



# FCC Test Report

Test report no.: EMC\_678FCC22-24\_2004\_CDMA\_130

FCC Part 22, 24 / RSS 132,133

EUT Tablet PC            Model: iX104-TM60+2200+AC55x  
With

BT Module                Model: TM60M665

WLAN                      Model: 2200BG

CDMA Module            Model: AC555

FCC ID: Q2GIX104-130

IC: 4596A-iX104WBC



TTI-P-G 081/94-A0

Accredited according to ISO/IEC 17025



Bluetooth Qualification  
Test Facility  
(BQTF)

CTIA Authorized Test Lab

FCC listed # 101450

IC recognized # 3925

## CETECOM Inc.

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<b>1</b>	<b>General information</b>
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The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. 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.

**TEST REPORT PREPARED BY:****EMC Engineer: Harpreet Sidhu****1.2 Testing laboratory**

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### 1.3 Details of applicant

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Contact : Douglas L. Fowler  
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Tele-fax : +1 512 336 7791  
e-mail : [dfowler@xploretech.com](mailto:dfowler@xploretech.com)

### 1.4 Application details

Date of receipt test item : 2004-06-21  
Date of test : 2004-06-21/22/23/29

### 1.5 Test item

Manufacturer : Applicant  
Marketing Name : iX104-TM60+2200+AC55x  
Model No. : iX104-TM60+2200+AC55x  
Description : [Tablet PC with BT, WLAN & CDMA modules](#)  
FCC-ID : Q2GIX104-130  
IC ID : 4596A-iX104WBC

#### Additional information

Frequency : 825.25MHz – 847.75MHz for Cellular 850,  
1851.25MHz – 1908.75MHz for PCS 1900  
Type of modulation : OQPSK  
Number of channels : 833(Cellular)/1199 (PCS)  
Antenna : Embedded  
Power supply : via host Tablet PC  
Output power : 27.07dBm (509.33mW) max. ERP measured in Cellular 850  
26.97dBm (497.73mW) max. EIRP measured in PCS 1900  
Extreme temp. Tolerance : Lower:-30°C Upper: +50°C

### 1.6 Test standards

FCC Part 22,24 / RSS132/133 r1

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

[The Tablet PC \(model# iX104-AC55x\) carries pre-certified CDMA module model# AC555 with FCC ID: N7NACRD555](#)

[This test report only covers full radiated testing as per FCC 22/24 on Tablet PC with CDMA module. All conducted measurements are covered under test report# 2054479](#)

[For WLAN test results refer to test report# \\_678FCC15.247\\_2004\\_WLAN\\_130](#)

[For BT test results refer to test report# \\_678FCC15.247\\_2004\\_BT\\_130](#)

**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	
Final Verdict: (only "passed" if all single measurements are "passed")	<b>Passed</b>

**Technical responsibility for area of testing:**

2004-07-14    EMC & Radio    Lothar Schmidt (Manager)

**Date****Section****Name****Signature****Responsible for test report and project leader:**

2004-07-14    EMC & Radio    Harpreet Sidhu (EMC Engineer)

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

## **2.2 Test report**

**TEST REPORT**

**Test report no.: EMC\_678FCC22-24\_2004\_CDMA\_130**

**TEST REPORT REFERENCE**

<b>PARAMETER TO BE MEASURED</b>	<b>PARAGRAPH</b>	<b>PAGE</b>
<b>POWER OUTPUT</b>	<b>§ 22.913(a) / § 24.232 (b)</b>	<b>7</b>
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**POWER OUTPUT****§ 22.913(a) / § 24.232 (b)****Summary:**

During the process of testing, the EUT was set to transmit on low, mid & high channels.

This paragraph contains average output power, peak output power, EIRP & ERP measurements for the EUT. In all cases, the peak output power is within the specified limits.

**Method of Measurements:**

The EUT was set up for the max. Output power with pseudo random data modulation.

The power was measured with R&S Spectrum Analyzer ESIB 40 (peak)

These measurements were done at 3 frequencies,

825.25 MHz, 836.5 MHz and 847.75 MHz (bottom, middle and top of operational frequency range) for Cellular-850

1851.25 MHz, 1880.0 MHz and 1908.75 MHz (bottom, middle and top of operational frequency range) for PCS-1900

**CONDUCTED OUTPUT POWER**  
**Cellular-850****Limits:**

<b>Conducted peak power</b>
<b>≤33dBm (2W)</b>

Frequency (MHz)	Conducted peak power (dBm)
825.25	26.28
836.5	27.10
847.75	26.03
Measurement uncertainty	±0.5 dB

ANALYZER SETTINGS: RBW = VBW = 3MHz

**PCS-1900****Limits:**

<b>Conducted peak power</b>
<b>≤30dBm (1W)</b>

Frequency (MHz)	Conducted peak power (dBm)
1851.2	25.80
1880	26.59
1908.75	25.17
Measurement uncertainty	±0.5 dB

ANALYZER SETTINGS: RBW = VBW = 3MHz



ERP (Cellular-850)

§22.913(a)

**Limits:**

<b>Burst Peak ERP</b>
<b>≤38.45dBm (7W)</b>

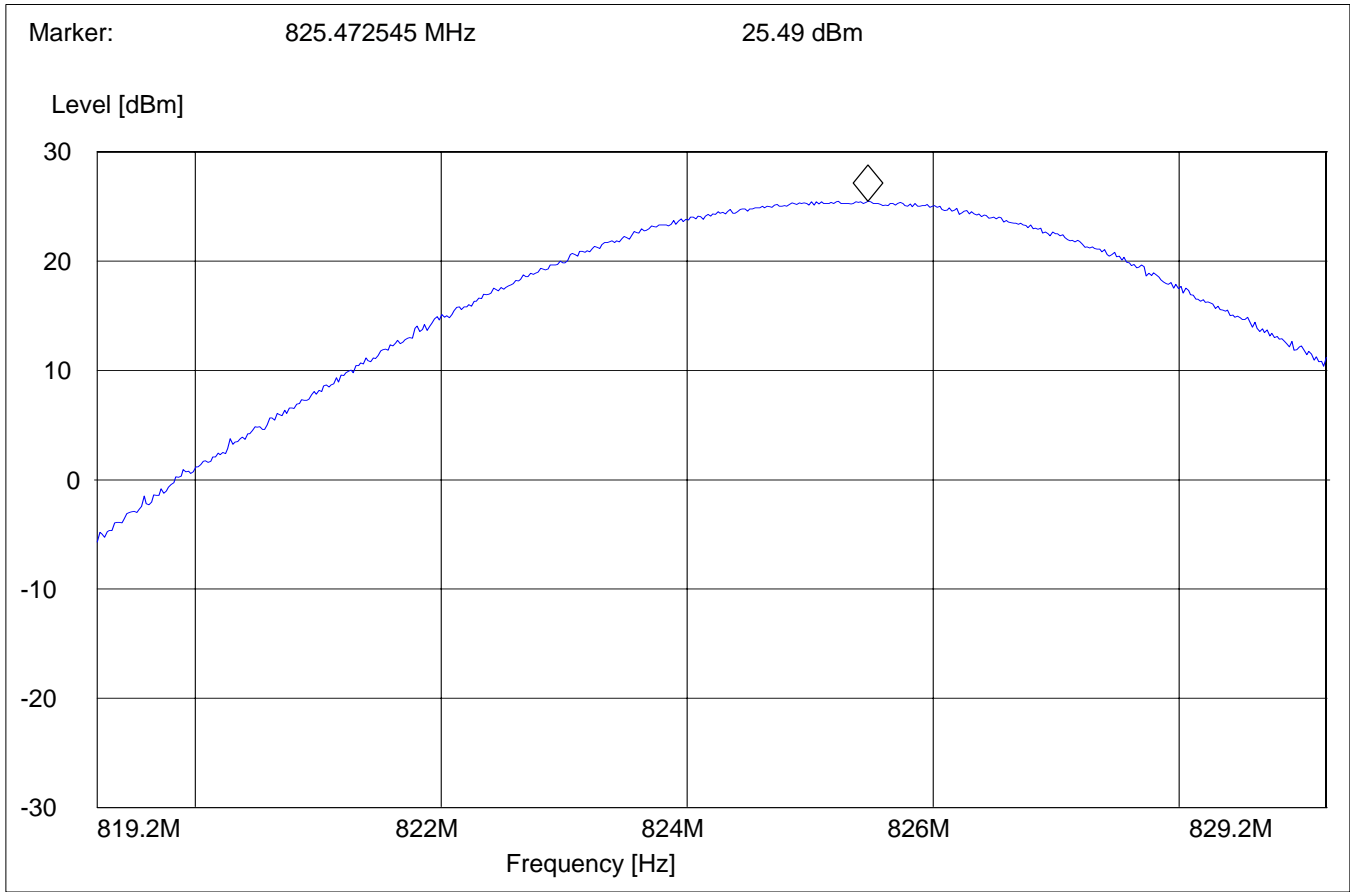
**EIRP**

Frequency (MHz)	Burst Peak (dBm)	
	EIRP	ERP
825.25	25.49	23.39
836.5	26.65	24.55
847.75	29.17	27.07
Measurement uncertainty	±0.5 dB	

ANALYZER SETTINGS: RBW = VBW = 3MHz

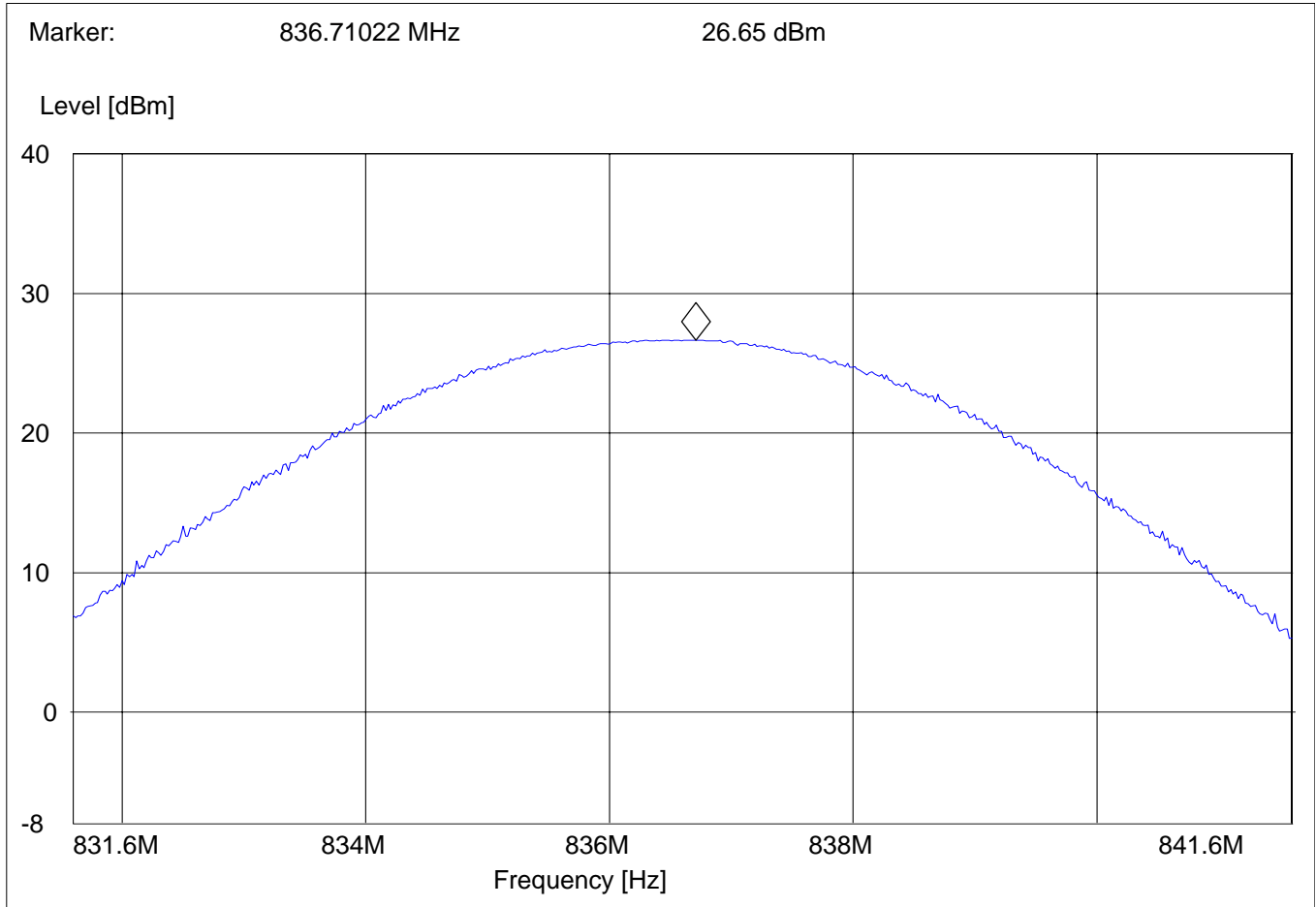
**EIRP (Cellular-850)**  
**CHANNEL: Low**

**§22.913(a)**



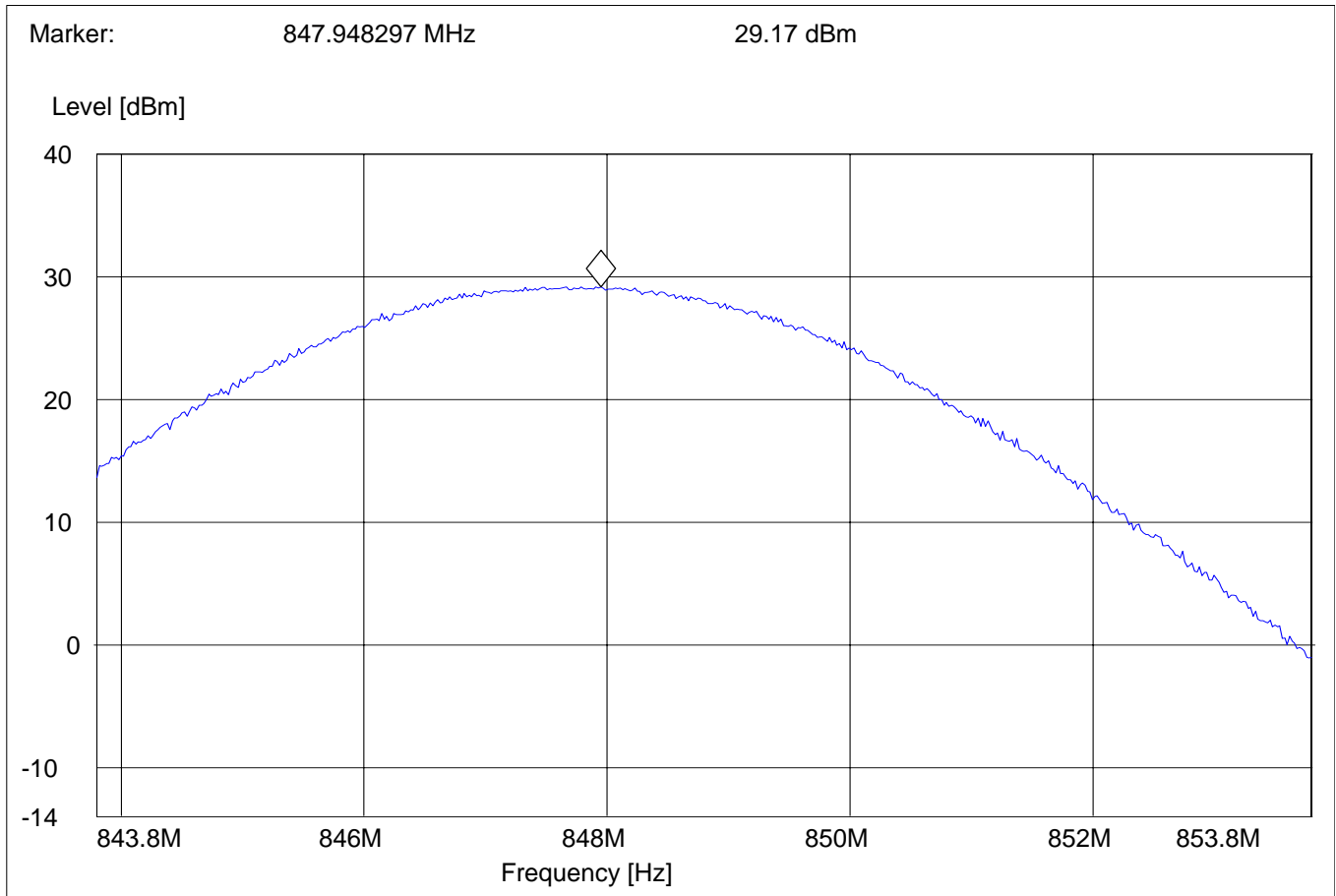
**EIRP (Cellular-850)**  
**CHANNEL: Mid**

