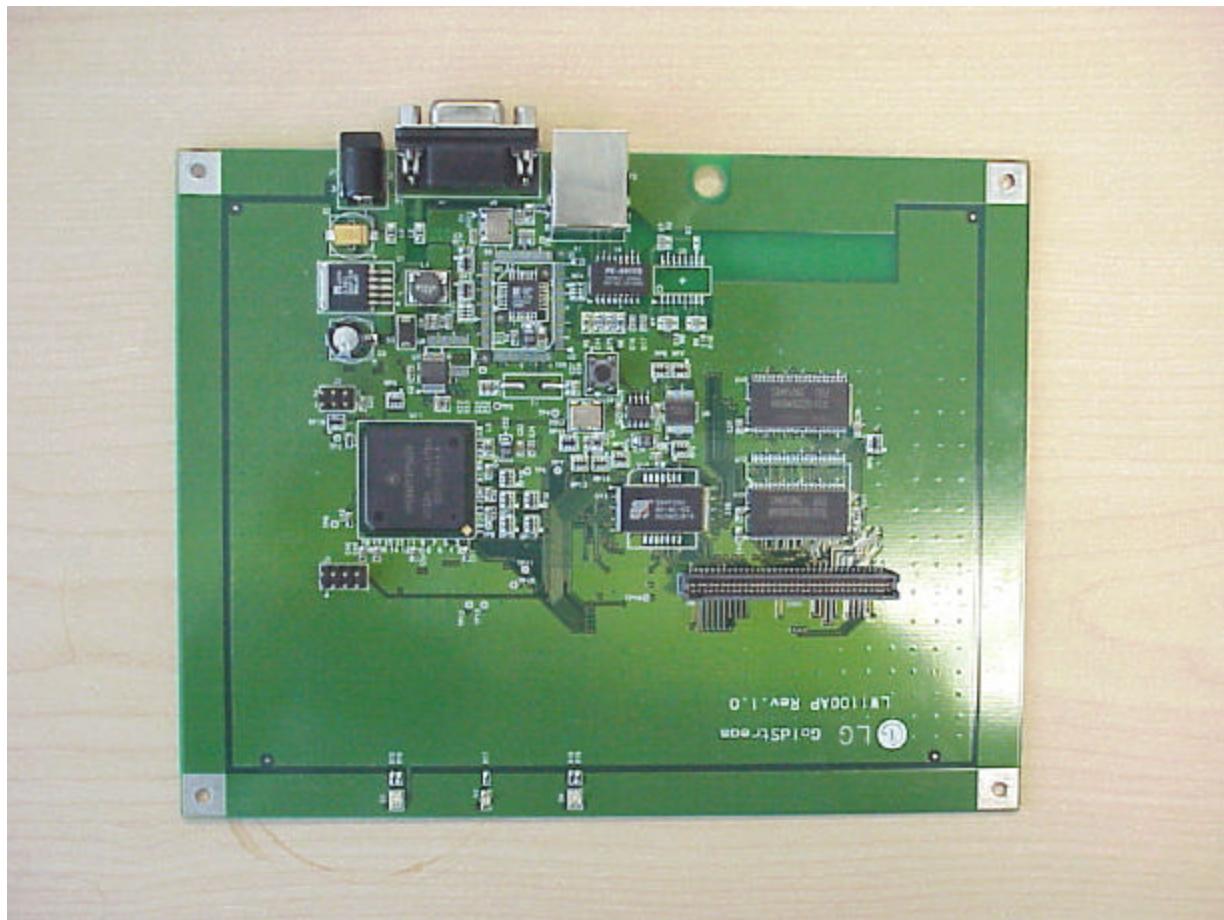
**Photograph No.1: (Top View)**



**Photograph No.2: Top(substance with AP-RF)**



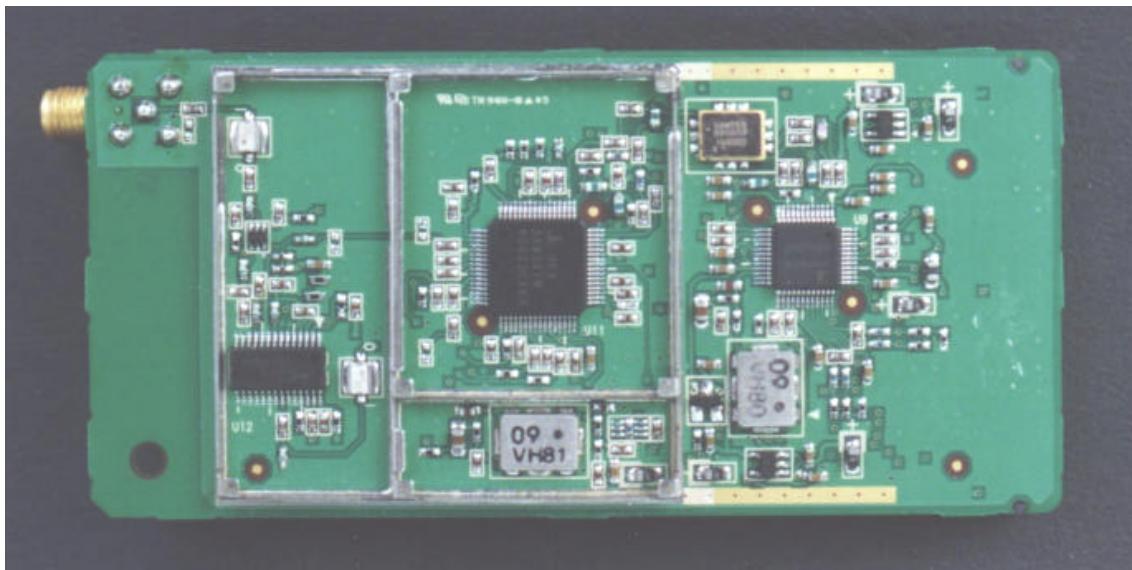
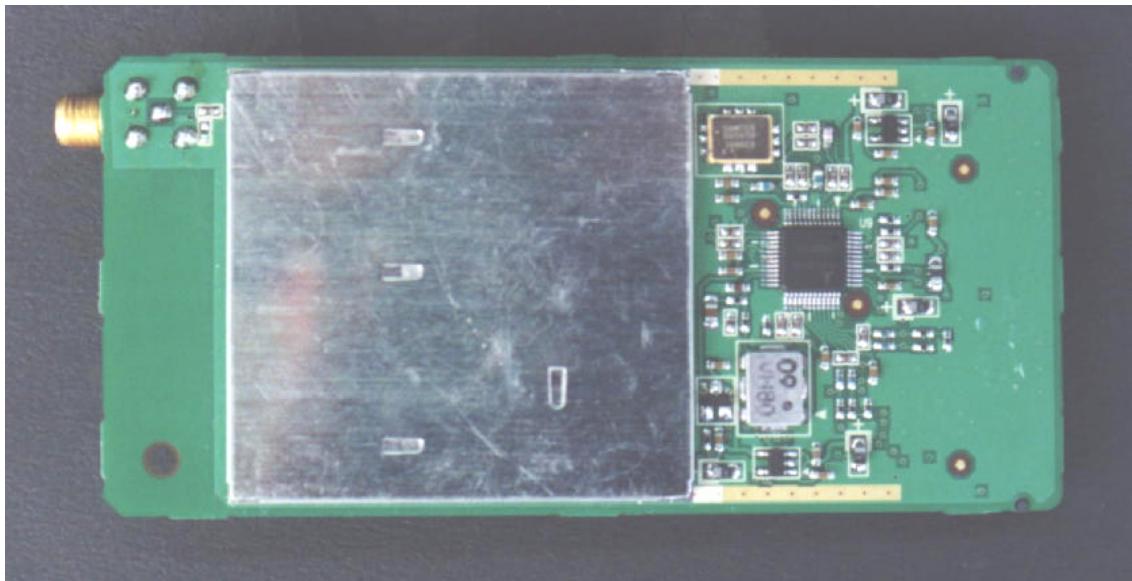
**Photograph No.3: Top(substance without AP-RF)**



**Photograph No.4: (Rear View)**



**Photograph No.5: RF Board Top Side**



**Photograph No.6: RF Board Bottom Side**