**§22.913(a)**



**EIRP (Cellular-850)**  
**CHANNEL: High**

**§22.913(a)**



**EIRP (PCS-1900)****§24.232(b)****Limits:**

<b>Burst Peak EIRP</b>
<b>≤33dBm (1W)</b>

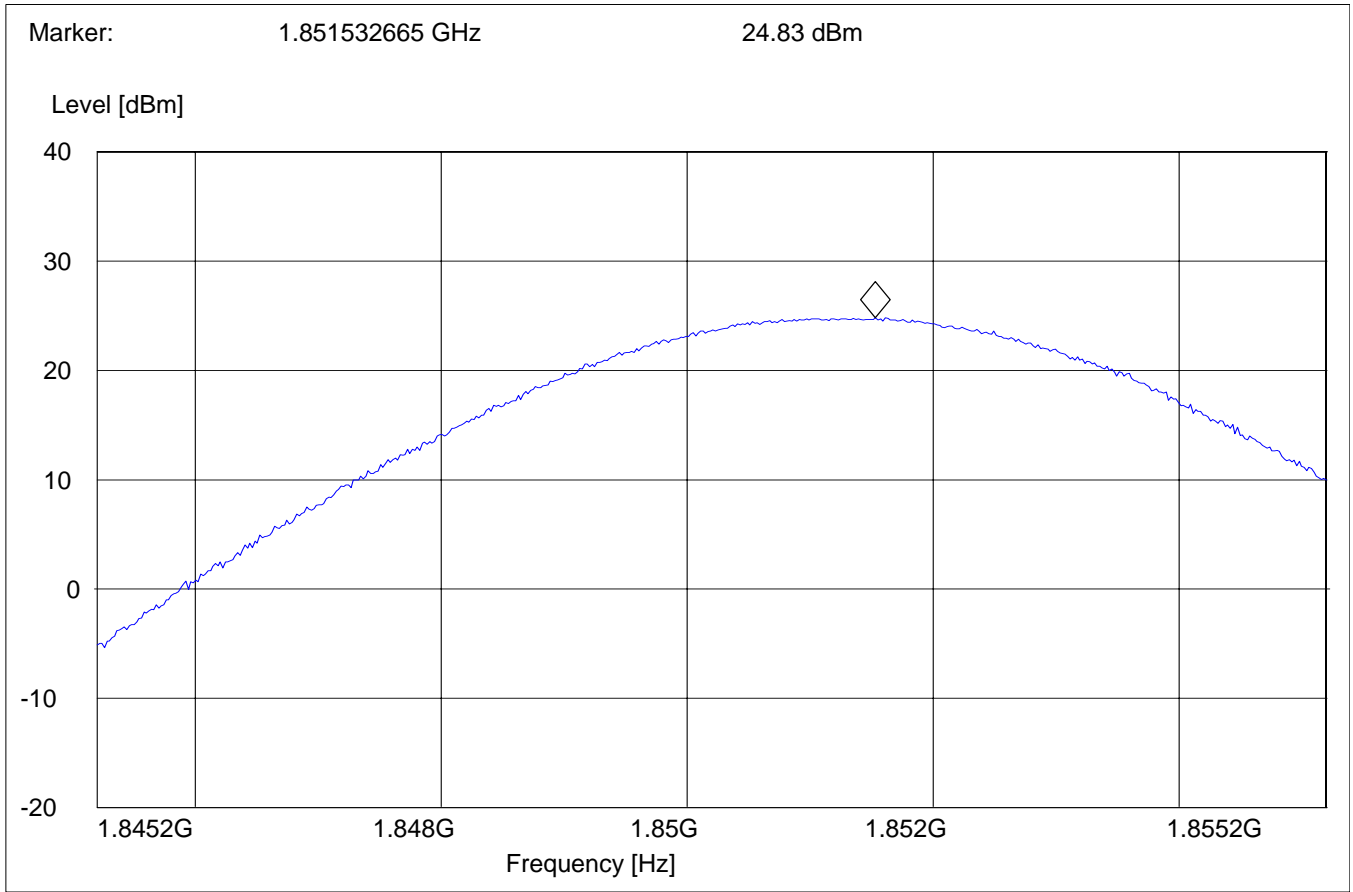
**EIRP**

<b>Frequency (MHz)</b>	<b>Burst Peak (dBm)</b>
	<b>EIRP</b>
<b>1851.25</b>	<b>24.83</b>
<b>1880</b>	<b>26.97</b>
<b>1908.75</b>	<b>26.33</b>
<b>Measurement uncertainty</b>	<b>±0.5 dB</b>

ANALYZER SETTINGS: RBW = VBW = 3MHz

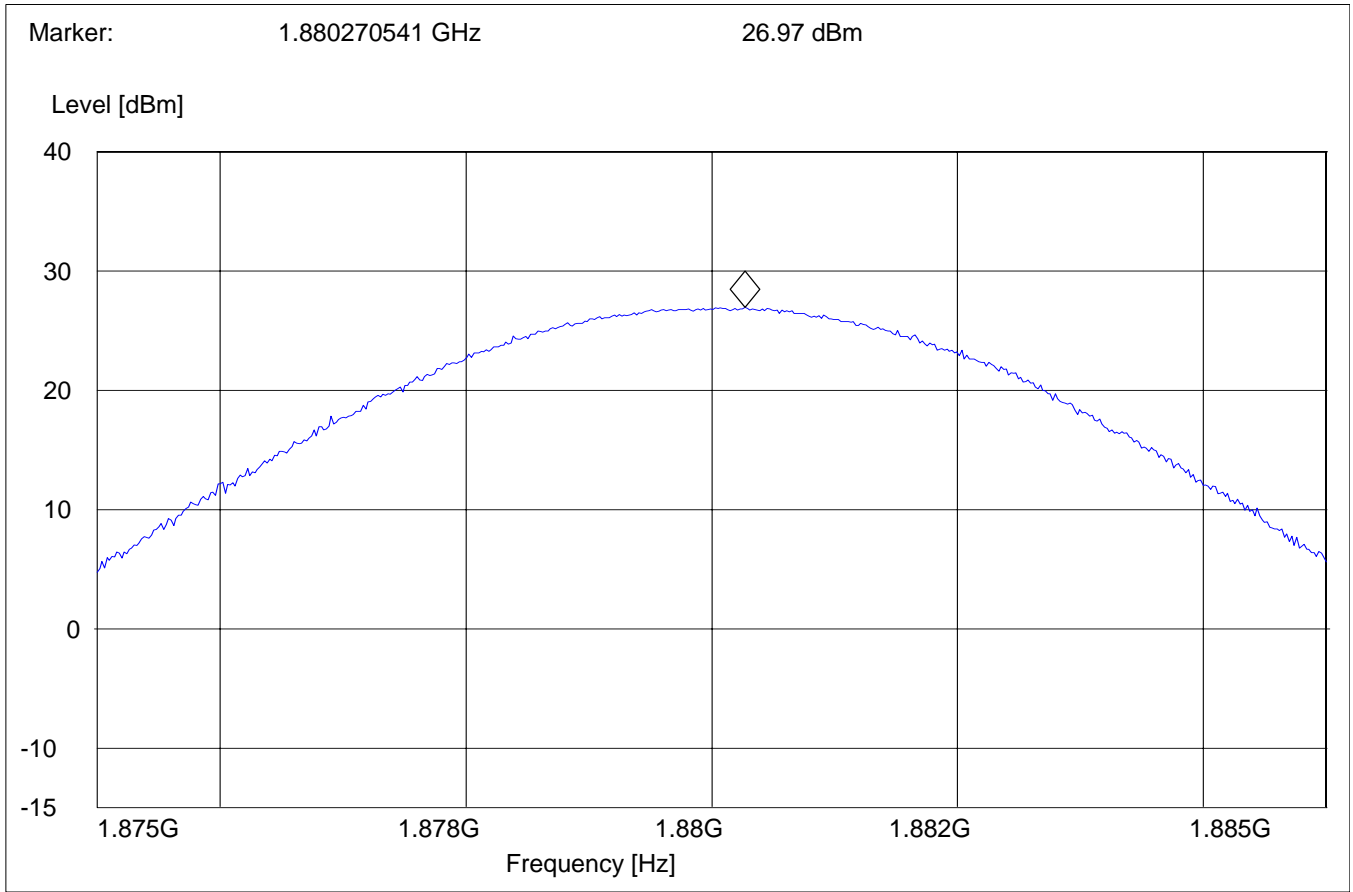
**EIRP (PCS-1900)**  
CHANNEL Low

§24.232(b)



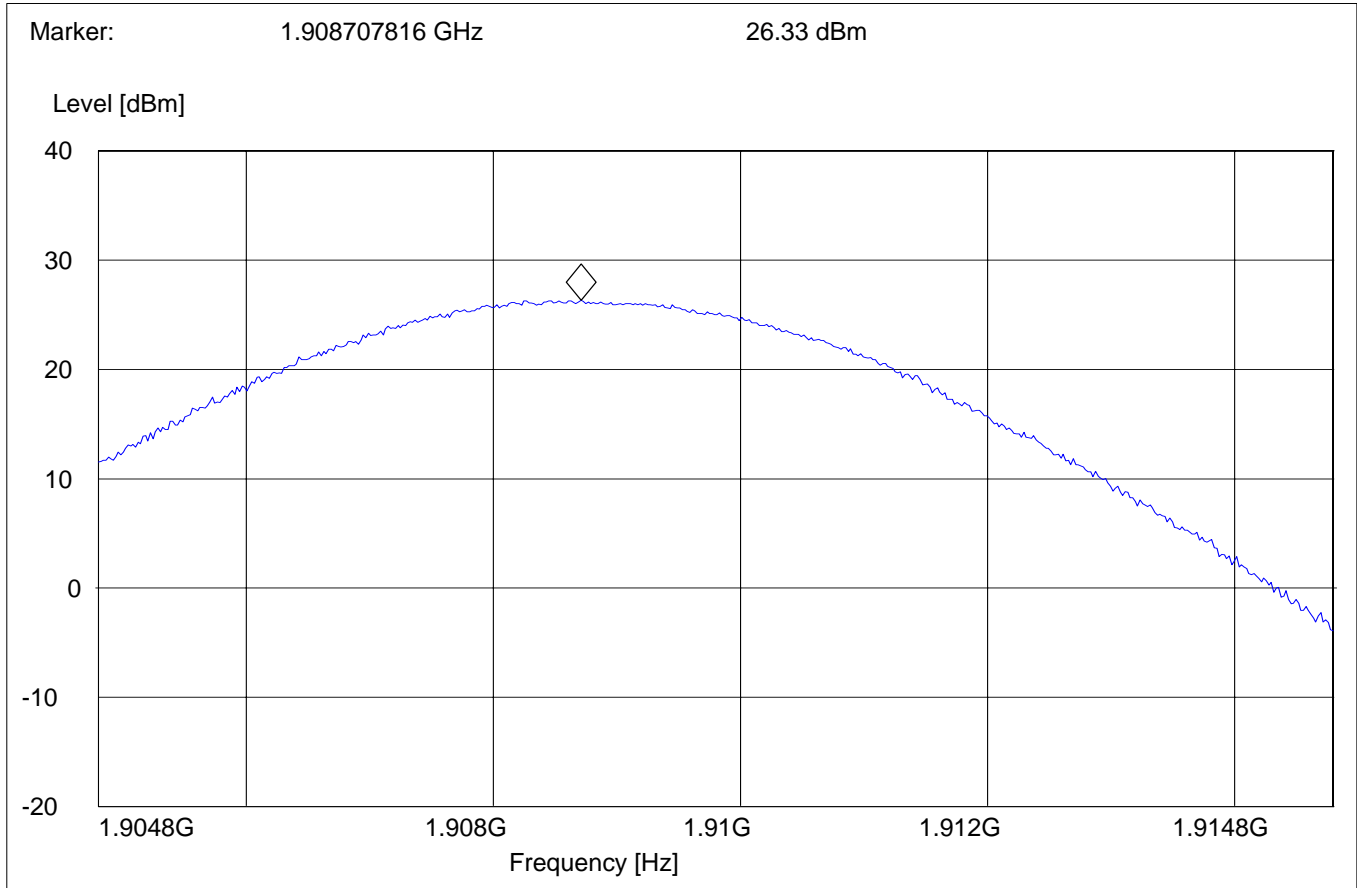
**EIRP (PCS-1900)**  
**CHANNEL Mid**

**§24.232(b)**



**EIRP (PCS-1900)**  
**CHANNEL High**

**§24.232(b)**





**EMISSION LIMITS TRANSMITTER****§2.1051 / §24.238****Measurement Procedure:**

The following steps outline the procedure used to measure the radiated emissions from the EUT. The site is constructed in accordance with ANSI C63.4 – 1992 requirements and is recognised by the FCC. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 847.75MHz for Cellular-850 & 1908.75 MHz for PCS-1900. The resolution bandwidth is set as outlined in Part 24.238. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the Cellular-850 & PCS-1900 bands.

**The final Radiated emission test procedure is as follows:**

- a) The test item was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna.
- b) The antenna output was terminated in a 50-ohm load.
- c) A double-ridged wave guide antenna was placed on an adjustable height antenna mast 3 meters from the test item for emission measurements.
- d) Detected emissions were maximized at each frequency by rotating the test item and adjusting the receive antenna height and polarization. The maximum meter reading was recorded. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth. If the harmonic could not be detected above the noise floor, the ambient level was recorded. The equivalent power into a dipole antenna was determined by the substitution method described for ERP measurements.

**Measurement Limit:**

Sec. 24.238 Emission Limits.

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least  $43 + 10 \log(P)$  dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

**Measurement Results:**

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the Cellular-850 & PCS-1900 bands. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the Cellular-850 & PCS-1900 band into any of the other blocks respectively. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

**RADIATED SPURIOUS EMISSIONS (Cellular-850)**

**Tx @ 825.25MHz: 30MHz - 1GHz**

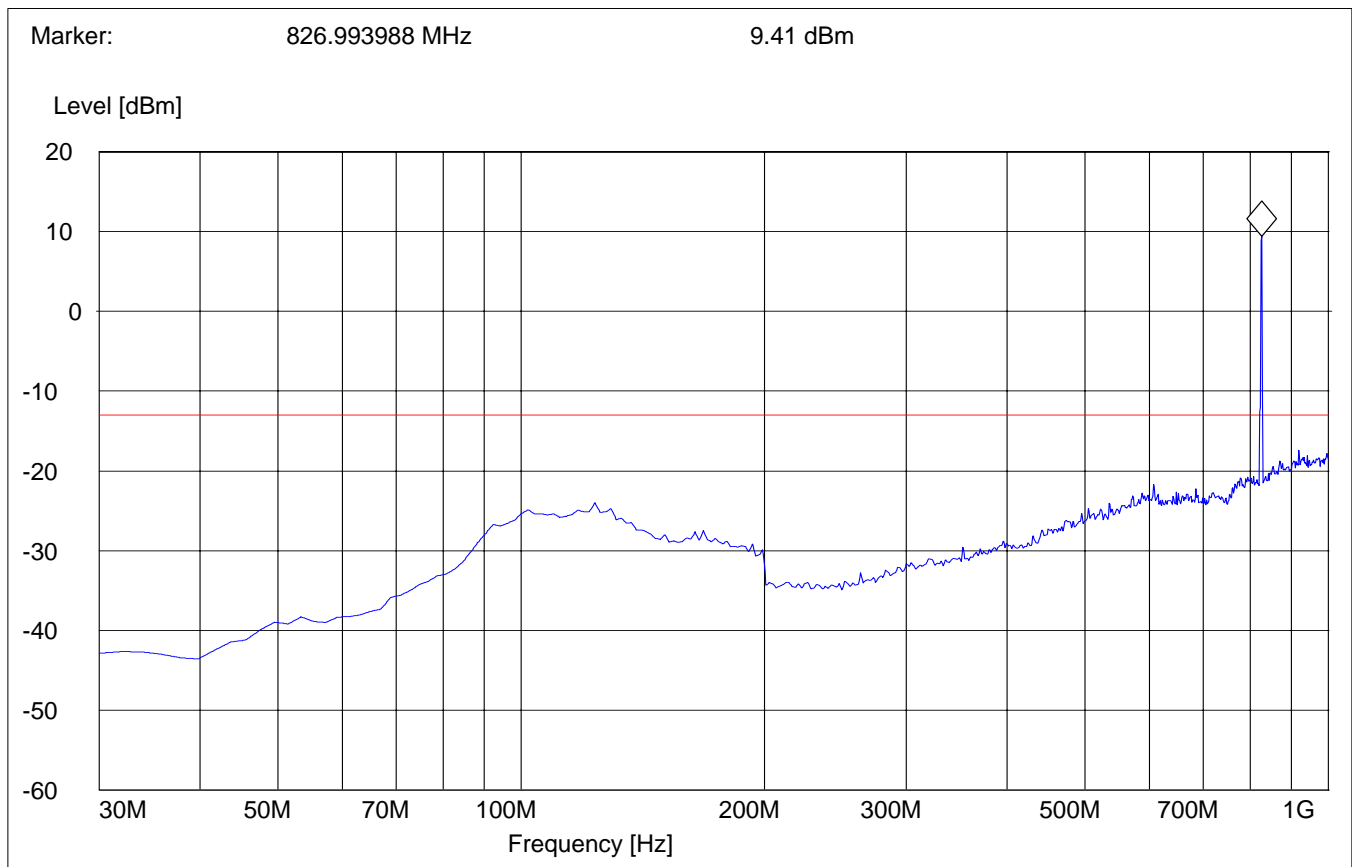
Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 30M-1G"**

Start	Stop	Detector	Meas. Time	RBW/VBW
30MHz	1GHz	Max Peak	Coupled	1 MHz

**Note:**

- 1.The peak above the limit line is the carrier freq.**
- 2.This plot is valid for low, mid & high channels (worst-case plot)**

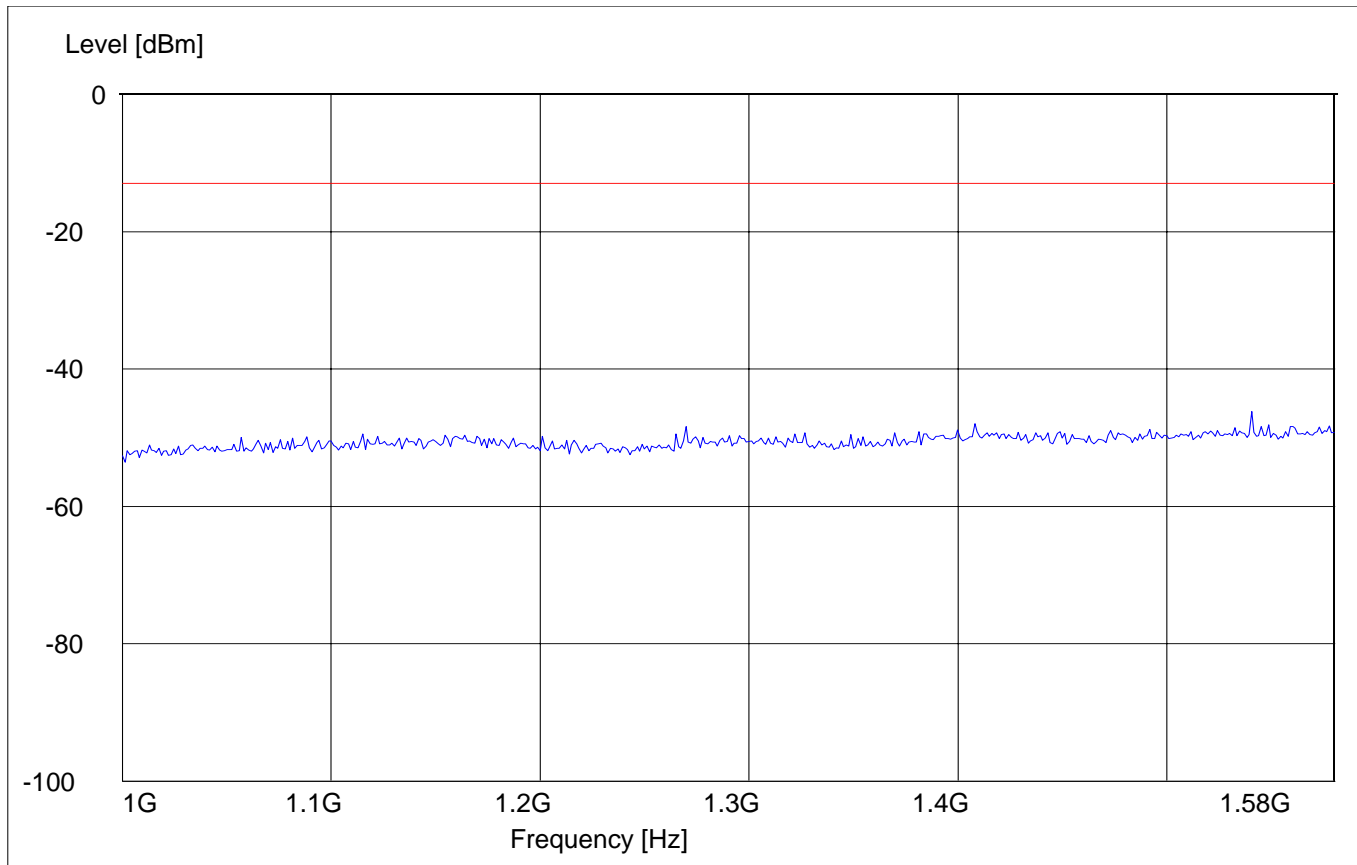


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 825.25MHz: 1GHz – 1.58GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 1-1.58G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
1GHz	1.58GHz	Max Peak	Coupled	1 MHz

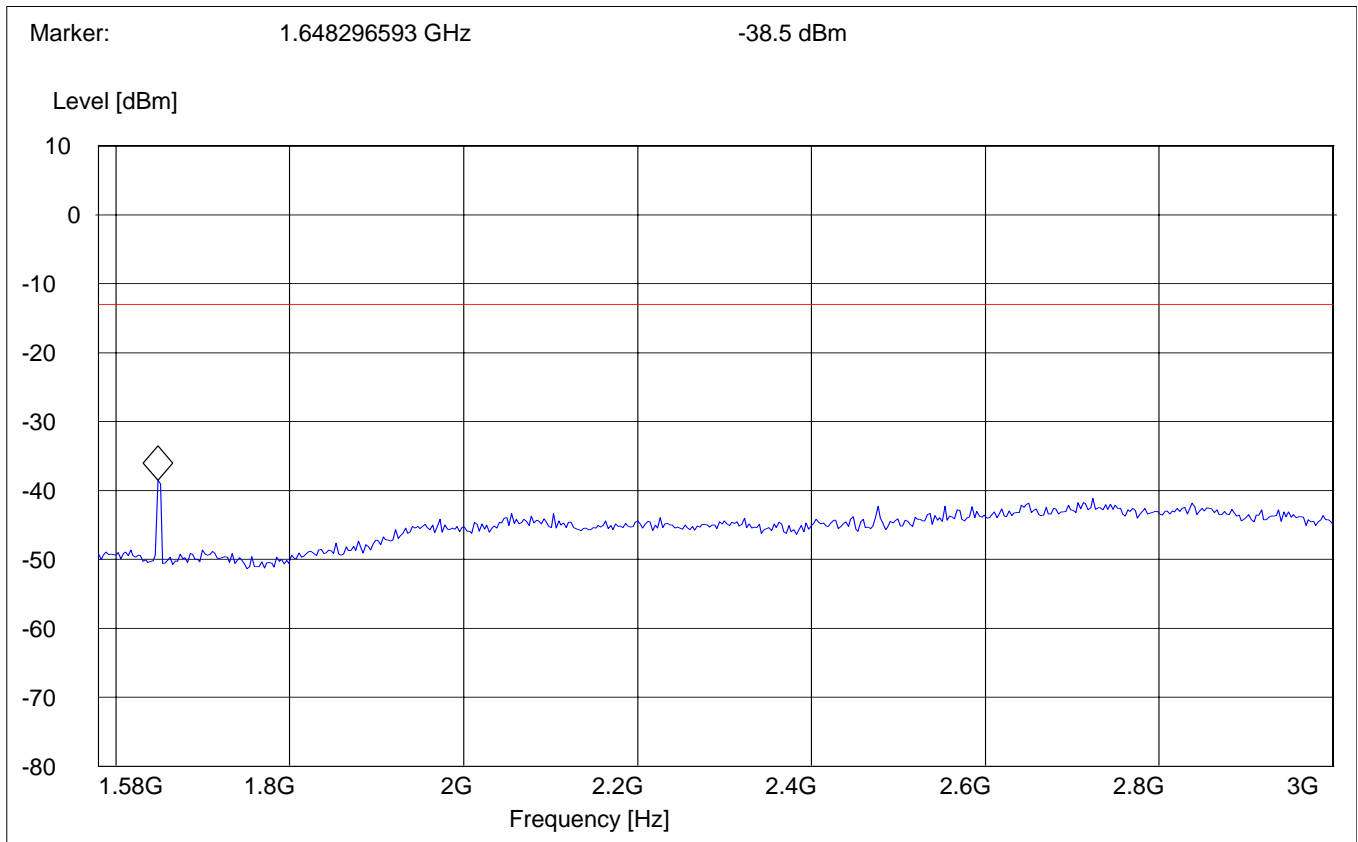


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 825.25MHz: 1.58GHz – 3GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 1.58-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
1.58GHz	3GHz	Max Peak	Coupled	1 MHz

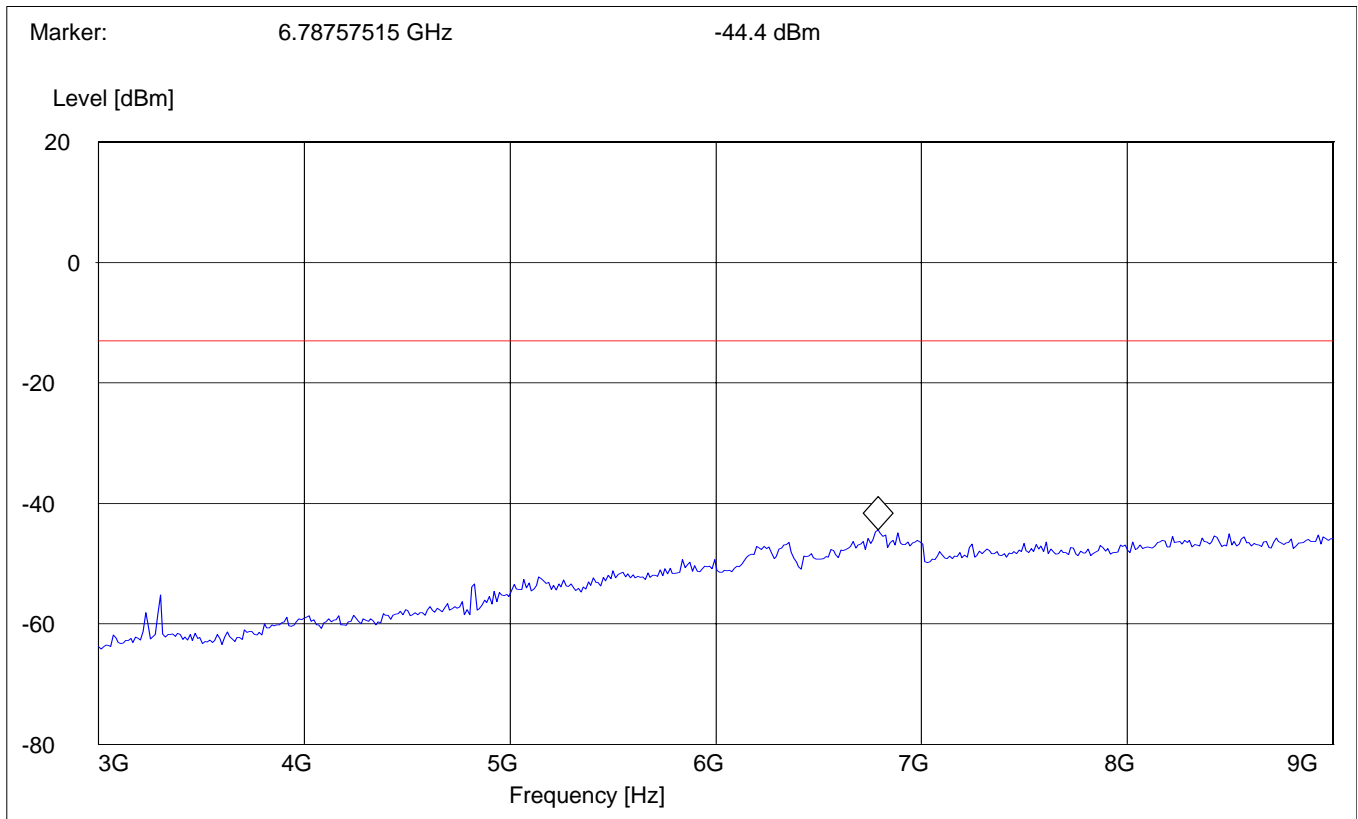


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 825.25MHz: 3GHz – 9GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 3-9G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
3GHz	9GHz	Max Peak	Coupled	1 MHz

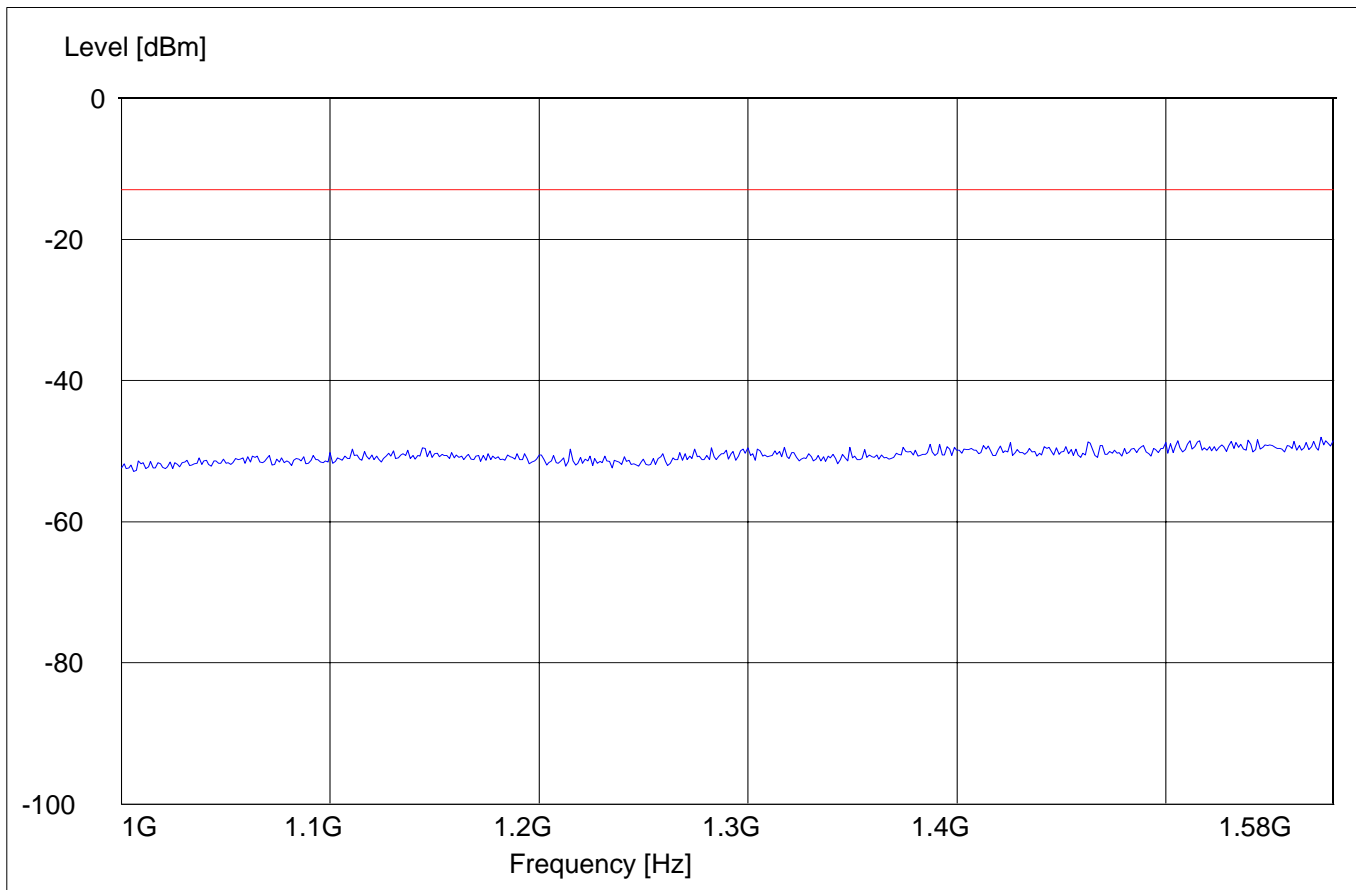


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 836.5MHz: 1GHz – 1.58GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 1-1.58G"**

<i>Start</i>	<i>Stop</i>	<i>Detector</i>	<i>Meas.</i>	<i>RBW/VBW</i>
<i>Frequency</i>	<i>Frequency</i>	<i>Time</i>		
1GHz	1.58GHz	Max Peak	Coupled	1 MHz

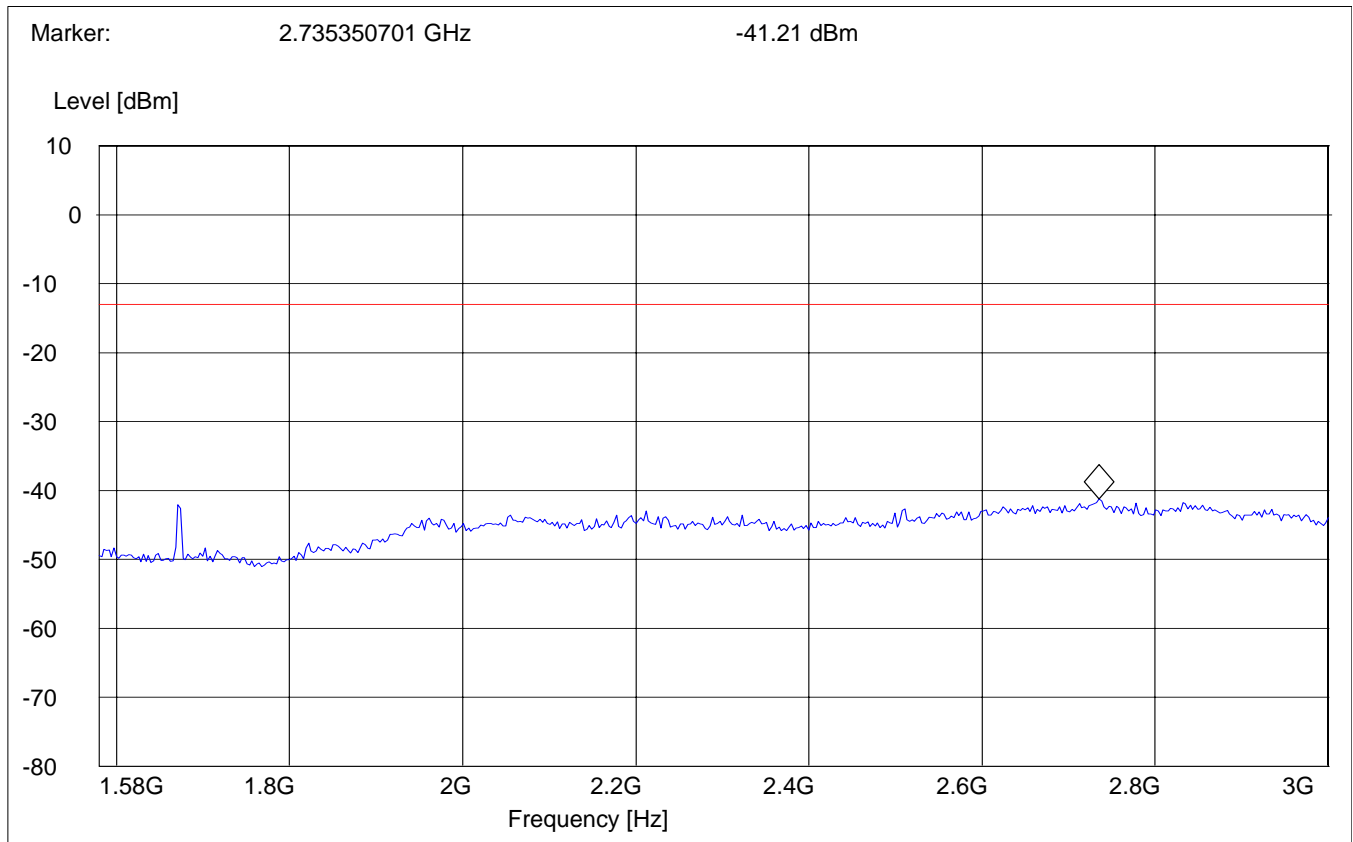


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 836.5MHz: 1.58GHz – 3GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 1.58-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
1.58GHz	3GHz	Max Peak	Coupled	1 MHz

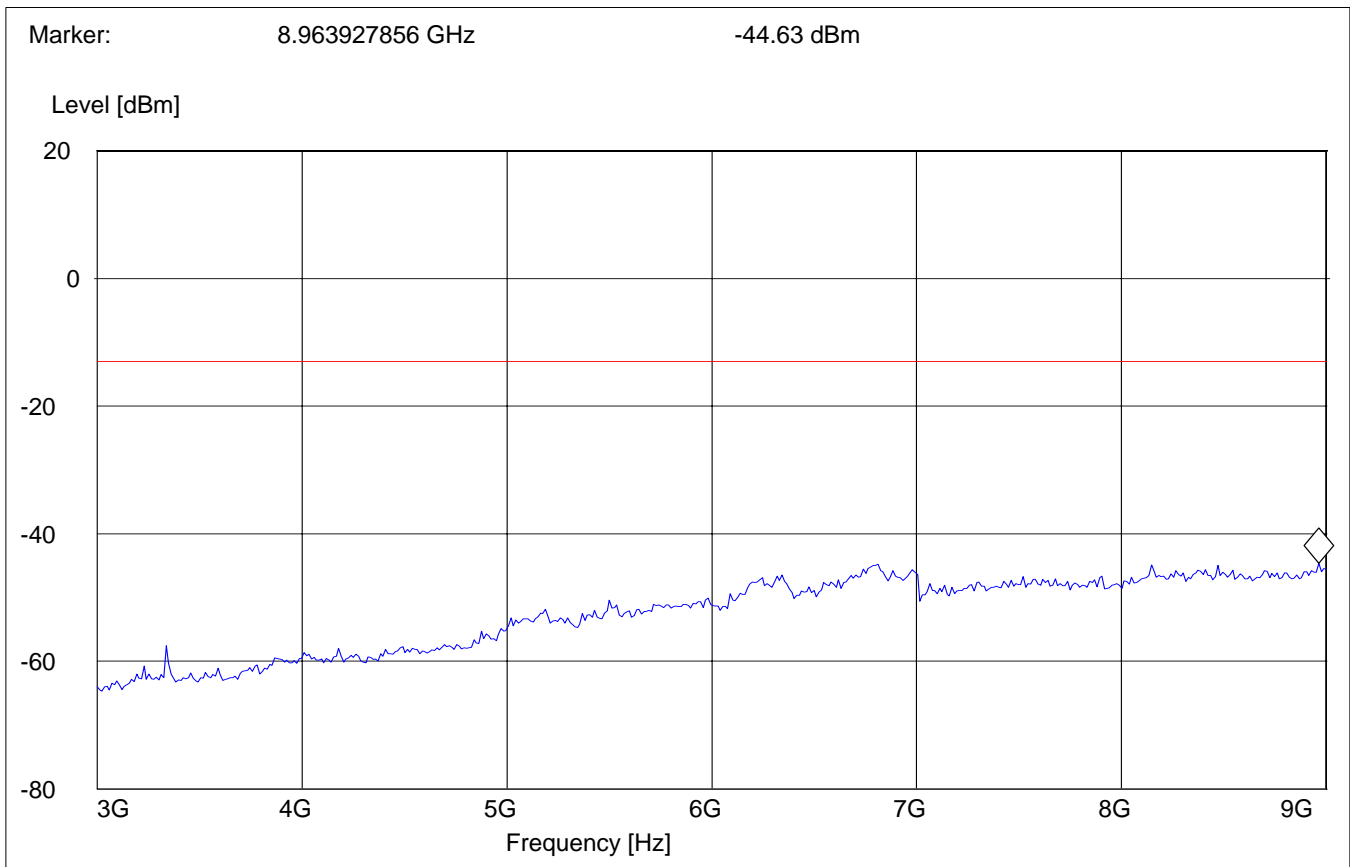


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 836.5MHz: 3GHz – 9GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 3-9G"**

Start	Stop	Detector	Meas.	RBW/VBW
Frequency	Frequency		Time	
3GHz	9GHz	Max Peak	Coupled	1 MHz



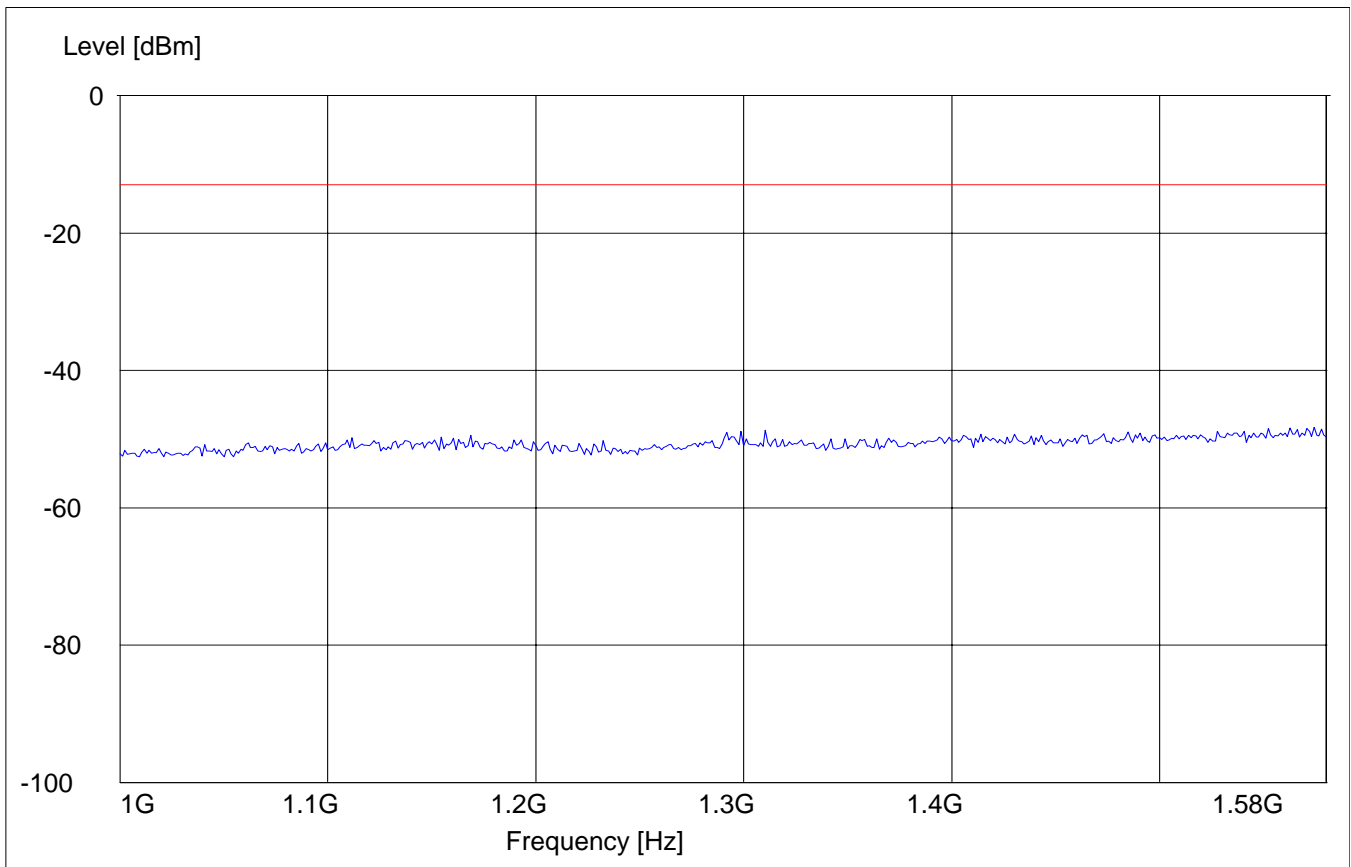


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 847.75MHz: 1GHz – 1.58GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 1-1.58G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
1GHz	1.58GHz	Max Peak	Coupled	1 MHz

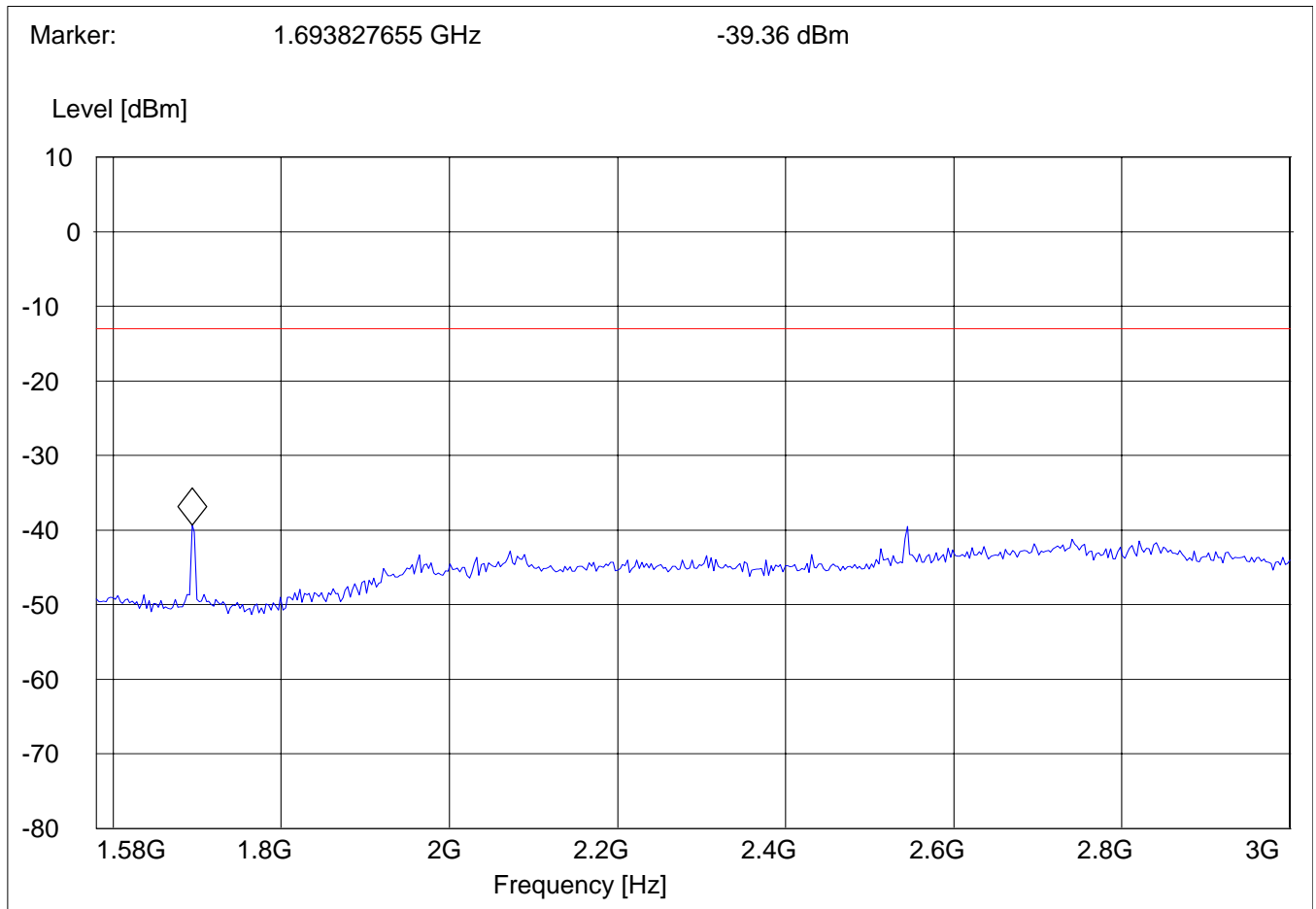


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 847.75MHz: 1.58GHz – 3GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 1.58-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
1.58GHz	3GHz	Max Peak	Coupled	1 MHz

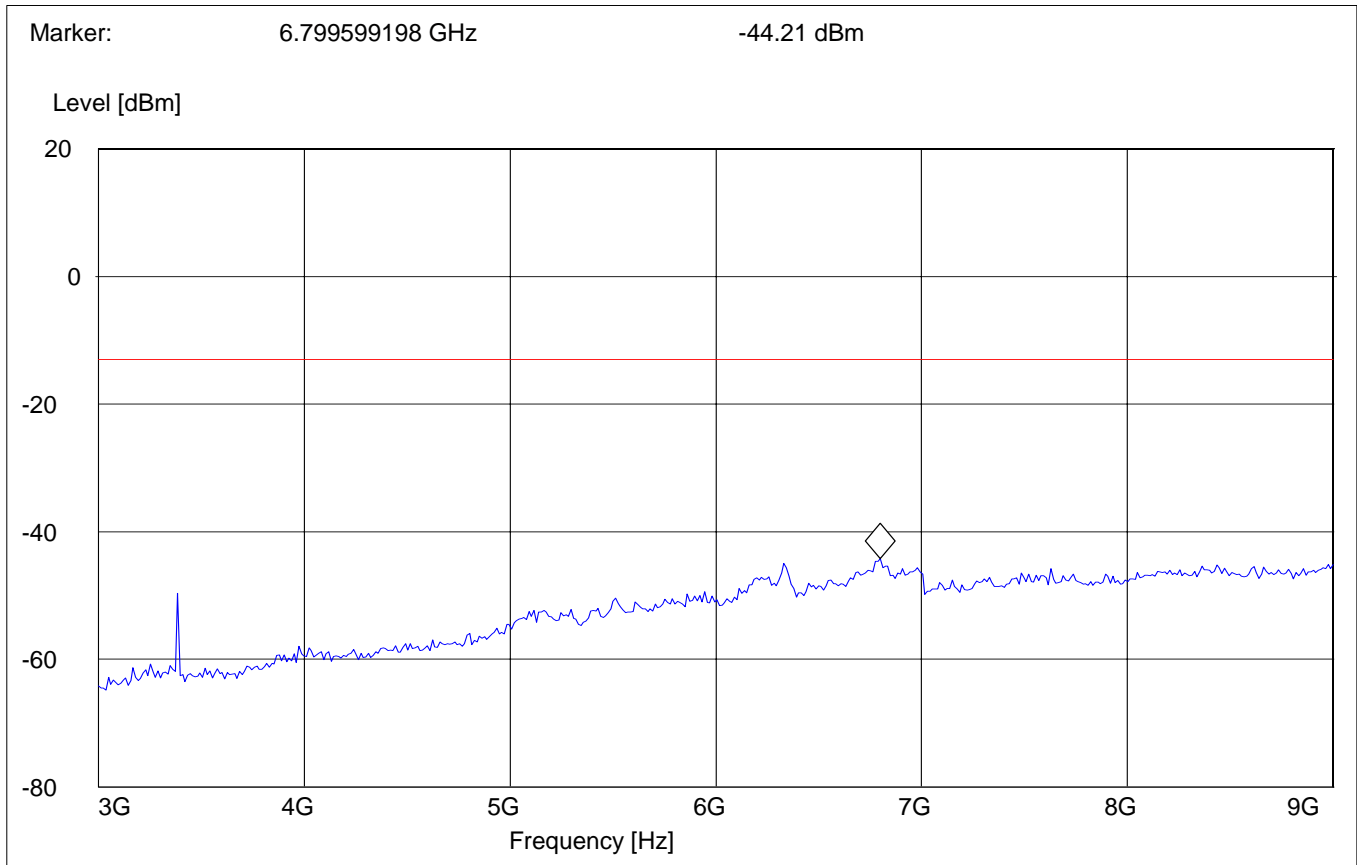


**RADIATED SPURIOUS EMISSIONS (GSM-850)****Tx @ 847.75MHz: 3GHz – 9GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 22 Spur 3-9G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
3GHz	9GHz	Max Peak	Coupled	1 MHz



**RESULTS OF RADIATED TESTS PCS-1900:  
RADIATED SPURIOUS EMISSIONS**

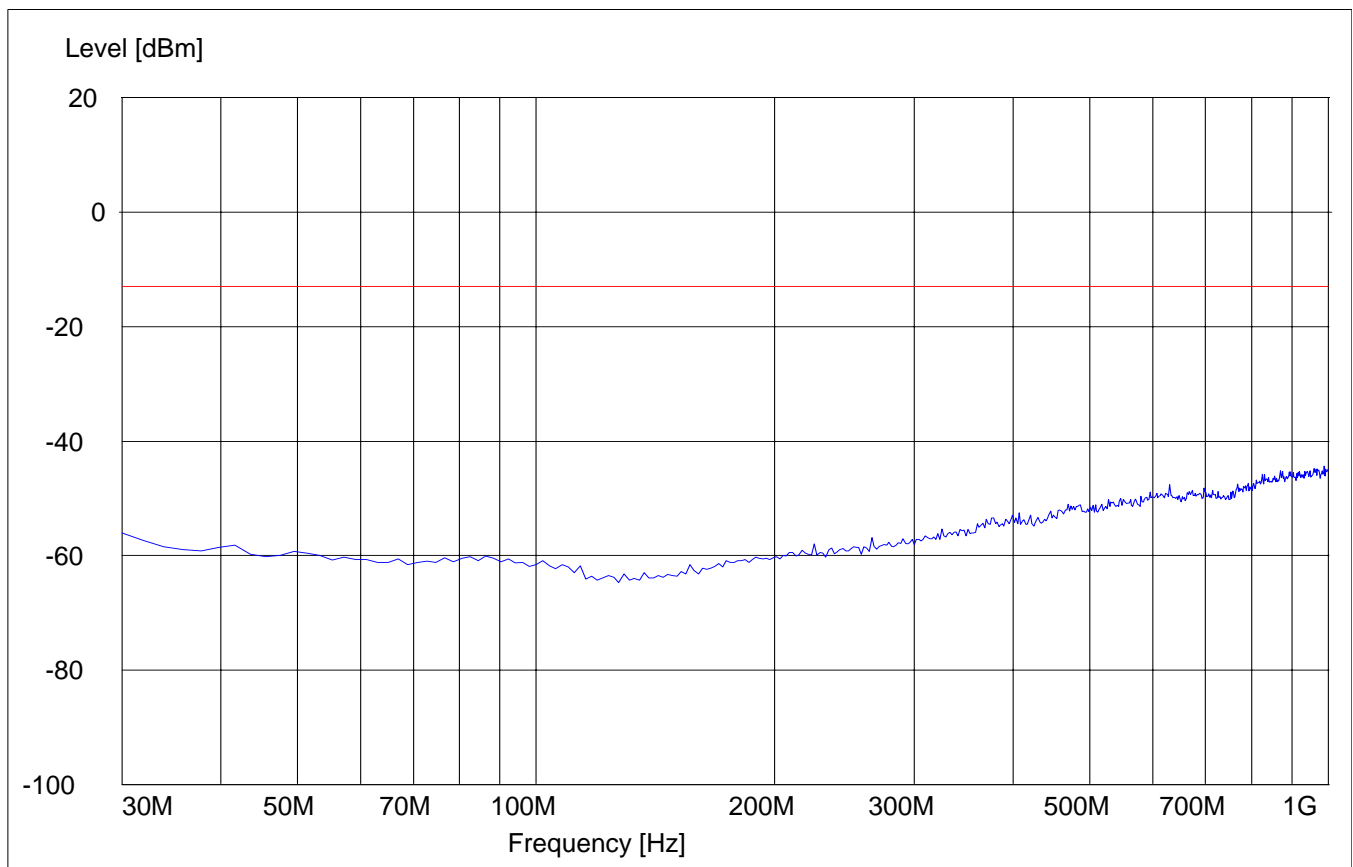
**Tx @ 1851.25MHz: 30MHz - 1GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 24 Spur 30M-1G"**

Start	Stop	Detector	Meas.	RBW/VBW
Frequency	Frequency		Time	
30MHz	1GHz	Max Peak	Coupled	1 MHz

**Note: This plot is valid for low, mid & high channels (worst-case plot)**



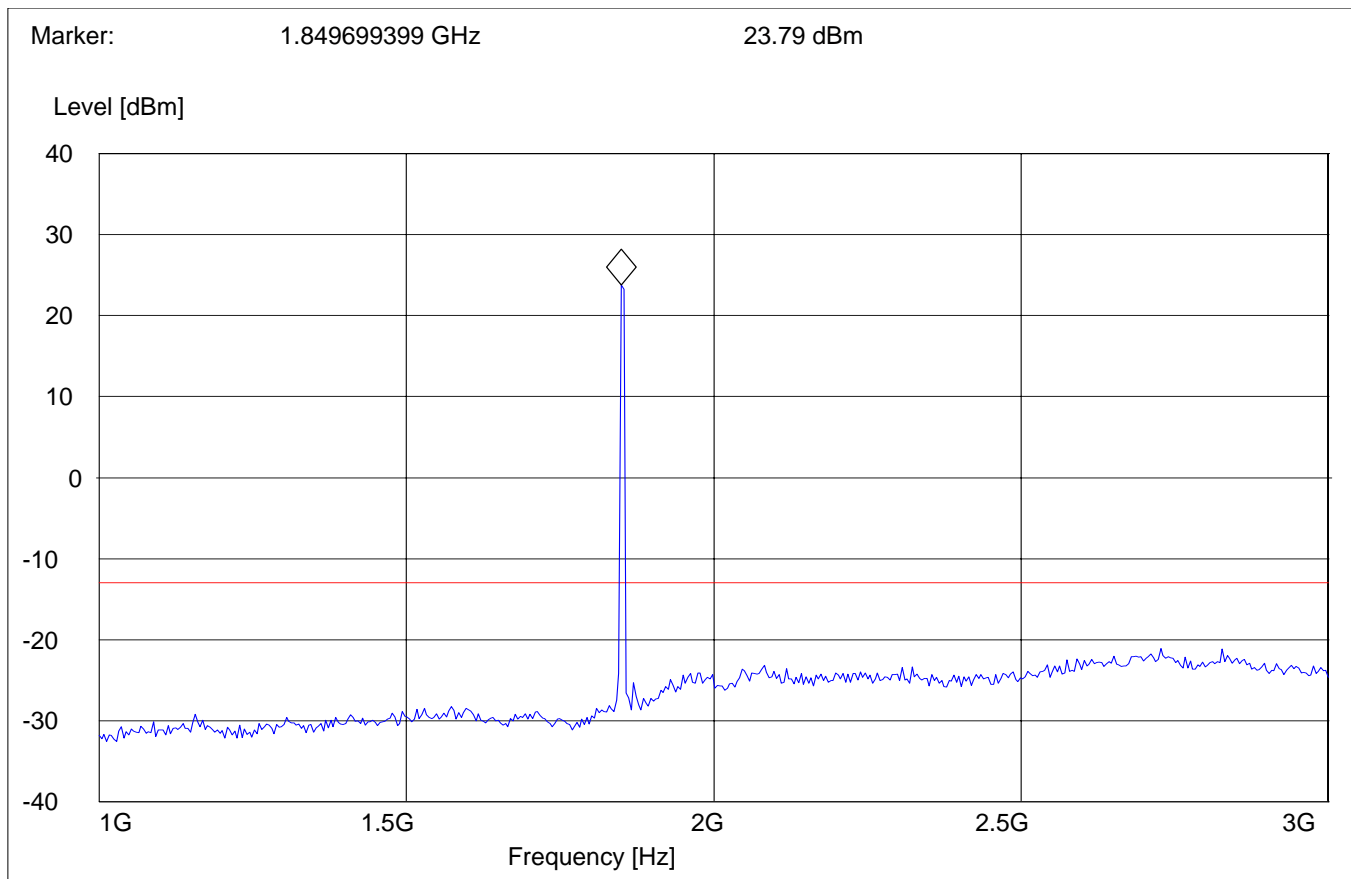
**RADIATED SPURIOUS EMISSIONS****Tx @ 1851.25MHz: 1GHz – 3GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC Spuri 1-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
1GHz	3GHz	Max Peak	Coupled	1 MHz

Note: The peak above the limit line is the carrier freq.

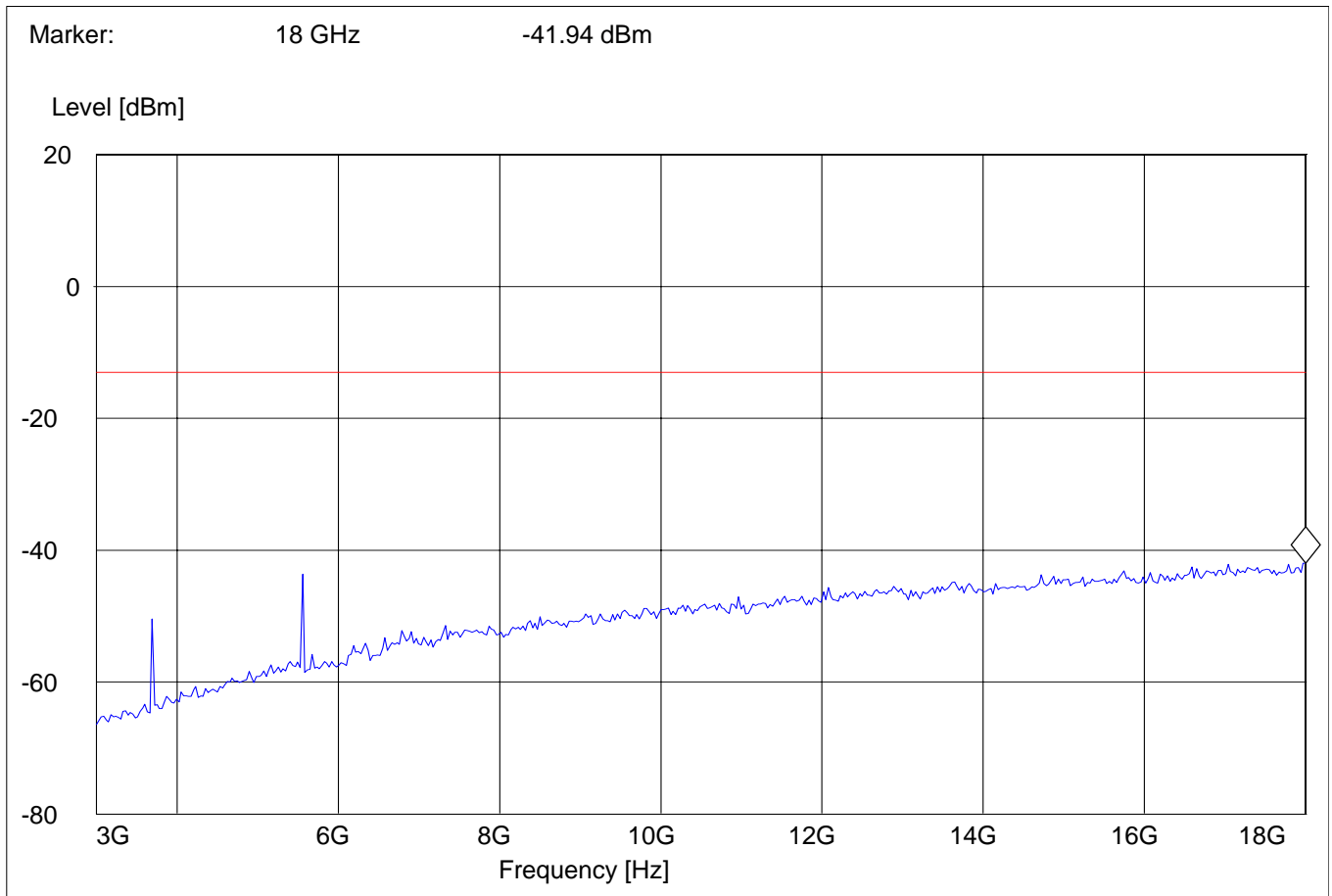


**RADIATED SPURIOUS EMISSIONS****Tx @ 1851.25MHz: 3GHz – 18GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC Spuri 3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
3GHz	18GHz	Max Peak	Coupled	1 MHz



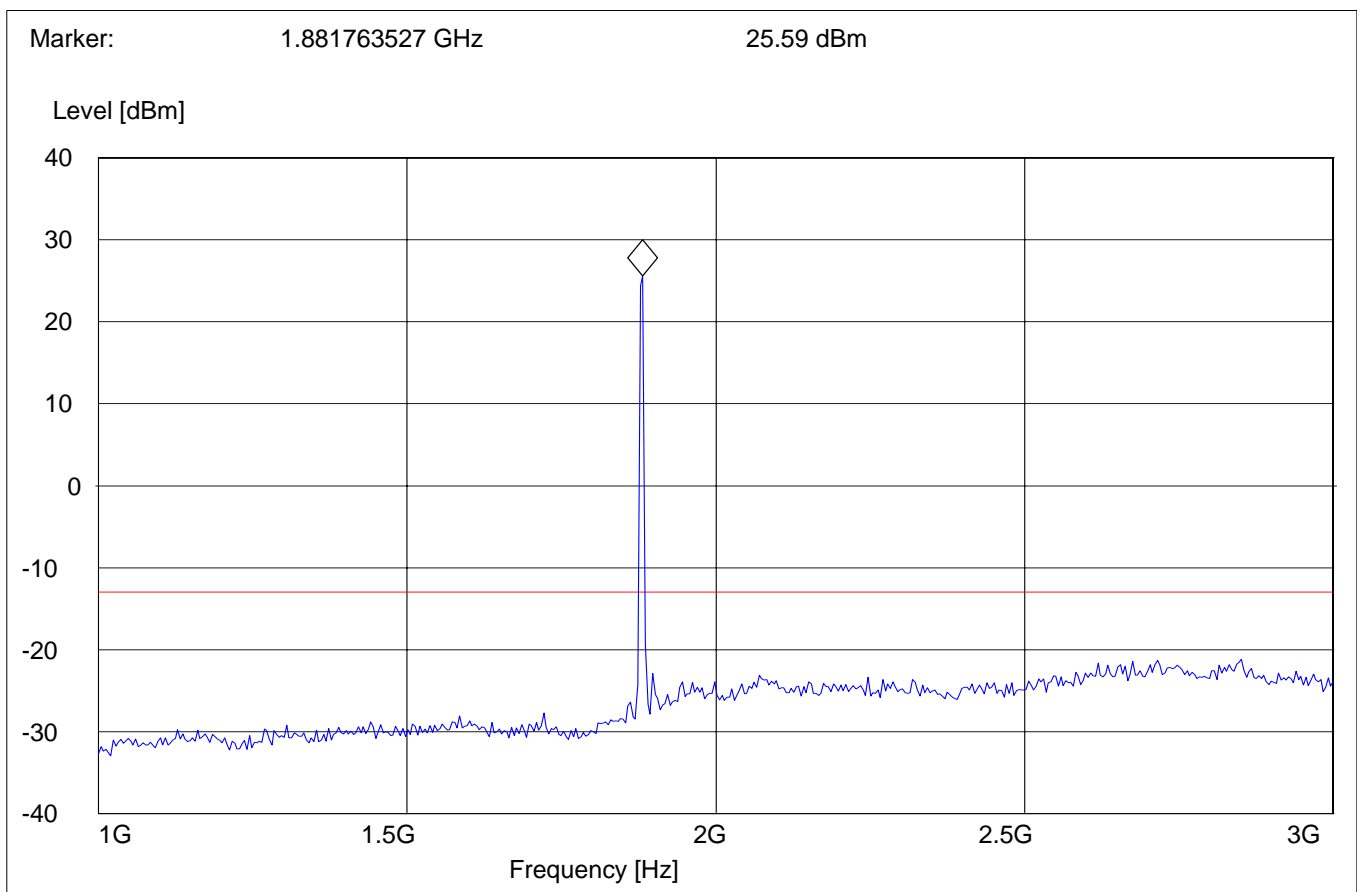
**RADIATED SPURIOUS EMISSIONS****Tx @ 1880MHz: 1GHz – 3GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC Spuri 1-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
1GHz	3GHz	Max Peak	Coupled	1 MHz

Note: The peak above the limit line is the carrier freq.



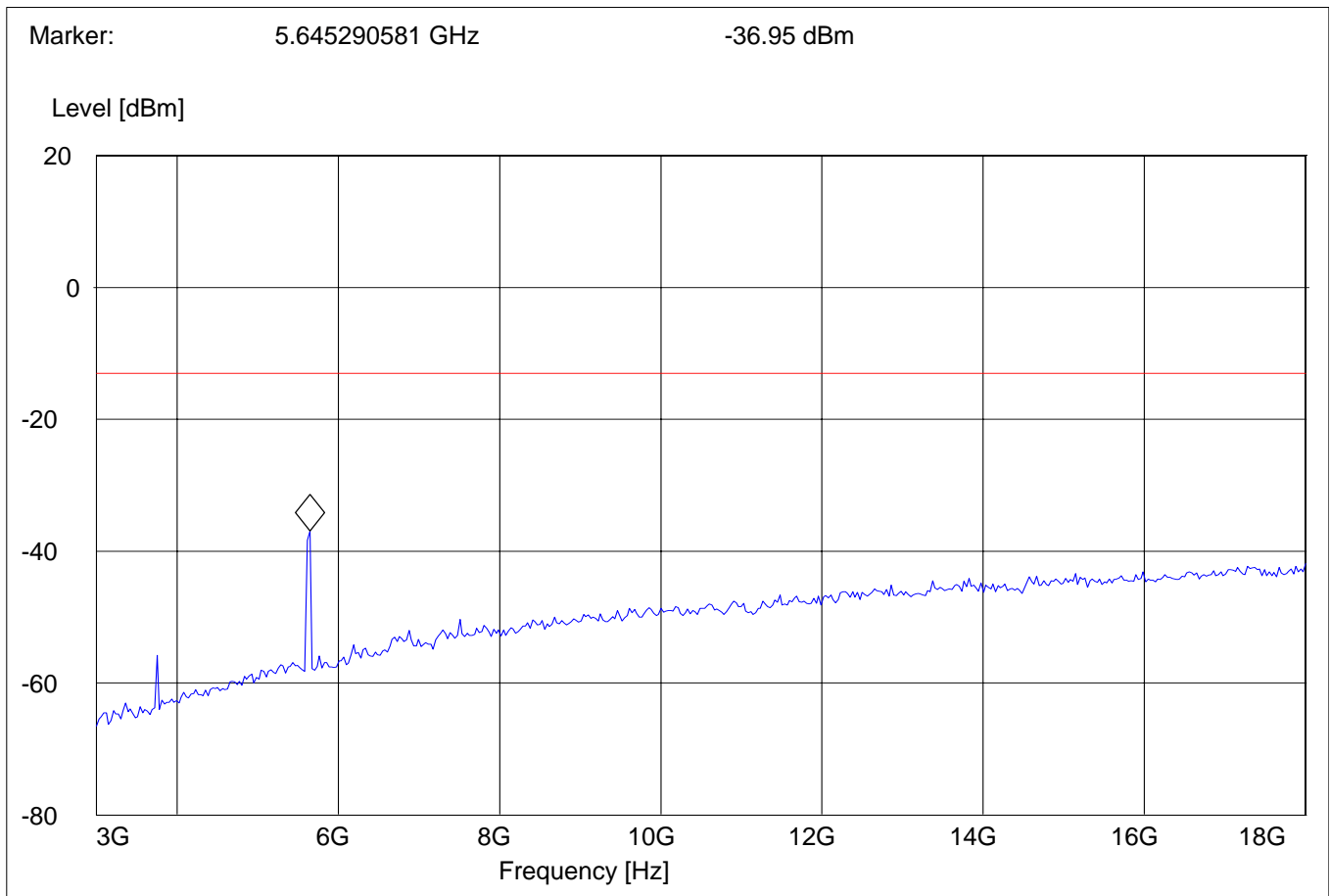
**RADIATED SPURIOUS EMISSIONS**

**Tx @ 1880MHz: 3GHz – 18GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC Spuri 3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
3GHz	18GHz	Max Peak	Coupled	1 MHz





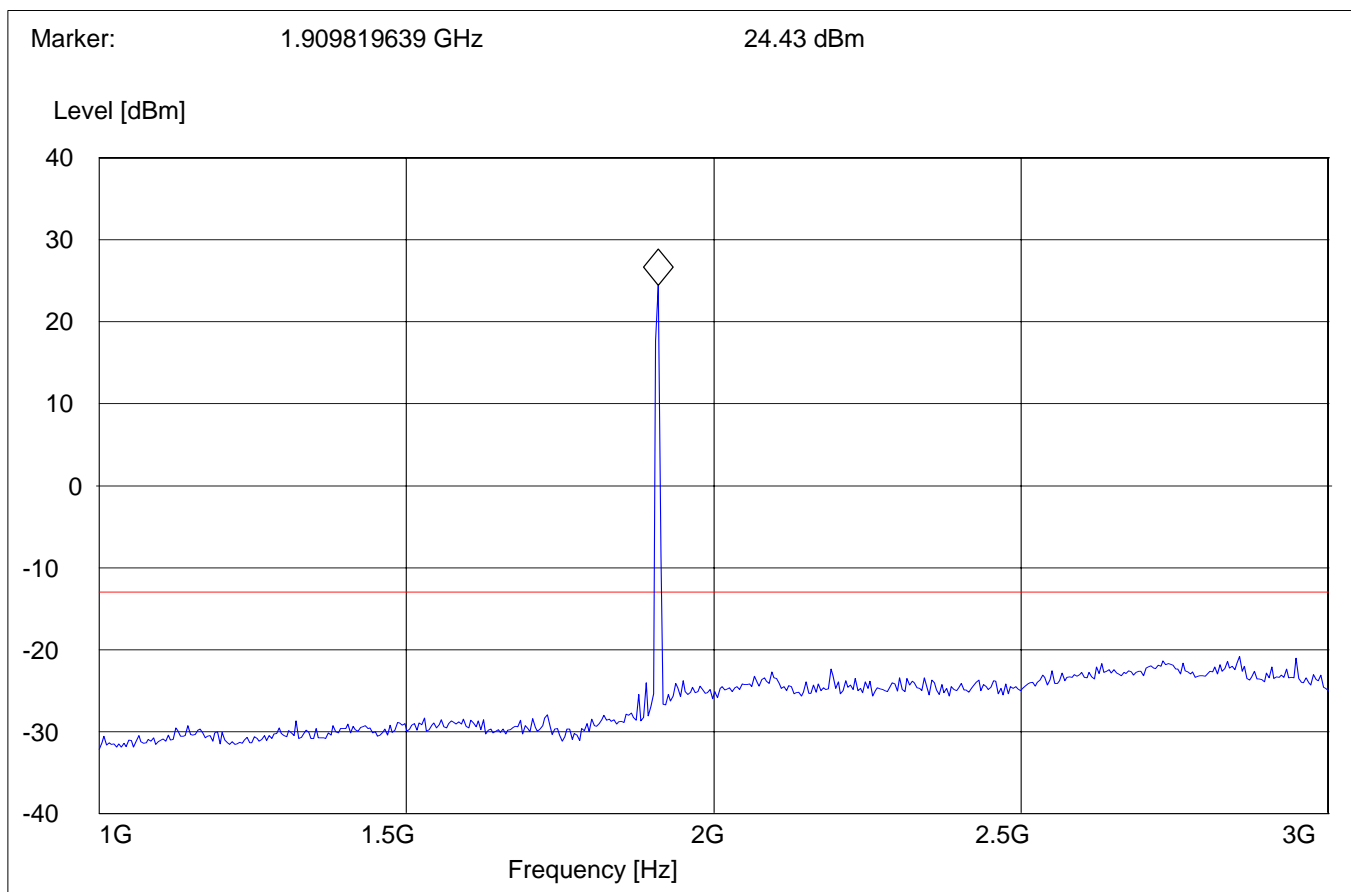
**RADIATED SPURIOUS EMISSIONS****Tx @ 1908.75MHz: 1GHz – 3GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC Spuri 1-3G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
1GHz	3GHz	Max Peak	Coupled	1 MHz

Note: The peak above the limit line is the carrier freq.

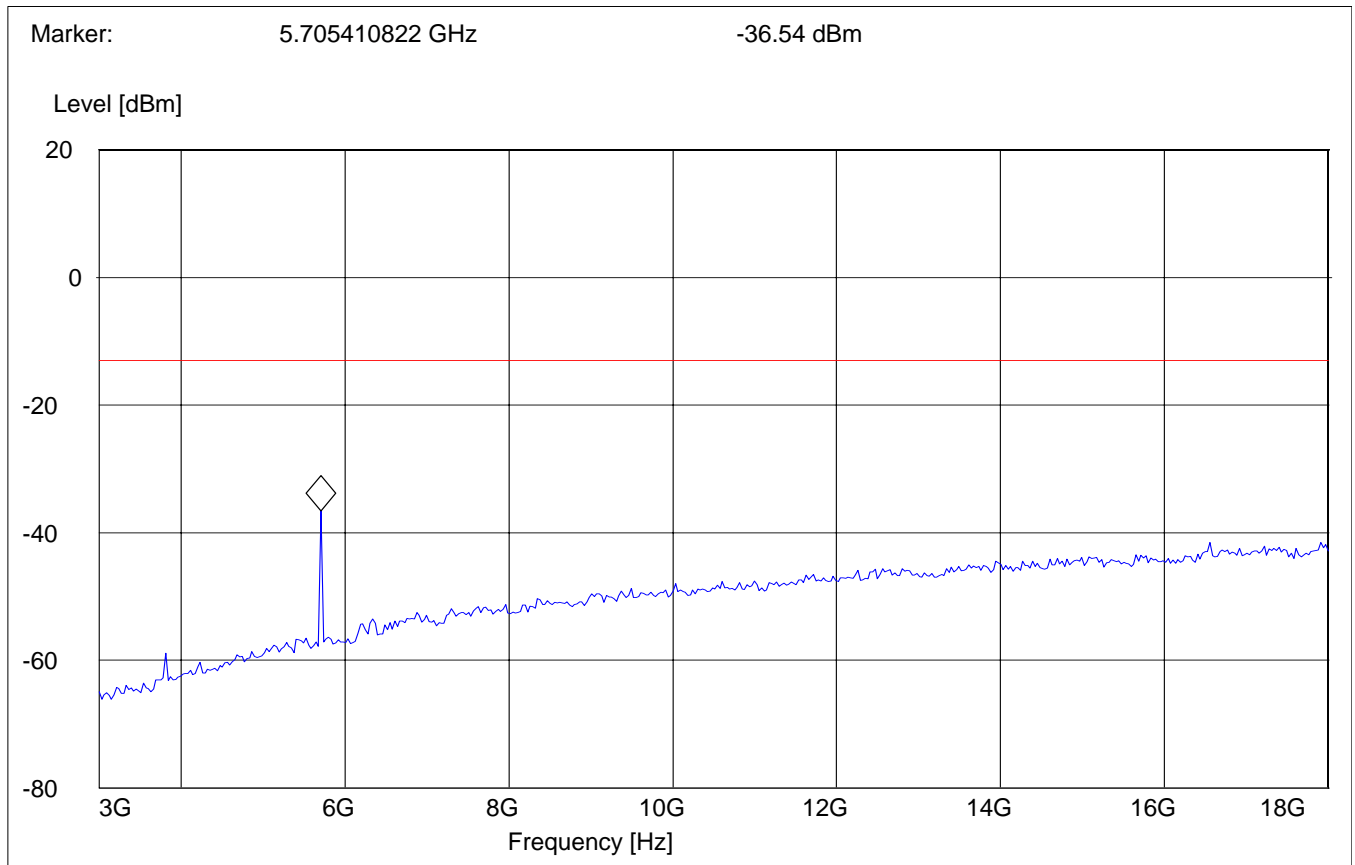


**RADIATED SPURIOUS EMISSIONS****Tx @ 1908.75MHz: 3GHz – 18GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC Spuri 3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
3GHz	18GHz	Max Peak	Coupled	1 MHz

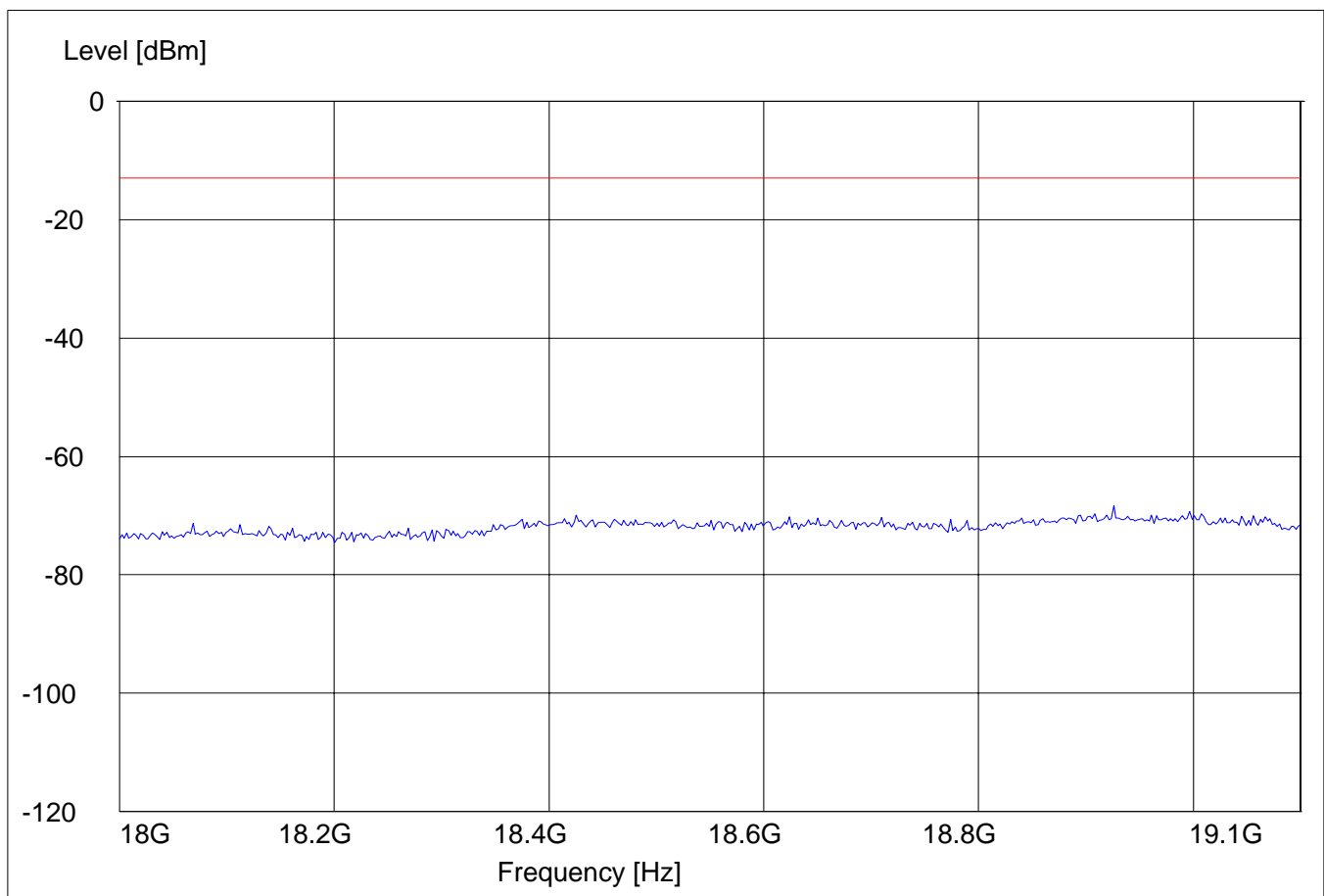


**RADIATED SPURIOUS EMISSIONS****18GHz – 19.1GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 24 spuri 18-19.1G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
18GHz	19.1GHz	Max Peak	Coupled	1 MHz

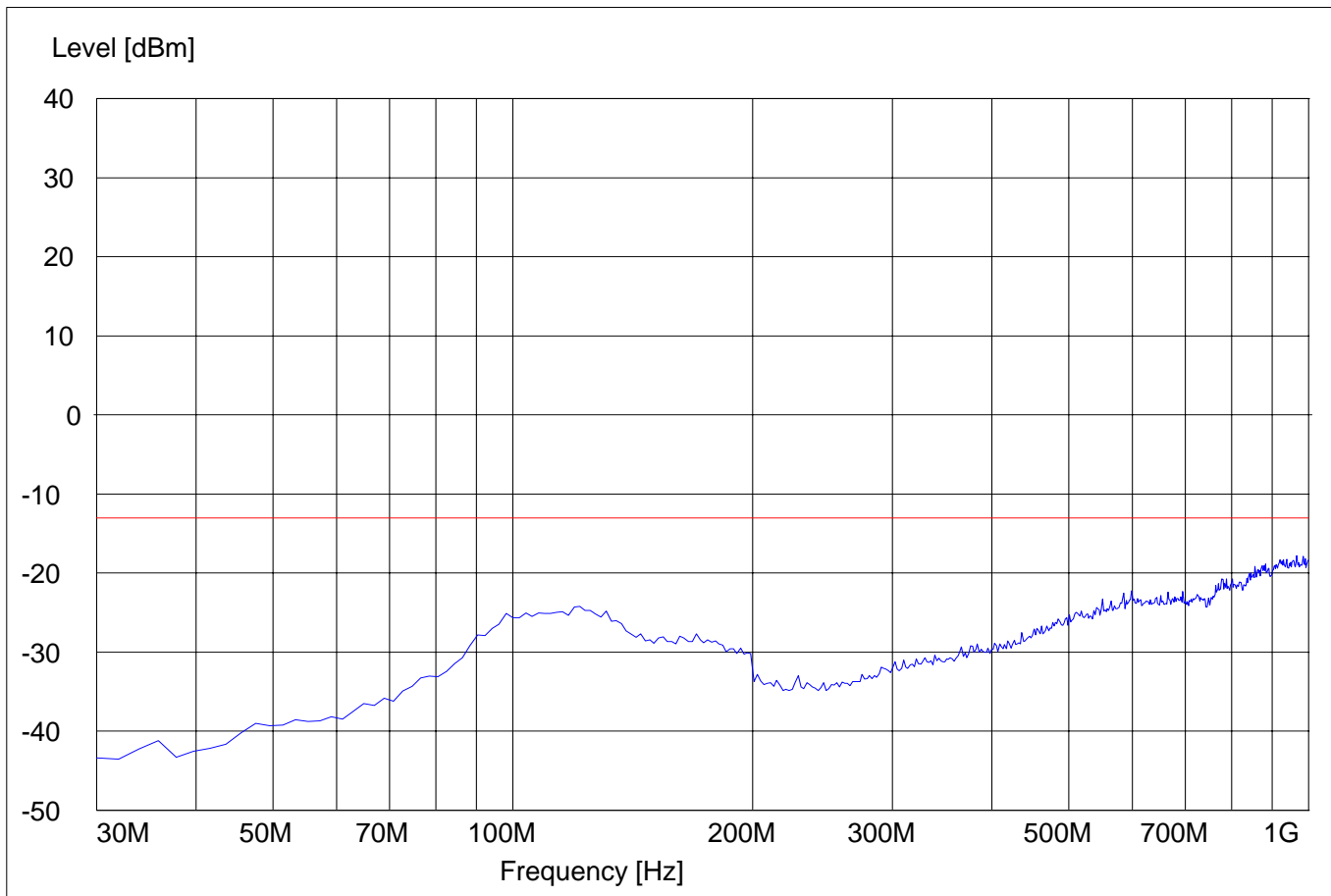
**Note: This plot is valid for low, mid & high channels (worst-case plot)**

**RADIATED SPURIOUS EMISSIONS (IDLE MODE)****EUT in Idle Mode: 30MHz – 1GHz**

Spurious emission limit –13dBm

**SWEEP TABLE: "FCC 24 Spur 30M-1G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
30MHz	1GHz	Max Peak	Coupled	1 MHz

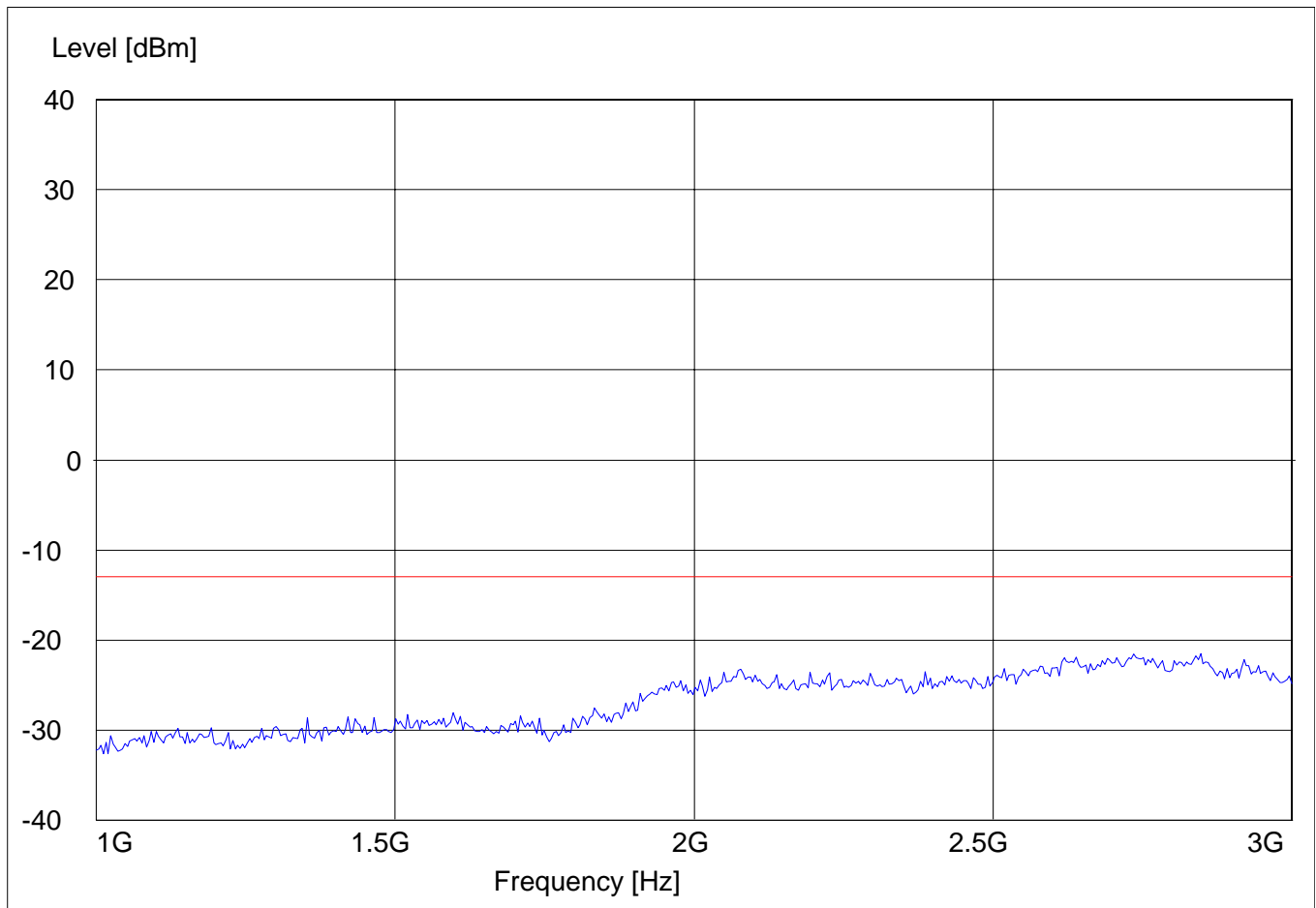


**RADIATED SPURIOUS EMISSIONS****EUT in Idle Mode: 1GHz – 3GHz**

Spurious emission limit –13dBm

**SWEEP TABLE: "FCC Spuri 1-3G"**

<i>Start</i>	<i>Stop</i>	<i>Detector</i>	<i>Meas.</i>	<i>RBW/VBW</i>
<i>Frequency</i>	<i>Frequency</i>		<i>Time</i>	
1GHz	3GHz	Max Peak	Coupled	1 MHz

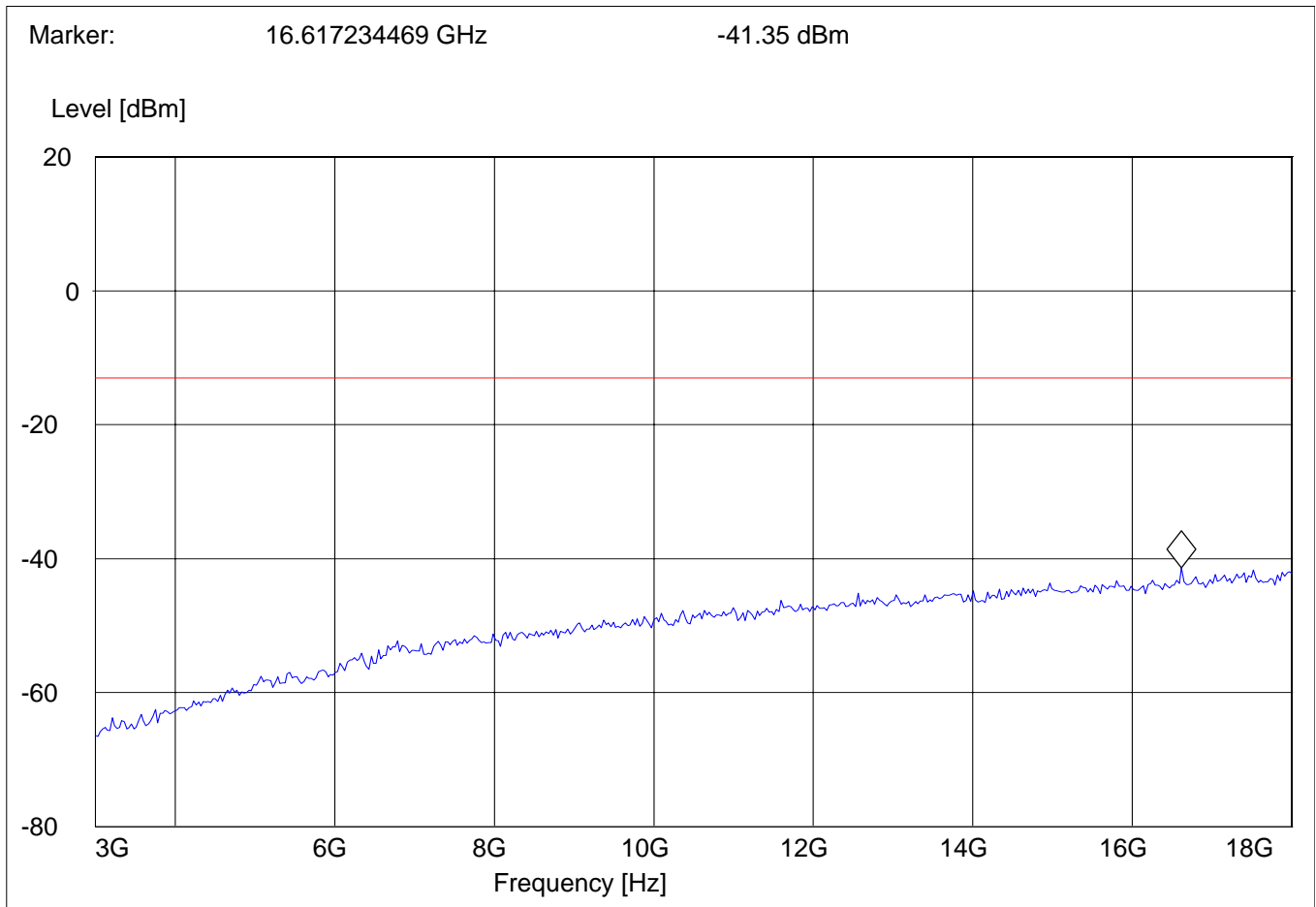


**RADIATED SPURIOUS EMISSIONS****EUT in Idle Mode: 3GHz – 18GHz**

Spurious emission limit -13dBm

**SWEEP TABLE: "FCC 24 spuri 3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
3GHz	18GHz	Max Peak	Coupled	1 MHz

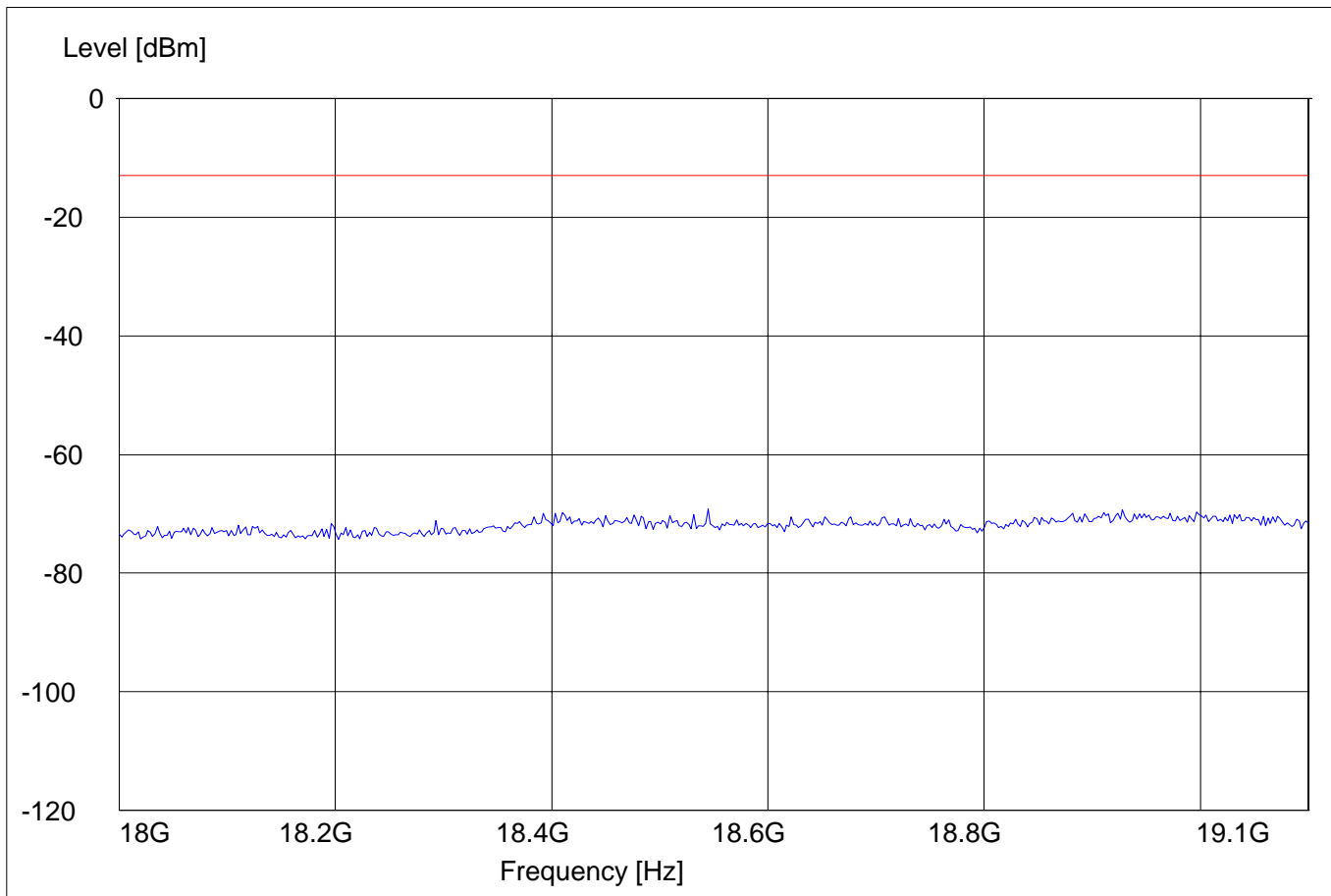


**RADIATED SPURIOUS EMISSIONS****EUT in Idle Mode: 18GHz – 19.1GHz**

Spurious emission limit –13dBm

**SWEEP TABLE: "FCC 24 spuri 18-19.1G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
18GHz	19.1GHz	Max Peak	Coupled	1 MHz



**RECEIVER RADIATED EMISSIONS****§ 2.1053 / RSS-133****NOTE:**

1. The radiated 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 3GHz and 26.5GHz very short cable connections to the antenna was used to minimize the noise level.
2. Receiver radiated emissions were done on both 850/1900 bands, but only worst-case plots are submitted in the test reports.

**Limits****SUBCLAUSE § 15.209**

Frequency (MHz)	Field strength ( $\mu\text{V}/\text{m}$ )	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

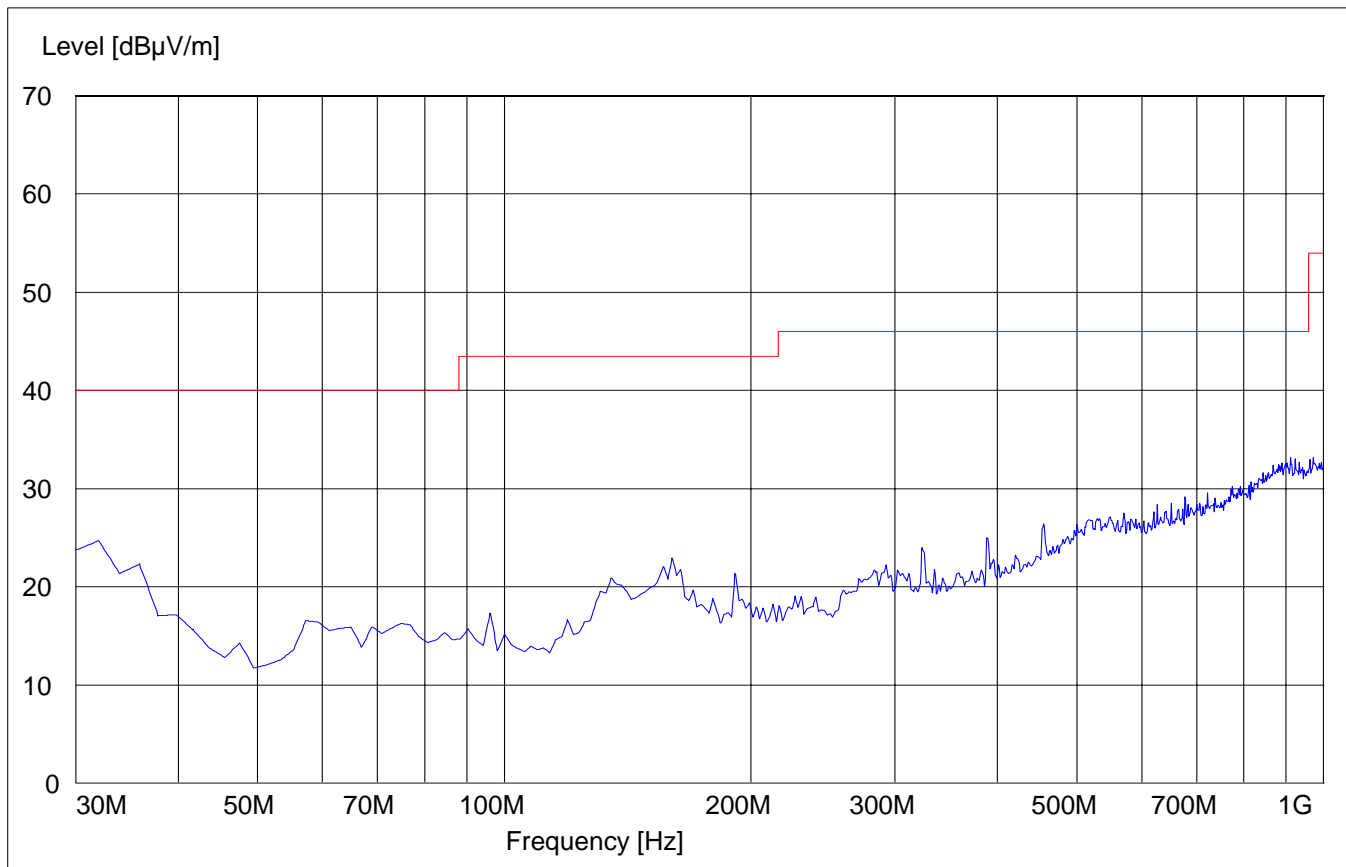


**RECEIVER RADIATED EMISSIONS****EUT in Idle Mode: 30MHz – 1GHz**

Antenna: vertical

SWEEP TABLE: "FCC 15 Spur 30M-1G"

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
30MHz	1GHz	Max Peak	Coupled	100KHz

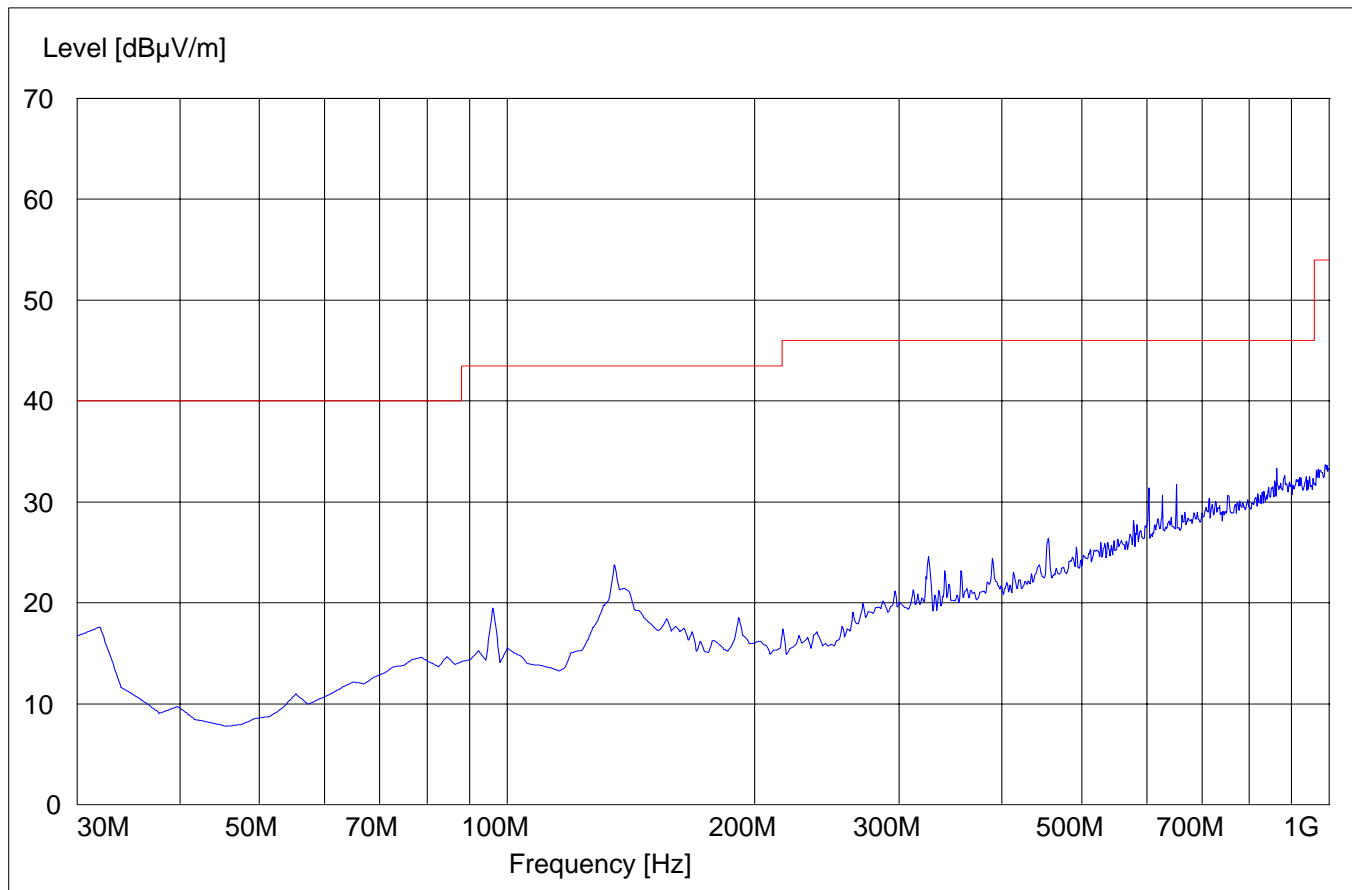


**RECEIVER RADIATED EMISSIONS****EUT in Idle Mode: 30MHz – 1GHz**

Antenna: horizontal

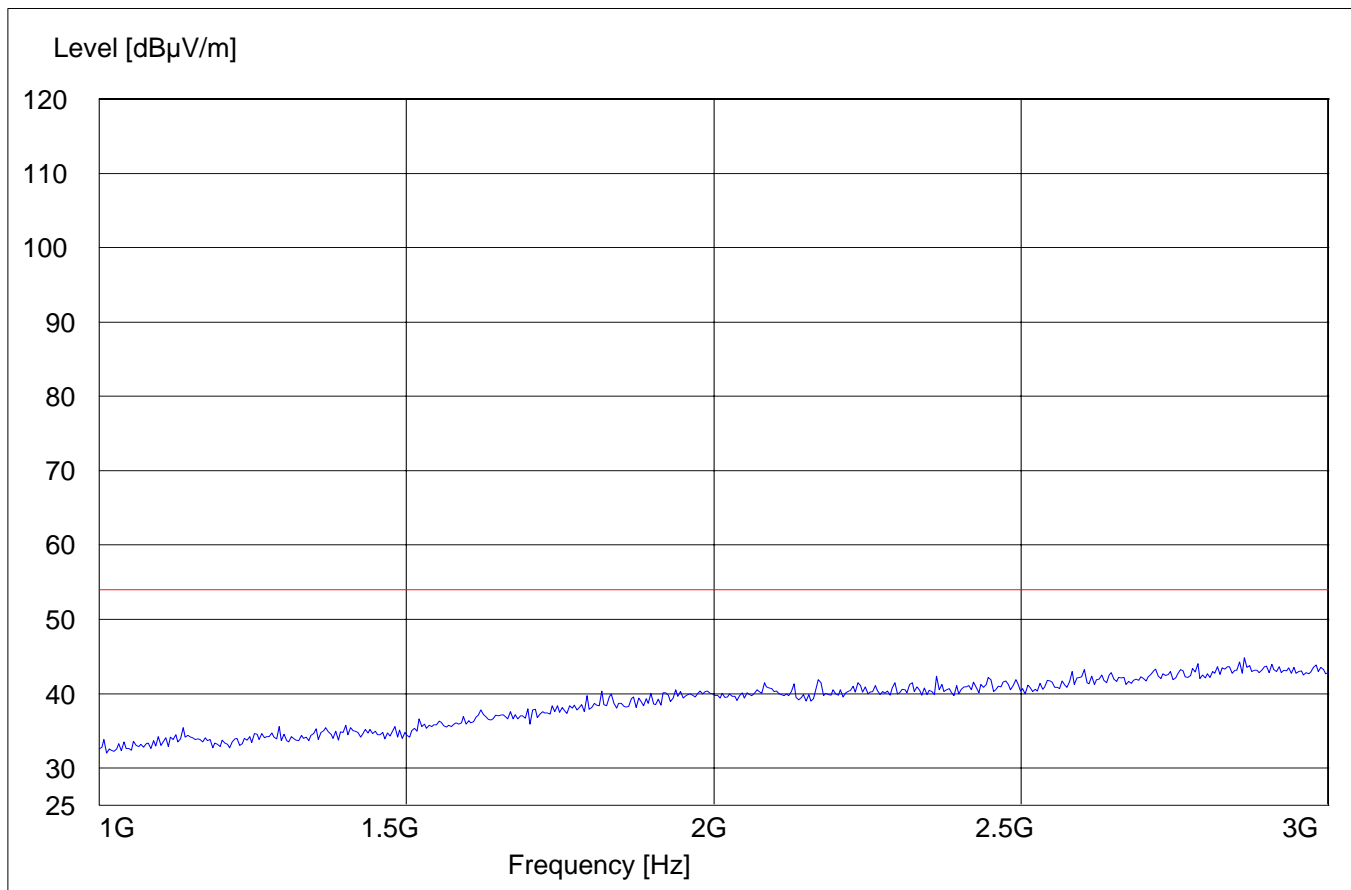
SWEEP TABLE: "FCC 15 Spur 30M-1G"

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
30MHz	1GHz	Max Peak	Coupled	100KHz



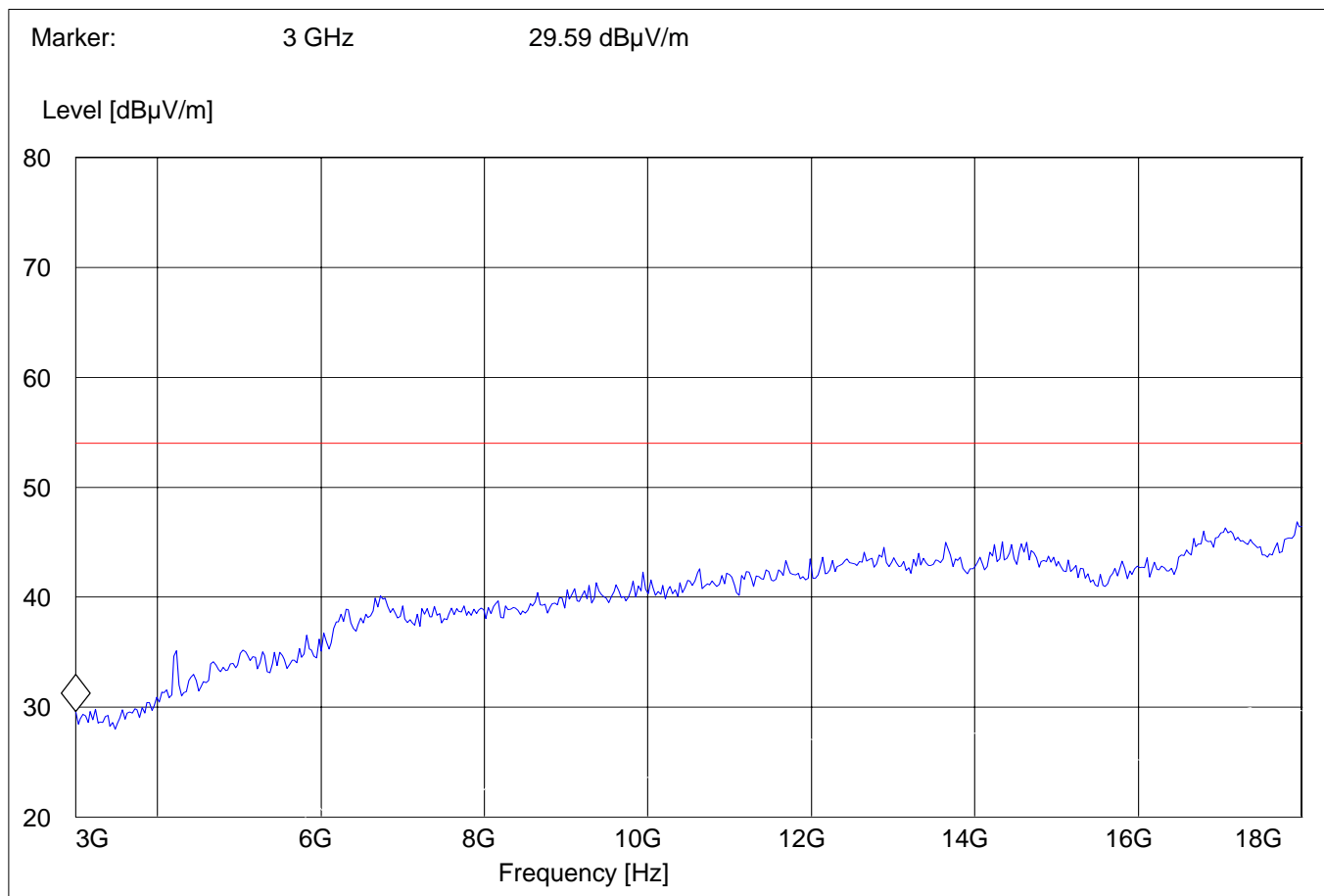
**RECEIVER RADIATED EMISSIONS**  
**EUT in Idle Mode: 1GHz – 3GHz****SWEEP TABLE: "FCC Spuri 1-3G"**

<i>Start</i>	<i>Stop</i>	<i>Detector</i>	<i>Meas.</i>	<i>RBW/VBW</i>
<i>Frequency</i>	<i>Frequency</i>		<i>Time</i>	
1GHz	3GHz	Max Peak	Coupled	1 MHz



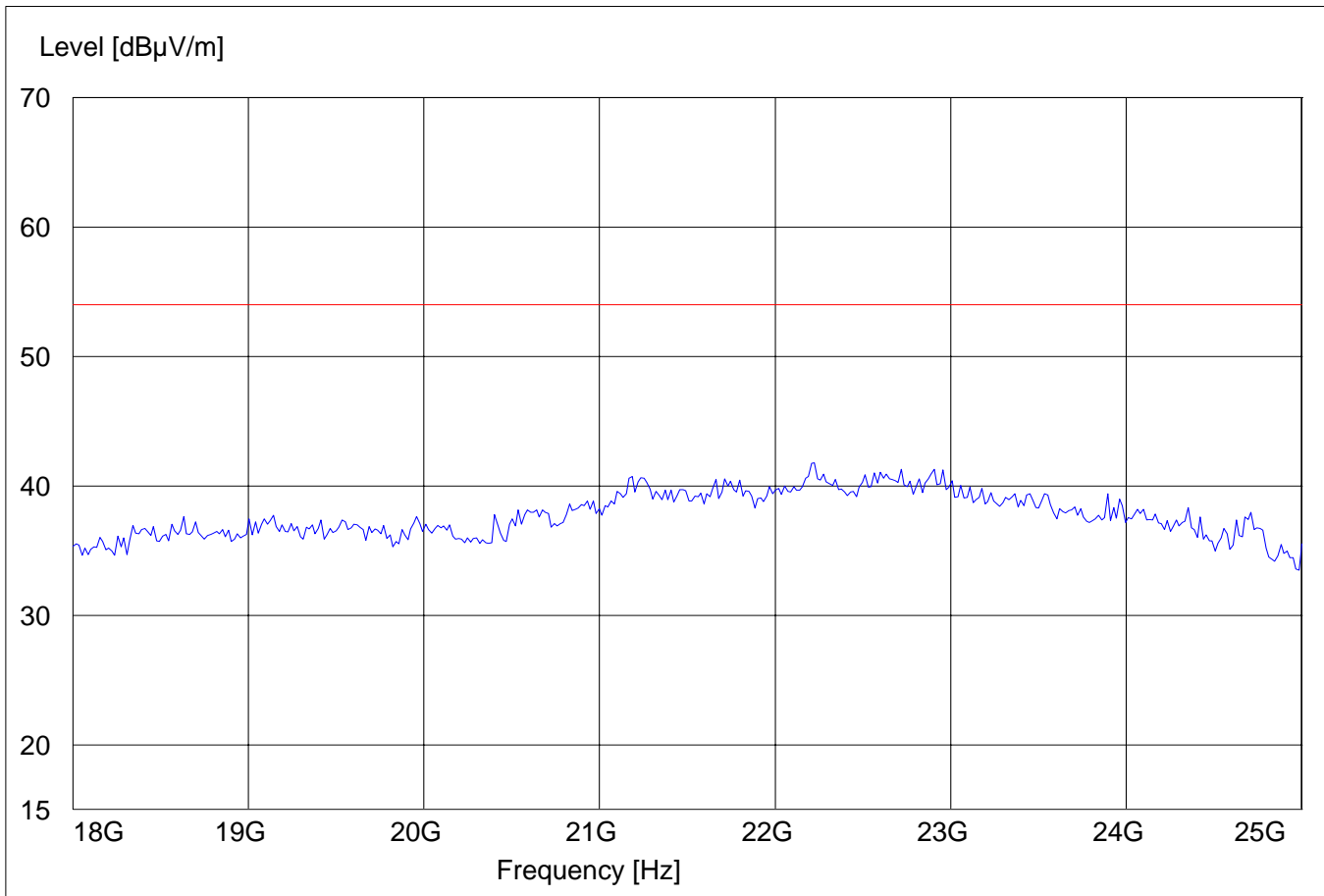
**RECEIVER RADIATED EMISSIONS**  
**EUT in Idle Mode: 3GHz – 18GHz****SWEEP TABLE: "FCC 24 spuri 3-18G"**

Start Frequency	Stop Frequency	Detector	Meas. Time	RBW/VBW
3GHz	18GHz	Max Peak	Coupled	1 MHz



**RECEIVER RADIATED EMISSIONS**  
**EUT in Idle Mode: 18GHz – 19.1GHz****SWEEP TABLE: "FCC 24 spuri 18-19.1G"**

<i>Start</i>	<i>Stop</i>	<i>Detector</i>	<i>Meas.</i>	<i>RBW/VBW</i>
<i>Frequency</i>	<i>Frequency</i>		<i>Time</i>	
18GHz	19.1GHz	Max Peak	Coupled	1 MHz



**CONDUCTED EMISSIONS**

§ 15.107/207

Measured with AC/DC power adapter plugged in LISN

Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002)

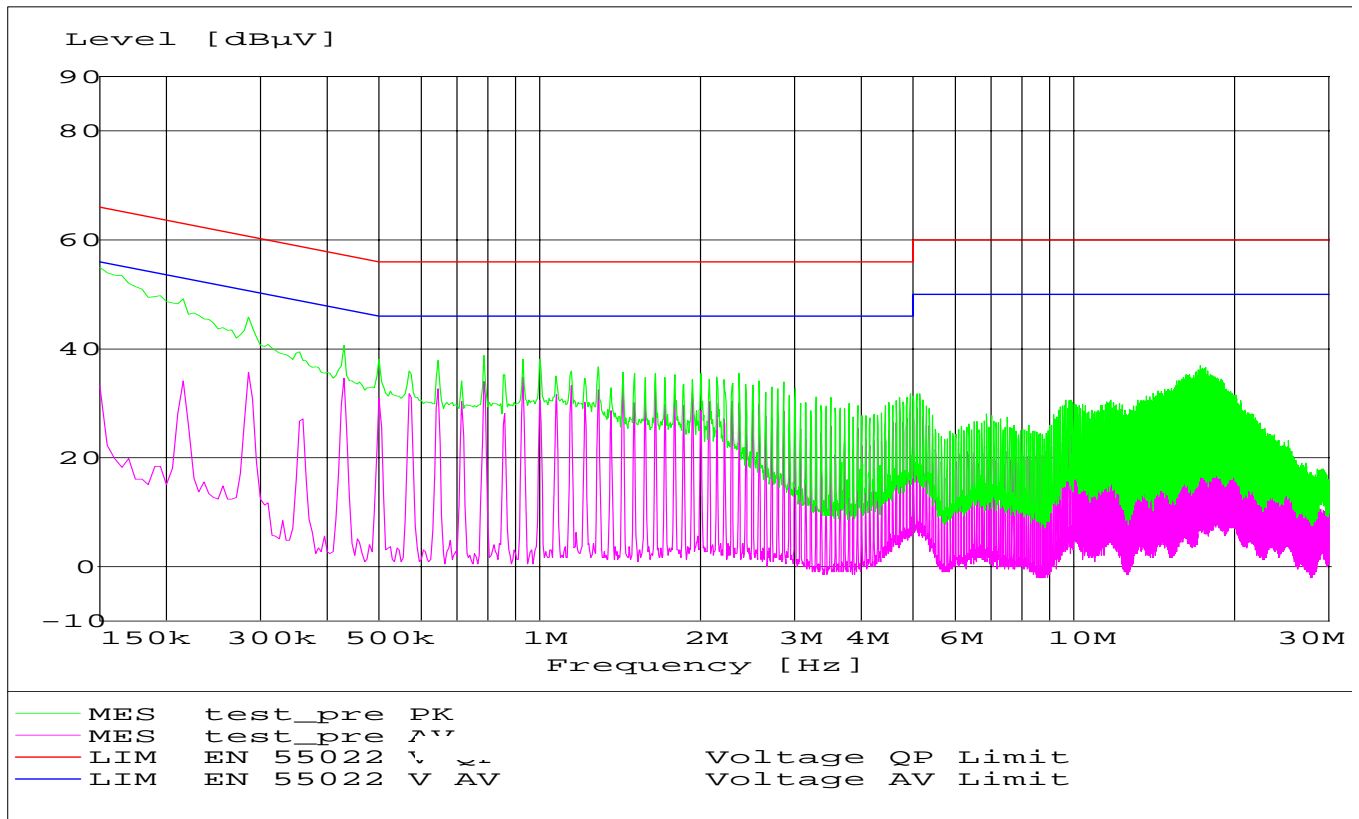
**Limit**

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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

ANALYZER SETTINGS: RBW = 10KHz

VBW = 10KHz



**TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS**

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	826880/010
03	Signal Generator	SMY02	Rohde & Schwarz	836878/011
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02
05	Biconilog Antenna	3141	EMCO	0005-1186
06	Horn Antenna (1-18GHz)	SAS-200/571	AH Systems	325
07	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240
08	Power Splitter	11667B	Hewlett Packard	645348
09	Climatic Chamber	VT4004	Voltsch	G1115
10	High Pass Filter	5HC2700	Trilithic Inc.	9926013
11	High Pass Filter	4HC1600	Trilithic Inc.	9922307
12	Pre-Amplifier	JS4-00102600	Miteq	00616
13	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807
14	Digital Radio Comm. Tester	CMD-55	Rohde & Schwarz	847958/008
15	Universal Radio Comm. Tester	CMU 200	Rohde & Schwarz	832221/06

**BLOCK DIAGRAMS**  
**Radiated Testing**

**ANECHOIC CHAMBER**

